ADDENDUM TO THE ROMP 29A – SEBRING MONITOR WELL SITE HIGHLANDS COUNTY, FLORIDA FINAL REPORT EXPLORATORY CORING MONITOR-WELL CONSTRUCTION AQUIFER PERFORMANCE TESTING

This document is an addendum to the ROMP 29A – SEBRING MONITOR WELL SITE HIGHLANDS COUNTY, FLORIDA FINAL REPORT EXPLORATORY CORING MONITOR-WELL CONSTRUCTION AQUIFER PERFORMANCE TESTING dated October 2006 (Mallams and Lee, 2006). The purpose of this addendum is to document changes to the hydrostratigraphic framework based on new data and an improved regional understanding since this report was completed in 2006 (attachment 1). This report was completed before the Florida Geological Survey (FGS) provided detailed lithologic descriptions; therefore, the FGS reviewed the core samples, confirmed the Suwannee Limestone is not present, and adjusted the Nocatee Member and Ocala Limestone contact (attachment 2). Additional examination of lithologic, geophysical, and head profile data (an approximately four feet head difference between the Ocala Limestone portion of the Upper Floridan aquifer and the underlying Avon Park Formation, attachment 3) show that middle confining unit I of Miller (1986) is present, and subsequently the lower Floridan aquifer below middle confining unit I (attachment 4). Because middle confining unit I is present, the ROMP 29A Permanent Upper Floridan Monitor/APT dual-interval well is reclassified as the ROMP 29A U Fldn Aq (Ocal)/L Fldn Aq (bl MCU I) Monitor because the upper monitoring interval is open to the Ocala Limestone portion of the upper Floridan aquifer and the lower monitoring interval is open to the lower Floridan aquifer below middle confining unit I (attachment 5).

Updated figures added to this report to assist the reader include: correlation charts for the current hydrogeologic framework of the Southwest Florida Water Management District (attachment 1), updated FGS lithologic description (attachment 2), hydrograph of the upper Floridan aquifer (Ocala) and lower Floridan aquifer below middle confining unit I monitors (dual-interval well) at the ROMP 29A – Sebring well site in Highlands County, Florida (attachment 3), stratigraphic column (attachment 4), and as-built diagram of the ROMP 29A U Fldn Aq (Ocal)/L Fldn Aq (bl MCU I) Monitor (attachment 5).

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A

WYRICK 1960	LICHTLER 1960	CLARKE 1964	LEVE 1966	WOLANSKY 1978	MILLER 1980	BOGGESS 1986; ARTHUR AND OTHERS 2008	SWFWMD PRESENT
nonartesian aquifer	Shallow aquifer	water-table aquifer	shallow aquifer system	unconfined aquifer	surficial aquifer	surficial aquifer system	surficial aquifer
confining unit	*confining unit*	*confining unit*	*confining unit*	*confining unit*	*confining unit*	*confining unit*	*confining unit*

SWFWMD, Southwest Florida Water Management District]

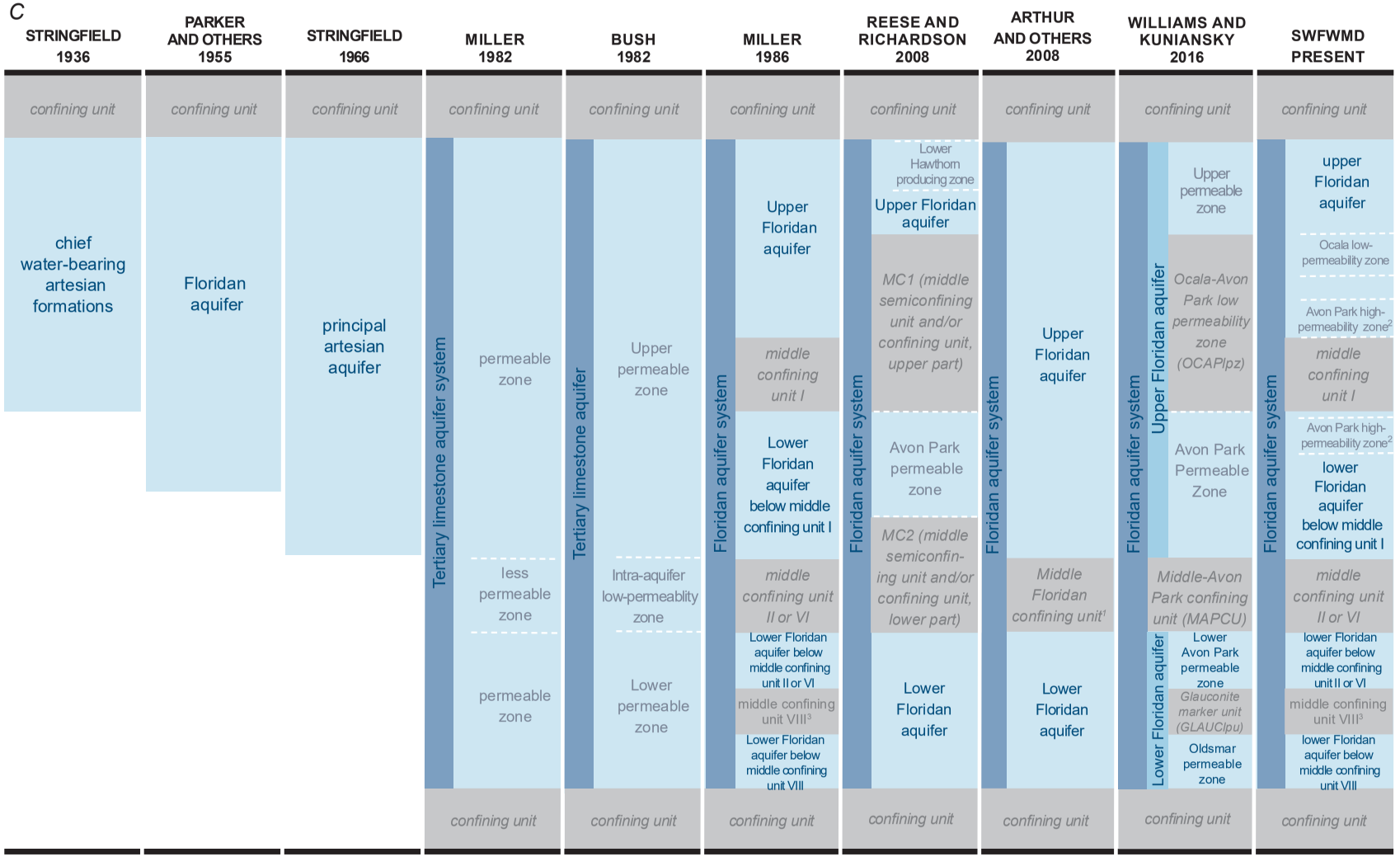
B

SPROUL AND OTHERS 1972	JOYNER, SUTCLIFFE 1976	WEDDERBURN AND OTHERS 1982		WOLANSKY 1983		BARR 1996		TORRES AND OTHERS 2001		KNOCHENMUS 2006		ARTHUR AND OTHERS 2008		SWFWMD PRESENT	
confining unit	*confining unit*	Hawthorn Aquifer System	*confining unit*	Intermediate aquifers	*confining unit*	Intermediate aquifer system	*confining unit*	Intermediate aquifer system	*confining unit*	Intermediate aquifer system	*confining unit*	Intermediate aquifer system / intermediate confining unit	*confining unit*	Hawthorn aquifer system	*confining unit*
sandstone aquifer	Zone 1		Sandstone aquifer		Tamiami - upper Hawthorn aquifer		Permeable Zone 1		Tamiami/ Peace River zone (PZ1)		Zone 1		zones/ aquifers were not delineated		Peace River aquifer
confining unit	*confining unit*		*confining unit*				*confining unit*		*confining unit*		*confining unit*				*confining unit*
upper Hawthorn aquifer	Zone 2		mid-Hawthorn aquifer				Permeable Zone 2		Upper Arcadia zone (PZ2)		Zone 2				upper Arcadia aquifer
confining unit	*confining unit*		*confining unit*		*confining unit*		*confining unit*		*confining unit*		*confining unit*				*confining unit*
lower Hawthorn aquifer	Zone 3	FAS	lower Hawthorn / Tampa producing zone		Lower Hawthorn - upper Tampa aquifer		Permeable Zone 3		Lower Arcadia zone (PZ3)		Zone 3				lower Arcadia aquifer
confining unit	*confining unit*		*confining unit*		*confining unit*		*confining unit*		*confining unit*		*confining unit*		*confining unit*		*confining unit*

[FAS, Floridan aquifer system; PZ, permeable zone; SWFWMD, Southwest Florida Water Management District]

Attachment 1. Updated (as of 2023) nomenclature of (A), the surficial aquifer, (B), the Hawthorn aquifer system, and (C), the Floridan aquifer system used for the ROMP 29A – Sebring well site compared to names in previous reports.

C



[Terms shown are for hydrogeologic units present within the Southwest Florida Water Management District (SWFWMD)]

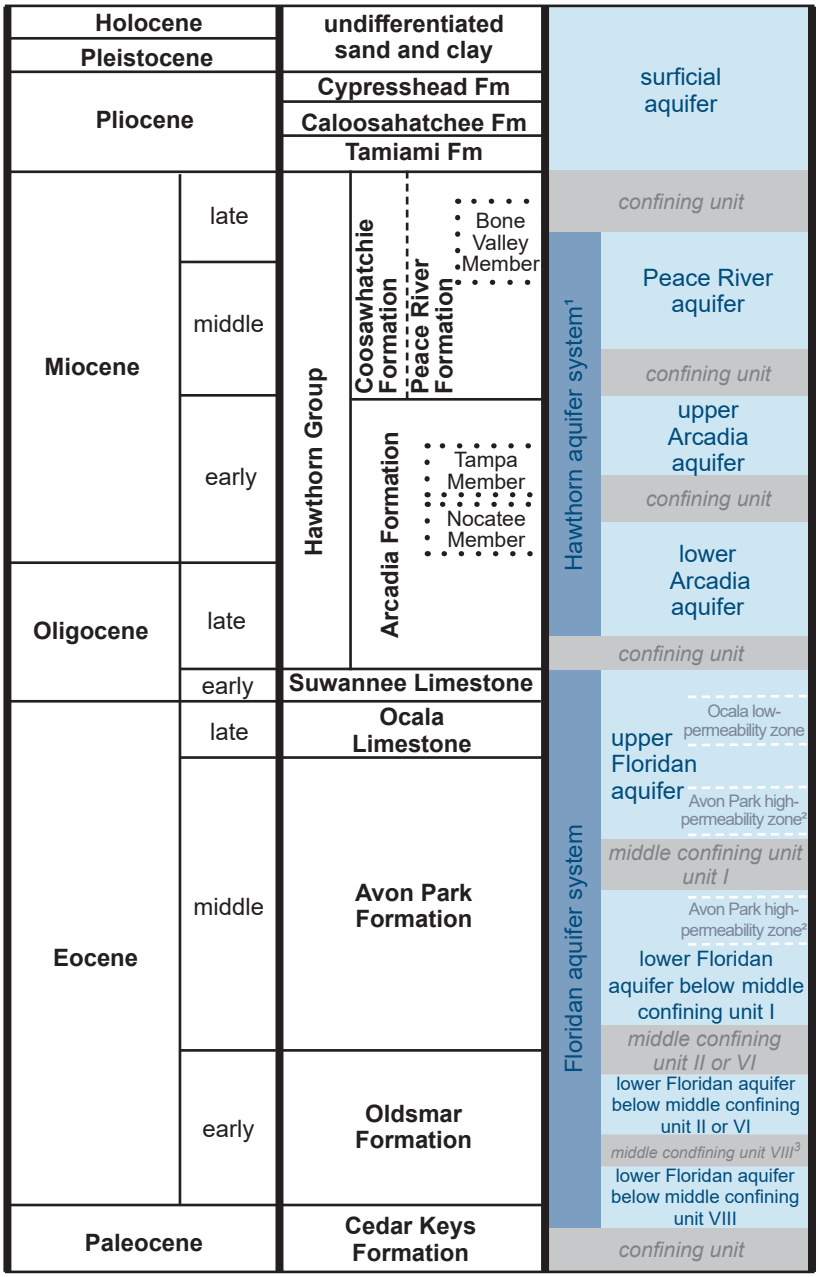
[1]Arthur and others acknowledge existence of the middle confining unit I within the Southwest Florida Water Management but do not map it for Special Publication 68.

[2]The Avon Park high-permeability zone (SWFWMD fracture zone) crosses middle confining unit I in central Polk County; therefore, it occurs above the middle confining unit I in northern Polk and below the middle confining unit I in southern Polk.

[3]The middle confining unit VIII of Miller (1986) in south Florida was extended across the entire peninsula as the Glauconite marker unit based on new data in Williams and Kuniansky (2016).

Attachment 1. (Continued) Updated (as of 2023) nomenclature of (A), the surficial aquifer, (B), the Hawthorn aquifer system, and (C), the Floridan aquifer system used for the ROMP 29A – Sebring well site compared to names in previous reports.

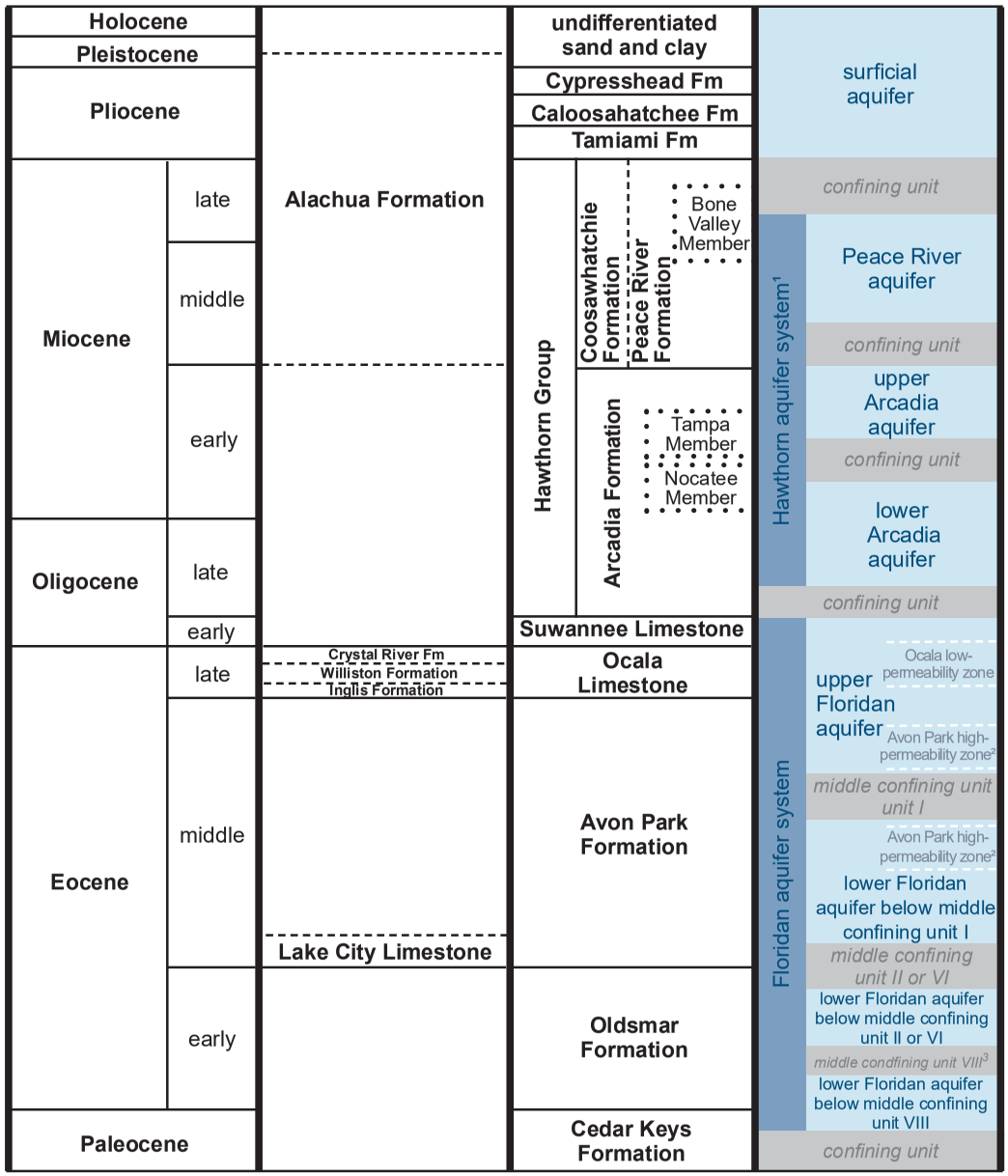
Southwest Florida Water Management District Stratigraphic Correlation Chart



This chart may be used to correlate the chronostratigraphic and lithostratigraphic units of the current hydrogeologic framework model of the Southwest Florida Water Management District.
Note: ¹The Hawthorn aquifer system was previouly referred to as the intermediate aquifer system. ²The Avon Park high-permeability zone (SWFWMD fracture zone) crosses middle confining unit I in central Polk County; therefore, it occurs above the middle confining unit I in northern Polk and below the middle confining unit I in southern Polk. ³The middle confining unit VIII of Miller (1986) was extended beyond the original extent in south Florida based on new data.

Attachment 1. (Continued) Chart correlating lithostratigraphic and hydrostratigraphic units to the current hydrogeologic framework of the Southwest Florida Water Management District.

Southwest Florida Water Management District Stratigraphic Correlation Chart



This chart may be used to correlate the stratigraphic units in past reports to the current hydrogeologic framework model of the Southwest Florida Water Management District.
Note: [1]The Hawthorn aquifer system was previouly referred to as the intermediate aquifer system. [2]The Avon Park high-permeability zone (SWFWMD fracture zone) crosses middle confining unit I in central Polk County; therefore, it occurs above the middle confining unit I in northern Polk and below the middle confining unit I in southern Polk. [3]The middle confining unit VIII of Miller (1986) was extended beyond the original extent in south Florida based on new data.

Attachment 1. (Continued) Chart correlating lithostratigraphic units used in past reports to current lithostratigraphic units and the current hydrogeologic framework of the Southwest Florida Water Management District.

Attachment 2. Lithologic Log for the Samples Collected at the ROMP 29A – Sebring well site in Highlands County, Florida

Florida Department of Environmental Protection

Florida Geological Survey GEODES

Well Number: W-18535 (ROMP 29A - Sebring)

Total Depth: 1877 **Elevation:** 128 feet. **County:** Highlands

Location: Sec 21 T.34S.,R.29E **Drill Completion Date:** 01/10/2001 **Other Logs:**

USGS Quad: LAKE ARBUCKLE SW **Lat/Long:** 27° 30' 9.8" N; 81° 25' 10.7" W **Owner/Driller:** SWFWMD

Described by: RICHARD A. LEE **Verified By PG:** BEN DAVIS, P.G.#: 3202

Comments: Cuttings and core descriptions overlap (1220.0-1244.0); RICK LEE PROF GEO, SWFWMD CORE DRILLER GEORGE DEGROOT-GOOD CORE RECOVERY CONTRACTED EXPLORATORY DRILLED TO 1875 FT BLS BY DIVERSIFIED DRILLING CORP DISTRICT CORE DRILLING CREW ONSITE 11/7/00 AND OFFSITE 4/26/01 DDC CREW ONSITE 4/23/01 AND OFFSITE 10/1/01 RAL-SWFWMD-RESOURCE DATA SECTION; SWFWMD; HOLLOW STEM AUGERS 0-80FT, BAG SAMPLES 80-285FT, NQ WIRELINE CORE 285-1244FT DDC 1250-1875FT WHILE EXPLORATORY DRILLING TO EVAPORITES, 10FT CUTTINGS

Location Accuracy Status: based on GPS-Selective Availability

Suggested Citation: Florida Department of Environmental Protection, Well Number: W-18535 (ROMP 29A - Sebring) Borehole Description Summary by RICHARD A. LEE: Florida Geological Survey GEODES Database version 1.0, accessed 02 May 2024, https://geodes.kyrasolutions.com

Geological Formation Picks

0 - 77 ft	UDSS	Undifferentiated Sand, Clay, and Shells
77 - 190 ft	CYPR	Cypresshead Formation
190 - 285 ft	PCRV	Peace River Formation
285 - 389 ft	ARCA	Arcadia Formation
389 - 464 ft	NOCA	Nocatee Member of Arcadia Fm.
464 - 770 ft	OCAL	Ocala Limestone
770 - 1875 ft	AVPK	Avon Park Formation

0 - 15 ft Sand; Color: Light Yellowish Orange (10YR 8/6) to Dark Yellowish Orange (10YR 6/6); 40% Porosity: Intergranular; Grain Size: Fine; Range: Very Fine to Fine; Roundness: Sub-angular; Sphericity: Medium; Unconsolidated; Sedimentary Structures: Massive; Accessory Minerals: Iron Stain - 25%, Phosphatic Sand - 01%

15 - 25 ft Sand; Color: Moderate Yellowish Brown (10YR 5/4) to Dark Yellowish Orange (10YR 6/6); 40% Porosity: Intergranular; Grain Size: Fine; Range: Very Fine to Fine; Roundness: Sub-angular; Sphericity: Medium; Unconsolidated; Sedimentary Structures: Massive; Accessory Minerals: Iron Stain - 50%, Phosphatic Sand - 01%

25 - 30 ft Sand; Color: Grayish Orange (10YR 7/4) to Light Yellowish Orange (10YR 8/6); 40% Porosity: Intergranular; Grain Size: Fine; Range: Very Fine to Fine; Roundness: Sub-angular; Sphericity: Medium; Unconsolidated; Sedimentary Structures: Massive; Accessory Minerals: Iron Stain - 10%, Phosphatic Sand - 01%

30 - 40 ft Sand; Color: Grayish Orange (10YR 7/4); 40% Porosity: Intergranular; Grain Size: Fine; Range: Very Fine to Fine; Roundness: Subangular; Sphericity: Medium; Unconsolidated; Sedimentary Structures: Massive; Accessory Minerals: Iron Stain - 05%, Phosphatic Sand - 01%

40 - 60 ft Sand; Color: Grayish Orange (10YR 7/4); 40% Porosity: Intergranular; Grain Size: Fine; Range: Very Fine to Fine; Roundness: Subangular; Sphericity: Medium; Unconsolidated; Sedimentary Structures: Massive; Accessory Minerals: Iron Stain - 10%, Phosphatic Sand - 01%

60 - 65 ft Sand; Color: Grayish Orange (10YR 7/4); 40% Porosity: Intergranular; Grain Size: Fine; Range: Very Fine to Fine; Roundness: Subangular; Sphericity: Medium; Unconsolidated; Sedimentary Structures: Massive; Accessory Minerals: Iron Stain - 10%, Phosphatic Sand - 01%; General Fossils: Mollusks, Fossil Fragments

65 - 77 ft Sand; Color: Very Light Orange (10YR 8/2); 40% Porosity: Intergranular; Grain Size: Fine; Range: Fine to Medium; Roundness: Subangular; Sphericity: Medium; Unconsolidated; Sedimentary Structures: Massive; Accessory Minerals: Iron Stain - 3%, Phosphatic Sand - 01%

77 - 79 ft Sand; Color: White (N9); 30% Porosity: Intergranular; Grain Size: Fine; Range: Lithographic to Fine; Roundness: Sub-angular; Sphericity: Medium; Unconsolidated; Accessory Minerals: Clay - 05%, Phosphatic Sand - 01%; Comments: BAG SAMPLES 10FT

79 - 156 ft Sand; Color: White (N9) to Pinkish Gray (5YR 8/1); 40% Porosity: Intergranular; Grain Size: Medium; Range: Fine to Medium; Roundness: Sub-rounded; Sphericity: Medium; Unconsolidated; Sedimentary Structures: Massive; Accessory Minerals: Phosphatic Sand - 01%, Shell - 05%; General Fossils: Fossil Fragments, Mollusks; Comments: SHELL FRAGMENTS FROM 116FT TO 146FT 05%. A SLIGHT INCREASE IN PHOSPHATE WITH DEPTH TO 02% (INTERVAL LISTED AS 76.0FT TO 156.0FT)

156 - 166 ft Sand; Color: White (N9) to Pinkish Gray (5YR 8/1); 40% Porosity: Intergranular; Grain Size: Medium; Range: Medium to Medium; Roundness: Sub-rounded; Sphericity: Medium; Unconsolidated; Sedimentary Structures: Massive; Accessory Minerals: Iron Stain - 01%, Phosphatic Sand - 01%, Shell - 08%; General Fossils: Fossil Fragments, Mollusks

166 - 176 ft Sand; Color: White (N9) to Pinkish Gray (5YR 8/1); 40% Porosity: Intergranular; Grain Size: Medium; Range: Medium to Coarse; Roundness: Sub-rounded; Sphericity: Medium; Unconsolidated; Sedimentary Structures: Massive; Accessory Minerals: Iron Stain - 10%, Phosphatic Sand - %; General Fossils: Fossil Fragments, Mollusks

176 - 186 ft Sand; Color: White (N9) to Pinkish Gray (5YR 8/1); 40% Porosity: Intergranular; Grain Size: Medium; Range: Fine to Coarse; Roundness: Sub-rounded; Sphericity: Medium; Unconsolidated; Sedimentary Structures: Massive; Accessory Minerals: Clay - 01%, Phosphatic Sand - 01%, Shell - 05%; Other Features: Calcareous; General Fossils: Fossil Fragments, Mollusks

186 - 196 ft Sand; Color: White (N9) to Pinkish Gray (5YR 8/1); 25% Porosity: Intergranular; Grain Size: Medium; Range: Lithographic to Medium; Roundness: Sub-rounded; Sphericity: Medium; Unconsolidated; Sedimentary Structures: Massive; Accessory Minerals: Clay - 15%, Iron Stain - 05%, Shell - 20%; Other Features: Calcareous; General Fossils: Fossil Fragments, Mollusks

196 - 206 ft Clay; Color: Moderate Orange Pink (5YR 8/4) to Grayish Orange (10YR 7/4); 8% Porosity: Intergranular;

Grain Size: Lithographic; Range: Lithographic to Very Fine; Roundness: Sub-angular; Sphericity: Medium; Unconsolidated; Accessory Minerals: Quartz Sand - 25%; Other Features: Variegated; Comments: NODULES

206 - 216 ft Clay; Color: Moderate Orange Pink (5YR 8/4) to Yellowish Gray (5Y 7/2); 10% Porosity: Intergranular; Grain Size: Fine; Range: Lithographic to Medium; Roundness: Sub-angular; Unconsolidated; Accessory Minerals: Iron Stain - 01%, Quartz Sand - 30%; Other Features: Variegated; Comments: NODULES

216 - 226 ft Clay; Color: Light Grayish Green (5GY 7/2) to Yellowish Gray (5Y 7/2); 5% Porosity: Intergranular; Grain Size: Very Fine; Range: Lithographic to Very Fine; Roundness: Sub-rounded; Sphericity: Medium; Unconsolidated; Accessory Minerals: Iron Stain - %, Phosphatic Sand - 03%, Quartz Sand - 30%, Shell - %; Other Features: Variegated; Comments: ZERO% CORE RECOVERY

226 - 259.7 ft Sand; Color: Light Greenish Yellow (10Y 8/2) to Light Grayish Green (5GY 7/2); 10% Porosity: Intergranular; Grain Size: Very Fine; Range: Very Fine to Fine; Roundness: Sub-rounded; Sphericity: Medium; Unconsolidated; Cement Type: Calcilutite Matrix, Clay Matrix; Sedimentary Structures: Nodular; Accessory Minerals: Phosphatic Sand - 03%, Shell - 05%; Other Features: Granular, Fossiliferous, Calcareous; General Fossils: Mollusks; Comments: LIMESTONE-SAND NODULE AT TOP AND SMALLER THROUGHOUT

259.7 - 269 ft Sand; Color: Light Olive (10Y 6/2) to Light Grayish Green (5GY 7/2); 15% Porosity: Intergranular; Grain Size: Very Fine; Range: Very Fine to Fine; Roundness: Sub-rounded; Sphericity: Medium; Poor Induration; Cement Type: Clay Matrix; Sedimentary Structures: Interbedded; Accessory Minerals: Clay - 35%, Mica - 01%, Phosphatic Sand - 01%; Other Features: Calcareous

269 - 284 ft Sand; Color: Pinkish Gray (5YR 8/1) to White (N9); 40% Porosity: Intergranular; Grain Size: Fine; Range: Very Fine to Fine; Roundness: Sub-rounded to Sub-angular; Sphericity: Medium; Unconsolidated; Accessory Minerals: Mica - 01%, Phosphatic Sand - 05%; Comments: 0% CORE RECOVERY

284 - 294.5 ft Calcarenite; Color: Light Greenish Yellow (10Y 8/2) to Light Olive (10Y 6/2); 10% Porosity: Intergranular; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 40%; Grain Size: Fine; Range: Lithographic to Medium; Moderate Induration; Cement Type: Calcilutite Matrix, Clay Matrix; Sedimentary Structures: Nodular; Accessory Minerals: Mica - 01%, Phosphatic Sand - 05%, Quartz Sand - 05%

294.5 - 296.5 ft Calcilutite; Color: White (N9); 3% Porosity: Low Permeability; Grain Type: Calcilutite; Allochemical Constituents: 20%; Grain Size: Lithographic; Range: Lithographic to Fine; Good Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Streaked; Accessory Minerals: Phosphatic Sand - 03%, Quartz Sand - 05%, Shell - 05%; Other Features: Weathered; Comments: INCREASING PHOSPHATE AND IRON STAINING WITH DEPTH

296.5 - 299 ft Calcilutite; Color: Pinkish Gray (5YR 8/1) to Yellowish Gray (5Y 7/2); 5% Porosity: Low Permeability; Poor Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Nodular, Streaked; Accessory Minerals: Iron Stain - 05%, Phosphatic Sand - 05%, Quartz Sand - 08%; Other Features: Sucrosic

299 - 303 ft Sandstone; Color: Light Olive Gray (5Y 6/1) to Light Gray (N7); 3% Porosity: Low Permeability; Grain Size: Very Fine; Range: Very Fine to Fine; Roundness: Sub-rounded; Sphericity: Medium; Poor Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Interbedded, Laminated, Mottled, Nodular, Streaked; Accessory Minerals: Calcilutite - 15%, Phosphatic Sand - 10%; Other Features: Speckled, Weathered, Calcareous

303 - 306.5 ft Sandstone; Color: Light Olive Gray (5Y 6/1) to Greenish Gray (5GY 6/1); 2% Porosity: Low Permeability; Grain Size: Very Fine; Range: Very Fine to Fine; Roundness: Sub-rounded; Sphericity: Medium; Moderate Induration; Cement Type: Clay Matrix; Sedimentary Structures: Banded, Nodular, Streaked; Accessory Minerals: Organics - 01%, Phosphatic Sand - 01%

306.5 - 311.5 ft Clay; Color: Greenish Gray (5GY 6/1) to Dark Greenish Gray (5GY 4/1); 2% Porosity: Low Permeability; Moderate Induration; Cement Type: Clay Matrix; Sedimentary Structures: Nodular, Banded; Accessory Minerals: Phosphatic Sand - 12%, Quartz Sand - 10%; Other Features: Dolomitic

311.5 - 313 ft Sandstone; Color: Light Olive Gray (5Y 6/1); 2% Porosity: Low Permeability; Grain Size: Very Fine; Range: Very Fine to Fine; Roundness: Sub-rounded; Sphericity: Medium; Poor Induration; Cement Type: Calcilutite Matrix; Accessory Minerals: Phosphatic Sand - 20%; Other Features: Speckled, Dolomitic, Calcareous

313 - 314.5 ft Calcarenite; Color: Pinkish Gray (5YR 8/1) to Yellowish Gray (5Y 7/2); 2% Porosity: Low Permeability; Grain Type: Calcilutite, Intraclasts; Allochemical Constituents: 10%; Grain Size: Lithographic; Range: Lithographic to Medium; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Nodular; Accessory Minerals: Clay - 15%, Phosphatic Gravel - 10%, Phosphatic Sand - 40%, Quartz Sand - 20%; Other Features: Fossiliferous, Speckled; General Fossils: Mollusks

314.5 - 316.5 ft Sandstone; Color: Very Light Orange (10YR 8/2) to Yellowish Gray (5Y 7/2); 5% Porosity: Low Permeability, Intergranular; Grain Size: Very Fine; Range: Very Fine to Medium; Roundness: Sub-rounded; Sphericity: Medium; Poor Induration; Cement Type: Calcilutite Matrix, Clay Matrix; Sedimentary Structures: Nodular, Mottled; Accessory Minerals: Phosphatic Gravel - 10%, Phosphatic Sand - 30%; Other Features: Weathered, Speckled, Calcareous

316.5 - 321.5 ft Sandstone; Color: Yellowish Gray (5Y 7/2) to Light Olive Gray (5Y 6/1); 5% Porosity: Low Permeability, Intergranular; Grain Size: Very Fine; Range: Very Fine to Medium; Roundness: Sub-rounded; Sphericity: Medium; Moderate Induration; Cement Type: Clay Matrix; Sedimentary Structures: Nodular, Mottled; Accessory Minerals: Clay - 15%, Phosphatic Gravel - 05%, Phosphatic Sand - 35%; Other Features: Speckled

321.5 - 323.5 ft Sandstone; Color: Yellowish Gray (5Y 7/2) to Light Olive Gray (5Y 6/1); 5% Porosity: Low Permeability, Intergranular; Grain Size: Very Fine; Range: Very Fine to Medium; Roundness: Sub-rounded; Sphericity: Medium; Moderate Induration; Cement Type: Clay Matrix, Calcilutite Matrix; Sedimentary Structures: Banded; Accessory Minerals: Clay - 10%, Phosphatic Gravel - 10%, Phosphatic Sand - 35%; Other Features: Speckled, Calcareous

323.5 - 329 ft Sandstone; Color: Light Olive Gray (5Y 5/2) to Olive Gray (5Y 4/1); 2% Porosity: Low Permeability; Grain Size: Very Fine; Range: Very Fine to Medium; Roundness: Sub-rounded; Sphericity: Medium; Moderate Induration; Cement Type: Clay Matrix; Sedimentary Structures: Mottled; Accessory Minerals: Clay - 15%, Phosphatic Gravel - 20%, Phosphatic Sand - 25%

329 - 334 ft Sandstone; Color: Light Olive Gray (5Y 5/2) to Light Olive Gray (5Y 6/1); 3% Porosity: Low Permeability, Intergranular; Grain Size: Very Fine; Range: Very Fine to Medium; Roundness: Sub-rounded; Sphericity: Medium; Moderate Induration; Cement Type: Calcilutite Matrix, Clay Matrix; Sedimentary Structures: Nodular, Mottled; Accessory Minerals: Calcilutite - 15%, Phosphatic Gravel - 05%, Phosphatic Sand - 35%; Other Features: Calcareous

334 - 335 ft Sandstone; Color: Yellowish Gray (5Y 7/2) to Light Olive (10Y 6/2); 5% Porosity: Low Permeability, Intergranular, Fracture; Grain Size: Very Fine; Range: Very Fine to Medium; Roundness: Sub-rounded; Sphericity: Medium; Moderate Induration; Cement Type: Calcilutite Matrix, Clay Matrix; Sedimentary Structures: Mottled, Nodular; Accessory Minerals: Phosphatic Gravel - 05%, Phosphatic Sand - 35%, Shell - 08%; Other Features: Fossiliferous, Calcareous; General Fossils: Fossil Fragments

335 - 337.5 ft Sandstone; Color: Light Olive (10Y 6/2) to Greenish Gray (5GY 6/1); 3% Porosity: Low Permeability, Intergranular; Grain Size: Very Fine; Range: Very Fine to Medium; Roundness: Sub-rounded; Sphericity: Medium; Moderate Induration; Cement Type: Clay Matrix, Calcilutite Matrix; Sedimentary Structures: Nodular; Accessory Minerals: Phosphatic Gravel - 01%, Phosphatic Sand - 20%; Other Features: Fossiliferous; General Fossils: Fossil Fragments; Comments: INCREASING PHOSPHATIC SAND WITH DEPTH

337.5 - 338.5 ft Sandstone; Color: Light Olive Gray (5Y 5/2) to Light Olive Gray (5Y 6/1); 5% Porosity: Low Permeability, Intergranular; Grain Size: Very Fine; Range: Very Fine to Medium; Roundness: Sub-rounded; Sphericity: Medium; Moderate Induration; Cement Type: Clay Matrix, Calcilutite Matrix; Sedimentary Structures: Nodular, Mottled, Banded; Accessory Minerals: Phosphatic Gravel - 01%, Phosphatic Sand - 50%; Other Features: Fossiliferous; General Fossils: Fossil Fragments

338.5 - 343 ft Sandstone; Color: Light Olive Gray (5Y 6/1) to Greenish Gray (5GY 6/1); 2% Porosity: Low Permeability; Grain Size: Very Fine; Range: Very Fine to Medium; Roundness: Sub-rounded; Sphericity: Medium; Moderate Induration;

Cement Type: Clay Matrix, Calcilutite Matrix; Sedimentary Structures: Nodular, Streaked; Accessory Minerals: Phosphatic Gravel - 01%, Phosphatic Sand - 15%

343 - 345.5 ft Sandstone; Color: Yellowish Gray (5Y 8/1) to Light Greenish Gray (5GY 8/1); 3% Porosity: Low Permeability; Grain Size: Very Fine; Range: Very Fine to Medium; Roundness: Sub-rounded; Sphericity: Medium; Moderate Induration; Cement Type: Clay Matrix, Calcilutite Matrix; Sedimentary Structures: Nodular; Accessory Minerals: Phosphatic Gravel - 02%, Phosphatic Sand - 10%; Other Features: Fossiliferous; General Fossils: Fossil Fragments, Mollusks

345.5 - 348 ft Sandstone; Color: Yellowish Gray (5Y 8/1) to Grayish Blue Green (5BG 5/2); 2% Porosity: Low Permeability; Grain Size: Very Fine; Range: Very Fine to Medium; Roundness: Sub-rounded; Sphericity: Medium; Good Induration; Cement Type: Calcilutite Matrix, Clay Matrix; Sedimentary Structures: Nodular; Accessory Minerals: Clay - 25%, Phosphatic Gravel - 01%, Phosphatic Sand - 10%; Other Features: Fossiliferous, Calcareous; General Fossils: Fossil Fragments, Mollusks

348 - 349 ft Sandstone; Color: Yellowish Gray (5Y 8/1) to Greenish Gray (5GY 6/1); 2% Porosity: Low Permeability; Grain Size: Very Fine; Range: Very Fine to Fine; Roundness: Sub-rounded; Sphericity: Medium; Moderate Induration; Cement Type: Clay Matrix; Sedimentary Structures: Mottled; Accessory Minerals: Phosphatic Sand - 15%

349 - 351 ft Sandstone; Color: Light Olive Gray (5Y 6/1) to Pinkish Gray (5YR 8/1); 3% Porosity: Low Permeability; Grain Size: Very Fine; Range: Very Fine to Medium; Roundness: Sub-rounded; Sphericity: Medium; Poor Induration; Cement Type: Clay Matrix; Sedimentary Structures: Streaked; Accessory Minerals: Phosphatic Gravel - 01%, Phosphatic Sand - 20%; Other Features: Fossiliferous; General Fossils: Fossil Fragments

351 - 356 ft Sandstone; Color: Yellowish Gray (5Y 7/2) to Light Olive Gray (5Y 6/1); 3% Porosity: Low Permeability; Grain Size: Very Fine; Range: Very Fine to Medium; Roundness: Sub-rounded; Sphericity: Medium; Moderate Induration; Cement Type: Clay Matrix, Calcilutite Matrix; Accessory Minerals: Phosphatic Sand - 25%; Comments: INCREASING PHOSPHATIC SAND WITH DEPTH - 25-50% RANGE

356 - 358 ft Dolostone; Color: Pinkish Gray (5YR 8/1) to Yellowish Gray (5Y 8/1); 20% Porosity: Moldic, Vugular, Possibly High Permeablity; Alteration: Medium (10-50%); Crystallinity: Anhedral; Grain Size: Cryptocrystalline; Range: Very Fine to Cryptocrystalline; Good Induration; Cement Type: Dolomite, Calcilutite Matrix; Sedimentary Structures: Bedded, Bioturbated; Accessory Minerals: Limestone - 30%, Phosphatic Gravel - 02%, Phosphatic Sand - 10%, Quartz - 01%; Other Features: Medium Recrystallization, Fossiliferous, Weathered, Calcareous; General Fossils: Fossil Fragments, Fossil Molds, Mollusks, Coral; Comments: CALCITE CRYSTAL

358 - 362 ft Dolostone; Color: Pinkish Gray (5YR 8/1) to Yellowish Gray (5Y 8/1); 12% Porosity: Vugular, Possibly High Permeablity; Alteration: Medium (10-50%); Crystallinity: Anhedral; Grain Size: Cryptocrystalline; Range: Very Fine to Cryptocrystalline; Moderate Induration; Cement Type: Dolomite, Calcilutite Matrix, Clay Matrix; Sedimentary Structures: Bedded; Accessory Minerals: Limestone - 25%, Phosphatic Gravel - 02%, Phosphatic Sand - 10%, Quartz - 01%; Other Features: Medium Recrystallization, Fossiliferous, Weathered, Calcareous; General Fossils: Fossil Fragments, Fossil Molds, Mollusks; Comments: LESS FOSSILIFEROUS THAN 356-358’ BUT HIGHLY WEATHERED

362 - 369.5 ft Calcarenite; Color: White (N9) to Pinkish Gray (5YR 8/1); 12% Porosity: Pinpoint, Vugular; Grain Type: Calcilutite, Crystals; Allochemical Constituents: 20%; Grain Size: Cryptocrystalline; Range: Very Fine to Cryptocrystalline; Good Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Streaked; Accessory Minerals: Calcite - 05%, Phosphatic Gravel - 01%, Phosphatic Sand - 01%; Other Features: Medium Recrystallization, Fossiliferous; General Fossils: Fossil Fragments, Fossil Molds, Mollusks; Comments: VUGS IN LOWER PORTION FILLED WITH RECRYSTALIZED CALCITE BLOTHY NODES CLAY-CALCILUTITE

369.5 - 379 ft Calcarenite; Color: White (N9) to Pinkish Gray (5YR 8/1); 4% Porosity: Pinpoint; Grain Type: Calcilutite, Crystals, Intraclasts; Allochemical Constituents: 15%; Grain Size: Cryptocrystalline; Range: Very Fine to Cryptocrystalline; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Bedded; Accessory Minerals: Calcite - 05%, Phosphatic Gravel - 05%, Phosphatic Sand - 05%; Other Features: Low Recrystallization, Fossiliferous, Weathered; General Fossils: Fossil Fragments, Fossil Molds, Mollusks; Comments: SIMILAR TO ABOVE BUT WEATHERED WITH MORE

PHOSPHATIC SAND- GRAVEL

379 - 389 ft Calcarenite; Color: White (N9) to Very Light Gray (N8); 15% Porosity: Pinpoint, Vugular, Fracture; Grain Type: Calcilutite, Crystals; Grain Size: Cryptocrystalline; Range: Very Fine to Cryptocrystalline; Good Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Bedded; Accessory Minerals: Phosphatic Gravel - 03%, Phosphatic Sand - 05%, Quartz Sand - 05%; General Fossils: Benthic Foraminifera; Comments: SOME VUGS AND MOLDS. 50-100% RECRYSTALIZED CALCITE AS WELL AS SAND-SIZE CALCITE GRAINS WITHIN MATRIX NOCATEE TOP, SORITES AT 382FT

389 - 394 ft Dolostone; Color: Yellowish Gray (5Y 7/2) to Pinkish Gray (5YR 8/1); 8% Porosity: Pinpoint, Vugular; Alteration: Medium (10-50%); Crystallinity: Subhedral; Grain Size: Cryptocrystalline; Range: Very Fine to Cryptocrystalline; Good Induration; Cement Type: Dolomite, Calcilutite Matrix; Accessory Minerals: Calcite - 25%, Phosphatic Gravel - 01%, Phosphatic Sand - 05%, Quartz Sand - 30%; Other Features: High Recrystallization, Weathered; General Fossils: Fossil Fragments, Fossil Molds, Mollusks

394 - 395 ft Sand; Color: Light Olive Gray (5Y 5/2) to Olive Gray (5Y 4/1); 35% Porosity: Intergranular; Grain Size: Very Fine; Range: Fine to Very Fine; Roundness: Sub-angular; Sphericity: Medium; Poor Induration; Cement Type: Dolomite, Clay Matrix; Sedimentary Structures: Bedded, Banded; Accessory Minerals: Phosphatic Gravel - 02%, Phosphatic Sand - 10%; Other Features: Weathered

395 - 397.5 ft Sand; Color: Light Gray (N7) to Light Olive Gray (5Y 6/1); 10% Porosity: Intergranular, Low Permeability; Grain Size: Very Fine; Range: Very Fine to Fine; Roundness: Sub-angular; Sphericity: Medium; Moderate Induration; Cement Type: Clay Matrix; Sedimentary Structures: Bedded, Nodular, Banded; Accessory Minerals: Clay - 20%, Phosphatic Gravel - 01%, Phosphatic Sand - 15%; Other Features: Weathered, Granular; Comments: GREEN CLAY NODULES AND SANDS.

397.5 - 400 ft Sand; Color: Olive Gray (5Y 4/1) to Dark Greenish Gray (5GY 4/1); 8% Porosity: Low Permeability, Intergranular; Grain Size: Very Fine; Range: Very Fine to Fine; Roundness: Sub-rounded; Sphericity: Medium; Poor Induration; Cement Type: Clay Matrix; Accessory Minerals: Phosphatic Gravel - 01%, Phosphatic Sand - 05%; Other Features: Granular

400 - 407 ft Clay; Color: Light Olive Gray (5Y 6/1); 3% Porosity: Low Permeability; Poor Induration; Cement Type: Clay Matrix; Accessory Minerals: Phosphatic Gravel - 01%, Phosphatic Sand - 10%, Quartz Sand - 25%; Other Features: Granular

407 - 414.5 ft Clay; Color: Greenish Gray (5GY 6/1) to Greenish Gray (5G 6/1); 3% Porosity: Low Permeability; Poor Induration; Cement Type: Clay Matrix; Sedimentary Structures: Mottled, Nodular; Accessory Minerals: Phosphatic Gravel - 01%, Phosphatic Sand - 20%, Quartz Sand - 20%

414.5 - 419 ft Clay; Color: Olive Gray (5Y 4/1) to Dark Greenish Gray (5GY 4/1); 3% Porosity: Low Permeability; Poor Induration; Cement Type: Clay Matrix; Accessory Minerals: Phosphatic Gravel - 01%, Phosphatic Sand - 25%, Quartz Sand - 20%

419 - 434 ft Clay; Color: Olive Gray (5Y 3/2) to Greenish Black (5GY 2/1); 2% Porosity: Low Permeability; Moderate Induration; Cement Type: Clay Matrix; Other Features: Plastic, Greasy; Comments: GREENISH-BLACK CLAY; GREASY FEEL.

434 - 441 ft Clay; Color: Grayish Olive (10Y 4/2) to Olive Gray (5Y 3/2); 2% Porosity: Low Permeability; Poor Induration; Cement Type: Clay Matrix; Accessory Minerals: Phosphatic Sand - 05%, Quartz Sand - 02%; Other Features: Granular

441 - 449 ft Sand; Color: Light Olive Gray (5Y 6/1) to Olive Gray (5Y 4/1); 4% Porosity: Low Permeability; Grain Size: Very Fine; Range: Very Fine to Fine; Roundness: Sub-rounded; Sphericity: Medium; Poor Induration; Cement Type: Clay Matrix; Accessory Minerals: Clay - 15%, Phosphatic Sand - 05%; Other Features: Granular

449 - 451.5 ft Sand; Color: Light Olive Gray (5Y 6/1); 3% Porosity: Low Permeability, Intergranular; Grain Size: Very Fine; Range: Very Fine to Fine; Roundness: Sub-rounded; Sphericity: Medium; Poor Induration; Cement Type: Calcilutite Matrix; Accessory Minerals: Calcilutite - 20%, Phosphatic Gravel - 01%, Phosphatic Sand - 05%; Other Features: Calcareous, Granular, Weathered; General Fossils: Mollusks

451.5 - 455 ft Sand; Color: Light Olive Gray (5Y 6/1); 3% Porosity: Low Permeability, Intergranular; Grain Size: Very Fine; Range: Very Fine to Fine; Roundness: Sub-rounded; Sphericity: Medium; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Bedded; Accessory Minerals: Calcilutite - 20%, Calcite - 05%, Phosphatic Sand - 05%; Other Features: Low Recrystallization, Calcareous; General Fossils: Mollusks

455 - 459 ft Sand; Color: Light Olive Gray (5Y 6/1); 3% Porosity: Low Permeability, Intergranular; Grain Size: Very Fine; Range: Very Fine to Fine; Roundness: Sub-rounded; Sphericity: Medium; Poor Induration; Cement Type: Calcilutite Matrix; Accessory Minerals: Calcilutite - 30%, Phosphatic Sand - 05%; Other Features: Calcareous, Granular, Weathered; General Fossils: Mollusks; Comments: LIMESTONE STRINGER BOTTOM OF RUN.

459 - 461 ft Sand; Color: Olive Gray (5Y 4/1); 4% Porosity: Low Permeability; Grain Size: Very Fine; Range: Very Fine to Fine; Roundness: Subrounded; Sphericity: Medium; Poor Induration; Cement Type: Calcilutite Matrix, Clay Matrix; Accessory Minerals: Calcilutite - 10%, Phosphatic Sand - 05%; Other Features: Granular

461 - 462 ft Sand; Color: Light Gray (N7) to Light Olive Gray (5Y 6/1); 4% Porosity: Low Permeability, Vugular; Grain Size: Very Fine; Range: Very Fine to Fine; Roundness: Sub-rounded; Sphericity: Medium; Good Induration; Cement Type: Calcilutite Matrix; Accessory Minerals: Calcilutite - 15%, Phosphatic Sand - 05%; Other Features: Calcareous; General Fossils: Fossil Fragments, Fossil Molds, Mollusks

462 - 463 ft Sand; Color: Olive Gray (5Y 4/1) to Dark Greenish Gray (5GY 4/1); 2% Porosity: Low Permeability; Grain Size: Very Fine; Range: Very Fine to Fine; Roundness: Sub-rounded; Sphericity: Medium; Poor Induration; Cement Type: Clay Matrix, Calcilutite Matrix; Accessory Minerals: Calcilutite - 20%, Phosphatic Sand - 03%; Other Features: Granular, Calcareous

463 - 464 ft Calcarenite; Color: Yellowish Gray (5Y 7/2) to Light Olive Gray (5Y 6/1); 8% Porosity: Intergranular, Pinpoint; Grain Type: Calcilutite, Intraclasts; Allochemical Constituents: 30%; Grain Size: Lithographic; Range: Very Fine to Lithographic; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Mottled; Accessory Minerals: Phosphatic Sand - 03%, Quartz Sand - 10%; Other Features: Granular; General Fossils: Mollusks, Coral, Fossil Molds

464 - 466 ft Calcarenite; Color: Yellowish Gray (5Y 8/1) to Very Light Orange (10YR 8/2); 8% Porosity: Intergranular, Pinpoint; Grain Type: Calcilutite, Intraclasts; Allochemical Constituents: 20%; Grain Size: Lithographic; Range: Very Fine to Lithographic; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Fissile; Accessory Minerals: Quartz Sand - 05%; Other Features: Fossiliferous, Calcareous; General Fossils: Mollusks, Coral, Fossil Molds, Fossil Fragments, Echinoid; Comments: Top of Ocala Limestone.

466 - 469.2 ft Calcilutite; Color: Yellowish Gray (5Y 8/1) to Very Light Orange (10YR 8/2); 2% Porosity: Low Permeability; Grain Type: Calcilutite; Allochemical Constituents: 20%; Grain Size: Lithographic; Range: Very Fine to Lithographic; Good Induration; Cement Type: Calcilutite Matrix; Accessory Minerals: Phosphatic Sand - 01%

469.2 - 474 ft Clay; Color: Yellowish Gray (5Y 8/1) to Very Light Orange (10YR 8/2); 3% Porosity: Low Permeability; Poor Induration; Cement Type: Clay Matrix, Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Phosphatic Sand - 01%, Quartz Sand - 01%; Other Features: Calcareous, Granular

474 - 475.5 ft Calcarenite; Color: Yellowish Gray (5Y 8/1) to Very Light Orange (10YR 8/2); 4% Porosity: Intergranular, Pinpoint; Grain Type: Calcilutite; Allochemical Constituents: 20%; Grain Size: Lithographic; Range: Very Fine to Lithographic; Moderate Induration; Cement Type: Calcilutite Matrix; Accessory Minerals: Phosphatic Sand - 02%

475.5 - 476 ft Calcilutite; Color: Yellowish Gray (5Y 8/1) to Very Light Orange (10YR 8/2); 2% Porosity: Low Permeability; Grain Type: Calcilutite; Allochemical Constituents: 20%; Grain Size: Lithographic; Range: Very Fine to

Lithographic; Good Induration; Cement Type: Calcilutite Matrix; Accessory Minerals: Phosphatic Sand - 01%; General Fossils: Fossil Molds

476 - 477.5 ft Clay; Color: Yellowish Gray (5Y 7/2) to Light Olive Gray (5Y 6/1); 2% Porosity: Low Permeability; Poor Induration; Cement Type: Clay Matrix, Calcilutite Matrix; Sedimentary Structures: Interbedded; Accessory Minerals: Phosphatic Sand - 05%; Other Features: Granular
477.5 - 478 ft Calcilutite; Color: Yellowish Gray (5Y 8/1); 3% Porosity: Vugular; Grain Type: Calcilutite; Allochemical Constituents: 20%; Grain Size: Lithographic; Range: Very Fine to Lithographic; Good Induration; Cement Type: Calcilutite Matrix; General Fossils: Fossil Fragments, Fossil Molds, Mollusks

478 - 478.8 ft Calcarenite; Color: Yellowish Gray (5Y 8/1) to Very Light Orange (10YR 8/2); 3% Porosity: Intergranular; Grain Type: Calcilutite; Allochemical Constituents: 20%; Grain Size: Lithographic; Range: Very Fine to Lithographic; Poor Induration; Cement Type: Calcilutite Matrix; Accessory Minerals: Phosphatic Sand - %; Other Features: Weathered, Fossiliferous; General Fossils: Fossil Fragments, Fossil Molds, Mollusks, Crustacea

478.8 - 479 ft Calcilutite; Color: Yellowish Gray (5Y 8/1); 2% Porosity: Low Permeability; Grain Type: Calcilutite; Allochemical Constituents: 20%; Grain Size: Lithographic; Range: Very Fine to Lithographic; Moderate Induration; Cement Type: Calcilutite Matrix; General Fossils: Fossil Fragments, Fossil Molds, Mollusks; Comments: TOP OF OCALA

479 - 484 ft Calcarenite; Color: Yellowish Gray (5Y 8/1); 3% Porosity: Intergranular, Pinpoint; Grain Type: Calcilutite; Allochemical Constituents: 25%; Grain Size: Lithographic; Range: Very Fine to Lithographic; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Phosphatic Gravel - %, Pyrite - %; General Fossils: Mollusks

484 - 487 ft Calcarenite; Color: Yellowish Gray (5Y 8/1); 4% Porosity: Intergranular; Grain Type: Calcilutite; Allochemical Constituents: 25%; Grain Size: Lithographic; Range: Very Fine to Lithographic; Poor Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Phosphatic Sand - 01%; Other Features: Weathered; General Fossils: Diatoms

487 - 489 ft Calcarenite; Color: Yellowish Gray (5Y 8/1); 4% Porosity: Intergranular, Pinpoint; Grain Type: Calcilutite; Allochemical Constituents: 30%; Grain Size: Lithographic; Range: Very Fine to Lithographic; Moderate Induration; Cement Type: Calcilutite Matrix; General Fossils: Mollusks, Fossil Molds

489 - 496 ft Calcilutite; Color: Yellowish Gray (5Y 8/1); 25% Porosity: Moldic, Possibly High Permeablity; Allochemical Constituents: 35%; Grain Size: Lithographic; Range: Very Fine to Lithographic; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Bedded; Accessory Minerals: Phosphatic Gravel - 05%, Phosphatic Sand - 01%; Other Features: Weathered, Platy; General Fossils: Mollusks, Benthic Foraminifera, Fossil Fragments, Fossil Molds

496 - 512.5 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 2% Porosity: Low Permeability, Pinpoint; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 30%; Grain Size: Very Fine; Range: Lithographic to Very Fine; Moderate Induration; Cement Type: Clay Matrix, Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Calcite - %; Other Features: Chalky; General Fossils: Mollusks, Benthic Foraminifera, Fossil Fragments, Fossil Molds

512.5 - 514 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 4% Porosity: Low Permeability, Pinpoint; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 30%; Grain Size: Very Fine; Range: Lithographic to Very Fine; Moderate Induration; Cement Type: Clay Matrix, Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Calcite - %, Dolomite - 05%; Other Features: Dolomitic; General Fossils: Mollusks, Benthic Foraminifera; Comments: SIMILAR TO ABOVE EXCEPT CUMBLY W/ GRAY MATERIAL.

514 - 514.7 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 2% Porosity: Low Permeability, Not Observed; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 20%; Grain Size: Very Fine; Range: Lithographic to Very Fine; Moderate Induration; Cement Type: Clay Matrix, Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Dolomite - 01%

514.7 - 515.5 ft Calcarenite; Color: Very Light Orange (10YR 8/2) to Yellowish Gray (5Y 8/1); 4% Porosity: Low Permeability, Pinpoint; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 40%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Clay Matrix, Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Calcite - 01%, Dolomite - 15%; Other Features: Dolomitic

515.5 - 516.5 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 8% Porosity: Intergranular, Pinpoint, Vugular; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 50%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Clay Matrix, Calcilutite Matrix; Sedimentary Structures: Massive, Bioturbated; Accessory Minerals: Calcite - 01%, Dolomite - 05%; Other Features: Dolomitic; General Fossils: Mollusks, Benthic Foraminifera, Spicules

516.5 - 517.2 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 12% Porosity: Intergranular, Moldic; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 50%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Clay Matrix, Calcilutite Matrix; Sedimentary Structures: Massive, Bioturbated; Accessory Minerals: Calcite - 01%, Dolomite - 05%; Other Features: Dolomitic; General Fossils: Mollusks, Benthic Foraminifera

517.2 - 518.4 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 4% Porosity: Intergranular, Pinpoint, Moldic; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 30%; Grain Size: Very Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Clay Matrix, Calcilutite Matrix; Sedimentary Structures: Massive, Bioturbated; Accessory Minerals: Calcite - 01%, Dolomite - 03%; Other Features: Dolomitic; General Fossils: Mollusks, Benthic Foraminifera

518.4 - 540.5 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 4% Porosity: Intergranular, Not Observed, Pinpoint; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 25%; Grain Size: Very Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix, Clay Matrix; Sedimentary Structures: Massive; Accessory Minerals: Calcite - 01%, Dolomite - 01%; General Fossils: Mollusks, Benthic Foraminifera

540.5 - 549 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 8% Porosity: Intergranular, Pinpoint, Moldic; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 40%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix, Clay Matrix; Sedimentary Structures: Massive, Bioturbated; Accessory Minerals: Calcite - 01%, Dolomite - 02%; Other Features: Dolomitic; General Fossils: Mollusks, Benthic Foraminifera; Comments: LEPS

549 - 555.6 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 4% Porosity: Intergranular, Pinpoint; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 20%; Grain Size: Very Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix, Clay Matrix; Sedimentary Structures: Massive; Accessory Minerals: Calcite - 02%, Dolomite - %; General Fossils: Mollusks, Benthic Foraminifera

555.6 - 589.6 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 6% Porosity: Intergranular, Pinpoint, Moldic; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 40%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix, Clay Matrix; Sedimentary Structures: Massive, Bioturbated; Accessory Minerals: Calcite - 03%, Dolomite - 02%; Other Features: Dolomitic; General Fossils: Mollusks, Benthic Foraminifera, Fossil Fragments; Comments: LEPS, NU

589.6 - 594 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 4% Porosity: Intergranular, Not Observed; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 20%; Grain Size: Very Fine; Range: Lithographic to Fine; Poor Induration; Cement Type: Calcilutite Matrix, Clay Matrix; Sedimentary Structures: Massive; Other Features: Weathered; General Fossils: Benthic Foraminifera; Comments: LEPS

594 - 599.9 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 6% Porosity: Intergranular, Pinpoint, Moldic; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 30%; Grain Size: Very Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix, Clay Matrix; Sedimentary Structures: Massive, Bioturbated; Accessory Minerals: Calcite - 03%, Dolomite - 01%; General Fossils: Benthic Foraminifera; Comments: LEPS, NUMMULITES

599.9 - 604.3 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 8% Porosity: Intergranular, Pinpoint, Moldic; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 40%; Grain Size: Fine; Range: Lithographic to Fine; Moderate

Induration; Cement Type: Calcilutite Matrix, Clay Matrix; Sedimentary Structures: Massive, Bioturbated; Accessory Minerals: Calcite - 03%, Dolomite - 02%; Other Features: Fossiliferous; General Fossils: Benthic Foraminifera; Comments: LEPS, NUMMULITES

604.3 - 607.7 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 4% Porosity: Intergranular, Not Observed; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 30%; Grain Size: Very Fine; Range: Lithographic to Fine; Poor Induration; Cement Type: Calcilutite Matrix, Clay Matrix; Sedimentary Structures: Massive; General Fossils: Benthic Foraminifera; Comments: LEPS, NUMMULITES

607.7 - 615.3 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 10% Porosity: Intergranular, Moldic, Pinpoint; Grain Type: Intraclasts, Calcilutite, Biogenic; Allochemical Constituents: 40%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix, Clay Matrix; Sedimentary Structures: Massive, Bioturbated; Accessory Minerals: Calcite - 02%, Dolomite - 01%; Other Features: Fossiliferous; General Fossils: Benthic Foraminifera; Comments: LEPS, NUMMULITES

615.3 - 618.6 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 4% Porosity: Intergranular, Not Observed; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 30%; Grain Size: Very Fine; Range: Lithographic to Fine; Poor Induration; Cement Type: Calcilutite Matrix, Clay Matrix; Sedimentary Structures: Massive; General Fossils: Benthic Foraminifera; Comments: LEPS, NUMMULITES

618.6 - 646.9 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 8% Porosity: Intergranular, Moldic, Pinpoint; Grain Type: Intraclasts, Calcilutite, Biogenic; Allochemical Constituents: 40%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive, Bioturbated; Accessory Minerals: Calcite - 02%, Dolomite - 05%; Other Features: Fossiliferous; General Fossils: Benthic Foraminifera; Comments: LEPS, NUMMULITES

646.9 - 648.2 ft Calcarenite; Color: Very Light Orange (10YR 8/2) to Yellowish Gray (5Y 8/1); 4% Porosity: Intergranular, Not Observed; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 30%; Grain Size: Very Fine; Range: Lithographic to Fine; Poor Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Calcite - 02%; General Fossils: Benthic Foraminifera; Comments: LEPS, NUMMULITES

648.2 - 664 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 7% Porosity: Intergranular, Moldic, Pinpoint; Grain Type: Intraclasts, Calcilutite, Biogenic; Allochemical Constituents: 40%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive, Bioturbated; Accessory Minerals: Dolomite - 02%; General Fossils: Benthic Foraminifera; Comments: LEPS, NUMMULITES; NO CORE SAMPLE 664-669; ONLY BAG OF CALCILUTITE MATERIAL.

664 - 670 ft Calcilutite; Color: Very Light Orange (10YR 8/2); 3% Porosity: Not Observed, Intergranular; Grain Type: Calcilutite; Allochemical Constituents: 10%; Grain Size: Lithographic; Range: Lithographic to Very Fine; Poor Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive

670 - 673 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 5% Porosity: Intergranular, Not Observed; Grain Type: Calcilutite, Intraclasts; Allochemical Constituents: 25%; Grain Size: Very Fine; Range: Lithographic to Fine; Poor Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive, Bioturbated; Accessory Minerals: Dolomite - 02%, Limestone - 02%; General Fossils: Benthic Foraminifera; Comments: LEPS, NUMMULITES

673 - 679.2 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 8% Porosity: Intergranular, Not Observed; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 40%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive, Bioturbated; Accessory Minerals: Calcite - 01%, Dolomite - 02%; Other Features: Fossiliferous; General Fossils: Benthic Foraminifera; Comments: LEPS, NUMMULITES

679.2 - 680 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 5% Porosity: Not Observed, Intergranular; Grain Type: Calcilutite, Intraclasts; Allochemical Constituents: 30%; Grain Size: Fine; Range: Lithographic to Fine; Unconsolidated; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive, Bioturbated; Accessory Minerals: Calcite - 01%, Dolomite

- 02%; Other Features: Fossiliferous; General Fossils: Benthic Foraminifera; Comments: LEPS, NUMMULITES

680 - 684.6 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 8% Porosity: Intergranular, Not Observed; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 50%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive, Bioturbated; Accessory Minerals: Calcite - 02%, Dolomite - 04%; Other Features: Fossiliferous; General Fossils: Benthic Foraminifera; Comments: LEPS, NUMMULITES

684.6 - 685.8 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 4% Porosity: Not Observed; Grain Type: Calcilutite, Intraclasts; Allochemical Constituents: 20%; Grain Size: Very Fine; Range: Lithographic to Fine; Unconsolidated; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Dolomite - 02%; General Fossils: Benthic Foraminifera; Comments: LEPS, NUMMULITES

685.8 - 695.8 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 8% Porosity: Intergranular, Not Observed; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 40%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive, Bioturbated; Accessory Minerals: Calcite - 02%, Dolomite - 05%; Other Features: Fossiliferous; General Fossils: Benthic Foraminifera; Comments: LEPS, NUMMULITES

695.8 - 698.1 ft Calcilutite; Color: Very Light Orange (10YR 8/2); 3% Porosity: Not Observed; Grain Type: Calcilutite, Intraclasts; Allochemical Constituents: 25%; Grain Size: Very Fine; Range: Lithographic to Very Fine; Unconsolidated; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive

698.1 - 701.4 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 8% Porosity: Intergranular, Not Observed; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 40%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive, Bioturbated; Accessory Minerals: Calcite - 02%, Dolomite - 03%; Other Features: Fossiliferous; General Fossils: Benthic Foraminifera; Comments: LEPS, NUMMULITES

701.4 - 702.1 ft Calcilutite; Color: Very Light Orange (10YR 8/2); 3% Porosity: Not Observed; Grain Type: Calcilutite, Intraclasts; Allochemical Constituents: 25%; Grain Size: Very Fine; Range: Lithographic to Very Fine; Unconsolidated; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive

702.1 - 704.7 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 8% Porosity: Intergranular, Not Observed; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 40%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive, Bioturbated; Accessory Minerals: Calcite - 01%, Dolomite - 03%; Other Features: Fossiliferous; General Fossils: Benthic Foraminifera; Comments: LEPS, NUMMULITES

704.7 - 705.4 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 8% Porosity: Intergranular, Not Observed; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 40%; Grain Size: Fine; Range: Lithographic to Fine; Unconsolidated; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive, Bioturbated; Accessory Minerals: Calcite - %, Dolomite - 03%; Other Features: Fossiliferous; General Fossils: Benthic Foraminifera; Comments: LEPS, NUMMULITES

705.4 - 709.4 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 8% Porosity: Intergranular, Not Observed; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 40%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive, Bioturbated; Accessory Minerals: Calcite - %, Dolomite - 02%; Other Features: Fossiliferous; General Fossils: Benthic Foraminifera; Comments: LEPS, NUMMULITES

709.4 - 714 ft Calcilutite; Color: Very Light Orange (10YR 8/2); 3% Porosity: Not Observed; Grain Type: Calcilutite, Intraclasts; Allochemical Constituents: 20%; Grain Size: Very Fine; Range: Lithographic to Fine; Unconsolidated; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Other Features: Plastic

714 - 715.2 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 6% Porosity: Intergranular, Not Observed; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 40%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Calcite - %, Dolomite - 02%; General Fossils: Benthic Foraminifera; Comments: LEPS, NUMMULITES

715.2 - 718.8 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 4% Porosity: Not Observed; Grain Type: Calcilutite, Intraclasts; Allochemical Constituents: 25%; Grain Size: Very Fine; Range: Lithographic to Fine; Unconsolidated; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive

718.8 - 724.2 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 6% Porosity: Intergranular, Not Observed; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 30%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive, Bioturbated; Accessory Minerals: Calcite - 01%, Dolomite - 02%; General Fossils: Benthic Foraminifera; Comments: LEPS

724.2 - 727 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 4% Porosity: Not Observed, Intergranular; Grain Type: Calcilutite, Intraclasts; Allochemical Constituents: 20%; Grain Size: Very Fine; Range: Lithographic to Fine; Unconsolidated; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Calcite - 01%; Other Features: Weathered; General Fossils: Benthic Foraminifera; Comments: LEPS

727 - 729 ft Calcilutite; Color: Very Light Orange (10YR 8/2); 3% Porosity: Not Observed; Grain Type: Calcilutite, Intraclasts; Allochemical Constituents: 15%; Grain Size: Very Fine; Range: Lithographic to Very Fine; Unconsolidated; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Other Features: Plastic

729 - 729.3 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 4% Porosity: Not Observed, Intergranular; Grain Type: Calcilutite, Intraclasts; Allochemical Constituents: 20%; Grain Size: Very Fine; Range: Lithographic to Very Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Other Features: Chalky; General Fossils: Mollusks, Fossil Molds

729.3 - 732 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 4% Porosity: Not Observed, Intergranular; Grain Type: Calcilutite, Intraclasts; Allochemical Constituents: 25%; Grain Size: Very Fine; Range: Lithographic to Fine; Unconsolidated; Cement Type: Calcilutite Matrix; Other Features: Weathered; General Fossils: Benthic Foraminifera; Comments: LEPS

732 - 734 ft Calcilutite; Color: Very Light Orange (10YR 8/2); 3% Porosity: Not Observed; Grain Type: Calcilutite, Intraclasts; Allochemical Constituents: 15%; Grain Size: Very Fine; Range: Lithographic to Very Fine; Unconsolidated; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Other Features: Plastic

734 - 735.5 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 8% Porosity: Moldic, Intergranular, Pinpoint; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 40%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive, Bioturbated; Accessory Minerals: Calcite - 01%, Dolomite - 01%; Other Features: Fossiliferous; General Fossils: Mollusks, Benthic Foraminifera, Fossil Molds; Comments: NUMMULITES

735.5 - 739 ft Calcilutite; Color: Very Light Orange (10YR 8/2); 3% Porosity: Not Observed; Grain Type: Calcilutite, Intraclasts; Allochemical Constituents: 15%; Grain Size: Very Fine; Range: Lithographic to Very Fine; Unconsolidated; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Other Features: Plastic

739 - 739.5 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 6% Porosity: Intergranular, Pinpoint; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 25%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive

739.5 - 740.5 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 5% Porosity: Intergranular, Not Observed; Grain Type: Calcilutite, Intraclasts; Allochemical Constituents: 20%; Grain Size: Fine; Range: Lithographic to Fine; Unconsolidated; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Other Features: Weathered

740.5 - 744 ft Calcilutite; Color: Very Light Orange (10YR 8/2); 3% Porosity: Not Observed; Grain Type: Calcilutite; Allochemical Constituents: 15%; Grain Size: Very Fine; Range: Lithographic to Very Fine; Unconsolidated; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive

744 - 744.3 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 4% Porosity: Not Observed, Pinpoint; Grain Type:

Calcilutite; Allochemical Constituents: 20%; Grain Size: Very Fine; Range: Lithographic to Very Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Calcite - 01%, Dolomite - 01%; Other Features: Chalky

744.3 - 745.5 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 6% Porosity: Not Observed, Intergranular; Grain Type: Calcilutite, Intraclasts; Allochemical Constituents: 25%; Grain Size: Very Fine; Range: Lithographic to Very Fine; Unconsolidated; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Other Features: Weathered

745.5 - 749 ft Calcilutite; Color: Very Light Orange (10YR 8/2); 3% Porosity: Not Observed; Grain Type: Calcilutite; Allochemical Constituents: 10%; Grain Size: Very Fine; Range: Lithographic to Very Fine; Unconsolidated; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Other Features: Plastic

749 - 749.5 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 4% Porosity: Not Observed, Pinpoint; Grain Type: Calcilutite; Allochemical Constituents: 30%; Grain Size: Very Fine; Range: Lithographic to Very Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive

749.5 - 750.8 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 4% Porosity: Not Observed, Intergranular; Grain Type: Calcilutite; Allochemical Constituents: 25%; Grain Size: Very Fine; Range: Lithographic to Fine; Unconsolidated; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Other Features: Weathered

750.8 - 754 ft Calcilutite; Color: Very Light Orange (10YR 8/2); 3% Porosity: Not Observed; Grain Type: Calcilutite; Allochemical Constituents: 10%; Grain Size: Very Fine; Range: Lithographic to Very Fine; Unconsolidated; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Other Features: Plastic

754 - 754.4 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 4% Porosity: Not Observed, Pinpoint; Grain Type: Calcilutite; Allochemical Constituents: 30%; Grain Size: Very Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive

754.4 - 758.2 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 4% Porosity: Not Observed, Intergranular; Grain Type: Calcilutite; Allochemical Constituents: 30%; Grain Size: Very Fine; Range: Lithographic to Fine; Unconsolidated; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Other Features: Weathered

758.2 - 758.6 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 4% Porosity: Not Observed, Pinpoint; Grain Type: Calcilutite; Allochemical Constituents: 30%; Grain Size: Very Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Calcite - 02%, Dolomite - 01%; General Fossils: Benthic Foraminifera; Comments: NUMMULITES

758.6 - 759 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 4% Porosity: Not Observed, Intergranular; Grain Type: Calcilutite; Allochemical Constituents: 30%; Grain Size: Very Fine; Range: Lithographic to Fine; Unconsolidated; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Other Features: Weathered

759 - 759.5 ft Calcarenite; Color: Yellowish Gray (5Y 7/2); 4% Porosity: Not Observed, Pinpoint; Grain Type: Calcilutite, Intraclasts; Allochemical Constituents: 40%; Grain Size: Very Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Dolomite - 02%; General Fossils: Benthic Foraminifera; Comments: NUMMULITES

759.5 - 760.5 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 4% Porosity: Not Observed, Intergranular; Grain Type: Calcilutite, Intraclasts; Allochemical Constituents: 40%; Grain Size: Very Fine; Range: Lithographic to Fine; Unconsolidated; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Dolomite - 03%; Other Features: Weathered; General Fossils: Benthic Foraminifera; Comments: NUMMULITES

760.5 - 763.8 ft Calcilutite; Color: Very Light Orange (10YR 8/2); 4% Porosity: Not Observed, Intergranular; Grain Type: Calcilutite, Intraclasts; Allochemical Constituents: 20%; Grain Size: Very Fine; Range: Lithographic to Very Fine; Unconsolidated; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Dolomite - 02%

763.8 - 765 ft Calcilutite; Color: Yellowish Gray (5Y 8/1); 6% Porosity: Pinpoint, Intergranular; Grain Type: Calcilutite, Intraclasts; Allochemical Constituents: 25%; Grain Size: Very Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Calcite - 01%, Dolomite - 03%; General Fossils: Benthic Foraminifera, Fossil Molds

765 - 768.8 ft Calcilutite; Color: Yellowish Gray (5Y 7/2); 2% Porosity: Not Observed; Grain Type: Calcilutite; Allochemical Constituents: 10%; Grain Size: Lithographic; Range: Lithographic to Very Fine; Unconsolidated; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Dolomite - 01%

768.8 - 769 ft Calcilutite; Color: Yellowish Gray (5Y 7/2); 2% Porosity: Not Observed; Grain Type: Calcilutite; Allochemical Constituents: 10%; Grain Size: Lithographic; Range: Lithographic to Very Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Dolomite - 01%

769 - 769.4 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 5% Porosity: Moldic, Intergranular; Grain Type: Calcilutite, Intraclasts; Allochemical Constituents: 20%; Grain Size: Very Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive, Bioturbated; Accessory Minerals: Calcite - 03%, Dolomite - 01%; General Fossils: Benthic Foraminifera, Mollusks

769.4 - 769.8 ft Calcilutite; Color: Yellowish Gray (5Y 7/2); 3% Porosity: Not Observed; Grain Type: Calcilutite; Allochemical Constituents: 10%; Grain Size: Lithographic; Range: Lithographic to Very Fine; Unconsolidated; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Dolomite - 01%

769.8 - 771.5 ft Calcarenite; Color: Yellowish Gray (5Y 7/2); 4% Porosity: Not Observed, Pinpoint; Grain Type: Calcilutite; Allochemical Constituents: 15%; Grain Size: Very Fine; Range: Lithographic to Very Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Dolomite - 01%; General Fossils: Echinoid; Comments: TOP OF AVON PARK? BLACK ORGANIC(?) UNIT IN FOSSIL MOLLUSK MOLD

771.5 - 772.3 ft Calcarenite; Color: Grayish Orange (10YR 7/4); 25% Porosity: Moldic, Vugular, Intergranular; Grain Type: Skeletal, Biogenic, Crystals; Allochemical Constituents: 40%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Bioturbated; Accessory Minerals: Calcite - 05%, Dolomite - 01%; Other Features: Medium Recrystallization, Fossiliferous; General Fossils: Mollusks, Echinoid, Coral; Comments: DALLI

772.3 - 776 ft Calcarenite; Color: Very Light Orange (10YR 8/2) to Yellowish Gray (5Y 7/2); 8% Porosity: Intergranular; Grain Type: Intraclasts; Allochemical Constituents: 15%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive, Mottled; Accessory Minerals: Dolomite - 02%; Other Features: Frosted, Coquina

776 - 778.3 ft Calcilutite; Color: Very Light Orange (10YR 8/2) to Light Greenish Yellow (10Y 8/2); 4% Porosity: Not Observed; Grain Type: Calcilutite; Allochemical Constituents: 10%; Grain Size: Lithographic; Range: Lithographic to Very Fine; Unconsolidated; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Dolomite - 01%

778.3 - 790 ft Calcarenite; Color: Very Light Orange (10YR 8/2) to Light Olive (10Y 6/2); 15% Porosity: Moldic, Vugular, Intergranular; Grain Type: Calcilutite, Intraclasts, Biogenic; Allochemical Constituents: 20%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive, Bioturbated; Accessory Minerals: Calcite - 04%, Dolomite - 02%; Other Features: Fossiliferous, Low Recrystallization; General Fossils: Mollusks, Echinoid, Fossil Molds; Comments: DALLI

790 - 796 ft Calcarenite; Color: Yellowish Gray (5Y 8/1) to Pinkish Gray (5YR 8/1); 4% Porosity: Intergranular, Pinpoint; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 10%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Accessory Minerals: Calcite - 01%, Phosphatic Sand - 01%; General Fossils: Mollusks, Fossil Fragments

796 - 799 ft Clay; Color: Yellowish Gray (5Y 8/1); 2% Porosity: Low Permeability; Grain Type: Intraclasts; Allochemical Constituents: 4%; Unconsolidated; Cement Type: Clay Matrix, Calcilutite Matrix; Accessory Minerals: Phosphatic Sand - %; Other Features: Calcareous

799 - 801.5 ft Dolostone; Color: Very Light Orange (10YR 8/2) to Grayish Brown (10YR 6/2); 4% Porosity: Intergranular, Pinpoint; Alteration: Medium (10-50%); Crystallinity: Anhedral; Grain Size: Very Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Dolomite, Calcilutite Matrix; Accessory Minerals: Anhydrite - 01%, Calcite - 01%, Phosphatic Sand - 01%; Other Features: Fossiliferous; General Fossils: Fossil Fragments, Fossil Molds, Mollusks

801.5 - 804 ft Calcilutite; Color: Yellowish Gray (5Y 8/1); 8% Porosity: Intergranular, Pinpoint; Grain Type: Calcilutite; Allochemical Constituents: 5%; Grain Size: Very Fine; Range: Lithographic to Very Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Accessory Minerals: Calcite - 02%, Phosphatic Sand - %; General Fossils: Mollusks, Fossil Fragments, Fossil Molds, Echinoid

804 - 807 ft Dolostone; Color: Very Light Orange (10YR 8/2) to Grayish Brown (10YR 6/2); 15% Porosity: Intergranular, Vugular, Possibly High Permeablity; Alteration: Medium (10-50%); Crystallinity: Anhedral; Grain Size: Very Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Dolomite, Calcilutite Matrix; Sedimentary Structures: Bioturbated; Accessory Minerals: Calcite - 05%, Phosphatic Sand - 01%; Other Features: Fossiliferous, Medium Recrystallization; General Fossils: Fossil Fragments, Fossil Molds, Mollusks, Echinoid

807 - 810 ft Dolostone; Color: Very Light Orange (10YR 8/2) to Grayish Brown (10YR 6/2); 8% Porosity: Intergranular, Pinpoint; Alteration: Medium (10-50%); Crystallinity: Anhedral; Grain Size: Very Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Dolomite, Calcilutite Matrix; Accessory Minerals: Calcite - 03%, Phosphatic Sand - %; Other Features: Medium Recrystallization; General Fossils: Mollusks, Fossil Fragments

810 - 816.5 ft Calcarenite; Color: White (N9) to Yellowish Gray (5Y 8/1); 15% Porosity: Intergranular; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 20%; Grain Size: Lithographic; Range: Lithographic to Very Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Fissile, Bedded; Accessory Minerals: Clay - 05%, Phosphatic Sand - 02%; Other Features: Weathered; Comments: GREENISH-GRAY CLAY LENSE @ ABOUT 813' - 1/2" THICK. FOSSIL FORAM-COSKOLINA FLORADANA - AVON PARK INDEX FOSSIL. INTERBEDDED STRINGERS OF CALCAREOUS CLAY

816.5 - 819 ft Calcarenite; Color: Yellowish Gray (5Y 8/1) to Pinkish Gray (5YR 8/1); 15% Porosity: Intergranular, Vugular; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 40%; Grain Size: Very Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Fissile, Bedded; Accessory Minerals: Phosphatic Sand - 01%; Other Features: Weathered, Fossiliferous; General Fossils: Fossil Fragments, Fossil Molds, Mollusks

819 - 823 ft Dolostone; Color: Very Light Orange (10YR 8/2) to Yellowish Gray (5Y 8/1); 15% Porosity: Intergranular, Vugular, Possibly High Permeablity; Alteration: Medium (10-50%); Crystallinity: Anhedral; Grain Size: Very Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix, Dolomite; Sedimentary Structures: Bedded; Accessory Minerals: Calcite - 05%, Phosphatic Gravel - 01%, Phosphatic Sand - 01%; Other Features: Medium Recrystallization, Fossiliferous; General Fossils: Fossil Fragments, Fossil Molds, Mollusks

823 - 828 ft Calcarenite; Color: Yellowish Gray (5Y 8/1) to White (N9); 6% Porosity: Intergranular, Pinpoint; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 20%; Grain Size: Lithographic; Range: Lithographic to Very Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Bedded; Accessory Minerals: Calcite - 03%, Phosphatic Sand - 02%; Other Features: Weathered; General Fossils: Fossil Fragments, Fossil Molds, Mollusks

828 - 828.8 ft Limestone; Color: Yellowish Gray (5Y 8/1); 2% Porosity: Low Permeability; Grain Type: Intraclasts; Allochemical Constituents: 50%; Grain Size: Very Fine; Range: Lithographic to Fine; Poor Induration; Cement Type: Clay Matrix, Calcilutite Matrix; Other Features: Calcareous; General Fossils: No Fossils

828.8 - 834.5 ft Dolostone; Color: Very Light Orange (10YR 8/2) to Grayish Brown (10YR 6/2); 6% Porosity: Intergranular, Pinpoint, Vugular; Alteration: Highly (50-90%); Crystallinity: Anhedral; Grain Size: Fine; Range: Lithographic to Fine; Good

Induration; Cement Type: Dolomite, Calcilutite Matrix; Sedimentary Structures: Bedded; Accessory Minerals: Phosphatic Gravel - 02%, Phosphatic Sand - 02%, Pyrite - 01%, Quartz Sand - %; General Fossils: Fossil Fragments, Fossil Molds; Comments: PHOSPHATIC GRAVEL SIZE MODES SCATTERED--MORE BEDDED LOWER PORTION. LOWER PORTION MORE BEDDED EVIDENCED BY FREQUENT WASHOFFS. 3-INCH THICK CALCILUTITE STRINGER AT 833' BLS. WORM-LIKE TUBE FOSSILS-FRAGMENTS?

834.5 - 844 ft Calcarenite; Color: Yellowish Gray (5Y 8/1); 2% Porosity: Low Permeability; Grain Type: Intraclasts; Allochemical Constituents: 50%; Grain Size: Fine; Range: Lithographic to Fine; Poor Induration; Cement Type: Clay Matrix; Sedimentary Structures: Bedded; Accessory Minerals: Clay - 50%, Phosphatic Sand - 01%, Pyrite - %; Other Features: Calcareous, Weathered; General Fossils: No Fossils; Comments: DOLOMITE-STRINGERS BETWEEN 839-841 - HEAVY WASHOUT OF CLAYEY LIMESTONE INTERBEDDED NEAR TOP OF RUN

844 - 846 ft Dolostone; Color: Very Light Orange (10YR 8/2) to Grayish Brown (10YR 6/2); 6% Porosity: Intergranular, Pinpoint; Alteration: Highly (50-90%); Crystallinity: Subhedral; Grain Size: Fine; Range: Lithographic to Fine; Good Induration; Cement Type: Dolomite, Calcilutite Matrix; Sedimentary Structures: Bedded; Accessory Minerals: Anhydrite - 01%, Phosphatic Gravel - 01%, Phosphatic Sand - 01%; Other Features: Weathered; General Fossils: No Fossils

846 - 847 ft Calcarenite; Color: Yellowish Gray (5Y 8/1); 2% Porosity: Low Permeability; Grain Type: Intraclasts; Allochemical Constituents: 50%; Grain Size: Fine; Range: Lithographic to Fine; Poor Induration; Cement Type: Clay Matrix; Accessory Minerals: Clay - 50%, Phosphatic Gravel - 01%, Phosphatic Sand - 01%; Other Features: Calcareous, Weathered; General Fossils: No Fossils

847 - 850 ft Dolostone; Color: Very Light Orange (10YR 8/2) to Grayish Brown (10YR 6/2); 4% Porosity: Intergranular, Pinpoint, Fracture; Alteration: Medium (10-50%); Crystallinity: Anhedral; Grain Size: Lithographic; Range: Lithographic to Very Fine; Moderate Induration; Cement Type: Calcilutite Matrix, Dolomite; Sedimentary Structures: Interbedded; Accessory Minerals: Clay - 05%, Phosphatic Sand - 02%; General Fossils: No Fossils; Comments: INTERBEDDED STREAKS OF PHOSPHATIC SANDS, CLAY, AND POSSIBLE ORGANICS

850 - 852 ft Calcilutite; Color: Yellowish Gray (5Y 8/1); 4% Porosity: Low Permeability; Alteration: Low (0-10%); Crystallinity: Anhedral; Unconsolidated; Cement Type: Clay Matrix, Calcilutite Matrix; Other Features: Calcareous, Muddy, Weathered; General Fossils: Echinoid, Mollusks; Comments: CALCAREOUS LIME-MUD

852 - 853 ft Dolostone; Color: Very Light Orange (10YR 8/2) to Grayish Brown (10YR 6/2); 6% Porosity: Intergranular, Pinpoint, Vugular; Alteration: Low (0-10%); Crystallinity: Anhedral; Grain Size: Lithographic; Range: Lithographic to Very Fine; Moderate Induration; Cement Type: Calcilutite Matrix, Dolomite; Sedimentary Structures: Interbedded; Accessory Minerals: Clay - 05%, Phosphatic Sand - 02%; General Fossils: No Fossils; Comments: VERY SIMILAR TO 847-855 EXCEPT LARGER VUGS - HIGHER POROSITY

853 - 854 ft Calcilutite; Color: Yellowish Gray (5Y 8/1); Porosity: Low Permeability; Unconsolidated; Cement Type: Clay Matrix, Calcilutite Matrix; Accessory Minerals: Phosphatic Sand - 01%; Other Features: Calcareous, Muddy, Weathered; General Fossils: No Fossils; Comments: SIMILAR TO 852-853 EXCEPT SOME PHOSPHATIC SAND

854 - 854.2 ft Dolostone; Color: Very Light Orange (10YR 8/2) to Yellowish Gray (5Y 8/1); 4% Porosity: Intergranular; Alteration: Medium (10-50%); Crystallinity: Anhedral; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Accessory Minerals: Calcilutite - 20%; Other Features: Calcareous, Weathered

854.2 - 854.4 ft Clay; Color: Very Light Orange (10YR 8/2); 2% Porosity: Not Observed; Unconsolidated; Cement Type: Clay Matrix; Accessory Minerals: Dolomite - 15%; Other Features: Plastic, Weathered

854.4 - 859 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 4% Porosity: Pinpoint, Intergranular; Grain Type: Intraclasts; Allochemical Constituents: 40%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Dolomite - 30%; Other Features: Dolomitic; General Fossils: Benthic Foraminifera

859 - 863.8 ft Calcarenite; Color: Yellowish Gray (5Y 7/2); 5% Porosity: Pinpoint, Intergranular; Grain Type: Intraclasts; Allochemical Constituents: 50%; Grain Size: Fine; Range: Lithographic to Fine; Poor Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive, Interbedded; Accessory Minerals: Dolomite - 25%; Other Features: Granular, Dolomitic

863.8 - 864.3 ft Calcarenite; Color: Grayish Orange (10YR 7/4) to Very Light Orange (10YR 8/2); 4% Porosity: Pinpoint, Intergranular; Grain Type: Intraclasts; Allochemical Constituents: 50%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Dolomite - 25%; Other Features: Dolomitic, Granular

864.3 - 864.8 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 4% Porosity: Pinpoint, Intergranular; Grain Type: Intraclasts; Allochemical Constituents: 40%; Grain Size: Fine; Range: Lithographic to Fine; Poor Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Dolomite - 10%; Other Features: Dolomitic, Granular

864.8 - 869 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 10% Porosity: Pinpoint, Intergranular, Moldic; Grain Type: Intraclasts; Allochemical Constituents: 60%; Grain Size: Medium; Range: Lithographic to Medium; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive, Laminated; Accessory Minerals: Dolomite - 10%; Other Features: Dolomitic, Granular; General Fossils: Miliolids, Mollusks

869 - 875.5 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 3% Porosity: Not Observed; Grain Type: Intraclasts; Allochemical Constituents: 20%; Grain Size: Lithographic; Range: Lithographic to Fine; Poor Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Dolomite - 03%; Other Features: Weathered, Dolomitic

875.5 - 876 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 5% Porosity: Pinpoint, Intergranular; Grain Type: Intraclasts; Allochemical Constituents: 40%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Dolomite - 15%; Other Features: Dolomitic

876 - 876.5 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 4% Porosity: Intergranular; Grain Type: Intraclasts; Allochemical Constituents: 40%; Grain Size: Fine; Range: Lithographic to Fine; Poor Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Dolomite - 10%; Other Features: Dolomitic, Weathered

876.5 - 879.4 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 2% Porosity: Not Observed; Grain Type: Intraclasts; Allochemical Constituents: 15%; Grain Size: Lithographic; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive, Laminated; Accessory Minerals: Dolomite - 04%, Pyrite - 02%; Other Features: Chalky

879.4 - 891 ft Calcarenite; Color: Very Light Orange (10YR 8/2) to Grayish Brown (10YR 6/2); 3% Porosity: Not Observed, Intergranular; Grain Type: Intraclasts; Allochemical Constituents: 20%; Grain Size: Fine; Range: Lithographic to Fine; Poor Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive, Laminated, Mottled; Accessory Minerals: Dolomite - 10%, Pyrite - 01%; Other Features: Variegated, Weathered

891 - 894.5 ft Calcarenite; Color: Very Light Orange (10YR 8/2) to Grayish Brown (10YR 6/2); 4% Porosity: Intergranular; Grain Type: Intraclasts; Allochemical Constituents: 30%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive, Laminated; Accessory Minerals: Dolomite - 10%; Other Features: Variegated

894.5 - 900.5 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 6% Porosity: Intergranular; Grain Type: Intraclasts; Allochemical Constituents: 40%; Grain Size: Fine; Range: Lithographic to Fine; Poor Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Dolomite - 05%; Other Features: Weathered

900.5 - 904 ft Calcilutite; Color: Very Light Orange (10YR 8/2); 2% Porosity: Not Observed; Grain Type: Intraclasts; Allochemical Constituents: 15%; Grain Size: Lithographic; Range: Lithographic to Fine; Poor Induration; Cement Type:

Calcilutite Matrix; Sedimentary Structures: Massive

904 - 904.4 ft Calcarenite; Color: Very Light Orange (10YR 8/2) to Grayish Brown (10YR 6/2); 4% Porosity: Intergranular, Pinpoint; Grain Type: Intraclasts; Allochemical Constituents: 20%; Grain Size: Lithographic; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Laminated; Accessory Minerals: Dolomite - 10%

904.4 - 908 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 4% Porosity: Intergranular; Grain Type: Intraclasts; Allochemical Constituents: 25%; Grain Size: Fine; Range: Lithographic to Fine; Poor Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Dolomite - 04%; Other Features: Weathered; General Fossils: Miliolids

908 - 909.5 ft Calcarenite; Color: Very Light Orange (10YR 8/2) to Grayish Brown (10YR 6/2); 6% Porosity: Intergranular; Grain Type: Intraclasts; Allochemical Constituents: 30%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Dolomite - 04%; General Fossils: Miliolids

909.5 - 911.2 ft Calcilutite; Color: Very Light Orange (10YR 8/2); 2% Porosity: Not Observed; Grain Type: Intraclasts; Allochemical Constituents: 15%; Grain Size: Lithographic; Range: Lithographic to Fine; Poor Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive

911.2 - 911.7 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 15% Porosity: Moldic, Intergranular, Vugular; Grain Type: Intraclasts, Biogenic; Allochemical Constituents: 50%; Grain Size: Fine; Range: Lithographic to Medium; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Bioturbated, Massive; Accessory Minerals: Calcite - 15%, Dolomite - 05%, Organics - 02%; Other Features: Low Recrystallization; General Fossils: Echinoid, Mollusks, Coral, Miliolids; Comments: DALLI

911.7 - 918.8 ft Calcarenite; Color: Very Light Orange (10YR 8/2) to Grayish Brown (10YR 6/2); 5% Porosity: Pinpoint, Intergranular; Grain Type: Intraclasts; Allochemical Constituents: 20%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive, Mottled; Accessory Minerals: Calcite - 05%, Dolomite - 08%; Other Features: Variegated

918.8 - 929.8 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 10% Porosity: Pinpoint, Intergranular, Moldic; Grain Type: Intraclasts, Biogenic; Allochemical Constituents: 40%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Calcite - 05%, Dolomite - 12%; Other Features: Dolomitic, Low Recrystallization, Granular; General Fossils: Mollusks

929.8 - 930.6 ft Clay; Color: Yellowish Gray (5Y 8/1); Porosity: Not Observed; Poor Induration; Cement Type: Clay Matrix, Calcilutite Matrix; Sedimentary Structures: Massive; Comments: CLAY; SMELLED BAD

930.6 - 933.6 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 5% Porosity: Pinpoint, Intergranular; Grain Type: Intraclasts; Allochemical Constituents: 50%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Calcite - 03%, Dolomite - 10%; Other Features: Dolomitic, Granular

933.6 - 934.5 ft Calcarenite; Color: Very Light Orange (10YR 8/2) to Yellowish Gray (5Y 8/1); 5% Porosity: Pinpoint, Intergranular, Fracture; Grain Type: Intraclasts; Allochemical Constituents: 50%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Laminated, Mottled; Accessory Minerals: Calcilutite - 08%, Dolomite - 20%; Other Features: Variegated

934.5 - 938.7 ft Clay; Color: Very Light Orange (10YR 8/2); Porosity: Not Observed; Poor Induration; Cement Type: Clay Matrix, Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Calcarenite - 10%; Comments: SMELLED BAD

938.7 - 939 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 3% Porosity: Pinpoint, Intergranular, Moldic; Grain Type: Intraclasts; Allochemical Constituents: 30%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Dolomite - 01%

939 - 939.1 ft Calcarenite; Color: Very Light Orange (10YR 8/2) to White (N9); 3% Porosity: Pinpoint, Intergranular; Grain Type: Intraclasts; Allochemical Constituents: 20%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix, Dolomite; Sedimentary Structures: Mottled, Nodular; Accessory Minerals: Dolomite - 50%; Other Features: Dolomitic

939.1 - 943 ft Clay; Color: Very Light Orange (10YR 8/2); Porosity: Not Observed; Poor Induration; Cement Type: Clay Matrix, Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Calcarenite - 10%; Comments: BAD SMELL

943 - 944.6 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 3% Porosity: Pinpoint, Intergranular; Grain Type: Intraclasts; Allochemical Constituents: 30%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Dolomite - 02%

944.6 - 949 ft Clay; Color: Very Light Orange (10YR 8/2); Porosity: Not Observed; Poor Induration; Cement Type: Clay Matrix, Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Calcarenite - 10%

949 - 950 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 3% Porosity: Pinpoint, Intergranular; Grain Type: Intraclasts; Allochemical Constituents: 30%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive, Laminated; Accessory Minerals: Dolomite - 05%

950 - 950.8 ft Clay; Color: Very Light Orange (10YR 8/2); Porosity: Not Observed; Poor Induration; Cement Type: Clay Matrix, Calcilutite Matrix; Sedimentary Structures: Massive

950.8 - 952 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 3% Porosity: Pinpoint, Intergranular; Grain Type: Intraclasts; Allochemical Constituents: 30%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Dolomite - 01%

952 - 954 ft Clay; Color: Very Light Orange (10YR 8/2); Porosity: Not Observed; Poor Induration; Cement Type: Clay Matrix, Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Calcarenite - 10%

954 - 955 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 8% Porosity: Pinpoint, Fracture, Intergranular; Grain Type: Intraclasts; Allochemical Constituents: 20%; Grain Size: Lithographic; Range: Lithographic to Fine; Poor Induration; Cement Type: Calcilutite Matrix

955 - 959.6 ft Dolostone; Color: Yellowish Gray (5Y 7/2); 5% Porosity: Pinpoint, Intergranular, Fracture; Alteration: Medium (10-50%); Crystallinity: Euhedral; Grain Size: Lithographic; Range: Lithographic to Fine; Good Induration; Cement Type: Dolomite; Sedimentary Structures: Mottled, Streaked; Other Features: Medium Recrystallization; General Fossils: Echinoid

959.6 - 961.4 ft Calcarenite; Color: Yellowish Gray (5Y 7/2) to Very Light Orange (10YR 8/2); Porosity: Not Observed; Grain Type: Calcilutite, Intraclasts; Allochemical Constituents: 60%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Mottled, Laminated; Accessory Minerals: Dolomite - 40%; Other Features: Dolomitic, Granular

961.4 - 961.9 ft Calcarenite; Color: Yellowish Gray (5Y 7/2) to Very Light Orange (10YR 8/2); Porosity: Not Observed; Grain Type: Calcilutite, Intraclasts; Allochemical Constituents: 50%; Grain Size: Fine; Range: Lithographic to Fine; Unconsolidated; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Dolomite - 40%; Other Features: Dolomitic, Granular

961.9 - 965 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 2% Porosity: Pinpoint, Intergranular; Grain Type:

Calcilutite, Intraclasts; Allochemical Constituents: 50%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive, Laminated; Accessory Minerals: Calcite - 10%, Dolomite - 40%; Other Features: Dolomitic, Granular

965 - 966.5 ft Calcarenite; Color: Very Light Orange (10YR 8/2) to Yellowish Gray (5Y 7/2); 3% Porosity: Pinpoint, Intergranular; Grain Type: Calcilutite, Intraclasts; Allochemical Constituents: 40%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Laminated, Interbedded, Mottled; Accessory Minerals: Calcite - 15%, Dolomite - 20%; Other Features: Variegated, Dolomitic

966.5 - 969.2 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 4% Porosity: Pinpoint, Intergranular; Grain Type: Calcilutite, Intraclasts; Allochemical Constituents: 30%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Calcite - 02%, Dolomite - 15%; Other Features: Dolomitic

969.2 - 970 ft Calcilutite; Color: Very Light Orange (10YR 8/2); Porosity: Not Observed; Grain Type: Calcilutite; Allochemical Constituents: 15%; Grain Size: Lithographic; Range: Lithographic to Very Fine; Unconsolidated; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Dolomite - 02%

970 - 974.4 ft Calcarenite; Color: White (N9) to Moderate Light Gray (N6); 2% Porosity: Pinpoint, Intergranular; Grain Type: Calcilutite, Intraclasts; Allochemical Constituents: 20%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Mottled, Massive; Accessory Minerals: Dolomite - 20%; Other Features: Chalky

974.4 - 975.9 ft Calcarenite; Color: Very Light Orange (10YR 8/2); Porosity: Not Observed; Grain Type: Calcilutite, Intraclasts; Allochemical Constituents: 20%; Grain Size: Lithographic; Range: Lithographic to Fine; Unconsolidated; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Dolomite - 05%

975.9 - 980.5 ft Calcarenite; Color: Yellowish Gray (5Y 7/2) to Very Light Orange (10YR 8/2); 8% Porosity: Intergranular, Vugular; Grain Type: Calcilutite, Intraclasts; Allochemical Constituents: 40%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive, Mottled; Accessory Minerals: Calcite - 10%, Dolomite - 20%; Other Features: Medium Recrystallization; General Fossils: Echinoid; Comments: DALLI

980.5 - 981.5 ft Calcarenite; Color: Very Light Orange (10YR 8/2); Porosity: Not Observed; Grain Type: Calcilutite; Allochemical Constituents: 30%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Dolomite - 20%; Other Features: Granular

981.5 - 982.9 ft Calcarenite; Color: Yellowish Gray (5Y 7/2) to Very Light Orange (10YR 8/2); 4% Porosity: Intergranular; Grain Type: Calcilutite, Intraclasts; Allochemical Constituents: 40%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Laminated, Mottled; Accessory Minerals: Calcite - 10%, Dolomite - 20%

982.9 - 984.6 ft Calcarenite; Color: White (N9); Porosity: Not Observed; Grain Type: Calcilutite; Allochemical Constituents: 20%; Grain Size: Lithographic; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Laminated, Mottled; Accessory Minerals: Dolomite - 10%; Other Features: Chalky

984.6 - 986.8 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 4% Porosity: Intergranular; Grain Type: Calcilutite, Intraclasts; Allochemical Constituents: 50%; Grain Size: Fine; Range: Lithographic to Fine; Unconsolidated; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Dolomite - 05%, Organics - 01%; Other Features: Granular, Weathered

986.8 - 989 ft Calcilutite; Color: Very Light Orange (10YR 8/2); Porosity: Not Observed; Grain Type: Calcilutite, Intraclasts; Allochemical Constituents: 20%; Grain Size: Lithographic; Range: Lithographic to Fine; Unconsolidated; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Dolomite - 02%, Organics - 02%; Other Features: Weathered, Granular; Comments: BAD SMELL

989 - 991.4 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 4% Porosity: Intergranular, Pinpoint; Grain Type: Calcilutite, Intraclasts; Allochemical Constituents: 30%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive, Laminated, Mottled; Accessory Minerals: Calcite - 02%, Dolomite - 04%, Organics - 01%

991.4 - 991.6 ft Calcarenite; Color: Very Light Orange (10YR 8/2) to Grayish Brown (5YR 3/2); 4% Porosity: Intergranular; Grain Type: Calcilutite, Intraclasts; Allochemical Constituents: 40%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Laminated, Bedded; Accessory Minerals: Dolomite - 01%, Organics - 15%

991.6 - 991.9 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 4% Porosity: Intergranular, Pinpoint; Grain Type: Calcilutite, Intraclasts; Allochemical Constituents: 40%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Dolomite - 02%

991.9 - 992.1 ft Calcilutite; Color: Very Light Orange (10YR 8/2); Porosity: Not Observed; Grain Type: Calcilutite; Allochemical Constituents: 10%; Grain Size: Lithographic; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive

992.1 - 992.3 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 4% Porosity: Intergranular, Pinpoint; Grain Type: Calcilutite, Intraclasts; Allochemical Constituents: 40%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Dolomite - 02%

992.3 - 992.8 ft Calcilutite; Color: Yellowish Gray (5Y 7/2); Porosity: Not Observed; Grain Type: Calcilutite; Allochemical Constituents: 10%; Grain Size: Lithographic; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive, Laminated

992.8 - 994.5 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 4% Porosity: Intergranular, Pinpoint; Grain Type: Calcilutite, Intraclasts; Allochemical Constituents: 40%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Laminated; Accessory Minerals: Calcite - 01%, Dolomite - 03%

994.5 - 997 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 8% Porosity: Intergranular; Grain Type: Calcilutite, Intraclasts; Allochemical Constituents: 60%; Grain Size: Fine; Range: Lithographic to Fine; Unconsolidated; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Calcite - 02%, Dolomite - 03%; Other Features: Weathered, Granular; General Fossils: Fossil Fragments

997 - 1004 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 8% Porosity: Intergranular, Pinpoint, Vugular; Grain Type: Calcilutite, Intraclasts; Allochemical Constituents: 60%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive, Mottled; Accessory Minerals: Calcite - 02%, Dolomite - 03%; Other Features: Weathered, Granular; General Fossils: Fossil Fragments

1004 - 1004.4 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 4% Porosity: Intergranular, Pinpoint; Grain Type: Calcilutite, Intraclasts; Allochemical Constituents: 70%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Calcite - 01%, Dolomite - 02%, Organics - 01%; Other Features: Granular

1004.4 - 1005.1 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 5% Porosity: Intergranular; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 60%; Grain Size: Fine; Range: Lithographic to Fine; Poor Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Calcite - 01%, Dolomite - 02%; Other Features: Granular, Weathered

1005.1 - 1007.3 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 3% Porosity: Intergranular, Pinpoint; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 40%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Calcite - 02%, Dolomite - 02%; Other Features: Granular

1007.3 - 1009.2 ft Calcarenite; Color: Very Light Orange (10YR 8/2) to Light Bluish Gray (5B 7/1); 3% Porosity: Intergranular, Pinpoint; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 40%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive, Mottled, Nodular; Accessory Minerals: Calcite - 05%, Dolomite - 04%; Other Features: Granular

1009.2 - 1009.6 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 3% Porosity: Intergranular; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 40%; Grain Size: Fine; Range: Lithographic to Fine; Poor Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Calcite - 02%, Dolomite - 02%; Other Features: Granular

1009.6 - 1010.6 ft Calcilutite; Color: Very Light Orange (10YR 8/2); Porosity: Not Observed; Grain Type: Calcilutite, Intraclasts; Allochemical Constituents: 15%; Grain Size: Lithographic; Range: Lithographic to Fine; Unconsolidated; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive

1010.6 - 1011.1 ft Calcarenite; Color: Very Light Orange (10YR 8/2) to Moderate Gray (N5); 5% Porosity: Intergranular, Pinpoint; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 25%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Laminated, Bedded; Accessory Minerals: Organics - 10%

1011.1 - 1014.9 ft Calcilutite; Color: Very Light Orange (10YR 8/2); Porosity: Not Observed; Grain Type: Calcilutite; Allochemical Constituents: 5%; Grain Size: Lithographic; Range: Lithographic to Very Fine; Good Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive

1014.9 - 1016.3 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 3% Porosity: Intergranular, Pinpoint; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 30%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Dolomite - 08%; Other Features: Granular

1016.3 - 1016.9 ft Calcarenite; Color: Light Gray (N7) to Very Light Orange (10YR 8/2); 6% Porosity: Intergranular, Pinpoint, Moldic; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 30%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Laminated, Cross Bedded, Mottled; Accessory Minerals: Dolomite - 03%; General Fossils: Benthic Foraminifera

1016.9 - 1018.6 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 3% Porosity: Intergranular, Pinpoint; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 40%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Calcite - 02%, Dolomite - 05%; Other Features: Granular

1018.6 - 1024 ft Calcarenite; Color: Light Gray (N7) to Very Light Orange (10YR 8/2); 6% Porosity: Intergranular, Pinpoint, Fracture; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 50%; Grain Size: Fine; Range: Lithographic to Granule (2-4 mm); Poor Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive, Mottled; Accessory Minerals: Calcite - 05%, Dolomite - 10%; Other Features: Granular

1024 - 1024.7 ft Calcarenite; Color: Grayish Orange (10YR 7/4); 10% Porosity: Intergranular, Pinpoint; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 50%; Grain Size: Fine; Range: Lithographic to Granule (2-4 mm); Good Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Calcite - 05%, Dolomite - 10%; Other Features: Granular

1024.7 - 1024.9 ft Calcarenite; Color: Grayish Orange (10YR 7/4) to Very Light Orange (10YR 8/2); 5% Porosity: Intergranular, Pinpoint; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 40%; Grain Size: Fine; Range: Lithographic to Fine; Good Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Mottled, Laminated; Accessory Minerals: Calcite - 15%, Dolomite - 10%, Organics - 05%

1024.9 - 1025.1 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 8% Porosity: Intergranular, Pinpoint, Vugular; Grain

Type: Intraclasts, Calcilutite; Allochemical Constituents: 40%; Grain Size: Fine; Range: Lithographic to Granule (2-4 mm); Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Laminated, Mottled; Accessory Minerals: Organics - 01%

1025.1 - 1026.1 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 5% Porosity: Intergranular, Pinpoint; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 70%; Grain Size: Fine; Range: Lithographic to Granule (2-4 mm); Good Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Mottled, Nodular; Accessory Minerals: Dolomite - 02%; Other Features: Granular, Sucrosic

1026.1 - 1028.5 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 3% Porosity: Intergranular, Pinpoint; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 40%; Grain Size: Fine; Range: Lithographic to Fine; Good Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive, Nodular; Accessory Minerals: Dolomite - 10%; Other Features: Granular

1028.5 - 1029 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 5% Porosity: Intergranular, Pinpoint; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 60%; Grain Size: Fine; Range: Lithographic to Granule (2-4 mm); Good Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive, Nodular; Accessory Minerals: Dolomite - 20%; Other Features: Dolomitic, Granular

1029 - 1030 ft Calcarenite; Color: Yellowish Gray (5Y 7/2); 2% Porosity: Intergranular, Pinpoint; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 30%; Grain Size: Fine; Range: Lithographic to Fine; Good Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Dolomite - 30%; Other Features: Partings

1030 - 1034.2 ft Calcarenite; Color: Very Light Orange (10YR 8/2) to Yellowish Gray (5Y 7/2); 5% Porosity: Intergranular, Pinpoint; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 50%; Grain Size: Fine; Range: Lithographic to Granule (2-4 mm); Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Mottled, Nodular; Accessory Minerals: Dolomite - 25%, Organics - 10%; Other Features: Granular

1034.2 - 1035.7 ft Calcarenite; Color: Very Light Orange (10YR 8/2) to Yellowish Gray (5Y 7/2); 8% Porosity: Intergranular, Pinpoint; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 70%; Grain Size: Fine; Range: Lithographic to Granule (2-4 mm); Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Mottled, Nodular; Accessory Minerals: Calcite - 15%, Dolomite - 20%; Other Features: Granular

1035.7 - 1036.7 ft Calcarenite; Color: Grayish Orange (10YR 7/4); 8% Porosity: Intergranular, Pinpoint; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 60%; Grain Size: Fine; Range: Lithographic to Granule (2-4 mm); Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive, Mottled, Nodular; Accessory Minerals: Calcite - 10%, Dolomite - 10%; Other Features: Dolomitic, Granular

1036.7 - 1037.2 ft Calcarenite; Color: Grayish Orange (10YR 7/4) to Very Light Orange (10YR 8/2); 10% Porosity: Intergranular, Pinpoint, Vugular; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 50%; Grain Size: Fine; Range: Lithographic to Granule (2-4 mm); Poor Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Mottled, Nodular; Accessory Minerals: Calcite - 10%, Dolomite - 10%; Other Features: Dolomitic, Granular; Comments: CLASTS OF CALCARENITE IN DARKER CALCARENITE

1037.2 - 1040 ft Calcarenite; Color: Grayish Orange (10YR 7/4) to Very Light Orange (10YR 8/2); 15% Porosity: Intergranular, Pinpoint, Vugular; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 50%; Grain Size: Fine; Range: Lithographic to Granule (2-4 mm); Poor Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Mottled, Nodular; Accessory Minerals: Calcite - 10%, Dolomite - 10%; Other Features: Dolomitic, Granular

1040 - 1044.5 ft Calcarenite; Color: Yellowish Gray (5Y 7/2); 4% Porosity: Intergranular, Pinpoint; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 40%; Grain Size: Fine; Range: Lithographic to Fine; Good Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Calcite - 10%, Dolomite - 05%; Other Features: Speckled; General Fossils: Benthic Foraminifera; Comments: NUMMULITES

1044.5 - 1049.3 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 10% Porosity: Intergranular, Pinpoint; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 80%; Grain Size: Medium; Range: Lithographic to Granule (2-4 mm); Good Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Calcite - 15%, Dolomite - 15%; Other Features: Speckled, Granular; General Fossils: Benthic Foraminifera; Comments: NUMMULITES

1049.3 - 1050.3 ft Calcarenite; Color: Grayish Olive Green (5GY 3/2); 10% Porosity: Intergranular, Pinpoint; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 80%; Grain Size: Medium; Range: Lithographic to Granule (2-4 mm); Moderate Induration; Cement Type: Calcilutite Matrix, Dolomite; Sedimentary Structures: Massive; Accessory Minerals: Calcite - 15%, Dolomite - 05%; Other Features: Speckled, Dolomitic, Granular; General Fossils: Benthic Foraminifera; Comments: NUMMULITES

1050.3 - 1051.3 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 3% Porosity: Intergranular, Pinpoint; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 60%; Grain Size: Fine; Range: Lithographic to Medium; Moderate Induration; Cement Type: Calcilutite Matrix, Dolomite; Sedimentary Structures: Massive; Accessory Minerals: Calcite - 15%, Dolomite - 05%; Other Features: Speckled; General Fossils: Benthic Foraminifera; Comments: NUMMULITES

1051.3 - 1052.2 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 3% Porosity: Intergranular, Pinpoint; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 40%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive, Mottled, Nodular; Accessory Minerals: Calcite - 05%, Dolomite - 05%; General Fossils: Benthic Foraminifera; Comments: NUMMULITES

1052.2 - 1053.2 ft Calcarenite; Color: Light Gray (N7); 3% Porosity: Intergranular, Not Observed; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 20%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive, Laminated; Accessory Minerals: Calcite - 05%, Dolomite - 05%

1053.2 - 1058.2 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 8% Porosity: Intergranular, Pinpoint; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 30%; Grain Size: Fine; Range: Lithographic to Fine; Good Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Other Features: Low Recrystallization

1058.2 - 1058.8 ft Calcarenite; Color: Olive Gray (5Y 3/2) to Very Light Orange (10YR 8/2); 4% Porosity: Intergranular, Pinpoint; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 30%; Grain Size: Fine; Range: Lithographic to Fine; Good Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Mottled, Nodular; Accessory Minerals: Calcite - 20%, Dolomite - 40%; Other Features: Dolomitic; Comments: BROWN MATRIX WITH LIGHT CALCARENITE FRAGS. DS-LS MIX?

1058.8 - 1059.2 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 4% Porosity: Intergranular; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 20%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Dolomite - 05%

1059.2 - 1059.4 ft Calcarenite; Color: Moderate Yellowish Brown (10YR 5/4) to Very Light Orange (10YR 8/2); 4% Porosity: Intergranular, Pinpoint; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 30%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Mottled, Nodular; Accessory Minerals: Calcite - 20%, Dolomite - 40%; Other Features: Dolomitic

1059.4 - 1062.3 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 5% Porosity: Intergranular, Pinpoint; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 40%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Calcite - 02%, Dolomite - 02%; Other Features: Granular; General Fossils: Benthic Foraminifera; Comments: NUMMULITES

1062.3 - 1064.5 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 2% Porosity: Intergranular, Not Observed; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 20%; Grain Size: Fine; Range: Lithographic to Fine; Good Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Other Features: Chalky

1064.5 - 1065 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 4% Porosity: Intergranular, Not Observed; Grain Type:

Intraclasts, Calcilutite; Allochemical Constituents: 40%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Calcite - 04%, Dolomite - 04%

1065 - 1065.7 ft Calcarenite; Color: Moderate Yellowish Brown (10YR 5/4) to Very Light Orange (10YR 8/2); 4% Porosity: Intergranular, Pinpoint; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 40%; Grain Size: Fine; Range: Lithographic to Granule (2-4 mm); Poor Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Mottled, Nodular; Accessory Minerals: Calcite - 20%, Dolomite - 40%; Other Features: Dolomitic

1065.7 - 1067.7 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 8% Porosity: Intergranular, Pinpoint; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 30%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive

1067.7 - 1069.5 ft Calcarenite; Color: Grayish Brown (10YR 6/2); 10% Porosity: Intergranular, Pinpoint; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 60%; Grain Size: Fine; Range: Lithographic to Granule (2-4 mm); Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Mottled, Nodular; Accessory Minerals: Calcite - 20%, Dolomite - 30%; Other Features: Dolomitic; General Fossils: Benthic Foraminifera; Comments: NUMMULITES

1069.5 - 1069.7 ft Calcarenite; Color: Very Light Orange (10YR 8/2) to Moderate Yellowish Brown (10YR 5/4); 15% Porosity: Intergranular, Vugular, Pinpoint; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 50%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Laminated, Nodular; Accessory Minerals: Calcite - 20%, Dolomite - 20%, Organics - 05%

1069.7 - 1070.7 ft Calcarenite; Color: Pinkish Gray (5YR 8/1); 2% Porosity: Intergranular, Not Observed; Grain Type: Calcilutite, Intraclasts; Allochemical Constituents: 20%; Grain Size: Very Fine; Range: Lithographic to Fine; Good Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive, Laminated

1070.7 - 1075.8 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 5% Porosity: Intergranular, Pinpoint; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 40%; Grain Size: Fine; Range: Lithographic to Fine; Good Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive

1075.8 - 1076.5 ft Calcarenite; Color: Moderate Yellowish Brown (10YR 5/4) to Very Light Orange (10YR 8/2); 15% Porosity: Intergranular, Pinpoint; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 40%; Grain Size: Fine; Range: Lithographic to Granule (2-4 mm); Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Mottled, Nodular; Accessory Minerals: Calcite - 20%, Dolomite - 40%; Other Features: Dolomitic

1076.5 - 1076.9 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 4% Porosity: Intergranular, Pinpoint; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 40%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive

1076.9 - 1077.3 ft Calcarenite; Color: Very Light Gray (N8) to Moderate Gray (N5); 5% Porosity: Vugular; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 20%; Grain Size: Fine; Range: Lithographic to Fine; Good Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Laminated; Accessory Minerals: Dolomite - 20%; Other Features: Medium Recrystallization, Dolomitic; Comments: HARD AS CHERT

1077.3 - 1079.8 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 15% Porosity: Fracture; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 20%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Calcite - 05%; Other Features: Dolomitic; Comments: SLICKEN SIDES ALONG APPARENT FAULTS

1079.8 - 1080.2 ft Calcarenite; Color: Moderate Yellowish Brown (10YR 5/4) to Very Light Orange (10YR 8/2); 15% Porosity: Vugular, Intergranular, Pinpoint; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 60%; Grain Size: Medium; Range: Lithographic to Granule (2-4 mm); Poor Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Mottled; Accessory Minerals: Calcilutite - 20%, Dolomite - 30%; Other Features: Dolomitic, Low Recrystallization, Speckled; General Fossils: Benthic Foraminifera

1080.2 - 1081.3 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 10% Porosity: Intergranular, Pinpoint, Fracture; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 30%; Grain Size: Fine; Range: Lithographic to Fine; Good Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; General Fossils: Miliolids

1081.3 - 1081.7 ft Calcarenite; Color: Very Light Orange (10YR 8/2) to Moderate Yellowish Brown (10YR 5/4); 20% Porosity: Vugular, Fracture, Intergranular; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 80%; Grain Size: Medium; Range: Lithographic to Granule (2-4 mm); Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Mottled, Nodular; Accessory Minerals: Calcilutite - 20%, Dolomite - 30%; Other Features: Dolomitic, Low Recrystallization

1081.7 - 1084 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 5% Porosity: Fracture; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 20%; Grain Size: Fine; Range: Lithographic to Fine; Good Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Dolomite - 05%; General Fossils: Benthic Foraminifera; Comments: NUMMULITES; SLICKEN SIDES.

1084 - 1086.2 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 10% Porosity: Intergranular, Pinpoint; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 80%; Grain Size: Fine; Range: Lithographic to Granule (2-4 mm); Good Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive, Laminated; Accessory Minerals: Calcilutite - 10%, Dolomite - 30%; Other Features: Granular, Low Recrystallization

1086.2 - 1089 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 20% Porosity: Fracture, Intergranular, Pinpoint; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 40%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive, Laminated; Accessory Minerals: Calcilutite - 10%, Dolomite - 20%; Other Features: Granular, Low Recrystallization; General Fossils: Benthic Foraminifera; Comments: NUMMULITES

1089 - 1091.1 ft Calcarenite; Color: Very Light Orange (10YR 8/2) to Very Light Gray (N8); 10% Porosity: Fracture, Intergranular, Pinpoint; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 40%; Grain Size: Fine; Range: Lithographic to Fine; Good Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive, Laminated, Mottled, Nodular; Accessory Minerals: Calcilutite - 05%, Dolomite - 10%; Other Features: Granular, Low Recrystallization; Comments: FRACTURE W/DISPLACEMENT

1091.1 - 1091.8 ft Calcarenite; Color: Very Light Orange (10YR 8/2) to Yellowish Gray (5Y 7/2); 20% Porosity: Fracture, Intergranular, Pinpoint; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 40%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Calcilutite - 05%, Dolomite - 10%; Comments: SLICKEN SIDES

1091.8 - 1092.5 ft Calcarenite; Color: Grayish Orange Pink (5YR 7/2); 10% Porosity: Fracture, Intergranular, Pinpoint; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 40%; Grain Size: Fine; Range: Lithographic to Fine; Poor Induration; Cement Type: Calcilutite Matrix; Accessory Minerals: Calcilutite - 05%, Dolomite - 15%; Other Features: Low Recrystallization

1092.5 - 1095 ft Calcarenite; Color: Yellowish Gray (5Y 7/2) to Light Yellowish Orange (10YR 8/6); 15% Porosity: Fracture, Intergranular, Vugular; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 20%; Grain Size: Very Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Dolomite - 10%; Other Features: Low Recrystallization

1095 - 1099 ft Calcarenite; Color: Yellowish Gray (5Y 7/2); 20% Porosity: Fracture, Vugular, Intergranular; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 80%; Grain Size: Medium; Range: Lithographic to Granule (2-4 mm); Poor Induration; Cement Type: Calcilutite Matrix, Dolomite; Sedimentary Structures: Mottled, Nodular; Accessory Minerals: Dolomite - 15%; Other Features: Low Recrystallization

1099 - 1100.9 ft Dolostone; Color: Very Light Orange (10YR 8/2); 20% Porosity: Vugular, Intergranular, Fracture; Alteration: Low (0-10%); Crystallinity: Anhedral; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Dolomite; Sedimentary Structures: Mottled, Nodular, Laminated; Other Features: Low Recrystallization; Comments: SOME

HARD CRYSTALLINE CHERTY MASSES

1100.9 - 1102.1 ft Dolostone; Color: Grayish Orange (10YR 7/4) to Very Light Orange (10YR 8/2); 15% Porosity: Pinpoint, Intergranular, Vugular; Alteration: Low (0-10%); Crystallinity: Anhedral; Grain Size: Medium; Range: Lithographic to Granule (2-4 mm); Moderate Induration; Cement Type: Dolomite, Calcilutite Matrix; Sedimentary Structures: Mottled, Nodular; Accessory Minerals: Calcilutite - 10%; Other Features: Calcareous; General Fossils: Benthic Foraminifera

1102.1 - 1104.7 ft Calcarenite; Color: Yellowish Gray (5Y 7/2); 5% Porosity: Fracture, Not Observed; Grain Type: Calcilutite, Intraclasts; Allochemical Constituents: 20%; Grain Size: Very Fine; Range: Lithographic to Fine; Good Induration; Cement Type: Calcilutite Matrix, Dolomite; Sedimentary Structures: Laminated; Accessory Minerals: Dolomite - 05%, Organics - 01%; Other Features: Dolomitic; Comments: LAMINATIONS @ TOP; SLICKEN SIDES @ BASE

1104.7 - 1109.8 ft Calcarenite; Color: Very Light Orange (10YR 8/2) to Yellowish Gray (5Y 7/2); 10% Porosity: Vugular, Pinpoint, Intergranular; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 40%; Grain Size: Fine; Range: Lithographic to Granule (2-4 mm); Poor Induration; Cement Type: Calcilutite Matrix, Dolomite; Sedimentary Structures: Mottled, Nodular, Laminated; Accessory Minerals: Dolomite - 15%; Other Features: Dolomitic, Low Recrystallization

1109.8 - 1111.8 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 8% Porosity: Intergranular, Pinpoint, Fracture; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 30%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Dolomite; Sedimentary Structures: Laminated; Accessory Minerals: Dolomite - 10%; Other Features: Dolomitic, Low Recrystallization; Comments: DARK GREY CLAY UNIT 0.1FT @ BOTTOM OF PREVIOUS

1111.8 - 1113.7 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 5% Porosity: Intergranular, Pinpoint; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 40%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix, Dolomite; Sedimentary Structures: Massive; Accessory Minerals: Dolomite - 10%; Other Features: Dolomitic

1113.7 - 1114 ft Calcarenite; Color: Grayish Orange (10YR 7/4); 5% Porosity: Pinpoint, Intergranular; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 50%; Grain Size: Fine; Range: Lithographic to Fine; Poor Induration; Cement Type: Calcilutite Matrix, Dolomite; Sedimentary Structures: Massive; Accessory Minerals: Dolomite - 10%; Other Features: Dolomitic

1114 - 1114.6 ft Dolostone; Color: Very Light Orange (10YR 8/2) to Grayish Orange (10YR 7/4); 5% Porosity: Intergranular, Pinpoint; Alteration: Medium (10-50%); Crystallinity: Anhedral; Grain Size: Fine; Range: Lithographic to Fine; Good Induration; Cement Type: Dolomite, Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Calcilutite - 05%; Other Features: Calcareous, Medium Recrystallization

1114.6 - 1116 ft Dolostone; Color: Grayish Brown (10YR 6/2) to Moderate Yellowish Brown (10YR 5/4); 5% Porosity: Pinpoint, Intergranular; Alteration: Medium (10-50%); Crystallinity: Subhedral; Grain Size: Fine; Range: Lithographic to Fine; Good Induration; Cement Type: Dolomite, Calcilutite Matrix; Sedimentary Structures: Laminated, Banded; Accessory Minerals: Calcilutite - 05%, Organics - 02%; Other Features: Calcareous, Medium Recrystallization, Variegated, Granular

1116 - 1117.1 ft Dolostone; Color: Grayish Orange (10YR 7/4); 8% Porosity: Pinpoint, Intergranular; Alteration: Medium (10-50%); Crystallinity: Subhedral; Grain Size: Fine; Range: Lithographic to Granule (2-4 mm); Good Induration; Cement Type: Dolomite, Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Calcilutite - 05%; Other Features: Granular, Calcareous, Medium Recrystallization

1117.1 - 1118.8 ft Dolostone; Color: Moderate Yellowish Brown (10YR 5/4) to Grayish Brown (10YR 6/2); 8% Porosity: Pinpoint, Intergranular; Alteration: Medium (10-50%); Crystallinity: Subhedral; Grain Size: Medium; Range: Lithographic to Granule (2-4 mm); Good Induration; Cement Type: Dolomite, Calcilutite Matrix; Sedimentary Structures: Mottled, Nodular, Laminated; Accessory Minerals: Calcilutite - 08%; Other Features: Granular, Calcareous, Medium Recrystallization

1118.8 - 1120 ft Dolostone; Color: Grayish Brown (10YR 6/2) to Very Light Orange (10YR 8/2); 4% Porosity: Intergranular, Pinpoint; Alteration: Medium (10-50%); Crystallinity: Subhedral; Grain Size: Fine; Range: Lithographic to Fine; Good

Induration; Cement Type: Dolomite, Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Calcilutite - 05%; Other Features: Granular, Calcareous, Medium Recrystallization

1120 - 1122.4 ft Dolostone; Color: Very Light Orange (10YR 8/2); 8% Porosity: Fracture, Intergranular, Pinpoint; Alteration: Medium (10-50%); Crystallinity: Subhedral; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Dolomite, Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Calcilutite - 02%; Other Features: Granular, Calcareous, Medium Recrystallization

1122.4 - 1123.2 ft Dolostone; Color: Very Light Orange (10YR 8/2) to Grayish Brown (10YR 6/2); 4% Porosity: Intergranular, Pinpoint, Fracture; Alteration: Medium (10-50%); Crystallinity: Subhedral; Grain Size: Fine; Range: Lithographic to Granule (2-4 mm); Moderate Induration; Cement Type: Dolomite, Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Calcilutite - 04%; Other Features: Granular, Calcareous, Medium Recrystallization; General Fossils: Benthic Foraminifera

1123.2 - 1130.5 ft Dolostone; Color: Very Light Orange (10YR 8/2) to Grayish Orange (10YR 7/4); 8% Porosity: Pinpoint, Intergranular, Fracture; Alteration: Medium (10-50%); Crystallinity: Subhedral; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Dolomite, Calcilutite Matrix; Sedimentary Structures: Laminated; Accessory Minerals: Calcilutite - 04%; Other Features: Granular, Calcareous, Medium Recrystallization

1130.5 - 1131.7 ft Calcarenite; Color: Grayish Orange (10YR 7/4) to Moderate Gray (N5); 8% Porosity: Pinpoint, Intergranular; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 40%; Grain Size: Fine; Range: Lithographic to Granule (2-4 mm); Moderate Induration; Cement Type: Calcilutite Matrix, Dolomite; Sedimentary Structures: Mottled, Nodular, Laminated; Accessory Minerals: Dolomite - 15%, Organics - 10%; Other Features: Dolomitic, Granular

1131.7 - 1132.2 ft Calcarenite; Color: Moderate Gray (N5) to Grayish Orange (10YR 7/4); 8% Porosity: Intergranular, Pinpoint; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 30%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix, Dolomite; Sedimentary Structures: Mottled, Nodular, Laminated; Accessory Minerals: Dolomite - 20%, Organics - 10%; Other Features: Dolomitic, Granular

1132.2 - 1134.5 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 4% Porosity: Intergranular, Pinpoint; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 40%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix, Dolomite; Sedimentary Structures: Massive; Accessory Minerals: Dolomite - 10%; Other Features: Dolomitic, Granular, Low Recrystallization

1134.5 - 1137.3 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 10% Porosity: Fracture, Intergranular, Pinpoint; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 40%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix, Dolomite; Sedimentary Structures: Massive; Accessory Minerals: Dolomite - 10%; Other Features: Dolomitic, Granular, Low Recrystallization

1137.3 - 1137.8 ft Calcarenite; Color: Yellowish Gray (5Y 7/2) to Dark Grayish Red (5R 3/4); 10% Porosity: Vugular, Pinpoint, Intergranular; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 20%; Grain Size: Very Fine; Range: Lithographic to Fine; Good Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Nodular; Accessory Minerals: Calcite - 10%; Other Features: Medium Recrystallization

1137.8 - 1141.2 ft Dolostone; Color: Very Light Orange (10YR 8/2); 8% Porosity: Fracture, Pinpoint, Intergranular; Alteration: Medium (10-50%); Crystallinity: Subhedral; Grain Size: Fine; Range: Lithographic to Fine; Good Induration; Cement Type: Dolomite, Calcilutite Matrix; Sedimentary Structures: Massive; Other Features: Medium Recrystallization

1141.2 - 1144 ft Dolostone; Color: Grayish Orange (10YR 7/4) to Dark Yellowish Brown (10YR 4/2); 8% Porosity: Fracture, Intergranular, Pinpoint; Alteration: Medium (10-50%); Crystallinity: Subhedral; Grain Size: Fine; Range: Lithographic to Granule (2-4 mm); Poor Induration; Cement Type: Dolomite, Calcilutite Matrix; Sedimentary Structures: Mottled; Accessory Minerals: Organics - 20%; Other Features: Calcareous

1144 - 1144.6 ft Dolostone; Color: Grayish Orange (10YR 7/4) to Grayish Brown (10YR 6/2); 4% Porosity: Intergranular,

Pinpoint; Alteration: Medium (10-50%); Crystallinity: Subhedral; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Dolomite, Calcilutite Matrix; Sedimentary Structures: Mottled, Nodular; Accessory Minerals: Organics - 02%; Other Features: Calcareous

1144.6 - 1145 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 4% Porosity: Intergranular, Not Observed; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 20%; Grain Size: Very Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix, Dolomite; Sedimentary Structures: Massive

1145 - 1145.7 ft Limestone; Color: Light Olive Gray (5Y 6/1); 2% Porosity: Pinpoint, Vugular; Grain Type: Crystals; Grain Size: Lithographic; Range: Lithographic to Lithographic; Good Induration; Cement Type: Sparry Calcite; Sedimentary Structures: Massive; Other Features: Crystalline; Comments: MASSIVE, HEAVY W/ VUGS; CRYSTALLINE

1145.7 - 1147 ft Dolostone; Color: Grayish Orange (10YR 7/4) to Light Yellowish Orange (10YR 8/6); 10% Porosity: Pinpoint, Vugular, Intergranular; Alteration: Medium (10-50%); Crystallinity: Subhedral; Grain Size: Fine; Range: Lithographic to Granule (2-4 mm); Moderate Induration; Cement Type: Dolomite, Calcilutite Matrix; Sedimentary Structures: Mottled, Nodular, Laminated; Accessory Minerals: Organics - 10%; Other Features: Granular, Medium Recrystallization, Variegated

1147 - 1149.2 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 5% Porosity: Intergranular, Pinpoint; Grain Type: Intraclasts, Calcilutite, Biogenic; Allochemical Constituents: 70%; Grain Size: Fine; Range: Lithographic to Granule (2-4 mm); Moderate Induration; Cement Type: Calcilutite Matrix, Dolomite; Sedimentary Structures: Massive; Accessory Minerals: Dolomite - 05%, Organics - 02%; Other Features: Speckled, Granular; General Fossils: Benthic Foraminifera; Comments: WHITE SPECKS ARE FORAMS

1149.2 - 1150.4 ft Dolostone; Color: Very Light Orange (10YR 8/2); 8% Porosity: Intergranular, Pinpoint; Alteration: Medium (10-50%); Crystallinity: Subhedral; Grain Size: Fine; Range: Lithographic to Granule (2-4 mm); Moderate Induration; Cement Type: Dolomite, Calcilutite Matrix; Sedimentary Structures: Mottled, Nodular, Laminated; Accessory Minerals: Organics - 02%; Other Features: Granular, Calcareous

1150.4 - 1152 ft Dolostone; Color: Very Light Orange (10YR 8/2); 4% Porosity: Intergranular; Alteration: Medium (10-50%); Crystallinity: Subhedral; Grain Size: Fine; Range: Lithographic to Fine; Good Induration; Cement Type: Dolomite, Calcilutite Matrix; Sedimentary Structures: Massive

1151 - 1153.5 ft Dolostone; Color: Very Light Orange (10YR 8/2); 8% Porosity: Fracture, Intergranular, Pinpoint; Alteration: Medium (10-50%); Crystallinity: Anhedral; Grain Size: Fine; Range: Lithographic to Fine; Good Induration; Cement Type: Dolomite, Calcilutite Matrix; Sedimentary Structures: Massive, Nodular; Accessory Minerals: Organics - 02%; Other Features: Speckled, Calcareous; General Fossils: Benthic Foraminifera

1153.5 - 1158.5 ft Dolostone; Color: Yellowish Gray (5Y 7/2); 10% Porosity: Vugular, Pinpoint, Intergranular; Alteration: Medium (10-50%); Crystallinity: Anhedral; Grain Size: Fine; Range: Lithographic to Granule (2-4 mm); Accessory Minerals: Organics - 05%; Other Features: Speckled, Calcareous; General Fossils: Benthic Foraminifera

1158.5 - 1158.6 ft Chert; Color: Pinkish Gray (5YR 8/1); Porosity: Not Observed; Good Induration; Sedimentary Structures: Massive

1158.6 - 1159.8 ft Dolostone; Color: Very Light Orange (10YR 8/2); 8% Porosity: Pinpoint, Intergranular, Vugular; Alteration: Medium (10-50%); Crystallinity: Anhedral; Grain Size: Fine; Range: Lithographic to Granule (2-4 mm); Good Induration; Cement Type: Dolomite, Calcilutite Matrix; Sedimentary Structures: Mottled, Nodular; Accessory Minerals: Chert - 04%; Other Features: Low Recrystallization

1159.8 - 1162.2 ft Dolostone; Color: Very Light Orange (10YR 8/2); 4% Porosity: Pinpoint, Intergranular; Alteration: Medium (10-50%); Crystallinity: Anhedral;Grain Size: Fine; Range: Lithographic to Granule (2-4 mm); Good Induration; Cement Type: Dolomite, Calcilutite Matrix; Sedimentary Structures: Laminated; Accessory Minerals: Organics - 02%; Other Features: Low Recrystallization, Calcareous

1162.2 - 1162.5 ft Dolostone; Color: Yellowish Gray (5Y 7/2) to Very Light Orange (10YR 8/2); 5% Porosity: Intergranular, Pinpoint; Alteration: Medium (10-50%); Crystallinity: Anhedral; Grain Size: Fine; Range: Lithographic to Granule (2-4 mm); Moderate Induration; Cement Type: Dolomite, Calcilutite Matrix; Sedimentary Structures: Mottled, Nodular; Accessory Minerals: Calcilutite - 05%; Other Features: Calcareous

1162.5 - 1164 ft Dolostone; Color: Very Light Orange (10YR 8/2); 5% Porosity: Intergranular, Fracture; Alteration: Medium (10-50%); Crystallinity: Anhedral; Grain Size: Fine; Range: Lithographic to Granule (2-4 mm); Poor Induration; Cement Type: Dolomite, Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Calcilutite - 05%; Other Features: Calcareous; Comments: SLICKEN SIDES @ BASE

1164 - 1166.8 ft Dolostone; Color: Very Light Orange (10YR 8/2); 8% Porosity: Pinpoint, Intergranular, Fracture; Alteration: Medium (10-50%); Crystallinity: Anhedral; Grain Size: Fine; Range: Lithographic to Fine; Good Induration; Cement Type: Dolomite; Sedimentary Structures: Massive; Other Features: Low Recrystallization; Comments: SLICKEN SIDES @ BASE

1166.8 - 1167.8 ft Dolostone; Color: Yellowish Gray (5Y 7/2) to Very Light Orange (10YR 8/2); 7% Porosity: Intergranular, Pinpoint, Fracture; Alteration: Medium (10-50%); Crystallinity: Anhedral; Grain Size: Fine; Range: Lithographic to Granule (2-4 mm); Good Induration; Cement Type: Dolomite; Sedimentary Structures: Nodular; Accessory Minerals: Organics - 02%; Other Features: Low Recrystallization; Comments: INTRACLASTS OF LIGHTER DS IN DARKER MATRIX

1167.8 - 1168.4 ft Dolostone; Color: Yellowish Gray (5Y 7/2) to Very Light Orange (10YR 8/2); 10% Porosity: Pinpoint, Intergranular; Alteration: Medium (10-50%); Crystallinity: Anhedral; Grain Size: Fine; Range: Lithographic to Granule (2-4 mm); Good Induration; Cement Type: Dolomite; Sedimentary Structures: Laminated; Accessory Minerals: Organics - 05%; Other Features: Low Recrystallization

1168.4 - 1169 ft Dolostone; Color: Very Light Orange (10YR 8/2); 4% Porosity: Pinpoint, Intergranular; Alteration: Medium (10-50%); Crystallinity: Anhedral; Grain Size: Fine; Range: Lithographic to Fine; Good Induration; Cement Type: Dolomite; Sedimentary Structures: Massive; Accessory Minerals: Organics - 02%; Other Features: Low Recrystallization

1169 - 1173 ft Dolostone; Color: Very Light Orange (10YR 8/2); 10% Porosity: Fracture, Pinpoint, Intergranular; Alteration: Medium (10-50%); Crystallinity: Anhedral; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Dolomite, Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Organics - 02%; Other Features: Low Recrystallization, Calcareous

1173 - 1173.5 ft Limestone; Color: Very Light Orange (10YR 8/2) to Light Gray (N7); 10% Porosity: Vugular, Pinpoint, Intergranular; Grain Type: Crystals, Intraclasts, Calcilutite; Allochemical Constituents: 40%; Grain Size: Fine; Range: Lithographic to Granule (2-4 mm); Moderate Induration; Cement Type: Calcilutite Matrix, Dolomite; Sedimentary Structures: Laminated, Interbedded; Accessory Minerals: Dolomite - 10%, Organics - 10%; Other Features: Medium Recrystallization, Dolomitic

1173.5 - 1174 ft Calcarenite; Color: Yellowish Gray (5Y 7/2); 8% Porosity: Fracture, Pinpoint, Intergranular; Grain Type: Calcilutite, Intraclasts; Allochemical Constituents: 60%; Grain Size: Fine; Range: Lithographic to Granule (2-4 mm); Poor Induration; Cement Type: Calcilutite Matrix, Dolomite; Sedimentary Structures: Laminated; Accessory Minerals: Dolomite - 10%, Organics - 10%; Other Features: Low Recrystallization, Dolomitic

1174 - 1179 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 6% Porosity: Pinpoint, Intergranular, Fracture; Grain Type: Calcilutite, Intraclasts; Allochemical Constituents: 30%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix, Dolomite; Sedimentary Structures: Massive; Accessory Minerals: Organics - 02%; Other Features: Low Recrystallization, Dolomitic; General Fossils: Echinoid

1179 - 1182.8 ft Dolostone; Color: Very Light Orange (10YR 8/2); 6% Porosity: Pinpoint, Fracture, Intergranular; Alteration: Medium (10-50%); Crystallinity: Anhedral; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Dolomite, Calcilutite Matrix; Sedimentary Structures: Massive; Other Features: Calcareous; General Fossils: Benthic Foraminifera

1182.8 - 1184.1 ft Dolostone; Color: Pinkish Gray (5YR 8/1) to Grayish Purple (5P 4/2); 5% Porosity: Vugular, Pinpoint; Alteration: Highly (50-90%); Crystallinity: Subhedral; Grain Size: Medium; Range: Lithographic to Granule (2-4 mm); Moderate Induration; Cement Type: Dolomite; Sedimentary Structures: Nodular; Other Features: High Recrystallization, Granular, Crystalline

1184.1 - 1185 ft Dolostone; Color: Very Light Orange (10YR 8/2); 8% Porosity: Intergranular, Pinpoint, Fracture; Alteration: Medium (10-50%); Crystallinity: Anhedral; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Dolomite; Sedimentary Structures: Streaked, Nodular; Accessory Minerals: Organics - 02%; Other Features: Low Recrystallization

1185 - 1185.9 ft Dolostone; Color: Very Light Orange (10YR 8/2) to Yellowish Gray (5Y 7/2); 10% Porosity: Vugular, Intergranular, Fracture; Alteration: Medium (10-50%); Crystallinity: Anhedral; Grain Size: Fine; Range: Lithographic to Granule (2-4 mm); Good Induration; Cement Type: Dolomite; Sedimentary Structures: Laminated, Interbedded; Accessory Minerals: Organics - 04%; Other Features: Low Recrystallization

1185.9 - 1186.2 ft Dolostone; Color: Very Light Orange (10YR 8/2); 4% Porosity: Intergranular, Pinpoint, Fracture; Alteration: Medium (10-50%); Crystallinity: Anhedral; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Dolomite; Sedimentary Structures: Massive

1186.2 - 1186.5 ft Dolostone; Color: Very Light Orange (10YR 8/2) to Moderate Light Gray (N6); 20% Porosity: Moldic, Vugular; Alteration: Medium (10-50%); Crystallinity: Anhedral; Grain Size: Medium; Range: Lithographic to Granule (2-4 mm); Poor Induration; Cement Type: Dolomite; Sedimentary Structures: Bioturbated; Accessory Minerals: Organics - 05%; Other Features: Medium Recrystallization, Fossiliferous; General Fossils: Mollusks

1186.5 - 1194 ft Dolostone; Color: Very Light Orange (10YR 8/2) to Very Light Gray (N8); 2% Porosity: Not Observed, Pinpoint; Alteration: Low (0-10%); Crystallinity: Anhedral; Grain Size: Fine; Range: Lithographic to Fine; Good Induration; Cement Type: Dolomite, Calcilutite Matrix; Sedimentary Structures: Mottled, Massive; Accessory Minerals: Organics - 02%; Other Features: Variegated

1194 - 1196 ft Calcarenite; Color: Pinkish Gray (5YR 8/1) to White (N9); 2% Porosity: Not Observed, Pinpoint; Grain Type: Calcilutite, Intraclasts; Allochemical Constituents: 25%; Grain Size: Fine; Range: Lithographic to Fine; Good Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive, Mottled; Accessory Minerals: Organics - 02%; Other Features: Dolomitic, Chalky

1196 - 1196.8 ft Calcarenite; Color: Yellowish Gray (5Y 8/1) to Light Gray (N7); 8% Porosity: Intergranular, Pinpoint, Vugular; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 75%; Grain Size: Fine; Range: Lithographic to Granule (2-4 mm); Good Induration; Cement Type: Calcilutite Matrix, Dolomite; Sedimentary Structures: Mottled, Nodular; Accessory Minerals: Dolomite - 40%, Organics - 02%; Other Features: Dolomitic, Low Recrystallization

1196.8 - 1204 ft Calcarenite; Color: Very Light Orange (10YR 8/2) to Pinkish Gray (5YR 8/1); 4% Porosity: Pinpoint, Intergranular; Grain Type: Calcilutite, Intraclasts; Allochemical Constituents: 20%; Grain Size: Fine; Range: Lithographic to Fine; Good Induration; Cement Type: Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Organics - 02%; Other Features: Chalky

1204 - 1204.7 ft Calcarenite; Color: Very Light Orange (10YR 8/2) to Grayish Brown (10YR 6/2); 5% Porosity: Intergranular, Pinpoint, Fracture; Grain Type: Calcilutite, Intraclasts; Allochemical Constituents: 30%; Grain Size: Fine; Range: Lithographic to Fine; Good Induration; Cement Type: Calcilutite Matrix, Dolomite; Sedimentary Structures: Laminated; Accessory Minerals: Dolomite - 02%, Organics - 02%; Other Features: Low Recrystallization

1204.7 - 1209 ft Calcarenite; Color: Grayish Brown (10YR 6/2); 4% Porosity: Intergranular, Pinpoint; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 70%; Grain Size: Medium; Range: Lithographic to Granule (2-4 mm); Moderate Induration; Cement Type: Calcilutite Matrix, Dolomite; Sedimentary Structures: Nodular; Accessory Minerals: Dolomite - 10%, Organics - 02%; Other Features: Low Recrystallization; General Fossils: Echinoid

1209 - 1213.3 ft Dolostone; Color: Grayish Brown (10YR 6/2); 6% Porosity: Intergranular, Pinpoint; Alteration: Medium (10-50%); Crystallinity: Anhedral; Grain Size: Fine; Range: Lithographic to Granule (2-4 mm); Moderate Induration; Cement Type: Dolomite, Calcilutite Matrix; Accessory Minerals: Organics - 01%; Other Features: Low Recrystallization, Granular; Comments: WAFERS

1213.3 - 1214.7 ft Dolostone; Color: Grayish Brown (10YR 6/2); 4% Porosity: Intergranular, Pinpoint; Alteration: Medium (10-50%); Crystallinity: Anhedral; Grain Size: Fine; Range: Lithographic to Granule (2-4 mm); Good Induration; Cement Type: Dolomite, Calcilutite Matrix; Sedimentary Structures: Massive; Accessory Minerals: Organics - 01%; Other Features: Low Recrystallization, Granular

1214.7 - 1220.2 ft Dolostone; Color: Very Light Orange (10YR 8/2); 5% Porosity: Pinpoint, Intergranular; Alteration: Medium (10-50%); Crystallinity: Anhedral; Grain Size: Fine; Range: Lithographic to Granule (2-4 mm); Good Induration; Cement Type: Dolomite; Sedimentary Structures: Massive; Other Features: Medium Recrystallization, Granular

1220.2 - 1223.8 ft Dolostone; Color: Very Light Orange (10YR 8/2); 2% Porosity: Intergranular, Pinpoint; Alteration: Medium (10-50%); Crystallinity: Anhedral; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Dolomite; Sedimentary Structures: Massive; Accessory Minerals: Organics - 01%; Other Features: Low Recrystallization

1223.8 - 1227.5 ft Dolostone; Color: Grayish Brown (10YR 6/2); 10% Porosity: Fracture, Pinpoint; Alteration: Medium (10-50%); Crystallinity: Subhedral; Grain Size: Fine; Range: Lithographic to Fine; Good Induration; Cement Type: Dolomite; Sedimentary Structures: Massive; Accessory Minerals: Organics - 02%; Other Features: Medium Recrystallization; General Fossils: Echinoid, Mollusks, Fossil Molds, Benthic Foraminifera; Comments: TOP OF HARD FRACTURED DS

1227.5 - 1229.1 ft Dolostone; Color: Very Light Orange (10YR 8/2); 5% Porosity: Fracture, Pinpoint; Alteration: Medium (10-50%); Crystallinity: Anhedral; Grain Size: Fine; Range: Lithographic to Granule (2-4 mm); Good Induration; Cement Type: Dolomite; Sedimentary Structures: Massive; Accessory Minerals: Organics - 01%; Other Features: Low Recrystallization

1229.1 - 1229.4 ft Dolostone; Color: Very Light Orange (10YR 8/2) to Light Grayish Green (5GY 7/2); 2% Porosity: Pinpoint, Intergranular, Fracture; Alteration: Medium (10-50%); Crystallinity: Anhedral; Grain Size: Fine; Range: Lithographic to Fine; Good Induration; Cement Type: Dolomite; Sedimentary Structures: Massive; Other Features: Low Recrystallization; Comments: GREEN COATING ALONG FRACTURE?

