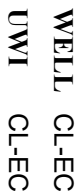


SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

RFB #1818

**LAKE WALES WELLSITE PHASE 1 – HYDROGEOLOGICAL INVESTIGATION OF
THE LOWER FLORIDAN AQUIFER IN POLK COUNTY, FLORIDA**

**FIGURE 2
CROOKED LAKE GEOPHYSICAL LOGS**



Geology and Geophysics

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LOG STAGE FULL COMPOSITE

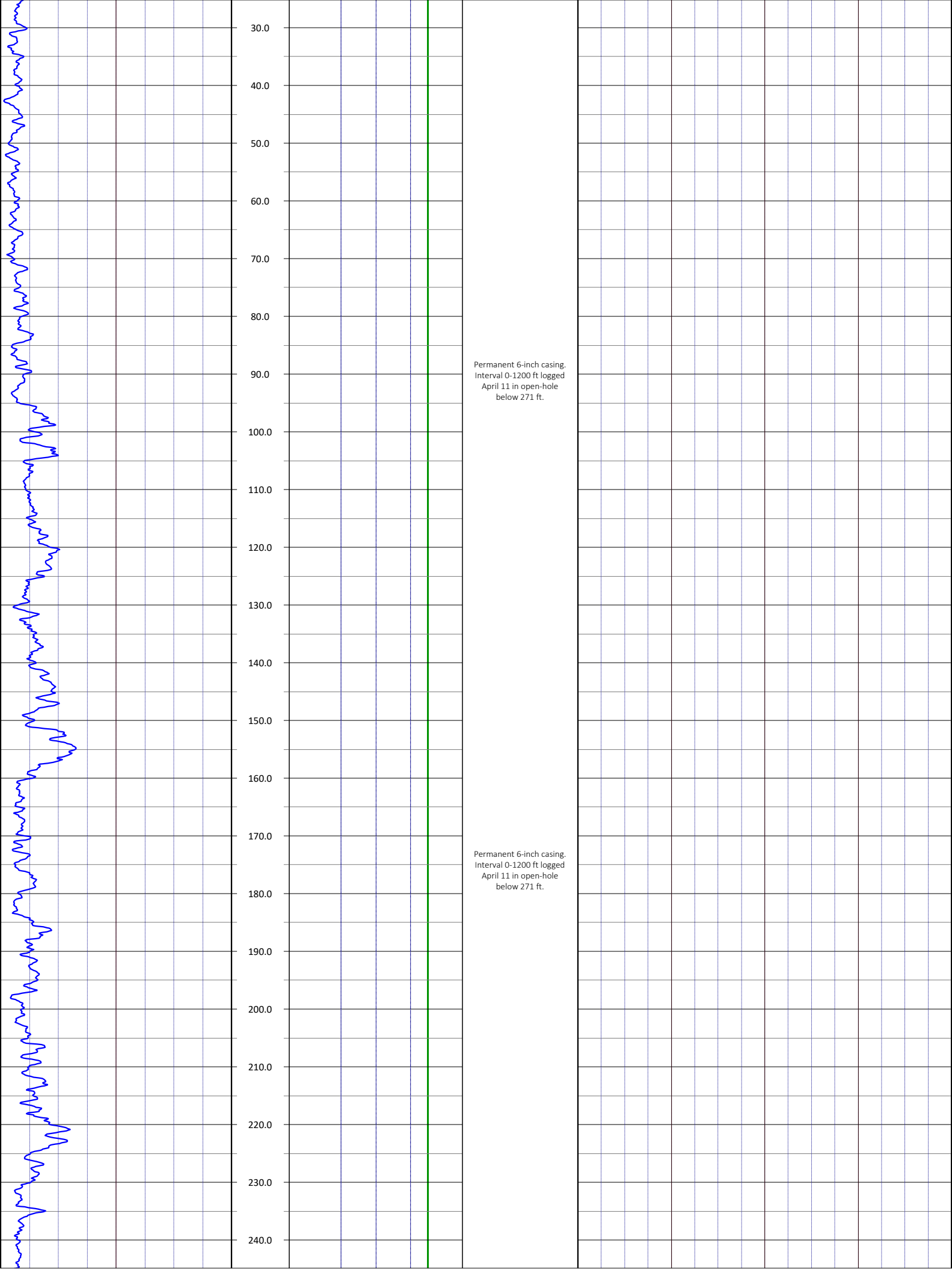
rob@rmbaker.com
www.rmbaker.com

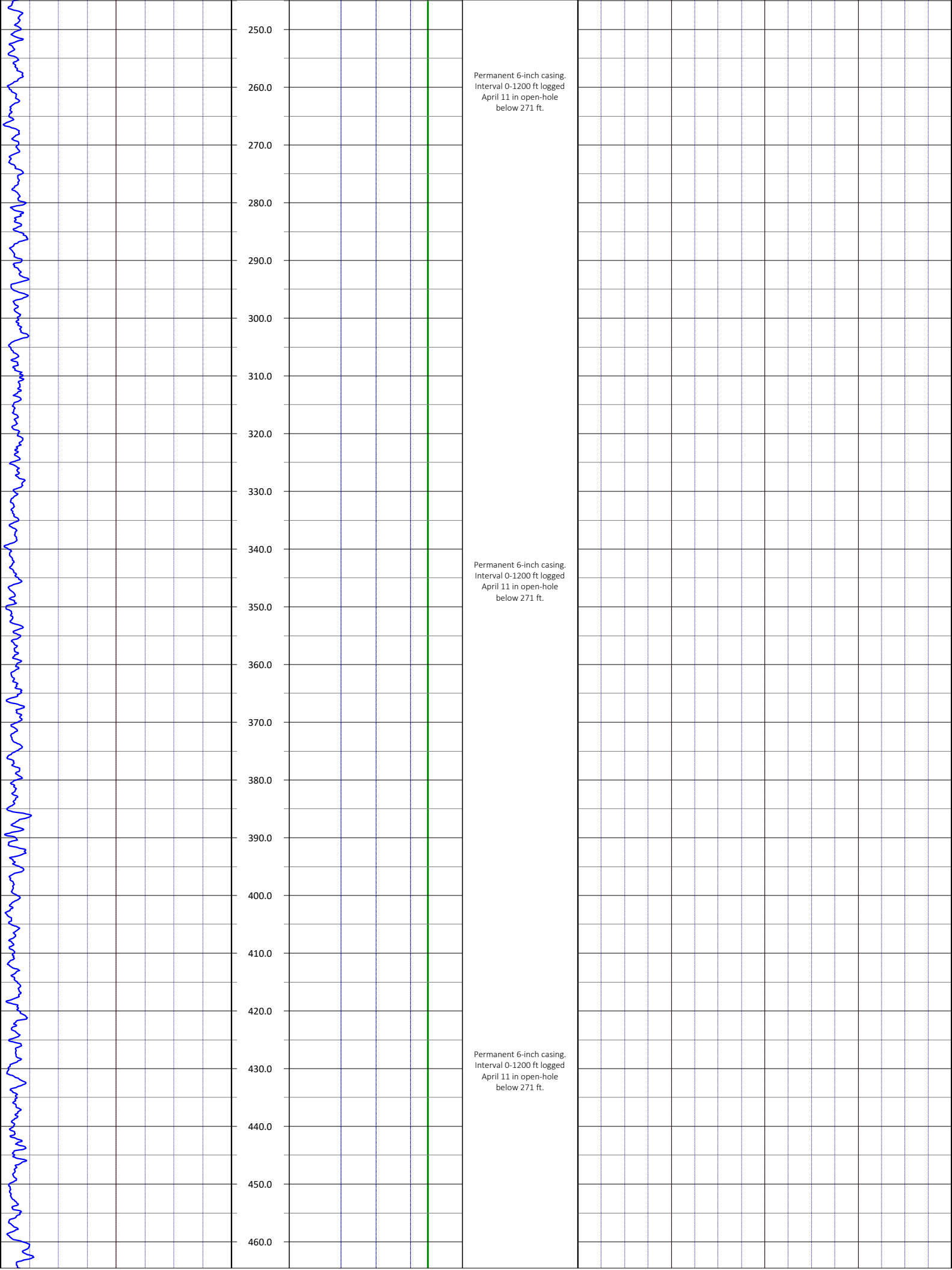
HEADER NOTES:
LOGGING OCCURRED ONLY TO A DEPTH OF APPROXIMATELY 3000
FEET.

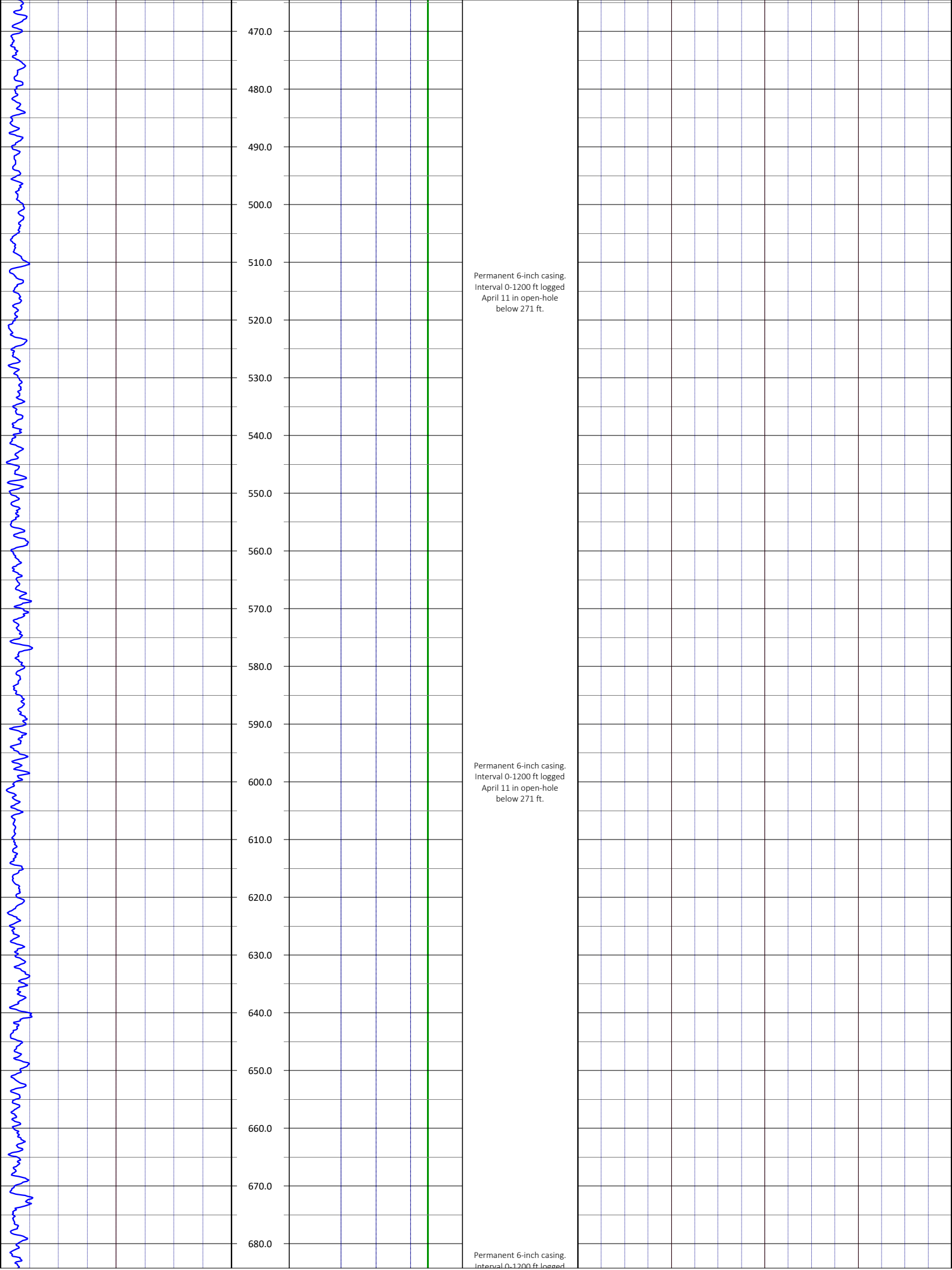
PERMANENT DATUM:
LOG MEASURED FROM: GROUND SURFACE
DRILLING MEASURED FROM:

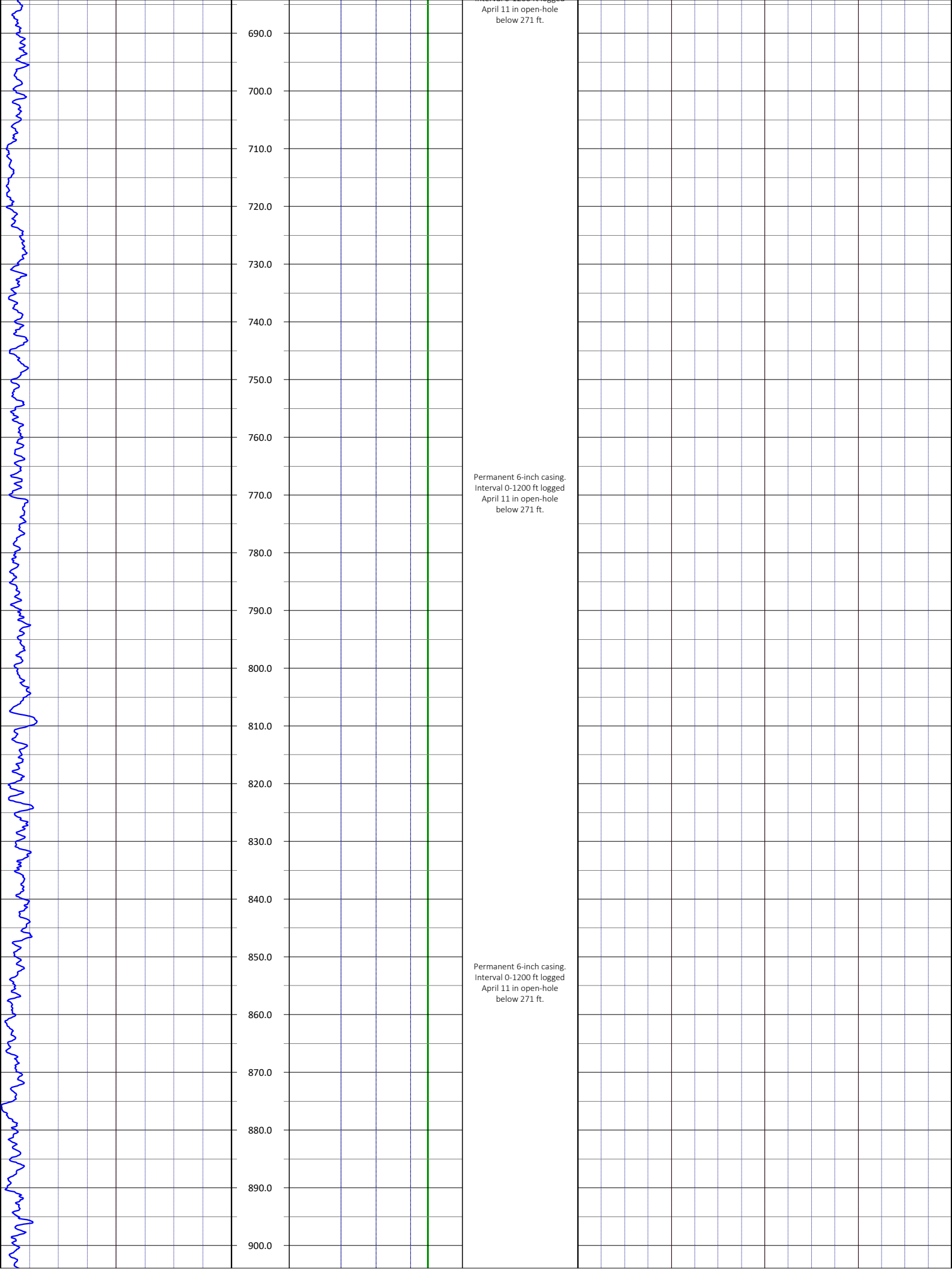
[illegible]

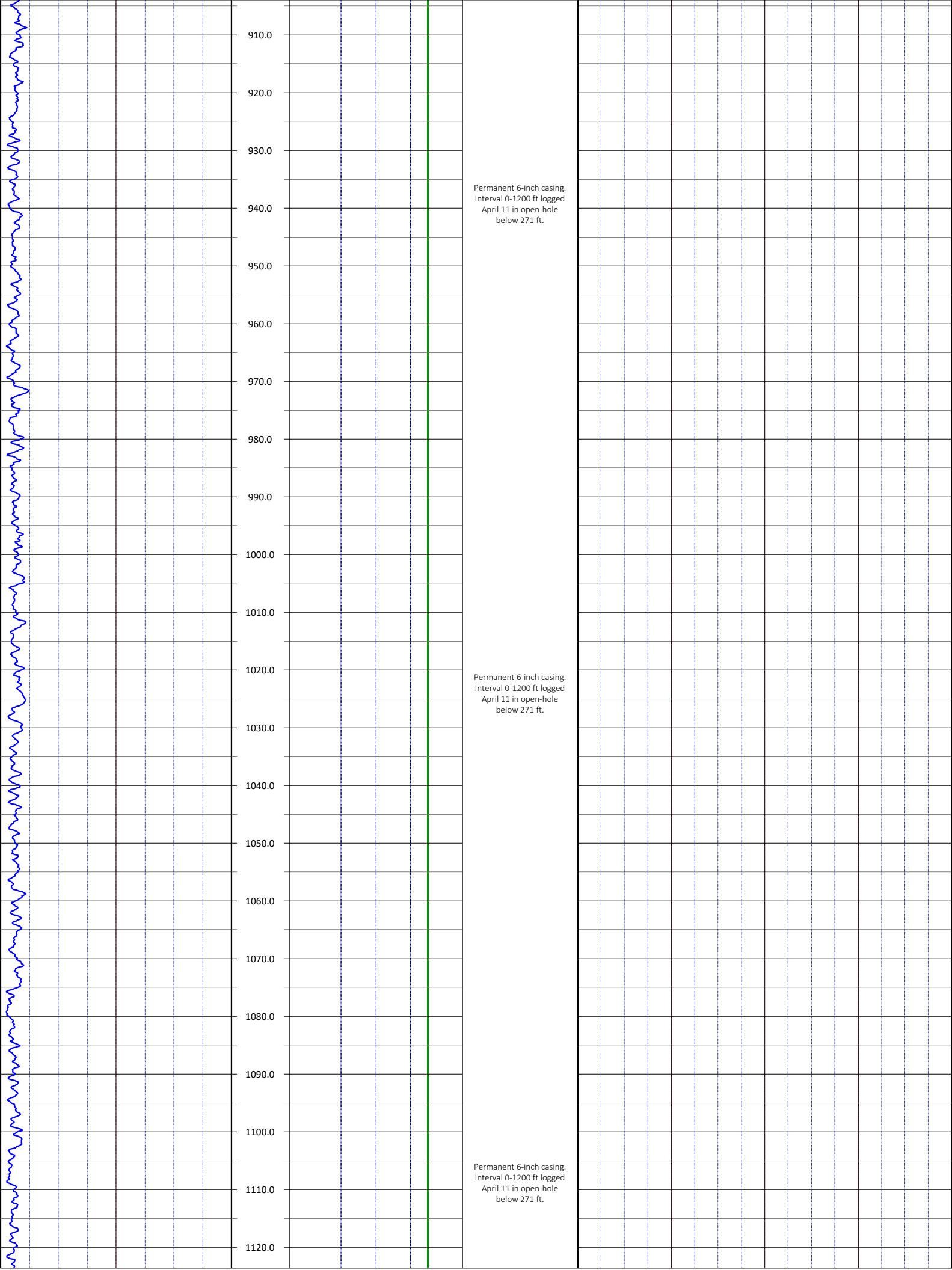
The diagram illustrates the layout of a well log, showing various data tracks and scales. The top section includes scales for GAMM 11-13 (0 to 200 CPS), Depth (1 in: 20 ft), CASINGS (0 to 8 IN), DATA SPLICES (0 to 8 IN), and CAL (0 to 8 IN). The bottom section shows a grid for plotting data, with a vertical axis for Depth (0.0 to 20.0 ft) and a horizontal axis for CASINGS (0 to 8 IN). The data tracks are labeled: CORE ROD, 4-INCH TEMP, 5-INCH TEMP, 6-INCH PERM, and DATA SPLICES. A note indicates: "Permanent 6-inch casing. Interval 0-1200 ft logged April 11 in open-hole below 271 ft."