1220 - 1230 ft Calcarenite; Color: Very Light Orange (10YR 8/2) to White (N9); 5% Porosity: Intergranular; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 70%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Accessory Minerals: Calcite - 10%, Dolomite - 30%; General Fossils: Benthic Foraminifera; Comments: NUMMULITES

1229.4 - 1235.3 ft Dolostone; Color: Very Light Orange (10YR 8/2); 4% Porosity: Fracture, Intergranular, Pinpoint; Alteration: Medium (10-50%); Crystallinity: Anhedral; Grain Size: Fine; Range: Lithographic to Granule (2-4 mm); Good Induration; Cement Type: Dolomite; Sedimentary Structures: Massive; Accessory Minerals: Organics - 02%; Other Features: Granular, Low Recrystallization

1230 - 1240 ft Dolostone; Color: Very Light Orange (10YR 8/2) to Yellowish Gray (5Y 7/2); 5% Porosity: Intergranular; Alteration: Medium (10-50%); Crystallinity: Subhedral; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Dolomite, Calcilutite Matrix; Accessory Minerals: Calcarenite - 10%; Other Features: Calcareous; General Fossils: Benthic Foraminifera

1235.3 - 1242.2 ft Dolostone; Color: Grayish Orange (10YR 7/4); 15% Porosity: Moldic, Vugular, Intergranular; Alteration: Highly (50-90%); Crystallinity: Subhedral; Grain Size: Medium; Range: Lithographic to Granule (2-4 mm); Moderate Induration; Cement Type: Dolomite; Sedimentary Structures: Massive; Accessory Minerals: Organics - 02%; Other Features: Granular, High Recrystallization, Brown Anhydrite Crystals, Sucrosic; General Fossils: Benthic Foraminifera, Fossil Molds

1242.2 - 1244 ft Dolostone; Color: Grayish Orange (10YR 7/4); 10% Porosity: Fracture, Moldic, Pinpoint; Alteration: Highly

(50-90%); Crystallinity: Subhedral; Grain Size: Medium; Range: Lithographic to Granule (2-4 mm); Good Induration; Cement Type: Dolomite; Sedimentary Structures: Massive; Other Features: Granular, High Recrystallization, Brown Anhydrite Crystals; General Fossils: Benthic Foraminifera, Fossil Molds; Comments: TOTAL DEPTH OF CORE

1240 - 1260 ft Dolostone; Color: Yellowish Gray (5Y 7/2) to Very Light Orange (10YR 8/2); 15% Porosity: Intergranular; Alteration: Highly (50-90%); Crystallinity: Euhedral; Grain Size: Fine; Range: Lithographic to Medium; Moderate Induration; Cement Type: Dolomite; Accessory Minerals: Calcarenite - 02%; Other Features: Sucrosic, Crystalline; General Fossils: Benthic Foraminifera

1260 - 1270 ft Dolostone; Color: Yellowish Gray (5Y 7/2) to Very Light Orange (10YR 8/2); 10% Porosity: Intergranular, Fracture; Alteration: Highly (50-90%); Crystallinity: Subhedral; Grain Size: Fine; Range: Lithographic to Fine; Good Induration; Cement Type: Dolomite; Accessory Minerals: Calcarenite - 05%; Other Features: Splintery; General Fossils: Benthic Foraminifera

1270 - 1280 ft Dolostone; Color: Yellowish Gray (5Y 7/2) to Very Light Orange (10YR 8/2); 15% Porosity: Intergranular; Alteration: Highly (50-90%); Crystallinity: Euhedral; Grain Size: Fine; Range: Lithographic to Medium; Moderate Induration; Cement Type: Dolomite; Accessory Minerals: Calcarenite - 03%; Other Features: Sucrosic, Crystalline; General Fossils: Benthic Foraminifera

1280 - 1310 ft Dolostone; Color: Yellowish Gray (5Y 7/2) to Very Light Orange (10YR 8/2); 10% Porosity: Intergranular, Fracture; Alteration: Highly (50-90%); Crystallinity: Subhedral; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Dolomite; Accessory Minerals: Calcarenite - 05%; Other Features: Splintery; General Fossils: Benthic Foraminifera

1310 - 1330 ft Dolostone; Color: Yellowish Gray (5Y 7/2) to Very Light Orange (10YR 8/2); 5% Porosity: Intergranular; Alteration: Medium (10-50%); Crystallinity: Subhedral; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Dolomite, Calcilutite Matrix; Accessory Minerals: Calcarenite - 25%; Other Features: Splintery, Calcareous; General Fossils: Benthic Foraminifera; Comments: NUMMULITES; ABUNDANT NUMMULITES IN PREVIOUS SAMPLES

1330 - 1340 ft Dolostone; Color: Yellowish Gray (5Y 7/2) to Very Light Orange (10YR 8/2); 10% Porosity: Intergranular, Fracture; Alteration: Highly (50-90%); Crystallinity: Subhedral; Grain Size: Fine; Range: Lithographic to Fine; Good Induration; Cement Type: Dolomite; Accessory Minerals: Calcarenite - 02%; Other Features: Splintery, Crystalline; General Fossils: Benthic Foraminifera; Comments: 1340-1350: MOSTLY FALLIN CEMENT, DS+LS

1340 - 1380 ft Dolostone; Color: Yellowish Gray (5Y 7/2) to Very Light Orange (10YR 8/2); 10% Porosity: Intergranular, Fracture; Alteration: Highly (50-90%); Crystallinity: Subhedral; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Dolomite; Accessory Minerals: Calcarenite - 05%; Other Features: Splintery, Crystalline; General Fossils: Benthic Foraminifera

1380 - 1390 ft Calcarenite; Color: Very Light Orange (10YR 8/2) to Yellowish Gray (5Y 7/2); 5% Porosity: Intergranular; Grain Type: Intraclasts, Biogenic, Calcilutite; Allochemical Constituents: 30%; Grain Size: Very Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix; Accessory Minerals: Dolomite - 10%; Other Features: Splintery; General Fossils: Benthic Foraminifera

1390 - 1400 ft Calcarenite; Color: Very Light Orange (10YR 8/2) to Yellowish Gray (5Y 7/2); 5% Porosity: Intergranular; Grain Type: Intraclasts, Biogenic, Calcilutite; Allochemical Constituents: 50%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix, Dolomite; Accessory Minerals: Dolomite - 25%; Other Features: Splintery, Crystalline; General Fossils: Benthic Foraminifera

1400 - 1410 ft Dolostone; Color: Yellowish Gray (5Y 7/2) to Very Light Orange (10YR 8/2); 5% Porosity: Intergranular, Fracture; Alteration: Highly (50-90%); Crystallinity: Subhedral; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Dolomite; Accessory Minerals: Calcarenite - 15%; Other Features: Splintery, Crystalline; General Fossils: Benthic Foraminifera

1410 - 1430 ft Dolostone; Color: Yellowish Gray (5Y 7/2) to Very Light Orange (10YR 8/2); 5% Porosity: Intergranular, Fracture; Alteration: Highly (50-90%); Crystallinity: Subhedral; Grain Size: Fine; Range: Lithographic to Fine; Good Induration; Cement Type: Dolomite; Accessory Minerals: Calcarenite - 05%; Other Features: Splintery, Crystalline; General Fossils: Benthic Foraminifera

1430 - 1440 ft Dolostone; Color: Very Light Orange (10YR 8/2) to Grayish Orange (10YR 7/4); 5% Porosity: Intergranular, Fracture; Alteration: Highly (50-90%); Crystallinity: Anhedral; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Dolomite; Accessory Minerals: Calcarenite - 25%; Other Features: Splintery; General Fossils: Benthic Foraminifera

1440 - 1460 ft Dolostone; Color: Yellowish Gray (5Y 7/2) to Very Light Orange (10YR 8/2); 5% Porosity: Intergranular, Fracture; Alteration: Highly (50-90%); Crystallinity: Subhedral; Grain Size: Fine; Range: Lithographic to Fine; Good Induration; Cement Type: Dolomite; Accessory Minerals: Calcarenite - 05%; Other Features: Splintery, Crystalline; General Fossils: Benthic Foraminifera

1460 - 1470 ft Dolostone; Color: Yellowish Gray (5Y 7/2) to Very Light Orange (10YR 8/2); 7% Porosity: Intergranular, Fracture; Alteration: Highly (50-90%); Crystallinity: Anhedral; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Dolomite, Calcilutite Matrix; Accessory Minerals: Calcarenite - 20%; Other Features: Splintery; General Fossils: Benthic Foraminifera

1470 - 1500 ft Dolostone; Color: Very Light Orange (10YR 8/2) to Yellowish Gray (5Y 7/2); 8% Porosity: Fracture, Intergranular; Alteration: Highly (50-90%); Crystallinity: Subhedral; Grain Size: Fine; Range: Lithographic to Fine; Good Induration; Cement Type: Dolomite; Accessory Minerals: Calcarenite - 05%; Other Features: Splintery; General Fossils: Benthic Foraminifera

1500 - 1510 ft Dolostone; Color: Very Light Orange (10YR 8/2) to Yellowish Gray (5Y 7/2); 15% Porosity: Vugular, Moldic, Intergranular; Alteration: Highly (50-90%); Crystallinity: Subhedral; Grain Size: Fine; Range: Lithographic to Medium; Good Induration; Cement Type: Dolomite; Accessory Minerals: Calcarenite - 02%; Other Features: Crystalline; General Fossils: Benthic Foraminifera

1510 - 1530 ft Dolostone; Color: Yellowish Gray (5Y 7/2) to Very Light Orange (10YR 8/2); 5% Porosity: Intergranular, Fracture; Alteration: Highly (50-90%); Crystallinity: Anhedral; Grain Size: Fine; Range: Lithographic to Fine; Good Induration; Cement Type: Dolomite; Accessory Minerals: Calcarenite - 02%; Other Features: Crystalline; General Fossils: Benthic Foraminifera

1530 - 1550 ft Dolostone; Color: Yellowish Gray (5Y 7/2) to Very Light Orange (10YR 8/2); 5% Porosity: Intergranular, Fracture; Alteration: Highly (50-90%); Crystallinity: Anhedral; Grain Size: Fine; Range: Lithographic to Fine; Good Induration; Cement Type: Dolomite; Accessory Minerals: Calcarenite - 02%; Other Features: Splintery, Crystalline; General Fossils: Benthic Foraminifera

1550 - 1570 ft Dolostone; Color: Very Light Orange (10YR 8/2) to Yellowish Gray (5Y 7/2); 4% Porosity: Intergranular, Fracture; Alteration: Highly (50-90%); Crystallinity: Anhedral; Grain Size: Fine; Range: Lithographic to Fine; Good Induration; Cement Type: Dolomite; Sedimentary Structures: Massive; Accessory Minerals: Calcarenite - 02%; Other Features: Crystalline, Splintery; General Fossils: Benthic Foraminifera

1570 - 1580 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 4% Porosity: Intergranular, Fracture; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 30%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix, Dolomite; Sedimentary Structures: Massive; Accessory Minerals: Dolomite - 20%; Other Features: Dolomitic, Splintery; General Fossils: Benthic Foraminifera

1580 - 1610 ft Dolostone; Color: Very Light Orange (10YR 8/2) to Yellowish Gray (5Y 7/2); 8% Porosity: Intergranular, Vugular, Fracture; Alteration: Highly (50-90%); Crystallinity: Subhedral; Grain Size: Fine; Range: Lithographic to Medium; Moderate Induration; Cement Type: Dolomite, Calcilutite Matrix; Accessory Minerals: Calcarenite - 20%; Other Features: Calcareous, Splintery; General Fossils: Benthic Foraminifera

1610 - 1620 ft Calcarenite; Color: Very Light Orange (10YR 8/2); 5% Porosity: Intergranular, Fracture; Grain Type: Intraclasts, Calcilutite; Allochemical Constituents: 30%; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Calcilutite Matrix, Dolomite; Sedimentary Structures: Massive; Accessory Minerals: Dolomite - 20%; Other Features: Dolomitic, Splintery; General Fossils: Benthic Foraminifera

1620 - 1650 ft Dolostone; Color: Very Light Orange (10YR 8/2) to Yellowish Gray (5Y 7/2); 8% Porosity: Pinpoint, Intergranular, Not Observed; Alteration: Highly (50-90%); Crystallinity: Subhedral; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Dolomite, Calcilutite Matrix; Accessory Minerals: Calcarenite - 10%; Other Features: Calcareous, Splintery; General Fossils: Benthic Foraminifera

1650 - 1660 ft Dolostone; Color: Yellowish Gray (5Y 7/2) to Very Light Orange (10YR 8/2); 12% Porosity: Vugular, Pinpoint, Intergranular; Alteration: Highly (50-90%); Crystallinity: Euhedral; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Dolomite; Accessory Minerals: Calcarenite - 02%, Gypsum - 02%; Other Features: Crystalline; General Fossils: Benthic Foraminifera

1660 - 1680 ft Dolostone; Color: Very Light Orange (10YR 8/2) to Yellowish Gray (5Y 7/2); 5% Porosity: Intergranular, Fracture, Pinpoint; Alteration: Highly (50-90%); Crystallinity: Subhedral; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Dolomite; Accessory Minerals: Calcarenite - 02%, Gypsum - 01%; General Fossils: Benthic Foraminifera

1680 - 1690 ft Dolostone; Color: Very Light Orange (10YR 8/2) to Yellowish Gray (5Y 7/2); 5% Porosity: Intergranular, Fracture; Alteration: Highly (50-90%); Crystallinity: Subhedral; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Dolomite; Accessory Minerals: Calcarenite - 02%; Other Features: Splintery, Platy; General Fossils: Benthic Foraminifera

1690 - 1700 ft Dolostone; Color: Yellowish Gray (5Y 7/2) to Very Light Orange (10YR 8/2); 25% Porosity: Vugular, Pinpoint, Intergranular; Alteration: Completely (90-100%); Crystallinity: Euhedral; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Dolomite; Accessory Minerals: Calcarenite - 01%, Gypsum - 02%; Other Features: High Recrystallization, Crystalline; General Fossils: Benthic Foraminifera

1700 - 1720 ft Dolostone; Color: Yellowish Gray (5Y 7/2) to Very Light Orange (10YR 8/2); 8% Porosity: Intergranular, Fracture, Pinpoint; Alteration: Highly (50-90%); Crystallinity: Subhedral; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Dolomite, Calcilutite Matrix; Accessory Minerals: Calcarenite - 10%; Other Features: Splintery, Platy; General Fossils: Benthic Foraminifera

1720 - 1740 ft Dolostone; Color: Yellowish Gray (5Y 7/2) to Very Light Orange (10YR 8/2); 10% Porosity: Intergranular, Vugular, Pinpoint; Alteration: Highly (50-90%); Crystallinity: Subhedral; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Dolomite, Calcilutite Matrix; Accessory Minerals: Calcarenite - 04%; Other Features: Splintery, Platy, Crystalline; General Fossils: Benthic Foraminifera

1740 - 1750 ft Dolostone; Color: Yellowish Gray (5Y 7/2) to Very Light Orange (10YR 8/2); 8% Porosity: Intergranular, Pinpoint, Fracture; Alteration: Highly (50-90%); Crystallinity: Subhedral; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Dolomite; Accessory Minerals: Calcarenite - 04%, Gypsum - 02%; Other Features: Splintery, Platy, Crystalline; General Fossils: Benthic Foraminifera

1750 - 1760 ft Dolostone; Color: Yellowish Gray (5Y 7/2) to Very Light Orange (10YR 8/2); 5% Porosity: Intergranular, Fracture; Alteration: Highly (50-90%); Crystallinity: Subhedral; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Dolomite; Accessory Minerals: Calcarenite - 02%, Gypsum - 04%; Other Features: Splintery, Platy, Crystalline; General Fossils: Benthic Foraminifera

1760 - 1770 ft Dolostone; Color: Yellowish Gray (5Y 7/2) to Very Light Orange (10YR 8/2); 4% Porosity: Intergranular; Alteration: Highly (50-90%); Crystallinity: Subhedral; Grain Size: Fine; Range: Lithographic to Fine; Poor Induration; Cement Type: Dolomite; Accessory Minerals: Calcarenite - 02%; General Fossils: Benthic Foraminifera

1770 - 1800 ft Dolostone; Color: Dark Yellowish Brown (10YR 4/2) to White (N9); 8% Porosity: Intergranular, Vugular, Pinpoint; Alteration: Highly (50-90%); Crystallinity: Subhedral; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Dolomite; Accessory Minerals: Calcarenite - 02%, Gypsum - 10%; Other Features: High Recrystallization, Crystalline, Platy; General Fossils: Benthic Foraminifera; Comments: FIRST NON IN-FILLING GYPSUM

1800 - 1810 ft Dolostone; Color: Dark Yellowish Brown (10YR 4/2) to Very Light Orange (10YR 8/2); 5% Porosity: Intergranular, Pinpoint; Alteration: Highly (50-90%); Crystallinity: Subhedral; Grain Size: Fine; Range: Lithographic to Fine; Poor Induration; Cement Type: Dolomite; Accessory Minerals: Calcarenite - 02%, Gypsum - 05%; Other Features: High Recrystallization, Crystalline, Platy; General Fossils: Benthic Foraminifera

1810 - 1830 ft Dolostone; Color: Dark Yellowish Brown (10YR 4/2) to White (N9); 15% Porosity: Vugular, Pinpoint, Intergranular; Alteration: Completely (90-100%); Crystallinity: Euhedral; Grain Size: Fine; Range: Lithographic to Fine; Moderate Induration; Cement Type: Dolomite; Accessory Minerals: Calcarenite - 02%, Gypsum - 10%; Other Features: High Recrystallization, Crystalline, Platy; General Fossils: Benthic Foraminifera

1830 - 1850 ft Dolostone; Color: Grayish Brown (10YR 6/2) to White (N9); 5% Porosity: Pinpoint, Intercrystalline; Alteration: Highly (50-90%); Crystallinity: Subhedral; Grain Size: Fine; Range: Lithographic to Fine; Good Induration; Cement Type: Dolomite; Accessory Minerals: Calcarenite - 02%, Gypsum - 15%; Other Features: High Recrystallization, Crystalline, Platy; General Fossils: Benthic Foraminifera

1850 - 1860 ft Dolostone; Color: Grayish Brown (10YR 6/2) to White (N9); 2% Porosity: Pinpoint, Intercrystalline; Alteration: Highly (50-90%); Crystallinity: Subhedral; Grain Size: Fine; Range: Lithographic to Fine; Good Induration; Cement Type: Dolomite; Accessory Minerals: Calcarenite - 01%, Gypsum - 30%; Other Features: High Recrystallization, Crystalline, Platy; General Fossils: Benthic Foraminifera

1860 - 1870 ft Dolostone; Color: Very Light Orange (10YR 8/2) to Grayish Brown (10YR 6/2); 5% Porosity: Pinpoint, Intercrystalline, Vugular; Alteration: Highly (50-90%); Crystallinity: Subhedral; Grain Size: Fine; Range: Lithographic to Fine; Good Induration; Cement Type: Dolomite; Accessory Minerals: Calcarenite - 03%, Gypsum - 10%; Other Features: High Recrystallization, Crystalline, Platy; General Fossils: Benthic Foraminifera

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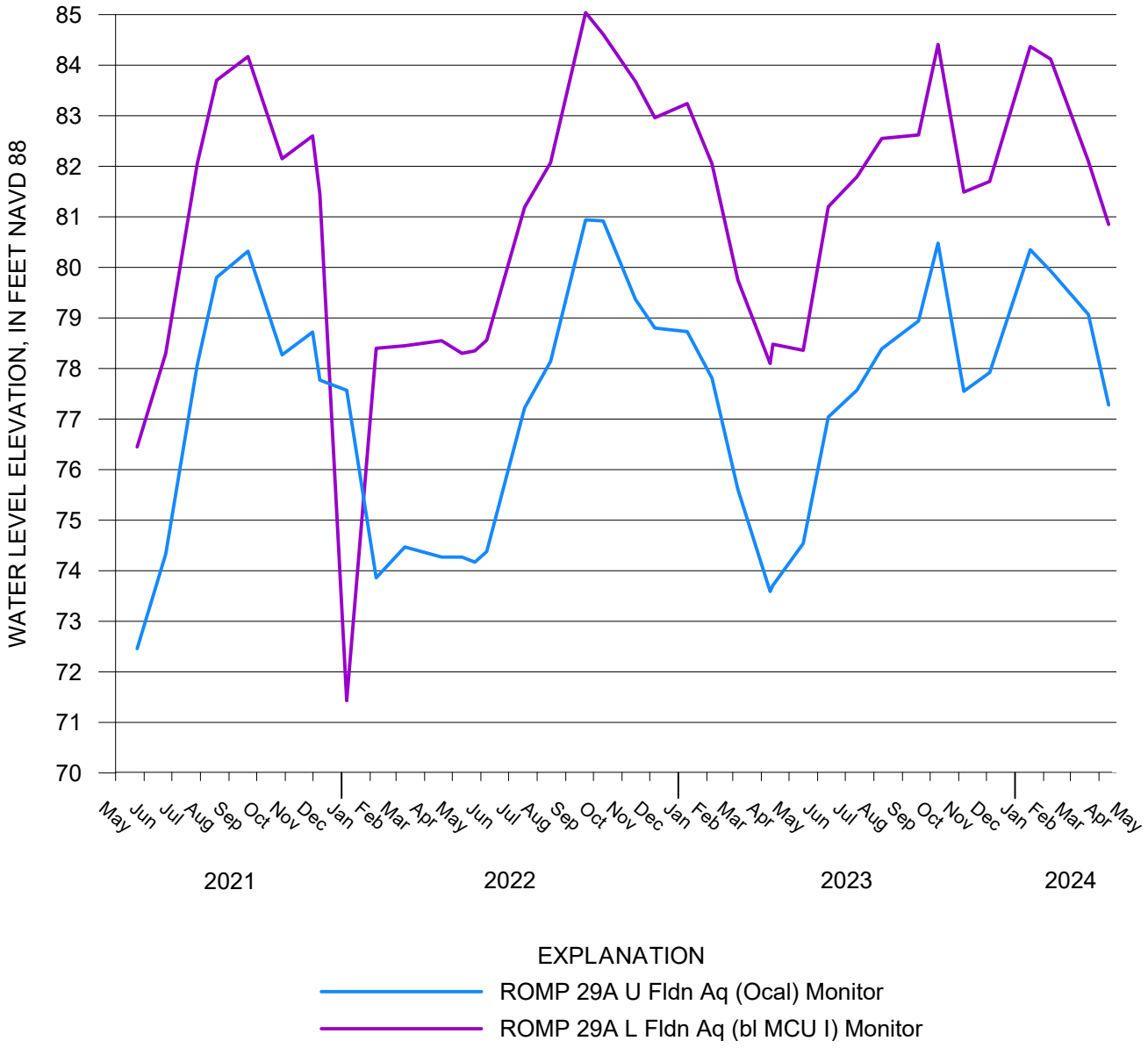
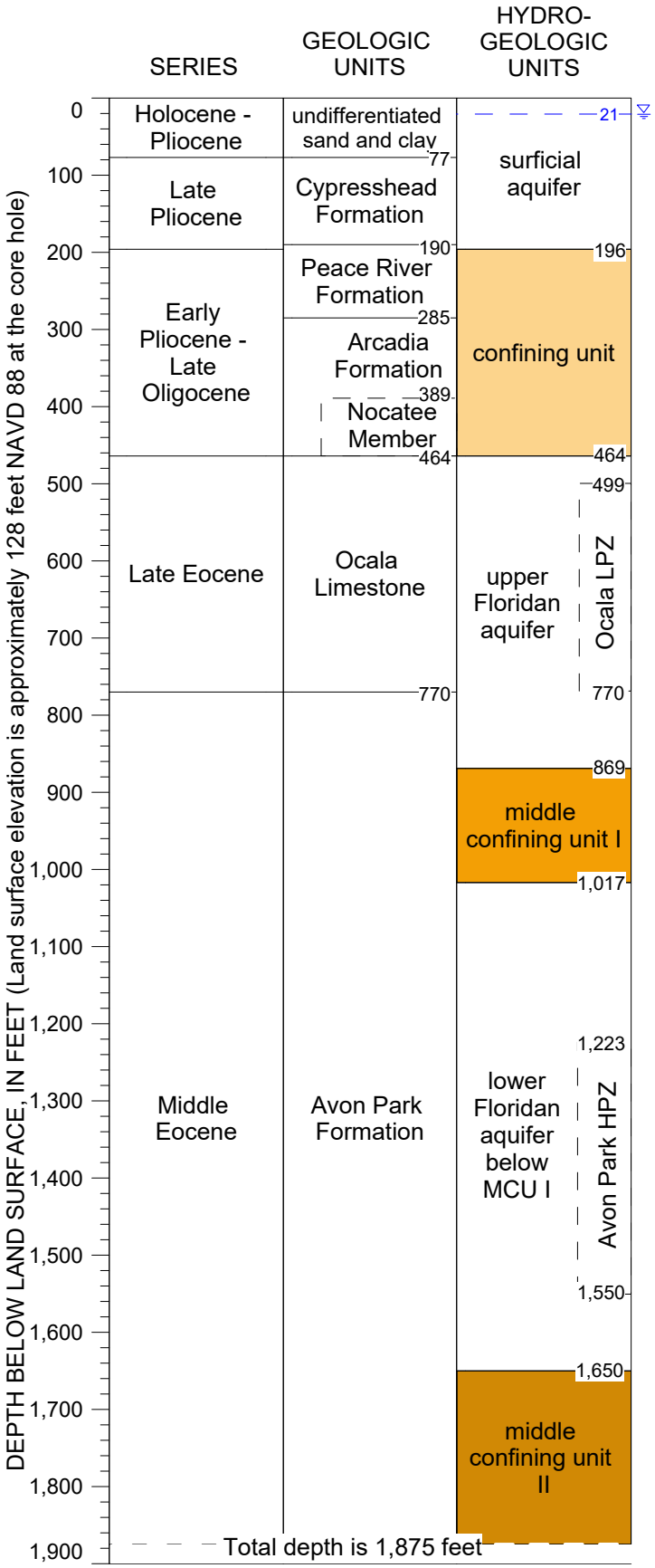


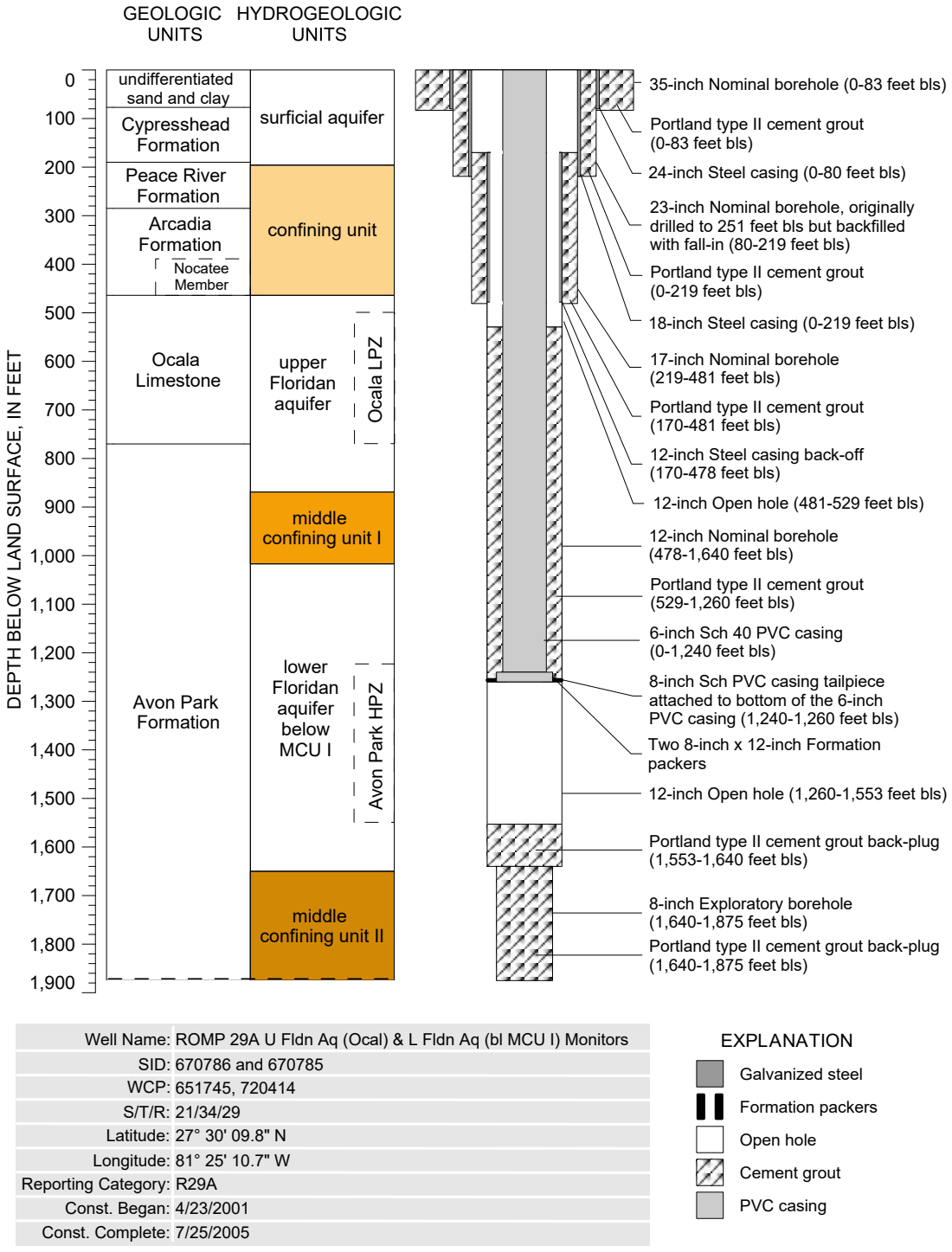
[Aq, aquifer; bl, below; Fldn. Floridan; L, lower; MCU, middle confining unit; NAVD 88, North American vertical datum of 1988; Ocal, Ocala; ROMP, Regional Observation and Monitor-well Program; U, upper]

Attachment 3. Hydrograph of the upper Floridan aquifer (Ocala) and lower Floridan aquifer below middle confining unit I monitors (dual-interval well) at the ROMP 29A – Sebring well site in Highlands County, Florida.



[HPZ, high-permeability zone; LPZ, low-permeability zone; MCU, middle confining unit; NAVD 88, North American Vertical Datum of 1988; water level based on average water level of core hole during exploration of the upper Floridan aquifer]

Attachment 4. Updated (as of 2024) stratigraphic column detailing the hydrogeologic setting at the ROMP 29A – Sebring well site in Highlands County, Florida. This figure supersedes figure 5 in original report.



[Aq, aquifer; bl, below; bls; below land surface; Const. Construction; Fldn. Floridan; L, lower; MCU, middle confining unit; N, North; Ocal, Ocala; PVC, polyvinyl chloride; ROMP, Regional Observation and Monitor-well Program; SCH, schedule; S/T/R, Section/Township/Range; SID, site identification; U, upper; W, West; WCP, well construction permit]

Attachment 5. Updated (as of 2024) figure showing the well as-built diagram for the upper Floridan aquifer (Ocala) and lower Floridan aquifer below middle confining unit I monitors (dual-interval well) at the ROMP 29A – Sebring well site in Highlands County, Florida. This figure supersedes figure 21 in original report.

ROMP 29A – Sebring

MONITOR WELL SITE

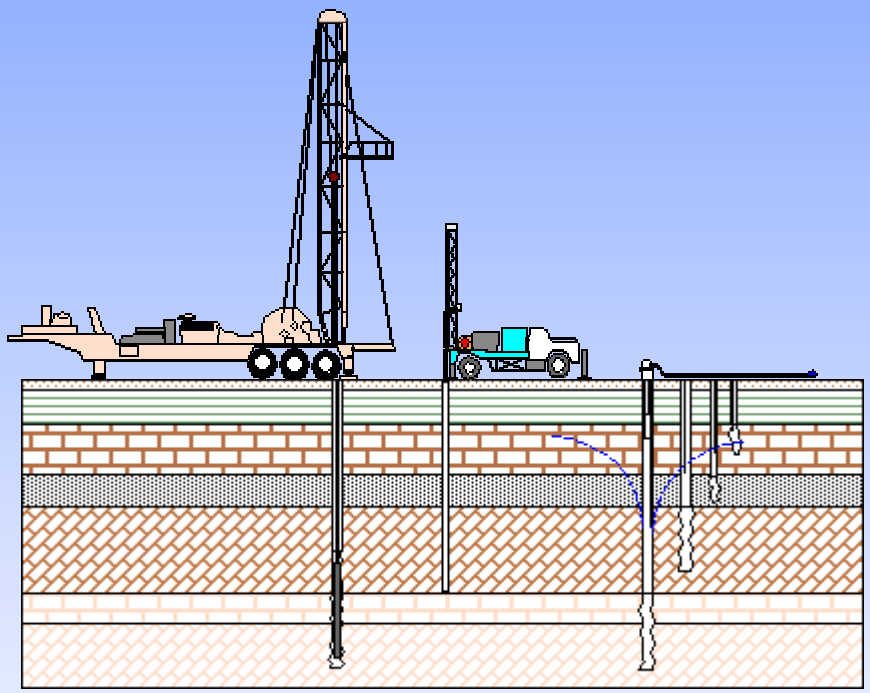
HIGHLANDS COUNTY, FLORIDA

FINAL REP0RT

EXPLORATORY CORING

MONITOR-WELL CONSTRUCTION

AQUIFER PERFORMANCE TESTING



Resource Data Section

Resource Conservation and Development Department

Southwest Florida Water Management District

2379 Broad Street

Brooksville, FL 34604-6899

October 2006

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HYDROGEOLOGY OF THE ROMP 29A SEBRING MONITOR WELL SITE HIGHLANDS COUNTY, FLORIDA

By J.L. Mallams
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October 2006

HYDROGEOLOGY OF THE ROMP 29A
SEBRING MONITOR WELL SITE REPORT
HIGHLANDS COUNTY, FLORIDA

October 2006

The geological evaluations and interpretations contained in the *Hydrogeology of the ROMP 29A Sebring Monitor Well Site Report* have been prepared by or approved by a licensed Professional Geologist in the State of Florida, in accordance with Chapter 492, Florida Statutes.

The majority of the data collection, well construction, and analysis was conducted or supervised by Richard A. Lee, PG956. Jerry L. Mallams, PG2249, finished the remaining fieldwork, and completed the review and finalization of the draft report.

_____

Jerry L. Mallams
Professional Geologist
License No. PG2249

Date: _____

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1.0 INTRODUCTION

The Southwest Florida Water Management District (SWFWMD or District) is charged with managing the water and water-related resources within its boundaries. This charge includes maintaining the balance between the water needs of current and future users while protecting and maintaining the natural systems that provide the District with its existing and future water supply. Data collections efforts, in part, conducted by the Regional Observation and Monitor-well Program (ROMP) are a necessary component of water resource management. The ROMP 29A Sebring site was designed and constructed to meet the objectives of the Highlands Ridge Water Resource Assessment Project (HRWRAP) and the ROMP. The ROMP 29A site is located within the Southern Water Use Caution Area (SWUCA) and is also part of a continued investigative effort of this region. The purpose of this well site is to determine the hydrogeology of the area and to construct a multiple well monitor site for long-term data collection.

The hydrogeologic investigations at ROMP 29A were planned in three phases: 1) Core Drilling and Testing, 2) Monitor Well Construction, and 3) Aquifer Performance Testing (APT). The ROMP 29A core data were included in a detailed study into the stratigraphic history of the encountered geologic units. The results of this study were published by the United States Geological Survey (USGS) in Open-File Report 03-201, entitled *Sequence-Stratigraphic Analysis of the Regional Observation Monitoring Program (ROMP) 29A Test Corehole and Its Relation to Carbonate Porosity and Regional Transmissivity in the Floridan Aquifer System, Highlands County, Florida.*

2.0 PROJECT DESCRIPTION

The objectives of the HRWRAP are to vertically characterize water levels and water quality throughout the surficial, intermediate, and Upper Floridan aquifers; and into the middle (Floridan) confining unit. The goal is also to identify and monitor all significant production intervals, and to increase our knowledge of the spatial distribution and hydraulic relationships of aquifers and their confining units. This site is also part of the ROMP's ten-mile grid network of potentiometric and ground-water quality monitor wells. The ROMP 29A well site compliments two other Highlands County, Lake Wales Ridge well sites, ROMP 28 (Kuhlman) and ROMP 14 (Hicoria).

The District's core drilling staff moved on the ROMP 29A well site on November 7, 2000 with a Central Mining Equipment (CME) 85 coring rig. The District crew finished coring and moved off-site on April 26, 2001. Diversified Drilling Corporation (DDC) moved on-site on April 23, 2001 and was contracted to drill three permanent observation (OB) wells and two temporary OB wells for the APT. In addition to the well construction, DDC conducted exploratory drilling to a depth of 1,875 feet below land surface (BLS). The DDC crew moved off-site on October 10, 2001. All temporary wells used during the APTs, were properly abandoned and the permanent wells lined as necessary.

3.0 SITE LOCATION

The ROMP 29A (Sebring) well site is located east of Sebring (Figure 1), just outside city limits at the Highlands County School Administration office complex. The well site can be found by proceeding north on State Route (SR) 17 (Highlands Boulevard) from the intersection of United States (US) Highway 27 and SR 17. Highlands Regional Medical Center is located on the southeast corner of the intersection of US Highway 27 and SR 17. After crossing over two sets of railroad tracks, turn right onto Tangerine Street and head east. Turn left onto School Street, school administration offices are located on the northeast corner, and proceed to last driveway of administration offices and turn right and up into the well site on the left. The site is located on the Lake Arbuckle SW, FL, 7.5-minute USGS quadrangle.

The well site consists of a perpetual easement (SWF Parcel No. 20-020-075) within a temporary construction easement (SWF Parcel No. 20-020-075B) and is accessed by an ingress/egress easement (SWF Parcel No. 20-020-075A). The perpetual easement is for the permanent wells and is 20 feet by 60 feet and is located at the eastern end of the temporary construction easement. The temporary construction easement is 280 feet by 125 feet with a 100 feet by 50 feet piece missing out of the southwest corner. The practical access to the well site is from School street and up the administration driveway, but the 15-feet wide ingress/egress easement winds it's way from Tangerine Street across the back of the site and up to the permanent easement. The corehole, water supply well, and two temporary APT wells were drilled on the temporary construction

easement and three permanent wells were drilled within the permanent easement. Figure 2 is a site layout that diagrams the above information.

The ROMP 29A (Sebring) well site in located in the SE ¼ of the SE ¼ of Section 21, Township 34 South, Range 29 East at latitude 27º 30' 09.5" North, longitude 81º 25' 11.9" West. The well site is at an elevation of approximately 128 feet above the National Geodetic Vertical Datum of 1983 (NGVD).

4.0 DRILLING METHODS AND DATA COLLECTION

The overall objective of the data collection effort was to delineate and characterize the hydrogeologic framework at the ROMP 29A (Sebring) well site. The following program of drilling and testing was designed to accomplish this objective.

4.1 Exploratory Drilling and Testing

The District's core drilling crew began mobilizing to the ROMP 29A well site on November 7, 2000. The first well was augured on-site near the center of the well site as a water supply well, and was used for drilling water and to mix drilling mud. The well was augured to 80 feet BLS with 10 ½-inch outside diameter (OD), 6 ¼-inch inside diameter (ID) augers, into which 50 feet of four-inch PVC screen and 30 feet of PVC casing was placed. The PVC was sanded in as the augers were removed. Lithologic (unconsolidated sand and clay) samples were collected from the auger flights as the well was drilled and placed in sample collection bags and labeled.

The CME 85 coring rig was moved to the northwestern corner of the well site and set up for the corehole operation. Forty feet of 16-inch PVC casing was set into a mud-rotary drilled 21-inch hole and grouted to land surface. The well was then mud-rotary drilled with a 14 ¾-inch tri-cone rock bit to a depth of 250 feet BLS, into which ten-inch PVC casing was lowered to bottom and pressure-grouted with five percent bentonite cement grout. A second batch of grout tremmied into the annulus brought the cement up to land surface. Unconsolidated sediment samples were collected on ten-foot intervals from 80 feet to 250 feet BLS, bagged and labeled. Temporary, four-inch HW casing was then lowered to bottom and rotated down and set at 256 feet BLS. The NQ core rods were

then lowered to bottom and unconsolidated core samples were collected to 285 feet BLS. The HW casing was then advanced to 294 feet BLS with rock bag samples collected during the procedure. The NQ core rods were then lowered to bottom and core was collected by drilling with water on five-foot intervals to a depth of 494 feet BLS. The NQ core rods were removed and the corehole was reamed with a 9⅞-inch tri-cone rock bit to 494 feet BLS. The well was then logged with the District's geophysical tools from 294 feet to 494 feet BLS, creating a full suite of geophysical logs for the intermediate confining unit.

The final casing string was then emplaced to 494 feet BLS. Six-inch PVC casing was glued, screwed, lowered to bottom, and pressure-grouted with five percent bentonite cement grout. Two other tremie groutings brought the cement back to land surface. The four-inch HW casing was then lowered to the bottom of the hole, followed by the NQ coring rods and bit. The HW casing became unseated and was advanced to 496 feet BLS. This casing seat effectively isolated the intermediate confining unit from the Upper Floridan aquifer, promoting accurate collection of water-quality samples and water levels from the Upper Floridan aquifer.

Coring proceeded without any further advancement of the four-inch HW to the total depth of 1,244 feet BLS. The coring procedure generally entailed drilling with the core bit for five feet and extracting the inner core barrel via a wireline system. The Longyear®, NQ wireline, inner barrel assembly allows a 1⅞-inch x 5 foot (or shorter) core to be retrieved through the inner bore of the drill rods without having to remove all the drill rods from the well (Figure 3). The core was then placed in core boxes, depths marked, and recovery estimates calculated. Detailed lithologic descriptions of core, cuttings, and unconsolidated sediments, using a rock color chart, hand lens, microscope (when available), grain size chart, and fossil identification guide, were then made by the on-site geologist and recorded on core description sheets. All lithologic samples are archived at the Florida Geological Survey in Tallahassee, Florida.

The recovered core serves to delineate and characterize the hydrogeologic framework of the site. This is accomplished by its utility to pick formation boundaries, and to guide the packer testing and well designs efforts. Packer tests were performed throughout the drilling of the intermediate and Upper Floridan aquifers to help determine hydraulic

characteristics of the different geologic formations. Sixteen packer tests were conducted while coring and seven additional tests were conducted in the lower portions of the Upper Floridan aquifer by a contract well driller.

With the exception of the initial 80 feet of surficial sediments that were hollow-stem augured for the water supply well, the surficial aquifer system was tri-cone drilled using bentonite mud as the drilling fluid to stabilize the surficial sands. This mud-rotary drilling was done at the expense of water level and water quality profiling through the surficial aquifer system. A water quality sample was taken from the finished water supply well at a later date.

During coring and reverse-air drilling (below 1,244 feet BLS), drilling discharge water quality was monitored regularly with a conductivity/temperature meter. This data creates a water quality profile and identifies changes in water quality, which coupled with changes in rock type, indicated zones that needed to be tested using the dual-element packer. The compiled packer tests created the best possible water quality profile, using discreetly sampled intervals at the bottom of the hole as the well was advanced.

4.2 Packer Testing

A competent borehole is needed for packer testing of the corehole. As a result the upper 300 feet of the corehole was not tested since only unconsolidated sediments (sands and clays) were encountered. The first application of the packer was at a depth of 366 feet BLS, within the intermediate confining unit.

The dual-element packer was deployed inside the NQ core rods until the bottom of the packer extended through the bottom of core rods and seated around the core bit. The packer was lowered on a combination cable/air inflation line. The upper element inflates inside the core rods and the lower element inflates inside the borehole. The packer was emplaced by raising the drill rod to a predetermined point, lowering the packer to the bottom of the rods by way of the combination cable/air inflation line, and inflating the packer with nitrogen. This process isolated the interval of the borehole located from the packer to the bottom of the hole (Figure 4).

During drilling with the contract driller, the entire drill string had to be removed before installing the packer. The hole was then logged with a geophysical caliper tool from the bottom of the hole up beyond where the packer was to be set to determine the best place to set the packer. The packer was then attached to the bottom of the drill string and lowered into the well to the predetermined depth and inflated.

4.2.1 Hydraulic Testing

Hydraulic properties were estimated using "slug tests". These tests were conducted using the dual-element packer, isolating different intervals as the well was being advanced. A standpipe was attached to the top of the drill rods with a T-fitting to attach a water line for filling the rods. A 100 pounds per square inch (psi) pressure transducer (PXD) was lowered into the test interval from the top and a 15 psi PXD was lowered into the annulus and connected to a In-Situ® Hermit 3000 data logger. During testing, a slug of water was pumped into the standpipe and was allowed to flow into test intervals of the corehole. The PXDs in the test interval and annulus measured fluctuating water levels and the In-Situ® Hermit Data Logger recorded the measured data in a logarithmic period until a user-specified interval is reached. The annulus water level may move as a result of a poorly seated packer or physical connection (i.e. fractures or very permeable rocks) within the formation. In cases where the annulus water level change was determined to be unacceptable, the packer was moved either up or down hole slightly and reset. The water level in the well was measured at the beginning of the test with the PXD and then the rods (standpipe on top included) were filled with water. Once the rods were filled, pumping continued overflowing the standpipe for approximately five minutes to allow any entrained air to work its way out of the rods. This process of overflowing the rods disallowed estimates of the volume of water pumped during the test and lengthens the slug initiation time. Once the air dissipated, the pump was turned off and the PXD recorded the water level as it returned to the static level. During exploratory drilling, the "slug tests" were initiated by using a similar technique of pumping water into the drilling rods and allowing the water recover to static.

During a slug test, the rate of water level recovery is proportional to the permeability of the formation. Therefore, the slower the water level recovery the less permeable the formation. Hydraulic conductivity (K) values were calculated for each of the "slug tests" performed using AQTESOLV® software and by applying the Butler, KGS, and Hvorselv

methods for analyzing "slug tests". The field methods have three main limitations resulting in possible performance errors: 1) non-instantaneous test initiation, 2) a packer orifice restriction, and 3) no estimate of initial slug. These sources of error will tend to underestimate the calculated K value. It is recommended that the K values not be used quantitatively but rather as an indicator of more or less permeable zones.

Specific capacity results were also calculated using a discharge rate and measured drawdown in the well during water-quality sample purges as specified in equation (1). The equation is:

$$SC = Q / s \qquad (1)$$

Where SC is the specific capacity, Q is the discharge or pumping rate, and s is the maximum drawdown in the "well". Specific capacity represents the amount of water a well produces per foot of drawdown, typically measured in gallons per minute per foot of drawdown (gpm/ft dd). Drawdown was not always measurable due to different air-lifting (pumping) head systems and therefore specific capacity was not calculated at every depth.

Specific capacity can be used to give approximate transmissivity values of the open-hole interval being pumped. Based on a solution by Theis (1963), one can make an estimate of the transmissivity of an aquifer from the specific capacity of a well (Fetter, 2001). The equation is:

$$T = \frac{Q}{(h_o - h)} \frac{2.3}{4\pi} \log \frac{2.25Tt}{r^2 S} \qquad (2)$$

where

$Q/(h_o-h)$ is the specific capacity of the well ($L^3/T/L$ or L^2/T)

t is the period of pumping (T)

r is the radius of the pumping well (L)

T is aquifer transmissivity (L^2/T)

S is aquifer storativity (dimensionless).

During these specific capacity tests water was removed from the "well". This made the direction of flow from the formation to the "well", which is opposite from the previously described "slug tests". The packer orifice remains a limiting factor on flow through the well resulting in uncertain results. The impact to the specific capacity results is a potentially larger drawdown at a specific discharge rate resulting from the loss of head as the water moves through the orifice. This impact will result in a lower than expected specific capacity and estimated transmissivity value from these tests. Additionally, accurate water-level measurements are difficult to collect during the use of airlifting techniques. Like the parameters calculated from the "slug tests", it is recommended that the K values not be used quantitatively, but rather as an indicator of more or less permeable zones.

The results of the hydraulic testing serves as a major component in the delineation of the hydrostratigraphic units of the well site. Typically, hydrostratigraphic units are delimited and unified by its observable hydrologic characteristics, such as porosity and permeability (Seaber, 1988). The delineations are made knowing the major hydrostratigraphic units of the region, which are:

1. surficial aquifer system;
2. intermediate aquifer system/intermediate confining unit;
3. Upper Floridan aquifer; and
4. middle confining unit II.

4.2.2 Water Quality Sampling

The dual-element packer was deployed inside the NQ core rods, isolating the interval of the borehole located from the packer to the bottom of the hole. Three well volumes were then purged to ensure water from the formation was drawn into the "well". A stainless steel bailer was lowered to just above the packer where the water sample was collected and retrieved. A second sample was also retrieved to compare with the first, and if conductivities were different a third sample was collected and one of the two similar samples was processed.

The water sample was transferred to a clean plastic graduated container and temperature in degrees Celsius (ºC), fluid conductivity in micromhos per centimeter

(umhos/cm), and pH in standard units (SU) were measured. The water was then filtered through a 0.45 micron filter membrane and tests for sulfate and chloride were performed with Hach® kits. A graduated cylinder was also filled and water density was measured with a hydrometer. Two 500-milliliter (mL) sample bottles were filled with filtered water and one 250 mL bottle was filled and acidified with nitric acid to preserve metals. The bottles were labeled and placed on ice to be delivered to the District's laboratory. Chain-of-custody forms were completed to accompany the bottles to the laboratory. The laboratory conducted a standard analysis which included the following chemical parameters: calcium, chloride, fluid conductivity, iron, magnesium, pH, potassium, silica, sodium, sulfate, total dissolved solids (TDS), total alkalinity, total hardness, and ion balance.

4.3 Geophysical Logging

Borehole geophysical logs were run during various stages of drilling and well construction in all of the wells onsite. The three main types of geophysical tools used were the Caliper/Gamma, Multi and Induction. The Caliper/Gamma tool was used most frequently to measure the diameter of the borehole prior to packer tests in the exploratory well. The Multi-tool measures several parameters that include Gamma, Spontaneous Potential, Single Point Resistance, Short-Long Normal-Resistivity, Temperature, and Specific Conductance. The Induction tool also measures several parameters, which include Gamma, Conductivity, Resistivity and calculates Apparent Conductivity. These parameters are described below. It was important to run these tools prior to casing advancements, while the borehole was still open, to measure formation properties. The Caliper tool was also useful to measure borehole dimensions for grout volume calculations, when installing permanent casing.

Geophysical logging a well entails lowering a tool into the monitor well on a wireline and measuring the tool's response, during retrieval, to the formations and water quality in and near the borehole. Geophysical logs are useful in determining subsurface geologic and ground-water characteristics (Fetter, 2001). Geophysical logs provide three major types of information from water wells: hydrologic (water quality, aquifer characteristics, porosity, and flow zone detection), geologic (lithology, formation delineation), and physical characteristics of the well (depth, diameter, casing depth, texture of wellbore,

packer points, and integrity of well construction). Geophysical logging can be a useful tool in determining water quality with depth. The fluid conductivity probe is especially important when measuring an increase in ions such as chloride and sulfate in the water. As chloride, sulfate, and TDS concentrations in the borehole increase due to water-quality degradation, the conductivity of the water will increase. The caliper log indicates the wellbore geometry, which aids in the calculations of the amount of well construction materials needed for well completion. Types of data collected by these geophysical probes are briefly explained below.

Caliper (CAL) logs record borehole diameter. This log is useful for packer and casing placement because well-indurated layers can be located and borehole volumes can be calculated. This log can be used to infer lithology as well as document final well specifications.

Gamma [GAM(NAT)] logs record the amount of natural gamma radiation (an estimate of natural radioactivity) emitted by the rocks surrounding the borehole. Radioactive isotopes present in certain types of geologic materials emit natural gamma radiation. Low permeability clay units tend to absorb cations that occur naturally in aquifer formations and migrate with groundwater, and by measuring the amount of natural gamma radiation present, the lithology can often be inferred. Natural gamma radiation can be measured through both PVC and steel casing, but is slightly attenuated by steel casing. Borehole configuration and well construction may also affect measurements. Because natural gamma is measurable through casing and is fairly consistent over time, it is often used as a marker log trace to correlate hydrogeologic features with depth.

Spontaneous Potential (SP) logs are generally most useful when there is a significant conductivity (salinity) difference between borehole fluids and formation interstitial fluids (i.e. mud vs. water). The SP log is not considered particularly useful when a well is drilled with water or reverse air, due to the lack of contrast between the formation and borehole waters.

Single-Point Resistance [RES(OHM)] logs record the electrical resistance from points within the borehole to an electrical ground at land surface. Resistivity properties of formation materials can be measured by application of electric current between two electric probes and measuring the potential drop between the two.

Short-Long Normal-Resistivity (RES 16N, RES 64N) logs record the electrical resistivity of the borehole environment and the surrounding rocks and water as measured by variably spaced (16-inch = short and 64-inch = long) potential electrodes on the logging probe. Resistivity (16N and 64N) methods are well suited for locating highly resistive geologic materials, such as homogenous materials like limestone or dolostone or clean well-sorted sandstone. Resistivity logs, however, cannot be collected through PVC or steel casing and therefore are only useful in open boreholes. Resistivity logs are also good indicators of a breach or break in casing. They are also affected by the open borehole diameter, and by saline water in the borehole or formation.

Temperature (TEMP) logs record the water temperature in the borehole. As previously indicated, deflection of the temperature log may indicate a change in permeability of the rock where water is entering (or exiting) a borehole or it may indicate a water quality change.

Specific Conductance (SP COND) logs record the relative electrical conductivity of the borehole fluid with depth. The SP COND log and TEMP log may be useful in determining permeable zones, where in-flowing or out-flowing water may show conductivity and temperature changes from the borehole fluid water or a change in water quality in a uniformly permeable zone.

Video logs record a continuous image of the borehole with depth. A video log is a useful tool to observe things such as borehole geometry, fractures and conduits, lithologic contacts, casing condition, as well as observe obstructions that may be in the borehole.

4.4 Aquifer Performance Testing

Three APTs were conducted at this site: a surficial aquifer system test, intermediate confining unit, and an Upper Floridan aquifer test. Each test consisted of a pumped well and an observation (OB) well. Background data were collected prior to each test; time-drawdown data was collected in both the pumped and OB wells during the test; and time-recovery data was collected after the pumping period in the pumped and OB wells.

Water-level data were measured and recorded using In-Situ® PXD-261's and an In-Situ® Hermit 3000 data logger. Analysis of the response curves were conducted with AQTESOLV ® Version 3.50.

The surficial aquifer system analysis uses the Neuman (1974) solution for unconfined aquifers with delayed release from storage, the Theis (1963) method for analyzing specific capacity data, and Distance-Drawdown method (Weissman & others, 1977). The Upper Floridan aquifer analysis uses the Theis (1935) solution for confined aquifers. The intermediate confining unit test was unsuccessful due to the poor productivity of the system. During the intermediate test, water levels in the pumped well declined very rapidly and did not stabilize even at small pumping rates. No drawdown was observed in the OB well.

4.5 Slug Testing

Due to difficulties in conducting an APT on the intermediate confining unit a slug test was performed in order to estimate K. The slug test consisted of inserting a five-foot slug of water into the permanent Intermediate Aquifer Monitor Well and observing the water levels as they recover back to static. Two requirements of the field methods included knowing the expected slug magnitude and inserting the slug nearly instantaneous relative to formation response. The slug consisted of 7.34 gallons (27.8 liters) of water or five feet of expected displacement in the six inch well casing. The water was suspended over the well in a fabricated funnel device with a valve. To release the water and initiate the slug test the valve was opened. The expected displacement and the observed displacement were used to calculate a discrepancy value (Equation 3).

$$\text{Discrepancy} = ((H_0^* - H_0)/ H_0^*) \times 100\% \qquad (3)$$

Where H_0^* is the expected displacement and H_0 is the observed or initial displacement. A discrepancy less than 10 percent would indicate that the slug test was initiated nearly instantaneous relative to formation response (Butler, 1998).

Water-level data collection was started a few seconds prior to the initiation of the slug test. These water-level data were measured and recorded using a 20 psi In-Situ® PXD-261 pressure transducer and an In-Situ® Hermit 3000 data logger. Analysis of the response curves were conducted with AQTESOLV ® Version 3.50.

5.0 GEOLOGY

The ROMP 29A (Sebring) well site lies on the Lake Wales Ridge within the Central Highlands physiographic province (White, 1970) at an elevation of approximately 128 feet NGVD. The other surrounding physiographic regions include the Osceola Plain to the east, Okeechobee Plain to the southeast, Intraridge Valley to the west, and the DeSoto Plain further to the west. The well site is located on the US Geological Survey's Lake Arbuckle SW, FL 7.5-minute Quadrangle in Section 21, Township 34 South, Range 29 East. As indicated by the contours on the 7.5-minute quadrangle, surface drainage is generally to the east and south from the well site into a series of low-lying wetlands. These wetlands are approximately 100 feet above sea level, or 28 feet below the well site elevation.

The geology encountered, in ascending order, consisted of the Avon Park Formation, the Ocala Limestone, the Suwannee Limestone, the Arcadia Formation, the Peace River Formation, and the undifferentiated (Pliocene – Holocene) surficial deposits. The lithologic data from the unconsolidated mediums were determined from bag samples from auger flights to 80 feet BLS and from mud-rotary methods to 250 feet BLS. Coring began at 285 feet BLS and continued to 1,244 feet BLS. Reverse air drilling was conducted to 1,875 feet BLS. The composite lithologic log created from the lithologic description sheets can be seen as Appendix A. Figure 5 depicts the geology and hydrogeology described at the ROMP 29A Sebring well site.

5.1 Avon Park Formation (Middle Eocene)

The Avon Park Formation (769 feet to greater than 1,875 feet BLS) is a Middle Eocene aged carbonate and generally consists of alternating beds of calcarenite and dolomite. Hard fractured dolomites near the base of the formation are typically very transmissive and produce some of the highest volumes of water from the Upper Floridan aquifer. As

in many regions of the District, the Avon Park at ROMP 29A grades downward into evaporitic sediments of the middle confining unit II of the Floridan Aquifer System. Gradual infilling of pore space with gypsum and anhydrite results in a major reduction in permeability and porosity of the carbonates.

The transition into the Avon Park Formation was marked by black organics in fossil mollusk molds and a marked increase in porosity from the molds. The upper portion of the Avon Park Formation (769 feet – 960 feet BLS) consisted of alternating beds of fine-grained calcarenite, dolostone and clay with abundant fossil mollusk and echinoid fragments and molds.

Dolomite became an accessory mineral in the lower portion (960 feet – 1,100 feet BLS) of the formation. The secondary porosity associated with fractures was observed in this portion of the formation, which was identified by the occurrence of slickensides in the core samples. Forams also became the dominant fossil and mold present near the bottom.

From 1,100 feet to 1,223 feet BLS alternating beds of fine-grained calcarenite and dolostone again become dominant with basal units also displaying slickensides along fault planes.

Within the next portion of the Avon Park (1,223 feet to 1,550 feet BLS), porosity increased significantly as the top of the hard fractured dolomite was encountered. A green coating was evident along several of the fracture planes. Forams were the dominant fossil type and abundant. Cavings containing Nummulites sp. were found in this section. The fractured dolostones overlaid a couple thin units of calcarenite and then became predominately dolostone with calcarenite as an accessory.

Within the section from 1,620 feet to 1,800 feet BLS, very-fine to fine dolostone was the primary carbonate. Forams were still the dominant fossil type present. At 1,800 feet BLS, the first nodule of non-pore infilling or larger pieces of evaporitic material was encountered. From 1,810 feet to 1,830 feet BLS there was a noticeable increase in porosity, but it was bounded above and below by low permeability evaporitic beds. Benthic forams were also present throughout these dolomitic rocks.

5.2 Ocala Limestone (Late Eocene)

The Ocala Limestone (499 feet to 769 feet BLS) is Late Eocene in age and typically consists of chalky calcarenite and calcilutite. The limestone was very light orange to yellow gray, very fine to fine grained, poorly to moderately indurated, calcilutitic clay to calcilutite. Much of the upper part of the Ocala Limestone (512 feet – 589 feet BLS) was dolomitic in nature. Fossils included mollusks and abundant foraminifera (*Lepidocyclina ocalana* and *Nummulites sp*.) and one occurrence of an echinoid test.

5.3 Suwannee Limestone (Oligocene)

The Suwannee Limestone (461 feet to 499 feet BLS) is Early Oligocene in age and is typically composed of very light orange to light gray, microcrystalline to medium grained, poorly to moderately indurated, calcarenite to calcilutite limestone. The Suwannee Limestone at the ROMP 29A well site was extremely thin. The Suwannee only extended for 38 feet before foraminifera characteristic of the Ocala Limestone were encountered. An echinoid located near the very top (466 feet bls) of the limestone was sent to the Florida Museum of Natural History for identification. Robert Portell, a fossil expert at the museum identified the echinoid as Rhyncholampas gouldii, which is an Oligocene or Suwannee Limestone fossil. If not for the gouldii echinoid, this thin section of limestone may have been included in the Ocala Limestone as lithologic differences were very subtle.

The contact with the overlying Arcadia is unconformable, as there were limestone rip-up clasts mixed with the very fine sands of the supradjacent Nocatee Member. The contact with the subjacent Ocala Limestone was more gradual (transitional) with a subtle change in lithology and color. Phosphate sand cavings were observed throughout the Suwannee Limestone.

5.4 Arcadia Formation (Late Oligocene – Miocene)

The Arcadia Formation extends from 285 feet to 461 feet BLS, including the Nocatee Member. The Arcadia Formation consists of carbonate units of limestone and

dolostone, interbedded with quartz sands, clays, and phosphate. Thin beds of quartz sand and clay are generally present throughout the formation. The Arcadia Formation consists of a quartz sandy, phosphatic, clayey, and yellowish gray to light olive gray, fossiliferous limestones and dolostones. Dolostone is typically the dominant carbonate. The induration of the dolostone, ranges from low to high and is moderately to highly altered. Phosphate content commonly ranges from five to 25 percent.

At the ROMP 29A well site, the upper portion of the Arcadia Formation is classified as undifferentiated Arcadia Formation, and overlies the Nocatee Member of the Arcadia Formation. The upper unit is almost entirely very fine quartz sand with varying amounts of phosphate sand and gravel and cemented loosely to firmly with clay and calcilutite. The unit also includes lesser amounts of fine and medium grained quartz sand and minor amounts of mica.

5.4.1 Nocatee Member of the Arcadia Formation

The Nocatee Member of the Arcadia Formation is a distinct unit of the lower Arcadia, which is typically a complex mixture of quartz sands, clays and carbonates with varying amounts of phosphate. The Nocatee Member at ROMP 29A begins at 389 feet BLS and extends to a depth of 461 feet BLS. The top five feet of the unit was dolomitic and fairly well indurated. The next six feet was clayey very-fine sand with five to 15 percent phosphate sand and gravel. This part of the Nocatee Member also had the highest porosity percentages, ranging up to approximately 35 percent for a thin section. The next 40 feet was sandy clay with phosphate sand and gravel content ranging from five to 20 percent. The lower 20 feet of the unit was a calcareous-clayey sand unit with approximately five percent phosphate. Within this lower unit, a couple of limestone stringers exist, one of which had mollusk fossil molds and fragments.

5.5 Peace River Formation (Miocene – Pliocene)

The Peace River Formation was encountered at 196 feet BLS and extended to a depth of 285 feet BLS. The Peace River Formation is a siliciclastic unit of interbedded quartz sands, clays, carbonates, and phosphate. Phosphate concentrations vary considerably, especially if the Bone Valley Member of the Peace River is present, which is not the

case at the ROMP 29A well site. Quartz sand ranges in grain size from very fine to medium and is generally poorly consolidated. The sand is sometimes clayey or calcareous to dolomitic, light gray, yellowish gray to olive gray in color. Fossils in the dolostone are generally moldic impressions of mollusks, foraminifera, and coral.

The top of the Peace River Formation at the ROMP 29A well site was a progressively more competent clay unit approximately 30 feet thick. This clay unit, which separated the overlying undifferentiated sands and clays from the Peace River Formation, was sandy with fine to medium sand, orange to pale yellow in color and non-calcareous. The orange pink clay above 216 feet bls may represent weathering and reworking of the top of the Hawthorn sediments. As the clay became less dominant, the phosphate percentage increased. Below the clay was an unconsolidated green-grayish, very fine to fine-grained sand unit, which became calcareous with depth and extended for approximately 60 feet to a depth of 285 feet BLS. Mica was also present in very small amounts in this lower sand unit. The base of the Peace River Formation was determined to be where siliciclastic (quartz sand) material became less dominant and carbonate (calcarenite) became the primary constituent. Shell and mica was observed in the samples of the Peace River Formations, which were most likely cavings.

5.6 Cypresshead Formation (Pliocene)

The Cypresshead Formation extended from a depth of 77 feet to 196 feet bls. This formation consisted of a white to pinkish gray, very fine to medium grained, quartz sand with minor amounts of clay. Shell fragments and minor amounts of phosphate from 116 feet to 146 feet BLS indicate a shallow marine depositional system with associated beach and dune sand deposits. An increase in clay content in the sand began approximately 190 feet BLS and increased to become moderately indurated sandy clay. This clay was orange to pale yellow and turned grayish with depth and marked the transition into the underlying Peace River Formation.

5.7 Undifferentiated Surficial Deposits (Pliocene – Holocene)

The uppermost geologic unit in the vicinity of the ROMP 29A well site is the undifferentiated surficial sand and clay deposits, which extend from land surface to a

depth of 77 feet BLS. This sand is generally very fine to fine grained with major iron staining in the top 25 feet. The sediments were unconsolidated and had an orange to yellow color. A very small percentage of organic material and phosphate grains also exist throughout the surficial deposits.

6.0 HYDROLOGY

There were four major hydrostratigraphic units encountered at the ROMP 29A well site. The hydrostratigraphic units included the surficial aquifer system, intermediate confining unit, Upper Floridan aquifer, and the middle confining unit II (Miller, 1986). The water levels in the surficial aquifer system, intermediate confining unit and Upper Floridan aquifer are around 25 feet BLS, 45 feet BLS, and 50 feet BLS, respectively. This increasing depth to water with successively deeper hydrostratigraphic units indicates a recharging system. This means water has the potential to flow down from the surficial aquifer system into and through the intermediate confining unit to the Upper Floridan aquifer.

Much of the intermediate confining unit was a fine-grained calcarenite of low permeability. The hydraulic properties of the intermediate sediments are two to three orders of magnitude smaller than the overlying and underlying units and therefore functions as a confiner between the two. The highest permeabilities encountered were in the Upper Floridan aquifer within the fractured dolomite rocks of the Avon Park Formation.

6.1 Surficial Aquifer System

The surficial aquifer system (Figure 5) is the upper most hydrostratigraphic unit at the ROMP 29A well site. This system is open to the atmosphere, thus being classified as an unconfined aquifer. This system is contained within the undifferentiated surficial deposits (Pliocene – Holocene) described in Section 5.6. This system extends from the water table (~25 feet BLS) to 196 feet BLS. Measurements from the water supply (Figure 6) well taken during the well construction phase (May to September of 2001) indicate that the water level fluctuated between 21 and 27 feet below an arbitrary measuring point near land surface. These changes were primarily due to seasonal fluctuations in rainfall.

6.1.1 Aquifer Performance Test

The APT on the surficial aquifer system was conducted at a rate of 232 gallons per minute and for a duration of 5,218 minutes (3.6 days). The pumped well was a fully penetrating 12-inch screened well; water-level measurements were made in two pumped zone wells, the permanent Surficial Monitor Well and the temporary water supply well. The response data from the APT was analyzed using the solution method by Neuman (1974) solution for unconfined aquifers with delayed release from storage, the Theis (1963) method for analyzing specific capacity data, and Distance-Drawdown method (Weissman & others, 1977). The raw data and curve match results for the APT are in Appendix B.

Transmissivity = 8,300 ft^2/day
Thickness = 165 feet (based on a water level of 25 feet below land)
Specific Yield = 0.2 to .5

The composite value of K of 50 ft/day (transmissivity/thickness) corresponds to the middle of the range of K values for clean sand or the high end of the range for silty sand referenced in Table 2.2 of Groundwater (Freeze and Cherry, 1979). The sands of this zone ranged from very-fine to fine in grain size (Section 5.6), which agrees with the calculated K values from the APT.

6.2 Intermediate Confining Unit

The intermediate confining unit (Figure 5) includes all the permeable and semi-permeable layers between the overlying surficial aquifer system and the underlying Upper Floridan aquifer. This system is primarily within the Miocene sediments of Arcadia Formation and the Peace River Formation described in Sections 5.4 and 5.5, respectively. Both the Arcadia and Peace River Formations are part of the Hawthorn Group. This confining unit starts at 196 feet BLS and extends to 461 feet BLS. The water levels of this unit fluctuated between 43 and 55 feet below an arbitrary measuring point near land surface (Figure 6) between May and September of 2001.

This confining unit consists of interbedded sandy clays and clayey sands with varying amounts of phosphates and calcareous sediments (see Section 5.4 and 5.5). The

resulting hydrostratigraphic unit is one of low productivity. The intermediate aquifer system or intermediate confining unit has been defined as all rocks "that lie between and collectively retard the exchange of water" between the surficial and Floridan aquifers (SEGS, 1986). No producing zones were identified within the intermediate sediments at this site, therefore these sediments were named the intermediate confining unit.

6.2.1 "Slug Tests" with the Dual-Element Packer

During each packer test a hydraulic test and a water quality test are typically conducted as described in Section 4.2. Several packer tests were conducted on the intermediate confining unit while the total depth of the borehole was 484 feet BLS. Take note that with a depth of 484 feet BLS, the corehole penetrated 23 feet into the Upper Floridan aquifer. The analysis of the packer tests can be seen in Appendix C. The results produced K values of 1 ft/day or less as seen in Figure 7 and Table 1. Caution should be used when applying these data since several problems existed in the testing methods, in addition to the corehole penetration into the Upper Floridan aquifer. These values have three main sources of error: 1) non-instantaneous test initiation, 2) a packer orifice restriction, and 3) no estimate of initial slug. These sources of error will tend to underestimate the calculated K value. It is recommended that the K values not be used quantitatively but rather as an indicator of more or less permeable zones.

6.2.2 Aquifer Performance Test

At pumping rates less than 10 gpm, the APT conducted on the intermediate confining unit was unsuccessful. During the test the PXD in the pumped well was out of the water within the first 30 minutes due to the drawdown. As a result the test was terminated after 30 minutes. No drawdown was observed in the observation well located about 100 feet from the pumped well. No hydraulic data was obtained from this test data.

6.2.3 Slug Test

Due to the problems encountered while conducting the APT on the intermediate confining unit at this site, a slug test was conducted on February 22-23, 2005. A single slug test with a five-foot slug magnitude was conducted. This test was conducted on the permanent Intermediate Aquifer Monitor Well. The slug discrepancy between the

expected and observed slug magnitude was three percent, which verifies that the slug test was initiated almost instantaneously. It took approximately 800 minutes for the well to fully recovery to static, with 50 percent of the recovery occurring in the first 80 minutes (Appendix D). The recovery data from the slug test were analyzed using the solution method by Butler (1998).

Horizontal Hydraulic Conductivity = 0.03 ft/day
Thickness = 271 feet

The K values for the overlying surficial aquifer system and the underlying Upper Floridan aquifer are approximately 50 ft/day and 34 ft/day, respectively. Since the K value for the intermediate confining unit is 3 orders of magnitude smaller than surficial and Upper Floridan aquifers it will serve as a confining unit impeding the vertical movement of water from the surficial aquifer to the Upper Floridan aquifer.

One limitation of this estimate of K is the specification of the well being tested. The intermediate confining unit extends from 196 feet BLS to 461 feet BLS. The well is cased to 310 feet BLS and has a total depth of 414 feet BLS. It is unknown if the open-hole interval of the well is representative of the entire formation.

6.3 Upper Floridan Aquifer

The Upper Floridan aquifer (Figure 5) is comprised of a thick sequence of permeable carbonate units. The carbonates of the Upper Floridan aquifer consist of Eocene and Oligocene age sediments of the Avon Park Formation, Ocala Limestone, and the Suwannee Limestone described in Sections 5.1, 5.2, and 5.3, respectively. This aquifer starts at 461 feet BLS and extends to 1,650 feet BLS where low permeability dolomites with vertically persistent intergranular evaporites marks its base. The major sources of porosity contributing to the permeability within this aquifer include intergranular, vuggy, and fracture. The water levels of the Upper Floridan aquifer fluctuated between 45.9 to 58 feet below an arbitrary measuring point (datum) near land surface (Figure 6) between June and October of 2001.

The top of the Upper Floridan aquifer was based, in part, on a change in water levels observed during drilling and packer tests. The water level measured in the corehole cased to 294 feet BLS and with a total depth of 414 feet BLS was 42.13 feet BLS. This

water level corresponds to the level of the intermediate confining unit. Packer test 1 (336-484 feet BLS) had a water level of 49.36 feet BLS which appears to be a composite intermediate and Upper Floridan aquifers. Packer test 2 (403-484 feet BLS) and packer test 3 (462-484 feet BLS) water levels were 53.03 feet and 52.47 feet BLS, respectively. These water levels have less of an influence from the intermediate confining unit and are more representative of the Upper Floridan aquifer. Water levels in the annulus of all three of the packer tests were representative of the intermediate confining unit. No contrast in K was encountered until below 484 feet BLS (Figure 8 and Appendix C). Based on this hydrologic data, the top of the Upper Floridan aquifer could be reduced to a possible range of 336 feet to 484 feet BLS. The top of the Upper Floridan aquifer was positioned at 461 feet BLS, within the possible range coincident with the lithologic boundary between the Arcadia Formation and the Suwannee Limestone.

The Upper Floridan aquifer contains two distinct permeable zones, the Tampa-Suwannee permeable zone and the Avon Park permeable zone. The Tampa-Suwannee permeable zone extends from 461 feet BLS to 499 feet BLS and has porosity characterized as fractured and vuggy with cavities (Knochenmus and Robinson, 1996). This permeable zone may be contained in lithostratigraphic units of the Tampa Member and the Suwannee Limestone where both are present. At ROMP 29A well site, the Tampa Member was not present and this permeable zone consists only of the Suwannee Limestone. The Avon Park permeable zone extends from 1,223 feet BLS to 1,550 feet BLS. The Avon Park permeable zone consists of fractured dolomite and is the most important water-producing zone of the Upper Floridan aquifer in Florida (Tihansky, 2004). The Avon Park permeable zone has been referred to as the High "T" Zone, Fractured Zone, and the Fractured Dolomite Zone in other reports.

The Ocala semi-confining unit was encountered at the base of the Tampa-Suwannee permeable zone (499 feet BLS) and extends to 769 feet BLS. The Ocala semi-confining unit is contained within the Ocala Limestone at this site. The Ocala Limestone (Section 5.2) is fine-grained limestone that has maintained much of the original depositional properties and has less well-developed secondary porosity (Tihansky, 2004). Due to the fine-grained nature of its matrix and lack of secondary permeability this unit acts to retard ground-water flow. This semi-confining unit essentially separates the Tampa-Suwannee permeable zone from the remainder of the Upper Floridan aquifer below.

Ward et. al. (2003) identified a second semi-confining unit within the Upper Floridan aquifer extending from approximately 925 feet BLS to 975 feet BLS. This unnamed semi-confining unit is associated with the maximum flooding surface within the Avon Park Formation.

6.3.1 "Slug Tests" with the Dual-Element Packer

During each packer test a hydraulic test and a water quality test are typically conducted as described in Section 4.2. A total of 16-packer tests were conducted throughout the Upper Floridan aquifer. The data produced during the coring phase from the "slug testing" resulted in relatively low K values. This may be an artifact of the equipment and field methods applied during the "slug testing" as discussed in Section 6.2.1. Packer tests conducted during the exploratory drilling phase did not have the packer orifice restriction. As a result the packer tests during the exploratory drilling phase (1,244+ feet BLS) have the ability to produce higher K values. The K values calculated from the "slug tests" effectively identified the different hydrostratigraphic units. Figure 8 displays the K values with depth BLS. Relatively low K values can be seen within the Ocala Semi-confining unit and within the middle confining unit II. Relatively high K values can be seen in the Tampa-Suwannee and Avon Park permeable zones. The analysis of the packer tests can be seen in Appendix C.

6.3.2 Specific Capacity Tests

During each of the packer tests a water quality sample was collected. This process involved purging three "well" volumes and collecting the water sample. During this process the pump rate along with the maximum drawdown was used to determine specific capacity based on Equation (1). The specific capacity was then used to calculate a *K* value for each interval based on Equation (2). The resulting *K*-value based on this procedure can be seen in Table 1. These values range from 0.2 ft/day for the interval from 654 feet to 679 feet BLS and 34 ft/day for the interval from 1,219 feet to 1,244 feet BLS. This data supports and is in good agreement with the slug test data described in Section 6.3.1. However, it should be noted that this data along with the slug-test data contains several sources of error. For the specific capacity testing the main errors include: 1) packer-orifice restriction; 2) error in the water-level

measurements due to the use of air lifting (pumping) techniques; and 3) uncertainty that equilibrium conditions were reached. Like the parameters calculated from the "slug tests", it is recommended that the K values not be used quantitatively but rather as an indicator of more or less permeable zones.

No specific capacity information was obtained below 1,244 feet BLS, therefore the Avon Park permeable zone was not tested using this methodology.

6.3.3 Aquifer Performance Test

The APT for the Upper Floridan aquifer was conducted in July and August of 2004. The background data collection started on July 27, 2004 and continued until the drawdown phase started on August 10, 2004. Background data was collected in the permanent Upper Floridan Monitor Well, permanent Intermediate Aquifer Monitor Well, permanent Surficial Aquifer Monitor Well, and the Temporary Intermediate Aquifer APT Well (Figure 9). A few problems with PXDs resulted in data gaps for some of the wells, however a continuous data record exists for each of the hydrostratigraphic units monitored. On August 9, 2004, a short equipment test was conducted which included pumping the permanent Upper Floridan Monitor ("Pumped") Well. This pumping is reflected in the background water-level data for the "Pumped" Well.

The pumping phase of the APT was started on August 10, 2004 at 12:00 p.m. The initial start-up was stopped after four minutes due to a rupture in the discharge pipe. The pipe was fixed; water levels were allowed time to recover; and the test restarted at 1:05 p.m. The Upper Floridan aquifer was pumped at 2,877 gallons per minute (gpm) for a duration of 46 hours and 17 minutes.

The background data exhibited an increasing trend in water levels (Figure 9). A linear trend was determined for the OB well and defined as Equation 4,

$$Y = -0.000137 * X - 0.258 \qquad (4)$$

where Y is the water level displacement resulting from the linear trend and X is elapse time. Water level displacement is based on the start-of-test water level. Since the In-

Situ® Hermit 3000 data logger resets the water-level reference at the start of each "test", a new reference was used for the drawdown and recovery phases. As a result, the Y-intercept (-0.258) was dropped from Equation 1 reducing it to Equation 5.

$$Y = 0.000137*X \quad (5)$$

The response data, both drawdown and recovery, were corrected for observed linear water-level trend by adjusting the response data by the values produced by Equation 2. The correction assumes that the trend observed during the background data collection continued through the drawdown and recovery phase of the APT. The assumption of extrapolating the background water levels through the drawdown and recovery phases of an APT is described in the Techniques of Water-Resource Investigations of the United States Geological Survey, Chapter B1, *Aquifer-Test Design, Observation and Data Analysis* (Stallman, 1971). The corrected response data from the APT were analyzed using the solution method by Theis (1935) for confined aquifers. The corrected field data and theoretical Theis curve matched during the duration of the drawdown and recovery phases. It should be noted, that on August 12, 2004 at approximately 9:30 a.m. the diesel engine ran low on fuel and began to stall. Additional fuel was immediately added and engine never completely stopped. However, this event did cause a reduction in the withdrawal rate, which lasted around three minutes. This change in withdrawal rate is evident in the drawdown curve. Otherwise, the field and theoretical curves track very well during the duration of the test indicating that no external sinks or sources were encountered during the APT.

Transmissivity = 40,000 ft^2/day
Thickness = 1,162 feet
Storage Coefficient = 0.0005

The analysis, hydrographs, and raw data can be seen in Appendix E. The composite K value of 34 ft/day (transmissivity/thickness) corresponds to the middle of the range of K values for karst limestone referenced in Table 2.2 of Groundwater (Freeze and Cherry, 1979). It is likely that actual conductivity range is large within the Upper Floridan aquifer given that two distinct water-bearing zones were observed. The two water-bearing zones are the Tampa-Suwannee permeable zone and the Avon Park permeable zone.

7.0 GEOPHYSICAL LOGGING

The District ran logs for three main purposes: 1) to collect data on the geology, hydrology, and water quality; 2) to determine borehole geometry for well construction purposes; and 3) to document final well construction specifications after well completion. The discussions below are focused on the interpretation of the geophysical logs collected to infer geologic, hydrologic, and water quality characteristics. In addition to the geophysical logging conducted by the District, the USGS collected digital optical borehole images of the open borehole below 735 feet BLS using a Mount Sopris ALT OBI-40 Optical Televiewer (Ward and others, 2003). The USGS data can be seen as part of Open-File Report 03-201, entitled *Sequence-Stratigraphic Analysis of the Regional Observation Monitoring Program (ROMP) 29A Test Corehole and Its Relation to Carbonate Porosity and Regional Transmissivity in the Floridan Aquifer System, Highlands County, Florida.*

7.1 Corehole Logs

The first suite of logs was run in the corehole on December 14, 2000, following full penetration of the intermediate confining unit (Figure 10). Ten-inch PVC casing had been cement grouted to a depth of 250 feet BLS and temporary four-inch HW casing was set at a depth of 294 feet BLS. The caliper and multi tools were run from the bottom of the corehole (484 feet BLS) to land surface. The caliper log indicated four-inch casing extended from land surface to a depth of 294 feet BLS and the open-hole interval ended at 484 feet BLS. Of all the parameters measured by the Multi tool, only the gamma-ray detector can record accurate, although slightly muted, readings through PVC or steel casing. Therefore, only the gamma log is important through the surficial sands and clays. The electric resistivity logs (RES) are useful only in a cased well only to detect a breach in the casing as a spike in the log would indicate.

Typically, although not always, an increase in gamma-ray radiation coincides with an increase in phosphate. The intermediate confining unit at ROMP 29A has several phosphatic sandy units, which do in fact reflect increases in the detected gamma-ray radiation. The Peace River Formation, which extends from 196 feet to 285 feet BLS, had minor amounts of phosphatic sand and only a small corresponding increase of

gamma–ray radiation. The Arcadia Formation had marked increases and spikes in gamma-ray radiation, which also corresponds to significant phosphate sand and gravel identified in the lithologic description. The Nocatee Member also had several layers of phosphatic sands, although less abundant, as indicated by both the lithologic description and gamma log. The most notable spikes in the electric resistivity logs appear just above the top of the Nocatee Formation in calcarenite units of the Arcadia Formation. The relatively low, quiet response on the resistivity curves marks the extent of the Nocatee Member very well, picking up in the transition into the Suwannee Limestone at 461 feet BLS. The caliper log shows a relatively competent and gauge hole from approximately 400 to 460 feet BLS.

Figure 11 displays the next suite of logs ran in the open-hole interval, 250 feet to 494 feet BLS, on January 17, 2001, before the temporary four-inch HW casing was advanced. These logs basically duplicated the earlier effort but included an additional 10 feet (484 feet to 494 feet BLS).

The final suite of logs ran in the corehole was performed on April 12, 2001, to a depth of 1,244 feet BLS (Figures 12). The logs included caliper, gamma, electric resistivity (single point, 16N, and 64N), spontaneous potential, temperature, and specific conductivity. Log traces, other than the gamma log, above 494 feet BLS are not representative of what is in the formation outside of the casing, since it was cased with steel to that depth. The gamma log, however, indicates significant activity between 300 and 460 feet BLS, which corresponds to the radioactive isotopes associated with the intermediate confining unit. Below 460 feet (bottom of the Nocatee Member of the Arcadia Formation), the log trace is fairly "quiet" with a few minor spikes. Many of these spikes have corresponding deflections in the resistivity logs and may indicate clay beds. The spike at 769 feet BLS corresponds to the contact between the Ocala Limestone and the Avon Park Formation and the organics typically associated with the top of the Avon Park Formation.

The temperature log trace indicates a couple of minor deflections at approximately 1,180 and 1,230 feet BLS. These probably correlate to permeable zones in the fractured dolomite rocks of the Avon Park Formation. The specific conductance log trace remains

nearly constant throughout the entire section of Upper Floridan aquifer represented by the corehole logs indicating no degradation in the water quality to that depth.

7.2 Monitor Well Logs

During monitor and APT well construction by DDC several geophysical logs were generated. By far the most frequently used was the caliper tool. The caliper log was used to estimate cement grout volumes, casing depths and packer points for hydraulic testing and water quality sampling. Each finished well also had a caliper log generated to verify casing and total depths (Appendix F).

When the Upper Floridan aquifer exploratory well had been drilled to its deepest depth (1,875 feet BLS) a caliper tool was run, followed by the induction and multi tools (Figures 13 and 14). The gamma log indicates several notable areas of activity, in fact the gamma log was used to help pin certain formation contacts. The intermediate confining unit is indicated as a very noisy log trace due to the radioactive isotopes generally associated with the phosphatic deposits of the Peace River Formation and the Arcadia Formation. A significant kick at 769 feet BLS indicates the contact between the Ocala Limestone and the Avon Park Formation.

The caliper log (Figures 13 and 14) shows an eight-inch nominal borehole from approximately 1,225 feet to 1,875 feet BLS. Above 1,225 feet BLS the borehole was drilled with an 11 ½ inch bit, however the hole diameter ranges from 15 to 20 inches in diameter. This can be attributed to washout during the well construction. Below 1,223 feet BLS the caliper log reflects fracturing shown by the numerous spikes ending at a depth of 1,550 feet BLS. This fractured zone from 1,223 feet to 1,550 feet BLS is the Avon Park permeable zone of the Upper Floridan aquifer. This zone is not consistently fractured throughout the entire interval; rather distinct zones of fracturing can be seen in the caliper log.

The resistivity logs (Figures 13 and 14) have major deflections starting just below 1,300 feet BLS and slowly decrease to a minimum around 1,675 feet BLS. This correlates very well with the highly fractured dolomite rocks (Avon Park permeable zone), which started at approximately 1,223 feet BLS and extended to 1,550 feet BLS.

The specific conductance log (Figures 13 and 14) remains steady throughout the extent of the trace, indicating very fresh (low concentrations of dissolved ions) formation water until a depth of approximately 1,650 feet BLS. Below 1,650 feet BLS the specific conductance begins to increase as a result of dissolution of evaporites (gypsum and anhydrite). These evaporitic sediments contribute additional ions, notably sulfate, to the groundwater increasing the conductivity and decreasing the resistivity of the water. As the infilling of the pore spaces with gypsum increased with depth, so did the specific conductivity readings, as indicated by the log trace.

The temperature log (Figures 13 and 14) has several deflections, which typically indicate flow zones. The deflection noted at 675 feet BLS also correlates to a minor kick in the resistivity logs indicating some sort of permeable zone, possibly a fracture in the lower portion of the Ocala Limestone. The temperature log shows a reduction in temperature through the Avon Park permeable zone resulting from formation water moving into and through the borehole. Below the Avon Park permeable zone the temperature log reflects an increase, correlative with the increase in the specific conductivity log through the middle confining unit II of the Floridan Aquifer System. This is indicative of the relatively stagnant water contained in this zone. The temperature at the base of the hole was approximately 83 degrees Fahrenheit, compared to temperatures in the range of 78 to 79 degrees Fahrenheit throughout the Upper Floridan aquifer.

7.3 Video Log

On May 26, 2005, the Resource Data Section conducted video logging of the permanent Upper Floridan Monitor Well. The well was logged from land surface to its total depth of 1,640 feet BLS. The primary purpose of conducting the video log was to use the data to select a depth to place a six-inch PVC liner and formation packers. Placement of the formation packers in a gauge section of borehole is critical to ensure a proper seal and a successful lining. In addition to providing the necessary data for the lining of the well, the video log provides an excellent view of the lithologic units encountered by the well and the secondary features that exist in these units (i.e., fractures and conduits). The depth values identified in the video log are three to four feet deeper than the values in the remainder of the report. This discrepancy may be a result of the reference point

used in this logging effort. A DVD of the video log has been included in the back of this report.

The video log for the permanent Upper Floridan Monitor Well shows 18-inch steel casing extending to a depth of 174 feet BLS. The log shows 12-inch steel (telescoped) casing starting at 174 feet BLS and extending to 482 feet BLS, penetrating approximately 17 feet into the Suwanne Limestone. The first formation encountered in the open-hole interval of the permanent Upper Floridan Monitor Well is the Suwannee Limestone beginning at he base of the 12-inc steel casing. The Suwannee Limestone can be identified in the video log as the interval of cream-colored limestone exhibiting a pitted and porous borehole wall, extending to a depth of 502 feet BLS. Below 502 feet BLS the borehole wall becomes smooth marking the base of the Suwannee Limestone as well as the base of the Tampa-Suwannee permeable zone of the Upper Floridan aquifer (Tihansky, 2004).

The Ocala Formation and the Ocala Semi-Confining Unit start at 502 feet BLS and extends to a depth of 780 feet BLS in the video log. This section is represented by a gauge hole of light cream limestone. The walls of the borehole appear smooth with little evidence of any secondary permeability such as fractures or conduits.

The Avon Park Formation starts at a depth of 773 feet BLS and extends to the total depth of this borehole. The Avon Park Formation can be identified by the change in rock color to dark yellowish orange rocks interbedded with the lighter cream-colored limestones, and a change in rock type to include dolostone. The Avon Park permeable zone starts at 1,223 feet BLS and extends to 1,550 feet BLS. The high permeability of this zone is a result of fractures in the dolostone. The fractured dolostone is visible in the video log with both vertical and horizontal fracturing present. Vertical fractures appear to be dominate, especially in the upper portion of this permeable zone.

8.0 WATER QUALITY

Water quality was monitored regularly with depth, throughout corehole and exploratory drilling operations. Water was not monitored during drilling of the surficial aquifer system, however, finished surficial wells were sampled. Drilling discharge was generally

monitored at the surface every five feet with the addition of drill rods. At depths where formation rocks were very permeable and discharge did not make it back to the surface, water samples were collected during purges of drill cuttings every 20 feet. Water quality proved to be very fresh, with low concentrations of chloride, sulfate and other ions measured, throughout the surficial, intermediate, and most of the Upper Floridan aquifers. Water quality only started to degrade when evaporitic sediments began to be encountered as drilling penetrated into the middle confining unit II of the Floridan Aquifer System. Appendix F contains field data collected during coring, including the drilling discharge water quality (temperature and conductivity).

8.1 Surficial Aquifer System

The surficial aquifer wells were augured into place, which did not lend itself to water sampling during construction. The water-supply well penetrated nearly half of the surficial aquifer system and was used for drilling fluid and cement preparation during corehole exploration. A water-quality sample was collected from the finished water supply well, which indicated slightly elevated readings for several of the ions sampled, such as sulfate, chloride, calcium, and sodium. A water sample was also collected from the temporary surficial aquifer system APT well following the test. A standard complete analysis was performed on this sample, which was from the pumped interval of 35 feet to 200 feet BLS. Like the water supply well, the APT well contained slightly elevated concentration of several ions; dissolved sodium – 50 milligrams per liter (mg/L), potassium – 10.1 mg/L, chloride – 63.7 mg/L, and sulfate – 39.3 mg/L. The standard complete results are summarized in Table 2.

8.2 Intermediate Confining Unit

The intermediate confining unit contained potable water throughout its extent, however quantities were very limited in the lower units due to the low impermeable nature. Water quality was generally slightly fresher than in the surficial aquifer system, as presented in Figures 15 and 16 and Table 2. A water sample collected from the interval of 294 feet to 394 feet BLS produced a very fresh conductivity reading of 201 micromhos per centimeter (umhos/cm). This was the only water sample collected from the intermediate confining unit during coring and sent to the laboratory for a standard complete analysis.

The upper portion of the intermediate confining unit (Peace River Formation) did not have any packer tests performed since most of the formation was unconsolidated sands and clays and setting a packer was not feasible. Discharge water monitored while drilling through the intermediate confining unit produced specific conductivity readings ranging from 330 to 360 umhos/cm from a depth of 264 feet to 284 feet BLS, respectively (Appendix G). Monitored drilling discharge water ranged from a low of 296 umhos/cm at 459 feet BLS to 460 umhos/cm at 416 feet BLS for the entire intermediate confining unit.

8.3 Upper Floridan Aquifer

The Upper Floridan aquifer contains two distinct permeable zones at this site, the Tampa-Suwannee permeable zone and the Avon Park permeable zone. The Ocala semi-confining unit was encountered starting at the base of the Tampa-Suwannee permeable zone. This semi-confining unit essentially separates the Tampa-Suwannee permeable zone from the remainder of the Upper Floridan aquifer. The base of the Upper Floridan aquifer was encountered at 1,650 feet BLS where vertically persistent intergranular evaporites were encountered.

None of the packer tests performed in the Upper Floridan aquifer above 1,650 feet BLS produced water quality results that exceeded potable standards. All the water samples above 1,500 feet BLS had a specific conductivity reading above 300 umhos/cm; the packer test performed on the interval 1,578 to 1,650 feet BLS showed degradation in water quality with a specific conductivity reading of 420 umhos/cm. The degradation in water quality is associated with the proximity to evaporites deeper in the formation. This is evident by the sharp increase in sulfates from 26.5 mg/L above 1,550 feet BLS to 127 mg/L for the test from 1,578 feet to 1,650 feet BLS. The first occurrence of evaporitic material was observed in cuttings from 1,650 feet to 1,660 feet BLS. The base of the Upper Floridan aquifer was determined to be at 1,650 feet BLS.

8.4 Middle Confining Unit II

The first two packer tests (1,690 feet to 1,750 feet and 1,775 feet to 1,820 feet BLS) within the middle confining unit II had progressively worse water quality with significant increases in magnesium, calcium, sulfate, iron and TDS (Table 2) relative to the water of the Upper Floridan aquifer. Chlorides never exceeded 30 mg/L for the entire depth of the well. Sulfates were 2,320 mg/L in the final water sample (1,775 feet to 1,820 feet BLS), TDS were 3,600 mg/L and specific conductance was up to 3,390 umhos/cm. A final water sample was not collected from the last packer test, as the interval (1,805 feet to 1,875 feet BLS) would not make enough water to accurately sample.

9.0 WELL CONSTRUCTION

The DDC crew moved onto the ROMP 29A site on April 23, 2001 to construct five wells. The well site already had a corehole (Figure 17), which was used to help design the monitor wells and a water supply well (Figure 18), which was initially used for water for drilling fluid makeup. The District constructed the corehole and water supply well with the CME 85 coring rig as described in Section 4.1.

9.1 Permanent Intermediate Aquifer Monitor Well

The first well constructed by DDC was the permanent Intermediate Aquifer Monitor Well. A 23-inch hole was drilled with mud, on the permanent 20 foot by 60-foot perpetual easement, to a depth of 86 feet BLS. Eighty-four feet of 12-inch steel casing was then lowered into the hole and pressure-grouted (bentonite cement mix) back to land surface. The cement grout on the outside of the casing (annulus) was 12 feet BLS the following day. A fresh tub of cement grout filled the annulus back to land surface. The crew tripped back in the hole with an 11½-inch bit and tagged cement inside the well at 57 feet BLS. A 12-inch nominal hole was then drilled to 312 feet BLS. Six-inch, schedule 40, PVC casing was then glued, screwed, and lowered into the hole to 310 feet BLS. The hole was circulated clean with mud and steel tremmie pipe was lowered inside the PVC casing to 251 feet BLS. The well was then pressure-grouted with 750 gallons of bentonite cement. The crew removed 120 feet of tremmie pipe after a ½ hour and sealed the well for the night to allow the cement to set. The cement in the annulus was

tagged at 166 feet BLS the following day. A four-cubic yard cement truck arrived and the crew added 150 gallons of bentonite mud to the cement before filling the annulus back to land surface. The drill crew then tripped back into the six-inch, PVC casing with a 5⅝-inch bit and tagged cement at 286 feet BLS. The hole was then drilled to 472 feet BLS using mud-rotary methods and then direct-air developed the well to clean the mud from the hole. The well as-built diagram can be seen as Figure 19. The well was then also reverse-air developed to clean the hole. The well was making 35 gpm with the reverse-air development and the water was clear. The crew then moved the rig over to start the permanent Surficial Aquifer Monitor Well.

During aquifer testing it was determined that this well was cross connected with the Upper Floridan aquifer. Subsequently, this well was backplugged from 472 feet to 414 feet BLS using 12 bags of neat cement. The final open-hole interval of the permanent Intermediate Aquifer Monitor Well is 310 feet to 414 feet BLS with 47 feet of separation between the base of the well and the top of the Upper Floridan aquifer.

9.2 Permanent Surficial Aquifer Monitor Well

The permanent Surficial Monitor Well was also constructed on the perpetual 20 foot by 80-foot easement. A 30-inch bit was initially used to drill a hole using mud-rotary methods to 34 feet BLS. Eighteen-inch casing was then lowered into the hole to 32 feet BLS and pressure-grouted in place with three-percent bentonite cement. Cement was tagged 15 feet BLS inside the casing and was drilled out and down to 203 feet BLS with a 12-inch bit. The hole was circulated and conditioned to stay open and six-inch, .03-inch slot, schedule 40, PVC screen was lowered in to a depth of 203 feet BLS. The crew then hung a 4,000 pound (lb) bag of 6/20 quartz sand over the well and tremmie filled the annulus up to 120 feet BLS. The next 4,000 lb bag of sand brought the annulus up to 80 feet BLS and another 3,000 lbs brought the annulus to 30 feet BLS. The crew then lowered a perforated pipe inside the casing and jetted Thinz-it®, a mud thinning product, horizontally into the well casing from 30 feet BLS to the bottom of the well. The sand pack dropped 15 feet in the annulus as a result of the cleansing. Additional sand brought the annulus back to 28 feet BLS and three, five gallon buckets of hydrated Pelplug™ on top brought the annulus depth to 23 feet BLS. The crew then pumped 150

gallons of cement on top of the bentonite, which filled the annulus to land surface. The well as-built diagram can be seen as Figure 20.

9.3 Permanent Upper Floridan Monitor Well

The next well constructed by DDC was the permanent Upper Floridan Monitor Well on the perpetual easement. The crew had to temporarily remove part of the fence around the temporary easement to set up the rig and drilling equipment. The initial hole was drilled with a 29-inch bit to 84 feet BLS. The crew then lowered 24-inch steel casing to 50 feet BLS where it started to get stuck. The casing had to be removed, the hole reconditioned with the 29-inch bit with additional three-inch wings welded on (creating a 35-inch hole) and the casing reset, this time to 80 feet BLS. Two cement trucks, each with 6½ cubic yards of cement arrived; because of cement density only water was added, no bentonite. The cement grout was pressure grouted into the well, chased with water and valved off. The tremmie line and header was removed after an hour of setting time. The cement in annulus was 40 feet BLS and 62 feet BLS inside the well the following morning. A seven-cubic yard cement truck brought the annulus to land surface.

A 23-inch drill bit was then lowered into the steel casing and drilled to 253 feet BLS over the next several days. The drill rods were tripped out of the hole and 18-inch steel casing was lowered into the hole. The casing would not advance past 168 feet BLS and was removed for further borehole conditioning. After several days of mud conditioning and reaming to 251 feet BLS the casing was again lowered, but only got to 219 feet BLS. A tremmie line was run into the well and the casing was pressure-grouted with 14 cubic yards of bentonite-cement grout. The tremmie pipe was removed after an hour. The grout was tagged inside the 18-inch steel casing at 207 feet BLS.

A 17-inch hole was drilled to 481 feet BLS over the next several days. A 12-inch steel casing string was lowered into the hole to 478 feet BLS and backed off at 170 feet BLS, inside the 18-inch casing. Using hydro-pipe, the crew pressure-grouted the 12-inch casing in place.

The crew then lowered an 11½-inch bit inside the 12-inch casing and tagged grout at 453 feet BLS. The hole was then drilled to 613 feet BLS using mud-rotary methods. The crew then switched over to the reverse-air drilling methods and over the next week drilled to 1,234 feet BLS. For the purpose of conducting exploratory work, the drill string was then tripped out of the hole and the bit replaced with a 7⅝-inch drill bit. The 7⅝-inch drill bit was better suited for packer testing. The hole was then drilled to 1,352 feet BLS. The drill pipe was removed and the hole was caliper logged for a packer test. The hole was periodically packer tested throughout the rest of the exploratory drilling. Packer and "slug testing" methods are described in Section 4.2. The total depth of exploratory drilling was 1,875 feet BLS, which included seven packer tests.

At a depth of 1,825 feet BLS, the airline used for reverse-air drilling broke and 360 feet of ½-inch PVC pipe was left in the hole. Over the next several days the crew tried to grind up the PVC pipe with a new reverse-air bit and then grab pieces of the PVC with a modified fishing tool and trash barrel. The crew finally went in with a 7⅝-inch medium mill-tooth reverse-air drill bit. With the new bit the crew was able to drill to the final depth of 1,875 feet BLS.

Following the final packer test, the crew tripped in the hole with tremmie line and back-plugged the bottom of the borehole with bentonite-cement grout to 1,619 feet BLS. The drill crew then tripped back into the hole with an 11½-inch drill bit to 1,234 feet BLS and started reaming the hole on reverse-air to the final depth of 1,640 feet BLS. The final Upper Floridan aquifer well has a 12-inch nominal open hole from 478 to 1,640 feet BLS. The crew cleaned the hole by reverse-air and then tripped up the hole to 240 feet BLS and started direct-air development. The drill rods were tripped back to bottom for depth verification and reverse-air developed to clean the bottom again. The well as-built diagram can be seen as Figure 21.

9.3.1 Well Modifications

The permanent Upper Floridan Monitor Well was constructed and tested as a fully penetrating Upper Floridan aquifer well. For monitoring purposes, this well was converted to a dual-zone monitor well. The permeable zones monitored by this well are the Tampa-Suwannee and the Avon Park permeable zones. A six-inch PVC liner was placed to 1,260 feet BLS and the annulus was grouted to 529 feet BLS. Grouting of the

annulus was stopped at 529 feet BLS in order to allow access to the Tampa-Suwannee permeable zone. Four to five buckets of bentonite were added before each run of cement during the grouting process. The purpose of the bentonite was to ensure the best possible seal around the six-inch PVC liner, minimizing the potential for any vertical connection between the Tampa-Suwannee and the Avon Park permeable zones. After the liner was grouted into place the well was backplugged from 1,640 feet BLS to 1,553 feet BLS. The final intervals monitored by this well are from 478 feet BLS to 529 feet BLS (Tampa-Suwannee permeable zone) and from 1,260 feet BLS to 1,553 feet BLS (Avon Park permeable zone). The well as-built diagram can be seen as Figure 21.

9.4 Surficial Aquifer APT Well

The drilling crew (DDC) then moved over and set up the drill rig on the surficial aquifer APT well. A 30-inch bit was used to drill the initial hole to 33 feet BLS. A piece of 24-inch steel casing was lowered into the hole to 30 feet BLS and pressure-grouted in place. Grout was tagged in the annulus five feet BLS and topped off to land surface. Cement grout was tagged 18 feet BLS inside the 24-inch casing and a 23-inch bit was lowered in to start drilling. Due to the unconsolidated nature of the surficial sediments, the hole was drilled using mud to a depth of 206 feet BLS. DDC installed a 12-inch PVC tail with cap from 203 to 200 feet BLS (sump), a string of 12-inch, .03 inch slot, PVC screen from 200 to 30 feet BLS, and 12-inch PVC casing from 30 feet BLS to approximately 2 feet above land surface (ALS). Eight, 4,000 lb bags of 6/20 quartz sand was poured in around the screen creating a sand filter pack. The well was air-developed and five-gallons of Thinz-it® was poured in the well, mixed and allowed to sit overnight. The well was air-developed the next day to clean the mud from the borehole. Bentonite pellets were poured in the annulus around the casing at 25 feet BLS. Cement grout was then mixed and poured on top of the bentonite pellets (in the annulus) up to land surface. The well was developed with Thinz-it® once again, while the crew mobilized to the next well. The well as-built diagram can be seen as Figure 22.

9.5 Intermediate Aquifer APT Well

The final well to be drilled by DDC was the temporary intermediate aquifer APT well (Figure 23). The first hole was drilled with a 30-inch bit to a depth of 82 feet BLS using

mud-rotary methods. A 20-inch string of steel casing was lowered into the hole to a depth of 78 feet BLS and circulated with mud prior to the pressure-grout cementing. A seven cubic yard cement truck arrived on-site, and the crew added bentonite to the mix. The mix was pumped down the tremmie line in the well and up around the annulus. The cement was tagged 21 feet BLS in the annulus the following day and topped off to land surface with more cement. The pressure-grout header was cut off the top of the well and a 17½-inch bit was lowered into the hole. Cement grout was tagged at 58 feet BLS and the crew started drilling using mud-rotary methods to a depth of 313 feet BLS. The drill pipe and collars were tripped out of the well and eight-inch schedule 40 PVC casing was tripped into the hole to 120 feet BLS. The eight-inch PVC casing became stuck and had to be removed from the borehole so that the borehole could be reconditioned with mud. The 17½-inch bit was lowered into the hole and drilled to 142 feet BLS using mud-rotary methods. The drill pipe was removed and 12-inch, schedule 40 PVC casing was lowered to 138 feet BLS and circulated with mud. The tremmie line was lowered to 99 feet BLS inside the casing and the casing was pressure-grouted with 6½ cubic yards of bentonite cement grout. The grout was tagged ten feet BLS in the annulus later in the day. An 11½-inch bit was used to tag grout at 128 feet BLS and re-drill the hole using mud-rotary methods to 313 feet BLS. Eight-inch PVC casing was then lowered to 310 feet BLS and pressure-grouted in place. The tag in the annulus between the 12 and the eight-inch PVC casings was 136 feet BLS. Cement grout was then pumped into the annulus and brought to land surface. The PVC header was cut off the well and a 7⅝-inch bit was lowered into the well. The tag inside the eight-inch PVC casing was 274 feet BLS. The final well borehole was drilled to 470 feet BLS using mud-rotary methods and flushed with 5,000 gallons of water to flush out the mud cake. The drill rods were tripped up hole to 200 feet BLS, direct-air developed and then tripped back down the hole and reverse-air developed back to bottom.

During aquifer testing it was determined that this well was cross connected with the Upper Floridan aquifer. Subsequently, this well was backplugged from 470 feet to 378 feet BLS using 25 bags of neat cement. The final open-hole interval of the intermediate confining unit APT well is 310 feet to 378 feet BLS with 83 feet of separation between the base of the well and the top of the Upper Floridan aquifer.

Each well was further air developed to clean residual mud and drilling fluids from the wells. Protective steel casing covers were also fabricated and cemented around each of the seven wells on-site. The crew then finished cleaning the site and began mobilizing equipment off-site.

10.0 SUMMARY

Three permanent monitor wells were constructed at this site (Figure 2). These wells included a surficial aquifer monitor, an intermediate confining unit monitor, and an Upper Floridan aquifer monitor. In addition to the permanent wells, three temporary wells were constructed for the purpose of aquifer testing and a fourth as a water supply.

All temporary wells were plugged, cut off three to four feet BLS, and buried. The permanent Upper Floridan Monitor Well was lined with 6-inch PVC casing and converted into a dual zone monitor well (Figure 21), monitoring the Tampa-Suwannee and the Avon Park permeable zones. All permanent wells were fitted with protective well covers.

The hydrogeologic investigations at the ROMP 29A well site included lithologic sampling, water-quality profiling, water-level profiling, K profiling, geophysical logging, slug testing, and aquifer-performance testing. Both the surficial and Upper Floridan aquifers were tested by means of an APT, and the intermediate confining unit was slug tested due to its low productivity.

Lithologic samples were collected from auger flights from 0 to 80 feet BLS, during mud-rotary drilling from 80 to 250 feet BLS, by wireline coring with NQ coring rods from 256 to 1,244 ft BLS, and from reverse-air (exploratory) drilling from 1,244 to 1,875 feet BLS. The sampling from the auger flights was conducted during the construction of the water supply well, the mud-rotary sampling and wireline coring was conducted on the corehole/OB well, and the reverse-air sampling was conducted during exploratory drilling out the base of the permanent Upper Floridan Monitor Well. The exploratory drilling was backplugged to 1,619 feet BLS and drilled with 11½ bit to 1,640 feet BLS. All the aforementioned lithologic samples were described and FGS code sheets completed. The detailed lithology from this site can be seen in Appendix A; and a diagram depicting the general geology can be seen as Figure 5. The geologic units encountered during

the investigation were (from bottom to top) the Avon Park Formation with evaporites present at the base, Ocala Formation, a thin bed of Suwannee Limestone, the Hawthorn Group, and the Plio-Pleistocene aged undifferentiated deposits.

The water levels in the surficial aquifer system, the intermediate confining unit, and the Upper Floridan aquifer declined from 25 feet BLS, to 45 feet BLS, to 50 feet BLS, respectively. This indicates that water has the potential to recharge at this location. The water level (Figure 7), lithologic (Figure 5), and hydraulic (Figure 8) data were used to delineate the hydrostratigraphic boundaries between the different aquifers and confining units. The major hydrostratigraphic units identified at this site (from bottom to top) include the middle confining unit II (Miller, 1986), the Upper Floridan aquifer, the intermediate confining unit, and the surficial aquifer system. The hydraulic testing of the major hydrostratigraphic units yielded the following results:

surficial aquifer system
Transmissivity (T) = 8,300 ft^2/day
Thickness (b) = 165 feet
Specific Yield (S_y) = 0.2 - 0.5

intermediate confining unit
K = 0.03 ft/day
b = 271 feet

composite Upper Floridan aquifer
Transmissivity (T) = 40,000 ft^2/day
Thickness (b) = 1,162 feet
Storativity (S) = 0.0005

A full suite of geophysical logs were performed during coring and exploratory drilling in order to provide a complete set of logs down to the total depth of exploration (1,875 feet BLS). The suite of geophysical logs included caliper, gamma, spontaneous potential, single point resistance, short-long normal-resistivity, temperature, apparent conductivity, (relative) specific conductance and video. The most notable signatures visible in the geophysical logs (Figures 13 and 14) are the increased activity throughout the Hawthorn Group (196 feet to 461 feet BLS) resulting from the presence of phosphates; the increased resistivity along with the corresponding decrease in temperature and activity in the caliper through the fractured dolomite of the Avon Park permeable zone (1,223 feet to 1,550 feet BLS), and the increase in water conductivity and temperature in the middle

confining unit II (below 1,650 feet). The District ran caliper logs on all wells including temporary wells to verify construction specifications (Appendix F).

The water quality in the surficial aquifer system, the intermediate, and the Upper Floridan aquifer was fresh with TDS concentration in the Upper Floridan aquifer as low as 86 mg/L. A slight decreasing trend is apparent in the TDS concentration to a depth of 1,550 feet BLS. At 1,550 feet BLS the TDS concentration begins to rise sharply as the middle confining unit II is encountered. The steep rise in TDS concentrations can be primarily attributed to the increase in sulfate concentration (Table 2) resulting from the dissolution of evaporitic (gypsum and anhydrite) sediments contained in the middle confining unit II.

This report completes the hydrogeologic investigations at the ROMP 29A – Sebring well site. The data collected and analyzed from this site investigation will be used to better manage and protect the water resources of this region, in part, by being utilized in the District's Highlands Ridge Water Resource Assessment Project.

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FIGURES

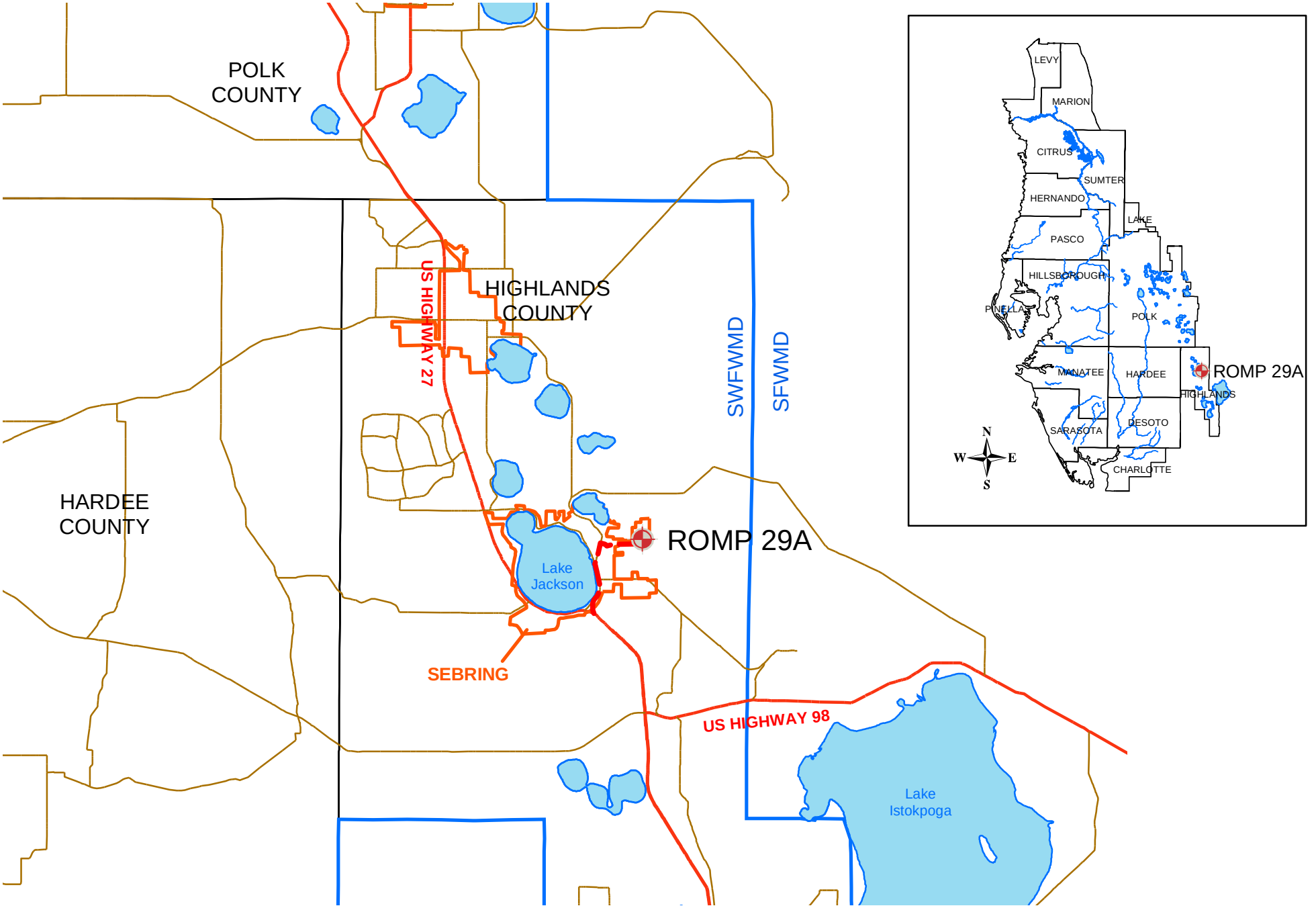
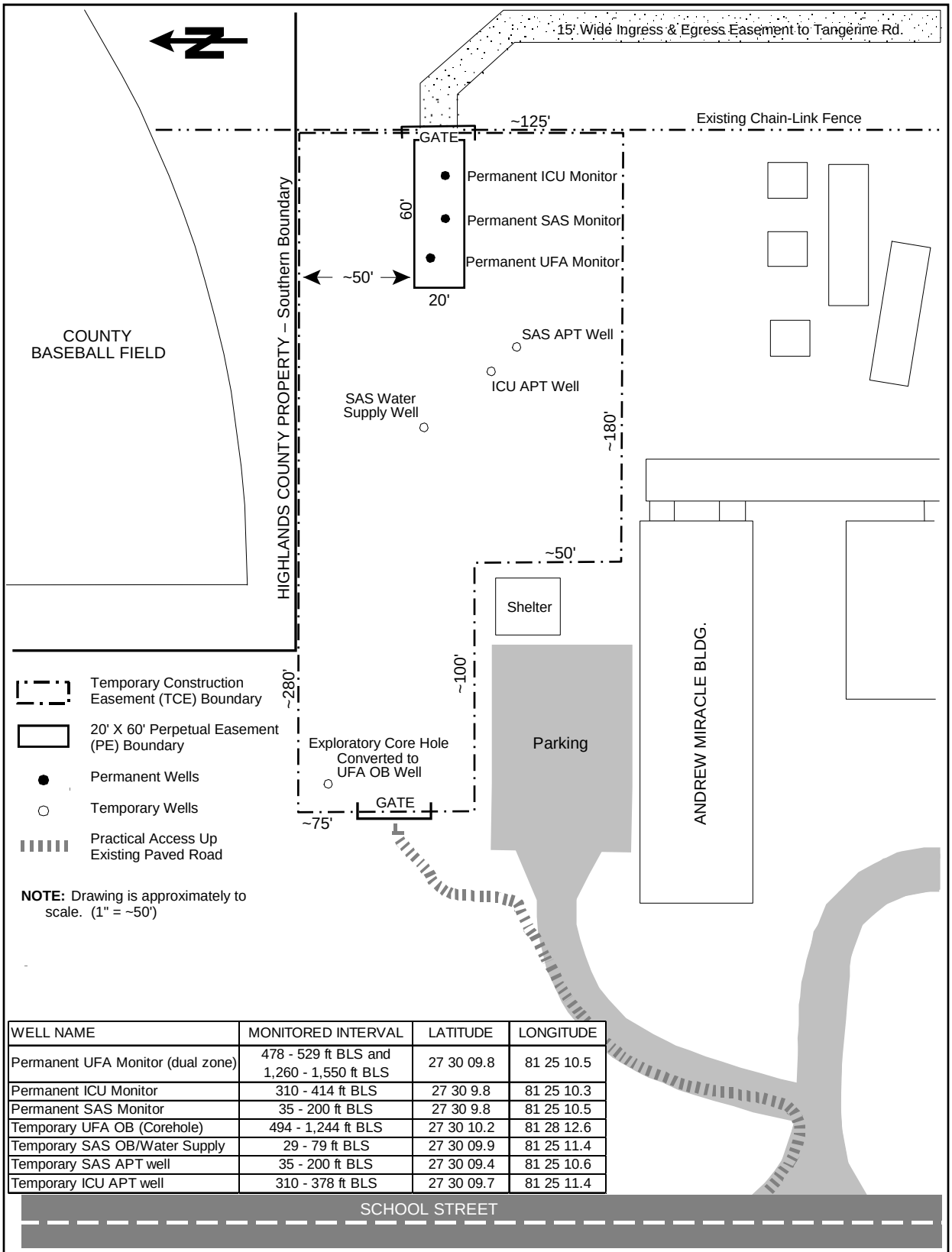


Figure 1. ROMP 29A Sebring

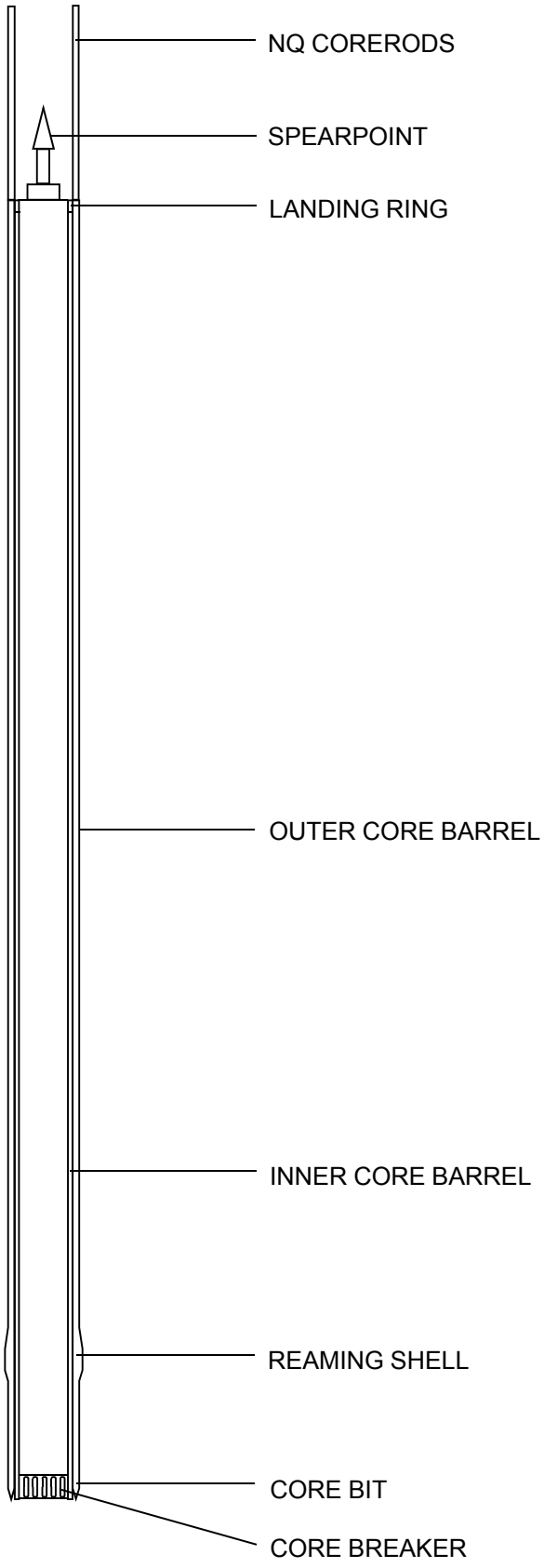
Project Location Map



WELL NAME	MONITORED INTERVAL	LATITUDE	LONGITUDE
Permanent UFA Monitor (dual zone)	478 - 529 ft BLS and 1,260 - 1,550 ft BLS	27 30 09.8	81 25 10.5
Permanent ICU Monitor	310 - 414 ft BLS	27 30 9.8	81 25 10.3
Permanent SAS Monitor	35 - 200 ft BLS	27 30 9.8	81 25 10.5
Temporary UFA OB (Corehole)	494 - 1,244 ft BLS	27 30 10.2	81 28 12.6
Temporary SAS OB/Water Supply	29 - 79 ft BLS	27 30 09.9	81 25 11.4
Temporary SAS APT well	35 - 200 ft BLS	27 30 09.4	81 25 10.6
Temporary ICU APT well	310 - 378 ft BLS	27 30 09.7	81 25 11.4

Figure 2. ROMP 29A Sebring

Well Placement and Site Map



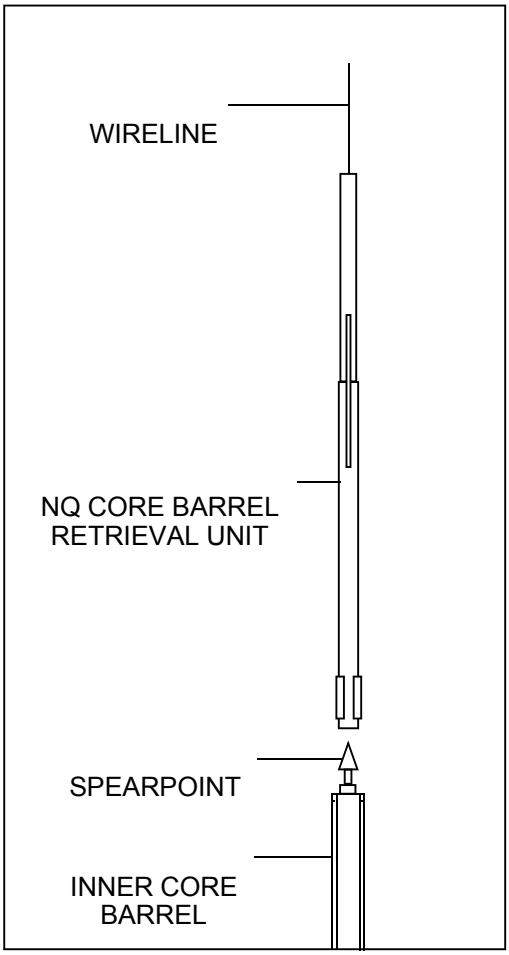


Figure 3. ROMP 29A Sebring

Typical Wireline Coring Apparatus Diagram

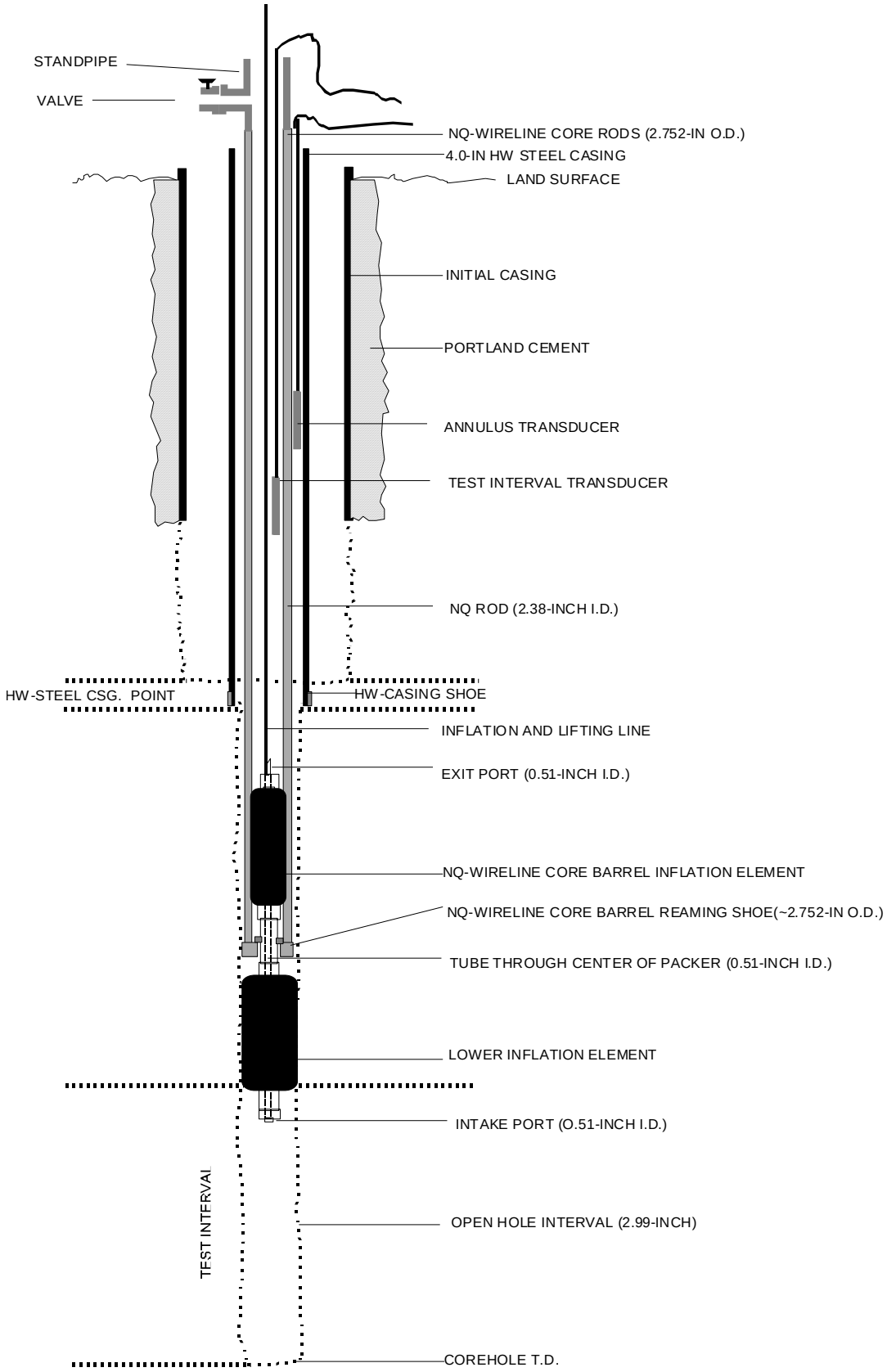
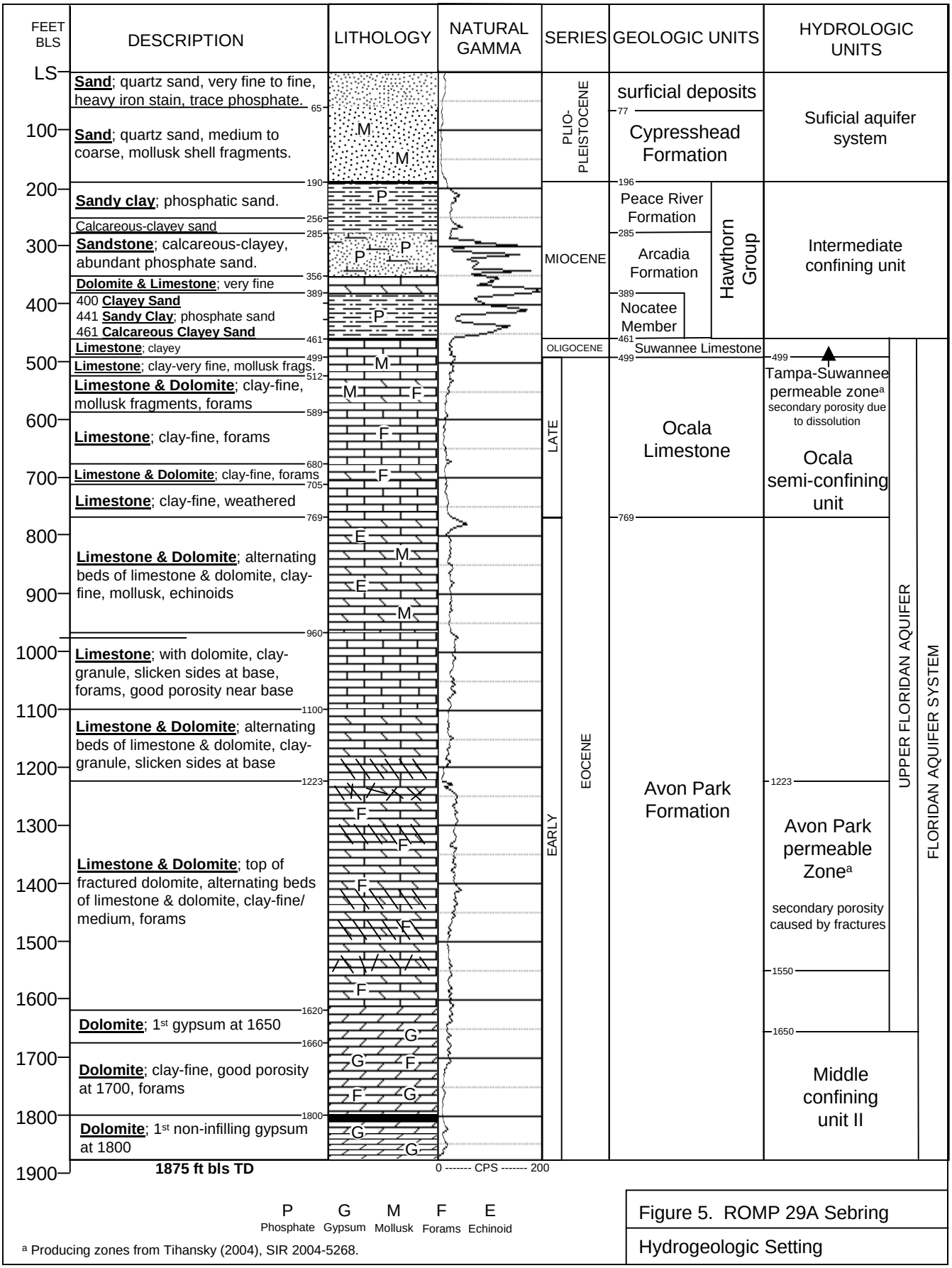


Figure 4. ROMP 29A Sebring

Wireline NQ Packer Diagram

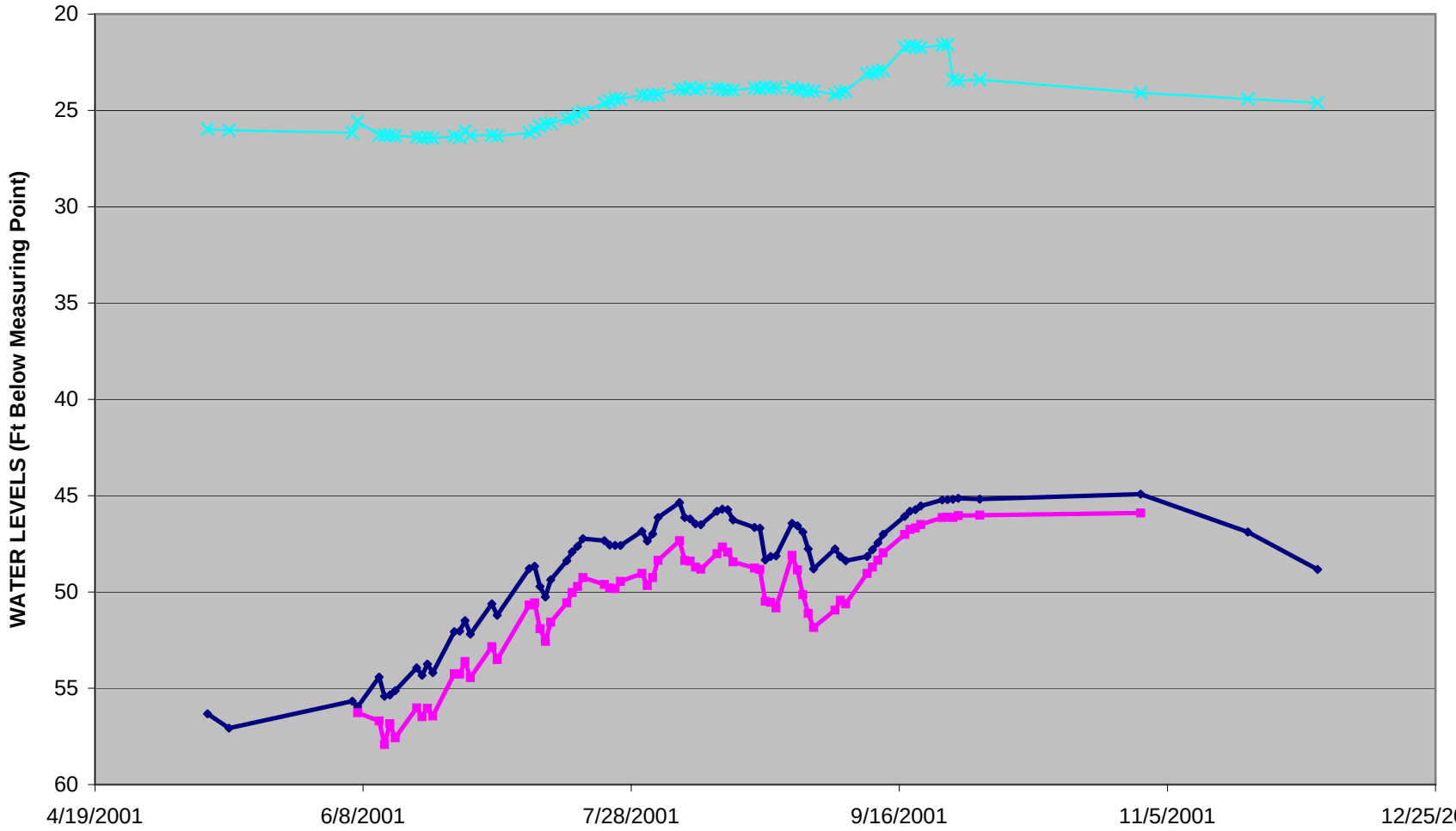
Nqpacker.ppt



[a] Producing zones from Tihansky (2004), SIR 2004-5268.

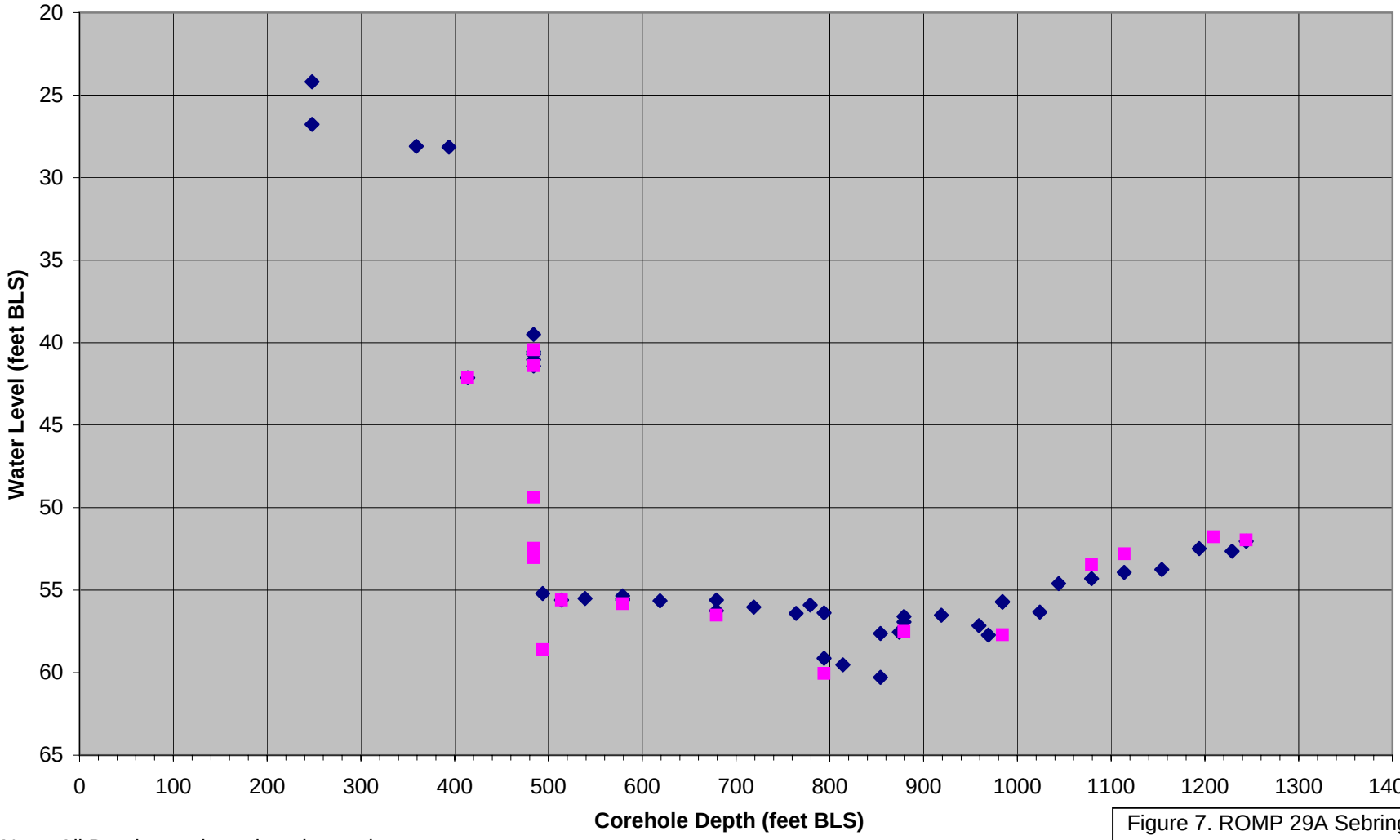
Figure 5. ROMP 29A Sebring

Hydrogeologic Setting



An arbitrary datum was set and surveyed as the measuring point for all the wells.

Figure 6. ROMP 29A Sebring
Water Levels During Well Construction



Note: All Depths are based on the total depth of the corehole at the time of the test.

Figure 7. ROMP 29A Sebring
Water Level with Depth Below Land Surface

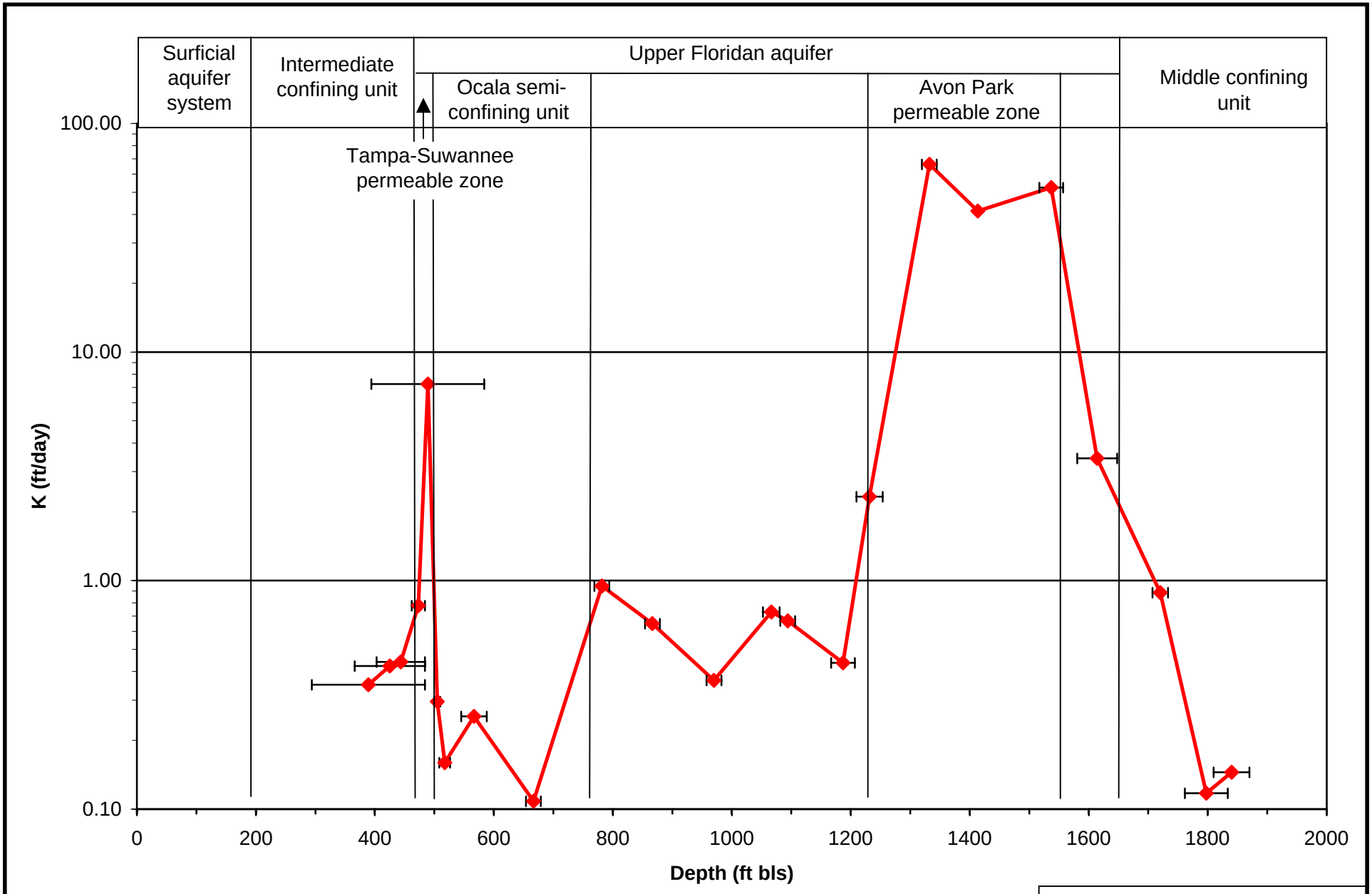


Figure 8. ROMP 29A Sebring

Hydraulic Conductivity with Depth below land surface

Note: The curve depicts the mid-point of the test interval.

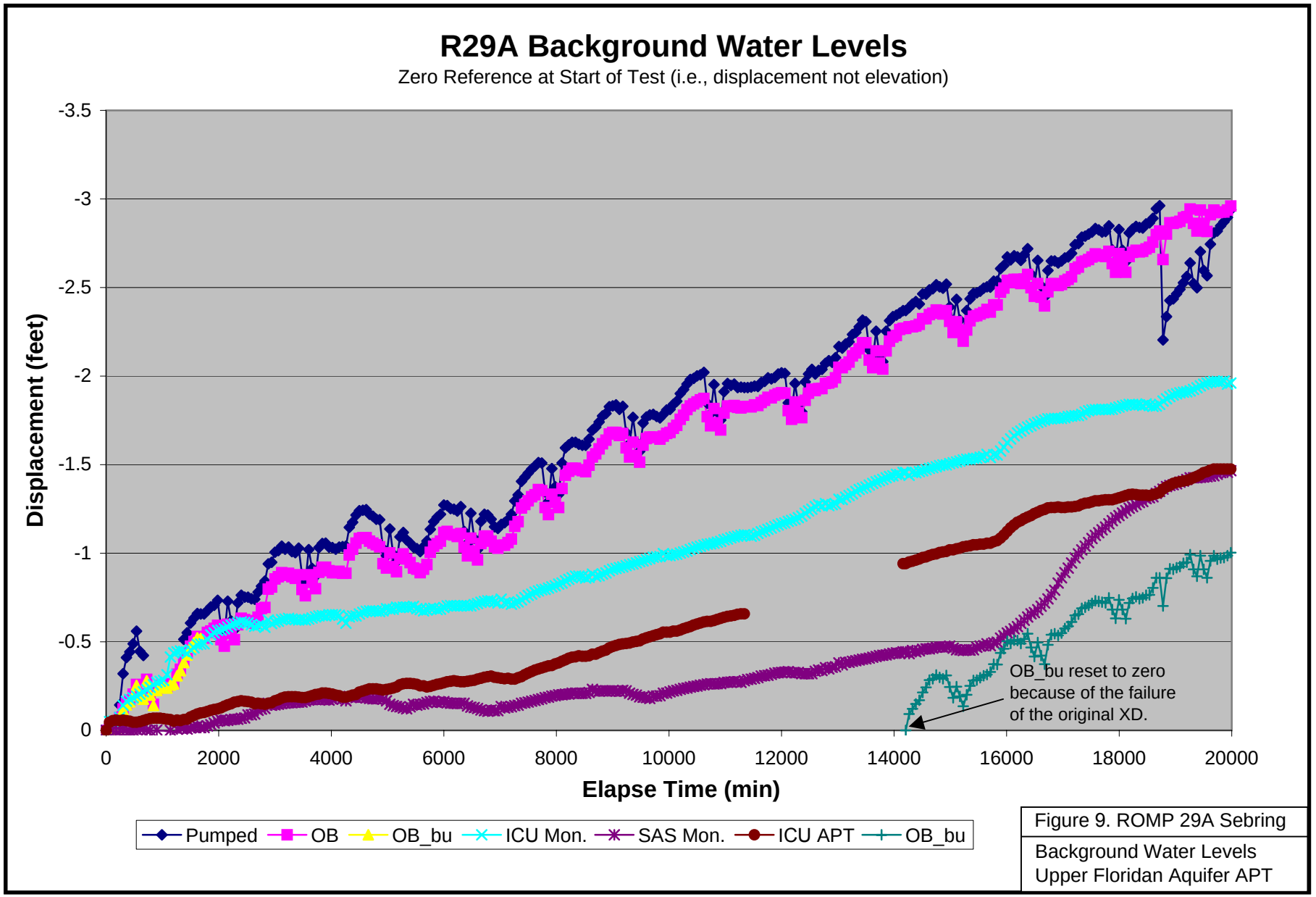
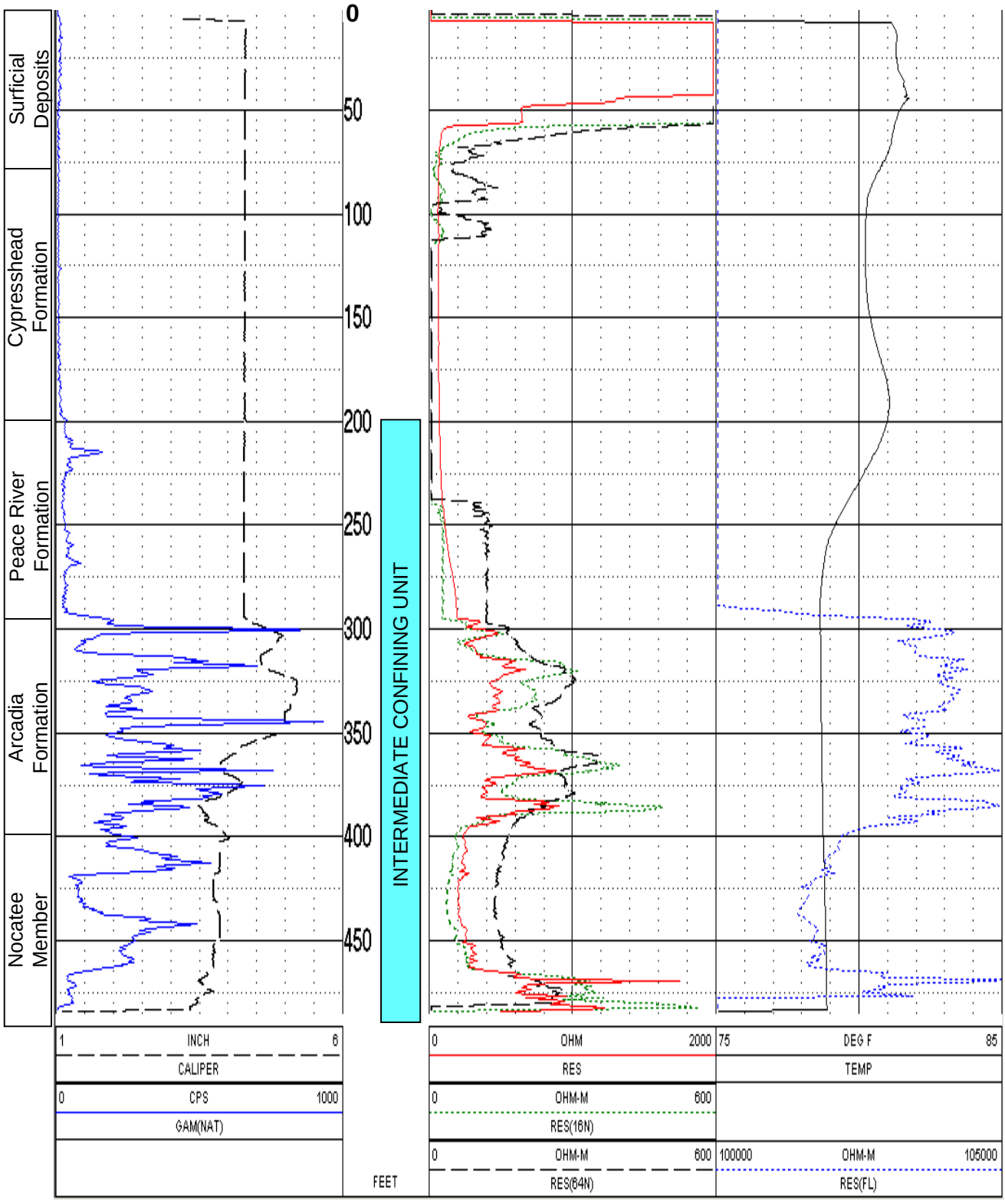


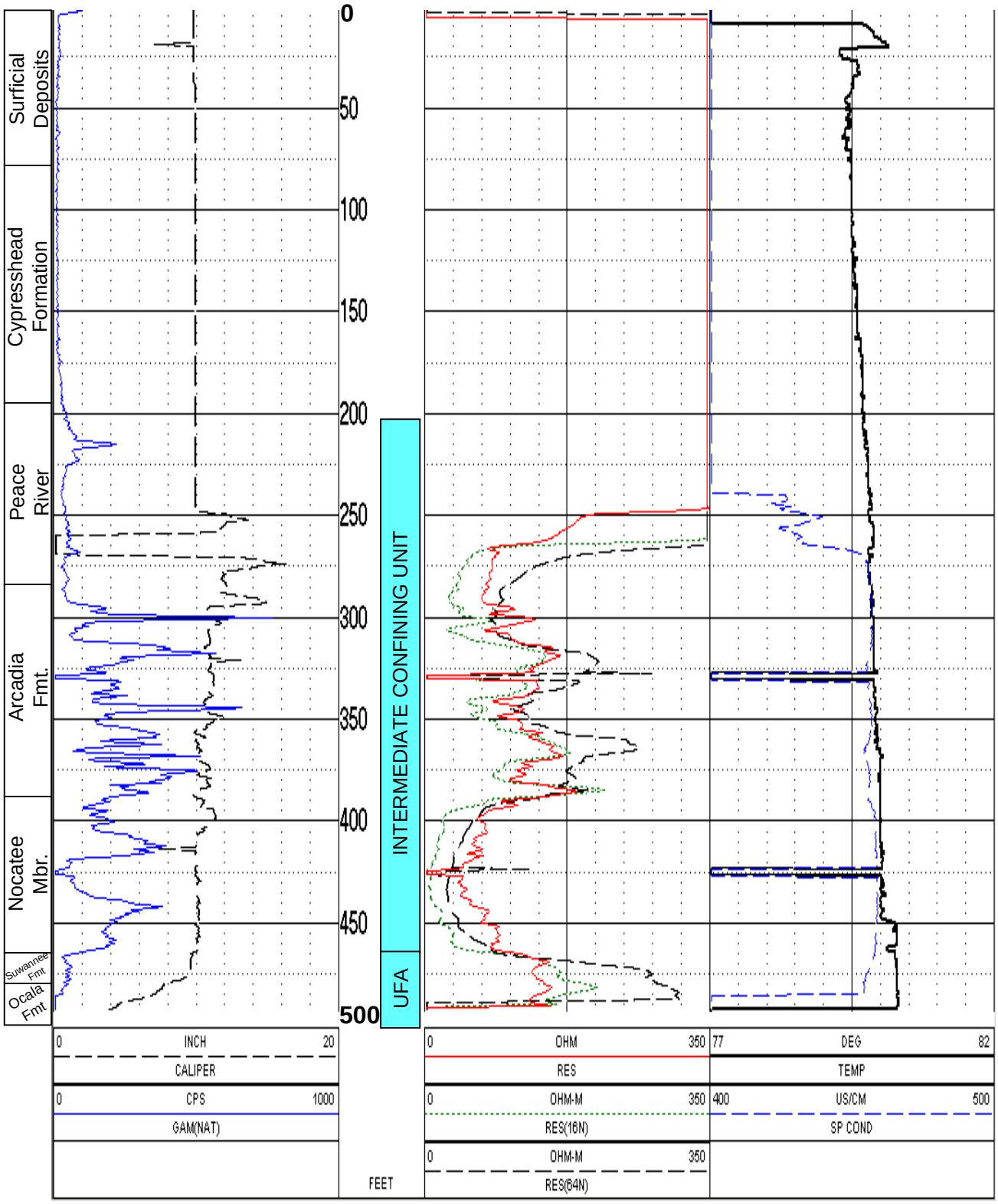
Figure 9. ROMP 29A Sebring
Background Water Levels
Upper Floridan Aquifer APT



Logged Date: December 14, 2000
Tool No.: 9041 & 9064 (caliper)
Casing Depth: 294 feet bls
Comments: IAS logs

Figure 10. ROMP 29A - Sebring

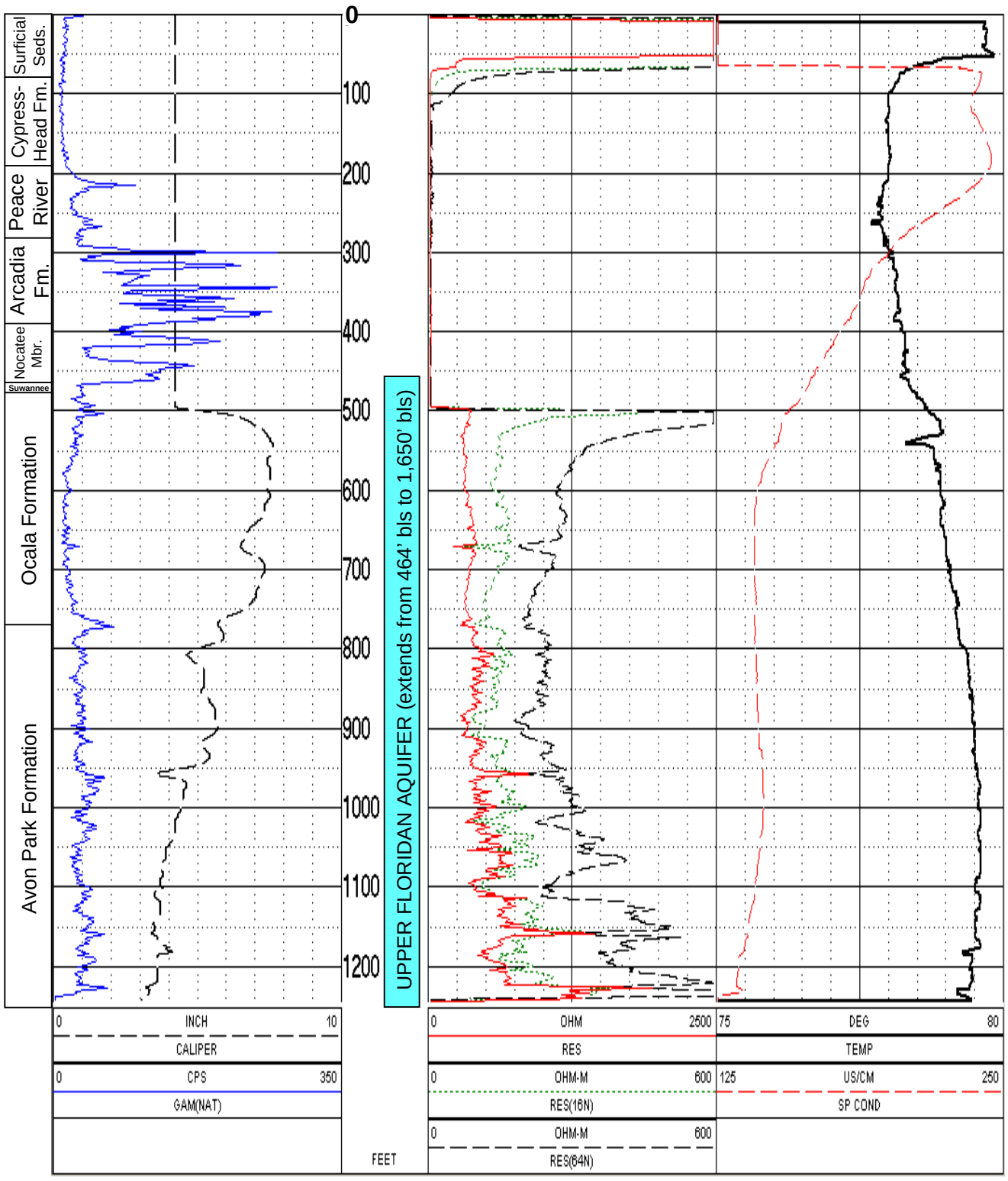
Geophysical Logs (294 – 484 feet bls)



Logged Date: January 17, 2001
Tool No.: 8043 & 9064 (caliper)
Casing Depth: 250 feet bls
Comments: IAS and shallow UFA logs
Tool 8043 did not work 328-330 & 424-426' bls

Figure 11. ROMP 29A - Sebring

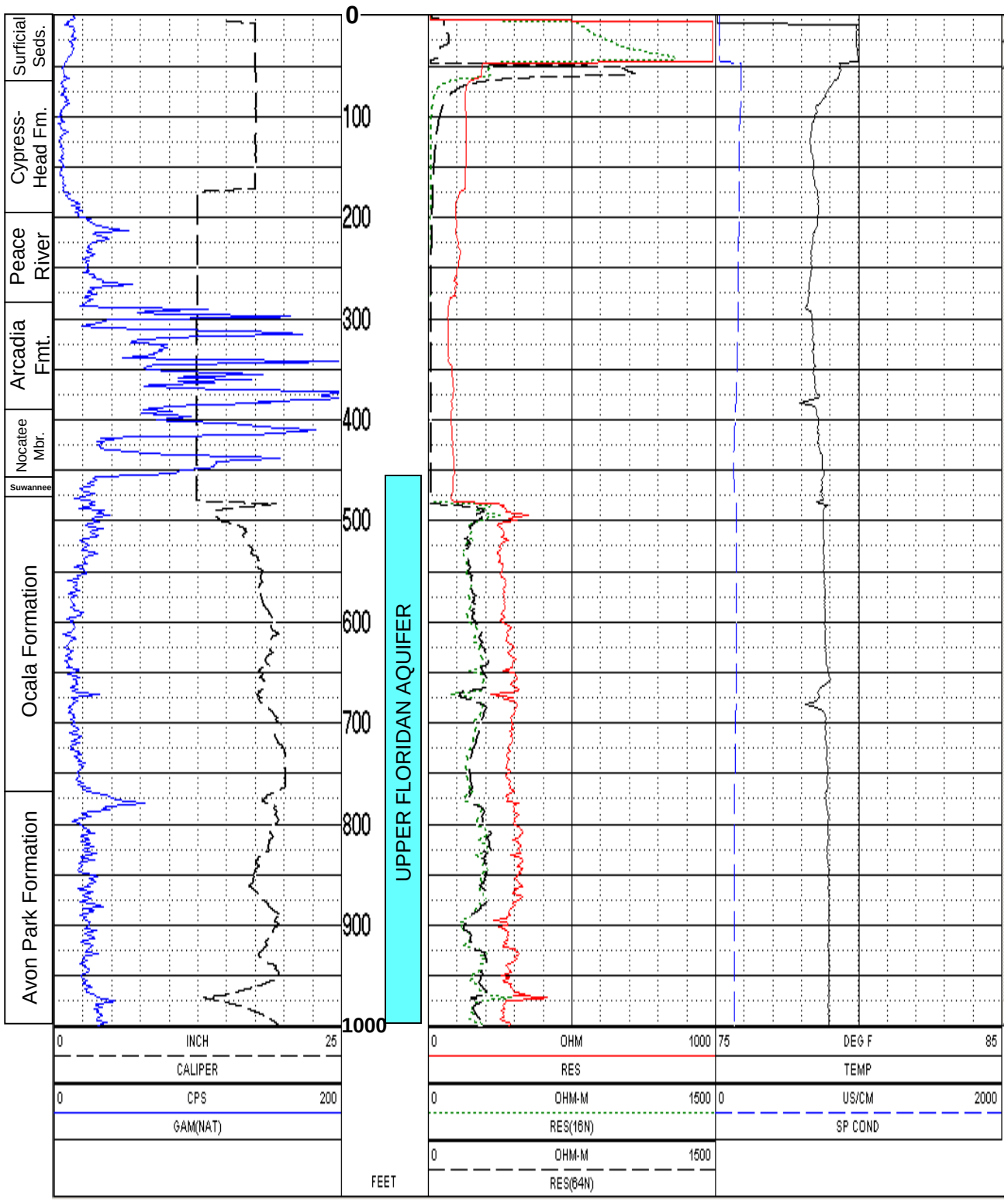
Geophysical Logs (250 – 494 feet bls)



Logged Date: April 12, 2001
Tool No.: 8043 & 9065 (caliper)
Casing Depth: 494 feet bls
Comments: Log for the majority of the UFA

Figure 12. ROMP 29A - Sebring

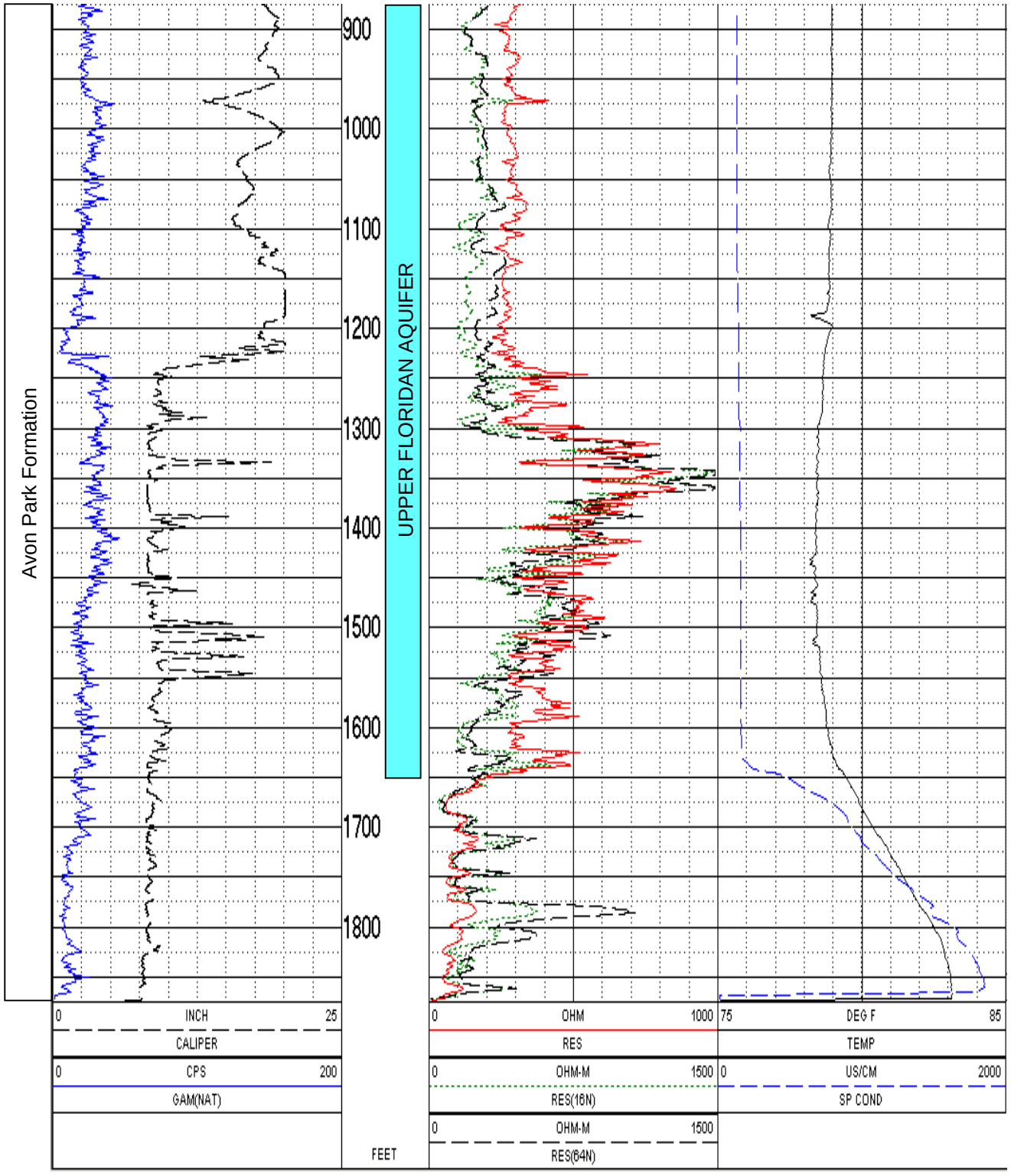
Geophysical Logs (494 – 1244 feet bls)



Logged Date: August 10, 2001
Tool No.: 8043 & 9065 (caliper)
Casing Depth: 478 feet bls
Comments: Log for Deep Exploratory

Figure 13. ROMP 29A - Sebring

Geophysical Logs (478 – 1000 feet bls)

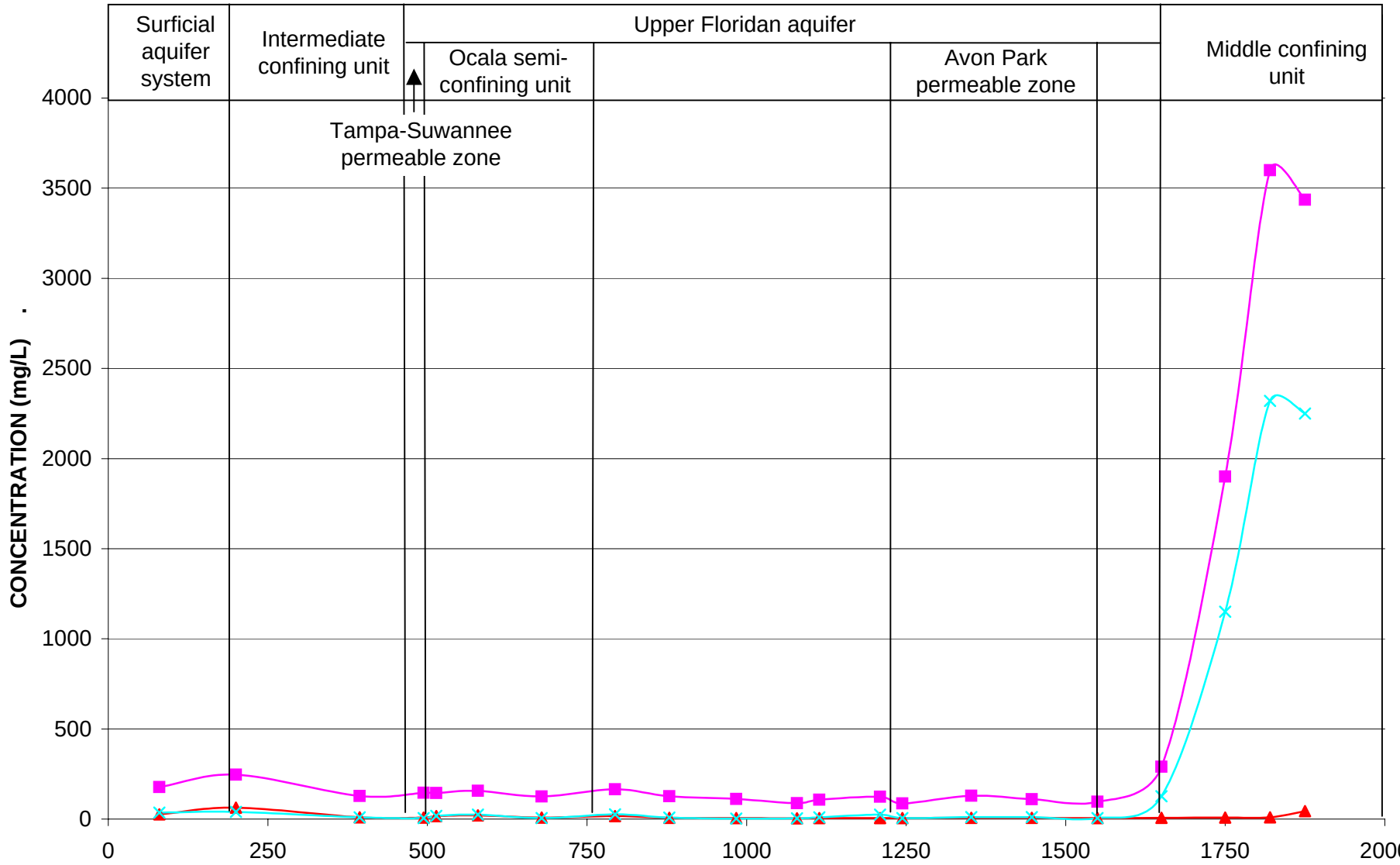


Logged Date: August 10, 2001
Tool No.: 8043 & 9065 (caliper)
Casing Depth: 478 feet bls
Comments: Log for Deep Exploratory

Figure 14. ROMP 29A - Sebring

Geophysical Logs (875 – 1,875 feet bls)

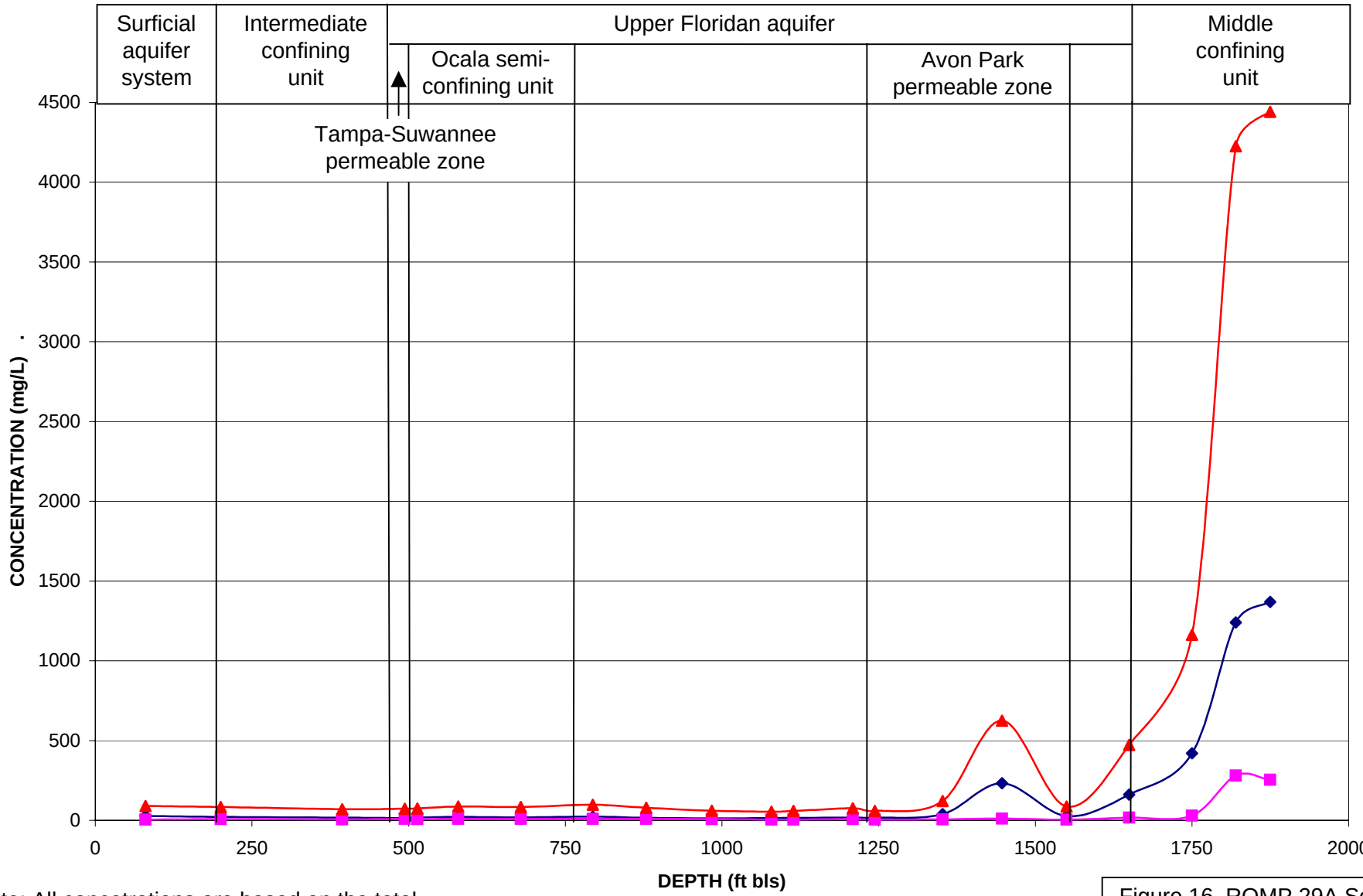
ROMP 29A WATER QUALITY WITH DEPTH



Note: All concentrations are based on the total depth of the corehole at the time of the sampling. See Table 2 for Sample Details.

Figure 15. ROMP 29A Sebring Water Quality with Depth (Chloride, Sulfate, & TDS)

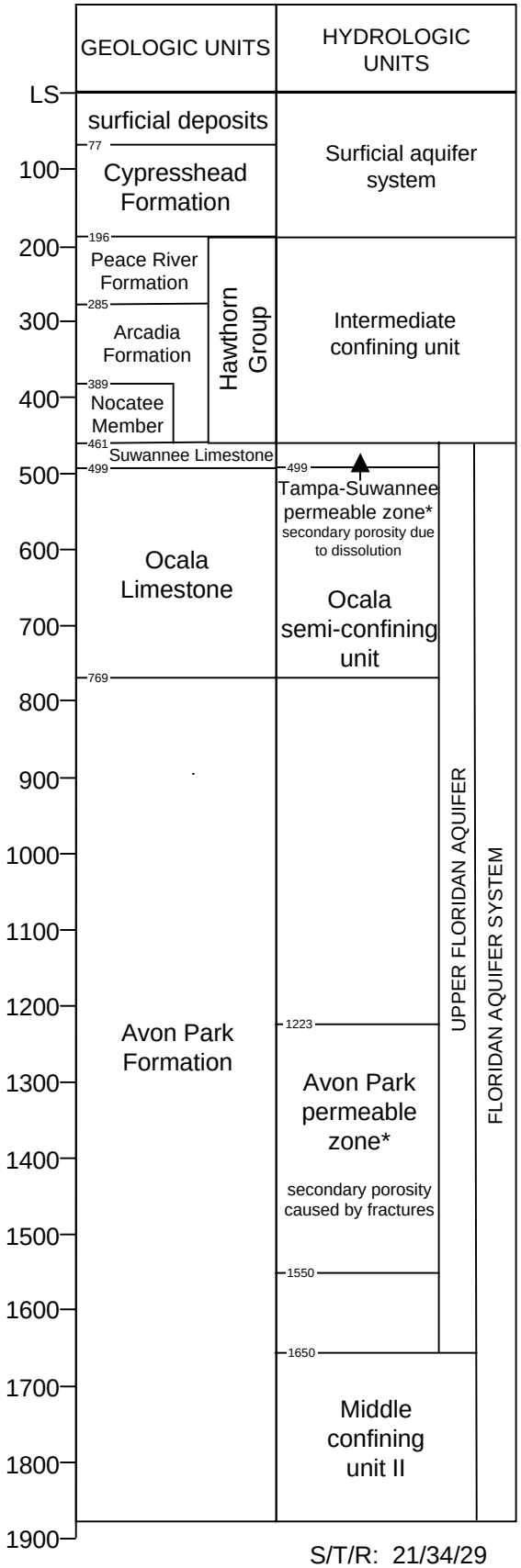
ROMP 29A WATER QUALITY WITH DEPTH

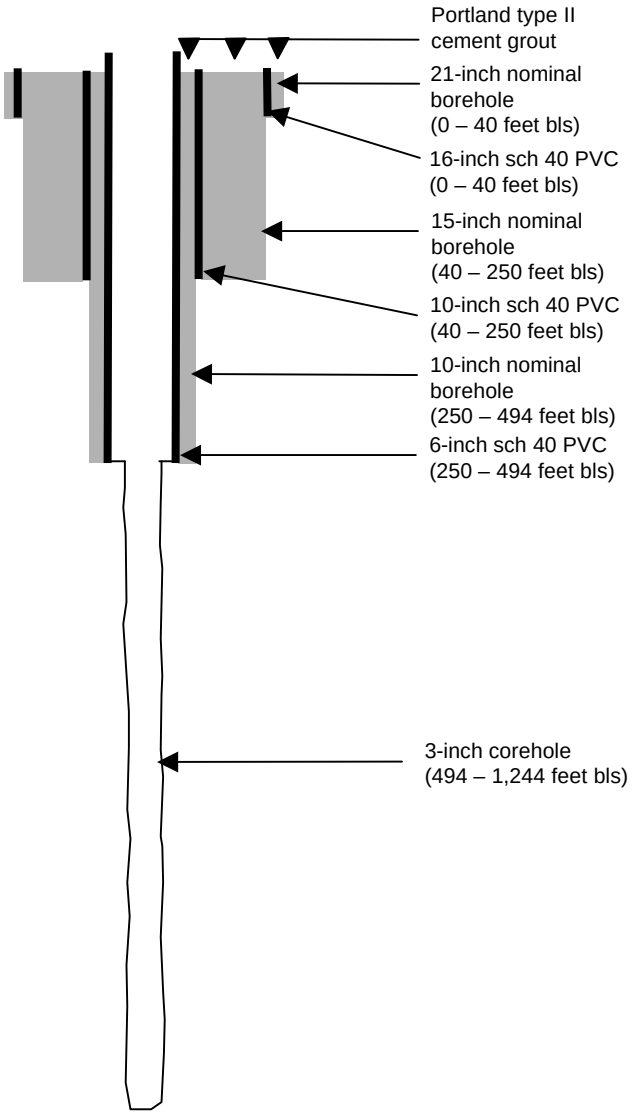


Note: All concetrations are based on the total depth of the corehole at the time of the sampling. See Table 2 for Sample Details.

Figure 16. ROMP 29A Sebring

Water Quality with Depth (Ca, Mg, Total Hardness)

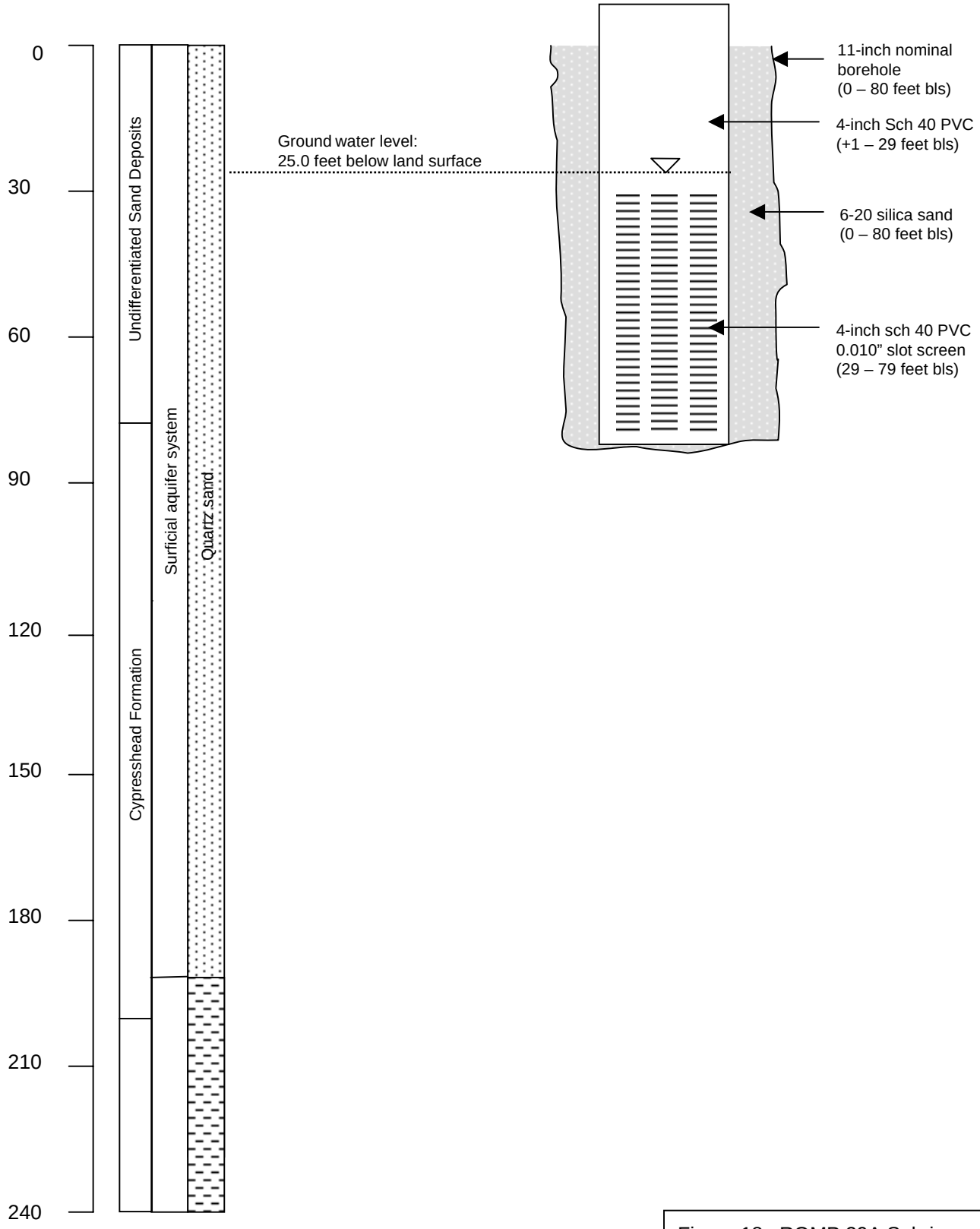




S/T/R: 21/34/29
Latitude: 27 30 10.2
Longitude: 81 28 12.6

Figure 17. ROMP 29A Sebring

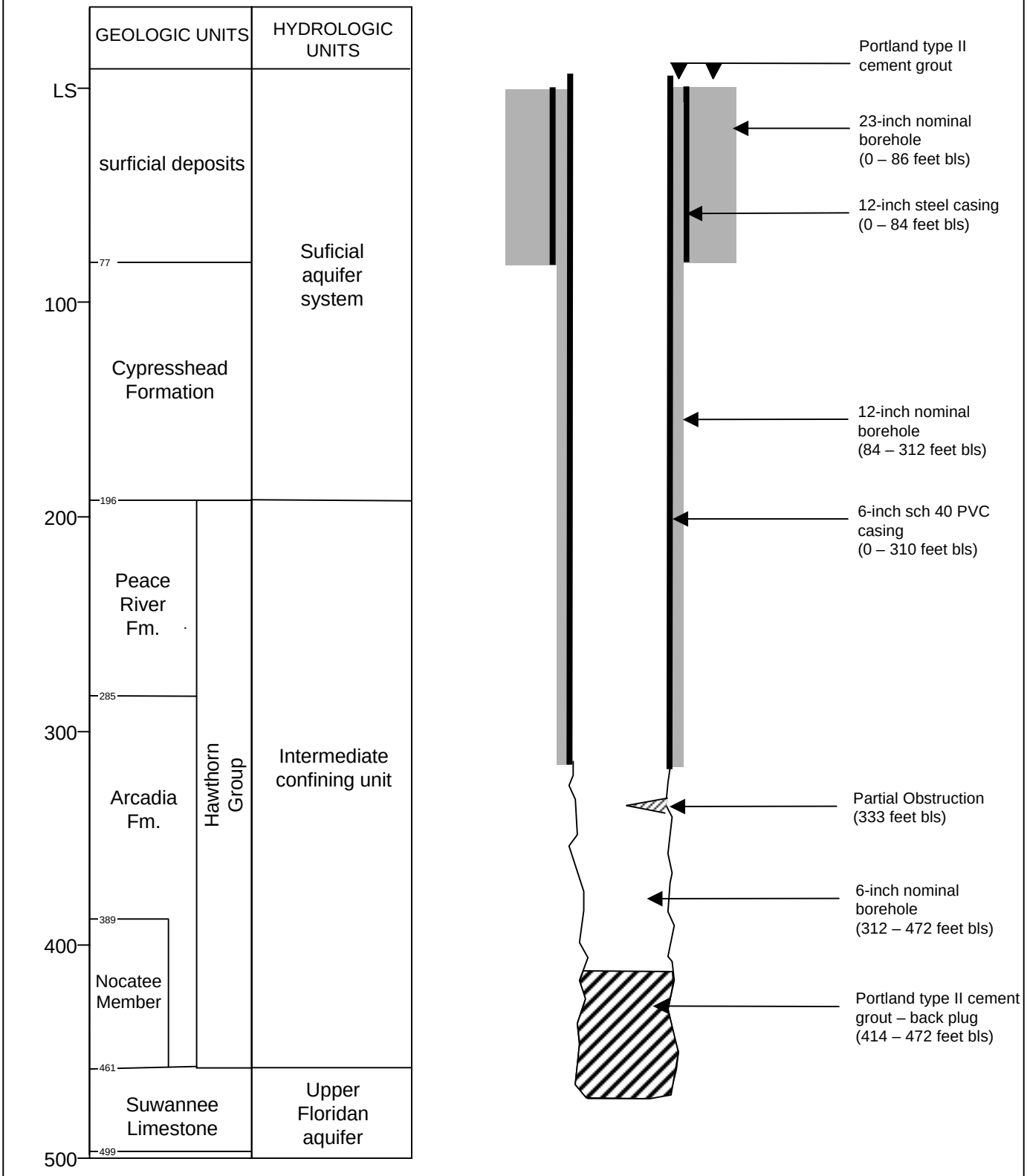
Temporary UFA OB (Corehole) Well As-Build Diagram



S/T/R: 21/34/29
Latitude: 27 30 09.9
Longitude: 81 25 11.4

Figure 18. ROMP 29A Sebring

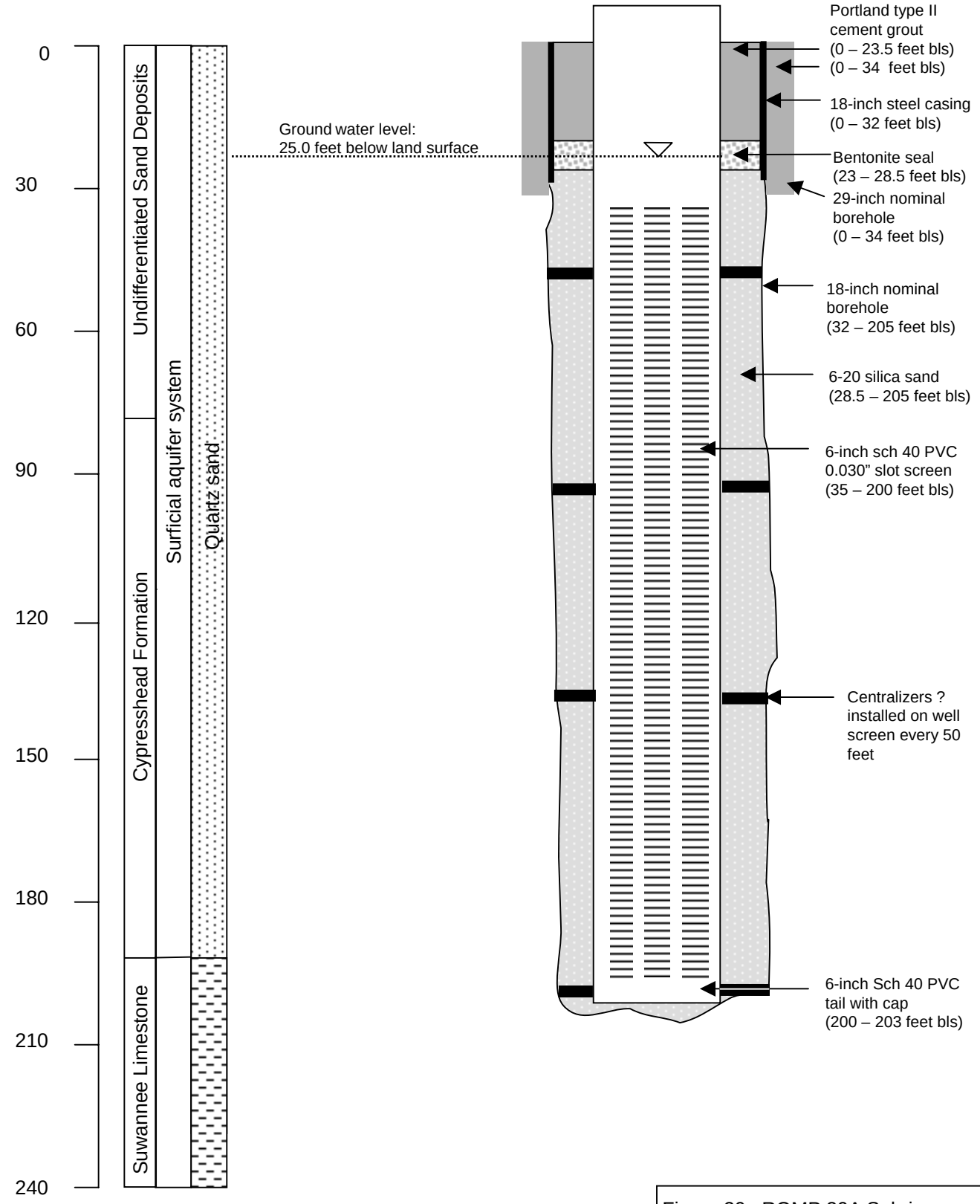
Temporary Surficial Aquifer System
OB/Water Supply Well As-Build Diagram



S/T/R: 21/34/29
Latitude: 27 30 09.8
Longitude: 81 25 10.3

Figure 19. ROMP 29A Sebring

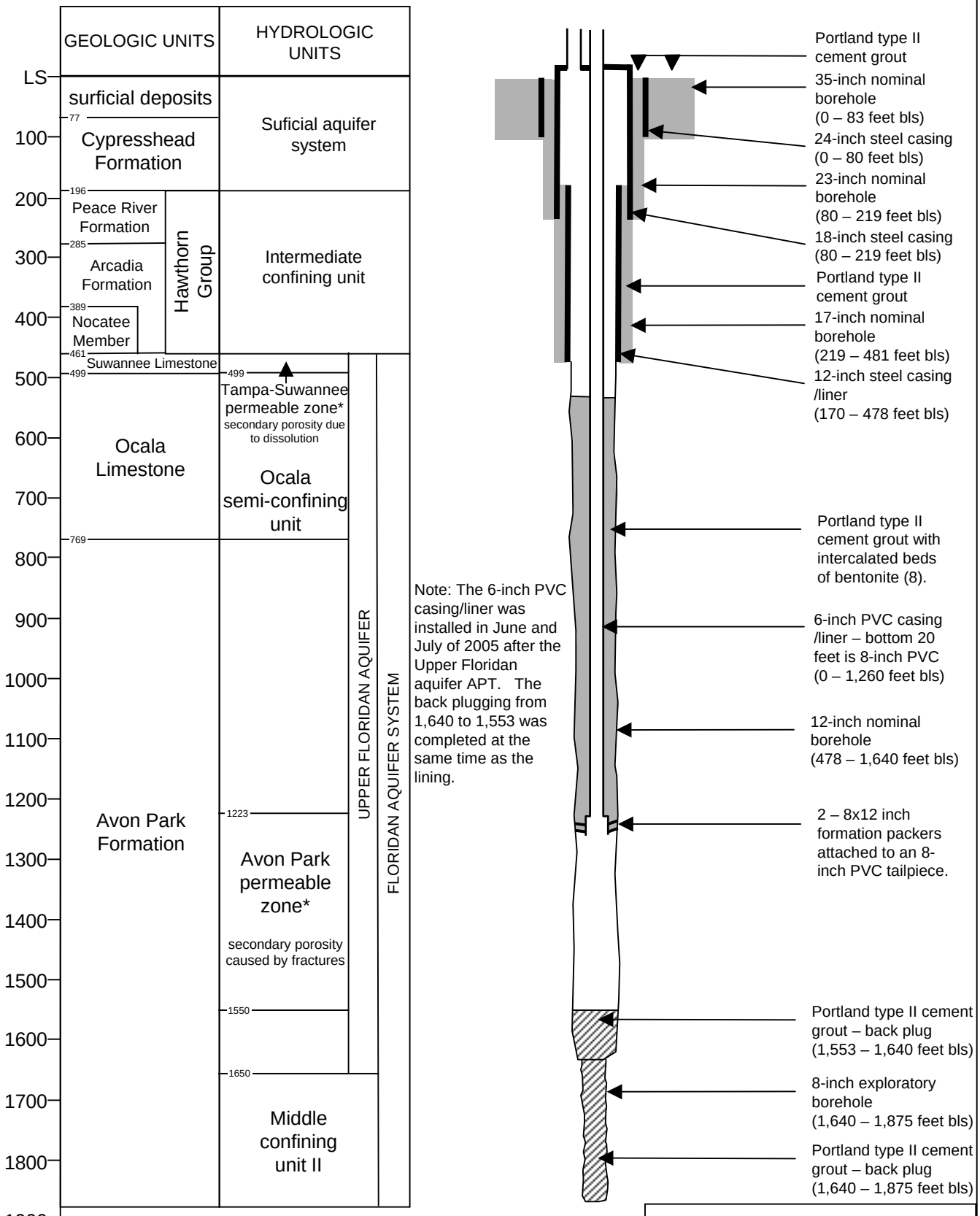
Permanent Intermediate Aquifer System Monitor Well As-Build Diagram



S/T/R: 21/34/29
Latitude: 27 30 09.8
Longitude: 81 25 10.5

Figure 20. ROMP 29A Sebring

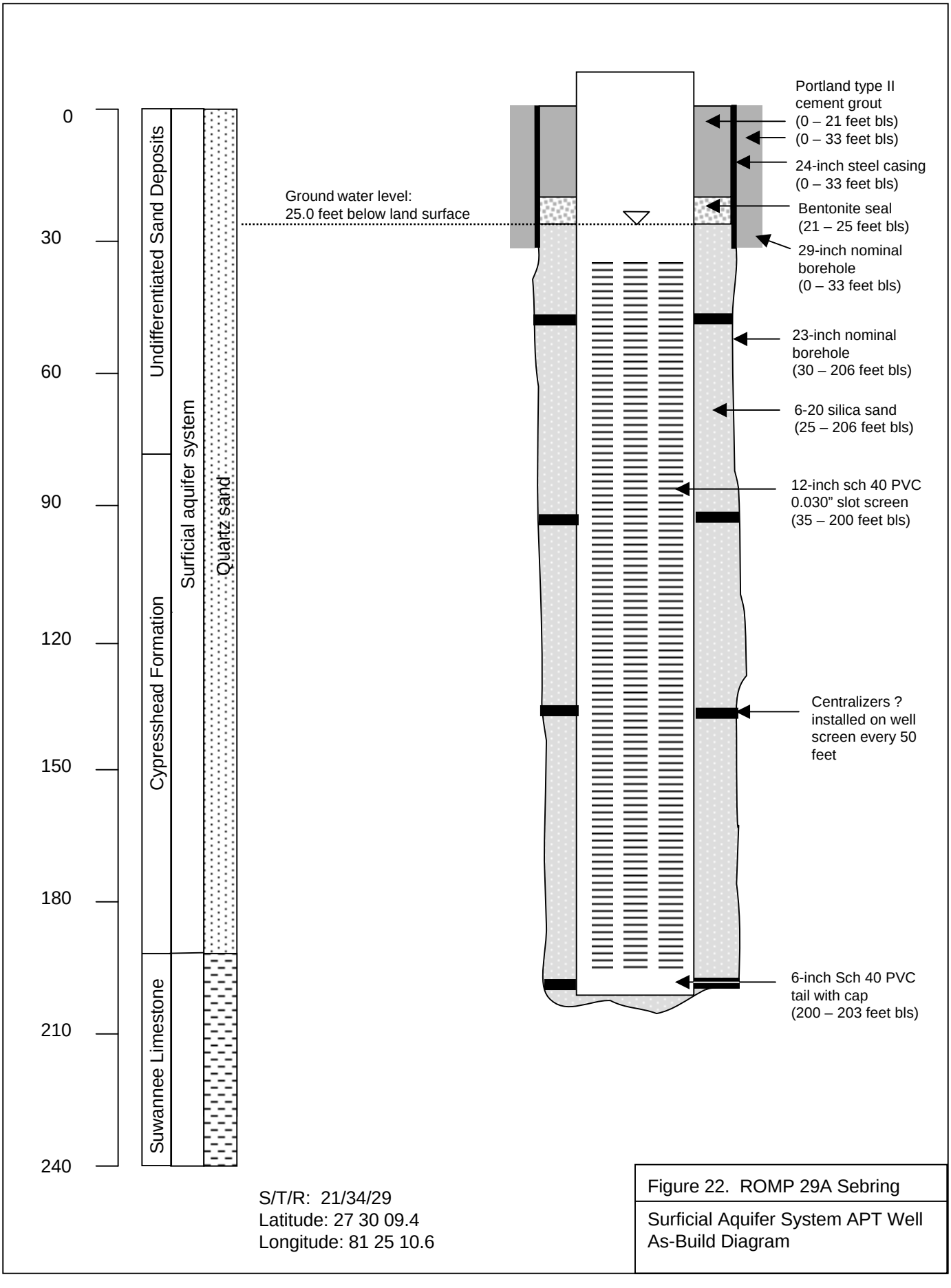
Permanent Surficial Aquifer System
Monitor Well As-Build Diagram



S/T/R: 21/34/29
Latitude: 27 30 09.8
Longitude: 81 25 10.5

Figure 21. ROMP 29A Sebring

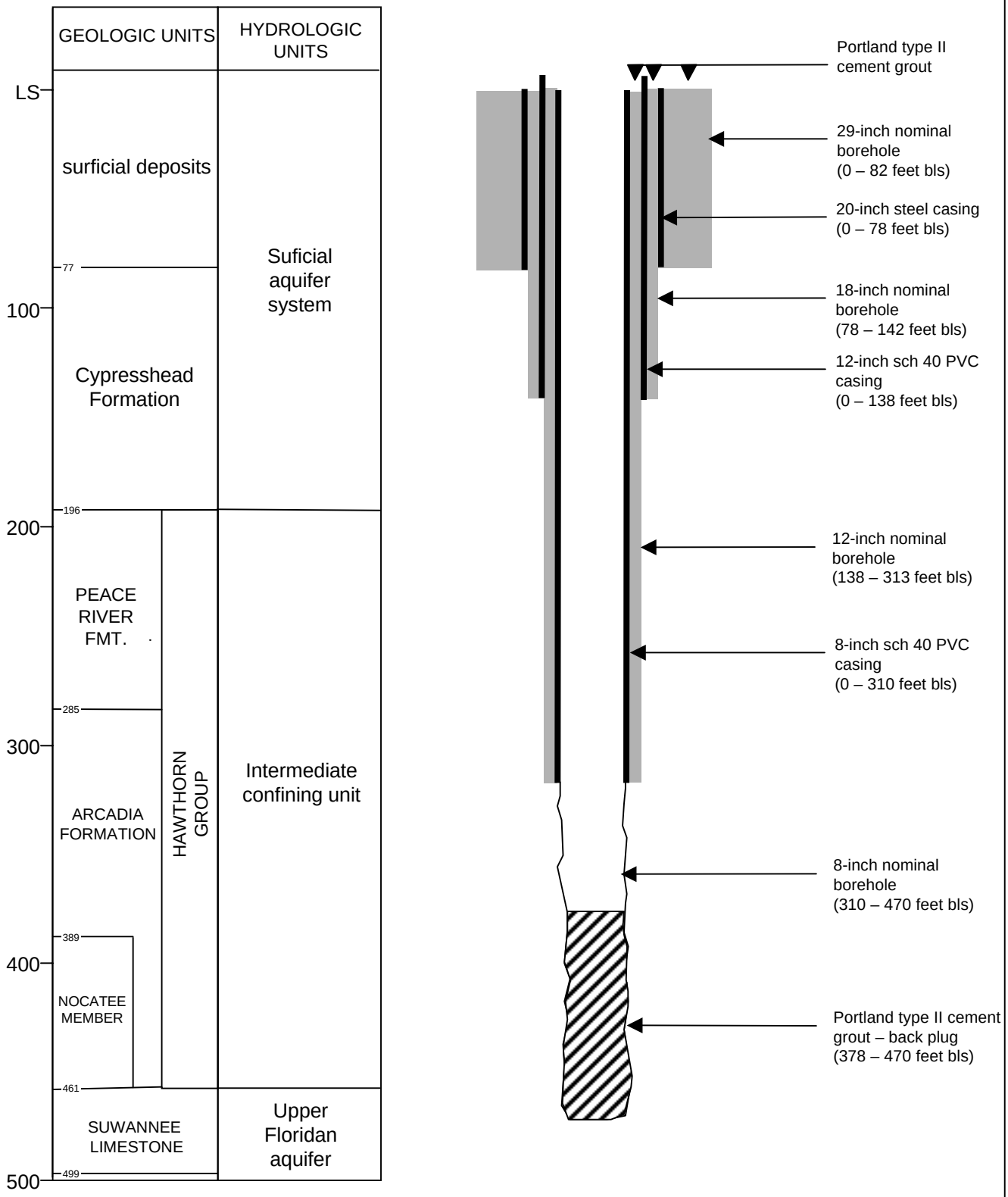
Permanent Upper Floridan Monitor / APT Well As-Build Diagram



S/T/R: 21/34/29
Latitude: 27 30 09.4
Longitude: 81 25 10.6

Figure 22. ROMP 29A Sebring

Surficial Aquifer System APT Well As-Build Diagram



S/T/R: 21/34/29
Latitude: 27 30 09.7
Longitude: 81 25 11.4

Figure 23. ROMP 29A Sebring

Intermediate Aquifer System APT Well As-Build Diagram

TABLES

Table 1. Summary of Specific Capacity and Slug Testing Data from the Packer Tests.

DATE	TEST ID	INFLATED PACKER DEPTH (ft bls)	TOTAL CORE DEPTH (ft bls)	SLUG TEST HYDRAULIC CONDUCTIVITY (ft/day)	SPECIFIC CAP. HYDRAULIC CONDUCTIVITY (ft/day)	SLUG TEST TRANSMISSIVITY (ft^2/day)	SPECIFIC CAP. TRANSMISSIVITY (ft^2/day)	COMMENTS
COREHOLE DRILLING								
12/12/00	ST1	294	484	0.1				no water purged; no pacer set
12/19/00	PT1	366	484	0.6				no water purged
12/20/00	PT2	403	484	0.4				no water purged
12/20/00	PT3	462	484	0.5				no water purged
12/20/00	PT4	294	484	0.3				no water purged
01/03/01	PT5	484	494	7				
02/01/01	ST6	496	514	0.2	2	3	34	*no packer set, new csg cement depth
02/01/01	ST7	496	539	0.1				*no packer set, new csg cement depth
02/07/01	PT8	554	579	0.2	0.9	4	22	
02/13/01	PT9	654	679	0.07	0.2	2	6	
02/21/01	PT10	769	794	0.4	1	10	30	
03/06/01	PT11	854	879	0.3	1	8	27	
03/20/01	PT12	956	984	0.2	0.5	5	15	
04/03/01	PT13	1054	1079	0.4	2	10	44	
04/04/01	PT14	1074	1114	0.4	2	18	62	
04/09/01	PT15	1165	1209	0.3	1	11	62	
04/10/01	PT16	1219	1244	2	34	55	860	
UFA EXPLORATORY DRILLING								
06/19/01	PT17	1312	1352	0.2		7		
06/26/01	PT18	1380	1447	0.1		6		
06/28/01	PT19	1524	1550	0.1		2		
07/09/01	PT20	1578	1650	0.6		46		
07/18/01	PT21	1690	1750	0.3		20		
07/25/01	PT22	1775	1820	0.05		2		
08/13/01	PT23	1805	1875	0.1		5		

Note: As indicated in the associated text, the estimated K values should only be used to determine the relative K between the tested zones. These parameters should not be used quantitativly.

Table 2. Field and Laboratory Water Quality Results Collected During Packer Tests.

WELL UID #	DATE (MM/DD/YY)	SAMPLE TIME (HH:MM)	INTERVAL (ft bls)	FIELD				LABORATORY													CALCULATED			Sample Collection Methods/Remarks
				TEMP. (deg. C)	WATER DENSITY (g/cm^3)	pH (SU)	SPECIFIC CONDUCT. (umhos/cm)	pH (SU)	SPECIFIC CONDUCT. (umhos/cm)	MAJOR ANIONS Cl^- (mg/L)	SO_4^- (mg/L)	HCO_3^- (mg/L)	MAJOR CATIONS Ca^{++} (mg/L)	Mg^{++} (mg/L)	Na^+ (mg/L)	K^+ (mg/L)	Fe^{++} (mg/L)	Sr^{++} (mg/L)	SiO_2 (mg/L)	TDS (mg/L)	**Ca & Mg HARDNESS (mg/L)**	**TOTAL ALKALINITY (mg/L)**	**IONIC STRENGTH**	
2557 18208 0	04/24/02	14:00	50-80	25.9	NT	6.05	289	6.23	291	26.7	35.7	32.8	28	5.07	16.3	5.8	<0.03	0.76	4.2	177	**90.28**	**32.80**	**0.004**	Surficial OB well
2557 18208 0	12/11/00	15:49	294-394	27	0.9998	8.4	201	7.90	196	9.85	9.48	57.4	17.3	6.56	13.1	4.06	0.03	NT	16.3	128	**69.88**	**57.40**	**0.003**	4" steel HW @ 294. Stainless steel bailer 20 feet off bottom
2557 18208 0	01/02/01	10:50	484-494	23.3	1	8.19	193	8.00	183	8.61	5.83	69	14.7	8.88	6.42	1.85	<0.03	3.14	13.4	146	**72.98**	**69.00**	**0.003**	Packer test, air lift sample
2557 18208 0	01/31/01	16:00	496-514	25.5	0.991	NT	226	7.36	225	16.5	18.2	54.9	17.4	7.59	12.6	3.73	<0.03	2.98	10.7	145	**74.37**	**54.90**	**0.003**	Packer test, air lift sample
2557 18208 0	02/07/01	16:00	554-579	24.9	0.9998	8.05	272	7.44	275	20.5	24.5	56.1	21	8.63	14	4.88	<0.03	5.26	9.8	157	**87.57**	**56.10**	**0.004**	Packer test, bailer sample
2557 18208 0	02/13/01	14:30	654-679	25.6	0.999	8.06	197	7.35	196	8.3	6.11	77.8	17.9	9.44	6.14	1.95	0.05	5.17	14	125	**83.22**	**77.80**	**0.003**	Packer test, air lift sample
2557 18208 0	02/21/01	11:00	769-794	25.6	1	8.14	279	7.73	285	16.3	26.5	68.8	23.2	9.63	11.7	4.14	0.05	4.27	10	165	**97.14**	**68.80**	**0.004**	Packer test, air lift sample
2557 18208 0	03/06/01	15:00	854-879	24.6	0.9998	8.3	196	7.78	201	7.04	8.41	76.4	15	10	5.73	1.36	<0.03	5.26	12.9	126	**78.34**	**76.40**	**0.003**	Packer test, air lift sample
2557 18208 0	03/20/01	14:00	956-984	23.8	1	9.02	157	7.85	158	5.48	2.59	68.6	12.1	7.54	6.15	1.31	0.04	5.06	11.4	112	**61.02**	**68.60**	**0.002**	Packer test, air lift sample
2557 18208 0	04/03/01	09:00	1,054-1,079	25.3	0.9997	NT	139.8	7.83	140	4.62	4.04	62.5	13.9	4.97	3.45	0.76	0.05	4.38	10.8	88	**54.91**	**62.50**	**0.002**	Packer test, air lift sample
2557 18208 0	04/04/01	09:00	1,074-1,114	25.5	0.9999	NT	157.3	7.79	157	4.91	9.47	62.7	16	4.75	3.7	0.98	<0.03	6.35	10.9	107	**59.21**	**62.70**	**0.002**	Packer test, air lift sample
2557 18208 0	04/09/01	**12:00**	1,165-1,209	25.5	0.9997	NT	197.6	7.82	200	5.08	25.4	67.5	17.6	7.88	3.82	0.73	<0.03	7.71	10.7	124	**76.06**	**67.50**	**0.003**	Packer test, air lift sample
2557 18208 0	04/11/01	09:00	1,219-1,244	25.8	0.9998	NT	142.6	8.05	144	5.22	5.2	62.8	16.4	4.41	4	0.47	0.03	1.46	10.6	86	**58.80**	**62.80**	**0.002**	Packer test, air lift sample
2557 34935 0	06/19/01	18:00	1,312-1,352	25.7	NT	NT	164.4	7.64	163	7.18	10.7	60	39.3	5.56	4.88	0.85	0.61	1.05	11.3	130	**120.30**	**60.00**	**0.003**	Packer test, air lift sample, during exploritory drilling
2557 34935 0	06/26/01	11:00	1,380-1,447		NT			7.78	163	7.04	10.8	129	233	11.6	4.9	0.94	0.22	2.67	11.3	110	**625.34**	**129.00**	**0.014**	Packer test, air lift sample, during exploritory drilling, non-filtered
2557 34935 0	06/28/01	18:00	1,523-1,550	25.6			145	7.59	148	5.44	4.9	59.5	26.6	5	3.59	0.58	0.04	0.68	10.6	97	**86.52**	**59.50**	**0.003**	Packer test, air lift sample, during exploritory drilling, non-filtered
2557 34935 0	07/09/01	13:00	1,578-1,650	26.2			420	7.75	413	6.64	127	148	162	17.4	4.46	1.17	0.56	24.2	11.7	290	**473.20**	**148.00**	**0.014**	Packer test, air lift sample, during exploritory drilling, non-filtered
2557 34935 0	07/18/01	11:00	1,690-1,750	25.9			2,070	7.69	1,999	8.26	1,150	67	421	29	5.1	1.02	0.48	3.52	11	1,900	**1,162.99**	**67.10**	**0.048**	Packer test, air lift sample, during exploritory drilling, non-filtered???
2557 34935 0	07/25/01	19:30	1,775-1,820	26.3			3,390	7.86	3,330	10.3	2,320	333	1,240	280	7.52	2.33	4.37	7	12.5	3,600	**4,226.16**	**333.00**	**0.137**	Packer test, air lift sample, during exploritory drilling, non-filtered???
2557 34935 0	08/13/01	15:00	1,805-1,875					7.65	3436	43.7	2,250	606	1,370	254	7.31	1.99	3.88	6.77	12.6	3,436	**4,441.44**	**606.00**	**0.142**	Packer test, air lift sample, during exploritory drilling, non-filtered???

APPENDIX A.
Lithologic Log

LITHOLOGIC WELL LOG PRINTOUT SOURCE - FGS

WELL NUMBER: W-18535 COUNTY - ROMP 29
TOTAL DEPTH: 1875 FT. LOCATION: T.34S R.29E S.21 DD
SAMPLES - NONE LAT = 27D 30M 10S
LON = 81D 25M 12S
COMPLETION DATE: 01/10/01 ELEVATION: 128 FT
OTHER TYPES OF LOGS AVAILABLE - ELECTRIC, GAMMA, TEMPERATURE, CALIPER, FLUID

OWNER/DRILLER:Romp 29A

WORKED BY:RICK LEE PROF GEO SWFWMD CORE DRILLER GEORGE DEGROOT-GOOD CORE RECO
CONTRACTED EXPLORATORY DRILLED TO 1875 FT BLS BY DIVERSIFIED DRILLING CORP
DISTRICT CORE DRILLING CREW ONSITE 11/7/00 AND OFFSITE 4/26/01
DDC CREW ONSITE 4/23/01 AND OFFSITE 10/1/01
RAL-SWFWMD-RESOURCE DATA SECTION SWFWMD HOLLOW STEM AUGERS 0-80FT,BAG
SAMPLES 80-285FT,NQ WIRELINE CORE 285-1244FT
DDC 1250-1875FT WHILE EXPLORATORY DRILLING TO EVAPORITES, 10FT CUTTINGS

0.0	-	77.0	090UDSS	UNDIFFERENTIATED SAND, CLAY, AND SHELLS
77.0	-	196.0	121CYPR	CYPRESSHEAD FM.
196.0	-	285.0	122PCRV	PEACE RIVER FM.
285.0	-	389.0	122ARCA	ARCADIA FM.
389.0	-	464.0	122NOCA	NOCATEE MEMBER OF ARCADIA FM.
464.0	-	479.0	123SWNN	SUWANNEE LIMESTONE
479.0	-	770.0	124OCAL	OCALA GROUP
770.0	-	1875.0	124AVPK	AVON PARK FM.

0 - 15 SAND; LIGHT YELLOWISH ORANGE TO DARK YELLOWISH ORANGE
40% POROSITY: INTERGRANULAR
GRAIN SIZE: FINE; RANGE: VERY FINE TO FINE
MEDIUM SPHERICITY; UNCONSOLIDATED
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: PHOSPHATIC SAND-01%, IRON STAIN-25%

15 - 25 SAND; MODERATE YELLOWISH BROWN TO DARK YELLOWISH ORANGE
40% POROSITY: INTERGRANULAR
GRAIN SIZE: FINE; RANGE: VERY FINE TO FINE
MEDIUM SPHERICITY; UNCONSOLIDATED
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: PHOSPHATIC SAND-01%, IRON STAIN-50%

25 - 30 SAND; GRAYISH ORANGE TO LIGHT YELLOWISH ORANGE
40% POROSITY: INTERGRANULAR
GRAIN SIZE: FINE; RANGE: VERY FINE TO FINE
MEDIUM SPHERICITY; UNCONSOLIDATED
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: PHOSPHATIC SAND-01%, IRON STAIN-10%

30 - 40 SAND; GRAYISH ORANGE
40% POROSITY: INTERGRANULAR
GRAIN SIZE: FINE; RANGE: VERY FINE TO FINE
MEDIUM SPHERICITY; UNCONSOLIDATED
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: PHOSPHATIC SAND-01%, IRON STAIN-05%

40 - 60 SAND; GRAYISH ORANGE
40% POROSITY: INTERGRANULAR
GRAIN SIZE: FINE; RANGE: VERY FINE TO FINE
MEDIUM SPHERICITY; UNCONSOLIDATED
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: PHOSPHATIC SAND-01%, IRON STAIN-10%

60 - 65 SAND; GRAYISH ORANGE
40% POROSITY: INTERGRANULAR
GRAIN SIZE: FINE; RANGE: VERY FINE TO FINE
MEDIUM SPHERICITY; UNCONSOLIDATED
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: PHOSPHATIC SAND-01%, IRON STAIN-10%
FOSSILS: MOLLUSKS, FOSSIL FRAGMENTS

65 - 77 SAND; VERY LIGHT ORANGE
40% POROSITY: INTERGRANULAR
GRAIN SIZE: FINE; RANGE: FINE TO MEDIUM; MEDIUM SPHERICITY
UNCONSOLIDATED
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: PHOSPHATIC SAND-01%, IRON STAIN-<5%

77 - 79 SAND; WHITE
30% POROSITY: INTERGRANULAR
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MEDIUM SPHERICITY; UNCONSOLIDATED
ACCESSORY MINERALS: PHOSPHATIC SAND-01%, CLAY-05%
BAG SAMPLES 10FT

79 - 156 SAND; WHITE TO PINKISH GRAY
40% POROSITY: INTERGRANULAR
GRAIN SIZE: MEDIUM; RANGE: FINE TO MEDIUM
MEDIUM SPHERICITY; UNCONSOLIDATED
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: PHOSPHATIC SAND-01%, SHELL-05%
FOSSILS: FOSSIL FRAGMENTS, MOLLUSKS
SHELL FRAGMENTS FROM 116FT TO 146FT 05%. A SLIGHT INCREASE
IN PHOSHATE WITH DEPTH TO 02% (INTERVAL LISTED AS 76.0FT.
TO 156.0FT.)

156 - 166 SAND; WHITE TO PINKISH GRAY
40% POROSITY: INTERGRANULAR
GRAIN SIZE: MEDIUM; RANGE: MEDIUM TO MEDIUM
MEDIUM SPHERICITY; UNCONSOLIDATED
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: PHOSPHATIC SAND-01%, IRON STAIN-01%
SHELL-08%
FOSSILS: FOSSIL FRAGMENTS, MOLLUSKS

166 - 176 SAND; WHITE TO PINKISH GRAY
40% POROSITY: INTERGRANULAR
GRAIN SIZE: MEDIUM; RANGE: MEDIUM TO COARSE
MEDIUM SPHERICITY; UNCONSOLIDATED
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: PHOSPHATIC SAND- %, SHELL-10%
FOSSILS: FOSSIL FRAGMENTS, MOLLUSKS

176 - 186 SAND; WHITE TO PINKISH GRAY
40% POROSITY: INTERGRANULAR
GRAIN SIZE: MEDIUM; RANGE: FINE TO COARSE
MEDIUM SPHERICITY; UNCONSOLIDATED
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: PHOSPHATIC SAND-01%, CLAY-01%
SHELL-05%
OTHER FEATURES: CALCAREOUS
FOSSILS: FOSSIL FRAGMENTS, MOLLUSKS

186 - 196 SAND; WHITE TO PINKISH GRAY
25% POROSITY: INTERGRANULAR
GRAIN SIZE: MEDIUM; RANGE: LITHOGRAPHIC TO MEDIUM

MEDIUM SPHERICITY; UNCONSOLIDATED
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: CLAY-15%, SHELL-05%, SHELL-20%
OTHER FEATURES: CALCAREOUS
FOSSILS: FOSSIL FRAGMENTS, MOLLUSKS

196 - 206 CLAY; MODERATE ORANGE PINK TO GRAYISH ORANGE
08% POROSITY: INTERGRANULAR; UNCONSOLIDATED
ACCESSORY MINERALS: QUARTZ SAND-25%
OTHER FEATURES: VARIEGATED
NODULES

206 - 216 CLAY; MODERATE ORANGE PINK TO YELLOWISH GRAY
10% POROSITY: INTERGRANULAR; UNCONSOLIDATED
ACCESSORY MINERALS: QUARTZ SAND-30%, IRON STAIN-01%
OTHER FEATURES: VARIEGATED
NODULES

216 - 226 CLAY; LIGHT GRAYISH GREEN TO YELLOWISH GRAY
05% POROSITY: INTERGRANULAR; UNCONSOLIDATED
ACCESSORY MINERALS: QUARTZ SAND-30%, PHOSPHATIC SAND-03%
IRON STAIN- %, SHELL- %
OTHER FEATURES: VARIEGATED

226 - 256 CLAY; LIGHT GRAYISH GREEN TO YELLOWISH GRAY
10% POROSITY: INTERGRANULAR; UNCONSOLIDATED
ACCESSORY MINERALS: QUARTZ SAND-40%, PHOSPHATIC SAND-05%
IRON STAIN- %, SHELL-02%
OTHER FEATURES: CALCAREOUS, MUDDY
FOSSILS: FOSSIL FRAGMENTS, MOLLUSKS

256 - 259 ZERO% CORE RECOVERY

259 - 259.7 SAND; LIGHT GREENISH YELLOW TO LIGHT GRAYISH GREEN
10% POROSITY: INTERGRANULAR
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO FINE
MEDIUM SPHERICITY; UNCONSOLIDATED
CEMENT TYPE(S): CALCILUTITE MATRIX, CLAY MATRIX
SEDIMENTARY STRUCTURES: NODULAR
ACCESSORY MINERALS: PHOSPHATIC SAND-03%, SHELL-05%
OTHER FEATURES: GRANULAR, FOSSILIFEROUS, CALCAREOUS
FOSSILS: MOLLUSKS
LIMESTONE-SAND NODULE AT TOP AND SMALLER THROUGHOUT

259.7- 269 SAND; LIGHT OLIVE TO LIGHT GRAYISH GREEN
15% POROSITY: INTERGRANULAR
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO FINE
MEDIUM SPHERICITY; POOR INDURATION
CEMENT TYPE(S): CLAY MATRIX
SEDIMENTARY STRUCTURES: INTERBEDDED
ACCESSORY MINERALS: PHOSPHATIC SAND-01%, CLAY-35%
MICA-01%
OTHER FEATURES: CALCAREOUS

269 - 284 SAND; PINKISH GRAY TO WHITE
40% POROSITY: INTERGRANULAR
GRAIN SIZE: FINE; RANGE: VERY FINE TO FINE
ROUNDNESS: SUB-ANGULAR TO SUB-ROUNDED; MEDIUM SPHERICITY
UNCONSOLIDATED
ACCESSORY MINERALS: PHOSPHATIC SAND-05%, MICA-01%

284 - 289 NO SAMPLES
0% CORE RECOVERY

289 - 294.5 CALCARENITE; LIGHT GREENISH YELLOW TO LIGHT OLIVE
10% POROSITY: INTERGRANULAR
GRAIN TYPE: INTRACLASTS, CALCILUTITE
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO MEDIUM
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, CLAY MATRIX
SEDIMENTARY STRUCTURES: NODULAR
ACCESSORY MINERALS: PHOSPHATIC SAND-05%, MICA-01%
QUARTZ SAND-05%

294.5- 296.5 CALCILUTITE; WHITE
03% POROSITY: LOW PERMEABILITY
GRAIN TYPE: CALCILUTITE; 20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: LITHOGRAPHIC; RANGE: LITHOGRAPHIC TO FINE
GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: STREAKED
ACCESSORY MINERALS: PHOSPHATIC SAND-03%, SHELL-05%
QUARTZ SAND-05%
OTHER FEATURES: WEATHERED
INCREASING PHOSPHATE AND IRON STAINING WITH DEPTH

296.5- 299 CALCILUTITE; PINKISH GRAY TO YELLOWISH GRAY
05% POROSITY: LOW PERMEABILITY
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: NODULAR, STREAKED
ACCESSORY MINERALS: QUARTZ SAND-08%, PHOSPHATIC SAND-05%
IRON STAIN-05%
OTHER FEATURES: SUCROSIC

299 - 303 SANDSTONE; LIGHT OLIVE GRAY TO LIGHT GRAY
03% POROSITY: LOW PERMEABILITY
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO FINE
MEDIUM SPHERICITY; POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: INTERBEDDED, LAMINATED, MOTTLED
NODULAR, STREAKED
ACCESSORY MINERALS: PHOSPHATIC SAND-10%, CALCILUTITE-15%
OTHER FEATURES: SPECKLED, WEATHERED, CALCAREOUS

303 - 306.5 SANDSTONE; LIGHT OLIVE GRAY TO GREENISH GRAY
02% POROSITY: LOW PERMEABILITY
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO FINE
MEDIUM SPHERICITY; MODERATE INDURATION
CEMENT TYPE(S): CLAY MATRIX
SEDIMENTARY STRUCTURES: BANDED, NODULAR, STREAKED
ACCESSORY MINERALS: PHOSPHATIC SAND-01%, ORGANICS-01%

306.5- 311.5 CLAY; GREENISH GRAY TO DARK GREENISH GRAY
02% POROSITY: LOW PERMEABILITY; MODERATE INDURATION
CEMENT TYPE(S): CLAY MATRIX
SEDIMENTARY STRUCTURES: NODULAR, BANDED
ACCESSORY MINERALS: PHOSPHATIC SAND-12%, QUARTZ SAND-10%
OTHER FEATURES: DOLOMITIC

311.5- 313 SANDSTONE; LIGHT OLIVE GRAY
02% POROSITY: LOW PERMEABILITY
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO FINE
MEDIUM SPHERICITY; POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX

ACCESSORY MINERALS: PHOSPHATIC SAND-20%
OTHER FEATURES: SPECKLED, DOLOMITIC, CALCAREOUS

313 - 314.5 CALCARENITE; PINKISH GRAY TO YELLOWISH GRAY
02% POROSITY: LOW PERMEABILITY
GRAIN TYPE: CALCILUTITE, INTRACLASTS
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: LITHOGRAPHIC; RANGE: LITHOGRAPHIC TO MEDIUM
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: NODULAR
ACCESSORY MINERALS: PHOSPHATIC SAND-40%
PHOSPHATIC GRAVEL-10%, CLAY-15%, QUARTZ SAND-20%
OTHER FEATURES: FOSSILIFEROUS, SPECKLED
FOSSILS: MOLLUSKS

314.5- 316.5 SANDSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
05% POROSITY: LOW PERMEABILITY, INTERGRANULAR
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO MEDIUM
MEDIUM SPHERICITY; POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, CLAY MATRIX
SEDIMENTARY STRUCTURES: NODULAR, MOTTLED
ACCESSORY MINERALS: PHOSPHATIC SAND-30%
PHOSPHATIC GRAVEL-10%
OTHER FEATURES: WEATHERED, SPECKLED, CALCAREOUS

316.5- 321.5 SANDSTONE; YELLOWISH GRAY TO LIGHT OLIVE GRAY
05% POROSITY: LOW PERMEABILITY, INTERGRANULAR
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO MEDIUM
MEDIUM SPHERICITY; MODERATE INDURATION
CEMENT TYPE(S): CLAY MATRIX
SEDIMENTARY STRUCTURES: NODULAR, MOTTLED
ACCESSORY MINERALS: PHOSPHATIC SAND-35%
PHOSPHATIC GRAVEL-05%, CLAY-15%
OTHER FEATURES: SPECKLED

321.5- 323.5 SANDSTONE; YELLOWISH GRAY TO LIGHT OLIVE GRAY
05% POROSITY: LOW PERMEABILITY, INTERGRANULAR
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO MEDIUM
MEDIUM SPHERICITY; MODERATE INDURATION
CEMENT TYPE(S): CLAY MATRIX, CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: BANDED
ACCESSORY MINERALS: PHOSPHATIC SAND-35%
PHOSPHATIC GRAVEL-10%, CLAY-10%
OTHER FEATURES: SPECKLED, CALCAREOUS

323.5- 329 SANDSTONE; LIGHT OLIVE GRAY TO OLIVE GRAY
02% POROSITY: LOW PERMEABILITY
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO MEDIUM
MEDIUM SPHERICITY; MODERATE INDURATION
CEMENT TYPE(S): CLAY MATRIX
SEDIMENTARY STRUCTURES: MOTTLED
ACCESSORY MINERALS: PHOSPHATIC SAND-25%
PHOSPHATIC GRAVEL-20%, CLAY-15%

329 - 334 SANDSTONE; LIGHT OLIVE GRAY TO LIGHT OLIVE GRAY
03% POROSITY: LOW PERMEABILITY, INTERGRANULAR
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO MEDIUM
MEDIUM SPHERICITY; MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, CLAY MATRIX
SEDIMENTARY STRUCTURES: NODULAR, MOTTLED
ACCESSORY MINERALS: PHOSPHATIC SAND-35%
PHOSPHATIC GRAVEL-05%, CALCILUTITE-15%

OTHER FEATURES: CALCAREOUS

334 - 335 SANDSTONE; YELLOWISH GRAY TO LIGHT OLIVE
05% POROSITY: LOW PERMEABILITY, INTERGRANULAR, FRACTURE
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO MEDIUM
MEDIUM SPHERICITY; MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, CLAY MATRIX
SEDIMENTARY STRUCTURES: MOTTLED, NODULAR
ACCESSORY MINERALS: PHOSPHATIC SAND-35%
PHOSPHATIC GRAVEL-05%, CALCARENITE-08%
OTHER FEATURES: FOSSILIFEROUS, CALCAREOUS
FOSSILS: FOSSIL FRAGMENTS

335 - 337.5 SANDSTONE; LIGHT OLIVE TO GREENISH GRAY
03% POROSITY: LOW PERMEABILITY, INTERGRANULAR
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO MEDIUM
MEDIUM SPHERICITY; MODERATE INDURATION
CEMENT TYPE(S): CLAY MATRIX, CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: NODULAR
ACCESSORY MINERALS: PHOSPHATIC SAND-20%
PHOSPHATIC GRAVEL-01%
OTHER FEATURES: FOSSILIFEROUS
FOSSILS: FOSSIL FRAGMENTS
INCREASING PHOSPHATIC SAND WITH DEPTH

337.5- 338.5 SANDSTONE; LIGHT OLIVE GRAY TO LIGHT OLIVE GRAY
05% POROSITY: LOW PERMEABILITY, INTERGRANULAR
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO MEDIUM
MEDIUM SPHERICITY; MODERATE INDURATION
CEMENT TYPE(S): CLAY MATRIX, CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: NODULAR, MOTTLED, BANDED
ACCESSORY MINERALS: PHOSPHATIC SAND-50%
PHOSPHATIC GRAVEL-01%
OTHER FEATURES: FOSSILIFEROUS
FOSSILS: FOSSIL FRAGMENTS

338.5- 343 SANDSTONE; LIGHT OLIVE GRAY TO GREENISH GRAY
02% POROSITY: LOW PERMEABILITY
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO MEDIUM
MEDIUM SPHERICITY; MODERATE INDURATION
CEMENT TYPE(S): CLAY MATRIX, CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: NODULAR, STREAKED
ACCESSORY MINERALS: PHOSPHATIC SAND-15%
PHOSPHATIC GRAVEL-01%

343 - 345.5 SANDSTONE; YELLOWISH GRAY TO PINKISH GRAY
03% POROSITY: LOW PERMEABILITY
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO MEDIUM
MEDIUM SPHERICITY; MODERATE INDURATION
CEMENT TYPE(S): CLAY MATRIX, CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: NODULAR
ACCESSORY MINERALS: PHOSPHATIC SAND-10%
PHOSPHATIC GRAVEL-02%
OTHER FEATURES: FOSSILIFEROUS
FOSSILS: FOSSIL FRAGMENTS, MOLLUSKS

345.5- 348 SANDSTONE; YELLOWISH GRAY TO LIGHT OLIVE GRAY
02% POROSITY: LOW PERMEABILITY
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO MEDIUM
MEDIUM SPHERICITY; GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, CLAY MATRIX
SEDIMENTARY STRUCTURES: NODULAR
ACCESSORY MINERALS: PHOSPHATIC SAND-10%

PHOSPHATIC GRAVEL-01%, CLAY-25%
OTHER FEATURES: FOSSILIFEROUS, CALCAREOUS
FOSSILS: FOSSIL FRAGMENTS, MOLLUSKS

348 - 349 SANDSTONE; YELLOWISH GRAY TO GREENISH GRAY
02% POROSITY: LOW PERMEABILITY
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO FINE
MEDIUM SPHERICITY; MODERATE INDURATION
CEMENT TYPE(S): CLAY MATRIX
SEDIMENTARY STRUCTURES: MOTTLED
ACCESSORY MINERALS: PHOSPHATIC SAND-15%

349 - 351 SANDSTONE; LIGHT OLIVE GRAY TO PINKISH GRAY
03% POROSITY: LOW PERMEABILITY
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO MEDIUM
MEDIUM SPHERICITY; POOR INDURATION
CEMENT TYPE(S): CLAY MATRIX
SEDIMENTARY STRUCTURES: STREAKED
ACCESSORY MINERALS: PHOSPHATIC SAND-20%
PHOSPHATIC GRAVEL-01%
OTHER FEATURES: FOSSILIFEROUS
FOSSILS: FOSSIL FRAGMENTS

351 - 356 SANDSTONE; YELLOWISH GRAY TO LIGHT OLIVE GRAY
03% POROSITY: LOW PERMEABILITY
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO MEDIUM
MEDIUM SPHERICITY; MODERATE INDURATION
CEMENT TYPE(S): CLAY MATRIX, CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-25%
INCREASING PHOSPHATIC SAND WITH DEPTH - 25-50% RANGE

356 - 358 DOLOSTONE; PINKISH GRAY TO YELLOWISH GRAY
20% POROSITY: MOLDIC, VUGULAR, POSSIBLY HIGH PERMEABILITY
10-50% ALTERED; ANHEDRAL
GRAIN SIZE: CRYPTOCRYSTALLINE
RANGE: VERY FINE TO CRYPTOCRYSTALLINE; GOOD INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT, CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: BEDDED
ACCESSORY MINERALS: PHOSPHATIC SAND-10%
PHOSPHATIC GRAVEL-02%, QUARTZ-01%, LIMESTONE-30%
OTHER FEATURES: MEDIUM RECRYSTALLIZATION, FOSSILIFEROUS
WEATHERED, CALCAREOUS
FOSSILS: FOSSIL FRAGMENTS, FOSSIL MOLDS, MOLLUSKS, CORAL
CALCITE CRYSTAL

358 - 362 DOLOSTONE; PINKISH GRAY TO YELLOWISH GRAY
12% POROSITY: VUGULAR, POSSIBLY HIGH PERMEABILITY
10-50% ALTERED; ANHEDRAL
GRAIN SIZE: CRYPTOCRYSTALLINE
RANGE: VERY FINE TO CRYPTOCRYSTALLINE; MODERATE INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT, CALCILUTITE MATRIX
CLAY MATRIX
SEDIMENTARY STRUCTURES: BEDDED
ACCESSORY MINERALS: PHOSPHATIC SAND-10%
PHOSPHATIC GRAVEL-02%, QUARTZ-01%, LIMESTONE-25%
OTHER FEATURES: MEDIUM RECRYSTALLIZATION, FOSSILIFEROUS
WEATHERED, CALCAREOUS
FOSSILS: FOSSIL FRAGMENTS, FOSSIL MOLDS, MOLLUSKS
LESS FOSSILIFEROUS THAN 356-358' BUT HIGHLY WEATHERED

362 - 369.5 CALCARENITE; WHITE TO PINKISH GRAY
08% POROSITY: PIN POINT VUGS, VUGULAR
GRAIN TYPE: CALCILUTITE, CRYSTALS

20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: CRYPTOCRYSTALLINE
RANGE: VERY FINE TO CRYPTOCRYSTALLINE; GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: STREAKED
ACCESSORY MINERALS: CALCITE-05%, PHOSPHATIC SAND-01%
PHOSPHATIC GRAVEL-01%
OTHER FEATURES: MEDIUM RECRYSTALLIZATION, FOSSILIFEROUS
FOSSILS: FOSSIL FRAGMENTS, FOSSIL MOLDS, MOLLUSKS
VUGS IN LOWER PORTION FILLED WITH RECRYSTALLIZED CALCITE
BLOTCHY NODES CLAY-CALCILUTITE

369.5- 379 CALCARENITE; WHITE TO PINKISH GRAY
04% POROSITY: PIN POINT VUGS
GRAIN TYPE: CALCILUTITE, CRYSTALS, INTRACLASTS
15% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: CRYPTOCRYSTALLINE
RANGE: VERY FINE TO CRYPTOCRYSTALLINE; MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: BEDDED
ACCESSORY MINERALS: CALCITE-05%, PHOSPHATIC SAND-05%
PHOSPHATIC GRAVEL-05%
OTHER FEATURES: LOW RECRYSTALLIZATION, FOSSILIFEROUS
WEATHERED
FOSSILS: FOSSIL FRAGMENTS, FOSSIL MOLDS, MOLLUSKS
SIMILAR TO ABOVE BUT WEATHERED WITH MORE PHOSPHATIC
SAND-GRAVEL

379 - 389 CALCARENITE; WHITE TO VERY LIGHT GRAY
15% POROSITY: PIN POINT VUGS, VUGULAR, FRACTURE
GRAIN TYPE: CRYSTALS
GRAIN SIZE: VERY FINE; GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: BEDDED
ACCESSORY MINERALS: QUARTZ SAND-05%, PHOSPHATIC SAND-05%
PHOSPHATIC GRAVEL-03%
FOSSILS: BENTHIC FORAMINIFERA
SOME VUGS AND MOLDS. 50-100% RECRYSTALLIZED CALCITE AS
WELL AS SAND-SIZE CALCITE GRAINS WITHIN MATRIX. NOCATEE
TOP. SORITES AT 382FT.

389 - 394 DOLOSTONE; YELLOWISH GRAY TO PINKISH GRAY
08% POROSITY: PIN POINT VUGS, VUGULAR; 10-50% ALTERED
SUBHEDRAL
GRAIN SIZE: CRYPTOCRYSTALLINE
RANGE: VERY FINE TO CRYPTOCRYSTALLINE; GOOD INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT, CALCILUTITE MATRIX
ACCESSORY MINERALS: QUARTZ SAND-30%, PHOSPHATIC SAND-05%
PHOSPHATIC GRAVEL-01%, CALCITE-25%
OTHER FEATURES: HIGH RECRYSTALLIZATION, WEATHERED
FOSSILS: FOSSIL FRAGMENTS, FOSSIL MOLDS, MOLLUSKS

394 - 395 SAND; LIGHT OLIVE GRAY TO OLIVE GRAY
35% POROSITY: INTERGRANULAR
GRAIN SIZE: VERY FINE; RANGE: FINE TO VERY FINE
MEDIUM SPHERICITY; POOR INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT, CLAY MATRIX
SEDIMENTARY STRUCTURES: BEDDED, BANDED
ACCESSORY MINERALS: PHOSPHATIC SAND-10%
PHOSPHATIC GRAVEL-02%
OTHER FEATURES: WEATHERED

395 - 397.5 SAND; LIGHT GRAY TO LIGHT OLIVE GRAY

10% POROSITY: INTERGRANULAR, LOW PERMEABILITY
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO FINE
MEDIUM SPHERICITY; MODERATE INDURATION
CEMENT TYPE(S): CLAY MATRIX
SEDIMENTARY STRUCTURES: BEDDED, NODULAR, BANDED
ACCESSORY MINERALS: PHOSPHATIC SAND-15%
PHOSPHATIC GRAVEL-01%, CLAY-20%
OTHER FEATURES: WEATHERED, GRANULAR
GREEN CLAY NODULES AND BANDS.

397.5- 400 SAND; OLIVE GRAY TO DARK GREENISH GRAY
08% POROSITY: LOW PERMEABILITY, INTERGRANULAR
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO FINE
MEDIUM SPHERICITY; POOR INDURATION
CEMENT TYPE(S): CLAY MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-05%
PHOSPHATIC GRAVEL-01%
OTHER FEATURES: GRANULAR

400 - 407 CLAY; LIGHT OLIVE GRAY
03% POROSITY: LOW PERMEABILITY; POOR INDURATION
CEMENT TYPE(S): CLAY MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-10%
PHOSPHATIC GRAVEL-01%, QUARTZ SAND-25%
OTHER FEATURES: GRANULAR

407 - 414.5 CLAY; GREENISH GRAY TO GREENISH GRAY
03% POROSITY: LOW PERMEABILITY; POOR INDURATION
CEMENT TYPE(S): CLAY MATRIX
SEDIMENTARY STRUCTURES: MOTTLED, NODULAR
ACCESSORY MINERALS: PHOSPHATIC SAND-20%
PHOSPHATIC GRAVEL-01%, QUARTZ SAND-20%

414.5- 419 CLAY; OLIVE GRAY TO DARK GREENISH GRAY
03% POROSITY: LOW PERMEABILITY; POOR INDURATION
CEMENT TYPE(S): CLAY MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-25%
PHOSPHATIC GRAVEL-01%, QUARTZ SAND-20%

419 - 434 CLAY; OLIVE GRAY TO GREENISH BLACK
02% POROSITY: LOW PERMEABILITY; MODERATE INDURATION
CEMENT TYPE(S): CLAY MATRIX
OTHER FEATURES: PLASTIC, GREASY
GREENISH-BLACK CLAY GREASY FEEL.

434 - 441 CLAY; GRAYISH OLIVE TO OLIVE GRAY
02% POROSITY: LOW PERMEABILITY; POOR INDURATION
CEMENT TYPE(S): CLAY MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-05%, QUARTZ SAND-02%
OTHER FEATURES: GRANULAR

441 - 449 SAND; LIGHT OLIVE GRAY TO OLIVE GRAY
04% POROSITY: LOW PERMEABILITY
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO FINE
MEDIUM SPHERICITY; POOR INDURATION
CEMENT TYPE(S): CLAY MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-05%, CLAY-15%
OTHER FEATURES: GRANULAR

449 - 451.5 SAND; LIGHT OLIVE GRAY
03% POROSITY: LOW PERMEABILITY, INTERGRANULAR
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO FINE
MEDIUM SPHERICITY; POOR INDURATION

CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-05%
PHOSPHATIC GRAVEL-01%, CALCILUTITE-20%
OTHER FEATURES: CALCAREOUS, GRANULAR, WEATHERED
FOSSILS: MOLLUSKS

451.5- 455 SAND; LIGHT OLIVE GRAY
03% POROSITY: LOW PERMEABILITY, INTERGRANULAR
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO FINE
MEDIUM SPHERICITY; MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: BEDDED
ACCESSORY MINERALS: PHOSPHATIC SAND-05%, CALCITE-05%
CALCILUTITE-20%
OTHER FEATURES: LOW RECRYSTALLIZATION, CALCAREOUS
FOSSILS: MOLLUSKS

455 - 459 SAND; LIGHT OLIVE GRAY
03% POROSITY: LOW PERMEABILITY, INTERGRANULAR
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO FINE
MEDIUM SPHERICITY; POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-05%, CALCILUTITE-30%
OTHER FEATURES: CALCAREOUS, GRANULAR, WEATHERED
FOSSILS: MOLLUSKS
LIMESTONE STRINGER BOTTOM OF RUN.

459 - 461 SAND; OLIVE GRAY
04% POROSITY: LOW PERMEABILITY
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO FINE
MEDIUM SPHERICITY; POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, CLAY MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-05%, CALCILUTITE-10%
OTHER FEATURES: GRANULAR

461 - 462 SAND; LIGHT GRAY TO LIGHT OLIVE GRAY
04% POROSITY: LOW PERMEABILITY, VUGULAR
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO FINE
MEDIUM SPHERICITY; GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-05%, CALCILUTITE-15%
OTHER FEATURES: CALCAREOUS
FOSSILS: FOSSIL FRAGMENTS, FOSSIL MOLDS, MOLLUSKS

462 - 463 SAND; OLIVE GRAY TO DARK GREENISH GRAY
02% POROSITY: LOW PERMEABILITY
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO FINE
MEDIUM SPHERICITY; POOR INDURATION
CEMENT TYPE(S): CLAY MATRIX, CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-03%, CALCILUTITE-20%
OTHER FEATURES: GRANULAR, CALCAREOUS

463 - 464 CALCARENITE; YELLOWISH GRAY TO LIGHT OLIVE GRAY
08% POROSITY: INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: CALCILUTITE, INTRACLASTS
30% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: LITHOGRAPHIC; RANGE: VERY FINE TO LITHOGRAPHIC
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MOTTLED
ACCESSORY MINERALS: PHOSPHATIC SAND-03%, QUARTZ SAND-10%
OTHER FEATURES: GRANULAR
FOSSILS: MOLLUSKS, CORAL, FOSSIL MOLDS

SUWANNEE TOP.

464 - 466 CALCARENITE; YELLOWISH GRAY TO VERY LIGHT ORANGE
08% POROSITY: INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: CALCILUTITE, INTRACLASTS
20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: LITHOGRAPHIC; RANGE: VERY FINE TO LITHOGRAPHIC
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: FISSILE
ACCESSORY MINERALS: PHOSPHATIC SAND-05%, QUARTZ SAND-05%
FOSSILS: MOLLUSKS, CORAL, FOSSIL MOLDS, FOSSIL FRAGMENTS
ECHINOID
GRADES FROM MODERATE INDURATION TO FISSILE.

466 - 469.2 CALCILUTITE; YELLOWISH GRAY TO VERY LIGHT ORANGE
02% POROSITY: LOW PERMEABILITY
GRAIN TYPE: CALCILUTITE; 20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: LITHOGRAPHIC; RANGE: VERY FINE TO LITHOGRAPHIC
GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-01%

469.2- 474 CLAY; YELLOWISH GRAY TO VERY LIGHT ORANGE
03% POROSITY: LOW PERMEABILITY; POOR INDURATION
CEMENT TYPE(S): CLAY MATRIX, CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: PHOSPHATIC SAND-01%, QUARTZ SAND-01%
OTHER FEATURES: CALCAREOUS, GRANULAR

474 - 475.5 CALCARENITE; YELLOWISH GRAY TO VERY LIGHT ORANGE
04% POROSITY: INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: CALCILUTITE; 20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: LITHOGRAPHIC; RANGE: VERY FINE TO LITHOGRAPHIC
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-02%

475.5- 476 CALCILUTITE; YELLOWISH GRAY TO VERY LIGHT ORANGE
02% POROSITY: LOW PERMEABILITY
GRAIN TYPE: CALCILUTITE; 20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: LITHOGRAPHIC; RANGE: VERY FINE TO LITHOGRAPHIC
GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-01%
FOSSILS: FOSSIL MOLDS

476 - 477.5 CLAY; YELLOWISH GRAY TO LIGHT OLIVE GRAY
02% POROSITY: LOW PERMEABILITY; POOR INDURATION
CEMENT TYPE(S): CLAY MATRIX, CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: INTERBEDDED
ACCESSORY MINERALS: PHOSPHATIC SAND-05%
OTHER FEATURES: GRANULAR

477.5- 478 CALCILUTITE; YELLOWISH GRAY
03% POROSITY: VUGULAR
GRAIN TYPE: CALCILUTITE; 20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: LITHOGRAPHIC; RANGE: VERY FINE TO LITHOGRAPHIC
GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
FOSSILS: FOSSIL FRAGMENTS, FOSSIL MOLDS, MOLLUSKS

478 - 478.8 CALCARENITE; YELLOWISH GRAY TO VERY LIGHT ORANGE

03% POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE; 20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: LITHOGRAPHIC; RANGE: VERY FINE TO LITHOGRAPHIC
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND- %
OTHER FEATURES: WEATHERED, FOSSILIFEROUS
FOSSILS: FOSSIL FRAGMENTS, FOSSIL MOLDS, MOLLUSKS
CRUSTACEA

478.8- 479 CALCILUTITE; YELLOWISH GRAY
02% POROSITY: LOW PERMEABILITY
GRAIN TYPE: CALCILUTITE; 20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: LITHOGRAPHIC; RANGE: VERY FINE TO LITHOGRAPHIC
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
FOSSILS: FOSSIL FRAGMENTS, FOSSIL MOLDS, MOLLUSKS
OCALA TOP.

479 - 484 CALCARENITE; YELLOWISH GRAY
03% POROSITY: INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: CALCILUTITE; 25% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: LITHOGRAPHIC; RANGE: VERY FINE TO LITHOGRAPHIC
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: PHOSPHATIC GRAVEL- %, PYRITE- %
FOSSILS: MOLLUSKS

484 - 487 CALCARENITE; YELLOWISH GRAY
04% POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE; 25% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: LITHOGRAPHIC; RANGE: VERY FINE TO LITHOGRAPHIC
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: PHOSPHATIC SAND-01%
OTHER FEATURES: WEATHERED
FOSSILS: DIATOMS

487 - 489 CALCARENITE; YELLOWISH GRAY
04% POROSITY: INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: CALCILUTITE; 30% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: LITHOGRAPHIC; RANGE: VERY FINE TO LITHOGRAPHIC
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
FOSSILS: MOLLUSKS, FOSSIL MOLDS

489 - 496 CALCILUTITE; YELLOWISH GRAY
25% POROSITY: MOLDIC, POSSIBLY HIGH PERMEABILITY
35% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: LITHOGRAPHIC; RANGE: VERY FINE TO LITHOGRAPHIC
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: BEDDED
ACCESSORY MINERALS: PHOSPHATIC GRAVEL-05%
PHOSPHATIC SAND-01%
OTHER FEATURES: WEATHERED, PLATY
FOSSILS: MOLLUSKS, BENTHIC FORAMINIFERA, FOSSIL FRAGMENTS
FOSSIL MOLDS

496 - 512.5 CALCARENITE; VERY LIGHT ORANGE
02% POROSITY: LOW PERMEABILITY, PIN POINT VUGS

GRAIN TYPE: INTRACLASTS, CALCILUTITE
30% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: LITHOGRAPHIC TO VERY FINE
MODERATE INDURATION
CEMENT TYPE(S): CLAY MATRIX, CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: CALCITE- %
OTHER FEATURES: CHALKY
FOSSILS: MOLLUSKS, BENTHIC FORAMINIFERA

512.5- 514 CALCARENITE; VERY LIGHT ORANGE
04% POROSITY: LOW PERMEABILITY, PIN POINT VUGS
GRAIN TYPE: INTRACLASTS, CALCILUTITE
30% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: LITHOGRAPHIC TO VERY FINE
MODERATE INDURATION
CEMENT TYPE(S): CLAY MATRIX, CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: CALCITE- %, DOLOMITE-05%
OTHER FEATURES: DOLOMITIC
FOSSILS: MOLLUSKS, BENTHIC FORAMINIFERA
SIMILAR TO ABOVE EXCEPT CUMBLY W/ GRAY MATERIAL.

514 - 514.7 CALCARENITE; VERY LIGHT ORANGE
02% POROSITY: LOW PERMEABILITY, NOT OBSERVED
GRAIN TYPE: INTRACLASTS, CALCILUTITE
20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: LITHOGRAPHIC TO VERY FINE
MODERATE INDURATION
CEMENT TYPE(S): CLAY MATRIX, CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-01%

514.7- 515.5 CALCARENITE; VERY LIGHT ORANGE TO YELLOWISH GRAY
04% POROSITY: LOW PERMEABILITY, PIN POINT VUGS
GRAIN TYPE: INTRACLASTS, CALCILUTITE
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CLAY MATRIX, CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-15%, CALCITE-01%
OTHER FEATURES: DOLOMITIC

515.5- 516.5 CALCARENITE; VERY LIGHT ORANGE
08% POROSITY: INTERGRANULAR, PIN POINT VUGS, VUGULAR
GRAIN TYPE: INTRACLASTS, CALCILUTITE
50% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CLAY MATRIX, CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE, BIOTURBATED
ACCESSORY MINERALS: DOLOMITE-05%, CALCITE-01%
OTHER FEATURES: DOLOMITIC
FOSSILS: MOLLUSKS, BENTHIC FORAMINIFERA, SPICULES

516.5- 517.2 CALCARENITE; VERY LIGHT ORANGE
12% POROSITY: INTERGRANULAR, MOLDIC
GRAIN TYPE: INTRACLASTS, CALCILUTITE
50% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CLAY MATRIX, CALCILUTITE MATRIX

SEDIMENTARY STRUCTURES: MASSIVE, BIOTURBATED
ACCESSORY MINERALS: DOLOMITE-05%, CALCITE-01%
OTHER FEATURES: DOLOMITIC
FOSSILS: MOLLUSKS, BENTHIC FORAMINIFERA

517.2- 518.4 CALCARENITE; VERY LIGHT ORANGE
04% POROSITY: INTERGRANULAR, PIN POINT VUGS, MOLDIC
GRAIN TYPE: INTRACLASTS, CALCILUTITE
30% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CLAY MATRIX, CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE, BIOTURBATED
ACCESSORY MINERALS: DOLOMITE-03%, CALCITE-01%
OTHER FEATURES: DOLOMITIC
FOSSILS: MOLLUSKS, BENTHIC FORAMINIFERA

518.4- 540.5 CALCARENITE; VERY LIGHT ORANGE
04% POROSITY: INTERGRANULAR, NOT OBSERVED, PIN POINT VUGS
GRAIN TYPE: INTRACLASTS, CALCILUTITE
25% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, CLAY MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-01%, CALCITE-01%
FOSSILS: MOLLUSKS, BENTHIC FORAMINIFERA

540.5- 549 CALCARENITE; VERY LIGHT ORANGE
08% POROSITY: INTERGRANULAR, PIN POINT VUGS, MOLDIC
GRAIN TYPE: INTRACLASTS, CALCILUTITE
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, CLAY MATRIX
SEDIMENTARY STRUCTURES: MASSIVE, BIOTURBATED
ACCESSORY MINERALS: DOLOMITE-02%, CALCITE-01%
OTHER FEATURES: DOLOMITIC
FOSSILS: MOLLUSKS, BENTHIC FORAMINIFERA
LEPIDOCYCLINA.

549 - 555.6 CALCARENITE; VERY LIGHT ORANGE
04% POROSITY: INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: INTRACLASTS, CALCILUTITE
20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, CLAY MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE- %, CALCITE-02%
FOSSILS: MOLLUSKS, BENTHIC FORAMINIFERA

555.6- 589.6 CALCARENITE; VERY LIGHT ORANGE
06% POROSITY: INTERGRANULAR, PIN POINT VUGS, MOLDIC
GRAIN TYPE: INTRACLASTS, CALCILUTITE
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, CLAY MATRIX
SEDIMENTARY STRUCTURES: MASSIVE, BIOTURBATED
ACCESSORY MINERALS: DOLOMITE-02%, CALCITE-03%
OTHER FEATURES: DOLOMITIC
FOSSILS: MOLLUSKS, BENTHIC FORAMINIFERA, FOSSIL FRAGMENTS

LEPIDOCYCLINA AND NUMMULITES.

589.6- 594 CALCARENITE; VERY LIGHT ORANGE
04% POROSITY: INTERGRANULAR, NOT OBSERVED
GRAIN TYPE: INTRACLASTS, CALCILUTITE
20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: LITHOGRAPHIC TO FINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, CLAY MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
OTHER FEATURES: WEATHERED
FOSSILS: BENTHIC FORAMINIFERA
LEPIDOCYCLINA.

594 - 599.9 CALCARENITE; VERY LIGHT ORANGE
06% POROSITY: INTERGRANULAR, PIN POINT VUGS, MOLDIC
GRAIN TYPE: INTRACLASTS, CALCILUTITE
30% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, CLAY MATRIX
SEDIMENTARY STRUCTURES: MASSIVE, BIOTURBATED
ACCESSORY MINERALS: DOLOMITE-01%, CALCITE-03%
FOSSILS: BENTHIC FORAMINIFERA
LEPIDOCYCLINA AND NUMMULITES.

599.9- 604.3 CALCARENITE; VERY LIGHT ORANGE
08% POROSITY: INTERGRANULAR, PIN POINT VUGS, MOLDIC
GRAIN TYPE: INTRACLASTS, CALCILUTITE
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, CLAY MATRIX
SEDIMENTARY STRUCTURES: MASSIVE, BIOTURBATED
ACCESSORY MINERALS: DOLOMITE-02%, CALCITE-03%
OTHER FEATURES: FOSSILIFEROUS
FOSSILS: BENTHIC FORAMINIFERA
LEPIDOCYCLINA AND NUMMULITES.

604.3- 607.7 CALCARENITE; VERY LIGHT ORANGE
04% POROSITY: INTERGRANULAR, NOT OBSERVED
GRAIN TYPE: INTRACLASTS, CALCILUTITE
30% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: LITHOGRAPHIC TO FINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, CLAY MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
FOSSILS: BENTHIC FORAMINIFERA

607.7- 615.3 CALCARENITE; VERY LIGHT ORANGE
10% POROSITY: INTERGRANULAR, MOLDIC, PIN POINT VUGS
GRAIN TYPE: INTRACLASTS, CALCILUTITE, BIOGENIC
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, CLAY MATRIX
SEDIMENTARY STRUCTURES: MASSIVE, BIOTURBATED
ACCESSORY MINERALS: DOLOMITE-01%, CALCITE-02%
OTHER FEATURES: FOSSILIFEROUS
FOSSILS: BENTHIC FORAMINIFERA

615.3- 618.6 CALCARENITE; VERY LIGHT ORANGE
04% POROSITY: INTERGRANULAR, NOT OBSERVED

GRAIN TYPE: INTRACLASTS, CALCILUTITE
30% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: LITHOGRAPHIC TO FINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, CLAY MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
FOSSILS: BENTHIC FORAMINIFERA

618.6- 646.9 CALCARENITE; VERY LIGHT ORANGE
08% POROSITY: INTERGRANULAR, MOLDIC, PIN POINT VUGS
GRAIN TYPE: INTRACLASTS, CALCILUTITE, BIOGENIC
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE, BIOTURBATED
ACCESSORY MINERALS: DOLOMITE-05%, CALCITE-02%
OTHER FEATURES: FOSSILIFEROUS
FOSSILS: BENTHIC FORAMINIFERA

646.9- 648.2 CALCARENITE; VERY LIGHT ORANGE TO YELLOWISH GRAY
04% POROSITY: INTERGRANULAR, NOT OBSERVED
GRAIN TYPE: INTRACLASTS, CALCILUTITE
30% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: LITHOGRAPHIC TO FINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: CALCITE-02%
FOSSILS: BENTHIC FORAMINIFERA

648.2- 664 CALCARENITE; VERY LIGHT ORANGE
07% POROSITY: INTERGRANULAR, MOLDIC, PIN POINT VUGS
GRAIN TYPE: INTRACLASTS, CALCILUTITE, BIOGENIC
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE, BIOTURBATED
ACCESSORY MINERALS: DOLOMITE-02%
FOSSILS: BENTHIC FORAMINIFERA
NO CORE SAMPLE 664-669. ONLY BAG OF CALCILUTITE MATERIAL.

664 - 670 CALCILUTITE; VERY LIGHT ORANGE
03% POROSITY: NOT OBSERVED, INTERGRANULAR
GRAIN TYPE: CALCILUTITE; 10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: LITHOGRAPHIC; RANGE: LITHOGRAPHIC TO VERY FINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE

670 - 673 CALCARENITE; VERY LIGHT ORANGE
05% POROSITY: INTERGRANULAR, NOT OBSERVED
GRAIN TYPE: CALCILUTITE, INTRACLASTS
25% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: LITHOGRAPHIC TO FINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE, BIOTURBATED
ACCESSORY MINERALS: DOLOMITE-02%, LIMESTONE-02%
FOSSILS: BENTHIC FORAMINIFERA

673 - 679.2 CALCARENITE; VERY LIGHT ORANGE

08% POROSITY: INTERGRANULAR, NOT OBSERVED
GRAIN TYPE: INTRACLASTS, CALCILUTITE
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE, BIOTURBATED
ACCESSORY MINERALS: DOLOMITE-02%, CALCITE-01%
OTHER FEATURES: FOSSILIFEROUS
FOSSILS: BENTHIC FORAMINIFERA

679.2- 680 CALCARENITE; VERY LIGHT ORANGE
05% POROSITY: NOT OBSERVED, INTERGRANULAR
GRAIN TYPE: CALCILUTITE, INTRACLASTS
30% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
UNCONSOLIDATED
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE, BIOTURBATED
ACCESSORY MINERALS: DOLOMITE-02%, CALCITE-01%
OTHER FEATURES: FOSSILIFEROUS
FOSSILS: BENTHIC FORAMINIFERA

680 - 684.6 CALCARENITE; VERY LIGHT ORANGE
08% POROSITY: INTERGRANULAR, NOT OBSERVED
GRAIN TYPE: INTRACLASTS, CALCILUTITE
50% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE, BIOTURBATED
ACCESSORY MINERALS: DOLOMITE-04%, CALCITE-02%
OTHER FEATURES: FOSSILIFEROUS
FOSSILS: BENTHIC FORAMINIFERA

684.6- 685.8 CALCARENITE; VERY LIGHT ORANGE
04% POROSITY: NOT OBSERVED
GRAIN TYPE: CALCILUTITE, INTRACLASTS
20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: LITHOGRAPHIC TO FINE
UNCONSOLIDATED
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-02%
FOSSILS: BENTHIC FORAMINIFERA

685.8- 695.8 CALCARENITE; VERY LIGHT ORANGE
08% POROSITY: INTERGRANULAR, NOT OBSERVED
GRAIN TYPE: INTRACLASTS, CALCILUTITE
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE, BIOTURBATED
ACCESSORY MINERALS: DOLOMITE-05%, CALCITE-02%
OTHER FEATURES: FOSSILIFEROUS
FOSSILS: BENTHIC FORAMINIFERA

695.8- 698.1 CALCILUTITE; VERY LIGHT ORANGE
03% POROSITY: NOT OBSERVED
GRAIN TYPE: CALCILUTITE, INTRACLASTS
25% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: LITHOGRAPHIC TO VERY FINE

UNCONSOLIDATED
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE

698.1- 701.4 CALCARENITE; VERY LIGHT ORANGE
08% POROSITY: INTERGRANULAR, NOT OBSERVED
GRAIN TYPE: INTRACLASTS, CALCILUTITE
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE, BIOTURBATED
ACCESSORY MINERALS: DOLOMITE-03%, CALCITE-02%
OTHER FEATURES: FOSSILIFEROUS
FOSSILS: BENTHIC FORAMINIFERA

701.4- 702.1 CALCILUTITE; VERY LIGHT ORANGE
03% POROSITY: NOT OBSERVED
GRAIN TYPE: CALCILUTITE, INTRACLASTS
25% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: LITHOGRAPHIC TO VERY FINE
UNCONSOLIDATED
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE

702.1- 704.7 CALCARENITE; VERY LIGHT ORANGE
08% POROSITY: INTERGRANULAR, NOT OBSERVED
GRAIN TYPE: INTRACLASTS, CALCILUTITE
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE, BIOTURBATED
ACCESSORY MINERALS: DOLOMITE-03%, CALCITE-01%
OTHER FEATURES: FOSSILIFEROUS
FOSSILS: BENTHIC FORAMINIFERA

704.7- 705.4 CALCARENITE; VERY LIGHT ORANGE
08% POROSITY: INTERGRANULAR, NOT OBSERVED
GRAIN TYPE: INTRACLASTS, CALCILUTITE
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
UNCONSOLIDATED
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE, BIOTURBATED
ACCESSORY MINERALS: DOLOMITE-03%, CALCITE- %
OTHER FEATURES: FOSSILIFEROUS
FOSSILS: BENTHIC FORAMINIFERA

705.4- 709.4 CALCARENITE; VERY LIGHT ORANGE
08% POROSITY: INTERGRANULAR, NOT OBSERVED
GRAIN TYPE: INTRACLASTS, CALCILUTITE
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE, BIOTURBATED
ACCESSORY MINERALS: DOLOMITE-02%, CALCITE- %
OTHER FEATURES: FOSSILIFEROUS
FOSSILS: BENTHIC FORAMINIFERA

709.4- 714 CALCILUTITE; VERY LIGHT ORANGE
03% POROSITY: NOT OBSERVED

GRAIN TYPE: CALCILUTITE, INTRACLASTS
20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: LITHOGRAPHIC TO FINE
UNCONSOLIDATED
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
OTHER FEATURES: PLASTIC

714 - 715.2 CALCARENITE; VERY LIGHT ORANGE
06% POROSITY: INTERGRANULAR, NOT OBSERVED
GRAIN TYPE: INTRACLASTS, CALCILUTITE
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-02%, CALCITE- %
FOSSILS: BENTHIC FORAMINIFERA

715.2- 718.8 CALCARENITE; VERY LIGHT ORANGE
04% POROSITY: NOT OBSERVED
GRAIN TYPE: CALCILUTITE, INTRACLASTS
25% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: LITHOGRAPHIC TO FINE
UNCONSOLIDATED
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE

718.8- 724.2 CALCARENITE; VERY LIGHT ORANGE
06% POROSITY: INTERGRANULAR, NOT OBSERVED
GRAIN TYPE: INTRACLASTS, CALCILUTITE
30% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE, BIOTURBATED
ACCESSORY MINERALS: DOLOMITE-02%, CALCITE-01%
FOSSILS: BENTHIC FORAMINIFERA

724.2- 727 CALCARENITE; VERY LIGHT ORANGE
04% POROSITY: NOT OBSERVED, INTERGRANULAR
GRAIN TYPE: CALCILUTITE, INTRACLASTS
20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: LITHOGRAPHIC TO FINE
UNCONSOLIDATED
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: CALCITE-01%
OTHER FEATURES: WEATHERED
FOSSILS: BENTHIC FORAMINIFERA

727 - 729 CALCILUTITE; VERY LIGHT ORANGE
03% POROSITY: NOT OBSERVED
GRAIN TYPE: CALCILUTITE, INTRACLASTS
15% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: LITHOGRAPHIC TO VERY FINE
UNCONSOLIDATED
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
OTHER FEATURES: PLASTIC

729 - 729.3 CALCARENITE; VERY LIGHT ORANGE
04% POROSITY: NOT OBSERVED, INTERGRANULAR

GRAIN TYPE: CALCILUTITE, INTRACLASTS
20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: LITHOGRAPHIC TO VERY FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
OTHER FEATURES: CHALKY
FOSSILS: MOLLUSKS, FOSSIL MOLDS

729.3- 732 CALCARENITE; VERY LIGHT ORANGE
04% POROSITY: NOT OBSERVED, INTERGRANULAR
GRAIN TYPE: CALCILUTITE, INTRACLASTS
25% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: LITHOGRAPHIC TO FINE
UNCONSOLIDATED
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
OTHER FEATURES: WEATHERED
FOSSILS: BENTHIC FORAMINIFERA

732 - 734 CALCILUTITE; VERY LIGHT ORANGE
03% POROSITY: NOT OBSERVED
GRAIN TYPE: CALCILUTITE, INTRACLASTS
15% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: LITHOGRAPHIC TO VERY FINE
UNCONSOLIDATED
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
OTHER FEATURES: PLASTIC

734 - 735.5 CALCARENITE; VERY LIGHT ORANGE
08% POROSITY: MOLDIC, INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: INTRACLASTS, CALCILUTITE
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE, BIOTURBATED
ACCESSORY MINERALS: DOLOMITE-01%, CALCITE-01%
OTHER FEATURES: FOSSILIFEROUS
FOSSILS: MOLLUSKS, BENTHIC FORAMINIFERA, FOSSIL MOLDS

735.5- 739 CALCILUTITE; VERY LIGHT ORANGE
03% POROSITY: NOT OBSERVED
GRAIN TYPE: CALCILUTITE, INTRACLASTS
15% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: LITHOGRAPHIC TO VERY FINE
UNCONSOLIDATED
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
OTHER FEATURES: PLASTIC

739 - 739.5 CALCARENITE; VERY LIGHT ORANGE
06% POROSITY: INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: INTRACLASTS, CALCILUTITE
25% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE

739.5- 740.5 CALCARENITE; VERY LIGHT ORANGE
05% POROSITY: INTERGRANULAR, NOT OBSERVED

GRAIN TYPE: CALCILUTITE, INTRACLASTS
20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
UNCONSOLIDATED
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
OTHER FEATURES: WEATHERED

740.5- 744 CALCILUTITE; VERY LIGHT ORANGE
03% POROSITY: NOT OBSERVED
GRAIN TYPE: CALCILUTITE; 15% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: LITHOGRAPHIC TO VERY FINE
UNCONSOLIDATED
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE

744 - 744.3 CALCARENITE; VERY LIGHT ORANGE
04% POROSITY: NOT OBSERVED, PIN POINT VUGS
GRAIN TYPE: CALCILUTITE; 20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: LITHOGRAPHIC TO VERY FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-01%, CALCITE-01%
OTHER FEATURES: CHALKY

744.3- 745.5 CALCARENITE; VERY LIGHT ORANGE
06% POROSITY: NOT OBSERVED, INTERGRANULAR
GRAIN TYPE: CALCILUTITE, INTRACLASTS
25% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: LITHOGRAPHIC TO VERY FINE
UNCONSOLIDATED
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
OTHER FEATURES: WEATHERED

745.5- 749 CALCILUTITE; VERY LIGHT ORANGE
03% POROSITY: NOT OBSERVED
GRAIN TYPE: CALCILUTITE; 10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: LITHOGRAPHIC TO VERY FINE
UNCONSOLIDATED
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
OTHER FEATURES: PLASTIC

749 - 749.5 CALCARENITE; VERY LIGHT ORANGE
04% POROSITY: NOT OBSERVED, PIN POINT VUGS
GRAIN TYPE: CALCILUTITE; 30% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: LITHOGRAPHIC TO VERY FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE

749.5- 750.8 CALCARENITE; VERY LIGHT ORANGE
04% POROSITY: NOT OBSERVED, INTERGRANULAR
GRAIN TYPE: CALCILUTITE; 25% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: LITHOGRAPHIC TO FINE
UNCONSOLIDATED
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
OTHER FEATURES: WEATHERED

750.8- 754 CALCILUTITE; VERY LIGHT ORANGE

03% POROSITY: NOT OBSERVED
GRAIN TYPE: CALCILUTITE; 10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: LITHOGRAPHIC TO VERY FINE
UNCONSOLIDATED
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
OTHER FEATURES: PLASTIC

754 - 754.4 CALCARENITE; VERY LIGHT ORANGE
04% POROSITY: NOT OBSERVED, PIN POINT VUGS
GRAIN TYPE: CALCILUTITE; 30% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE

754.4- 758.2 CALCARENITE; VERY LIGHT ORANGE
04% POROSITY: NOT OBSERVED, INTERGRANULAR
GRAIN TYPE: CALCILUTITE; 30% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: LITHOGRAPHIC TO FINE
UNCONSOLIDATED
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
OTHER FEATURES: WEATHERED

758.2- 758.6 CALCARENITE; VERY LIGHT ORANGE
04% POROSITY: NOT OBSERVED, PIN POINT VUGS
GRAIN TYPE: CALCILUTITE; 30% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: CALCITE-02%, DOLOMITE-01%
FOSSILS: BENTHIC FORAMINIFERA

758.6- 759 CALCARENITE; VERY LIGHT ORANGE
04% POROSITY: NOT OBSERVED, INTERGRANULAR
GRAIN TYPE: CALCILUTITE; 30% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: LITHOGRAPHIC TO FINE
UNCONSOLIDATED
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
OTHER FEATURES: WEATHERED

759 - 759.5 CALCARENITE; YELLOWISH GRAY
04% POROSITY: NOT OBSERVED, PIN POINT VUGS
GRAIN TYPE: CALCILUTITE, INTRACLASTS
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-02%
FOSSILS: BENTHIC FORAMINIFERA

759.5- 760.5 CALCARENITE; VERY LIGHT ORANGE
04% POROSITY: NOT OBSERVED, INTERGRANULAR
GRAIN TYPE: CALCILUTITE, INTRACLASTS
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: LITHOGRAPHIC TO FINE
UNCONSOLIDATED
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE

ACCESSORY MINERALS: DOLOMITE-03%
OTHER FEATURES: WEATHERED
FOSSILS: BENTHIC FORAMINIFERA

760.5- 763.8 CALCILUTITE; VERY LIGHT ORANGE
04% POROSITY: NOT OBSERVED, INTERGRANULAR
GRAIN TYPE: CALCILUTITE, INTRACLASTS
20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: LITHOGRAPHIC TO VERY FINE
UNCONSOLIDATED
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-02%

763.8- 765 CALCILUTITE; YELLOWISH GRAY
06% POROSITY: PIN POINT VUGS, INTERGRANULAR
GRAIN TYPE: CALCILUTITE, INTRACLASTS
25% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-03%, CALCITE-01%
FOSSILS: BENTHIC FORAMINIFERA, FOSSIL MOLDS

765 - 768.8 CALCILUTITE; YELLOWISH GRAY
02% POROSITY: NOT OBSERVED
GRAIN TYPE: CALCILUTITE; 10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: LITHOGRAPHIC; RANGE: LITHOGRAPHIC TO VERY FINE
UNCONSOLIDATED
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-01%

768.8- 769 CALCILUTITE; YELLOWISH GRAY
02% POROSITY: NOT OBSERVED
GRAIN TYPE: CALCILUTITE; 10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: LITHOGRAPHIC; RANGE: LITHOGRAPHIC TO VERY FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-01%

769 - 769.4 CALCARENITE; VERY LIGHT ORANGE
05% POROSITY: MOLDIC, INTERGRANULAR
GRAIN TYPE: CALCILUTITE, INTRACLASTS
20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE, BIOTURBATED
ACCESSORY MINERALS: CALCITE-03%, DOLOMITE-01%
FOSSILS: BENTHIC FORAMINIFERA, MOLLUSKS

769.4- 769.8 CALCILUTITE; YELLOWISH GRAY
03% POROSITY: NOT OBSERVED
GRAIN TYPE: CALCILUTITE; 10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: LITHOGRAPHIC; RANGE: LITHOGRAPHIC TO VERY FINE
UNCONSOLIDATED
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-01%

769.8- 771.5 CALCARENITE; YELLOWISH GRAY
04% POROSITY: NOT OBSERVED, PIN POINT VUGS
GRAIN TYPE: CALCILUTITE; 15% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: LITHOGRAPHIC TO VERY FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-01%
FOSSILS: ECHINOID
TOP OF AVON PARK? BLACK ORGANIC(?)UNIT IN FOSSIL MOLLUSK MOLD.

771.5- 772.3 CALCARENITE; GRAYISH ORANGE
25% POROSITY: MOLDIC, VUGULAR, INTERGRANULAR
GRAIN TYPE: SKELETAL, BIOGENIC, CRYSTALS
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: BIOTURBATED
ACCESSORY MINERALS: CALCITE-05%, DOLOMITE-01%
OTHER FEATURES: MEDIUM RECRYSTALLIZATION, FOSSILIFEROUS
FOSSILS: MOLLUSKS, ECHINOID, CORAL
DALLI.

772.3- 776 CALCARENITE; VERY LIGHT ORANGE TO YELLOWISH GRAY
08% POROSITY: INTERGRANULAR
GRAIN TYPE: INTRACLASTS; 15% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE, MOTTLED
ACCESSORY MINERALS: DOLOMITE-02%
OTHER FEATURES: FROSTED, COQUINA

776 - 778.3 CALCILUTITE; VERY LIGHT ORANGE TO LIGHT GREENISH YELLOW
04% POROSITY: NOT OBSERVED
GRAIN TYPE: CALCILUTITE; 10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: LITHOGRAPHIC; RANGE: LITHOGRAPHIC TO VERY FINE
UNCONSOLIDATED
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-01%

778.3- 790 CALCARENITE; VERY LIGHT ORANGE TO LIGHT OLIVE
15% POROSITY: MOLDIC, VUGULAR, INTERGRANULAR
GRAIN TYPE: CALCILUTITE, INTRACLASTS, BIOGENIC
20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE, BIOTURBATED
ACCESSORY MINERALS: DOLOMITE-02%, CALCITE-04%
OTHER FEATURES: FOSSILIFEROUS, LOW RECRYSTALLIZATION
FOSSILS: MOLLUSKS, ECHINOID, FOSSIL MOLDS
DALLI.

790 - 796 CALCARENITE; YELLOWISH GRAY TO PINKISH GRAY
04% POROSITY: INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: INTRACLASTS, CALCILUTITE
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION

CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-01%, CALCITE-01%
FOSSILS: MOLLUSKS, FOSSIL FRAGMENTS

796 - 799 CLAY; YELLOWISH GRAY
02% POROSITY: LOW PERMEABILITY; UNCONSOLIDATED
CEMENT TYPE(S): CLAY MATRIX, CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND- %
OTHER FEATURES: CALCAREOUS

799 - 801.5 DOLOSTONE; VERY LIGHT ORANGE TO GRAYISH BROWN
04% POROSITY: INTERGRANULAR, PIN POINT VUGS
10-50% ALTERED; ANHEDRAL
GRAIN SIZE: VERY FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT, CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-01%, CALCITE-01%
ANHYDRITE-01%
OTHER FEATURES: FOSSILIFEROUS
FOSSILS: FOSSIL FRAGMENTS, FOSSIL MOLDS, MOLLUSKS

801.5- 804 CALCILUTITE; YELLOWISH GRAY
08% POROSITY: INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: CALCILUTITE; 05% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: LITHOGRAPHIC TO VERY FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND- %, CALCITE-02%
FOSSILS: MOLLUSKS, FOSSIL FRAGMENTS, FOSSIL MOLDS
ECHINOID

804 - 807 DOLOSTONE; VERY LIGHT ORANGE TO GRAYISH BROWN
15% POROSITY: INTERGRANULAR, VUGULAR
POSSIBLY HIGH PERMEABILITY; 10-50% ALTERED; ANHEDRAL
GRAIN SIZE: VERY FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT, CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: BIOTURBATED
ACCESSORY MINERALS: PHOSPHATIC SAND-01%, CALCITE-05%
OTHER FEATURES: PLATY, MEDIUM RECRYSTALLIZATION
FOSSILS: FOSSIL FRAGMENTS, FOSSIL MOLDS, MOLLUSKS
ECHINOID

807 - 810 DOLOSTONE; VERY LIGHT ORANGE TO GRAYISH BROWN
08% POROSITY: INTERGRANULAR, PIN POINT VUGS
10-50% ALTERED; ANHEDRAL
GRAIN SIZE: VERY FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT, CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND- %, CALCITE-03%
OTHER FEATURES: MEDIUM RECRYSTALLIZATION
FOSSILS: MOLLUSKS, FOSSIL FRAGMENTS

810 - 816.5 CALCARENITE; WHITE TO YELLOWISH GRAY
15% POROSITY: INTERGRANULAR
GRAIN TYPE: INTRACLASTS, CALCILUTITE
20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: LITHOGRAPHIC; RANGE: LITHOGRAPHIC TO VERY FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: FISSILE, BEDDED
ACCESSORY MINERALS: CLAY-05%, PHOSPHATIC SAND-02%
OTHER FEATURES: WEATHERED

FOSSILS: NO FOSSILS
GREENISH-GRAY CLAY LENSE @ ABOUT 813' - 1/2" THICK. FOSSIL FORAM- COSKOLINA FLORADANA - AVON PARK INDEX FOSSIL. INTERBEDDED STRINGERS OF CALCAREOUS CLAY.

816.5- 819 CALCARENITE; YELLOWISH GRAY TO PINKISH GRAY
15% POROSITY: INTERGRANULAR, VUGULAR
GRAIN TYPE: INTRACLASTS, CALCILUTITE
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: FISSILE, BEDDED
ACCESSORY MINERALS: PHOSPHATIC SAND-01%
OTHER FEATURES: WEATHERED, FOSSILIFEROUS
FOSSILS: FOSSIL FRAGMENTS, FOSSIL MOLDS, MOLLUSKS

819 - 823 DOLOSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
15% POROSITY: INTERGRANULAR, VUGULAR
POSSIBLY HIGH PERMEABILITY; 10-50% ALTERED; ANHEDRAL
GRAIN SIZE: VERY FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, DOLOMITE CEMENT
SEDIMENTARY STRUCTURES: BEDDED
ACCESSORY MINERALS: PHOSPHATIC SAND-01%
PHOSPHATIC GRAVEL-01%, CALCITE-05%
OTHER FEATURES: MEDIUM RECRYSTALLIZATION, FOSSILIFEROUS
FOSSILS: FOSSIL FRAGMENTS, FOSSIL MOLDS, MOLLUSKS

823 - 828 CALCARENITE; YELLOWISH GRAY TO WHITE
06% POROSITY: INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: INTRACLASTS, CALCILUTITE
20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: LITHOGRAPHIC; RANGE: LITHOGRAPHIC TO VERY FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: BEDDED
ACCESSORY MINERALS: PHOSPHATIC SAND-02%, CALCITE-03%
OTHER FEATURES: WEATHERED
FOSSILS: FOSSIL FRAGMENTS, FOSSIL MOLDS, MOLLUSKS

828 - 828.8 LIMESTONE; YELLOWISH GRAY
02% POROSITY: LOW PERMEABILITY
GRAIN TYPE: INTRACLASTS; 50% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: LITHOGRAPHIC TO FINE
POOR INDURATION
CEMENT TYPE(S): CLAY MATRIX, CALCILUTITE MATRIX
OTHER FEATURES: CALCAREOUS
FOSSILS: NO FOSSILS

828.8- 834.5 DOLOSTONE; VERY LIGHT ORANGE TO GRAYISH BROWN
06% POROSITY: INTERGRANULAR, PIN POINT VUGS, VUGULAR
50-90% ALTERED; ANHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
GOOD INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT, CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: BEDDED
ACCESSORY MINERALS: PHOSPHATIC SAND-02%
PHOSPHATIC GRAVEL-02%, PYRITE-01%, QUARTZ SAND- %
FOSSILS: FOSSIL FRAGMENTS, FOSSIL MOLDS
PHOSPHATIC GRAVEL SIZE MODES SCATTERED--MORE BEDDED LOWER PORTION. LOWER PORTION MORE BEDDED EVIDENCED BY FREQUENT WASHOFFS. 3-INCH THICK CALCILUTITE STRINGER AT 833' BLS.

WORM-LIKE TUBE FOSSILS-FRAGMENTS?

834.5- 844 CALCARENITE; YELLOWISH GRAY
02% POROSITY: LOW PERMEABILITY
GRAIN TYPE: INTRACLASTS; 50% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
POOR INDURATION
CEMENT TYPE(S): CLAY MATRIX
SEDIMENTARY STRUCTURES: BEDDED
ACCESSORY MINERALS: CLAY-50%, PHOSPHATIC SAND-01%
PYRITE- %
OTHER FEATURES: CALCAREOUS, WEATHERED
FOSSILS: NO FOSSILS
DOLOMITE-STRINGERS BETWEEN 839-841 - HEAVY WASHOUT OF
CLAYEY LIMESTONE INTERBEDDED NEAR TOP OF RUN

844 - 846 DOLOSTONE; VERY LIGHT ORANGE TO GRAYISH BROWN
06% POROSITY: INTERGRANULAR, PIN POINT VUGS
50-90% ALTERED; SUBHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
GOOD INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT, CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: BEDDED
ACCESSORY MINERALS: PHOSPHATIC GRAVEL-01%
PHOSPHATIC SAND-01%, ANHYDRITE-01%
OTHER FEATURES: WEATHERED
FOSSILS: NO FOSSILS

846 - 847 CALCARENITE; YELLOWISH GRAY
02% POROSITY: LOW PERMEABILITY
GRAIN TYPE: INTRACLASTS; 50% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
POOR INDURATION
CEMENT TYPE(S): CLAY MATRIX
ACCESSORY MINERALS: CLAY-50%, PHOSPHATIC GRAVEL-01%
PHOSPHATIC SAND-01%
OTHER FEATURES: CALCAREOUS, WEATHERED
FOSSILS: NO FOSSILS

847 - 850 DOLOSTONE; VERY LIGHT ORANGE TO GRAYISH BROWN
04% POROSITY: INTERGRANULAR, PIN POINT VUGS, FRACTURE
10-50% ALTERED; ANHEDRAL
GRAIN SIZE: LITHOGRAPHIC; RANGE: LITHOGRAPHIC TO VERY FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, DOLOMITE CEMENT
SEDIMENTARY STRUCTURES: INTERBEDDED
ACCESSORY MINERALS: PHOSPHATIC SAND-02%, CLAY-05%
FOSSILS: NO FOSSILS
INTERBEDDED STREAKS OF PHOSPHATIC SANDS,CLAY,AND POSSIBLE
ORGANICS.

850 - 852 CALCILUTITE; YELLOWISH GRAY
04% POROSITY: LOW PERMEABILITY
UNCONSOLIDATED
CEMENT TYPE(S): CLAY MATRIX, CALCILUTITE MATRIX
OTHER FEATURES: CALCAREOUS, MUDDY, WEATHERED
FOSSILS: ECHINOID, MOLLUSKS
CALCAREOUS LIME-MUD.

852 - 853 DOLOSTONE; VERY LIGHT ORANGE TO GRAYISH BROWN
06% POROSITY: INTERGRANULAR, PIN POINT VUGS, VUGULAR
0-10% ALTERED; ANHEDRAL
GRAIN SIZE: LITHOGRAPHIC; RANGE: LITHOGRAPHIC TO VERY FINE

MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, DOLOMITE CEMENT
SEDIMENTARY STRUCTURES: INTERBEDDED
ACCESSORY MINERALS: PHOSPHATIC SAND-02%, CLAY-05%
FOSSILS: NO FOSSILS
VERY SIMILAR TO 842-852 EXCEPT LARGER VUGS - HIGHER POROSITY

853 - 854 CALCILUTITE; YELLOWISH GRAY
POROSITY: LOW PERMEABILITY
UNCONSOLIDATED
CEMENT TYPE(S): CLAY MATRIX, CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC GRAVEL-01%
OTHER FEATURES: CALCAREOUS, MUDDY
MEDIUM RECRYSTALLIZATION
FOSSILS: VERTEBRATE
SIMILAR TO 852-853 EXCEPT SOME PHOSPHATIC SAND?

854 - 854.2 DOLOSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
04% POROSITY: INTERGRANULAR; 10-50% ALTERED; ANHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CALCILUTITE-20%
OTHER FEATURES: CALCAREOUS, WEATHERED

854.2- 854.4 CLAY; VERY LIGHT ORANGE
02% POROSITY: NOT OBSERVED; UNCONSOLIDATED
CEMENT TYPE(S): CLAY MATRIX
ACCESSORY MINERALS: DOLOMITE-15%
OTHER FEATURES: PLASTIC, WEATHERED

854.4- 859 CALCARENITE; VERY LIGHT ORANGE
04% POROSITY: PIN POINT VUGS, INTERGRANULAR
GRAIN TYPE: INTRACLASTS; 40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-30%
OTHER FEATURES: DOLOMITIC
FOSSILS: BENTHIC FORAMINIFERA

859 - 863.8 CALCARENITE; YELLOWISH GRAY
05% POROSITY: PIN POINT VUGS, INTERGRANULAR
GRAIN TYPE: INTRACLASTS; 50% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE, INTERBEDDED
ACCESSORY MINERALS: DOLOMITE-25%
OTHER FEATURES: GRANULAR, DOLOMITIC

863.8- 864.3 CALCARENITE; GRAYISH ORANGE TO VERY LIGHT ORANGE
04% POROSITY: PIN POINT VUGS, INTERGRANULAR
GRAIN TYPE: INTRACLASTS; 50% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-25%
OTHER FEATURES: DOLOMITIC, GRANULAR

864.3- 864.8 CALCARENITE; VERY LIGHT ORANGE
04% POROSITY: PIN POINT VUGS, INTERGRANULAR
GRAIN TYPE: INTRACLASTS; 40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-10%
OTHER FEATURES: DOLOMITIC, GRANULAR

864.8- 869 CALCARENITE; VERY LIGHT ORANGE
10% POROSITY: PIN POINT VUGS, INTERGRANULAR, MOLDIC
GRAIN TYPE: INTRACLASTS; 60% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: MEDIUM; RANGE: LITHOGRAPHIC TO MEDIUM
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE, LAMINATED
ACCESSORY MINERALS: DOLOMITE-10%
OTHER FEATURES: DOLOMITIC, GRANULAR
FOSSILS: MILIOLIDS, MOLLUSKS

869 - 875.5 CALCARENITE; VERY LIGHT ORANGE
03% POROSITY: NOT OBSERVED
GRAIN TYPE: INTRACLASTS; 20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: LITHOGRAPHIC; RANGE: LITHOGRAPHIC TO FINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-03%
OTHER FEATURES: WEATHERED, DOLOMITIC

875.5- 876 CALCARENITE; VERY LIGHT ORANGE
05% POROSITY: PIN POINT VUGS, INTERGRANULAR
GRAIN TYPE: INTRACLASTS; 40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-15%
OTHER FEATURES: DOLOMITIC

876 - 876.5 CALCARENITE; VERY LIGHT ORANGE
04% POROSITY: INTERGRANULAR
GRAIN TYPE: INTRACLASTS; 40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-10%
OTHER FEATURES: DOLOMITIC, WEATHERED

876.5- 879.4 CALCARENITE; VERY LIGHT ORANGE
02% POROSITY: NOT OBSERVED
GRAIN TYPE: INTRACLASTS; 15% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: LITHOGRAPHIC; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE, LAMINATED
ACCESSORY MINERALS: DOLOMITE-04%, PYRITE-02%
OTHER FEATURES: CHALKY

879.4- 891 CALCARENITE; VERY LIGHT ORANGE TO GRAYISH BROWN
03% POROSITY: NOT OBSERVED, INTERGRANULAR

GRAIN TYPE: INTRACLASTS; 20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE, LAMINATED, MOTTLED
ACCESSORY MINERALS: DOLOMITE-10%, PYRITE-01%
OTHER FEATURES: VARIEGATED, WEATHERED

891 - 894.5 CALCARENITE; VERY LIGHT ORANGE TO GRAYISH BROWN
04% POROSITY: INTERGRANULAR
GRAIN TYPE: INTRACLASTS; 30% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE, LAMINATED
ACCESSORY MINERALS: DOLOMITE-10%
OTHER FEATURES: VARIEGATED

894.5- 900.5 CALCARENITE; VERY LIGHT ORANGE
06% POROSITY: INTERGRANULAR
GRAIN TYPE: INTRACLASTS; 40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-05%
OTHER FEATURES: WEATHERED

900.5- 904 CALCILUTITE; VERY LIGHT ORANGE
02% POROSITY: NOT OBSERVED
GRAIN TYPE: INTRACLASTS; 15% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: LITHOGRAPHIC; RANGE: LITHOGRAPHIC TO FINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE

904 - 904.4 CALCARENITE; VERY LIGHT ORANGE TO GRAYISH BROWN
04% POROSITY: INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: INTRACLASTS; 20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: LITHOGRAPHIC; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: LAMINATED
ACCESSORY MINERALS: DOLOMITE-10%

904.4- 908 CALCARENITE; VERY LIGHT ORANGE
04% POROSITY: INTERGRANULAR
GRAIN TYPE: INTRACLASTS; 25% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-04%
OTHER FEATURES: WEATHERED
FOSSILS: MILIOLIDS

908 - 909.5 CALCARENITE; VERY LIGHT ORANGE TO GRAYISH BROWN
06% POROSITY: INTERGRANULAR
GRAIN TYPE: INTRACLASTS; 30% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE

ACCESSORY MINERALS: DOLOMITE-04%
FOSSILS: MILIOLIDS

909.5- 911.2 CALCILUTITE; VERY LIGHT ORANGE
02% POROSITY: NOT OBSERVED
GRAIN TYPE: INTRACLASTS; 15% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: LITHOGRAPHIC; RANGE: LITHOGRAPHIC TO FINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE

911.2- 917.7 CALCARENITE; VERY LIGHT ORANGE
15% POROSITY: MOLDIC, INTERGRANULAR, VUGULAR
GRAIN TYPE: INTRACLASTS, BIOGENIC
50% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO MEDIUM
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: BIOTURBATED, MASSIVE
ACCESSORY MINERALS: CALCITE-15%, DOLOMITE-05%
ORGANICS-02%
OTHER FEATURES: LOW RECRYSTALLIZATION
FOSSILS: ECHINOID, MOLLUSKS, CORAL, MILIOLIDS
DALLI.

917.7- 918.8 CALCARENITE; VERY LIGHT ORANGE TO GRAYISH BROWN
05% POROSITY: PIN POINT VUGS, INTERGRANULAR
GRAIN TYPE: INTRACLASTS; 20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE, MOTTLED
ACCESSORY MINERALS: DOLOMITE-08%, CALCITE-05%
OTHER FEATURES: VARIEGATED

918.8- 929.8 CALCARENITE; VERY LIGHT ORANGE
10% POROSITY: PIN POINT VUGS, INTERGRANULAR, MOLDIC
GRAIN TYPE: INTRACLASTS, BIOGENIC
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-12%, CALCITE-05%
OTHER FEATURES: DOLOMITIC, LOW RECRYSTALLIZATION, GRANULAR
FOSSILS: MOLLUSKS

929.8- 930.6 CLAY; YELLOWISH GRAY
POROSITY: NOT OBSERVED; POOR INDURATION
CEMENT TYPE(S): CLAY MATRIX, CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
CLAY SMELLED BAD

930.6- 933.6 CALCARENITE; VERY LIGHT ORANGE
05% POROSITY: PIN POINT VUGS, INTERGRANULAR
GRAIN TYPE: INTRACLASTS; 50% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-10%, CALCITE-03%
OTHER FEATURES: DOLOMITIC, GRANULAR

933.6- 934.5 CALCARENITE; VERY LIGHT ORANGE TO YELLOWISH GRAY
05% POROSITY: PIN POINT VUGS, INTERGRANULAR, FRACTURE
GRAIN TYPE: INTRACLASTS; 50% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: LAMINATED, MOTTLED
ACCESSORY MINERALS: DOLOMITE-20%, CALCILUTITE-08%
OTHER FEATURES: VARIEGATED

934.5- 938.7 CLAY; VERY LIGHT ORANGE
POROSITY: NOT OBSERVED; POOR INDURATION
CEMENT TYPE(S): CLAY MATRIX, CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: CALCARENITE-10%
SMELLED BAD

938.7- 939 CALCARENITE; VERY LIGHT ORANGE
03% POROSITY: PIN POINT VUGS, INTERGRANULAR, MOLDIC
GRAIN TYPE: INTRACLASTS; 30% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-01%

939 - 939.1 CALCARENITE; VERY LIGHT ORANGE TO WHITE
03% POROSITY: PIN POINT VUGS, INTERGRANULAR
GRAIN TYPE: INTRACLASTS; 20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, DOLOMITE CEMENT
SEDIMENTARY STRUCTURES: MOTTLED, NODULAR
ACCESSORY MINERALS: DOLOMITE-50%
OTHER FEATURES: DOLOMITIC

939.1- 943 CLAY; VERY LIGHT ORANGE
POROSITY: NOT OBSERVED; POOR INDURATION
CEMENT TYPE(S): CLAY MATRIX, CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: CALCARENITE-10%
BAD SMELL

943 - 944.6 CALCARENITE; VERY LIGHT ORANGE
03% POROSITY: PIN POINT VUGS, INTERGRANULAR
GRAIN TYPE: INTRACLASTS; 30% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-02%

944.6- 949 CLAY; VERY LIGHT ORANGE
POROSITY: NOT OBSERVED; POOR INDURATION
CEMENT TYPE(S): CLAY MATRIX, CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: CALCARENITE-10%

949 - 950 CALCARENITE; VERY LIGHT ORANGE
03% POROSITY: PIN POINT VUGS, INTERGRANULAR
GRAIN TYPE: INTRACLASTS; 30% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION

CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE, LAMINATED
ACCESSORY MINERALS: DOLOMITE-05%

950 - 950.8 CLAY; VERY LIGHT ORANGE
POROSITY: NOT OBSERVED; POOR INDURATION
CEMENT TYPE(S): CLAY MATRIX, CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE

950.8- 951 CALCARENITE; VERY LIGHT ORANGE
03% POROSITY: PIN POINT VUGS, INTERGRANULAR
GRAIN TYPE: INTRACLASTS; 30% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-01%

951 - 954 CLAY; VERY LIGHT ORANGE
POROSITY: NOT OBSERVED; POOR INDURATION
CEMENT TYPE(S): CLAY MATRIX, CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: CALCARENITE-10%

954 - 955 CALCARENITE; VERY LIGHT ORANGE
08% POROSITY: PIN POINT VUGS, FRACTURE, INTERGRANULAR
GRAIN TYPE: INTRACLASTS; 20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: LITHOGRAPHIC; RANGE: LITHOGRAPHIC TO FINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX

955 - 959.6 DOLOSTONE; YELLOWISH GRAY
05% POROSITY: PIN POINT VUGS, INTERGRANULAR, FRACTURE
10-50% ALTERED; EUHEDRAL
GRAIN SIZE: LITHOGRAPHIC; RANGE: LITHOGRAPHIC TO FINE
GOOD INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
SEDIMENTARY STRUCTURES: MOTTLED, STREAKED
OTHER FEATURES: MEDIUM RECRYSTALLIZATION
FOSSILS: ECHINOID

959.6- 961.4 CALCARENITE; YELLOWISH GRAY TO VERY LIGHT ORANGE
POROSITY: NOT OBSERVED
GRAIN TYPE: CALCILUTITE, INTRACLASTS
60% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MOTTLED, LAMINATED
ACCESSORY MINERALS: DOLOMITE-40%, MANGANESE OXIDE-05%
OTHER FEATURES: DOLOMITIC, GRANULAR

961.4- 961.9 CALCARENITE; YELLOWISH GRAY TO VERY LIGHT ORANGE
POROSITY: NOT OBSERVED
GRAIN TYPE: CALCILUTITE, INTRACLASTS
50% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
UNCONSOLIDATED
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-40%
OTHER FEATURES: DOLOMITIC, GRANULAR

961.9- 965 CALCARENITE; VERY LIGHT ORANGE
02% POROSITY: PIN POINT VUGS, INTERGRANULAR
GRAIN TYPE: CALCILUTITE, INTRACLASTS
50% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE, LAMINATED
ACCESSORY MINERALS: DOLOMITE-40%, CALCITE-10%
OTHER FEATURES: DOLOMITIC, GRANULAR

965 - 966.5 CALCARENITE; VERY LIGHT ORANGE TO YELLOWISH GRAY
03% POROSITY: PIN POINT VUGS, INTERGRANULAR
GRAIN TYPE: CALCILUTITE, INTRACLASTS
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: LAMINATED, INTERBEDDED, MOTTLED
ACCESSORY MINERALS: DOLOMITE-20%, CALCITE-15%
OTHER FEATURES: VARIEGATED, DOLOMITIC

966.5- 969.2 CALCARENITE; VERY LIGHT ORANGE
04% POROSITY: PIN POINT VUGS, INTERGRANULAR
GRAIN TYPE: CALCILUTITE, INTRACLASTS
30% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-15%, CALCITE-02%
OTHER FEATURES: DOLOMITIC

969.2- 970 CALCILUTITE; VERY LIGHT ORANGE
POROSITY: NOT OBSERVED
GRAIN TYPE: CALCILUTITE; 15% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: LITHOGRAPHIC; RANGE: LITHOGRAPHIC TO VERY FINE
UNCONSOLIDATED
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-02%

970 - 974.4 CALCARENITE; WHITE TO MODERATE LIGHT GRAY
02% POROSITY: PIN POINT VUGS, INTERGRANULAR
GRAIN TYPE: CALCILUTITE, INTRACLASTS
20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MOTTLED, MASSIVE
ACCESSORY MINERALS: DOLOMITE-20%
OTHER FEATURES: CHALKY

974.4- 975.9 CALCARENITE; VERY LIGHT ORANGE
POROSITY: NOT OBSERVED
GRAIN TYPE: CALCILUTITE, INTRACLASTS
20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: LITHOGRAPHIC; RANGE: LITHOGRAPHIC TO FINE
UNCONSOLIDATED
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-05%

975.9- 980.5 CALCARENITE; YELLOWISH GRAY TO VERY LIGHT ORANGE
08% POROSITY: INTERGRANULAR, VUGULAR
GRAIN TYPE: CALCILUTITE, INTRACLASTS
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE, MOTTLED
ACCESSORY MINERALS: DOLOMITE-20%, CALCITE-10%
OTHER FEATURES: MEDIUM RECRYSTALLIZATION
FOSSILS: ECHINOID
DALLI.

980.5- 981.5 CALCARENITE; VERY LIGHT ORANGE
POROSITY: NOT OBSERVED
GRAIN TYPE: CALCILUTITE; 30% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-20%
OTHER FEATURES: GRANULAR

981.5- 982.9 CALCARENITE; YELLOWISH GRAY TO VERY LIGHT ORANGE
04% POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, INTRACLASTS
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: LAMINATED, MOTTLED
ACCESSORY MINERALS: DOLOMITE-20%, CALCITE-10%

982.9- 984.6 CALCARENITE; WHITE
POROSITY: NOT OBSERVED
GRAIN TYPE: CALCILUTITE; 20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: LITHOGRAPHIC; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: LAMINATED, MOTTLED
ACCESSORY MINERALS: DOLOMITE-10%
OTHER FEATURES: CHALKY

984.6- 986.8 CALCARENITE; VERY LIGHT ORANGE
04% POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, INTRACLASTS
50% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
UNCONSOLIDATED
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-05%, ORGANICS-01%
OTHER FEATURES: GRANULAR, WEATHERED

986.8- 989 CALCILUTITE; VERY LIGHT ORANGE
POROSITY: NOT OBSERVED
GRAIN TYPE: CALCILUTITE, INTRACLASTS
20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: LITHOGRAPHIC; RANGE: LITHOGRAPHIC TO FINE
UNCONSOLIDATED
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-02%, ORGANICS-02%

OTHER FEATURES: WEATHERED, GRANULAR
BAD SMELL

989 - 991.4 CALCARENITE; VERY LIGHT ORANGE
04% POROSITY: INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: CALCILUTITE, INTRACLASTS
30% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE, LAMINATED, MOTTLED
ACCESSORY MINERALS: DOLOMITE-04%, ORGANICS-01%
CALCITE-02%

991.4- 991.6 CALCARENITE; VERY LIGHT ORANGE TO GRAYISH BROWN
04% POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, INTRACLASTS
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: LAMINATED, BEDDED
ACCESSORY MINERALS: ORGANICS-15%, DOLOMITE-01%

991.6- 991.9 CALCARENITE; VERY LIGHT ORANGE
04% POROSITY: INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: CALCILUTITE, INTRACLASTS
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-02%

991.9- 992.1 CALCILUTITE; VERY LIGHT ORANGE
POROSITY: NOT OBSERVED
GRAIN TYPE: CALCILUTITE; 10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: LITHOGRAPHIC; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE

992.1- 992.3 CALCARENITE; VERY LIGHT ORANGE
04% POROSITY: INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: CALCILUTITE, INTRACLASTS
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-02%

992.3- 992.8 CALCILUTITE; YELLOWISH GRAY
POROSITY: NOT OBSERVED
GRAIN TYPE: CALCILUTITE; 10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: LITHOGRAPHIC; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE, LAMINATED

992.8- 994.5 CALCARENITE; VERY LIGHT ORANGE
04% POROSITY: INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: CALCILUTITE, INTRACLASTS

40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: LAMINATED
ACCESSORY MINERALS: DOLOMITE-03%, CALCITE-01%

994.5- 997 CALCARENITE; VERY LIGHT ORANGE
08% POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, INTRACLASTS
60% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
UNCONSOLIDATED
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-03%, CALCITE-02%
OTHER FEATURES: WEATHERED, GRANULAR
FOSSILS: FOSSIL FRAGMENTS

997 - 1004 CALCARENITE; VERY LIGHT ORANGE
08% POROSITY: INTERGRANULAR, PIN POINT VUGS, VUGULAR
GRAIN TYPE: CALCILUTITE, INTRACLASTS
60% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE, MOTTLED
ACCESSORY MINERALS: DOLOMITE-03%, CALCITE-02%
OTHER FEATURES: WEATHERED, GRANULAR
FOSSILS: FOSSIL FRAGMENTS

1004 - 1004.4 CALCARENITE; VERY LIGHT ORANGE
04% POROSITY: INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: CALCILUTITE, INTRACLASTS
70% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-02%, CALCITE-01%
ORGANICS-01%
OTHER FEATURES: GRANULAR

1004.4- 1005.1 CALCARENITE; VERY LIGHT ORANGE
05% POROSITY: INTERGRANULAR
GRAIN TYPE: INTRACLASTS, CALCILUTITE
60% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-02%, CALCITE-01%
OTHER FEATURES: GRANULAR, WEATHERED

1005.1- 1007.3 CALCARENITE; VERY LIGHT ORANGE
03% POROSITY: INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: INTRACLASTS, CALCILUTITE
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-02%, CALCITE-02%

OTHER FEATURES: GRANULAR

1007.3- 1009.2 CALCARENITE; VERY LIGHT ORANGE TO LIGHT BLUISH GRAY
03% POROSITY: INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: INTRACLASTS, CALCILUTITE
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE, MOTTLED, NODULAR
ACCESSORY MINERALS: DOLOMITE-04%, CALCITE-05%
OTHER FEATURES: GRANULAR

1009.2- 1009.6 CALCARENITE; VERY LIGHT ORANGE
03% POROSITY: INTERGRANULAR
GRAIN TYPE: INTRACLASTS, CALCILUTITE
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-02%, CALCITE-02%
OTHER FEATURES: GRANULAR

1009.6- 1010.6 CALCILUTITE; VERY LIGHT ORANGE
POROSITY: NOT OBSERVED
GRAIN TYPE: CALCILUTITE, INTRACLASTS
15% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: LITHOGRAPHIC; RANGE: LITHOGRAPHIC TO FINE
UNCONSOLIDATED
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE

1010.6- 1011.1 CALCARENITE; VERY LIGHT ORANGE TO MODERATE GRAY
05% POROSITY: INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: INTRACLASTS, CALCILUTITE
25% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: LAMINATED, BEDDED
ACCESSORY MINERALS: ORGANICS-10%

1011.1- 1014.9 CALCILUTITE; VERY LIGHT ORANGE
POROSITY: NOT OBSERVED
GRAIN TYPE: CALCILUTITE; 05% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: LITHOGRAPHIC; RANGE: LITHOGRAPHIC TO VERY FINE
GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE

1014.9- 1016.3 CALCARENITE; VERY LIGHT ORANGE
03% POROSITY: INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: INTRACLASTS, CALCILUTITE
30% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-08%
OTHER FEATURES: GRANULAR

1016.3- 1016.9 CALCARENITE; LIGHT GRAY TO VERY LIGHT ORANGE

06% POROSITY: INTERGRANULAR, PIN POINT VUGS, MOLDIC
GRAIN TYPE: INTRACLASTS, CALCILUTITE
30% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: LAMINATED, CROSS-BEDDED, MOTTLED
ACCESSORY MINERALS: DOLOMITE-03%
FOSSILS: BENTHIC FORAMINIFERA

1016.9- 1018.6 CALCARENITE; VERY LIGHT ORANGE
03% POROSITY: INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: INTRACLASTS, CALCILUTITE
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-05%, CALCITE-02%
OTHER FEATURES: GRANULAR

1018.6- 1024 CALCARENITE; LIGHT GRAY TO VERY LIGHT ORANGE
06% POROSITY: INTERGRANULAR, PIN POINT VUGS, FRACTURE
GRAIN TYPE: INTRACLASTS, CALCILUTITE
50% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO GRANULE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE, MOTTLED
ACCESSORY MINERALS: DOLOMITE-10%, CALCITE-05%
OTHER FEATURES: GRANULAR

1024 - 1024.7 CALCARENITE; GRAYISH ORANGE
10% POROSITY: INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: INTRACLASTS, CALCILUTITE
50% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO GRANULE
GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-10%, CALCITE-05%
OTHER FEATURES: GRANULAR

1024.7- 1024.9 CALCARENITE; GRAYISH ORANGE TO VERY LIGHT ORANGE
05% POROSITY: INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: INTRACLASTS, CALCILUTITE
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MOTTLED, LAMINATED
ACCESSORY MINERALS: DOLOMITE-10%, CALCITE-15%
ORGANICS-05%

1024.9- 1025.1 CALCARENITE; VERY LIGHT ORANGE
08% POROSITY: INTERGRANULAR, PIN POINT VUGS, VUGULAR
GRAIN TYPE: INTRACLASTS, CALCILUTITE
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO GRANULE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: LAMINATED, MOTTLED
ACCESSORY MINERALS: ORGANICS-01%

1025.1- 1026.1 CALCARENITE; VERY LIGHT ORANGE
05% POROSITY: INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: INTRACLASTS, CALCILUTITE
70% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO GRANULE
GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MOTTLED, NODULAR
ACCESSORY MINERALS: DOLOMITE-02%
OTHER FEATURES: GRANULAR, SUCROSIC

1026.1- 1028.5 CALCARENITE; VERY LIGHT ORANGE
03% POROSITY: INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: INTRACLASTS, CALCILUTITE
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE, NODULAR
ACCESSORY MINERALS: DOLOMITE-10%
OTHER FEATURES: GRANULAR

1028.5- 1029 CALCARENITE; VERY LIGHT ORANGE
05% POROSITY: INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: INTRACLASTS, CALCILUTITE
60% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO GRANULE
GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE, NODULAR
ACCESSORY MINERALS: DOLOMITE-20%
OTHER FEATURES: DOLOMITIC, GRANULAR

1029 - 1030 CALCARENITE; YELLOWISH GRAY
02% POROSITY: INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: INTRACLASTS, CALCILUTITE
30% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-30%
OTHER FEATURES: SPECKLED

1030 - 1034.2 CALCARENITE; VERY LIGHT ORANGE TO YELLOWISH GRAY
05% POROSITY: INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: INTRACLASTS, CALCILUTITE
50% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO GRANULE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MOTTLED, NODULAR
ACCESSORY MINERALS: DOLOMITE-25%, CALCITE-10%
OTHER FEATURES: GRANULAR

1034.2- 1035.7 CALCARENITE; VERY LIGHT ORANGE TO YELLOWISH GRAY
08% POROSITY: INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: INTRACLASTS, CALCILUTITE
70% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO GRANULE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX

SEDIMENTARY STRUCTURES: MOTTLED, NODULAR
ACCESSORY MINERALS: DOLOMITE-20%, CALCITE-15%
OTHER FEATURES: GRANULAR

1035.7- 1036.7 CALCARENITE; GRAYISH ORANGE
08% POROSITY: INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: INTRACLASTS, CALCILUTITE
60% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO GRANULE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE, MOTTLED, NODULAR
ACCESSORY MINERALS: DOLOMITE-10%, CALCITE-10%
OTHER FEATURES: DOLOMITIC, GRANULAR

1036.7- 1037.2 CALCARENITE; LIGHT OLIVE GRAY TO VERY LIGHT ORANGE
10% POROSITY: INTERGRANULAR, PIN POINT VUGS, VUGULAR
GRAIN TYPE: INTRACLASTS, CALCILUTITE
50% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO GRANULE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MOTTLED, NODULAR
ACCESSORY MINERALS: DOLOMITE-10%, CALCITE-10%
OTHER FEATURES: DOLOMITIC, GRANULAR
CLASTS OF CLACARENITE IN DARKER CALCARENITE.

1037.2- 1040 CALCARENITE; GRAYISH ORANGE TO VERY LIGHT ORANGE
15% POROSITY: INTERGRANULAR, PIN POINT VUGS, VUGULAR
GRAIN TYPE: INTRACLASTS, CALCILUTITE
50% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO GRANULE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MOTTLED, NODULAR
ACCESSORY MINERALS: DOLOMITE-10%, CALCITE-10%
OTHER FEATURES: DOLOMITIC, GRANULAR

1040 - 1044.5 CALCARENITE; YELLOWISH GRAY
04% POROSITY: INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: INTRACLASTS, CALCILUTITE
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-05%, CALCITE-10%
OTHER FEATURES: SPECKLED
FOSSILS: BENTHIC FORAMINIFERA
NUMMULITES.

1044.5- 1049.3 CALCARENITE; VERY LIGHT ORANGE
10% POROSITY: INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: INTRACLASTS, CALCILUTITE
80% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: MEDIUM; RANGE: LITHOGRAPHIC TO GRANULE
GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-15%, CALCITE-15%
OTHER FEATURES: SPECKLED, GRANULAR
FOSSILS: BENTHIC FORAMINIFERA
NUMMULITES.

1049.3- 1050.3 CALCARENITE; GRAYISH OLIVE GREEN
10% POROSITY: INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: INTRACLASTS, CALCILUTITE
80% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: MEDIUM; RANGE: LITHOGRAPHIC TO GRANULE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, DOLOMITE CEMENT
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-05%, CALCITE-15%
OTHER FEATURES: SPECKLED, DOLOMITIC, GRANULAR
FOSSILS: BENTHIC FORAMINIFERA
NUMMULITES.

1050.3- 1051.3 CALCARENITE; VERY LIGHT ORANGE
03% POROSITY: INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: INTRACLASTS, CALCILUTITE
60% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO MEDIUM
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, DOLOMITE CEMENT
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-05%, CALCITE-15%
OTHER FEATURES: SPECKLED
FOSSILS: BENTHIC FORAMINIFERA
NUMMULITES.

1051.3- 1052.2 CALCARENITE; VERY LIGHT ORANGE
03% POROSITY: INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: INTRACLASTS, CALCILUTITE
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE, MOTTLED, NODULAR
ACCESSORY MINERALS: DOLOMITE-05%, CALCITE-05%
FOSSILS: BENTHIC FORAMINIFERA
NUMMULITES.

1052.2- 1053.2 CALCARENITE; LIGHT GRAY
03% POROSITY: INTERGRANULAR, NOT OBSERVED
GRAIN TYPE: INTRACLASTS, CALCILUTITE
20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE, LAMINATED
ACCESSORY MINERALS: DOLOMITE-05%, CALCITE-05%

1053.2- 1058.2 CALCARENITE; VERY LIGHT ORANGE
08% POROSITY: INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: INTRACLASTS, CALCILUTITE
30% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
OTHER FEATURES: LOW RECRYSTALLIZATION

1058.2- 1058.8 CALCARENITE; OLIVE GRAY TO VERY LIGHT ORANGE
04% POROSITY: INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: INTRACLASTS, CALCILUTITE
30% ALLOCHEMICAL CONSTITUENTS

GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MOTTLED, NODULAR
ACCESSORY MINERALS: DOLOMITE-40%, CALCITE-20%
OTHER FEATURES: DOLOMITIC
BROWN MATRIX WITH LIGHT CALCARENITE FRAGS. DS-LS MIX?

1058.8- 1059.2 CALCARENITE; VERY LIGHT ORANGE
04% POROSITY: INTERGRANULAR
GRAIN TYPE: INTRACLASTS, CALCILUTITE
20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-05%

1059.2- 1059.4 CALCARENITE; MODERATE YELLOWISH BROWN TO VERY LIGHT ORANGE
04% POROSITY: INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: INTRACLASTS, CALCILUTITE
30% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MOTTLED, NODULAR
ACCESSORY MINERALS: DOLOMITE-40%, CALCITE-20%
OTHER FEATURES: DOLOMITIC

1059.4- 1062.3 CALCARENITE; VERY LIGHT ORANGE
05% POROSITY: INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: INTRACLASTS, CALCILUTITE
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-02%, CALCITE-02%
OTHER FEATURES: GRANULAR
FOSSILS: BENTHIC FORAMINIFERA
NUMMULITES.

1062.3- 1064.5 CALCARENITE; VERY LIGHT ORANGE
02% POROSITY: INTERGRANULAR, NOT OBSERVED
GRAIN TYPE: INTRACLASTS, CALCILUTITE
20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
OTHER FEATURES: CHALKY

1064.5- 1065 CALCARENITE; VERY LIGHT ORANGE
04% POROSITY: INTERGRANULAR, NOT OBSERVED
GRAIN TYPE: INTRACLASTS, CALCILUTITE
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-04%, CALCITE-04%

1065 - 1065.7 CALCARENITE; MODERATE YELLOWISH BROWN TO VERY LIGHT ORANGE

04% POROSITY: INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: INTRACLASTS, CALCILUTITE
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO GRANULE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MOTTLED, NODULAR
ACCESSORY MINERALS: DOLOMITE-40%, CALCITE-20%
OTHER FEATURES: DOLOMITIC

1065.7- 1067.7 CALCARENITE; VERY LIGHT ORANGE
08% POROSITY: INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: INTRACLASTS, CALCILUTITE
30% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE

1067.7- 1069.5 CALCARENITE; GRAYISH BROWN
10% POROSITY: INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: INTRACLASTS, CALCILUTITE
60% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO GRANULE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MOTTLED, NODULAR
ACCESSORY MINERALS: DOLOMITE-30%, CALCITE-20%
OTHER FEATURES: DOLOMITIC
FOSSILS: BENTHIC FORAMINIFERA
NUMMULITES.

1069.5- 1069.7 CALCARENITE; VERY LIGHT ORANGE TO MODERATE YELLOWISH BROWN
15% POROSITY: INTERGRANULAR, VUGULAR, PIN POINT VUGS
GRAIN TYPE: INTRACLASTS, CALCILUTITE
50% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: LAMINATED, NODULAR
ACCESSORY MINERALS: DOLOMITE-20%, CALCITE-20%
ORGANICS-05%

1069.7- 1070.7 CALCARENITE; PINKISH GRAY
02% POROSITY: INTERGRANULAR, NOT OBSERVED
GRAIN TYPE: CALCILUTITE, INTRACLASTS
20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: LITHOGRAPHIC TO FINE
GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE, LAMINATED

1070.7- 1075.8 CALCARENITE; VERY LIGHT ORANGE
05% POROSITY: INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: INTRACLASTS, CALCILUTITE
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE

1075.8- 1076.5 CALCARENITE; MODERATE YELLOWISH BROWN TO VERY LIGHT ORANGE
15% POROSITY: INTERGRANULAR, PIN POINT VUGS

GRAIN TYPE: INTRACLASTS, CALCILUTITE
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO GRANULE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MOTTLED, NODULAR
ACCESSORY MINERALS: DOLOMITE-40%, CALCITE-20%
OTHER FEATURES: DOLOMITIC

1076.5- 1076.8 CALCARENITE; VERY LIGHT ORANGE
04% POROSITY: INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: INTRACLASTS, CALCILUTITE
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE

1076.8- 1077.3 CALCARENITE; VERY LIGHT GRAY TO LIGHT GRAY
05% POROSITY: VUGULAR
GRAIN TYPE: INTRACLASTS, CALCILUTITE
20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: LAMINATED
ACCESSORY MINERALS: DOLOMITE-20%
OTHER FEATURES: MEDIUM RECRYSTALLIZATION, DOLOMITIC
HARD AS CHERT.

1077.3- 1079.8 CALCARENITE; VERY LIGHT ORANGE
15% POROSITY: FRACTURE
GRAIN TYPE: INTRACLASTS, CALCILUTITE
20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: CALCITE-05%
OTHER FEATURES: DOLOMITIC
SLICKEN SIDES ALONG APPARENT FAULTS.

1079.8- 1080.2 CALCARENITE; MODERATE YELLOWISH BROWN TO VERY LIGHT ORANGE
15% POROSITY: VUGULAR, INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: INTRACLASTS, CALCILUTITE
60% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: MEDIUM; RANGE: LITHOGRAPHIC TO GRANULE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MOTTLED
ACCESSORY MINERALS: DOLOMITE-30%, CALCILUTITE-20%
OTHER FEATURES: DOLOMITIC, LOW RECRYSTALLIZATION, SPECKLED
FOSSILS: BENTHIC FORAMINIFERA

1080.2- 1081.3 CALCARENITE; VERY LIGHT ORANGE
10% POROSITY: INTERGRANULAR, PIN POINT VUGS, FRACTURE
GRAIN TYPE: INTRACLASTS, CALCILUTITE
30% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
OTHER FEATURES: LOW RECRYSTALLIZATION

1081.3- 1081.7 CALCARENITE; VERY LIGHT ORANGE TO MODERATE YELLOWISH BROWN
20% POROSITY: VUGULAR, FRACTURE, INTERGRANULAR
GRAIN TYPE: INTRACLASTS, CALCILUTITE
80% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: MEDIUM; RANGE: LITHOGRAPHIC TO GRANULE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MOTTLED, NODULAR
ACCESSORY MINERALS: DOLOMITE-30%, CALCILUTITE-20%
OTHER FEATURES: DOLOMITIC, LOW RECRYSTALLIZATION

1081.7- 1084 CALCARENITE; VERY LIGHT ORANGE
05% POROSITY: FRACTURE
GRAIN TYPE: INTRACLASTS, CALCILUTITE
20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-05%
FOSSILS: BENTHIC FORAMINIFERA
NUMMULITES. SLICKEN SIDES.

1084 - 1086.2 CALCARENITE; VERY LIGHT ORANGE
10% POROSITY: INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: INTRACLASTS, CALCILUTITE
80% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO GRANULE
GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE, LAMINATED
ACCESSORY MINERALS: DOLOMITE-30%, CALCILUTITE-10%
OTHER FEATURES: GRANULAR, LOW RECRYSTALLIZATION

1086.2- 1089 CALCARENITE; VERY LIGHT ORANGE
20% POROSITY: FRACTURE, INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: INTRACLASTS, CALCILUTITE
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE, LAMINATED
ACCESSORY MINERALS: DOLOMITE-20%, CALCILUTITE-10%
OTHER FEATURES: GRANULAR, LOW RECRYSTALLIZATION
FOSSILS: BENTHIC FORAMINIFERA
NUMMULITES

1089 - 1091.1 CALCARENITE; VERY LIGHT ORANGE TO VERY LIGHT GRAY
10% POROSITY: FRACTURE, INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: INTRACLASTS, CALCILUTITE
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE, LAMINATED, MOTTLED
NODULAR
ACCESSORY MINERALS: DOLOMITE-10%, CALCILUTITE-05%
OTHER FEATURES: GRANULAR, LOW RECRYSTALLIZATION
FRACTURE W/ DISPLACEMENT.

1091.1- 1091.8 CALCARENITE; VERY LIGHT ORANGE TO YELLOWISH GRAY
20% POROSITY: FRACTURE, INTERGRANULAR, PIN POINT VUGS

GRAIN TYPE: INTRACLASTS, CALCILUTITE
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-10%, CALCILUTITE-05%
SLICKEN SIDES.

1091.8- 1092.5 CALCARENITE; GRAYISH ORANGE PINK
10% POROSITY: FRACTURE, INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: INTRACLASTS, CALCILUTITE
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: DOLOMITE-15%, CALCILUTITE-05%
OTHER FEATURES: LOW RECRYSTALLIZATION

1092.5- 1095 CALCARENITE; YELLOWISH GRAY TO LIGHT YELLOWISH ORANGE
15% POROSITY: FRACTURE, INTERGRANULAR, VUGULAR
GRAIN TYPE: INTRACLASTS, CALCILUTITE
20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-10%
OTHER FEATURES: LOW RECRYSTALLIZATION

1095 - 1099 CALCARENITE; YELLOWISH GRAY
20% POROSITY: FRACTURE, VUGULAR, INTERGRANULAR
GRAIN TYPE: INTRACLASTS, CALCILUTITE
80% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: MEDIUM; RANGE: LITHOGRAPHIC TO GRANULE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, DOLOMITE CEMENT
SEDIMENTARY STRUCTURES: MOTTLED, NODULAR
ACCESSORY MINERALS: DOLOMITE-15%
OTHER FEATURES: LOW RECRYSTALLIZATION

1099 - 1100.9 DOLOSTONE; VERY LIGHT ORANGE
20% POROSITY: VUGULAR, INTERGRANULAR, FRACTURE
0-10% ALTERED; ANHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
SEDIMENTARY STRUCTURES: MOTTLED, NODULAR, LAMINATED
OTHER FEATURES: LOW RECRYSTALLIZATION
SOME HARD CRYSTALLINE CHERTY MISSES.

1100.9- 1102.1 DOLOSTONE; GRAYISH ORANGE TO VERY LIGHT ORANGE
15% POROSITY: PIN POINT VUGS, INTERGRANULAR, VUGULAR
0-10% ALTERED; ANHEDRAL
GRAIN SIZE: MEDIUM; RANGE: LITHOGRAPHIC TO GRANULE
MODERATE INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT, CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MOTTLED, NODULAR
ACCESSORY MINERALS: CALCILUTITE-10%
OTHER FEATURES: CALCAREOUS
FOSSILS: BENTHIC FORAMINIFERA

1102.1- 1104.7 CALCARENITE; YELLOWISH GRAY

05% POROSITY: FRACTURE, NOT OBSERVED
GRAIN TYPE: CALCILUTITE, INTRACLASTS
20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: LITHOGRAPHIC TO FINE
GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, DOLOMITE CEMENT
SEDIMENTARY STRUCTURES: LAMINATED
ACCESSORY MINERALS: ORGANICS-01%, DOLOMITE-05%
OTHER FEATURES: DOLOMITIC
LAMINATIONS @ TOP SLICKEN SIDES @ BASE

1104.7- 1109.8 CALCARENITE; VERY LIGHT ORANGE TO YELLOWISH GRAY
10% POROSITY: VUGULAR, PIN POINT VUGS, INTERGRANULAR
GRAIN TYPE: INTRACLASTS, CALCILUTITE
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO GRANULE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, DOLOMITE CEMENT
SEDIMENTARY STRUCTURES: MOTTLED, NODULAR, LAMINATED
ACCESSORY MINERALS: DOLOMITE-15%
OTHER FEATURES: DOLOMITIC, LOW RECRYSTALLIZATION

1109.8- 1111.8 CALCARENITE; VERY LIGHT ORANGE
08% POROSITY: INTERGRANULAR, PIN POINT VUGS, FRACTURE
GRAIN TYPE: INTRACLASTS, CALCILUTITE
30% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
SEDIMENTARY STRUCTURES: LAMINATED
ACCESSORY MINERALS: DOLOMITE-10%
OTHER FEATURES: DOLOMITIC, LOW RECRYSTALLIZATION
DARK GREY CLAY UNIT .1FT @ BOTTOM OF PREVIOUS.

1111.8- 1113.7 CALCARENITE; VERY LIGHT ORANGE
05% POROSITY: INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: INTRACLASTS, CALCILUTITE
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, DOLOMITE CEMENT
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-10%
OTHER FEATURES: DOLOMITIC

1113.7- 1114 CALCARENITE; GRAYISH ORANGE
05% POROSITY: PIN POINT VUGS, INTERGRANULAR
GRAIN TYPE: INTRACLASTS, CALCILUTITE
50% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, DOLOMITE CEMENT
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-10%
OTHER FEATURES: DOLOMITIC

1114 - 1114.6 DOLOSTONE; VERY LIGHT ORANGE TO GRAYISH ORANGE
05% POROSITY: INTERGRANULAR, PIN POINT VUGS
10-50% ALTERED; ANHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
GOOD INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT, CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE

ACCESSORY MINERALS: CALCILUTITE-05%
OTHER FEATURES: CALCAREOUS, MEDIUM RECRYSTALLIZATION

1114.6- 1116 DOLOSTONE; GRAYISH BROWN TO MODERATE YELLOWISH BROWN
05% POROSITY: PIN POINT VUGS, INTERGRANULAR
10-50% ALTERED; SUBHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
GOOD INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT, CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: LAMINATED, BANDED
ACCESSORY MINERALS: CALCILUTITE-05%, ORGANICS-02%
OTHER FEATURES: CALCAREOUS, MEDIUM RECRYSTALLIZATION
VARIEGATED, GRANULAR

1116 - 1117.1 DOLOSTONE; GRAYISH ORANGE
08% POROSITY: PIN POINT VUGS, INTERGRANULAR
10-50% ALTERED; SUBHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO GRANULE
GOOD INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT, CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: CALCILUTITE-05%
OTHER FEATURES: GRANULAR, CALCAREOUS
MEDIUM RECRYSTALLIZATION

1117.1- 1118.8 DOLOSTONE; MODERATE YELLOWISH BROWN TO GRAYISH BROWN
08% POROSITY: PIN POINT VUGS, INTERGRANULAR
10-50% ALTERED; SUBHEDRAL
GRAIN SIZE: MEDIUM; RANGE: LITHOGRAPHIC TO GRANULE
GOOD INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT, CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MOTTLED, NODULAR, LAMINATED
ACCESSORY MINERALS: CALCILUTITE-08%
OTHER FEATURES: GRANULAR, CALCAREOUS
MEDIUM RECRYSTALLIZATION

1118.8- 1120 DOLOSTONE; GRAYISH BROWN TO VERY LIGHT ORANGE
04% POROSITY: INTERGRANULAR, PIN POINT VUGS
10-50% ALTERED; SUBHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
GOOD INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT, CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: CALCILUTITE-05%
OTHER FEATURES: GRANULAR, CALCAREOUS
MEDIUM RECRYSTALLIZATION

1120 - 1122.4 DOLOSTONE; VERY LIGHT ORANGE
08% POROSITY: FRACTURE, INTERGRANULAR, PIN POINT VUGS
10-50% ALTERED; SUBHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT, CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: CALCILUTITE-02%
OTHER FEATURES: GRANULAR, CALCAREOUS
MEDIUM RECRYSTALLIZATION

1122.4- 1123.2 DOLOSTONE; VERY LIGHT ORANGE TO GRAYISH BROWN
04% POROSITY: INTERGRANULAR, PIN POINT VUGS, FRACTURE
10-50% ALTERED; SUBHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO GRANULE
MODERATE INDURATION

CEMENT TYPE(S): DOLOMITE CEMENT, CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: CALCILUTITE-04%
OTHER FEATURES: GRANULAR, CALCAREOUS
MEDIUM RECRYSTALLIZATION
FOSSILS: BENTHIC FORAMINIFERA

1123.2- 1130.5 DOLOSTONE; VERY LIGHT ORANGE TO GRAYISH ORANGE
08% POROSITY: PIN POINT VUGS, INTERGRANULAR, FRACTURE
10-50% ALTERED; SUBHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT, CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: LAMINATED
ACCESSORY MINERALS: CALCILUTITE-04%
OTHER FEATURES: GRANULAR, CALCAREOUS
MEDIUM RECRYSTALLIZATION

1130.5- 1131.7 CALCARENITE; GRAYISH ORANGE TO MODERATE GRAY
08% POROSITY: PIN POINT VUGS, INTERGRANULAR
GRAIN TYPE: INTRACLASTS, CALCILUTITE
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO GRANULE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, DOLOMITE CEMENT
SEDIMENTARY STRUCTURES: MOTTLED, NODULAR, LAMINATED
ACCESSORY MINERALS: DOLOMITE-15%, ORGANICS-10%
OTHER FEATURES: DOLOMITIC, GRANULAR

1131.7- 1132.2 CALCARENITE; MODERATE GRAY TO GRAYISH ORANGE
08% POROSITY: INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: INTRACLASTS, CALCILUTITE
30% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, DOLOMITE CEMENT
SEDIMENTARY STRUCTURES: MOTTLED, NODULAR, LAMINATED
ACCESSORY MINERALS: DOLOMITE-20%, ORGANICS-10%
OTHER FEATURES: DOLOMITIC, GRANULAR

1132.2- 1134.5 CALCARENITE; VERY LIGHT ORANGE
04% POROSITY: INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: INTRACLASTS, CALCILUTITE
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, DOLOMITE CEMENT
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-10%
OTHER FEATURES: DOLOMITIC, GRANULAR, LOW RECRYSTALLIZATION

1134.5- 1137.3 CALCARENITE; VERY LIGHT ORANGE
10% POROSITY: FRACTURE, INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: INTRACLASTS, CALCILUTITE
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, DOLOMITE CEMENT
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-10%
OTHER FEATURES: DOLOMITIC, GRANULAR, LOW RECRYSTALLIZATION

1137.3- 1137.8 CALCARENITE; YELLOWISH GRAY TO DARK GRAYISH RED

10% POROSITY: VUGULAR, PIN POINT VUGS, INTERGRANULAR
GRAIN TYPE: INTRACLASTS, CALCILUTITE
20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: LITHOGRAPHIC TO FINE
GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: NODULAR
ACCESSORY MINERALS: CALCITE-10%
OTHER FEATURES: MEDIUM RECRYSTALLIZATION

1137.8- 1141.2 DOLOSTONE; VERY LIGHT ORANGE
08% POROSITY: FRACTURE, PIN POINT VUGS, INTERGRANULAR
10-50% ALTERED; SUBHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
GOOD INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT, CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
OTHER FEATURES: MEDIUM RECRYSTALLIZATION

1141.2- 1144 DOLOSTONE; GRAYISH ORANGE TO DARK YELLOWISH BROWN
08% POROSITY: FRACTURE, INTERGRANULAR, PIN POINT VUGS
10-50% ALTERED; SUBHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO GRANULE
POOR INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT, CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MOTTLED
ACCESSORY MINERALS: ORGANICS-20%
OTHER FEATURES: CALCAREOUS

1144 - 1144.6 DOLOSTONE; GRAYISH ORANGE TO GRAYISH BROWN
04% POROSITY: INTERGRANULAR, PIN POINT VUGS
10-50% ALTERED; SUBHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT, CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MOTTLED, NODULAR
ACCESSORY MINERALS: ORGANICS-02%
OTHER FEATURES: CALCAREOUS

1144.6- 1145 CALCARENITE; VERY LIGHT ORANGE
04% POROSITY: INTERGRANULAR, NOT OBSERVED
GRAIN TYPE: INTRACLASTS, CALCILUTITE
20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, DOLOMITE CEMENT
SEDIMENTARY STRUCTURES: MASSIVE

1145 - 1145.7 LIMESTONE; LIGHT OLIVE GRAY
02% POROSITY: PIN POINT VUGS, VUGULAR
GRAIN TYPE: CRYSTALS
GRAIN SIZE: LITHOGRAPHIC
RANGE: LITHOGRAPHIC TO LITHOGRAPHIC; GOOD INDURATION
CEMENT TYPE(S): SPARRY CALCITE CEMENT
SEDIMENTARY STRUCTURES: MASSIVE
OTHER FEATURES: CRYSTALLINE
MASSIVE HEAVEY W VUGS CRYSTALLINE.