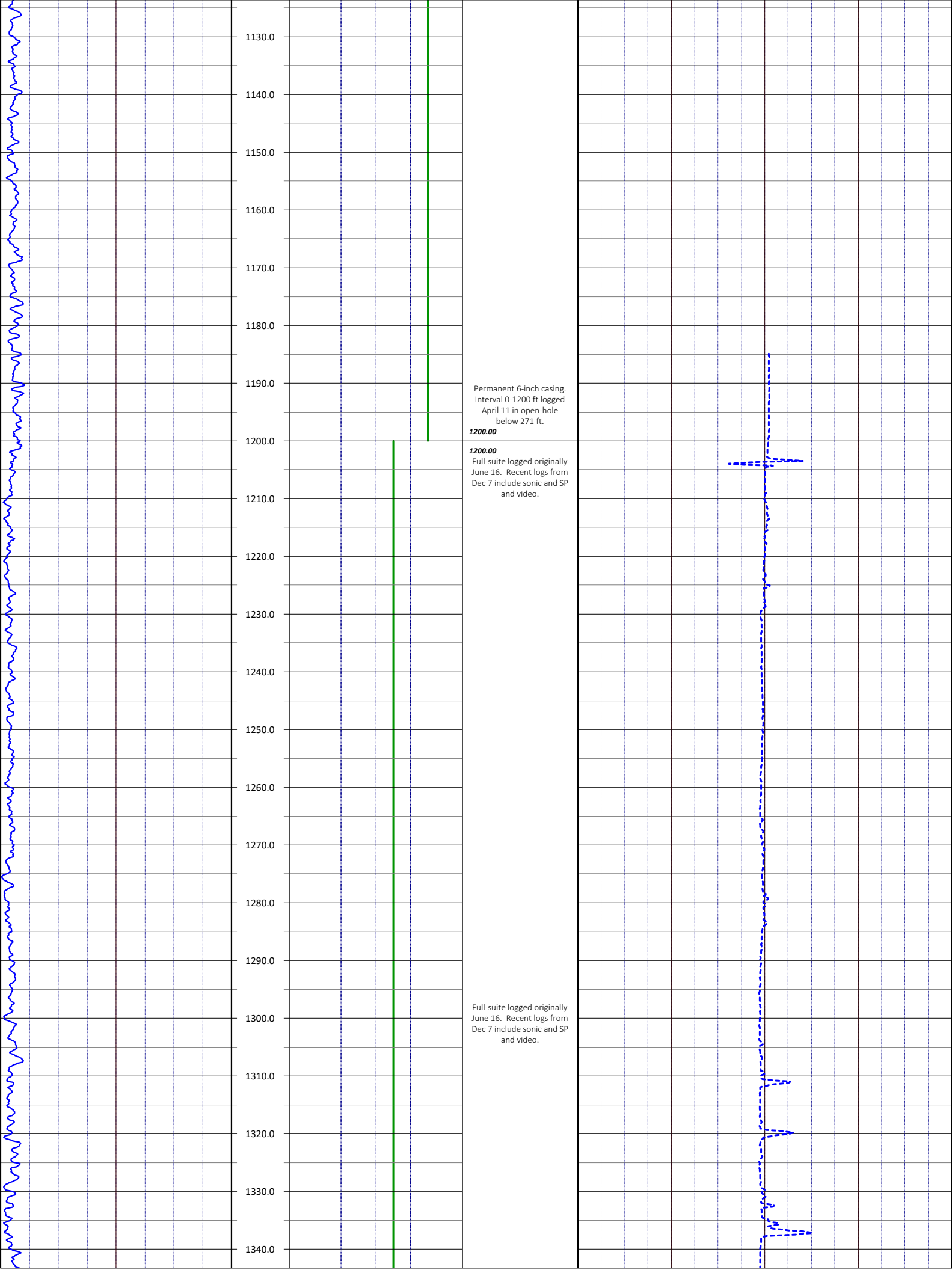


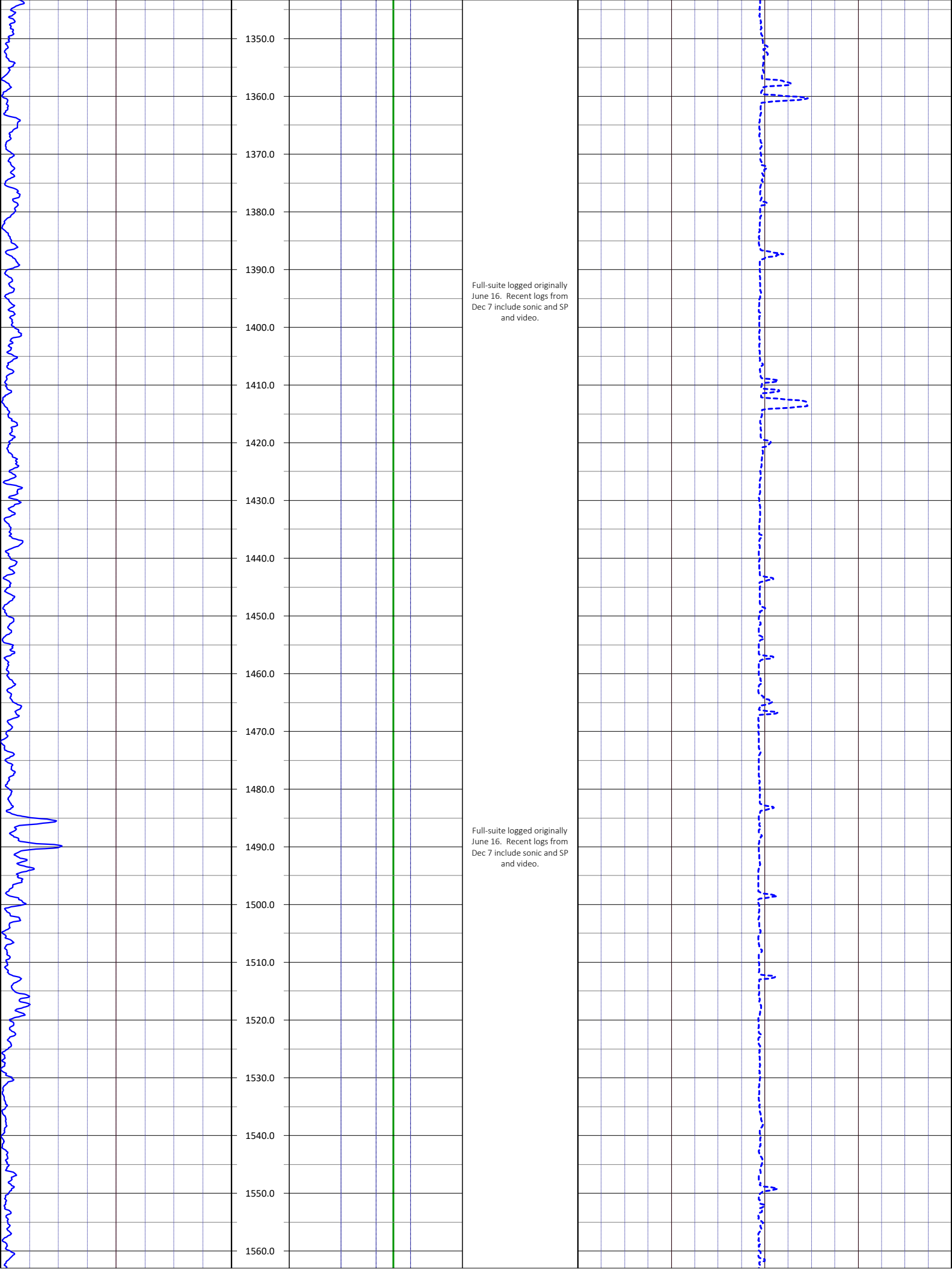


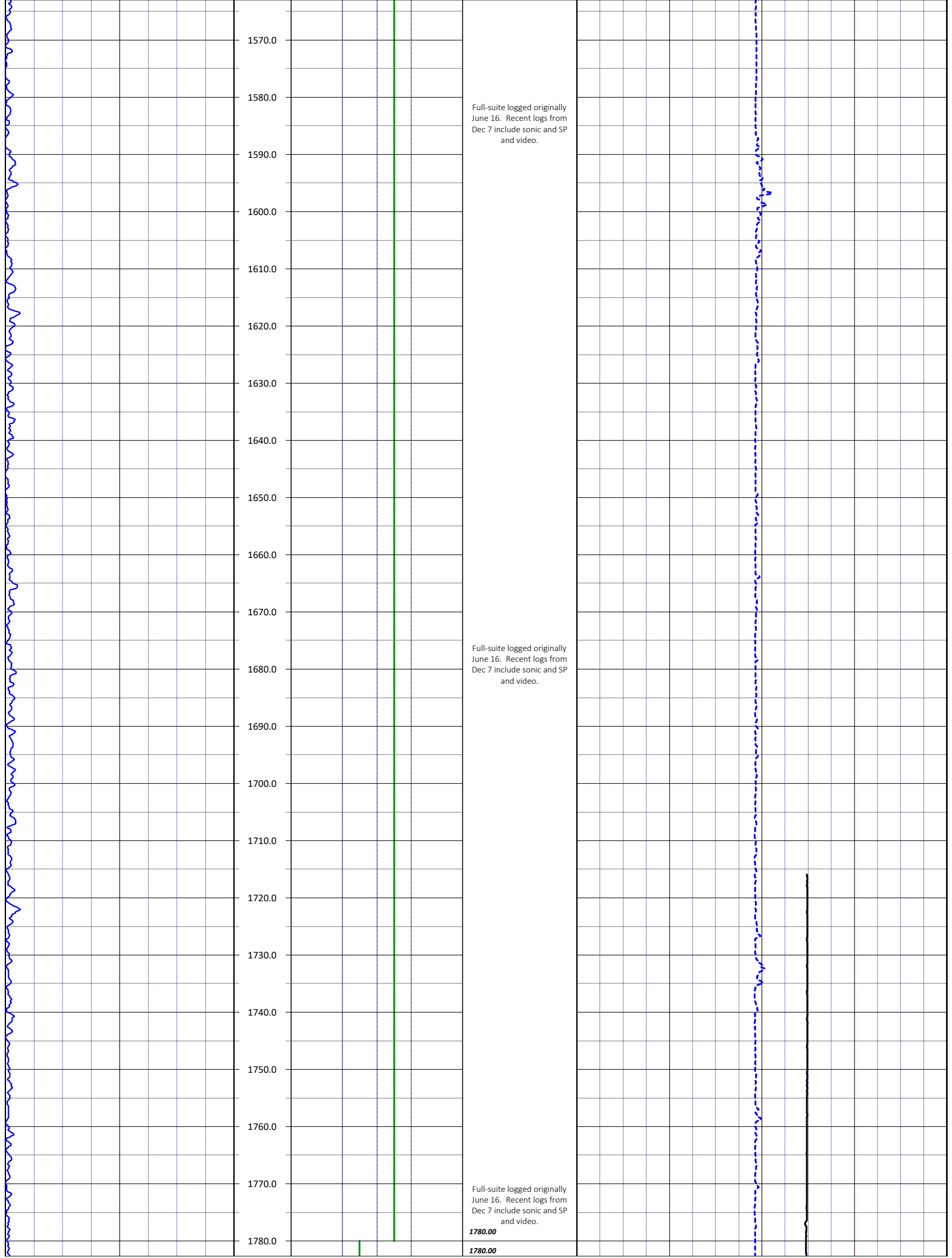


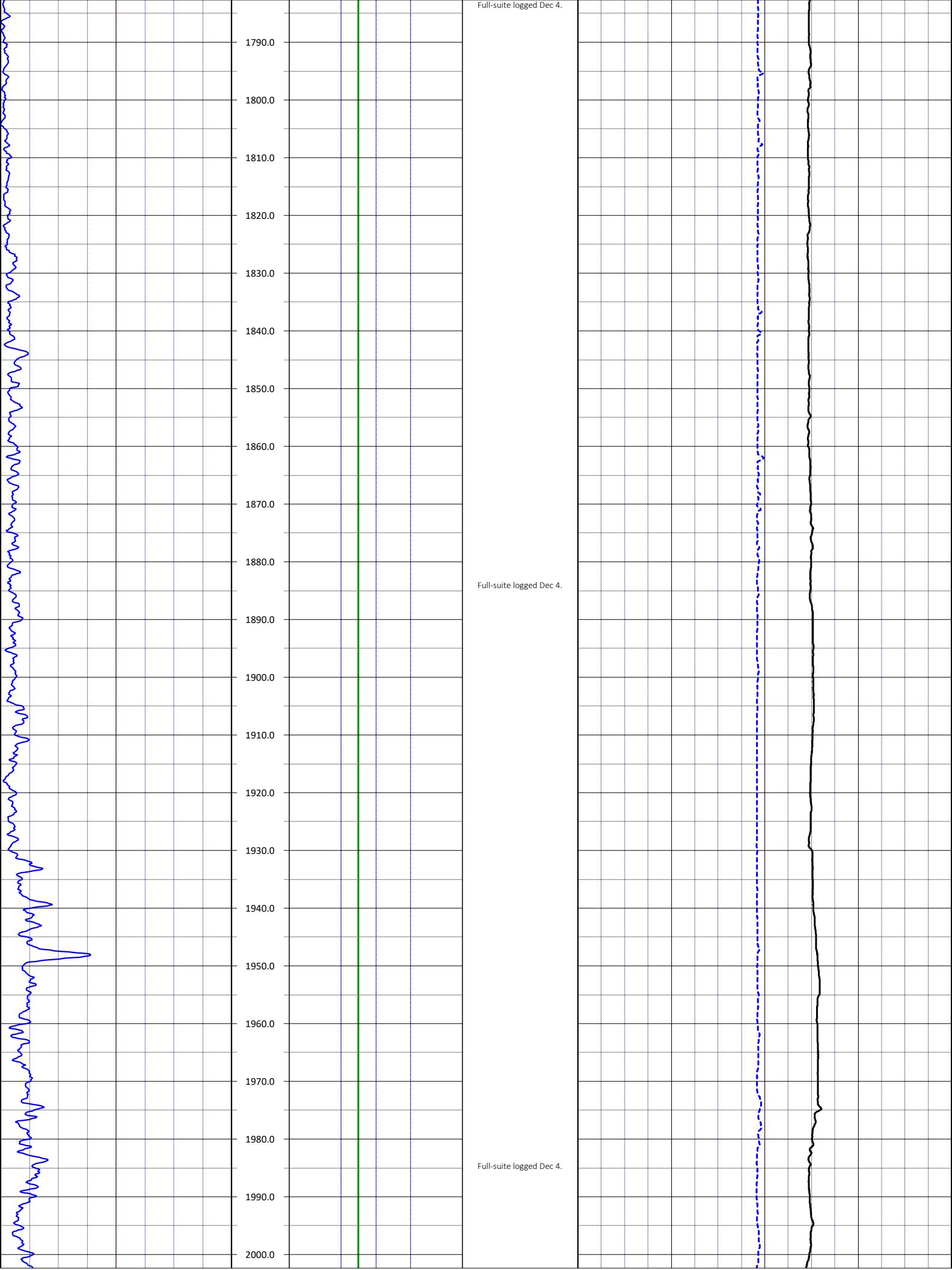


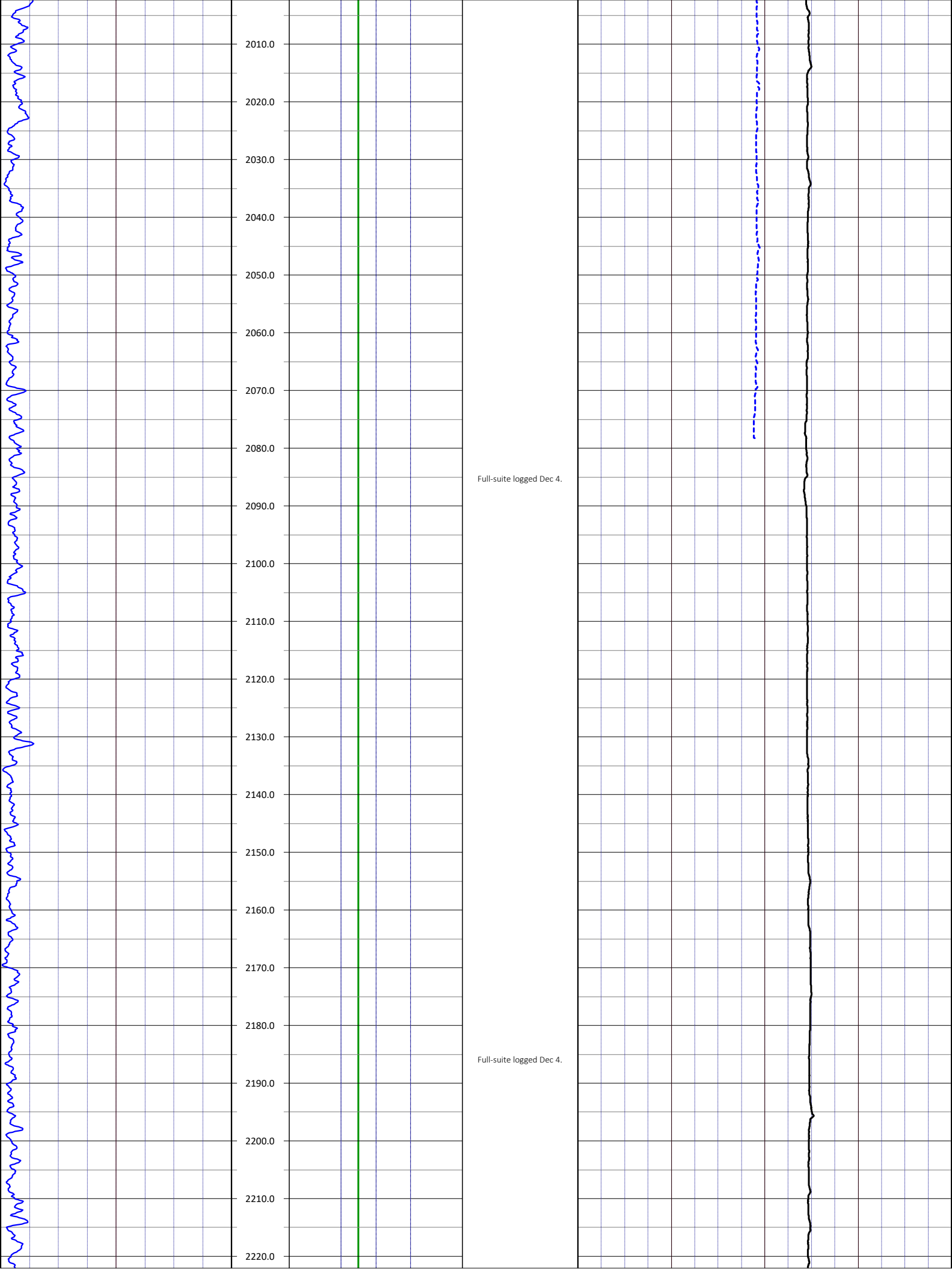


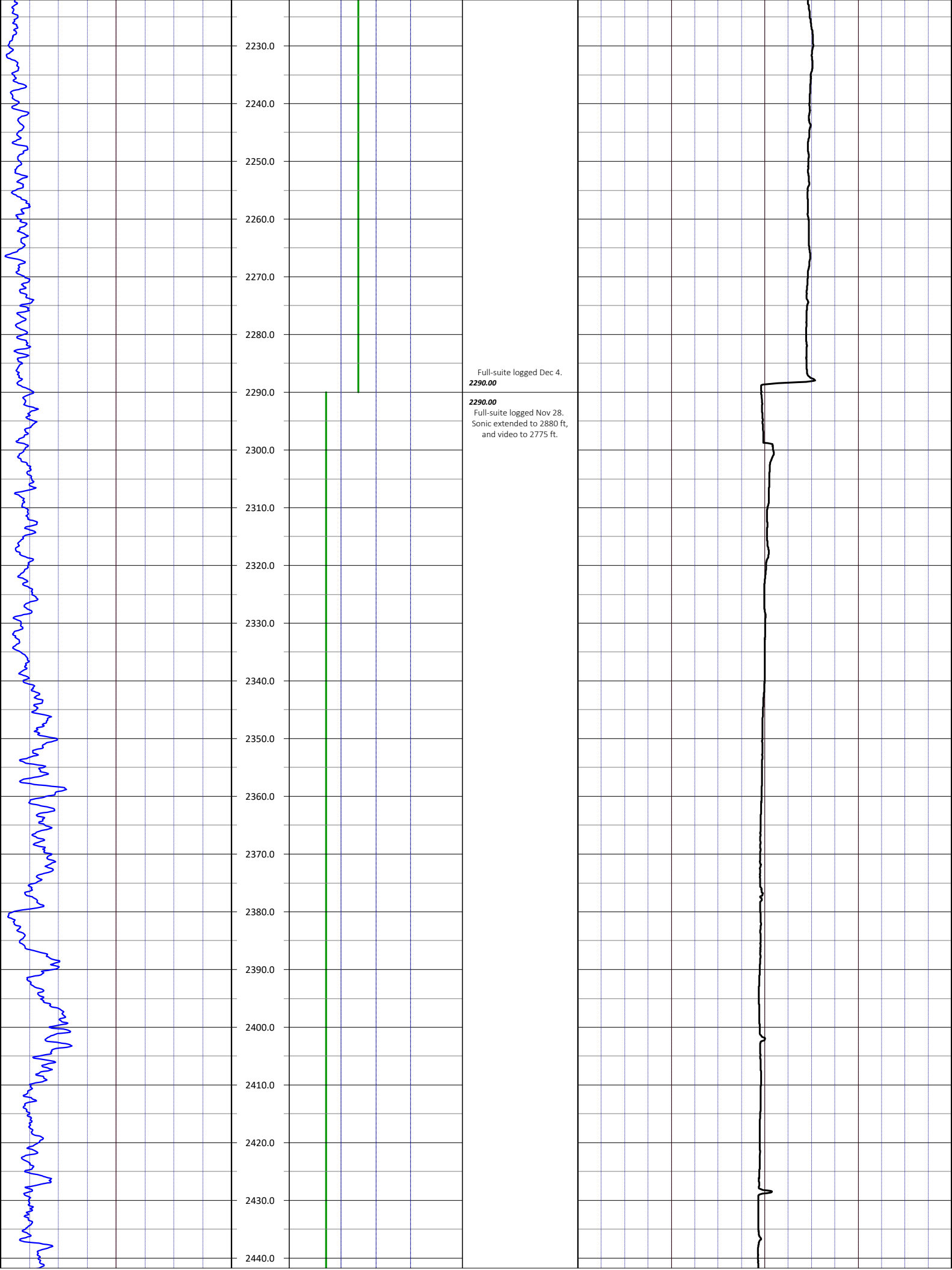


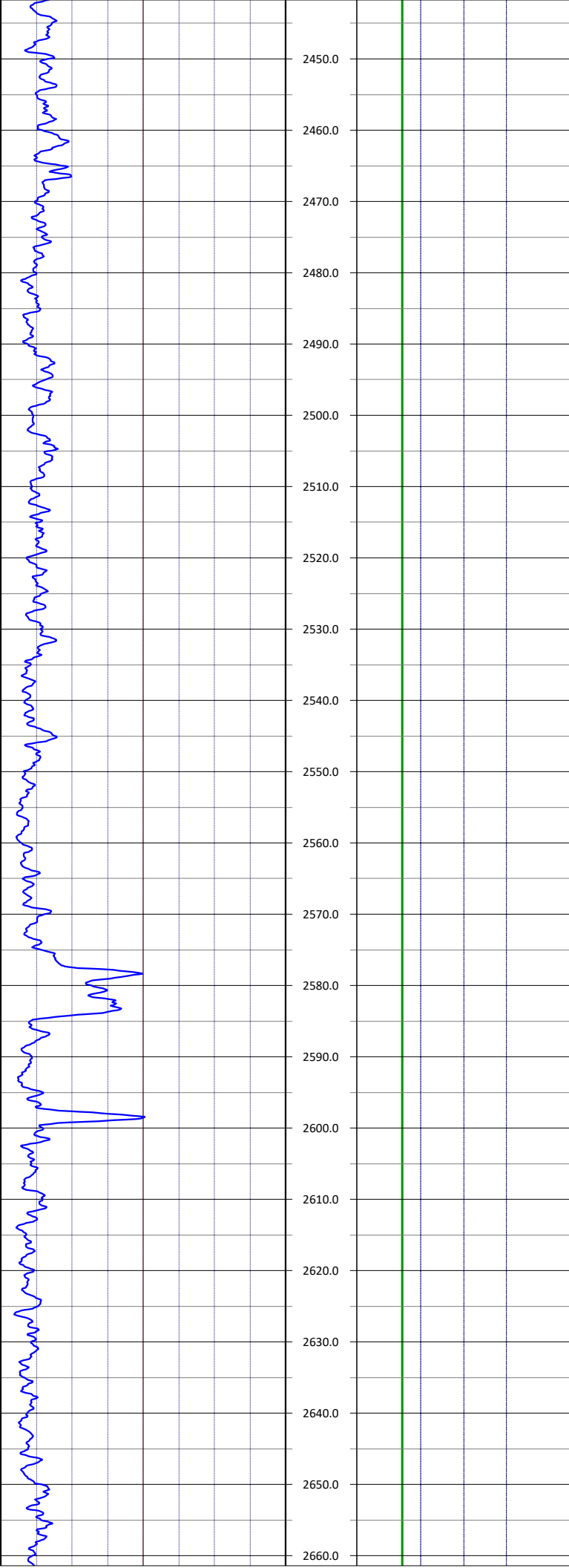








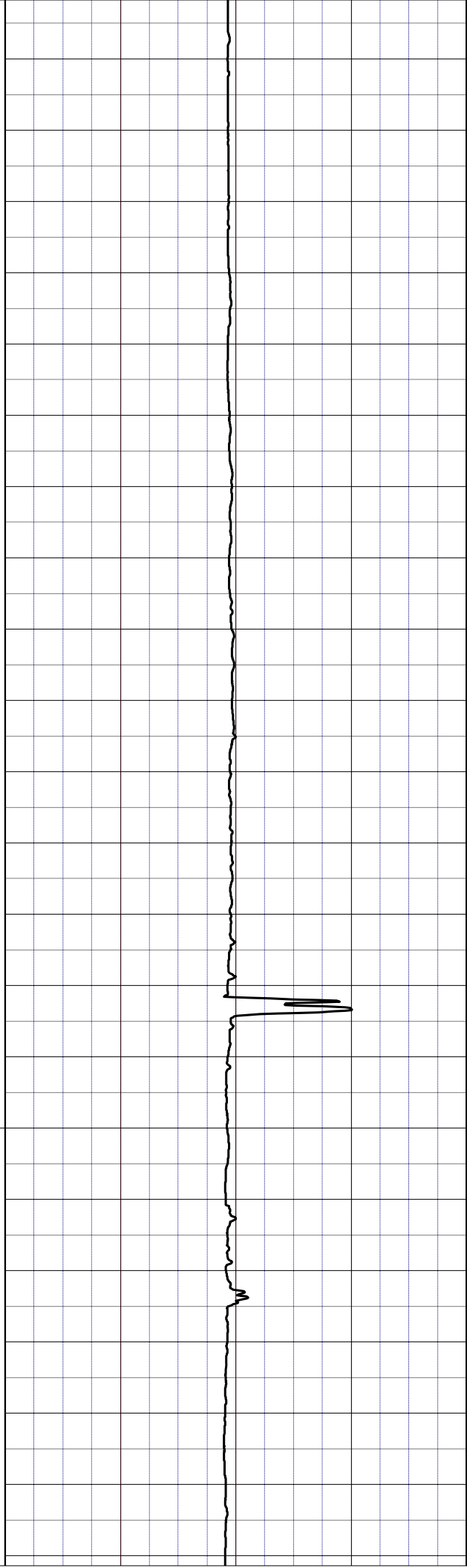


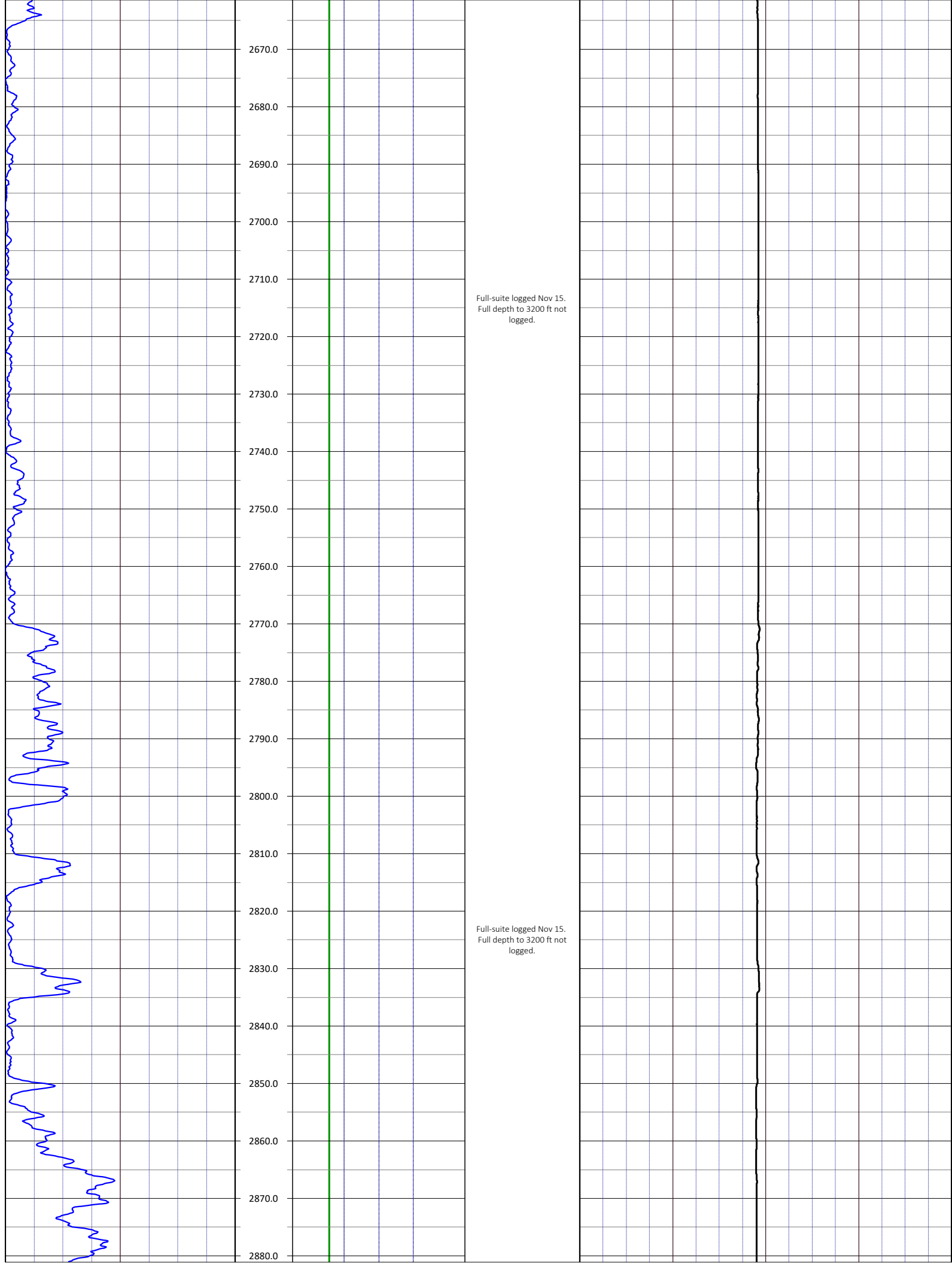


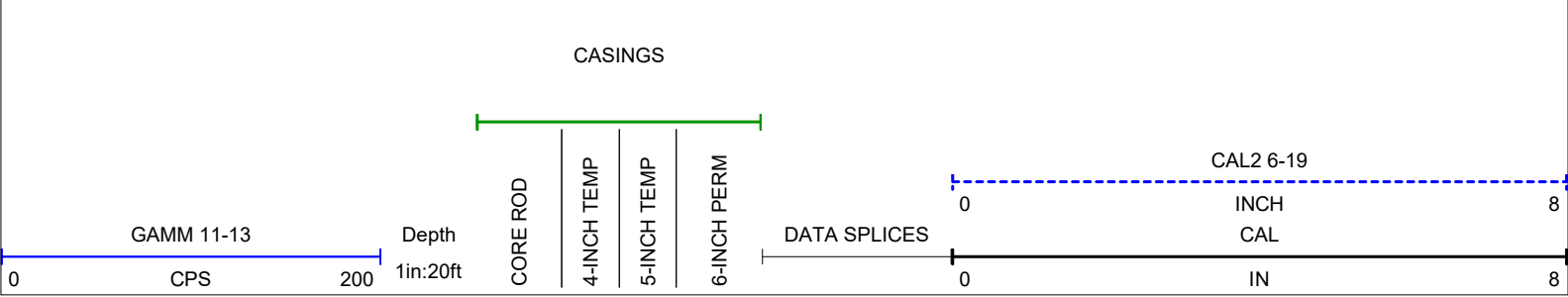
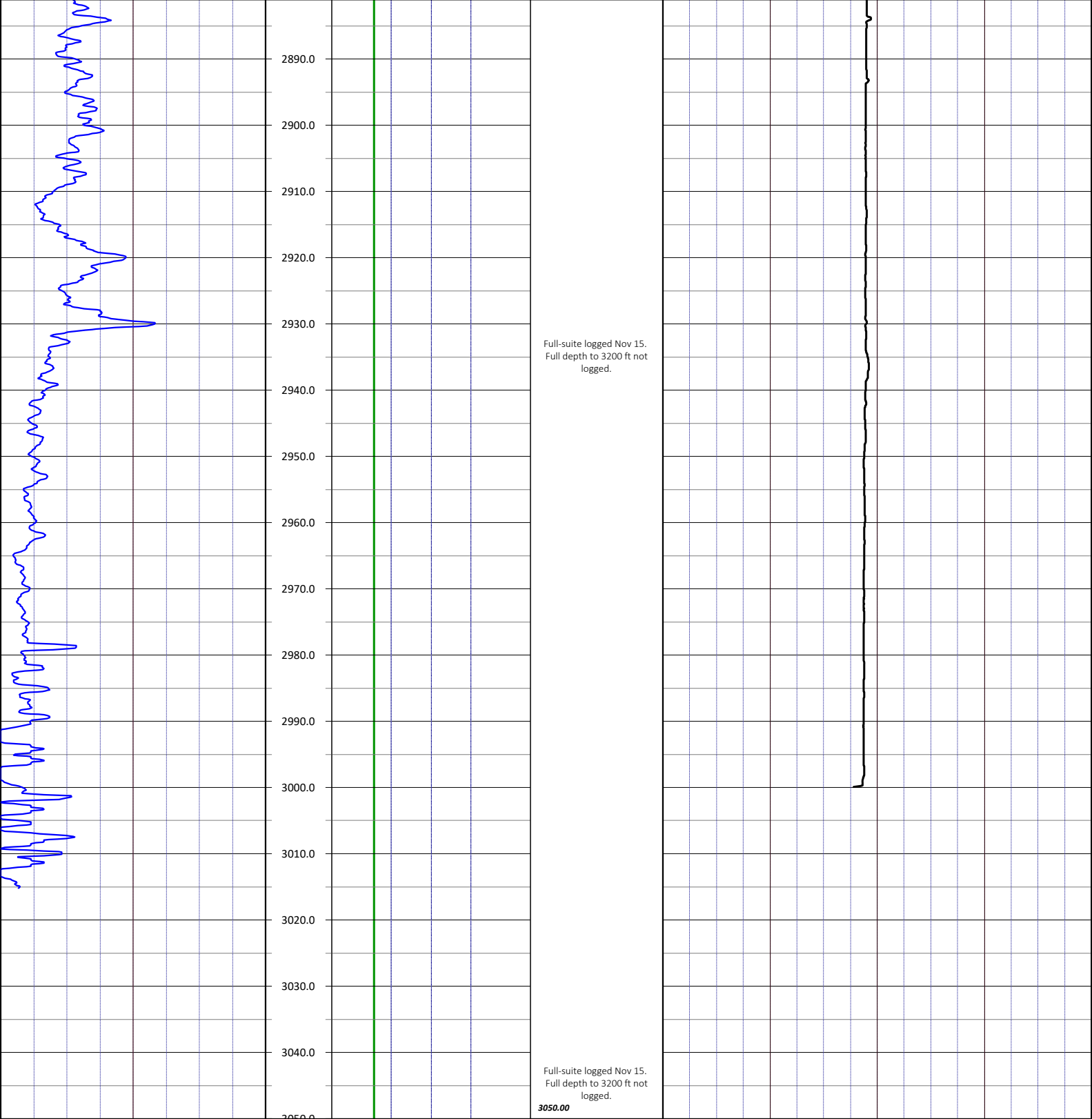
Full-suite logged Nov 28.
Sonic extended to 2880 ft,
and video to 2775 ft.

Full-suite logged Nov 28.
Sonic extended to 2880 ft,
and video to 2775 ft.
2600.00

2600.00
Full-suite logged Nov 15.
Full depth to 3200 ft not
logged.