1145.7- 1147 DOLOSTONE; GRAYISH ORANGE TO LIGHT YELLOWISH ORANGE
10% POROSITY: PIN POINT VUGS, VUGULAR, INTERGRANULAR
10-50% ALTERED; SUBHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO GRANULE
MODERATE INDURATION

CEMENT TYPE(S): DOLOMITE CEMENT, CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MOTTLED, NODULAR, LAMINATED
ACCESSORY MINERALS: ORGANICS-10%
OTHER FEATURES: GRANULAR, MEDIUM RECRYSTALLIZATION
VARIEGATED

1147 - 1149.2 CALCARENITE; VERY LIGHT ORANGE
05% POROSITY: INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: INTRACLASTS, CALCILUTITE, BIOGENIC
70% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO GRANULE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, DOLOMITE CEMENT
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-05%, ORGANICS-02%
OTHER FEATURES: SPECKLED, GRANULAR
FOSSILS: BENTHIC FORAMINIFERA
WHITE SPECKS ARE FORAMS.

1149.2- 1150.4 DOLOSTONE; VERY LIGHT ORANGE
08% POROSITY: INTERGRANULAR, PIN POINT VUGS
10-50% ALTERED; SUBHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO GRANULE
MODERATE INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT, CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MOTTLED, NODULAR, LAMINATED
ACCESSORY MINERALS: ORGANICS-02%
OTHER FEATURES: GRANULAR, CALCAREOUS

1150.4- 1150.4 DOLOSTONE; VERY LIGHT ORANGE
04% POROSITY: INTERGRANULAR; 10-50% ALTERED; SUBHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
GOOD INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT, CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE

1150.4- 1153.5 DOLOSTONE; VERY LIGHT ORANGE
08% POROSITY: FRACTURE, INTERGRANULAR, PIN POINT VUGS
10-50% ALTERED; ANHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
GOOD INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT, CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE, NODULAR
ACCESSORY MINERALS: ORGANICS-02%
OTHER FEATURES: SPECKLED, CALCAREOUS
FOSSILS: BENTHIC FORAMINIFERA

1153.5- 1158.5 DOLOSTONE; YELLOWISH GRAY
10% POROSITY: VUGULAR, PIN POINT VUGS, INTERGRANULAR
10-50% ALTERED; ANHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO GRANULE
ACCESSORY MINERALS: ORGANICS-05%
OTHER FEATURES: SPECKLED, CALCAREOUS
FOSSILS: BENTHIC FORAMINIFERA

1158.5- 1158.6 CHERT; PINKISH GRAY
POROSITY: NOT OBSERVED; GOOD INDURATION
SEDIMENTARY STRUCTURES: MASSIVE

1158.6- 1159.8 DOLOSTONE; VERY LIGHT ORANGE
08% POROSITY: PIN POINT VUGS, INTERGRANULAR, VUGULAR
10-50% ALTERED; ANHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO GRANULE

GOOD INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT, CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MOTTLED, NODULAR
ACCESSORY MINERALS: CHERT-04%
OTHER FEATURES: LOW RECRYSTALLIZATION

1159.8- 1162.2 DOLOSTONE; VERY LIGHT ORANGE
04% POROSITY: PIN POINT VUGS, INTERGRANULAR
10-50% ALTERED; ANHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO GRANULE
GOOD INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT, CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: LAMINATED
ACCESSORY MINERALS: ORGANICS-02%
OTHER FEATURES: LOW RECRYSTALLIZATION, CALCAREOUS

1162.2- 1162.5 DOLOSTONE; YELLOWISH GRAY TO VERY LIGHT ORANGE
05% POROSITY: INTERGRANULAR, PIN POINT VUGS
10-50% ALTERED; ANHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO GRANULE
MODERATE INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT, CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MOTTLED, NODULAR
ACCESSORY MINERALS: CALCILUTITE-05%
OTHER FEATURES: CALCAREOUS

1162.5- 1164 DOLOSTONE; VERY LIGHT ORANGE
05% POROSITY: INTERGRANULAR, FRACTURE; 10-50% ALTERED
ANHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO GRANULE
POOR INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT, CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: CALCILUTITE-05%
OTHER FEATURES: CALCAREOUS
SLICKEN SIDES @ BASE.

1164 - 1166.8 DOLOSTONE; VERY LIGHT ORANGE
08% POROSITY: PIN POINT VUGS, INTERGRANULAR, FRACTURE
10-50% ALTERED; ANHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
GOOD INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
SEDIMENTARY STRUCTURES: MASSIVE
OTHER FEATURES: LOW RECRYSTALLIZATION
SLICKEN SIDES @ BASE.

1166.8- 1167.8 DOLOSTONE; YELLOWISH GRAY TO VERY LIGHT ORANGE
07% POROSITY: INTERGRANULAR, PIN POINT VUGS, FRACTURE
10-50% ALTERED; ANHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO GRANULE
GOOD INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
SEDIMENTARY STRUCTURES: NODULAR
ACCESSORY MINERALS: ORGANICS-02%
OTHER FEATURES: LOW RECRYSTALLIZATION
INTRACLASTS OF LIGHTER DS IN DARKER MATRIX.

1167.8- 1168.4 DOLOSTONE; YELLOWISH GRAY TO VERY LIGHT ORANGE
10% POROSITY: PIN POINT VUGS, INTERGRANULAR
10-50% ALTERED; ANHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO GRANULE
GOOD INDURATION

CEMENT TYPE(S): DOLOMITE CEMENT
SEDIMENTARY STRUCTURES: LAMINATED
ACCESSORY MINERALS: ORGANICS-05%
OTHER FEATURES: LOW RECRYSTALLIZATION

1168.4- 1169 DOLOSTONE; VERY LIGHT ORANGE
04% POROSITY: PIN POINT VUGS, INTERGRANULAR
10-50% ALTERED; ANHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
GOOD INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: ORGANICS-02%
OTHER FEATURES: LOW RECRYSTALLIZATION

1169 - 1173 DOLOSTONE; VERY LIGHT ORANGE
10% POROSITY: FRACTURE, PIN POINT VUGS, INTERGRANULAR
10-50% ALTERED; ANHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT, CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: ORGANICS-02%
OTHER FEATURES: LOW RECRYSTALLIZATION, CALCAREOUS

1173 - 1173.5 LIMESTONE; VERY LIGHT ORANGE TO LIGHT GRAY
10% POROSITY: VUGULAR, PIN POINT VUGS, INTERGRANULAR
GRAIN TYPE: CRYSTALS, INTRACLASTS, CALCILUTITE
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO GRANULE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, DOLOMITE CEMENT
SEDIMENTARY STRUCTURES: LAMINATED, INTERBEDDED
ACCESSORY MINERALS: ORGANICS-10%, DOLOMITE-10%
OTHER FEATURES: MEDIUM RECRYSTALLIZATION, DOLOMITIC

1173.5- 1174 CALCARENITE; YELLOWISH GRAY
08% POROSITY: FRACTURE, PIN POINT VUGS, INTERGRANULAR
GRAIN TYPE: CALCILUTITE, INTRACLASTS
60% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO GRANULE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, DOLOMITE CEMENT
SEDIMENTARY STRUCTURES: LAMINATED
ACCESSORY MINERALS: ORGANICS-10%, DOLOMITE-10%
OTHER FEATURES: LOW RECRYSTALLIZATION, DOLOMITIC

1174 - 1179 CALCARENITE; VERY LIGHT ORANGE
06% POROSITY: PIN POINT VUGS, INTERGRANULAR, FRACTURE
GRAIN TYPE: CALCILUTITE, INTRACLASTS
30% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, DOLOMITE CEMENT
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: ORGANICS-02%
OTHER FEATURES: LOW RECRYSTALLIZATION, DOLOMITIC
FOSSILS: ECHINOID

1179 - 1182.8 DOLOSTONE; VERY LIGHT ORANGE
06% POROSITY: PIN POINT VUGS, FRACTURE, INTERGRANULAR
10-50% ALTERED; ANHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE

MODERATE INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT, CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
OTHER FEATURES: CALCAREOUS
FOSSILS: BENTHIC FORAMINIFERA

1182.8- 1184.1 DOLOSTONE; PINKISH GRAY TO YELLOWISH GRAY
15% POROSITY: VUGULAR, PIN POINT VUGS; 50-90% ALTERED
SUBHEDRAL
GRAIN SIZE: MEDIUM; RANGE: LITHOGRAPHIC TO GRANULE
MODERATE INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
SEDIMENTARY STRUCTURES: NODULAR
OTHER FEATURES: HIGH RECRYSTALLIZATION, GRANULAR CRYSTALLINE

1184.1- 1185 DOLOSTONE; VERY LIGHT ORANGE
08% POROSITY: INTERGRANULAR, PIN POINT VUGS, FRACTURE
10-50% ALTERED; ANHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
SEDIMENTARY STRUCTURES: STREAKED, NODULAR
ACCESSORY MINERALS: ORGANICS-02%
OTHER FEATURES: LOW RECRYSTALLIZATION

1185 - 1185.9 DOLOSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
10% POROSITY: VUGULAR, INTERGRANULAR, FRACTURE
10-50% ALTERED; ANHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO GRANULE
GOOD INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
SEDIMENTARY STRUCTURES: LAMINATED, INTERBEDDED
ACCESSORY MINERALS: ORGANICS-04%
OTHER FEATURES: LOW RECRYSTALLIZATION

1185.9- 1186.2 DOLOSTONE; VERY LIGHT ORANGE
04% POROSITY: INTERGRANULAR, PIN POINT VUGS, FRACTURE
10-50% ALTERED; ANHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
SEDIMENTARY STRUCTURES: MASSIVE

1186.2- 1186.5 DOLOSTONE; VERY LIGHT ORANGE TO MODERATE LIGHT GRAY
20% POROSITY: MOLDIC, VUGULAR; 10-50% ALTERED; ANHEDRAL
GRAIN SIZE: MEDIUM; RANGE: LITHOGRAPHIC TO GRANULE
POOR INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
SEDIMENTARY STRUCTURES: BIOTURBATED
ACCESSORY MINERALS: ORGANICS-05%
OTHER FEATURES: MEDIUM RECRYSTALLIZATION, FOSSILIFEROUS
FOSSILS: MOLLUSKS

1186.5- 1194 DOLOSTONE; VERY LIGHT ORANGE TO VERY LIGHT GRAY
02% POROSITY, NOT OBSERVED, PIN POINT VUGS; 0-10% ALTERED
ANHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
GOOD INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT, CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MOTTLED, MASSIVE
ACCESSORY MINERALS: ORGANICS-02%
OTHER FEATURES: VARIEGATED

1194 - 1196 CALCARENITE; PINKISH GRAY TO WHITE
02% POROSITY, NOT OBSERVED, PIN POINT VUGS
GRAIN TYPE: CALCILUTITE, INTRACLASTS
25% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE, MOTTLED
ACCESSORY MINERALS: ORGANICS-02%
OTHER FEATURES: DOLOMITIC, CHALKY

1196 - 1196.8 CALCARENITE; YELLOWISH GRAY TO LIGHT GRAY
08% POROSITY: INTERGRANULAR, PIN POINT VUGS, VUGULAR
GRAIN TYPE: INTRACLASTS, CALCILUTITE
75% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO GRANULE
GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, DOLOMITE CEMENT
SEDIMENTARY STRUCTURES: MOTTLED, NODULAR
ACCESSORY MINERALS: DOLOMITE-40%, ORGANICS-02%
OTHER FEATURES: DOLOMITIC, LOW RECRYSTALLIZATION

1196.8- 1204 CALCARENITE; VERY LIGHT ORANGE TO PINKISH GRAY
04% POROSITY: PIN POINT VUGS, INTERGRANULAR
GRAIN TYPE: CALCILUTITE, INTRACLASTS
20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: ORGANICS-02%
OTHER FEATURES: CHALKY

1204 - 1204.7 CALCARENITE; VERY LIGHT ORANGE TO GRAYISH BROWN
05% POROSITY: INTERGRANULAR, PIN POINT VUGS, FRACTURE
GRAIN TYPE: CALCILUTITE, INTRACLASTS
30% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, DOLOMITE CEMENT
SEDIMENTARY STRUCTURES: LAMINATED
ACCESSORY MINERALS: ORGANICS-02%, DOLOMITE-02%
OTHER FEATURES: LOW RECRYSTALLIZATION

1204.7- 1209 CALCARENITE; GRAYISH BROWN
04% POROSITY: INTERGRANULAR, PIN POINT VUGS
GRAIN TYPE: INTRACLASTS, CALCILUTITE
70% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: MEDIUM; RANGE: LITHOGRAPHIC TO GRANULE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, DOLOMITE CEMENT
SEDIMENTARY STRUCTURES: NODULAR
ACCESSORY MINERALS: DOLOMITE-10%, ORGANICS-02%
OTHER FEATURES: LOW RECRYSTALLIZATION
FOSSILS: ECHINOID

1209 - 1213.3 DOLOSTONE; GRAYISH BROWN
06% POROSITY: INTERGRANULAR, PIN POINT VUGS
10-50% ALTERED; ANHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO GRANULE
MODERATE INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT, CALCILUTITE MATRIX

ACCESSORY MINERALS: ORGANICS-01%
OTHER FEATURES: LOW RECRYSTALLIZATION, GRANULAR
WAFERS.

1213.3- 1214.7 DOLOSTONE; GRAYISH BROWN
04% POROSITY: INTERGRANULAR, PIN POINT VUGS
10-50% ALTERED; ANHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO GRANULE
GOOD INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT, CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: ORGANICS-01%
OTHER FEATURES: LOW RECRYSTALLIZATION, GRANULAR

1214.7- 1220.2 DOLOSTONE; VERY LIGHT ORANGE
05% POROSITY: PIN POINT VUGS, INTERGRANULAR
10-50% ALTERED; ANHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO GRANULE
GOOD INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
SEDIMENTARY STRUCTURES: MASSIVE
OTHER FEATURES: MEDIUM RECRYSTALLIZATION, GRANULAR

1220.2- 1223.8 DOLOSTONE; VERY LIGHT ORANGE
02% POROSITY: INTERGRANULAR, PIN POINT VUGS
10-50% ALTERED; ANHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: ORGANICS-01%
OTHER FEATURES: LOW RECRYSTALLIZATION

1223.8- 1227.5 DOLOSTONE; GRAYISH BROWN
10% POROSITY: FRACTURE, PIN POINT VUGS; 10-50% ALTERED
SUBHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
GOOD INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: ORGANICS-02%
OTHER FEATURES: MEDIUM RECRYSTALLIZATION
FOSSILS: ECHINOID, MOLLUSKS, FOSSIL MOLDS
BENTHIC FORAMINIFERA
TOP OF HARD FRACTURED DS.

1227.5- 1229.1 DOLOSTONE; VERY LIGHT ORANGE
05% POROSITY: FRACTURE, PIN POINT VUGS; 10-50% ALTERED
ANHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO GRANULE
GOOD INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: ORGANICS-01%
OTHER FEATURES: LOW RECRYSTALLIZATION

1229.1- 1229.4 DOLOSTONE; VERY LIGHT ORANGE TO LIGHT GRAYISH GREEN
02% POROSITY: PIN POINT VUGS, INTERGRANULAR, FRACTURE
10-50% ALTERED; ANHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
GOOD INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
SEDIMENTARY STRUCTURES: MASSIVE

OTHER FEATURES: LOW RECRYSTALLIZATION
GREEN COATING ALONG FRACTURE?

1229.4- 1235.3 DOLOSTONE; VERY LIGHT ORANGE
04% POROSITY: FRACTURE, INTERGRANULAR, PIN POINT VUGS
10-50% ALTERED; ANHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO GRANULE
GOOD INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: ORGANICS-02%
OTHER FEATURES: GRANULAR, LOW RECRYSTALLIZATION

1235.3- 1242.2 DOLOSTONE; GRAYISH ORANGE
15% POROSITY: MOLDIC, VUGULAR, INTERGRANULAR
50-90% ALTERED; SUBHEDRAL
GRAIN SIZE: MEDIUM; RANGE: LITHOGRAPHIC TO GRANULE
MODERATE INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: ORGANICS-02%
OTHER FEATURES: GRANULAR, HIGH RECRYSTALLIZATION
BROWN ANHYDRITE CRYSTALS, SUCROSIC
FOSSILS: BENTHIC FORAMINIFERA, FOSSIL MOLDS

1242.2- 1244 DOLOSTONE; GRAYISH ORANGE
10% POROSITY: FRACTURE, MOLDIC, PIN POINT VUGS
50-90% ALTERED; SUBHEDRAL
GRAIN SIZE: MEDIUM; RANGE: LITHOGRAPHIC TO GRANULE
GOOD INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
SEDIMENTARY STRUCTURES: MASSIVE
OTHER FEATURES: GRANULAR, HIGH RECRYSTALLIZATION
BROWN ANHYDRITE CRYSTALS
FOSSILS: BENTHIC FORAMINIFERA, FOSSIL MOLDS
TOTAL DEPTH OF CORE. EXPLORATORY HOLE CUTTINGS STARTING HERE. CUTTINGS WERE COLLECTED FOR 1230FT. AND 1240FT. BUT CORE DESCRIPTION IS USED HERE.

1244 - 1260 DOLOSTONE; YELLOWISH GRAY TO VERY LIGHT ORANGE
15% POROSITY: INTERGRANULAR; 50-90% ALTERED; EUHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO MEDIUM
MODERATE INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
ACCESSORY MINERALS: CALCARENITE-02%
OTHER FEATURES: SUCROSIC, CRYSTALLINE
FOSSILS: BENTHIC FORAMINIFERA

1260 - 1270 DOLOSTONE; YELLOWISH GRAY TO VERY LIGHT ORANGE
10% POROSITY: INTERGRANULAR, FRACTURE; 50-90% ALTERED
SUBHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
GOOD INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
ACCESSORY MINERALS: CALCARENITE-05%
OTHER FEATURES: SPLINTERY
FOSSILS: BENTHIC FORAMINIFERA

1270 - 1280 DOLOSTONE; YELLOWISH GRAY TO VERY LIGHT ORANGE
15% POROSITY: INTERGRANULAR; 50-90% ALTERED; EUHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO MEDIUM
MODERATE INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT

ACCESSORY MINERALS: CALCARENITE-03%
OTHER FEATURES: SUCROSIC, CRYSTALLINE
FOSSILS: BENTHIC FORAMINIFERA

1280 - 1310 DOLOSTONE; YELLOWISH GRAY TO VERY LIGHT ORANGE
10% POROSITY: INTERGRANULAR, FRACTURE; 50-90% ALTERED
SUBHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
ACCESSORY MINERALS: CALCARENITE-05%
OTHER FEATURES: SPLINTERY
FOSSILS: BENTHIC FORAMINIFERA

1310 - 1330 DOLOSTONE; YELLOWISH GRAY TO VERY LIGHT ORANGE
05% POROSITY: INTERGRANULAR; 10-50% ALTERED; SUBHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT, CALCILUTITE MATRIX
ACCESSORY MINERALS: CALCARENITE-25%
OTHER FEATURES: SPLINTERY, CALCAREOUS
FOSSILS: BENTHIC FORAMINIFERA
NUMMULITES. ABUNDANT NUMMULITES IN PREVIOUS SAMPLES (CAVINGS).

1330 - 1340 DOLOSTONE; YELLOWISH GRAY TO VERY LIGHT ORANGE
10% POROSITY: INTERGRANULAR, FRACTURE; 50-90% ALTERED
SUBHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
GOOD INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
ACCESSORY MINERALS: CALCARENITE-02%
OTHER FEATURES: SPLINTERY, CRYSTALLINE
FOSSILS: BENTHIC FORAMINIFERA
1340-1350 MOSTLY FALLIN CEMENT,DS+LS.

1340 - 1380 DOLOSTONE; YELLOWISH GRAY TO VERY LIGHT ORANGE
10% POROSITY: INTERGRANULAR, FRACTURE; 50-90% ALTERED
SUBHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
ACCESSORY MINERALS: CALCARENITE-05%
OTHER FEATURES: SPLINTERY, CRYSTALLINE
FOSSILS: BENTHIC FORAMINIFERA

1380 - 1390 CALCARENITE; VERY LIGHT ORANGE TO YELLOWISH GRAY
05% POROSITY: INTERGRANULAR
GRAIN TYPE: INTRACLASTS, BIOGENIC, CALCILUTITE
30% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: DOLOMITE-10%
OTHER FEATURES: SPLINTERY
FOSSILS: BENTHIC FORAMINIFERA

1390 - 1400 CALCARENITE; VERY LIGHT ORANGE TO YELLOWISH GRAY
05% POROSITY: INTERGRANULAR
GRAIN TYPE: INTRACLASTS, BIOGENIC, CALCILUTITE
50% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION

CEMENT TYPE(S): CALCILUTITE MATRIX, DOLOMITE CEMENT
ACCESSORY MINERALS: DOLOMITE-25%
OTHER FEATURES: SPLINTERY, CRYSTALLINE
FOSSILS: BENTHIC FORAMINIFERA

1400 - 1410 DOLOSTONE; YELLOWISH GRAY TO VERY LIGHT ORANGE
05% POROSITY: INTERGRANULAR, FRACTURE; 50-90% ALTERED
SUBHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
ACCESSORY MINERALS: CALCARENITE-15%
OTHER FEATURES: SPLINTERY, CRYSTALLINE
FOSSILS: BENTHIC FORAMINIFERA

1410 - 1430 DOLOSTONE; YELLOWISH GRAY TO VERY LIGHT ORANGE
05% POROSITY: INTERGRANULAR, FRACTURE; 50-90% ALTERED
SUBHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
GOOD INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
ACCESSORY MINERALS: CALCARENITE-05%
OTHER FEATURES: SPLINTERY, CRYSTALLINE
FOSSILS: BENTHIC FORAMINIFERA

1430 - 1440 DOLOSTONE; VERY LIGHT ORANGE TO GRAYISH ORANGE
05% POROSITY: INTERGRANULAR, FRACTURE; 50-90% ALTERED
ANHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
ACCESSORY MINERALS: CALCARENITE-25%
OTHER FEATURES: SPLINTERY
FOSSILS: BENTHIC FORAMINIFERA

1440 - 1460 DOLOSTONE; YELLOWISH GRAY TO VERY LIGHT ORANGE
05% POROSITY: INTERGRANULAR, FRACTURE; 50-90% ALTERED
SUBHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
GOOD INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
ACCESSORY MINERALS: CALCARENITE-05%
OTHER FEATURES: SPLINTERY, CRYSTALLINE
FOSSILS: BENTHIC FORAMINIFERA

1460 - 1470 DOLOSTONE; YELLOWISH GRAY TO VERY LIGHT ORANGE
07% POROSITY: INTERGRANULAR, FRACTURE; 50-90% ALTERED
ANHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT, CALCILUTITE MATRIX
ACCESSORY MINERALS: CALCARENITE-20%
OTHER FEATURES: SPLINTERY
FOSSILS: BENTHIC FORAMINIFERA

1470 - 1500 DOLOSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
08% POROSITY: FRACTURE, INTERGRANULAR; 50-90% ALTERED
SUBHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
GOOD INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
ACCESSORY MINERALS: CALCARENITE-05%
OTHER FEATURES: SPLINTERY

FOSSILS: BENTHIC FORAMINIFERA

1500 - 1510 DOLOSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
15% POROSITY: VUGULAR, MOLDIC, INTERGRANULAR
50-90% ALTERED; SUBHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO MEDIUM
GOOD INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
ACCESSORY MINERALS: CALCARENITE-02%
OTHER FEATURES: CRYSTALLINE
FOSSILS: BENTHIC FORAMINIFERA

1510 - 1530 DOLOSTONE; YELLOWISH GRAY TO VERY LIGHT ORANGE
05% POROSITY: INTERGRANULAR, FRACTURE; 50-90% ALTERED
ANHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
GOOD INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
ACCESSORY MINERALS: CALCARENITE-02%
OTHER FEATURES: CRYSTALLINE
FOSSILS: BENTHIC FORAMINIFERA

1530 - 1550 DOLOSTONE; YELLOWISH GRAY TO VERY LIGHT ORANGE
05% POROSITY: INTERGRANULAR, FRACTURE; 50-90% ALTERED
ANHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
GOOD INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
ACCESSORY MINERALS: CALCARENITE-02%
OTHER FEATURES: SPLINTERY, CRYSTALLINE
FOSSILS: BENTHIC FORAMINIFERA

1550 - 1570 DOLOSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
04% POROSITY: INTERGRANULAR, FRACTURE; 50-90% ALTERED
ANHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
GOOD INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: CALCARENITE-02%
OTHER FEATURES: CRYSTALLINE, SPLINTERY
FOSSILS: BENTHIC FORAMINIFERA

1570 - 1580 CALCARENITE; VERY LIGHT ORANGE
04% POROSITY: INTERGRANULAR, FRACTURE
GRAIN TYPE: INTRACLASTS, CALCILUTITE
30% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, DOLOMITE CEMENT
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-20%
OTHER FEATURES: DOLOMITIC, SPLINTERY
FOSSILS: BENTHIC FORAMINIFERA

1580 - 1610 DOLOSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
08% POROSITY: INTERGRANULAR, VUGULAR, FRACTURE
50-90% ALTERED; SUBHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO MEDIUM
MODERATE INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT, CALCILUTITE MATRIX
ACCESSORY MINERALS: CALCARENITE-20%
OTHER FEATURES: CALCAREOUS, SPLINTERY

FOSSILS: BENTHIC FORAMINIFERA

1610 - 1620 CALCARENITE; VERY LIGHT ORANGE
05% POROSITY: INTERGRANULAR, FRACTURE
GRAIN TYPE: INTRACLASTS, CALCILUTITE
30% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, DOLOMITE CEMENT
SEDIMENTARY STRUCTURES: MASSIVE
ACCESSORY MINERALS: DOLOMITE-20%
OTHER FEATURES: DOLOMITIC, SPLINTERY
FOSSILS: BENTHIC FORAMINIFERA

1620 - 1650 DOLOSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
08% POROSITY: PIN POINT VUGS, INTERGRANULAR, NOT OBSERVED
50-90% ALTERED; SUBHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT, CALCILUTITE MATRIX
ACCESSORY MINERALS: CALCARENITE-10%
OTHER FEATURES: CALCAREOUS, SPLINTERY
FOSSILS: BENTHIC FORAMINIFERA

1650 - 1660 DOLOSTONE; YELLOWISH GRAY TO VERY LIGHT ORANGE
12% POROSITY: VUGULAR, PIN POINT VUGS, INTERGRANULAR
50-90% ALTERED; EUHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
ACCESSORY MINERALS: CALCARENITE-02%, GYPSUM-02%
OTHER FEATURES: CRYSTALLINE
FOSSILS: BENTHIC FORAMINIFERA

1660 - 1680 DOLOSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
05% POROSITY: INTERGRANULAR, FRACTURE, PIN POINT VUGS
50-90% ALTERED; SUBHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
ACCESSORY MINERALS: CALCARENITE-02%, GYPSUM-01%
FOSSILS: BENTHIC FORAMINIFERA

1680 - 1690 DOLOSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
05% POROSITY: INTERGRANULAR, FRACTURE; 50-90% ALTERED
SUBHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
ACCESSORY MINERALS: CALCARENITE-02%
OTHER FEATURES: SPLINTERY, PLATY
FOSSILS: BENTHIC FORAMINIFERA

1690 - 1700 DOLOSTONE; YELLOWISH GRAY TO VERY LIGHT ORANGE
25% POROSITY: VUGULAR, PIN POINT VUGS, INTERGRANULAR
90-100% ALTERED; EUHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
ACCESSORY MINERALS: CALCARENITE-01%, GYPSUM-02%
OTHER FEATURES: HIGH RECRYSTALLIZATION, CRYSTALLINE
FOSSILS: BENTHIC FORAMINIFERA

1700 - 1720 DOLOSTONE; YELLOWISH GRAY TO VERY LIGHT ORANGE
08% POROSITY: INTERGRANULAR, FRACTURE, PIN POINT VUGS
50-90% ALTERED; SUBHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT, CALCILUTITE MATRIX
ACCESSORY MINERALS: CALCARENITE-10%
OTHER FEATURES: SPLINTERY, PLATY
FOSSILS: BENTHIC FORAMINIFERA

1720 - 1740 DOLOSTONE; YELLOWISH GRAY TO VERY LIGHT ORANGE
10% POROSITY: INTERGRANULAR, VUGULAR, PIN POINT VUGS
50-90% ALTERED; SUBHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT, CALCILUTITE MATRIX
ACCESSORY MINERALS: CALCARENITE-04%
OTHER FEATURES: SPLINTERY, PLATY, CRYSTALLINE
FOSSILS: BENTHIC FORAMINIFERA

1740 - 1750 DOLOSTONE; YELLOWISH GRAY TO VERY LIGHT ORANGE
08% POROSITY: INTERGRANULAR, PIN POINT VUGS, FRACTURE
50-90% ALTERED; SUBHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
ACCESSORY MINERALS: CALCARENITE-04%, GYPSUM-02%
OTHER FEATURES: SPLINTERY, PLATY, CRYSTALLINE
FOSSILS: BENTHIC FORAMINIFERA

1750 - 1760 DOLOSTONE; YELLOWISH GRAY TO VERY LIGHT ORANGE
05% POROSITY: INTERGRANULAR, FRACTURE; 50-90% ALTERED
SUBHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
ACCESSORY MINERALS: CALCARENITE-02%, GYPSUM-04%
OTHER FEATURES: SPLINTERY, PLATY, CRYSTALLINE
FOSSILS: BENTHIC FORAMINIFERA

1760 - 1770 DOLOSTONE; YELLOWISH GRAY TO VERY LIGHT ORANGE
04% POROSITY: INTERGRANULAR; 50-90% ALTERED; SUBHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
POOR INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
ACCESSORY MINERALS: CALCARENITE-02%
FOSSILS: BENTHIC FORAMINIFERA

1770 - 1800 DOLOSTONE; DARK YELLOWISH BROWN TO WHITE
08% POROSITY: INTERGRANULAR, VUGULAR, PIN POINT VUGS
50-90% ALTERED; SUBHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
ACCESSORY MINERALS: CALCARENITE-02%, GYPSUM-10%
OTHER FEATURES: HIGH RECRYSTALLIZATION, PLATY, CRYSTALLINE
FOSSILS: BENTHIC FORAMINIFERA
FIRST NON IN-FILLING GYPSUM.

1800 - 1810 DOLOSTONE; DARK YELLOWISH BROWN TO VERY LIGHT ORANGE
05% POROSITY: INTERGRANULAR, PIN POINT VUGS
50-90% ALTERED; SUBHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE

POOR INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
ACCESSORY MINERALS: CALCARENITE-02%, GYPSUM-05%
OTHER FEATURES: HIGH RECRYSTALLIZATION, CRYSTALLINE, PLATY
FOSSILS: BENTHIC FORAMINIFERA

1810 - 1830 DOLOSTONE; DARK YELLOWISH BROWN TO WHITE
15% POROSITY: VUGULAR, PIN POINT VUGS, INTERGRANULAR
90-100% ALTERED; EUHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
MODERATE INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
ACCESSORY MINERALS: CALCARENITE-02%, GYPSUM-10%
OTHER FEATURES: HIGH RECRYSTALLIZATION, CRYSTALLINE, PLATY
FOSSILS: BENTHIC FORAMINIFERA

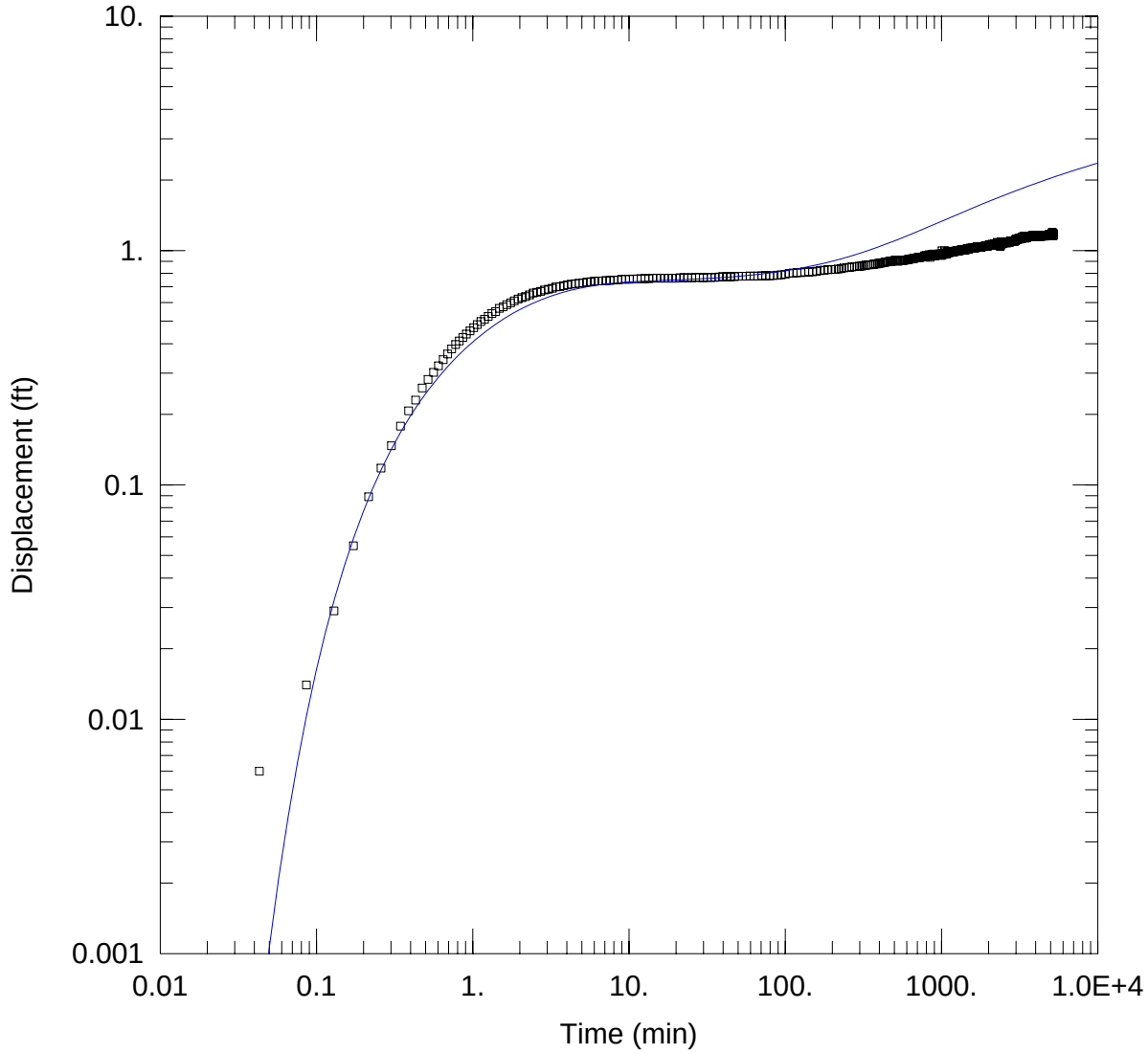
1830 - 1850 DOLOSTONE; GRAYISH BROWN TO WHITE
05% POROSITY: PIN POINT VUGS, INTERCRYSTALLINE
50-90% ALTERED; SUBHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
GOOD INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
ACCESSORY MINERALS: CALCARENITE-02%, GYPSUM-15%
OTHER FEATURES: HIGH RECRYSTALLIZATION, CRYSTALLINE, PLATY
FOSSILS: BENTHIC FORAMINIFERA

1850 - 1860 DOLOSTONE; GRAYISH BROWN TO WHITE
02% POROSITY: PIN POINT VUGS, INTERCRYSTALLINE
50-90% ALTERED; SUBHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
GOOD INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
ACCESSORY MINERALS: GYPSUM-30%, CALCARENITE-01%
OTHER FEATURES: HIGH RECRYSTALLIZATION, CRYSTALLINE, PLATY
FOSSILS: BENTHIC FORAMINIFERA

1860 - 1870 DOLOSTONE; VERY LIGHT ORANGE TO GRAYISH BROWN
05% POROSITY: PIN POINT VUGS, INTERCRYSTALLINE, VUGULAR
50-90% ALTERED; SUBHEDRAL
GRAIN SIZE: FINE; RANGE: LITHOGRAPHIC TO FINE
GOOD INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
ACCESSORY MINERALS: GYPSUM-10%, CALCARENITE-03%
OTHER FEATURES: HIGH RECRYSTALLIZATION, CRYSTALLINE, PLATY
FOSSILS: BENTHIC FORAMINIFERA

1870 TOTAL DEPTH

APPENDIX B.
Raw data, Hydrographs, and Curve-Match Analysis for the Surificial Aquifer System APT



R29A - SURFICIAL APT DRAWDOWN PHASE (PERM SAS)

Data Set: D:\Jerry\Projects\ROMP_29a\APTs\SAS\Surficial DD_jlmfinal.aqt
Date: 07/11/05 Time: 09:10:08

PROJECT INFORMATION

Company: SWFWMD
Project: R29A
Location: Sebring
Test Well: SAS APT
Test Date: 11/2002

AQUIFER DATA

Saturated Thickness: 165. ft

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
Perm SAS Mon	0	0

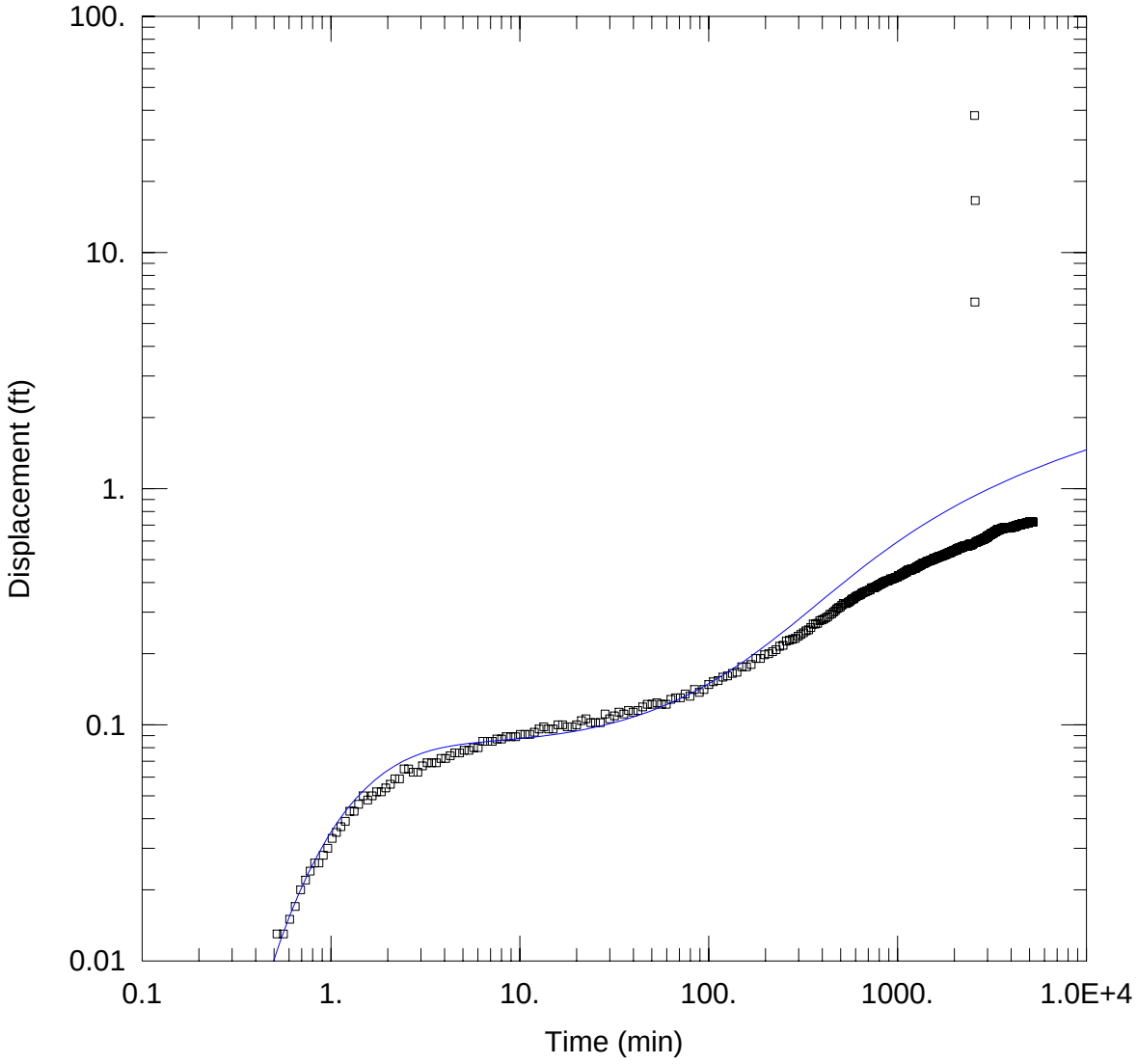
Observation Wells

Well Name	X (ft)	Y (ft)
▫ Perm SAS Mon	40	0

SOLUTION

Aquifer Model: Unconfined
Solution Method: Neuman

T = 7581.8 ft^2/day
S = 0.002862
Sy = 0.5
ß = 0.1



R29A - SAS APT DRAWDOWN PHASE (SAS WSW)

Data Set: D:\Jerry\Projects\ROMP_29a\APTs\SAS\Surficial DDwsw_jlmfinal.aqt
Date: 07/11/05 Time: 09:41:40

PROJECT INFORMATION

Company: SWFWMD
Project: R29A
Location: Sebring
Test Well: SAS APT
Test Date: 11/2002

AQUIFER DATA

Saturated Thickness: 165. ft

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
SAS APT	0	0

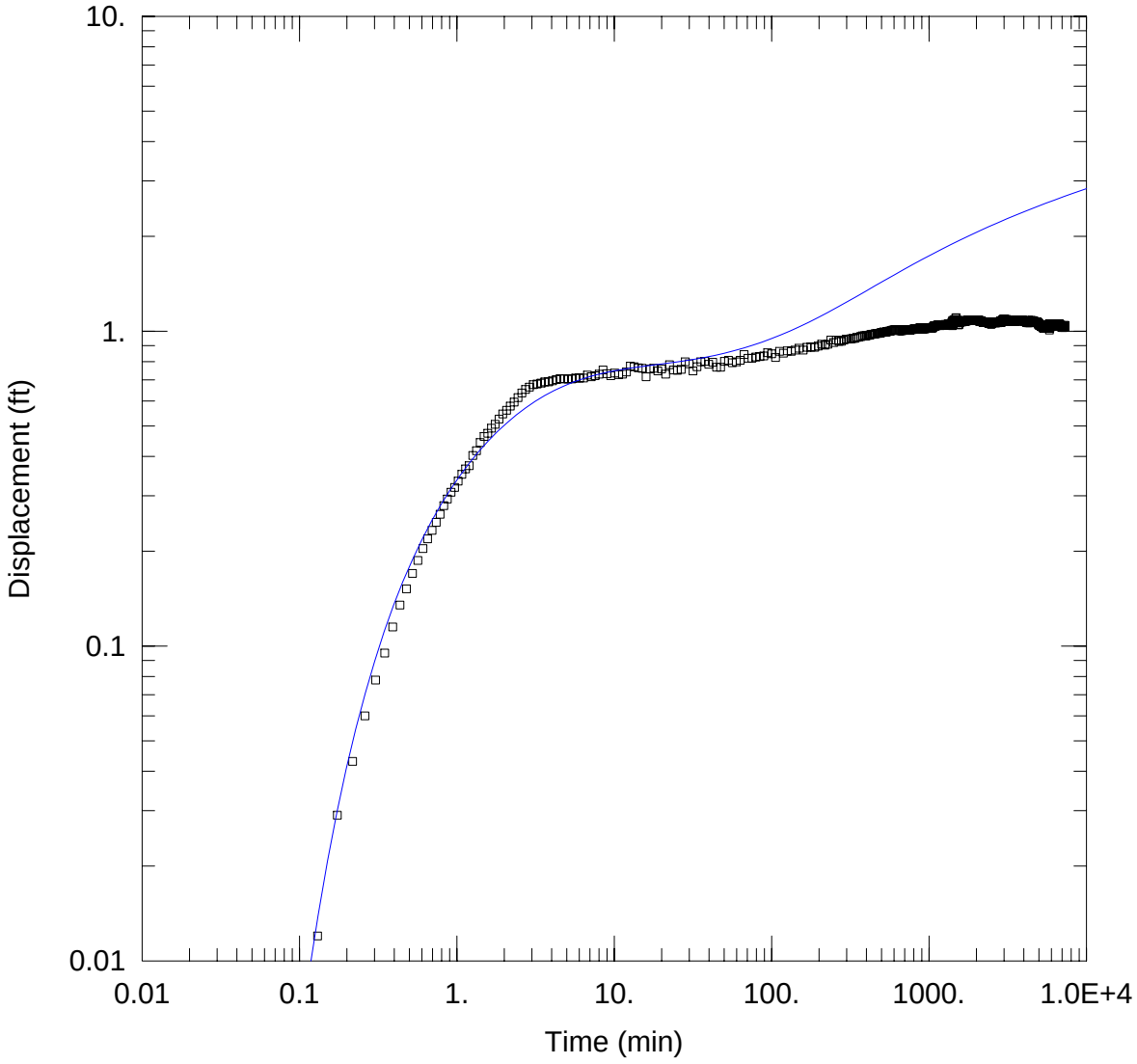
Observation Wells

Well Name	X (ft)	Y (ft)
▫ SAS WSW	85	0

SOLUTION

Aquifer Model: Unconfined
Solution Method: Neuman

T = 8999. ft^2/day
Sy = 0.5
S = 0.003432
ß = 1.197



R29A - SAS APT RECOVERY PHASE (PERM SAS)

Data Set: D:\Jerry\Projects\ROMP_29a\APTs\SAS\Surficial REC_jlmfinal.aqt
Date: 07/11/05 Time: 09:42:27

PROJECT INFORMATION

Company: SWFWMD
Project: R29A
Location: Sebring
Test Well: SAS APT
Test Date: 11/2002

AQUIFER DATA

Saturated Thickness: 165. ft

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
SAS APT	0	0

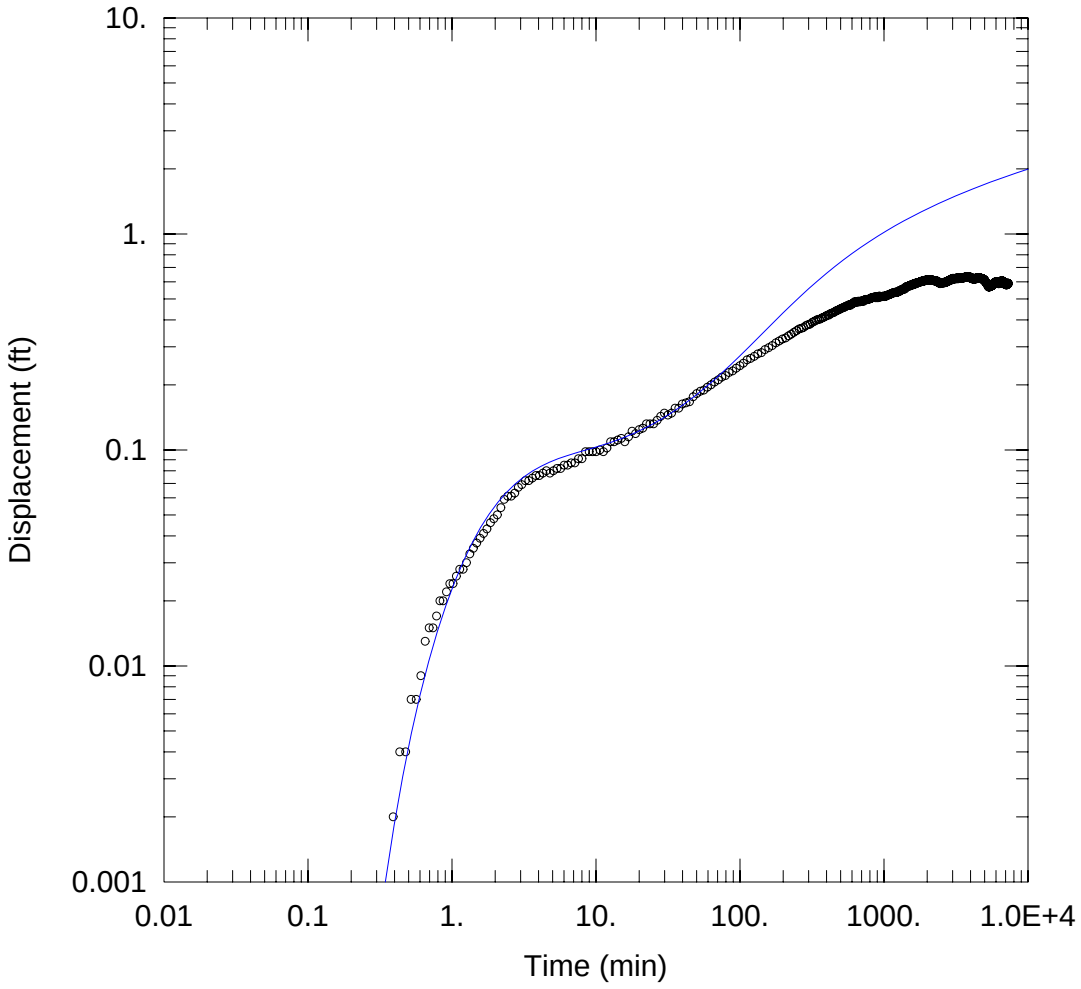
Observation Wells

Well Name	X (ft)	Y (ft)
▫ Perm SAS Mon	40	0

SOLUTION

Aquifer Model: Unconfined
Solution Method: Neuman

T = 7405.1 ft^2/day
S = 0.003898
Sy = 0.2031
ß = 0.1



R29A - SAS APT RECOVERY PHASE (SAS WSW)

Data Set: D:\Jerry\Projects\ROMP_29a\APTs\SAS\Surficial_REC wswfinal.aqt
Date: 07/11/05 Time: 09:42:07

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring, Highlands County
Test Well: SAS APT well
Test Date: 11/4/2002

AQUIFER DATA

Saturated Thickness: 165. ft

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
SAS APT	0	0

Observation Wells

Well Name	X (ft)	Y (ft)
◦ SAS WSW	85	0

SOLUTION

Aquifer Model: Unconfined
Solution Method: Neuman

T = 8218.2 ft^2/day
Sy = 0.1725
S = 0.004367
ß = 1.154

Estimating Aquifer Transmissivity and Hydraulic Conductivity from Specific Capacity Data

$$T = \frac{Q}{(h_o - h)} \frac{2.3}{4\pi} \log \frac{2.25Tt}{r^2 S}$$

where

$\frac{Q}{(h_o - h)}$	is specific Capacity of the well (L^2/T)
t	is the period of pumping (T)
r	is the radius of the pumping well (L)
T	is the aquifer transmissivity (L^2/T)
S	is the aquifer storativity (d'less)

INPUTS

$\frac{Q}{(h_o - h)}$	=	40.4	gpm/ft
t	=	1200	min.
r	=	6	in.
T_i	=	2,500	ft^2/d - INITIAL ESTIMATE
S	=	0.2	d'less - ESTIMATE
b	=	165	ft

OUTPUTS

				Discrepancy
T_1	=	7,080	ft^2/d	-64.69%
T_2	=	7,724	ft^2/d	-8.34%
T_3	=	7,778	ft^2/d	-0.69%
T_4	=	**7,782**	ft^2/d	-0.06%
T_4	=	**58,219**	gpd/ft	
K_4	=	**47.2**	ft/d	

Instructions: Complete the "Inputs" using the indicated units. You must enter an initial estimate for the transmissivity and an estimate for storativity. The calculated transmissivity and hydraulic conductivity are in the "Outputs" section indicted by the subscript 4.

Note: Discrepancy is the ratio of the T_i and T_4. This method may be referred to Herr's Method.

Assumptions: Theis assumptions & pumped well 100% efficient.

Reference: Theis 1963

Storage: well-confined -> 0.00001; semi-confined -> 0.0001; poorly-confined -> 0.001; and unconfined -> 0.01 - 0.1

Comments: SAS well specific capacity from the APT. Assumed a 50% well efficiency so the specific capacity was doubled. Assuming 100% efficiency the specific capacity was 20.2 gpm/ft of drawdown.

Created by JL Mallams - June 25, 2003

PUMPING WELL ID: R29A SAS APT

Local ID: R29A

Date: 11/4/2002

Time: 16:00

INPUT

Construction:		
Casing dia. (d_c)	12	Inch
Annulus dia. (d_w)	12	Inch
Screen Length (L)	165	Feet
Depths to:		
Initial Depth to Water	30	Feet
Top of Aquifer	30	Feet
Base of Aquifer	195	Feet
Annular Fill:		
across screen -- Coarse Sand		
above screen -- Cement		
Aquifer Material -- Medium Sand		
FLOW RATE	232	GPM

COMPUTED

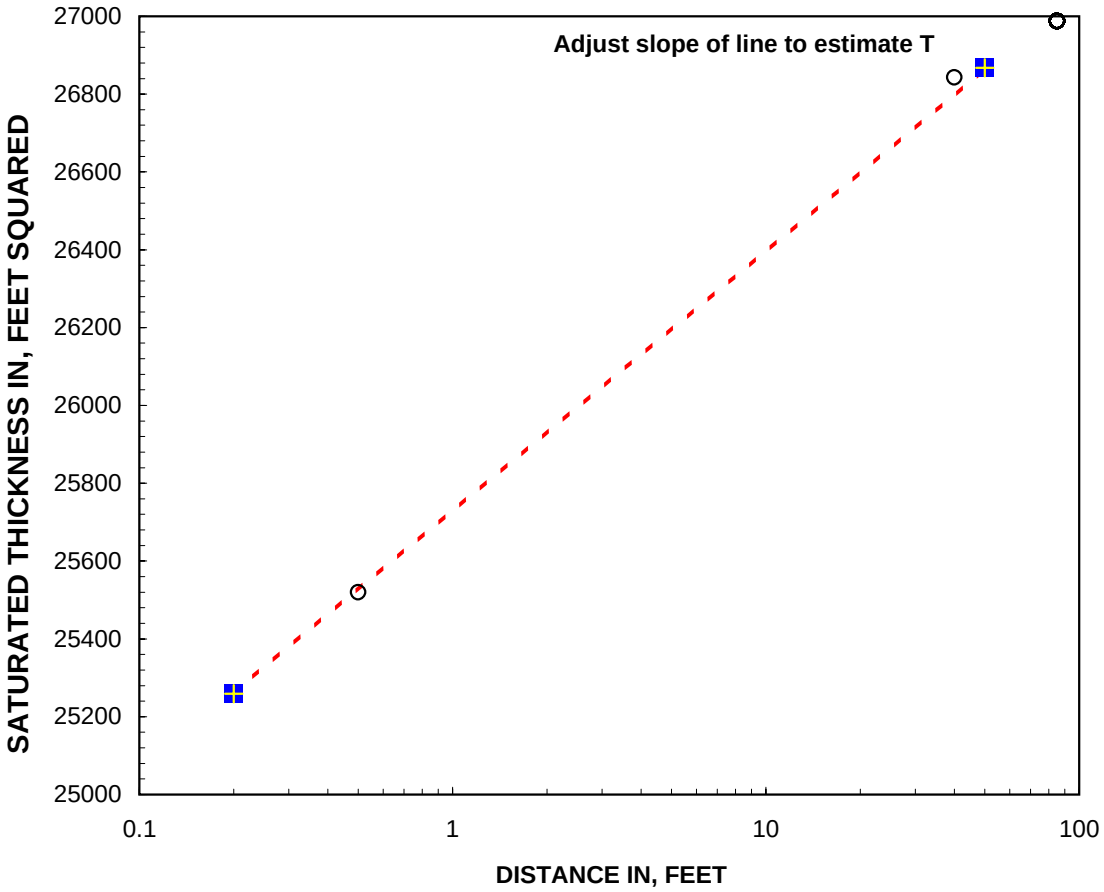
Aquifer thickness = 200 Feet

Aquifer is: **UNCONFINED**

Slope = 670.84517 Feet²/log10

Input is consistent.

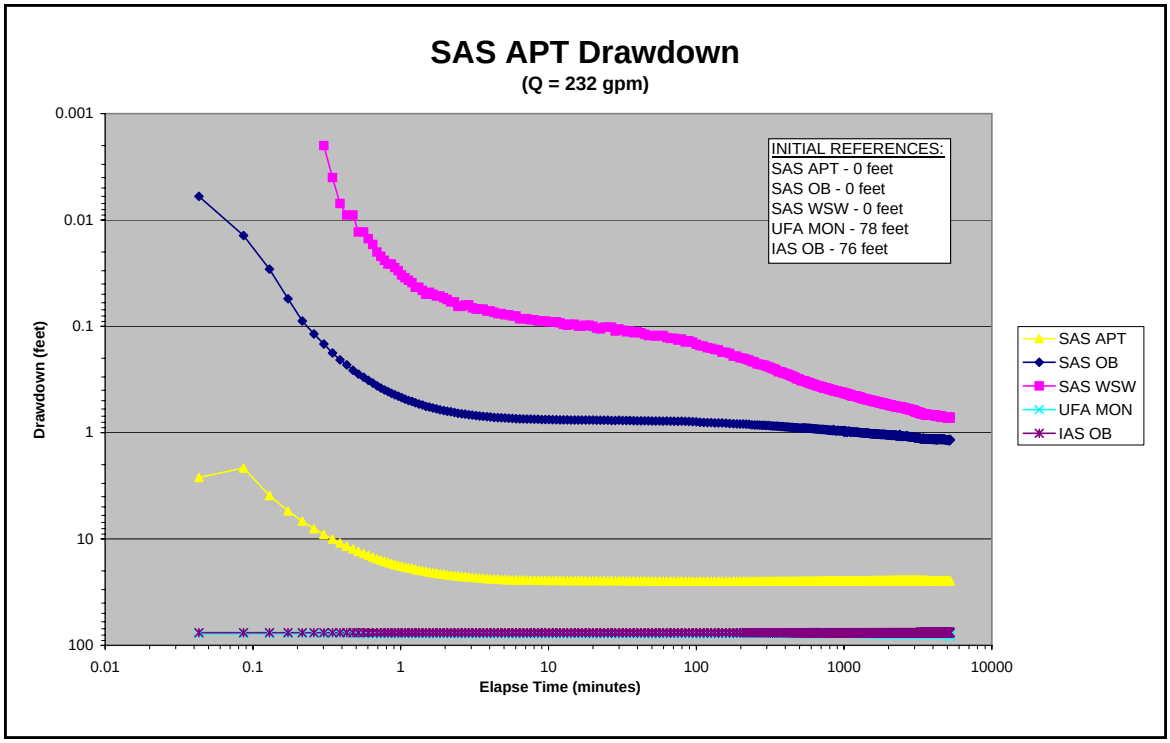
K =	50	Feet/Day
T =	8,000	Feet²/Day

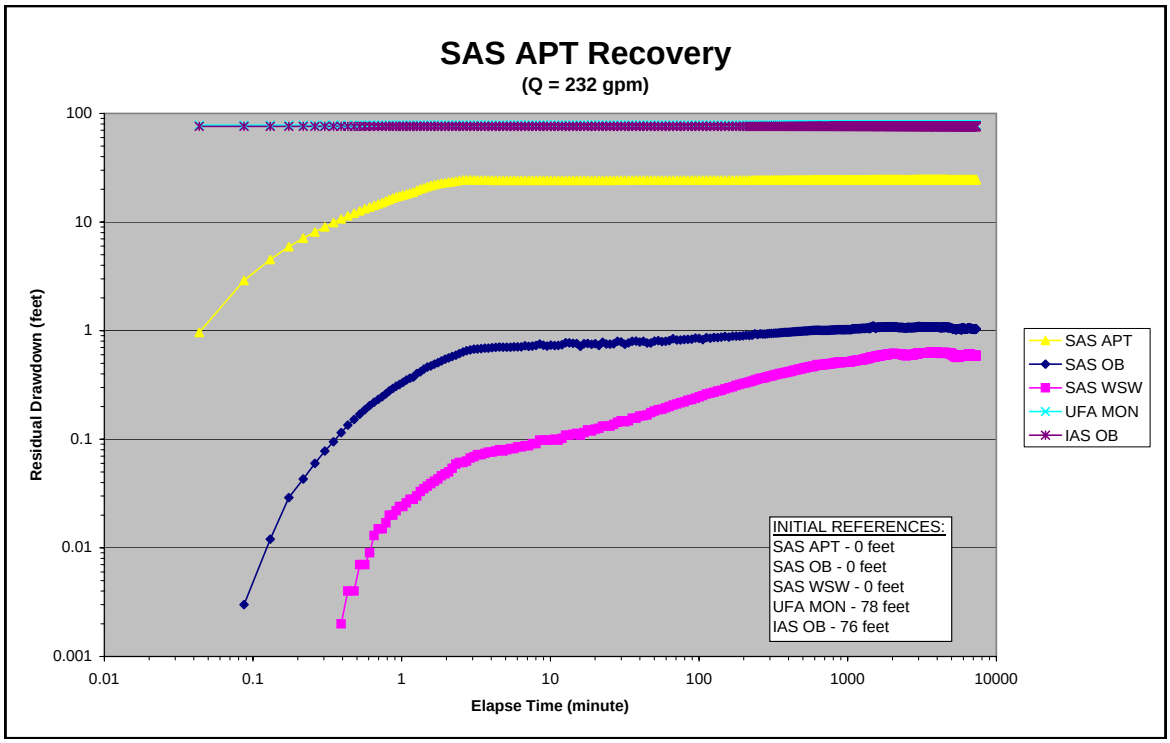


REMARKS: Drawdown-Distance analysis of multi-well aquifer test

R29A SAS APT
Assuming the APT well is 50% efficient so DD reduced from 10.5 feet to 5.25 feet.

SITE	DISTANCE, Feet	DRAWDOWN IN, FEET
R29A SAS APT	0.50	5.25
SAS OB	40.00	1.16
SAS WSW	85.00	0.72


SAS APT Drawdown
(Q = 232 gpm)
Drawdown (feet)
0.001
0.01
0.1
1
10
100
0.01
0.1
1
10
100
1000
10000
Elapse Time (minutes)
INITIAL REFERENCES:
SAS APT - 0 feet
SAS OB - 0 feet
SAS WSW - 0 feet
UFA MON - 78 feet
IAS OB - 76 feet
SAS APT
SAS OB
SAS WSW
UFA MON
IAS OB


SAS APT Recovery
(Q = 232 gpm)
Residual Drawdown (feet)
100
10
1
0.1
0.01
0.001
0.01
0.1
1
10
100
1000
10000
Elapse Time (minute)
INITIAL REFERENCES:
SAS APT - 0 feet
SAS OB - 0 feet
SAS WSW - 0 feet
UFA MON - 78 feet
IAS OB - 76 feet
SAS APT
SAS OB
SAS WSW
UFA MON
IAS OB

In-Situ Inc. Hermit 3000 Logger
ROMP 29A - Sebring Wellsite
Surficial Aquifer System Aquifer Performance Test

Reference (@ start)	102	102	101	101	101	78	76
Pressure @ Reference	148.08	38.267	19.862	129.768	29.368	30.306	153.554
Specific Gravity	1	1	1	1	1	1	1
Linearity	0.151	0.1237	0.1278	0.051	0.0801	0.106	0.016
Scale	99.33	19.749	19.8413	100.252	14.9252	19.7746	99.87
Offset	-0.015	-0.0757	0.0467	-0.119	-0.0237	0	-0.282

DRAWDOWN PHASE

Date Time MM/DD/YYYY HH:MM	Elapse Time (minutes)	SAS Pumped Well XD 1 (feet)	SAS Pumped Well (BU) XD 2 (feet)	SAS OB Well XD 3 (feet)	SAS OB Well (BU) XD 4 (feet)	SAS Water Supply Well XD 6 (feet)	UFA Permanent Well XD 7 (feet)	IAS OB Well XD 8 (feet)
11/4/2002 21:33	0	102	102	101	101	101	78	76
11/4/2002 21:33	0.0431	102	99.36	100.994	100.986	101	78	76
11/4/2002 21:33	0.0863	100.206	99.846	100.986	100.986	101	78	76.014
11/4/2002 21:33	0.1295	98.313	98.101	100.971	100.971	101	78	76.014
11/4/2002 21:33	0.1726	96.72	96.549	100.945	100.928	101	78	76.014
11/4/2002 21:33	0.2158	95.357	95.196	100.911	100.899	101	78	76.014
11/4/2002 21:33	0.259	94.123	94.005	100.882	100.87	101	78	76.014
11/4/2002 21:33	0.3021	93.062	92.945	100.853	100.841	100.998	78	76.014
11/4/2002 21:33	0.3453	92.029	91.975	100.822	100.812	100.996	77.997	76
11/4/2002 21:33	0.3885	91.211	91.092	100.793	100.783	100.993	77.997	76.014
11/4/2002 21:33	0.4316	90.393	90.303	100.77	100.754	100.991	77.997	76.014
11/4/2002 21:33	0.4748	89.647	89.575	100.741	100.725	100.991	77.997	76.014
11/4/2002 21:33	0.518	88.959	88.912	100.718	100.696	100.987	77.997	76.014
11/4/2002 21:33	0.5611	88.327	88.293	100.698	100.682	100.987	77.997	76
11/4/2002 21:33	0.6043	87.739	87.717	100.678	100.667	100.985	78	76.014
11/4/2002 21:33	0.6475	87.208	87.175	100.658	100.653	100.983	77.997	76.014
11/4/2002 21:33	0.6906	86.692	86.657	100.638	100.624	100.98	77.997	76
11/4/2002 21:33	0.7338	86.219	86.201	100.62	100.61	100.978	77.997	76.014
11/4/2002 21:33	0.777	85.803	85.786	100.603	100.595	100.976	77.997	76
11/4/2002 21:33	0.8201	85.387	85.385	100.589	100.581	100.974	77.997	76
11/4/2002 21:33	0.8645	84.999	84.987	100.574	100.566	100.974	77.997	76.014
11/4/2002 21:34	0.9115	84.626	84.646	100.56	100.552	100.972	77.997	76
11/4/2002 21:34	0.9613	84.268	84.279	100.546	100.537	100.97	77.997	76.014
11/4/2002 21:34	1.014	83.923	83.956	100.531	100.523	100.967	77.997	76.014
11/4/2002 21:34	1.0698	83.622	83.629	100.517	100.508	100.965	77.997	76
11/4/2002 21:34	1.129	83.307	83.323	100.502	100.494	100.963	77.997	76
11/4/2002 21:34	1.1916	83.063	83.108	100.491	100.465	100.961	77.994	75.986
11/4/2002 21:34	1.258	82.675	82.699	100.477	100.436	100.957	77.994	75.986
11/4/2002 21:34	1.3283	82.374	82.393	100.462	100.436	100.957	77.994	75.986
11/4/2002 21:34	1.4028	82.059	82.098	100.451	100.422	100.954	77.994	75.986
11/4/2002 21:34	1.4818	81.786	81.803	100.433	100.407	100.95	77.994	75.986
11/4/2002 21:34	1.5655	81.514	81.529	100.425	100.393	100.952	77.991	75.986
11/4/2002 21:34	1.654	81.227	81.26	100.413	100.393	100.95	77.994	75.986
11/4/2002 21:34	1.7478	80.983	81.019	100.402	100.364	100.948	77.994	75.986
11/4/2002 21:34	1.8471	80.725	80.771	100.39	100.364	100.948	77.994	75.986
11/4/2002 21:35	1.9525	80.495	80.53	100.379	100.349	100.946	77.994	75.986
11/4/2002 21:35	2.064	80.266	80.31	100.37	100.349	100.944	77.994	76
11/4/2002 21:35	2.1821	80.05	80.101	100.364	100.335	100.941	77.994	75.986
11/4/2002 21:35	2.3073	79.835	79.89	100.353	100.32	100.941	77.994	76
11/4/2002 21:35	2.4398	79.649	79.704	100.341	100.32	100.935	77.994	76
11/4/2002 21:35	2.5803	79.491	79.515	100.336	100.32	100.935	77.991	76
11/4/2002 21:35	2.7291	79.319	79.361	100.33	100.277	100.937	77.991	75.986
11/4/2002 21:35	2.8866	79.147	79.18	100.321	100.291	100.937	77.994	75.986
11/4/2002 21:36	3.0535	79.003	79.049	100.316	100.306	100.933	77.991	75.986

Date Time MM/DD/YYYY HH:MM	Elapse Time (minutes)	SAS Pumped Well XD 1 (feet)	SAS Pumped Well (BU) XD 2 (feet)	SAS OB Well XD 3 (feet)	SAS OB Well (BU) XD 4 (feet)	SAS Water Supply Well XD 6 (feet)	UFA Permanent Well XD 7 (feet)	IAS OB Well XD 8 (feet)
11/4/2002 21:36	3.2303	78.831	78.894	100.31	100.306	100.931	77.991	76
11/4/2002 21:36	3.4176	78.702	78.752	100.301	100.262	100.931	77.991	75.986
11/4/2002 21:36	3.616	78.559	78.594	100.298	100.277	100.931	77.991	75.986
11/4/2002 21:36	3.8261	78.415	78.446	100.292	100.248	100.928	77.989	75.986
11/4/2002 21:37	4.0488	78.286	78.334	100.287	100.234	100.928	77.989	75.986
11/4/2002 21:37	4.2846	78.171	78.205	100.281	100.234	100.926	77.991	76
11/4/2002 21:37	4.5345	78.042	78.103	100.278	100.277	100.924	77.989	75.986
11/4/2002 21:37	4.7991	77.942	78.005	100.275	100.262	100.924	77.989	76
11/4/2002 21:38	5.0795	77.856	77.925	100.272	100.262	100.922	77.989	75.986
11/4/2002 21:38	5.3763	77.784	77.84	100.267	100.219	100.922	77.989	76
11/4/2002 21:38	5.6908	77.727	77.782	100.264	100.234	100.92	77.986	75.986
11/4/2002 21:39	6.024	77.669	77.731	100.261	100.219	100.92	77.986	75.986
11/4/2002 21:39	6.3768	77.655	77.671	100.258	100.234	100.915	77.986	75.986
11/4/2002 21:39	6.7506	77.583	77.637	100.258	100.205	100.915	77.986	76
11/4/2002 21:40	7.1466	77.555	77.611	100.255	100.234	100.915	77.986	75.986
11/4/2002 21:40	7.566	77.54	77.58	100.255	100.205	100.913	77.983	75.986
11/4/2002 21:41	8.0103	77.512	77.565	100.252	100.19	100.913	77.983	76
11/4/2002 21:41	8.481	77.497	77.551	100.252	100.234	100.911	77.983	76
11/4/2002 21:42	8.9795	77.483	77.531	100.246	100.205	100.911	77.983	75.986
11/4/2002 21:42	9.5075	77.469	77.505	100.246	100.219	100.911	77.983	75.986
11/4/2002 21:43	10.0668	77.454	77.502	100.246	100.219	100.909	77.983	75.986
11/4/2002 21:43	10.6593	77.44	77.482	100.244	100.205	100.909	77.983	75.986
11/4/2002 21:44	11.2868	77.411	77.471	100.244	100.19	100.909	77.983	76
11/4/2002 21:45	11.9516	77.397	77.454	100.241	100.205	100.907	77.98	76
11/4/2002 21:45	12.6558	77.382	77.439	100.241	100.19	100.904	77.98	76
11/4/2002 21:46	13.4016	77.382	77.431	100.241	100.19	100.902	77.977	76
11/4/2002 21:47	14.1916	77.354	77.428	100.238	100.19	100.904	77.977	76
11/4/2002 21:48	15.0285	77.354	77.411	100.238	100.205	100.904	77.974	75.986
11/4/2002 21:49	15.915	77.339	77.382	100.238	100.19	100.9	77.974	76
11/4/2002 21:49	16.854	77.325	77.385	100.238	100.19	100.9	77.974	76
11/4/2002 21:50	17.8486	77.325	77.357	100.238	100.19	100.902	77.971	76
11/4/2002 21:52	18.9023	77.296	77.351	100.238	100.19	100.902	77.968	76
11/4/2002 21:53	20.0183	77.282	77.337	100.238	100.19	100.9	77.968	76
11/4/2002 21:54	21.2005	77.282	77.337	100.235	100.19	100.896	77.968	75.986
11/4/2002 21:55	22.4526	77.268	77.328	100.235	100.19	100.894	77.966	76
11/4/2002 21:56	23.7791	77.268	77.317	100.235	100.205	100.898	77.963	76
11/4/2002 21:58	25.1841	77.253	77.314	100.235	100.19	100.898	77.963	75.971
11/4/2002 21:59	26.6725	77.239	77.311	100.232	100.19	100.898	77.96	75.986
11/4/2002 22:01	28.249	77.225	77.294	100.232	100.19	100.889	77.96	75.986
11/4/2002 22:03	29.9188	77.253	77.319	100.235	100.19	100.894	77.957	75.986
11/4/2002 22:04	31.6876	77.253	77.308	100.232	100.19	100.891	77.954	75.986
11/4/2002 22:06	33.5613	77.225	77.265	100.232	100.19	100.887	77.951	75.986
11/4/2002 22:08	35.546	77.196	77.248	100.232	100.205	100.889	77.951	75.986
11/4/2002 22:10	37.6483	77.167	77.228	100.229	100.19	100.885	77.948	75.986
11/4/2002 22:12	39.8751	77.167	77.217	100.226	100.176	100.887	77.948	75.986
11/4/2002 22:15	42.234	77.167	77.208	100.226	100.176	100.885	77.945	75.986
11/4/2002 22:17	44.7326	77.153	77.205	100.226	100.176	100.881	77.94	75.986
11/4/2002 22:20	47.3793	77.139	77.214	100.226	100.176	100.878	77.937	75.986
11/4/2002 22:23	50.1828	77.124	77.185	100.223	100.176	100.878	77.934	75.986
11/4/2002 22:26	53.1525	77.11	77.168	100.223	100.176	100.876	77.931	75.986
11/4/2002 22:29	56.2981	77.096	77.159	100.223	100.176	100.878	77.928	75.986
11/4/2002 22:32	59.6301	77.11	77.157	100.221	100.161	100.878	77.925	75.971
11/4/2002 22:36	63.1596	77.11	77.151	100.223	100.176	100.872	77.922	75.986
11/4/2002 22:40	66.8981	77.096	77.139	100.221	100.176	100.87	77.917	75.986
11/4/2002 22:43	70.8583	77.081	77.139	100.221	100.176	100.87	77.911	75.971
11/4/2002 22:48	75.0531	77.081	77.142	100.218	100.176	100.865	77.905	75.971

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11/4/2002 22:52	79.4965	77.081	77.134	100.221	100.176	100.868	77.902	75.971
11/4/2002 22:57	84.2031	77.096	77.162	100.218	100.176	100.859	77.897	75.957
11/4/2002 23:02	89.1886	77.053	77.097	100.215	100.176	100.863	77.888	75.957
11/4/2002 23:07	94.4695	77.053	77.102	100.212	100.161	100.859	77.879	75.971
11/4/2002 23:13	100.0633	77.024	77.085	100.209	100.176	100.852	77.874	75.957
11/4/2002 23:19	105.9886	77.01	77.088	100.2	100.147	100.848	77.865	75.957
11/4/2002 23:25	112.265	77.01	77.071	100.198	100.147	100.846	77.859	75.957
11/4/2002 23:32	118.9133	77.038	77.099	100.195	100.147	100.841	77.845	75.957
11/4/2002 23:39	125.9555	77.01	77.065	100.195	100.132	100.839	77.836	75.957
11/4/2002 23:46	133.415	77.01	77.054	100.189	100.132	100.835	77.831	75.942
11/4/2002 23:54	141.3165	77.01	77.062	100.189	100.132	100.833	77.825	75.957
11/5/2002 0:02	149.6861	77.053	77.114	100.189	100.147	100.824	77.822	75.957
11/5/2002 0:11	158.5518	76.995	77.057	100.183	100.132	100.824	77.816	75.942
11/5/2002 0:21	167.9428	77.01	77.048	100.18	100.132	100.82	77.742	75.942
11/5/2002 0:31	177.8903	76.995	77.057	100.175	100.132	100.809	77.699	75.942
11/5/2002 0:41	187.8903	77.01	77.051	100.172	100.118	100.809	77.667	75.942
11/5/2002 0:51	197.8903	77.024	77.068	100.169	100.118	100.802	77.641	75.942
11/5/2002 1:01	207.8903	77.024	77.074	100.169	100.118	100.8	77.618	75.942
11/5/2002 1:11	217.8903	77.01	77.071	100.166	100.118	100.796	77.598	75.928
11/5/2002 1:21	227.8903	77.01	77.048	100.163	100.118	100.792	77.581	75.942
11/5/2002 1:31	237.8903	77.01	77.051	100.157	100.118	100.785	77.561	75.942
11/5/2002 1:41	247.8903	77.01	77.054	100.154	100.103	100.783	77.544	75.928
11/5/2002 1:51	257.8903	77.01	77.068	100.152	100.103	100.774	77.521	75.928
11/5/2002 2:01	267.8903	77.01	77.059	100.149	100.103	100.772	77.509	75.942
11/5/2002 2:11	277.8903	77.01	77.068	100.146	100.089	100.77	77.498	75.928
11/5/2002 2:21	287.8903	77.01	77.062	100.146	100.089	100.768	77.492	75.942
11/5/2002 2:31	297.8903	77.024	77.062	100.143	100.103	100.763	77.486	75.942
11/5/2002 2:41	307.8903	77.024	77.065	100.143	100.089	100.759	77.48	75.942
11/5/2002 2:51	317.8903	77.024	77.074	100.137	100.089	100.755	77.469	75.942
11/5/2002 3:01	327.8903	77.01	77.077	100.134	100.074	100.75	77.46	75.942
11/5/2002 3:11	337.8903	77.038	77.082	100.131	100.089	100.748	77.452	75.942
11/5/2002 3:21	347.8903	77.024	77.088	100.131	100.089	100.742	77.44	75.942
11/5/2002 3:31	357.8903	77.024	77.068	100.129	100.074	100.733	77.429	75.942
11/5/2002 3:41	367.8903	77.024	77.074	100.126	100.089	100.733	77.414	75.942
11/5/2002 3:51	377.8903	77.024	77.082	100.123	100.074	100.731	77.403	75.942
11/5/2002 4:01	387.8903	77.038	77.079	100.123	100.074	100.724	77.394	75.928
11/5/2002 4:11	397.8903	77.038	77.071	100.117	100.074	100.722	77.383	75.928
11/5/2002 4:21	407.8903	77.053	77.099	100.117	100.074	100.72	77.371	75.942
11/5/2002 4:31	417.8903	77.053	77.097	100.114	100.06	100.716	77.366	75.942
11/5/2002 4:41	427.8903	77.053	77.114	100.111	100.046	100.713	77.36	75.942
11/5/2002 4:51	437.8903	77.038	77.099	100.108	100.046	100.707	77.351	75.942
11/5/2002 5:01	447.8903	77.053	77.117	100.106	100.046	100.705	77.351	75.957
11/5/2002 5:11	457.8903	77.053	77.111	100.103	100.046	100.7	77.343	75.942
11/5/2002 5:21	467.8903	77.067	77.094	100.1	100.046	100.696	77.417	75.957
11/5/2002 5:31	477.8903	77.053	77.119	100.1	100.046	100.69	77.452	75.957
11/5/2002 5:41	487.8903	77.067	77.108	100.097	100.046	100.687	77.475	75.957
11/5/2002 5:51	497.8903	77.067	77.105	100.094	100.046	100.685	77.492	75.957
11/5/2002 6:01	507.8903	77.067	77.131	100.091	100.031	100.679	77.498	75.971
11/5/2002 6:11	517.8903	77.067	77.128	100.091	100.046	100.674	77.503	75.971
11/5/2002 6:21	527.8903	77.081	77.128	100.1	100.046	100.674	77.503	75.971
11/5/2002 6:31	537.8903	77.096	77.128	100.097	100.06	100.674	77.503	75.971
11/5/2002 6:41	547.8903	77.081	77.148	100.094	100.046	100.67	77.503	75.957
11/5/2002 6:51	557.8903	77.096	77.122	100.094	100.046	100.668	77.503	75.957
11/5/2002 7:01	567.8903	77.096	77.134	100.091	100.046	100.663	77.503	75.957
11/5/2002 7:11	577.8903	77.096	77.148	100.091	100.031	100.659	77.5	75.957
11/5/2002 7:21	587.8903	77.11	77.131	100.088	100.017	100.659	77.5	75.957

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11/5/2002 7:31	597.8903	77.11	77.134	100.088	100.031	100.653	77.498	75.957
11/5/2002 7:41	607.8903	77.11	77.145	100.085	100.017	100.65	77.492	75.957
11/5/2002 7:51	617.8903	77.067	77.148	100.083	100.002	100.648	77.48	75.957
11/5/2002 8:01	627.8903	-43.308	77.102	100.08	100.002	100.646	77.475	75.957
11/5/2002 8:11	637.8903	75.919	77.182	100.08	100.017	100.644	77.463	75.957
11/5/2002 8:21	647.8903	77.182	77.159	100.077	100.002	100.64	77.452	75.957
11/5/2002 8:31	657.8903	77.182	77.165	100.077	100.002	100.637	77.443	75.957
11/5/2002 8:41	667.8903	77.182	77.179	100.074	100.002	100.635	77.44	75.957
11/5/2002 8:51	677.8903	77.182	77.182	100.071	99.988	100.635	77.434	75.957
11/5/2002 9:01	687.8903	77.21	77.188	100.071	100.002	100.631	77.432	75.971
11/5/2002 9:11	697.8903	77.282	77.268	100.071	99.988	100.631	77.426	75.957
11/5/2002 9:21	707.8903	77.196	77.205	100.068	99.988	100.627	77.423	75.957
11/5/2002 9:31	717.8903	77.21	77.208	100.062	99.988	100.627	77.411	75.957
11/5/2002 9:41	727.8903	77.282	77.274	100.068	99.988	100.62	77.403	75.957
11/5/2002 9:51	737.8903	77.296	77.277	100.062	99.973	100.62	77.38	75.942
11/5/2002 10:01	747.8903	77.296	77.285	100.062	99.973	100.62	77.354	75.957
11/5/2002 10:11	757.8903	77.296	77.285	100.06	99.973	100.62	77.331	75.942
11/5/2002 10:21	767.8903	77.311	77.308	100.062	99.973	100.616	77.305	75.957
11/5/2002 10:31	777.8903	77.225	77.185	100.051	99.988	100.614	77.277	75.942
11/5/2002 10:41	787.8903	77.325	77.297	100.057	99.959	100.611	77.245	75.942
11/5/2002 10:51	797.8903	77.325	77.311	100.048	99.988	100.609	77.213	75.942
11/5/2002 11:01	807.8903	77.311	77.311	100.054	99.973	100.607	77.182	75.942
11/5/2002 11:11	817.8903	77.311	77.308	100.054	99.988	100.605	77.156	75.957
11/5/2002 11:21	827.8903	77.225	77.234	100.042	99.973	100.603	77.127	75.957
11/5/2002 11:31	837.8903	77.339	77.311	100.042	99.988	100.6	77.101	75.942
11/5/2002 11:41	847.8903	77.311	77.302	100.065	99.973	100.6	77.099	75.942
11/5/2002 11:51	857.8903	77.296	77.294	100.042	99.959	100.596	77.064	75.957
11/5/2002 12:01	867.8903	77.325	77.314	100.048	99.973	100.594	77.056	75.942
11/5/2002 12:11	877.8903	77.296	77.277	100.037	99.959	100.594	77.035	75.942
11/5/2002 12:21	887.8903	77.311	77.279	100.034	99.959	100.594	77.018	75.942
11/5/2002 12:31	897.8903	77.282	77.259	100.048	99.959	100.592	77.01	75.957
11/5/2002 12:41	907.8903	77.325	77.302	100.051	99.973	100.59	76.998	75.942
11/5/2002 12:51	917.8903	77.311	77.305	100.037	99.959	100.585	76.995	75.942
11/5/2002 13:01	927.8903	77.311	77.285	100.039	99.959	100.587	77.01	75.942
11/5/2002 13:11	937.8903	77.311	77.311	100.039	99.959	100.587	77.03	75.928
11/5/2002 13:21	947.8903	77.311	77.299	100.039	99.944	100.583	77.044	75.942
11/5/2002 13:31	957.8903	77.354	77.317	100.042	99.944	100.583	77.064	75.928
11/5/2002 13:41	967.8903	77.339	77.302	100.034	99.959	100.581	77.073	75.928
11/5/2002 13:51	977.8903	77.325	77.314	100.034	99.959	100.579	77.087	75.928
11/5/2002 14:01	987.8903	77.325	77.322	100.037	99.959	100.579	77.096	75.928
11/5/2002 14:11	997.8903	77.325	77.319	100.048	99.959	100.579	77.113	75.928
11/5/2002 14:21	1007.8903	77.239	77.217	100.002	99.944	100.572	77.099	75.928
11/5/2002 14:31	1017.8903	77.253	77.245	100.031	99.93	100.572	77.13	75.942
11/5/2002 14:41	1027.8903	77.253	77.254	100.039	99.93	100.572	77.147	75.942
11/5/2002 14:51	1037.8903	77.339	77.334	100.025	99.915	100.572	77.153	75.928
11/5/2002 15:01	1047.8903	77.325	77.314	100.002	99.915	100.566	77.15	75.942
11/5/2002 15:11	1057.8903	77.253	77.239	100.022	99.93	100.566	77.173	75.942
11/5/2002 15:21	1067.8903	77.339	77.322	100.031	99.93	100.566	77.196	75.942
11/5/2002 15:31	1077.8903	77.354	77.334	100.034	99.93	100.561	77.199	75.942
11/5/2002 15:41	1087.8903	77.339	77.337	100.025	99.915	100.561	77.199	75.942
11/5/2002 15:51	1097.8903	77.354	77.317	100.011	99.901	100.557	77.199	75.942
11/5/2002 16:01	1107.8903	77.339	77.322	100.005	99.901	100.555	77.199	75.942
11/5/2002 16:11	1117.8903	77.354	77.328	100.022	99.915	100.557	77.213	75.942
11/5/2002 16:21	1127.8903	77.253	77.234	100.016	99.901	100.551	77.219	75.957
11/5/2002 16:31	1137.8903	77.368	77.325	100.019	99.901	100.548	77.231	75.957
11/5/2002 16:41	1147.8903	77.253	77.248	100.014	99.901	100.548	77.239	75.957

Date Time MM/DD/YYYY HH:MM	Elapse Time (minutes)	SAS Pumped Well XD 1 (feet)	SAS Pumped Well (BU) XD 2 (feet)	SAS OB Well XD 3 (feet)	SAS OB Well (BU) XD 4 (feet)	SAS Water Supply Well XD 6 (feet)	UFA Permanent Well XD 7 (feet)	IAS OB Well XD 8 (feet)
11/5/2002 16:51	1157.8903	77.268	77.265	100.014	99.901	100.548	77.248	75.942
11/5/2002 17:01	1167.8903	77.268	77.254	100.008	99.901	100.548	77.248	75.942
11/5/2002 17:11	1177.8903	77.282	77.245	100.011	99.915	100.544	77.248	75.942
11/5/2002 17:21	1187.8903	77.268	77.251	100.008	99.886	100.548	77.254	75.942
11/5/2002 17:31	1197.8903	77.368	77.365	100.016	99.901	100.544	77.277	75.957
11/5/2002 17:41	1207.8903	77.354	77.339	100.008	99.901	100.544	77.271	75.942
11/5/2002 17:51	1217.8903	77.311	77.294	100.008	99.901	100.542	77.271	75.942
11/5/2002 18:01	1227.8903	77.311	77.294	100.008	99.915	100.542	77.262	75.942
11/5/2002 18:11	1237.8903	77.397	77.388	100.005	99.915	100.54	77.265	75.942
11/5/2002 18:21	1247.8903	77.311	77.311	100.005	99.915	100.54	77.274	75.942
11/5/2002 18:31	1257.8903	77.311	77.288	100.002	99.93	100.538	77.277	75.942
11/5/2002 18:41	1267.8903	77.397	77.399	100.002	99.915	100.533	77.277	75.942
11/5/2002 18:51	1277.8903	77.311	77.334	99.999	99.915	100.533	77.274	75.928
11/5/2002 19:01	1287.8903	77.354	77.354	99.999	99.915	100.533	77.268	75.928
11/5/2002 19:11	1297.8903	77.382	77.388	100.002	99.915	100.529	77.256	75.957
11/5/2002 19:21	1307.8903	77.311	77.328	99.999	99.901	100.527	77.254	75.957
11/5/2002 19:31	1317.8903	77.325	77.299	99.996	99.901	100.527	77.254	76.014
11/5/2002 19:41	1327.8903	77.354	77.339	99.996	99.901	100.525	77.254	76.058
11/5/2002 19:51	1337.8903	77.339	77.299	99.996	99.901	100.525	77.256	76.058
11/5/2002 20:01	1347.8903	77.426	77.397	99.999	99.901	100.52	77.254	76.086
11/5/2002 20:11	1357.8903	77.339	77.305	99.991	99.901	100.518	77.254	76.115
11/5/2002 20:21	1367.8903	77.382	77.365	99.993	99.886	100.518	77.251	76.144
11/5/2002 20:31	1377.8903	77.339	77.351	99.991	99.886	100.518	77.245	76.173
11/5/2002 20:41	1387.8903	77.354	77.351	99.991	99.886	100.516	77.236	76.187
11/5/2002 20:51	1397.8903	77.426	77.425	99.991	99.901	100.516	77.228	76.187
11/5/2002 21:01	1407.8903	77.368	77.359	99.991	99.901	100.514	77.225	76.202
11/5/2002 21:11	1417.8903	77.44	77.448	99.991	99.901	100.511	77.225	76.202
11/5/2002 21:21	1427.8903	77.368	77.331	99.991	99.901	100.511	77.225	76.202
11/5/2002 21:31	1437.8903	77.44	77.457	99.988	99.901	100.509	77.239	76.202
11/5/2002 21:41	1447.8903	77.382	77.365	99.985	99.901	100.507	77.271	76.187
11/5/2002 21:51	1457.8903	77.469	77.445	99.985	99.901	100.507	77.3	76.187
11/5/2002 22:01	1467.8903	77.382	77.354	99.982	99.886	100.507	77.325	76.187
11/5/2002 22:11	1477.8903	77.454	77.428	99.985	99.886	100.505	77.343	76.187
11/5/2002 22:21	1487.8903	77.397	77.362	99.979	99.886	100.505	77.363	76.187
11/5/2002 22:31	1497.8903	77.483	77.445	99.985	99.886	100.503	77.386	76.187
11/5/2002 22:41	1507.8903	77.397	77.357	99.979	99.886	100.503	77.406	76.187
11/5/2002 22:51	1517.8903	77.397	77.399	99.979	99.886	100.501	77.423	76.187
11/5/2002 23:01	1527.8903	77.368	77.348	99.976	99.886	100.501	77.44	76.187
11/5/2002 23:11	1537.8903	77.382	77.365	99.976	99.886	100.501	77.457	76.187
11/5/2002 23:21	1547.8903	77.397	77.351	99.979	99.886	100.498	77.477	76.187
11/5/2002 23:31	1557.8903	77.397	77.359	99.976	99.872	100.494	77.495	76.173
11/5/2002 23:41	1567.8903	77.497	77.448	99.976	99.886	100.494	77.506	76.173
11/5/2002 23:51	1577.8903	77.411	77.405	99.976	99.886	100.494	77.515	76.173
11/6/2002 0:01	1587.8903	77.397	77.397	99.976	99.872	100.492	77.529	76.173
11/6/2002 0:11	1597.8903	77.497	77.465	99.976	99.886	100.492	77.538	76.158
11/6/2002 0:21	1607.8903	77.411	77.402	99.973	99.872	100.492	77.555	76.158
11/6/2002 0:31	1617.8903	77.411	77.371	99.973	99.872	100.488	77.569	76.158
11/6/2002 0:41	1627.8903	77.469	77.459	99.973	99.886	100.49	77.587	76.158
11/6/2002 0:51	1637.8903	77.426	77.405	99.97	99.886	100.488	77.604	76.158
11/6/2002 1:01	1647.8903	77.411	77.397	99.973	99.886	100.488	77.621	76.158
11/6/2002 1:11	1657.8903	77.411	77.399	99.97	99.886	100.485	77.638	76.158
11/6/2002 1:21	1667.8903	77.497	77.477	99.968	99.886	100.485	77.65	76.158
11/6/2002 1:31	1677.8903	77.426	77.405	99.965	99.886	100.483	77.661	76.13
11/6/2002 1:41	1687.8903	77.426	77.402	99.968	99.886	100.483	77.673	76.13
11/6/2002 1:51	1697.8903	77.44	77.397	99.965	99.872	100.483	77.684	76.144
11/6/2002 2:01	1707.8903	77.426	77.371	99.965	99.886	100.483	77.699	76.13

Date Time MM/DD/YYYY HH:MM	Elapse Time (minutes)	SAS Pumped Well XD 1 (feet)	SAS Pumped Well (BU) XD 2 (feet)	SAS OB Well XD 3 (feet)	SAS OB Well (BU) XD 4 (feet)	SAS Water Supply Well XD 6 (feet)	UFA Permanent Well XD 7 (feet)	IAS OB Well XD 8 (feet)
11/6/2002 2:11	1717.8903	77.426	77.391	99.965	99.872	100.481	77.713	76.144
11/6/2002 2:21	1727.8903	77.426	77.399	99.965	99.886	100.479	77.727	76.144
11/6/2002 2:31	1737.8903	77.497	77.485	99.965	99.886	100.479	77.742	76.13
11/6/2002 2:41	1747.8903	77.44	77.408	99.965	99.886	100.479	77.756	76.144
11/6/2002 2:51	1757.8903	77.44	77.397	99.962	99.872	100.477	77.779	76.13
11/6/2002 3:01	1767.8903	77.426	77.411	99.962	99.886	100.477	77.793	76.13
11/6/2002 3:11	1777.8903	77.426	77.388	99.962	99.858	100.475	77.808	76.13
11/6/2002 3:21	1787.8903	77.44	77.394	99.962	99.872	100.472	77.819	76.13
11/6/2002 3:31	1797.8903	77.44	77.405	99.962	99.858	100.475	77.831	76.144
11/6/2002 3:41	1807.8903	77.44	77.417	99.962	99.872	100.472	77.839	76.144
11/6/2002 3:51	1817.8903	77.44	77.422	99.962	99.886	100.472	77.848	76.144
11/6/2002 4:01	1827.8903	77.526	77.491	99.959	99.872	100.47	77.859	76.144
11/6/2002 4:11	1837.8903	77.454	77.428	99.959	99.872	100.468	77.871	76.158
11/6/2002 4:21	1847.8903	77.454	77.425	99.959	99.872	100.468	77.885	76.144
11/6/2002 4:31	1857.8903	77.44	77.397	99.959	99.872	100.466	77.897	76.158
11/6/2002 4:41	1867.8903	77.44	77.408	99.959	99.858	100.468	77.911	76.158
11/6/2002 4:51	1877.8903	77.497	77.477	99.959	99.872	100.466	77.928	76.158
11/6/2002 5:01	1887.8903	77.44	77.391	99.959	99.872	100.464	77.943	76.144
11/6/2002 5:11	1897.8903	77.44	77.402	99.959	99.858	100.464	77.954	76.158
11/6/2002 5:21	1907.8903	77.483	77.439	99.953	99.872	100.462	77.966	76.158
11/6/2002 5:31	1917.8903	77.44	77.428	99.953	99.858	100.464	77.971	76.144
11/6/2002 5:41	1927.8903	77.44	77.442	99.95	99.858	100.459	77.98	76.158
11/6/2002 5:51	1937.8903	77.54	77.517	99.956	99.858	100.459	77.989	76.158
11/6/2002 6:01	1947.8903	77.454	77.417	99.95	99.872	100.457	77.997	76.158
11/6/2002 6:11	1957.8903	77.454	77.422	99.95	99.858	100.457	78.009	76.158
11/6/2002 6:21	1967.8903	77.54	77.502	99.956	99.858	100.457	78.017	76.158
11/6/2002 6:31	1977.8903	77.454	77.425	99.95	99.858	100.455	78.023	76.158
11/6/2002 6:41	1987.8903	77.454	77.437	99.953	99.858	100.455	78.032	76.158
11/6/2002 6:51	1997.8903	77.526	77.502	99.95	99.858	100.453	78.034	76.173
11/6/2002 7:01	2007.8903	77.454	77.417	99.947	99.858	100.453	78.043	76.158
11/6/2002 7:11	2017.8903	77.454	77.419	99.947	99.858	100.451	78.04	76.158
11/6/2002 7:21	2027.8903	77.526	77.499	99.947	99.858	100.453	78.04	76.158
11/6/2002 7:31	2037.8903	77.469	77.439	99.945	99.858	100.449	78.037	76.158
11/6/2002 7:41	2047.8903	77.469	77.445	99.945	99.858	100.449	78.034	76.158
11/6/2002 7:51	2057.8903	77.469	77.422	99.942	99.858	100.449	78.034	76.158
11/6/2002 8:01	2067.8903	77.454	77.417	99.945	99.858	100.449	78.043	76.158
11/6/2002 8:11	2077.8903	77.454	77.439	99.942	99.843	100.442	78.046	76.173
11/6/2002 8:21	2087.8903	77.469	77.439	99.942	99.843	100.446	78.049	76.173
11/6/2002 8:31	2097.8903	77.512	77.462	99.945	99.843	100.442	78.049	76.173
11/6/2002 8:41	2107.8903	77.469	77.419	99.936	99.843	100.44	78.043	76.158
11/6/2002 8:51	2117.8903	77.583	77.522	99.942	99.843	100.442	78.037	76.173
11/6/2002 9:01	2127.8903	77.569	77.511	99.939	99.843	100.44	78.034	76.187
11/6/2002 9:11	2137.8903	77.555	77.511	99.942	99.843	100.438	78.032	76.173
11/6/2002 9:21	2147.8903	77.555	77.525	99.939	99.829	100.438	78.029	76.173
11/6/2002 9:31	2157.8903	77.555	77.502	99.942	99.829	100.44	78.034	76.173
11/6/2002 9:41	2167.8903	77.512	77.465	99.947	99.829	100.438	78.043	76.173
11/6/2002 9:51	2177.8903	77.483	77.465	99.942	99.843	100.438	78.04	76.187
11/6/2002 10:01	2187.8903	77.569	77.525	99.936	99.843	100.435	78.04	76.173
11/6/2002 10:11	2197.8903	77.569	77.531	99.945	99.829	100.433	78.037	76.173
11/6/2002 10:21	2207.8903	77.555	77.534	99.942	99.829	100.435	78.029	76.173
11/6/2002 10:31	2217.8903	77.569	77.531	99.942	99.829	100.433	78.029	76.158
11/6/2002 10:41	2227.8903	77.555	77.519	99.936	99.8	100.433	78.029	76.144
11/6/2002 10:51	2237.8903	77.454	77.425	99.933	99.814	100.431	78.037	76.144
11/6/2002 11:01	2247.8903	77.555	77.537	99.945	99.829	100.431	78.049	76.158
11/6/2002 11:11	2257.8903	77.555	77.517	99.939	99.829	100.427	78.049	76.158
11/6/2002 11:21	2267.8903	77.569	77.514	99.942	99.829	100.429	78.052	76.158

Date Time MM/DD/YYYY HH:MM	Elapse Time (minutes)	SAS Pumped Well XD 1 (feet)	SAS Pumped Well (BU) XD 2 (feet)	SAS OB Well XD 3 (feet)	SAS OB Well (BU) XD 4 (feet)	SAS Water Supply Well XD 6 (feet)	UFA Permanent Well XD 7 (feet)	IAS OB Well XD 8 (feet)
11/6/2002 11:31	2277.8903	77.569	77.519	99.916	99.829	100.431	78.04	76.158
11/6/2002 11:41	2287.8903	77.483	77.431	99.922	99.814	100.429	78.043	76.144
11/6/2002 11:51	2297.8903	77.569	77.508	99.933	99.814	100.429	78.049	76.158
11/6/2002 12:01	2307.8903	77.526	77.482	99.924	99.829	100.427	78.055	76.158
11/6/2002 12:11	2317.8903	77.469	77.442	99.919	99.814	100.427	78.057	76.158
11/6/2002 12:21	2327.8903	77.497	77.462	99.933	99.829	100.431	78.075	76.144
11/6/2002 12:31	2337.8903	77.569	77.531	99.939	99.814	100.427	78.086	76.144
11/6/2002 12:41	2347.8903	77.583	77.58	99.939	99.829	100.427	78.089	76.13
11/6/2002 12:51	2357.8903	77.612	77.568	99.945	99.829	100.427	78.098	76.144
11/6/2002 13:01	2367.8903	77.583	77.557	99.927	99.814	100.422	78.092	76.13
11/6/2002 13:11	2377.8903	77.612	77.554	99.959	99.829	100.427	78.112	76.144
11/6/2002 13:21	2387.8903	77.598	77.574	99.95	99.8	100.427	78.109	76.13
11/6/2002 13:31	2397.8903	77.512	77.485	99.93	99.8	100.42	78.106	76.13
11/6/2002 13:41	2407.8903	77.512	77.474	99.913	99.8	100.422	78.112	76.13
11/6/2002 13:51	2417.8903	77.483	77.465	99.933	99.8	100.422	78.132	76.144
11/6/2002 14:01	2427.8903	77.598	77.54	99.927	99.8	100.416	78.138	76.13
11/6/2002 14:11	2437.8903	77.583	77.554	99.927	99.742	100.422	78.123	76.144
11/6/2002 14:21	2447.8903	77.598	77.519	99.93	99.698	100.422	78.135	76.158
11/6/2002 14:31	2457.8903	77.54	77.485	99.927	99.713	100.425	78.138	76.158
11/6/2002 14:41	2467.8903	77.497	77.445	99.93	99.742	100.42	78.135	76.144
11/6/2002 14:51	2477.8903	77.497	77.445	99.927	99.742	100.418	78.141	76.158
11/6/2002 15:01	2487.8903	77.497	77.454	99.916	99.742	100.416	78.132	76.158
11/6/2002 15:11	2497.8903	77.512	77.468	99.924	99.756	100.42	78.144	76.144
11/6/2002 15:21	2507.8903	77.512	77.445	99.913	99.742	100.414	78.141	76.144
11/6/2002 15:31	2517.8903	77.612	77.554	99.916	99.742	100.416	78.144	76.144
11/6/2002 15:41	2527.8903	209.832	102.906	119.993	225.025	137.399	96.204	-22.151
11/6/2002 15:51	2537.8903	574.1	150.801	129.974	441.789	138.056	197.806	776.317
11/6/2002 16:01	2547.8903	-99.71	52.188	69.822	-86.847	197.694	83.059	216.265
11/6/2002 16:11	2557.8903	154.403	52.915	69.822	-86.847	62.982	36.306	-135.794
11/6/2002 16:21	2567.8903	-103.373	52.188	69.822	-86.847	94.839	184.728	567.56
11/6/2002 16:31	2577.8903	520.613	109.491	83.995	579.013	84.418	133.189	622.597
11/6/2002 16:41	2587.8903	77.526	77.468	99.916	99.785	100.409	78.175	76.158
11/6/2002 16:51	2597.8903	77.626	77.56	99.922	99.785	100.407	78.178	76.13
11/6/2002 17:01	2607.8903	77.612	77.574	99.919	99.785	100.409	78.169	76.144
11/6/2002 17:11	2617.8903	77.612	77.554	99.919	99.771	100.407	78.169	76.144
11/6/2002 17:21	2627.8903	77.598	77.557	99.922	99.771	100.407	78.175	76.13
11/6/2002 17:31	2637.8903	77.526	77.485	99.913	99.785	100.403	78.172	76.13
11/6/2002 17:41	2647.8903	77.626	77.58	99.916	99.771	100.405	78.178	76.13
11/6/2002 17:51	2657.8903	77.54	77.471	99.916	99.785	100.403	78.189	76.13
11/6/2002 18:01	2667.8903	77.54	77.485	99.916	99.771	100.401	78.189	76.115
11/6/2002 18:11	2677.8903	77.54	77.479	99.913	99.771	100.401	78.192	76.115
11/6/2002 18:21	2687.8903	77.583	77.528	99.916	99.785	100.401	78.192	76.115
11/6/2002 18:31	2697.8903	77.555	77.488	99.913	99.785	100.399	78.192	76.115
11/6/2002 18:41	2707.8903	77.641	77.585	99.916	99.785	100.399	78.189	76.115
11/6/2002 18:51	2717.8903	77.555	77.488	99.916	99.771	100.399	78.178	76.101
11/6/2002 19:01	2727.8903	77.54	77.488	99.913	99.771	100.396	78.175	76.115
11/6/2002 19:11	2737.8903	77.555	77.494	99.91	99.771	100.396	78.172	76.101
11/6/2002 19:21	2747.8903	77.555	77.499	99.907	99.785	100.394	78.172	76.115
11/6/2002 19:31	2757.8903	77.555	77.505	99.907	99.771	100.396	78.178	76.086
11/6/2002 19:41	2767.8903	77.54	77.491	99.91	99.785	100.394	78.178	76.072
11/6/2002 19:51	2777.8903	77.54	77.494	99.907	99.771	100.392	78.178	76.072
11/6/2002 20:01	2787.8903	77.54	77.479	99.904	99.785	100.394	78.175	76.072
11/6/2002 20:11	2797.8903	77.54	77.494	99.907	99.785	100.394	78.175	76.072
11/6/2002 20:21	2807.8903	77.54	77.488	99.907	99.785	100.392	78.164	76.072
11/6/2002 20:31	2817.8903	77.555	77.488	99.904	99.785	100.39	78.158	76.058
11/6/2002 20:41	2827.8903	77.555	77.511	99.907	99.771	100.39	78.155	76.058

Date Time MM/DD/YYYY HH:MM	Elapse Time (minutes)	SAS Pumped Well XD 1 (feet)	SAS Pumped Well (BU) XD 2 (feet)	SAS OB Well XD 3 (feet)	SAS OB Well (BU) XD 4 (feet)	SAS Water Supply Well XD 6 (feet)	UFA Permanent Well XD 7 (feet)	IAS OB Well XD 8 (feet)
11/6/2002 20:51	2837.8903	77.555	77.494	99.907	99.756	100.39	78.152	76.058
11/6/2002 21:01	2847.8903	77.555	77.514	99.901	99.742	100.39	78.152	76.058
11/6/2002 21:11	2857.8903	77.569	77.502	99.904	99.756	100.39	78.155	76.058
11/6/2002 21:21	2867.8903	77.555	77.508	99.904	99.756	100.388	78.152	76.043
11/6/2002 21:31	2877.8903	77.54	77.494	99.907	99.771	100.383	78.158	76.043
11/6/2002 21:41	2887.8903	77.555	77.491	99.901	99.742	100.383	78.155	76.043
11/6/2002 21:51	2897.8903	77.555	77.488	99.901	99.742	100.386	78.158	76.043
11/6/2002 22:01	2907.8903	77.555	77.502	99.901	99.756	100.386	78.158	76.029
11/6/2002 22:11	2917.8903	77.569	77.491	99.901	99.756	100.381	78.149	76.029
11/6/2002 22:21	2927.8903	77.569	77.494	99.901	99.756	100.383	78.144	76.029
11/6/2002 22:31	2937.8903	77.555	77.479	99.901	99.742	100.381	78.141	76.014
11/6/2002 22:41	2947.8903	77.54	77.491	99.901	99.742	100.381	78.138	76.014
11/6/2002 22:51	2957.8903	77.54	77.494	99.899	99.756	100.377	78.132	76.014
11/6/2002 23:01	2967.8903	77.54	77.497	99.899	99.742	100.381	78.135	76.014
11/6/2002 23:11	2977.8903	77.569	77.477	99.899	99.756	100.377	78.138	76
11/6/2002 23:21	2987.8903	77.54	77.482	99.887	99.742	100.37	78.141	75.986
11/6/2002 23:31	2997.8903	77.526	77.488	99.887	99.742	100.373	78.141	75.986
11/6/2002 23:41	3007.8903	77.54	77.488	99.887	99.727	100.375	78.144	75.986
11/6/2002 23:51	3017.8903	77.555	77.491	99.884	99.727	100.37	78.146	75.986
11/7/2002 0:01	3027.8903	77.54	77.505	99.881	99.727	100.368	78.146	75.986
11/7/2002 0:11	3037.8903	77.555	77.505	99.881	99.742	100.368	78.149	75.986
11/7/2002 0:21	3047.8903	77.555	77.491	99.881	99.727	100.364	78.08	75.986
11/7/2002 0:31	3057.8903	77.54	77.485	99.881	99.742	100.364	78.043	75.971
11/7/2002 0:41	3067.8903	77.54	77.468	99.881	99.727	100.364	78.017	75.957
11/7/2002 0:51	3077.8903	77.54	77.468	99.881	99.742	100.364	77.994	75.957
11/7/2002 1:01	3087.8903	77.54	77.488	99.881	99.742	100.362	77.983	75.957
11/7/2002 1:11	3097.8903	77.54	77.494	99.876	99.742	100.362	77.968	75.957
11/7/2002 1:21	3107.8903	77.54	77.485	99.878	99.727	100.362	77.957	75.957
11/7/2002 1:31	3117.8903	77.54	77.482	99.878	99.727	100.36	77.943	75.957
11/7/2002 1:41	3127.8903	77.54	77.468	99.873	99.727	100.355	77.931	75.942
11/7/2002 1:51	3137.8903	77.54	77.474	99.876	99.727	100.357	77.917	75.942
11/7/2002 2:01	3147.8903	77.54	77.457	99.876	99.727	100.355	77.905	75.928
11/7/2002 2:11	3157.8903	77.526	77.477	99.876	99.727	100.355	77.888	75.928
11/7/2002 2:21	3167.8903	77.54	77.462	99.881	99.742	100.353	77.879	75.928
11/7/2002 2:31	3177.8903	77.54	77.477	99.873	99.727	100.353	77.879	75.928
11/7/2002 2:41	3187.8903	77.54	77.494	99.87	99.742	100.355	77.879	75.928
11/7/2002 2:51	3197.8903	77.526	77.471	99.878	99.727	100.353	77.874	75.928
11/7/2002 3:01	3207.8903	77.512	77.468	99.87	99.727	100.351	77.877	75.928
11/7/2002 3:11	3217.8903	77.526	77.465	99.876	99.713	100.351	77.877	75.928
11/7/2002 3:21	3227.8903	77.526	77.474	99.867	99.727	100.351	77.877	75.928
11/7/2002 3:31	3237.8903	77.54	77.474	99.876	99.727	100.349	77.874	75.928
11/7/2002 3:41	3247.8903	77.54	77.465	99.876	99.727	100.346	77.874	75.928
11/7/2002 3:51	3257.8903	77.54	77.479	99.864	99.713	100.344	77.871	75.914
11/7/2002 4:01	3267.8903	77.526	77.468	99.864	99.713	100.344	77.871	75.914
11/7/2002 4:11	3277.8903	77.54	77.494	99.861	99.713	100.344	77.874	75.914
11/7/2002 4:21	3287.8903	77.555	77.457	99.87	99.727	100.342	77.868	75.914
11/7/2002 4:31	3297.8903	77.54	77.471	99.864	99.727	100.342	77.868	75.914
11/7/2002 4:41	3307.8903	77.54	77.457	99.864	99.727	100.34	77.868	75.914
11/7/2002 4:51	3317.8903	77.54	77.457	99.858	99.727	100.34	77.868	75.914
11/7/2002 5:01	3327.8903	77.54	77.459	99.858	99.713	100.34	77.871	75.914
11/7/2002 5:11	3337.8903	77.54	77.462	99.861	99.727	100.34	77.868	75.914
11/7/2002 5:21	3347.8903	77.54	77.468	99.858	99.727	100.333	77.954	75.914
11/7/2002 5:31	3357.8903	77.512	77.439	99.853	99.698	100.333	77.994	75.914
11/7/2002 5:41	3367.8903	77.512	77.457	99.853	99.713	100.331	78.023	75.914
11/7/2002 5:51	3377.8903	77.512	77.454	99.85	99.698	100.331	78.049	75.914
11/7/2002 6:01	3387.8903	77.512	77.459	99.853	99.713	100.331	78.069	75.914

Date Time MM/DD/YYYY HH:MM	Elapse Time (minutes)	SAS Pumped Well XD 1 (feet)	SAS Pumped Well (BU) XD 2 (feet)	SAS OB Well XD 3 (feet)	SAS OB Well (BU) XD 4 (feet)	SAS Water Supply Well XD 6 (feet)	UFA Permanent Well XD 7 (feet)	IAS OB Well XD 8 (feet)
11/7/2002 6:11	3397.8903	77.512	77.465	99.855	99.698	100.329	78.086	75.928
11/7/2002 6:21	3407.8903	77.526	77.462	99.861	99.713	100.336	78.103	75.899
11/7/2002 6:31	3417.8903	77.526	77.451	99.864	99.727	100.331	78.115	75.914
11/7/2002 6:41	3427.8903	77.512	77.448	99.867	99.713	100.331	78.126	75.914
11/7/2002 6:51	3437.8903	77.54	77.454	99.87	99.713	100.331	78.135	75.914
11/7/2002 7:01	3447.8903	77.54	77.485	99.87	99.713	100.329	78.144	75.899
11/7/2002 7:11	3457.8903	77.526	77.465	99.864	99.713	100.329	78.146	75.899
11/7/2002 7:21	3467.8903	77.54	77.465	99.864	99.713	100.331	78.152	75.914
11/7/2002 7:31	3477.8903	77.54	77.479	99.864	99.727	100.329	78.164	75.914
11/7/2002 7:41	3487.8903	77.54	77.457	99.864	99.727	100.329	78.169	75.914
11/7/2002 7:51	3497.8903	77.54	77.465	99.858	99.713	100.327	78.178	75.914
11/7/2002 8:01	3507.8903	77.526	77.448	99.858	99.713	100.325	78.187	75.914
11/7/2002 8:11	3517.8903	77.54	77.451	99.858	99.713	100.325	78.195	75.914
11/7/2002 8:21	3527.8903	77.555	77.474	99.861	99.713	100.325	78.195	75.914
11/7/2002 8:31	3537.8903	77.526	77.457	99.858	99.698	100.325	78.195	75.914
11/7/2002 8:41	3547.8903	77.555	77.457	99.858	99.713	100.325	78.192	75.914
11/7/2002 8:51	3557.8903	77.54	77.451	99.858	99.727	100.323	78.198	75.914
11/7/2002 9:01	3567.8903	77.54	77.459	99.858	99.713	100.32	78.195	75.914
11/7/2002 9:11	3577.8903	77.526	77.425	99.858	99.713	100.323	78.198	75.914
11/7/2002 9:21	3587.8903	77.526	77.451	99.855	99.713	100.323	78.207	75.914
11/7/2002 9:31	3597.8903	77.497	77.411	99.855	99.713	100.318	78.207	75.914
11/7/2002 9:41	3607.8903	77.512	77.442	99.855	99.698	100.323	78.198	75.899
11/7/2002 9:51	3617.8903	77.497	77.428	99.855	99.698	100.32	78.172	75.899
11/7/2002 10:01	3627.8903	77.483	77.439	99.853	99.713	100.323	78.141	75.899
11/7/2002 10:11	3637.8903	77.483	77.434	99.855	99.698	100.32	78.112	75.914
11/7/2002 10:21	3647.8903	77.483	77.434	99.853	99.698	100.32	78.08	75.914
11/7/2002 10:31	3657.8903	77.497	77.431	99.855	99.698	100.318	78.057	75.899
11/7/2002 10:41	3667.8903	77.512	77.437	99.855	99.713	100.316	78.032	75.899
11/7/2002 10:51	3677.8903	77.483	77.394	99.853	99.698	100.318	78.014	75.899
11/7/2002 11:01	3687.8903	77.44	77.357	99.855	99.698	100.316	78	75.899
11/7/2002 11:11	3697.8903	77.382	77.305	99.85	99.698	100.314	77.977	75.899
11/7/2002 11:21	3707.8903	77.397	77.314	99.85	99.698	100.316	77.96	75.899
11/7/2002 11:31	3717.8903	77.397	77.322	99.853	99.698	100.318	77.94	75.885
11/7/2002 11:41	3727.8903	77.382	77.299	99.847	99.698	100.316	77.917	75.899
11/7/2002 11:51	3737.8903	77.382	77.317	99.855	99.698	100.316	77.9	75.899
11/7/2002 12:01	3747.8903	77.382	77.305	99.853	99.698	100.316	77.882	75.885
11/7/2002 12:11	3757.8903	77.382	77.311	99.85	99.684	100.316	77.868	75.899
11/7/2002 12:21	3767.8903	77.382	77.305	99.847	99.684	100.314	77.856	75.899
11/7/2002 12:31	3777.8903	77.368	77.299	99.85	99.698	100.318	77.842	75.899
11/7/2002 12:41	3787.8903	77.382	77.314	99.847	99.698	100.32	77.831	75.899
11/7/2002 12:51	3797.8903	77.368	77.305	99.847	99.684	100.314	77.813	75.899
11/7/2002 13:01	3807.8903	77.354	77.288	99.841	99.698	100.318	77.793	75.899
11/7/2002 13:11	3817.8903	77.368	77.288	99.85	99.698	100.318	77.779	75.899
11/7/2002 13:21	3827.8903	77.368	77.282	99.85	99.684	100.316	77.767	75.899
11/7/2002 13:31	3837.8903	77.368	77.314	99.847	99.698	100.32	77.753	75.899
11/7/2002 13:41	3847.8903	77.382	77.282	99.847	99.698	100.318	77.742	75.899
11/7/2002 13:51	3857.8903	77.368	77.288	99.847	99.713	100.316	77.733	75.899
11/7/2002 14:01	3867.8903	77.382	77.299	99.853	99.727	100.318	77.727	75.899
11/7/2002 14:11	3877.8903	77.382	77.299	99.844	99.713	100.32	77.719	75.899
11/7/2002 14:21	3887.8903	77.397	77.311	99.85	99.727	100.318	77.724	75.899
11/7/2002 14:31	3897.8903	77.382	77.302	99.847	99.713	100.316	77.736	75.914
11/7/2002 14:41	3907.8903	77.397	77.314	99.844	99.713	100.316	77.747	75.899
11/7/2002 14:51	3917.8903	77.382	77.325	99.847	99.727	100.314	77.765	75.899
11/7/2002 15:01	3927.8903	77.382	77.305	99.844	99.727	100.318	77.776	75.899
11/7/2002 15:11	3937.8903	77.382	77.294	99.847	99.713	100.314	77.788	75.914
11/7/2002 15:21	3947.8903	77.368	77.299	99.844	99.713	100.314	77.805	75.914

Date Time MM/DD/YYYY HH:MM	Elapse Time (minutes)	SAS Pumped Well XD 1 (feet)	SAS Pumped Well (BU) XD 2 (feet)	SAS OB Well XD 3 (feet)	SAS OB Well (BU) XD 4 (feet)	SAS Water Supply Well XD 6 (feet)	UFA Permanent Well XD 7 (feet)	IAS OB Well XD 8 (feet)
11/7/2002 15:31	3957.8903	77.354	77.282	99.841	99.713	100.316	77.822	75.899
11/7/2002 15:41	3967.8903	77.382	77.308	99.847	99.727	100.318	77.842	75.899
11/7/2002 15:51	3977.8903	77.382	77.294	99.847	99.727	100.314	77.854	75.914
11/7/2002 16:01	3987.8903	77.382	77.297	99.847	99.713	100.314	77.865	75.899
11/7/2002 16:11	3997.8903	77.397	77.325	99.85	99.713	100.314	77.874	75.914
11/7/2002 16:21	4007.8903	77.411	77.317	99.841	99.713	100.314	77.874	75.914
11/7/2002 16:31	4017.8903	77.397	77.308	99.841	99.713	100.314	77.882	75.899
11/7/2002 16:41	4027.8903	77.397	77.328	99.844	99.713	100.314	77.888	75.899
11/7/2002 16:51	4037.8903	77.397	77.314	99.847	99.727	100.314	77.897	75.899
11/7/2002 17:01	4047.8903	77.397	77.331	99.844	99.713	100.312	77.908	75.914
11/7/2002 17:11	4057.8903	77.397	77.319	99.844	99.684	100.312	77.92	75.914
11/7/2002 17:21	4067.8903	77.411	77.305	99.844	99.698	100.314	77.931	75.914
11/7/2002 17:31	4077.8903	77.397	77.337	99.844	99.698	100.314	77.94	75.914
11/7/2002 17:41	4087.8903	77.411	77.339	99.844	99.698	100.312	77.943	75.914
11/7/2002 17:51	4097.8903	77.411	77.339	99.841	99.698	100.312	77.943	75.899
11/7/2002 18:01	4107.8903	77.411	77.322	99.841	99.698	100.312	77.943	75.899
11/7/2002 18:11	4117.8903	77.397	77.337	99.844	99.684	100.312	77.948	75.899
11/7/2002 18:21	4127.8903	77.397	77.342	99.844	99.684	100.312	77.951	75.899
11/7/2002 18:31	4137.8903	77.397	77.334	99.844	99.698	100.307	77.957	75.899
11/7/2002 18:41	4147.8903	77.411	77.328	99.841	99.684	100.312	77.968	75.914
11/7/2002 18:51	4157.8903	77.426	77.334	99.844	99.698	100.31	77.977	75.914
11/7/2002 19:01	4167.8903	77.426	77.311	99.853	99.698	100.31	77.977	75.899
11/7/2002 19:11	4177.8903	77.411	77.337	99.838	99.684	100.31	77.98	75.899
11/7/2002 19:21	4187.8903	77.411	77.314	99.838	99.684	100.307	77.983	75.899
11/7/2002 19:31	4197.8903	77.411	77.331	99.838	99.684	100.307	77.98	75.899
11/7/2002 19:41	4207.8903	77.426	77.325	99.838	99.684	100.31	77.977	75.899
11/7/2002 19:51	4217.8903	77.44	77.339	99.841	99.684	100.305	77.971	75.899
11/7/2002 20:01	4227.8903	77.411	77.334	99.835	99.684	100.303	77.971	75.899
11/7/2002 20:11	4237.8903	77.411	77.314	99.838	99.684	100.307	77.977	75.899
11/7/2002 20:21	4247.8903	77.411	77.319	99.838	99.684	100.305	77.983	75.899
11/7/2002 20:31	4257.8903	77.426	77.342	99.838	99.684	100.305	77.989	75.899
11/7/2002 20:41	4267.8903	77.426	77.328	99.838	99.684	100.305	77.991	75.885
11/7/2002 20:51	4277.8903	77.411	77.317	99.844	99.684	100.303	77.991	75.899
11/7/2002 21:01	4287.8903	77.411	77.322	99.844	99.67	100.303	77.989	75.885
11/7/2002 21:11	4297.8903	77.411	77.299	99.847	99.67	100.301	77.989	75.899
11/7/2002 21:21	4307.8903	77.411	77.319	99.847	99.684	100.301	77.983	75.885
11/7/2002 21:31	4317.8903	77.397	77.317	99.847	99.684	100.301	77.983	75.885
11/7/2002 21:41	4327.8903	77.411	77.325	99.847	99.684	100.299	77.983	75.87
11/7/2002 21:51	4337.8903	77.411	77.311	99.841	99.684	100.299	77.983	75.87
11/7/2002 22:01	4347.8903	77.411	77.322	99.844	99.684	100.299	77.983	75.87
11/7/2002 22:11	4357.8903	77.397	77.322	99.844	99.684	100.299	77.989	75.87
11/7/2002 22:21	4367.8903	77.397	77.331	99.844	99.67	100.301	77.991	75.87
11/7/2002 22:31	4377.8903	77.411	77.325	99.844	99.67	100.299	77.991	75.885
11/7/2002 22:41	4387.8903	77.411	77.325	99.844	99.67	100.299	77.989	75.87
11/7/2002 22:51	4397.8903	77.411	77.328	99.847	99.684	100.299	77.986	75.87
11/7/2002 23:01	4407.8903	77.426	77.325	99.844	99.684	100.299	77.98	75.87
11/7/2002 23:11	4417.8903	77.426	77.342	99.847	99.684	100.297	77.974	75.856
11/7/2002 23:21	4427.8903	77.426	77.331	99.847	99.684	100.297	77.971	75.856
11/7/2002 23:31	4437.8903	77.426	77.305	99.844	99.684	100.294	77.968	75.856
11/7/2002 23:41	4447.8903	77.397	77.322	99.841	99.684	100.297	77.974	75.856
11/7/2002 23:51	4457.8903	77.397	77.322	99.844	99.684	100.297	77.977	75.856
11/8/2002 0:01	4467.8903	77.382	77.299	99.841	99.67	100.294	77.983	75.842
11/8/2002 0:11	4477.8903	77.382	77.311	99.841	99.684	100.294	77.986	75.856
11/8/2002 0:21	4487.8903	77.397	77.322	99.844	99.67	100.297	77.991	75.856
11/8/2002 0:31	4497.8903	77.426	77.311	99.844	99.67	100.297	78	75.842
11/8/2002 0:41	4507.8903	77.397	77.322	99.841	99.67	100.294	78.006	75.856

Date Time MM/DD/YYYY HH:MM	Elapse Time (minutes)	SAS Pumped Well XD 1 (feet)	SAS Pumped Well (BU) XD 2 (feet)	SAS OB Well XD 3 (feet)	SAS OB Well (BU) XD 4 (feet)	SAS Water Supply Well XD 6 (feet)	UFA Permanent Well XD 7 (feet)	IAS OB Well XD 8 (feet)
11/8/2002 0:51	4517.8903	77.397	77.334	99.844	99.67	100.294	78.009	75.842
11/8/2002 1:01	4527.8903	77.397	77.322	99.844	99.67	100.294	78.014	75.827
11/8/2002 1:11	4537.8903	77.397	77.317	99.844	99.684	100.294	78.02	75.827
11/8/2002 1:21	4547.8903	77.397	77.305	99.844	99.67	100.292	78.023	75.827
11/8/2002 1:31	4557.8903	77.397	77.299	99.844	99.684	100.29	78.032	75.827
11/8/2002 1:41	4567.8903	77.397	77.314	99.844	99.67	100.292	78.037	75.827
11/8/2002 1:51	4577.8903	77.397	77.305	99.847	99.67	100.292	78.04	75.827
11/8/2002 2:01	4587.8903	77.411	77.305	99.847	99.684	100.292	78.043	75.827
11/8/2002 2:11	4597.8903	77.397	77.311	99.844	99.67	100.292	78.04	75.827
11/8/2002 2:21	4607.8903	77.411	77.305	99.844	99.684	100.29	78.04	75.827
11/8/2002 2:31	4617.8903	77.411	77.305	99.844	99.684	100.29	78.04	75.827
11/8/2002 2:41	4627.8903	77.411	77.317	99.844	99.684	100.292	78.046	75.813
11/8/2002 2:51	4637.8903	77.411	77.337	99.844	99.684	100.29	78.055	75.827
11/8/2002 3:01	4647.8903	77.411	77.331	99.844	99.684	100.29	78.063	75.827
11/8/2002 3:11	4657.8903	77.411	77.311	99.844	99.67	100.29	78.072	75.827
11/8/2002 3:21	4667.8903	77.411	77.317	99.844	99.67	100.29	78.086	75.827
11/8/2002 3:31	4677.8903	77.411	77.322	99.844	99.684	100.29	78.095	75.827
11/8/2002 3:41	4687.8903	77.411	77.317	99.841	99.67	100.29	78.103	75.827
11/8/2002 3:51	4697.8903	77.426	77.322	99.841	99.67	100.29	78.109	75.813
11/8/2002 4:01	4707.8903	77.426	77.339	99.844	99.684	100.29	78.121	75.813
11/8/2002 4:11	4717.8903	77.411	77.314	99.844	99.67	100.29	78.129	75.813
11/8/2002 4:21	4727.8903	77.426	77.317	99.844	99.67	100.288	78.138	75.827
11/8/2002 4:31	4737.8903	77.426	77.319	99.844	99.684	100.29	78.149	75.827
11/8/2002 4:41	4747.8903	77.426	77.325	99.844	99.67	100.288	78.161	75.813
11/8/2002 4:51	4757.8903	77.411	77.339	99.841	99.684	100.288	78.167	75.827
11/8/2002 5:01	4767.8903	77.426	77.325	99.841	99.684	100.288	78.172	75.813
11/8/2002 5:11	4777.8903	77.426	77.314	99.844	99.67	100.286	78.178	75.827
11/8/2002 5:21	4787.8903	77.426	77.305	99.841	99.67	100.288	78.187	75.827
11/8/2002 5:31	4797.8903	77.411	77.311	99.841	99.67	100.286	78.189	75.827
11/8/2002 5:41	4807.8903	77.411	77.317	99.841	99.67	100.286	78.195	75.813
11/8/2002 5:51	4817.8903	77.426	77.339	99.838	99.67	100.286	78.201	75.827
11/8/2002 6:01	4827.8903	77.426	77.319	99.841	99.67	100.286	78.207	75.827
11/8/2002 6:11	4837.8903	77.426	77.334	99.835	99.67	100.286	78.212	75.827
11/8/2002 6:21	4847.8903	77.426	77.317	99.835	99.67	100.286	78.221	75.827
11/8/2002 6:31	4857.8903	77.426	77.322	99.835	99.67	100.284	78.23	75.827
11/8/2002 6:41	4867.8903	77.426	77.317	99.835	99.67	100.284	78.235	75.827
11/8/2002 6:51	4877.8903	77.411	77.331	99.835	99.67	100.286	78.247	75.827
11/8/2002 7:01	4887.8903	77.426	77.331	99.832	99.67	100.286	78.25	75.827
11/8/2002 7:11	4897.8903	77.426	77.328	99.832	99.67	100.284	78.247	75.827
11/8/2002 7:21	4907.8903	77.44	77.337	99.832	99.67	100.284	78.247	75.842
11/8/2002 7:31	4917.8903	77.426	77.342	99.832	99.684	100.284	78.244	75.827
11/8/2002 7:41	4927.8903	77.44	77.319	99.832	99.67	100.284	78.247	75.827
11/8/2002 7:51	4937.8903	77.44	77.345	99.832	99.67	100.281	78.247	75.842
11/8/2002 8:01	4947.8903	77.426	77.308	99.83	99.67	100.281	78.25	75.842
11/8/2002 8:11	4957.8903	77.44	77.325	99.832	99.684	100.281	78.256	75.842
11/8/2002 8:21	4967.8903	77.44	77.311	99.83	99.67	100.279	78.258	75.842
11/8/2002 8:31	4977.8903	77.426	77.328	99.83	99.67	100.281	78.258	75.842
11/8/2002 8:41	4987.8903	77.426	77.331	99.83	99.67	100.279	78.261	75.842
11/8/2002 8:51	4997.8903	77.426	77.325	99.83	99.67	100.277	78.256	75.842
11/8/2002 9:01	5007.8903	77.44	77.331	99.835	99.67	100.279	78.256	75.842
11/8/2002 9:11	5017.8903	77.44	77.354	99.83	99.67	100.277	78.25	75.842
11/8/2002 9:21	5027.8903	77.44	77.339	99.83	99.67	100.277	78.253	75.842
11/8/2002 9:31	5037.8903	77.44	77.348	99.827	99.655	100.275	78.253	75.856
11/8/2002 9:41	5047.8903	77.44	77.337	99.827	99.67	100.277	78.256	75.856
11/8/2002 9:51	5057.8903	77.454	77.348	99.827	99.67	100.277	78.261	75.856
11/8/2002 10:01	5067.8903	77.454	77.348	99.824	99.655	100.277	78.258	75.856

Date Time MM/DD/YYYY HH:MM	Elapse Time (minutes)	SAS Pumped Well XD 1 (feet)	SAS Pumped Well (BU) XD 2 (feet)	SAS OB Well XD 3 (feet)	SAS OB Well (BU) XD 4 (feet)	SAS Water Supply Well XD 6 (feet)	UFA Permanent Well XD 7 (feet)	IAS OB Well XD 8 (feet)
11/8/2002 10:11	5077.8903	77.469	77.362	99.832	99.626	100.277	78.256	75.856
11/8/2002 10:21	5087.8903	77.44	77.337	99.83	99.626	100.277	78.253	75.856
11/8/2002 10:31	5097.8903	77.44	77.314	99.83	99.655	100.275	78.25	75.856
11/8/2002 10:41	5107.8903	77.44	77.342	99.809	99.641	100.275	78.235	75.856
11/8/2002 10:51	5117.8903	77.454	77.337	99.844	99.67	100.277	78.256	75.856
11/8/2002 11:01	5127.8903	77.469	77.331	99.835	99.655	100.275	78.256	75.856
11/8/2002 11:11	5137.8903	77.454	77.328	99.824	99.655	100.277	78.253	75.856
11/8/2002 11:21	5147.8903	77.454	77.328	99.807	99.641	100.275	78.241	75.856
11/8/2002 11:31	5157.8903	77.454	77.357	99.821	99.67	100.275	78.244	75.856
11/8/2002 11:41	5167.8903	77.454	77.357	99.832	99.67	100.277	78.247	75.856
11/8/2002 11:51	5177.8903	77.454	77.354	99.818	99.67	100.275	78.238	75.87
11/8/2002 12:01	5187.8903	77.454	77.365	99.841	99.67	100.277	78.247	75.87
11/8/2002 12:11	5197.8903	77.454	77.334	99.832	99.67	100.277	78.258	75.856
11/8/2002 12:21	5207.8903	77.426	77.308	99.818	99.684	100.277	82.728	75.885
11/8/2002 12:31	5217.8903	77.426	77.325	99.838	99.684	100.279	79.08	75.856

In-Situ Inc. Hermit 3000 Logger
ROMP 29A - Sebring Wellsite
Surficial Aquifer System Aquifer Performance Test

Reference (@ start)	102	102	101	101	101	78	76
Pressure @ Reference	123.491	13.597	18.698	128.466	28.647	31.389	153.41
Specific Gravity	1	1	1	1	1	1	1
Linearity	0.151	0.1237	0.1278	0.051	0.0801	0.106	0.016
Scale	99.33	19.749	19.8413	100.252	14.9252	19.7746	99.87
Offset	-0.015	-0.0757	0.0467	-0.119	-0.0237	0	-0.282

RECOVERY PHASE

Date Time MM/DD/YYYY HH:MM	Elapse Time (minutes)	SAS Pumped Well XD 1 (feet)	SAS Pumped Well (BU) XD 2 (feet)	SAS OB Well XD 3 (feet)	SAS OB Well (BU) XD 4 (feet)	SAS Water Supply Well XD 6 (feet)	UFA Permanent Well XD 7 (feet)	IAS OB Well XD 8 (feet)
11/8/2002 12:37	0	102.014	102.017	101	101	101	78	75.986
11/8/2002 12:37	0.0435	100.853	101.054	101	101	101	77.997	76
11/8/2002 12:37	0.087	99.289	99.118	100.997	101	101	78	75.986
11/8/2002 12:37	0.1305	97.682	97.496	100.988	100.986	101	77.997	75.986
11/8/2002 12:37	0.174	96.262	96.097	100.971	100.986	101	78	75.986
11/8/2002 12:37	0.2175	95.057	94.917	100.957	100.971	101	78	76
11/8/2002 12:37	0.261	94.025	93.92	100.94	100.942	101	77.994	76
11/8/2002 12:37	0.3045	93.078	92.998	100.922	100.928	101	78	76
11/8/2002 12:37	0.348	92.188	92.133	100.905	100.913	101	78	76
11/8/2002 12:37	0.3915	91.399	91.333	100.885	100.899	100.998	77.997	76
11/8/2002 12:37	0.435	90.682	90.625	100.865	100.884	100.996	77.997	76
11/8/2002 12:37	0.4785	90.008	89.98	100.848	100.87	100.996	77.997	75.986
11/8/2002 12:37	0.522	89.391	89.355	100.83	100.841	100.993	77.994	75.986
11/8/2002 12:37	0.5655	88.817	88.793	100.813	100.826	100.993	77.994	75.986
11/8/2002 12:37	0.609	88.315	88.291	100.796	100.812	100.991	77.994	76
11/8/2002 12:37	0.6525	87.813	87.803	100.781	100.798	100.987	77.994	76
11/8/2002 12:37	0.696	87.354	87.338	100.767	100.783	100.985	77.997	76
11/8/2002 12:38	0.7395	86.88	86.879	100.753	100.769	100.985	77.997	76
11/8/2002 12:38	0.783	86.421	86.406	100.738	100.754	100.983	77.994	75.971
11/8/2002 12:38	0.8265	85.934	85.906	100.721	100.74	100.98	77.997	75.986
11/8/2002 12:38	0.8708	85.431	85.412	100.707	100.711	100.98	77.997	75.986
11/8/2002 12:38	0.9178	85.015	85.008	100.692	100.696	100.978	77.997	75.986
11/8/2002 12:38	0.9677	84.614	84.629	100.681	100.682	100.976	77.997	75.986
11/8/2002 12:38	1.0203	84.255	84.267	100.666	100.667	100.976	77.997	75.986
11/8/2002 12:38	1.0762	83.896	83.905	100.649	100.653	100.974	78	75.986
11/8/2002 12:38	1.1353	83.509	83.517	100.635	100.653	100.972	78	75.986
11/8/2002 12:38	1.198	83.208	83.201	100.626	100.624	100.972	78.006	76
11/8/2002 12:38	1.2643	82.462	82.48	100.597	100.61	100.97	78.003	76
11/8/2002 12:38	1.3347	81.873	81.883	100.583	100.61	100.967	78	76
11/8/2002 12:38	1.4092	81.314	81.331	100.557	100.581	100.965	78	76.014
11/8/2002 12:38	1.4882	80.769	80.813	100.537	100.552	100.963	78.003	76
11/8/2002 12:38	1.5718	80.295	80.351	100.526	100.523	100.961	78.011	76
11/8/2002 12:38	1.6603	79.865	79.934	100.508	100.523	100.959	78.011	76
11/8/2002 12:39	1.7542	79.492	79.563	100.494	100.508	100.957	78.014	76
11/8/2002 12:39	1.8535	79.176	79.238	100.474	100.465	100.954	78.017	76
11/8/2002 12:39	1.9588	78.903	78.959	100.454	100.45	100.952	78.017	76
11/8/2002 12:39	2.0703	78.645	78.72	100.439	100.45	100.95	78.017	76
11/8/2002 12:39	2.1885	78.459	78.525	100.422	100.393	100.946	78.017	76
11/8/2002 12:39	2.3137	78.086	78.234	100.405	100.378	100.941	78.017	76
11/8/2002 12:39	2.4462	77.827	77.886	100.385	100.393	100.939	78.017	76
11/8/2002 12:39	2.5867	77.555	77.63	100.364	100.349	100.939	78.017	76
11/8/2002 12:40	2.7355	77.44	77.524	100.347	100.349	100.937	78.014	76

11/8/2002 12:40	2.893	77.483	77.567	100.336	100.32	100.933	78.014	76
11/8/2002 12:40	3.0598	77.54	77.613	100.324	100.335	100.931	78.014	76
11/8/2002 12:40	3.2367	77.569	77.65	100.321	100.306	100.928	78.014	76
11/8/2002 12:40	3.424	77.598	77.685	100.316	100.306	100.928	78.014	76
11/8/2002 12:40	3.6223	77.626	77.699	100.31	100.306	100.926	78.011	76
11/8/2002 12:41	3.8325	77.655	77.745	100.31	100.291	100.924	78.011	76
11/8/2002 12:41	4.0552	77.698	77.783	100.304	100.306	100.924	78.011	76
11/8/2002 12:41	4.291	77.727	77.806	100.298	100.32	100.922	78.006	76
11/8/2002 12:41	4.5408	77.741	77.814	100.293	100.291	100.92	78.003	76
11/8/2002 12:42	4.8055	77.741	77.82	100.295	100.306	100.922	78.009	76
11/8/2002 12:42	5.0858	77.741	77.82	100.295	100.32	100.92	78.006	76
11/8/2002 12:42	5.3827	77.741	77.82	100.295	100.306	100.918	78.006	76
11/8/2002 12:42	5.6972	77.741	77.82	100.29	100.306	100.918	78.006	76
11/8/2002 12:43	6.0303	77.741	77.817	100.29	100.306	100.915	78.006	76
11/8/2002 12:43	6.3832	77.727	77.817	100.29	100.306	100.915	78.006	76
11/8/2002 12:44	6.757	77.727	77.811	100.275	100.291	100.913	77.997	76
11/8/2002 12:44	7.153	77.727	77.808	100.284	100.306	100.913	78.006	76
11/8/2002 12:44	7.5723	77.727	77.808	100.278	100.277	100.909	78.003	76
11/8/2002 12:45	8.0167	77.712	77.797	100.27	100.277	100.909	77.994	76
11/8/2002 12:45	8.4873	77.727	77.783	100.247	100.291	100.902	77.989	76
11/8/2002 12:46	8.9858	77.727	77.794	100.267	100.291	100.902	77.997	76
11/8/2002 12:46	9.5138	77.727	77.797	100.278	100.306	100.902	78.003	76
11/8/2002 12:47	10.0732	77.712	77.794	100.264	100.291	100.902	78	76
11/8/2002 12:47	10.6657	77.712	77.791	100.272	100.277	100.9	78.003	76
11/8/2002 12:48	11.2932	77.756	77.791	100.27	100.306	100.902	78	76.014
11/8/2002 12:49	11.958	77.712	77.785	100.258	100.277	100.898	77.997	75.986
11/8/2002 12:49	12.6622	77.684	77.768	100.226	100.248	100.891	77.98	75.986
11/8/2002 12:50	13.408	77.669	77.771	100.229	100.248	100.891	77.983	75.986
11/8/2002 12:51	14.198	77.684	77.774	100.235	100.262	100.889	77.989	75.986
11/8/2002 12:52	15.0348	77.684	77.774	100.238	100.262	100.887	77.986	75.986
11/8/2002 12:53	15.9213	77.698	77.797	100.284	100.291	100.891	78.014	75.986
11/8/2002 12:54	16.8603	77.684	77.774	100.241	100.262	100.885	77.991	75.986
11/8/2002 12:55	17.855	77.684	77.774	100.238	100.262	100.878	77.991	75.986
11/8/2002 12:56	18.9087	77.684	77.78	100.252	100.277	100.881	78.003	76
11/8/2002 12:57	20.0247	77.669	77.768	100.241	100.277	100.876	77.997	76
11/8/2002 12:58	21.2068	77.698	77.785	100.27	100.277	100.874	78.014	76
11/8/2002 12:59	22.459	77.684	77.757	100.218	100.262	100.868	77.986	76
11/8/2002 13:01	23.7855	77.684	77.768	100.247	100.262	100.868	78.003	76
11/8/2002 13:02	25.1905	77.684	77.768	100.249	100.277	100.868	78.006	76
11/8/2002 13:03	26.6788	77.684	77.768	100.244	100.262	100.863	78	76
11/8/2002 13:05	28.2553	77.655	77.734	100.201	100.234	100.857	77.983	76
11/8/2002 13:07	29.9252	77.655	77.745	100.212	100.248	100.852	77.989	76
11/8/2002 13:08	31.694	77.684	77.768	100.252	100.262	100.855	78.011	76
11/8/2002 13:10	33.5677	77.669	77.754	100.229	100.248	100.852	78.003	76
11/8/2002 13:12	35.5523	77.655	77.734	100.201	100.234	100.844	77.986	76
11/8/2002 13:14	37.6547	77.641	77.734	100.198	100.234	100.844	77.986	76
11/8/2002 13:17	39.8815	77.655	77.739	100.215	100.234	100.837	78	76
11/8/2002 13:19	42.2403	77.641	77.731	100.203	100.234	100.835	77.994	76
11/8/2002 13:22	44.739	77.655	77.745	100.232	100.234	100.833	78.009	76
11/8/2002 13:24	47.3857	77.655	77.739	100.232	100.234	100.824	78.009	76
11/8/2002 13:27	50.1892	77.641	77.722	100.198	100.219	100.818	77.989	76
11/8/2002 13:30	53.1588	77.626	77.716	100.192	100.219	100.813	77.989	76
11/8/2002 13:33	56.3045	77.641	77.722	100.206	100.19	100.811	77.997	76.014
11/8/2002 13:36	59.6365	77.641	77.716	100.201	100.234	100.805	77.991	76.014
11/8/2002 13:40	63.166	77.626	77.705	100.192	100.219	100.8	77.989	76.014
11/8/2002 13:44	66.9045	77.598	77.688	100.157	100.19	100.794	77.968	76.014
11/8/2002 13:48	70.8647	77.612	77.699	100.18	100.19	100.789	77.983	76.014
11/8/2002 13:52	75.0595	77.612	77.702	100.18	100.176	100.783	77.98	76.014

11/8/2002 13:56	79.5028	77.612	77.693	100.172	100.19	100.779	77.974	76
11/8/2002 14:01	84.2095	77.598	77.688	100.169	100.161	100.772	77.971	76
11/8/2002 14:06	89.195	77.598	77.682	100.166	100.161	100.768	77.968	76
11/8/2002 14:11	94.4758	77.583	77.67	100.146	100.147	100.761	77.957	76.014
11/8/2002 14:17	100.0697	77.569	77.67	100.152	100.161	100.755	77.96	76.014
11/8/2002 14:23	105.995	77.583	77.682	100.175	100.147	100.748	77.974	76.014
11/8/2002 14:29	112.2713	77.569	77.659	100.137	100.147	100.739	77.954	76.014
11/8/2002 14:36	118.9197	77.569	77.659	100.149	100.147	100.735	77.96	76.014
11/8/2002 14:43	125.9618	77.555	77.644	100.134	100.147	100.729	77.954	76
11/8/2002 14:50	133.4213	77.555	77.644	100.137	100.132	100.722	77.96	76
11/8/2002 14:58	141.3228	77.555	77.639	100.129	100.132	100.718	77.963	76
11/8/2002 15:06	149.6925	77.54	77.63	100.117	100.118	100.709	77.963	76
11/8/2002 15:15	158.5582	77.555	77.633	100.129	100.118	100.703	77.971	76
11/8/2002 15:25	167.9492	77.54	77.616	100.111	100.118	100.696	77.963	76
11/8/2002 15:35	177.8967	77.526	77.616	100.109	100.132	100.687	77.957	76
11/8/2002 15:45	187.8967	77.526	77.616	100.111	100.103	100.681	77.954	76
11/8/2002 15:55	197.8967	77.526	77.607	100.103	100.103	100.674	77.945	76.014
11/8/2002 16:05	207.8967	77.512	77.604	100.091	100.089	100.67	77.94	76
11/8/2002 16:15	217.8967	77.512	77.601	100.097	100.103	100.663	77.943	76
11/8/2002 16:25	227.8967	77.512	77.596	100.091	100.089	100.657	77.94	76
11/8/2002 16:35	237.8967	77.483	77.578	100.063	100.06	100.65	77.931	76
11/8/2002 16:45	247.8967	77.483	77.587	100.08	100.06	100.644	77.943	76.014
11/8/2002 16:55	257.8967	77.469	77.575	100.063	100.074	100.637	77.937	76.014
11/8/2002 17:05	267.8967	77.483	77.581	100.071	100.074	100.635	77.943	76.029
11/8/2002 17:15	277.8967	77.483	77.578	100.071	100.06	100.631	77.94	76.029
11/8/2002 17:25	287.8967	77.469	77.57	100.063	100.06	100.624	77.931	76.029
11/8/2002 17:35	297.8967	77.483	77.561	100.057	100.046	100.62	77.925	76.014
11/8/2002 17:45	307.8967	77.483	77.561	100.057	100.06	100.618	77.931	76.014
11/8/2002 17:55	317.8967	77.469	77.561	100.054	100.06	100.611	77.931	76
11/8/2002 18:05	327.8967	77.469	77.558	100.051	100.046	100.607	77.937	76
11/8/2002 18:15	337.8967	77.469	77.55	100.051	100.046	100.603	77.943	76.014
11/8/2002 18:25	347.8967	77.454	77.55	100.045	100.031	100.598	77.943	76.029
11/8/2002 18:35	357.8967	77.454	77.547	100.042	100.031	100.598	77.94	76.014
11/8/2002 18:45	367.8967	77.454	77.544	100.039	100.031	100.594	77.934	76.014
11/8/2002 18:55	377.8967	77.454	77.544	100.034	100.046	100.59	77.931	76.014
11/8/2002 19:05	387.8967	77.454	77.541	100.034	100.031	100.588	77.934	76.029
11/8/2002 19:15	397.8967	77.454	77.538	100.034	100.031	100.583	77.94	76.029
11/8/2002 19:25	407.8967	77.44	77.535	100.031	100.017	100.579	77.943	76.014
11/8/2002 19:35	417.8967	77.426	77.532	100.028	100.017	100.579	77.948	76.014
11/8/2002 19:45	427.8967	77.44	77.529	100.025	100.031	100.572	77.951	76.014
11/8/2002 19:55	437.8967	77.44	77.529	100.022	100.017	100.57	77.951	76
11/8/2002 20:05	447.8967	77.44	77.529	100.022	100.017	100.568	77.951	76.014
11/8/2002 20:15	457.8967	77.44	77.527	100.019	100.002	100.564	77.945	76.014
11/8/2002 20:25	467.8967	77.426	77.524	100.016	100.031	100.559	77.945	76.029
11/8/2002 20:35	477.8967	77.411	77.521	100.016	100.002	100.557	77.951	76.029
11/8/2002 20:45	487.8967	77.426	77.521	100.014	100.002	100.555	77.957	76.029
11/8/2002 20:55	497.8967	77.426	77.518	100.011	100.002	100.551	77.96	76.029
11/8/2002 21:05	507.8967	77.426	77.515	100.008	99.988	100.548	77.963	76.043
11/8/2002 21:15	517.8967	77.411	77.515	100.005	100.002	100.546	77.963	76.043
11/8/2002 21:25	527.8967	77.411	77.512	100.008	99.988	100.544	77.966	76.043
11/8/2002 21:35	537.8967	77.411	77.512	100.005	99.988	100.54	77.968	76.029
11/8/2002 21:45	547.8967	77.397	77.506	100.002	99.988	100.538	77.968	76.043
11/8/2002 21:55	557.8967	77.411	77.506	99.999	100.017	100.535	77.966	76.029
11/8/2002 22:05	567.8967	77.411	77.501	99.999	100.017	100.535	77.966	76.043
11/8/2002 22:15	577.8967	77.411	77.503	99.996	100.002	100.529	77.963	76.043
11/8/2002 22:25	587.8967	77.397	77.501	99.993	100.002	100.533	77.966	76.043
11/8/2002 22:35	597.8967	77.397	77.501	99.991	100.002	100.527	77.971	76.043
11/8/2002 22:45	607.8967	77.397	77.495	99.991	100.002	100.525	77.974	76.043

11/8/2002 22:55	617.8967	77.397	77.495	99.991	99.988	100.52	77.974	76.043
11/8/2002 23:05	627.8967	77.382	77.492	99.991	99.988	100.514	77.974	76.043
11/8/2002 23:15	637.8967	77.382	77.492	99.988	99.988	100.516	77.971	76.029
11/8/2002 23:25	647.8967	77.397	77.498	99.996	100.002	100.518	77.971	76.029
11/8/2002 23:35	657.8967	77.397	77.498	99.996	100.002	100.516	77.974	76.058
11/8/2002 23:45	667.8967	77.397	77.498	99.996	99.988	100.512	77.971	76.058
11/8/2002 23:55	677.8967	77.397	77.498	99.996	99.988	100.516	77.971	76.058
11/9/2002 0:05	687.8967	77.397	77.495	99.993	99.988	100.514	77.971	76.058
11/9/2002 0:15	697.8967	77.397	77.498	99.993	99.988	100.512	78.003	76.058
11/9/2002 0:25	707.8967	77.397	77.495	99.993	99.988	100.509	78.06	76.058
11/9/2002 0:35	717.8967	77.382	77.495	99.993	99.973	100.514	78.095	76.043
11/9/2002 0:45	727.8967	77.382	77.492	99.993	99.973	100.509	78.118	76.058
11/9/2002 0:55	737.8967	77.382	77.492	99.993	99.973	100.505	78.141	76.043
11/9/2002 1:05	747.8967	77.382	77.489	99.991	99.973	100.503	78.158	76.058
11/9/2002 1:15	757.8967	77.397	77.489	99.991	99.988	100.505	78.178	76.058
11/9/2002 1:25	767.8967	77.382	77.489	99.988	99.988	100.503	78.204	76.058
11/9/2002 1:35	777.8967	77.397	77.486	99.988	99.973	100.503	78.218	76.058
11/9/2002 1:45	787.8967	77.397	77.486	99.988	99.973	100.501	78.233	76.058
11/9/2002 1:55	797.8967	77.382	77.486	99.985	99.973	100.501	78.244	76.072
11/9/2002 2:05	807.8967	77.382	77.483	99.985	99.973	100.498	78.256	76.058
11/9/2002 2:15	817.8967	77.382	77.483	99.985	99.973	100.494	78.264	76.058
11/9/2002 2:25	827.8967	77.382	77.486	99.982	99.973	100.494	78.27	76.058
11/9/2002 2:35	837.8967	77.382	77.483	99.982	99.973	100.494	78.279	76.058
11/9/2002 2:45	847.8967	77.382	77.483	99.982	99.973	100.492	78.287	76.058
11/9/2002 2:55	857.8967	77.368	77.483	99.979	99.959	100.49	78.296	76.058
11/9/2002 3:05	867.8967	77.368	77.483	99.979	99.973	100.49	78.299	76.072
11/9/2002 3:15	877.8967	77.382	77.48	99.976	99.959	100.494	78.31	76.058
11/9/2002 3:25	887.8967	77.368	77.48	99.979	99.959	100.49	78.316	76.058
11/9/2002 3:35	897.8967	77.368	77.48	99.979	99.959	100.49	78.319	76.058
11/9/2002 3:45	907.8967	77.368	77.478	99.982	99.944	100.494	78.33	76.058
11/9/2002 3:55	917.8967	77.368	77.478	99.982	99.944	100.492	78.333	76.058
11/9/2002 4:05	927.8967	77.368	77.478	99.979	99.959	100.485	78.339	76.058
11/9/2002 4:15	937.8967	77.368	77.48	99.982	99.959	100.485	78.356	76.058
11/9/2002 4:25	947.8967	77.368	77.475	99.982	99.944	100.49	78.368	76.058
11/9/2002 4:35	957.8967	77.368	77.478	99.979	99.944	100.488	78.382	76.072
11/9/2002 4:45	967.8967	77.368	77.475	99.979	99.944	100.488	78.396	76.072
11/9/2002 4:55	977.8967	77.382	77.475	99.979	99.944	100.488	78.405	76.072
11/9/2002 5:05	987.8967	77.382	77.475	99.979	99.944	100.485	78.414	76.072
11/9/2002 5:15	997.8967	77.382	77.475	99.979	99.959	100.485	78.379	76.072
11/9/2002 5:25	1007.8967	77.382	77.475	99.979	99.973	100.488	78.33	76.072
11/9/2002 5:35	1017.8967	77.382	77.472	99.979	99.959	100.485	78.302	76.072
11/9/2002 5:45	1027.8967	77.382	77.475	99.979	99.959	100.485	78.279	76.072
11/9/2002 5:55	1037.8967	77.368	77.472	99.976	99.959	100.485	78.261	76.072
11/9/2002 6:05	1047.8967	77.368	77.475	99.976	99.959	100.483	78.247	76.072
11/9/2002 6:15	1057.8967	77.368	77.469	99.976	99.959	100.481	78.235	76.058
11/9/2002 6:25	1067.8967	77.354	77.46	99.965	99.944	100.479	78.224	76.058
11/9/2002 6:35	1077.8967	77.368	77.46	99.962	99.944	100.477	78.218	76.058
11/9/2002 6:45	1087.8967	77.354	77.457	99.962	99.93	100.477	78.21	76.058
11/9/2002 6:55	1097.8967	77.354	77.457	99.962	99.93	100.475	78.201	76.058
11/9/2002 7:05	1107.8967	77.354	77.457	99.959	99.93	100.475	78.192	76.058
11/9/2002 7:15	1117.8967	77.354	77.455	99.959	99.93	100.472	78.187	76.058
11/9/2002 7:25	1127.8967	77.354	77.455	99.956	99.93	100.472	78.178	76.058
11/9/2002 7:35	1137.8967	77.339	77.455	99.956	99.93	100.47	78.172	76.058
11/9/2002 7:45	1147.8967	77.354	77.455	99.956	99.93	100.468	78.167	76.072
11/9/2002 7:55	1157.8967	77.339	77.457	99.956	99.93	100.468	78.167	76.072
11/9/2002 8:05	1167.8967	77.339	77.457	99.956	99.915	100.466	78.167	76.072
11/9/2002 8:15	1177.8967	77.339	77.455	99.959	99.93	100.466	78.172	76.072
11/9/2002 8:25	1187.8967	77.339	77.452	99.956	99.93	100.464	78.172	76.072

11/9/2002 8:35	1197.8967	77.339	77.452	99.956	99.915	100.466	78.178	76.072
11/9/2002 8:45	1207.8967	77.339	77.452	99.956	99.915	100.464	78.172	76.058
11/9/2002 8:55	1217.8967	77.339	77.452	99.953	99.915	100.462	78.172	76.058
11/9/2002 9:05	1227.8967	77.339	77.452	99.953	99.915	100.464	78.169	76.072
11/9/2002 9:15	1237.8967	77.339	77.449	99.953	99.915	100.462	78.169	76.058
11/9/2002 9:25	1247.8967	77.339	77.446	99.953	99.93	100.462	78.172	76.058
11/9/2002 9:35	1257.8967	77.354	77.449	99.953	99.915	100.462	78.175	76.058
11/9/2002 9:45	1267.8967	77.354	77.449	99.95	99.915	100.457	78.175	76.058
11/9/2002 9:55	1277.8967	77.339	77.449	99.95	99.944	100.457	78.175	76.043
11/9/2002 10:05	1287.8967	77.339	77.446	99.953	99.959	100.453	78.175	76.058
11/9/2002 10:15	1297.8967	77.339	77.446	99.953	99.93	100.457	78.175	76.058
11/9/2002 10:25	1307.8967	77.354	77.446	99.95	99.93	100.453	78.167	76.058
11/9/2002 10:35	1317.8967	77.339	77.449	99.95	99.944	100.451	78.167	76.043
11/9/2002 10:45	1327.8967	77.339	77.446	99.95	99.959	100.451	78.167	76.043
11/9/2002 10:55	1337.8967	77.339	77.443	99.947	99.959	100.446	78.167	76.058
11/9/2002 11:05	1347.8967	77.339	77.443	99.947	99.959	100.446	78.167	76.058
11/9/2002 11:15	1357.8967	77.325	77.44	99.945	99.944	100.446	78.164	76.043
11/9/2002 11:25	1367.8967	77.339	77.44	99.947	99.959	100.446	78.169	76.043
11/9/2002 11:35	1377.8967	77.339	77.443	99.947	99.959	100.442	78.167	76.058
11/9/2002 11:45	1387.8967	77.339	77.443	99.953	99.973	100.446	78.161	76.058
11/9/2002 11:55	1397.8967	77.339	77.434	99.933	99.944	100.44	78.146	76.043
11/9/2002 12:05	1407.8967	77.339	77.446	99.959	99.93	100.442	78.155	76.058
11/9/2002 12:15	1417.8967	77.311	77.42	99.919	99.915	100.433	78.121	76.043
11/9/2002 12:25	1427.8967	77.325	77.437	99.942	99.93	100.436	78.135	76.058
11/9/2002 12:35	1437.8967	77.339	77.432	99.933	99.93	100.433	78.123	76.058
11/9/2002 12:45	1447.8967	77.311	77.42	99.916	99.915	100.429	78.112	76.043
11/9/2002 12:55	1457.8967	77.325	77.426	99.927	99.93	100.429	78.115	76.043
11/9/2002 13:05	1467.8967	77.325	77.423	99.924	99.93	100.429	78.106	76.029
11/9/2002 13:15	1477.8967	77.325	77.409	99.901	99.915	100.427	78.086	76.029
11/9/2002 13:25	1487.8967	77.311	77.406	99.896	99.915	100.427	78.072	76.014
11/9/2002 13:35	1497.8967	77.311	77.42	99.924	99.915	100.427	78.078	76.014
11/9/2002 13:45	1507.8967	77.296	77.42	99.924	99.915	100.425	78.072	76.014
11/9/2002 13:55	1517.8967	77.325	77.423	99.933	99.93	100.425	78.075	76.029
11/9/2002 14:05	1527.8967	77.311	77.414	99.916	99.93	100.422	78.06	76.014
11/9/2002 14:15	1537.8967	77.325	77.437	99.953	99.93	100.425	78.083	76.029
11/9/2002 14:25	1547.8967	77.339	77.437	99.95	99.944	100.422	78.075	76.029
11/9/2002 14:35	1557.8967	77.325	77.432	99.936	99.944	100.422	78.06	76.014
11/9/2002 14:45	1567.8967	77.311	77.429	99.936	99.93	100.416	78.055	76.014
11/9/2002 14:55	1577.8967	77.311	77.414	99.922	99.915	100.416	78.034	76.014
11/9/2002 15:05	1587.8967	77.311	77.414	99.924	99.93	100.418	78.026	76.014
11/9/2002 15:15	1597.8967	77.311	77.417	99.924	99.915	100.416	78.02	76.014
11/9/2002 15:25	1607.8967	77.311	77.417	99.924	99.915	100.414	78.011	76.014
11/9/2002 15:35	1617.8967	77.311	77.423	99.924	99.915	100.418	78.02	76.014
11/9/2002 15:45	1627.8967	77.311	77.417	99.93	99.915	100.412	78.029	76
11/9/2002 15:55	1637.8967	77.311	77.417	99.922	99.901	100.412	78.023	76
11/9/2002 16:05	1647.8967	77.311	77.42	99.927	99.915	100.412	78.023	76
11/9/2002 16:15	1657.8967	77.311	77.423	99.927	99.901	100.412	78.023	76
11/9/2002 16:25	1667.8967	77.311	77.417	99.924	99.901	100.409	78.017	76.014
11/9/2002 16:35	1677.8967	77.311	77.42	99.922	99.915	100.412	78.014	76.014
11/9/2002 16:45	1687.8967	77.311	77.423	99.924	99.915	100.409	78.006	76
11/9/2002 16:55	1697.8967	77.296	77.417	99.919	99.93	100.405	78.003	76.014
11/9/2002 17:05	1707.8967	77.296	77.417	99.922	99.93	100.407	78.003	76.014
11/9/2002 17:15	1717.8967	77.311	77.417	99.922	99.93	100.407	78	76.014
11/9/2002 17:25	1727.8967	77.296	77.414	99.922	99.93	100.405	78.003	76.014
11/9/2002 17:35	1737.8967	77.296	77.414	99.922	99.93	100.405	78.003	76.014
11/9/2002 17:45	1747.8967	77.296	77.414	99.919	99.93	100.405	78.003	76.014
11/9/2002 17:55	1757.8967	77.311	77.414	99.919	99.93	100.403	77.997	76.014
11/9/2002 18:05	1767.8967	77.311	77.414	99.919	99.93	100.403	77.994	76.014

11/9/2002 18:15	1777.8967	77.296	77.414	99.919	99.915	100.403	77.991	76.014
11/9/2002 18:25	1787.8967	77.296	77.414	99.919	99.93	100.401	77.991	76
11/9/2002 18:35	1797.8967	77.296	77.414	99.919	99.93	100.399	77.986	76.014
11/9/2002 18:45	1807.8967	77.296	77.417	99.919	99.901	100.399	77.989	76.014
11/9/2002 18:55	1817.8967	77.296	77.417	99.916	99.915	100.399	77.991	76
11/9/2002 19:05	1827.8967	77.311	77.414	99.916	99.944	100.396	77.994	76.014
11/9/2002 19:15	1837.8967	77.296	77.411	99.919	99.901	100.399	77.997	76
11/9/2002 19:25	1847.8967	77.296	77.411	99.919	99.901	100.396	77.994	76
11/9/2002 19:35	1857.8967	77.311	77.417	99.916	99.915	100.399	77.994	75.986
11/9/2002 19:45	1867.8967	77.311	77.411	99.919	99.915	100.394	77.986	76
11/9/2002 19:55	1877.8967	77.296	77.409	99.916	99.915	100.396	77.983	76
11/9/2002 20:05	1887.8967	77.296	77.411	99.913	99.915	100.394	77.98	76.014
11/9/2002 20:15	1897.8967	77.296	77.411	99.913	99.93	100.394	77.971	76
11/9/2002 20:25	1907.8967	77.296	77.409	99.916	99.915	100.394	77.971	76
11/9/2002 20:35	1917.8967	77.296	77.409	99.916	99.915	100.394	77.983	75.986
11/9/2002 20:45	1927.8967	77.296	77.409	99.916	99.901	100.394	77.989	76
11/9/2002 20:55	1937.8967	77.311	77.409	99.913	99.93	100.39	77.986	75.986
11/9/2002 21:05	1947.8967	77.296	77.414	99.916	99.915	100.39	77.98	76.014
11/9/2002 21:15	1957.8967	77.296	77.411	99.919	99.915	100.392	77.977	76.014
11/9/2002 21:25	1967.8967	77.296	77.414	99.916	99.915	100.392	77.974	76.014
11/9/2002 21:35	1977.8967	77.296	77.409	99.916	99.915	100.39	77.971	76.014
11/9/2002 21:45	1987.8967	77.282	77.409	99.916	99.901	100.388	77.968	76.014
11/9/2002 21:55	1997.8967	77.282	77.409	99.916	99.901	100.39	77.968	76.014
11/9/2002 22:05	2007.8967	77.311	77.414	99.913	99.915	100.388	77.968	76.014
11/9/2002 22:15	2017.8967	77.296	77.411	99.913	99.915	100.386	77.968	76.014
11/9/2002 22:25	2027.8967	77.296	77.411	99.913	99.915	100.386	77.971	76.014
11/9/2002 22:35	2037.8967	77.296	77.411	99.913	99.915	100.388	77.971	76.014
11/9/2002 22:45	2047.8967	77.296	77.409	99.916	99.915	100.388	77.966	76.014
11/9/2002 22:55	2057.8967	77.296	77.411	99.913	99.915	100.388	77.963	76.014
11/9/2002 23:05	2067.8967	77.296	77.409	99.916	99.901	100.388	77.957	76.014
11/9/2002 23:15	2077.8967	77.296	77.411	99.913	99.93	100.386	77.948	76.014
11/9/2002 23:25	2087.8967	77.296	77.42	99.924	99.93	100.39	77.948	76.014
11/9/2002 23:35	2097.8967	77.296	77.417	99.924	99.93	100.39	77.951	76.014
11/9/2002 23:45	2107.8967	77.296	77.417	99.924	99.944	100.39	77.951	76.014
11/9/2002 23:55	2117.8967	77.296	77.417	99.927	99.944	100.39	77.954	76.014
11/10/2002 0:05	2127.8967	77.296	77.417	99.924	99.959	100.388	77.951	76.014
11/10/2002 0:15	2137.8967	77.311	77.42	99.924	99.944	100.39	77.945	76.029
11/10/2002 0:25	2147.8967	77.311	77.42	99.924	99.944	100.39	77.937	76.029
11/10/2002 0:35	2157.8967	77.311	77.42	99.924	99.959	100.388	77.928	76.014
11/10/2002 0:45	2167.8967	77.311	77.423	99.927	99.944	100.392	77.92	76.029
11/10/2002 0:55	2177.8967	77.311	77.42	99.927	99.959	100.39	77.917	76.029
11/10/2002 1:05	2187.8967	77.311	77.42	99.93	99.959	100.39	77.911	76.029
11/10/2002 1:15	2197.8967	77.311	77.42	99.93	99.944	100.39	77.908	76.029
11/10/2002 1:25	2207.8967	77.311	77.42	99.93	99.944	100.392	77.908	76.029
11/10/2002 1:35	2217.8967	77.311	77.423	99.93	99.944	100.392	77.908	76.029
11/10/2002 1:45	2227.8967	77.296	77.42	99.93	99.944	100.392	77.908	76.029
11/10/2002 1:55	2237.8967	77.296	77.42	99.93	99.944	100.394	77.905	76.029
11/10/2002 2:05	2247.8967	77.296	77.42	99.93	99.944	100.394	77.902	76.014
11/10/2002 2:15	2257.8967	77.296	77.423	99.93	99.944	100.394	77.897	76.014
11/10/2002 2:25	2267.8967	77.311	77.42	99.93	99.944	100.394	77.888	76.014
11/10/2002 2:35	2277.8967	77.296	77.423	99.93	99.944	100.394	77.882	76.014
11/10/2002 2:45	2287.8967	77.296	77.423	99.93	99.944	100.396	77.877	76.014
11/10/2002 2:55	2297.8967	77.296	77.42	99.93	99.944	100.396	77.871	76.029
11/10/2002 3:05	2307.8967	77.296	77.423	99.93	99.944	100.396	77.862	76.029
11/10/2002 3:15	2317.8967	77.311	77.423	99.933	99.944	100.396	77.856	76.014
11/10/2002 3:25	2327.8967	77.296	77.423	99.933	99.959	100.399	77.854	76.029
11/10/2002 3:35	2337.8967	77.296	77.423	99.93	99.959	100.396	77.854	76.029
11/10/2002 3:45	2347.8967	77.311	77.426	99.93	99.959	100.396	77.854	76.029

11/10/2002 3:55	2357.8967	77.325	77.429	99.933	99.959	100.396	77.854	76.029
11/10/2002 4:05	2367.8967	77.311	77.429	99.936	99.973	100.401	77.854	76.029
11/10/2002 4:15	2377.8967	77.311	77.426	99.936	99.959	100.403	77.854	76.029
11/10/2002 4:25	2387.8967	77.311	77.426	99.939	99.959	100.401	77.845	76.029
11/10/2002 4:35	2397.8967	77.311	77.426	99.939	99.973	100.405	77.842	76.029
11/10/2002 4:45	2407.8967	77.311	77.429	99.939	99.959	100.405	77.839	76.029
11/10/2002 4:55	2417.8967	77.311	77.429	99.939	99.973	100.405	77.839	76.029
11/10/2002 5:05	2427.8967	77.311	77.429	99.939	99.973	100.405	77.839	76.029
11/10/2002 5:15	2437.8967	77.311	77.432	99.942	99.973	100.407	77.836	76.029
11/10/2002 5:25	2447.8967	77.311	77.432	99.942	99.959	100.407	77.836	76.029
11/10/2002 5:35	2457.8967	77.311	77.432	99.942	99.959	100.412	77.839	76.029
11/10/2002 5:45	2467.8967	77.311	77.434	99.945	99.959	100.409	77.842	76.029
11/10/2002 5:55	2477.8967	77.311	77.434	99.945	99.959	100.409	77.839	76.029
11/10/2002 6:05	2487.8967	77.311	77.434	99.945	99.973	100.409	77.836	76.029
11/10/2002 6:15	2497.8967	77.311	77.432	99.945	99.959	100.409	77.833	76.029
11/10/2002 6:25	2507.8967	77.296	77.423	99.933	99.973	100.407	77.831	76.043
11/10/2002 6:35	2517.8967	77.296	77.42	99.93	99.973	100.405	77.825	76.043
11/10/2002 6:45	2527.8967	77.296	77.423	99.93	99.959	100.405	77.828	76.043
11/10/2002 6:55	2537.8967	77.296	77.426	99.93	99.959	100.405	77.828	76.043
11/10/2002 7:05	2547.8967	77.296	77.426	99.93	99.959	100.405	77.828	76.043
11/10/2002 7:15	2557.8967	77.311	77.426	99.93	99.959	100.407	77.831	76.043
11/10/2002 7:25	2567.8967	77.311	77.426	99.93	99.959	100.407	77.839	76.043
11/10/2002 7:35	2577.8967	77.311	77.426	99.93	99.959	100.405	77.845	76.043
11/10/2002 7:45	2587.8967	77.311	77.426	99.93	99.959	100.405	77.851	76.043
11/10/2002 7:55	2597.8967	77.311	77.426	99.93	99.959	100.405	77.856	76.043
11/10/2002 8:05	2607.8967	77.311	77.426	99.93	99.959	100.405	77.865	76.043
11/10/2002 8:15	2617.8967	77.311	77.426	99.936	99.959	100.407	77.871	76.058
11/10/2002 8:25	2627.8967	77.311	77.426	99.936	99.959	100.407	77.877	76.043
11/10/2002 8:35	2637.8967	77.311	77.426	99.933	99.959	100.403	77.879	76.043
11/10/2002 8:45	2647.8967	77.311	77.426	99.933	99.959	100.405	77.882	76.043
11/10/2002 8:55	2657.8967	77.296	77.426	99.936	99.959	100.405	77.885	76.043
11/10/2002 9:05	2667.8967	77.311	77.426	99.936	99.959	100.405	77.894	76.043
11/10/2002 9:15	2677.8967	77.311	77.429	99.936	99.959	100.405	77.899	76.043
11/10/2002 9:25	2687.8967	77.311	77.423	99.93	99.959	100.403	77.905	76.043
11/10/2002 9:35	2697.8967	77.311	77.426	99.933	99.959	100.399	77.908	76.043
11/10/2002 9:45	2707.8967	77.296	77.423	99.933	99.959	100.401	77.911	76.043
11/10/2002 9:55	2717.8967	77.296	77.423	99.93	99.944	100.401	77.908	76.043
11/10/2002 10:05	2727.8967	77.296	77.423	99.93	99.944	100.401	77.905	76.043
11/10/2002 10:15	2737.8967	77.296	77.423	99.933	99.944	100.401	77.905	76.043
11/10/2002 10:25	2747.8967	77.311	77.423	99.936	99.959	100.401	77.908	76.043
11/10/2002 10:35	2757.8967	77.311	77.423	99.93	99.959	100.396	77.905	76.043
11/10/2002 10:45	2767.8967	77.296	77.42	99.93	99.944	100.396	77.908	76.029
11/10/2002 10:55	2777.8967	77.296	77.42	99.933	99.944	100.399	77.911	76.029
11/10/2002 11:05	2787.8967	77.296	77.42	99.93	99.959	100.396	77.911	76.043
11/10/2002 11:15	2797.8967	77.311	77.423	99.93	99.959	100.394	77.908	76.043
11/10/2002 11:25	2807.8967	77.296	77.417	99.93	99.944	100.394	77.905	76.029
11/10/2002 11:35	2817.8967	77.296	77.42	99.933	99.93	100.396	77.897	76.043
11/10/2002 11:45	2827.8967	77.296	77.417	99.927	99.959	100.394	77.882	76.043
11/10/2002 11:55	2837.8967	77.311	77.417	99.924	99.93	100.39	77.877	76.043
11/10/2002 12:05	2847.8967	77.282	77.414	99.924	99.915	100.392	77.874	76.029
11/10/2002 12:15	2857.8967	77.296	77.42	99.927	99.915	100.39	77.874	76.029
11/10/2002 12:25	2867.8967	77.296	77.423	99.933	99.915	100.39	77.874	76.029
11/10/2002 12:35	2877.8967	77.296	77.42	99.93	99.93	100.39	77.874	76.014
11/10/2002 12:45	2887.8967	77.296	77.411	99.924	99.93	100.388	77.868	76.014
11/10/2002 12:55	2897.8967	77.282	77.414	99.93	99.93	100.39	77.868	76
11/10/2002 13:05	2907.8967	77.296	77.411	99.922	99.915	100.39	77.856	76.014
11/10/2002 13:15	2917.8967	77.296	77.411	99.919	99.93	100.39	77.848	76.014
11/10/2002 13:25	2927.8967	77.296	77.411	99.919	99.93	100.386	77.839	76.014

11/10/2002 13:35	2937.8967	77.296	77.406	99.913	99.944	100.386	77.819	76
11/10/2002 13:45	2947.8967	77.282	77.409	99.916	99.93	100.388	77.81	76
11/10/2002 13:55	2957.8967	77.282	77.403	99.916	99.915	100.386	77.805	76.014
11/10/2002 14:05	2967.8967	77.282	77.406	99.913	99.915	100.381	77.796	76
11/10/2002 14:15	2977.8967	77.282	77.409	99.913	99.915	100.386	77.796	76
11/10/2002 14:25	2987.8967	77.282	77.397	99.907	99.915	100.379	77.79	75.986
11/10/2002 14:35	2997.8967	77.282	77.409	99.919	99.915	100.383	77.793	75.986
11/10/2002 14:45	3007.8967	77.282	77.406	99.922	99.915	100.383	77.782	75.971
11/10/2002 14:55	3017.8967	77.282	77.406	99.91	99.93	100.381	77.767	76
11/10/2002 15:05	3027.8967	77.282	77.403	99.907	99.915	100.377	77.759	76
11/10/2002 15:15	3037.8967	77.296	77.411	99.916	99.915	100.381	77.765	76.014
11/10/2002 15:25	3047.8967	77.282	77.417	99.927	99.944	100.381	77.765	76
11/10/2002 15:35	3057.8967	77.268	77.414	99.924	99.93	100.379	77.759	75.986
11/10/2002 15:45	3067.8967	77.282	77.411	99.924	99.915	100.379	77.759	76
11/10/2002 15:55	3077.8967	77.282	77.406	99.916	99.915	100.381	77.756	76
11/10/2002 16:05	3087.8967	77.282	77.406	99.916	99.944	100.379	77.753	76
11/10/2002 16:15	3097.8967	77.282	77.411	99.919	99.944	100.379	77.744	75.986
11/10/2002 16:25	3107.8967	77.296	77.409	99.91	99.944	100.381	77.73	75.986
11/10/2002 16:35	3117.8967	77.282	77.406	99.913	99.93	100.381	77.727	75.986
11/10/2002 16:45	3127.8967	77.282	77.409	99.916	99.93	100.379	77.727	75.986
11/10/2002 16:55	3137.8967	77.282	77.406	99.916	99.93	100.379	77.724	75.986
11/10/2002 17:05	3147.8967	77.296	77.409	99.919	99.915	100.379	77.724	75.986
11/10/2002 17:15	3157.8967	77.282	77.411	99.916	99.915	100.377	77.724	75.986
11/10/2002 17:25	3167.8967	77.296	77.409	99.916	99.915	100.381	77.724	75.986
11/10/2002 17:35	3177.8967	77.282	77.409	99.919	99.915	100.377	77.719	75.971
11/10/2002 17:45	3187.8967	77.296	77.409	99.916	99.915	100.379	77.71	75.971
11/10/2002 17:55	3197.8967	77.296	77.411	99.916	99.915	100.379	77.707	75.986
11/10/2002 18:05	3207.8967	77.296	77.411	99.916	99.915	100.375	77.701	75.986
11/10/2002 18:15	3217.8967	77.296	77.409	99.919	99.915	100.379	77.701	75.986
11/10/2002 18:25	3227.8967	77.296	77.409	99.916	99.915	100.379	77.704	75.986
11/10/2002 18:35	3237.8967	77.296	77.411	99.916	99.915	100.379	77.704	76
11/10/2002 18:45	3247.8967	77.282	77.409	99.916	99.915	100.379	77.71	76
11/10/2002 18:55	3257.8967	77.296	77.409	99.919	99.915	100.377	77.713	75.986
11/10/2002 19:05	3267.8967	77.282	77.411	99.919	99.901	100.381	77.713	75.986
11/10/2002 19:15	3277.8967	77.296	77.411	99.919	99.901	100.375	77.71	75.986
11/10/2002 19:25	3287.8967	77.282	77.414	99.916	99.915	100.375	77.707	76
11/10/2002 19:35	3297.8967	77.282	77.411	99.919	99.915	100.375	77.701	75.986
11/10/2002 19:45	3307.8967	77.282	77.411	99.922	99.886	100.377	77.698	76
11/10/2002 19:55	3317.8967	77.296	77.414	99.919	99.901	100.375	77.701	76
11/10/2002 20:05	3327.8967	77.282	77.411	99.919	99.901	100.375	77.704	76
11/10/2002 20:15	3337.8967	77.282	77.411	99.919	99.901	100.375	77.704	75.986
11/10/2002 20:25	3347.8967	77.282	77.406	99.919	99.901	100.375	77.707	75.971
11/10/2002 20:35	3357.8967	77.268	77.411	99.916	99.915	100.375	77.704	75.971
11/10/2002 20:45	3367.8967	77.296	77.411	99.919	99.901	100.377	77.698	76
11/10/2002 20:55	3377.8967	77.282	77.409	99.919	99.901	100.377	77.693	75.986
11/10/2002 21:05	3387.8967	77.282	77.409	99.919	99.901	100.375	77.687	75.986
11/10/2002 21:15	3397.8967	77.282	77.409	99.919	99.886	100.377	77.678	75.986
11/10/2002 21:25	3407.8967	77.296	77.414	99.919	99.886	100.377	77.684	75.986
11/10/2002 21:35	3417.8967	77.282	77.411	99.916	99.901	100.377	77.681	75.986
11/10/2002 21:45	3427.8967	77.296	77.411	99.916	99.886	100.375	77.681	76
11/10/2002 21:55	3437.8967	77.282	77.411	99.922	99.886	100.377	77.69	75.986
11/10/2002 22:05	3447.8967	77.282	77.409	99.919	99.886	100.375	77.687	75.986
11/10/2002 22:15	3457.8967	77.282	77.409	99.922	99.872	100.377	77.681	75.986
11/10/2002 22:25	3467.8967	77.268	77.414	99.922	99.872	100.375	77.675	75.971
11/10/2002 22:35	3477.8967	77.296	77.417	99.924	99.872	100.379	77.678	75.986
11/10/2002 22:45	3487.8967	77.282	77.417	99.922	99.886	100.377	77.675	75.971
11/10/2002 22:55	3497.8967	77.296	77.411	99.922	99.872	100.377	77.67	75.986
11/10/2002 23:05	3507.8967	77.296	77.411	99.924	99.886	100.375	77.664	75.986

11/10/2002 23:15	3517.8967	77.282	77.414	99.922	99.872	100.375	77.661	76.014
11/10/2002 23:25	3527.8967	77.282	77.414	99.922	99.872	100.375	77.655	76.014
11/10/2002 23:35	3537.8967	77.282	77.414	99.922	99.901	100.373	77.655	76
11/10/2002 23:45	3547.8967	77.282	77.411	99.922	99.872	100.375	77.652	76.014
11/10/2002 23:55	3557.8967	77.282	77.411	99.919	99.858	100.373	77.65	76
11/11/2002 0:05	3567.8967	77.282	77.411	99.919	99.858	100.375	77.65	76
11/11/2002 0:15	3577.8967	77.282	77.411	99.922	99.858	100.375	77.65	76
11/11/2002 0:25	3587.8967	77.282	77.411	99.919	99.843	100.373	77.644	76
11/11/2002 0:35	3597.8967	77.282	77.411	99.919	99.843	100.373	77.635	75.986
11/11/2002 0:45	3607.8967	77.282	77.411	99.919	99.872	100.373	77.63	76.014
11/11/2002 0:55	3617.8967	77.282	77.411	99.919	99.872	100.373	77.621	76
11/11/2002 1:05	3627.8967	77.282	77.411	99.919	99.872	100.373	77.612	76
11/11/2002 1:15	3637.8967	77.282	77.411	99.916	99.872	100.373	77.609	76
11/11/2002 1:25	3647.8967	77.282	77.411	99.916	99.858	100.37	77.609	76
11/11/2002 1:35	3657.8967	77.282	77.411	99.919	99.872	100.37	77.609	76
11/11/2002 1:45	3667.8967	77.282	77.411	99.919	99.858	100.373	77.609	76
11/11/2002 1:55	3677.8967	77.282	77.411	99.919	99.858	100.37	77.612	76
11/11/2002 2:05	3687.8967	77.282	77.409	99.919	99.858	100.37	77.607	76
11/11/2002 2:15	3697.8967	77.268	77.409	99.919	99.858	100.37	77.601	75.986
11/11/2002 2:25	3707.8967	77.282	77.409	99.919	99.872	100.373	77.595	76
11/11/2002 2:35	3717.8967	77.282	77.409	99.916	99.872	100.37	77.589	75.986
11/11/2002 2:45	3727.8967	77.282	77.409	99.916	99.886	100.37	77.584	75.986
11/11/2002 2:55	3737.8967	77.268	77.409	99.916	99.858	100.37	77.575	75.986
11/11/2002 3:05	3747.8967	77.268	77.409	99.916	99.872	100.368	77.569	75.986
11/11/2002 3:15	3757.8967	77.282	77.409	99.916	99.872	100.368	77.569	75.986
11/11/2002 3:25	3767.8967	77.282	77.409	99.916	99.872	100.368	77.566	75.986
11/11/2002 3:35	3777.8967	77.268	77.409	99.916	99.886	100.37	77.569	75.986
11/11/2002 3:45	3787.8967	77.268	77.409	99.913	99.901	100.37	77.569	76
11/11/2002 3:55	3797.8967	77.282	77.409	99.916	99.872	100.37	77.569	76
11/11/2002 4:05	3807.8967	77.282	77.411	99.916	99.886	100.368	77.572	76
11/11/2002 4:15	3817.8967	77.282	77.411	99.916	99.872	100.37	77.572	76
11/11/2002 4:25	3827.8967	77.282	77.409	99.916	99.886	100.368	77.569	76
11/11/2002 4:35	3837.8967	77.296	77.411	99.916	99.886	100.37	77.566	76
11/11/2002 4:45	3847.8967	77.282	77.411	99.916	99.886	100.368	77.561	76
11/11/2002 4:55	3857.8967	77.282	77.411	99.916	99.901	100.368	77.552	76
11/11/2002 5:05	3867.8967	77.282	77.411	99.916	99.886	100.368	77.546	76
11/11/2002 5:15	3877.8967	77.282	77.411	99.916	99.901	100.368	77.543	76
11/11/2002 5:25	3887.8967	77.282	77.411	99.916	99.886	100.368	77.538	75.986
11/11/2002 5:35	3897.8967	77.282	77.411	99.916	99.886	100.37	77.535	76
11/11/2002 5:45	3907.8967	77.282	77.411	99.916	99.901	100.368	77.532	76
11/11/2002 5:55	3917.8967	77.282	77.411	99.919	99.872	100.368	77.529	76
11/11/2002 6:05	3927.8967	77.268	77.411	99.919	99.872	100.368	77.523	76
11/11/2002 6:15	3937.8967	77.282	77.411	99.919	99.886	100.37	77.52	76
11/11/2002 6:25	3947.8967	77.282	77.411	99.919	99.872	100.368	77.515	75.986
11/11/2002 6:35	3957.8967	77.282	77.411	99.922	99.886	100.37	77.515	76
11/11/2002 6:45	3967.8967	77.282	77.411	99.922	99.886	100.368	77.515	76
11/11/2002 6:55	3977.8967	77.282	77.411	99.922	99.901	100.375	77.518	76
11/11/2002 7:05	3987.8967	77.268	77.414	99.922	99.886	100.375	77.52	76
11/11/2002 7:15	3997.8967	77.282	77.411	99.922	99.886	100.37	77.523	76
11/11/2002 7:25	4007.8967	77.268	77.414	99.922	99.886	100.373	77.526	76
11/11/2002 7:35	4017.8967	77.282	77.414	99.922	99.901	100.375	77.523	76
11/11/2002 7:45	4027.8967	77.268	77.414	99.922	99.886	100.373	77.518	76
11/11/2002 7:55	4037.8967	77.282	77.414	99.922	99.886	100.373	77.518	76
11/11/2002 8:05	4047.8967	77.282	77.417	99.924	99.886	100.375	77.52	76
11/11/2002 8:15	4057.8967	77.282	77.414	99.924	99.901	100.375	77.523	76
11/11/2002 8:25	4067.8967	77.268	77.414	99.924	99.901	100.375	77.532	76.014
11/11/2002 8:35	4077.8967	77.282	77.414	99.924	99.886	100.375	77.538	76.014
11/11/2002 8:45	4087.8967	77.282	77.414	99.924	99.901	100.379	77.54	76.014

11/11/2002 8:55	4097.8967	77.268	77.417	99.924	99.886	100.377	77.546	76
11/11/2002 9:05	4107.8967	77.282	77.417	99.927	99.901	100.381	77.555	76
11/11/2002 9:15	4117.8967	77.282	77.417	99.927	99.901	100.377	77.561	76
11/11/2002 9:25	4127.8967	77.282	77.42	99.927	99.901	100.379	77.566	76
11/11/2002 9:35	4137.8967	77.282	77.423	99.93	99.915	100.379	77.572	76.014
11/11/2002 9:45	4147.8967	77.296	77.42	99.933	99.901	100.379	77.578	76.014
11/11/2002 9:55	4157.8967	77.296	77.42	99.927	99.915	100.377	77.575	76.014
11/11/2002 10:05	4167.8967	77.282	77.42	99.93	99.915	100.381	77.584	76
11/11/2002 10:15	4177.8967	77.282	77.42	99.93	99.915	100.381	77.586	76.014
11/11/2002 10:25	4187.8967	77.296	77.423	99.933	99.915	100.381	77.595	76
11/11/2002 10:35	4197.8967	77.296	77.42	99.927	99.901	100.381	77.595	76.014
11/11/2002 10:45	4207.8967	77.282	77.423	99.93	99.886	100.383	77.598	76.014
11/11/2002 10:55	4217.8967	77.282	77.42	99.93	99.901	100.379	77.598	76.014
11/11/2002 11:05	4227.8967	77.282	77.423	99.936	99.901	100.383	77.601	76.014
11/11/2002 11:15	4237.8967	77.282	77.417	99.927	99.886	100.379	77.598	76
11/11/2002 11:25	4247.8967	77.296	77.417	99.924	99.886	100.379	77.598	76
11/11/2002 11:35	4257.8967	77.268	77.423	99.93	99.886	100.381	77.607	75.986
11/11/2002 11:45	4267.8967	77.282	77.417	99.933	99.886	100.381	77.601	76
11/11/2002 11:55	4277.8967	77.282	77.42	99.936	99.886	100.381	77.607	76
11/11/2002 12:05	4287.8967	77.282	77.411	99.927	99.886	100.379	77.598	76
11/11/2002 12:15	4297.8967	77.282	77.414	99.927	99.901	100.381	77.595	76
11/11/2002 12:25	4307.8967	77.282	77.411	99.919	99.901	100.379	77.589	76
11/11/2002 12:35	4317.8967	77.296	77.42	99.927	99.915	100.381	77.598	76
11/11/2002 12:45	4327.8967	77.282	77.42	99.933	99.886	100.383	77.601	76
11/11/2002 12:55	4337.8967	77.282	77.417	99.936	99.901	100.379	77.607	76
11/11/2002 13:05	4347.8967	77.282	77.417	99.93	99.901	100.377	77.607	75.986
11/11/2002 13:15	4357.8967	77.282	77.414	99.924	99.901	100.377	77.609	75.986
11/11/2002 13:25	4367.8967	77.282	77.417	99.936	99.886	100.377	77.618	75.986
11/11/2002 13:35	4377.8967	77.282	77.417	99.922	99.872	100.375	77.609	75.971
11/11/2002 13:45	4387.8967	77.282	77.414	99.924	99.872	100.377	77.612	75.971
11/11/2002 13:55	4397.8967	77.282	77.411	99.927	99.872	100.377	77.609	75.971
11/11/2002 14:05	4407.8967	77.268	77.409	99.922	99.872	100.375	77.604	75.971
11/11/2002 14:15	4417.8967	77.296	77.42	99.933	99.872	100.375	77.609	76
11/11/2002 14:25	4427.8967	77.268	77.409	99.922	99.872	100.375	77.604	76
11/11/2002 14:35	4437.8967	77.268	77.414	99.919	99.915	100.375	77.607	75.986
11/11/2002 14:45	4447.8967	77.282	77.417	99.927	99.872	100.375	77.609	75.986
11/11/2002 14:55	4457.8967	77.282	77.42	99.93	99.886	100.373	77.618	75.986
11/11/2002 15:05	4467.8967	77.282	77.417	99.924	99.872	100.373	77.618	75.986
11/11/2002 15:15	4477.8967	77.282	77.42	99.924	99.944	100.375	77.624	75.986
11/11/2002 15:25	4487.8967	77.296	77.42	99.924	99.944	100.375	77.627	75.971
11/11/2002 15:35	4497.8967	77.268	77.417	99.924	99.901	100.373	77.652	75.971
11/11/2002 15:45	4507.8967	77.282	77.417	99.93	99.915	100.375	77.687	75.986
11/11/2002 15:55	4517.8967	77.268	77.414	99.93	99.93	100.373	77.687	75.971
11/11/2002 16:05	4527.8967	77.282	77.417	99.93	99.915	100.373	77.687	75.986
11/11/2002 16:15	4537.8967	77.282	77.411	99.919	99.915	100.377	77.684	75.957
11/11/2002 16:25	4547.8967	77.296	77.42	99.927	99.93	100.379	77.693	75.971
11/11/2002 16:35	4557.8967	77.282	77.42	99.924	99.915	100.377	77.693	75.971
11/11/2002 16:45	4567.8967	77.282	77.411	99.924	99.915	100.379	77.696	75.971
11/11/2002 16:55	4577.8967	77.268	77.417	99.927	99.915	100.377	77.704	75.971
11/11/2002 17:05	4587.8967	77.282	77.417	99.927	99.915	100.377	77.704	75.971
11/11/2002 17:15	4597.8967	77.282	77.417	99.927	99.915	100.377	77.704	75.971
11/11/2002 17:25	4607.8967	77.296	77.417	99.924	99.915	100.377	77.704	75.957
11/11/2002 17:35	4617.8967	77.296	77.417	99.924	99.915	100.377	77.701	75.957
11/11/2002 17:45	4627.8967	77.282	77.42	99.927	99.93	100.377	77.701	75.957
11/11/2002 17:55	4637.8967	77.296	77.42	99.927	99.93	100.375	77.704	75.957
11/11/2002 18:05	4647.8967	77.296	77.42	99.927	99.93	100.375	77.71	75.957
11/11/2002 18:15	4657.8967	77.296	77.417	99.927	99.915	100.375	77.716	75.957
11/11/2002 18:25	4667.8967	77.296	77.42	99.927	99.915	100.377	77.724	75.957

11/11/2002 18:35	4677.8967	77.296	77.42	99.93	99.915	100.377	77.73	75.957
11/11/2002 18:45	4687.8967	77.296	77.423	99.93	99.915	100.377	77.733	75.971
11/11/2002 18:55	4697.8967	77.282	77.42	99.93	99.915	100.379	77.739	75.971
11/11/2002 19:05	4707.8967	77.282	77.423	99.927	99.915	100.379	77.742	75.971
11/11/2002 19:15	4717.8967	77.296	77.42	99.93	99.915	100.379	77.744	75.957
11/11/2002 19:25	4727.8967	77.282	77.42	99.93	99.93	100.379	77.753	75.971
11/11/2002 19:35	4737.8967	77.282	77.423	99.93	99.915	100.377	77.762	75.971
11/11/2002 19:45	4747.8967	77.282	77.429	99.933	99.93	100.379	77.779	75.971
11/11/2002 19:55	4757.8967	77.296	77.426	99.933	99.915	100.377	77.787	75.986
11/11/2002 20:05	4767.8967	77.282	77.423	99.93	99.915	100.377	77.79	75.971
11/11/2002 20:15	4777.8967	77.282	77.426	99.93	99.901	100.379	77.796	75.971
11/11/2002 20:25	4787.8967	77.296	77.423	99.93	99.915	100.379	77.793	75.971
11/11/2002 20:35	4797.8967	77.282	77.423	99.933	99.915	100.379	77.796	75.986
11/11/2002 20:45	4807.8967	77.282	77.426	99.933	99.901	100.379	77.799	75.986
11/11/2002 20:55	4817.8967	77.282	77.42	99.933	99.944	100.381	77.808	75.957
11/11/2002 21:05	4827.8967	77.282	77.423	99.933	99.959	100.381	77.816	75.957
11/11/2002 21:15	4837.8967	77.296	77.42	99.93	99.944	100.379	77.822	75.957
11/11/2002 21:25	4847.8967	77.296	77.423	99.933	99.959	100.383	77.831	75.971
11/11/2002 21:35	4857.8967	77.282	77.423	99.933	99.959	100.381	77.833	75.971
11/11/2002 21:45	4867.8967	77.282	77.423	99.933	99.959	100.383	77.833	75.971
11/11/2002 21:55	4877.8967	77.282	77.423	99.936	99.959	100.386	77.833	75.971
11/11/2002 22:05	4887.8967	77.282	77.429	99.933	99.973	100.383	77.839	75.971
11/11/2002 22:15	4897.8967	77.282	77.426	99.933	99.973	100.386	77.836	75.971
11/11/2002 22:25	4907.8967	77.282	77.426	99.936	99.973	100.386	77.842	75.971
11/11/2002 22:35	4917.8967	77.296	77.426	99.936	99.959	100.383	77.851	75.971
11/11/2002 22:45	4927.8967	77.282	77.426	99.936	99.959	100.383	77.859	75.971
11/11/2002 22:55	4937.8967	77.282	77.423	99.936	99.959	100.386	77.865	75.971
11/11/2002 23:05	4947.8967	77.282	77.426	99.936	99.959	100.386	77.868	75.971
11/11/2002 23:15	4957.8967	77.282	77.426	99.939	99.959	100.386	77.871	75.971
11/11/2002 23:25	4967.8967	77.282	77.434	99.945	99.988	100.386	77.868	75.957
11/11/2002 23:35	4977.8967	77.296	77.437	99.95	99.988	100.39	77.868	75.957
11/11/2002 23:45	4987.8967	77.296	77.437	99.95	99.988	100.39	77.868	75.957
11/11/2002 23:55	4997.8967	77.311	77.437	99.95	99.973	100.388	77.865	75.957
11/12/2002 0:05	5007.8967	77.296	77.437	99.953	99.973	100.392	77.862	75.971
11/12/2002 0:15	5017.8967	77.311	77.44	99.953	99.973	100.392	77.897	75.971
11/12/2002 0:25	5027.8967	77.296	77.44	99.953	99.973	100.392	77.96	75.971
11/12/2002 0:35	5037.8967	77.296	77.443	99.953	99.988	100.394	77.997	75.971
11/12/2002 0:45	5047.8967	77.311	77.446	99.953	99.973	100.396	78.029	75.986
11/12/2002 0:55	5057.8967	77.311	77.443	99.953	99.973	100.399	78.046	75.971
11/12/2002 1:05	5067.8967	77.296	77.443	99.956	99.973	100.399	78.066	75.971
11/12/2002 1:15	5077.8967	77.296	77.449	99.956	99.973	100.399	78.08	75.971
11/12/2002 1:25	5087.8967	77.296	77.449	99.956	99.988	100.401	78.092	75.986
11/12/2002 1:35	5097.8967	77.296	77.452	99.959	99.973	100.401	78.103	75.971
11/12/2002 1:45	5107.8967	77.296	77.449	99.956	99.973	100.403	78.121	75.971
11/12/2002 1:55	5117.8967	77.296	77.449	99.959	99.988	100.403	78.132	75.971
11/12/2002 2:05	5127.8967	77.311	77.452	99.962	100.002	100.405	78.149	75.971
11/12/2002 2:15	5137.8967	77.296	77.449	99.962	99.988	100.405	78.167	75.971
11/12/2002 2:25	5147.8967	77.311	77.452	99.962	99.988	100.407	78.178	75.971
11/12/2002 2:35	5157.8967	77.311	77.452	99.962	99.988	100.407	78.184	75.957
11/12/2002 2:45	5167.8967	77.311	77.452	99.962	99.988	100.409	78.192	75.957
11/12/2002 2:55	5177.8967	77.311	77.452	99.962	99.988	100.412	78.198	75.971
11/12/2002 3:05	5187.8967	77.311	77.452	99.962	99.988	100.412	78.204	75.971
11/12/2002 3:15	5197.8967	77.311	77.455	99.965	99.988	100.414	78.207	75.971
11/12/2002 3:25	5207.8967	77.311	77.455	99.965	99.988	100.414	78.213	75.971
11/12/2002 3:35	5217.8967	77.311	77.452	99.965	99.988	100.414	78.218	75.971
11/12/2002 3:45	5227.8967	77.311	77.455	99.965	99.988	100.416	78.235	75.957
11/12/2002 3:55	5237.8967	77.311	77.455	99.965	99.988	100.416	78.244	75.957
11/12/2002 4:05	5247.8967	77.311	77.46	99.968	99.988	100.418	78.258	75.971

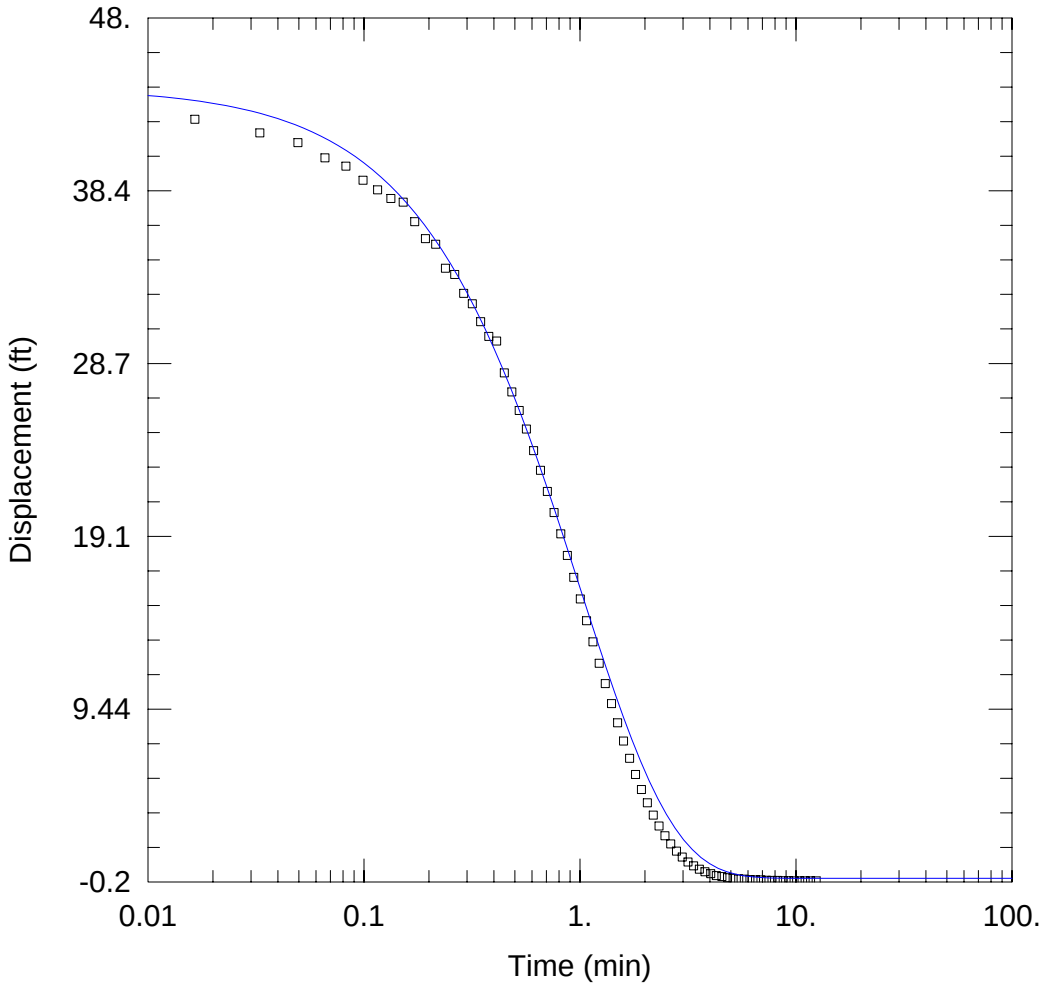
11/12/2002 4:15	5257.8967	77.311	77.457	99.968	99.988	100.418	78.27	75.957
11/12/2002 4:25	5267.8967	77.325	77.46	99.968	99.988	100.42	78.284	75.957
11/12/2002 4:35	5277.8967	77.311	77.457	99.968	99.988	100.418	78.29	75.957
11/12/2002 4:45	5287.8967	77.311	77.46	99.97	100.017	100.42	78.302	75.957
11/12/2002 4:55	5297.8967	77.311	77.463	99.973	100.031	100.42	78.313	75.957
11/12/2002 5:05	5307.8967	77.311	77.46	99.976	100.031	100.431	78.322	75.942
11/12/2002 5:15	5317.8967	77.311	77.46	99.973	100.017	100.429	78.279	75.942
11/12/2002 5:25	5327.8967	77.325	77.463	99.973	100.017	100.427	78.233	75.957
11/12/2002 5:35	5337.8967	77.325	77.463	99.976	100.031	100.429	78.207	75.942
11/12/2002 5:45	5347.8967	77.325	77.463	99.976	100.002	100.429	78.192	75.942
11/12/2002 5:55	5357.8967	77.325	77.463	99.976	99.988	100.431	78.184	75.971
11/12/2002 6:05	5367.8967	77.325	77.466	99.976	99.988	100.431	78.178	75.957
11/12/2002 6:15	5377.8967	77.325	77.466	99.979	99.988	100.433	78.181	75.957
11/12/2002 6:25	5387.8967	77.311	77.457	99.968	99.973	100.431	78.184	75.971
11/12/2002 6:35	5397.8967	77.311	77.457	99.965	99.973	100.433	78.181	75.957
11/12/2002 6:45	5407.8967	77.311	77.457	99.968	99.959	100.431	78.181	75.971
11/12/2002 6:55	5417.8967	77.311	77.455	99.965	99.959	100.429	78.178	75.957
11/12/2002 7:05	5427.8967	77.325	77.455	99.968	99.973	100.431	78.178	75.957
11/12/2002 7:15	5437.8967	77.325	77.457	99.968	99.959	100.429	78.175	75.957
11/12/2002 7:25	5447.8967	77.311	77.457	99.968	99.959	100.429	78.172	75.957
11/12/2002 7:35	5457.8967	77.311	77.457	99.968	99.959	100.427	78.175	75.971
11/12/2002 7:45	5467.8967	77.296	77.455	99.965	99.959	100.427	78.175	75.971
11/12/2002 7:55	5477.8967	77.311	77.457	99.965	99.959	100.429	78.181	75.971
11/12/2002 8:05	5487.8967	77.311	77.455	99.965	99.973	100.427	78.187	75.971
11/12/2002 8:15	5497.8967	77.311	77.457	99.965	99.959	100.425	78.19	75.971
11/12/2002 8:25	5507.8967	77.311	77.455	99.965	99.959	100.427	78.198	75.957
11/12/2002 8:35	5517.8967	77.311	77.455	99.968	99.944	100.427	78.207	75.971
11/12/2002 8:45	5527.8967	77.311	77.457	99.968	99.959	100.427	78.213	75.971
11/12/2002 8:55	5537.8967	77.311	77.457	99.965	99.959	100.425	78.215	75.971
11/12/2002 9:05	5547.8967	77.311	77.457	99.968	99.944	100.427	78.213	75.971
11/12/2002 9:15	5557.8967	77.311	77.455	99.968	99.944	100.425	78.21	75.971
11/12/2002 9:25	5567.8967	77.325	77.457	99.968	99.959	100.427	78.21	75.971
11/12/2002 9:35	5577.8967	77.325	77.46	99.973	99.988	100.427	78.213	75.957
11/12/2002 9:45	5587.8967	77.296	77.457	99.968	99.944	100.427	78.215	75.971
11/12/2002 9:55	5597.8967	77.311	77.457	99.968	99.959	100.425	78.224	75.971
11/12/2002 10:05	5607.8967	77.311	77.457	99.968	99.944	100.425	78.23	75.971
11/12/2002 10:15	5617.8967	77.311	77.455	99.962	99.944	100.425	78.221	75.971
11/12/2002 10:25	5627.8967	77.311	77.455	99.962	99.973	100.425	78.221	75.971
11/12/2002 10:35	5637.8967	77.325	77.457	99.97	99.988	100.425	78.218	75.957
11/12/2002 10:45	5647.8967	77.296	77.452	99.953	99.944	100.422	78.207	75.957
11/12/2002 10:55	5657.8967	77.311	77.46	99.968	99.944	100.422	78.21	75.971
11/12/2002 11:05	5667.8967	77.311	77.452	99.965	99.973	100.422	78.204	75.957
11/12/2002 11:15	5677.8967	77.311	77.449	99.962	99.988	100.422	78.198	75.957
11/12/2002 11:25	5687.8967	77.311	77.443	99.959	99.944	100.418	78.195	75.942
11/12/2002 11:35	5697.8967	77.296	77.449	99.962	99.988	100.416	78.192	75.942
11/12/2002 11:45	5707.8967	77.296	77.446	99.953	99.973	100.416	78.187	75.957
11/12/2002 11:55	5717.8967	77.311	77.446	99.959	99.973	100.416	78.178	75.957
11/12/2002 12:05	5727.8967	77.311	77.449	99.959	99.988	100.418	78.167	75.942
11/12/2002 12:15	5737.8967	77.311	77.452	99.965	99.973	100.418	78.158	75.942
11/12/2002 12:25	5747.8967	77.311	77.446	99.959	99.988	100.418	78.144	75.942
11/12/2002 12:35	5757.8967	77.296	77.449	99.962	99.988	100.418	78.138	75.942
11/12/2002 12:45	5767.8967	77.296	77.446	99.956	99.973	100.416	78.132	75.942
11/12/2002 12:55	5777.8967	77.296	77.449	99.956	99.973	100.414	78.126	75.928
11/12/2002 13:05	5787.8967	77.296	77.443	99.956	99.973	100.409	78.123	75.942
11/12/2002 13:15	5797.8967	77.311	77.443	99.947	99.973	100.414	78.115	75.914
11/12/2002 13:25	5807.8967	77.311	77.46	99.979	99.973	100.414	78.135	75.928
11/12/2002 13:35	5817.8967	77.311	77.443	99.959	99.973	100.409	78.118	75.928
11/12/2002 13:45	5827.8967	77.311	77.46	99.991	99.959	100.412	78.132	75.914

11/12/2002 13:55	5837.8967	77.311	77.457	99.976	99.973	100.412	78.115	75.928
11/12/2002 14:05	5847.8967	77.296	77.443	99.947	99.973	100.409	78.089	75.914
11/12/2002 14:15	5857.8967	77.311	77.443	99.959	99.973	100.409	78.086	75.942
11/12/2002 14:25	5867.8967	77.296	77.446	99.953	99.959	100.405	78.075	75.928
11/12/2002 14:35	5877.8967	77.311	77.437	99.945	99.973	100.405	78.063	75.928
11/12/2002 14:45	5887.8967	77.282	77.446	99.95	99.973	100.405	78.069	75.914
11/12/2002 14:55	5897.8967	77.296	77.452	99.97	99.973	100.407	78.08	75.928
11/12/2002 15:05	5907.8967	77.296	77.446	99.953	99.959	100.405	78.069	75.928
11/12/2002 15:15	5917.8967	77.296	77.452	99.962	99.988	100.405	78.069	75.928
11/12/2002 15:25	5927.8967	77.296	77.443	99.95	99.959	100.405	78.049	75.914
11/12/2002 15:35	5937.8967	77.296	77.437	99.95	99.988	100.403	78.043	75.914
11/12/2002 15:45	5947.8967	77.296	77.443	99.953	99.973	100.401	78.04	75.914
11/12/2002 15:55	5957.8967	77.296	77.44	99.945	99.959	100.401	78.032	75.899
11/12/2002 16:05	5967.8967	77.311	77.443	99.956	99.988	100.403	78.037	75.899
11/12/2002 16:15	5977.8967	77.296	77.443	99.95	99.93	100.403	78.037	75.899
11/12/2002 16:25	5987.8967	77.311	77.44	99.947	99.959	100.401	78.037	75.899
11/12/2002 16:35	5997.8967	77.296	77.443	99.947	99.944	100.401	78.04	75.914
11/12/2002 16:45	6007.8967	77.282	77.446	99.953	99.944	100.403	78.037	75.914
11/12/2002 16:55	6017.8967	77.282	77.443	99.95	99.944	100.401	78.032	75.914
11/12/2002 17:05	6027.8967	77.296	77.443	99.953	99.93	100.403	78.029	75.914
11/12/2002 17:15	6037.8967	77.296	77.443	99.95	99.93	100.407	78.026	75.914
11/12/2002 17:25	6047.8967	77.296	77.443	99.953	99.944	100.401	78.026	75.899
11/12/2002 17:35	6057.8967	77.296	77.443	99.95	99.959	100.401	78.029	75.899
11/12/2002 17:45	6067.8967	77.296	77.446	99.953	99.944	100.401	78.037	75.899
11/12/2002 17:55	6077.8967	77.296	77.443	99.953	99.944	100.403	78.04	75.914
11/12/2002 18:05	6087.8967	77.311	77.446	99.953	99.959	100.401	78.04	75.899
11/12/2002 18:15	6097.8967	77.296	77.446	99.956	99.93	100.407	78.04	75.914
11/12/2002 18:25	6107.8967	77.296	77.443	99.953	99.959	100.401	78.037	75.914
11/12/2002 18:35	6117.8967	77.296	77.446	99.953	99.93	100.405	78.037	75.914
11/12/2002 18:45	6127.8967	77.296	77.449	99.953	99.944	100.403	78.04	75.914
11/12/2002 18:55	6137.8967	77.311	77.449	99.956	99.959	100.405	78.052	75.914
11/12/2002 19:05	6147.8967	77.296	77.446	99.956	99.959	100.403	78.057	75.914
11/12/2002 19:15	6157.8967	77.296	77.446	99.956	99.944	100.405	78.063	75.928
11/12/2002 19:25	6167.8967	77.296	77.452	99.956	99.93	100.403	78.066	75.928
11/12/2002 19:35	6177.8967	77.296	77.449	99.956	99.944	100.405	78.066	75.928
11/12/2002 19:45	6187.8967	77.311	77.449	99.959	99.944	100.405	78.066	75.928
11/12/2002 19:55	6197.8967	77.311	77.452	99.959	99.959	100.405	78.066	75.928
11/12/2002 20:05	6207.8967	77.296	77.452	99.959	99.944	100.407	78.069	75.942
11/12/2002 20:15	6217.8967	77.296	77.452	99.959	99.93	100.405	78.075	75.914
11/12/2002 20:25	6227.8967	77.296	77.455	99.959	99.93	100.405	78.078	75.914
11/12/2002 20:35	6237.8967	77.296	77.452	99.962	99.93	100.407	78.083	75.914
11/12/2002 20:45	6247.8967	77.296	77.452	99.962	99.944	100.407	78.083	75.914
11/12/2002 20:55	6257.8967	77.311	77.452	99.962	99.959	100.412	78.086	75.928
11/12/2002 21:05	6267.8967	77.296	77.452	99.962	99.944	100.409	78.089	75.928
11/12/2002 21:15	6277.8967	77.311	77.452	99.959	99.944	100.409	78.08	75.928
11/12/2002 21:25	6287.8967	77.296	77.455	99.959	99.944	100.409	78.08	75.942
11/12/2002 21:35	6297.8967	77.296	77.455	99.959	99.988	100.412	78.08	75.928
11/12/2002 21:45	6307.8967	77.296	77.455	99.962	99.973	100.412	78.086	75.942
11/12/2002 21:55	6317.8967	77.296	77.455	99.962	99.988	100.409	78.089	75.942
11/12/2002 22:05	6327.8967	77.296	77.452	99.959	100.002	100.409	78.089	75.942
11/12/2002 22:15	6337.8967	77.311	77.455	99.962	100.002	100.409	78.092	75.942
11/12/2002 22:25	6347.8967	77.311	77.452	99.959	99.988	100.409	78.089	75.942
11/12/2002 22:35	6357.8967	77.296	77.449	99.956	99.988	100.407	78.08	75.957
11/12/2002 22:45	6367.8967	77.296	77.449	99.956	99.988	100.407	78.069	75.942
11/12/2002 22:55	6377.8967	77.296	77.446	99.953	99.973	100.405	78.052	75.942
11/12/2002 23:05	6387.8967	77.296	77.446	99.95	99.973	100.401	78.04	75.942
11/12/2002 23:15	6397.8967	77.296	77.446	99.953	99.973	100.401	78.029	75.942
11/12/2002 23:25	6407.8967	77.282	77.443	99.95	99.988	100.401	78.011	75.928

11/12/2002 23:35	6417.8967	77.282	77.446	99.956	99.988	100.405	78.014	75.928
11/12/2002 23:45	6427.8967	77.311	77.443	99.953	99.973	100.401	78.006	75.928
11/12/2002 23:55	6437.8967	77.296	77.443	99.953	99.973	100.401	78.011	75.928
11/13/2002 0:05	6447.8967	77.296	77.443	99.953	99.988	100.403	78.003	75.928
11/13/2002 0:15	6457.8967	77.296	77.446	99.953	99.973	100.403	78	75.942
11/13/2002 0:25	6467.8967	77.296	77.446	99.95	99.973	100.399	77.991	75.942
11/13/2002 0:35	6477.8967	77.296	77.446	99.95	99.973	100.401	77.983	75.942
11/13/2002 0:45	6487.8967	77.282	77.44	99.947	99.973	100.396	77.968	75.942
11/13/2002 0:55	6497.8967	77.296	77.446	99.947	99.973	100.399	77.96	75.942
11/13/2002 1:05	6507.8967	77.282	77.449	99.95	99.973	100.399	77.957	75.942
11/13/2002 1:15	6517.8967	77.282	77.446	99.947	99.988	100.396	77.951	75.928
11/13/2002 1:25	6527.8967	77.282	77.443	99.947	99.988	100.396	77.943	75.942
11/13/2002 1:35	6537.8967	77.282	77.443	99.945	100.002	100.394	77.937	75.928
11/13/2002 1:45	6547.8967	77.296	77.44	99.947	99.988	100.396	77.934	75.928
11/13/2002 1:55	6557.8967	77.296	77.446	99.95	99.973	100.396	77.94	75.928
11/13/2002 2:05	6567.8967	77.296	77.446	99.953	99.988	100.401	77.943	75.928
11/13/2002 2:15	6577.8967	77.296	77.446	99.953	99.988	100.396	77.94	75.914
11/13/2002 2:25	6587.8967	77.296	77.446	99.95	99.988	100.401	77.94	75.942
11/13/2002 2:35	6597.8967	77.296	77.443	99.95	100.002	100.399	77.931	75.942
11/13/2002 2:45	6607.8967	77.296	77.446	99.95	100.002	100.399	77.922	75.928
11/13/2002 2:55	6617.8967	77.282	77.443	99.947	100.002	100.399	77.914	75.928
11/13/2002 3:05	6627.8967	77.296	77.443	99.947	99.973	100.394	77.905	75.928
11/13/2002 3:15	6637.8967	77.282	77.443	99.95	99.973	100.399	77.899	75.928
11/13/2002 3:25	6647.8967	77.296	77.443	99.95	99.988	100.396	77.894	75.928
11/13/2002 3:35	6657.8967	77.296	77.443	99.947	99.988	100.396	77.891	75.928
11/13/2002 3:45	6667.8967	77.282	77.44	99.945	99.988	100.394	77.888	75.928
11/13/2002 3:55	6677.8967	77.296	77.443	99.947	100.002	100.399	77.891	75.928
11/13/2002 4:05	6687.8967	77.282	77.443	99.945	99.973	100.396	77.891	75.928
11/13/2002 4:15	6697.8967	77.282	77.443	99.947	99.973	100.399	77.894	75.928
11/13/2002 4:25	6707.8967	77.282	77.446	99.95	99.988	100.399	77.894	75.914
11/13/2002 4:35	6717.8967	77.282	77.446	99.947	100.002	100.399	77.891	75.928
11/13/2002 4:45	6727.8967	77.282	77.449	99.953	100.002	100.401	77.894	75.928
11/13/2002 4:55	6737.8967	77.282	77.452	99.959	99.988	100.412	77.908	75.928
11/13/2002 5:05	6747.8967	77.296	77.455	99.956	100.002	100.405	77.92	75.928
11/13/2002 5:15	6757.8967	77.282	77.452	99.956	100.017	100.403	77.928	75.928
11/13/2002 5:25	6767.8967	77.282	77.455	99.959	100.017	100.405	77.928	75.928
11/13/2002 5:35	6777.8967	77.296	77.452	99.959	100.017	100.401	77.934	75.942
11/13/2002 5:45	6787.8967	77.296	77.452	99.956	99.988	100.405	77.937	75.942
11/13/2002 5:55	6797.8967	77.296	77.452	99.956	99.973	100.405	77.943	75.942
11/13/2002 6:05	6807.8967	77.296	77.455	99.959	99.973	100.405	77.945	75.957
11/13/2002 6:15	6817.8967	77.296	77.457	99.959	99.959	100.405	77.954	75.957
11/13/2002 6:25	6827.8967	77.296	77.455	99.956	99.959	100.403	77.951	75.942
11/13/2002 6:35	6837.8967	77.296	77.457	99.962	99.973	100.405	77.957	75.957
11/13/2002 6:45	6847.8967	77.311	77.457	99.965	99.973	100.412	77.963	75.971
11/13/2002 6:55	6857.8967	77.296	77.455	99.962	99.973	100.409	77.966	75.957
11/13/2002 7:05	6867.8967	77.311	77.455	99.959	99.973	100.407	77.966	75.971
11/13/2002 7:15	6877.8967	77.296	77.455	99.962	99.973	100.407	77.968	75.971
11/13/2002 7:25	6887.8967	77.296	77.455	99.959	100.002	100.405	77.968	75.971
11/13/2002 7:35	6897.8967	77.296	77.457	99.959	100.002	100.407	77.98	75.971
11/13/2002 7:45	6907.8967	77.296	77.455	99.962	100.002	100.409	77.991	75.971
11/13/2002 7:55	6917.8967	77.296	77.455	99.956	100.017	100.403	77.991	75.971
11/13/2002 8:05	6927.8967	77.311	77.457	99.962	100.017	100.407	78.006	75.971
11/13/2002 8:15	6937.8967	77.296	77.455	99.965	100.017	100.409	78.011	75.986
11/13/2002 8:25	6947.8967	77.311	77.455	99.965	100.017	100.412	78.017	76
11/13/2002 8:35	6957.8967	77.311	77.46	99.968	100.002	100.416	78.026	76
11/13/2002 8:45	6967.8967	77.311	77.46	99.968	100.017	100.414	78.034	76
11/13/2002 8:55	6977.8967	77.296	77.46	99.968	100.017	100.412	78.046	76
11/13/2002 9:05	6987.8967	77.311	77.457	99.965	100.017	100.412	78.052	76

11/13/2002 9:15	6997.8967	77.311	77.46	99.97	100.017	100.416	78.069	76
11/13/2002 9:25	7007.8967	77.311	77.46	99.968	100.017	100.414	78.072	76
11/13/2002 9:35	7017.8967	77.311	77.463	99.968	100.017	100.416	78.075	76
11/13/2002 9:45	7027.8967	77.311	77.46	99.968	100.017	100.414	78.072	76
11/13/2002 9:55	7037.8967	77.311	77.46	99.97	100.002	100.416	78.072	76.014
11/13/2002 10:05	7047.8967	77.311	77.457	99.968	100.017	100.414	78.072	76.014
11/13/2002 10:15	7057.8967	77.311	77.463	99.973	100.017	100.416	78.078	76.014
11/13/2002 10:25	7067.8967	77.311	77.46	99.968	100.017	100.414	78.078	76.014
11/13/2002 10:35	7077.8967	77.311	77.457	99.959	100.031	100.414	78.072	76.014
11/13/2002 10:45	7087.8967	77.311	77.46	99.97	100.017	100.414	78.078	76.014
11/13/2002 10:55	7097.8967	77.311	77.46	99.968	100.031	100.42	78.069	76.014
11/13/2002 11:05	7107.8967	77.311	77.46	99.973	100.031	100.42	78.072	76.029
11/13/2002 11:15	7117.8967	77.296	77.463	99.97	100.017	100.418	78.066	76.029
11/13/2002 11:25	7127.8967	77.296	77.463	99.968	100.031	100.418	78.066	76.014
11/13/2002 11:35	7137.8967	77.311	77.463	99.97	100.017	100.416	78.072	76.014
11/13/2002 11:45	7147.8967	77.311	77.463	99.968	100.017	100.414	78.066	76.014
11/13/2002 11:55	7157.8967	77.296	77.463	99.968	100.017	100.416	78.063	76.014
11/13/2002 12:05	7167.8967	77.296	77.46	99.968	100.017	100.416	78.063	76.014
11/13/2002 12:15	7177.8967	77.296	77.46	99.97	100.017	100.418	78.052	76.014
11/13/2002 12:25	7187.8967	77.311	77.455	99.965	100.017	100.414	78.043	76.014
11/13/2002 12:35	7197.8967	77.296	77.46	99.968	100.017	100.414	78.034	76.014
11/13/2002 12:45	7207.8967	77.311	77.463	99.97	100.017	100.414	78.032	76.029
11/13/2002 12:55	7217.8967	77.311	77.452	99.965	100.017	100.409	78.02	76.029
11/13/2002 13:05	7227.8967	77.311	77.457	99.965	100.031	100.416	78.02	76.029
11/13/2002 13:15	7237.8967	77.296	77.457	99.962	100.017	100.412	78.017	76.014
11/13/2002 13:25	7247.8967	77.296	77.46	99.973	100.017	100.412	78.037	76
11/13/2002 13:35	7257.8967	77.296	77.457	99.97	100.031	100.409	78.055	76.014
11/13/2002 13:45	7267.8967	77.296	77.46	99.965	100.017	100.412	78.072	76.014
11/13/2002 13:55	7277.8967	77.296	77.455	99.962	100.002	100.416	78.083	76.014
11/13/2002 14:05	7287.8967	77.296	77.449	99.962	100.017	100.409	78.092	76.014
11/13/2002 14:15	7297.8967	77.296	77.452	99.956	100.017	100.409	78.103	76
11/13/2002 14:25	7307.8967	77.296	77.457	99.965	100.031	100.412	78.121	76
11/13/2002 14:35	7317.8967	77.296	77.457	99.968	99.988	100.412	78.132	76

APPENDIX C.
Curve-Match Analysis for the Discrete Zone (Packer) Slug Tests



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\0294 to 0484 ft bls_Butler.aqt
Date: 03/09/05 Time: 12:57:44

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 12/19/00

AQUIFER DATA

Saturated Thickness: 306. ft Anisotropy Ratio (Kz/Kr): 0.01

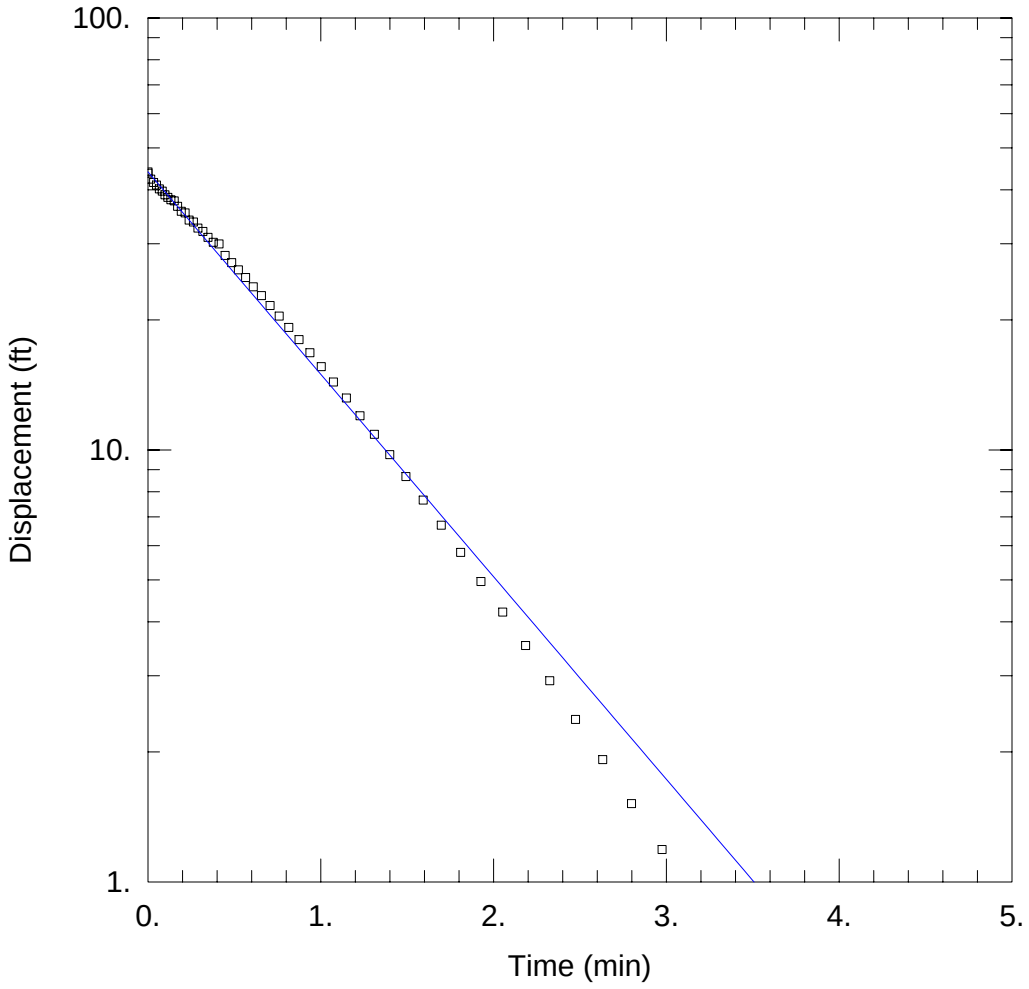
WELL DATA (Core Hole)

Initial Displacement: 44. ft
Total Well Penetration Depth: 294. ft
Casing Radius: 0.098 ft
Static Water Column Height: 443. ft
Screen Length: 190. ft
Wellbore Radius: 0.125 ft

SOLUTION

Aquifer Model: Confined Solution Method: Butler

K = 0.3505 ft/day C(D) = 10.



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\0294 to 0484 ft bls_Hvorslev.aqt
Date: 03/09/05 Time: 12:58:09

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 12/19/00

AQUIFER DATA

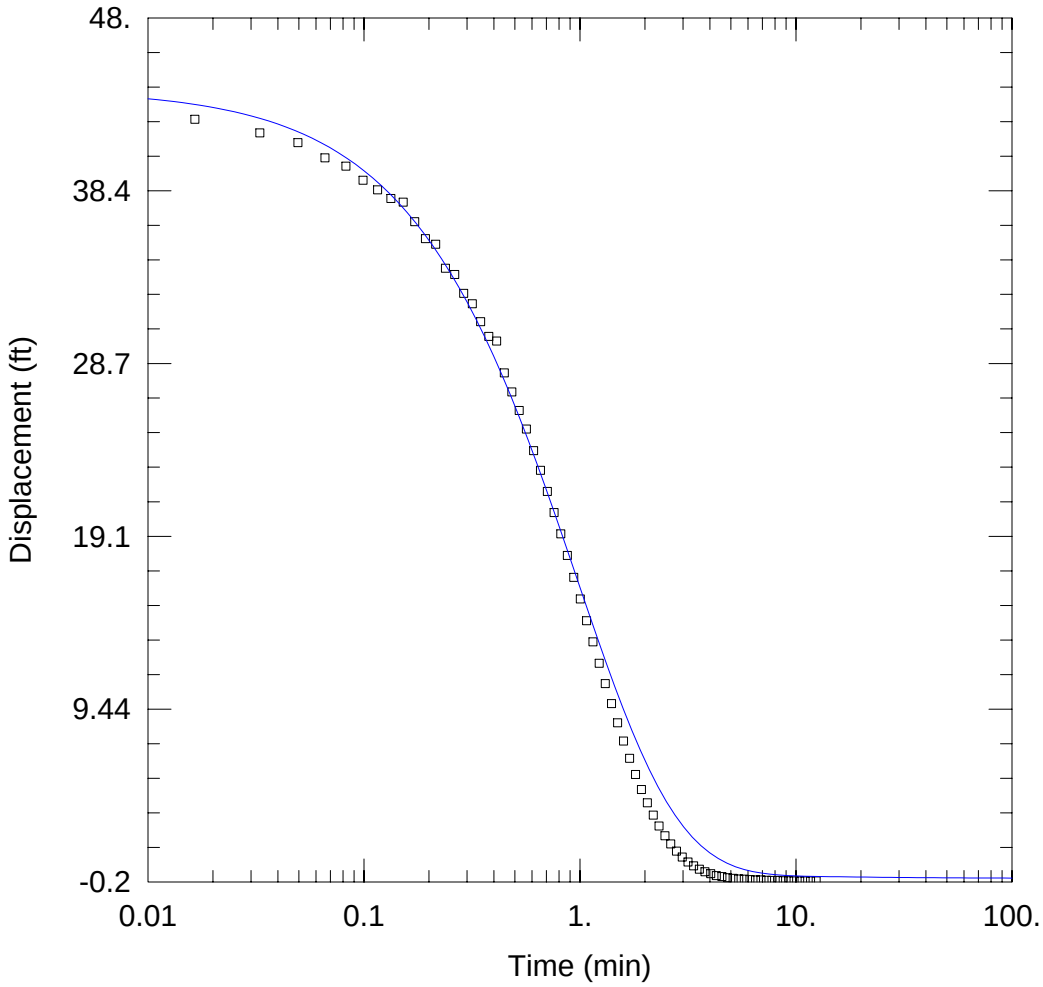
Saturated Thickness: 306. ft
Anisotropy Ratio (Kz/Kr): 0.01

WELL DATA (Core Hole)

Initial Displacement: 44. ft
Total Well Penetration Depth: 294. ft
Casing Radius: 0.098 ft
Static Water Column Height: 443. ft
Screen Length: 190. ft
Wellbore Radius: 0.125 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Hvorslev
K = 0.3781 ft/day
y0 = 44. ft



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\0294 to 0484 ft bls_KGS.aqt
Date: 03/09/05 Time: 12:58:28

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 12/19/00

AQUIFER DATA

Saturated Thickness: 306. ft

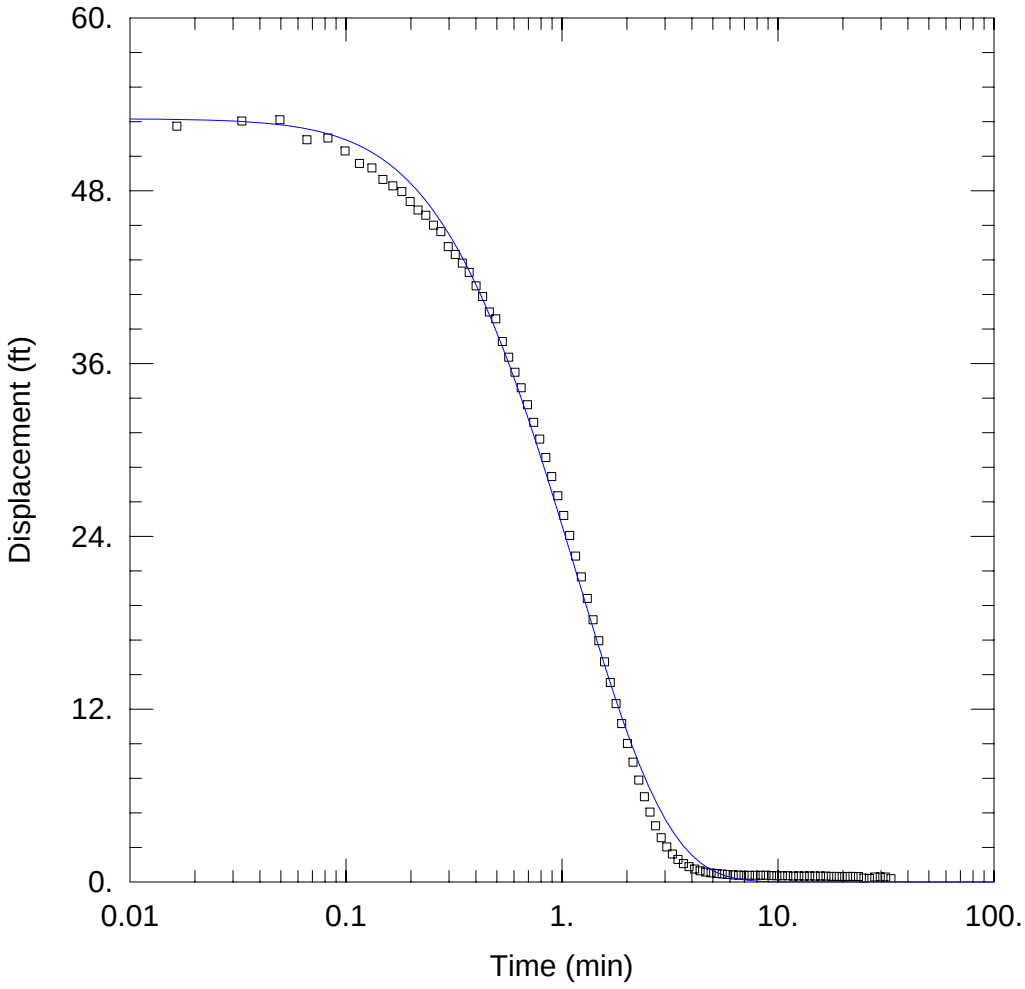
WELL DATA (Core Hole)

Initial Displacement: 44. ft
Total Well Penetration Depth: 294. ft
Casing Radius: 0.098 ft
Static Water Column Height: 443. ft
Screen Length: 190. ft
Wellbore Radius: 0.125 ft

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model

Kr = 0.3968 ft/day
Kz/Kr = 0.01
Ss = 3.268E-13 ft^{-1}



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\0366 to 0484 ft bls_Butler.aqt
Date: 03/09/05 Time: 12:59:01

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 12/13/00

AQUIFER DATA

Saturated Thickness: 306. ft Anisotropy Ratio (Kz/Kr): 0.01

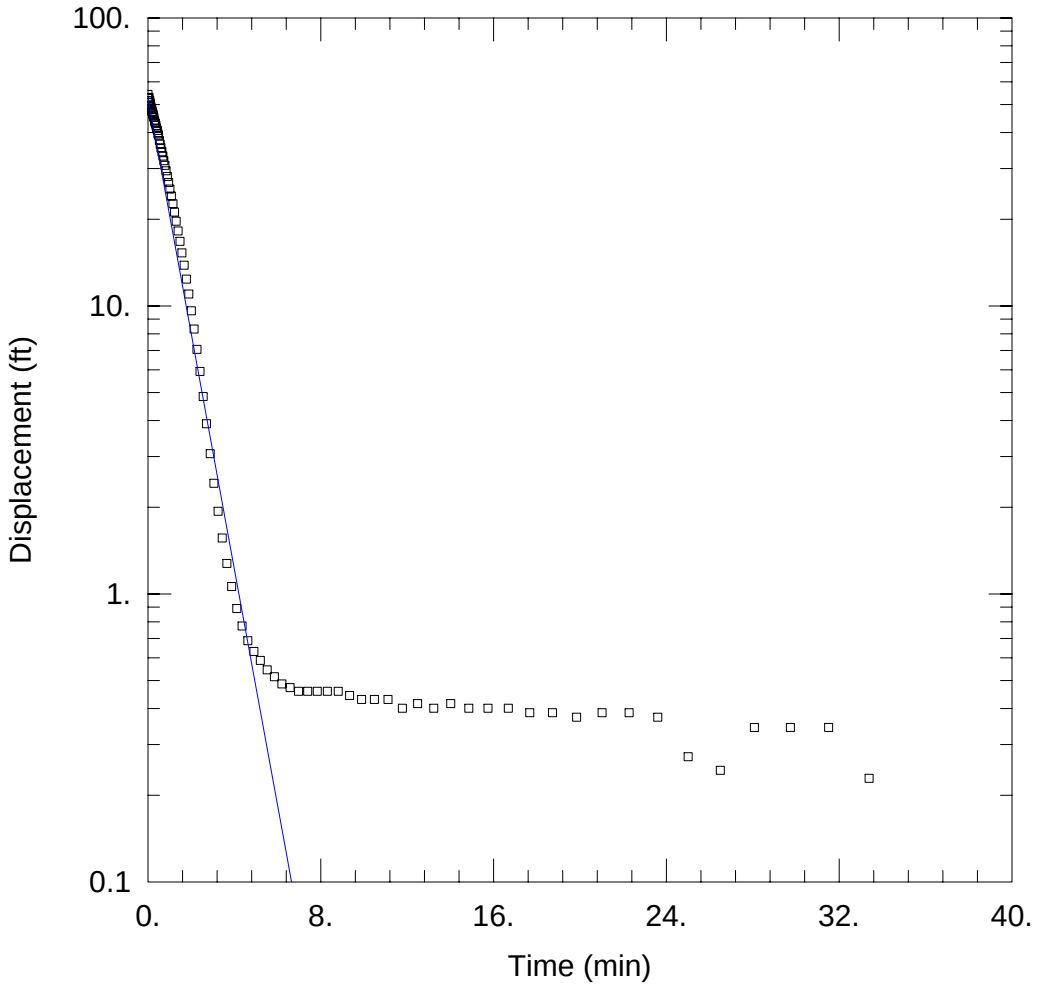
WELL DATA (Core Hole)

Initial Displacement: 53. ft
Total Well Penetration Depth: 294. ft
Casing Radius: 0.098 ft
Static Water Column Height: 443. ft
Screen Length: 118. ft
Wellbore Radius: 0.125 ft

SOLUTION

Aquifer Model: Confined Solution Method: Butler

K = 0.4232 ft/day C(D) = 1.736



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\0366 to 0484 ft bls_Hvorslev.aqt
Date: 03/09/05 Time: 13:00:34

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 12/19/00

AQUIFER DATA

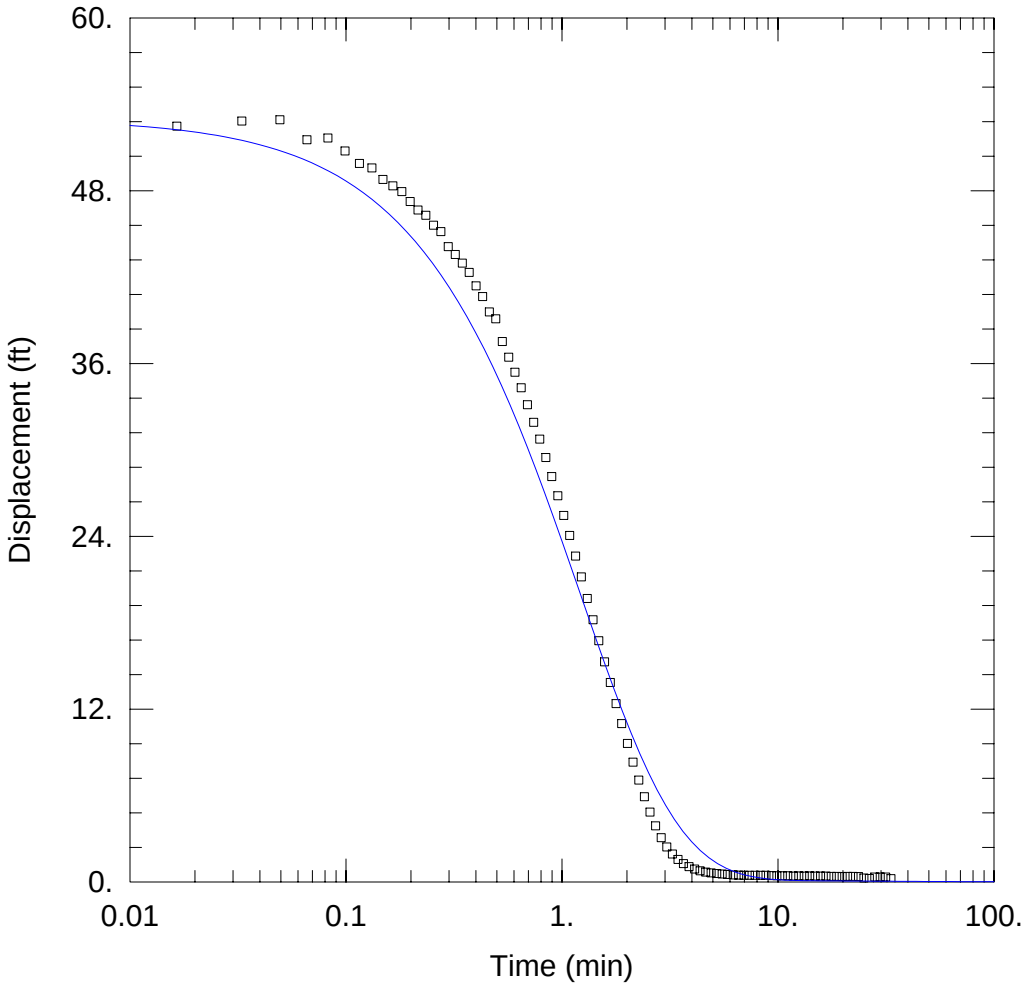
Saturated Thickness: 306. ft
Anisotropy Ratio (Kz/Kr): 0.01

WELL DATA (Core Hole)

Initial Displacement: 53. ft
Total Well Penetration Depth: 294. ft
Casing Radius: 0.098 ft
Static Water Column Height: 443. ft
Screen Length: 118. ft
Wellbore Radius: 0.125 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Hvorslev
K = 0.5061 ft/day
y0 = 53. ft



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\0366 to 0484 ft bls_KGS.aqt
Date: 03/09/05 Time: 13:00:18

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 12/19/00

AQUIFER DATA

Saturated Thickness: 306. ft

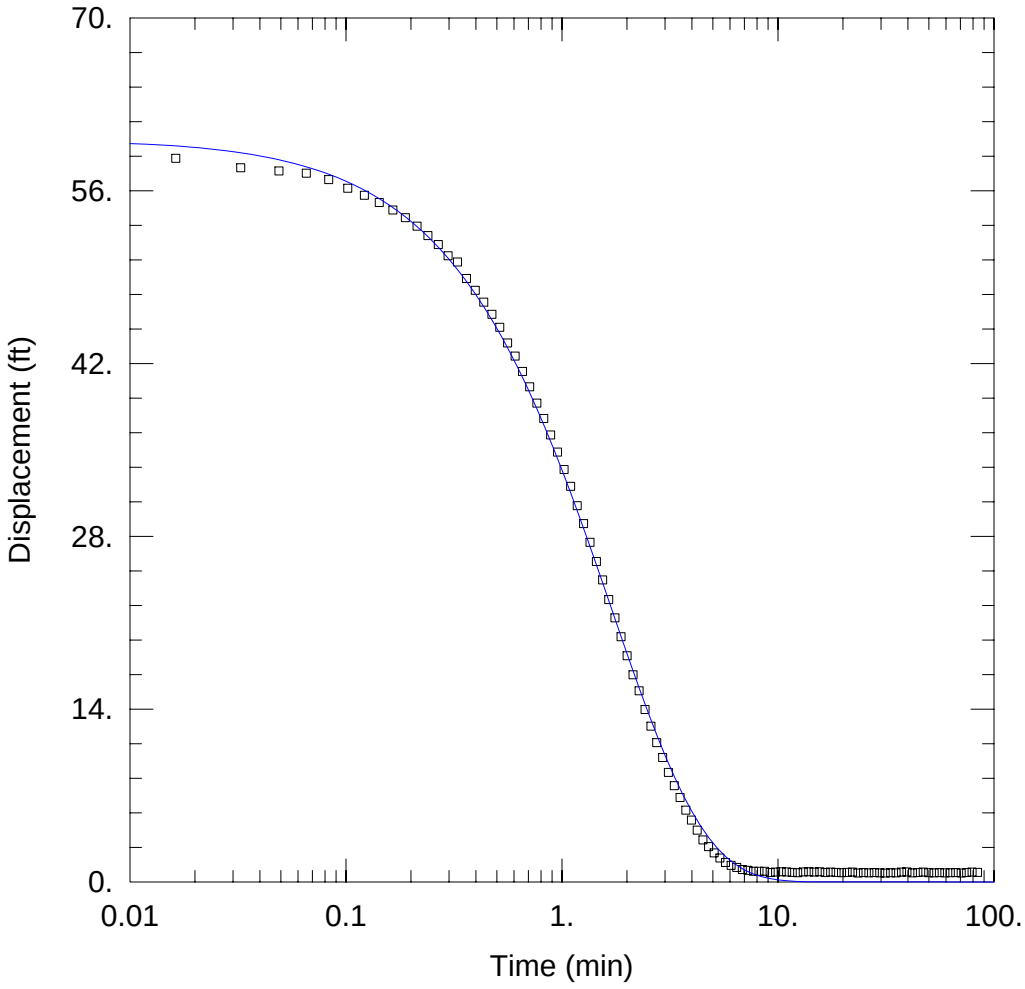
WELL DATA (Core Hole)

Initial Displacement: 53. ft
Total Well Penetration Depth: 294. ft
Casing Radius: 0.098 ft
Static Water Column Height: 443. ft
Screen Length: 118. ft
Wellbore Radius: 0.125 ft

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model

Kr = 0.4706 ft/day
Kz/Kr = 0.01
Ss = 3.378E-13 ft^{-1}



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\0403 to 0484 ft bls_Butler.aqt
Date: 03/09/05 Time: 13:00:04

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 12/19/00

AQUIFER DATA

Saturated Thickness: 306. ft Anisotropy Ratio (Kz/Kr): 0.01

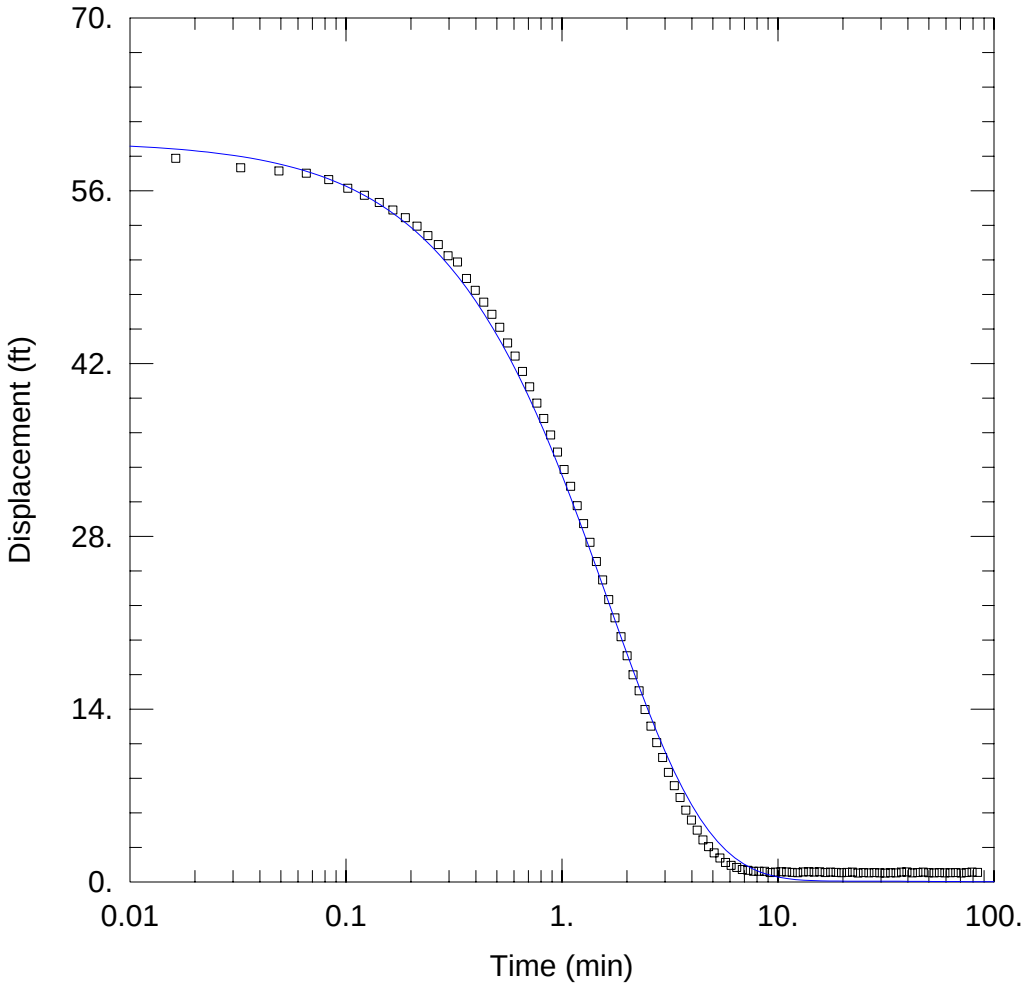
WELL DATA (Core Hole)

Initial Displacement: 60. ft
Total Well Penetration Depth: 294. ft
Casing Radius: 0.098 ft
Static Water Column Height: 443. ft
Screen Length: 81. ft
Wellbore Radius: 0.125 ft

SOLUTION

Aquifer Model: Confined Solution Method: Butler

K = 0.4411 ft/day C(D) = 8.276



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\0403 to 0484 ft bls_KGS.aqt
Date: 03/09/05 Time: 13:00:52

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 12/19/00

AQUIFER DATA

Saturated Thickness: 306. ft

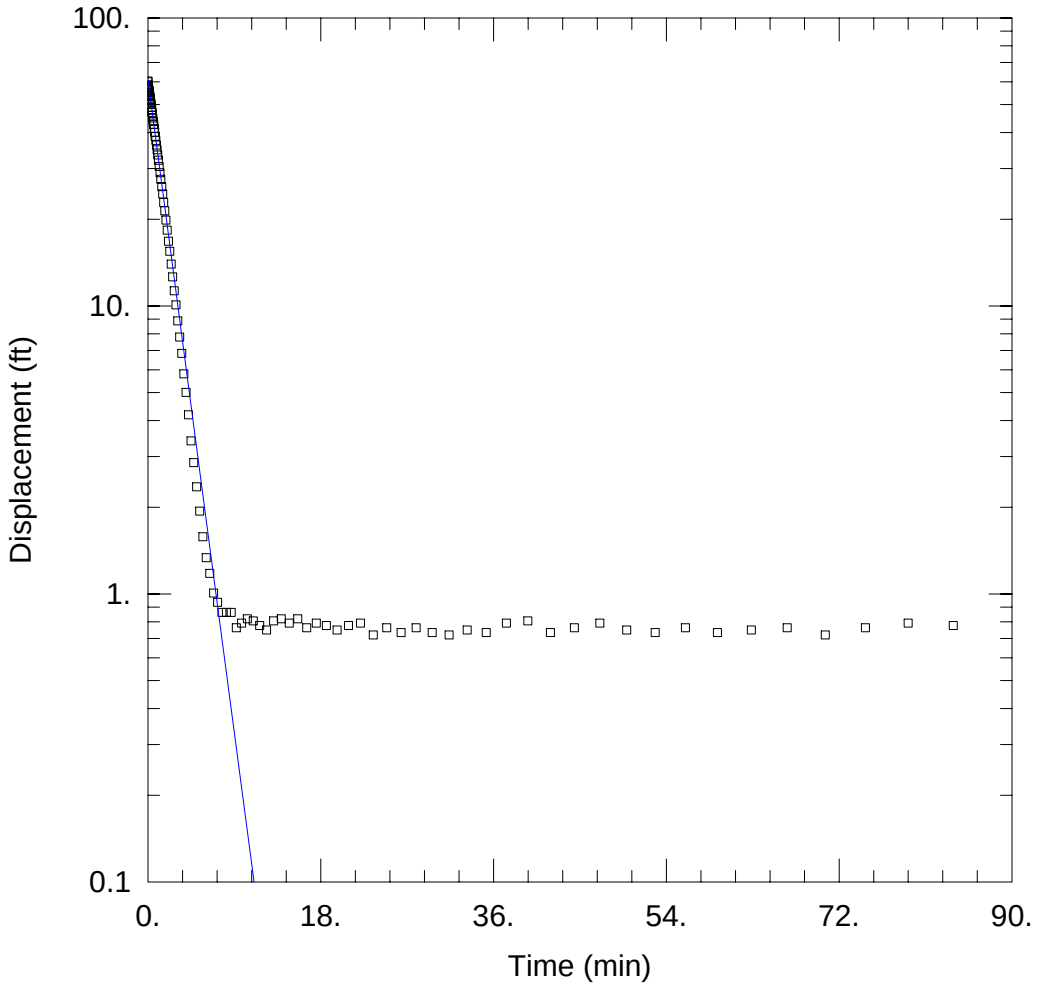
WELL DATA (Core Hole)

Initial Displacement: 60. ft
Total Well Penetration Depth: 294. ft
Casing Radius: 0.098 ft
Static Water Column Height: 443. ft
Screen Length: 81. ft
Wellbore Radius: 0.125 ft

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model

Kr = 0.4324 ft/day
Kz/Kr = 0.1
Ss = 3.378E-13 ft^{-1}



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\0403 to 0484 ft bls_Hvorslev.aqt
Date: 03/09/05 Time: 12:59:23

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 12/19/00

AQUIFER DATA

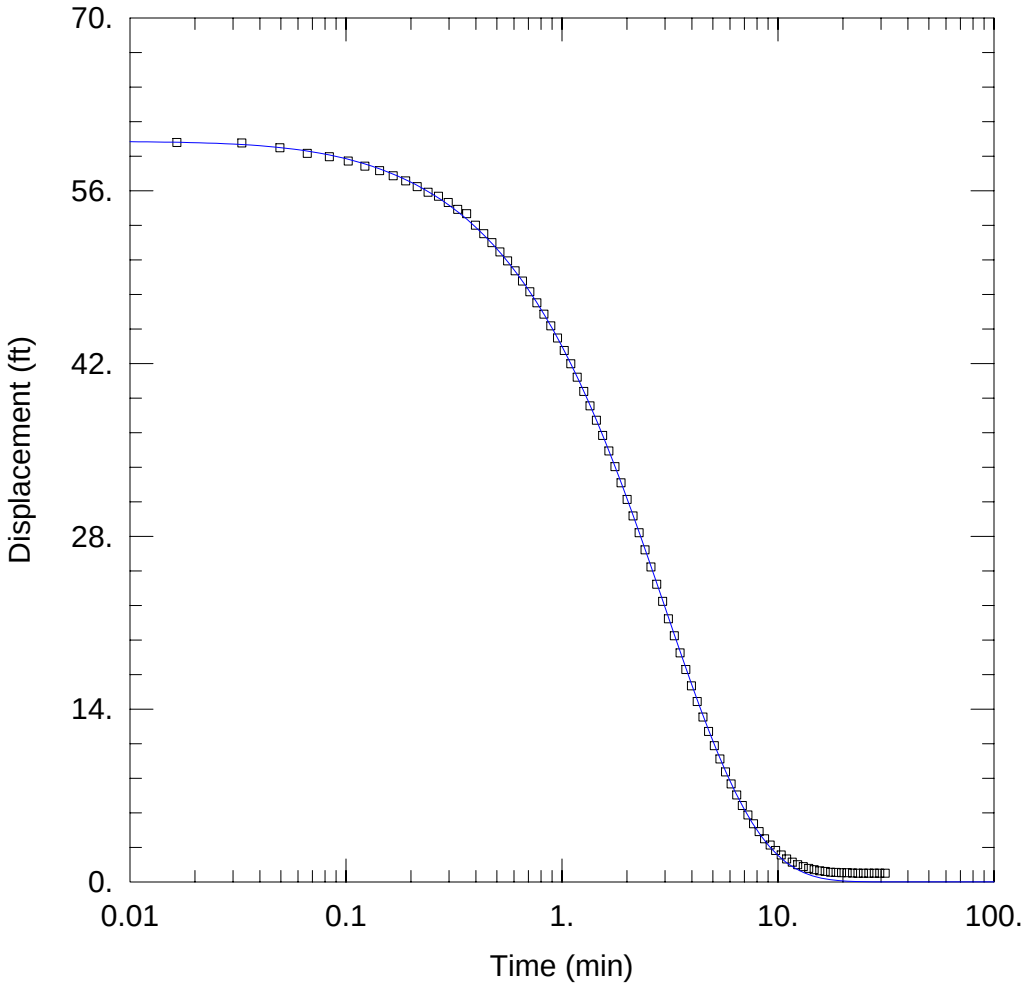
Saturated Thickness: 306. ft
Anisotropy Ratio (Kz/Kr): 0.01

WELL DATA (Core Hole)

Initial Displacement: 60. ft
Total Well Penetration Depth: 294. ft
Casing Radius: 0.098 ft
Static Water Column Height: 443. ft
Screen Length: 81. ft
Wellbore Radius: 0.125 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Hvorslev
K = 0.4346 ft/day
y0 = 60.84 ft



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\0462 to 0484 ft bls_Butler.aqt
Date: 03/09/05 Time: 13:01:23

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 12/19/00

AQUIFER DATA

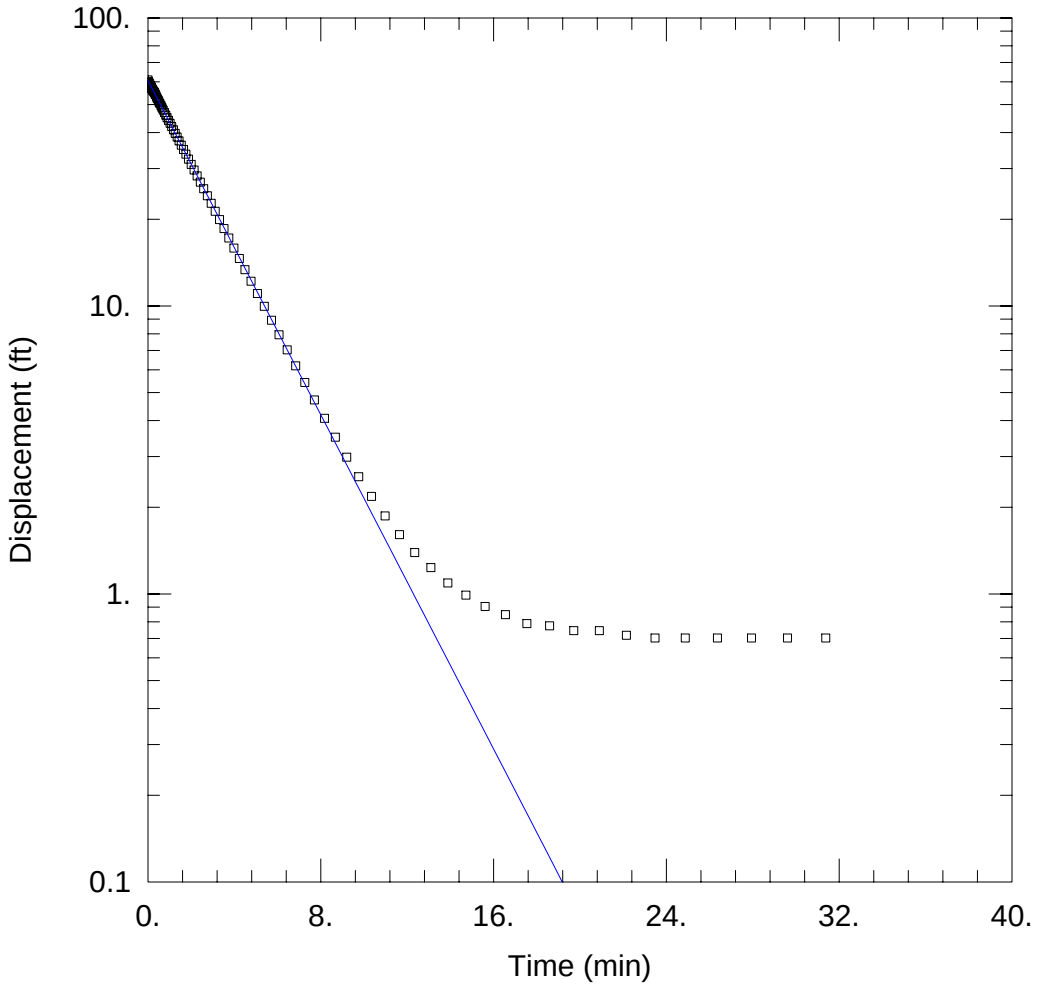
Saturated Thickness: 306. ft
Anisotropy Ratio (Kz/Kr): 0.01

WELL DATA (Core Hole)

Initial Displacement: 60. ft
Total Well Penetration Depth: 294. ft
Casing Radius: 0.098 ft
Static Water Column Height: 443. ft
Screen Length: 22. ft
Wellbore Radius: 0.125 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Butler
K = 0.7779 ft/day
C(D) = 5.046



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\0462 to 0484 ft bls_Hvorslev.aqt
Date: 03/09/05 Time: 13:02:38

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 12/19/00

AQUIFER DATA

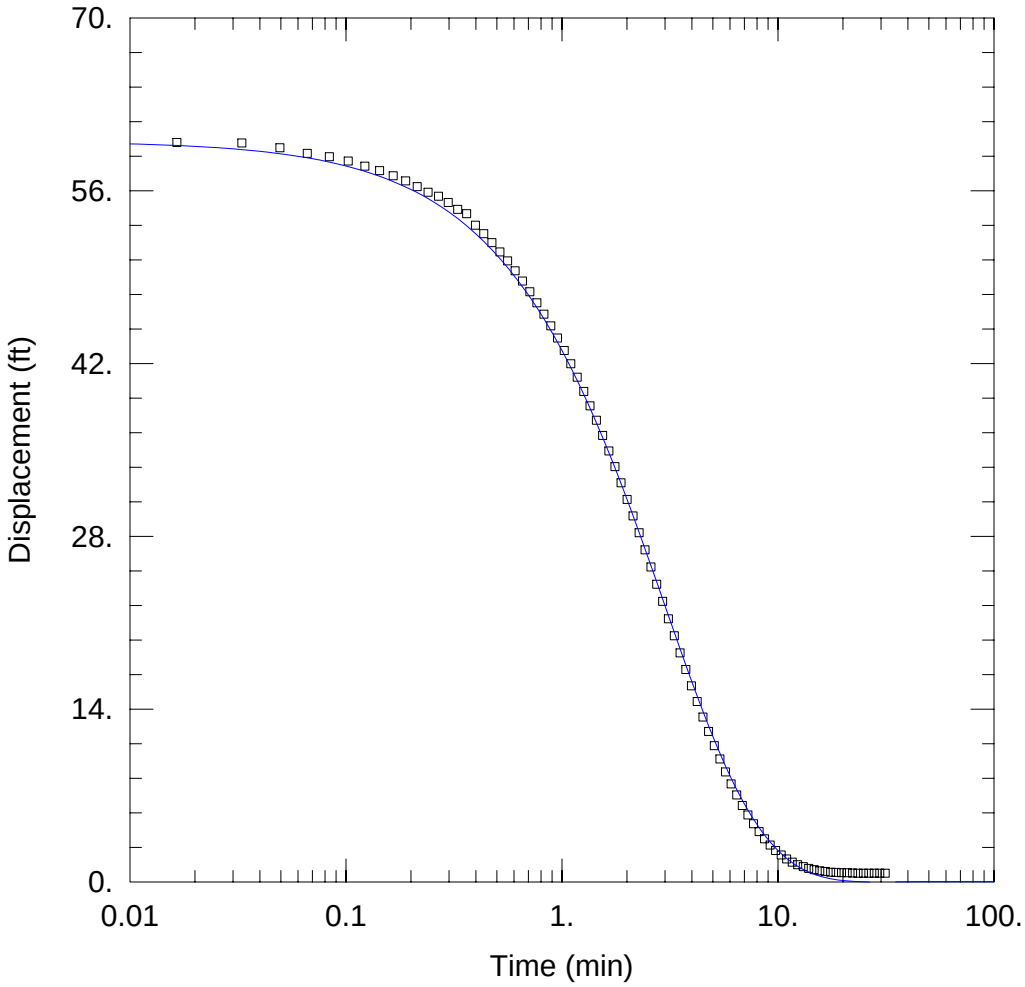
Saturated Thickness: 306. ft
Anisotropy Ratio (Kz/Kr): 0.01

WELL DATA (Core Hole)

Initial Displacement: 60. ft
Total Well Penetration Depth: 294. ft
Casing Radius: 0.098 ft
Static Water Column Height: 443. ft
Screen Length: 22. ft
Wellbore Radius: 0.125 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Hvorslev
K = 0.7845 ft/day
y0 = 60.58 ft



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\0462 to 0484 ft bls_KGS.aqt
Date: 03/09/05 Time: 13:02:24

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 12/19/00

AQUIFER DATA

Saturated Thickness: 306. ft

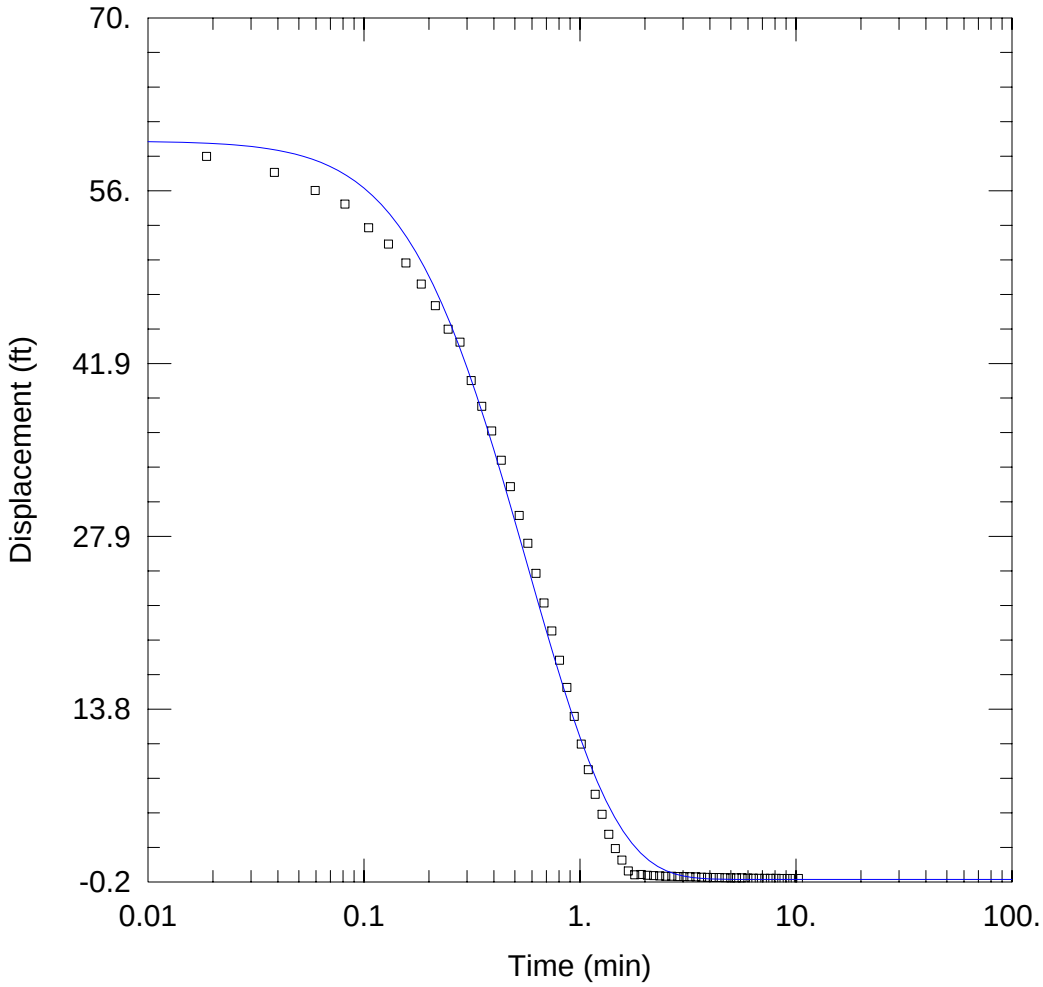
WELL DATA (Core Hole)

Initial Displacement: 60. ft
Total Well Penetration Depth: 294. ft
Casing Radius: 0.098 ft
Static Water Column Height: 443. ft
Screen Length: 22. ft
Wellbore Radius: 0.125 ft

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model

Kr = 0.6721 ft/day
Kz/Kr = 0.1
Ss = 3.378E-13 ft^{-1}



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\0484 to 0494 ft bls_Butler.aqt
Date: 03/09/05 Time: 13:02:10

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 01/03/01

AQUIFER DATA

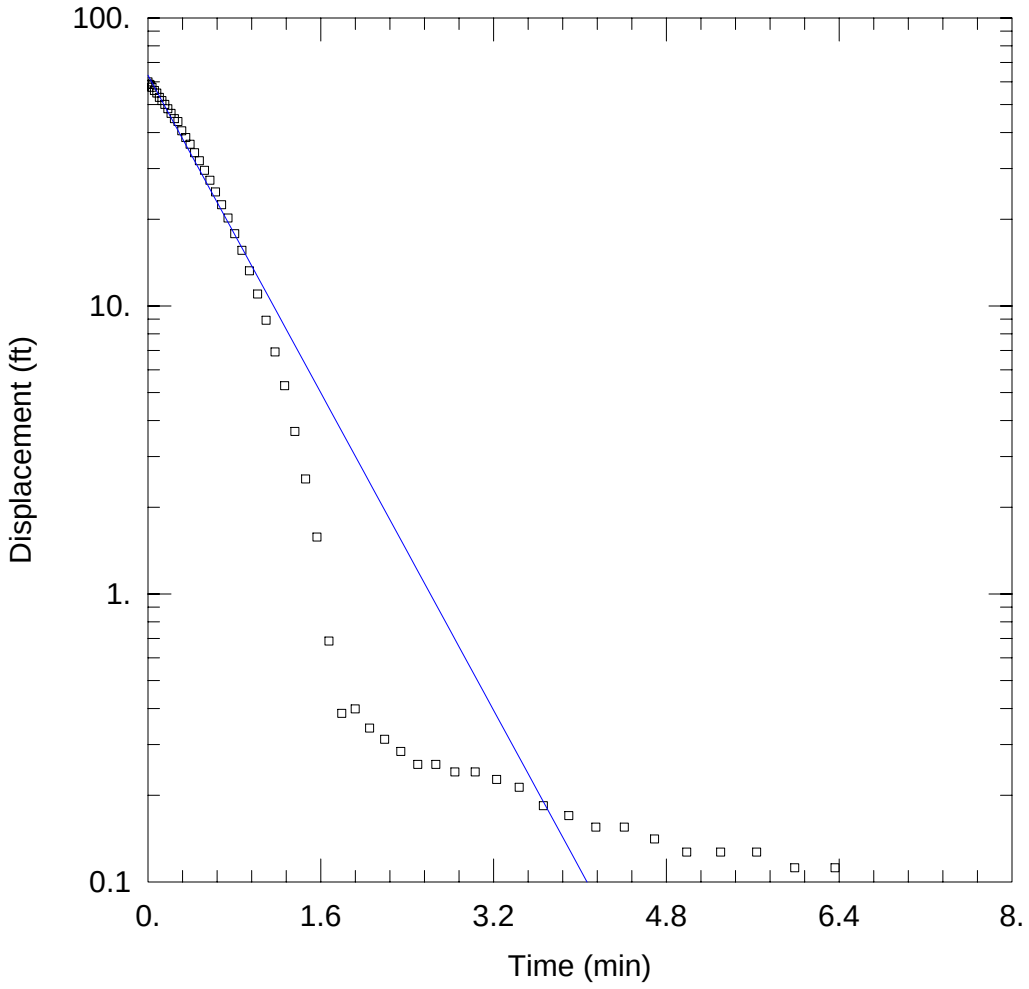
Saturated Thickness: 32. ft
Anisotropy Ratio (Kz/Kr): 0.01

WELL DATA (Core Hole)

Initial Displacement: 60. ft
Total Well Penetration Depth: 30. ft
Casing Radius: 0.098 ft
Static Water Column Height: 435. ft
Screen Length: 10. ft
Wellbore Radius: 0.125 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Butler
K = 7.248 ft/day
C(D) = 1.377



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\0484 to 0494 ft bls_Hvorslev.aqt
Date: 03/09/05 Time: 13:01:53

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 01/03/01

AQUIFER DATA

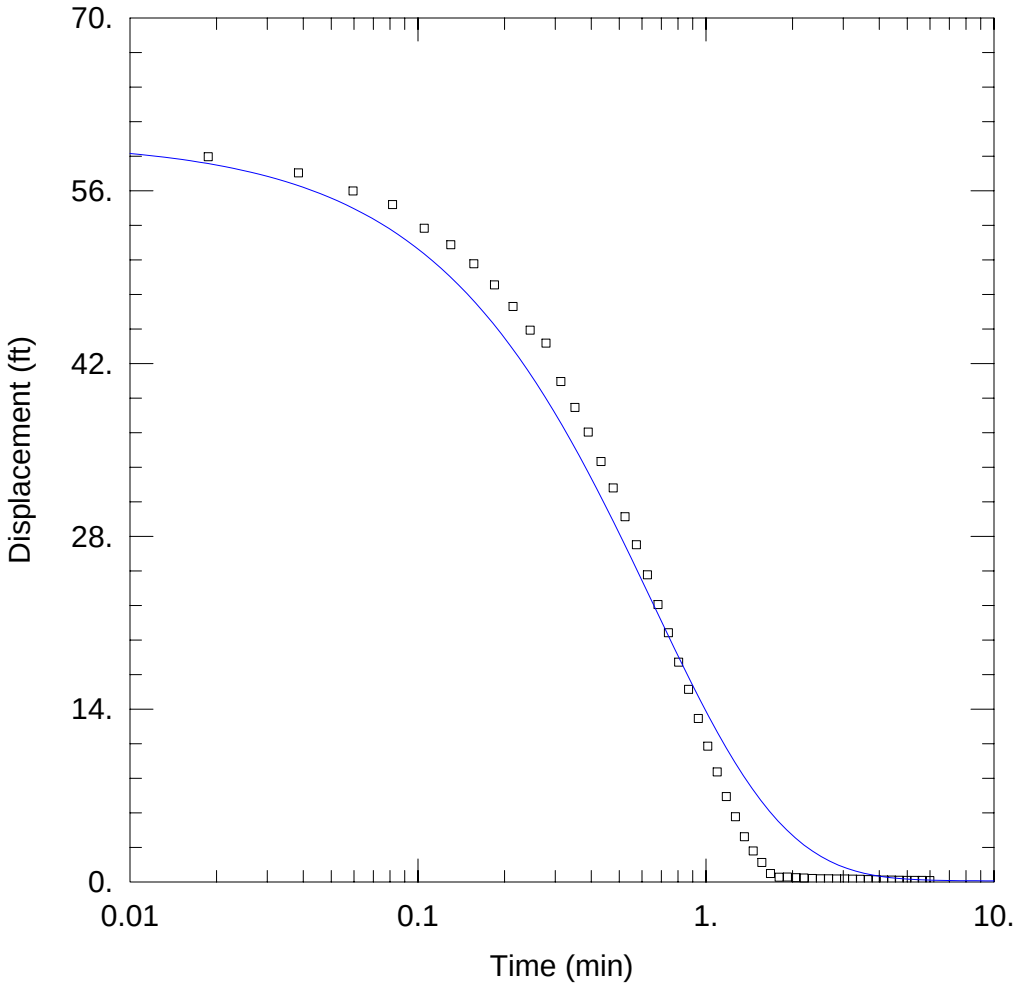
Saturated Thickness: 32. ft
Anisotropy Ratio (Kz/Kr): 0.01

WELL DATA (Core Hole)

Initial Displacement: 60. ft
Total Well Penetration Depth: 30. ft
Casing Radius: 0.098 ft
Static Water Column Height: 435. ft
Screen Length: 10. ft
Wellbore Radius: 0.125 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Hvorslev
K = 7.333 ft/day
y0 = 63.2 ft



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\0484 to 0494 ft bls_KGS.aqt
Date: 03/09/05 Time: 13:01:37

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 01/03/01

AQUIFER DATA

Saturated Thickness: 32. ft

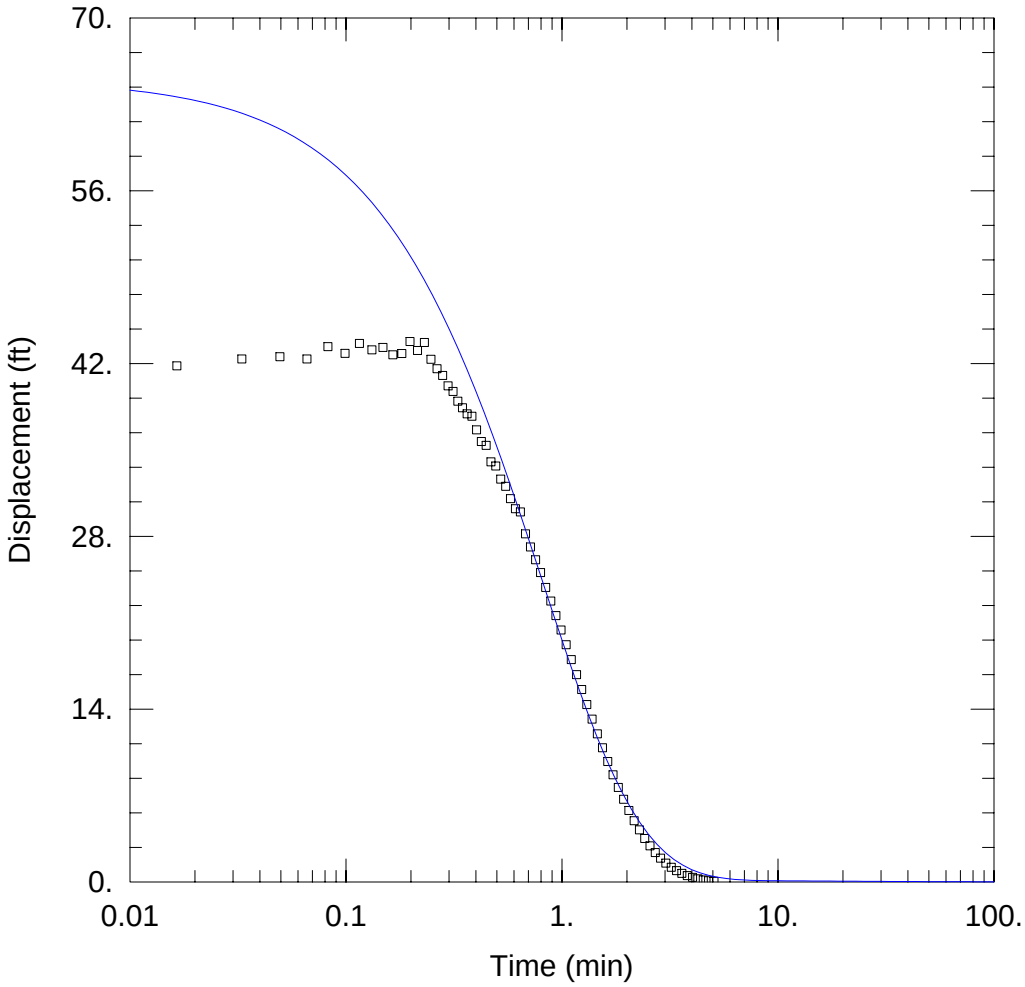
WELL DATA (Core Hole)

Initial Displacement: 60. ft
Total Well Penetration Depth: 30. ft
Casing Radius: 0.098 ft
Static Water Column Height: 435. ft
Screen Length: 10. ft
Wellbore Radius: 0.125 ft

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model

Kr = 7.862 ft/day
Kz/Kr = 0.1
Ss = 3.378E-13 ft^{-1}



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\0484 to 0494 ft bls_KGSa.aqt
Date: 03/09/05 Time: 13:02:55

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 01/03/01

AQUIFER DATA

Saturated Thickness: 32. ft

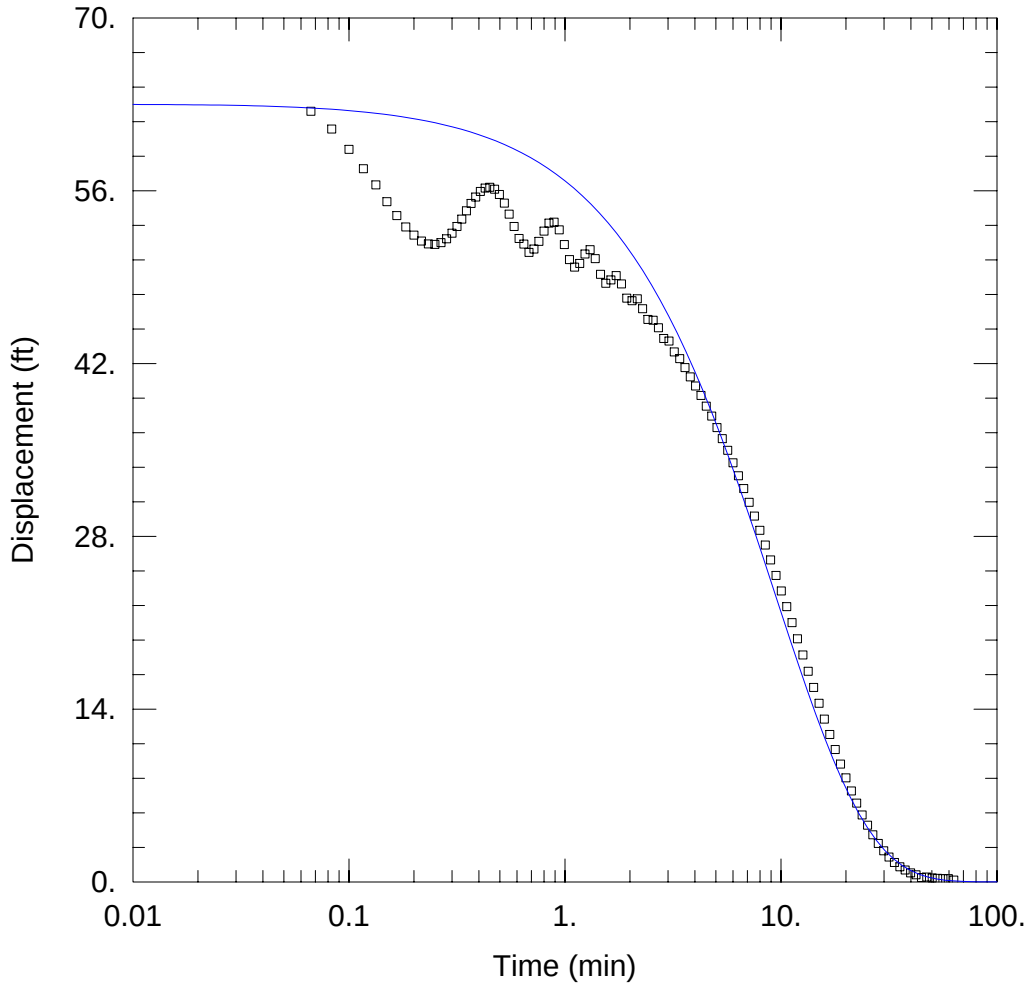
WELL DATA (Core Hole)

Initial Displacement: 65. ft
Total Well Penetration Depth: 30. ft
Casing Radius: 0.098 ft
Static Water Column Height: 435. ft
Screen Length: 10. ft
Wellbore Radius: 0.125 ft

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model

Kr = 7.02 ft/day
Kz/Kr = 0.01
Ss = 3.378E-13 ft^{-1}



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\0496 to 0514 ft bls_Butler.aqt
Date: 03/09/05 Time: 13:03:25

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 02/01/01

AQUIFER DATA

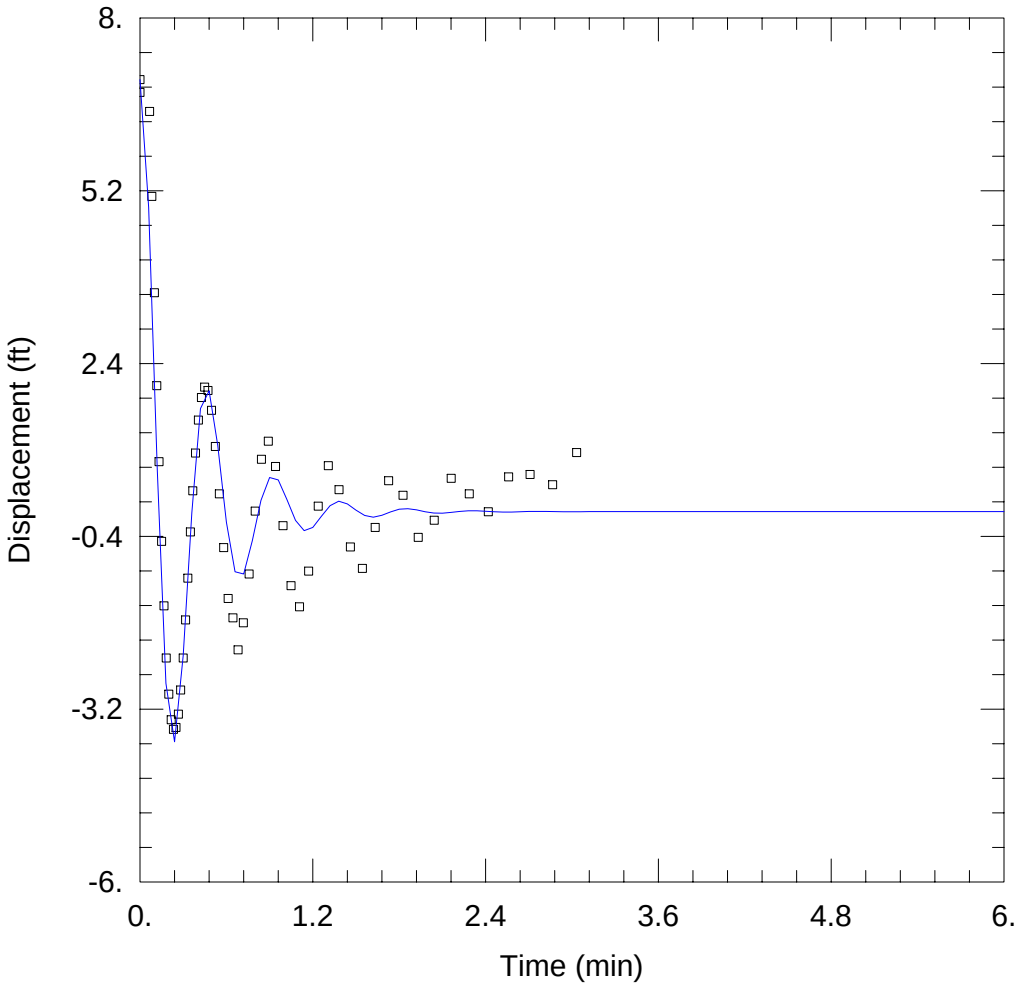
Saturated Thickness: 291. ft
Anisotropy Ratio (Kz/Kr): 0.01

WELL DATA (Core Hole)

Initial Displacement: 63. ft
Total Well Penetration Depth: 18. ft
Casing Radius: 0.098 ft
Static Water Column Height: 458. ft
Screen Length: 18. ft
Wellbore Radius: 0.125 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Butler
K = 0.2957 ft/day
C(D) = 10.



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\0496 to 0514 ft bls_Butler_clipped.aqt
Date: 03/09/05 Time: 13:06:11

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 02/01/01

AQUIFER DATA

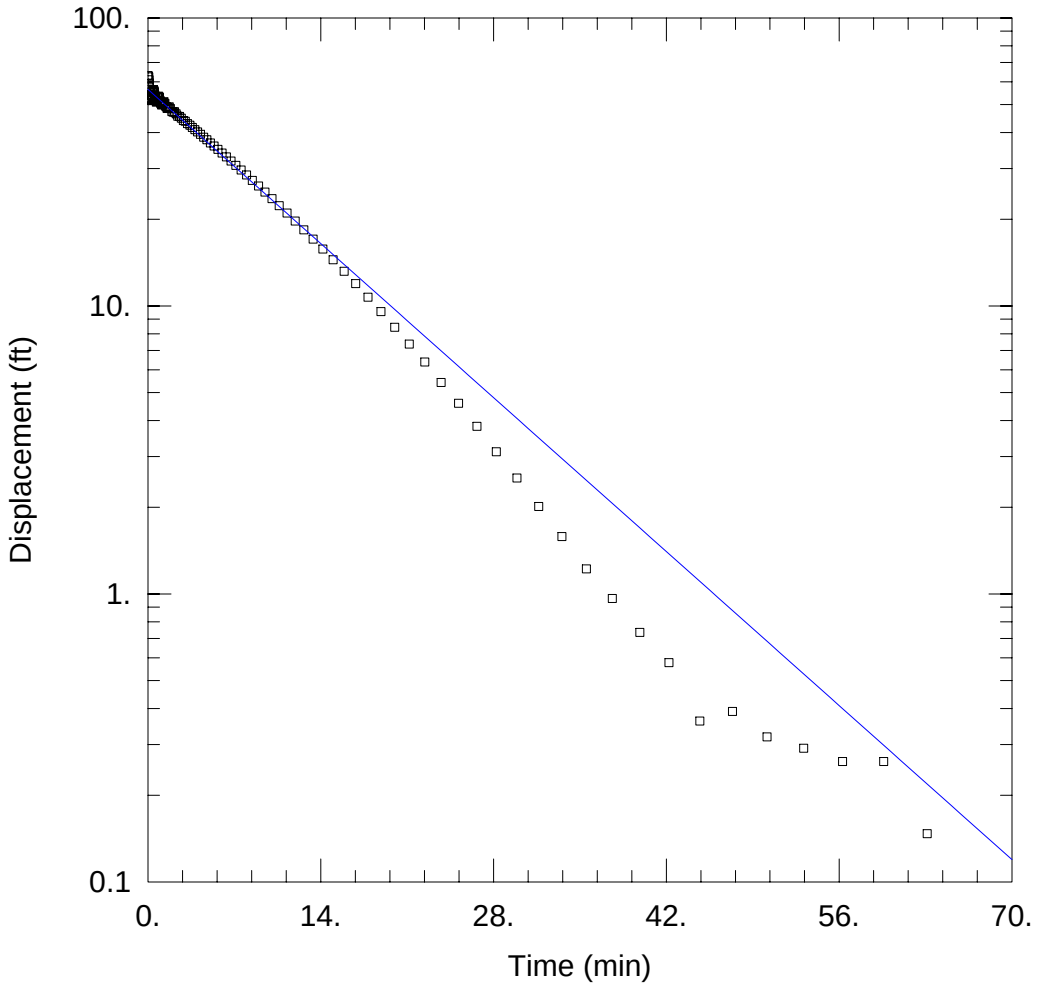
Saturated Thickness: 291. ft
Anisotropy Ratio (Kz/Kr): 0.01

WELL DATA (Core Hole)

Initial Displacement: 7. ft
Total Well Penetration Depth: 18. ft
Casing Radius: 0.098 ft
Static Water Column Height: 458. ft
Screen Length: 18. ft
Wellbore Radius: 0.125 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Butler
K = 109.7 ft/day
C(D) = 0.1939



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\0496 to 0514 ft bls_Hvorslev.aqt
Date: 03/09/05 Time: 13:05:20

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 02/01/01

AQUIFER DATA

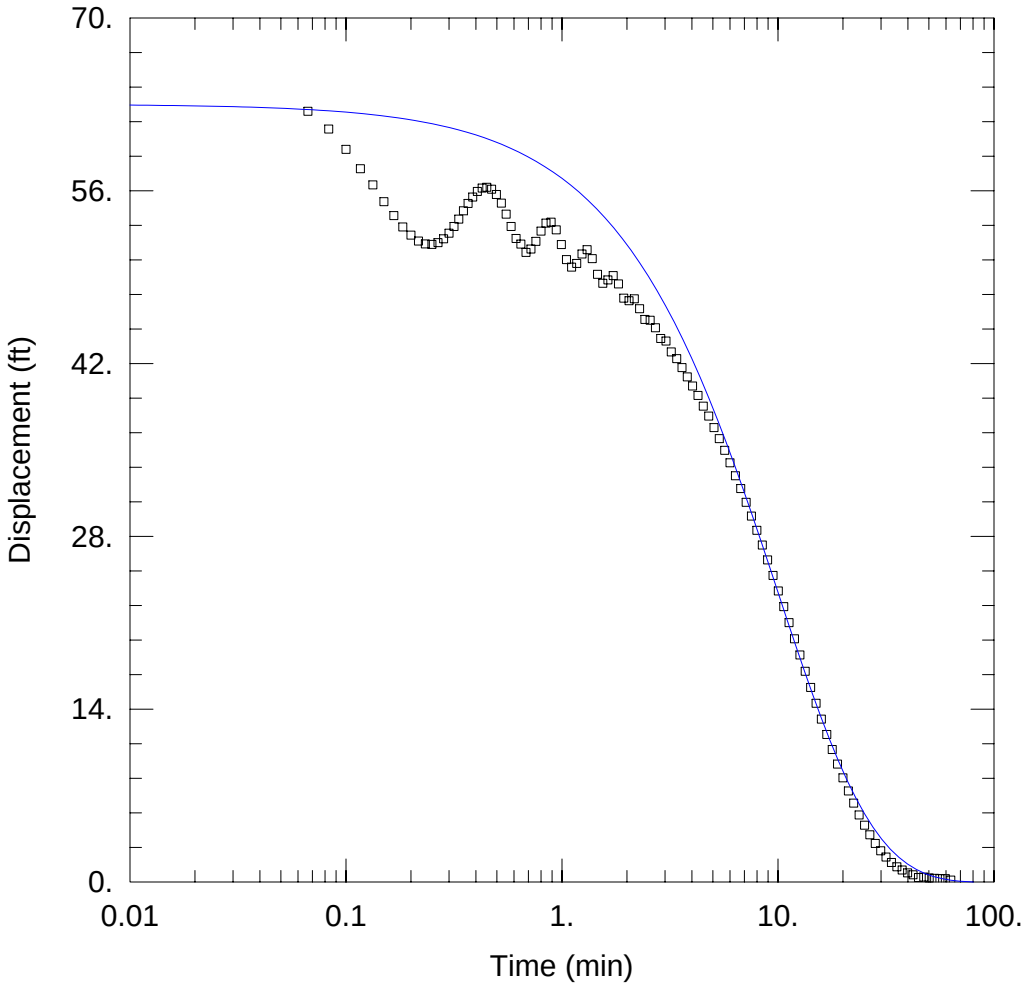
Saturated Thickness: 291. ft
Anisotropy Ratio (Kz/Kr): 0.01

WELL DATA (Core Hole)

Initial Displacement: 63. ft
Total Well Penetration Depth: 18. ft
Casing Radius: 0.098 ft
Static Water Column Height: 458. ft
Screen Length: 18. ft
Wellbore Radius: 0.125 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Hvorslev
K = 0.2458 ft/day
y0 = 56.45 ft



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\0496 to 0514 ft bls_KGS.aqt
Date: 03/09/05 Time: 13:05:06

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 02/01/01

AQUIFER DATA

Saturated Thickness: 291. ft

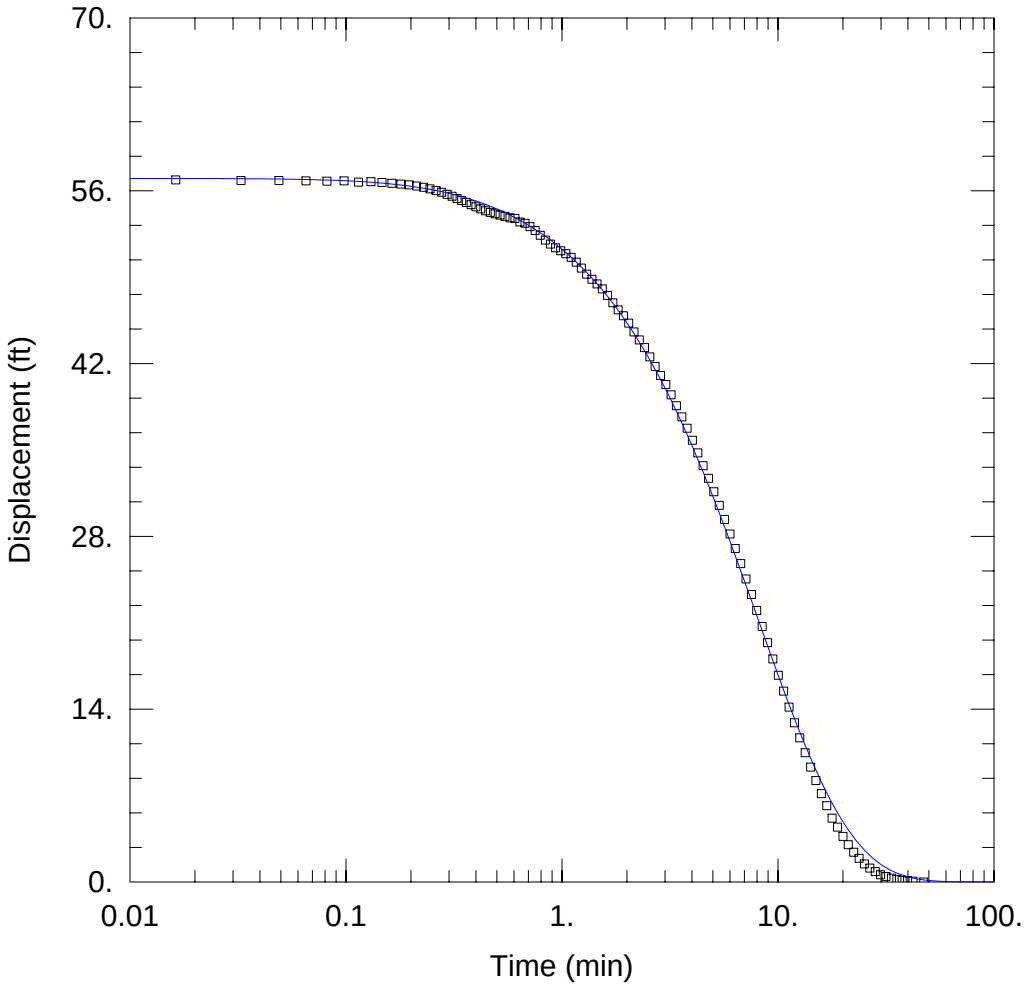
WELL DATA (Core Hole)

Initial Displacement: 63. ft
Total Well Penetration Depth: 18. ft
Casing Radius: 0.098 ft
Static Water Column Height: 458. ft
Screen Length: 18. ft
Wellbore Radius: 0.125 ft

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model

Kr = 0.2957 ft/day
Kz/Kr = 0.01
Ss = 3.436E-13 ft^{-1}



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\0496 to 0539 ft bls_Butler.aqt
Date: 03/09/05 Time: 13:04:47

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 02/01/01

AQUIFER DATA

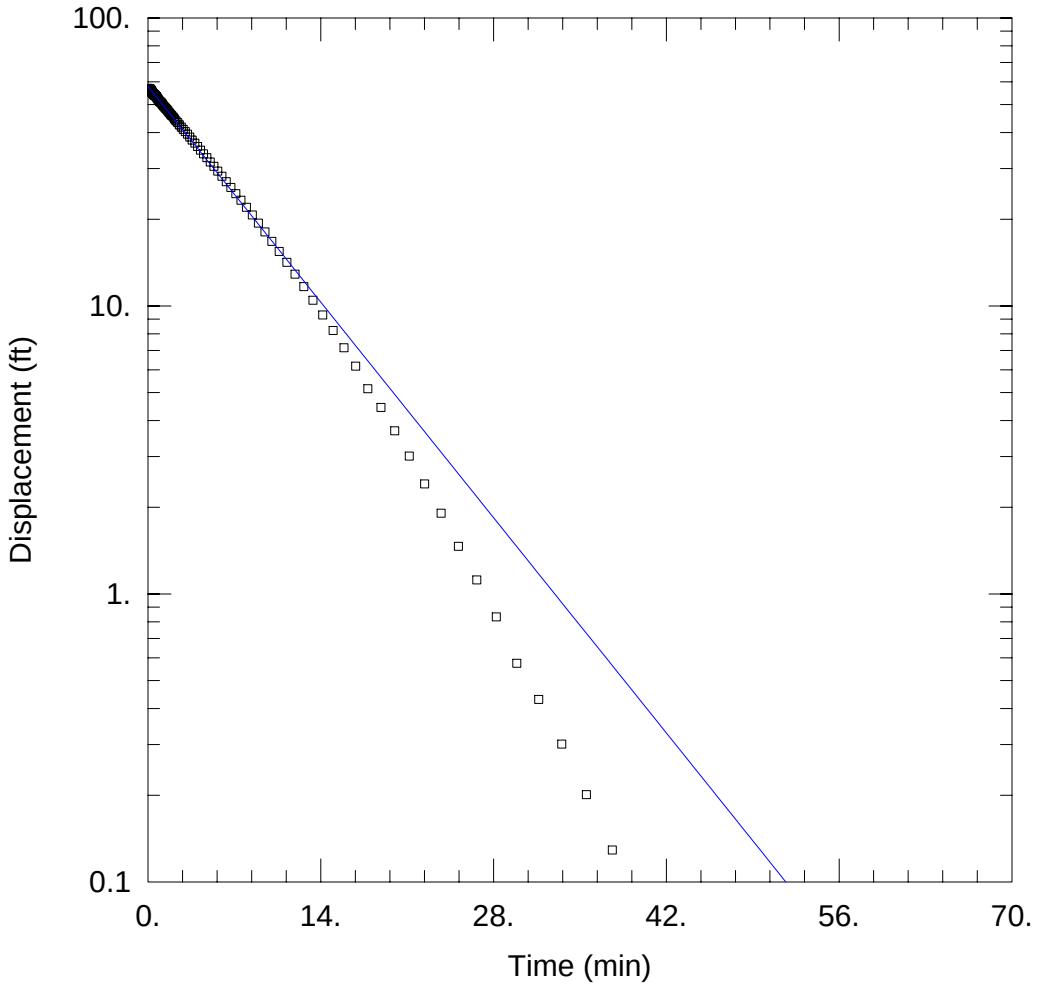
Saturated Thickness: 291. ft
Anisotropy Ratio (Kz/Kr): 0.01

WELL DATA (Core Hole)

Initial Displacement: 57. ft
Total Well Penetration Depth: 43. ft
Casing Radius: 0.098 ft
Static Water Column Height: 484. ft
Screen Length: 43. ft
Wellbore Radius: 0.125 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Butler
K = 0.1597 ft/day
C(D) = 3.802



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\0496 to 0539 ft bls_Hvorslev.aqt
Date: 03/09/05 Time: 13:04:27

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 02/01/01

AQUIFER DATA

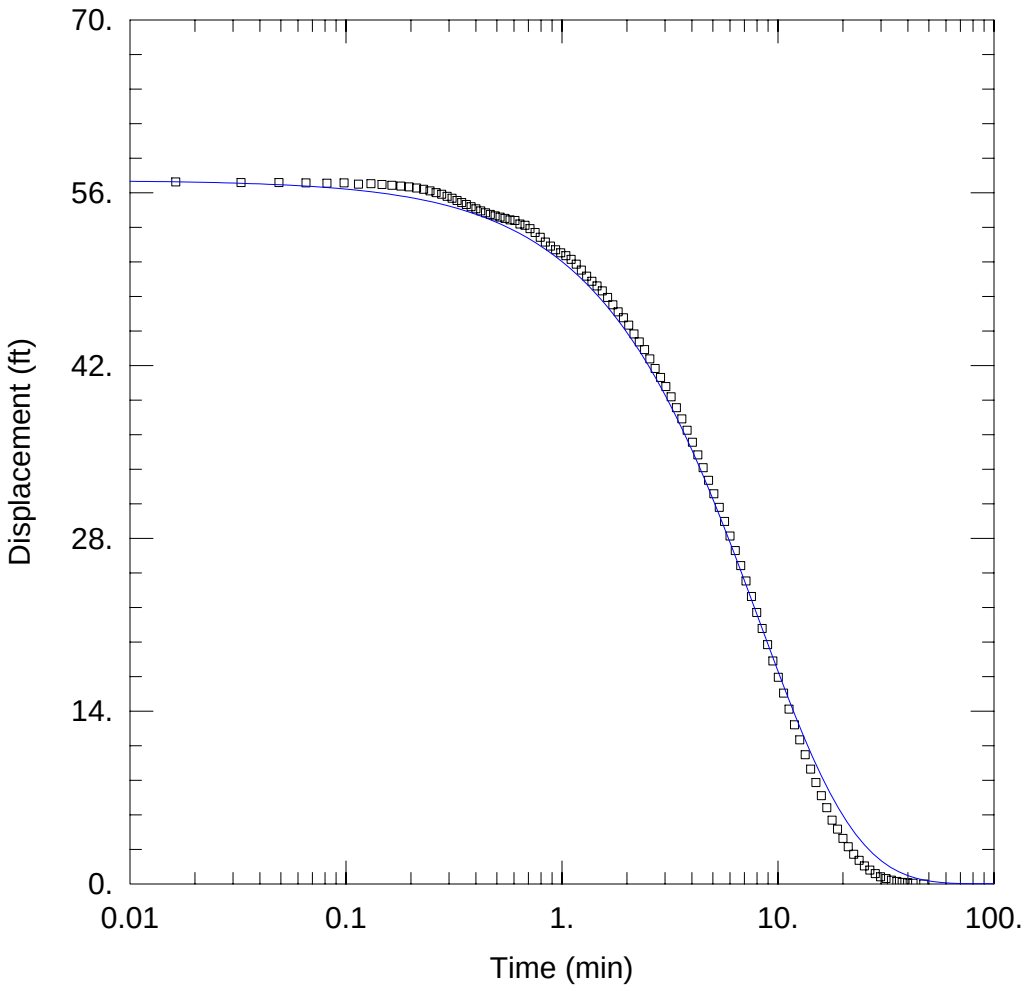
Saturated Thickness: 291. ft
Anisotropy Ratio (Kz/Kr): 0.01

WELL DATA (Core Hole)

Initial Displacement: 57. ft
Total Well Penetration Depth: 43. ft
Casing Radius: 0.098 ft
Static Water Column Height: 484. ft
Screen Length: 43. ft
Wellbore Radius: 0.125 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Hvorslev
K = 0.1612 ft/day
y0 = 57.78 ft



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\0496 to 0539 ft bls_KGS.aqt
Date: 03/09/05 Time: 13:04:08

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 02/01/01

AQUIFER DATA

Saturated Thickness: 291. ft

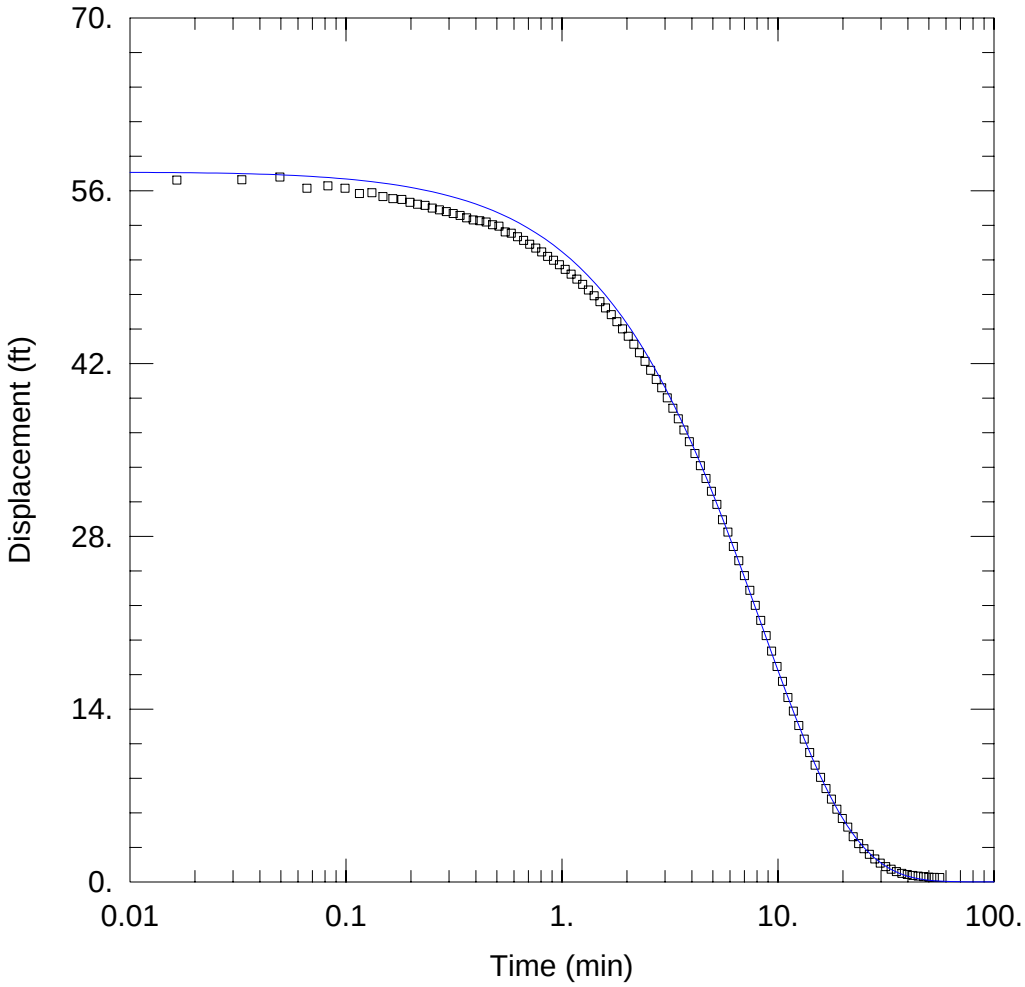
WELL DATA (Core Hole)

Initial Displacement: 57. ft
Total Well Penetration Depth: 43. ft
Casing Radius: 0.098 ft
Static Water Column Height: 484. ft
Screen Length: 43. ft
Wellbore Radius: 0.125 ft

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model

Kr = 0.1707 ft/day
Kz/Kr = 0.01
Ss = 3.436E-13 ft^{-1}



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\0554 to 0579 ft bls_Butler.aqt
Date: 03/09/05 Time: 13:03:53

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 02/07/01

AQUIFER DATA

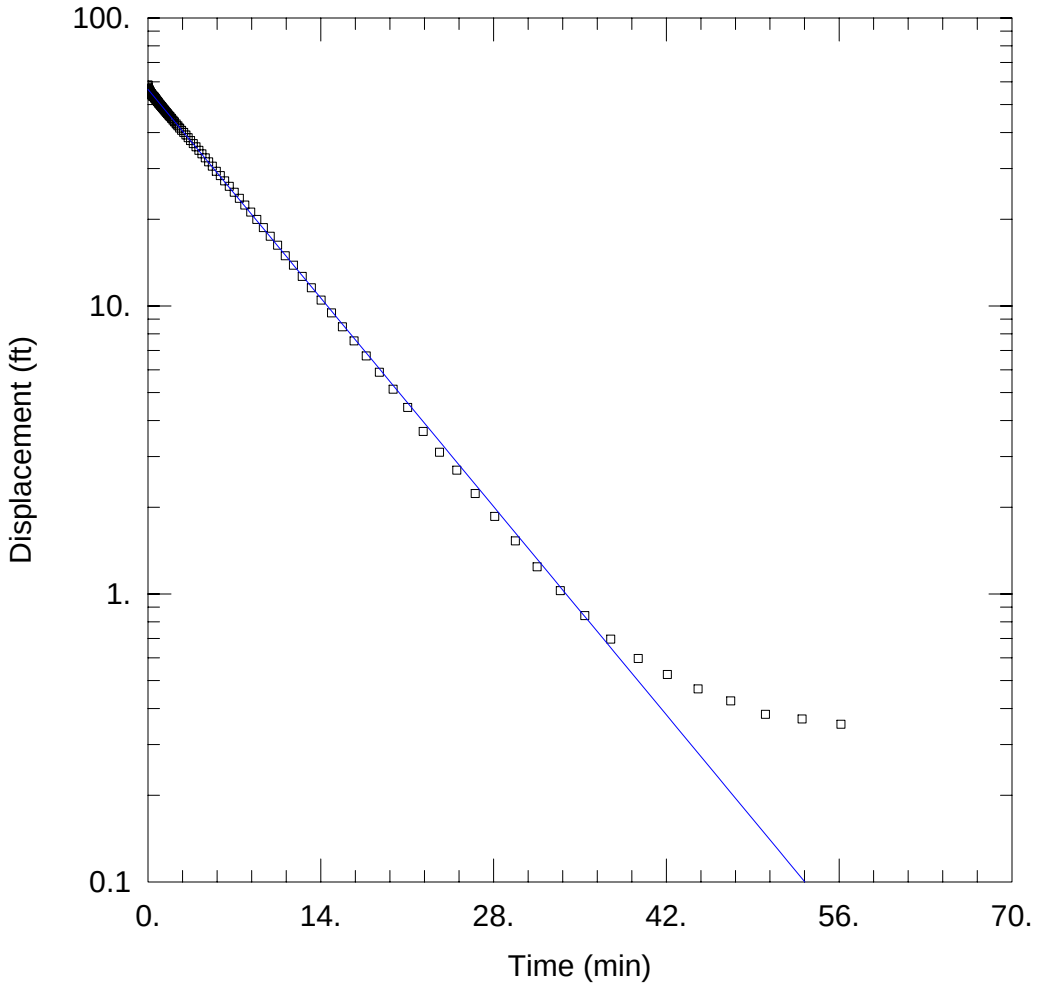
Saturated Thickness: 274. ft
Anisotropy Ratio (Kz/Kr): 0.01

WELL DATA (Core Hole)

Initial Displacement: 57.5 ft
Total Well Penetration Depth: 83. ft
Casing Radius: 0.098 ft
Static Water Column Height: 523. ft
Screen Length: 25. ft
Wellbore Radius: 0.125 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Butler
K = 0.2545 ft/day
C(D) = 10.