NOTES:
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END OF LOG



RMBAKER LLC
Geology and Geophysics

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UWI CL-EC

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LOG STAGE PRE-ROCK CORING

rob@rmbaker.com
www.rmbaker.com

HEADER NOTES:

COMP SWFWMD
LOC CROOKED LAKE SITE
FLD CROOKED LAKE
CNTY POLK
STAT FL
PROV FL
CTRY USA

LATI X
LONG Y
GDAT WGS84
SEC HDAT
TWP ELEV
RGE V DAT

ALL SERVICES:
CALIPER
NATURAL GAMMA
ELECTRIC
DUAL INDUCTION
FLUID CONDUCTIVITY
FLUID TEMPERATURE
VIDEO

PERMANENT DATUM:

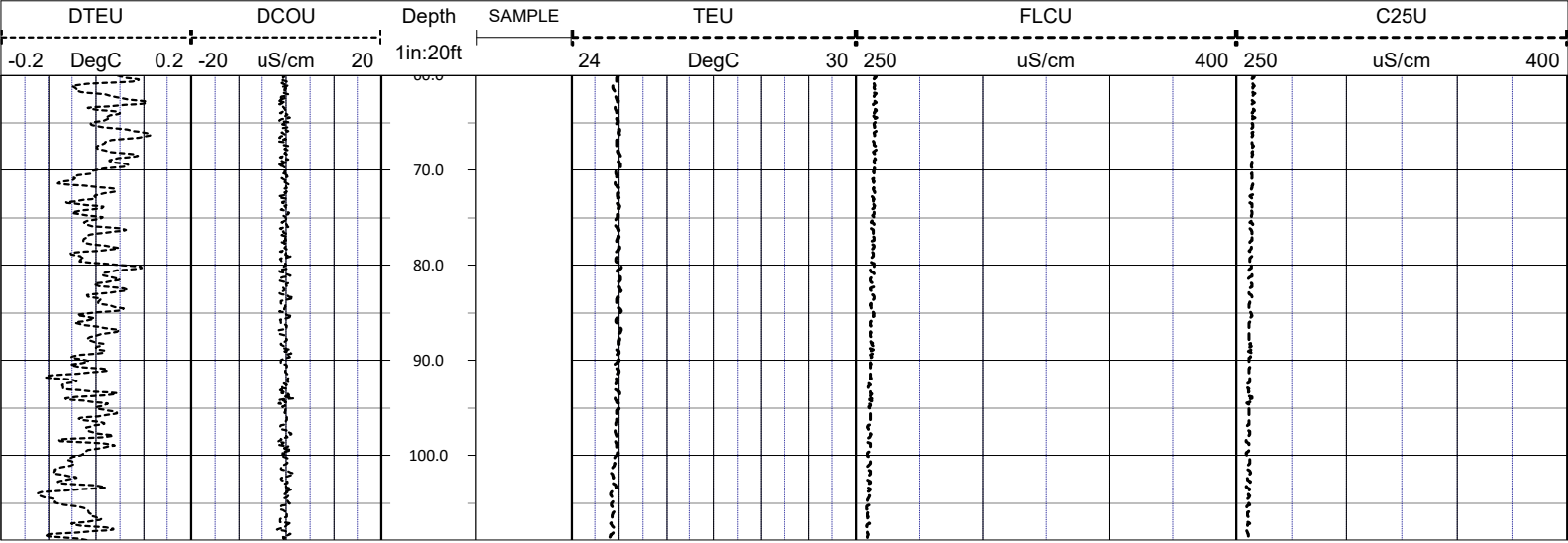
LOG MEASURED FROM: GROUND SURFACE

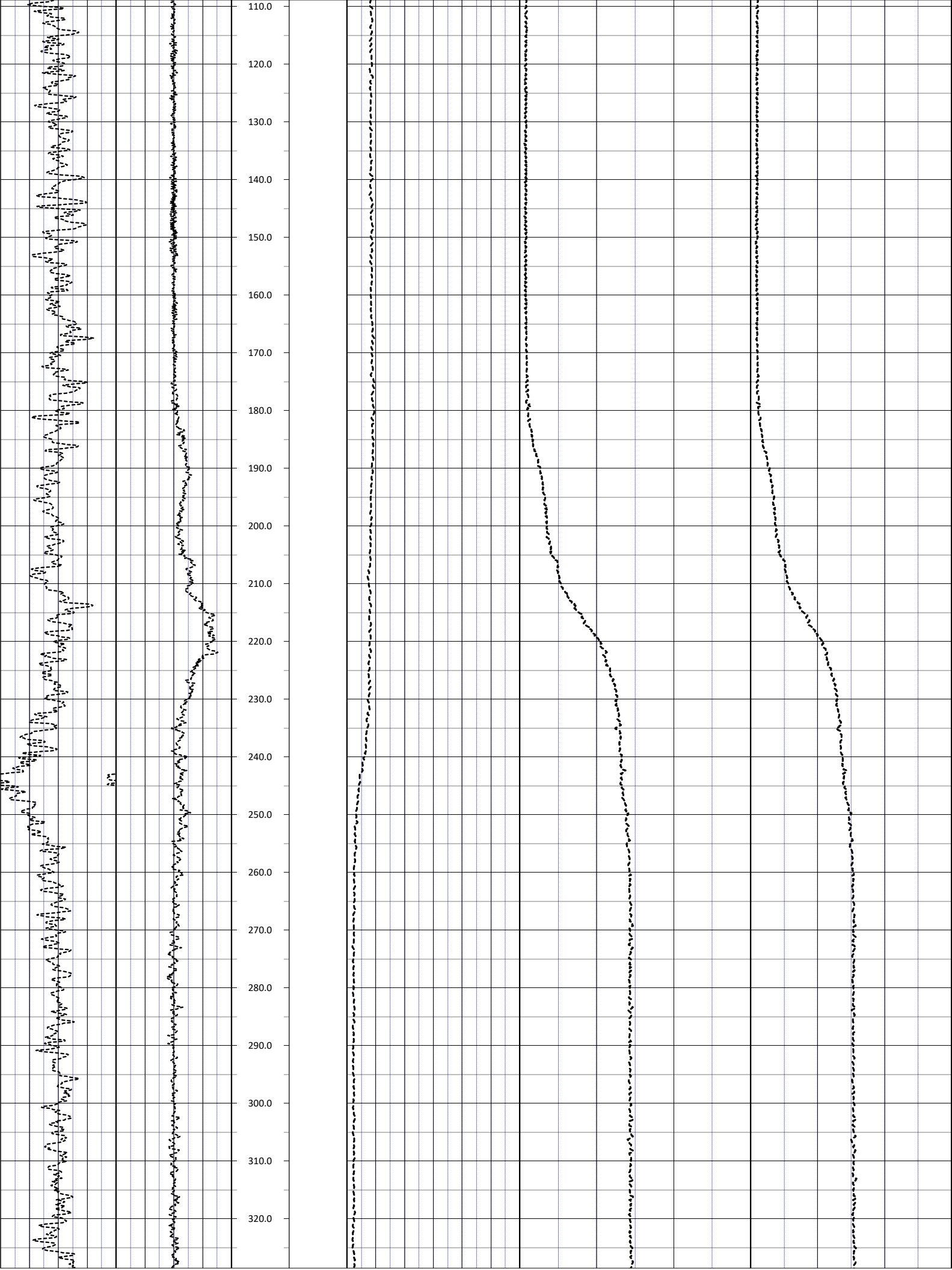
DILLING MEASURED FROM:

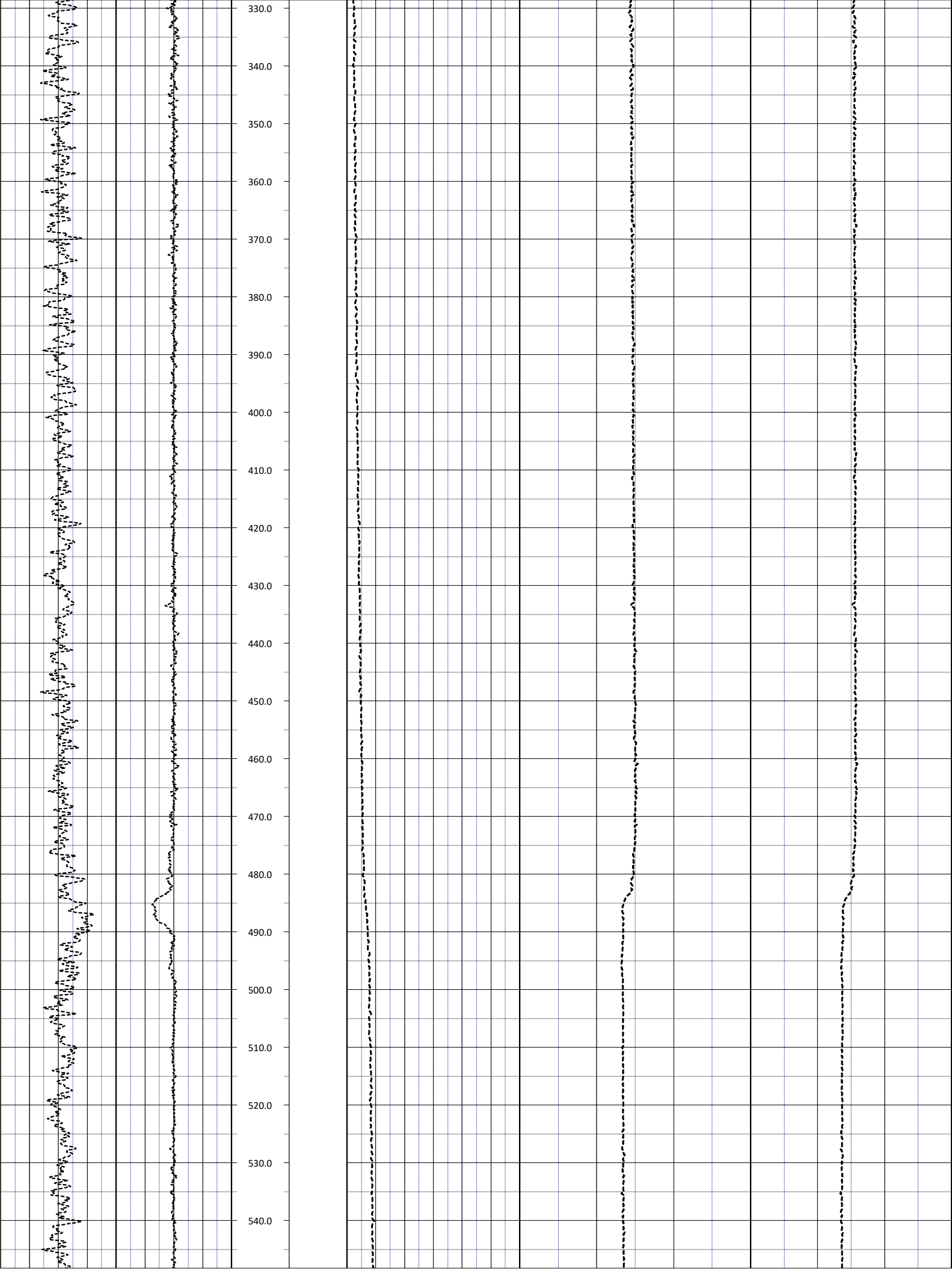
DATE	11 Apr 17	TYPE FLUID IN HOLE	WATER
RUN No	1	LOGGING SPEED (FT/MIN)	30
TYPE LOG	FLUID COND & TEMP	TROLLING DIRECTION	DOWN
		PUMPING RATE (GPM)	N/A
DEPTH-DRILLER	1203		
DEPTH-LOGGER	1204.3		
DRILLER	HUSS DRILLING		
RECORDED BY	RMB		
SRVC	RMBAKER LLC	API	N/A
WITNESSED BY	J. WATSON	LIC	N/A

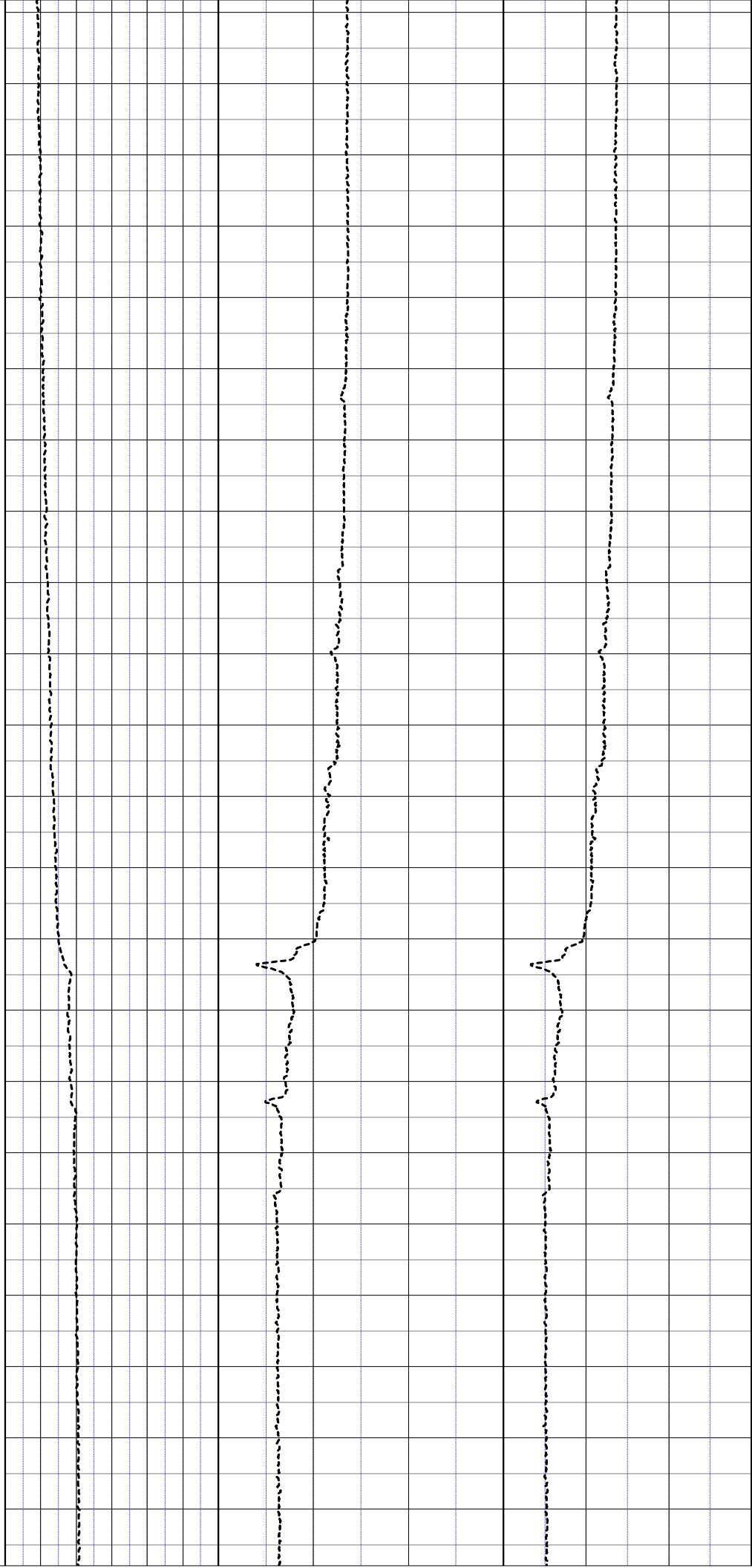
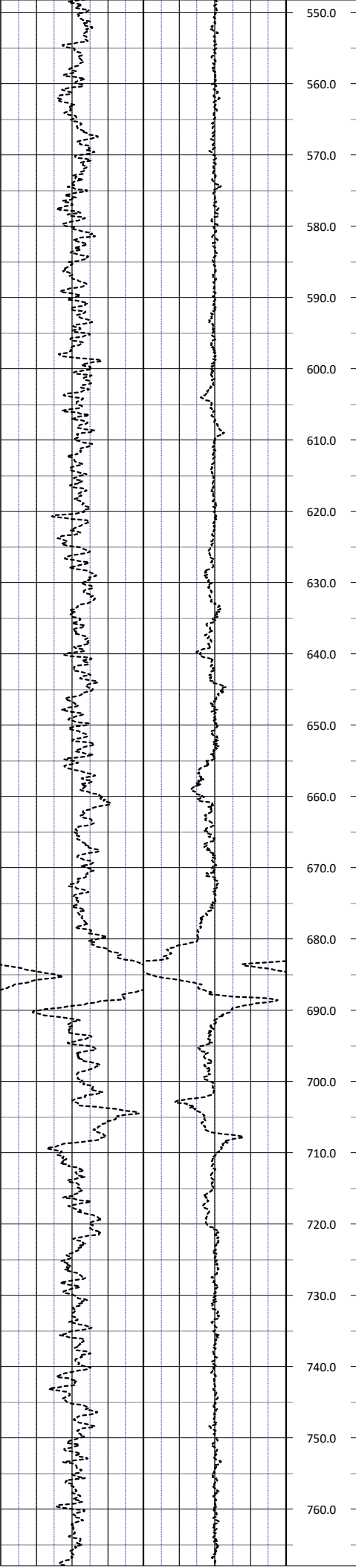
BOREHOLE RECORD				CASING RECORD			
RUN NO.	BIT	FROM	TO	SIZE	MAT.	FROM	TO
1	11.875	270	1204	12	STEEL	0	270

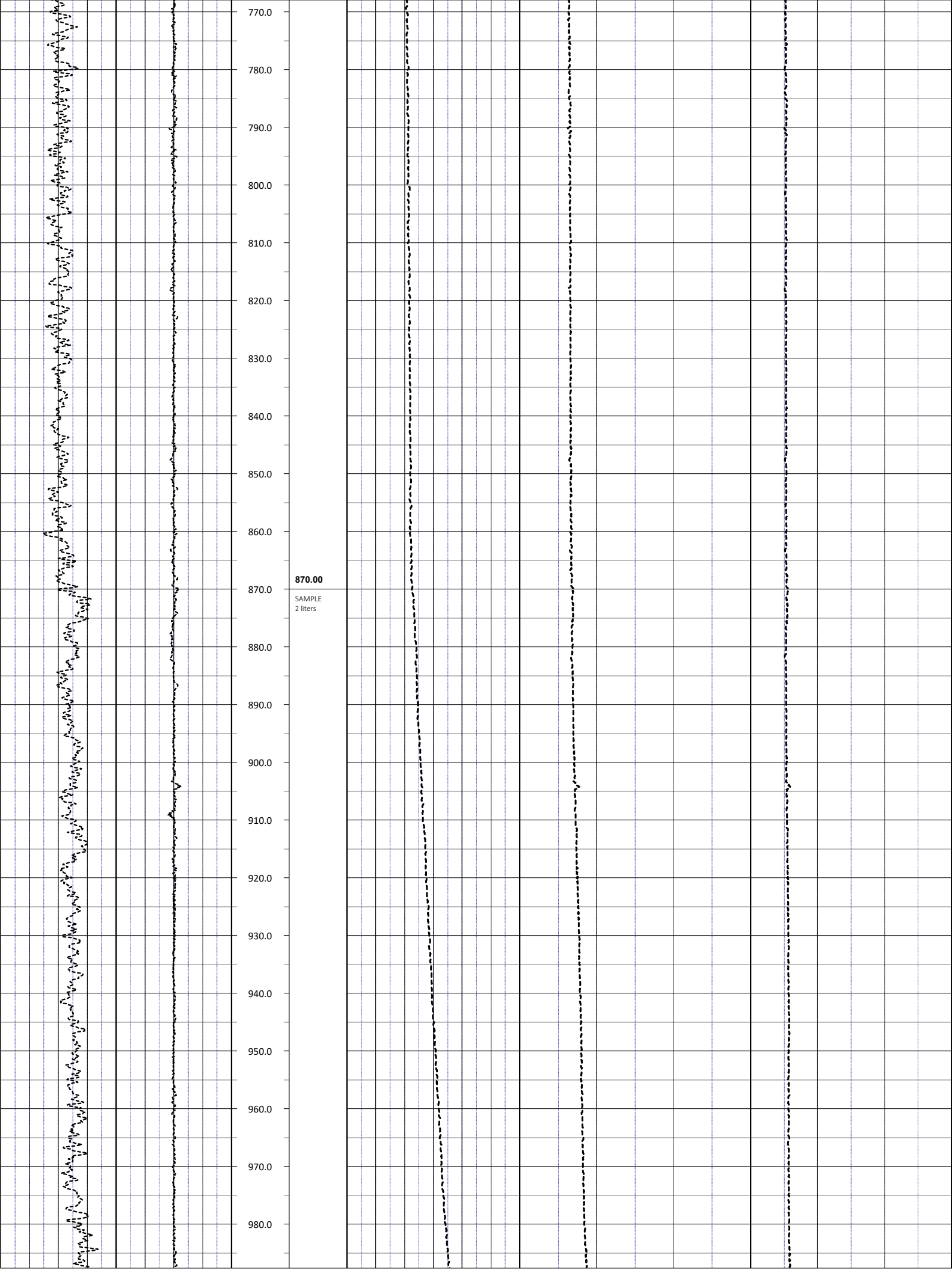
WATER QUALITY LOG CODES					
static fluid temperature	TEU	dynamic fluid conductivity	FLCP	caliper	CAL
dynamic fluid temperature	TEP	static differential cond.	DCOU	repeat designation	R
static differential temperature	DTEU	dynamic differential cond.	DCOP	natural gamma	GAMM
dynamic differential temp.	DTEP	static specific conductance	C25U		
static fluid conductivity	FLCU	dynamic specific conductance	C25P		

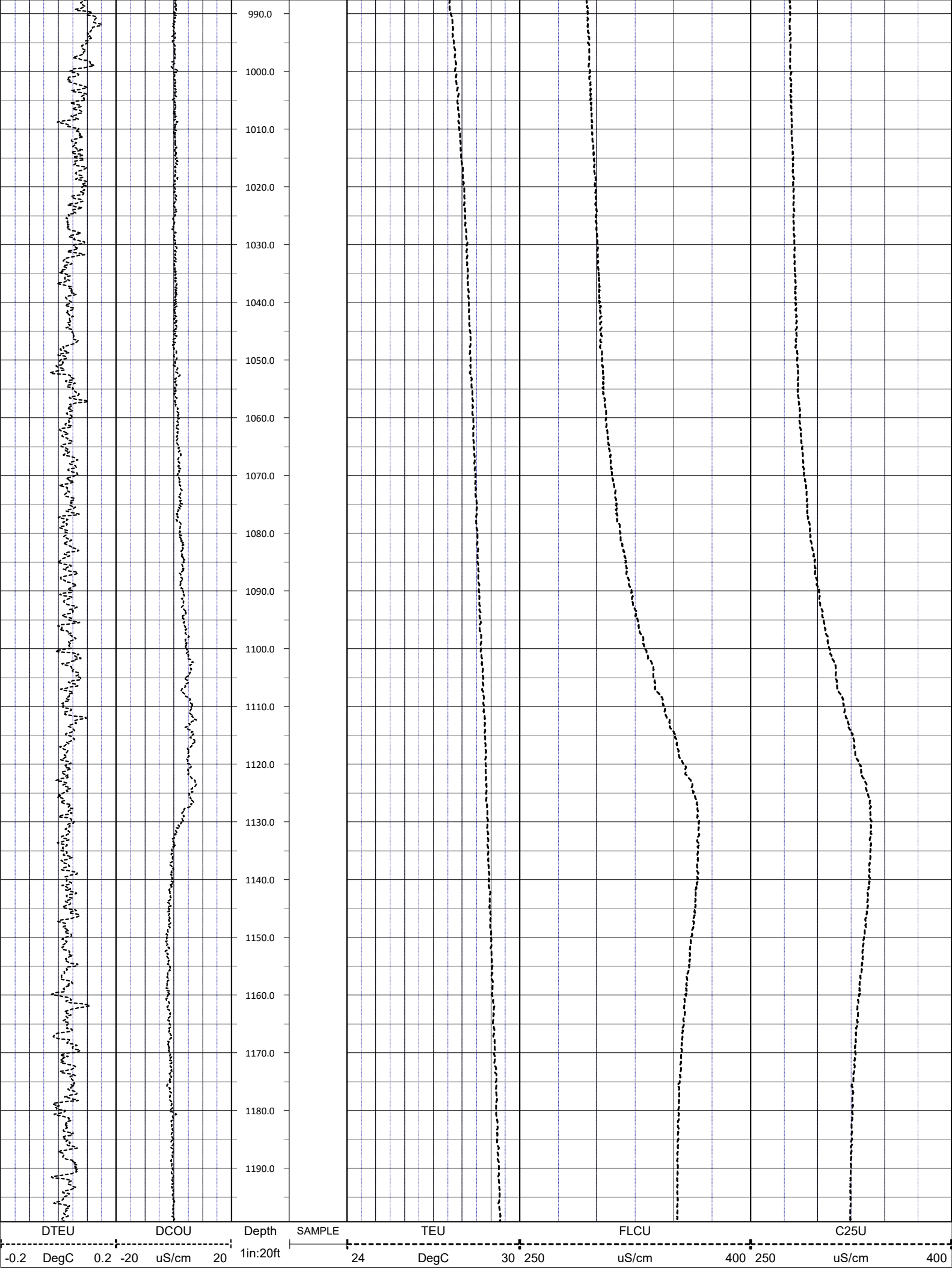












NOTES:

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END OF LOG



RMBAKER LLC
Geology and Geophysics

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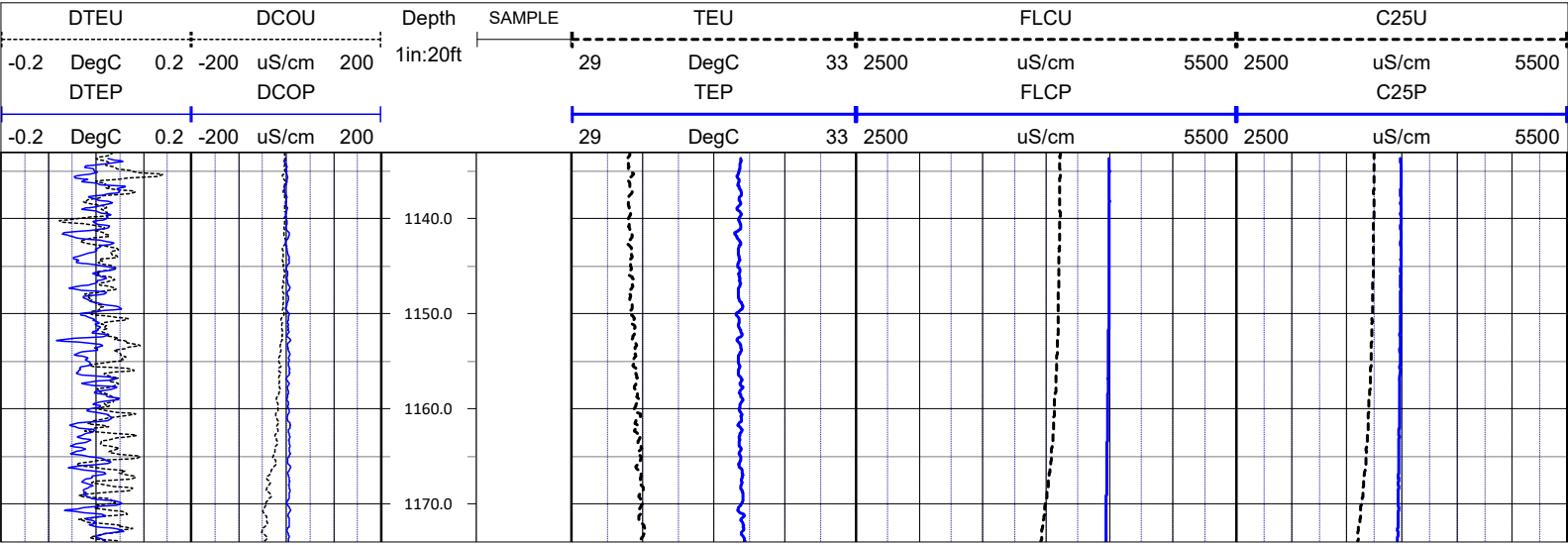
LOG STAGE 1200-2080 FT