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\0554 to 0579 ft bls_Hvorslev.aqt
Date: 03/09/05 Time: 13:03:39

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 02/07/01

AQUIFER DATA

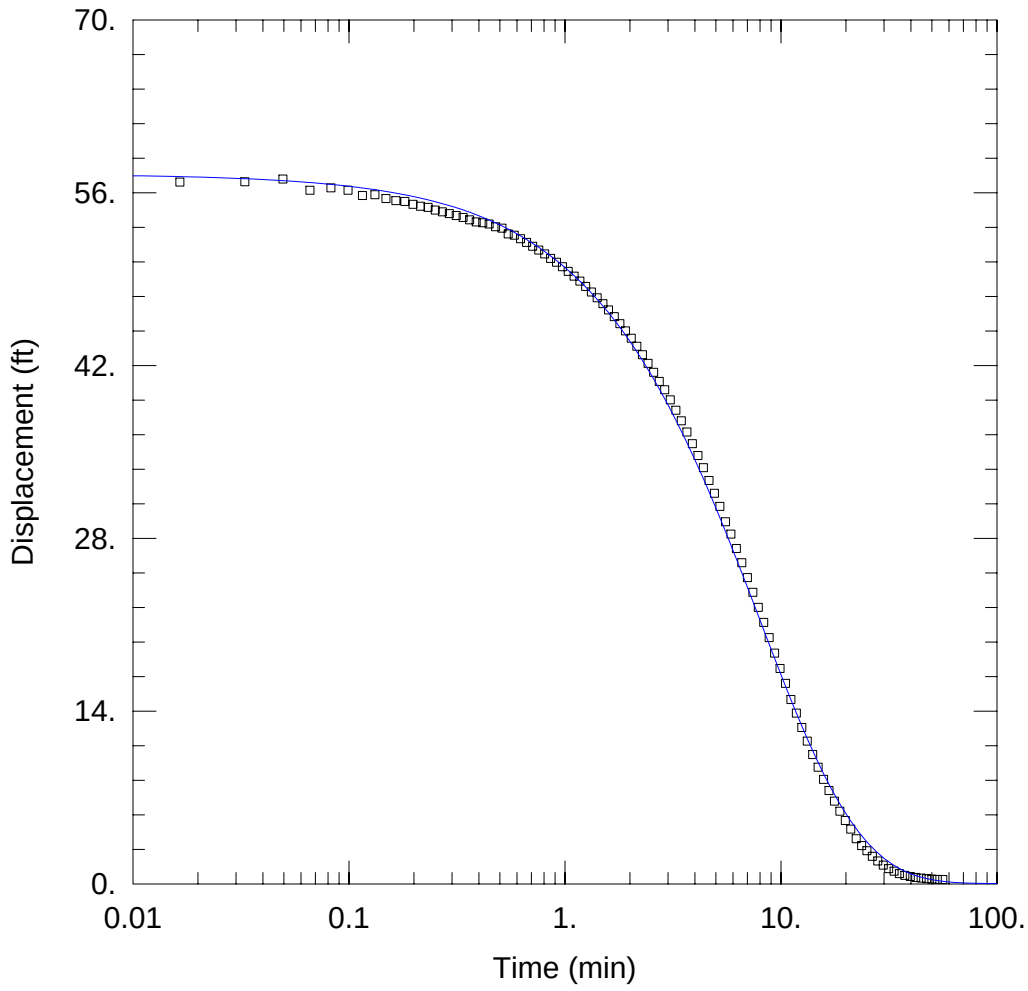
Saturated Thickness: 274. ft
Anisotropy Ratio (Kz/Kr): 0.01

WELL DATA (Core Hole)

Initial Displacement: 57.5 ft
Total Well Penetration Depth: 83. ft
Casing Radius: 0.098 ft
Static Water Column Height: 523. ft
Screen Length: 25. ft
Wellbore Radius: 0.125 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Hvorslev
K = 0.2503 ft/day
y0 = 56.47 ft



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\0554 to 0579 ft bls_KGS.aqt
Date: 03/09/05 Time: 13:06:28

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 02/07/01

AQUIFER DATA

Saturated Thickness: 274. ft

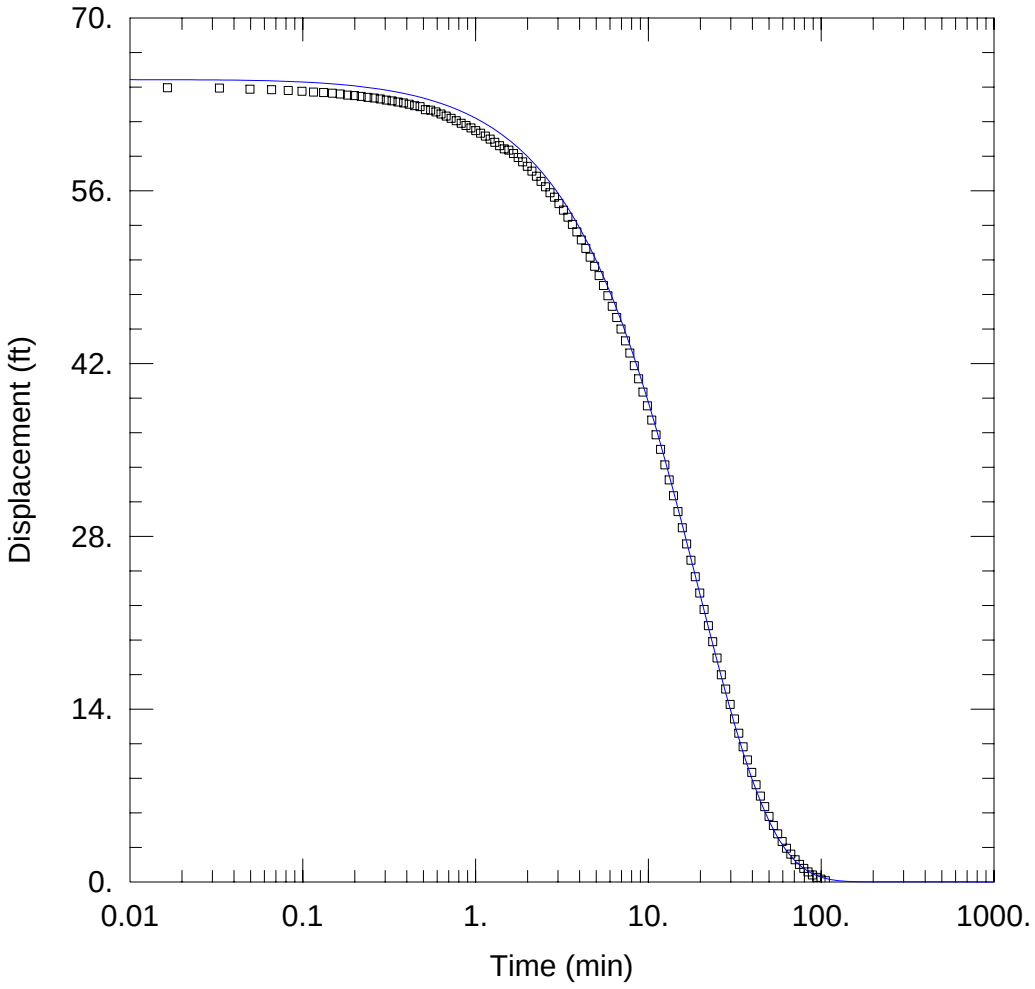
WELL DATA (Core Hole)

Initial Displacement: 57.5 ft
Total Well Penetration Depth: 83. ft
Casing Radius: 0.098 ft
Static Water Column Height: 523. ft
Screen Length: 25. ft
Wellbore Radius: 0.125 ft

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model

Kr = 0.234 ft/day
Kz/Kr = 0.01
Ss = 3.568E-8 ft^{-1}



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\0654 to 0679 ft bls_Butler.aqt
Date: 03/09/05 Time: 13:07:26

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 02/13/01

AQUIFER DATA

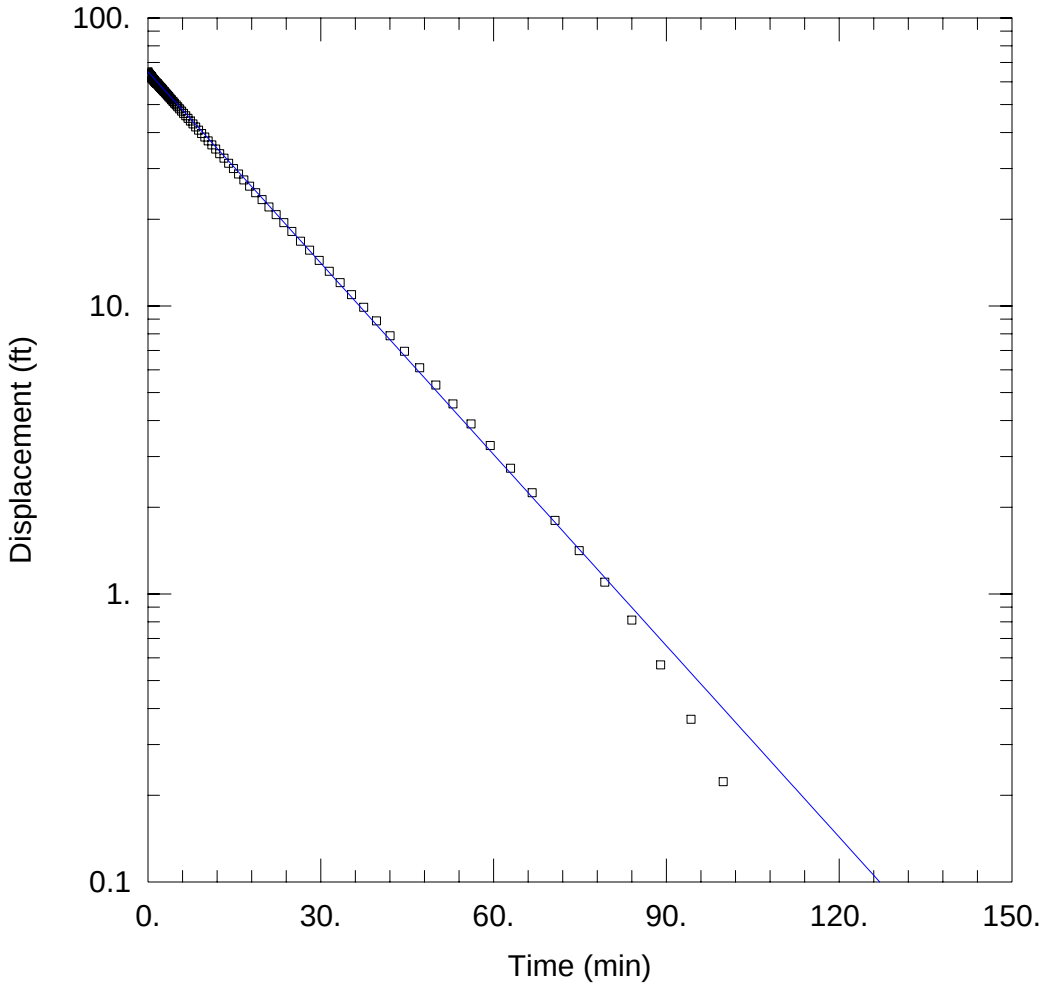
Saturated Thickness: 274. ft
Anisotropy Ratio (Kz/Kr): 0.01

WELL DATA (Core Hole)

Initial Displacement: 65. ft
Total Well Penetration Depth: 183. ft
Casing Radius: 0.098 ft
Static Water Column Height: 622.5 ft
Screen Length: 25. ft
Wellbore Radius: 0.125 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Butler
K = 0.1084 ft/day
C(D) = 10.



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\0654 to 0679 ft bls_Hvorslev.aqt
Date: 03/09/05 Time: 13:09:41

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 02/13/01

AQUIFER DATA

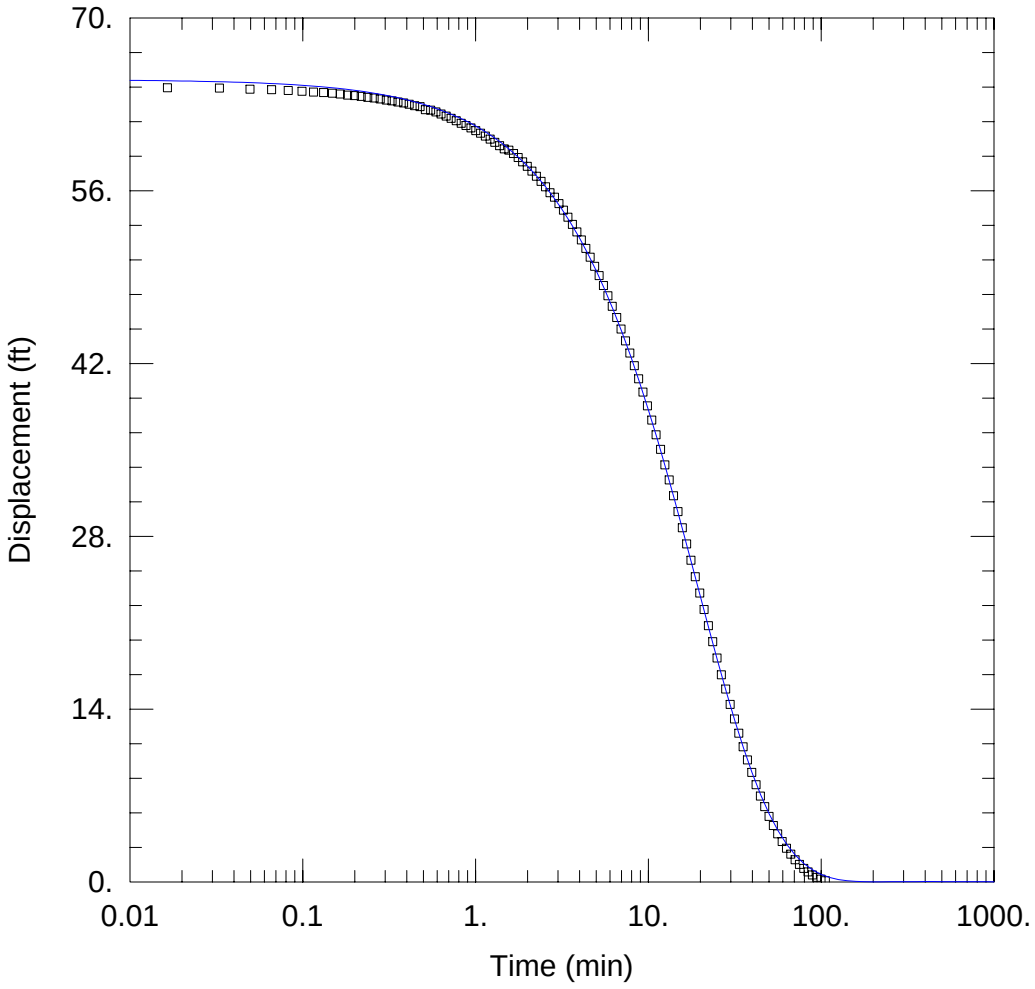
Saturated Thickness: 274. ft
Anisotropy Ratio (Kz/Kr): 0.01

WELL DATA (Core Hole)

Initial Displacement: 65. ft
Total Well Penetration Depth: 183. ft
Casing Radius: 0.098 ft
Static Water Column Height: 622.5 ft
Screen Length: 25. ft
Wellbore Radius: 0.125 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Hvorslev
K = 0.1072 ft/day
y0 = 65. ft



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\0654 to 0679 ft bls_KGS.aqt
Date: 03/09/05 Time: 13:09:25

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 02/13/01

AQUIFER DATA

Saturated Thickness: 274. ft

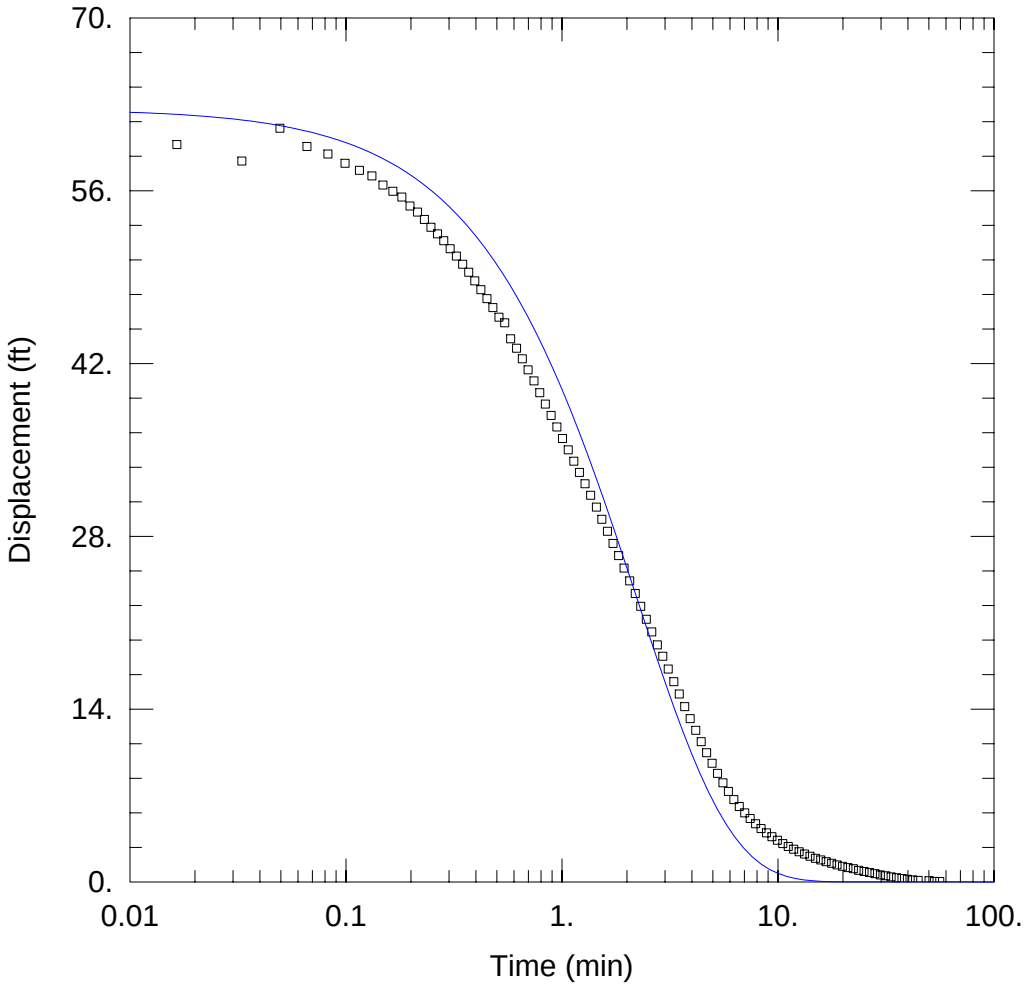
WELL DATA (Core Hole)

Initial Displacement: 65. ft
Total Well Penetration Depth: 183. ft
Casing Radius: 0.098 ft
Static Water Column Height: 622.5 ft
Screen Length: 25. ft
Wellbore Radius: 0.125 ft

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model

Kr = 0.1005 ft/day
Kz/Kr = 0.01
Ss = 1.104E-8 ft^{-1}



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\0769 to 0794 ft bls_Butler.aqt
Date: 03/09/05 Time: 13:09:08

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 02/21/01

AQUIFER DATA

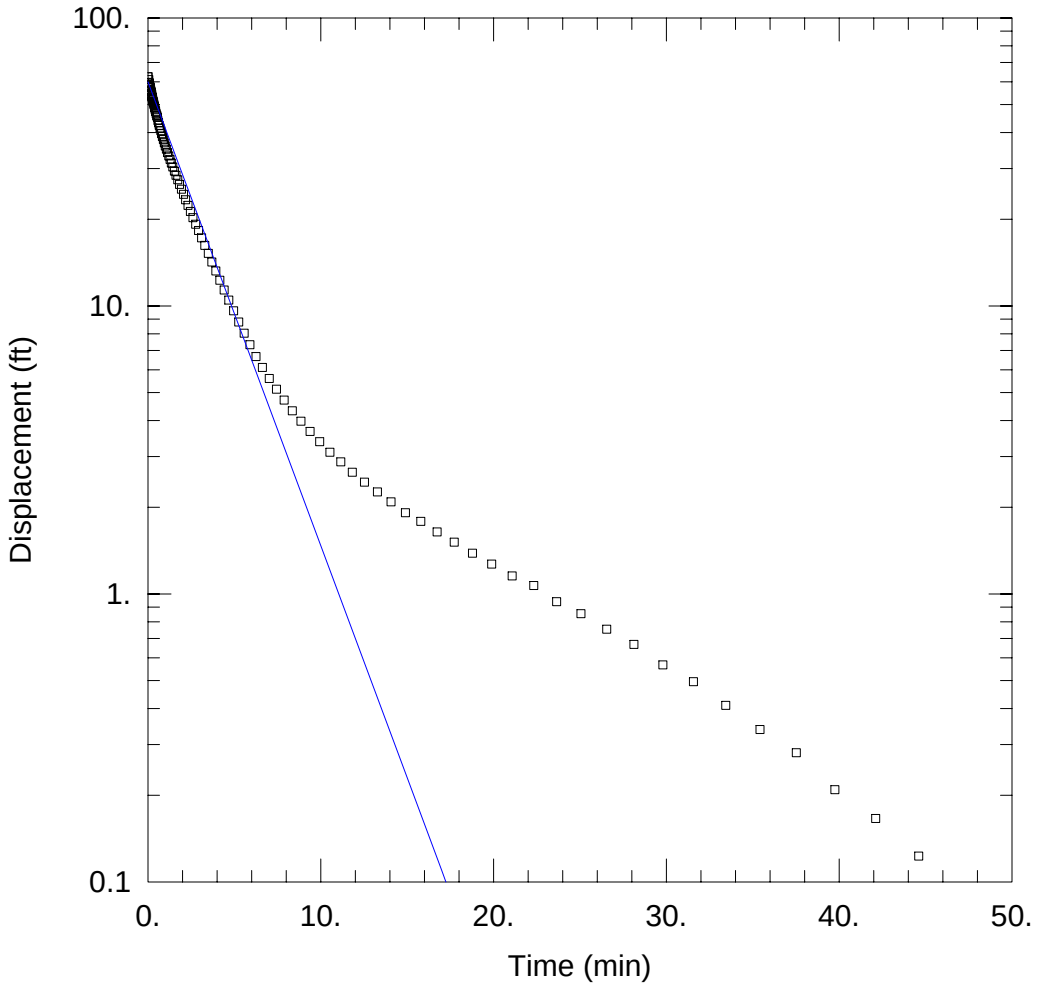
Saturated Thickness: 880. ft Anisotropy Ratio (Kz/Kr): 0.01

WELL DATA (Core Hole)

Initial Displacement: 62.5 ft
Total Well Penetration Depth: 24. ft
Casing Radius: 0.098 ft
Static Water Column Height: 737.6 ft
Screen Length: 25. ft
Wellbore Radius: 0.125 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Butler
K = 0.948 ft/day
C(D) = 10.



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\0769 to 0794 ft bls_Hvorslev.aqt
Date: 03/09/05 Time: 13:08:37

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 02/21/01

AQUIFER DATA

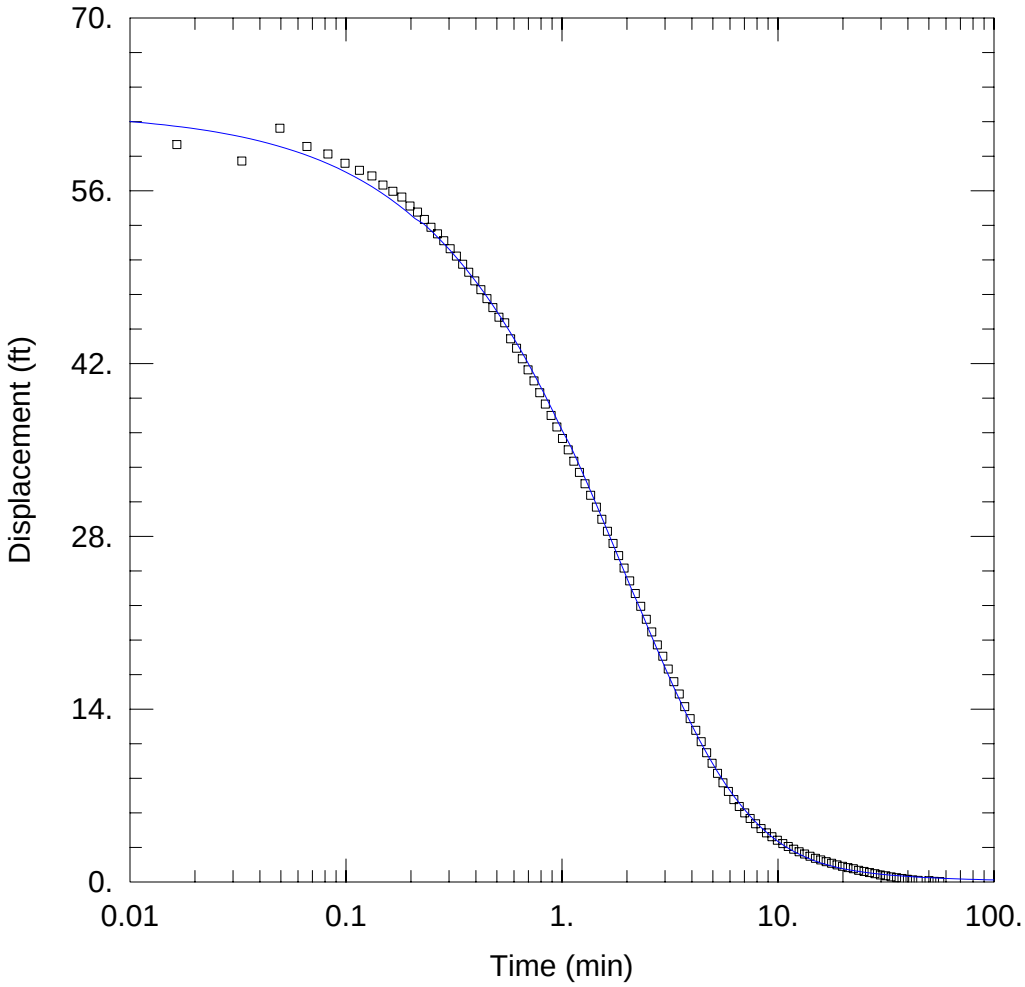
Saturated Thickness: 880. ft
Anisotropy Ratio (Kz/Kr): 0.01

WELL DATA (Core Hole)

Initial Displacement: 62.5 ft
Total Well Penetration Depth: 24. ft
Casing Radius: 0.098 ft
Static Water Column Height: 737.6 ft
Screen Length: 25. ft
Wellbore Radius: 0.125 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Hvorslev
K = 0.7798 ft/day
y0 = 60.02 ft



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\0769 to 0794 ft bls_KGS.aqt
Date: 03/09/05 Time: 13:08:18

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 02/21/01

AQUIFER DATA

Saturated Thickness: 880. ft

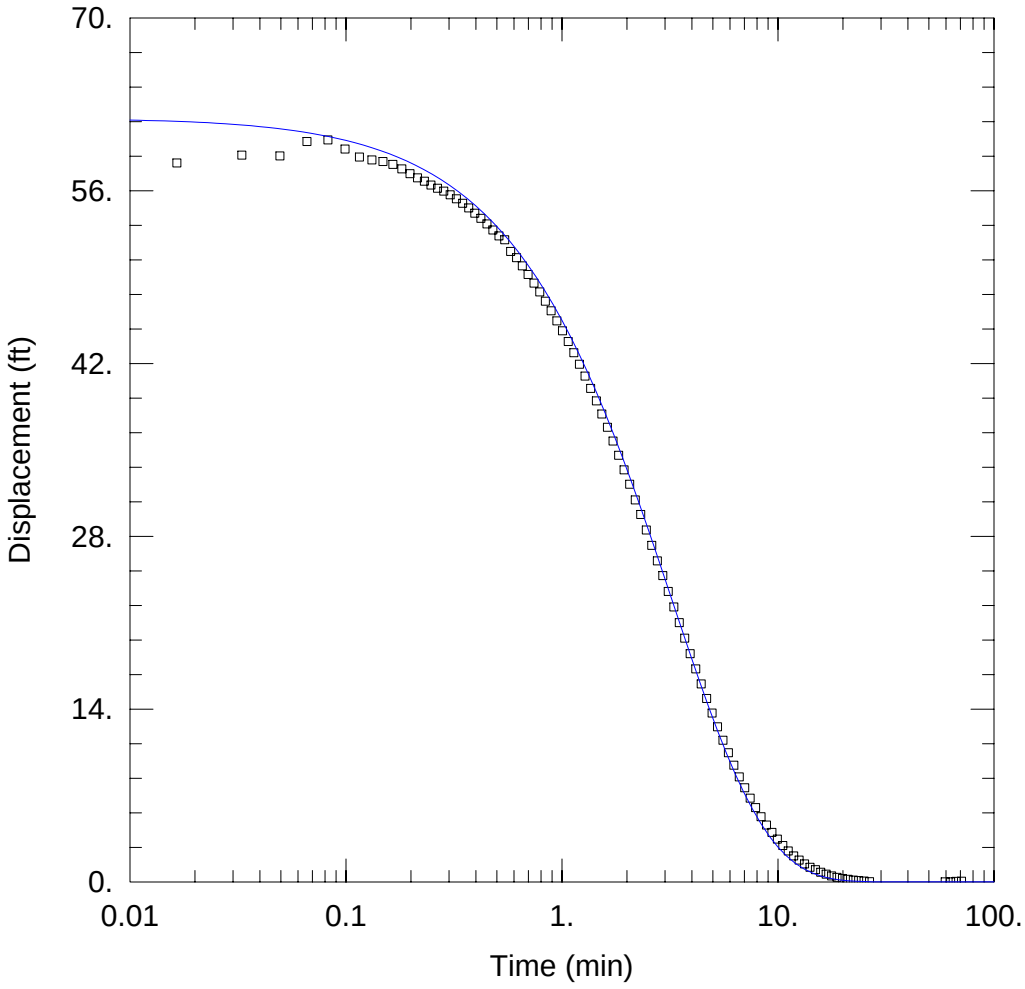
WELL DATA (Core Hole)

Initial Displacement: 62.5 ft
Total Well Penetration Depth: 24. ft
Casing Radius: 0.098 ft
Static Water Column Height: 737.6 ft
Screen Length: 25. ft
Wellbore Radius: 0.125 ft

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model

Kr = 0.5609 ft/day
Kz/Kr = 0.01
Ss = 2.354E-5 ft^{-1}



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\0854 to 0879 ft bls_Butler.aqt
Date: 03/09/05 Time: 13:08:03

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 03/06/01

AQUIFER DATA

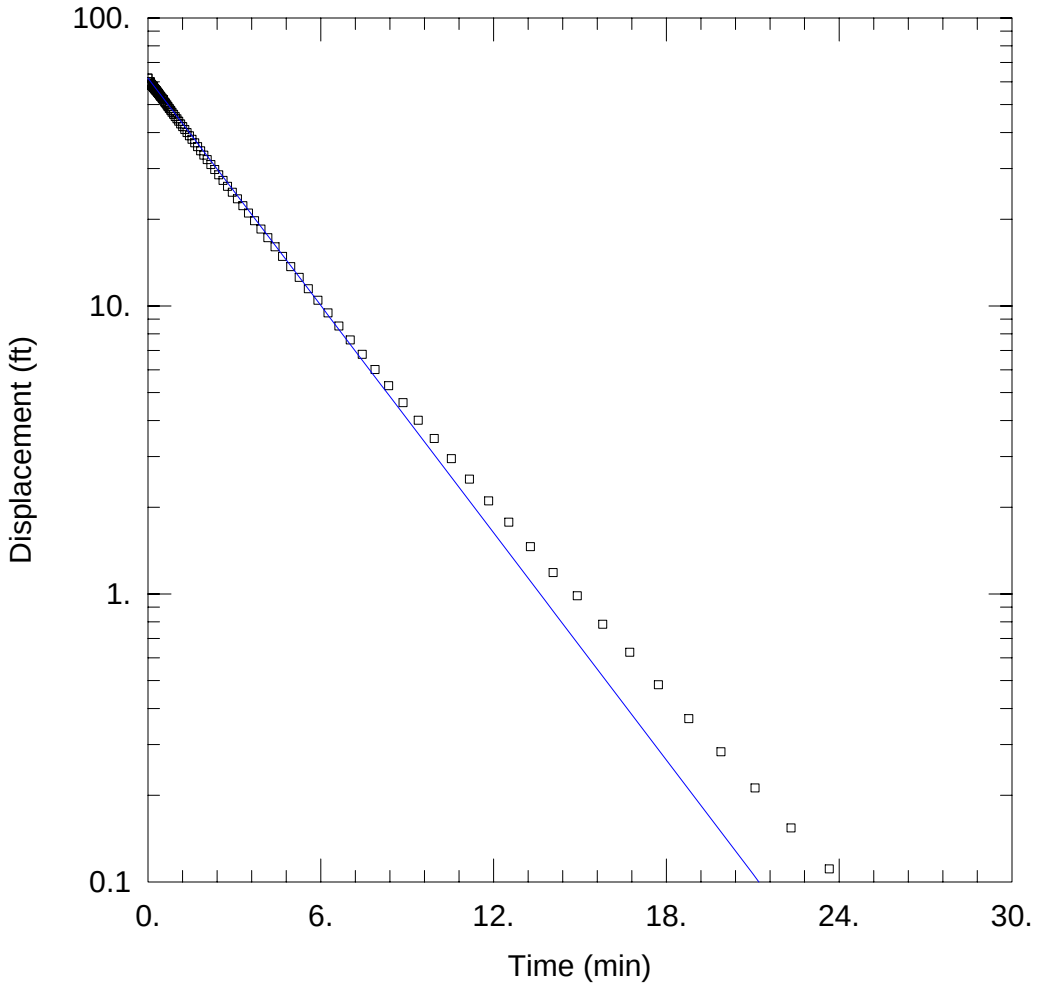
Saturated Thickness: 880. ft
Anisotropy Ratio (Kz/Kr): 0.01

WELL DATA (Core Hole)

Initial Displacement: 61.8 ft
Total Well Penetration Depth: 109. ft
Casing Radius: 0.098 ft
Static Water Column Height: 821.5 ft
Screen Length: 25. ft
Wellbore Radius: 0.125 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Butler
K = 0.6486 ft/day
C(D) = 10.



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\0854 to 0879 ft bls_Hvorslev.aqt
Date: 03/09/05 Time: 13:07:47

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 03/06/01

AQUIFER DATA

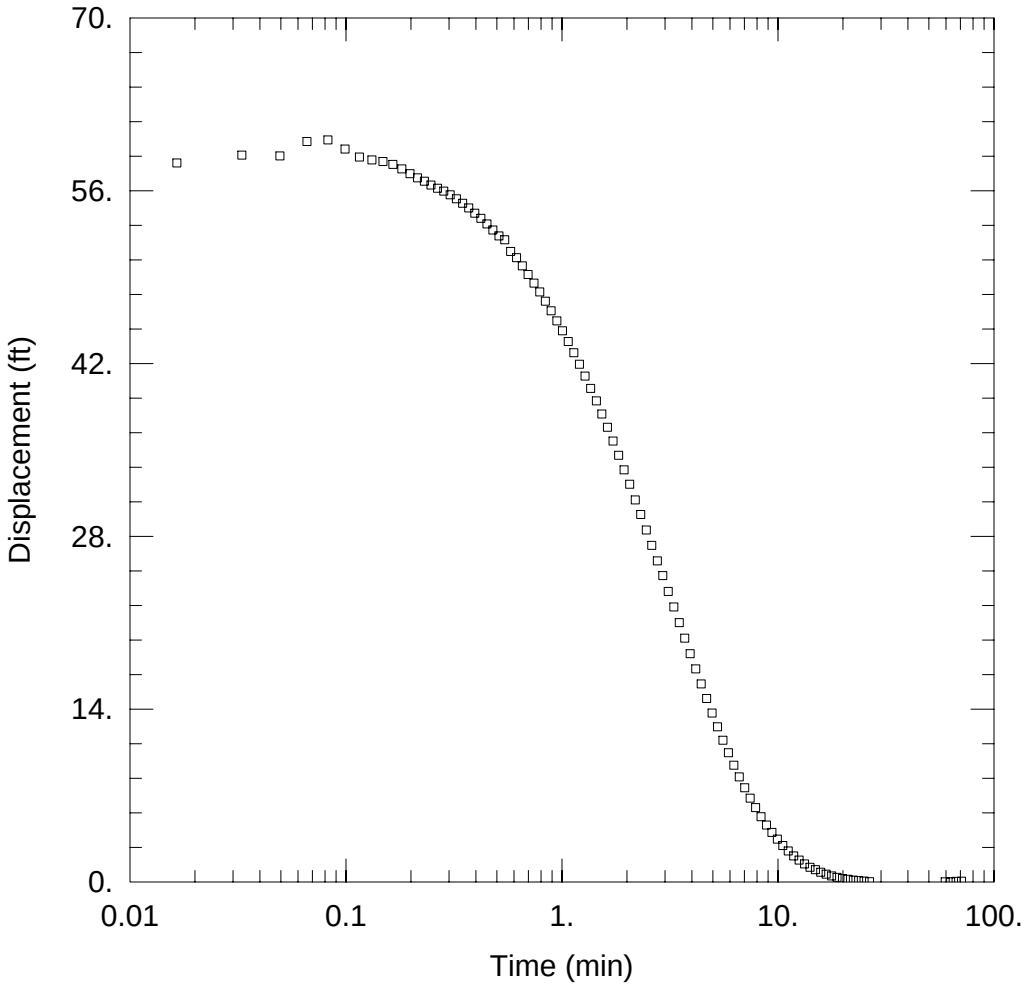
Saturated Thickness: 880. ft
Anisotropy Ratio (Kz/Kr): 0.01

WELL DATA (Core Hole)

Initial Displacement: 61.8 ft
Total Well Penetration Depth: 109. ft
Casing Radius: 0.098 ft
Static Water Column Height: 821.5 ft
Screen Length: 25. ft
Wellbore Radius: 0.125 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Hvorslev
K = 0.6368 ft/day
y0 = 61.8 ft



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\0854 to 0879 ft bls_KGS.aqt
Date: 03/09/05 Time: 13:09:57

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 03/06/01

AQUIFER DATA

Saturated Thickness: 880. ft

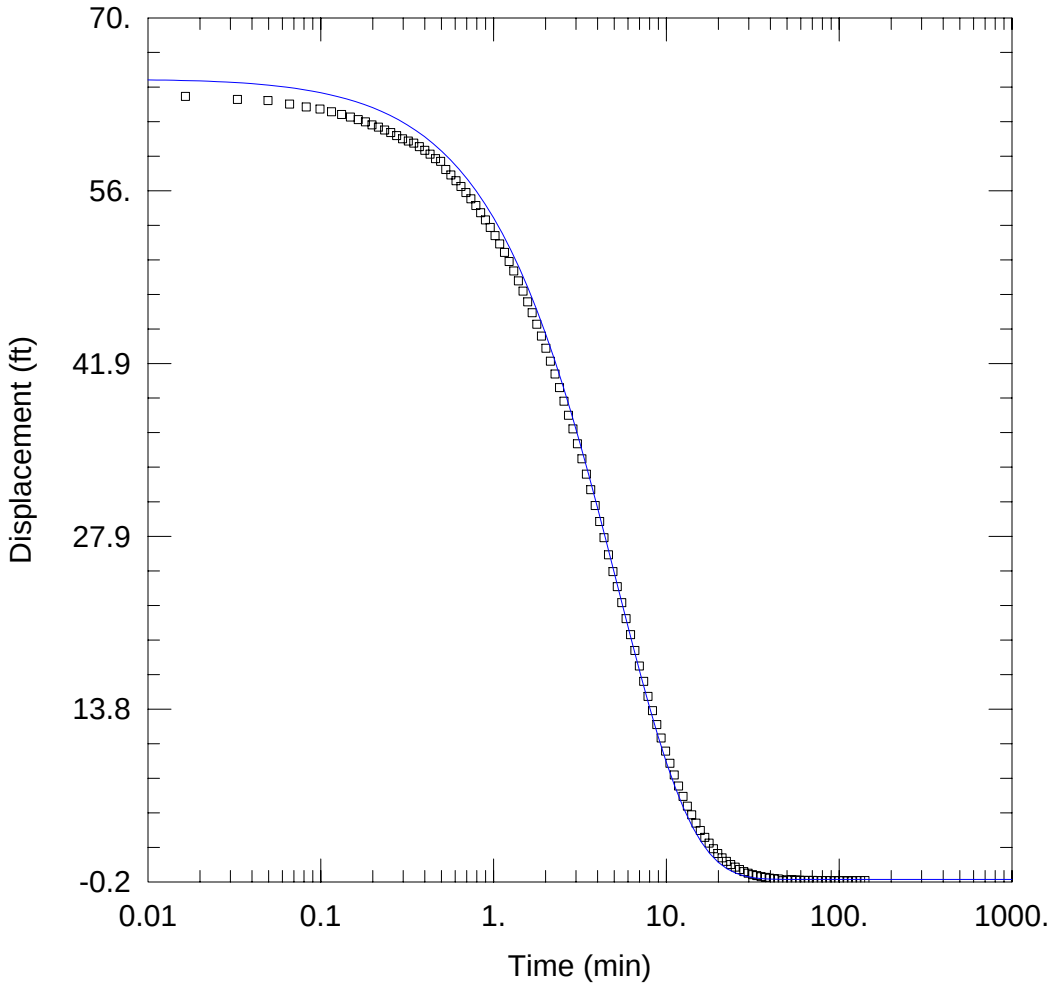
WELL DATA (Core Hole)

Initial Displacement: 61.8 ft
Total Well Penetration Depth: 109. ft
Casing Radius: 0.098 ft
Static Water Column Height: 821.5 ft
Screen Length: 25. ft
Wellbore Radius: 0.125 ft

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model

Kr = 0.5985 ft/day
Kz/Kr = 0.01
Ss = 1.138E-8 ft^{-1}



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\0956 to 0984 ft bls_Butler.aqt
Date: 03/09/05 Time: 13:10:26

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 03/22/01

AQUIFER DATA

Saturated Thickness: 880. ft Anisotropy Ratio (Kz/Kr): 0.01

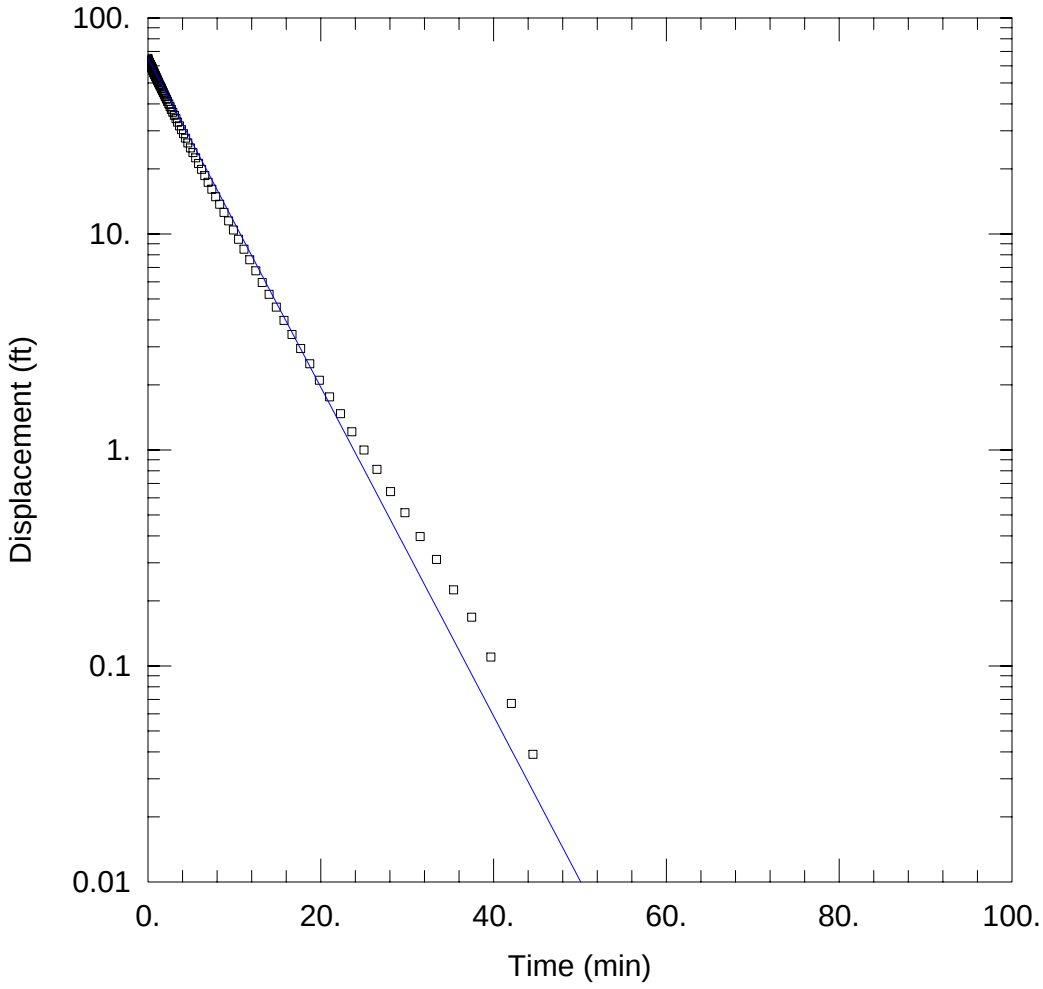
WELL DATA (Core Hole)

Initial Displacement: 65. ft
Total Well Penetration Depth: 214. ft
Casing Radius: 0.098 ft
Static Water Column Height: 949.7 ft
Screen Length: 28. ft
Wellbore Radius: 0.125 ft

SOLUTION

Aquifer Model: Confined Solution Method: Butler

K = 0.3659 ft/day C(D) = 10.



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\0956 to 0984 ft bls_Hvorslev.aqt
Date: 03/09/05 Time: 13:12:16

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 03/22/01

AQUIFER DATA

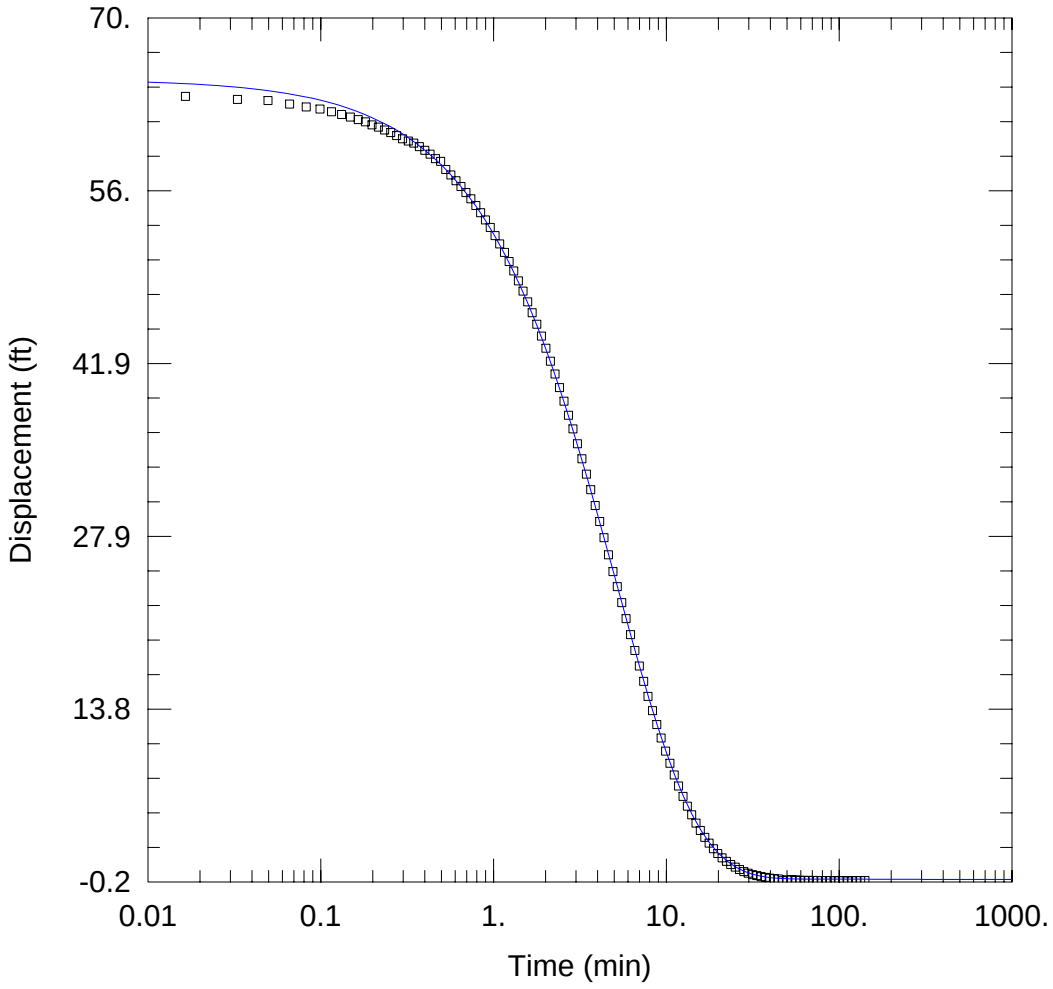
Saturated Thickness: 880. ft
Anisotropy Ratio (Kz/Kr): 0.01

WELL DATA (Core Hole)

Initial Displacement: 65. ft
Total Well Penetration Depth: 214. ft
Casing Radius: 0.098 ft
Static Water Column Height: 949.7 ft
Screen Length: 28. ft
Wellbore Radius: 0.125 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Hvorslev
K = 0.334 ft/day
y0 = 65. ft



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\0956 to 0984 ft bls_KGS.aqt
Date: 03/09/05 Time: 13:12:00

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 03/22/01

AQUIFER DATA

Saturated Thickness: 880. ft

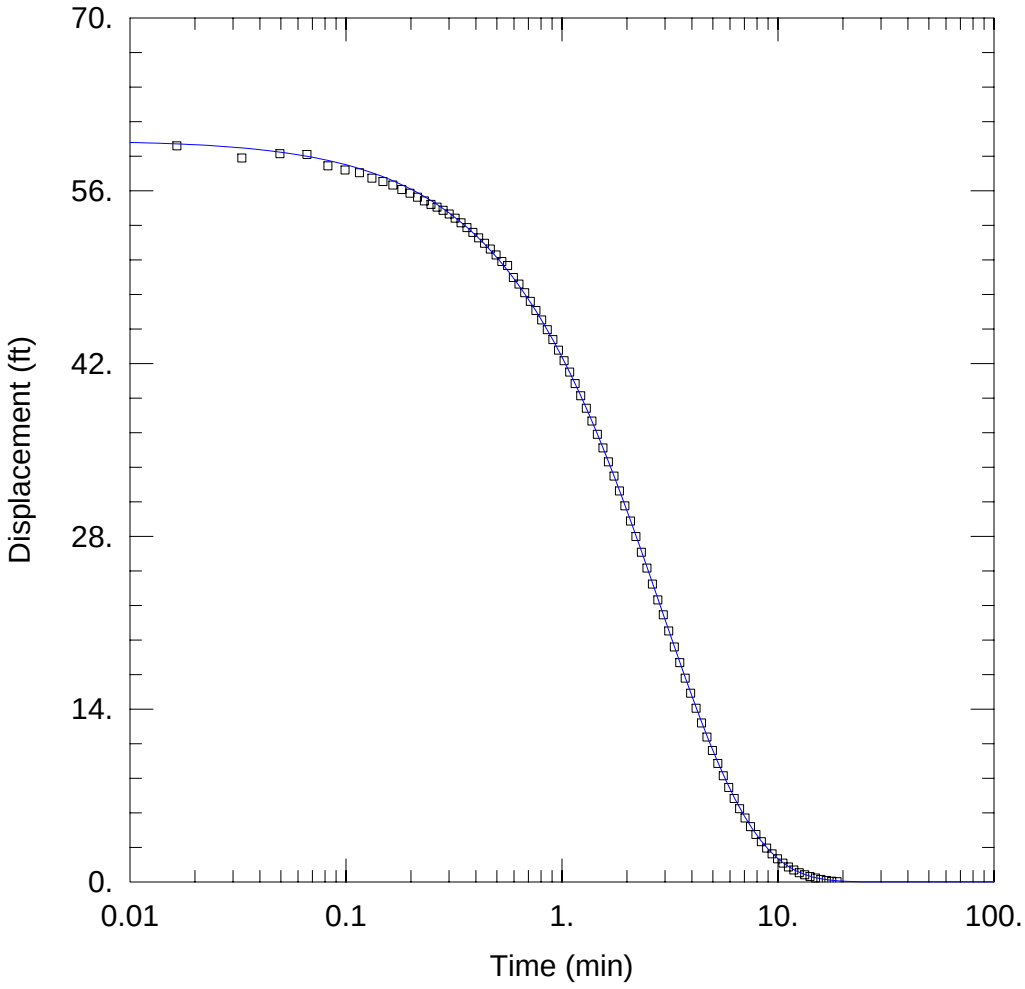
WELL DATA (Core Hole)

Initial Displacement: 65. ft
Total Well Penetration Depth: 214. ft
Casing Radius: 0.098 ft
Static Water Column Height: 949.7 ft
Screen Length: 28. ft
Wellbore Radius: 0.125 ft

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model

Kr = 0.3286 ft/day
Kz/Kr = 0.01
Ss = 3.107E-8 ft^{-1}



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\1054 to 1079 ft bls_Butler.aqt
Date: 03/09/05 Time: 13:11:45

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 04/03/01

AQUIFER DATA

Saturated Thickness: 880. ft Anisotropy Ratio (Kz/Kr): 0.01

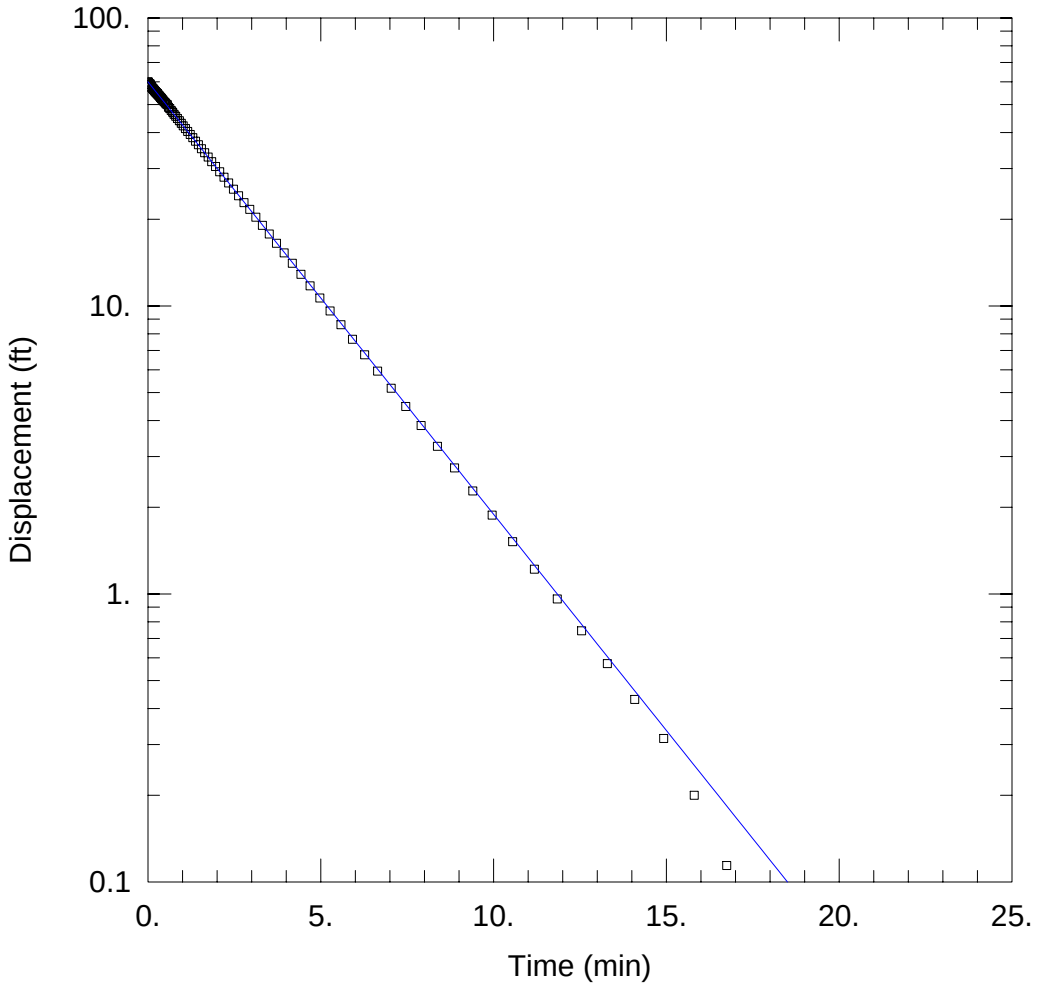
WELL DATA (Core Hole)

Initial Displacement: 60. ft
Total Well Penetration Depth: 309. ft
Casing Radius: 0.098 ft
Static Water Column Height: 1025.5 ft
Screen Length: 25. ft
Wellbore Radius: 0.125 ft

SOLUTION

Aquifer Model: Confined Solution Method: Butler

K = 0.7284 ft/day C(D) = 10.



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\1054 to 1079 ft bls_Hvorslev.aqt
Date: 03/09/05 Time: 13:11:28

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 04/03/01

AQUIFER DATA

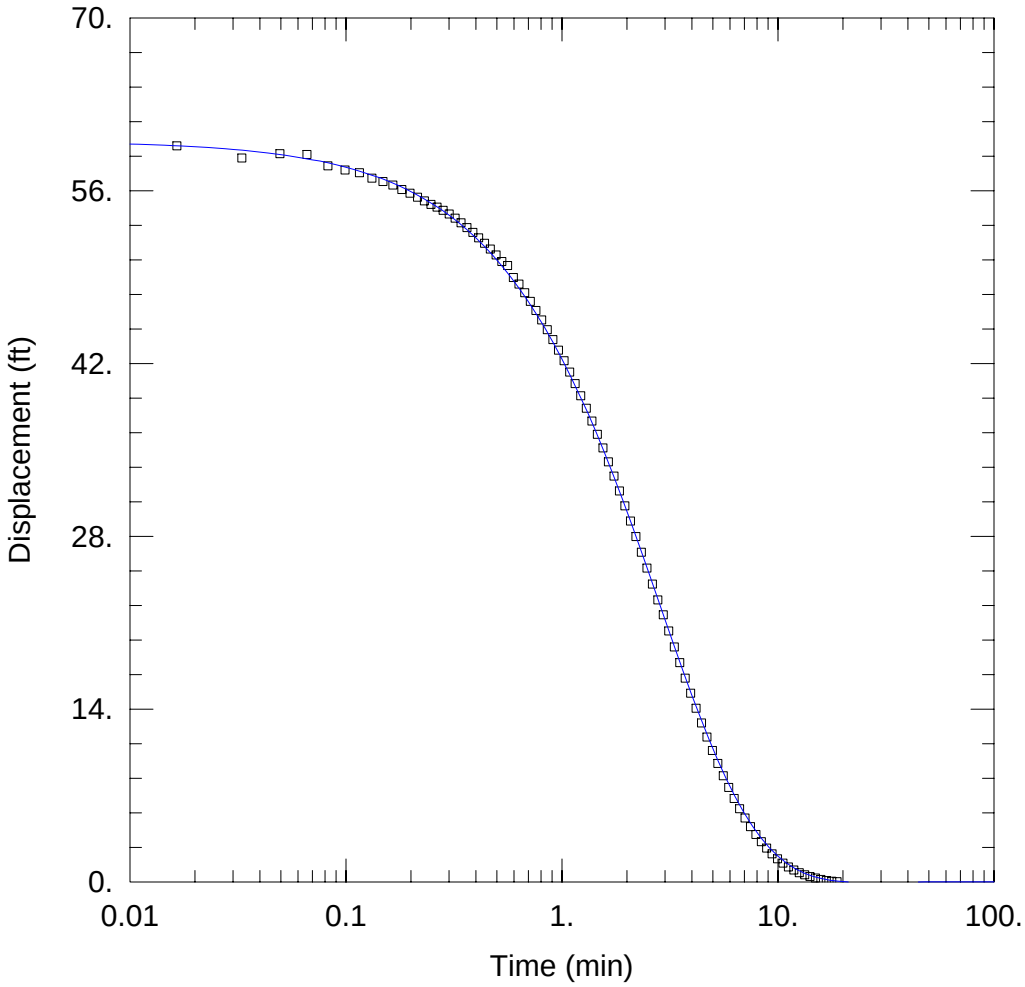
Saturated Thickness: 880. ft
Anisotropy Ratio (Kz/Kr): 0.01

WELL DATA (Core Hole)

Initial Displacement: 60. ft
Total Well Penetration Depth: 309. ft
Casing Radius: 0.098 ft
Static Water Column Height: 1025.5 ft
Screen Length: 25. ft
Wellbore Radius: 0.125 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Hvorslev
K = 0.7269 ft/day
y0 = 59.99 ft



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\1054 to 1079 ft bls_KGS.aqt
Date: 03/09/05 Time: 13:11:13

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 04/03/01

AQUIFER DATA

Saturated Thickness: 880. ft

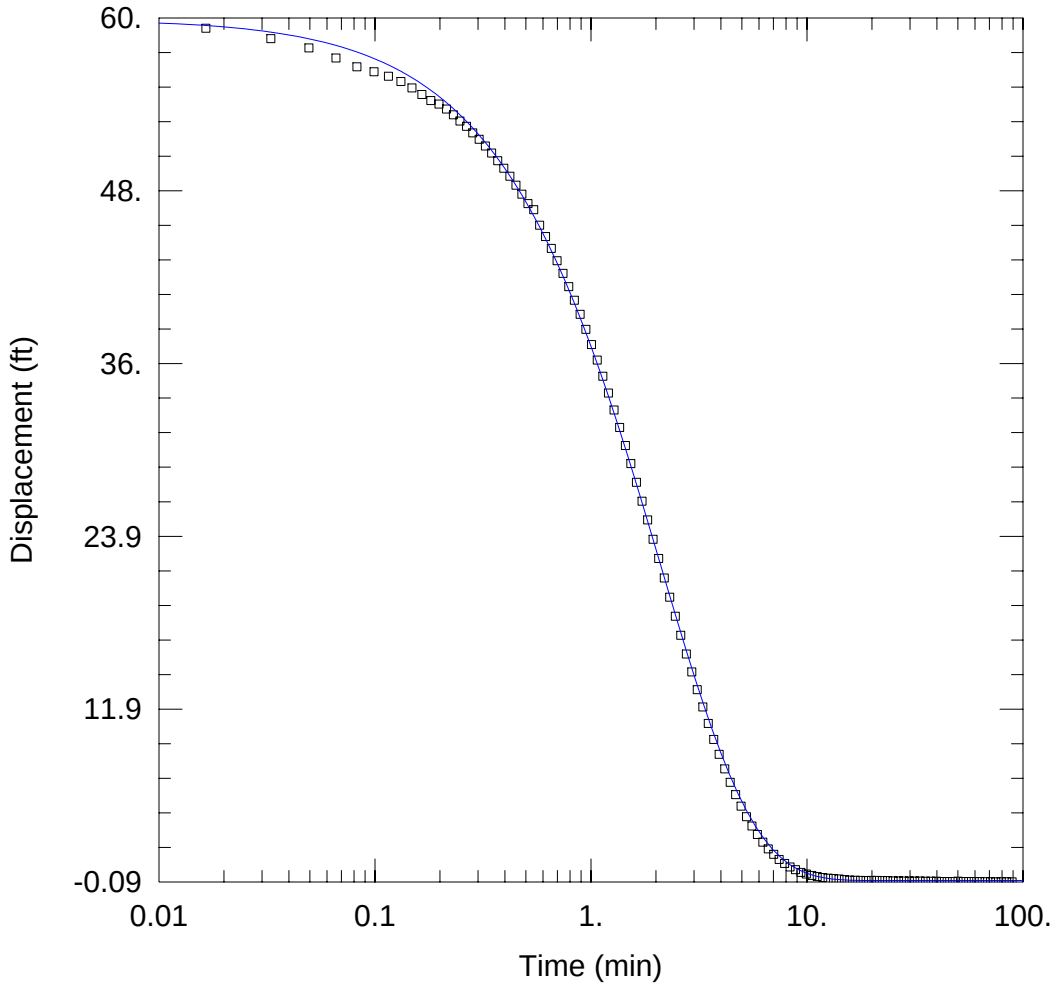
WELL DATA (Core Hole)

Initial Displacement: 60. ft
Total Well Penetration Depth: 309. ft
Casing Radius: 0.098 ft
Static Water Column Height: 1025.5 ft
Screen Length: 25. ft
Wellbore Radius: 0.125 ft

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model

Kr = 0.7 ft/day
Kz/Kr = 0.01
Ss = 1.07E-13 ft^{-1}



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\1074 to 1114 ft bls_Butler.aqt
Date: 03/09/05 Time: 13:10:59

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 04/04/01

AQUIFER DATA

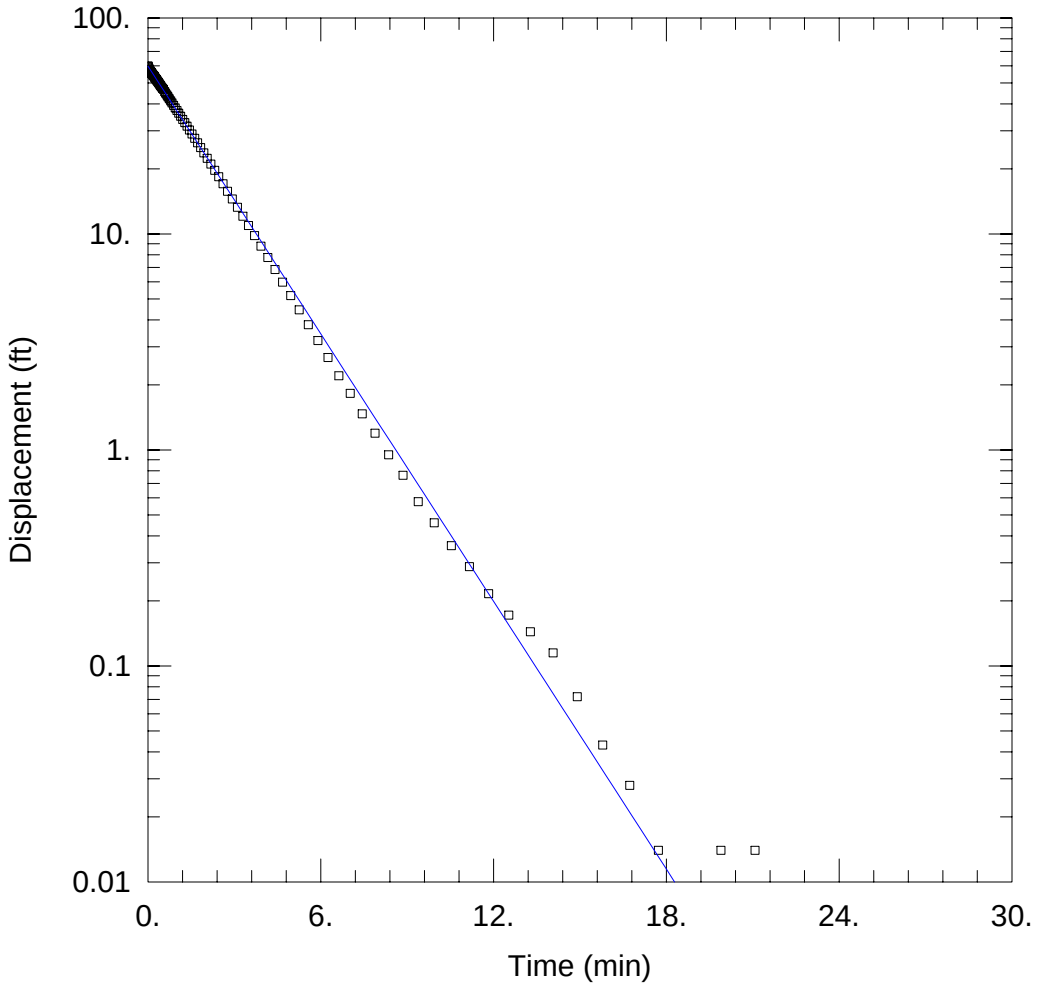
Saturated Thickness: 880. ft Anisotropy Ratio (Kz/Kr): 0.01

WELL DATA (Core Hole)

Initial Displacement: 59.8 ft
Total Well Penetration Depth: 344. ft
Casing Radius: 0.098 ft
Static Water Column Height: 1060. ft
Screen Length: 40. ft
Wellbore Radius: 0.125 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Butler
K = 0.6658 ft/day
C(D) = 10.



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\1074 to 1114 ft bls_Hvorslev.aqt
Date: 03/09/05 Time: 13:10:43

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 04/04/01

AQUIFER DATA

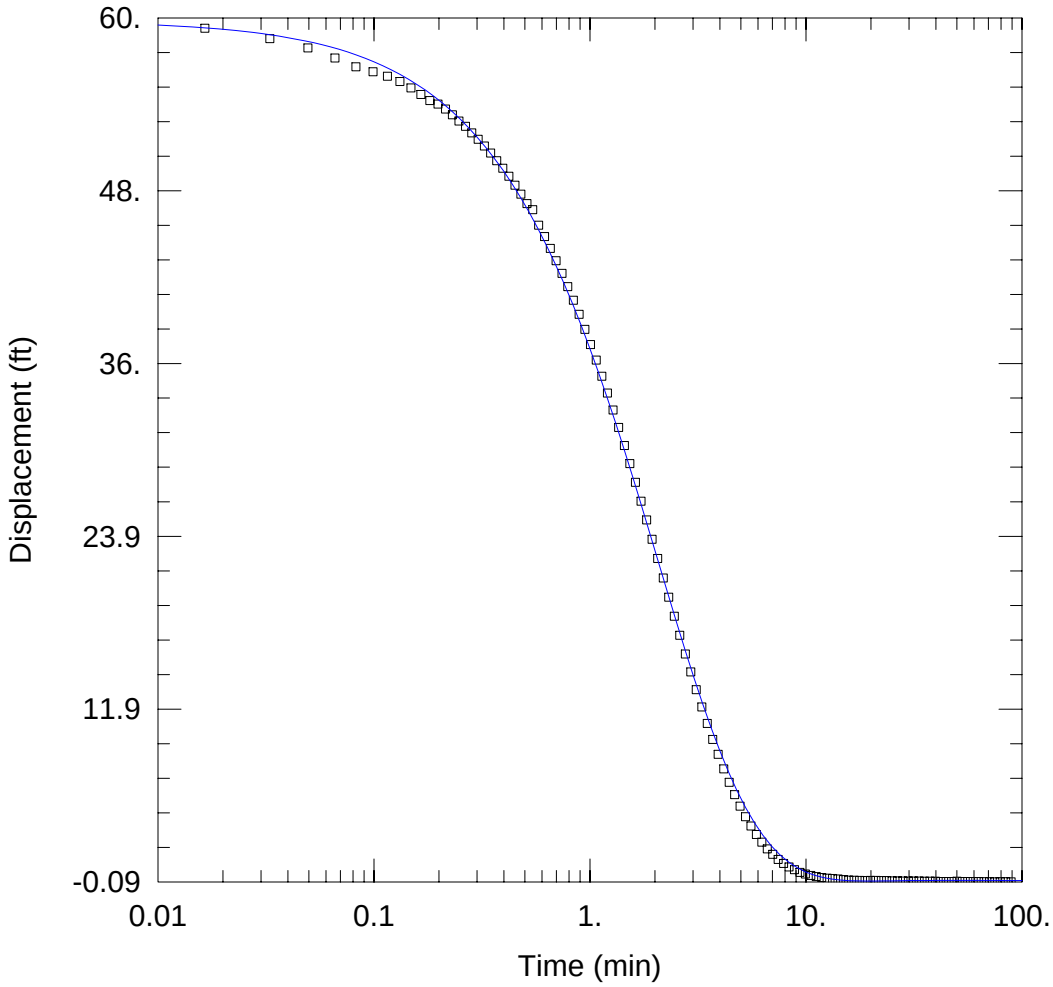
Saturated Thickness: 880. ft
Anisotropy Ratio (Kz/Kr): 0.01

WELL DATA (Core Hole)

Initial Displacement: 59.8 ft
Total Well Penetration Depth: 344. ft
Casing Radius: 0.098 ft
Static Water Column Height: 1060. ft
Screen Length: 40. ft
Wellbore Radius: 0.125 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Hvorslev
K = 0.6634 ft/day
y0 = 59.8 ft



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\1074 to 1114 ft bls_KGS.aqt
Date: 03/09/05 Time: 13:12:30

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 04/04/01

AQUIFER DATA

Saturated Thickness: 880. ft

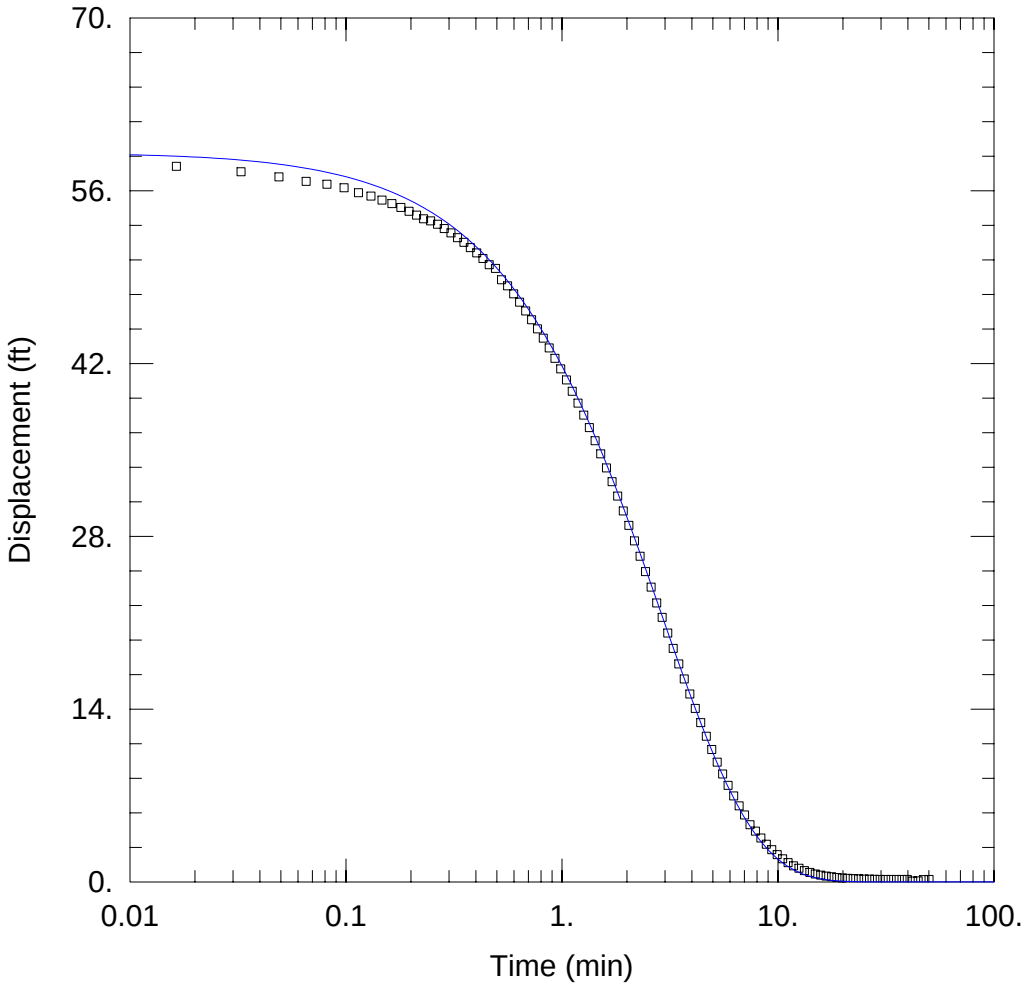
WELL DATA (Core Hole)

Initial Displacement: 59.8 ft
Total Well Penetration Depth: 344. ft
Casing Radius: 0.098 ft
Static Water Column Height: 1060. ft
Screen Length: 40. ft
Wellbore Radius: 0.125 ft

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model

Kr = 0.6477 ft/day
Kz/Kr = 0.01
Ss = 1.143E-13 ft^{-1}



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\1165 to 1209 ft bls_Butler.aqt
Date: 03/09/05 Time: 13:18:34

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 04/09/01

AQUIFER DATA

Saturated Thickness: 880. ft Anisotropy Ratio (Kz/Kr): 0.01

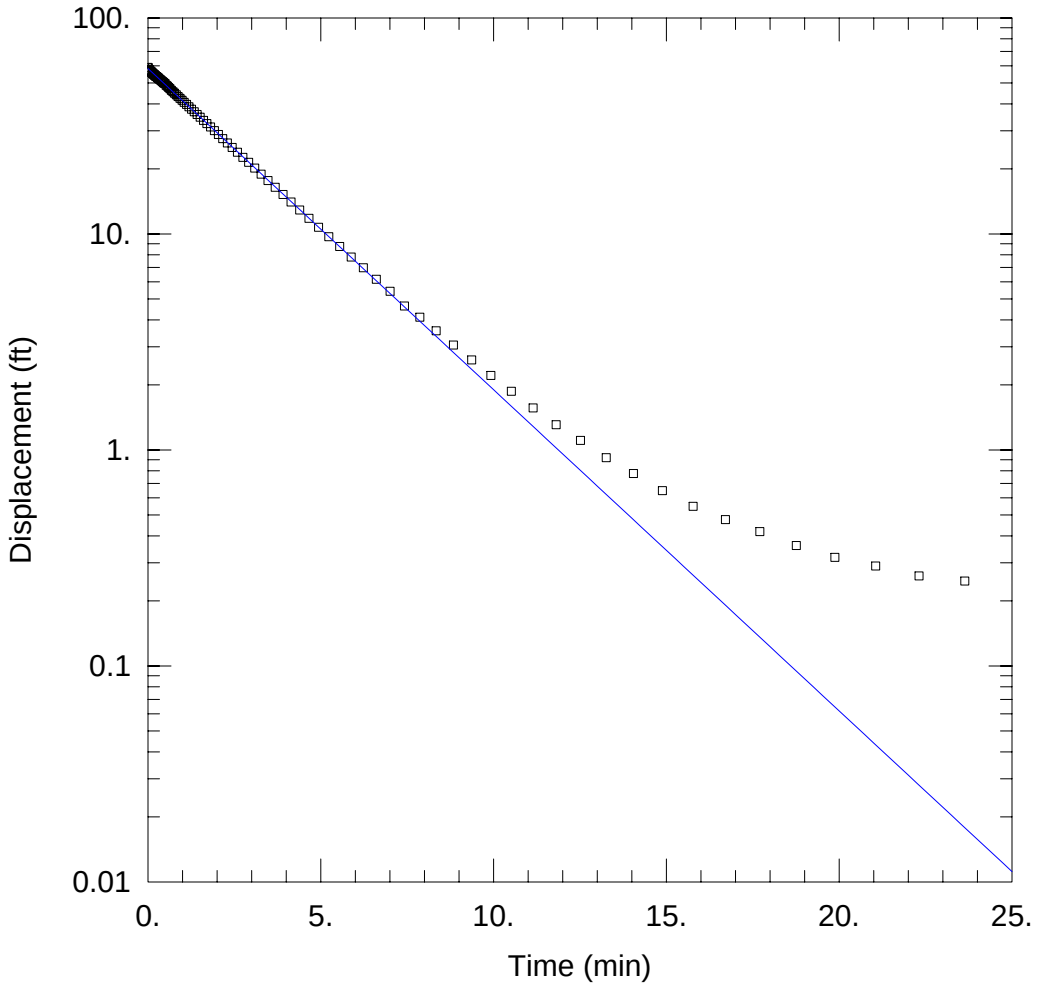
WELL DATA (Core Hole)

Initial Displacement: 59. ft
Total Well Penetration Depth: 439. ft
Casing Radius: 0.098 ft
Static Water Column Height: 1157.2 ft
Screen Length: 45. ft
Wellbore Radius: 0.125 ft

SOLUTION

Aquifer Model: Confined Solution Method: Butler

K = 0.4368 ft/day C(D) = 10.



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\1165 to 1209 ft bls_Hvorslev.aqt
Date: 03/09/05 Time: 13:16:08

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 04/09/01

AQUIFER DATA

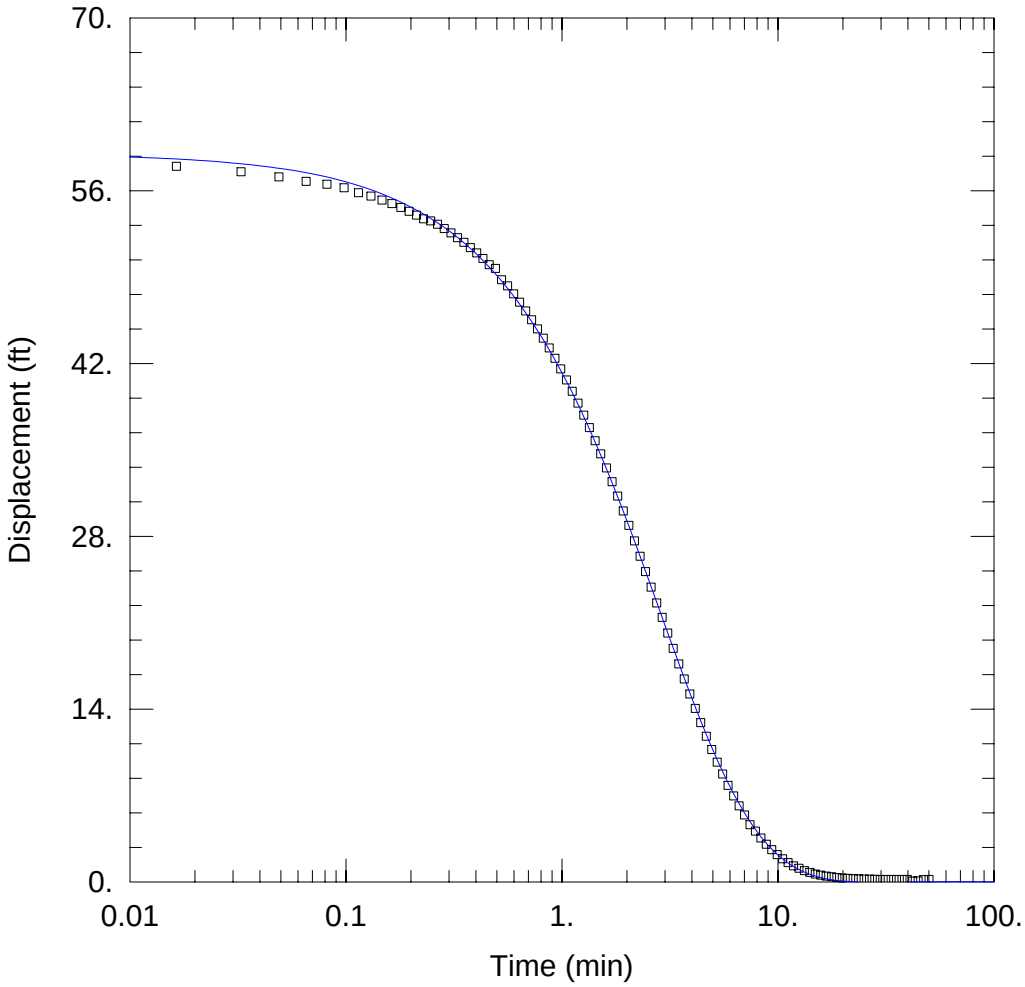
Saturated Thickness: 880. ft
Anisotropy Ratio (Kz/Kr): 0.01

WELL DATA (Core Hole)

Initial Displacement: 59. ft
Total Well Penetration Depth: 439. ft
Casing Radius: 0.098 ft
Static Water Column Height: 1157.2 ft
Screen Length: 45. ft
Wellbore Radius: 0.125 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Hvorslev
K = 0.4308 ft/day
y0 = 58.29 ft



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\1165 to 1209 ft bls_KGS.aqt
Date: 03/09/05 Time: 13:16:22

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 04/09/01

AQUIFER DATA

Saturated Thickness: 880. ft

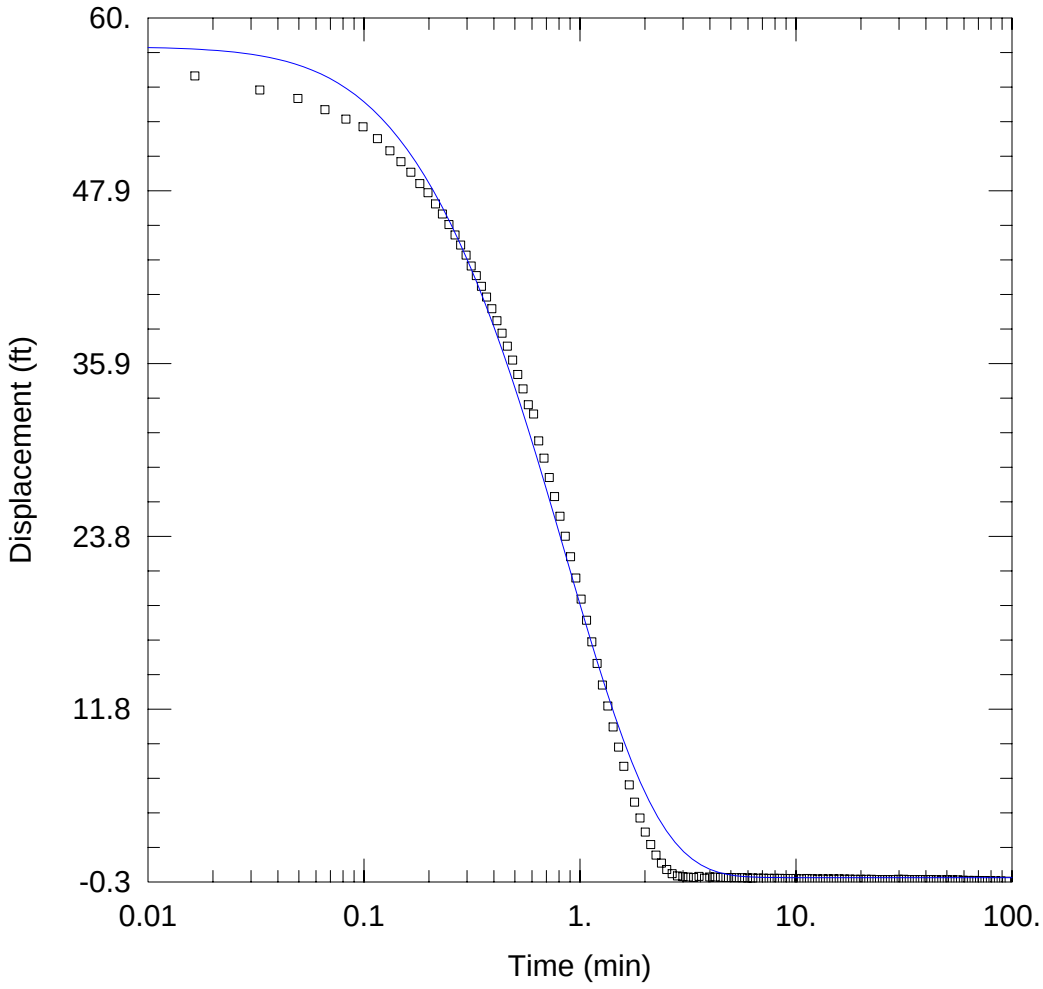
WELL DATA (Core Hole)

Initial Displacement: 59. ft
Total Well Penetration Depth: 439. ft
Casing Radius: 0.098 ft
Static Water Column Height: 1157.2 ft
Screen Length: 45. ft
Wellbore Radius: 0.125 ft

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model

Kr = 0.4103 ft/day
Kz/Kr = 0.01
Ss = 9.324E-10 ft^{-1}



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\1219 to 1244 ft bls_Butler.aqt
Date: 03/09/05 Time: 13:19:01

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 04/11/01

AQUIFER DATA

Saturated Thickness: 880. ft Anisotropy Ratio (Kz/Kr): 0.01

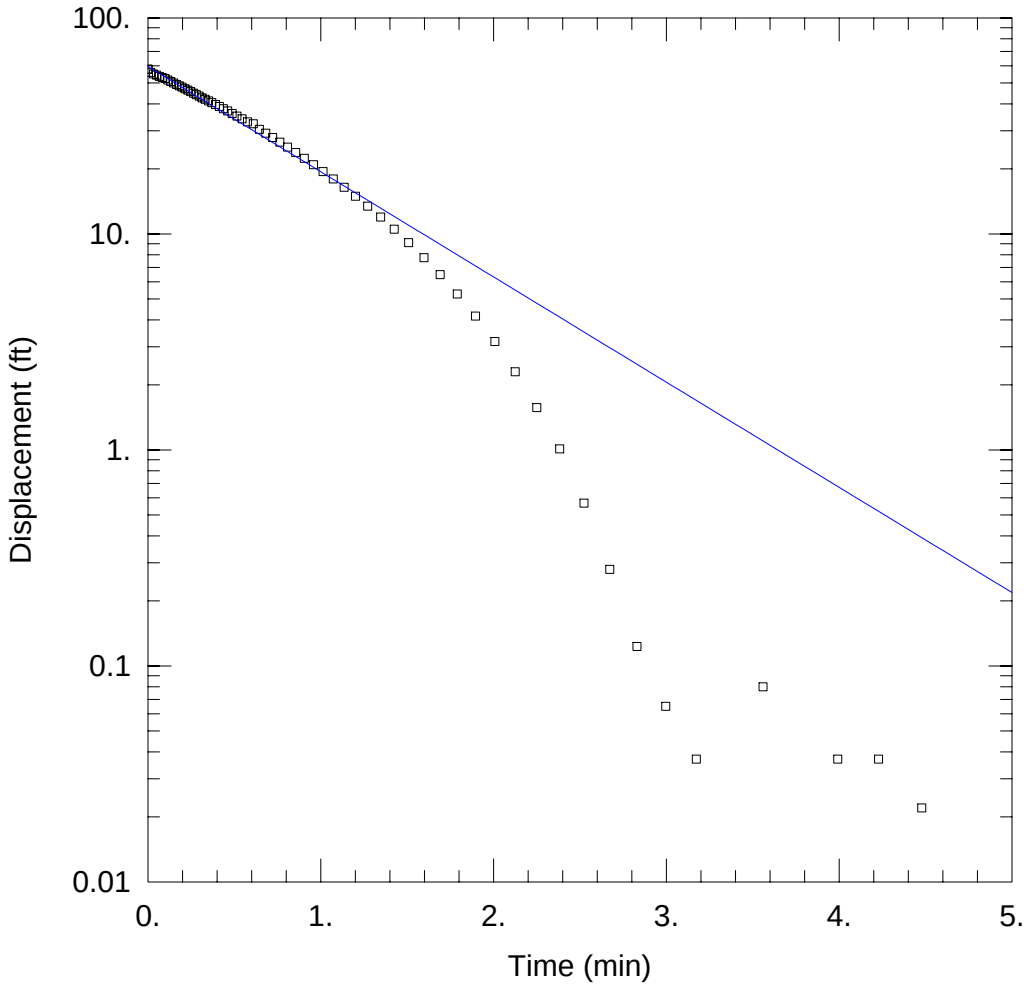
WELL DATA (Core Hole)

Initial Displacement: 58. ft
Total Well Penetration Depth: 474. ft
Casing Radius: 0.098 ft
Static Water Column Height: 1192.2 ft
Screen Length: 25. ft
Wellbore Radius: 0.125 ft

SOLUTION

Aquifer Model: Confined Solution Method: Butler

K = 2.329 ft/day C(D) = 2.285



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\1219 to 1244 ft bls_Hvorslev.aqt
Date: 03/09/05 Time: 13:22:00

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 04/11/01

AQUIFER DATA

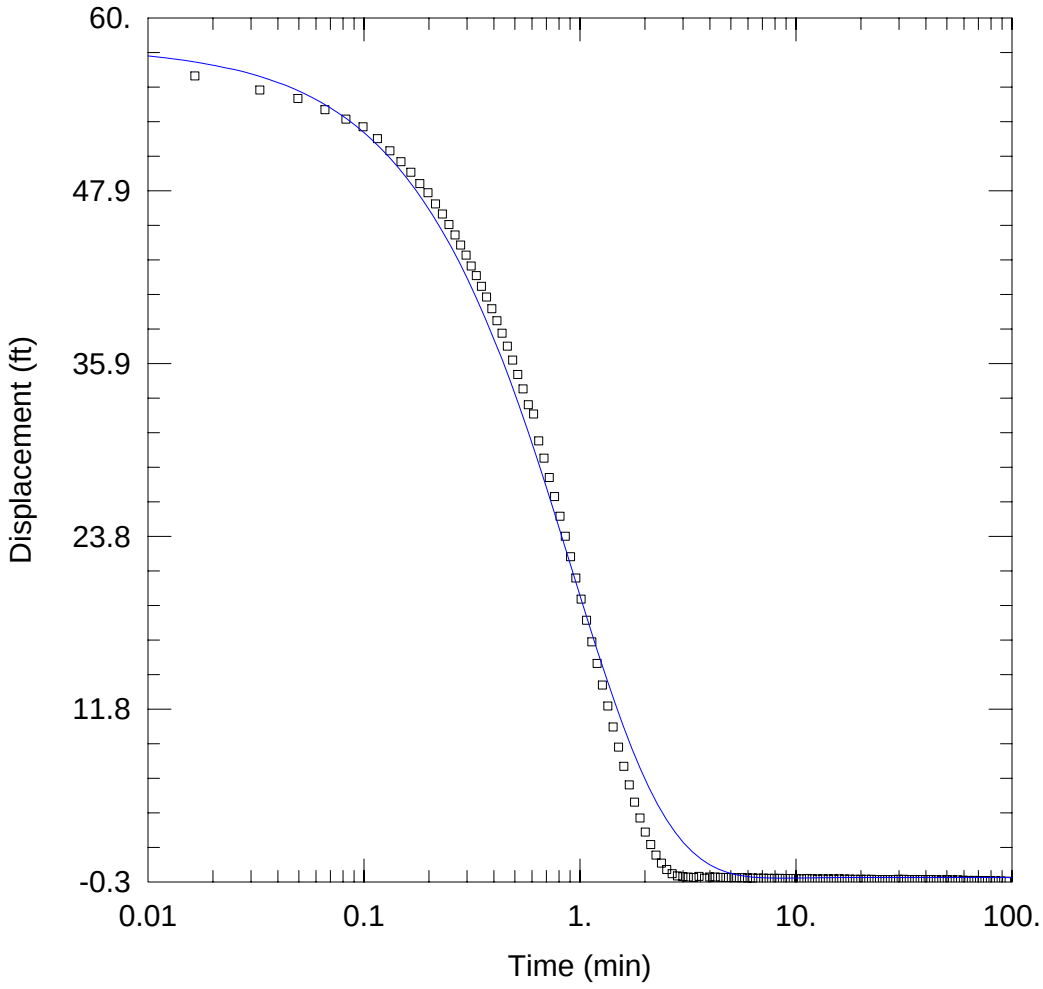
Saturated Thickness: 880. ft
Anisotropy Ratio (Kz/Kr): 0.01

WELL DATA (Core Hole)

Initial Displacement: 58. ft
Total Well Penetration Depth: 474. ft
Casing Radius: 0.098 ft
Static Water Column Height: 1192.2 ft
Screen Length: 25. ft
Wellbore Radius: 0.125 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Hvorslev
K = 2.357 ft/day
y0 = 59.52 ft



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\1219 to 1244 ft bls_KGS.aqt
Date: 03/09/05 Time: 13:22:23

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 04/11/01

AQUIFER DATA

Saturated Thickness: 880. ft

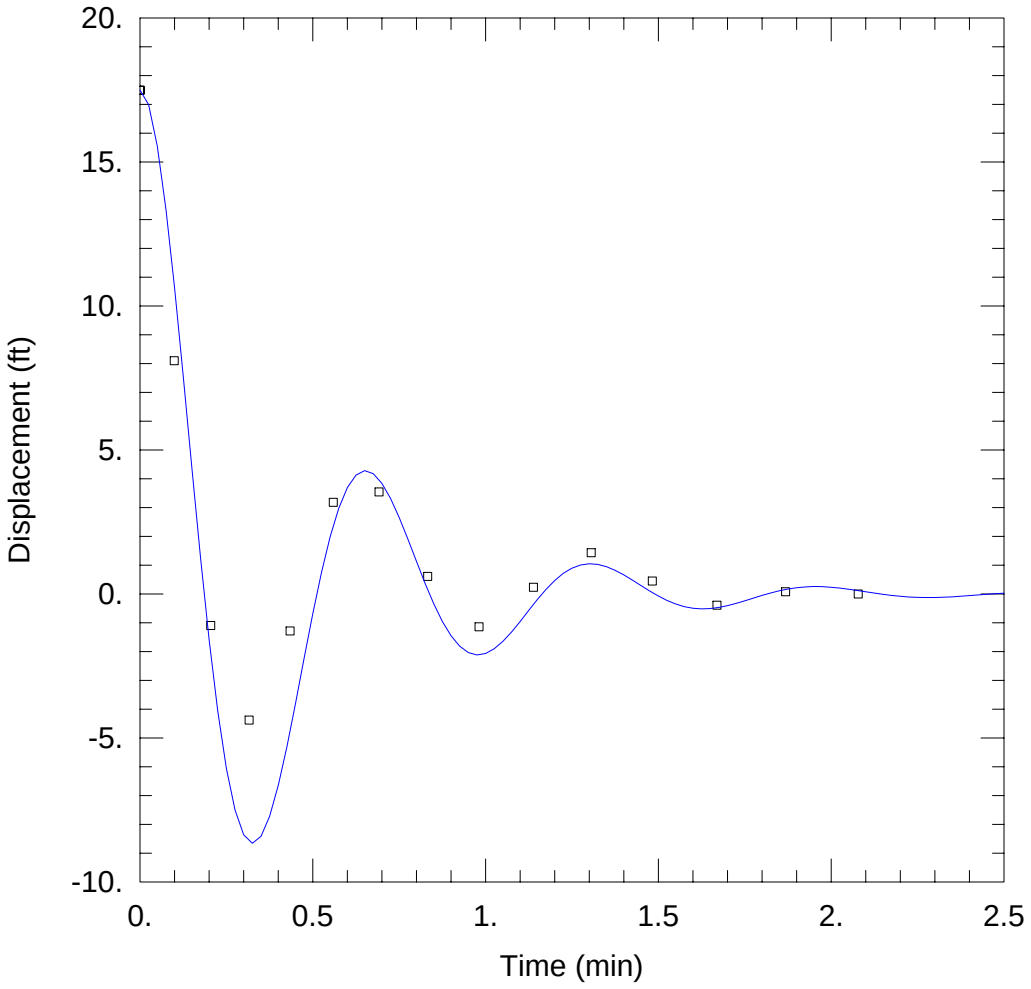
WELL DATA (Core Hole)

Initial Displacement: 58. ft
Total Well Penetration Depth: 474. ft
Casing Radius: 0.098 ft
Static Water Column Height: 1192.2 ft
Screen Length: 25. ft
Wellbore Radius: 0.125 ft

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model

Kr = 2.185 ft/day
Kz/Kr = 0.01
Ss = 1.136E-13 ft^{-1}



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\1312 to 1352 ft bls_Butler2.aqt
Date: 03/09/05 Time: 13:27:52

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 04/11/01

AQUIFER DATA

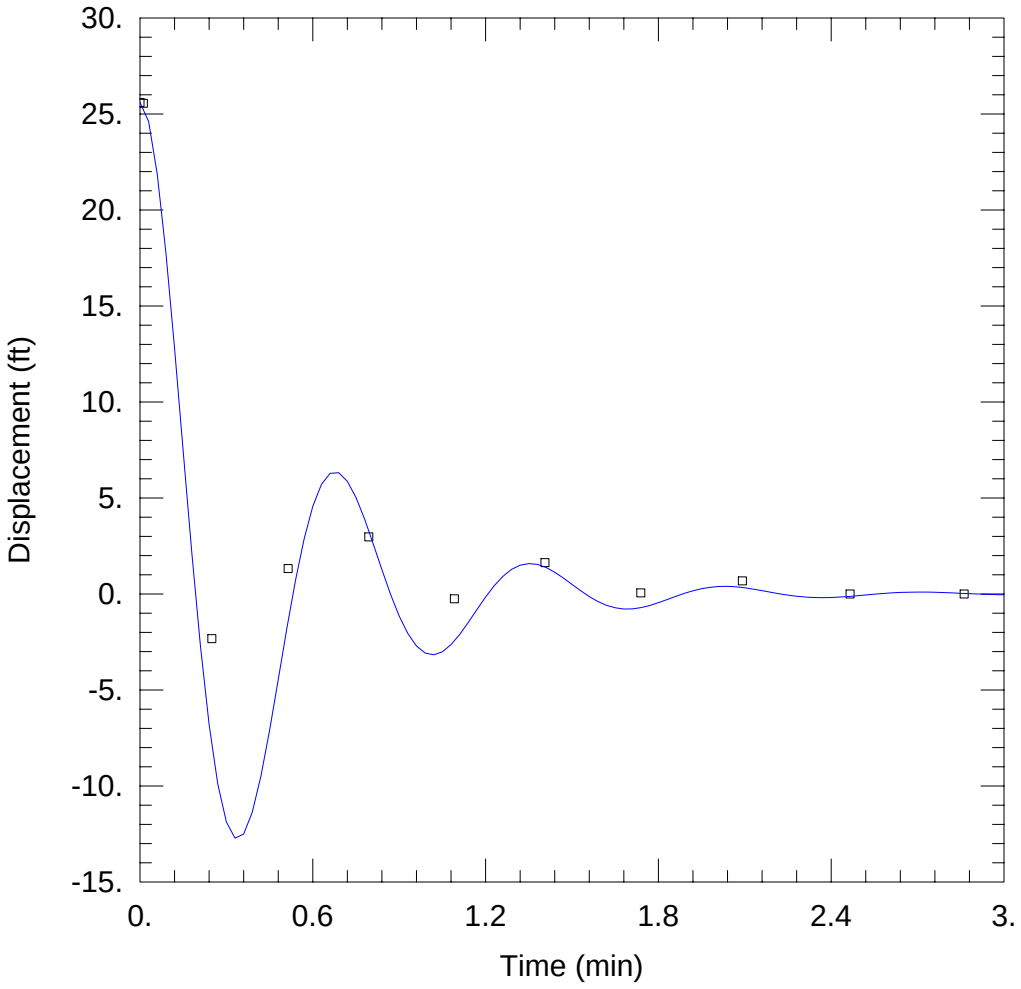
Saturated Thickness: 880. ft Anisotropy Ratio (Kz/Kr): 0.01

WELL DATA (Core Hole)

Initial Displacement: 17.5 ft
Total Well Penetration Depth: 1296. ft
Casing Radius: 0.146 ft
Static Water Column Height: 1296. ft
Screen Length: 40. ft
Wellbore Radius: 0.33 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Butler
K = 66.28 ft/day
C(D) = 0.2186



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\1380 to 1447 ft bls_Butler.aqt
Date: 03/09/05 Time: 13:25:06

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 04/11/01

AQUIFER DATA

Saturated Thickness: 880. ft Anisotropy Ratio (Kz/Kr): 0.01

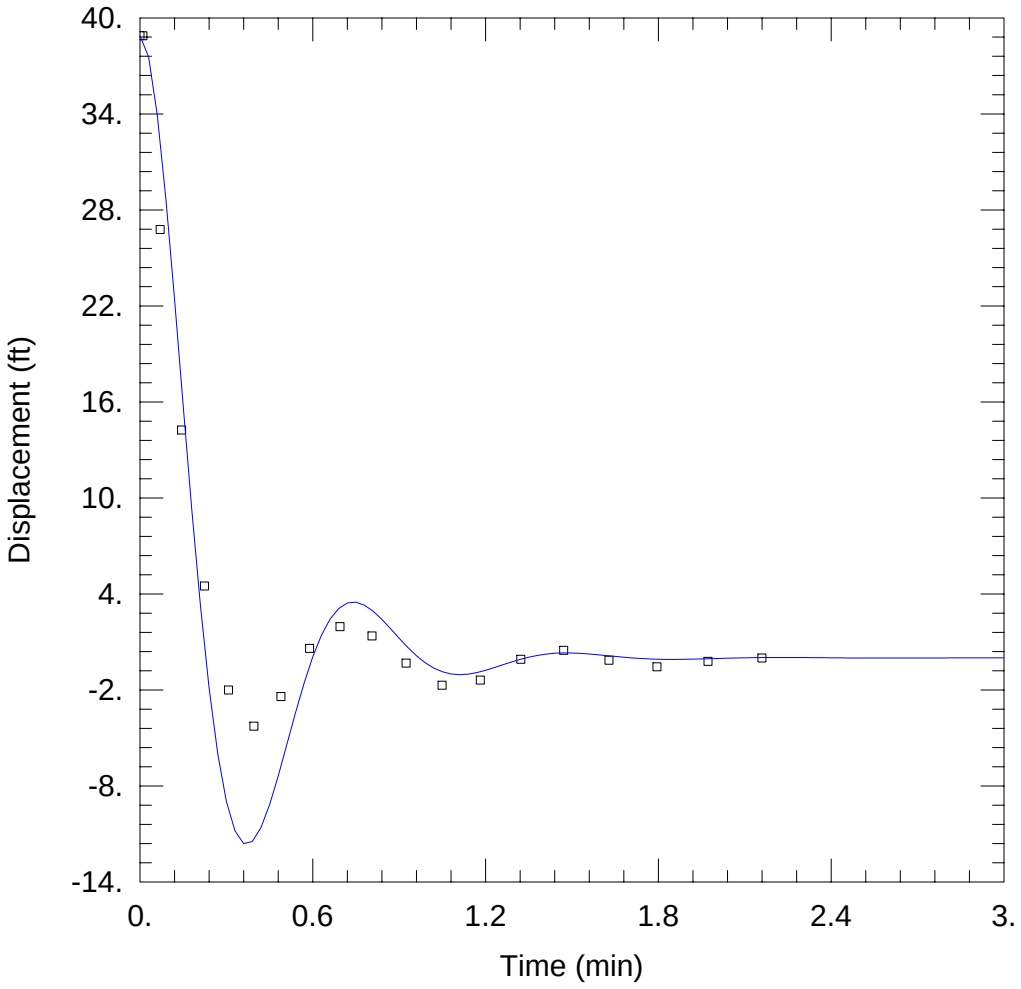
WELL DATA (Core Hole)

Initial Displacement: 25.6 ft
Total Well Penetration Depth: 1392. ft
Casing Radius: 0.146 ft
Static Water Column Height: 1392. ft
Screen Length: 67. ft
Wellbore Radius: 0.33 ft

SOLUTION

Aquifer Model: Confined Solution Method: Butler

K = 41.38 ft/day C(D) = 0.2163



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\1524 to 1550 ft bls_Butler.aqt
Date: 03/09/05 Time: 13:24:39

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 04/11/01

AQUIFER DATA

Saturated Thickness: 880. ft Anisotropy Ratio (Kz/Kr): 0.01

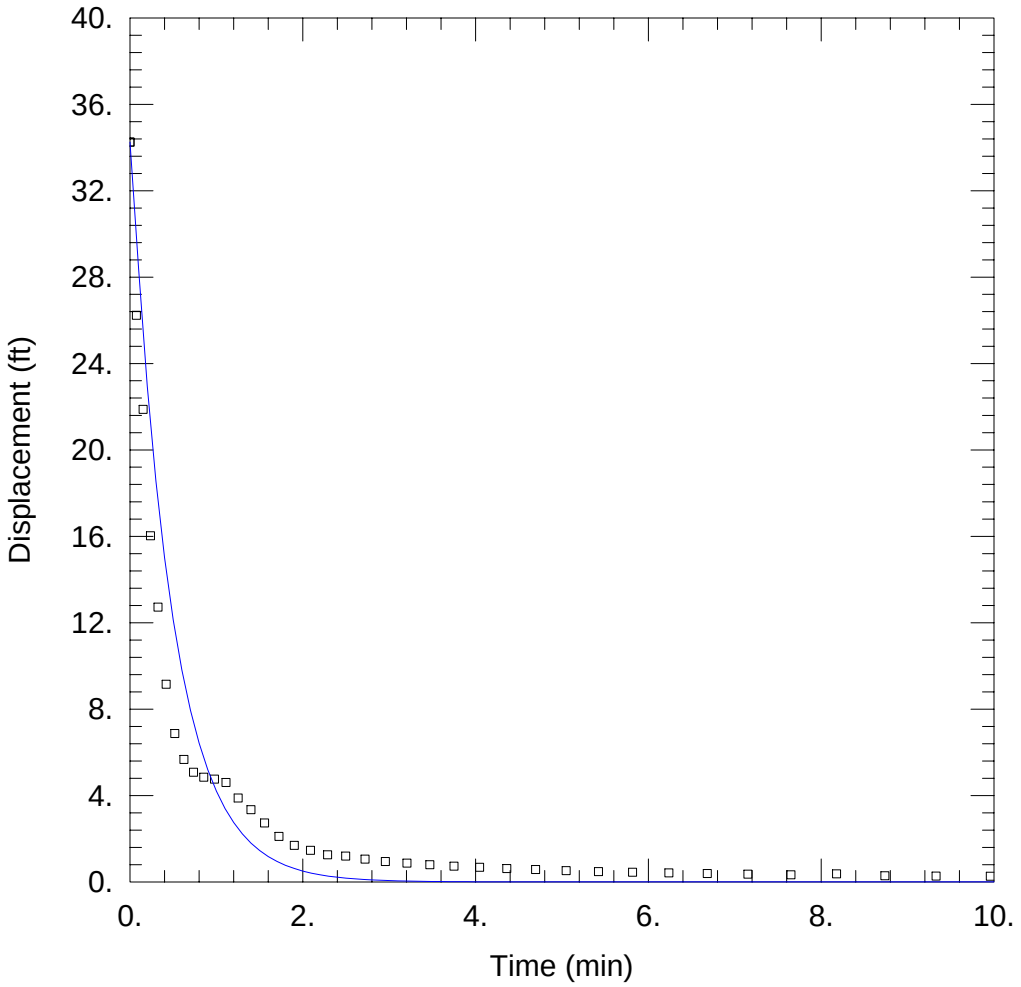
WELL DATA (Core Hole)

Initial Displacement: 38.9 ft
Total Well Penetration Depth: 1495. ft
Casing Radius: 0.146 ft
Static Water Column Height: 1495. ft
Screen Length: 26. ft
Wellbore Radius: 0.33 ft

SOLUTION

Aquifer Model: Confined Solution Method: Butler

K = 52.41 ft/day C(D) = 0.3581



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\1578 to 1650 ft bls_Butler.aqt
Date: 03/09/05 Time: 13:24:01

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 04/11/01

AQUIFER DATA

Saturated Thickness: 880. ft Anisotropy Ratio (Kz/Kr): 0.01

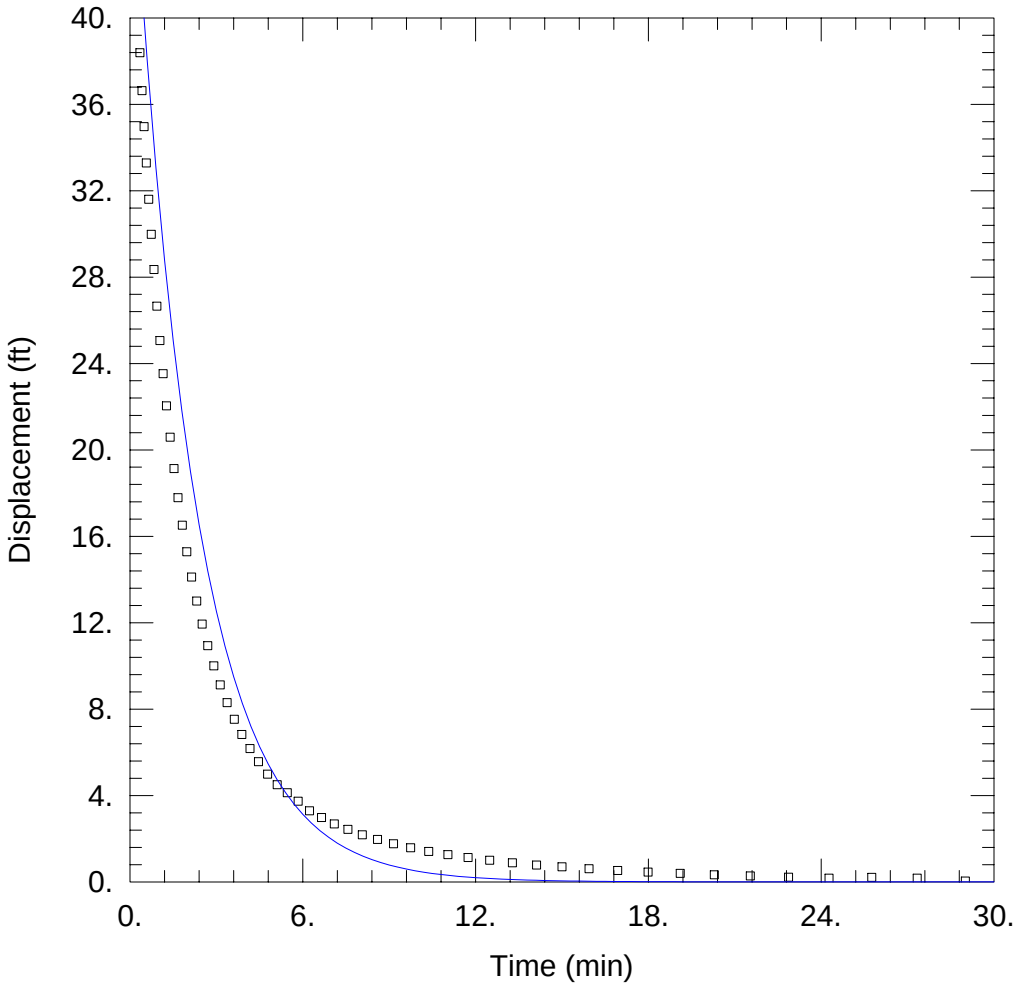
WELL DATA (Core Hole)

Initial Displacement: 34.25 ft
Total Well Penetration Depth: 1600. ft
Casing Radius: 0.146 ft
Static Water Column Height: 1600. ft
Screen Length: 72. ft
Wellbore Radius: 0.33 ft

SOLUTION

Aquifer Model: Confined Solution Method: Butler

K = 3.425 ft/day C(D) = 3.345



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\1690 to 1750 ft bls_Butler.aqt
Date: 03/09/05 Time: 13:23:45

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 04/11/01

AQUIFER DATA

Saturated Thickness: 200. ft Anisotropy Ratio (Kz/Kr): 0.01

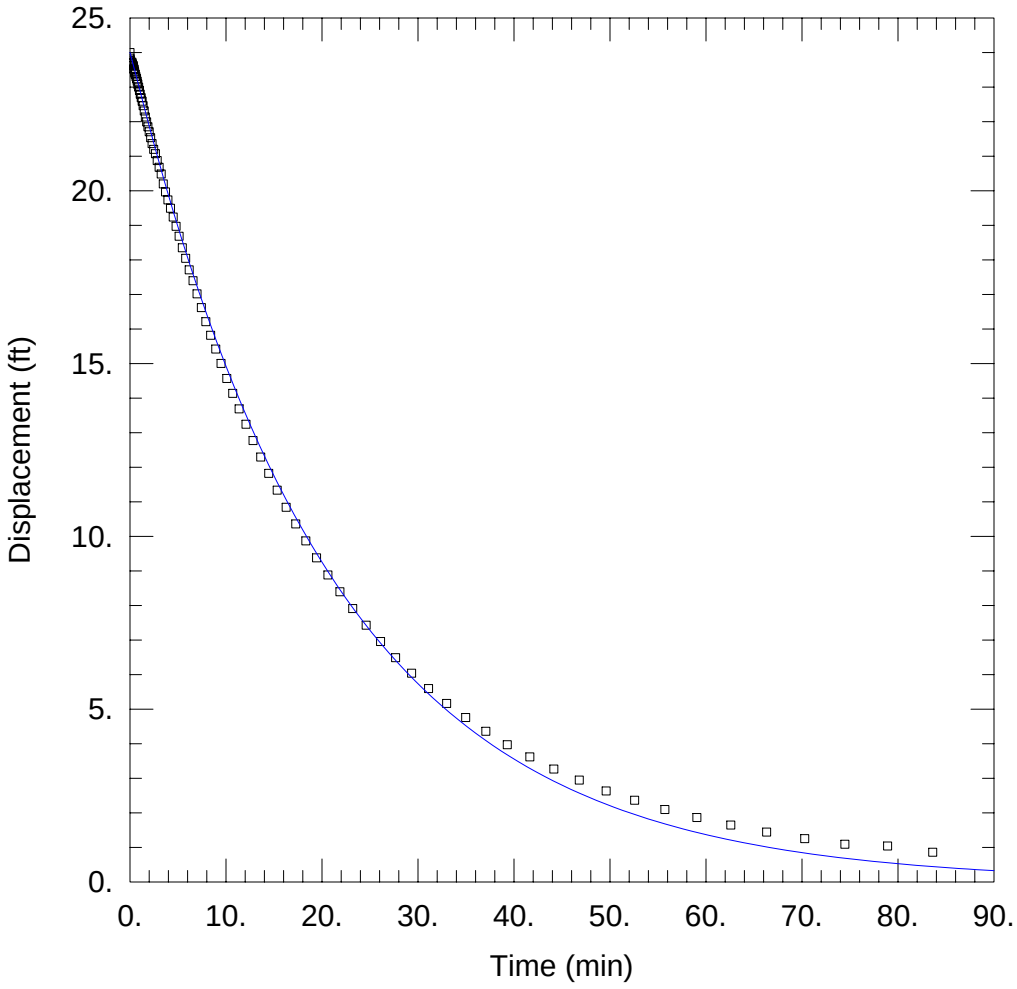
WELL DATA (Core Hole)

Initial Displacement: 50. ft
Total Well Penetration Depth: 1700. ft
Casing Radius: 0.146 ft
Static Water Column Height: 1700. ft
Screen Length: 60. ft
Wellbore Radius: 0.33 ft

SOLUTION

Aquifer Model: Confined Solution Method: Butler

K = 0.8866 ft/day C(D) = 10.



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\1775 to 1820 ft bls_Butler.aqt
Date: 03/09/05 Time: 13:23:31

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 04/11/01

AQUIFER DATA

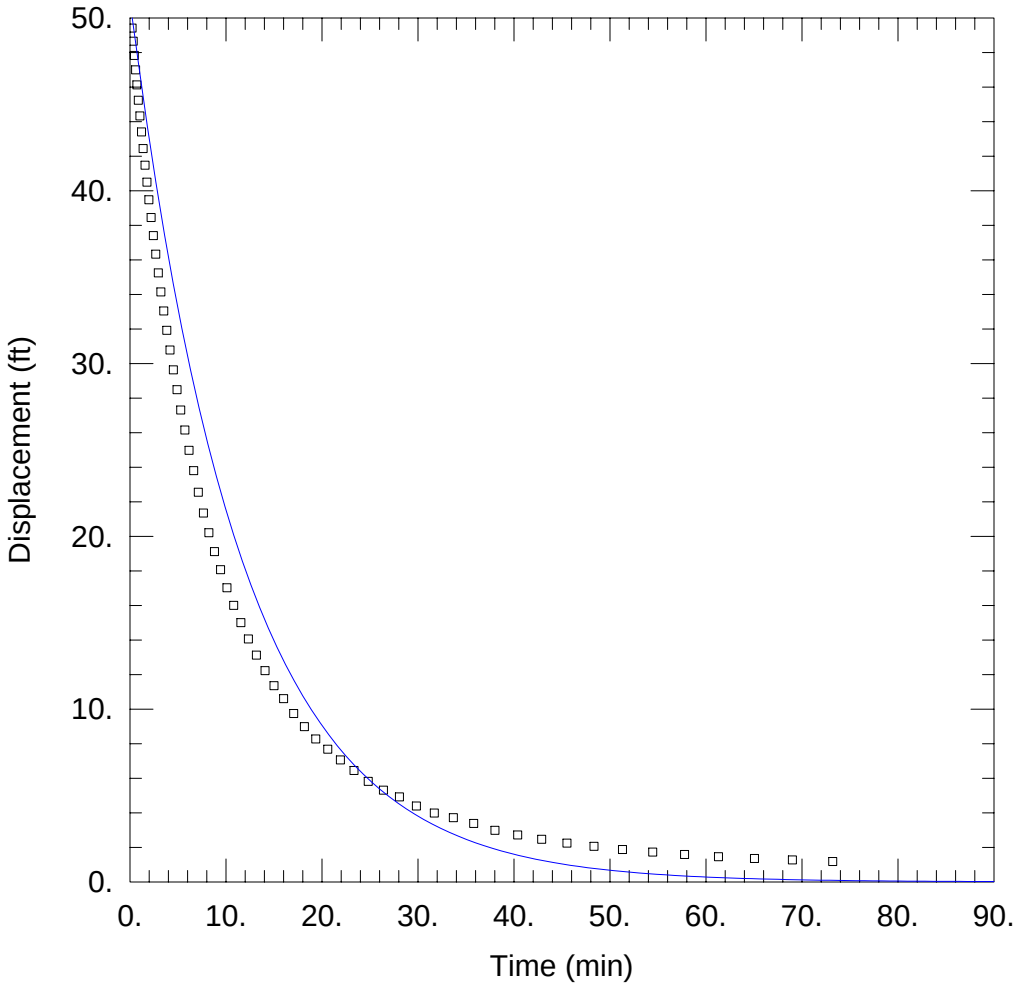
Saturated Thickness: 200. ft Anisotropy Ratio (Kz/Kr): 0.01

WELL DATA (Core Hole)

Initial Displacement: 24. ft
Total Well Penetration Depth: 1770. ft
Casing Radius: 0.146 ft
Static Water Column Height: 1770. ft
Screen Length: 45. ft
Wellbore Radius: 0.33 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Butler
K = 0.1174 ft/day
C(D) = 10.



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\slug test_jlm\1805 to 1875 ft bls_Butler.aqt
Date: 03/09/05 Time: 13:28:07

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring
Test Well: Core Hole
Test Date: 04/11/01

AQUIFER DATA

Saturated Thickness: 200. ft Anisotropy Ratio (Kz/Kr): 0.01

WELL DATA (Core Hole)

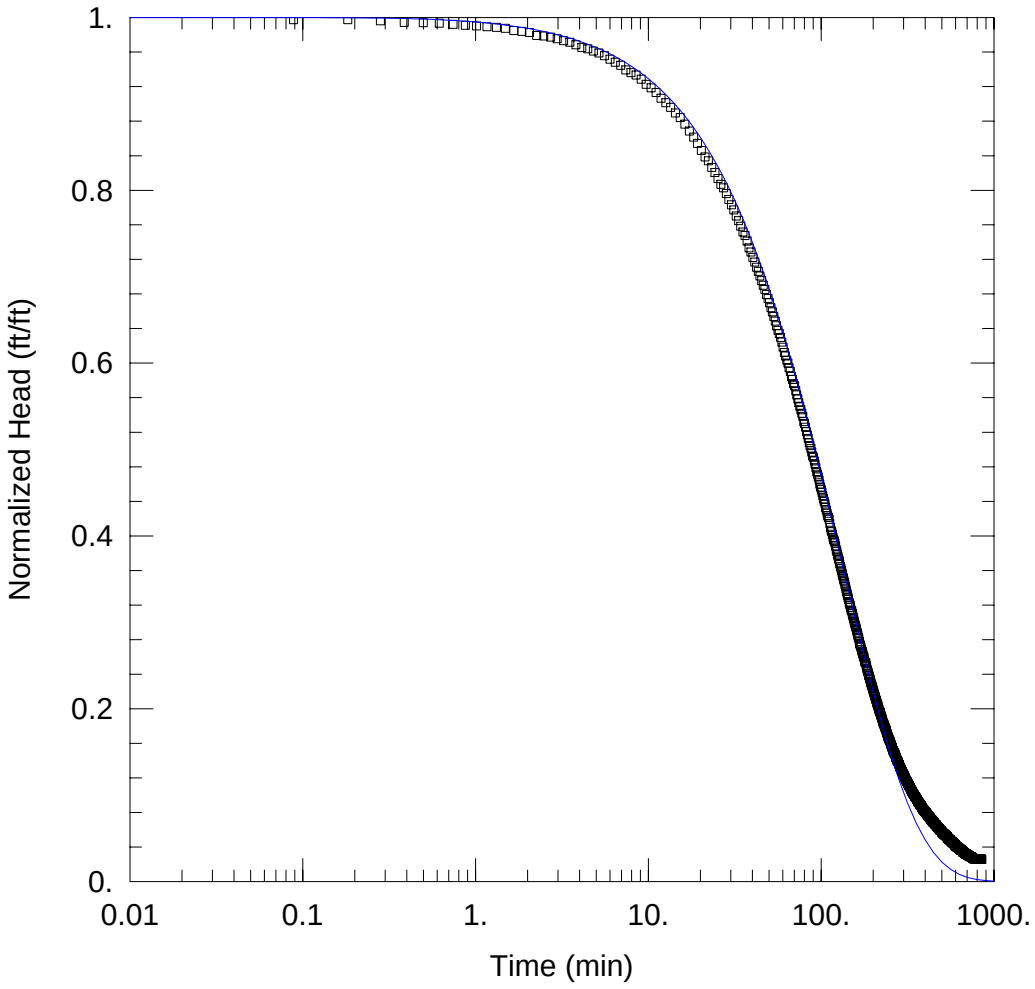
Initial Displacement: 51. ft
Total Well Penetration Depth: 1825. ft
Casing Radius: 0.146 ft
Static Water Column Height: 1825. ft
Screen Length: 70. ft
Wellbore Radius: 0.33 ft

SOLUTION

Aquifer Model: Confined Solution Method: Butler

K = 0.145 ft/day C(D) = 10.

APPENDIX D.
Raw data and Curve-Match Analysis for the Intermediate Confining Unit Slug Test



WELL TEST ANALYSIS

Data Set: D:\Jerry\Projects\ROMP_29a\APTs\IAS\slug test\slug test02222005.aqt
Date: 03/09/05 Time: 14:58:15

PROJECT INFORMATION

Company: SWFWMD
Project: R29A
Location: Sebring
Test Well: ICU Monitor
Test Date: 2/22-23/2005

AQUIFER DATA

Saturated Thickness: 270. ft Anisotropy Ratio (Kz/Kr): 0.01

WELL DATA (IAS Monitor)

Initial Displacement: 4.85 ft Static Water Column Height: 415. ft
Total Well Penetration Depth: 369. ft Screen Length: 104. ft
Casing Radius: 0.25 ft Wellbore Radius: 0.25 ft

SOLUTION

Aquifer Model: Confined Solution Method: Butler
K = 0.02732 ft/day C(D) = 10.

In-Situ Inc. Hermit 3000 Datalogger
ROMP 29A - Sebring Wellsite
Intermediate confining unit Slug Test

Reference (@ start)	0
Pressure @ Reference	18.457
Specific Gravity	1
Serial No.	7182
Linearity	0.12
Scale	19.8408
Offset	-0.0445

Date Time M/DD/YYY HH:MM	Elapse Time (minutes)	ICU Permanent Well (feet)
2/22/2005 12:53	0	4.849
2/22/2005 12:53	0.0885	4.838
2/22/2005 12:53	0.1823	4.838
2/22/2005 12:53	0.2816	4.832
2/22/2005 12:53	0.387	4.823
2/22/2005 12:53	0.4985	4.821
2/22/2005 12:53	0.6166	4.818
2/22/2005 12:53	0.7418	4.812
2/22/2005 12:54	0.8743	4.806
2/22/2005 12:54	1.0148	4.803
2/22/2005 12:54	1.1636	4.798
2/22/2005 12:54	1.3211	4.795
2/22/2005 12:54	1.488	4.789
2/22/2005 12:54	1.6648	4.777
2/22/2005 12:55	1.8521	4.772
2/22/2005 12:55	2.0505	4.766
2/22/2005 12:55	2.2606	4.749
2/22/2005 12:55	2.4833	4.746
2/22/2005 12:55	2.7191	4.74
2/22/2005 12:56	2.969	4.731
2/22/2005 12:56	3.2336	4.72
2/22/2005 12:56	3.514	4.711
2/22/2005 12:57	3.8108	4.697
2/22/2005 12:57	4.1253	4.682
2/22/2005 12:57	4.4585	4.674
2/22/2005 12:58	4.8113	4.662
2/22/2005 12:58	5.1851	4.651
2/22/2005 12:58	5.5811	4.636
2/22/2005 12:59	6.0005	4.616
2/22/2005 12:59	6.4448	4.599
2/22/2005 13:00	6.9155	4.582
2/22/2005 13:00	7.414	4.556
2/22/2005 13:01	7.942	4.541
2/22/2005 13:01	8.5013	4.527
2/22/2005 13:02	9.0938	4.504
2/22/2005 13:02	9.7213	4.475
2/22/2005 13:03	10.3861	4.455
2/22/2005 13:04	11.0903	4.429
2/22/2005 13:05	11.8361	4.397
2/22/2005 13:05	12.6261	4.372
2/22/2005 13:06	13.463	4.346
2/22/2005 13:07	14.3495	4.314

Date Time M/DD/YYY HH:MM	Elapse Time (minutes)	ICU Permanent Well (feet)
2/22/2005 13:08	15.2885	4.288
2/22/2005 13:09	16.2831	4.251
2/22/2005 13:10	17.2831	4.213
2/22/2005 13:11	18.2831	4.179
2/22/2005 13:12	19.2831	4.144
2/22/2005 13:13	20.2831	4.104
2/22/2005 13:14	21.2831	4.067
2/22/2005 13:15	22.2831	4.046
2/22/2005 13:16	23.2831	4.009
2/22/2005 13:17	24.2831	3.98
2/22/2005 13:18	25.2831	3.946
2/22/2005 13:19	26.2831	3.914
2/22/2005 13:20	27.2831	3.894
2/22/2005 13:21	28.2831	3.862
2/22/2005 13:22	29.2831	3.828
2/22/2005 13:23	30.2831	3.799
2/22/2005 13:24	31.2831	3.77
2/22/2005 13:25	32.2831	3.736
2/22/2005 13:26	33.2831	3.71
2/22/2005 13:27	34.2831	3.678
2/22/2005 13:28	35.2831	3.646
2/22/2005 13:29	36.2831	3.626
2/22/2005 13:30	37.2831	3.595
2/22/2005 13:31	38.2831	3.557
2/22/2005 13:32	39.2831	3.534
2/22/2005 13:33	40.2831	3.503
2/22/2005 13:34	41.2831	3.477
2/22/2005 13:35	42.2831	3.448
2/22/2005 13:36	43.2831	3.425
2/22/2005 13:37	44.2831	3.399
2/22/2005 13:38	45.2831	3.373
2/22/2005 13:39	46.2831	3.347
2/22/2005 13:40	47.2831	3.324
2/22/2005 13:41	48.2831	3.295
2/22/2005 13:42	49.2831	3.272
2/22/2005 13:43	50.2831	3.249
2/22/2005 13:44	51.2831	3.221
2/22/2005 13:45	52.2831	3.198
2/22/2005 13:46	53.2831	3.172
2/22/2005 13:47	54.2831	3.146
2/22/2005 13:48	55.2831	3.12
2/22/2005 13:49	56.2831	3.094
2/22/2005 13:50	57.2831	3.077
2/22/2005 13:51	58.2831	3.054
2/22/2005 13:52	59.2831	3.028
2/22/2005 13:53	60.2831	2.999
2/22/2005 13:54	61.2831	2.97
2/22/2005 13:55	62.2831	2.95
2/22/2005 13:56	63.2831	2.927
2/22/2005 13:57	64.2831	2.91
2/22/2005 13:58	65.2831	2.884
2/22/2005 13:59	66.2831	2.864
2/22/2005 14:00	67.2831	2.835
2/22/2005 14:01	68.2831	2.818

Date Time M/DD/YYY HH:MM	Elapse Time (minutes)	ICU Permanent Well (feet)
2/22/2005 14:02	69.2831	2.795
2/22/2005 14:03	70.2831	2.783
2/22/2005 14:04	71.2831	2.755
2/22/2005 14:05	72.2831	2.732
2/22/2005 14:06	73.2831	2.709
2/22/2005 14:07	74.2831	2.689
2/22/2005 14:08	75.2831	2.668
2/22/2005 14:09	76.2831	2.648
2/22/2005 14:10	77.2831	2.628
2/22/2005 14:11	78.2831	2.611
2/22/2005 14:12	79.2831	2.582
2/22/2005 14:13	80.2831	2.571
2/22/2005 14:14	81.2831	2.55
2/22/2005 14:15	82.2831	2.525
2/22/2005 14:16	83.2831	2.507
2/22/2005 14:17	84.2831	2.487
2/22/2005 14:18	85.2831	2.464
2/22/2005 14:19	86.2831	2.447
2/22/2005 14:20	87.2831	2.43
2/22/2005 14:21	88.2831	2.41
2/22/2005 14:22	89.2831	2.389
2/22/2005 14:23	90.2831	2.381
2/22/2005 14:24	91.2831	2.361
2/22/2005 14:25	92.2831	2.343
2/22/2005 14:26	93.2831	2.323
2/22/2005 14:27	94.2831	2.3
2/22/2005 14:28	95.2831	2.286
2/22/2005 14:29	96.2831	2.271
2/22/2005 14:30	97.2831	2.254
2/22/2005 14:31	98.2831	2.231
2/22/2005 14:32	99.2831	2.214
2/22/2005 14:33	100.2831	2.2
2/22/2005 14:34	101.2831	2.185
2/22/2005 14:35	102.2831	2.165
2/22/2005 14:36	103.2831	2.148
2/22/2005 14:37	104.2831	2.133
2/22/2005 14:38	105.2831	2.119
2/22/2005 14:39	106.2831	2.099
2/22/2005 14:40	107.2831	2.085
2/22/2005 14:41	108.2831	2.067
2/22/2005 14:42	109.2831	2.053
2/22/2005 14:43	110.2831	2.044
2/22/2005 14:44	111.2831	2.033
2/22/2005 14:45	112.2831	2.01
2/22/2005 14:46	113.2831	1.987
2/22/2005 14:47	114.2831	1.972
2/22/2005 14:48	115.2831	1.964
2/22/2005 14:49	116.2831	1.949
2/22/2005 14:50	117.2831	1.932
2/22/2005 14:51	118.2831	1.918
2/22/2005 14:52	119.2831	1.912
2/22/2005 14:53	120.2831	1.9
2/22/2005 14:54	121.2831	1.883
2/22/2005 14:55	122.2831	1.863

Date Time M/DD/YYY HH:MM	Elapse Time (minutes)	ICU Permanent Well (feet)
2/22/2005 14:56	123.2831	1.852
2/22/2005 14:57	124.2831	1.837
2/22/2005 14:58	125.2831	1.826
2/22/2005 14:59	126.2831	1.811
2/22/2005 15:00	127.2831	1.8
2/22/2005 15:01	128.2831	1.783
2/22/2005 15:02	129.2831	1.768
2/22/2005 15:03	130.2831	1.757
2/22/2005 15:04	131.2831	1.745
2/22/2005 15:05	132.2831	1.731
2/22/2005 15:06	133.2831	1.719
2/22/2005 15:07	134.2831	1.705
2/22/2005 15:08	135.2831	1.693
2/22/2005 15:09	136.2831	1.682
2/22/2005 15:10	137.2831	1.668
2/22/2005 15:11	138.2831	1.656
2/22/2005 15:12	139.2831	1.642
2/22/2005 15:13	140.2831	1.63
2/22/2005 15:14	141.2831	1.616
2/22/2005 15:15	142.2831	1.607
2/22/2005 15:16	143.2831	1.593
2/22/2005 15:17	144.2831	1.584
2/22/2005 15:18	145.2831	1.567
2/22/2005 15:19	146.2831	1.558
2/22/2005 15:20	147.2831	1.55
2/22/2005 15:21	148.2831	1.538
2/22/2005 15:22	149.2831	1.524
2/22/2005 15:23	150.2831	1.518
2/22/2005 15:24	151.2831	1.506
2/22/2005 15:25	152.2831	1.495
2/22/2005 15:26	153.2831	1.483
2/22/2005 15:27	154.2831	1.475
2/22/2005 15:28	155.2831	1.463
2/22/2005 15:29	156.2831	1.452
2/22/2005 15:30	157.2831	1.44
2/22/2005 15:31	158.2831	1.432
2/22/2005 15:32	159.2831	1.423
2/22/2005 15:33	160.2831	1.412
2/22/2005 15:34	161.2831	1.4
2/22/2005 15:35	162.2831	1.391
2/22/2005 15:36	163.2831	1.383
2/22/2005 15:37	164.2831	1.371
2/22/2005 15:38	165.2831	1.366
2/22/2005 15:39	166.2831	1.348
2/22/2005 15:40	167.2831	1.334
2/22/2005 15:41	168.2831	1.328
2/22/2005 15:42	169.2831	1.322
2/22/2005 15:43	170.2831	1.314
2/22/2005 15:44	171.2831	1.302
2/22/2005 15:45	172.2831	1.294
2/22/2005 15:46	173.2831	1.288
2/22/2005 15:47	174.2831	1.279
2/22/2005 15:48	175.2831	1.268
2/22/2005 15:49	176.2831	1.262

Date Time M/DD/YYY HH:MM	Elapse Time (minutes)	ICU Permanent Well (feet)
2/22/2005 15:50	177.2831	1.256
2/22/2005 15:51	178.2831	1.242
2/22/2005 15:52	179.2831	1.233
2/22/2005 15:53	180.2831	1.228
2/22/2005 15:54	181.2831	1.228
2/22/2005 15:55	182.2831	1.213
2/22/2005 15:56	183.2831	1.205
2/22/2005 15:57	184.2831	1.193
2/22/2005 15:58	185.2831	1.184
2/22/2005 15:59	186.2831	1.179
2/22/2005 16:00	187.2831	1.17
2/22/2005 16:01	188.2831	1.159
2/22/2005 16:02	189.2831	1.156
2/22/2005 16:03	190.2831	1.147
2/22/2005 16:04	191.2831	1.138
2/22/2005 16:05	192.2831	1.133
2/22/2005 16:06	193.2831	1.121
2/22/2005 16:07	194.2831	1.115
2/22/2005 16:08	195.2831	1.107
2/22/2005 16:09	196.2831	1.101
2/22/2005 16:10	197.2831	1.095
2/22/2005 16:11	198.2831	1.087
2/22/2005 16:12	199.2831	1.081
2/22/2005 16:13	200.2831	1.072
2/22/2005 16:14	201.2831	1.067
2/22/2005 16:15	202.2831	1.058
2/22/2005 16:16	203.2831	1.049
2/22/2005 16:17	204.2831	1.044
2/22/2005 16:18	205.2831	1.038
2/22/2005 16:19	206.2831	1.029
2/22/2005 16:20	207.2831	1.023
2/22/2005 16:21	208.2831	1.018
2/22/2005 16:22	209.2831	1.012
2/22/2005 16:23	210.2831	1.003
2/22/2005 16:24	211.2831	0.998
2/22/2005 16:25	212.2831	0.992
2/22/2005 16:26	213.2831	0.986
2/22/2005 16:27	214.2831	0.975
2/22/2005 16:28	215.2831	0.972
2/22/2005 16:29	216.2831	0.966
2/22/2005 16:30	217.2831	0.957
2/22/2005 16:31	218.2831	0.954
2/22/2005 16:32	219.2831	0.949
2/22/2005 16:33	220.2831	0.946
2/22/2005 16:34	221.2831	0.937
2/22/2005 16:35	222.2831	0.931
2/22/2005 16:36	223.2831	0.923
2/22/2005 16:37	224.2831	0.92
2/22/2005 16:38	225.2831	0.914
2/22/2005 16:39	226.2831	0.908
2/22/2005 16:40	227.2831	0.9
2/22/2005 16:41	228.2831	0.891
2/22/2005 16:42	229.2831	0.888
2/22/2005 16:43	230.2831	0.885

Date Time M/DD/YYY HH:MM	Elapse Time (minutes)	ICU Permanent Well (feet)
2/22/2005 16:44	231.2831	0.88
2/22/2005 16:45	232.2831	0.874
2/22/2005 16:46	233.2831	0.868
2/22/2005 16:47	234.2831	0.865
2/22/2005 16:48	235.2831	0.86
2/22/2005 16:49	236.2831	0.857
2/22/2005 16:50	237.2831	0.851
2/22/2005 16:51	238.2831	0.845
2/22/2005 16:52	239.2831	0.837
2/22/2005 16:53	240.2831	0.831
2/22/2005 16:54	241.2831	0.828
2/22/2005 16:55	242.2831	0.822
2/22/2005 16:56	243.2831	0.816
2/22/2005 16:57	244.2831	0.811
2/22/2005 16:58	245.2831	0.805
2/22/2005 16:59	246.2831	0.802
2/22/2005 17:00	247.2831	0.799
2/22/2005 17:01	248.2831	0.793
2/22/2005 17:02	249.2831	0.791
2/22/2005 17:03	250.2831	0.788
2/22/2005 17:04	251.2831	0.782
2/22/2005 17:05	252.2831	0.779
2/22/2005 17:06	253.2831	0.77
2/22/2005 17:07	254.2831	0.768
2/22/2005 17:08	255.2831	0.762
2/22/2005 17:09	256.2831	0.756
2/22/2005 17:10	257.2831	0.753
2/22/2005 17:11	258.2831	0.75
2/22/2005 17:12	259.2831	0.745
2/22/2005 17:13	260.2831	0.736
2/22/2005 17:14	261.2831	0.733
2/22/2005 17:15	262.2831	0.733
2/22/2005 17:16	263.2831	0.727
2/22/2005 17:17	264.2831	0.724
2/22/2005 17:18	265.2831	0.722
2/22/2005 17:19	266.2831	0.719
2/22/2005 17:20	267.2831	0.716
2/22/2005 17:21	268.2831	0.71
2/22/2005 17:22	269.2831	0.701
2/22/2005 17:23	270.2831	0.696
2/22/2005 17:24	271.2831	0.699
2/22/2005 17:25	272.2831	0.693
2/22/2005 17:26	273.2831	0.69
2/22/2005 17:27	274.2831	0.687
2/22/2005 17:28	275.2831	0.678
2/22/2005 17:29	276.2831	0.676
2/22/2005 17:30	277.2831	0.676
2/22/2005 17:31	278.2831	0.673
2/22/2005 17:32	279.2831	0.67
2/22/2005 17:33	280.2831	0.664
2/22/2005 17:34	281.2831	0.661
2/22/2005 17:35	282.2831	0.658
2/22/2005 17:36	283.2831	0.655
2/22/2005 17:37	284.2831	0.65

Date Time M/DD/YYY HH:MM	Elapse Time (minutes)	ICU Permanent Well (feet)
2/22/2005 17:38	285.2831	0.647
2/22/2005 17:39	286.2831	0.641
2/22/2005 17:40	287.2831	0.638
2/22/2005 17:41	288.2831	0.638
2/22/2005 17:42	289.2831	0.632
2/22/2005 17:43	290.2831	0.63
2/22/2005 17:44	291.2831	0.624
2/22/2005 17:45	292.2831	0.624
2/22/2005 17:46	293.2831	0.618
2/22/2005 17:47	294.2831	0.615
2/22/2005 17:48	295.2831	0.615
2/22/2005 17:49	296.2831	0.612
2/22/2005 17:50	297.2831	0.607
2/22/2005 17:51	298.2831	0.604
2/22/2005 17:52	299.2831	0.601
2/22/2005 17:53	300.2831	0.601
2/22/2005 17:54	301.2831	0.595
2/22/2005 17:55	302.2831	0.595
2/22/2005 17:56	303.2831	0.592
2/22/2005 17:57	304.2831	0.589
2/22/2005 17:58	305.2831	0.584
2/22/2005 17:59	306.2831	0.581
2/22/2005 18:00	307.2831	0.581
2/22/2005 18:01	308.2831	0.572
2/22/2005 18:02	309.2831	0.572
2/22/2005 18:03	310.2831	0.569
2/22/2005 18:04	311.2831	0.566
2/22/2005 18:05	312.2831	0.563
2/22/2005 18:06	313.2831	0.561
2/22/2005 18:07	314.2831	0.561
2/22/2005 18:08	315.2831	0.558
2/22/2005 18:09	316.2831	0.555
2/22/2005 18:10	317.2831	0.552
2/22/2005 18:11	318.2831	0.549
2/22/2005 18:12	319.2831	0.546
2/22/2005 18:13	320.2831	0.543
2/22/2005 18:14	321.2831	0.543
2/22/2005 18:15	322.2831	0.54
2/22/2005 18:16	323.2831	0.538
2/22/2005 18:17	324.2831	0.535
2/22/2005 18:18	325.2831	0.532
2/22/2005 18:19	326.2831	0.532
2/22/2005 18:20	327.2831	0.529
2/22/2005 18:21	328.2831	0.526
2/22/2005 18:22	329.2831	0.523
2/22/2005 18:23	330.2831	0.52
2/22/2005 18:24	331.2831	0.517
2/22/2005 18:25	332.2831	0.515
2/22/2005 18:26	333.2831	0.509
2/22/2005 18:27	334.2831	0.509
2/22/2005 18:28	335.2831	0.509
2/22/2005 18:29	336.2831	0.503
2/22/2005 18:30	337.2831	0.503
2/22/2005 18:31	338.2831	0.5

Date Time M/DD/YYY HH:MM	Elapse Time (minutes)	ICU Permanent Well (feet)
2/22/2005 18:32	339.2831	0.497
2/22/2005 18:33	340.2831	0.494
2/22/2005 18:34	341.2831	0.494
2/22/2005 18:35	342.2831	0.492
2/22/2005 18:36	343.2831	0.489
2/22/2005 18:37	344.2831	0.489
2/22/2005 18:38	345.2831	0.486
2/22/2005 18:39	346.2831	0.483
2/22/2005 18:40	347.2831	0.483
2/22/2005 18:41	348.2831	0.48
2/22/2005 18:42	349.2831	0.477
2/22/2005 18:43	350.2831	0.477
2/22/2005 18:44	351.2831	0.474
2/22/2005 18:45	352.2831	0.471
2/22/2005 18:46	353.2831	0.471
2/22/2005 18:47	354.2831	0.469
2/22/2005 18:48	355.2831	0.469
2/22/2005 18:49	356.2831	0.466
2/22/2005 18:50	357.2831	0.463
2/22/2005 18:51	358.2831	0.463
2/22/2005 18:52	359.2831	0.46
2/22/2005 18:53	360.2831	0.46
2/22/2005 18:54	361.2831	0.457
2/22/2005 18:55	362.2831	0.451
2/22/2005 18:56	363.2831	0.448
2/22/2005 18:57	364.2831	0.448
2/22/2005 18:58	365.2831	0.443
2/22/2005 18:59	366.2831	0.446
2/22/2005 19:00	367.2831	0.443
2/22/2005 19:01	368.2831	0.443
2/22/2005 19:02	369.2831	0.44
2/22/2005 19:03	370.2831	0.437
2/22/2005 19:04	371.2831	0.437
2/22/2005 19:05	372.2831	0.434
2/22/2005 19:06	373.2831	0.434
2/22/2005 19:07	374.2831	0.431
2/22/2005 19:08	375.2831	0.431
2/22/2005 19:09	376.2831	0.428
2/22/2005 19:10	377.2831	0.428
2/22/2005 19:11	378.2831	0.425
2/22/2005 19:12	379.2831	0.425
2/22/2005 19:13	380.2831	0.423
2/22/2005 19:14	381.2831	0.42
2/22/2005 19:15	382.2831	0.417
2/22/2005 19:16	383.2831	0.417
2/22/2005 19:17	384.2831	0.417
2/22/2005 19:18	385.2831	0.411
2/22/2005 19:19	386.2831	0.408
2/22/2005 19:20	387.2831	0.408
2/22/2005 19:21	388.2831	0.408
2/22/2005 19:22	389.2831	0.405
2/22/2005 19:23	390.2831	0.405
2/22/2005 19:24	391.2831	0.402
2/22/2005 19:25	392.2831	0.402

Date Time M/DD/YYY HH:MM	Elapse Time (minutes)	ICU Permanent Well (feet)
2/22/2005 19:26	393.2831	0.402
2/22/2005 19:27	394.2831	0.4
2/22/2005 19:28	395.2831	0.397
2/22/2005 19:29	396.2831	0.397
2/22/2005 19:30	397.2831	0.397
2/22/2005 19:31	398.2831	0.394
2/22/2005 19:32	399.2831	0.394
2/22/2005 19:33	400.2831	0.391
2/22/2005 19:34	401.2831	0.391
2/22/2005 19:35	402.2831	0.388
2/22/2005 19:36	403.2831	0.388
2/22/2005 19:37	404.2831	0.385
2/22/2005 19:38	405.2831	0.385
2/22/2005 19:39	406.2831	0.385
2/22/2005 19:40	407.2831	0.382
2/22/2005 19:41	408.2831	0.382
2/22/2005 19:42	409.2831	0.379
2/22/2005 19:43	410.2831	0.379
2/22/2005 19:44	411.2831	0.377
2/22/2005 19:45	412.2831	0.374
2/22/2005 19:46	413.2831	0.374
2/22/2005 19:47	414.2831	0.371
2/22/2005 19:48	415.2831	0.371
2/22/2005 19:49	416.2831	0.368
2/22/2005 19:50	417.2831	0.368
2/22/2005 19:51	418.2831	0.368
2/22/2005 19:52	419.2831	0.365
2/22/2005 19:53	420.2831	0.365
2/22/2005 19:54	421.2831	0.362
2/22/2005 19:55	422.2831	0.362
2/22/2005 19:56	423.2831	0.362
2/22/2005 19:57	424.2831	0.362
2/22/2005 19:58	425.2831	0.359
2/22/2005 19:59	426.2831	0.356
2/22/2005 20:00	427.2831	0.356
2/22/2005 20:01	428.2831	0.356
2/22/2005 20:02	429.2831	0.354
2/22/2005 20:03	430.2831	0.354
2/22/2005 20:04	431.2831	0.351
2/22/2005 20:05	432.2831	0.351
2/22/2005 20:06	433.2831	0.348
2/22/2005 20:07	434.2831	0.345
2/22/2005 20:08	435.2831	0.348
2/22/2005 20:09	436.2831	0.345
2/22/2005 20:10	437.2831	0.345
2/22/2005 20:11	438.2831	0.339
2/22/2005 20:12	439.2831	0.339
2/22/2005 20:13	440.2831	0.339
2/22/2005 20:14	441.2831	0.336
2/22/2005 20:15	442.2831	0.336
2/22/2005 20:16	443.2831	0.336
2/22/2005 20:17	444.2831	0.333
2/22/2005 20:18	445.2831	0.333
2/22/2005 20:19	446.2831	0.333

Date Time M/DD/YYY HH:MM	Elapse Time (minutes)	ICU Permanent Well (feet)
2/22/2005 20:20	447.2831	0.333
2/22/2005 20:21	448.2831	0.331
2/22/2005 20:22	449.2831	0.331
2/22/2005 20:23	450.2831	0.328
2/22/2005 20:24	451.2831	0.328
2/22/2005 20:25	452.2831	0.328
2/22/2005 20:26	453.2831	0.325
2/22/2005 20:27	454.2831	0.325
2/22/2005 20:28	455.2831	0.325
2/22/2005 20:29	456.2831	0.322
2/22/2005 20:30	457.2831	0.322
2/22/2005 20:31	458.2831	0.319
2/22/2005 20:32	459.2831	0.319
2/22/2005 20:33	460.2831	0.319
2/22/2005 20:34	461.2831	0.319
2/22/2005 20:35	462.2831	0.316
2/22/2005 20:36	463.2831	0.316
2/22/2005 20:37	464.2831	0.316
2/22/2005 20:38	465.2831	0.31
2/22/2005 20:39	466.2831	0.31
2/22/2005 20:40	467.2831	0.31
2/22/2005 20:41	468.2831	0.308
2/22/2005 20:42	469.2831	0.308
2/22/2005 20:43	470.2831	0.308
2/22/2005 20:44	471.2831	0.308
2/22/2005 20:45	472.2831	0.305
2/22/2005 20:46	473.2831	0.305
2/22/2005 20:47	474.2831	0.302
2/22/2005 20:48	475.2831	0.302
2/22/2005 20:49	476.2831	0.302
2/22/2005 20:50	477.2831	0.299
2/22/2005 20:51	478.2831	0.299
2/22/2005 20:52	479.2831	0.299
2/22/2005 20:53	480.2831	0.299
2/22/2005 20:54	481.2831	0.296
2/22/2005 20:55	482.2831	0.296
2/22/2005 20:56	483.2831	0.293
2/22/2005 20:57	484.2831	0.293
2/22/2005 20:58	485.2831	0.293
2/22/2005 20:59	486.2831	0.29
2/22/2005 21:00	487.2831	0.29
2/22/2005 21:01	488.2831	0.29
2/22/2005 21:02	489.2831	0.287
2/22/2005 21:03	490.2831	0.287
2/22/2005 21:04	491.2831	0.287
2/22/2005 21:05	492.2831	0.287
2/22/2005 21:06	493.2831	0.285
2/22/2005 21:07	494.2831	0.285
2/22/2005 21:08	495.2831	0.285
2/22/2005 21:09	496.2831	0.285
2/22/2005 21:10	497.2831	0.282
2/22/2005 21:11	498.2831	0.282
2/22/2005 21:12	499.2831	0.282
2/22/2005 21:13	500.2831	0.276

Date Time M/DD/YYY HH:MM	Elapse Time (minutes)	ICU Permanent Well (feet)
2/22/2005 21:14	501.2831	0.276
2/22/2005 21:15	502.2831	0.276
2/22/2005 21:16	503.2831	0.273
2/22/2005 21:17	504.2831	0.273
2/22/2005 21:18	505.2831	0.273
2/22/2005 21:19	506.2831	0.273
2/22/2005 21:20	507.2831	0.273
2/22/2005 21:21	508.2831	0.27
2/22/2005 21:22	509.2831	0.27
2/22/2005 21:23	510.2831	0.27
2/22/2005 21:24	511.2831	0.267
2/22/2005 21:25	512.2831	0.267
2/22/2005 21:26	513.2831	0.267
2/22/2005 21:27	514.2831	0.267
2/22/2005 21:28	515.2831	0.267
2/22/2005 21:29	516.2831	0.264
2/22/2005 21:30	517.2831	0.264
2/22/2005 21:31	518.2831	0.264
2/22/2005 21:32	519.2831	0.262
2/22/2005 21:33	520.2831	0.262
2/22/2005 21:34	521.2831	0.262
2/22/2005 21:35	522.2831	0.259
2/22/2005 21:36	523.2831	0.259
2/22/2005 21:37	524.2831	0.259
2/22/2005 21:38	525.2831	0.259
2/22/2005 21:39	526.2831	0.259
2/22/2005 21:40	527.2831	0.256
2/22/2005 21:41	528.2831	0.256
2/22/2005 21:42	529.2831	0.256
2/22/2005 21:43	530.2831	0.253
2/22/2005 21:44	531.2831	0.253
2/22/2005 21:45	532.2831	0.25
2/22/2005 21:46	533.2831	0.253
2/22/2005 21:47	534.2831	0.253
2/22/2005 21:48	535.2831	0.25
2/22/2005 21:49	536.2831	0.25
2/22/2005 21:50	537.2831	0.25
2/22/2005 21:51	538.2831	0.247
2/22/2005 21:52	539.2831	0.247
2/22/2005 21:53	540.2831	0.247
2/22/2005 21:54	541.2831	0.244
2/22/2005 21:55	542.2831	0.244
2/22/2005 21:56	543.2831	0.241
2/22/2005 21:57	544.2831	0.241
2/22/2005 21:58	545.2831	0.241
2/22/2005 21:59	546.2831	0.239
2/22/2005 22:00	547.2831	0.239
2/22/2005 22:01	548.2831	0.239
2/22/2005 22:02	549.2831	0.239
2/22/2005 22:03	550.2831	0.239
2/22/2005 22:04	551.2831	0.236
2/22/2005 22:05	552.2831	0.236
2/22/2005 22:06	553.2831	0.236
2/22/2005 22:07	554.2831	0.236

Date Time M/DD/YYY HH:MM	Elapse Time (minutes)	ICU Permanent Well (feet)
2/22/2005 22:08	555.2831	0.233
2/22/2005 22:09	556.2831	0.233
2/22/2005 22:10	557.2831	0.233
2/22/2005 22:11	558.2831	0.233
2/22/2005 22:12	559.2831	0.233
2/22/2005 22:13	560.2831	0.23
2/22/2005 22:14	561.2831	0.23
2/22/2005 22:15	562.2831	0.23
2/22/2005 22:16	563.2831	0.23
2/22/2005 22:17	564.2831	0.227
2/22/2005 22:18	565.2831	0.227
2/22/2005 22:19	566.2831	0.224
2/22/2005 22:20	567.2831	0.224
2/22/2005 22:21	568.2831	0.224
2/22/2005 22:22	569.2831	0.224
2/22/2005 22:23	570.2831	0.224
2/22/2005 22:24	571.2831	0.221
2/22/2005 22:25	572.2831	0.221
2/22/2005 22:26	573.2831	0.221
2/22/2005 22:27	574.2831	0.221
2/22/2005 22:28	575.2831	0.221
2/22/2005 22:29	576.2831	0.218
2/22/2005 22:30	577.2831	0.218
2/22/2005 22:31	578.2831	0.218
2/22/2005 22:32	579.2831	0.218
2/22/2005 22:33	580.2831	0.216
2/22/2005 22:34	581.2831	0.216
2/22/2005 22:35	582.2831	0.216
2/22/2005 22:36	583.2831	0.213
2/22/2005 22:37	584.2831	0.216
2/22/2005 22:38	585.2831	0.216
2/22/2005 22:39	586.2831	0.213
2/22/2005 22:40	587.2831	0.213
2/22/2005 22:41	588.2831	0.213
2/22/2005 22:42	589.2831	0.21
2/22/2005 22:43	590.2831	0.207
2/22/2005 22:44	591.2831	0.213
2/22/2005 22:45	592.2831	0.207
2/22/2005 22:46	593.2831	0.207
2/22/2005 22:47	594.2831	0.207
2/22/2005 22:48	595.2831	0.204
2/22/2005 22:49	596.2831	0.204
2/22/2005 22:50	597.2831	0.204
2/22/2005 22:51	598.2831	0.204
2/22/2005 22:52	599.2831	0.201
2/22/2005 22:53	600.2831	0.201
2/22/2005 22:54	601.2831	0.201
2/22/2005 22:55	602.2831	0.201
2/22/2005 22:56	603.2831	0.198
2/22/2005 22:57	604.2831	0.198
2/22/2005 22:58	605.2831	0.198
2/22/2005 22:59	606.2831	0.195
2/22/2005 23:00	607.2831	0.198
2/22/2005 23:01	608.2831	0.195

Date Time M/DD/YYY HH:MM	Elapse Time (minutes)	ICU Permanent Well (feet)
2/22/2005 23:02	609.2831	0.195
2/22/2005 23:03	610.2831	0.195
2/22/2005 23:04	611.2831	0.195
2/22/2005 23:05	612.2831	0.195
2/22/2005 23:06	613.2831	0.193
2/22/2005 23:07	614.2831	0.193
2/22/2005 23:08	615.2831	0.193
2/22/2005 23:09	616.2831	0.193
2/22/2005 23:10	617.2831	0.193
2/22/2005 23:11	618.2831	0.19
2/22/2005 23:12	619.2831	0.19
2/22/2005 23:13	620.2831	0.193
2/22/2005 23:14	621.2831	0.19
2/22/2005 23:15	622.2831	0.19
2/22/2005 23:16	623.2831	0.187
2/22/2005 23:17	624.2831	0.187
2/22/2005 23:18	625.2831	0.187
2/22/2005 23:19	626.2831	0.187
2/22/2005 23:20	627.2831	0.187
2/22/2005 23:21	628.2831	0.184
2/22/2005 23:22	629.2831	0.187
2/22/2005 23:23	630.2831	0.184
2/22/2005 23:24	631.2831	0.184
2/22/2005 23:25	632.2831	0.184
2/22/2005 23:26	633.2831	0.184
2/22/2005 23:27	634.2831	0.184
2/22/2005 23:28	635.2831	0.184
2/22/2005 23:29	636.2831	0.181
2/22/2005 23:30	637.2831	0.181
2/22/2005 23:31	638.2831	0.181
2/22/2005 23:32	639.2831	0.181
2/22/2005 23:33	640.2831	0.178
2/22/2005 23:34	641.2831	0.178
2/22/2005 23:35	642.2831	0.178
2/22/2005 23:36	643.2831	0.178
2/22/2005 23:37	644.2831	0.178
2/22/2005 23:38	645.2831	0.175
2/22/2005 23:39	646.2831	0.178
2/22/2005 23:40	647.2831	0.175
2/22/2005 23:41	648.2831	0.175
2/22/2005 23:42	649.2831	0.175
2/22/2005 23:43	650.2831	0.175
2/22/2005 23:44	651.2831	0.175
2/22/2005 23:45	652.2831	0.175
2/22/2005 23:46	653.2831	0.172
2/22/2005 23:47	654.2831	0.172
2/22/2005 23:48	655.2831	0.172
2/22/2005 23:49	656.2831	0.172
2/22/2005 23:50	657.2831	0.172
2/22/2005 23:51	658.2831	0.17
2/22/2005 23:52	659.2831	0.167
2/22/2005 23:53	660.2831	0.167
2/22/2005 23:54	661.2831	0.167
2/22/2005 23:55	662.2831	0.167

Date Time M/DD/YYY HH:MM	Elapse Time (minutes)	ICU Permanent Well (feet)
2/22/2005 23:56	663.2831	0.167
2/22/2005 23:57	664.2831	0.167
2/22/2005 23:58	665.2831	0.164
2/22/2005 23:59	666.2831	0.164
2/23/2005 0:00	667.2831	0.164
2/23/2005 0:01	668.2831	0.164
2/23/2005 0:02	669.2831	0.164
2/23/2005 0:03	670.2831	0.161
2/23/2005 0:04	671.2831	0.164
2/23/2005 0:05	672.2831	0.161
2/23/2005 0:06	673.2831	0.161
2/23/2005 0:07	674.2831	0.161
2/23/2005 0:08	675.2831	0.161
2/23/2005 0:09	676.2831	0.161
2/23/2005 0:10	677.2831	0.161
2/23/2005 0:11	678.2831	0.158
2/23/2005 0:12	679.2831	0.158
2/23/2005 0:13	680.2831	0.158
2/23/2005 0:14	681.2831	0.155
2/23/2005 0:15	682.2831	0.155
2/23/2005 0:16	683.2831	0.158
2/23/2005 0:17	684.2831	0.158
2/23/2005 0:18	685.2831	0.158
2/23/2005 0:19	686.2831	0.155
2/23/2005 0:20	687.2831	0.155
2/23/2005 0:21	688.2831	0.155
2/23/2005 0:22	689.2831	0.155
2/23/2005 0:23	690.2831	0.155
2/23/2005 0:24	691.2831	0.152
2/23/2005 0:25	692.2831	0.152
2/23/2005 0:26	693.2831	0.152
2/23/2005 0:27	694.2831	0.152
2/23/2005 0:28	695.2831	0.152
2/23/2005 0:29	696.2831	0.152
2/23/2005 0:30	697.2831	0.152
2/23/2005 0:31	698.2831	0.152
2/23/2005 0:32	699.2831	0.152
2/23/2005 0:33	700.2831	0.149
2/23/2005 0:34	701.2831	0.149
2/23/2005 0:35	702.2831	0.149
2/23/2005 0:36	703.2831	0.149
2/23/2005 0:37	704.2831	0.147
2/23/2005 0:38	705.2831	0.147
2/23/2005 0:39	706.2831	0.147
2/23/2005 0:40	707.2831	0.147
2/23/2005 0:41	708.2831	0.147
2/23/2005 0:42	709.2831	0.147
2/23/2005 0:43	710.2831	0.147
2/23/2005 0:44	711.2831	0.147
2/23/2005 0:45	712.2831	0.147
2/23/2005 0:46	713.2831	0.144
2/23/2005 0:47	714.2831	0.147
2/23/2005 0:48	715.2831	0.144
2/23/2005 0:49	716.2831	0.147

Date Time M/DD/YYY HH:MM	Elapse Time (minutes)	ICU Permanent Well (feet)
2/23/2005 0:50	717.2831	0.144
2/23/2005 0:51	718.2831	0.144
2/23/2005 0:52	719.2831	0.144
2/23/2005 0:53	720.2831	0.144
2/23/2005 0:54	721.2831	0.144
2/23/2005 0:55	722.2831	0.144
2/23/2005 0:56	723.2831	0.144
2/23/2005 0:57	724.2831	0.141
2/23/2005 0:58	725.2831	0.141
2/23/2005 0:59	726.2831	0.141
2/23/2005 1:00	727.2831	0.141
2/23/2005 1:01	728.2831	0.141
2/23/2005 1:02	729.2831	0.141
2/23/2005 1:03	730.2831	0.141
2/23/2005 1:04	731.2831	0.141
2/23/2005 1:05	732.2831	0.141
2/23/2005 1:06	733.2831	0.141
2/23/2005 1:07	734.2831	0.138
2/23/2005 1:08	735.2831	0.138
2/23/2005 1:09	736.2831	0.138
2/23/2005 1:10	737.2831	0.138
2/23/2005 1:11	738.2831	0.138
2/23/2005 1:12	739.2831	0.138
2/23/2005 1:13	740.2831	0.138
2/23/2005 1:14	741.2831	0.138
2/23/2005 1:15	742.2831	0.138
2/23/2005 1:16	743.2831	0.138
2/23/2005 1:17	744.2831	0.135
2/23/2005 1:18	745.2831	0.135
2/23/2005 1:19	746.2831	0.135
2/23/2005 1:20	747.2831	0.135
2/23/2005 1:21	748.2831	0.135
2/23/2005 1:22	749.2831	0.135
2/23/2005 1:23	750.2831	0.135
2/23/2005 1:24	751.2831	0.135
2/23/2005 1:25	752.2831	0.132
2/23/2005 1:26	753.2831	0.132
2/23/2005 1:27	754.2831	0.132
2/23/2005 1:28	755.2831	0.132
2/23/2005 1:29	756.2831	0.129
2/23/2005 1:30	757.2831	0.129
2/23/2005 1:31	758.2831	0.129
2/23/2005 1:32	759.2831	0.129
2/23/2005 1:33	760.2831	0.129
2/23/2005 1:34	761.2831	0.129
2/23/2005 1:35	762.2831	0.129
2/23/2005 1:36	763.2831	0.129
2/23/2005 1:37	764.2831	0.129
2/23/2005 1:38	765.2831	0.129
2/23/2005 1:39	766.2831	0.129
2/23/2005 1:40	767.2831	0.129
2/23/2005 1:41	768.2831	0.129
2/23/2005 1:42	769.2831	0.129
2/23/2005 1:43	770.2831	0.129

Date Time M/DD/YYY HH:MM	Elapse Time (minutes)	ICU Permanent Well (feet)
2/23/2005 1:44	771.2831	0.129
2/23/2005 1:45	772.2831	0.129
2/23/2005 1:46	773.2831	0.126
2/23/2005 1:47	774.2831	0.129
2/23/2005 1:48	775.2831	0.129
2/23/2005 1:49	776.2831	0.129
2/23/2005 1:50	777.2831	0.129
2/23/2005 1:51	778.2831	0.126
2/23/2005 1:52	779.2831	0.126
2/23/2005 1:53	780.2831	0.126
2/23/2005 1:54	781.2831	0.126
2/23/2005 1:55	782.2831	0.126
2/23/2005 1:56	783.2831	0.126
2/23/2005 1:57	784.2831	0.126
2/23/2005 1:58	785.2831	0.126
2/23/2005 1:59	786.2831	0.126
2/23/2005 2:00	787.2831	0.124
2/23/2005 2:01	788.2831	0.124
2/23/2005 2:02	789.2831	0.126
2/23/2005 2:03	790.2831	0.126
2/23/2005 2:04	791.2831	0.126
2/23/2005 2:05	792.2831	0.124
2/23/2005 2:06	793.2831	0.126
2/23/2005 2:07	794.2831	0.126
2/23/2005 2:08	795.2831	0.126
2/23/2005 2:09	796.2831	0.126
2/23/2005 2:10	797.2831	0.126
2/23/2005 2:11	798.2831	0.124
2/23/2005 2:12	799.2831	0.126
2/23/2005 2:13	800.2831	0.124
2/23/2005 2:14	801.2831	0.124
2/23/2005 2:15	802.2831	0.126
2/23/2005 2:16	803.2831	0.124
2/23/2005 2:17	804.2831	0.124
2/23/2005 2:18	805.2831	0.126
2/23/2005 2:19	806.2831	0.126
2/23/2005 2:20	807.2831	0.124
2/23/2005 2:21	808.2831	0.126
2/23/2005 2:22	809.2831	0.124
2/23/2005 2:23	810.2831	0.124
2/23/2005 2:24	811.2831	0.124
2/23/2005 2:25	812.2831	0.124
2/23/2005 2:26	813.2831	0.124
2/23/2005 2:27	814.2831	0.124
2/23/2005 2:28	815.2831	0.124
2/23/2005 2:29	816.2831	0.124
2/23/2005 2:30	817.2831	0.124
2/23/2005 2:31	818.2831	0.124
2/23/2005 2:32	819.2831	0.124
2/23/2005 2:33	820.2831	0.124
2/23/2005 2:34	821.2831	0.124
2/23/2005 2:35	822.2831	0.124
2/23/2005 2:36	823.2831	0.124
2/23/2005 2:37	824.2831	0.124

Date Time M/DD/YYY HH:MM	Elapse Time (minutes)	ICU Permanent Well (feet)
2/23/2005 2:38	825.2831	0.124
2/23/2005 2:39	826.2831	0.124
2/23/2005 2:40	827.2831	0.124
2/23/2005 2:41	828.2831	0.124
2/23/2005 2:42	829.2831	0.124
2/23/2005 2:43	830.2831	0.124
2/23/2005 2:44	831.2831	0.124
2/23/2005 2:45	832.2831	0.124
2/23/2005 2:46	833.2831	0.124
2/23/2005 2:47	834.2831	0.124
2/23/2005 2:48	835.2831	0.124
2/23/2005 2:49	836.2831	0.124
2/23/2005 2:50	837.2831	0.124
2/23/2005 2:51	838.2831	0.124
2/23/2005 2:52	839.2831	0.124
2/23/2005 2:53	840.2831	0.124
2/23/2005 2:54	841.2831	0.124
2/23/2005 2:55	842.2831	0.124
2/23/2005 2:56	843.2831	0.124
2/23/2005 2:57	844.2831	0.124
2/23/2005 2:58	845.2831	0.124
2/23/2005 2:59	846.2831	0.124
2/23/2005 3:00	847.2831	0.124
2/23/2005 3:01	848.2831	0.124
2/23/2005 3:02	849.2831	0.124
2/23/2005 3:03	850.2831	0.124
2/23/2005 3:04	852.8003	0.124
2/23/2005 3:05	853.8003	0.124
2/23/2005 3:06	854.8003	0.124
2/23/2005 3:07	855.8003	0.124
2/23/2005 3:08	856.8003	0.124
2/23/2005 3:09	857.8003	0.124
2/23/2005 3:10	858.8003	0.124
2/23/2005 3:11	859.8003	0.124
2/23/2005 3:12	860.8003	0.124
2/23/2005 3:13	861.8003	0.124
2/23/2005 3:14	862.8003	0.124
2/23/2005 3:15	863.8003	0.124
2/23/2005 3:16	864.8003	0.124
2/23/2005 3:17	865.8003	0.124
2/23/2005 3:18	866.8003	0.124
2/23/2005 3:19	867.8003	0.124
2/23/2005 3:20	868.8003	0.124
2/23/2005 3:21	869.8003	0.124
2/23/2005 3:22	870.8003	0.124
2/23/2005 3:23	871.8003	0.124
2/23/2005 3:24	872.8003	0.124
2/23/2005 3:25	873.8003	0.124
2/23/2005 3:26	874.8003	0.124
2/23/2005 3:27	875.8003	0.124
2/23/2005 3:28	876.8003	0.124
2/23/2005 3:29	877.8003	0.126
2/23/2005 3:30	878.8003	0.124
2/23/2005 3:31	879.8003	0.126

Date Time M/DD/YYY HH:MM	Elapse Time (minutes)	ICU Permanent Well (feet)
2/23/2005 3:32	880.8003	0.126
2/23/2005 3:33	881.8003	0.126
2/23/2005 3:34	882.8003	0.126
2/23/2005 3:35	883.8003	0.124
2/23/2005 3:36	884.8003	0.126
2/23/2005 3:37	885.8003	0.126
2/23/2005 3:38	886.8003	0.124
2/23/2005 3:39	887.8003	0.126
2/23/2005 3:40	888.8003	0.126
2/23/2005 3:41	889.8003	0.126
2/23/2005 3:42	890.8003	0.126
2/23/2005 3:43	891.8003	0.126
2/23/2005 3:44	892.8003	0.126
2/23/2005 3:45	893.8003	0.129
2/23/2005 3:46	894.8003	0.129
2/23/2005 3:47	895.8003	0.129
2/23/2005 3:48	896.8003	0.126
2/23/2005 3:49	897.8003	0.126
2/23/2005 3:50	898.8003	0.126
2/23/2005 3:51	899.8003	0.126
2/23/2005 3:52	900.8003	0.129
2/23/2005 3:53	901.8003	0.129
2/23/2005 3:54	902.8003	0.126
2/23/2005 3:55	903.8003	0.129
2/23/2005 3:56	904.8003	0.129
2/23/2005 3:57	905.8003	0.129
2/23/2005 3:58	906.8003	0.129
2/23/2005 3:59	907.8003	0.129
2/23/2005 4:00	908.8003	0.129
2/23/2005 4:01	909.8003	0.129
2/23/2005 4:02	910.8003	0.129
2/23/2005 4:03	911.8003	0.129
2/23/2005 4:04	912.8003	0.129
2/23/2005 4:05	913.8003	0.129
2/23/2005 4:06	914.8003	0.129
2/23/2005 4:07	915.8003	0.129
2/23/2005 4:08	916.8003	0.129
2/23/2005 4:09	917.8003	0.129
2/23/2005 4:10	918.8003	0.132
2/23/2005 4:11	919.8003	0.132
2/23/2005 4:12	920.8003	0.129
2/23/2005 4:13	921.8003	0.132
2/23/2005 4:14	922.8003	0.129
2/23/2005 4:15	923.8003	0.129
2/23/2005 4:16	924.8003	0.129
2/23/2005 4:17	925.8003	0.132
2/23/2005 4:18	926.8003	0.132
2/23/2005 4:19	927.8003	0.132
2/23/2005 4:20	928.8003	0.132
2/23/2005 4:21	929.8003	0.132
2/23/2005 4:22	930.8003	0.132
2/23/2005 4:23	931.8003	0.132
2/23/2005 4:24	932.8003	0.132
2/23/2005 4:25	933.8003	0.132

Date Time M/DD/YYY HH:MM	Elapse Time (minutes)	ICU Permanent Well (feet)
2/23/2005 4:26	934.8003	0.132
2/23/2005 4:27	935.8003	0.132
2/23/2005 4:28	936.8003	0.132
2/23/2005 4:29	937.8003	0.132
2/23/2005 4:30	938.8003	0.132
2/23/2005 4:31	939.8003	0.132
2/23/2005 4:32	940.8003	0.132
2/23/2005 4:33	941.8003	0.132
2/23/2005 4:34	942.8003	0.132
2/23/2005 4:35	943.8003	0.132
2/23/2005 4:36	944.8003	0.135
2/23/2005 4:37	945.8003	0.135
2/23/2005 4:38	946.8003	0.135
2/23/2005 4:39	947.8003	0.135
2/23/2005 4:40	948.8003	0.135
2/23/2005 4:41	949.8003	0.135
2/23/2005 4:42	950.8003	0.135
2/23/2005 4:43	951.8003	0.132
2/23/2005 4:44	952.8003	0.135
2/23/2005 4:45	953.8003	0.135
2/23/2005 4:46	954.8003	0.135
2/23/2005 4:47	955.8003	0.135
2/23/2005 4:48	956.8003	0.135
2/23/2005 4:49	957.8003	0.135
2/23/2005 4:50	958.8003	0.135
2/23/2005 4:51	959.8003	0.135
2/23/2005 4:52	960.8003	0.135
2/23/2005 4:53	961.8003	0.135
2/23/2005 4:54	962.8003	0.135
2/23/2005 4:55	963.8003	0.135
2/23/2005 4:56	964.8003	0.138
2/23/2005 4:57	965.8003	0.135
2/23/2005 4:58	966.8003	0.135
2/23/2005 4:59	967.8003	0.135
2/23/2005 5:00	968.8003	0.138
2/23/2005 5:01	969.8003	0.138
2/23/2005 5:02	970.8003	0.138
2/23/2005 5:03	971.8003	0.138
2/23/2005 5:04	972.8003	0.138
2/23/2005 5:05	973.8003	0.138
2/23/2005 5:06	974.8003	0.138
2/23/2005 5:07	975.8003	0.138
2/23/2005 5:08	976.8003	0.138
2/23/2005 5:09	977.8003	0.138
2/23/2005 5:10	978.8003	0.138
2/23/2005 5:11	979.8003	0.138
2/23/2005 5:12	980.8003	0.138
2/23/2005 5:13	981.8003	0.138
2/23/2005 5:14	982.8003	0.138
2/23/2005 5:15	983.8003	0.141
2/23/2005 5:16	984.8003	0.141
2/23/2005 5:17	985.8003	0.141
2/23/2005 5:18	986.8003	0.141
2/23/2005 5:19	987.8003	0.141

Date Time M/DD/YYY HH:MM	Elapse Time (minutes)	ICU Permanent Well (feet)
2/23/2005 5:20	988.8003	0.141
2/23/2005 5:21	989.8003	0.141
2/23/2005 5:22	990.8003	0.141
2/23/2005 5:23	991.8003	0.141
2/23/2005 5:24	992.8003	0.141
2/23/2005 5:25	993.8003	0.138
2/23/2005 5:26	994.8003	0.141
2/23/2005 5:27	995.8003	0.141
2/23/2005 5:28	996.8003	0.141
2/23/2005 5:29	997.8003	0.141
2/23/2005 5:30	998.8003	0.141
2/23/2005 5:31	999.8003	0.141
2/23/2005 5:32	1000.8	0.141
2/23/2005 5:33	1001.8	0.141
2/23/2005 5:34	1002.8	0.141
2/23/2005 5:35	1003.8	0.141
2/23/2005 5:36	1004.8	0.144
2/23/2005 5:37	1005.8	0.144
2/23/2005 5:38	1006.8	0.144
2/23/2005 5:39	1007.8	0.144
2/23/2005 5:40	1008.8	0.144
2/23/2005 5:41	1009.8	0.144
2/23/2005 5:42	1010.8	0.144
2/23/2005 5:43	1011.8	0.144
2/23/2005 5:44	1012.8	0.144
2/23/2005 5:45	1013.8	0.144
2/23/2005 5:46	1014.8	0.144
2/23/2005 5:47	1015.8	0.144
2/23/2005 5:48	1016.8	0.144
2/23/2005 5:49	1017.8	0.144
2/23/2005 5:50	1018.8	0.144
2/23/2005 5:51	1019.8	0.144
2/23/2005 5:52	1020.8	0.147
2/23/2005 5:53	1021.8	0.144
2/23/2005 5:54	1022.8	0.147
2/23/2005 5:55	1023.8	0.147
2/23/2005 5:56	1024.8	0.147
2/23/2005 5:57	1025.8	0.147
2/23/2005 5:58	1026.8	0.147
2/23/2005 5:59	1027.8	0.147
2/23/2005 6:00	1028.8	0.147
2/23/2005 6:01	1029.8	0.147
2/23/2005 6:02	1030.8	0.147
2/23/2005 6:03	1031.8	0.147
2/23/2005 6:04	1032.8	0.147
2/23/2005 6:05	1033.8	0.147
2/23/2005 6:06	1034.8	0.147
2/23/2005 6:07	1035.8	0.147
2/23/2005 6:08	1036.8	0.147
2/23/2005 6:09	1037.8	0.149
2/23/2005 6:10	1038.8	0.147
2/23/2005 6:11	1039.8	0.149
2/23/2005 6:12	1040.8	0.147
2/23/2005 6:13	1041.8	0.147

Date Time M/DD/YYY HH:MM	Elapse Time (minutes)	ICU Permanent Well (feet)
2/23/2005 6:14	1042.8	0.147
2/23/2005 6:15	1043.8	0.149
2/23/2005 6:16	1044.8	0.149
2/23/2005 6:17	1045.8	0.147
2/23/2005 6:18	1046.8	0.149
2/23/2005 6:19	1047.8	0.147
2/23/2005 6:20	1048.8	0.149
2/23/2005 6:21	1049.8	0.149
2/23/2005 6:22	1050.8	0.149
2/23/2005 6:23	1051.8	0.149
2/23/2005 6:24	1052.8	0.149
2/23/2005 6:25	1053.8	0.149
2/23/2005 6:26	1054.8	0.149
2/23/2005 6:27	1055.8	0.149
2/23/2005 6:28	1056.8	0.149
2/23/2005 6:29	1057.8	0.149
2/23/2005 6:30	1058.8	0.149
2/23/2005 6:31	1059.8	0.149
2/23/2005 6:32	1060.8	0.149
2/23/2005 6:33	1061.8	0.149
2/23/2005 6:34	1062.8	0.149
2/23/2005 6:35	1063.8	0.149
2/23/2005 6:36	1064.8	0.149
2/23/2005 6:37	1065.8	0.149
2/23/2005 6:38	1066.8	0.149
2/23/2005 6:39	1067.8	0.149
2/23/2005 6:40	1068.8	0.149
2/23/2005 6:41	1069.8	0.149
2/23/2005 6:42	1070.8	0.149
2/23/2005 6:43	1071.8	0.149
2/23/2005 6:44	1072.8	0.149
2/23/2005 6:45	1073.8	0.149
2/23/2005 6:46	1074.8	0.152
2/23/2005 6:47	1075.8	0.149
2/23/2005 6:48	1076.8	0.152
2/23/2005 6:49	1077.8	0.149
2/23/2005 6:50	1078.8	0.149
2/23/2005 6:51	1079.8	0.149
2/23/2005 6:52	1080.8	0.149
2/23/2005 6:53	1081.8	0.152
2/23/2005 6:54	1082.8	0.149
2/23/2005 6:55	1083.8	0.149
2/23/2005 6:56	1084.8	0.152
2/23/2005 6:57	1085.8	0.149
2/23/2005 6:58	1086.8	0.149
2/23/2005 6:59	1087.8	0.149
2/23/2005 7:00	1088.8	0.149
2/23/2005 7:01	1089.8	0.149
2/23/2005 7:02	1090.8	0.152
2/23/2005 7:03	1091.8	0.149
2/23/2005 7:04	1092.8	0.152
2/23/2005 7:05	1093.8	0.152
2/23/2005 7:06	1094.8	0.152
2/23/2005 7:07	1095.8	0.149

Date Time M/DD/YYY HH:MM	Elapse Time (minutes)	ICU Permanent Well (feet)
2/23/2005 7:08	1096.8	0.149
2/23/2005 7:09	1097.8	0.149
2/23/2005 7:10	1098.8	0.152
2/23/2005 7:11	1099.8	0.149
2/23/2005 7:12	1100.8	0.149
2/23/2005 7:13	1101.8	0.149
2/23/2005 7:14	1102.8	0.152
2/23/2005 7:15	1103.8	0.149
2/23/2005 7:16	1104.8	0.149
2/23/2005 7:17	1105.8	0.149
2/23/2005 7:18	1106.8	0.149
2/23/2005 7:19	1107.8	0.152
2/23/2005 7:20	1108.8	0.149
2/23/2005 7:21	1109.8	0.149
2/23/2005 7:22	1110.8	0.149
2/23/2005 7:23	1111.8	0.149
2/23/2005 7:24	1112.8	0.149
2/23/2005 7:25	1113.8	0.149
2/23/2005 7:26	1114.8	0.149
2/23/2005 7:27	1115.8	0.149
2/23/2005 7:28	1116.8	0.149
2/23/2005 7:29	1117.8	0.149
2/23/2005 7:30	1118.8	0.149
2/23/2005 7:31	1119.8	0.149
2/23/2005 7:32	1120.8	0.149
2/23/2005 7:33	1121.8	0.149
2/23/2005 7:34	1122.8	0.149
2/23/2005 7:35	1123.8	0.149
2/23/2005 7:36	1124.8	0.149
2/23/2005 7:37	1125.8	0.149
2/23/2005 7:38	1126.8	0.152
2/23/2005 7:39	1127.8	0.149
2/23/2005 7:40	1128.8	0.149
2/23/2005 7:41	1129.8	0.149
2/23/2005 7:42	1130.8	0.149
2/23/2005 7:43	1131.8	0.149
2/23/2005 7:44	1132.8	0.149
2/23/2005 7:45	1133.8	0.149
2/23/2005 7:46	1134.8	0.152
2/23/2005 7:47	1135.8	0.149
2/23/2005 7:48	1136.8	0.149
2/23/2005 7:49	1137.8	0.149
2/23/2005 7:50	1138.8	0.149
2/23/2005 7:51	1139.8	0.149
2/23/2005 7:52	1140.8	0.149
2/23/2005 7:53	1141.8	0.147
2/23/2005 7:54	1142.8	0.149
2/23/2005 7:55	1143.8	0.149
2/23/2005 7:56	1144.8	0.149
2/23/2005 7:57	1145.8	0.149
2/23/2005 7:58	1146.8	0.149
2/23/2005 7:59	1147.8	0.149
2/23/2005 8:00	1148.8	0.149
2/23/2005 8:01	1149.8	0.149

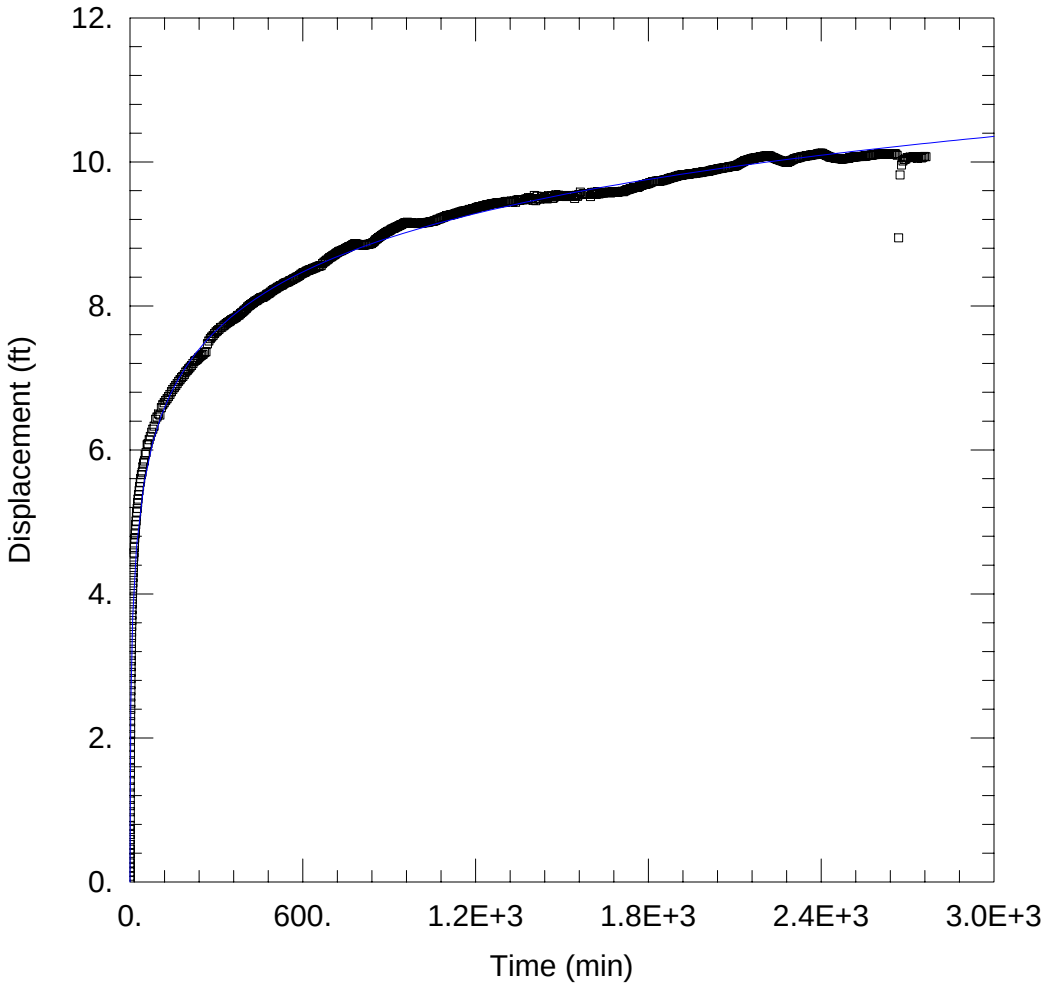
Date Time M/DD/YYY HH:MM	Elapse Time (minutes)	ICU Permanent Well (feet)
2/23/2005 8:02	1150.8	0.147
2/23/2005 8:03	1151.8	0.149
2/23/2005 8:04	1152.8	0.147
2/23/2005 8:05	1153.8	0.149
2/23/2005 8:06	1154.8	0.147
2/23/2005 8:07	1155.8	0.147
2/23/2005 8:08	1156.8	0.149
2/23/2005 8:09	1157.8	0.147
2/23/2005 8:10	1158.8	0.147
2/23/2005 8:11	1159.8	0.147
2/23/2005 8:12	1160.8	0.147
2/23/2005 8:13	1161.8	0.147
2/23/2005 8:14	1162.8	0.147
2/23/2005 8:15	1163.8	0.147
2/23/2005 8:16	1164.8	0.147
2/23/2005 8:17	1165.8	0.147
2/23/2005 8:18	1166.8	0.147
2/23/2005 8:19	1167.8	0.147
2/23/2005 8:20	1168.8	0.147
2/23/2005 8:21	1169.8	0.144
2/23/2005 8:22	1170.8	0.147
2/23/2005 8:23	1171.8	0.144
2/23/2005 8:24	1172.8	0.147
2/23/2005 8:25	1173.8	0.147
2/23/2005 8:26	1174.8	0.144
2/23/2005 8:27	1175.8	0.144
2/23/2005 8:28	1176.8	0.144
2/23/2005 8:29	1177.8	0.147
2/23/2005 8:30	1178.8	0.144
2/23/2005 8:31	1179.8	0.144
2/23/2005 8:32	1180.8	0.147
2/23/2005 8:33	1181.8	0.144
2/23/2005 8:34	1182.8	0.144
2/23/2005 8:35	1183.8	0.144
2/23/2005 8:36	1184.8	0.144
2/23/2005 8:37	1185.8	0.144
2/23/2005 8:38	1186.8	0.144
2/23/2005 8:39	1187.8	0.141
2/23/2005 8:40	1188.8	0.144
2/23/2005 8:41	1189.8	0.144
2/23/2005 8:42	1190.8	0.144
2/23/2005 8:43	1191.8	0.144
2/23/2005 8:44	1192.8	0.144
2/23/2005 8:45	1193.8	0.141
2/23/2005 8:46	1194.8	0.141
2/23/2005 8:47	1195.8	0.141
2/23/2005 8:48	1196.8	0.141
2/23/2005 8:49	1197.8	0.141
2/23/2005 8:50	1198.8	0.138
2/23/2005 8:51	1199.8	0.141
2/23/2005 8:52	1200.8	0.141
2/23/2005 8:53	1201.8	0.141
2/23/2005 8:54	1202.8	0.141
2/23/2005 8:55	1203.8	0.138

Date Time M/DD/YYY HH:MM	Elapse Time (minutes)	ICU Permanent Well (feet)
2/23/2005 8:56	1204.8	0.138
2/23/2005 8:57	1205.8	0.138
2/23/2005 8:58	1206.8	0.138
2/23/2005 8:59	1207.8	0.138
2/23/2005 9:00	1208.8	0.138
2/23/2005 9:01	1209.8	0.138
2/23/2005 9:02	1210.8	0.138
2/23/2005 9:03	1211.8	0.138
2/23/2005 9:04	1212.8	0.138
2/23/2005 9:05	1213.8	0.138
2/23/2005 9:06	1214.8	0.138
2/23/2005 9:07	1215.8	0.138
2/23/2005 9:08	1216.8	0.138
2/23/2005 9:09	1217.8	0.135
2/23/2005 9:10	1218.8	0.135
2/23/2005 9:11	1219.8	0.135
2/23/2005 9:12	1220.8	0.135
2/23/2005 9:13	1221.8	0.135
2/23/2005 9:14	1222.8	0.135
2/23/2005 9:15	1223.8	0.135
2/23/2005 9:16	1224.8	0.135
2/23/2005 9:17	1225.8	0.135
2/23/2005 9:18	1226.8	0.132
2/23/2005 9:19	1227.8	0.132
2/23/2005 9:20	1228.8	0.132
2/23/2005 9:21	1229.8	0.132
2/23/2005 9:22	1230.8	0.126
2/23/2005 9:23	1231.8	0.132
2/23/2005 9:24	1232.8	0.132
2/23/2005 9:25	1233.8	0.132
2/23/2005 9:26	1234.8	0.126
2/23/2005 9:27	1235.8	0.132
2/23/2005 9:28	1236.8	0.132
2/23/2005 9:29	1237.8	0.132
2/23/2005 9:30	1238.8	0.126
2/23/2005 9:31	1239.8	0.126
2/23/2005 9:32	1240.8	0.126
2/23/2005 9:33	1241.8	0.126
2/23/2005 9:34	1242.8	0.126
2/23/2005 9:35	1243.8	0.126
2/23/2005 9:36	1244.8	0.126
2/23/2005 9:37	1245.8	0.126
2/23/2005 9:38	1246.8	0.124
2/23/2005 9:39	1247.8	0.124
2/23/2005 9:40	1248.8	0.126
2/23/2005 9:41	1249.8	0.124
2/23/2005 9:42	1250.8	0.124
2/23/2005 9:43	1251.8	0.124
2/23/2005 9:44	1252.8	0.121
2/23/2005 9:45	1253.8	0.124
2/23/2005 9:46	1254.8	0.124
2/23/2005 9:47	1255.8	0.121
2/23/2005 9:48	1256.8	0.121
2/23/2005 9:49	1257.8	0.121

Date Time M/DD/YYY HH:MM	Elapse Time (minutes)	ICU Permanent Well (feet)
2/23/2005 9:50	1258.8	0.121
2/23/2005 9:51	1259.8	0.121
2/23/2005 9:52	1260.8	0.124
2/23/2005 9:53	1261.8	0.121
2/23/2005 9:54	1262.8	0.121
2/23/2005 9:55	1263.8	0.121
2/23/2005 9:56	1264.8	0.121
2/23/2005 9:57	1265.8	0.118
2/23/2005 9:58	1266.8	0.118
2/23/2005 9:59	1267.8	0.121
2/23/2005 10:00	1268.8	0.118
2/23/2005 10:01	1269.8	0.118
2/23/2005 10:02	1270.8	0.118
2/23/2005 10:03	1271.8	0.118
2/23/2005 10:04	1272.8	0.118
2/23/2005 10:05	1273.8	0.118
2/23/2005 10:06	1274.8	0.115
2/23/2005 10:07	1275.8	0.121
2/23/2005 10:08	1276.8	0.121
2/23/2005 10:09	1277.8	0.115
2/23/2005 10:10	1278.8	0.115
2/23/2005 10:11	1279.8	0.121
2/23/2005 10:12	1280.8	0.121
2/23/2005 10:13	1281.8	0.118
2/23/2005 10:14	1282.8	0.118
2/23/2005 10:15	1283.8	0.112
2/23/2005 10:16	1284.8	0.118
2/23/2005 10:17	1285.8	0.118
2/23/2005 10:18	1286.8	0.118
2/23/2005 10:19	1287.8	0.118
2/23/2005 10:20	1288.8	0.115
2/23/2005 10:21	1289.8	0.115
2/23/2005 10:22	1290.8	0.115
2/23/2005 10:23	1291.8	0.115
2/23/2005 10:24	1292.8	0.115
2/23/2005 10:25	1293.8	0.112
2/23/2005 10:26	1294.8	0.112
2/23/2005 10:27	1295.8	0.112
2/23/2005 10:28	1296.8	0.112
2/23/2005 10:29	1297.8	0.112
2/23/2005 10:30	1298.8	0.112
2/23/2005 10:31	1299.8	0.112
2/23/2005 10:32	1300.8	0.109
2/23/2005 10:33	1301.8	0.112
2/23/2005 10:34	1302.8	0.112
2/23/2005 10:35	1303.8	0.112
2/23/2005 10:36	1304.8	0.109
2/23/2005 10:37	1305.8	0.109
2/23/2005 10:38	1306.8	0.109
2/23/2005 10:39	1307.8	0.109
2/23/2005 10:40	1308.8	0.109
2/23/2005 10:41	1309.8	0.109
2/23/2005 10:42	1310.8	0.109
2/23/2005 10:43	1311.8	0.109

Date Time M/DD/YYY HH:MM	Elapse Time (minutes)	ICU Permanent Well (feet)
2/23/2005 10:44	1312.8	0.106
2/23/2005 10:45	1313.8	0.109
2/23/2005 10:46	1314.8	0.106
2/23/2005 10:47	1315.8	0.106
2/23/2005 10:48	1316.8	0.106
2/23/2005 10:49	1317.8	0.103
2/23/2005 10:50	1318.8	0.103
2/23/2005 10:51	1319.8	0.106
2/23/2005 10:52	1320.8	0.103
2/23/2005 10:53	1321.8	0.103
2/23/2005 10:54	1322.8	0.103
2/23/2005 10:55	1323.8	0.103
2/23/2005 10:56	1324.8	0.103
2/23/2005 10:57	1325.8	0.101
2/23/2005 10:58	1326.8	0.101
2/23/2005 10:59	1327.8	0.101
2/23/2005 11:00	1328.8	0.101
2/23/2005 11:01	1329.8	0.101
2/23/2005 11:02	1330.8	0.101
2/23/2005 11:03	1331.8	0.101
2/23/2005 11:04	1332.8	0.098
2/23/2005 11:05	1333.8	0.098
2/23/2005 11:06	1334.8	0.101
2/23/2005 11:07	1335.8	0.101
2/23/2005 11:08	1336.8	0.098
2/23/2005 11:09	1337.8	0.098
2/23/2005 11:10	1338.8	0.098
2/23/2005 11:11	1339.8	0.098
2/23/2005 11:12	1340.8	0.101
2/23/2005 11:13	1341.8	0.095
2/23/2005 11:14	1342.8	0.095
2/23/2005 11:15	1343.8	0.098
2/23/2005 11:16	1344.8	0.095
2/23/2005 11:17	1345.8	0.098
2/23/2005 11:18	1346.8	0.095
2/23/2005 11:19	1347.8	0.095
2/23/2005 11:20	1348.8	0.095
2/23/2005 11:21	1349.8	0.098
2/23/2005 11:22	1350.8	0.095
2/23/2005 11:23	1351.8	0.095
2/23/2005 11:24	1352.8	0.092

APPENDIX E.
Raw data, Hydrographs, and Curve-Match Analysis for the Upper Floridan Aquifer APT



UFA APT - UNK

Data Set: D:\Jerry\Projects\ROMP_29a\APTs\UFA APT\analysis\UFA_APT_C.aqt
Date: 04/05/05 Time: 16:03:41

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring, Florida
Test Well: UFA Mon.
Test Date: September, 2004

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
UFA Mon.	0	0

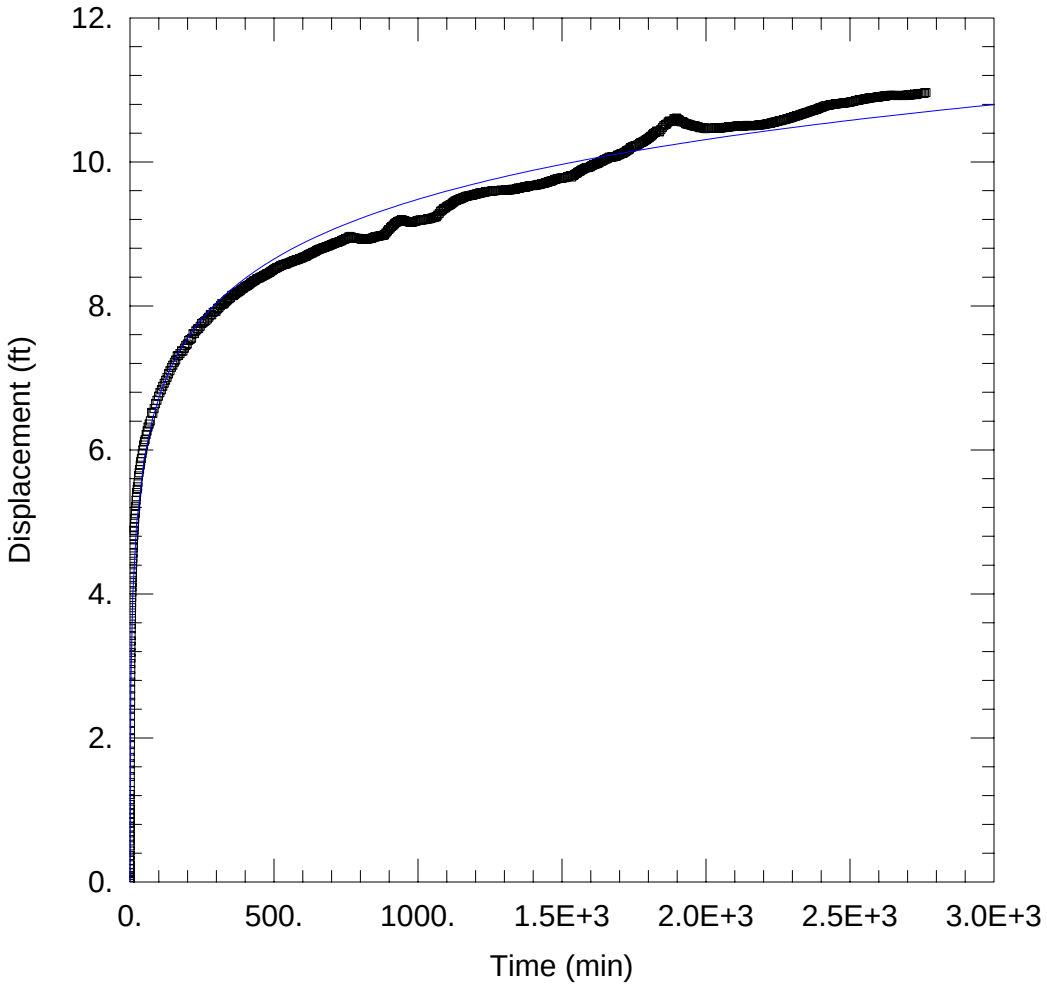
Observation Wells

Well Name	X (ft)	Y (ft)
▫ UFA OB	191	0

SOLUTION

Aquifer Model: Confined
Solution Method: Theis

T = 3.769E+4 ft^2/day
S = 0.0006906
Kz/Kr = 0.01
b = 1162. ft



UFA APT- CORRECTED RECOVERY

Data Set: D:\Jerry\Projects\ROMP_29a\APTs\UFA APT\analysis\UFA_APT_rec_C.aqt
Date: 04/05/05 Time: 16:03:06

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring, Florida
Test Well: UFA Mon.
Test Date: September, 2004

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
UFA Mon.	0	0

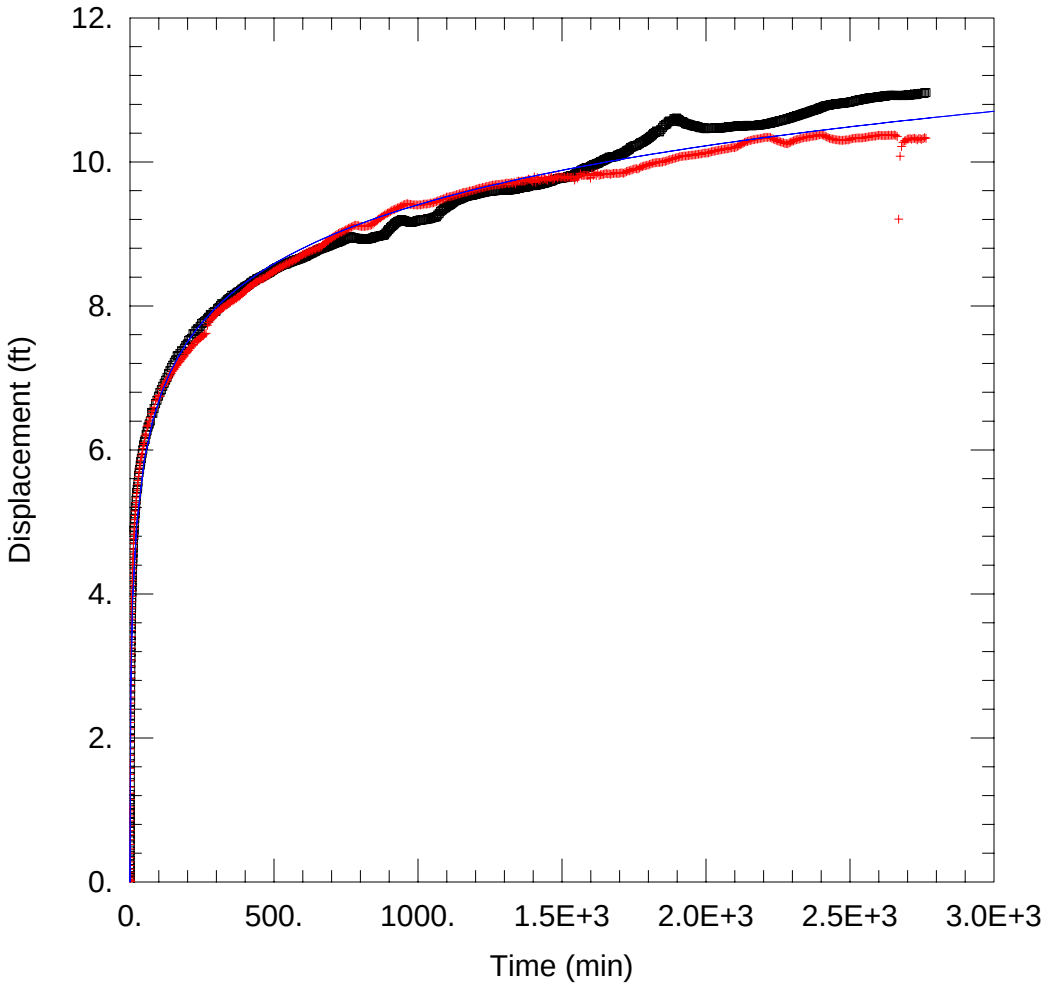
Observation Wells

Well Name	X (ft)	Y (ft)
▫ UFA OB	191	0

SOLUTION

Aquifer Model: Confined
Solution Method: Theis

T = 3.682E+4 ft^2/day
S = 0.0005713
Kz/Kr = 0.01
b = 1162. ft



UFA APT - CORRECTED

Data Set: D:\Jerry\Projects\ROMP_29a\APTs\UFA APT\analysis\UFA_APT_both_C.aqt
Date: 04/05/05 Time: 16:01:48

PROJECT INFORMATION

Company: SWFWMD
Project: ROMP 29A
Location: Sebring, Florida
Test Well: UFA Mon.
Test Date: September, 2004

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
UFA Mon.	0	0

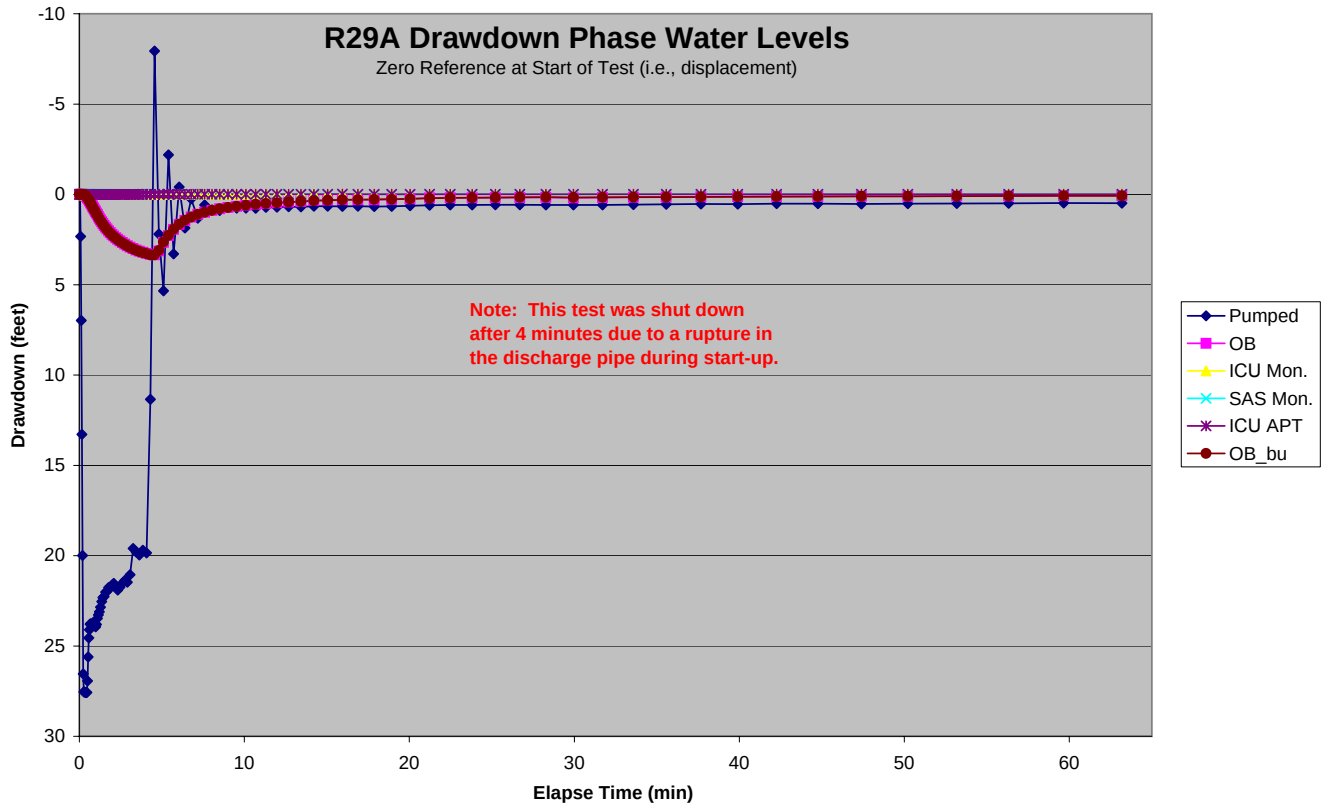
Observation Wells

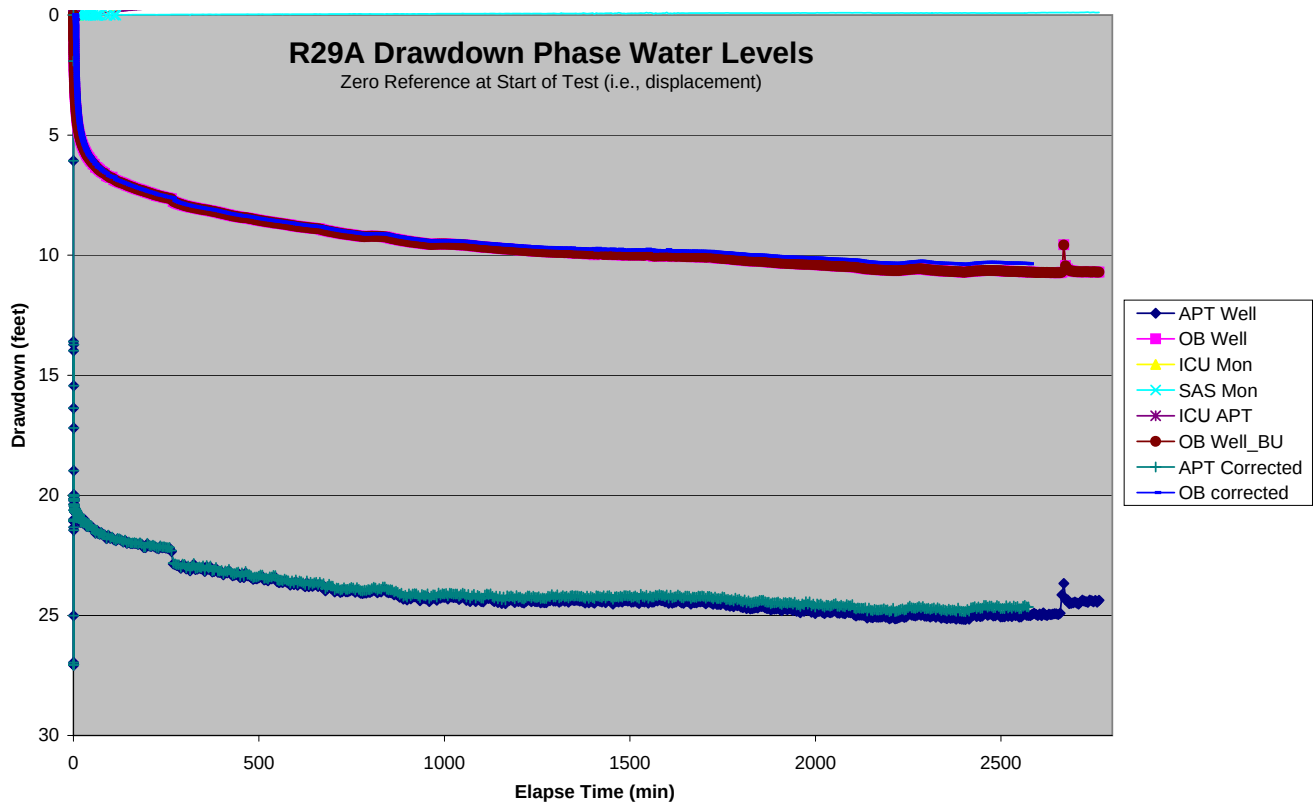
Well Name	X (ft)	Y (ft)
▫ UFA OB_rec	191	0
+ UFA OB_dd	0	191

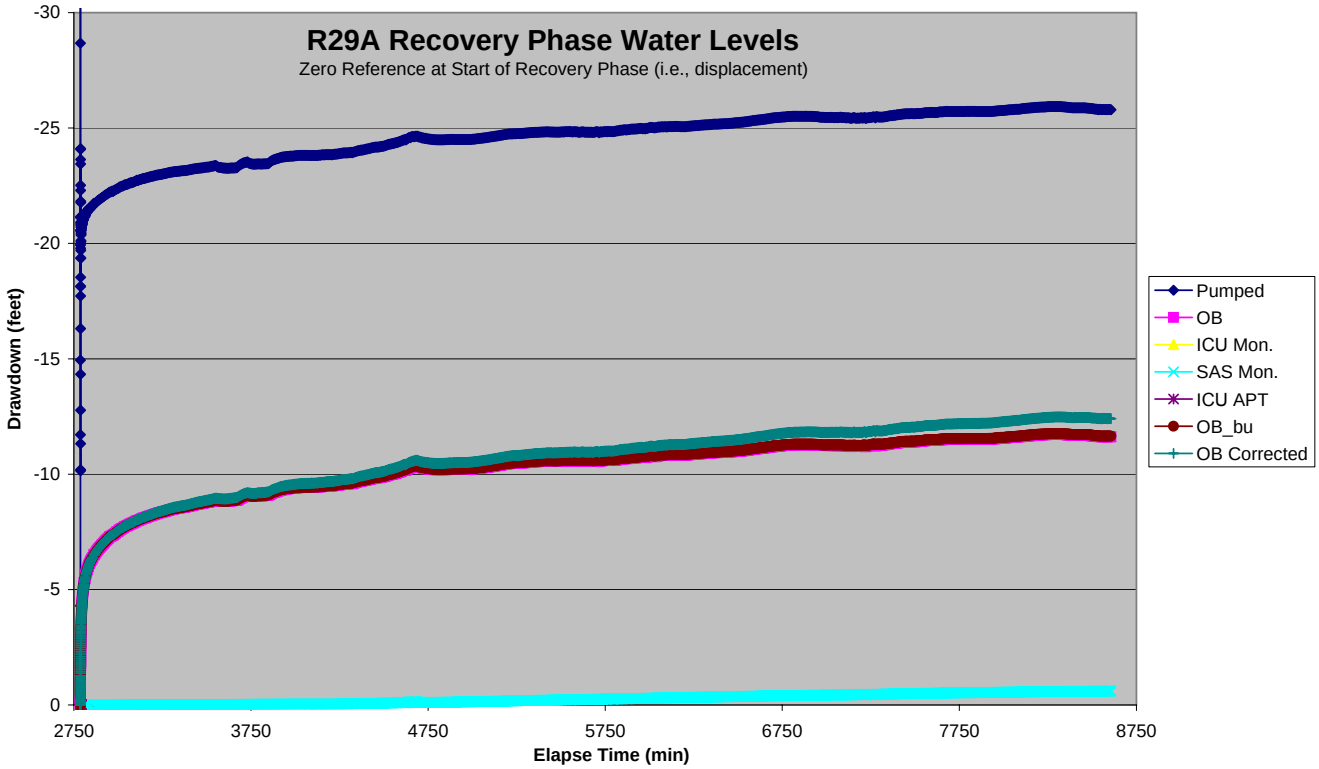
SOLUTION

Aquifer Model: Confined
Solution Method: Theis

T = 3.729E+4 ft^2/day
S = 0.0005582
Kz/Kr = 0.01
b = 1162. ft


R29A Drawdown Phase Water Levels
Zero Reference at Start of Test (i.e., displacement)
Note: This test was shut down after 4 minutes due to a rupture in the discharge pipe during start-up.
Drawdown (feet)
Elapse Time (min)
-10
-5
0
5
10
15
20
25
30
0
10
20
30
40
50
60
Pumped
OB
ICU Mon.
SAS Mon.
ICU APT
OB_bu


R29A Drawdown Phase Water Levels
Zero Reference at Start of Test (i.e., displacement)
Drawdown (feet)
Elapse Time (min)
0
5
10
15
20
25
30
0
500
1000
1500
2000
2500
APT Well
OB Well
ICU Mon
SAS Mon
ICU APT
OB Well_BU
APT Corrected
OB corrected


R29A Recovery Phase Water Levels
Zero Reference at Start of Recovery Phase (i.e., displacement)
Drawdown (feet)
-30
-25
-20
-15
-10
-5
0
2750
3750
4750
5750
6750
7750
8750
Elapse Time (min)
Pumped
OB
ICU Mon.
SAS Mon.
ICU APT
OB_bu
OB Corrected

In-Situ Inc. Hermit 3000 Logger
ROMP 29A - Sebring Wellsite
Upper Floridan aquifer System Aquifer Performance Test

Reference (@ start)	0	0	0	0	0	0
Pressure @ Reference	2.812	16.415	16.477	18.728	30.066	14.365
Specific Gravity	1	1	1	1	1	1
Linearity	0.1216	0.12	0.0643	0.0666	0.0766	0.1107
Scale	19.6931	19.8408	15.7239	15.5841	19.9206	15.009
Offset	-0.0269	-0.0445	-0.0609	-0.032	0.021	0.1591

DRAWDOWN PHASE 1 - STOPPED

Date Time MM/DD/YYYY HH:MM	Elapse Time (minutes)	UFA APT Well XD 1 (feet)	UFA OB Well XD 2 (feet)	ICU MON Well XD 4 (feet)	SAS MON Well XD 5 (feet)	ICU APT Well XD 6 (feet)	UFA OB Well (BU) XD 7 (feet)
8/10/2004 10:00	0	0	0	0	0	0	0
8/10/2004 10:00	0.0382	-0.017	0	0.002	0	-0.003	0
8/10/2004 10:00	0.0763	2.328	0	0.002	0	0	-0.002
8/10/2004 10:00	0.1145	6.976	0	0.002	0	0	-0.004
8/10/2004 10:00	0.1527	13.288	0	0.005	0	0	-0.004
8/10/2004 10:00	0.1908	19.989	0.003	0.005	0	0.003	0.002
8/10/2004 10:00	0.229	26.546	0.006	0.007	0.002	-0.003	0.007
8/10/2004 10:00	0.2672	27.535	0.017	0.005	0.002	0.003	0.022
8/10/2004 10:00	0.3053	27.54	0.026	0.005	-0.002	0	0.031
8/10/2004 10:00	0.3435	27.56	0.043	0.002	0	0	0.05
8/10/2004 10:00	0.3817	27.569	0.066	0.002	-0.002	0.003	0.083
8/10/2004 10:00	0.4198	27.574	0.098	0.002	-0.007	-0.003	0.112
8/10/2004 10:00	0.458	27.574	0.135	-0.002	-0.009	0	0.155
8/10/2004 10:00	0.4962	26.933	0.179	0.002	-0.007	0	0.203
8/10/2004 10:00	0.5343	25.609	0.228	0	-0.005	0	0.258
8/10/2004 10:00	0.5725	24.555	0.279	0.002	-0.009	0	0.313
8/10/2004 10:00	0.6107	24.103	0.334	0	-0.009	0	0.372
8/10/2004 10:00	0.6488	23.791	0.398	-0.002	-0.009	-0.003	0.433
8/10/2004 10:00	0.687	23.762	0.458	-0.002	-0.011	0.003	0.501
8/10/2004 10:01	0.7252	23.796	0.524	-0.002	-0.009	-0.003	0.564
8/10/2004 10:01	0.7633	23.887	0.588	-0.002	-0.011	0	0.627
8/10/2004 10:01	0.8028	23.739	0.657	-0.002	-0.014	0	0.7
8/10/2004 10:01	0.8447	23.725	0.726	-0.002	-0.009	-0.003	0.77
8/10/2004 10:01	0.889	23.839	0.798	-0.002	-0.016	0.003	0.839
8/10/2004 10:01	0.936	23.842	0.876	-0.002	-0.011	-0.003	0.914
8/10/2004 10:01	0.9858	23.938	0.953	-0.002	-0.014	0.003	0.997
8/10/2004 10:01	1.0385	23.811	1.034	-0.002	-0.011	0.003	1.078
8/10/2004 10:01	1.0943	23.469	1.103	-0.007	-0.014	0.003	1.143
8/10/2004 10:01	1.1535	23.273	1.221	-0.007	-0.011	-0.003	1.259
8/10/2004 10:01	1.2162	23.106	1.319	-0.007	-0.011	0.003	1.357
8/10/2004 10:01	1.2825	22.853	1.414	0	-0.014	0.009	1.449
8/10/2004 10:01	1.3528	22.543	1.515	0	-0.014	0.006	1.55
8/10/2004 10:01	1.4273	22.318	1.616	-0.002	-0.014	0.006	1.646
8/10/2004 10:01	1.5063	22.261	1.714	-0.002	-0.011	0	1.746
8/10/2004 10:01	1.59	22.022	1.815	-0.002	-0.011	0	1.849
8/10/2004 10:01	1.6785	21.974	1.915	-0.002	-0.011	0	1.945
8/10/2004 10:02	1.7723	21.764	2.019	0	-0.007	0	2.048
8/10/2004 10:02	1.8717	21.772	2.117	-0.002	-0.009	0	2.142
8/10/2004 10:02	1.977	21.63	2.212	0	-0.011	0.003	2.238
8/10/2004 10:02	2.0885	21.53	2.307	0	-0.014	0.003	2.328
8/10/2004 10:02	2.2067	21.764	2.399	0	-0.014	0.003	2.421
8/10/2004 10:02	2.3318	21.906	2.491	-0.002	-0.009	0.003	2.507
8/10/2004 10:02	2.4643	21.741	2.58	-0.002	-0.009	0	2.601

DRAWDOWN PHASE 1 - STOPPED

Date Time MM/DD/YYYY HH:MM	Elapse Time (minutes)	UFA APT Well XD 1 (feet)	UFA OB Well XD 2 (feet)	ICU MON Well XD 4 (feet)	SAS MON Well XD 5 (feet)	ICU APT Well XD 6 (feet)	UFA OB Well (BU) XD 7 (feet)
8/10/2004 10:02	2.6048	21.525	2.667	-0.005	-0.014	0.003	2.688
8/10/2004 10:03	2.7537	21.377	2.753	-0.007	-0.014	0	2.773
8/10/2004 10:03	2.9112	21.471	2.84	-0.007	-0.011	0.003	2.856
8/10/2004 10:03	3.078	21.056	2.92	-0.005	-0.009	0	2.939
8/10/2004 10:03	3.2548	19.599	3.004	-0.005	-0.014	0.003	3.022
8/10/2004 10:03	3.4422	19.79	3.081	-0.002	-0.009	0.003	3.094
8/10/2004 10:03	3.6405	19.963	3.148	-0.005	-0.014	0	3.164
8/10/2004 10:04	3.8507	19.696	3.208	-0.009	-0.014	-0.006	3.221
8/10/2004 10:04	4.0733	19.847	3.268	-0.009	-0.014	-0.006	3.278
8/10/2004 10:04	4.3092	11.35	3.323	-0.009	-0.009	-0.003	3.347
8/10/2004 10:04	4.559	-7.934	3.349	-0.007	-0.005	-0.003	3.352
8/10/2004 10:05	4.8237	2.196	3.133	-0.007	-0.002	-0.006	3.112
8/10/2004 10:05	5.104	5.342	2.661	-0.009	-0.005	-0.006	2.64
8/10/2004 10:05	5.4008	-2.192	2.281	-0.007	-0.002	-0.006	2.264
8/10/2004 10:06	5.7153	3.297	1.941	-0.007	0	-0.006	1.93
8/10/2004 10:06	6.0485	-0.406	1.665	-0.011	-0.005	-0.006	1.655
8/10/2004 10:06	6.4013	1.859	1.443	-0.011	-0.002	-0.003	1.438
8/10/2004 10:07	6.7752	0.246	1.259	-0.016	-0.007	-0.009	1.257
8/10/2004 10:07	7.1712	1.321	1.109	-0.016	-0.009	-0.009	1.108
8/10/2004 10:07	7.5905	0.586	0.994	-0.014	-0.009	-0.009	0.988
8/10/2004 10:08	8.0348	0.858	0.887	-0.009	-0.005	-0.006	0.883
8/10/2004 10:08	8.5055	0.892	0.801	-0.005	-0.002	-0.006	0.798
8/10/2004 10:09	9.004	0.729	0.726	-0.005	0.002	-0.009	0.724
8/10/2004 10:09	9.532	0.758	0.66	-0.005	-0.002	-0.006	0.66
8/10/2004 10:10	10.0913	0.764	0.602	-0.005	0	-0.009	0.601
8/10/2004 10:10	10.6838	0.767	0.553	-0.005	0	-0.006	0.551
8/10/2004 10:11	11.3113	0.721	0.504	-0.014	-0.009	-0.009	0.505
8/10/2004 10:12	11.9762	0.709	0.467	-0.014	-0.009	-0.006	0.466
8/10/2004 10:12	12.6803	0.686	0.426	-0.02	-0.014	-0.006	0.429
8/10/2004 10:13	13.4262	0.692	0.398	-0.014	-0.009	-0.009	0.4
8/10/2004 10:14	14.2162	0.658	0.34	-0.032	-0.025	-0.012	0.354
8/10/2004 10:15	15.053	0.652	0.317	-0.03	-0.023	-0.012	0.328
8/10/2004 10:16	15.9395	0.664	0.291	-0.025	-0.02	-0.014	0.3
8/10/2004 10:17	16.8785	0.652	0.302	-0.016	-0.007	-0.009	0.291
8/10/2004 10:18	17.8732	0.675	0.297	0.011	0.011	-0.006	0.278
8/10/2004 10:19	18.9268	0.661	0.277	0.002	0.009	-0.006	0.262
8/10/2004 10:20	20.0428	0.632	0.248	-0.002	0.005	-0.006	0.245
8/10/2004 10:21	21.225	0.606	0.199	-0.03	-0.02	-0.012	0.212
8/10/2004 10:22	22.4772	0.586	0.19	-0.032	-0.025	-0.012	0.199
8/10/2004 10:24	23.8037	0.589	0.187	-0.027	-0.02	-0.012	0.184
8/10/2004 10:25	25.2087	0.575	0.176	-0.025	-0.018	-0.012	0.173
8/10/2004 10:26	26.697	0.572	0.173	-0.02	-0.014	-0.012	0.16
8/10/2004 10:28	28.2735	0.581	0.164	-0.023	-0.011	-0.012	0.151
8/10/2004 10:30	29.9433	0.586	0.193	0.014	0.018	-0.006	0.164
8/10/2004 10:32	31.7122	0.583	0.176	0.007	0.002	-0.006	0.157
8/10/2004 10:33	33.5858	0.563	0.161	0	-0.002	-0.006	0.155
8/10/2004 10:35	35.5705	0.549	0.147	-0.007	-0.007	-0.006	0.149
8/10/2004 10:37	37.6728	0.535	0.13	-0.011	-0.009	-0.006	0.14
8/10/2004 10:40	39.8997	0.541	0.124	-0.014	-0.005	-0.006	0.133
8/10/2004 10:42	42.2585	0.518	0.115	-0.009	-0.005	-0.009	0.122
8/10/2004 10:45	44.7572	0.515	0.115	-0.009	-0.007	-0.006	0.116
8/10/2004 10:47	47.4038	0.529	0.109	-0.011	-0.007	-0.006	0.105
8/10/2004 10:50	50.2073	0.512	0.109	-0.009	-0.002	-0.012	0.105
8/10/2004 10:53	53.177	0.506	0.092	-0.014	-0.007	-0.009	0.096

DRAWDOWN PHASE 1 - STOPPED

Date Time MM/DD/YYYY HH:MM	Elapse Time (minutes)	UFA APT Well XD 1 (feet)	UFA OB Well XD 2 (feet)	ICU MON Well XD 4 (feet)	SAS MON Well XD 5 (feet)	ICU APT Well XD 6 (feet)	UFA OB Well (BU) XD 7 (feet)
8/10/2004 10:56	56.3227	0.498	0.086	-0.016	-0.016	-0.012	0.09
8/10/2004 10:59	59.6547	0.481	0.075	-0.02	-0.007	-0.009	0.083
8/10/2004 11:03	63.1842	0.489	0.075	-0.014	-0.005	-0.006	0.081

Must add 2 hrs to the time for EST.

In-Situ Inc. Hermit 3000 Logger
ROMP 29A - Sebring Wellsite
Upper Floridan aquifer System Aquifer Performance Test

Reference (@ start)	0	0	0	0	0	0
Pressure @ Reference	2.812	16.415	16.477	18.728	30.066	14.365
Specific Gravity	1	1	1	1	1	1
Linearity	0.1216	0.12	0.0643	0.0666	0.0766	0.1107
Scale	19.6931	19.8408	15.7239	15.5841	19.9206	15.009
Offset	-0.0269	-0.0445	-0.0609	-0.032	0.021	0.1591

DRAWDOWN PHASE 2

Date Time MM/DD/YYYY HH:MM	Elapse Time (minutes)	UFA APT Well XD 1 (feet)	UFA OB Well XD 2 (feet)	ICU MON Well XD 4 (feet)	SAS MON Well XD 5 (feet)	ICU APT Well XD 6 (feet)	UFA OB Well (BU) XD 7 (feet)
8/10/2004 11:05	0	0	0	0	0	0	0
8/10/2004 11:05	0.0382	-0.051	-0.003	0	-0.005	-0.003	0
8/10/2004 11:05	0.0763	1.921	0	-0.002	-0.002	-0.003	0
8/10/2004 11:05	0.1145	6.07	0	0	-0.002	-0.003	0
8/10/2004 11:05	0.1527	13.6	0	-0.005	-0.002	-0.003	0.002
8/10/2004 11:05	0.1908	21.07	0.003	-0.002	-0.005	-0.006	0.004
8/10/2004 11:05	0.229	27.074	0.006	-0.002	-0.007	0	0.009
8/10/2004 11:05	0.2672	27.055	0.012	-0.005	-0.007	-0.003	0.017
8/10/2004 11:05	0.3053	27.055	0.023	-0.002	-0.005	-0.006	0.035
8/10/2004 11:05	0.3435	27.055	0.04	-0.002	-0.005	-0.006	0.057
8/10/2004 11:05	0.3817	27.055	0.066	-0.002	-0.007	-0.003	0.083
8/10/2004 11:05	0.4198	27.057	0.095	-0.002	-0.009	-0.006	0.112
8/10/2004 11:05	0.458	26.964	0.135	0	-0.011	-0.003	0.153
8/10/2004 11:05	0.4962	25.01	0.176	-0.002	-0.016	-0.003	0.203
8/10/2004 11:05	0.5343	21.07	0.228	-0.002	-0.014	-0.009	0.258
8/10/2004 11:05	0.5725	16.366	0.277	-0.009	-0.016	-0.006	0.315
8/10/2004 11:05	0.6107	13.977	0.337	-0.007	-0.011	-0.006	0.372
8/10/2004 11:05	0.6488	13.726	0.398	-0.005	-0.016	-0.006	0.435
8/10/2004 11:05	0.687	15.435	0.458	-0.007	-0.014	-0.006	0.501
8/10/2004 11:05	0.7252	17.198	0.521	-0.007	-0.011	-0.003	0.562
8/10/2004 11:05	0.7633	18.974	0.585	-0.005	-0.016	-0.003	0.623
8/10/2004 11:05	0.8028	20.379	0.654	-0.005	-0.014	-0.003	0.691
8/10/2004 11:05	0.8447	21.065	0.712	-0.002	-0.011	0	0.752
8/10/2004 11:06	0.889	21.451	0.778	0	-0.011	-0.003	0.813
8/10/2004 11:06	0.936	21.332	0.847	0	-0.011	-0.003	0.881
8/10/2004 11:06	0.9858	21.002	0.916	0	-0.014	-0.003	0.947
8/10/2004 11:06	1.0385	20.618	0.985	-0.002	-0.011	-0.006	1.012
8/10/2004 11:06	1.0943	20.379	1.043	0	-0.009	0	1.069
8/10/2004 11:06	1.1535	20.029	1.149	-0.002	-0.009	0	1.174
8/10/2004 11:06	1.2162	19.975	1.233	-0.002	-0.011	0	1.257
8/10/2004 11:06	1.2825	20.018	1.316	-0.005	-0.014	0	1.336
8/10/2004 11:06	1.3528	20.032	1.403	-0.005	-0.016	0	1.423
8/10/2004 11:06	1.4273	20.132	1.492	-0.005	-0.011	-0.003	1.513
8/10/2004 11:06	1.5063	20.228	1.578	-0.005	-0.011	-0.003	1.604
8/10/2004 11:06	1.59	20.171	1.668	-0.002	-0.014	-0.003	1.687
8/10/2004 11:06	1.6785	20.132	1.76	0	-0.011	0	1.779
8/10/2004 11:06	1.7723	20.16	1.849	0	-0.009	-0.003	1.871
8/10/2004 11:07	1.8717	20.197	1.941	-0.002	-0.011	-0.003	1.96
8/10/2004 11:07	1.977	20.231	2.03	0	-0.011	0	2.046
8/10/2004 11:07	2.0885	20.422	2.123	0	-0.009	0.003	2.135
8/10/2004 11:07	2.2067	20.467	2.215	0.002	-0.011	0	2.227
8/10/2004 11:07	2.3318	20.456	2.304	0.007	-0.005	-0.003	2.312
8/10/2004 11:07	2.4643	20.385	2.393	0.007	-0.005	0.003	2.404
8/10/2004 11:07	2.6048	20.544	2.483	0.005	-0.007	0	2.491

DRAWDOWN PHASE 2

Date Time MM/DD/YYYY HH:MM	Elapse Time (minutes)	UFA APT Well XD 1 (feet)	UFA OB Well XD 2 (feet)	ICU MON Well XD 4 (feet)	SAS MON Well XD 5 (feet)	ICU APT Well XD 6 (feet)	UFA OB Well (BU) XD 7 (feet)
8/10/2004 11:07	2.7537	20.575	2.569	0.005	-0.005	0.003	2.574
8/10/2004 11:08	2.9112	20.587	2.655	0.009	-0.002	-0.003	2.666
8/10/2004 11:08	3.078	20.553	2.742	0.009	-0.002	0	2.745
8/10/2004 11:08	3.2548	20.664	2.828	0.011	-0.002	0	2.834
8/10/2004 11:08	3.4422	20.692	2.914	0.014	-0.002	0	2.917
8/10/2004 11:08	3.6405	20.672	2.998	0.014	-0.002	0	3.002
8/10/2004 11:08	3.8507	20.646	3.081	0.009	-0.002	-0.006	3.083
8/10/2004 11:09	4.0733	20.618	3.168	0.007	-0.005	-0.006	3.173
8/10/2004 11:09	4.3092	20.638	3.248	0.009	-0.002	-0.006	3.249
8/10/2004 11:09	4.559	20.553	3.329	0.009	-0.005	-0.006	3.33
8/10/2004 11:09	4.8237	20.584	3.407	0.005	-0.007	-0.006	3.408
8/10/2004 11:10	5.104	20.655	3.49	0.002	-0.007	-0.009	3.5
8/10/2004 11:10	5.4008	20.612	3.571	0.002	-0.009	-0.009	3.579
8/10/2004 11:10	5.7153	20.689	3.651	0.002	-0.002	-0.012	3.655
8/10/2004 11:11	6.0485	20.584	3.729	0	-0.007	-0.012	3.734
8/10/2004 11:11	6.4013	20.638	3.807	0	-0.011	-0.006	3.808
8/10/2004 11:11	6.7752	20.743	3.89	-0.002	-0.011	-0.012	3.891
8/10/2004 11:12	7.1712	20.675	3.965	0.007	-0.005	-0.009	3.972
8/10/2004 11:12	7.5905	20.752	4.04	0.005	-0.007	-0.009	4.046
8/10/2004 11:13	8.0348	20.74	4.12	0	-0.009	-0.012	4.122
8/10/2004 11:13	8.5055	20.658	4.189	-0.005	-0.009	-0.009	4.192
8/10/2004 11:14	9.004	20.683	4.264	-0.002	-0.009	-0.009	4.266
8/10/2004 11:14	9.532	20.735	4.339	0	-0.002	-0.012	4.343
8/10/2004 11:15	10.0913	20.729	4.411	-0.002	-0.007	-0.012	4.417
8/10/2004 11:15	10.6838	20.789	4.486	0.002	-0.005	-0.012	4.491
8/10/2004 11:16	11.3113	20.834	4.558	-0.002	-0.005	-0.012	4.561
8/10/2004 11:17	11.9762	20.797	4.627	0	-0.002	-0.012	4.631
8/10/2004 11:17	12.6803	20.86	4.704	-0.007	-0.007	-0.017	4.705
8/10/2004 11:18	13.4262	20.84	4.771	-0.007	-0.005	-0.012	4.773
8/10/2004 11:19	14.2162	20.888	4.831	0	0	-0.012	4.838
8/10/2004 11:20	15.053	20.823	4.906	-0.005	-0.002	-0.014	4.904
8/10/2004 11:21	15.9395	20.948	4.969	-0.005	-0.005	-0.014	4.973
8/10/2004 11:22	16.8785	20.925	5.032	-0.007	-0.005	-0.017	5.041
8/10/2004 11:23	17.8732	20.922	5.093	-0.023	-0.009	-0.017	5.096
8/10/2004 11:24	18.9268	21.13	5.153	-0.018	-0.007	-0.023	5.165
8/10/2004 11:25	20.0428	20.985	5.219	-0.011	-0.005	-0.02	5.22
8/10/2004 11:26	21.225	21.056	5.274	-0.014	-0.002	-0.02	5.281
8/10/2004 11:27	22.4772	20.948	5.337	-0.016	-0.005	-0.023	5.342
8/10/2004 11:28	23.8037	21.067	5.398	-0.018	-0.007	-0.023	5.401
8/10/2004 11:30	25.2087	21.047	5.447	-0.039	-0.02	-0.026	5.46
8/10/2004 11:31	26.697	21.164	5.524	-0.025	-0.002	-0.029	5.525
8/10/2004 11:33	28.2735	20.996	5.579	-0.02	-0.002	-0.029	5.576
8/10/2004 11:35	29.9433	21.116	5.637	-0.023	0	-0.032	5.639
8/10/2004 11:36	31.7122	21.164	5.694	-0.023	0	-0.029	5.698
8/10/2004 11:38	33.5858	21.198	5.755	-0.027	-0.002	-0.038	5.757
8/10/2004 11:40	35.5705	21.292	5.812	-0.045	-0.009	-0.04	5.813
8/10/2004 11:42	37.6728	21.244	5.861	-0.036	0.005	-0.043	5.87
8/10/2004 11:45	39.8997	21.309	5.921	-0.041	-0.007	-0.043	5.927
8/10/2004 11:47	42.2585	21.23	5.953	-0.077	-0.025	-0.049	5.968
8/10/2004 11:49	44.7572	21.266	6.028	-0.05	0.002	-0.049	6.029
8/10/2004 11:52	47.4038	21.281	6.082	-0.05	0.005	-0.052	6.086
8/10/2004 11:55	50.2073	21.335	6.111	-0.084	-0.025	-0.055	6.13
8/10/2004 11:58	53.177	21.44	6.203	-0.052	0.005	-0.061	6.193
8/10/2004 12:01	56.3227	21.457	6.229	-0.089	-0.018	-0.069	6.228
8/10/2004 12:04	59.6547	21.579	6.336	-0.048	0.02	-0.069	6.304

DRAWDOWN PHASE 2

Date Time MM/DD/YYYY HH:MM	Elapse Time (minutes)	UFA APT Well XD 1 (feet)	UFA OB Well XD 2 (feet)	ICU MON Well XD 4 (feet)	SAS MON Well XD 5 (feet)	ICU APT Well XD 6 (feet)	UFA OB Well (BU) XD 7 (feet)
8/10/2004 12:08	63.1842	21.46	6.353	-0.066	0.005	-0.072	6.358
8/10/2004 12:12	66.9227	21.591	6.408	-0.075	0.007	-0.078	6.42
8/10/2004 12:16	70.8828	21.616	6.456	-0.093	-0.002	-0.081	6.47
8/10/2004 12:20	75.0777	21.562	6.514	-0.098	-0.007	-0.089	6.52
8/10/2004 12:24	79.521	21.648	6.557	-0.107	-0.005	-0.095	6.572
8/10/2004 12:29	84.2277	21.659	6.6	-0.132	-0.016	-0.107	6.596
8/10/2004 12:34	89.2132	21.807	6.695	-0.102	0.018	-0.107	6.672
8/10/2004 12:39	94.2132	21.673	6.727	-0.141	-0.014	-0.115	6.718
8/10/2004 12:44	99.2132	21.795	6.77	-0.13	0.002	-0.121	6.773
8/10/2004 12:49	104.2132	21.756	6.755	-0.184	-0.036	-0.133	6.786
8/10/2004 12:54	109.2132	21.849	6.859	-0.139	0.007	-0.136	6.845
8/10/2004 12:59	114.2132	21.895	6.899	-0.152	0.007	-0.141	6.888
8/10/2004 13:04	119.2132	21.818	6.928	-0.18	-0.007	-0.15	6.936
8/10/2004 13:09	124.2132	21.835	6.96	-0.18	-0.005	-0.156	6.967
8/10/2004 13:14	129.2132	21.881	6.986	-0.2	-0.014	-0.164	6.989
8/10/2004 13:19	134.2132	21.946	7.017	-0.202	-0.007	-0.167	7.021
8/10/2004 13:24	139.2132	21.886	7.046	-0.221	-0.009	-0.182	7.05
8/10/2004 13:29	144.2132	21.997	7.086	-0.218	-0.009	-0.188	7.091
8/10/2004 13:34	149.2132	21.966	7.118	-0.232	-0.011	-0.199	7.115
8/10/2004 13:39	154.2132	22.014	7.144	-0.234	-0.007	-0.199	7.148
8/10/2004 13:44	159.2132	22.009	7.172	-0.246	-0.011	-0.208	7.172
8/10/2004 13:49	164.2132	21.997	7.201	-0.257	-0.011	-0.219	7.2
8/10/2004 13:54	169.2132	22.014	7.233	-0.266	-0.014	-0.222	7.235
8/10/2004 13:59	174.2132	22.046	7.256	-0.271	-0.014	-0.231	7.259
8/10/2004 14:04	179.2132	22	7.285	-0.28	-0.014	-0.231	7.287
8/10/2004 14:09	184.2132	22.054	7.305	-0.293	-0.016	-0.242	7.307
8/10/2004 14:14	189.2132	22.171	7.331	-0.305	-0.016	-0.254	7.329
8/10/2004 14:19	194.2132	22.179	7.365	-0.305	-0.011	-0.26	7.361
8/10/2004 14:24	199.2132	22.023	7.388	-0.314	-0.011	-0.266	7.383
8/10/2004 14:29	204.2132	22.114	7.411	-0.328	-0.016	-0.274	7.409
8/10/2004 14:34	209.2132	22.134	7.437	-0.328	-0.016	-0.277	7.433
8/10/2004 14:39	214.2132	22.105	7.46	-0.341	-0.016	-0.289	7.459
8/10/2004 14:44	219.2132	22.142	7.489	-0.348	-0.016	-0.291	7.486
8/10/2004 14:49	224.2132	22.199	7.52	-0.341	-0.009	-0.294	7.51
8/10/2004 14:54	229.2132	22.228	7.532	-0.357	-0.014	-0.3	7.529
8/10/2004 14:59	234.2132	22.137	7.549	-0.364	-0.011	-0.312	7.549
8/10/2004 15:04	239.2132	22.182	7.569	-0.38	-0.014	-0.317	7.573
8/10/2004 15:09	244.2132	22.171	7.592	-0.382	-0.014	-0.32	7.588
8/10/2004 15:14	249.2132	22.196	7.607	-0.394	-0.016	-0.329	7.603
8/10/2004 15:19	254.2132	22.213	7.621	-0.403	-0.016	-0.335	7.623
8/10/2004 15:24	259.2132	22.205	7.644	-0.407	-0.016	-0.338	7.64
8/10/2004 15:29	264.2132	22.336	7.656	-0.421	-0.023	-0.355	7.656
8/10/2004 15:34	269.2132	22.856	7.768	-0.43	-0.018	-0.364	7.76
8/10/2004 15:39	274.2132	22.893	7.808	-0.43	-0.018	-0.369	7.797
8/10/2004 15:44	279.2132	22.924	7.842	-0.435	-0.018	-0.367	7.83
8/10/2004 15:49	284.2132	22.933	7.865	-0.444	-0.018	-0.378	7.856
8/10/2004 15:54	289.2132	23.035	7.888	-0.453	-0.018	-0.387	7.882
8/10/2004 15:59	294.2132	22.907	7.914	-0.457	-0.023	-0.387	7.911
8/10/2004 16:04	299.2132	22.921	7.937	-0.462	-0.018	-0.395	7.935
8/10/2004 16:09	304.2132	23.066	7.955	-0.471	-0.02	-0.398	7.952
8/10/2004 16:14	309.2132	22.984	7.972	-0.475	-0.02	-0.404	7.974
8/10/2004 16:19	314.2132	23.143	7.998	-0.48	-0.016	-0.413	7.996
8/10/2004 16:24	319.2132	22.992	8.006	-0.494	-0.025	-0.416	8.009
8/10/2004 16:29	324.2132	22.881	8.024	-0.491	-0.023	-0.418	8.028
8/10/2004 16:34	329.2132	23.092	8.038	-0.498	-0.023	-0.427	8.039

DRAWDOWN PHASE 2

Date Time MM/DD/YYYY HH:MM	Elapse Time (minutes)	UFA APT Well XD 1 (feet)	UFA OB Well XD 2 (feet)	ICU MON Well XD 4 (feet)	SAS MON Well XD 5 (feet)	ICU APT Well XD 6 (feet)	UFA OB Well (BU) XD 7 (feet)
8/10/2004 16:39	334.2132	23.069	8.055	-0.507	-0.02	-0.433	8.057
8/10/2004 16:44	339.2132	23.029	8.072	-0.512	-0.018	-0.444	8.072
8/10/2004 16:49	344.2132	23.055	8.084	-0.521	-0.02	-0.45	8.087
8/10/2004 16:54	349.2132	22.984	8.098	-0.526	-0.025	-0.45	8.1
8/10/2004 16:59	354.2132	23.171	8.116	-0.532	-0.02	-0.459	8.113
8/10/2004 17:04	359.2132	22.975	8.127	-0.541	-0.023	-0.468	8.124
8/10/2004 17:09	364.2132	23.077	8.139	-0.544	-0.025	-0.468	8.135
8/10/2004 17:14	369.2132	22.992	8.153	-0.551	-0.025	-0.476	8.152
8/10/2004 17:19	374.2132	23.194	8.173	-0.553	-0.023	-0.479	8.172
8/10/2004 17:24	379.2132	23.171	8.182	-0.562	-0.02	-0.485	8.179
8/10/2004 17:29	384.2132	23.058	8.202	-0.569	-0.025	-0.494	8.198
8/10/2004 17:34	389.2132	23.203	8.222	-0.576	-0.023	-0.499	8.222
8/10/2004 17:39	394.2132	23.214	8.239	-0.582	-0.023	-0.502	8.24
8/10/2004 17:44	399.2132	23.188	8.256	-0.589	-0.025	-0.508	8.255
8/10/2004 17:49	404.2132	23.313	8.276	-0.592	-0.025	-0.514	8.277
8/10/2004 17:54	409.2132	23.208	8.299	-0.598	-0.025	-0.517	8.296
8/10/2004 17:59	414.2132	23.234	8.317	-0.605	-0.025	-0.519	8.316
8/10/2004 18:04	419.2132	23.143	8.331	-0.61	-0.029	-0.528	8.331
8/10/2004 18:09	424.2132	23.265	8.348	-0.614	-0.027	-0.531	8.349
8/10/2004 18:14	429.2132	23.35	8.363	-0.619	-0.025	-0.537	8.366
8/10/2004 18:19	434.2132	23.322	8.383	-0.621	-0.029	-0.543	8.379
8/10/2004 18:24	439.2132	23.285	8.391	-0.63	-0.027	-0.545	8.392
8/10/2004 18:29	444.2132	23.257	8.403	-0.632	-0.029	-0.551	8.405
8/10/2004 18:34	449.2132	23.424	8.42	-0.637	-0.027	-0.563	8.42
8/10/2004 18:39	454.2132	23.291	8.432	-0.646	-0.029	-0.563	8.434
8/10/2004 18:44	459.2132	23.427	8.44	-0.644	-0.025	-0.569	8.442
8/10/2004 18:49	464.2132	23.237	8.446	-0.651	-0.027	-0.574	8.444
8/10/2004 18:54	469.2132	23.35	8.458	-0.658	-0.032	-0.577	8.455
8/10/2004 18:59	474.2132	23.37	8.475	-0.662	-0.029	-0.58	8.473
8/10/2004 19:04	479.2132	23.424	8.489	-0.664	-0.029	-0.586	8.484
8/10/2004 19:09	484.2132	23.495	8.501	-0.671	-0.027	-0.592	8.503
8/10/2004 19:14	489.2132	23.47	8.518	-0.673	-0.027	-0.597	8.519
8/10/2004 19:19	494.2132	23.475	8.535	-0.678	-0.027	-0.6	8.536
8/10/2004 19:24	499.2132	23.436	8.55	-0.683	-0.032	-0.603	8.547
8/10/2004 19:29	504.2132	23.384	8.561	-0.687	-0.029	-0.612	8.562
8/10/2004 19:34	509.2132	23.393	8.573	-0.694	-0.032	-0.615	8.573
8/10/2004 19:39	514.2132	23.527	8.59	-0.694	-0.027	-0.62	8.59
8/10/2004 19:44	519.2132	23.512	8.601	-0.703	-0.029	-0.623	8.603
8/10/2004 19:49	524.2132	23.558	8.613	-0.703	-0.029	-0.629	8.614
8/10/2004 19:54	529.2132	23.47	8.621	-0.714	-0.029	-0.632	8.621
8/10/2004 19:59	534.2132	23.478	8.636	-0.717	-0.029	-0.638	8.634
8/10/2004 20:04	539.2132	23.41	8.65	-0.717	-0.032	-0.638	8.651
8/10/2004 20:09	544.2132	23.419	8.659	-0.719	-0.032	-0.644	8.658
8/10/2004 20:14	549.2132	23.595	8.665	-0.728	-0.036	-0.646	8.667
8/10/2004 20:19	554.2132	23.635	8.679	-0.728	-0.032	-0.649	8.68
8/10/2004 20:24	559.2132	23.609	8.69	-0.733	-0.032	-0.655	8.693
8/10/2004 20:29	564.2132	23.632	8.702	-0.735	-0.029	-0.661	8.704
8/10/2004 20:34	569.2132	23.566	8.713	-0.742	-0.032	-0.664	8.715
8/10/2004 20:39	574.2132	23.612	8.725	-0.742	-0.034	-0.667	8.725
8/10/2004 20:44	579.2132	23.646	8.736	-0.749	-0.032	-0.672	8.739
8/10/2004 20:49	584.2132	23.74	8.748	-0.751	-0.029	-0.675	8.754
8/10/2004 20:54	589.2132	23.643	8.762	-0.758	-0.034	-0.678	8.765
8/10/2004 20:59	594.2132	23.72	8.78	-0.758	-0.032	-0.684	8.78
8/10/2004 21:04	599.2132	23.603	8.794	-0.76	-0.034	-0.684	8.793
8/10/2004 21:09	604.2132	23.743	8.803	-0.762	-0.034	-0.696	8.808

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Date Time MM/DD/YYYY HH:MM	Elapse Time (minutes)	UFA APT Well XD 1 (feet)	UFA OB Well XD 2 (feet)	ICU MON Well XD 4 (feet)	SAS MON Well XD 5 (feet)	ICU APT Well XD 6 (feet)	UFA OB Well (BU) XD 7 (feet)
8/10/2004 21:14	609.2132	23.652	8.811	-0.764	-0.036	-0.693	8.815
8/10/2004 21:19	614.2132	23.68	8.826	-0.771	-0.034	-0.698	8.826
8/10/2004 21:24	619.2132	23.737	8.837	-0.771	-0.036	-0.701	8.837
8/10/2004 21:29	624.2132	23.802	8.843	-0.778	-0.032	-0.71	8.843
8/10/2004 21:34	629.2132	23.649	8.851	-0.783	-0.036	-0.71	8.85
8/10/2004 21:39	634.2132	23.805	8.86	-0.78	-0.034	-0.716	8.863
8/10/2004 21:44	639.2132	23.711	8.872	-0.787	-0.036	-0.719	8.871
8/10/2004 21:49	644.2132	23.788	8.877	-0.792	-0.034	-0.724	8.878
8/10/2004 21:54	649.2132	23.731	8.889	-0.794	-0.038	-0.722	8.889
8/10/2004 21:59	654.2132	23.711	8.897	-0.799	-0.038	-0.727	8.898
8/10/2004 22:04	659.2132	23.799	8.903	-0.799	-0.034	-0.733	8.904
8/10/2004 22:09	664.2132	23.714	8.909	-0.803	-0.038	-0.736	8.911
8/10/2004 22:14	669.2132	23.816	8.938	-0.808	-0.036	-0.739	8.937
8/10/2004 22:19	674.2132	23.771	8.958	-0.81	-0.036	-0.745	8.959
8/10/2004 22:24	679.2132	23.976	8.972	-0.814	-0.036	-0.747	8.974
8/10/2004 22:29	684.2132	23.893	8.989	-0.812	-0.036	-0.75	8.991
8/10/2004 22:34	689.2132	23.797	9.004	-0.817	-0.043	-0.75	9.006
8/10/2004 22:39	694.2132	23.873	9.024	-0.817	-0.041	-0.753	9.022
8/10/2004 22:44	699.2132	23.882	9.035	-0.824	-0.041	-0.756	9.037
8/10/2004 22:49	704.2132	24.024	9.05	-0.821	-0.038	-0.762	9.054
8/10/2004 22:54	709.2132	23.964	9.064	-0.826	-0.038	-0.768	9.067
8/10/2004 22:59	714.2132	23.967	9.076	-0.828	-0.041	-0.768	9.081
8/10/2004 23:04	719.2132	24.041	9.093	-0.83	-0.041	-0.776	9.091
8/10/2004 23:09	724.2132	24.015	9.107	-0.835	-0.041	-0.776	9.107
8/10/2004 23:14	729.2132	23.947	9.119	-0.837	-0.043	-0.776	9.118
8/10/2004 23:19	734.2132	24.015	9.124	-0.844	-0.043	-0.782	9.126
8/10/2004 23:24	739.2132	24.015	9.136	-0.846	-0.043	-0.785	9.139
8/10/2004 23:29	744.2132	23.984	9.145	-0.851	-0.045	-0.788	9.15
8/10/2004 23:34	749.2132	23.939	9.159	-0.846	-0.041	-0.791	9.161
8/10/2004 23:39	754.2132	23.967	9.17	-0.853	-0.045	-0.797	9.174
8/10/2004 23:44	759.2132	24.038	9.182	-0.853	-0.047	-0.797	9.183
8/10/2004 23:49	764.2132	23.947	9.191	-0.858	-0.043	-0.805	9.194
8/10/2004 23:54	769.2132	24.024	9.202	-0.858	-0.047	-0.805	9.203
8/10/2004 23:59	774.2132	24.075	9.214	-0.862	-0.045	-0.805	9.216
8/11/2004 0:04	779.2132	24.089	9.225	-0.865	-0.041	-0.811	9.226
8/11/2004 0:09	784.2132	24.061	9.231	-0.867	-0.038	-0.817	9.233
8/11/2004 0:14	789.2132	24.069	9.225	-0.869	-0.041	-0.817	9.224
8/11/2004 0:19	794.2132	24.03	9.222	-0.876	-0.043	-0.82	9.22
8/11/2004 0:24	799.2132	24.047	9.216	-0.874	-0.045	-0.823	9.218
8/11/2004 0:29	804.2132	23.995	9.216	-0.876	-0.038	-0.831	9.216
8/11/2004 0:34	809.2132	23.941	9.216	-0.88	-0.043	-0.825	9.22
8/11/2004 0:39	814.2132	23.976	9.216	-0.885	-0.043	-0.828	9.218
8/11/2004 0:44	819.2132	24.055	9.219	-0.883	-0.043	-0.837	9.22
8/11/2004 0:49	824.2132	23.995	9.225	-0.892	-0.038	-0.843	9.226
8/11/2004 0:54	829.2132	24.027	9.228	-0.894	-0.038	-0.843	9.229
8/11/2004 0:59	834.2132	23.93	9.234	-0.894	-0.041	-0.846	9.235
8/11/2004 1:04	839.2132	23.93	9.239	-0.894	-0.036	-0.849	9.242
8/11/2004 1:09	844.2132	24.024	9.254	-0.899	-0.047	-0.851	9.253
8/11/2004 1:14	849.2132	24.055	9.274	-0.901	-0.041	-0.854	9.272
8/11/2004 1:19	854.2132	24.049	9.294	-0.901	-0.041	-0.857	9.296
8/11/2004 1:24	859.2132	24.061	9.311	-0.906	-0.043	-0.863	9.314
8/11/2004 1:29	864.2132	24.143	9.326	-0.908	-0.045	-0.863	9.327
8/11/2004 1:34	869.2132	24.112	9.343	-0.91	-0.047	-0.866	9.344
8/11/2004 1:39	874.2132	24.163	9.357	-0.91	-0.045	-0.863	9.362
8/11/2004 1:44	879.2132	24.243	9.372	-0.915	-0.043	-0.877	9.375

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Date Time MM/DD/YYYY HH:MM	Elapse Time (minutes)	UFA APT Well XD 1 (feet)	UFA OB Well XD 2 (feet)	ICU MON Well XD 4 (feet)	SAS MON Well XD 5 (feet)	ICU APT Well XD 6 (feet)	UFA OB Well (BU) XD 7 (feet)
8/11/2004 1:49	884.2132	24.197	9.383	-0.915	-0.045	-0.872	9.385
8/11/2004 1:54	889.2132	24.322	9.4	-0.919	-0.045	-0.877	9.399
8/11/2004 1:59	894.2132	24.285	9.412	-0.919	-0.043	-0.88	9.414
8/11/2004 2:04	899.2132	24.359	9.42	-0.924	-0.045	-0.883	9.425
8/11/2004 2:09	904.2132	24.226	9.435	-0.921	-0.043	-0.883	9.44
8/11/2004 2:14	909.2132	24.308	9.449	-0.924	-0.043	-0.886	9.451
8/11/2004 2:19	914.2132	24.234	9.461	-0.928	-0.045	-0.886	9.457
8/11/2004 2:24	919.2132	24.226	9.466	-0.931	-0.045	-0.889	9.473
8/11/2004 2:29	924.2132	24.228	9.478	-0.933	-0.043	-0.895	9.479
8/11/2004 2:34	929.2132	24.302	9.487	-0.933	-0.045	-0.895	9.488
8/11/2004 2:39	934.2132	24.39	9.498	-0.933	-0.045	-0.895	9.499
8/11/2004 2:44	939.2132	24.26	9.51	-0.94	-0.045	-0.898	9.507
8/11/2004 2:49	944.2132	24.291	9.518	-0.937	-0.047	-0.903	9.516
8/11/2004 2:54	949.2132	24.311	9.533	-0.942	-0.045	-0.903	9.529
8/11/2004 2:59	954.2132	24.234	9.541	-0.942	-0.045	-0.909	9.54
8/11/2004 3:04	959.2132	24.422	9.547	-0.942	-0.043	-0.912	9.549
8/11/2004 3:09	964.2132	24.331	9.553	-0.944	-0.045	-0.912	9.558
8/11/2004 3:14	969.2132	24.274	9.547	-0.946	-0.045	-0.912	9.551
8/11/2004 3:19	974.2132	24.282	9.544	-0.951	-0.047	-0.915	9.544
8/11/2004 3:24	979.2132	24.373	9.544	-0.951	-0.052	-0.915	9.544
8/11/2004 3:29	984.2132	24.206	9.538	-0.951	-0.05	-0.921	9.542
8/11/2004 3:34	989.2132	24.285	9.541	-0.953	-0.052	-0.921	9.542
8/11/2004 3:39	994.2132	24.234	9.541	-0.953	-0.05	-0.924	9.54
8/11/2004 3:44	999.2132	24.248	9.538	-0.956	-0.05	-0.929	9.54
8/11/2004 3:49	1004.2132	24.228	9.544	-0.96	-0.052	-0.926	9.542
8/11/2004 3:54	1009.2132	24.319	9.541	-0.958	-0.052	-0.932	9.544
8/11/2004 3:59	1014.2132	24.217	9.547	-0.962	-0.05	-0.932	9.547
8/11/2004 4:04	1019.2132	24.228	9.553	-0.965	-0.054	-0.932	9.553
8/11/2004 4:09	1024.2132	24.254	9.556	-0.96	-0.052	-0.935	9.555
8/11/2004 4:14	1029.2132	24.248	9.556	-0.967	-0.052	-0.935	9.555
8/11/2004 4:19	1034.2132	24.254	9.561	-0.965	-0.052	-0.938	9.564
8/11/2004 4:24	1039.2132	24.336	9.564	-0.971	-0.052	-0.941	9.566
8/11/2004 4:29	1044.2132	24.28	9.573	-0.967	-0.054	-0.941	9.571
8/11/2004 4:34	1049.2132	24.223	9.573	-0.969	-0.059	-0.941	9.575
8/11/2004 4:39	1054.2132	24.263	9.578	-0.976	-0.056	-0.947	9.581
8/11/2004 4:44	1059.2132	24.379	9.587	-0.969	-0.054	-0.952	9.59
8/11/2004 4:49	1064.2132	24.274	9.596	-0.974	-0.052	-0.955	9.595
8/11/2004 4:54	1069.2132	24.427	9.607	-0.974	-0.054	-0.952	9.605
8/11/2004 4:59	1074.2132	24.328	9.61	-0.976	-0.054	-0.958	9.612
8/11/2004 5:04	1079.2132	24.271	9.624	-0.978	-0.054	-0.955	9.623
8/11/2004 5:09	1084.2132	24.422	9.63	-0.978	-0.056	-0.958	9.629
8/11/2004 5:14	1089.2132	24.319	9.639	-0.981	-0.054	-0.955	9.642
8/11/2004 5:19	1094.2132	24.359	9.647	-0.976	-0.056	-0.958	9.649
8/11/2004 5:24	1099.2132	24.424	9.662	-0.974	-0.054	-0.955	9.658
8/11/2004 5:29	1104.2132	24.436	9.665	-0.976	-0.056	-0.961	9.666
8/11/2004 5:34	1109.2132	24.305	9.668	-0.981	-0.059	-0.958	9.669
8/11/2004 5:39	1114.2132	24.263	9.673	-0.978	-0.056	-0.964	9.675
8/11/2004 5:44	1119.2132	24.299	9.679	-0.976	-0.054	-0.967	9.684
8/11/2004 5:49	1124.2132	24.257	9.685	-0.981	-0.059	-0.964	9.688
8/11/2004 5:54	1129.2132	24.362	9.693	-0.976	-0.059	-0.967	9.695
8/11/2004 5:59	1134.2132	24.427	9.702	-0.981	-0.059	-0.967	9.708
8/11/2004 6:04	1139.2132	24.356	9.705	-0.981	-0.054	-0.97	9.71
8/11/2004 6:09	1144.2132	24.464	9.716	-0.976	-0.054	-0.97	9.721
8/11/2004 6:14	1149.2132	24.368	9.719	-0.978	-0.059	-0.967	9.725
8/11/2004 6:19	1154.2132	24.504	9.731	-0.974	-0.056	-0.973	9.736

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Date Time MM/DD/YYYY HH:MM	Elapse Time (minutes)	UFA APT Well XD 1 (feet)	UFA OB Well XD 2 (feet)	ICU MON Well XD 4 (feet)	SAS MON Well XD 5 (feet)	ICU APT Well XD 6 (feet)	UFA OB Well (BU) XD 7 (feet)
8/11/2004 6:24	1159.2132	24.393	9.734	-0.978	-0.054	-0.973	9.738
8/11/2004 6:29	1164.2132	24.513	9.737	-0.974	-0.059	-0.973	9.743
8/11/2004 6:34	1169.2132	24.345	9.742	-0.978	-0.059	-0.975	9.747
8/11/2004 6:39	1174.2132	24.382	9.748	-0.981	-0.061	-0.973	9.754
8/11/2004 6:44	1179.2132	24.353	9.76	-0.969	-0.052	-0.973	9.76
8/11/2004 6:49	1184.2132	24.39	9.76	-0.978	-0.061	-0.973	9.762
8/11/2004 6:54	1189.2132	24.467	9.768	-0.974	-0.061	-0.973	9.771
8/11/2004 6:59	1194.2132	24.342	9.774	-0.981	-0.059	-0.978	9.78
8/11/2004 7:04	1199.2132	24.424	9.78	-0.976	-0.059	-0.975	9.784
8/11/2004 7:09	1204.2132	24.399	9.788	-0.978	-0.059	-0.975	9.791
8/11/2004 7:14	1209.2132	24.461	9.797	-0.978	-0.056	-0.981	9.799
8/11/2004 7:19	1214.2132	24.484	9.803	-0.981	-0.059	-0.981	9.81
8/11/2004 7:24	1219.2132	24.422	9.803	-0.974	-0.059	-0.978	9.81
8/11/2004 7:29	1224.2132	24.356	9.814	-0.974	-0.059	-0.984	9.821
8/11/2004 7:34	1229.2132	24.362	9.814	-0.976	-0.059	-0.981	9.821
8/11/2004 7:39	1234.2132	24.43	9.823	-0.974	-0.056	-0.981	9.828
8/11/2004 7:44	1239.2132	24.376	9.831	-0.976	-0.059	-0.978	9.834
8/11/2004 7:49	1244.2132	24.422	9.831	-0.978	-0.063	-0.984	9.836
8/11/2004 7:54	1249.2132	24.43	9.84	-0.978	-0.061	-0.987	9.845
8/11/2004 7:59	1254.2132	24.396	9.846	-0.974	-0.059	-0.984	9.847
8/11/2004 8:04	1259.2132	24.476	9.851	-0.978	-0.059	-0.987	9.849
8/11/2004 8:09	1264.2132	24.447	9.854	-0.971	-0.056	-0.984	9.858
8/11/2004 8:14	1269.2132	24.473	9.857	-0.971	-0.056	-0.984	9.858
8/11/2004 8:19	1274.2132	24.47	9.863	-0.974	-0.056	-0.99	9.867
8/11/2004 8:24	1279.2132	24.376	9.863	-0.971	-0.061	-0.99	9.867
8/11/2004 8:29	1284.2132	24.39	9.863	-0.976	-0.061	-0.99	9.871
8/11/2004 8:34	1289.2132	24.311	9.872	-0.981	-0.061	-0.99	9.873
8/11/2004 8:39	1294.2132	24.405	9.869	-0.981	-0.065	-0.984	9.878
8/11/2004 8:44	1299.2132	24.405	9.877	-0.969	-0.059	-0.987	9.882
8/11/2004 8:49	1304.2132	24.319	9.88	-0.974	-0.056	-0.99	9.886
8/11/2004 8:54	1309.2132	24.45	9.889	-0.965	-0.05	-0.99	9.889
8/11/2004 8:59	1314.2132	24.407	9.883	-0.978	-0.068	-0.987	9.886
8/11/2004 9:04	1319.2132	24.356	9.886	-0.976	-0.068	-0.99	9.889
8/11/2004 9:09	1324.2132	24.41	9.895	-0.971	-0.061	-0.987	9.897
8/11/2004 9:14	1329.2132	24.382	9.886	-0.971	-0.061	-0.987	9.893
8/11/2004 9:19	1334.2132	24.45	9.9	-0.969	-0.063	-0.987	9.902
8/11/2004 9:24	1339.2132	24.379	9.88	-0.978	-0.063	-0.996	9.893
8/11/2004 9:29	1344.2132	24.356	9.912	-0.969	-0.061	-0.99	9.91
8/11/2004 9:34	1349.2132	24.382	9.918	-0.971	-0.063	-0.99	9.919
8/11/2004 9:39	1354.2132	24.368	9.915	-0.976	-0.065	-0.996	9.915
8/11/2004 9:44	1359.2132	24.373	9.92	-0.969	-0.056	-0.987	9.923
8/11/2004 9:49	1364.2132	24.402	9.92	-0.967	-0.061	-0.993	9.923
8/11/2004 9:54	1369.2132	24.393	9.92	-0.969	-0.061	-0.996	9.93
8/11/2004 9:59	1374.2132	24.43	9.929	-0.978	-0.077	-0.996	9.923
8/11/2004 10:04	1379.2132	24.481	9.935	-0.967	-0.068	-0.993	9.936
8/11/2004 10:09	1384.2132	24.388	9.952	-0.956	-0.054	-0.996	9.939
8/11/2004 10:14	1389.2132	24.478	9.943	-0.96	-0.059	-0.996	9.945
8/11/2004 10:19	1394.2132	24.407	9.935	-0.971	-0.068	-0.996	9.941
8/11/2004 10:24	1399.2132	24.447	9.915	-0.992	-0.081	-0.999	9.921
8/11/2004 10:29	1404.2132	24.49	9.984	-0.937	-0.043	-0.996	9.954
8/11/2004 10:34	1409.2132	24.379	9.912	-0.99	-0.083	-1.001	9.926
8/11/2004 10:39	1414.2132	24.388	9.975	-0.958	-0.059	-0.996	9.958
8/11/2004 10:44	1419.2132	24.419	9.941	-0.969	-0.065	-0.999	9.939
8/11/2004 10:49	1424.2132	24.444	9.938	-0.965	-0.068	-0.999	9.939
8/11/2004 10:54	1429.2132	24.382	9.975	-0.953	-0.059	-0.999	9.971

DRAWDOWN PHASE 2

Date Time MM/DD/YYYY HH:MM	Elapse Time (minutes)	UFA APT Well XD 1 (feet)	UFA OB Well XD 2 (feet)	ICU MON Well XD 4 (feet)	SAS MON Well XD 5 (feet)	ICU APT Well XD 6 (feet)	UFA OB Well (BU) XD 7 (feet)
8/11/2004 10:59	1434.2132	24.473	9.952	-0.976	-0.072	-0.999	9.963
8/11/2004 11:04	1439.2132	24.39	9.969	-0.971	-0.072	-0.999	9.973
8/11/2004 11:09	1444.2132	24.373	9.955	-0.974	-0.074	-0.999	9.965
8/11/2004 11:14	1449.2132	24.444	9.943	-0.981	-0.083	-1.001	9.96
8/11/2004 11:19	1454.2132	24.527	9.987	-0.94	-0.05	-0.996	9.978
8/11/2004 11:24	1459.2132	24.427	9.978	-0.971	-0.074	-1.001	9.982
8/11/2004 11:29	1464.2132	24.419	9.987	-0.967	-0.065	-1.001	9.982
8/11/2004 11:34	1469.2132	24.442	9.952	-0.99	-0.09	-1.004	9.963
8/11/2004 11:39	1474.2132	24.407	9.972	-0.981	-0.077	-1.01	9.965
8/11/2004 11:44	1479.2132	24.442	10.004	-0.956	-0.059	-1.004	9.995
8/11/2004 11:49	1484.2132	24.379	9.987	-0.967	-0.068	-1.004	9.991
8/11/2004 11:54	1489.2132	24.382	10.001	-0.946	-0.05	-1.004	9.986
8/11/2004 11:59	1494.2132	24.402	9.992	-0.962	-0.068	-1.001	9.995
8/11/2004 12:04	1499.2132	24.379	9.995	-0.96	-0.068	-1.001	10
8/11/2004 12:09	1504.2132	24.453	9.995	-0.96	-0.07	-0.999	9.995
8/11/2004 12:14	1509.2132	24.439	9.995	-0.96	-0.065	-0.999	10
8/11/2004 12:19	1514.2132	24.399	9.984	-0.965	-0.074	-1.001	9.991
8/11/2004 12:24	1519.2132	24.453	10.001	-0.965	-0.068	-1.004	10
8/11/2004 12:29	1524.2132	24.501	9.995	-0.967	-0.072	-1.007	9.995
8/11/2004 12:34	1529.2132	24.334	9.995	-0.974	-0.077	-1.01	10.002
8/11/2004 12:39	1534.2132	24.422	9.998	-0.971	-0.074	-1.007	10
8/11/2004 12:44	1539.2132	24.447	10.001	-0.962	-0.072	-1.001	10.004
8/11/2004 12:49	1544.2132	24.373	9.961	-0.999	-0.097	-1.016	9.973
8/11/2004 12:54	1549.2132	24.493	10.007	-0.971	-0.079	-1.01	9.989
8/11/2004 12:59	1554.2132	24.41	9.992	-0.99	-0.093	-1.007	10.002
8/11/2004 13:04	1559.2132	24.453	10.015	-0.978	-0.081	-1.013	10.004
8/11/2004 13:09	1564.2132	24.447	10.053	-0.946	-0.054	-1.001	10.039
8/11/2004 13:14	1569.2132	24.376	10.024	-0.967	-0.077	-1.004	10.037
8/11/2004 13:19	1574.2132	24.399	10.03	-0.958	-0.063	-1.004	10.032
8/11/2004 13:24	1579.2132	24.351	10.033	-0.962	-0.065	-1.007	10.03
8/11/2004 13:29	1584.2132	24.385	10.03	-0.962	-0.065	-1.007	10.032
8/11/2004 13:34	1589.2132	24.393	10.03	-0.976	-0.083	-1.01	10.03
8/11/2004 13:39	1594.2132	24.436	10.03	-0.969	-0.074	-1.007	10.032
8/11/2004 13:44	1599.2132	24.37	9.995	-1.006	-0.104	-1.016	10.008
8/11/2004 13:49	1604.2132	24.496	10.055	-0.953	-0.063	-1.007	10.037
8/11/2004 13:54	1609.2132	24.382	10.035	-0.969	-0.072	-1.01	10.039
8/11/2004 13:59	1614.2132	24.49	10.058	-0.951	-0.059	-1.01	10.043
8/11/2004 14:04	1619.2132	24.456	10.033	-0.981	-0.081	-1.022	10.026
8/11/2004 14:09	1624.2132	24.442	10.067	-0.956	-0.065	-1.007	10.052
8/11/2004 14:14	1629.2132	24.376	10.035	-0.983	-0.086	-1.019	10.043
8/11/2004 14:19	1634.2132	24.422	10.047	-0.976	-0.074	-1.019	10.043
8/11/2004 14:24	1639.2132	24.478	10.05	-0.969	-0.077	-1.013	10.054
8/11/2004 14:29	1644.2132	24.496	10.053	-0.981	-0.079	-1.016	10.056
8/11/2004 14:34	1649.2132	24.424	10.061	-0.967	-0.074	-1.019	10.063
8/11/2004 14:39	1654.2132	24.424	10.064	-0.976	-0.074	-1.019	10.065
8/11/2004 14:44	1659.2132	24.43	10.061	-0.976	-0.077	-1.019	10.065
8/11/2004 14:49	1664.2132	24.527	10.064	-0.976	-0.077	-1.019	10.067
8/11/2004 14:54	1669.2132	24.464	10.055	-0.978	-0.081	-1.022	10.058
8/11/2004 14:59	1674.2132	24.473	10.067	-0.981	-0.081	-1.019	10.069
8/11/2004 15:04	1679.2132	24.478	10.07	-0.976	-0.077	-1.016	10.074
8/11/2004 15:09	1684.2132	24.43	10.073	-0.974	-0.079	-1.016	10.069
8/11/2004 15:14	1689.2132	24.439	10.073	-0.971	-0.079	-1.016	10.076
8/11/2004 15:19	1694.2132	24.424	10.07	-0.978	-0.081	-1.022	10.071
8/11/2004 15:24	1699.2132	24.444	10.076	-0.978	-0.079	-1.022	10.076
8/11/2004 15:29	1704.2132	24.515	10.081	-0.974	-0.077	-1.016	10.084

DRAWDOWN PHASE 2

Date Time MM/DD/YYYY HH:MM	Elapse Time (minutes)	UFA APT Well XD 1 (feet)	UFA OB Well XD 2 (feet)	ICU MON Well XD 4 (feet)	SAS MON Well XD 5 (feet)	ICU APT Well XD 6 (feet)	UFA OB Well (BU) XD 7 (feet)
8/11/2004 15:34	1709.2132	24.444	10.084	-0.981	-0.079	-1.022	10.082
8/11/2004 15:39	1714.2132	24.447	10.078	-0.985	-0.088	-1.025	10.074
8/11/2004 15:44	1719.2132	24.481	10.09	-0.981	-0.079	-1.025	10.078
8/11/2004 15:49	1724.2132	24.538	10.104	-0.978	-0.081	-1.022	10.095
8/11/2004 15:54	1729.2132	24.47	10.11	-0.981	-0.081	-1.025	10.104
8/11/2004 15:59	1734.2132	24.541	10.116	-0.981	-0.081	-1.027	10.111
8/11/2004 16:04	1739.2132	24.535	10.124	-0.983	-0.081	-1.022	10.117
8/11/2004 16:09	1744.2132	24.547	10.13	-0.978	-0.079	-1.022	10.126
8/11/2004 16:14	1749.2132	24.467	10.139	-0.981	-0.081	-1.025	10.137
8/11/2004 16:19	1754.2132	24.49	10.147	-0.976	-0.081	-1.022	10.141
8/11/2004 16:24	1759.2132	24.586	10.145	-0.985	-0.088	-1.025	10.145
8/11/2004 16:29	1764.2132	24.569	10.145	-0.981	-0.086	-1.025	10.139
8/11/2004 16:34	1769.2132	24.615	10.159	-0.976	-0.079	-1.022	10.152
8/11/2004 16:39	1774.2132	24.586	10.173	-0.978	-0.077	-1.025	10.174
8/11/2004 16:44	1779.2132	24.64	10.179	-0.974	-0.079	-1.025	10.178
8/11/2004 16:49	1784.2132	24.53	10.188	-0.976	-0.079	-1.025	10.185
8/11/2004 16:54	1789.2132	24.598	10.191	-0.971	-0.079	-1.022	10.193
8/11/2004 16:59	1794.2132	24.578	10.199	-0.974	-0.079	-1.025	10.196
8/11/2004 17:04	1799.2132	24.652	10.202	-0.974	-0.077	-1.025	10.202
8/11/2004 17:09	1804.2132	24.68	10.214	-0.976	-0.081	-1.019	10.213
8/11/2004 17:14	1809.2132	24.606	10.219	-0.974	-0.079	-1.025	10.219
8/11/2004 17:19	1814.2132	24.714	10.231	-0.974	-0.081	-1.022	10.228
8/11/2004 17:24	1819.2132	24.646	10.234	-0.976	-0.081	-1.022	10.233
8/11/2004 17:29	1824.2132	24.728	10.239	-0.971	-0.077	-1.022	10.243
8/11/2004 17:34	1829.2132	24.717	10.242	-0.974	-0.079	-1.022	10.241
8/11/2004 17:39	1834.2132	24.694	10.245	-0.974	-0.079	-1.022	10.246
8/11/2004 17:44	1839.2132	24.677	10.245	-0.969	-0.083	-1.019	10.246
8/11/2004 17:49	1844.2132	24.689	10.248	-0.971	-0.081	-1.022	10.25
8/11/2004 17:54	1849.2132	24.629	10.251	-0.971	-0.083	-1.019	10.252
8/11/2004 17:59	1854.2132	24.629	10.262	-0.967	-0.086	-1.016	10.259
8/11/2004 18:04	1859.2132	24.623	10.262	-0.965	-0.083	-1.019	10.263
8/11/2004 18:09	1864.2132	24.686	10.271	-0.971	-0.081	-1.022	10.272
8/11/2004 18:14	1869.2132	24.714	10.28	-0.965	-0.081	-1.019	10.278
8/11/2004 18:19	1874.2132	24.703	10.288	-0.969	-0.081	-1.022	10.285
8/11/2004 18:24	1879.2132	24.771	10.294	-0.962	-0.079	-1.019	10.289
8/11/2004 18:29	1884.2132	24.734	10.3	-0.967	-0.083	-1.016	10.3
8/11/2004 18:34	1889.2132	24.737	10.305	-0.965	-0.077	-1.019	10.311
8/11/2004 18:39	1894.2132	24.731	10.314	-0.965	-0.081	-1.016	10.313
8/11/2004 18:44	1899.2132	24.703	10.32	-0.965	-0.079	-1.019	10.322
8/11/2004 18:49	1904.2132	24.765	10.326	-0.962	-0.081	-1.013	10.326
8/11/2004 18:54	1909.2132	24.802	10.334	-0.958	-0.081	-1.013	10.333
8/11/2004 18:59	1914.2132	24.731	10.337	-0.956	-0.083	-1.013	10.335
8/11/2004 19:04	1919.2132	24.731	10.34	-0.958	-0.081	-1.019	10.341
8/11/2004 19:09	1924.2132	24.763	10.346	-0.958	-0.081	-1.016	10.346
8/11/2004 19:14	1929.2132	24.726	10.346	-0.956	-0.081	-1.016	10.348
8/11/2004 19:19	1934.2132	24.74	10.349	-0.953	-0.083	-1.013	10.352
8/11/2004 19:24	1939.2132	24.797	10.354	-0.953	-0.088	-1.007	10.352
8/11/2004 19:29	1944.2132	24.714	10.357	-0.956	-0.081	-1.013	10.357
8/11/2004 19:34	1949.2132	24.831	10.363	-0.953	-0.086	-1.007	10.367
8/11/2004 19:39	1954.2132	24.817	10.363	-0.949	-0.086	-1.01	10.367
8/11/2004 19:44	1959.2132	24.893	10.366	-0.946	-0.081	-1.01	10.37
8/11/2004 19:49	1964.2132	24.791	10.369	-0.951	-0.086	-1.007	10.37
8/11/2004 19:54	1969.2132	24.828	10.377	-0.946	-0.086	-1.007	10.378
8/11/2004 19:59	1974.2132	24.697	10.377	-0.949	-0.086	-1.01	10.378
8/11/2004 20:04	1979.2132	24.8	10.383	-0.946	-0.083	-1.004	10.383

DRAWDOWN PHASE 2

Date Time MM/DD/YYYY HH:MM	Elapse Time (minutes)	UFA APT Well XD 1 (feet)	UFA OB Well XD 2 (feet)	ICU MON Well XD 4 (feet)	SAS MON Well XD 5 (feet)	ICU APT Well XD 6 (feet)	UFA OB Well (BU) XD 7 (feet)
8/11/2004 20:09	1984.2132	24.709	10.383	-0.949	-0.083	-1.007	10.383
8/11/2004 20:14	1989.2132	24.868	10.392	-0.944	-0.083	-1.007	10.389
8/11/2004 20:19	1994.2132	24.8	10.395	-0.944	-0.083	-1.004	10.394
8/11/2004 20:24	1999.2132	24.925	10.397	-0.942	-0.083	-1.001	10.398
8/11/2004 20:29	2004.2132	24.794	10.4	-0.944	-0.09	-1.001	10.402
8/11/2004 20:34	2009.2132	24.839	10.403	-0.94	-0.088	-1.004	10.404
8/11/2004 20:39	2014.2132	24.808	10.409	-0.94	-0.086	-1.004	10.413
8/11/2004 20:44	2019.2132	24.876	10.418	-0.94	-0.086	-1.001	10.418
8/11/2004 20:49	2024.2132	24.925	10.423	-0.942	-0.088	-1.001	10.422
8/11/2004 20:54	2029.2132	24.851	10.426	-0.933	-0.088	-0.999	10.426
8/11/2004 20:59	2034.2132	24.859	10.432	-0.935	-0.086	-1.001	10.435
8/11/2004 21:04	2039.2132	24.893	10.438	-0.933	-0.09	-0.999	10.437
8/11/2004 21:09	2044.2132	24.868	10.443	-0.931	-0.09	-0.993	10.444
8/11/2004 21:14	2049.2132	24.817	10.446	-0.931	-0.09	-0.996	10.448
8/11/2004 21:19	2054.2132	24.794	10.452	-0.931	-0.088	-0.999	10.455
8/11/2004 21:24	2059.2132	24.896	10.455	-0.931	-0.09	-0.993	10.457
8/11/2004 21:29	2064.2132	24.913	10.461	-0.931	-0.093	-0.993	10.461
8/11/2004 21:34	2069.2132	24.859	10.463	-0.933	-0.09	-0.993	10.465
8/11/2004 21:39	2074.2132	24.907	10.466	-0.928	-0.09	-0.996	10.468
8/11/2004 21:44	2079.2132	24.927	10.472	-0.928	-0.09	-0.993	10.474
8/11/2004 21:49	2084.2132	24.836	10.478	-0.931	-0.093	-0.993	10.476
8/11/2004 21:54	2089.2132	24.879	10.481	-0.928	-0.09	-0.993	10.479
8/11/2004 21:59	2094.2132	24.89	10.486	-0.924	-0.093	-0.99	10.483
8/11/2004 22:04	2099.2132	24.836	10.486	-0.924	-0.088	-0.99	10.487
8/11/2004 22:09	2104.2132	24.976	10.492	-0.921	-0.09	-0.993	10.492
8/11/2004 22:14	2109.2132	25.021	10.504	-0.921	-0.095	-0.987	10.502
8/11/2004 22:19	2114.2132	24.981	10.515	-0.919	-0.093	-0.99	10.516
8/11/2004 22:24	2119.2132	24.993	10.53	-0.919	-0.095	-0.99	10.526
8/11/2004 22:29	2124.2132	24.993	10.538	-0.919	-0.09	-0.987	10.539
8/11/2004 22:34	2129.2132	24.998	10.55	-0.917	-0.088	-0.99	10.553
8/11/2004 22:39	2134.2132	24.976	10.564	-0.917	-0.088	-0.987	10.563
8/11/2004 22:44	2139.2132	25.112	10.573	-0.917	-0.09	-0.99	10.572
8/11/2004 22:49	2144.2132	24.987	10.578	-0.919	-0.095	-0.984	10.576
8/11/2004 22:54	2149.2132	25.078	10.587	-0.917	-0.09	-0.987	10.585
8/11/2004 22:59	2154.2132	25.095	10.593	-0.912	-0.083	-0.981	10.596
8/11/2004 23:04	2159.2132	25.044	10.599	-0.915	-0.081	-0.987	10.6
8/11/2004 23:09	2164.2132	25.069	10.607	-0.915	-0.081	-0.981	10.607
8/11/2004 23:14	2169.2132	25.078	10.607	-0.915	-0.086	-0.981	10.607
8/11/2004 23:19	2174.2132	25.069	10.616	-0.915	-0.083	-0.984	10.616
8/11/2004 23:24	2179.2132	25.061	10.616	-0.915	-0.081	-0.984	10.618
8/11/2004 23:29	2184.2132	25.021	10.622	-0.917	-0.081	-0.981	10.622
8/11/2004 23:34	2189.2132	25.078	10.627	-0.915	-0.083	-0.978	10.627
8/11/2004 23:39	2194.2132	25.069	10.63	-0.915	-0.081	-0.981	10.633
8/11/2004 23:44	2199.2132	25.146	10.636	-0.915	-0.083	-0.981	10.635
8/11/2004 23:49	2204.2132	25.103	10.642	-0.915	-0.083	-0.975	10.64
8/11/2004 23:54	2209.2132	25.007	10.644	-0.917	-0.083	-0.978	10.646
8/11/2004 23:59	2214.2132	25.143	10.644	-0.915	-0.083	-0.978	10.644
8/12/2004 0:04	2219.2132	25.129	10.647	-0.912	-0.086	-0.975	10.646
8/12/2004 0:09	2224.2132	25.095	10.644	-0.915	-0.083	-0.975	10.646
8/12/2004 0:14	2229.2132	25.064	10.633	-0.915	-0.086	-0.975	10.635
8/12/2004 0:19	2234.2132	25.038	10.624	-0.915	-0.086	-0.975	10.622
8/12/2004 0:24	2239.2132	25.081	10.616	-0.91	-0.081	-0.975	10.613
8/12/2004 0:29	2244.2132	25.061	10.607	-0.91	-0.083	-0.975	10.607
8/12/2004 0:34	2249.2132	24.984	10.601	-0.912	-0.083	-0.975	10.598
8/12/2004 0:39	2254.2132	24.925	10.593	-0.912	-0.081	-0.975	10.594

DRAWDOWN PHASE 2

Date Time MM/DD/YYYY HH:MM	Elapse Time (minutes)	UFA APT Well XD 1 (feet)	UFA OB Well XD 2 (feet)	ICU MON Well XD 4 (feet)	SAS MON Well XD 5 (feet)	ICU APT Well XD 6 (feet)	UFA OB Well (BU) XD 7 (feet)
8/12/2004 0:44	2259.2132	24.993	10.587	-0.91	-0.086	-0.973	10.587
8/12/2004 0:49	2264.2132	25.004	10.581	-0.908	-0.083	-0.973	10.581
8/12/2004 0:54	2269.2132	25.021	10.578	-0.91	-0.086	-0.97	10.574
8/12/2004 0:59	2274.2132	24.987	10.567	-0.912	-0.083	-0.973	10.566
8/12/2004 1:04	2279.2132	24.944	10.567	-0.912	-0.083	-0.973	10.566
8/12/2004 1:09	2284.2132	24.996	10.564	-0.91	-0.086	-0.97	10.563
8/12/2004 1:14	2289.2132	24.942	10.578	-0.91	-0.081	-0.973	10.579
8/12/2004 1:19	2294.2132	25.03	10.587	-0.91	-0.081	-0.973	10.587
8/12/2004 1:24	2299.2132	25.038	10.599	-0.91	-0.086	-0.97	10.596
8/12/2004 1:29	2304.2132	25.015	10.61	-0.908	-0.081	-0.973	10.609
8/12/2004 1:34	2309.2132	25.067	10.619	-0.912	-0.081	-0.97	10.616
8/12/2004 1:39	2314.2132	25.032	10.627	-0.91	-0.083	-0.973	10.627
8/12/2004 1:44	2319.2132	25.007	10.63	-0.908	-0.083	-0.97	10.629
8/12/2004 1:49	2324.2132	25.078	10.636	-0.91	-0.086	-0.97	10.635
8/12/2004 1:54	2329.2132	25.004	10.644	-0.908	-0.081	-0.973	10.646
8/12/2004 1:59	2334.2132	25.05	10.65	-0.908	-0.086	-0.97	10.65
8/12/2004 2:04	2339.2132	25.118	10.656	-0.91	-0.086	-0.967	10.655
8/12/2004 2:09	2344.2132	25.075	10.659	-0.91	-0.081	-0.97	10.659
8/12/2004 2:14	2349.2132	25.103	10.665	-0.91	-0.083	-0.967	10.666
8/12/2004 2:19	2354.2132	25.135	10.667	-0.908	-0.081	-0.97	10.668
8/12/2004 2:24	2359.2132	25.064	10.67	-0.91	-0.083	-0.97	10.674
8/12/2004 2:29	2364.2132	25.121	10.679	-0.906	-0.086	-0.97	10.679
8/12/2004 2:34	2369.2132	25.101	10.679	-0.908	-0.086	-0.967	10.679
8/12/2004 2:39	2374.2132	25.106	10.685	-0.91	-0.083	-0.967	10.685
8/12/2004 2:44	2379.2132	25.157	10.685	-0.908	-0.086	-0.967	10.683
8/12/2004 2:49	2384.2132	25.024	10.69	-0.91	-0.081	-0.97	10.692
8/12/2004 2:54	2389.2132	25.143	10.699	-0.906	-0.086	-0.967	10.694
8/12/2004 2:59	2394.2132	25.155	10.705	-0.906	-0.083	-0.964	10.701
8/12/2004 3:04	2399.2132	25.163	10.708	-0.908	-0.086	-0.961	10.711
8/12/2004 3:09	2404.2132	25.169	10.708	-0.906	-0.086	-0.961	10.709
8/12/2004 3:14	2409.2132	25.089	10.696	-0.906	-0.083	-0.964	10.694
8/12/2004 3:19	2414.2132	25.155	10.688	-0.906	-0.083	-0.964	10.687
8/12/2004 3:24	2419.2132	25.013	10.679	-0.906	-0.086	-0.961	10.679
8/12/2004 3:29	2424.2132	25.001	10.67	-0.906	-0.086	-0.964	10.67
8/12/2004 3:34	2429.2132	24.97	10.659	-0.906	-0.086	-0.964	10.661
8/12/2004 3:39	2434.2132	25.052	10.656	-0.903	-0.083	-0.964	10.657
8/12/2004 3:44	2439.2132	24.981	10.653	-0.906	-0.081	-0.964	10.655
8/12/2004 3:49	2444.2132	25.047	10.65	-0.903	-0.081	-0.964	10.65
8/12/2004 3:54	2449.2132	25.032	10.644	-0.901	-0.083	-0.961	10.648
8/12/2004 3:59	2454.2132	24.916	10.642	-0.906	-0.083	-0.961	10.64
8/12/2004 4:04	2459.2132	24.919	10.642	-0.906	-0.083	-0.964	10.64
8/12/2004 4:09	2464.2132	24.996	10.639	-0.906	-0.083	-0.961	10.64
8/12/2004 4:14	2469.2132	24.947	10.639	-0.903	-0.086	-0.961	10.637
8/12/2004 4:19	2474.2132	24.956	10.639	-0.906	-0.083	-0.961	10.64
8/12/2004 4:24	2479.2132	25.021	10.642	-0.908	-0.081	-0.961	10.642
8/12/2004 4:29	2484.2132	25.018	10.644	-0.901	-0.086	-0.961	10.644
8/12/2004 4:34	2489.2132	24.933	10.647	-0.903	-0.083	-0.958	10.646
8/12/2004 4:39	2494.2132	24.97	10.647	-0.901	-0.081	-0.961	10.648
8/12/2004 4:44	2499.2132	25.061	10.656	-0.901	-0.083	-0.958	10.655
8/12/2004 4:49	2504.2132	25.055	10.662	-0.901	-0.079	-0.958	10.661
8/12/2004 4:54	2509.2132	25.058	10.667	-0.896	-0.079	-0.955	10.668
8/12/2004 4:59	2514.2132	24.942	10.673	-0.899	-0.079	-0.955	10.672
8/12/2004 5:04	2519.2132	25.035	10.673	-0.896	-0.083	-0.952	10.674
8/12/2004 5:09	2524.2132	24.984	10.676	-0.896	-0.079	-0.955	10.677
8/12/2004 5:14	2529.2132	25.05	10.679	-0.896	-0.079	-0.955	10.677

DRAWDOWN PHASE 2

Date Time MM/DD/YYYY HH:MM	Elapse Time (minutes)	UFA APT Well XD 1 (feet)	UFA OB Well XD 2 (feet)	ICU MON Well XD 4 (feet)	SAS MON Well XD 5 (feet)	ICU APT Well XD 6 (feet)	UFA OB Well (BU) XD 7 (feet)
8/12/2004 5:19	2534.2132	24.959	10.679	-0.894	-0.083	-0.95	10.679
8/12/2004 5:24	2539.2132	25.013	10.682	-0.894	-0.083	-0.947	10.681
8/12/2004 5:29	2544.2132	24.976	10.682	-0.894	-0.083	-0.947	10.681
8/12/2004 5:34	2549.2132	25.069	10.688	-0.892	-0.079	-0.947	10.69
8/12/2004 5:39	2554.2132	25.064	10.69	-0.89	-0.083	-0.947	10.685
8/12/2004 5:44	2559.2132	24.976	10.693	-0.892	-0.081	-0.947	10.69
8/12/2004 5:49	2564.2132	24.936	10.699	-0.89	-0.079	-0.944	10.696
8/12/2004 5:54	2569.2132	24.996	10.702	-0.887	-0.081	-0.947	10.703
8/12/2004 5:59	2574.2132	25.004	10.708	-0.887	-0.093	-0.941	10.705
8/12/2004 6:04	2579.2132	25.007	10.708	-0.885	-0.093	-0.944	10.707
8/12/2004 6:09	2584.2132	24.959	10.713	-0.885	-0.095	-0.941	10.716
8/12/2004 6:14	2589.2132	24.91	10.713	-0.885	-0.09	-0.947	10.714
8/12/2004 6:19	2594.2132	24.959	10.722	-0.885	-0.088	-0.941	10.724
8/12/2004 6:24	2599.2132	25.001	10.725	-0.88	-0.093	-0.938	10.724
8/12/2004 6:29	2604.2132	24.944	10.728	-0.878	-0.09	-0.938	10.729
8/12/2004 6:34	2609.2132	25.007	10.725	-0.876	-0.097	-0.932	10.722
8/12/2004 6:39	2614.2132	24.896	10.725	-0.876	-0.097	-0.932	10.722
8/12/2004 6:44	2619.2132	24.976	10.725	-0.874	-0.097	-0.932	10.727
8/12/2004 6:49	2624.2132	25.001	10.725	-0.871	-0.095	-0.929	10.722
8/12/2004 6:54	2629.2132	24.947	10.728	-0.871	-0.099	-0.932	10.727
8/12/2004 6:59	2634.2132	24.973	10.731	-0.874	-0.097	-0.929	10.731
8/12/2004 7:04	2639.2132	24.953	10.728	-0.871	-0.099	-0.929	10.729
8/12/2004 7:09	2644.2132	24.927	10.736	-0.867	-0.097	-0.926	10.733
8/12/2004 7:14	2649.2132	24.936	10.731	-0.869	-0.102	-0.924	10.733
8/12/2004 7:19	2654.2132	24.961	10.736	-0.869	-0.099	-0.926	10.733
8/12/2004 7:24	2659.2132	24.91	10.734	-0.865	-0.097	-0.924	10.733
8/12/2004 7:29	2664.2132	24.143	10.716	-0.862	-0.102	-0.924	10.714
8/12/2004 7:34	2669.2132	23.674	9.57	-0.86	-0.097	-0.918	9.579
8/12/2004 7:39	2674.2132	24.353	10.443	-0.86	-0.102	-0.918	10.446
8/12/2004 7:44	2679.2132	24.353	10.581	-0.86	-0.104	-0.915	10.579
8/12/2004 7:49	2684.2132	24.513	10.639	-0.851	-0.097	-0.915	10.633
8/12/2004 7:54	2689.2132	24.496	10.659	-0.858	-0.102	-0.912	10.657
8/12/2004 7:59	2694.2132	24.476	10.667	-0.867	-0.108	-0.918	10.668
8/12/2004 8:04	2699.2132	24.442	10.688	-0.853	-0.102	-0.912	10.685
8/12/2004 8:09	2704.2132	24.481	10.69	-0.853	-0.099	-0.912	10.692
8/12/2004 8:14	2709.2132	24.532	10.696	-0.849	-0.099	-0.909	10.696
8/12/2004 8:19	2714.2132	24.447	10.688	-0.851	-0.108	-0.906	10.696
8/12/2004 8:24	2719.2132	24.365	10.699	-0.844	-0.104	-0.903	10.698
8/12/2004 8:29	2724.2132	24.405	10.699	-0.844	-0.104	-0.906	10.694
8/12/2004 8:34	2729.2132	24.433	10.693	-0.849	-0.111	-0.903	10.694
8/12/2004 8:39	2734.2132	24.459	10.682	-0.853	-0.12	-0.906	10.69
8/12/2004 8:44	2739.2132	24.362	10.702	-0.835	-0.102	-0.898	10.701
8/12/2004 8:49	2744.2132	24.393	10.699	-0.84	-0.106	-0.898	10.703
8/12/2004 8:54	2749.2132	24.436	10.69	-0.844	-0.115	-0.898	10.692
8/12/2004 8:59	2754.2132	24.379	10.702	-0.83	-0.102	-0.895	10.698
8/12/2004 9:04	2759.2132	24.45	10.713	-0.824	-0.097	-0.889	10.707
8/12/2004 9:09	2764.2132	24.373	10.708	-0.83	-0.104	-0.895	10.709

Must add 2 hrs to the time for EST. Test Shutdown @ 11:23 am EST.

In-Situ Inc. Hermit 3000 Logger
ROMP 29A - Sebring Wellsite
Upper Floridan aquifer System Aquifer Performance Test

Reference (@ start)	0	0	0	0	0	0
Pressure @ Reference	2.812	16.415	16.477	18.728	30.066	14.365
Specific Gravity	1	1	1	1	1	1
Linearity	0.1216	0.12	0.0643	0.0666	0.0766	0.1107
Scale	19.6931	19.8408	15.7239	15.5841	19.9206	15.009
Offset	-0.0269	-0.0445	-0.0609	-0.032	0.021	0.1591

RECOVERY PHASE

Date Time MM/DD/YYYY HH:MM	Elapse Time (minutes)	UFA APT Well XD 1 (feet)	UFA OB Well XD 2 (feet)	ICU MON Well XD 4 (feet)	SAS MON Well XD 5 (feet)	ICU APT Well XD 6 (feet)	UFA OB Well (BU) XD 7 (feet)
8/12/2004 9:21	2787	0	0	0	0	0	0
8/12/2004 9:22	2787.0387	-0.048	-0.003	-0.005	-0.005	0.003	0.002
8/12/2004 9:22	2787.0773	-4.301	-0.006	-0.005	-0.005	0	0.002
8/12/2004 9:22	2787.116	-21.151	-0.009	-0.007	-0.007	0	0
8/12/2004 9:22	2787.1547	-35.094	-0.011	-0.014	-0.009	-0.003	-0.002
8/12/2004 9:22	2787.1933	-43.156	-0.017	-0.016	-0.007	-0.003	-0.011
8/12/2004 9:22	2787.232	-44.209	-0.026	-0.016	-0.007	-0.006	-0.02
8/12/2004 9:22	2787.2707	-42.418	-0.04	-0.016	-0.007	-0.003	-0.037
8/12/2004 9:22	2787.3093	-36.649	-0.063	-0.02	-0.009	-0.009	-0.061
8/12/2004 9:22	2787.348	-28.677	-0.089	-0.018	-0.007	-0.003	-0.098
8/12/2004 9:22	2787.3867	-19.929	-0.132	-0.02	-0.009	-0.009	-0.144
8/12/2004 9:22	2787.4253	-14.941	-0.181	-0.023	-0.007	-0.009	-0.198
8/12/2004 9:22	2787.464	-11.708	-0.236	-0.02	-0.007	-0.006	-0.257
8/12/2004 9:22	2787.5027	-10.152	-0.299	-0.02	-0.009	-0.009	-0.322
8/12/2004 9:22	2787.5413	-10.189	-0.365	-0.023	-0.007	-0.006	-0.387
8/12/2004 9:22	2787.58	-11.323	-0.431	-0.023	-0.002	-0.006	-0.453
8/12/2004 9:22	2787.6187	-12.771	-0.5	-0.025	-0.005	-0.009	-0.52
8/12/2004 9:22	2787.6573	-14.331	-0.569	-0.023	-0.007	-0.009	-0.59
8/12/2004 9:22	2787.696	-16.308	-0.635	-0.025	-0.009	-0.012	-0.66
8/12/2004 9:22	2787.7347	-18.535	-0.701	-0.023	-0.009	-0.012	-0.723
8/12/2004 9:22	2787.7733	-20.58	-0.764	-0.025	-0.007	-0.009	-0.782
8/12/2004 9:22	2787.8128	-22.295	-0.827	-0.023	-0.007	-0.009	-0.845
8/12/2004 9:22	2787.8547	-23.441	-0.888	-0.023	-0.002	-0.009	-0.899
8/12/2004 9:22	2787.899	-24.076	-0.948	-0.02	-0.002	-0.009	-0.962
8/12/2004 9:22	2787.946	-24.11	-1.009	-0.018	-0.005	-0.009	-1.025
8/12/2004 9:22	2787.9958	-23.633	-1.075	-0.018	-0.005	-0.009	-1.091
8/12/2004 9:23	2788.0485	-22.518	-1.144	-0.016	0	-0.009	-1.16
8/12/2004 9:23	2788.1043	-20.92	-1.215	-0.016	0.002	-0.009	-1.232
8/12/2004 9:23	2788.1635	-19.789	-1.27	-0.014	0.009	-0.006	-1.287
8/12/2004 9:23	2788.2262	-18.141	-1.379	-0.011	0.007	-0.006	-1.396
8/12/2004 9:23	2788.2925	-17.721	-1.463	-0.011	0.009	-0.006	-1.483
8/12/2004 9:23	2788.3628	-18.132	-1.552	-0.011	0.009	-0.006	-1.57
8/12/2004 9:23	2788.4373	-19.372	-1.641	-0.009	0.005	-0.006	-1.657
8/12/2004 9:23	2788.5163	-20.789	-1.73	-0.011	0.005	-0.003	-1.746
8/12/2004 9:23	2788.6	-21.769	-1.816	-0.014	0.007	-0.003	-1.836
8/12/2004 9:23	2788.6885	-21.829	-1.908	-0.011	0.005	-0.006	-1.923
8/12/2004 9:23	2788.7823	-21.109	-2.003	-0.011	0.002	-0.006	-2.016
8/12/2004 9:23	2788.8817	-19.991	-2.101	-0.014	0.009	-0.003	-2.119
8/12/2004 9:23	2788.987	-19.357	-2.204	-0.009	0.005	-0.003	-2.221
8/12/2004 9:24	2789.0985	-19.7	-2.302	-0.007	0.005	0	-2.319
8/12/2004 9:24	2789.2167	-20.534	-2.397	-0.011	0.009	-0.003	-2.411
8/12/2004 9:24	2789.3418	-21.126	-2.494	-0.009	0.007	-0.003	-2.504
8/12/2004 9:24	2789.4743	-20.851	-2.586	-0.007	0.009	-0.003	-2.6

RECOVERY PHASE

Date Time MM/DD/YYYY HH:MM	Elapse Time (minutes)	UFA APT Well XD 1 (feet)	UFA OB Well XD 2 (feet)	ICU MON Well XD 4 (feet)	SAS MON Well XD 5 (feet)	ICU APT Well XD 6 (feet)	UFA OB Well (BU) XD 7 (feet)
8/12/2004 9:24	2789.6148	-20.12	-2.678	-0.005	0.009	0	-2.692
8/12/2004 9:24	2789.7637	-20.074	-2.773	-0.005	0.014	0	-2.783
8/12/2004 9:24	2789.9212	-20.549	-2.862	-0.002	0.011	0	-2.873
8/12/2004 9:25	2790.088	-20.846	-2.949	0	0.014	0	-2.96
8/12/2004 9:25	2790.2648	-20.457	-3.032	0.005	0.023	0	-3.043
8/12/2004 9:25	2790.4522	-20.366	-3.11	0.016	0.027	0.003	-3.126
8/12/2004 9:25	2790.6505	-20.591	-3.187	0.023	0.036	0.003	-3.206
8/12/2004 9:25	2790.8607	-20.709	-3.271	0.025	0.029	0.003	-3.287
8/12/2004 9:26	2791.0833	-20.411	-3.345	0.02	0.034	0.003	-3.363
8/12/2004 9:26	2791.3192	-20.686	-3.423	0.02	0.025	0.006	-3.439
8/12/2004 9:26	2791.569	-20.714	-3.515	0.016	0.02	0.003	-3.52
8/12/2004 9:26	2791.8337	-20.56	-3.581	0.016	0.025	0.003	-3.596
8/12/2004 9:27	2792.114	-20.689	-3.659	0.02	0.02	0	-3.671
8/12/2004 9:27	2792.4108	-20.626	-3.734	0.02	0.025	0.003	-3.742
8/12/2004 9:27	2792.7253	-20.737	-3.806	0.02	0.02	0.003	-3.812
8/12/2004 9:28	2793.0585	-20.674	-3.877	0.016	0.016	0.006	-3.882
8/12/2004 9:28	2793.4113	-20.777	-3.949	0.011	0.014	0.009	-3.952
8/12/2004 9:28	2793.7852	-20.74	-4.024	0.014	0.014	0.006	-4.026
8/12/2004 9:29	2794.1812	-20.811	-4.093	0.014	0.016	0.006	-4.093
8/12/2004 9:29	2794.6005	-20.791	-4.156	0.016	0.023	0.009	-4.159
8/12/2004 9:30	2795.0448	-20.783	-4.228	0.011	0.018	0.006	-4.229
8/12/2004 9:30	2795.5155	-20.846	-4.292	0.014	0.014	0.009	-4.29
8/12/2004 9:30	2796.014	-20.837	-4.355	0.018	0.016	0.009	-4.355
8/12/2004 9:31	2796.542	-20.806	-4.424	0.016	0.018	0.012	-4.421
8/12/2004 9:32	2797.1013	-20.894	-4.493	0.005	0.011	0.012	-4.488
8/12/2004 9:32	2797.6938	-20.86	-4.565	0.014	0.009	0.009	-4.554
8/12/2004 9:33	2798.3213	-20.92	-4.637	0.011	0.009	0.009	-4.626
8/12/2004 9:33	2798.9862	-20.946	-4.686	0.011	0.007	0.014	-4.68
8/12/2004 9:34	2799.6903	-20.971	-4.763	-0.005	-0.005	0.006	-4.75
8/12/2004 9:35	2800.4362	-20.98	-4.806	0.016	0.014	0.012	-4.807
8/12/2004 9:36	2801.2262	-21.011	-4.881	0.011	0.007	0.012	-4.87
8/12/2004 9:37	2802.063	-21.029	-4.927	0.016	0.007	0.017	-4.922
8/12/2004 9:37	2802.9495	-21.014	-4.979	0.027	0.018	0.02	-4.981
8/12/2004 9:38	2803.8885	-21.043	-5.042	0.027	0.018	0.02	-5.04
8/12/2004 9:39	2804.8832	-21.049	-5.111	0.032	0.018	0.017	-5.099
8/12/2004 9:40	2805.9368	-21.086	-5.16	0.03	0.009	0.017	-5.158
8/12/2004 9:42	2807.0528	-21.126	-5.215	0.023	0.002	0.023	-5.212
8/12/2004 9:43	2808.235	-21.191	-5.298	0.025	0.005	0.014	-5.28
8/12/2004 9:44	2809.4872	-21.174	-5.347	0.014	-0.002	0.014	-5.339
8/12/2004 9:45	2810.8137	-21.191	-5.405	0.025	0.005	0.02	-5.396
8/12/2004 9:47	2812.2187	-21.16	-5.451	0.036	0.007	0.029	-5.45
8/12/2004 9:48	2813.707	-21.209	-5.485	0.064	0.027	0.032	-5.496
8/12/2004 9:50	2815.2835	-21.223	-5.546	0.055	0.018	0.035	-5.55
8/12/2004 9:51	2816.9533	-21.263	-5.635	0.032	-0.002	0.026	-5.618
8/12/2004 9:53	2818.7222	-21.326	-5.678	0.039	-0.002	0.032	-5.673
8/12/2004 9:55	2820.5958	-21.377	-5.724	0.05	0.005	0.038	-5.725
8/12/2004 9:57	2822.5805	-21.391	-5.782	0.057	0.007	0.04	-5.782
8/12/2004 9:59	2824.6828	-21.346	-5.831	0.057	0.007	0.04	-5.832
8/12/2004 10:01	2826.9097	-21.397	-5.874	0.071	0.011	0.049	-5.878
8/12/2004 10:04	2829.2685	-21.469	-5.943	0.064	0	0.049	-5.941
8/12/2004 10:06	2831.7672	-21.48	-5.992	0.066	-0.002	0.055	-5.989
8/12/2004 10:09	2834.4138	-21.52	-6.061	0.068	0.002	0.052	-6.057
8/12/2004 10:12	2837.2173	-21.489	-6.113	0.071	-0.002	0.055	-6.116
8/12/2004 10:15	2840.187	-21.477	-6.136	0.107	0.018	0.069	-6.155

RECOVERY PHASE

Date Time MM/DD/YYYY HH:MM	Elapse Time (minutes)	UFA APT Well XD 1 (feet)	UFA OB Well XD 2 (feet)	ICU MON Well XD 4 (feet)	SAS MON Well XD 5 (feet)	ICU APT Well XD 6 (feet)	UFA OB Well (BU) XD 7 (feet)
8/12/2004 10:18	2843.3327	-21.557	-6.205	0.091	0.005	0.072	-6.207
8/12/2004 10:21	2846.6647	-21.569	-6.256	0.096	0.005	0.075	-6.262
8/12/2004 10:25	2850.1942	-21.589	-6.308	0.111	0.007	0.087	-6.314
8/12/2004 10:28	2853.9327	-21.617	-6.349	0.121	0.009	0.092	-6.36
8/12/2004 10:32	2857.8928	-21.646	-6.392	0.141	0.02	0.101	-6.397
8/12/2004 10:37	2862.0877	-21.734	-6.51	0.089	-0.023	0.087	-6.489
8/12/2004 10:41	2866.531	-21.7	-6.498	0.152	0.02	0.113	-6.513
8/12/2004 10:46	2871.2377	-21.746	-6.564	0.148	0.007	0.118	-6.567
8/12/2004 10:51	2876.2232	-21.786	-6.628	0.143	-0.002	0.121	-6.622
8/12/2004 10:56	2881.2232	-21.823	-6.677	0.155	-0.005	0.13	-6.681
8/12/2004 11:01	2886.2232	-21.852	-6.731	0.166	-0.002	0.139	-6.735
8/12/2004 11:06	2891.2232	-21.889	-6.78	0.168	-0.002	0.141	-6.783
8/12/2004 11:11	2896.2232	-21.912	-6.82	0.18	0.002	0.15	-6.829
8/12/2004 11:16	2901.2232	-21.937	-6.867	0.193	0	0.162	-6.871
8/12/2004 11:21	2906.2232	-21.969	-6.91	0.203	0	0.17	-6.914
8/12/2004 11:26	2911.2232	-21.994	-6.95	0.218	0.005	0.179	-6.952
8/12/2004 11:31	2916.2232	-22.017	-6.99	0.232	0.007	0.188	-6.989
8/12/2004 11:36	2921.2232	-22.057	-7.039	0.232	0.002	0.193	-7.03
8/12/2004 11:41	2926.2232	-22.086	-7.08	0.234	-0.002	0.202	-7.067
8/12/2004 11:46	2931.2232	-22.109	-7.126	0.246	-0.002	0.205	-7.111
8/12/2004 11:51	2936.2232	-22.132	-7.157	0.253	0.002	0.214	-7.146
8/12/2004 11:56	2941.2232	-22.157	-7.195	0.259	-0.002	0.222	-7.187
8/12/2004 12:01	2946.2232	-22.183	-7.226	0.262	-0.005	0.228	-7.222
8/12/2004 12:06	2951.2232	-22.223	-7.284	0.253	-0.014	0.228	-7.279
8/12/2004 12:11	2956.2232	-22.22	-7.29	0.278	-0.002	0.237	-7.299
8/12/2004 12:16	2961.2232	-22.24	-7.316	0.284	-0.002	0.248	-7.325
8/12/2004 12:21	2966.2232	-22.269	-7.35	0.284	-0.009	0.254	-7.349
8/12/2004 12:26	2971.2232	-22.252	-7.347	0.323	0.016	0.266	-7.369
8/12/2004 12:31	2976.2232	-22.292	-7.387	0.314	0	0.271	-7.388
8/12/2004 12:36	2981.2232	-22.309	-7.422	0.323	0	0.277	-7.419
8/12/2004 12:41	2986.2232	-22.332	-7.442	0.332	0.002	0.286	-7.447
8/12/2004 12:46	2991.2232	-22.36	-7.494	0.334	0	0.289	-7.486
8/12/2004 12:51	2996.2232	-22.372	-7.505	0.348	0.007	0.297	-7.51
8/12/2004 12:56	3001.2232	-22.389	-7.52	0.357	0.005	0.306	-7.53
8/12/2004 13:01	3006.2232	-22.446	-7.583	0.328	-0.025	0.3	-7.578
8/12/2004 13:06	3011.2232	-22.435	-7.586	0.364	0.002	0.32	-7.593
8/12/2004 13:11	3016.2232	-22.472	-7.621	0.355	-0.011	0.323	-7.622
8/12/2004 13:16	3021.2232	-22.478	-7.647	0.369	-0.007	0.326	-7.648
8/12/2004 13:21	3026.2232	-22.492	-7.655	0.375	-0.009	0.332	-7.663
8/12/2004 13:26	3031.2232	-22.506	-7.684	0.387	-0.007	0.341	-7.685
8/12/2004 13:31	3036.2232	-22.538	-7.721	0.378	-0.018	0.341	-7.718
8/12/2004 13:36	3041.2232	-22.54	-7.73	0.391	-0.009	0.352	-7.742
8/12/2004 13:41	3046.2232	-22.555	-7.75	0.4	-0.007	0.358	-7.755
8/12/2004 13:46	3051.2232	-22.56	-7.762	0.416	-0.002	0.364	-7.775
8/12/2004 13:51	3056.2232	-22.572	-7.782	0.421	-0.005	0.372	-7.792
8/12/2004 13:56	3061.2232	-22.6	-7.805	0.421	-0.007	0.378	-7.805
8/12/2004 14:01	3066.2232	-22.623	-7.839	0.414	-0.023	0.381	-7.831
8/12/2004 14:06	3071.2232	-22.618	-7.837	0.441	-0.005	0.393	-7.849
8/12/2004 14:11	3076.2232	-22.646	-7.871	0.432	-0.011	0.39	-7.877
8/12/2004 14:16	3081.2232	-22.646	-7.88	0.453	-0.002	0.401	-7.893
8/12/2004 14:21	3086.2232	-22.652	-7.885	0.473	0.005	0.418	-7.897
8/12/2004 14:26	3091.2232	-22.678	-7.917	0.462	-0.005	0.418	-7.917
8/12/2004 14:31	3096.2232	-22.689	-7.932	0.476	-0.002	0.427	-7.941
8/12/2004 14:36	3101.2232	-22.712	-7.96	0.473	-0.007	0.43	-7.962

RECOVERY PHASE

Date Time MM/DD/YYYY HH:MM	Elapse Time (minutes)	UFA APT Well XD 1 (feet)	UFA OB Well XD 2 (feet)	ICU MON Well XD 4 (feet)	SAS MON Well XD 5 (feet)	ICU APT Well XD 6 (feet)	UFA OB Well (BU) XD 7 (feet)
8/12/2004 14:41	3106.2232	-22.741	-7.986	0.464	-0.02	0.427	-7.987
8/12/2004 14:46	3111.2232	-22.718	-7.978	0.496	0.005	0.444	-7.993
8/12/2004 14:51	3116.2232	-22.741	-7.995	0.505	0.002	0.447	-8.008
8/12/2004 14:56	3121.2232	-22.766	-8.021	0.494	-0.014	0.45	-8.028
8/12/2004 15:01	3126.2232	-22.772	-8.038	0.503	-0.007	0.456	-8.045
8/12/2004 15:06	3131.2232	-22.781	-8.052	0.514	-0.002	0.465	-8.061
8/12/2004 15:11	3136.2232	-22.795	-8.067	0.514	-0.007	0.468	-8.074
8/12/2004 15:16	3141.2232	-22.818	-8.099	0.503	-0.02	0.468	-8.098
8/12/2004 15:21	3146.2232	-22.812	-8.093	0.528	-0.005	0.476	-8.104
8/12/2004 15:26	3151.2232	-22.818	-8.107	0.535	-0.007	0.485	-8.118
8/12/2004 15:31	3156.2232	-22.838	-8.127	0.544	-0.005	0.488	-8.133
8/12/2004 15:36	3161.2232	-22.843	-8.139	0.544	-0.005	0.496	-8.146
8/12/2004 15:41	3166.2232	-22.849	-8.147	0.553	-0.005	0.508	-8.157
8/12/2004 15:46	3171.2232	-22.869	-8.165	0.553	-0.009	0.508	-8.17
8/12/2004 15:51	3176.2232	-22.878	-8.182	0.56	-0.007	0.514	-8.192
8/12/2004 15:56	3181.2232	-22.886	-8.191	0.569	-0.007	0.52	-8.205
8/12/2004 16:01	3186.2232	-22.898	-8.208	0.571	-0.007	0.522	-8.214
8/12/2004 16:06	3191.2232	-22.906	-8.219	0.578	-0.005	0.528	-8.229
8/12/2004 16:11	3196.2232	-22.915	-8.228	0.582	-0.005	0.534	-8.24
8/12/2004 16:16	3201.2232	-22.921	-8.242	0.587	-0.005	0.54	-8.253
8/12/2004 16:21	3206.2232	-22.935	-8.26	0.592	-0.009	0.543	-8.268
8/12/2004 16:26	3211.2232	-22.946	-8.271	0.601	-0.007	0.554	-8.279
8/12/2004 16:31	3216.2232	-22.955	-8.286	0.601	-0.007	0.56	-8.294
8/12/2004 16:36	3221.2232	-22.964	-8.294	0.607	-0.007	0.563	-8.305
8/12/2004 16:41	3226.2232	-22.969	-8.312	0.612	-0.007	0.569	-8.319
8/12/2004 16:46	3231.2232	-22.975	-8.32	0.619	-0.007	0.574	-8.329
8/12/2004 16:51	3236.2232	-22.984	-8.326	0.626	-0.007	0.58	-8.336
8/12/2004 16:56	3241.2232	-22.986	-8.337	0.63	-0.009	0.583	-8.345
8/12/2004 17:01	3246.2232	-22.995	-8.346	0.635	-0.009	0.589	-8.356
8/12/2004 17:06	3251.2232	-23.004	-8.358	0.637	-0.009	0.592	-8.367
8/12/2004 17:11	3256.2232	-23.009	-8.366	0.644	-0.009	0.595	-8.375
8/12/2004 17:16	3261.2232	-23.024	-8.378	0.646	-0.009	0.603	-8.388
8/12/2004 17:21	3266.2232	-23.026	-8.386	0.651	-0.009	0.609	-8.395
8/12/2004 17:26	3271.2232	-23.038	-8.398	0.655	-0.007	0.615	-8.406
8/12/2004 17:31	3276.2232	-23.046	-8.407	0.664	-0.007	0.618	-8.419
8/12/2004 17:36	3281.2232	-23.058	-8.424	0.667	-0.009	0.623	-8.432
8/12/2004 17:41	3286.2232	-23.066	-8.435	0.671	-0.009	0.626	-8.445
8/12/2004 17:46	3291.2232	-23.081	-8.45	0.676	-0.009	0.632	-8.458
8/12/2004 17:51	3296.2232	-23.084	-8.458	0.68	-0.009	0.635	-8.467
8/12/2004 17:56	3301.2232	-23.089	-8.467	0.683	-0.009	0.644	-8.476
8/12/2004 18:01	3306.2232	-23.095	-8.476	0.687	-0.011	0.649	-8.487
8/12/2004 18:06	3311.2232	-23.101	-8.487	0.692	-0.009	0.652	-8.495
8/12/2004 18:11	3316.2232	-23.109	-8.496	0.698	-0.011	0.658	-8.504
8/12/2004 18:16	3321.2232	-23.112	-8.502	0.703	-0.011	0.661	-8.509
8/12/2004 18:21	3326.2232	-23.112	-8.507	0.708	-0.011	0.667	-8.513
8/12/2004 18:26	3331.2232	-23.115	-8.51	0.712	-0.011	0.672	-8.517
8/12/2004 18:31	3336.2232	-23.121	-8.519	0.717	-0.011	0.678	-8.526
8/12/2004 18:36	3341.2232	-23.127	-8.527	0.721	-0.014	0.684	-8.537
8/12/2004 18:41	3346.2232	-23.132	-8.533	0.724	-0.009	0.687	-8.546
8/12/2004 18:46	3351.2232	-23.135	-8.542	0.728	-0.009	0.693	-8.552
8/12/2004 18:51	3356.2232	-23.141	-8.551	0.733	-0.011	0.696	-8.559
8/12/2004 18:56	3361.2232	-23.147	-8.556	0.737	-0.011	0.701	-8.565
8/12/2004 19:01	3366.2232	-23.149	-8.559	0.742	-0.011	0.704	-8.57
8/12/2004 19:06	3371.2232	-23.149	-8.565	0.746	-0.011	0.713	-8.576

RECOVERY PHASE

Date Time MM/DD/YYYY HH:MM	Elapse Time (minutes)	UFA APT Well XD 1 (feet)	UFA OB Well XD 2 (feet)	ICU MON Well XD 4 (feet)	SAS MON Well XD 5 (feet)	ICU APT Well XD 6 (feet)	UFA OB Well (BU) XD 7 (feet)
8/12/2004 19:11	3376.2232	-23.155	-8.574	0.749	-0.014	0.716	-8.585
8/12/2004 19:16	3381.2232	-23.161	-8.579	0.753	-0.011	0.719	-8.592
8/12/2004 19:21	3386.2232	-23.167	-8.588	0.758	-0.014	0.724	-8.598
8/12/2004 19:26	3391.2232	-23.172	-8.597	0.762	-0.011	0.727	-8.607
8/12/2004 19:31	3396.2232	-23.178	-8.602	0.764	-0.014	0.733	-8.616
8/12/2004 19:36	3401.2232	-23.189	-8.611	0.771	-0.014	0.736	-8.622
8/12/2004 19:41	3406.2232	-23.195	-8.625	0.776	-0.014	0.742	-8.631
8/12/2004 19:46	3411.2232	-23.201	-8.634	0.78	-0.014	0.745	-8.642
8/12/2004 19:51	3416.2232	-23.209	-8.643	0.783	-0.009	0.753	-8.648
8/12/2004 19:56	3421.2232	-23.218	-8.651	0.787	-0.011	0.756	-8.659
8/12/2004 20:01	3426.2232	-23.224	-8.66	0.789	-0.014	0.759	-8.67
8/12/2004 20:06	3431.2232	-23.232	-8.669	0.794	-0.014	0.765	-8.681
8/12/2004 20:11	3436.2232	-23.238	-8.683	0.799	-0.016	0.768	-8.69
8/12/2004 20:16	3441.2232	-23.247	-8.692	0.801	-0.014	0.768	-8.696
8/12/2004 20:21	3446.2232	-23.249	-8.697	0.808	-0.016	0.776	-8.705
8/12/2004 20:26	3451.2232	-23.252	-8.706	0.812	-0.014	0.779	-8.712
8/12/2004 20:31	3456.2232	-23.261	-8.712	0.814	-0.016	0.788	-8.72
8/12/2004 20:36	3461.2232	-23.264	-8.718	0.817	-0.016	0.791	-8.727
8/12/2004 20:41	3466.2232	-23.267	-8.723	0.821	-0.016	0.794	-8.731
8/12/2004 20:46	3471.2232	-23.269	-8.732	0.824	-0.016	0.799	-8.738
8/12/2004 20:51	3476.2232	-23.275	-8.738	0.828	-0.016	0.802	-8.744
8/12/2004 20:56	3481.2232	-23.284	-8.746	0.83	-0.018	0.808	-8.755
8/12/2004 21:01	3486.2232	-23.292	-8.755	0.835	-0.018	0.811	-8.764
8/12/2004 21:06	3491.2232	-23.295	-8.761	0.84	-0.02	0.814	-8.771
8/12/2004 21:11	3496.2232	-23.301	-8.772	0.844	-0.018	0.817	-8.782
8/12/2004 21:16	3501.2232	-23.304	-8.778	0.846	-0.02	0.82	-8.784
8/12/2004 21:21	3506.2232	-23.312	-8.784	0.849	-0.018	0.828	-8.793
8/12/2004 21:26	3511.2232	-23.312	-8.787	0.853	-0.016	0.831	-8.797
8/12/2004 21:31	3516.2232	-23.318	-8.795	0.858	-0.018	0.834	-8.803
8/12/2004 21:36	3521.2232	-23.327	-8.804	0.858	-0.018	0.837	-8.81
8/12/2004 21:41	3526.2232	-23.335	-8.813	0.865	-0.018	0.84	-8.821
8/12/2004 21:46	3531.2232	-23.341	-8.821	0.867	-0.018	0.846	-8.83
8/12/2004 21:51	3536.2232	-23.35	-8.83	0.869	-0.018	0.849	-8.838
8/12/2004 21:56	3541.2232	-23.361	-8.838	0.871	-0.02	0.851	-8.849
8/12/2004 22:01	3546.2232	-23.37	-8.85	0.876	-0.02	0.857	-8.86
8/12/2004 22:06	3551.2232	-23.378	-8.862	0.88	-0.02	0.86	-8.871
8/12/2004 22:11	3556.2232	-23.341	-8.853	0.883	-0.02	0.866	-8.86
8/12/2004 22:16	3561.2232	-23.318	-8.841	0.887	-0.018	0.869	-8.852
8/12/2004 22:21	3566.2232	-23.304	-8.836	0.887	-0.02	0.872	-8.843
8/12/2004 22:26	3571.2232	-23.295	-8.833	0.892	-0.02	0.874	-8.838
8/12/2004 22:31	3576.2232	-23.289	-8.83	0.894	-0.02	0.88	-8.838
8/12/2004 22:36	3581.2232	-23.287	-8.83	0.896	-0.02	0.883	-8.836
8/12/2004 22:41	3586.2232	-23.275	-8.824	0.899	-0.02	0.886	-8.832
8/12/2004 22:46	3591.2232	-23.269	-8.818	0.901	-0.02	0.889	-8.83
8/12/2004 22:51	3596.2232	-23.267	-8.818	0.903	-0.02	0.892	-8.83
8/12/2004 22:56	3601.2232	-23.261	-8.815	0.908	-0.02	0.895	-8.827
8/12/2004 23:01	3606.2232	-23.258	-8.815	0.91	-0.02	0.898	-8.825
8/12/2004 23:06	3611.2232	-23.258	-8.818	0.912	-0.02	0.903	-8.827
8/12/2004 23:11	3616.2232	-23.255	-8.818	0.915	-0.023	0.909	-8.827
8/12/2004 23:16	3621.2232	-23.255	-8.821	0.921	-0.023	0.912	-8.83
8/12/2004 23:21	3626.2232	-23.258	-8.824	0.924	-0.023	0.915	-8.834
8/12/2004 23:26	3631.2232	-23.264	-8.833	0.924	-0.025	0.918	-8.841
8/12/2004 23:31	3636.2232	-23.267	-8.841	0.928	-0.025	0.921	-8.849
8/12/2004 23:36	3641.2232	-23.269	-8.844	0.928	-0.02	0.924	-8.854

RECOVERY PHASE

Date Time MM/DD/YYYY HH:MM	Elapse Time (minutes)	UFA APT Well XD 1 (feet)	UFA OB Well XD 2 (feet)	ICU MON Well XD 4 (feet)	SAS MON Well XD 5 (feet)	ICU APT Well XD 6 (feet)	UFA OB Well (BU) XD 7 (feet)
8/12/2004 23:41	3646.2232	-23.269	-8.847	0.931	-0.02	0.926	-8.856
8/12/2004 23:46	3651.2232	-23.267	-8.853	0.933	-0.023	0.929	-8.86
8/12/2004 23:51	3656.2232	-23.269	-8.853	0.935	-0.018	0.932	-8.862
8/12/2004 23:56	3661.2232	-23.275	-8.859	0.937	-0.02	0.932	-8.867
8/13/2004 0:01	3666.2232	-23.278	-8.862	0.94	-0.02	0.935	-8.869
8/13/2004 0:06	3671.2232	-23.281	-8.864	0.942	-0.023	0.938	-8.873
8/13/2004 0:11	3676.2232	-23.335	-8.89	0.944	-0.023	0.944	-8.897
8/13/2004 0:16	3681.2232	-23.37	-8.916	0.946	-0.025	0.944	-8.928
8/13/2004 0:21	3686.2232	-23.395	-8.939	0.946	-0.025	0.947	-8.948
8/13/2004 0:26	3691.2232	-23.418	-8.959	0.949	-0.025	0.95	-8.967
8/13/2004 0:31	3696.2232	-23.438	-8.98	0.951	-0.027	0.955	-8.989
8/13/2004 0:36	3701.2232	-23.458	-8.997	0.953	-0.027	0.958	-9.007
8/13/2004 0:41	3706.2232	-23.481	-9.014	0.953	-0.027	0.958	-9.024
8/13/2004 0:46	3711.2232	-23.493	-9.031	0.956	-0.027	0.961	-9.039
8/13/2004 0:51	3716.2232	-23.504	-9.043	0.958	-0.027	0.964	-9.053
8/13/2004 0:56	3721.2232	-23.513	-9.052	0.958	-0.025	0.967	-9.061
8/13/2004 1:01	3726.2232	-23.521	-9.06	0.962	-0.025	0.967	-9.068
8/13/2004 1:06	3731.2232	-23.53	-9.069	0.965	-0.027	0.973	-9.079
8/13/2004 1:11	3736.2232	-23.49	-9.06	0.967	-0.025	0.973	-9.07
8/13/2004 1:16	3741.2232	-23.47	-9.049	0.969	-0.025	0.975	-9.059
8/13/2004 1:21	3746.2232	-23.461	-9.046	0.971	-0.027	0.978	-9.053
8/13/2004 1:26	3751.2232	-23.45	-9.04	0.969	-0.025	0.978	-9.048
8/13/2004 1:31	3756.2232	-23.438	-9.031	0.971	-0.029	0.973	-9.039
8/13/2004 1:36	3761.2232	-23.435	-9.031	0.974	-0.027	0.984	-9.039
8/13/2004 1:41	3766.2232	-23.432	-9.029	0.974	-0.029	0.987	-9.039
8/13/2004 1:46	3771.2232	-23.435	-9.031	0.978	-0.032	0.99	-9.044
8/13/2004 1:51	3776.2232	-23.435	-9.037	0.981	-0.034	0.993	-9.05
8/13/2004 1:56	3781.2232	-23.441	-9.04	0.978	-0.034	0.993	-9.053
8/13/2004 2:01	3786.2232	-23.444	-9.049	0.983	-0.034	0.996	-9.061
8/13/2004 2:06	3791.2232	-23.447	-9.054	0.983	-0.032	0.996	-9.063
8/13/2004 2:11	3796.2232	-23.441	-9.054	0.985	-0.032	0.999	-9.063
8/13/2004 2:16	3801.2232	-23.441	-9.054	0.985	-0.032	1.001	-9.061
8/13/2004 2:21	3806.2232	-23.441	-9.057	0.987	-0.034	1.004	-9.063
8/13/2004 2:26	3811.2232	-23.441	-9.06	0.99	-0.032	1.007	-9.066
8/13/2004 2:31	3816.2232	-23.441	-9.06	0.99	-0.034	1.01	-9.068
8/13/2004 2:36	3821.2232	-23.447	-9.069	0.99	-0.036	1.007	-9.074
8/13/2004 2:41	3826.2232	-23.447	-9.066	0.992	-0.034	1.013	-9.077
8/13/2004 2:46	3831.2232	-23.447	-9.072	0.994	-0.034	1.016	-9.081
8/13/2004 2:51	3836.2232	-23.45	-9.077	0.996	-0.034	1.016	-9.085
8/13/2004 2:56	3841.2232	-23.455	-9.083	0.996	-0.034	1.019	-9.094
8/13/2004 3:01	3846.2232	-23.458	-9.089	0.999	-0.036	1.019	-9.096
8/13/2004 3:06	3851.2232	-23.467	-9.092	0.999	-0.036	1.022	-9.103
8/13/2004 3:11	3856.2232	-23.521	-9.115	0.999	-0.036	1.022	-9.127
8/13/2004 3:16	3861.2232	-23.55	-9.138	1.001	-0.036	1.025	-9.149
8/13/2004 3:21	3866.2232	-23.575	-9.167	1.001	-0.038	1.025	-9.173
8/13/2004 3:26	3871.2232	-23.595	-9.181	1.003	-0.034	1.027	-9.19
8/13/2004 3:31	3876.2232	-23.618	-9.198	1.003	-0.036	1.027	-9.208
8/13/2004 3:36	3881.2232	-23.63	-9.21	1.003	-0.034	1.033	-9.221
8/13/2004 3:41	3886.2232	-23.644	-9.224	1.006	-0.036	1.033	-9.236
8/13/2004 3:46	3891.2232	-23.653	-9.236	1.006	-0.036	1.033	-9.247
8/13/2004 3:51	3896.2232	-23.667	-9.247	1.006	-0.038	1.036	-9.26
8/13/2004 3:56	3901.2232	-23.678	-9.259	1.008	-0.036	1.039	-9.271
8/13/2004 4:01	3906.2232	-23.693	-9.276	1.008	-0.038	1.042	-9.286
8/13/2004 4:06	3911.2232	-23.707	-9.288	1.008	-0.041	1.042	-9.297

RECOVERY PHASE

Date Time MM/DD/YYYY HH:MM	Elapse Time (minutes)	UFA APT Well XD 1 (feet)	UFA OB Well XD 2 (feet)	ICU MON Well XD 4 (feet)	SAS MON Well XD 5 (feet)	ICU APT Well XD 6 (feet)	UFA OB Well (BU) XD 7 (feet)
8/13/2004 4:11	3916.2232	-23.718	-9.302	1.01	-0.041	1.042	-9.315
8/13/2004 4:16	3921.2232	-23.727	-9.311	1.01	-0.038	1.042	-9.323
8/13/2004 4:21	3926.2232	-23.736	-9.319	1.01	-0.038	1.045	-9.332
8/13/2004 4:26	3931.2232	-23.744	-9.328	1.01	-0.041	1.045	-9.341
8/13/2004 4:31	3936.2232	-23.747	-9.331	1.012	-0.038	1.048	-9.343
8/13/2004 4:36	3941.2232	-23.756	-9.342	1.012	-0.041	1.051	-9.352
8/13/2004 4:41	3946.2232	-23.761	-9.348	1.012	-0.041	1.051	-9.361
8/13/2004 4:46	3951.2232	-23.764	-9.357	1.012	-0.041	1.051	-9.367
8/13/2004 4:51	3956.2232	-23.77	-9.363	1.015	-0.041	1.053	-9.372
8/13/2004 4:56	3961.2232	-23.77	-9.365	1.015	-0.038	1.053	-9.376
8/13/2004 5:01	3966.2232	-23.776	-9.371	1.017	-0.041	1.056	-9.382
8/13/2004 5:06	3971.2232	-23.778	-9.374	1.017	-0.041	1.056	-9.387
8/13/2004 5:11	3976.2232	-23.778	-9.374	1.019	-0.038	1.056	-9.387
8/13/2004 5:16	3981.2232	-23.781	-9.38	1.022	-0.043	1.059	-9.391
8/13/2004 5:21	3986.2232	-23.784	-9.386	1.022	-0.041	1.059	-9.398
8/13/2004 5:26	3991.2232	-23.79	-9.391	1.022	-0.043	1.062	-9.402
8/13/2004 5:31	3996.2232	-23.796	-9.394	1.024	-0.045	1.068	-9.409
8/13/2004 5:36	4001.2232	-23.798	-9.403	1.024	-0.041	1.065	-9.413
8/13/2004 5:41	4006.2232	-23.801	-9.403	1.024	-0.043	1.065	-9.415
8/13/2004 5:46	4011.2232	-23.807	-9.406	1.024	-0.043	1.071	-9.417
8/13/2004 5:51	4016.2232	-23.81	-9.409	1.026	-0.041	1.074	-9.422
8/13/2004 5:56	4021.2232	-23.813	-9.414	1.028	-0.043	1.074	-9.424
8/13/2004 6:01	4026.2232	-23.816	-9.417	1.028	-0.041	1.074	-9.428
8/13/2004 6:06	4031.2232	-23.816	-9.42	1.031	-0.041	1.076	-9.431
8/13/2004 6:11	4036.2232	-23.816	-9.42	1.031	-0.041	1.079	-9.433
8/13/2004 6:16	4041.2232	-23.816	-9.423	1.031	-0.041	1.079	-9.433
8/13/2004 6:21	4046.2232	-23.816	-9.423	1.031	-0.041	1.082	-9.435
8/13/2004 6:26	4051.2232	-23.816	-9.426	1.033	-0.041	1.082	-9.435
8/13/2004 6:31	4056.2232	-23.818	-9.426	1.033	-0.041	1.085	-9.437
8/13/2004 6:36	4061.2232	-23.816	-9.429	1.033	-0.041	1.085	-9.437
8/13/2004 6:41	4066.2232	-23.813	-9.429	1.035	-0.038	1.088	-9.437
8/13/2004 6:46	4071.2232	-23.813	-9.429	1.037	-0.041	1.088	-9.437
8/13/2004 6:51	4076.2232	-23.813	-9.432	1.035	-0.041	1.091	-9.437
8/13/2004 6:56	4081.2232	-23.81	-9.429	1.04	-0.038	1.094	-9.439
8/13/2004 7:01	4086.2232	-23.807	-9.426	1.037	-0.041	1.097	-9.435
8/13/2004 7:06	4091.2232	-23.81	-9.435	1.037	-0.043	1.097	-9.446
8/13/2004 7:11	4096.2232	-23.813	-9.432	1.037	-0.041	1.097	-9.446
8/13/2004 7:16	4101.2232	-23.81	-9.432	1.042	-0.041	1.1	-9.446
8/13/2004 7:21	4106.2232	-23.81	-9.432	1.042	-0.041	1.102	-9.446
8/13/2004 7:26	4111.2232	-23.81	-9.432	1.042	-0.041	1.102	-9.446
8/13/2004 7:31	4116.2232	-23.813	-9.44	1.042	-0.038	1.105	-9.45
8/13/2004 7:36	4121.2232	-23.81	-9.437	1.044	-0.038	1.108	-9.448
8/13/2004 7:41	4126.2232	-23.81	-9.437	1.051	-0.036	1.114	-9.444
8/13/2004 7:46	4131.2232	-23.824	-9.449	1.04	-0.043	1.111	-9.452
8/13/2004 7:51	4136.2232	-23.821	-9.452	1.049	-0.043	1.111	-9.457
8/13/2004 7:56	4141.2232	-23.821	-9.449	1.053	-0.038	1.114	-9.459
8/13/2004 8:01	4146.2232	-23.83	-9.458	1.044	-0.043	1.114	-9.468
8/13/2004 8:06	4151.2232	-23.833	-9.46	1.044	-0.045	1.114	-9.472
8/13/2004 8:11	4156.2232	-23.841	-9.466	1.044	-0.045	1.114	-9.479
8/13/2004 8:16	4161.2232	-23.839	-9.463	1.049	-0.043	1.12	-9.481
8/13/2004 8:21	4166.2232	-23.839	-9.466	1.049	-0.041	1.123	-9.481
8/13/2004 8:26	4171.2232	-23.844	-9.475	1.053	-0.043	1.123	-9.485
8/13/2004 8:31	4176.2232	-23.847	-9.481	1.051	-0.045	1.126	-9.49
8/13/2004 8:36	4181.2232	-23.844	-9.481	1.056	-0.043	1.126	-9.5

RECOVERY PHASE

Date Time MM/DD/YYYY HH:MM	Elapse Time (minutes)	UFA APT Well XD 1 (feet)	UFA OB Well XD 2 (feet)	ICU MON Well XD 4 (feet)	SAS MON Well XD 5 (feet)	ICU APT Well XD 6 (feet)	UFA OB Well (BU) XD 7 (feet)
8/13/2004 8:41	4186.2232	-23.841	-9.478	1.062	-0.041	1.128	-9.496
8/13/2004 8:46	4191.2232	-23.844	-9.481	1.065	-0.043	1.131	-9.5
8/13/2004 8:51	4196.2232	-23.847	-9.484	1.067	-0.043	1.134	-9.503
8/13/2004 8:56	4201.2232	-23.844	-9.486	1.069	-0.043	1.137	-9.503
8/13/2004 9:01	4206.2232	-23.839	-9.495	1.069	-0.045	1.134	-9.511
8/13/2004 9:06	4211.2232	-23.853	-9.492	1.072	-0.045	1.14	-9.507
8/13/2004 9:11	4216.2232	-23.856	-9.501	1.074	-0.043	1.143	-9.511
8/13/2004 9:16	4221.2232	-23.861	-9.504	1.076	-0.045	1.14	-9.516
8/13/2004 9:21	4226.2232	-23.864	-9.507	1.078	-0.045	1.14	-9.522
8/13/2004 9:26	4231.2232	-23.87	-9.512	1.081	-0.045	1.143	-9.525
8/13/2004 9:31	4236.2232	-23.873	-9.518	1.083	-0.045	1.143	-9.531
8/13/2004 9:36	4241.2232	-23.879	-9.524	1.087	-0.043	1.146	-9.535
8/13/2004 9:41	4246.2232	-23.884	-9.532	1.09	-0.045	1.146	-9.542
8/13/2004 9:46	4251.2232	-23.893	-9.535	1.09	-0.043	1.149	-9.546
8/13/2004 9:51	4256.2232	-23.899	-9.541	1.09	-0.043	1.152	-9.546
8/13/2004 9:56	4261.2232	-23.907	-9.556	1.081	-0.05	1.149	-9.557
8/13/2004 10:01	4266.2232	-23.913	-9.558	1.083	-0.05	1.149	-9.57
8/13/2004 10:06	4271.2232	-23.919	-9.564	1.083	-0.05	1.152	-9.577
8/13/2004 10:11	4276.2232	-23.921	-9.567	1.085	-0.05	1.152	-9.581
8/13/2004 10:16	4281.2232	-23.924	-9.57	1.087	-0.047	1.154	-9.586
8/13/2004 10:21	4286.2232	-23.921	-9.57	1.09	-0.045	1.157	-9.586
8/13/2004 10:26	4291.2232	-23.921	-9.573	1.092	-0.047	1.157	-9.588
8/13/2004 10:31	4296.2232	-23.924	-9.576	1.092	-0.05	1.157	-9.59
8/13/2004 10:36	4301.2232	-23.927	-9.576	1.094	-0.05	1.16	-9.592
8/13/2004 10:41	4306.2232	-23.936	-9.587	1.097	-0.052	1.16	-9.603
8/13/2004 10:46	4311.2232	-23.939	-9.59	1.099	-0.052	1.163	-9.605
8/13/2004 10:51	4316.2232	-23.947	-9.602	1.097	-0.056	1.163	-9.616
8/13/2004 10:56	4321.2232	-23.924	-9.581	1.092	-0.05	1.157	-9.603
8/13/2004 11:01	4326.2232	-23.944	-9.599	1.103	-0.059	1.163	-9.625
8/13/2004 11:06	4331.2232	-23.959	-9.61	1.106	-0.059	1.166	-9.634
8/13/2004 11:11	4336.2232	-23.967	-9.628	1.106	-0.059	1.166	-9.645
8/13/2004 11:16	4341.2232	-23.984	-9.636	1.108	-0.059	1.166	-9.651
8/13/2004 11:21	4346.2232	-23.999	-9.651	1.106	-0.063	1.166	-9.669
8/13/2004 11:26	4351.2232	-24.01	-9.662	1.103	-0.063	1.163	-9.678
8/13/2004 11:31	4356.2232	-24.019	-9.674	1.106	-0.063	1.166	-9.688
8/13/2004 11:36	4361.2232	-24.027	-9.685	1.106	-0.061	1.169	-9.697
8/13/2004 11:41	4366.2232	-24.033	-9.694	1.106	-0.061	1.169	-9.708
8/13/2004 11:46	4371.2232	-24.042	-9.702	1.103	-0.061	1.169	-9.712
8/13/2004 11:51	4376.2232	-24.042	-9.705	1.103	-0.059	1.169	-9.715
8/13/2004 11:56	4381.2232	-24.044	-9.708	1.106	-0.059	1.169	-9.719
8/13/2004 12:01	4386.2232	-24.056	-9.717	1.103	-0.063	1.169	-9.728
8/13/2004 12:06	4391.2232	-24.064	-9.728	1.101	-0.068	1.166	-9.737
8/13/2004 12:11	4396.2232	-24.076	-9.74	1.099	-0.068	1.169	-9.75
8/13/2004 12:16	4401.2232	-24.087	-9.746	1.099	-0.068	1.169	-9.758
8/13/2004 12:21	4406.2232	-24.09	-9.751	1.099	-0.065	1.166	-9.763
8/13/2004 12:26	4411.2232	-24.099	-9.76	1.097	-0.068	1.166	-9.771
8/13/2004 12:31	4416.2232	-24.107	-9.766	1.097	-0.068	1.169	-9.78
8/13/2004 12:36	4421.2232	-24.124	-9.783	1.09	-0.072	1.166	-9.791
8/13/2004 12:41	4426.2232	-24.13	-9.786	1.09	-0.074	1.169	-9.798
8/13/2004 12:46	4431.2232	-24.139	-9.8	1.087	-0.072	1.166	-9.815
8/13/2004 12:51	4436.2232	-24.147	-9.806	1.087	-0.072	1.166	-9.822
8/13/2004 12:56	4441.2232	-24.153	-9.815	1.09	-0.07	1.166	-9.831
8/13/2004 13:01	4446.2232	-24.165	-9.823	1.087	-0.072	1.166	-9.839
8/13/2004 13:06	4451.2232	-24.176	-9.838	1.081	-0.077	1.163	-9.85

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Date Time MM/DD/YYYY HH:MM	Elapse Time (minutes)	UFA APT Well XD 1 (feet)	UFA OB Well XD 2 (feet)	ICU MON Well XD 4 (feet)	SAS MON Well XD 5 (feet)	ICU APT Well XD 6 (feet)	UFA OB Well (BU) XD 7 (feet)
8/13/2004 13:11	4456.2232	-24.17	-9.835	1.083	-0.072	1.16	-9.85
8/13/2004 13:16	4461.2232	-24.173	-9.841	1.078	-0.072	1.157	-9.855
8/13/2004 13:21	4466.2232	-24.179	-9.841	1.083	-0.072	1.16	-9.863
8/13/2004 13:26	4471.2232	-24.176	-9.844	1.074	-0.072	1.157	-9.859
8/13/2004 13:31	4476.2232	-24.182	-9.849	1.083	-0.074	1.16	-9.868
8/13/2004 13:36	4481.2232	-24.196	-9.864	1.081	-0.077	1.16	-9.879
8/13/2004 13:41	4486.2232	-24.205	-9.867	1.081	-0.074	1.163	-9.885
8/13/2004 13:46	4491.2232	-24.202	-9.878	1.078	-0.077	1.16	-9.892
8/13/2004 13:51	4496.2232	-24.21	-9.884	1.078	-0.077	1.16	-9.896
8/13/2004 13:56	4501.2232	-24.216	-9.89	1.072	-0.077	1.157	-9.905
8/13/2004 14:01	4506.2232	-24.233	-9.901	1.072	-0.081	1.154	-9.916
8/13/2004 14:06	4511.2232	-24.245	-9.916	1.069	-0.081	1.157	-9.929
8/13/2004 14:11	4516.2232	-24.262	-9.927	1.069	-0.083	1.157	-9.942
8/13/2004 14:16	4521.2232	-24.276	-9.941	1.067	-0.083	1.154	-9.957
8/13/2004 14:21	4526.2232	-24.293	-9.962	1.062	-0.088	1.152	-9.975
8/13/2004 14:26	4531.2232	-24.296	-9.97	1.062	-0.083	1.152	-9.979
8/13/2004 14:31	4536.2232	-24.308	-9.979	1.058	-0.086	1.152	-9.994
8/13/2004 14:36	4541.2232	-24.31	-9.985	1.058	-0.083	1.149	-9.999
8/13/2004 14:41	4546.2232	-24.322	-9.988	1.053	-0.086	1.149	-10.003
8/13/2004 14:46	4551.2232	-24.33	-9.999	1.053	-0.09	1.149	-10.014
8/13/2004 14:51	4556.2232	-24.339	-10.013	1.056	-0.09	1.149	-10.025
8/13/2004 14:56	4561.2232	-24.35	-10.025	1.049	-0.099	1.146	-10.036
8/13/2004 15:01	4566.2232	-24.353	-10.031	1.042	-0.097	1.152	-10.051
8/13/2004 15:06	4571.2232	-24.37	-10.042	1.044	-0.099	1.146	-10.06
8/13/2004 15:11	4576.2232	-24.368	-10.057	1.047	-0.088	1.143	-10.067
8/13/2004 15:16	4581.2232	-24.393	-10.065	1.042	-0.095	1.143	-10.08
8/13/2004 15:21	4586.2232	-24.405	-10.083	1.033	-0.099	1.14	-10.095
8/13/2004 15:26	4591.2232	-24.416	-10.094	1.04	-0.097	1.146	-10.106
8/13/2004 15:31	4596.2232	-24.436	-10.109	1.033	-0.102	1.134	-10.126
8/13/2004 15:36	4601.2232	-24.448	-10.126	1.028	-0.106	1.128	-10.147
8/13/2004 15:41	4606.2232	-24.473	-10.149	1.026	-0.108	1.134	-10.158
8/13/2004 15:46	4611.2232	-24.468	-10.158	1.042	-0.095	1.14	-10.165
8/13/2004 15:51	4616.2232	-24.505	-10.178	1.022	-0.113	1.131	-10.193
8/13/2004 15:56	4621.2232	-24.491	-10.175	1.026	-0.086	1.128	-10.187
8/13/2004 16:01	4626.2232	-24.491	-10.166	1.008	-0.113	1.137	-10.211
8/13/2004 16:06	4631.2232	-24.531	-10.201	1.006	-0.102	1.123	-10.215
8/13/2004 16:11	4636.2232	-24.551	-10.227	1.001	-0.117	1.12	-10.248
8/13/2004 16:16	4641.2232	-24.585	-10.25	1.001	-0.129	1.108	-10.259
8/13/2004 16:21	4646.2232	-24.588	-10.264	0.992	-0.126	1.105	-10.276
8/13/2004 16:26	4651.2232	-24.576	-10.27	0.996	-0.117	1.1	-10.294
8/13/2004 16:31	4656.2232	-24.625	-10.299	0.999	-0.129	1.097	-10.309
8/13/2004 16:36	4661.2232	-24.625	-10.313	0.994	-0.122	1.105	-10.335
8/13/2004 16:41	4666.2232	-24.625	-10.307	0.974	-0.131	1.094	-10.335
8/13/2004 16:46	4671.2232	-24.619	-10.307	0.978	-0.122	1.131	-10.338
8/13/2004 16:51	4676.2232	-24.636	-10.342	0.965	-0.151	1.076	-10.349
8/13/2004 16:56	4681.2232	-24.648	-10.342	0.965	-0.135	1.053	-10.368
8/13/2004 17:01	4686.2232	-24.639	-10.35	0.953	-0.126	1.085	-10.355
8/13/2004 17:06	4691.2232	-24.645	-10.33	0.94	-0.129	1.1	-10.355
8/13/2004 17:11	4696.2232	-24.616	-10.319	0.942	-0.115	1.076	-10.349
8/13/2004 17:16	4701.2232	-24.605	-10.296	0.942	-0.113	1.068	-10.303
8/13/2004 17:21	4706.2232	-24.608	-10.299	0.937	-0.124	1.097	-10.32
8/13/2004 17:26	4711.2232	-24.602	-10.287	0.931	-0.122	1.059	-10.305
8/13/2004 17:31	4716.2232	-24.565	-10.267	0.94	-0.099	1.065	-10.285
8/13/2004 17:36	4721.2232	-24.571	-10.261	0.931	-0.115	1.059	-10.296

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Date Time MM/DD/YYYY HH:MM	Elapse Time (minutes)	UFA APT Well XD 1 (feet)	UFA OB Well XD 2 (feet)	ICU MON Well XD 4 (feet)	SAS MON Well XD 5 (feet)	ICU APT Well XD 6 (feet)	UFA OB Well (BU) XD 7 (feet)
8/13/2004 17:41	4726.2232	-24.562	-10.261	0.937	-0.113	1.053	-10.283
8/13/2004 17:46	4731.2232	-24.545	-10.25	0.942	-0.102	1.068	-10.261
8/13/2004 17:51	4736.2232	-24.556	-10.247	0.926	-0.108	1.053	-10.265
8/13/2004 17:56	4741.2232	-24.536	-10.235	0.931	-0.108	1.053	-10.255
8/13/2004 18:01	4746.2232	-24.539	-10.232	0.924	-0.111	1.053	-10.255
8/13/2004 18:06	4751.2232	-24.525	-10.232	0.924	-0.108	1.048	-10.25
8/13/2004 18:11	4756.2232	-24.525	-10.221	0.915	-0.108	1.048	-10.233
8/13/2004 18:16	4761.2232	-24.513	-10.215	0.915	-0.108	1.042	-10.228
8/13/2004 18:21	4766.2232	-24.513	-10.204	0.908	-0.115	1.051	-10.231
8/13/2004 18:26	4771.2232	-24.505	-10.209	0.912	-0.111	1.042	-10.226
8/13/2004 18:31	4776.2232	-24.499	-10.201	0.908	-0.113	1.039	-10.217
8/13/2004 18:36	4781.2232	-24.493	-10.201	0.908	-0.108	1.039	-10.213
8/13/2004 18:41	4786.2232	-24.493	-10.189	0.905	-0.111	1.042	-10.211
8/13/2004 18:46	4791.2232	-24.496	-10.192	0.905	-0.113	1.036	-10.211
8/13/2004 18:51	4796.2232	-24.488	-10.192	0.903	-0.111	1.039	-10.206
8/13/2004 18:56	4801.2232	-24.491	-10.192	0.903	-0.113	1.036	-10.206
8/13/2004 19:01	4806.2232	-24.488	-10.189	0.901	-0.115	1.039	-10.202
8/13/2004 19:06	4811.2232	-24.488	-10.189	0.901	-0.115	1.033	-10.206
8/13/2004 19:11	4816.2232	-24.488	-10.192	0.896	-0.117	1.033	-10.206
8/13/2004 19:16	4821.2232	-24.485	-10.192	0.901	-0.113	1.036	-10.206
8/13/2004 19:21	4826.2232	-24.485	-10.189	0.894	-0.117	1.033	-10.206
8/13/2004 19:26	4831.2232	-24.491	-10.189	0.894	-0.115	1.036	-10.206
8/13/2004 19:31	4836.2232	-24.491	-10.192	0.894	-0.115	1.036	-10.206
8/13/2004 19:36	4841.2232	-24.491	-10.192	0.894	-0.117	1.036	-10.213
8/13/2004 19:41	4846.2232	-24.493	-10.195	0.892	-0.117	1.033	-10.213
8/13/2004 19:46	4851.2232	-24.493	-10.195	0.89	-0.117	1.033	-10.211
8/13/2004 19:51	4856.2232	-24.499	-10.198	0.89	-0.12	1.033	-10.215
8/13/2004 19:56	4861.2232	-24.496	-10.195	0.892	-0.117	1.036	-10.215
8/13/2004 20:01	4866.2232	-24.502	-10.204	0.887	-0.117	1.033	-10.217
8/13/2004 20:06	4871.2232	-24.502	-10.204	0.89	-0.122	1.033	-10.22
8/13/2004 20:11	4876.2232	-24.508	-10.204	0.89	-0.122	1.03	-10.22
8/13/2004 20:16	4881.2232	-24.505	-10.206	0.89	-0.122	1.033	-10.22
8/13/2004 20:21	4886.2232	-24.508	-10.206	0.89	-0.122	1.033	-10.222
8/13/2004 20:26	4891.2232	-24.508	-10.209	0.887	-0.124	1.033	-10.224
8/13/2004 20:31	4896.2232	-24.505	-10.209	0.887	-0.122	1.033	-10.224
8/13/2004 20:36	4901.2232	-24.505	-10.209	0.887	-0.124	1.033	-10.226
8/13/2004 20:41	4906.2232	-24.502	-10.206	0.89	-0.124	1.033	-10.22
8/13/2004 20:46	4911.2232	-24.502	-10.209	0.885	-0.124	1.033	-10.226
8/13/2004 20:51	4916.2232	-24.499	-10.206	0.887	-0.129	1.033	-10.224
8/13/2004 20:56	4921.2232	-24.502	-10.209	0.885	-0.129	1.033	-10.226
8/13/2004 21:01	4926.2232	-24.505	-10.212	0.885	-0.133	1.033	-10.226
8/13/2004 21:06	4931.2232	-24.505	-10.215	0.885	-0.131	1.033	-10.228
8/13/2004 21:11	4936.2232	-24.502	-10.212	0.883	-0.133	1.033	-10.228
8/13/2004 21:16	4941.2232	-24.502	-10.212	0.885	-0.131	1.033	-10.231
8/13/2004 21:21	4946.2232	-24.499	-10.209	0.885	-0.131	1.033	-10.231
8/13/2004 21:26	4951.2232	-24.499	-10.209	0.883	-0.131	1.033	-10.226
8/13/2004 21:31	4956.2232	-24.499	-10.209	0.883	-0.133	1.033	-10.226
8/13/2004 21:36	4961.2232	-24.499	-10.209	0.883	-0.133	1.033	-10.231
8/13/2004 21:41	4966.2232	-24.499	-10.212	0.883	-0.135	1.033	-10.231
8/13/2004 21:46	4971.2232	-24.502	-10.215	0.883	-0.135	1.033	-10.233
8/13/2004 21:51	4976.2232	-24.505	-10.215	0.88	-0.14	1.033	-10.233
8/13/2004 21:56	4981.2232	-24.505	-10.218	0.883	-0.135	1.033	-10.237
8/13/2004 22:01	4986.2232	-24.505	-10.218	0.88	-0.14	1.033	-10.237
8/13/2004 22:06	4991.2232	-24.505	-10.221	0.883	-0.138	1.033	-10.239

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Date Time MM/DD/YYYY HH:MM	Elapse Time (minutes)	UFA APT Well XD 1 (feet)	UFA OB Well XD 2 (feet)	ICU MON Well XD 4 (feet)	SAS MON Well XD 5 (feet)	ICU APT Well XD 6 (feet)	UFA OB Well (BU) XD 7 (feet)
8/13/2004 22:11	4996.2232	-24.511	-10.224	0.883	-0.14	1.033	-10.244
8/13/2004 22:16	5001.2232	-24.516	-10.23	0.88	-0.142	1.036	-10.248
8/13/2004 22:21	5006.2232	-24.519	-10.232	0.88	-0.142	1.033	-10.25
8/13/2004 22:26	5011.2232	-24.519	-10.232	0.88	-0.144	1.033	-10.252
8/13/2004 22:31	5016.2232	-24.525	-10.238	0.88	-0.144	1.036	-10.257
8/13/2004 22:36	5021.2232	-24.533	-10.244	0.878	-0.144	1.033	-10.261
8/13/2004 22:41	5026.2232	-24.536	-10.247	0.88	-0.147	1.033	-10.263
8/13/2004 22:46	5031.2232	-24.539	-10.253	0.878	-0.147	1.033	-10.27
8/13/2004 22:51	5036.2232	-24.545	-10.255	0.878	-0.147	1.033	-10.274
8/13/2004 22:56	5041.2232	-24.551	-10.264	0.878	-0.147	1.036	-10.279
8/13/2004 23:01	5046.2232	-24.551	-10.264	0.878	-0.147	1.033	-10.283
8/13/2004 23:06	5051.2232	-24.556	-10.267	0.878	-0.149	1.036	-10.287
8/13/2004 23:11	5056.2232	-24.562	-10.276	0.876	-0.151	1.033	-10.292
8/13/2004 23:16	5061.2232	-24.565	-10.278	0.876	-0.151	1.033	-10.298
8/13/2004 23:21	5066.2232	-24.571	-10.284	0.876	-0.151	1.033	-10.303
8/13/2004 23:26	5071.2232	-24.576	-10.29	0.876	-0.153	1.033	-10.307
8/13/2004 23:31	5076.2232	-24.579	-10.293	0.876	-0.151	1.033	-10.311
8/13/2004 23:36	5081.2232	-24.585	-10.299	0.874	-0.156	1.033	-10.316
8/13/2004 23:41	5086.2232	-24.591	-10.304	0.874	-0.156	1.033	-10.322
8/13/2004 23:46	5091.2232	-24.596	-10.31	0.876	-0.153	1.033	-10.329
8/13/2004 23:51	5096.2232	-24.608	-10.316	0.874	-0.156	1.033	-10.333
8/13/2004 23:56	5101.2232	-24.611	-10.322	0.874	-0.156	1.03	-10.342
8/14/2004 0:01	5106.2232	-24.619	-10.327	0.874	-0.158	1.033	-10.349
8/14/2004 0:06	5111.2232	-24.622	-10.333	0.876	-0.16	1.03	-10.355
8/14/2004 0:11	5116.2232	-24.628	-10.342	0.871	-0.16	1.03	-10.359
8/14/2004 0:16	5121.2232	-24.634	-10.348	0.871	-0.16	1.03	-10.364
8/14/2004 0:21	5126.2232	-24.642	-10.35	0.871	-0.162	1.03	-10.37
8/14/2004 0:26	5131.2232	-24.648	-10.359	0.871	-0.162	1.03	-10.377
8/14/2004 0:31	5136.2232	-24.654	-10.362	0.871	-0.162	1.03	-10.384
8/14/2004 0:36	5141.2232	-24.656	-10.368	0.871	-0.162	1.03	-10.388
8/14/2004 0:41	5146.2232	-24.668	-10.376	0.871	-0.167	1.03	-10.394
8/14/2004 0:46	5151.2232	-24.671	-10.382	0.871	-0.165	1.03	-10.403
8/14/2004 0:51	5156.2232	-24.679	-10.388	0.869	-0.165	1.03	-10.408
8/14/2004 0:56	5161.2232	-24.682	-10.394	0.869	-0.167	1.03	-10.412
8/14/2004 1:01	5166.2232	-24.694	-10.399	0.869	-0.169	1.027	-10.421
8/14/2004 1:06	5171.2232	-24.699	-10.405	0.869	-0.167	1.03	-10.427
8/14/2004 1:11	5176.2232	-24.705	-10.411	0.867	-0.169	1.027	-10.432
8/14/2004 1:16	5181.2232	-24.714	-10.42	0.867	-0.169	1.027	-10.44
8/14/2004 1:21	5186.2232	-24.719	-10.428	0.865	-0.172	1.027	-10.447
8/14/2004 1:26	5191.2232	-24.725	-10.434	0.865	-0.174	1.025	-10.453
8/14/2004 1:31	5196.2232	-24.734	-10.443	0.862	-0.174	1.027	-10.46
8/14/2004 1:36	5201.2232	-24.739	-10.448	0.862	-0.174	1.027	-10.469
8/14/2004 1:41	5206.2232	-24.742	-10.454	0.862	-0.174	1.027	-10.473
8/14/2004 1:46	5211.2232	-24.745	-10.454	0.862	-0.174	1.025	-10.475
8/14/2004 1:51	5216.2232	-24.745	-10.457	0.862	-0.176	1.025	-10.478
8/14/2004 1:56	5221.2232	-24.748	-10.463	0.86	-0.176	1.025	-10.482
8/14/2004 2:01	5226.2232	-24.748	-10.466	0.86	-0.176	1.025	-10.484
8/14/2004 2:06	5231.2232	-24.751	-10.466	0.86	-0.176	1.025	-10.486
8/14/2004 2:11	5236.2232	-24.754	-10.471	0.858	-0.183	1.025	-10.491
8/14/2004 2:16	5241.2232	-24.754	-10.471	0.858	-0.181	1.022	-10.493
8/14/2004 2:21	5246.2232	-24.754	-10.474	0.855	-0.183	1.022	-10.495
8/14/2004 2:26	5251.2232	-24.757	-10.474	0.855	-0.183	1.022	-10.497
8/14/2004 2:31	5256.2232	-24.757	-10.477	0.853	-0.185	1.022	-10.497
8/14/2004 2:36	5261.2232	-24.757	-10.477	0.853	-0.185	1.022	-10.497

RECOVERY PHASE

Date Time MM/DD/YYYY HH:MM	Elapse Time (minutes)	UFA APT Well XD 1 (feet)	UFA OB Well XD 2 (feet)	ICU MON Well XD 4 (feet)	SAS MON Well XD 5 (feet)	ICU APT Well XD 6 (feet)	UFA OB Well (BU) XD 7 (feet)
8/14/2004 2:41	5266.2232	-24.759	-10.48	0.853	-0.185	1.022	-10.502
8/14/2004 2:46	5271.2232	-24.759	-10.48	0.851	-0.185	1.019	-10.502
8/14/2004 2:51	5276.2232	-24.759	-10.483	0.851	-0.187	1.019	-10.504
8/14/2004 2:56	5281.2232	-24.765	-10.486	0.853	-0.187	1.019	-10.506
8/14/2004 3:01	5286.2232	-24.771	-10.489	0.849	-0.187	1.019	-10.51
8/14/2004 3:06	5291.2232	-24.774	-10.492	0.849	-0.19	1.013	-10.51
8/14/2004 3:11	5296.2232	-24.777	-10.497	0.849	-0.19	1.013	-10.517
8/14/2004 3:16	5301.2232	-24.779	-10.497	0.849	-0.19	1.013	-10.519
8/14/2004 3:21	5306.2232	-24.785	-10.506	0.846	-0.192	1.013	-10.528
8/14/2004 3:26	5311.2232	-24.785	-10.509	0.846	-0.192	1.016	-10.528
8/14/2004 3:31	5316.2232	-24.791	-10.512	0.846	-0.194	1.01	-10.532
8/14/2004 3:36	5321.2232	-24.794	-10.515	0.844	-0.194	1.016	-10.537
8/14/2004 3:41	5326.2232	-24.799	-10.52	0.844	-0.194	1.01	-10.539
8/14/2004 3:46	5331.2232	-24.799	-10.52	0.844	-0.196	1.01	-10.543
8/14/2004 3:51	5336.2232	-24.805	-10.526	0.844	-0.196	1.01	-10.548
8/14/2004 3:56	5341.2232	-24.805	-10.529	0.842	-0.196	1.01	-10.55
8/14/2004 4:01	5346.2232	-24.808	-10.529	0.842	-0.196	1.007	-10.554
8/14/2004 4:06	5351.2232	-24.811	-10.535	0.842	-0.199	1.007	-10.556
8/14/2004 4:11	5356.2232	-24.814	-10.538	0.84	-0.199	1.007	-10.561
8/14/2004 4:16	5361.2232	-24.814	-10.541	0.84	-0.199	1.007	-10.561
8/14/2004 4:21	5366.2232	-24.817	-10.541	0.837	-0.199	1.004	-10.563
8/14/2004 4:26	5371.2232	-24.817	-10.541	0.837	-0.201	1.007	-10.563
8/14/2004 4:31	5376.2232	-24.819	-10.544	0.837	-0.201	1.01	-10.565
8/14/2004 4:36	5381.2232	-24.822	-10.546	0.837	-0.203	1.004	-10.567
8/14/2004 4:41	5386.2232	-24.822	-10.546	0.833	-0.201	1.004	-10.569
8/14/2004 4:46	5391.2232	-24.825	-10.549	0.835	-0.203	1.007	-10.572
8/14/2004 4:51	5396.2232	-24.825	-10.552	0.835	-0.203	1.007	-10.574
8/14/2004 4:56	5401.2232	-24.831	-10.555	0.835	-0.205	1.007	-10.576
8/14/2004 5:01	5406.2232	-24.831	-10.558	0.835	-0.205	1.007	-10.578
8/14/2004 5:06	5411.2232	-24.834	-10.558	0.835	-0.205	1.004	-10.578
8/14/2004 5:11	5416.2232	-24.837	-10.561	0.835	-0.205	1.004	-10.582
8/14/2004 5:16	5421.2232	-24.834	-10.564	0.833	-0.208	1.004	-10.582
8/14/2004 5:21	5426.2232	-24.834	-10.564	0.833	-0.208	1.004	-10.582
8/14/2004 5:26	5431.2232	-24.834	-10.564	0.835	-0.21	1.004	-10.582
8/14/2004 5:31	5436.2232	-24.831	-10.561	0.833	-0.21	1.004	-10.58
8/14/2004 5:36	5441.2232	-24.828	-10.561	0.833	-0.21	1.004	-10.578
8/14/2004 5:41	5446.2232	-24.828	-10.561	0.83	-0.21	1.004	-10.58
8/14/2004 5:46	5451.2232	-24.825	-10.558	0.833	-0.212	1.004	-10.578
8/14/2004 5:51	5456.2232	-24.822	-10.558	0.83	-0.212	1.001	-10.576
8/14/2004 5:56	5461.2232	-24.825	-10.558	0.83	-0.212	1.001	-10.578
8/14/2004 6:01	5466.2232	-24.819	-10.558	0.83	-0.212	1.001	-10.576
8/14/2004 6:06	5471.2232	-24.819	-10.558	0.828	-0.212	1.004	-10.576
8/14/2004 6:11	5476.2232	-24.819	-10.555	0.826	-0.214	1.004	-10.574
8/14/2004 6:16	5481.2232	-24.822	-10.558	0.826	-0.214	1.004	-10.576
8/14/2004 6:21	5486.2232	-24.822	-10.558	0.826	-0.214	1.001	-10.578
8/14/2004 6:26	5491.2232	-24.822	-10.561	0.826	-0.214	0.999	-10.578
8/14/2004 6:31	5496.2232	-24.825	-10.561	0.824	-0.214	1.001	-10.578
8/14/2004 6:36	5501.2232	-24.828	-10.564	0.824	-0.217	1.001	-10.582
8/14/2004 6:41	5506.2232	-24.825	-10.564	0.826	-0.214	1.001	-10.585
8/14/2004 6:46	5511.2232	-24.84	-10.572	0.814	-0.226	0.996	-10.589
8/14/2004 6:51	5516.2232	-24.822	-10.561	0.828	-0.214	1.001	-10.587
8/14/2004 6:56	5521.2232	-24.84	-10.569	0.819	-0.221	0.999	-10.591
8/14/2004 7:01	5526.2232	-24.842	-10.575	0.819	-0.221	0.999	-10.591
8/14/2004 7:06	5531.2232	-24.84	-10.575	0.821	-0.217	1.001	-10.591

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Date Time MM/DD/YYYY HH:MM	Elapse Time (minutes)	UFA APT Well XD 1 (feet)	UFA OB Well XD 2 (feet)	ICU MON Well XD 4 (feet)	SAS MON Well XD 5 (feet)	ICU APT Well XD 6 (feet)	UFA OB Well (BU) XD 7 (feet)
8/14/2004 7:11	5536.2232	-24.845	-10.578	0.817	-0.226	0.999	-10.598
8/14/2004 7:16	5541.2232	-24.842	-10.575	0.821	-0.221	1.001	-10.593
8/14/2004 7:21	5546.2232	-24.845	-10.581	0.819	-0.223	1.001	-10.596
8/14/2004 7:26	5551.2232	-24.854	-10.587	0.812	-0.23	0.999	-10.607
8/14/2004 7:31	5556.2232	-24.834	-10.572	0.828	-0.214	1.004	-10.596
8/14/2004 7:36	5561.2232	-24.845	-10.581	0.812	-0.226	0.999	-10.604
8/14/2004 7:41	5566.2232	-24.828	-10.569	0.826	-0.219	1.004	-10.596
8/14/2004 7:46	5571.2232	-24.837	-10.578	0.826	-0.221	1.001	-10.598
8/14/2004 7:51	5576.2232	-24.851	-10.587	0.805	-0.235	0.996	-10.6
8/14/2004 7:56	5581.2232	-24.834	-10.578	0.819	-0.223	1.001	-10.596
8/14/2004 8:01	5586.2232	-24.834	-10.572	0.819	-0.226	1.001	-10.593
8/14/2004 8:06	5591.2232	-24.834	-10.575	0.814	-0.23	1.001	-10.591
8/14/2004 8:11	5596.2232	-24.828	-10.572	0.817	-0.23	1.001	-10.591
8/14/2004 8:16	5601.2232	-24.814	-10.564	0.821	-0.226	1.004	-10.591
8/14/2004 8:21	5606.2232	-24.811	-10.561	0.826	-0.221	1.007	-10.589
8/14/2004 8:26	5611.2232	-24.828	-10.575	0.812	-0.232	1.004	-10.589
8/14/2004 8:31	5616.2232	-24.831	-10.575	0.814	-0.232	1.007	-10.589
8/14/2004 8:36	5621.2232	-24.837	-10.581	0.81	-0.235	0.999	-10.602
8/14/2004 8:41	5626.2232	-24.834	-10.581	0.808	-0.235	0.999	-10.609
8/14/2004 8:46	5631.2232	-24.828	-10.569	0.805	-0.235	0.999	-10.602
8/14/2004 8:51	5636.2232	-24.817	-10.564	0.81	-0.235	0.999	-10.593
8/14/2004 8:56	5641.2232	-24.819	-10.564	0.81	-0.239	1.001	-10.593
8/14/2004 9:01	5646.2232	-24.822	-10.567	0.812	-0.237	1.001	-10.593
8/14/2004 9:06	5651.2232	-24.817	-10.564	0.812	-0.237	1.001	-10.591
8/14/2004 9:11	5656.2232	-24.819	-10.561	0.812	-0.239	1.004	-10.589
8/14/2004 9:16	5661.2232	-24.817	-10.564	0.812	-0.239	1.001	-10.589
8/14/2004 9:21	5666.2232	-24.814	-10.564	0.812	-0.241	1.004	-10.587
8/14/2004 9:26	5671.2232	-24.819	-10.567	0.814	-0.241	1.001	-10.589
8/14/2004 9:31	5676.2232	-24.811	-10.561	0.821	-0.237	1.007	-10.587
8/14/2004 9:36	5681.2232	-24.805	-10.552	0.833	-0.23	1.01	-10.578
8/14/2004 9:41	5686.2232	-24.814	-10.561	0.819	-0.241	1.007	-10.572
8/14/2004 9:46	5691.2232	-24.822	-10.575	0.819	-0.241	1.004	-10.585
8/14/2004 9:51	5696.2232	-24.831	-10.572	0.812	-0.248	1.007	-10.585
8/14/2004 9:56	5701.2232	-24.848	-10.59	0.792	-0.262	0.999	-10.598
8/14/2004 10:01	5706.2232	-24.837	-10.587	0.803	-0.255	1.001	-10.607
8/14/2004 10:06	5711.2232	-24.828	-10.575	0.81	-0.248	1.004	-10.604
8/14/2004 10:11	5716.2232	-24.791	-10.541	0.844	-0.223	1.016	-10.585
8/14/2004 10:16	5721.2232	-24.834	-10.575	0.803	-0.255	1.01	-10.589
8/14/2004 10:21	5726.2232	-24.828	-10.575	0.808	-0.251	1.007	-10.587
8/14/2004 10:26	5731.2232	-24.828	-10.581	0.81	-0.248	1.007	-10.591
8/14/2004 10:31	5736.2232	-24.828	-10.578	0.812	-0.253	1.007	-10.593
8/14/2004 10:36	5741.2232	-24.845	-10.595	0.803	-0.262	1.001	-10.609
8/14/2004 10:41	5746.2232	-24.842	-10.587	0.81	-0.255	1.007	-10.611
8/14/2004 10:46	5751.2232	-24.842	-10.598	0.812	-0.253	1.007	-10.615
8/14/2004 10:51	5756.2232	-24.848	-10.595	0.808	-0.255	1.007	-10.615
8/14/2004 10:56	5761.2232	-24.834	-10.584	0.819	-0.248	1.007	-10.613
8/14/2004 11:01	5766.2232	-24.854	-10.604	0.799	-0.266	0.999	-10.626
8/14/2004 11:06	5771.2232	-24.848	-10.598	0.808	-0.264	0.996	-10.635
8/14/2004 11:11	5776.2232	-24.842	-10.59	0.826	-0.26	1.004	-10.633
8/14/2004 11:16	5781.2232	-24.848	-10.598	0.826	-0.26	1.001	-10.631
8/14/2004 11:21	5786.2232	-24.84	-10.59	0.828	-0.253	0.999	-10.626
8/14/2004 11:26	5791.2232	-24.84	-10.592	0.833	-0.26	0.999	-10.62
8/14/2004 11:31	5796.2232	-24.842	-10.592	0.844	-0.257	1.001	-10.622
8/14/2004 11:36	5801.2232	-24.851	-10.595	0.849	-0.26	1.004	-10.624

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Date Time MM/DD/YYYY HH:MM	Elapse Time (minutes)	UFA APT Well XD 1 (feet)	UFA OB Well XD 2 (feet)	ICU MON Well XD 4 (feet)	SAS MON Well XD 5 (feet)	ICU APT Well XD 6 (feet)	UFA OB Well (BU) XD 7 (feet)
8/14/2004 11:41	5806.2232	-24.857	-10.604	0.851	-0.262	1.004	-10.631
8/14/2004 11:46	5811.2232	-24.868	-10.613	0.851	-0.262	1.004	-10.635
8/14/2004 11:51	5816.2232	-24.874	-10.618	0.853	-0.26	1.001	-10.642
8/14/2004 11:56	5821.2232	-24.874	-10.621	0.855	-0.262	1.004	-10.644
8/14/2004 12:01	5826.2232	-24.885	-10.63	0.858	-0.264	1.001	-10.652
8/14/2004 12:06	5831.2232	-24.897	-10.641	0.855	-0.269	1.004	-10.666
8/14/2004 12:11	5836.2232	-24.902	-10.644	0.855	-0.266	1.004	-10.668
8/14/2004 12:16	5841.2232	-24.902	-10.644	0.858	-0.257	1.004	-10.668
8/14/2004 12:21	5846.2232	-24.914	-10.65	0.851	-0.269	1.001	-10.67
8/14/2004 12:26	5851.2232	-24.911	-10.656	0.851	-0.266	1.001	-10.674
8/14/2004 12:31	5856.2232	-24.922	-10.667	0.842	-0.273	0.999	-10.685
8/14/2004 12:36	5861.2232	-24.925	-10.67	0.84	-0.271	0.999	-10.69
8/14/2004 12:41	5866.2232	-24.917	-10.665	0.844	-0.269	0.999	-10.692
8/14/2004 12:46	5871.2232	-24.92	-10.667	0.844	-0.266	0.999	-10.692
8/14/2004 12:51	5876.2232	-24.925	-10.667	0.84	-0.271	0.996	-10.694
8/14/2004 12:56	5881.2232	-24.931	-10.67	0.844	-0.271	0.996	-10.694
8/14/2004 13:01	5886.2232	-24.931	-10.679	0.846	-0.273	0.996	-10.701
8/14/2004 13:06	5891.2232	-24.945	-10.682	0.835	-0.28	0.99	-10.705
8/14/2004 13:11	5896.2232	-24.951	-10.688	0.849	-0.278	0.993	-10.714
8/14/2004 13:16	5901.2232	-24.951	-10.693	0.855	-0.275	0.993	-10.72
8/14/2004 13:21	5906.2232	-24.954	-10.699	0.86	-0.275	0.996	-10.727
8/14/2004 13:26	5911.2232	-24.96	-10.702	0.86	-0.278	0.99	-10.729
8/14/2004 13:31	5916.2232	-24.954	-10.705	0.865	-0.28	0.993	-10.731
8/14/2004 13:36	5921.2232	-24.963	-10.705	0.865	-0.282	0.993	-10.729
8/14/2004 13:41	5926.2232	-24.963	-10.705	0.874	-0.278	0.993	-10.733
8/14/2004 13:46	5931.2232	-24.965	-10.711	0.876	-0.278	0.993	-10.736
8/14/2004 13:51	5936.2232	-24.968	-10.719	0.878	-0.273	0.993	-10.742
8/14/2004 13:56	5941.2232	-24.98	-10.719	0.871	-0.282	0.993	-10.742
8/14/2004 14:01	5946.2232	-24.977	-10.731	0.874	-0.28	0.987	-10.749
8/14/2004 14:06	5951.2232	-24.985	-10.734	0.862	-0.287	0.984	-10.753
8/14/2004 14:11	5956.2232	-24.98	-10.734	0.86	-0.284	0.984	-10.757
8/14/2004 14:16	5961.2232	-24.968	-10.719	0.865	-0.282	0.984	-10.753
8/14/2004 14:21	5966.2232	-24.974	-10.722	0.869	-0.287	0.987	-10.76
8/14/2004 14:26	5971.2232	-24.971	-10.719	0.865	-0.284	0.981	-10.755
8/14/2004 14:31	5976.2232	-24.963	-10.713	0.867	-0.28	0.987	-10.753
8/14/2004 14:36	5981.2232	-24.985	-10.745	0.865	-0.296	0.978	-10.771
8/14/2004 14:41	5986.2232	-24.98	-10.731	0.869	-0.289	0.981	-10.773
8/14/2004 14:46	5991.2232	-24.991	-10.745	0.867	-0.293	0.978	-10.777
8/14/2004 14:51	5996.2232	-25.008	-10.757	0.867	-0.298	0.978	-10.786
8/14/2004 14:56	6001.2232	-25.02	-10.768	0.865	-0.3	0.978	-10.797
8/14/2004 15:01	6006.2232	-25.028	-10.78	0.862	-0.298	0.973	-10.806
8/14/2004 15:06	6011.2232	-25.025	-10.777	0.86	-0.293	0.973	-10.803
8/14/2004 15:11	6016.2232	-25.02	-10.768	0.858	-0.291	0.97	-10.795
8/14/2004 15:16	6021.2232	-25.017	-10.765	0.855	-0.289	0.973	-10.795
8/14/2004 15:21	6026.2232	-25.005	-10.754	0.853	-0.287	0.97	-10.786
8/14/2004 15:26	6031.2232	-25.005	-10.754	0.851	-0.291	0.97	-10.784
8/14/2004 15:31	6036.2232	-25.014	-10.768	0.853	-0.298	0.97	-10.795
8/14/2004 15:36	6041.2232	-25.025	-10.78	0.851	-0.3	0.967	-10.803
8/14/2004 15:41	6046.2232	-25.034	-10.783	0.849	-0.302	0.964	-10.812
8/14/2004 15:46	6051.2232	-25.043	-10.794	0.846	-0.305	0.964	-10.821
8/14/2004 15:51	6056.2232	-25.045	-10.8	0.844	-0.302	0.961	-10.825
8/14/2004 15:56	6061.2232	-25.045	-10.8	0.844	-0.302	0.964	-10.827
8/14/2004 16:01	6066.2232	-25.051	-10.806	0.842	-0.307	0.961	-10.834
8/14/2004 16:06	6071.2232	-25.054	-10.806	0.84	-0.302	0.961	-10.834

RECOVERY PHASE

Date Time MM/DD/YYYY HH:MM	Elapse Time (minutes)	UFA APT Well XD 1 (feet)	UFA OB Well XD 2 (feet)	ICU MON Well XD 4 (feet)	SAS MON Well XD 5 (feet)	ICU APT Well XD 6 (feet)	UFA OB Well (BU) XD 7 (feet)
8/14/2004 16:11	6076.2232	-25.048	-10.806	0.837	-0.302	0.961	-10.83
8/14/2004 16:16	6081.2232	-25.048	-10.809	0.835	-0.305	0.958	-10.832
8/14/2004 16:21	6086.2232	-25.054	-10.814	0.835	-0.307	0.958	-10.838
8/14/2004 16:26	6091.2232	-25.054	-10.811	0.83	-0.305	0.955	-10.836
8/14/2004 16:31	6096.2232	-25.051	-10.811	0.833	-0.307	0.955	-10.838
8/14/2004 16:36	6101.2232	-25.048	-10.814	0.83	-0.307	0.952	-10.843
8/14/2004 16:41	6106.2232	-25.06	-10.82	0.828	-0.309	0.952	-10.847
8/14/2004 16:46	6111.2232	-25.065	-10.823	0.826	-0.309	0.952	-10.849
8/14/2004 16:51	6116.2232	-25.063	-10.823	0.826	-0.311	0.95	-10.849
8/14/2004 16:56	6121.2232	-25.063	-10.823	0.824	-0.311	0.952	-10.849
8/14/2004 17:01	6126.2232	-25.06	-10.82	0.821	-0.311	0.95	-10.847
8/14/2004 17:06	6131.2232	-25.063	-10.82	0.819	-0.311	0.95	-10.849
8/14/2004 17:11	6136.2232	-25.065	-10.826	0.817	-0.311	0.947	-10.851
8/14/2004 17:16	6141.2232	-25.065	-10.826	0.819	-0.311	0.944	-10.851
8/14/2004 17:21	6146.2232	-25.068	-10.826	0.819	-0.311	0.944	-10.851
8/14/2004 17:26	6151.2232	-25.068	-10.826	0.814	-0.314	0.944	-10.854
8/14/2004 17:31	6156.2232	-25.068	-10.826	0.814	-0.311	0.944	-10.851
8/14/2004 17:36	6161.2232	-25.065	-10.826	0.812	-0.314	0.941	-10.851
8/14/2004 17:41	6166.2232	-25.065	-10.826	0.812	-0.316	0.941	-10.856
8/14/2004 17:46	6171.2232	-25.065	-10.826	0.812	-0.316	0.941	-10.851
8/14/2004 17:51	6176.2232	-25.06	-10.823	0.808	-0.316	0.938	-10.849
8/14/2004 17:56	6181.2232	-25.057	-10.823	0.808	-0.316	0.938	-10.847
8/14/2004 18:01	6186.2232	-25.054	-10.817	0.808	-0.318	0.938	-10.845
8/14/2004 18:06	6191.2232	-25.054	-10.82	0.808	-0.32	0.935	-10.847
8/14/2004 18:11	6196.2232	-25.057	-10.823	0.805	-0.32	0.935	-10.847
8/14/2004 18:16	6201.2232	-25.057	-10.823	0.805	-0.323	0.935	-10.849
8/14/2004 18:21	6206.2232	-25.06	-10.826	0.803	-0.325	0.935	-10.851
8/14/2004 18:26	6211.2232	-25.065	-10.832	0.801	-0.325	0.932	-10.858
8/14/2004 18:31	6216.2232	-25.071	-10.837	0.801	-0.327	0.932	-10.862
8/14/2004 18:36	6221.2232	-25.074	-10.84	0.801	-0.327	0.929	-10.867
8/14/2004 18:41	6226.2232	-25.077	-10.843	0.799	-0.327	0.929	-10.869
8/14/2004 18:46	6231.2232	-25.083	-10.846	0.799	-0.329	0.929	-10.873
8/14/2004 18:51	6236.2232	-25.086	-10.852	0.796	-0.329	0.926	-10.875
8/14/2004 18:56	6241.2232	-25.088	-10.855	0.794	-0.332	0.926	-10.884
8/14/2004 19:01	6246.2232	-25.094	-10.858	0.794	-0.329	0.926	-10.882
8/14/2004 19:06	6251.2232	-25.1	-10.86	0.792	-0.332	0.924	-10.884
8/14/2004 19:11	6256.2232	-25.1	-10.863	0.789	-0.332	0.924	-10.891
8/14/2004 19:16	6261.2232	-25.103	-10.866	0.789	-0.332	0.924	-10.893
8/14/2004 19:21	6266.2232	-25.106	-10.869	0.789	-0.334	0.921	-10.897
8/14/2004 19:26	6271.2232	-25.108	-10.875	0.787	-0.334	0.921	-10.9
8/14/2004 19:31	6276.2232	-25.108	-10.872	0.787	-0.334	0.921	-10.9
8/14/2004 19:36	6281.2232	-25.114	-10.875	0.785	-0.334	0.918	-10.902
8/14/2004 19:41	6286.2232	-25.117	-10.878	0.785	-0.336	0.918	-10.906
8/14/2004 19:46	6291.2232	-25.123	-10.883	0.783	-0.339	0.918	-10.91
8/14/2004 19:51	6296.2232	-25.126	-10.886	0.78	-0.339	0.915	-10.915
8/14/2004 19:56	6301.2232	-25.128	-10.892	0.78	-0.339	0.915	-10.917
8/14/2004 20:01	6306.2232	-25.131	-10.892	0.783	-0.339	0.912	-10.917
8/14/2004 20:06	6311.2232	-25.134	-10.895	0.778	-0.341	0.918	-10.921
8/14/2004 20:11	6316.2232	-25.137	-10.898	0.776	-0.341	0.915	-10.924
8/14/2004 20:16	6321.2232	-25.137	-10.898	0.778	-0.341	0.915	-10.924
8/14/2004 20:21	6326.2232	-25.14	-10.904	0.776	-0.343	0.915	-10.928
8/14/2004 20:26	6331.2232	-25.143	-10.907	0.774	-0.343	0.915	-10.93
8/14/2004 20:31	6336.2232	-25.148	-10.909	0.776	-0.343	0.912	-10.932
8/14/2004 20:36	6341.2232	-25.148	-10.909	0.774	-0.345	0.912	-10.935

RECOVERY PHASE

Date Time MM/DD/YYYY HH:MM	Elapse Time (minutes)	UFA APT Well XD 1 (feet)	UFA OB Well XD 2 (feet)	ICU MON Well XD 4 (feet)	SAS MON Well XD 5 (feet)	ICU APT Well XD 6 (feet)	UFA OB Well (BU) XD 7 (feet)
8/14/2004 20:41	6346.2232	-25.151	-10.912	0.771	-0.345	0.912	-10.939
8/14/2004 20:46	6351.2232	-25.157	-10.918	0.771	-0.348	0.909	-10.945
8/14/2004 20:51	6356.2232	-25.163	-10.924	0.769	-0.348	0.909	-10.95
8/14/2004 20:56	6361.2232	-25.166	-10.927	0.769	-0.348	0.909	-10.952
8/14/2004 21:01	6366.2232	-25.166	-10.93	0.767	-0.348	0.906	-10.952
8/14/2004 21:06	6371.2232	-25.168	-10.93	0.767	-0.348	0.909	-10.954
8/14/2004 21:11	6376.2232	-25.171	-10.93	0.769	-0.35	0.906	-10.956
8/14/2004 21:16	6381.2232	-25.171	-10.932	0.764	-0.35	0.906	-10.956
8/14/2004 21:21	6386.2232	-25.171	-10.932	0.764	-0.35	0.906	-10.959
8/14/2004 21:26	6391.2232	-25.174	-10.935	0.764	-0.35	0.903	-10.959
8/14/2004 21:31	6396.2232	-25.177	-10.938	0.762	-0.352	0.903	-10.963
8/14/2004 21:36	6401.2232	-25.174	-10.938	0.762	-0.352	0.903	-10.965
8/14/2004 21:41	6406.2232	-25.18	-10.941	0.76	-0.354	0.903	-10.967
8/14/2004 21:46	6411.2232	-25.18	-10.941	0.762	-0.354	0.903	-10.967
8/14/2004 21:51	6416.2232	-25.183	-10.944	0.76	-0.354	0.9	-10.97
8/14/2004 21:56	6421.2232	-25.186	-10.944	0.758	-0.354	0.9	-10.972
8/14/2004 22:01	6426.2232	-25.186	-10.95	0.76	-0.357	0.9	-10.974
8/14/2004 22:06	6431.2232	-25.189	-10.95	0.76	-0.357	0.9	-10.974
8/14/2004 22:11	6436.2232	-25.191	-10.95	0.758	-0.357	0.898	-10.976
8/14/2004 22:16	6441.2232	-25.191	-10.955	0.755	-0.357	0.898	-10.978
8/14/2004 22:21	6446.2232	-25.194	-10.958	0.758	-0.359	0.898	-10.983
8/14/2004 22:26	6451.2232	-25.2	-10.961	0.755	-0.359	0.898	-10.987
8/14/2004 22:31	6456.2232	-25.203	-10.967	0.755	-0.359	0.895	-10.991
8/14/2004 22:36	6461.2232	-25.206	-10.967	0.755	-0.359	0.895	-10.994
8/14/2004 22:41	6466.2232	-25.209	-10.967	0.755	-0.361	0.895	-10.998
8/14/2004 22:46	6471.2232	-25.211	-10.97	0.755	-0.361	0.895	-11
8/14/2004 22:51	6476.2232	-25.22	-10.973	0.755	-0.361	0.895	-11.004
8/14/2004 22:56	6481.2232	-25.223	-10.979	0.755	-0.363	0.895	-11.007
8/14/2004 23:01	6486.2232	-25.229	-10.981	0.753	-0.363	0.895	-11.011
8/14/2004 23:06	6491.2232	-25.231	-10.984	0.753	-0.363	0.892	-11.013
8/14/2004 23:11	6496.2232	-25.234	-10.987	0.753	-0.363	0.895	-11.018
8/14/2004 23:16	6501.2232	-25.237	-10.993	0.751	-0.366	0.892	-11.022
8/14/2004 23:21	6506.2232	-25.243	-10.996	0.751	-0.368	0.892	-11.026
8/14/2004 23:26	6511.2232	-25.246	-10.999	0.751	-0.368	0.892	-11.029
8/14/2004 23:31	6516.2232	-25.249	-11.002	0.751	-0.366	0.892	-11.031
8/14/2004 23:36	6521.2232	-25.249	-11.004	0.751	-0.368	0.889	-11.035
8/14/2004 23:41	6526.2232	-25.257	-11.01	0.749	-0.37	0.889	-11.039
8/14/2004 23:46	6531.2232	-25.26	-11.016	0.749	-0.37	0.889	-11.044
8/14/2004 23:51	6536.2232	-25.263	-11.016	0.749	-0.372	0.889	-11.046
8/14/2004 23:56	6541.2232	-25.269	-11.022	0.749	-0.372	0.889	-11.055
8/15/2004 0:01	6546.2232	-25.271	-11.025	0.746	-0.372	0.886	-11.057
8/15/2004 0:06	6551.2232	-25.277	-11.033	0.746	-0.375	0.886	-11.061
8/15/2004 0:11	6556.2232	-25.283	-11.036	0.746	-0.372	0.886	-11.068
8/15/2004 0:16	6561.2232	-25.289	-11.042	0.744	-0.375	0.886	-11.074
8/15/2004 0:21	6566.2232	-25.297	-11.051	0.744	-0.377	0.883	-11.081
8/15/2004 0:26	6571.2232	-25.3	-11.056	0.742	-0.377	0.886	-11.085
8/15/2004 0:31	6576.2232	-25.309	-11.062	0.742	-0.375	0.883	-11.09
8/15/2004 0:36	6581.2232	-25.317	-11.068	0.742	-0.379	0.883	-11.096
8/15/2004 0:41	6586.2232	-25.323	-11.076	0.739	-0.379	0.88	-11.101
8/15/2004 0:46	6591.2232	-25.329	-11.082	0.739	-0.379	0.88	-11.109
8/15/2004 0:51	6596.2232	-25.332	-11.085	0.735	-0.379	0.88	-11.114
8/15/2004 0:56	6601.2232	-25.337	-11.091	0.735	-0.379	0.877	-11.12
8/15/2004 1:01	6606.2232	-25.343	-11.097	0.733	-0.379	0.877	-11.123
8/15/2004 1:06	6611.2232	-25.346	-11.1	0.733	-0.379	0.877	-11.129

RECOVERY PHASE

Date Time MM/DD/YYYY HH:MM	Elapse Time (minutes)	UFA APT Well XD 1 (feet)	UFA OB Well XD 2 (feet)	ICU MON Well XD 4 (feet)	SAS MON Well XD 5 (feet)	ICU APT Well XD 6 (feet)	UFA OB Well (BU) XD 7 (feet)
8/15/2004 1:11	6616.2232	-25.349	-11.102	0.733	-0.384	0.877	-11.134
8/15/2004 1:16	6621.2232	-25.354	-11.108	0.733	-0.386	0.877	-11.138
8/15/2004 1:21	6626.2232	-25.357	-11.108	0.73	-0.384	0.874	-11.14
8/15/2004 1:26	6631.2232	-25.36	-11.117	0.728	-0.386	0.874	-11.147
8/15/2004 1:31	6636.2232	-25.369	-11.123	0.728	-0.386	0.874	-11.153
8/15/2004 1:36	6641.2232	-25.372	-11.125	0.728	-0.388	0.874	-11.158
8/15/2004 1:41	6646.2232	-25.374	-11.131	0.726	-0.388	0.872	-11.162
8/15/2004 1:46	6651.2232	-25.38	-11.137	0.724	-0.388	0.866	-11.164
8/15/2004 1:51	6656.2232	-25.386	-11.143	0.724	-0.39	0.866	-11.171
8/15/2004 1:56	6661.2232	-25.392	-11.149	0.721	-0.39	0.863	-11.177
8/15/2004 2:01	6666.2232	-25.4	-11.154	0.721	-0.39	0.863	-11.182
8/15/2004 2:06	6671.2232	-25.406	-11.16	0.721	-0.39	0.863	-11.19
8/15/2004 2:11	6676.2232	-25.412	-11.166	0.719	-0.393	0.86	-11.197
8/15/2004 2:16	6681.2232	-25.417	-11.169	0.717	-0.393	0.86	-11.199
8/15/2004 2:21	6686.2232	-25.423	-11.174	0.717	-0.393	0.86	-11.203
8/15/2004 2:26	6691.2232	-25.429	-11.18	0.714	-0.395	0.86	-11.212
8/15/2004 2:31	6696.2232	-25.435	-11.186	0.714	-0.395	0.857	-11.219
8/15/2004 2:36	6701.2232	-25.44	-11.192	0.712	-0.395	0.857	-11.223
8/15/2004 2:41	6706.2232	-25.446	-11.197	0.712	-0.397	0.854	-11.228
8/15/2004 2:46	6711.2232	-25.449	-11.2	0.712	-0.397	0.854	-11.232
8/15/2004 2:51	6716.2232	-25.452	-11.203	0.71	-0.397	0.854	-11.234
8/15/2004 2:56	6721.2232	-25.455	-11.209	0.708	-0.397	0.851	-11.241
8/15/2004 3:01	6726.2232	-25.46	-11.212	0.705	-0.399	0.851	-11.245
8/15/2004 3:06	6731.2232	-25.457	-11.215	0.705	-0.397	0.849	-11.245
8/15/2004 3:11	6736.2232	-25.463	-11.218	0.703	-0.399	0.849	-11.247
8/15/2004 3:16	6741.2232	-25.469	-11.221	0.703	-0.402	0.846	-11.254
8/15/2004 3:21	6746.2232	-25.472	-11.229	0.703	-0.402	0.846	-11.258
8/15/2004 3:26	6751.2232	-25.475	-11.232	0.701	-0.402	0.846	-11.263
8/15/2004 3:31	6756.2232	-25.477	-11.238	0.698	-0.402	0.846	-11.267
8/15/2004 3:36	6761.2232	-25.483	-11.238	0.698	-0.402	0.843	-11.269
8/15/2004 3:41	6766.2232	-25.483	-11.241	0.698	-0.402	0.84	-11.271
8/15/2004 3:46	6771.2232	-25.486	-11.246	0.696	-0.404	0.84	-11.276
8/15/2004 3:51	6776.2232	-25.492	-11.246	0.694	-0.404	0.84	-11.278
8/15/2004 3:56	6781.2232	-25.497	-11.252	0.694	-0.406	0.84	-11.28
8/15/2004 4:01	6786.2232	-25.5	-11.255	0.692	-0.406	0.837	-11.284
8/15/2004 4:06	6791.2232	-25.5	-11.258	0.692	-0.406	0.837	-11.287
8/15/2004 4:11	6796.2232	-25.5	-11.258	0.689	-0.406	0.837	-11.289
8/15/2004 4:16	6801.2232	-25.503	-11.261	0.689	-0.408	0.834	-11.291
8/15/2004 4:21	6806.2232	-25.506	-11.261	0.689	-0.408	0.834	-11.293
8/15/2004 4:26	6811.2232	-25.509	-11.264	0.687	-0.408	0.834	-11.295
8/15/2004 4:31	6816.2232	-25.512	-11.27	0.685	-0.411	0.831	-11.3
8/15/2004 4:36	6821.2232	-25.509	-11.267	0.685	-0.408	0.831	-11.298
8/15/2004 4:41	6826.2232	-25.509	-11.267	0.685	-0.411	0.828	-11.298
8/15/2004 4:46	6831.2232	-25.512	-11.27	0.683	-0.411	0.828	-11.302
8/15/2004 4:51	6836.2232	-25.509	-11.27	0.683	-0.411	0.828	-11.3
8/15/2004 4:56	6841.2232	-25.509	-11.27	0.68	-0.408	0.825	-11.3
8/15/2004 5:01	6846.2232	-25.509	-11.27	0.68	-0.408	0.825	-11.3
8/15/2004 5:06	6851.2232	-25.506	-11.27	0.68	-0.411	0.825	-11.298
8/15/2004 5:11	6856.2232	-25.506	-11.27	0.678	-0.413	0.825	-11.298
8/15/2004 5:16	6861.2232	-25.509	-11.27	0.678	-0.413	0.823	-11.298
8/15/2004 5:21	6866.2232	-25.509	-11.27	0.678	-0.415	0.823	-11.298
8/15/2004 5:26	6871.2232	-25.509	-11.27	0.676	-0.413	0.823	-11.3
8/15/2004 5:31	6876.2232	-25.509	-11.27	0.676	-0.415	0.82	-11.3
8/15/2004 5:36	6881.2232	-25.512	-11.272	0.676	-0.415	0.82	-11.302

RECOVERY PHASE

Date Time MM/DD/YYYY HH:MM	Elapse Time (minutes)	UFA APT Well XD 1 (feet)	UFA OB Well XD 2 (feet)	ICU MON Well XD 4 (feet)	SAS MON Well XD 5 (feet)	ICU APT Well XD 6 (feet)	UFA OB Well (BU) XD 7 (feet)
8/15/2004 5:41	6886.2232	-25.509	-11.272	0.673	-0.415	0.82	-11.3
8/15/2004 5:46	6891.2232	-25.509	-11.272	0.673	-0.415	0.82	-11.302
8/15/2004 5:51	6896.2232	-25.509	-11.272	0.673	-0.413	0.817	-11.298
8/15/2004 5:56	6901.2232	-25.506	-11.27	0.673	-0.415	0.82	-11.298
8/15/2004 6:01	6906.2232	-25.506	-11.27	0.671	-0.418	0.817	-11.298
8/15/2004 6:06	6911.2232	-25.506	-11.27	0.671	-0.418	0.817	-11.3
8/15/2004 6:11	6916.2232	-25.503	-11.267	0.671	-0.418	0.817	-11.298
8/15/2004 6:16	6921.2232	-25.506	-11.27	0.669	-0.415	0.817	-11.298
8/15/2004 6:21	6926.2232	-25.497	-11.264	0.671	-0.418	0.817	-11.293
8/15/2004 6:26	6931.2232	-25.5	-11.267	0.669	-0.415	0.817	-11.293
8/15/2004 6:31	6936.2232	-25.495	-11.264	0.669	-0.42	0.817	-11.291
8/15/2004 6:36	6941.2232	-25.495	-11.264	0.664	-0.42	0.814	-11.291
8/15/2004 6:41	6946.2232	-25.492	-11.258	0.662	-0.422	0.814	-11.289
8/15/2004 6:46	6951.2232	-25.486	-11.255	0.664	-0.42	0.817	-11.282
8/15/2004 6:51	6956.2232	-25.477	-11.249	0.664	-0.42	0.817	-11.278
8/15/2004 6:56	6961.2232	-25.475	-11.246	0.662	-0.422	0.814	-11.276
8/15/2004 7:01	6966.2232	-25.469	-11.246	0.662	-0.422	0.817	-11.271
8/15/2004 7:06	6971.2232	-25.466	-11.244	0.66	-0.422	0.814	-11.265
8/15/2004 7:11	6976.2232	-25.466	-11.241	0.658	-0.424	0.814	-11.265
8/15/2004 7:16	6981.2232	-25.463	-11.238	0.658	-0.424	0.814	-11.265
8/15/2004 7:21	6986.2232	-25.46	-11.241	0.658	-0.424	0.814	-11.263
8/15/2004 7:26	6991.2232	-25.46	-11.238	0.655	-0.424	0.814	-11.258
8/15/2004 7:31	6996.2232	-25.46	-11.238	0.658	-0.424	0.814	-11.263
8/15/2004 7:36	7001.2232	-25.455	-11.235	0.658	-0.427	0.814	-11.263
8/15/2004 7:41	7006.2232	-25.46	-11.241	0.651	-0.429	0.814	-11.265
8/15/2004 7:46	7011.2232	-25.46	-11.238	0.651	-0.429	0.814	-11.265
8/15/2004 7:51	7016.2232	-25.46	-11.235	0.648	-0.429	0.811	-11.265
8/15/2004 7:56	7021.2232	-25.455	-11.238	0.651	-0.427	0.811	-11.263
8/15/2004 8:01	7026.2232	-25.466	-11.244	0.644	-0.431	0.808	-11.271
8/15/2004 8:06	7031.2232	-25.457	-11.235	0.648	-0.427	0.811	-11.265
8/15/2004 8:11	7036.2232	-25.457	-11.238	0.651	-0.429	0.814	-11.267
8/15/2004 8:16	7041.2232	-25.455	-11.235	0.651	-0.429	0.811	-11.265
8/15/2004 8:21	7046.2232	-25.443	-11.235	0.646	-0.431	0.814	-11.265
8/15/2004 8:26	7051.2232	-25.457	-11.241	0.644	-0.431	0.811	-11.265
8/15/2004 8:31	7056.2232	-25.46	-11.238	0.642	-0.433	0.811	-11.267
8/15/2004 8:36	7061.2232	-25.443	-11.226	0.653	-0.422	0.814	-11.263
8/15/2004 8:41	7066.2232	-25.46	-11.235	0.642	-0.436	0.811	-11.263
8/15/2004 8:46	7071.2232	-25.452	-11.229	0.644	-0.431	0.811	-11.263
8/15/2004 8:51	7076.2232	-25.466	-11.241	0.635	-0.442	0.808	-11.267
8/15/2004 8:56	7081.2232	-25.472	-11.252	0.621	-0.449	0.802	-11.273
8/15/2004 9:01	7086.2232	-25.449	-11.226	0.646	-0.431	0.808	-11.26
8/15/2004 9:06	7091.2232	-25.46	-11.238	0.635	-0.442	0.805	-11.263
8/15/2004 9:11	7096.2232	-25.452	-11.229	0.639	-0.433	0.808	-11.258
8/15/2004 9:16	7101.2232	-25.452	-11.235	0.635	-0.442	0.808	-11.254
8/15/2004 9:21	7106.2232	-25.446	-11.229	0.637	-0.44	0.808	-11.252
8/15/2004 9:26	7111.2232	-25.435	-11.212	0.651	-0.431	0.814	-11.243
8/15/2004 9:31	7116.2232	-25.443	-11.229	0.644	-0.438	0.808	-11.249
8/15/2004 9:36	7121.2232	-25.443	-11.221	0.646	-0.44	0.811	-11.249
8/15/2004 9:41	7126.2232	-25.446	-11.223	0.646	-0.44	0.808	-11.254
8/15/2004 9:46	7131.2232	-25.426	-11.209	0.664	-0.427	0.811	-11.249
8/15/2004 9:51	7136.2232	-25.432	-11.218	0.653	-0.442	0.805	-11.254
8/15/2004 9:56	7141.2232	-25.417	-11.192	0.673	-0.427	0.814	-11.241
8/15/2004 10:01	7146.2232	-25.437	-11.218	0.66	-0.442	0.808	-11.243
8/15/2004 10:06	7151.2232	-25.435	-11.215	0.662	-0.445	0.808	-11.241

RECOVERY PHASE

Date Time MM/DD/YYYY HH:MM	Elapse Time (minutes)	UFA APT Well XD 1 (feet)	UFA OB Well XD 2 (feet)	ICU MON Well XD 4 (feet)	SAS MON Well XD 5 (feet)	ICU APT Well XD 6 (feet)	UFA OB Well (BU) XD 7 (feet)
8/15/2004 10:11	7156.2232	-25.46	-11.246	0.639	-0.465	0.799	-11.263
8/15/2004 10:16	7161.2232	-25.432	-11.209	0.673	-0.44	0.808	-11.241
8/15/2004 10:21	7166.2232	-25.426	-11.212	0.68	-0.438	0.808	-11.241
8/15/2004 10:26	7171.2232	-25.426	-11.215	0.678	-0.442	0.805	-11.241
8/15/2004 10:31	7176.2232	-25.432	-11.206	0.68	-0.445	0.802	-11.236
8/15/2004 10:36	7181.2232	-25.426	-11.215	0.687	-0.442	0.808	-11.241
8/15/2004 10:41	7186.2232	-25.432	-11.215	0.683	-0.449	0.805	-11.238
8/15/2004 10:46	7191.2232	-25.432	-11.212	0.68	-0.456	0.802	-11.238
8/15/2004 10:51	7196.2232	-25.449	-11.212	0.678	-0.454	0.805	-11.236
8/15/2004 10:56	7201.2232	-25.432	-11.212	0.696	-0.447	0.811	-11.243
8/15/2004 11:01	7206.2232	-25.432	-11.212	0.696	-0.449	0.808	-11.245
8/15/2004 11:06	7211.2232	-25.443	-11.229	0.692	-0.458	0.799	-11.273
8/15/2004 11:11	7216.2232	-25.457	-11.238	0.68	-0.469	0.799	-11.263
8/15/2004 11:16	7221.2232	-25.409	-11.186	0.728	-0.427	0.814	-11.243
8/15/2004 11:21	7226.2232	-25.44	-11.221	0.696	-0.458	0.811	-11.243
8/15/2004 11:26	7231.2232	-25.44	-11.223	0.705	-0.449	0.805	-11.245
8/15/2004 11:31	7236.2232	-25.443	-11.232	0.705	-0.451	0.805	-11.254
8/15/2004 11:36	7241.2232	-25.449	-11.232	0.708	-0.451	0.808	-11.26
8/15/2004 11:41	7246.2232	-25.457	-11.244	0.703	-0.46	0.802	-11.271
8/15/2004 11:46	7251.2232	-25.457	-11.241	0.703	-0.456	0.808	-11.276
8/15/2004 11:51	7256.2232	-25.463	-11.244	0.705	-0.456	0.805	-11.278
8/15/2004 11:56	7261.2232	-25.48	-11.267	0.694	-0.463	0.802	-11.306
8/15/2004 12:01	7266.2232	-25.486	-11.275	0.687	-0.467	0.799	-11.308
8/15/2004 12:06	7271.2232	-25.475	-11.267	0.698	-0.46	0.799	-11.306
8/15/2004 12:11	7276.2232	-25.44	-11.212	0.735	-0.433	0.811	-11.278
8/15/2004 12:16	7281.2232	-25.497	-11.281	0.685	-0.472	0.794	-11.3
8/15/2004 12:21	7286.2232	-25.48	-11.261	0.696	-0.46	0.799	-11.295
8/15/2004 12:26	7291.2232	-25.486	-11.27	0.689	-0.469	0.791	-11.311
8/15/2004 12:31	7296.2232	-25.475	-11.255	0.698	-0.46	0.797	-11.306
8/15/2004 12:36	7301.2232	-25.472	-11.258	0.701	-0.46	0.797	-11.304
8/15/2004 12:41	7306.2232	-25.472	-11.255	0.698	-0.46	0.797	-11.3
8/15/2004 12:46	7311.2232	-25.472	-11.255	0.696	-0.463	0.797	-11.3
8/15/2004 12:51	7316.2232	-25.475	-11.258	0.696	-0.463	0.794	-11.298
8/15/2004 12:56	7321.2232	-25.477	-11.264	0.696	-0.465	0.788	-11.302
8/15/2004 13:01	7326.2232	-25.486	-11.27	0.698	-0.469	0.794	-11.308
8/15/2004 13:06	7331.2232	-25.486	-11.27	0.694	-0.463	0.788	-11.311
8/15/2004 13:11	7336.2232	-25.497	-11.278	0.692	-0.478	0.794	-11.319
8/15/2004 13:16	7341.2232	-25.503	-11.287	0.692	-0.474	0.794	-11.322
8/15/2004 13:21	7346.2232	-25.515	-11.295	0.694	-0.474	0.788	-11.328
8/15/2004 13:26	7351.2232	-25.523	-11.307	0.689	-0.474	0.791	-11.339
8/15/2004 13:31	7356.2232	-25.526	-11.31	0.687	-0.474	0.788	-11.341
8/15/2004 13:36	7361.2232	-25.538	-11.319	0.687	-0.474	0.788	-11.35
8/15/2004 13:41	7366.2232	-25.535	-11.321	0.689	-0.472	0.788	-11.352
8/15/2004 13:46	7371.2232	-25.535	-11.321	0.692	-0.469	0.785	-11.352
8/15/2004 13:51	7376.2232	-25.538	-11.327	0.689	-0.469	0.788	-11.352
8/15/2004 13:56	7381.2232	-25.56	-11.339	0.667	-0.49	0.779	-11.359
8/15/2004 14:01	7386.2232	-25.552	-11.336	0.683	-0.478	0.782	-11.363
8/15/2004 14:06	7391.2232	-25.558	-11.336	0.68	-0.476	0.779	-11.365
8/15/2004 14:11	7396.2232	-25.575	-11.347	0.662	-0.49	0.773	-11.376
8/15/2004 14:16	7401.2232	-25.569	-11.347	0.669	-0.483	0.773	-11.381
8/15/2004 14:21	7406.2232	-25.578	-11.356	0.673	-0.485	0.773	-11.389
8/15/2004 14:26	7411.2232	-25.583	-11.362	0.671	-0.485	0.773	-11.396
8/15/2004 14:31	7416.2232	-25.592	-11.37	0.671	-0.487	0.771	-11.403
8/15/2004 14:36	7421.2232	-25.598	-11.376	0.669	-0.485	0.768	-11.409

RECOVERY PHASE

Date Time MM/DD/YYYY HH:MM	Elapse Time (minutes)	UFA APT Well XD 1 (feet)	UFA OB Well XD 2 (feet)	ICU MON Well XD 4 (feet)	SAS MON Well XD 5 (feet)	ICU APT Well XD 6 (feet)	UFA OB Well (BU) XD 7 (feet)
8/15/2004 14:41	7426.2232	-25.6	-11.379	0.667	-0.485	0.768	-11.411
8/15/2004 14:46	7431.2232	-25.606	-11.382	0.664	-0.485	0.765	-11.418
8/15/2004 14:51	7436.2232	-25.609	-11.385	0.664	-0.487	0.765	-11.418
8/15/2004 14:56	7441.2232	-25.612	-11.388	0.664	-0.487	0.765	-11.422
8/15/2004 15:01	7446.2232	-25.615	-11.393	0.662	-0.49	0.762	-11.427
8/15/2004 15:06	7451.2232	-25.618	-11.393	0.66	-0.487	0.762	-11.427
8/15/2004 15:11	7456.2232	-25.615	-11.393	0.66	-0.483	0.759	-11.427
8/15/2004 15:16	7461.2232	-25.615	-11.391	0.658	-0.485	0.756	-11.424
8/15/2004 15:21	7466.2232	-25.615	-11.391	0.658	-0.487	0.756	-11.422
8/15/2004 15:26	7471.2232	-25.618	-11.393	0.658	-0.492	0.756	-11.429
8/15/2004 15:31	7476.2232	-25.623	-11.399	0.653	-0.49	0.753	-11.435
8/15/2004 15:36	7481.2232	-25.623	-11.402	0.653	-0.492	0.753	-11.435
8/15/2004 15:41	7486.2232	-25.62	-11.399	0.651	-0.487	0.75	-11.433
8/15/2004 15:46	7491.2232	-25.615	-11.396	0.648	-0.492	0.753	-11.429
8/15/2004 15:51	7496.2232	-25.618	-11.396	0.648	-0.492	0.753	-11.431
8/15/2004 15:56	7501.2232	-25.618	-11.399	0.648	-0.497	0.75	-11.435
8/15/2004 16:01	7506.2232	-25.626	-11.405	0.646	-0.499	0.748	-11.442
8/15/2004 16:06	7511.2232	-25.632	-11.411	0.644	-0.501	0.748	-11.446
8/15/2004 16:11	7516.2232	-25.623	-11.414	0.644	-0.497	0.745	-11.444
8/15/2004 16:16	7521.2232	-25.623	-11.414	0.642	-0.499	0.745	-11.444
8/15/2004 16:21	7526.2232	-25.629	-11.414	0.637	-0.499	0.745	-11.448
8/15/2004 16:26	7531.2232	-25.629	-11.419	0.639	-0.501	0.742	-11.448
8/15/2004 16:31	7536.2232	-25.638	-11.425	0.639	-0.503	0.742	-11.455
8/15/2004 16:36	7541.2232	-25.641	-11.431	0.637	-0.501	0.739	-11.464
8/15/2004 16:41	7546.2232	-25.646	-11.434	0.635	-0.501	0.736	-11.466
8/15/2004 16:46	7551.2232	-25.658	-11.442	0.633	-0.503	0.736	-11.47
8/15/2004 16:51	7556.2232	-25.661	-11.448	0.63	-0.506	0.739	-11.479
8/15/2004 16:56	7561.2232	-25.669	-11.454	0.63	-0.506	0.736	-11.486
8/15/2004 17:01	7566.2232	-25.669	-11.454	0.63	-0.503	0.733	-11.486
8/15/2004 17:06	7571.2232	-25.669	-11.457	0.626	-0.506	0.733	-11.488
8/15/2004 17:11	7576.2232	-25.669	-11.457	0.626	-0.503	0.73	-11.488
8/15/2004 17:16	7581.2232	-25.672	-11.46	0.623	-0.506	0.73	-11.488
8/15/2004 17:21	7586.2232	-25.675	-11.46	0.621	-0.508	0.727	-11.494
8/15/2004 17:26	7591.2232	-25.678	-11.46	0.619	-0.506	0.727	-11.494
8/15/2004 17:31	7596.2232	-25.675	-11.46	0.619	-0.503	0.724	-11.492
8/15/2004 17:36	7601.2232	-25.672	-11.457	0.617	-0.503	0.724	-11.492
8/15/2004 17:41	7606.2232	-25.672	-11.457	0.617	-0.506	0.724	-11.492
8/15/2004 17:46	7611.2232	-25.669	-11.46	0.617	-0.506	0.727	-11.494
8/15/2004 17:51	7616.2232	-25.675	-11.463	0.612	-0.508	0.724	-11.497
8/15/2004 17:56	7621.2232	-25.675	-11.463	0.61	-0.51	0.722	-11.497
8/15/2004 18:01	7626.2232	-25.675	-11.465	0.61	-0.512	0.722	-11.499
8/15/2004 18:06	7631.2232	-25.686	-11.474	0.607	-0.515	0.719	-11.507
8/15/2004 18:11	7636.2232	-25.692	-11.477	0.605	-0.515	0.719	-11.512
8/15/2004 18:16	7641.2232	-25.698	-11.486	0.603	-0.517	0.716	-11.518
8/15/2004 18:21	7646.2232	-25.698	-11.489	0.603	-0.515	0.716	-11.521
8/15/2004 18:26	7651.2232	-25.701	-11.489	0.601	-0.515	0.713	-11.523
8/15/2004 18:31	7656.2232	-25.703	-11.491	0.598	-0.517	0.71	-11.525
8/15/2004 18:36	7661.2232	-25.709	-11.494	0.598	-0.519	0.71	-11.529
8/15/2004 18:41	7666.2232	-25.712	-11.5	0.596	-0.519	0.707	-11.534
8/15/2004 18:46	7671.2232	-25.718	-11.503	0.594	-0.519	0.707	-11.538
8/15/2004 18:51	7676.2232	-25.723	-11.509	0.592	-0.521	0.704	-11.542
8/15/2004 18:56	7681.2232	-25.721	-11.506	0.592	-0.519	0.704	-11.54
8/15/2004 19:01	7686.2232	-25.718	-11.506	0.592	-0.517	0.701	-11.538
8/15/2004 19:06	7691.2232	-25.715	-11.506	0.589	-0.517	0.701	-11.538

RECOVERY PHASE

Date Time MM/DD/YYYY HH:MM	Elapse Time (minutes)	UFA APT Well XD 1 (feet)	UFA OB Well XD 2 (feet)	ICU MON Well XD 4 (feet)	SAS MON Well XD 5 (feet)	ICU APT Well XD 6 (feet)	UFA OB Well (BU) XD 7 (feet)
8/15/2004 19:11	7696.2232	-25.715	-11.506	0.587	-0.519	0.701	-11.538
8/15/2004 19:16	7701.2232	-25.715	-11.506	0.585	-0.519	0.698	-11.54
8/15/2004 19:21	7706.2232	-25.715	-11.506	0.585	-0.519	0.698	-11.54
8/15/2004 19:26	7711.2232	-25.715	-11.506	0.582	-0.521	0.696	-11.54
8/15/2004 19:31	7716.2232	-25.715	-11.509	0.58	-0.521	0.696	-11.54
8/15/2004 19:36	7721.2232	-25.718	-11.506	0.58	-0.521	0.696	-11.538
8/15/2004 19:41	7726.2232	-25.715	-11.509	0.58	-0.524	0.693	-11.538
8/15/2004 19:46	7731.2232	-25.715	-11.506	0.578	-0.524	0.693	-11.536
8/15/2004 19:51	7736.2232	-25.718	-11.506	0.578	-0.524	0.693	-11.538
8/15/2004 19:56	7741.2232	-25.718	-11.509	0.576	-0.524	0.69	-11.536
8/15/2004 20:01	7746.2232	-25.715	-11.509	0.576	-0.524	0.69	-11.54
8/15/2004 20:06	7751.2232	-25.715	-11.509	0.573	-0.524	0.69	-11.538
8/15/2004 20:11	7756.2232	-25.715	-11.509	0.571	-0.524	0.687	-11.538
8/15/2004 20:16	7761.2232	-25.715	-11.506	0.571	-0.526	0.687	-11.538
8/15/2004 20:21	7766.2232	-25.715	-11.506	0.571	-0.526	0.687	-11.538
8/15/2004 20:26	7771.2232	-25.715	-11.509	0.569	-0.528	0.684	-11.54
8/15/2004 20:31	7776.2232	-25.718	-11.509	0.569	-0.526	0.684	-11.54
8/15/2004 20:36	7781.2232	-25.715	-11.509	0.569	-0.528	0.684	-11.538
8/15/2004 20:41	7786.2232	-25.718	-11.509	0.569	-0.528	0.684	-11.54
8/15/2004 20:46	7791.2232	-25.721	-11.512	0.567	-0.528	0.681	-11.542
8/15/2004 20:51	7796.2232	-25.721	-11.512	0.567	-0.53	0.681	-11.542
8/15/2004 20:56	7801.2232	-25.721	-11.512	0.564	-0.53	0.681	-11.545
8/15/2004 21:01	7806.2232	-25.718	-11.512	0.564	-0.528	0.678	-11.54
8/15/2004 21:06	7811.2232	-25.721	-11.512	0.564	-0.53	0.678	-11.54
8/15/2004 21:11	7816.2232	-25.721	-11.512	0.564	-0.533	0.681	-11.545
8/15/2004 21:16	7821.2232	-25.721	-11.512	0.562	-0.533	0.678	-11.542
8/15/2004 21:21	7826.2232	-25.721	-11.514	0.564	-0.533	0.678	-11.542
8/15/2004 21:26	7831.2232	-25.721	-11.514	0.562	-0.535	0.678	-11.547
8/15/2004 21:31	7836.2232	-25.721	-11.514	0.56	-0.535	0.678	-11.547
8/15/2004 21:36	7841.2232	-25.721	-11.514	0.56	-0.535	0.675	-11.545
8/15/2004 21:41	7846.2232	-25.718	-11.512	0.557	-0.533	0.675	-11.542
8/15/2004 21:46	7851.2232	-25.715	-11.509	0.557	-0.535	0.675	-11.542
8/15/2004 21:51	7856.2232	-25.715	-11.512	0.557	-0.535	0.675	-11.542
8/15/2004 21:56	7861.2232	-25.715	-11.512	0.555	-0.537	0.675	-11.545
8/15/2004 22:01	7866.2232	-25.715	-11.512	0.555	-0.537	0.672	-11.542
8/15/2004 22:06	7871.2232	-25.715	-11.512	0.555	-0.537	0.675	-11.545
8/15/2004 22:11	7876.2232	-25.715	-11.512	0.555	-0.539	0.672	-11.542
8/15/2004 22:16	7881.2232	-25.715	-11.512	0.555	-0.539	0.672	-11.545
8/15/2004 22:21	7886.2232	-25.712	-11.512	0.553	-0.539	0.672	-11.542
8/15/2004 22:26	7891.2232	-25.715	-11.514	0.553	-0.542	0.672	-11.545
8/15/2004 22:31	7896.2232	-25.715	-11.512	0.553	-0.539	0.672	-11.542
8/15/2004 22:36	7901.2232	-25.712	-11.512	0.553	-0.542	0.67	-11.542
8/15/2004 22:41	7906.2232	-25.712	-11.512	0.551	-0.542	0.67	-11.545
8/15/2004 22:46	7911.2232	-25.712	-11.514	0.553	-0.544	0.67	-11.545
8/15/2004 22:51	7916.2232	-25.715	-11.514	0.551	-0.544	0.67	-11.549
8/15/2004 22:56	7921.2232	-25.715	-11.514	0.551	-0.544	0.667	-11.547
8/15/2004 23:01	7926.2232	-25.715	-11.514	0.548	-0.544	0.667	-11.549
8/15/2004 23:06	7931.2232	-25.718	-11.517	0.548	-0.544	0.67	-11.549
8/15/2004 23:11	7936.2232	-25.723	-11.523	0.548	-0.546	0.667	-11.553
8/15/2004 23:16	7941.2232	-25.723	-11.523	0.548	-0.544	0.667	-11.553
8/15/2004 23:21	7946.2232	-25.729	-11.529	0.546	-0.546	0.667	-11.558
8/15/2004 23:26	7951.2232	-25.732	-11.532	0.546	-0.548	0.667	-11.562
8/15/2004 23:31	7956.2232	-25.738	-11.535	0.546	-0.548	0.664	-11.569
8/15/2004 23:36	7961.2232	-25.741	-11.54	0.544	-0.548	0.664	-11.573

RECOVERY PHASE

Date Time MM/DD/YYYY HH:MM	Elapse Time (minutes)	UFA APT Well XD 1 (feet)	UFA OB Well XD 2 (feet)	ICU MON Well XD 4 (feet)	SAS MON Well XD 5 (feet)	ICU APT Well XD 6 (feet)	UFA OB Well (BU) XD 7 (feet)
8/15/2004 23:41	7966.2232	-25.746	-11.543	0.544	-0.548	0.664	-11.577
8/15/2004 23:46	7971.2232	-25.749	-11.546	0.544	-0.551	0.664	-11.58
8/15/2004 23:51	7976.2232	-25.752	-11.552	0.544	-0.553	0.661	-11.584
8/15/2004 23:56	7981.2232	-25.758	-11.552	0.541	-0.553	0.661	-11.591
8/16/2004 0:01	7986.2232	-25.758	-11.555	0.541	-0.551	0.658	-11.591
8/16/2004 0:06	7991.2232	-25.758	-11.558	0.539	-0.553	0.658	-11.591
8/16/2004 0:11	7996.2232	-25.758	-11.558	0.539	-0.553	0.658	-11.593
8/16/2004 0:16	8001.2232	-25.766	-11.561	0.539	-0.553	0.658	-11.595
8/16/2004 0:21	8006.2232	-25.766	-11.563	0.539	-0.555	0.658	-11.595
8/16/2004 0:26	8011.2232	-25.772	-11.563	0.539	-0.553	0.655	-11.604
8/16/2004 0:31	8016.2232	-25.775	-11.569	0.539	-0.555	0.655	-11.602
8/16/2004 0:36	8021.2232	-25.781	-11.575	0.535	-0.555	0.655	-11.61
8/16/2004 0:41	8026.2232	-25.786	-11.578	0.537	-0.555	0.655	-11.61
8/16/2004 0:46	8031.2232	-25.792	-11.584	0.535	-0.557	0.652	-11.615
8/16/2004 0:51	8036.2232	-25.792	-11.586	0.532	-0.555	0.652	-11.617
8/16/2004 0:56	8041.2232	-25.792	-11.586	0.532	-0.557	0.652	-11.617
8/16/2004 1:01	8046.2232	-25.798	-11.589	0.532	-0.557	0.652	-11.621
8/16/2004 1:06	8051.2232	-25.798	-11.592	0.53	-0.56	0.652	-11.626
8/16/2004 1:11	8056.2232	-25.801	-11.601	0.53	-0.56	0.652	-11.63
8/16/2004 1:16	8061.2232	-25.806	-11.604	0.53	-0.56	0.649	-11.632
8/16/2004 1:21	8066.2232	-25.809	-11.607	0.528	-0.56	0.649	-11.637
8/16/2004 1:26	8071.2232	-25.815	-11.61	0.53	-0.56	0.646	-11.641
8/16/2004 1:31	8076.2232	-25.812	-11.61	0.528	-0.56	0.646	-11.641
8/16/2004 1:36	8081.2232	-25.815	-11.61	0.528	-0.56	0.646	-11.641
8/16/2004 1:41	8086.2232	-25.815	-11.612	0.526	-0.562	0.644	-11.647
8/16/2004 1:46	8091.2232	-25.821	-11.618	0.523	-0.562	0.644	-11.652
8/16/2004 1:51	8096.2232	-25.826	-11.621	0.523	-0.564	0.644	-11.656
8/16/2004 1:56	8101.2232	-25.829	-11.627	0.523	-0.564	0.644	-11.658
8/16/2004 2:01	8106.2232	-25.838	-11.63	0.521	-0.564	0.644	-11.663
8/16/2004 2:06	8111.2232	-25.844	-11.635	0.521	-0.566	0.641	-11.669
8/16/2004 2:11	8116.2232	-25.844	-11.638	0.521	-0.564	0.641	-11.674
8/16/2004 2:16	8121.2232	-25.849	-11.641	0.521	-0.566	0.638	-11.676
8/16/2004 2:21	8126.2232	-25.855	-11.647	0.519	-0.569	0.638	-11.68
8/16/2004 2:26	8131.2232	-25.858	-11.653	0.519	-0.566	0.638	-11.685
8/16/2004 2:31	8136.2232	-25.861	-11.656	0.516	-0.566	0.635	-11.687
8/16/2004 2:36	8141.2232	-25.861	-11.656	0.516	-0.566	0.635	-11.691
8/16/2004 2:41	8146.2232	-25.869	-11.659	0.514	-0.569	0.635	-11.696
8/16/2004 2:46	8151.2232	-25.872	-11.664	0.512	-0.569	0.632	-11.696
8/16/2004 2:51	8156.2232	-25.875	-11.661	0.514	-0.569	0.632	-11.7
8/16/2004 2:56	8161.2232	-25.878	-11.667	0.51	-0.571	0.635	-11.7
8/16/2004 3:01	8166.2232	-25.884	-11.673	0.51	-0.571	0.632	-11.704
8/16/2004 3:06	8171.2232	-25.887	-11.679	0.507	-0.571	0.629	-11.715
8/16/2004 3:11	8176.2232	-25.889	-11.682	0.507	-0.571	0.629	-11.72
8/16/2004 3:16	8181.2232	-25.895	-11.684	0.507	-0.571	0.629	-11.72
8/16/2004 3:21	8186.2232	-25.895	-11.687	0.505	-0.571	0.626	-11.722
8/16/2004 3:26	8191.2232	-25.898	-11.69	0.505	-0.571	0.626	-11.724
8/16/2004 3:31	8196.2232	-25.901	-11.693	0.503	-0.573	0.626	-11.726
8/16/2004 3:36	8201.2232	-25.904	-11.693	0.503	-0.573	0.623	-11.728
8/16/2004 3:41	8206.2232	-25.904	-11.693	0.501	-0.573	0.623	-11.731
8/16/2004 3:46	8211.2232	-25.907	-11.699	0.501	-0.573	0.623	-11.733
8/16/2004 3:51	8216.2232	-25.907	-11.702	0.498	-0.573	0.621	-11.735
8/16/2004 3:56	8221.2232	-25.909	-11.705	0.496	-0.576	0.621	-11.737
8/16/2004 4:01	8226.2232	-25.909	-11.705	0.496	-0.576	0.618	-11.737
8/16/2004 4:06	8231.2232	-25.912	-11.708	0.496	-0.576	0.618	-11.742

RECOVERY PHASE

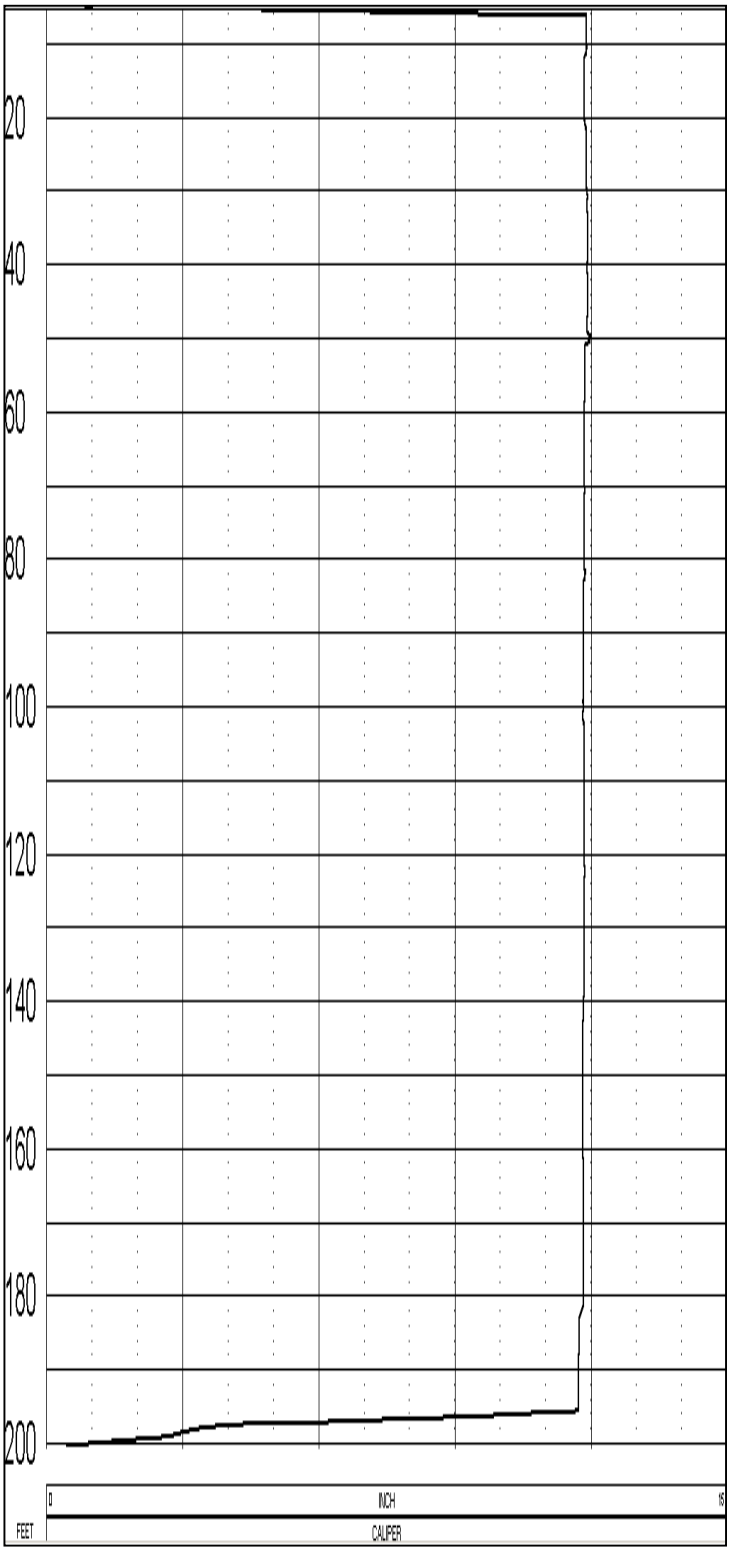
Date Time MM/DD/YYYY HH:MM	Elapse Time (minutes)	UFA APT Well XD 1 (feet)	UFA OB Well XD 2 (feet)	ICU MON Well XD 4 (feet)	SAS MON Well XD 5 (feet)	ICU APT Well XD 6 (feet)	UFA OB Well (BU) XD 7 (feet)
8/16/2004 4:11	8236.2232	-25.915	-11.71	0.494	-0.578	0.618	-11.742
8/16/2004 4:16	8241.2232	-25.918	-11.71	0.494	-0.578	0.615	-11.746
8/16/2004 4:21	8246.2232	-25.921	-11.713	0.494	-0.58	0.615	-11.748
8/16/2004 4:26	8251.2232	-25.924	-11.716	0.491	-0.58	0.615	-11.75
8/16/2004 4:31	8256.2232	-25.927	-11.719	0.491	-0.578	0.615	-11.755
8/16/2004 4:36	8261.2232	-25.929	-11.719	0.489	-0.58	0.612	-11.755
8/16/2004 4:41	8266.2232	-25.929	-11.719	0.489	-0.576	0.612	-11.757
8/16/2004 4:46	8271.2232	-25.929	-11.722	0.489	-0.578	0.609	-11.757
8/16/2004 4:51	8276.2232	-25.932	-11.725	0.485	-0.58	0.612	-11.759
8/16/2004 4:56	8281.2232	-25.932	-11.725	0.487	-0.58	0.609	-11.759
8/16/2004 5:01	8286.2232	-25.932	-11.722	0.487	-0.58	0.606	-11.759
8/16/2004 5:06	8291.2232	-25.929	-11.725	0.485	-0.58	0.606	-11.761
8/16/2004 5:11	8296.2232	-25.929	-11.725	0.485	-0.582	0.606	-11.761
8/16/2004 5:16	8301.2232	-25.932	-11.725	0.485	-0.582	0.606	-11.761
8/16/2004 5:21	8306.2232	-25.932	-11.725	0.482	-0.582	0.606	-11.761
8/16/2004 5:26	8311.2232	-25.932	-11.725	0.478	-0.582	0.603	-11.761
8/16/2004 5:31	8316.2232	-25.929	-11.725	0.478	-0.58	0.603	-11.761
8/16/2004 5:36	8321.2232	-25.927	-11.725	0.478	-0.582	0.6	-11.761
8/16/2004 5:41	8326.2232	-25.924	-11.722	0.478	-0.582	0.6	-11.757
8/16/2004 5:46	8331.2232	-25.921	-11.719	0.476	-0.585	0.6	-11.755
8/16/2004 5:51	8336.2232	-25.915	-11.719	0.476	-0.585	0.6	-11.752
8/16/2004 5:56	8341.2232	-25.915	-11.716	0.473	-0.585	0.597	-11.752
8/16/2004 6:01	8346.2232	-25.912	-11.713	0.473	-0.585	0.597	-11.748
8/16/2004 6:06	8351.2232	-25.909	-11.713	0.471	-0.585	0.597	-11.746
8/16/2004 6:11	8356.2232	-25.901	-11.708	0.471	-0.585	0.597	-11.742
8/16/2004 6:16	8361.2232	-25.898	-11.699	0.471	-0.585	0.597	-11.737
8/16/2004 6:21	8366.2232	-25.895	-11.696	0.471	-0.585	0.597	-11.735
8/16/2004 6:26	8371.2232	-25.892	-11.699	0.466	-0.585	0.595	-11.731
8/16/2004 6:31	8376.2232	-25.889	-11.693	0.466	-0.585	0.595	-11.728
8/16/2004 6:36	8381.2232	-25.881	-11.69	0.466	-0.585	0.595	-11.722
8/16/2004 6:41	8386.2232	-25.875	-11.684	0.464	-0.589	0.595	-11.72
8/16/2004 6:46	8391.2232	-25.875	-11.682	0.466	-0.587	0.595	-11.717
8/16/2004 6:51	8396.2232	-25.875	-11.687	0.462	-0.589	0.592	-11.717
8/16/2004 6:56	8401.2232	-25.875	-11.682	0.462	-0.589	0.595	-11.715
8/16/2004 7:01	8406.2232	-25.872	-11.682	0.462	-0.589	0.589	-11.713
8/16/2004 7:06	8411.2232	-25.872	-11.682	0.462	-0.589	0.592	-11.713
8/16/2004 7:11	8416.2232	-25.872	-11.682	0.457	-0.589	0.589	-11.713
8/16/2004 7:16	8421.2232	-25.875	-11.682	0.457	-0.589	0.589	-11.713
8/16/2004 7:21	8426.2232	-25.872	-11.682	0.457	-0.589	0.589	-11.713
8/16/2004 7:26	8431.2232	-25.872	-11.682	0.453	-0.589	0.589	-11.715
8/16/2004 7:31	8436.2232	-25.875	-11.682	0.453	-0.589	0.589	-11.715
8/16/2004 7:36	8441.2232	-25.875	-11.684	0.45	-0.589	0.589	-11.72
8/16/2004 7:41	8446.2232	-25.872	-11.682	0.45	-0.594	0.589	-11.717
8/16/2004 7:46	8451.2232	-25.872	-11.679	0.448	-0.591	0.589	-11.715
8/16/2004 7:51	8456.2232	-25.875	-11.679	0.446	-0.591	0.586	-11.717
8/16/2004 7:56	8461.2232	-25.872	-11.682	0.444	-0.591	0.586	-11.715
8/16/2004 8:01	8466.2232	-25.869	-11.684	0.444	-0.591	0.586	-11.715
8/16/2004 8:06	8471.2232	-25.861	-11.676	0.446	-0.587	0.589	-11.709
8/16/2004 8:11	8476.2232	-25.864	-11.676	0.439	-0.591	0.589	-11.709
8/16/2004 8:16	8481.2232	-25.855	-11.673	0.439	-0.591	0.586	-11.707
8/16/2004 8:21	8486.2232	-25.855	-11.676	0.435	-0.594	0.583	-11.707
8/16/2004 8:26	8491.2232	-25.844	-11.659	0.439	-0.589	0.586	-11.698
8/16/2004 8:31	8496.2232	-25.847	-11.661	0.435	-0.594	0.583	-11.696
8/16/2004 8:36	8501.2232	-25.841	-11.653	0.432	-0.594	0.586	-11.691

RECOVERY PHASE

Date Time MM/DD/YYYY HH:MM	Elapse Time (minutes)	UFA APT Well XD 1 (feet)	UFA OB Well XD 2 (feet)	ICU MON Well XD 4 (feet)	SAS MON Well XD 5 (feet)	ICU APT Well XD 6 (feet)	UFA OB Well (BU) XD 7 (feet)
8/16/2004 8:41	8506.2232	-25.832	-11.65	0.435	-0.591	0.586	-11.685
8/16/2004 8:46	8511.2232	-25.826	-11.647	0.43	-0.591	0.583	-11.678
8/16/2004 8:51	8516.2232	-25.821	-11.647	0.43	-0.594	0.583	-11.674
8/16/2004 8:56	8521.2232	-25.818	-11.641	0.43	-0.596	0.583	-11.672
8/16/2004 9:01	8526.2232	-25.815	-11.635	0.425	-0.598	0.58	-11.667
8/16/2004 9:06	8531.2232	-25.809	-11.624	0.43	-0.596	0.583	-11.661
8/16/2004 9:11	8536.2232	-25.792	-11.621	0.437	-0.587	0.583	-11.658
8/16/2004 9:16	8541.2232	-25.812	-11.633	0.423	-0.605	0.577	-11.658
8/16/2004 9:21	8546.2232	-25.804	-11.627	0.435	-0.598	0.583	-11.656
8/16/2004 9:26	8551.2232	-25.798	-11.612	0.439	-0.594	0.583	-11.65
8/16/2004 9:31	8556.2232	-25.806	-11.621	0.428	-0.6	0.577	-11.652
8/16/2004 9:36	8561.2232	-25.798	-11.612	0.437	-0.598	0.58	-11.65
8/16/2004 9:41	8566.2232	-25.804	-11.633	0.437	-0.598	0.577	-11.654
8/16/2004 9:46	8571.2232	-25.798	-11.618	0.441	-0.596	0.583	-11.65
8/16/2004 9:51	8576.2232	-25.801	-11.624	0.444	-0.603	0.58	-11.656
8/16/2004 9:56	8581.2232	-25.804	-11.618	0.446	-0.605	0.577	-11.652
8/16/2004 10:01	8586.2232	-25.792	-11.607	0.457	-0.598	0.583	-11.647
8/16/2004 10:06	8591.2232	-25.806	-11.621	0.453	-0.605	0.58	-11.656
8/16/2004 10:11	8596.2232	-25.806	-11.621	0.457	-0.6	0.574	-11.656
8/16/2004 10:16	8601.2232	-25.804	-11.624	0.464	-0.603	0.574	-11.656
8/16/2004 10:21	8606.2232	-25.795	-11.61	0.478	-0.596	0.58	-11.65

Must add 2 hrs to the time for EST.

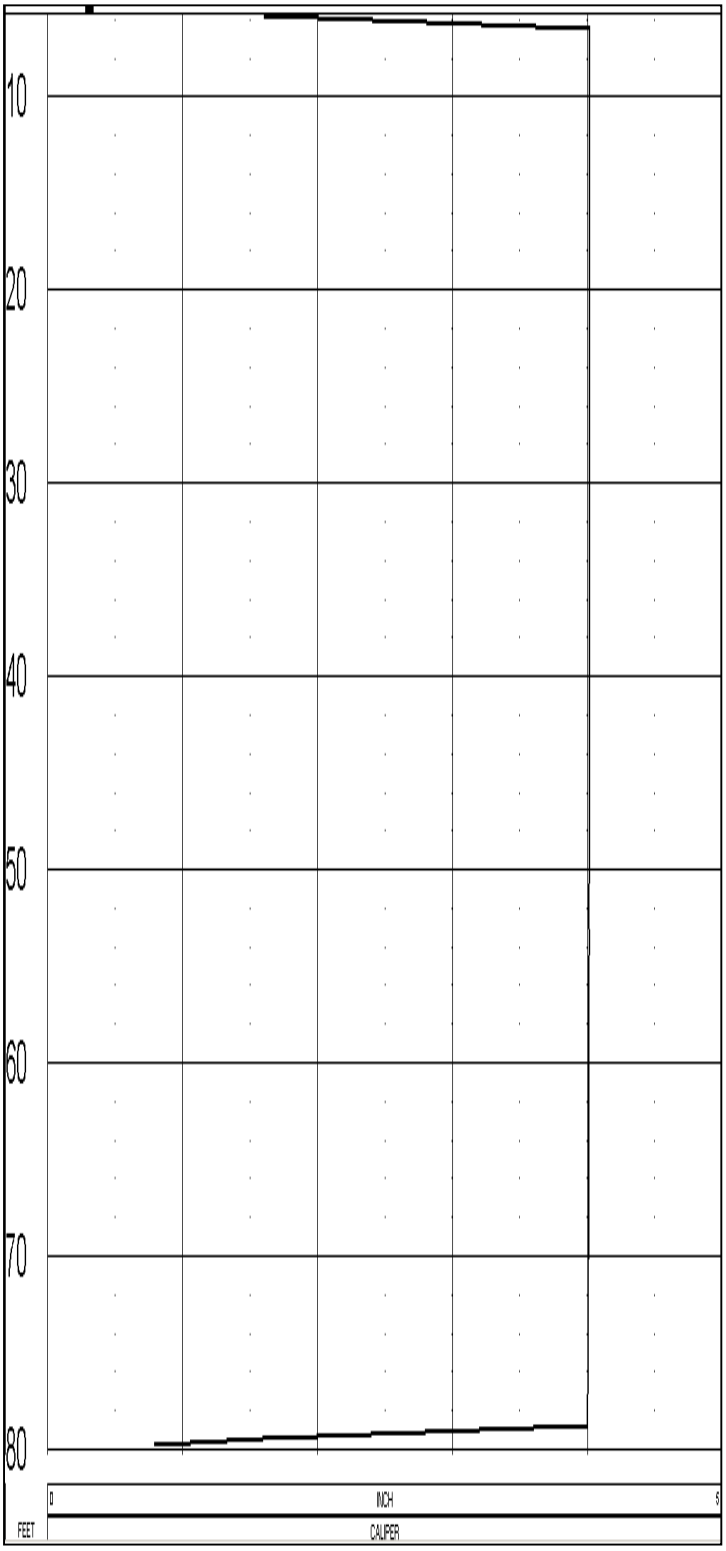
APPENDIX F.
Caliper Logs for Final Wells



SURFICIAL AQUIFER SYSTEM APT WELL

WCP: 651742.01
658420.01
STR: 21/34/29
LAT: 27 30 09.4
LONG: 81 25 10.6
START: 8/27/2001
END: 9/4/2001
LOG: 11/27/2001

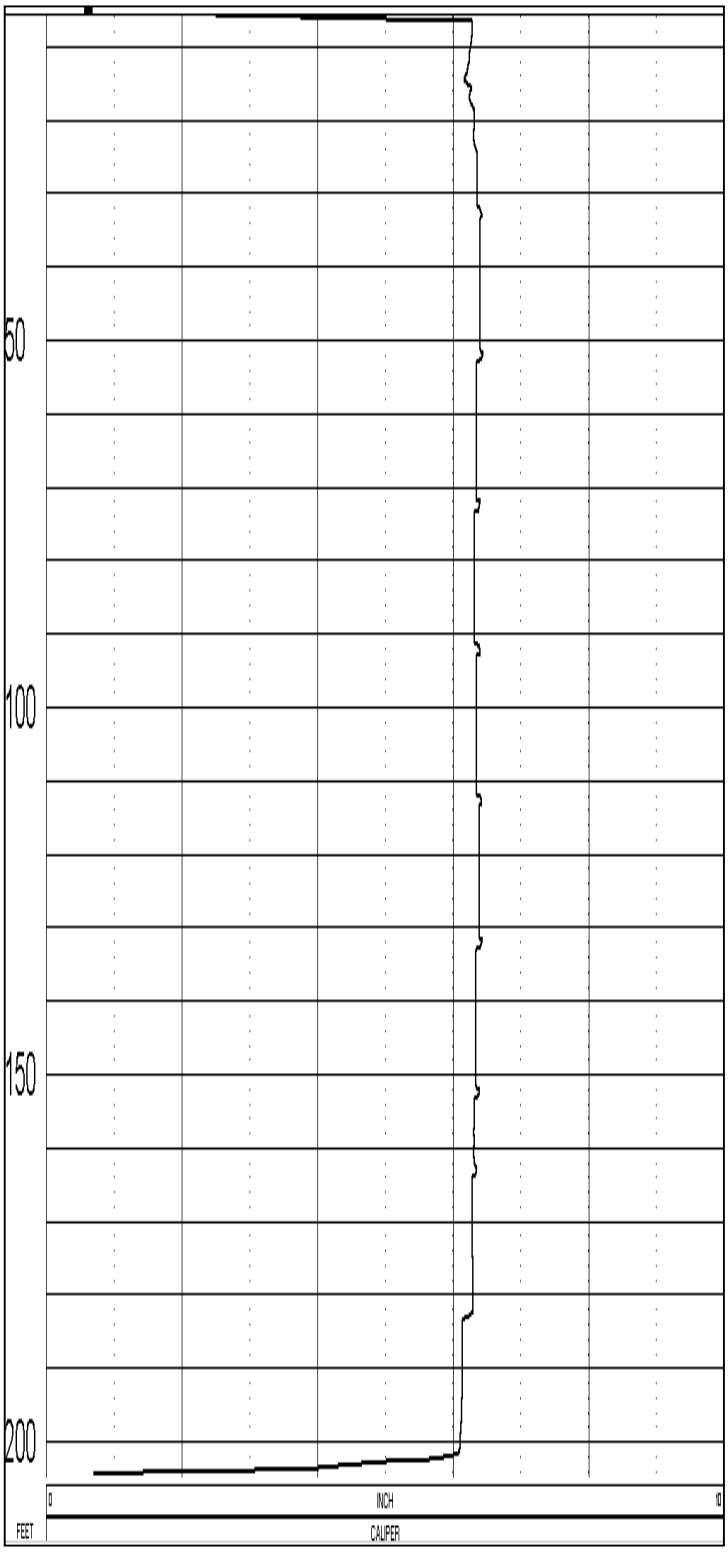
Comments: The final disposition of this well is abandonment.



SURFICIAL AQUIFER SYSTEM WATER SUPPLY/OB WELL

WCP: 644380.01
STR: 21/34/29
LAT: 27 30 09.9
LONG: 81 25 11.4
START: 11/8/2000
END: 11/20/2000
LOG: 11/27/2001

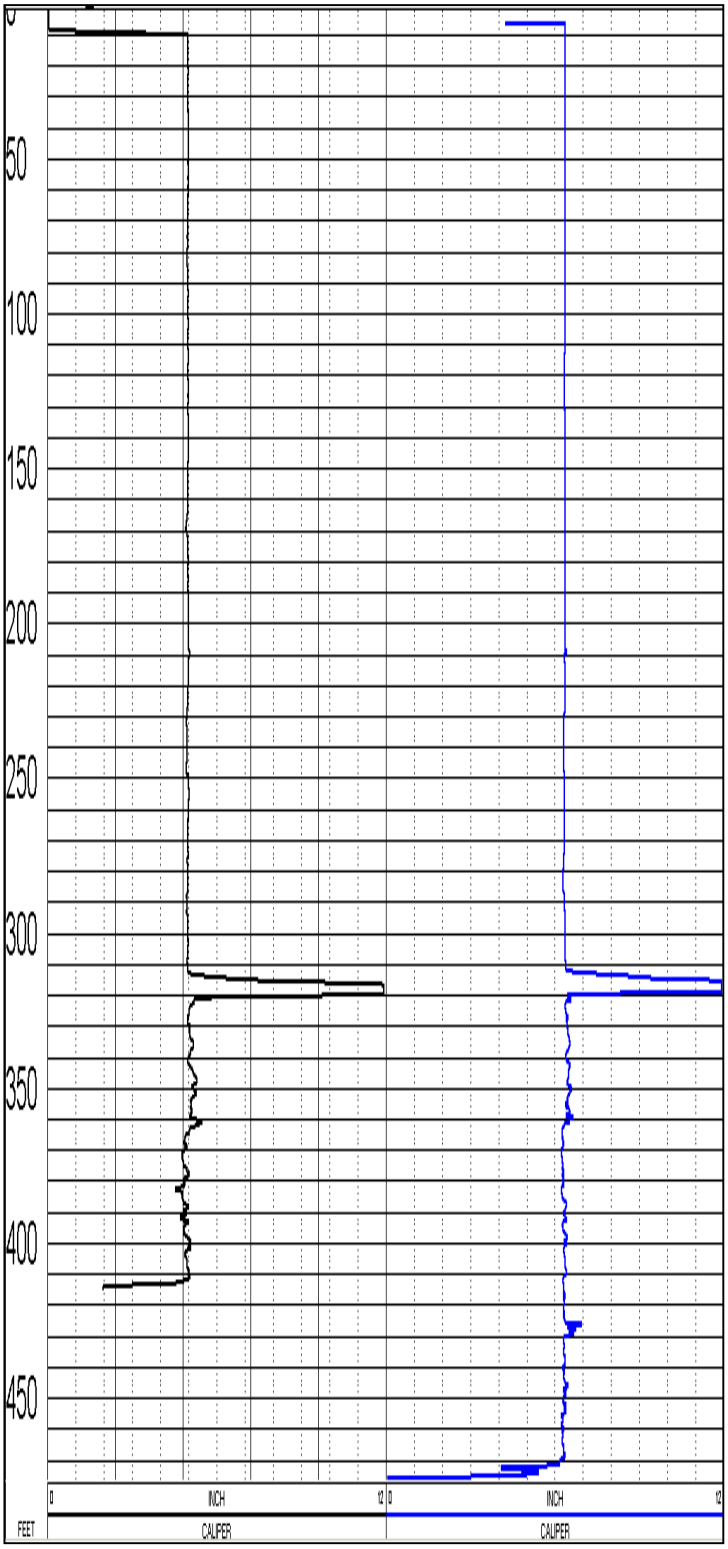
Comments: The final disposition of this well is abandonment.



SURFICIAL AQUIFER SYSTEM MONITOR

WCP: 651739.01
STR: 21/34/29
LAT: 27 30 09.8
LONG: 81 25 10.5
START: 5/3/2001
END: 5/9/2001
LOG: 11/27/2001

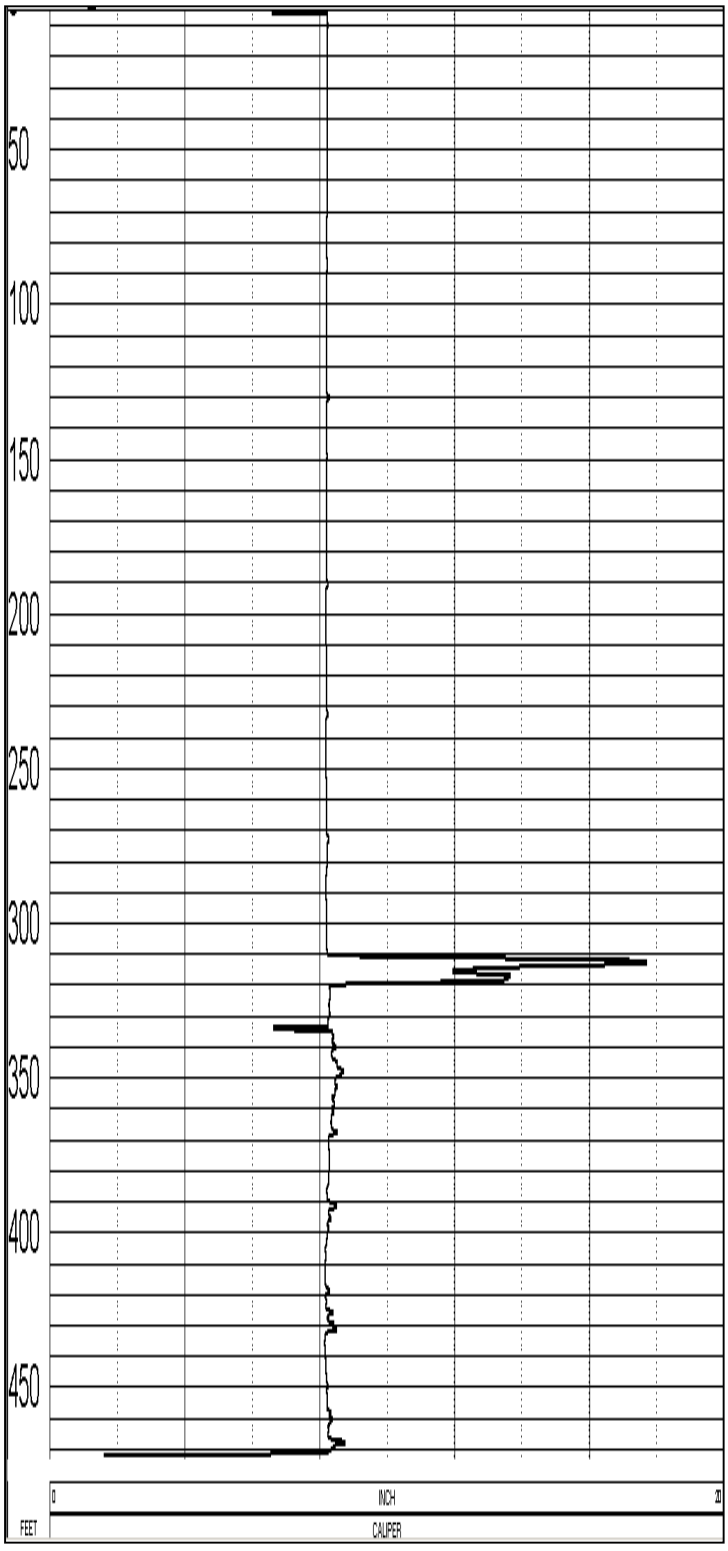
Comments: The final disposition of this well is to be a permanent monitoring well.



INTERMEDIATE CONFINING UNIT MONITOR WELL

WCP:	651747.01
	664137.01 (BP)
STR:	21/34/29
LAT:	27 30 09.8
LONG:	81 25 10.3
START:	4/25/2001
END:	5/3/2001
LOG:	11/27/2001 (L track)
	3/19/2004 (R track)

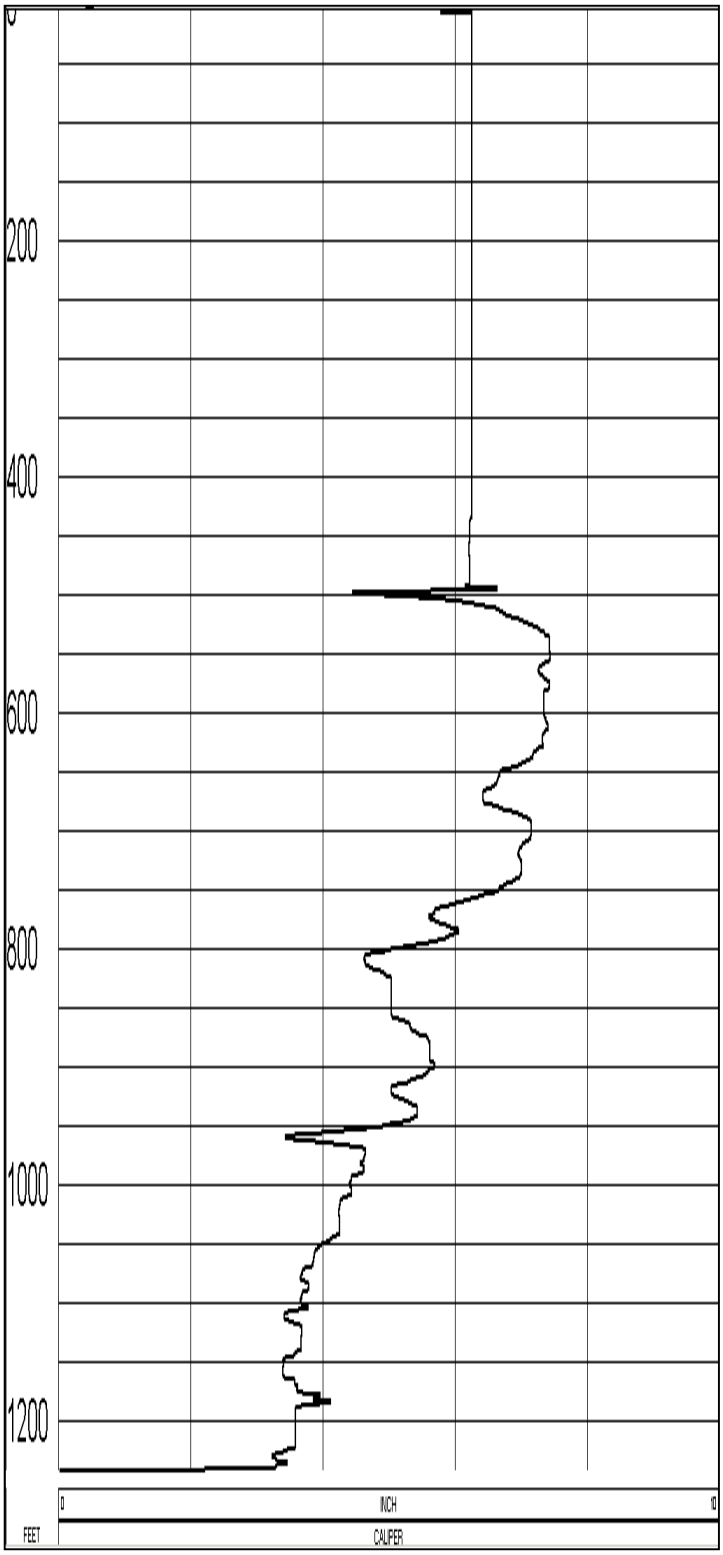
Comments: The final disposition of this well is to be a permanent monitoring well. The right (R) track is prior to backplugging.



INTERMEDIATE CONFINING UNIT MONITOR WELL

WCP: 651746.01
658419.01
664138.01 (BP)
STR: 21/34/29
LAT: 27 30 09.7
LONG: 81 25 11.4
START: 9/5/2001
END: 9/25/2001
LOG: 11/27/2001 (L track)

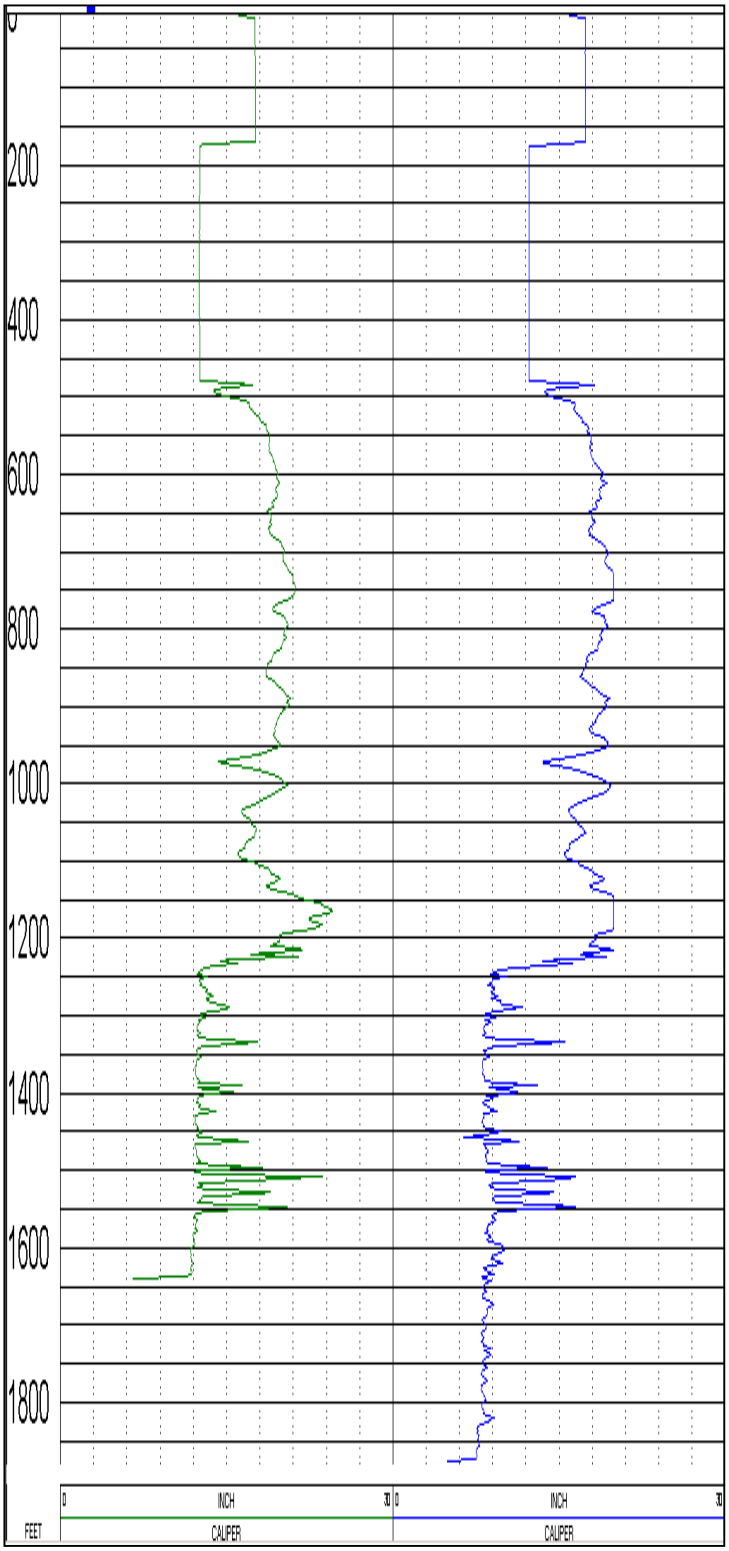
Comments: The final disposition of this well is to be abandoned. This log was conducted prior to the well being backplugged to a total depth of 378 feet BLS.



UPPER FLORIDAN AQUIFER COREHOLE / OB WELL

WCP: 644379.01
648993.01
STR: 21/34/29
LAT: 27 30 10.2
LONG: 81 25 12.6
START: 11/7/2000
END: 4/26/2000
LOG: 3192004

Comments: The final disposition of this well is is to be abandoned.



UPPER FLORIDAN
AQUIFER SYSTEM
MONITOR WELL

WCP: 651745.01
STR: 21/34/29
LAT: 27 30 09.8
LONG: 81 25 10.5
START: 5/15/2001
END: 8/24/2001
LOG: 8/10/2001 (R track)
3192004 (L track

Comments: The final disposition of this well is be a permanent monitor well. The right (R) track is prior to backplugging and reaming of the lower portion of the hole. The left (L) track is after the backplugging and reaming.

APPENDIX G.
Coring Field Data

ROMP 29A CORESITE DATA

DATE	STARTING DEPTH FT BLS	% RECOV	4" DEPTH	WS - WL FT BLS	WL - CH FT BS	TEMP	COND	COMMENTS
11/15/2000				25.36				WS-1: 27 30 09.810 81 25 11.454 L/L
11/16/2000				25.6				
11/27/2000	0			25.57				10' BAG SAMPLES 10" PVC GROUTED TO 250'
								CH-1: 27 30 10.134 81 25 12.642 L/L
11/28/2000	256			25.59				
11/29/2000	256			25.64				
11/30/2000	248			25.65	24.2			Cemented 12" PVC to 250
12/4/2000	250			25.6				
12/5/2000	248			25.74	26.77	20.4	323	WQ IS FROM THE "TUB" W/ THE DRILLING WATER
	259	0	256					1ST RUN FROM 256'-259'
	264	60	256			20.4	353	
	269	40	256			22.4	338	
	274	0	256			22.6	330	BAG SAMPLE
	279	0	256			23.4	331	BAG SAMPLE
	284	0	256			23.5	360	BAG SAMPLE
12/6/2000	285		264	25.74				
	292		294					BAG SAMPLE
	299	98	294			19.3	333	
	304	86	294					
	309	92	294					
	314	100	294					
	319	86	294					
	324	90	294					
	329	84	294					
	334	58	294					
	339	100	294			25.3	340	
	344	90	294					
	349	100	294			25.4	340	
	354	78	294					
	359	80	294					
12/7/2000	359		294	25.7	28.1			
	364	92	294					
	369	100	294			23.3	331	
	374	56	294			23	356	
	379	100	294			23.3	350	
	384	98	294			24.6	344	
	389	80	294			24.5	348	
	394	52	294			24.5	350	
12/11/2000	394		294	25.81	28.15	**27**	**201**	LAB SAMPLE at 394
	399	94	294					
	404	92	294					
	409	99	294			26	346	
	414	100	294			25	347	
12/12/2000	414		294	25.89	42.13			
	419	55	294			22.6	460	
	424	90	294			23	357	
	429	100	294			24	434	
	434	100	294			25	355	
	439	100	294			25.2	350	
	444	90	294			25.7	350	
	449	51	294			26	375	
	454	50	294			25.9	361	
	459	60	294			27.5	296	
	464	51	294			27.2	363	
	469	69	294			27.2	367	
	474	25	294			27.4	357	
	479	84	294			27.2	355	
	484	44	294			27.1	350	SLUG TEST: 294'-484'
12/13/2000	484		294	25.8	41.04			SLUG TEST: 294'-484'
12/14/2000	484		294	25.89	40.72			LOGS RUN: LS-484' HW SET @294'
12/19/2000	484		294	25.96	39.5			PACKER: 366'-484'
12/20/2000	484		294	26.02	40.55			PACKER: 402',461, & 281' - 484'
1/2/2001	484		294	26.04	41.42			RAIN: 1.08" LOGS RUN: 250'-484'
	489	60	294					
	494	70	294			19.6	356	
1/3/2001	494		294	26.17	58.6 (pt)	22	194	PACKER: 484'-494' LAB SAMPLE
1/17/2001	494		294	26.4				LOGS RUN: 250'-494' HW SET @494'
1/31/2001	494		494	26.6	55.2			
	499	50	494			24.5	328	
	504	56	496			26.1	315	
	509	82	496			26.3	328	
	514	90	496			26.3	340	
2/1/2001	514		496	26.6	55.6	23.3	340	

ROMP 29A CORESITE DATA

DATE	STARTING DEPTH FT BLS	% RECOV	4" DEPTH	WS - WL FT BLS	WL - CH FT BS	TEMP	COND	COMMENTS
	519	100	496			23.3	340	
	524	80	496			23.8	328	
	529	90	496			244	345	
	534	70	496			25	344	
	539	80	496			25.3	328	
2/5/2001	539		496	26.65	55.5	21.6	333	
	544	90	496			20.6	319	
	549	92	496			20.7	312	
	554	60	496			21.6	307	
	559	70	496			22.4	307	
	564	60	496			23.1	298	
	569	72	496			23.7	298	
	574	84	496			24	296	
	579	36	496			23.9	323	
2/6/2001	579		496	26.7	55.35			
2/7/2001	579		496	26.72	55.5	**24.9**	**272**	PACKER: 554'-579' LAB SAMPLE
2/8/2001	579		496	26.8	55.6			
	584	60	496			19.3	262	
	589	46	496			19.8	317	
	594	72	496			20.8	328	
	599	42	496			22.1	336	
	604	96	496			23	351	
	609	60	496			23.7	349	
	614	94	496			24.2	335	
	619	68	496			24.8	345	
2/12/2001	619		496	26.75	55.64			
	624	12	496					
	629	94	496					
	634	100	496					
	639	100	496					
	644	100	496			26.7	322	
	649	98	496			26.7	322	
	654	100	496			26.4	318	
	659	90	496			26.4	312	
	664	17	496			26.4	323	
	669	0	496			26.4	346	BAG SAMPLE
	674		496			26.1	325	
	679		496			25.7	353	
2/13/2001	679		496	26.85	55.6	**25.6**	**197**	PACKER: 654'-679' LAB SAMPLE
2/14/2001	679		496	26.86	56.25			
	684	80	496			23.4	237	
	689	68	496			23.5	305	
	694	88	496			23.6	315	
	699	78	496			23.9	325	
	704	86	496			24.9	338	
	709	88	496			25.3	324	
	714	64	496			25.4	357	
	719	74	496			25.7	351	
2/15/2001	719		496	26.86	56.02			
	724	94	496			23.2	317	
	729	76	496			23.5	323	
	734	62	496			23.7	324	
	739	28	496			24.1	329	
	744	66	496			24.2	359	
	749	64	496			24.6	342	
	754	74	496			25	355	
	759	70	496			25.7	365	
	764	68	496			25.9	369	
2/19/2001	764		496	26.89	56.4			
	769	36	496					
	774	82	496					
	779	54	496					
2/20/2001	779		496	26.93	55.9			
	784	74	496			25.1	285	Out of pip during flush (lowest reading)
	789	84	496			25	284	Out of pip during flush (lowest reading)
	794	44	496					
2/21/2001	794		496	26.95	56.38	**25.6**	**279**	PACKER: 769'-794'
2/27/2001	794		496	27.15	59.12			
	799	67	496			29	204	
	804	96	496			29.2	239	
	809	96	496			28.9	301	
	814	50	496			27.4	316	Specific Capacity ~ 0.37 gmp/ft dd
2/28/2001	814		496	27.18	59.53			
	819	62	496			24.7	298	

ROMP 29A CORESITE DATA

DATE	STARTING DEPTH FT BLS	% RECOV	4" DEPTH	WS - WL FT BLS	WL - CH FT BS	TEMP	COND	COMMENTS
	824	100	496			24.4	259	
	829	62	496			25	325	
	834	100	496			25.5	351	
	839	44	496			29.7	332	
	844	47	496			28.6	292	
	849	82	496			28.6	264	
	854	54	496			28.1	336	
3/1/2001	854		496	28.13	60.29			
3/5/2001	854		496	27.23	57.63			RAIN: .6"
	859	80	496			24.6	202	
	864	44	496			24.3	285	
	869	94	496			24.6	307	
	874	50	496			25.6	310	
3/6/2001	874		496	27.25	57.55			
	879	72	496			**24.6**	**196**	PACKER: 854'-879' LAB SAMPLE
3/7/2001	879		496	27.25	56.93			
3/12/2001	879		496	27.31	56.59			
	884	80	496			27.2	304	
	889	52	496			27.2	308	
	894	62	496			27.3	285	
	899	60	496			27.3	238	
	904	74	496			27.3	254	
	909	60	496			27.4	296	
	914	80	496			27.3	303	
	919	100	496			27.4	342	
3/13/2001	919		496	27.25	56.52			RAIN: .07
	924	90	496					
	929	86	496					
	934	80	496					
	939	64	496			25.2	373	
	944	56	496			25.3	385	
	949	64	496			25.6	360	
	954	50	496			25.8	390	
	959	94	496			24.3	299	
3/14/2001	959		496	27.37	57.15			
	964	60	496			23.3	345	
	969	90	496			23.6	370	
3/20/2001	969		496	27.55	57.72			
	974	88	496					
	979	66	496					
	984	78	496			**23.8**	**157**	PACKER: 956'-984' LAB SAMPLE
3/22/2001	984		496	27.5	55.73	24.8	299	PACKER: 956'-984'
3/27/2001	984		496	27.65	55.7			
	989	58	496					
	994	86	496					
	999	76	496					
	1004	36	496			24.8	240	WQ FROM AIRLIFT
	1009	100	496					
	1014	62	496					
	1019	62	496					
	1024	42	496					
3/28/2001	1024		496	27.7	56.32			
	1029	74	496					
	1034	100	496					
	1039	62	496					
	1044	90	496					
4/2/2001	1044		496	27.8	54.6			
	1049	100	496					
	1054	100	496					
	1059	100	496					
	1064	100	496			24.9	273	WQ FROM AIRLIFT
	1069	100	496					
	1074	100	496					
	1079	100	496					
4/3/2001	1079		496	26.95	54.3	**25.3**	**140**	PACKER: 1054'-1079' LAB SAMPLE
	1084	100	496					
	1089	100	496					
	1094	100	496					
	1099	76	496					
	1104	62	496					
	1109	100	496					
	1114	100	496					
4/4/2001	1114		496	26.74	53.92	**25.5**	**157**	PACKER: 1074'-1114' LAB SAMPLE
	1119	100	496					

ROMP 29A CORESITE DATA

DATE	STARTING DEPTH FT BLS	% RECOV	4" DEPTH	WS - WL FT BLS	WL - CH FT BS	TEMP	COND	COMMENTS
	1124	100	496					
	1129	48	496					
	1134	78	496					
	1139	100	496					
	1144	90	496					
	1149	100	496					
	1154	100	496					
4/5/2001	1154		496	26.95	53.75			RAIN: .90"
	1159	48	496					
	1164	80	496					
	1169	100	496					
	1174	60	496			25.2	285	WQ FROM AIRLIFT
	1179	44	496					
	1184	30	496					
	1189	100	496					
	1194	90	496			24.8	293	WQ FROM AIRLIFT
4/9/2001	1194		496	26.77	52.48			
	1199	100	496					
	1204	100	496					
	1209	84	496			**25.5**	**197.6**	PACKER: 1165'-1209' LAB SAMPLE
	1214	100	496					
	1219	100	496					
	1224	100	496					
	1229	100	496					
4/10/2001	1229		496	26.88	52.64			
	1234	100	496					
	1239	78	496					
	1244	84	496					
4/11/2001	1244		496	26.89	52.04	**25.8**	**143**	PACKER: 1219'-1244' LAB SAMPLE