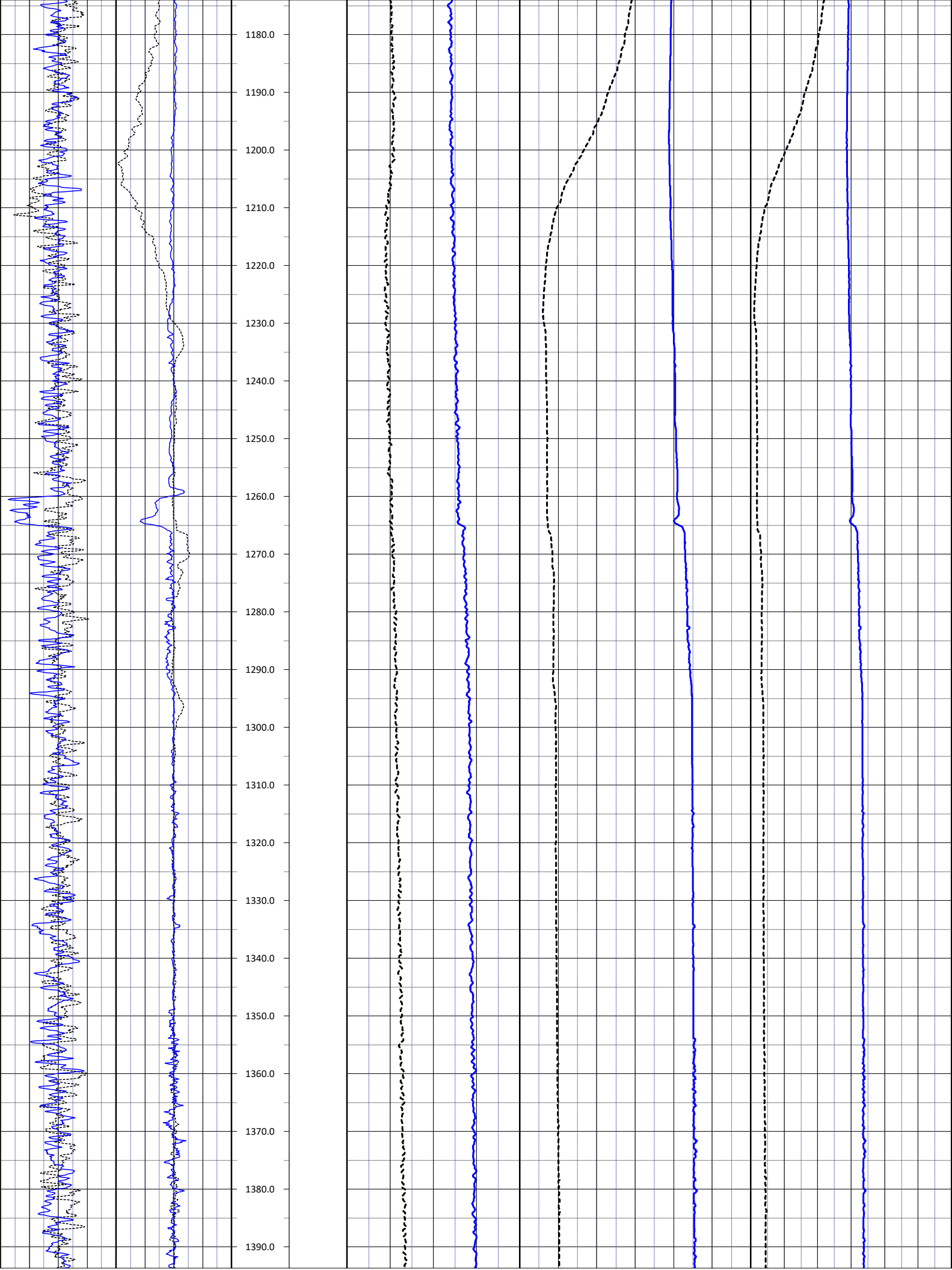
rob@rmbaker.com
www.rmbaker.com

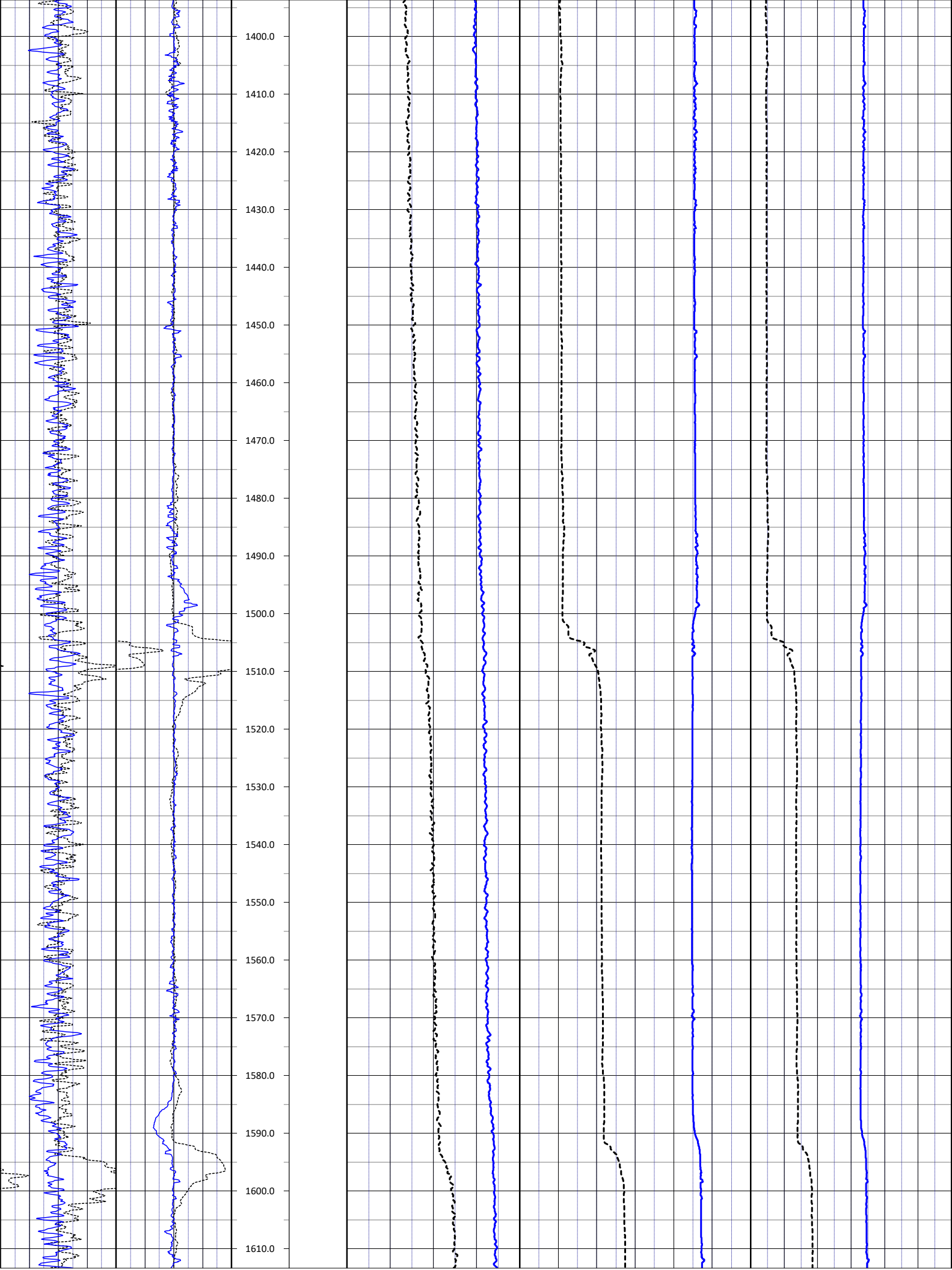
HEADER NOTES:
THE PUMPING RATE WAS 29 GPM.

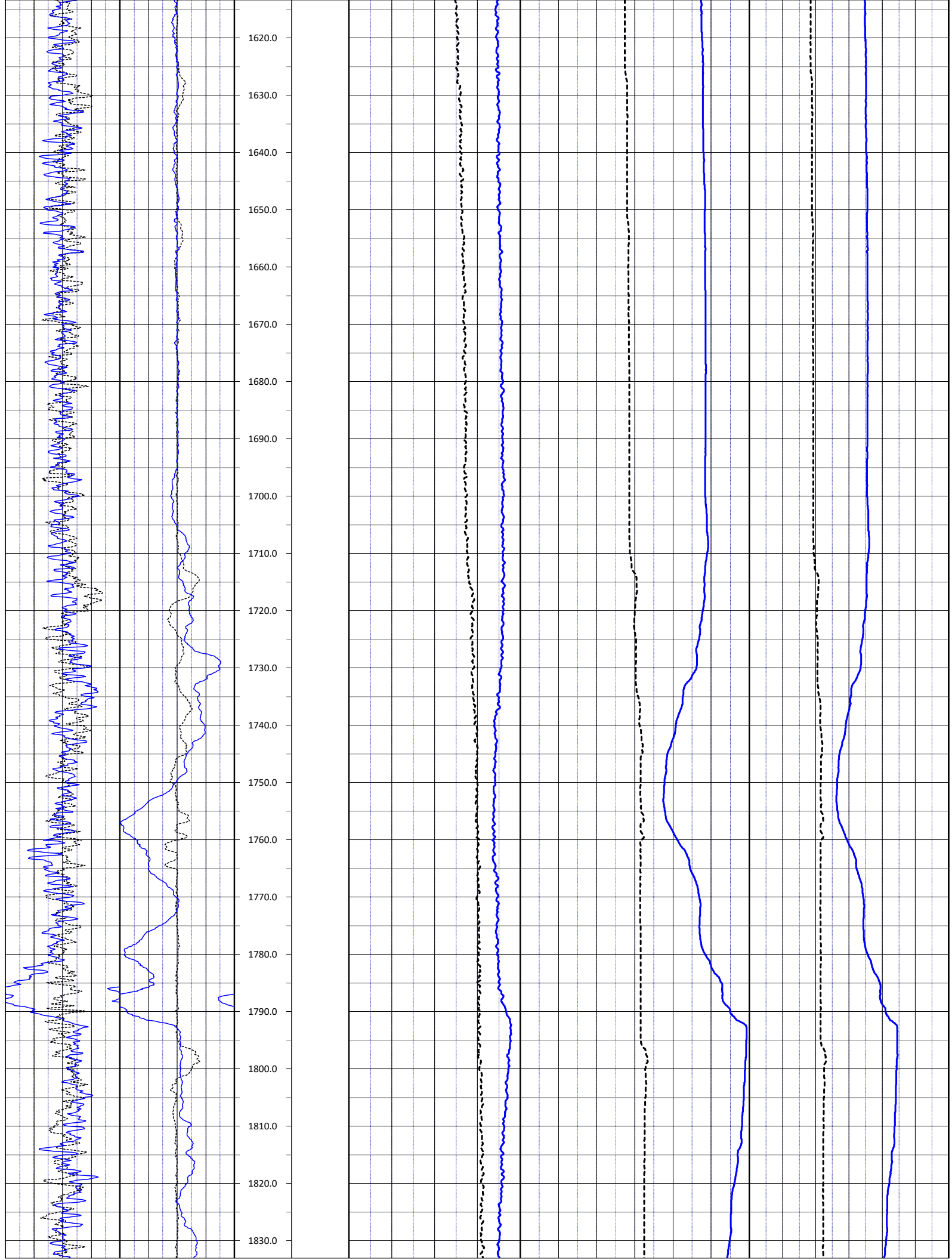
COMP	SWFWMD		
LOC	CROOKED LAKE SITE		
FLD	CROOKED LAKE		
CNTY	POLK		
STAT	FL		
PROV	FL		
CTRY	USA		
LATI		X	
LONG		Y	
GDAT	WGS84	H DAT	
SEC		ELEV	
TWP		V DAT	
RGE			
PERMANENT DATUM:			ALL SERVICES: CALIPER NATURAL GAMMA DUAL INDUCTION ELECTRIC FLUID CONDUCTIVITY FLUID TEMPERATURE SAMPLES VIDEO
LOG MEASURED FROM: GROUND SURFACE			
DRILLING MEASURED FROM:			
DATE	19 Jun 17	TYPE FLUID IN HOLE	WATER
RUN No	1	LOGGING SPEED (FT/MIN)	30
TYPE LOG	FLUID COND & TEMP	TROLLING DIRECTION	BOTH
		PUMPING RATE (GPM)	29
DEPTH-DRILLER	2080		
DEPTH-LOGGER	2079		
DRILLER	HUSS DRILLING		
RECORDED BY	RMB		
SRVC	RMBAKER LLC	API	N/A
WITNESSED BY	B. STORMONT	LIC	N/A
RUN BOREHOLE RECORD			
NO.	BIT	FROM	TO
1	3.8	1200	2080
		SIZE	MAT.
		4	STEEL
		FROM	TO
			0
			1200

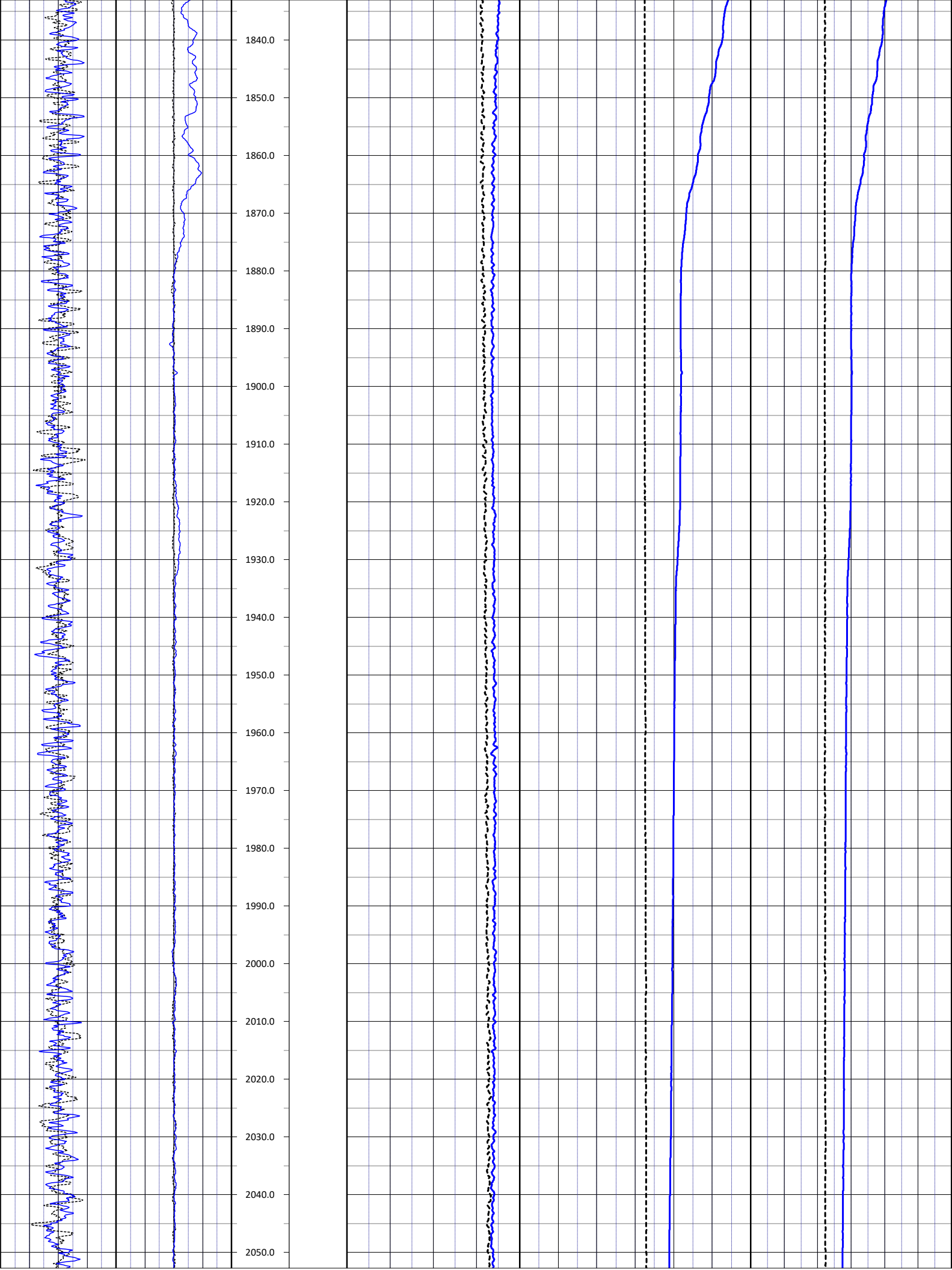
WATER QUALITY LOG CODES					
static fluid temperature	TEU	dynamic fluid conductivity	FLCP	caliper	CAL
dynamic fluid temperature	TEP	static differential cond.	DCOU	repeat designation	R
static differential temperature	DTEU	dynamic differential cond.	DCOP	natural gamma	GAMM
dynamic differential temp.	DTEP	static specific conductance	C25U		
static fluid conductivity	FLCU	dynamic specific conductance	C25P		

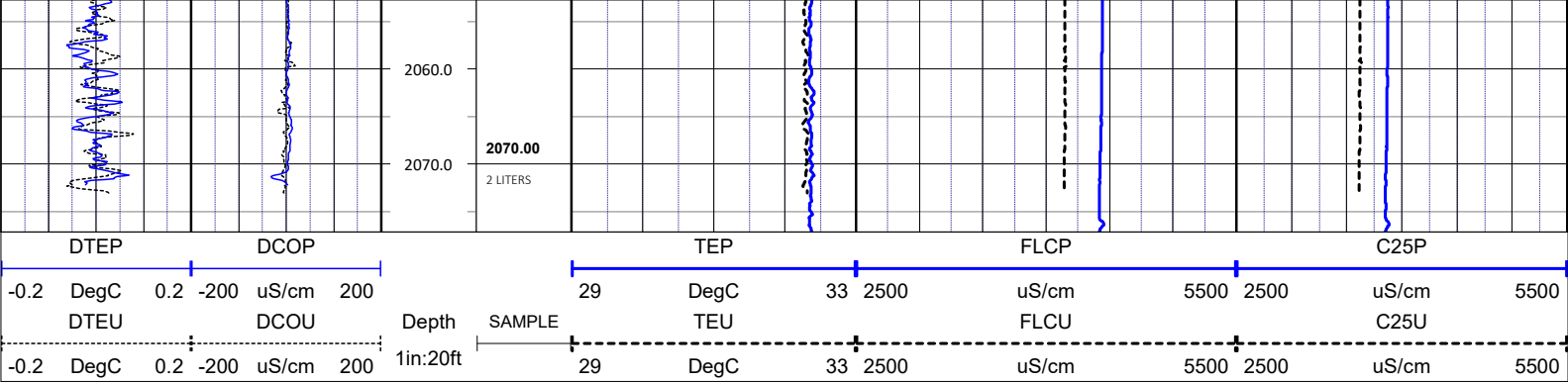












NOTES:
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Florida Licensed Geology Business GB 458

END OF LOG



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LOG STAGE 2290-3000

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www.rmbaker.com

HEADER NOTES:
LOGGING OCCURRED ONLY TO A DEPTH OF 3000 FEET; LOGGED IN DYNAMIC MODE

COMP	SWFWMD
LOC	CROOKED LAKE SITE
FLD	CROOKED LAKE
CNTY	POLK
STAT	FL
PROV	FL
CTRY	USA

LATI	X	ALL SERVICES:
LONG	Y	CALIPER
GDAT	WGS84	NATURAL GAMMA
SEC		DUAL INDUCTION
TWP		ELECTRIC
RGE		FLUID RESISTIVITY
		FLUID CONDUCTIVITY
		SONIC
		VIDEO

PERMANENT DATUM:

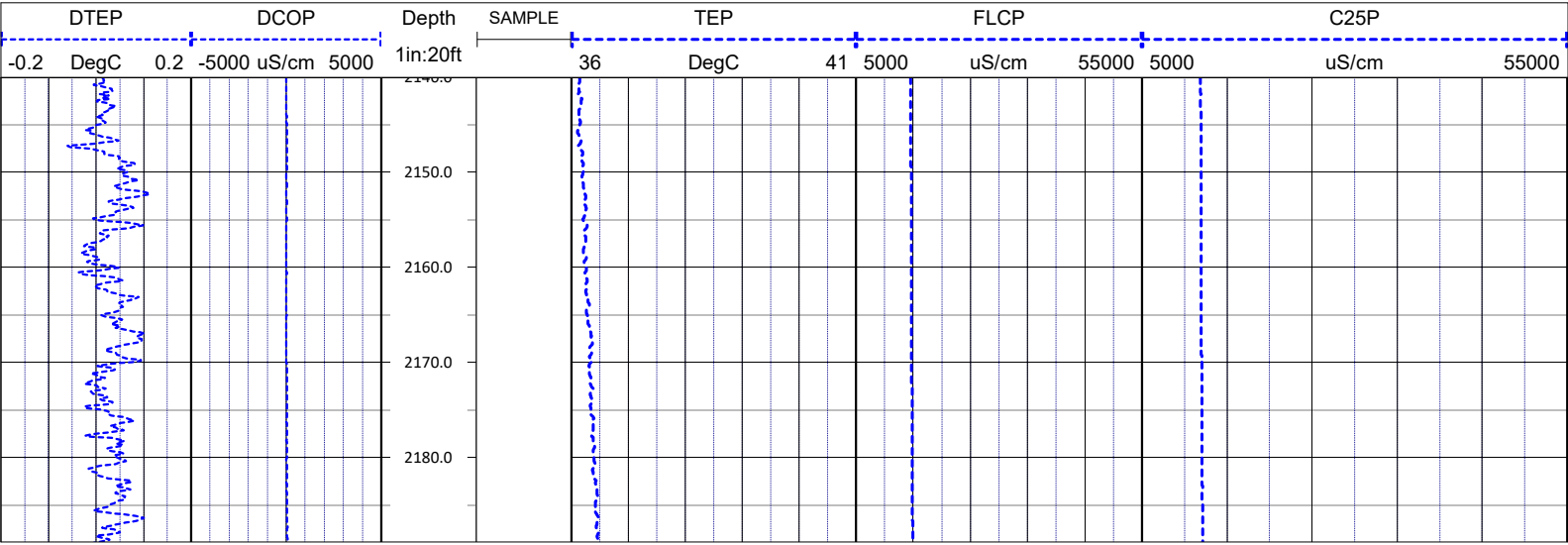
LOG MEASURED FROM: GROUND SURFACE

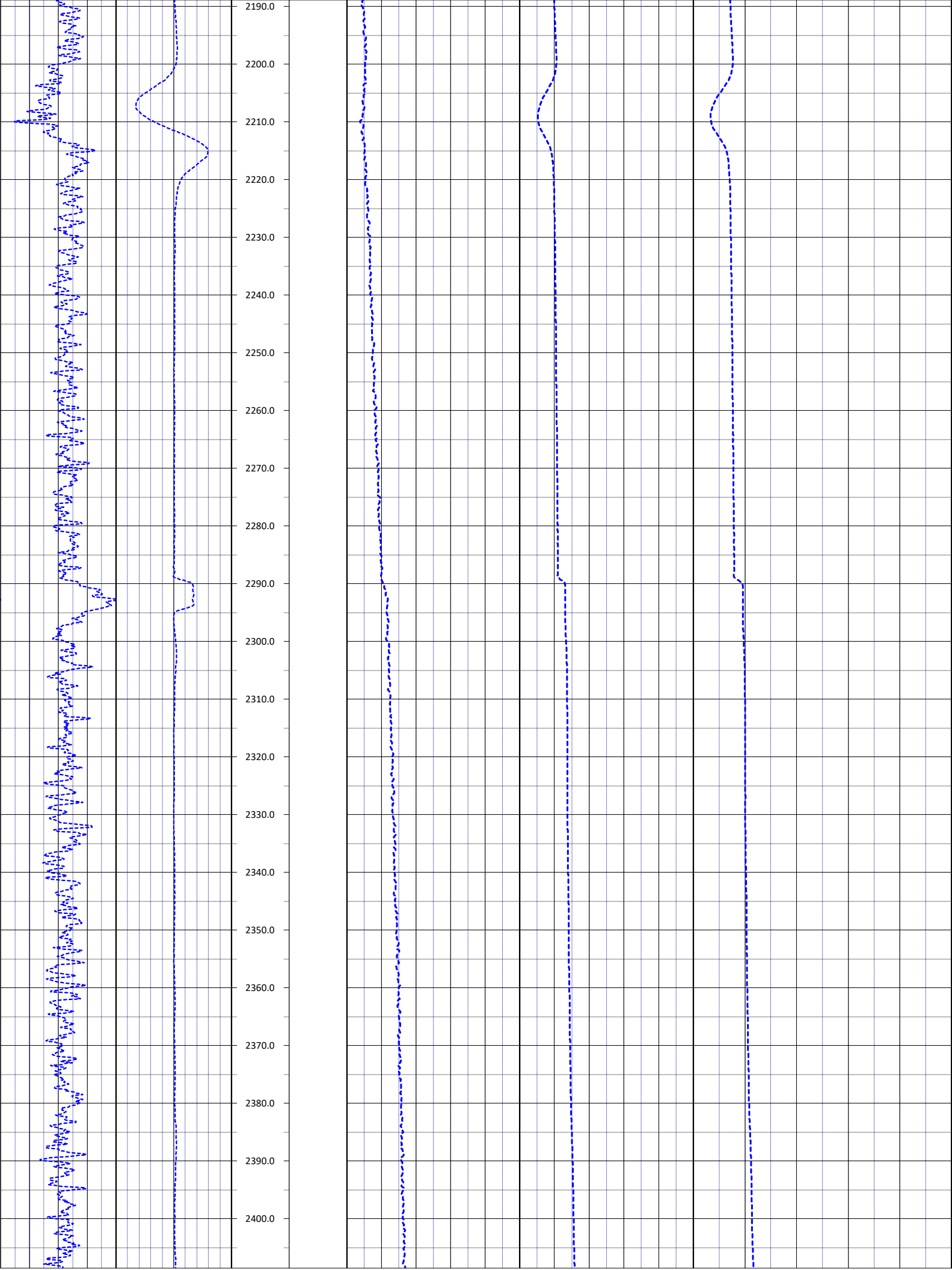
DRILLING MEASURED FROM:

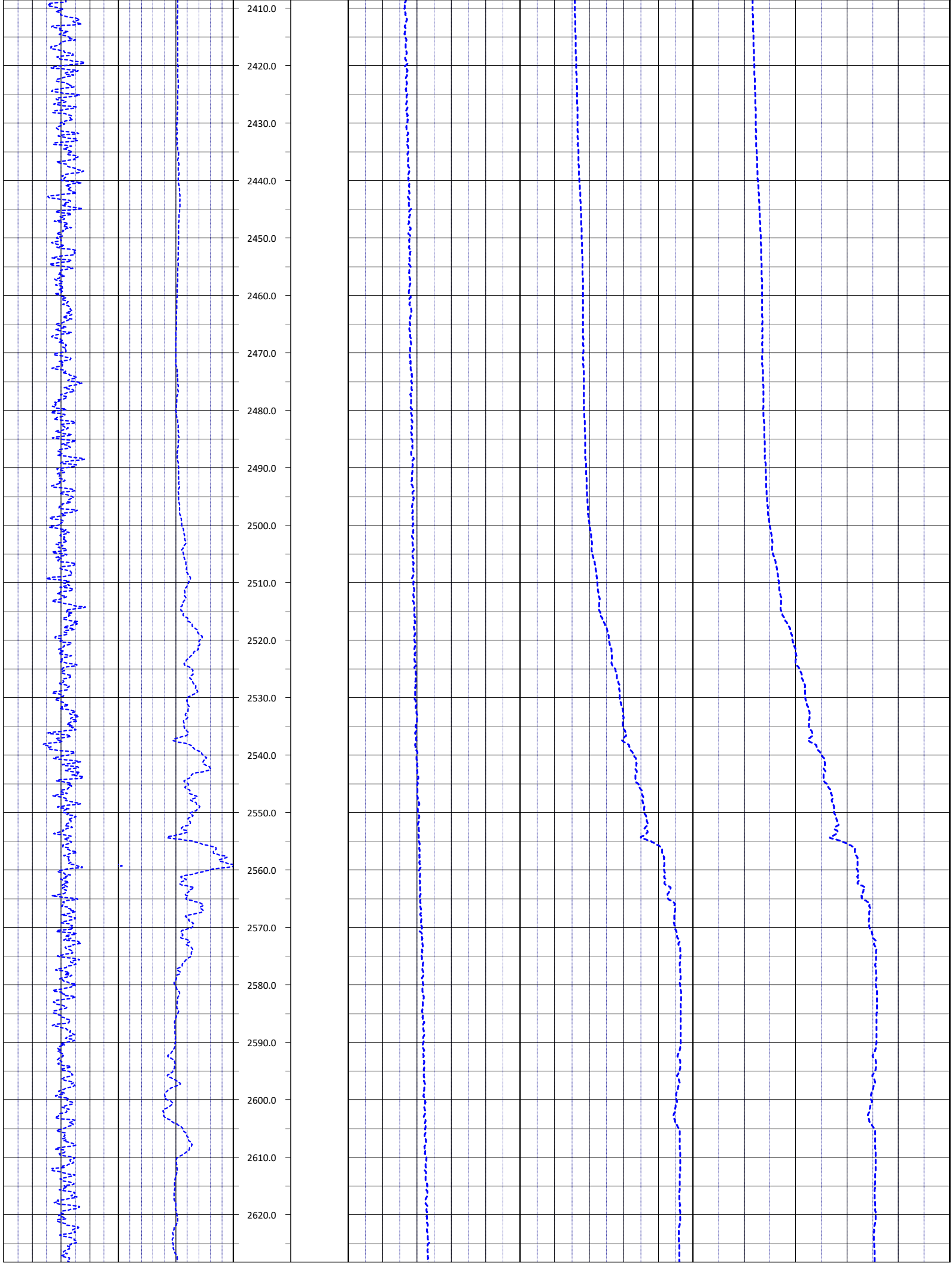
DATE	28 Nov 17	TYPE FLUID IN HOLE	WATER
RUN No	1	LOGGING SPEED (FT/MIN)	35
TYPE LOG	FLUID COND & TEMP	TROLLING DIRECTION	DOWN
		PUMPING RATE (GPM)	30
DEPTH-DRILLER	3200		
DEPTH-LOGGER	3200		
DRILLER	HUSS DRILLING		
RECORDED BY	RMB		
SRVC	RMBAKER LLC	API	N/A
WITNESSED BY	B. STORMONT	LIC	N/A

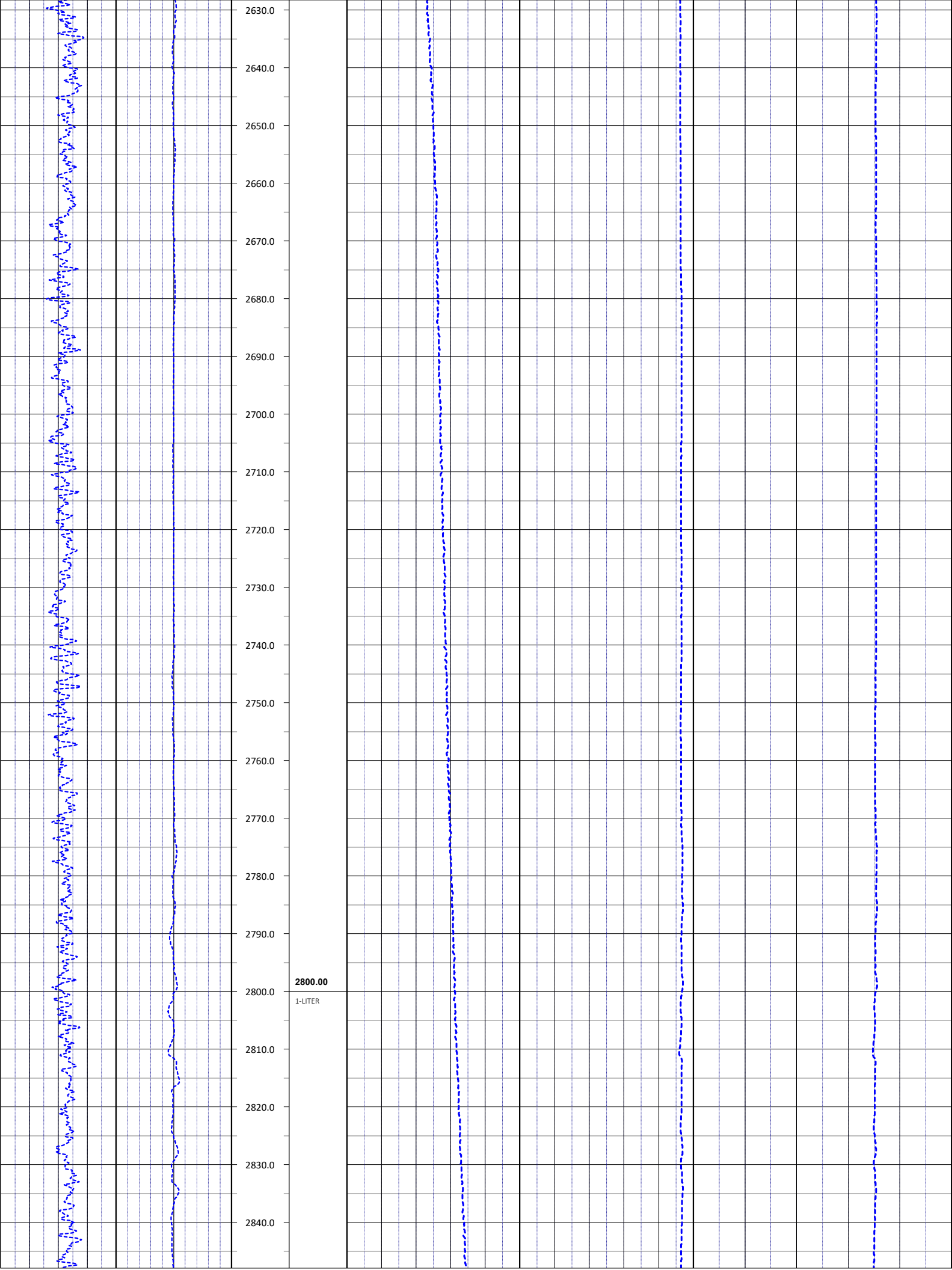
BOREHOLE RECORD				CASING RECORD			
RUN NO.	BIT	FROM	TO	SIZE	MAT.	FROM	TO
1	3.9	2290	3200	4	STEEL	0	2290
				5	STEEL	0	1780
				6	STEEL	0	1200

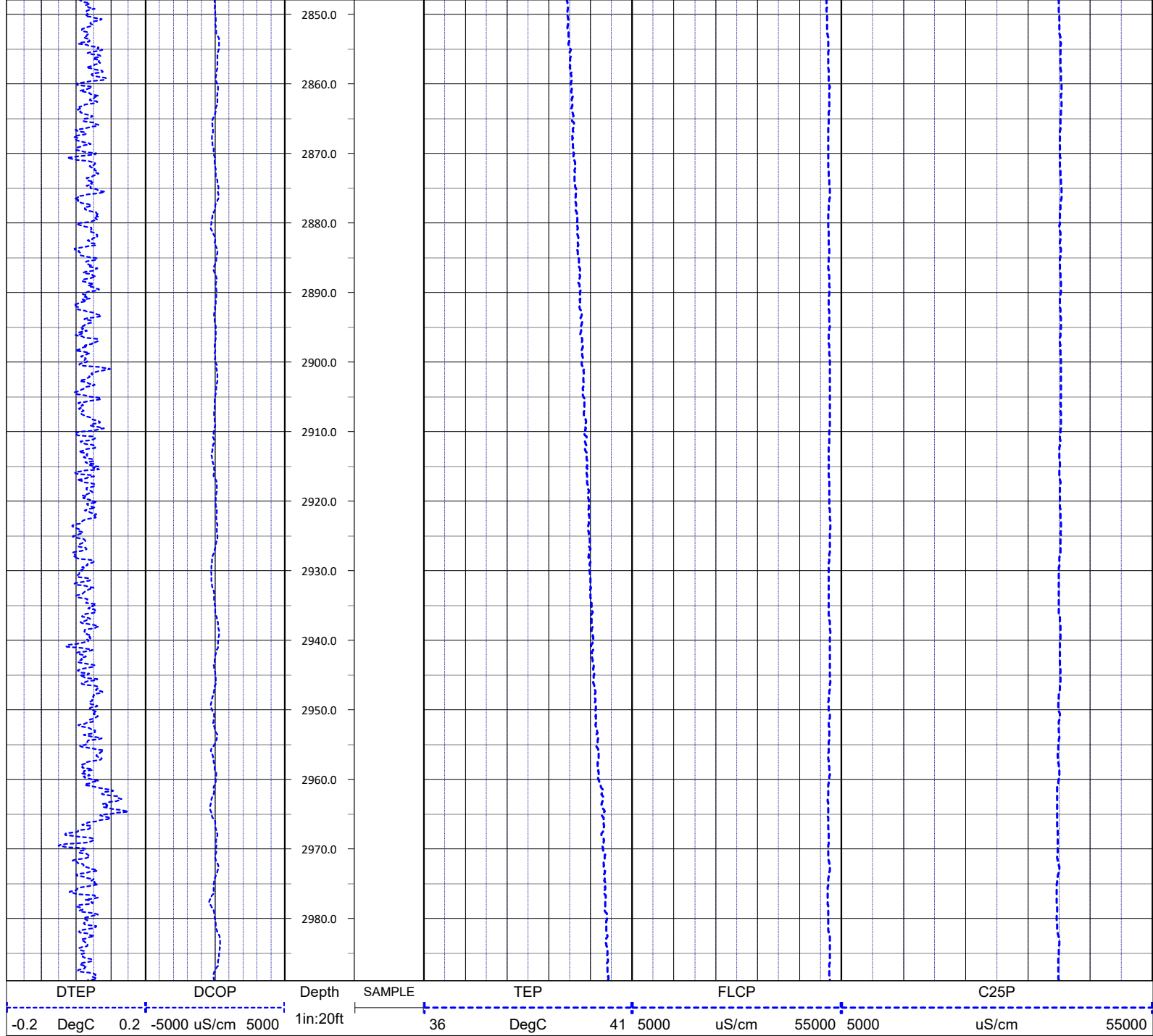
WATER QUALITY LOG CODES					
static fluid temperature	TEU	dynamic fluid conductivity	FLCP	caliper	CAL
dynamic fluid temperature	TEP	static differential cond.	DCOU	repeat designation	R
static differential temperature	DTEU	dynamic differential cond.	DCOP	natural gamma	GAMM
dynamic differential temp.	DTEP	static specific conductance	C25U		
static fluid conductivity	FLCU	dynamic specific conductance	C25P		







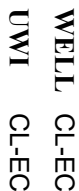




NOTES:
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END OF LOG



LOG STAGE 1200-2080 FT

HEADER NOTES:
THE DUAL INDUCTION ILM CURVE WAS VERY SENSITIVE TO THE RESISTIVE FORMATION. WE DIMINISHED THIS CURVE WITH A THIN LINE SETTING TO MORE EASILY OBSERVE THE DEEPER ILD CURVE.

OMP	SWFWMD
OOC	CROOKED LAKE SITE
LD	CROOKED LAKE
NTY	POLK
FAT	FL
ROV	FL
TRY	USA

ALL SERVICES:					
CALPER					
NATURAL GAMMA					
DUAL INDUCTION					
ELECTRIC					
FLUID CONDUCTIVITY					
FLUID TEMPERATURE					
SAMPLES					
VIDEO					

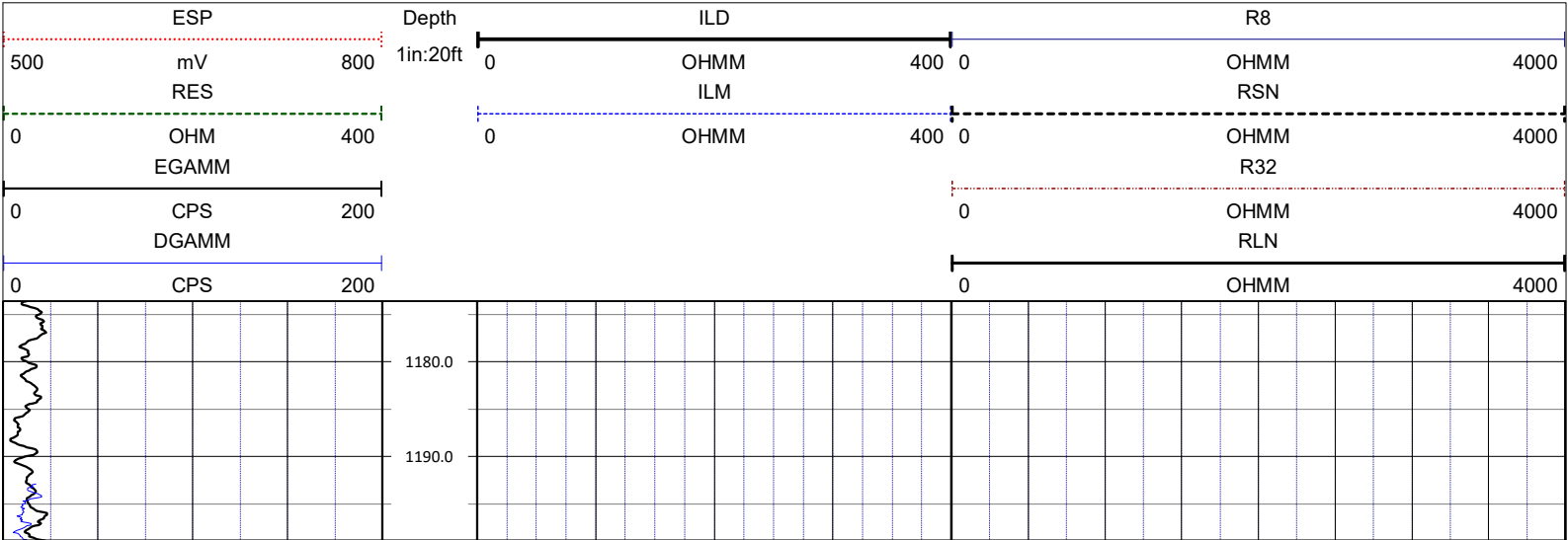
GROUND SURFACE

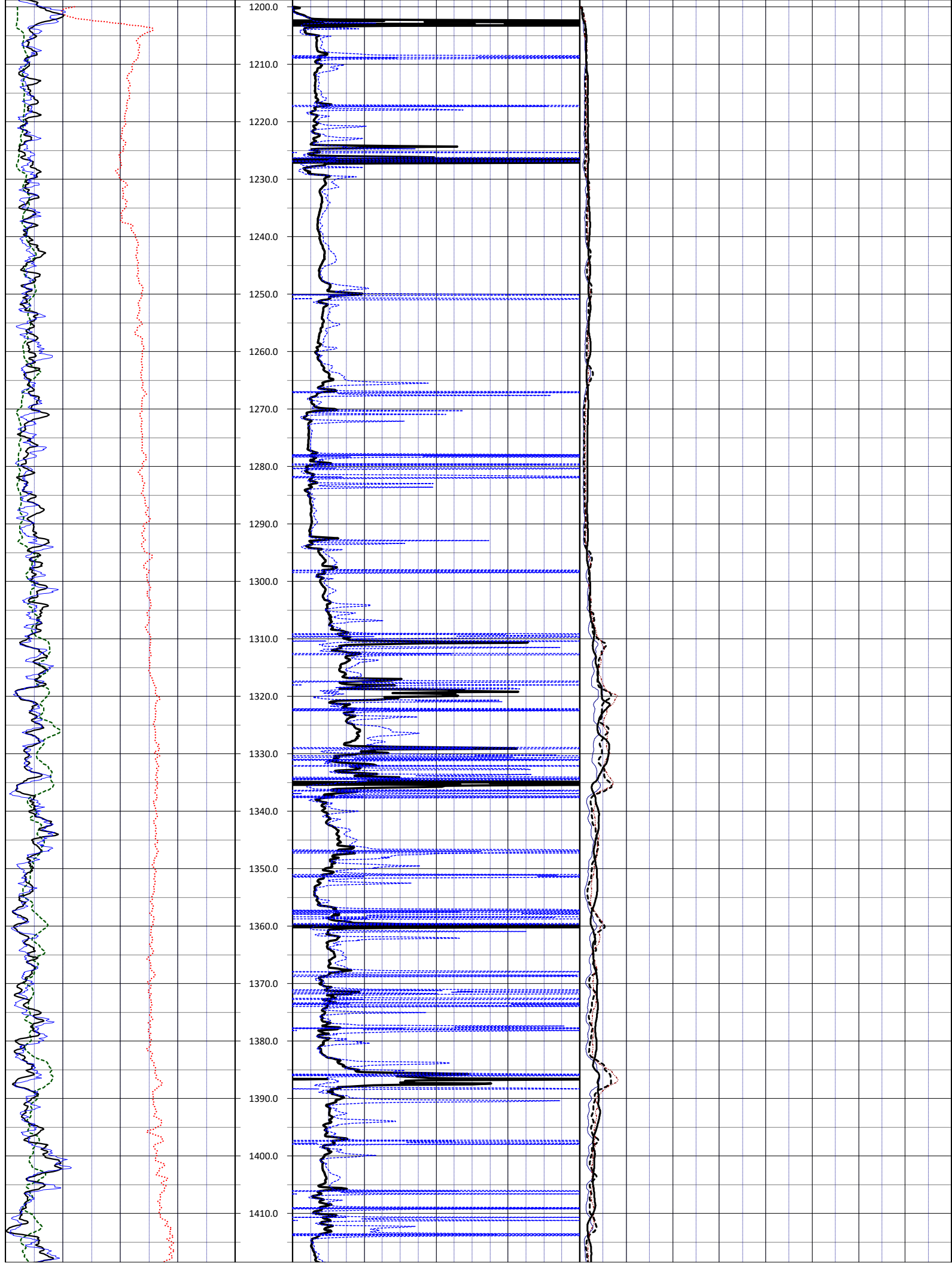
ILLING MEASURED FROM:

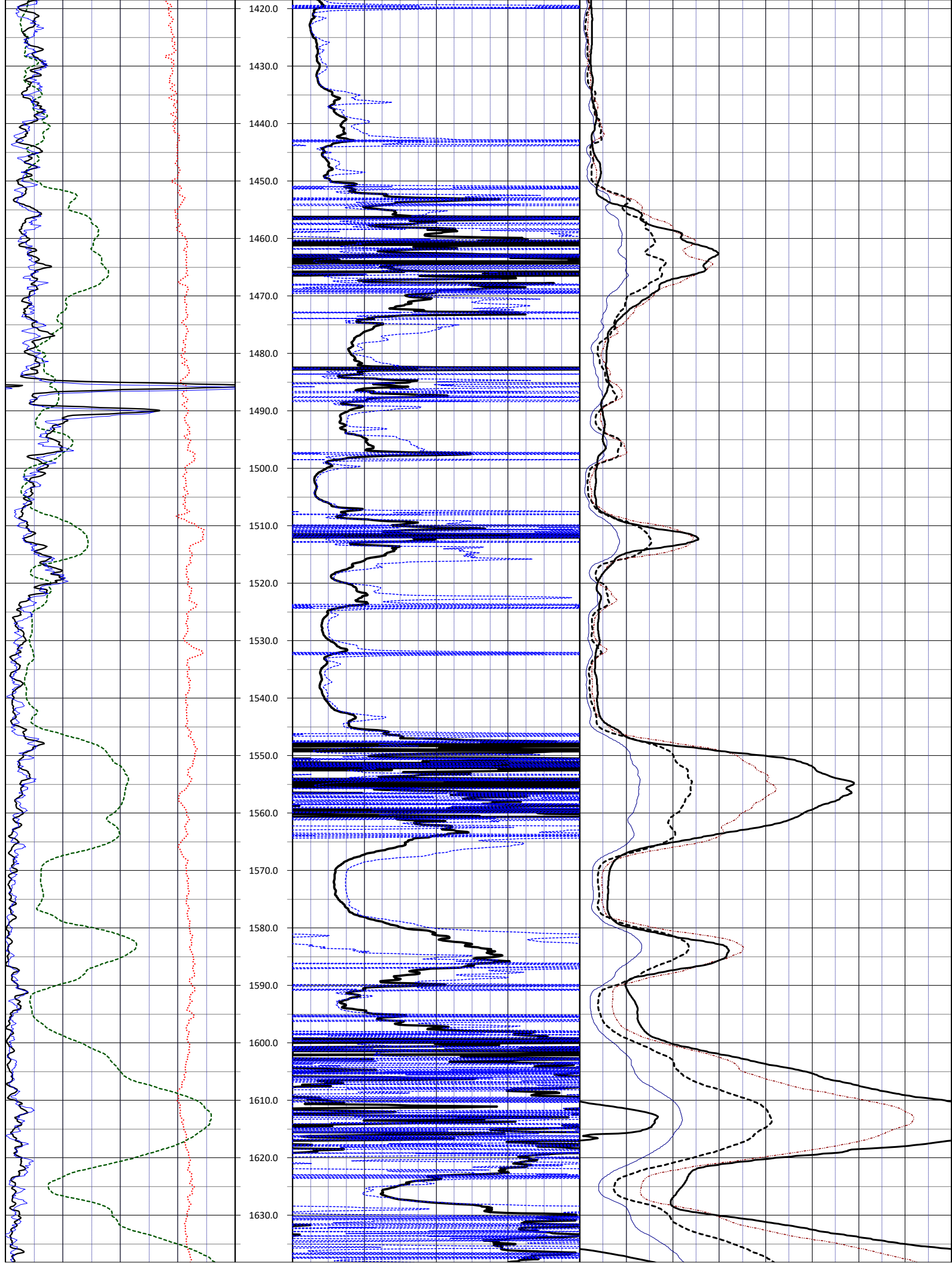
DATE	16 Jun 17	TYPE FLUID IN HOLE	WATER
IN No	1	LOGGING SPEED (FT/MIN)	35
PE LOG	ELECTRIC+DUIN	TROLLING DIRECTION	UP
		PUMPING RATE (GPM)	N/A
PTH-DRILLER	2080		
PTH-LOGGER	2079		
ILLER	HUSS DRILLING		
CORDED BY	RMB		
V/C	RIMBAKER LLC	API	N/A
FINISHED BY	B. STORMONT	LIC	N/A

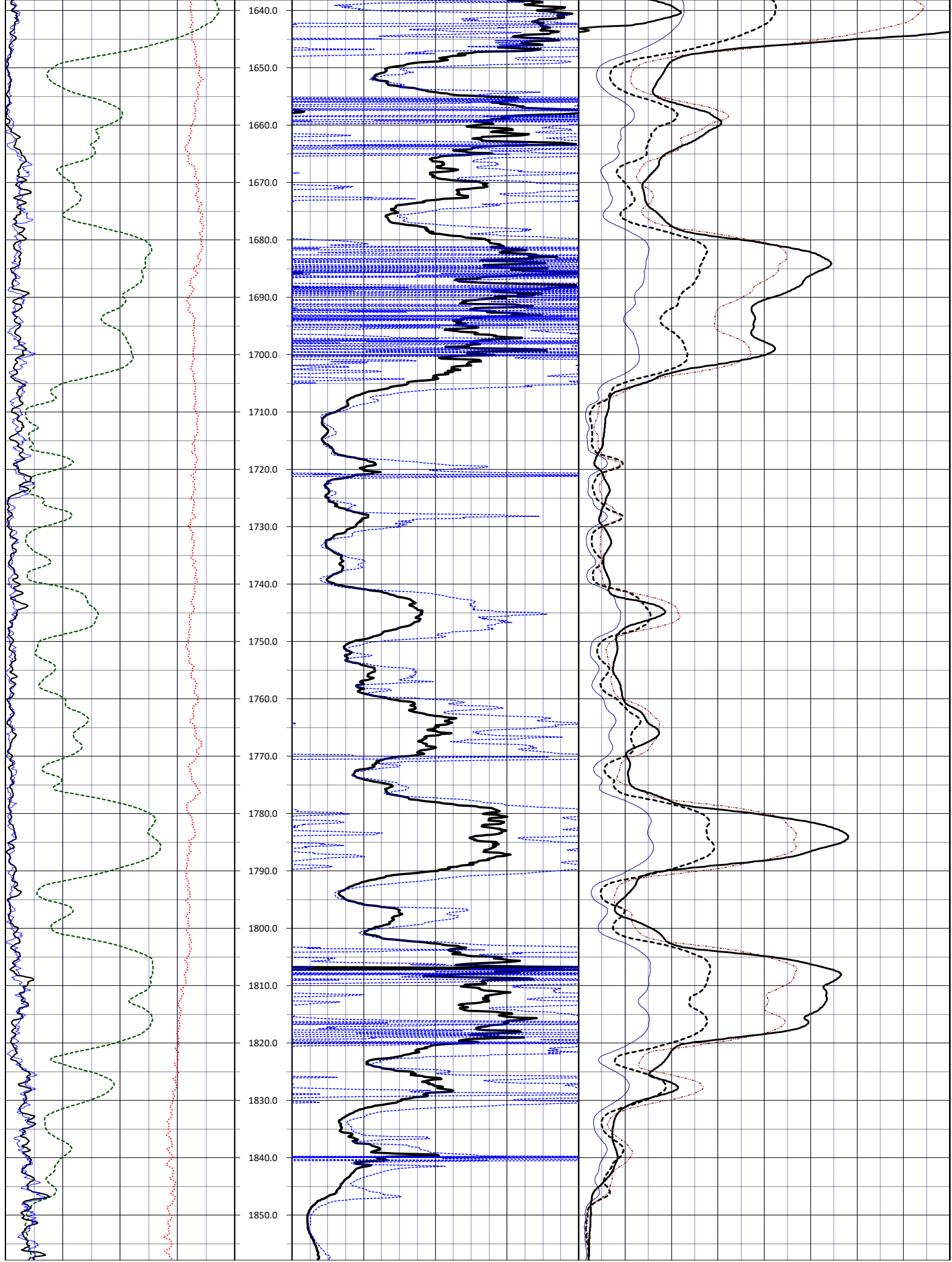
N	BOREHOLE RECORD	CASING RECORD
---	-----------------	---------------

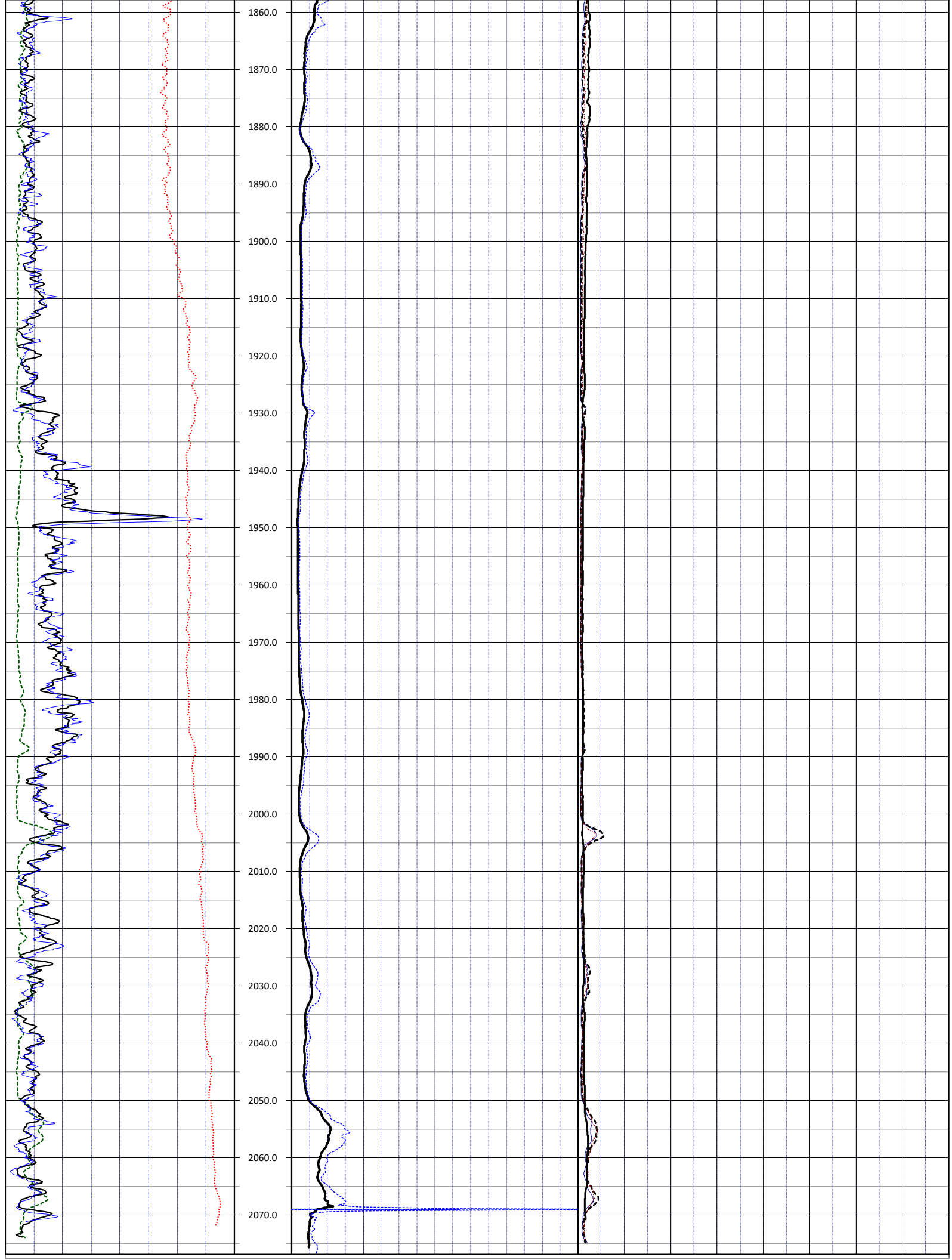
	FROM	TO	SIZE	MAT.	FROM	TO
3.8	1200	2080	4	STEEL	0	1200

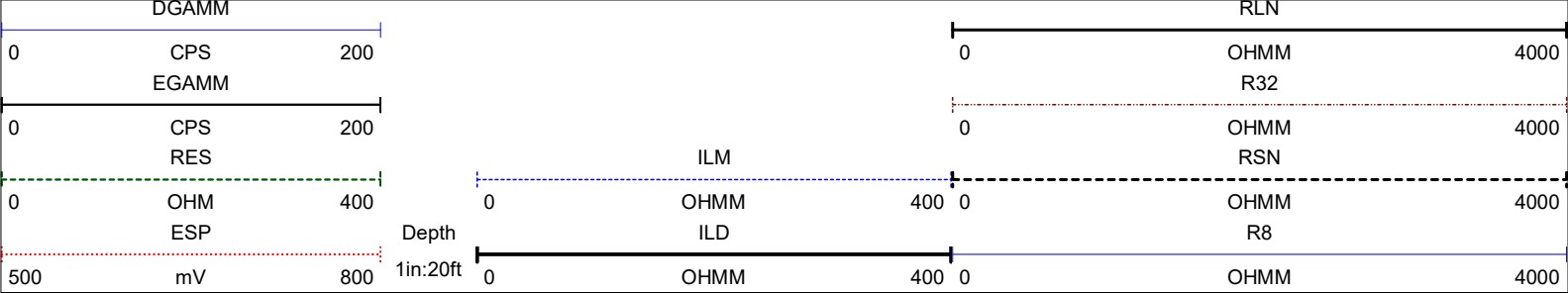
[illegible]











NOTES:
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END OF LOG



RMBAKER LLC
Geology and Geophysics

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UWI CL-EC

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LOG STAGE 2290-3000

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www.rmbaker.com

HEADER NOTES:
LOGGING OCCURRED ONLY TO A DEPTH OF 3000 FEET.

COMP SWFWMD
LOC CROOKED LAKE SITE
FLD CROOKED LAKE
CNTY POLK
STAT FL
PROV FL
CTRY USA

LATI		X		ALL SERVICES: CALIPER NATURAL GAMMA DUAL INDUCTION ELECTRIC FLUID RESISTIVITY FLUID CONDUCTIVITY SONIC VIDEO
LONG		Y		
GDAT	WGS84	H DAT		
SEC		ELEV		
TWP		V DAT		
RGE				

PERMANENT DATUM:

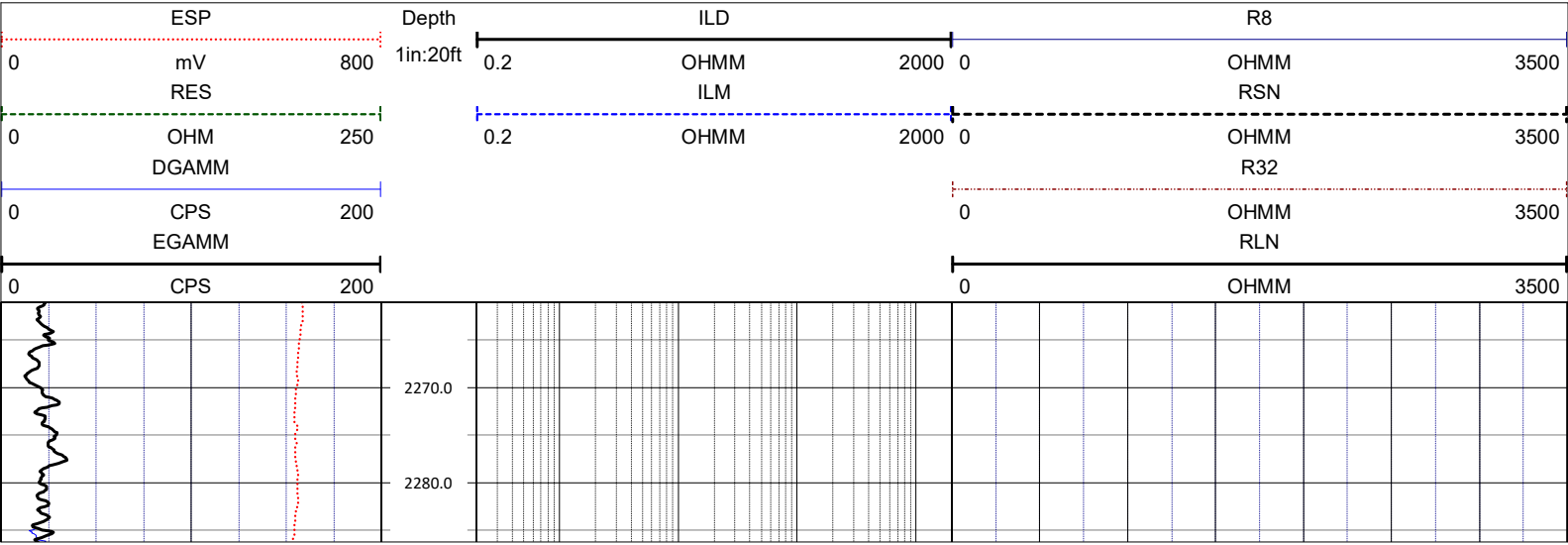
LOG MEASURED FROM: GROUND SURFACE

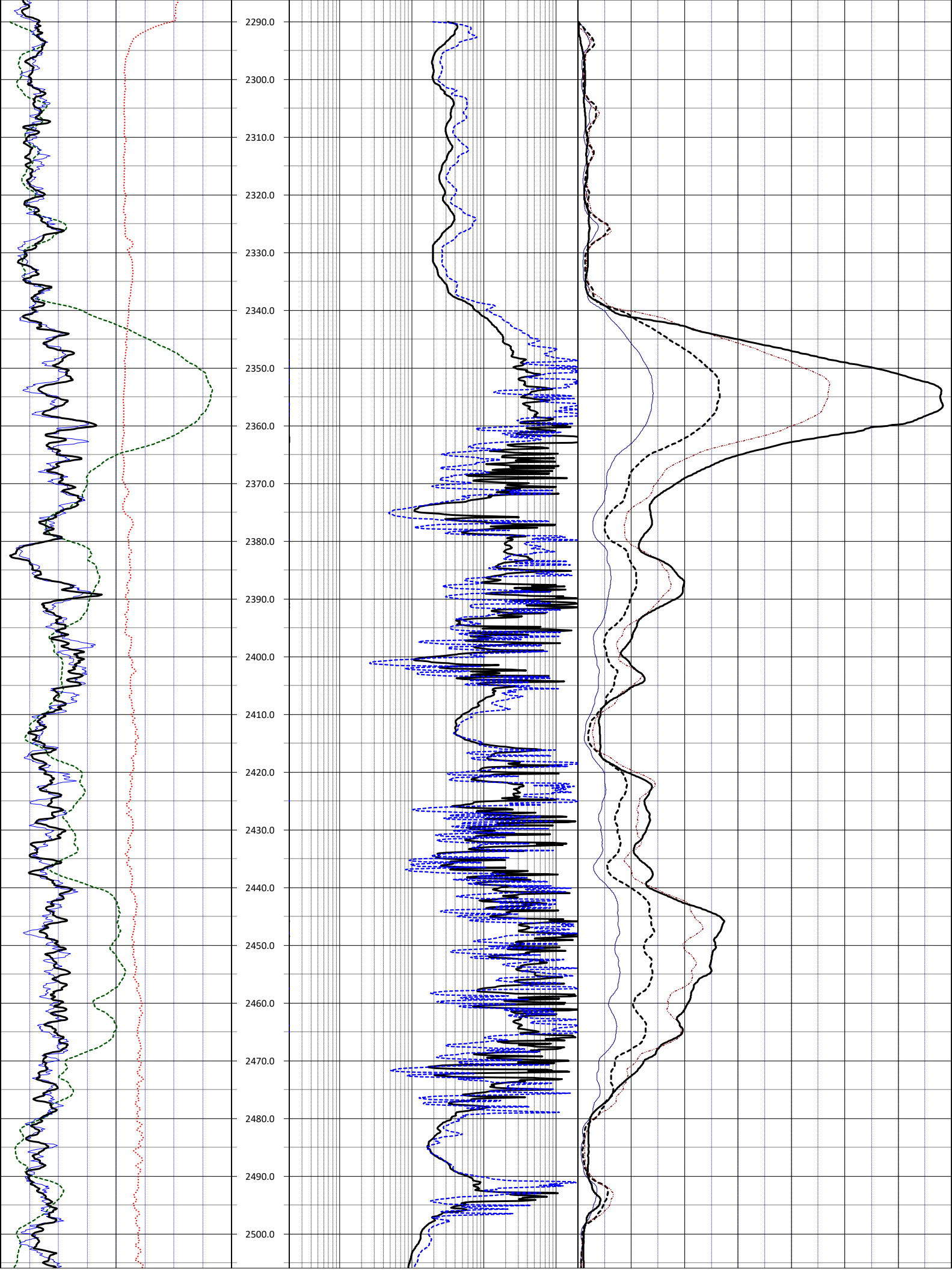
DRILLING MEASURED FROM:

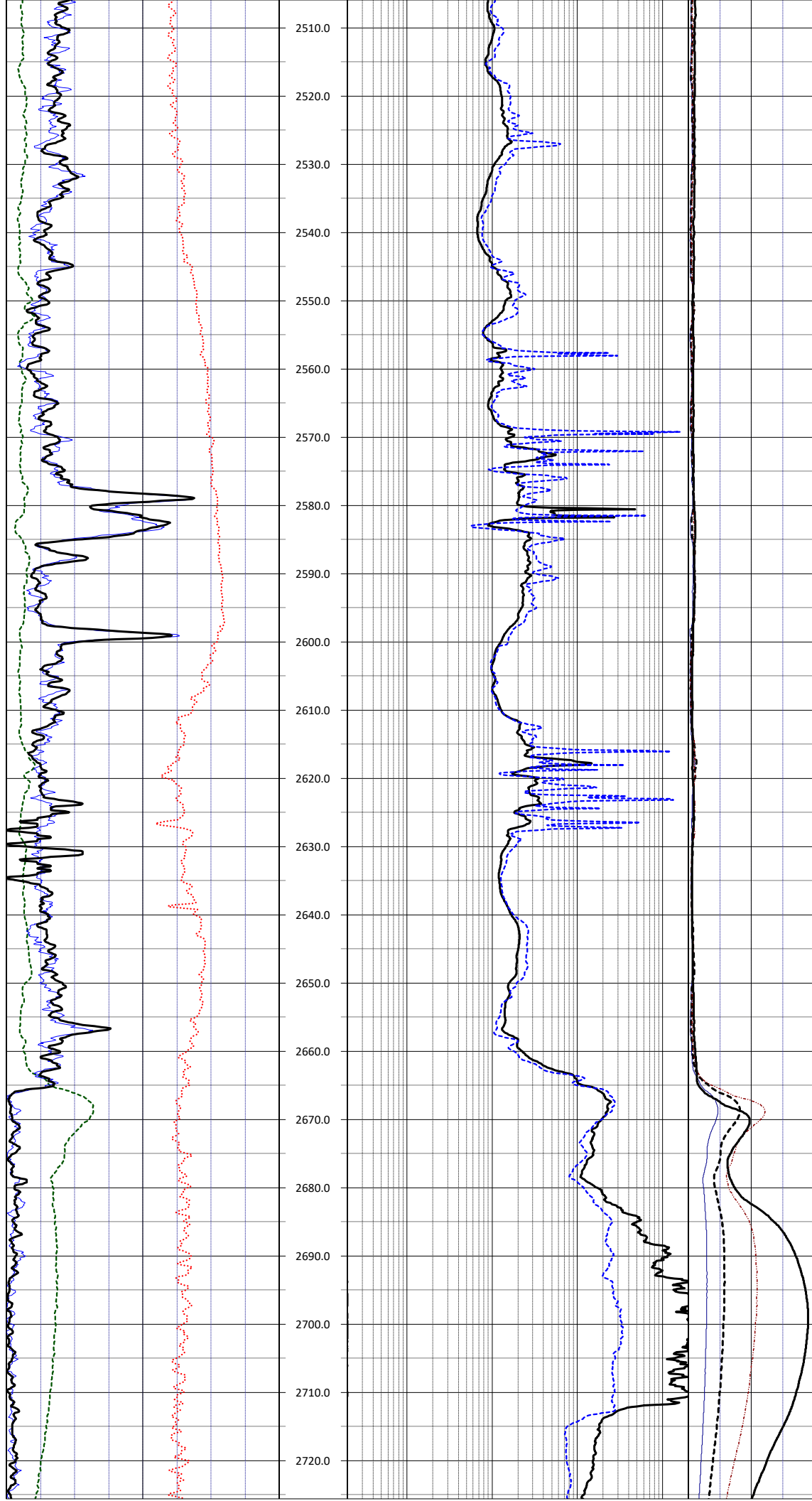
DATE	29 Nov 17	TYPE FLUID IN HOLE	WATER
RUN No	1	LOGGING SPEED (FT/MIN)	30
TYPE LOG	DUIN+ELECTRIC	TROLLING DIRECTION	UP
		PUMPING RATE (GPM)	N/A
DEPTH-DRILLER	3200		
DEPTH-LOGGER	3200		
DRILLER	HUSS DRILLING		
RECORDED BY	RMB		
SRVC	RMBAKER LLC	API	N/A
WITNESSED BY	B. STORMONT	LIC	N/A

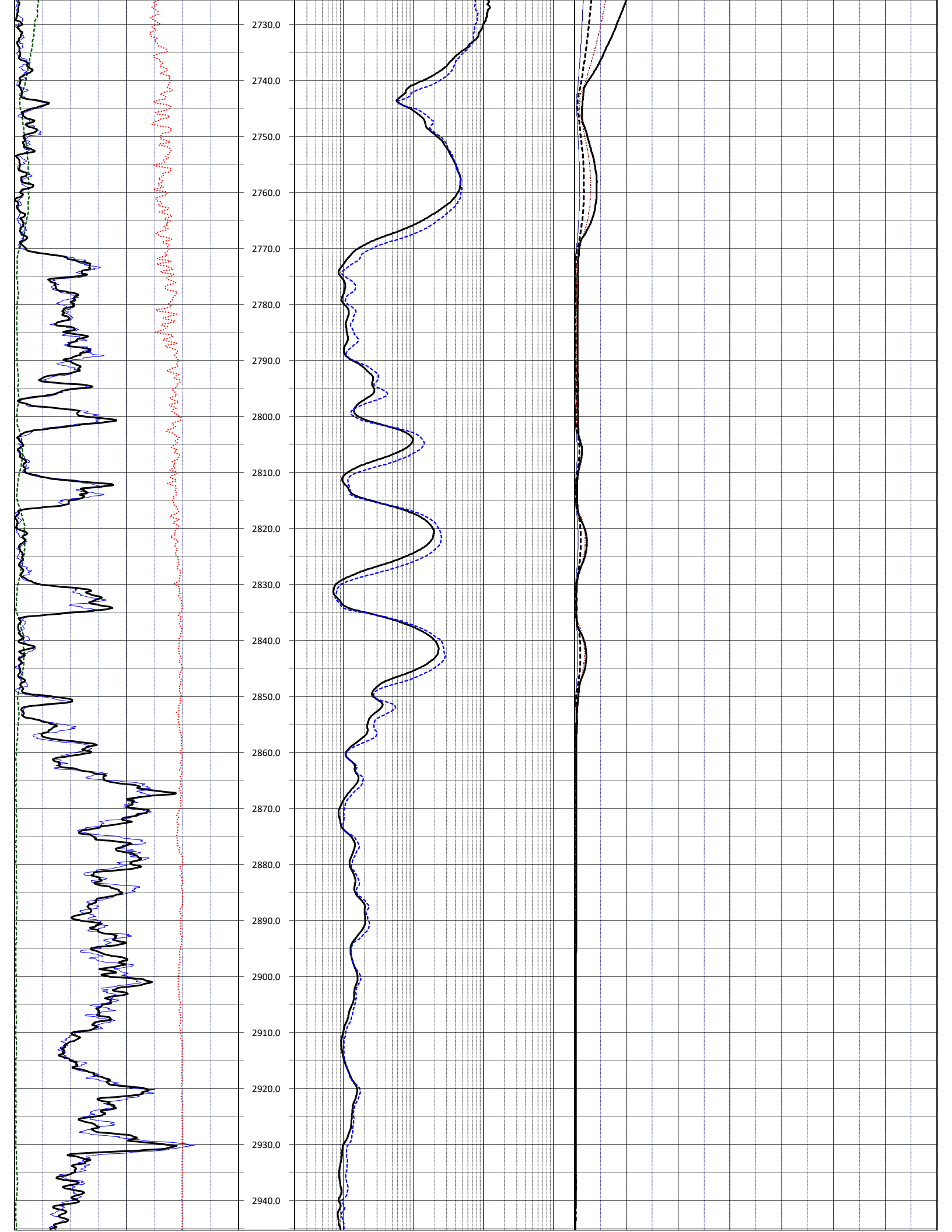
BOREHOLE RECORD				CASING RECORD			
RUN NO.	BIT	FROM	TO	SIZE	MAT.	FROM	TO
1	3.9	2290	3200	4	STEEL	0	2290
				5	STEEL	0	1780
				6	STEEL	0	1200

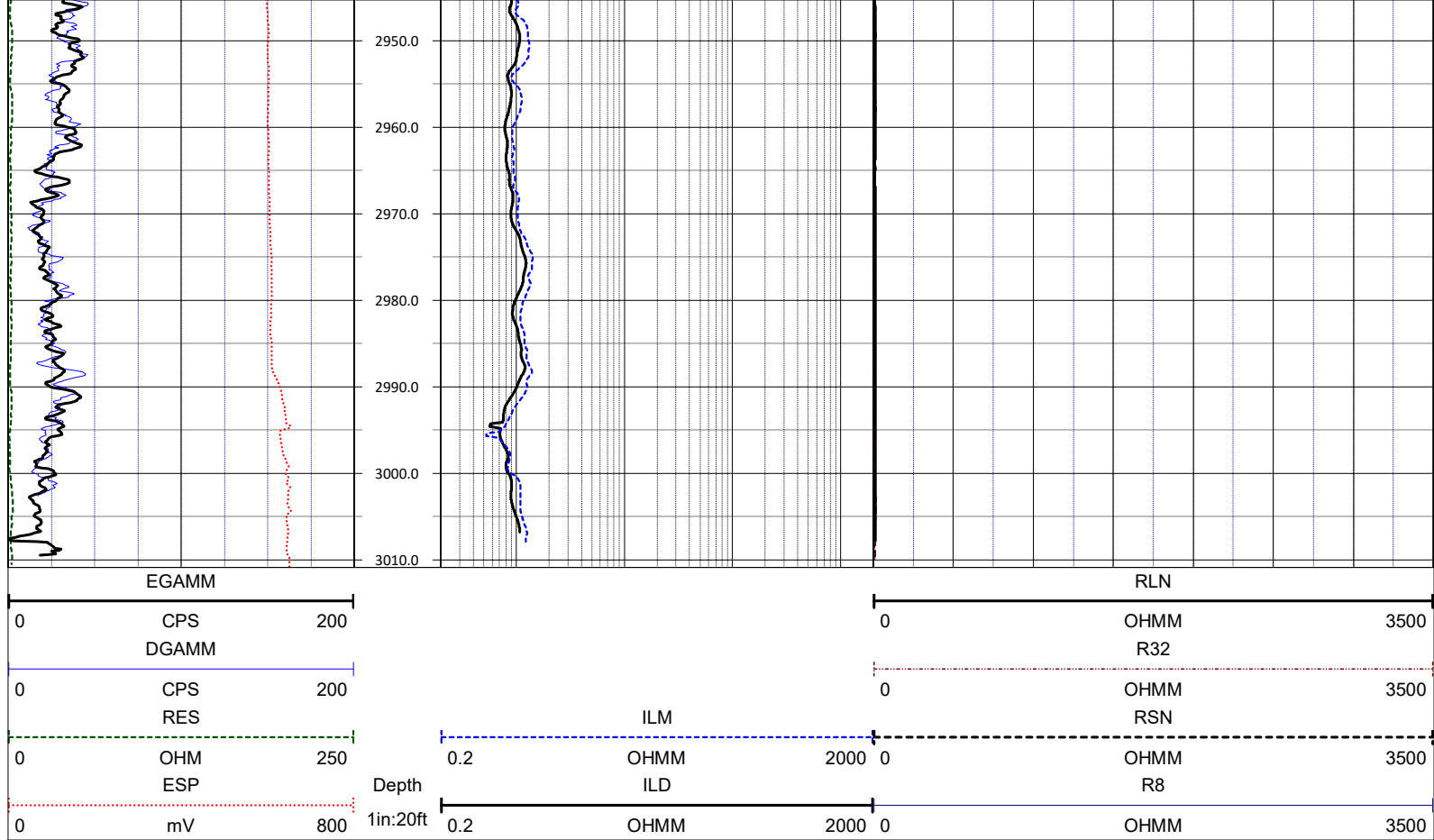
LOG CODES					
3-arm caliper	CAL	long normal resistivity	RLN	deep induction conductivity	IDC
natural gamma (CPS)	GAMM	8 inch resistivity	R8	shallow induction conductivity	ISC
spontaneous potential	ESP	32 inch resistivity	R32	sonic interval velocity	DT
single point resistance	RES	deep induction resistivity	ILD	sonic porosity (RHG method)	SPHI
short normal resistivity	RSN	shallow induction resistivity	ILM	repeat designation	R











NOTES:
While due care has been exercised in the performance of these measurements and observations, in accordance with methodologies utilized by the general practitioner, RMBAKER LLC can make no representations, warranties, or guarantees with respect to latent or concealed conditions that may exist, which may be beyond the detection capabilities of the methodologies used, or that may extend beyond the areas and depths surveyed.
The geophysical well logs show subsurface conditions as they existed at the dates and locations shown, and it is not warranted that they are representative of subsurface conditions at other locations and times. If, at any time, different subsurface conditions from those observed are determined to be present, we must be advised and allowed to review and revise our observations if necessary.

Florida Licensed Geology Business GB 458

END OF LOG



RMBAKER LLC
Geology and Geophysics

WELL CL-EC
UWI CL-EC

8600 Oldbridge Lane
Orlando, FL 32819
mobile ph 407-733-8958

LOG STAGE 2600-3000

rob@rmbaker.com
www.rmbaker.com

HEADER NOTES:
LOGGING OCCURRED ONLY TO A DEPTH OF 3000 FEET.

COMP	SWFWMD
LOC	CROOKED LAKE SITE
FLD	CROOKED LAKE
CNTY	POLK
STAT	FL
PROV	FL
CTRY	USA

LATI	X	ALL SERVICES:
LONG	Y	CALIPER
GDAT	H DAT	NATURAL GAMMA
SEC	ELEV	DUAL INDUCTION
TWP	V DAT	ELECTRIC
RGE		FLUID RESISTIVITY
		FLUID CONDUCTIVITY
		VIDEO

PERMANENT DATUM:

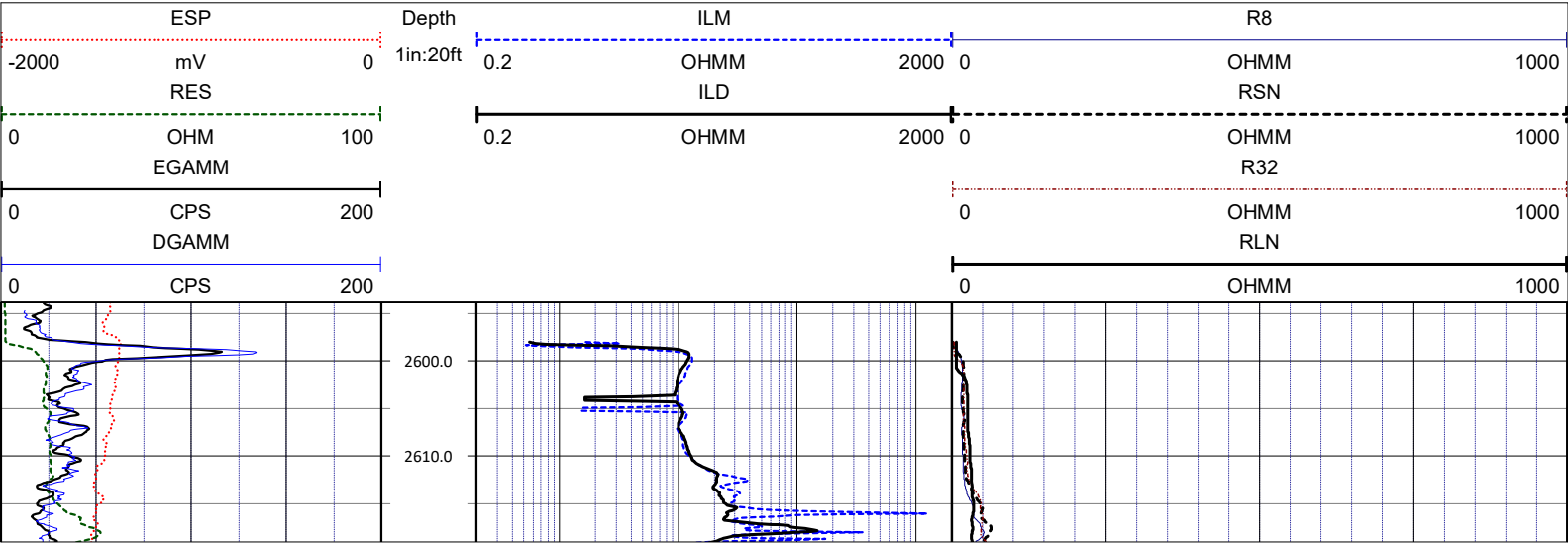
LOG MEASURED FROM: GROUND SURFACE

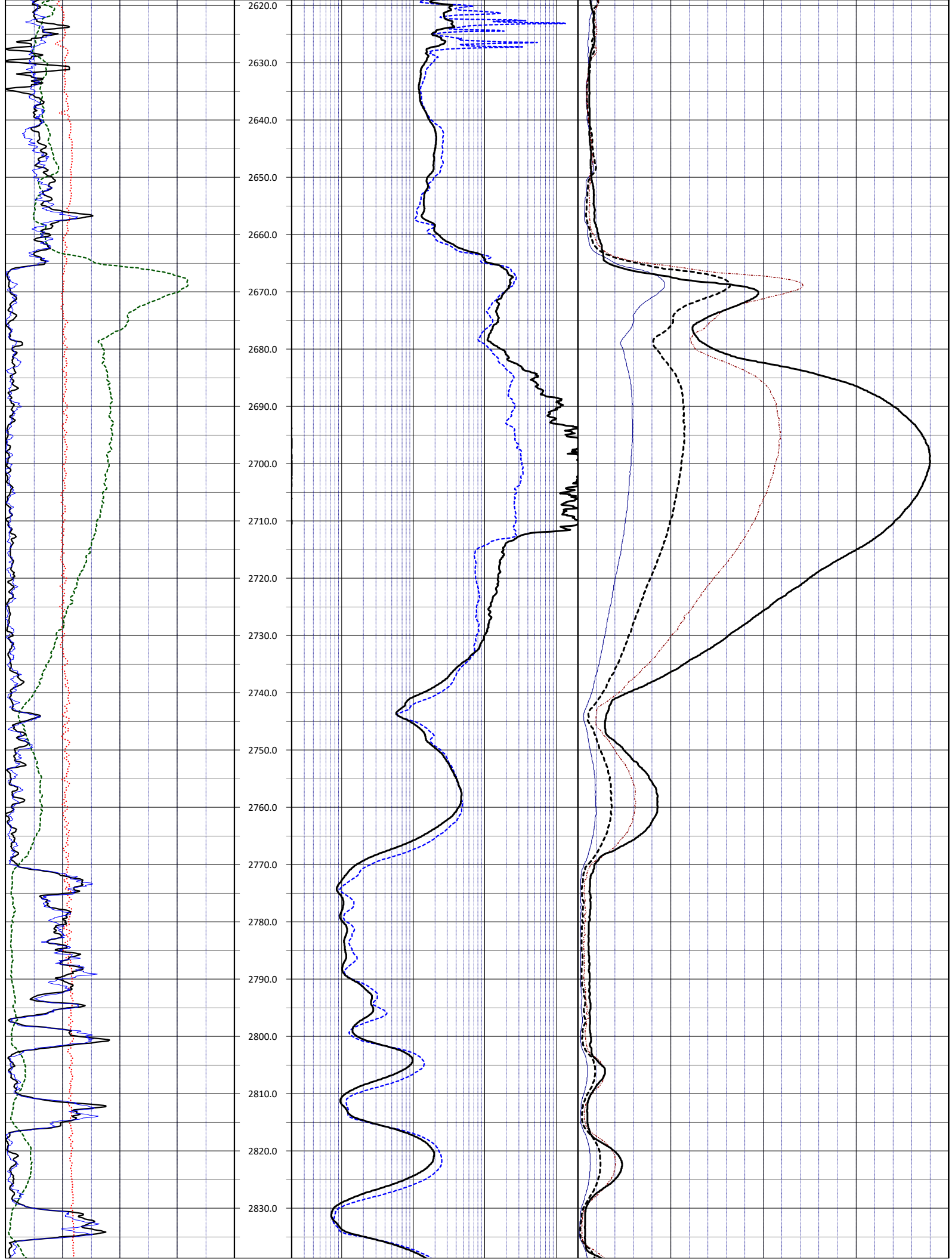
DRILLING MEASURED FROM:

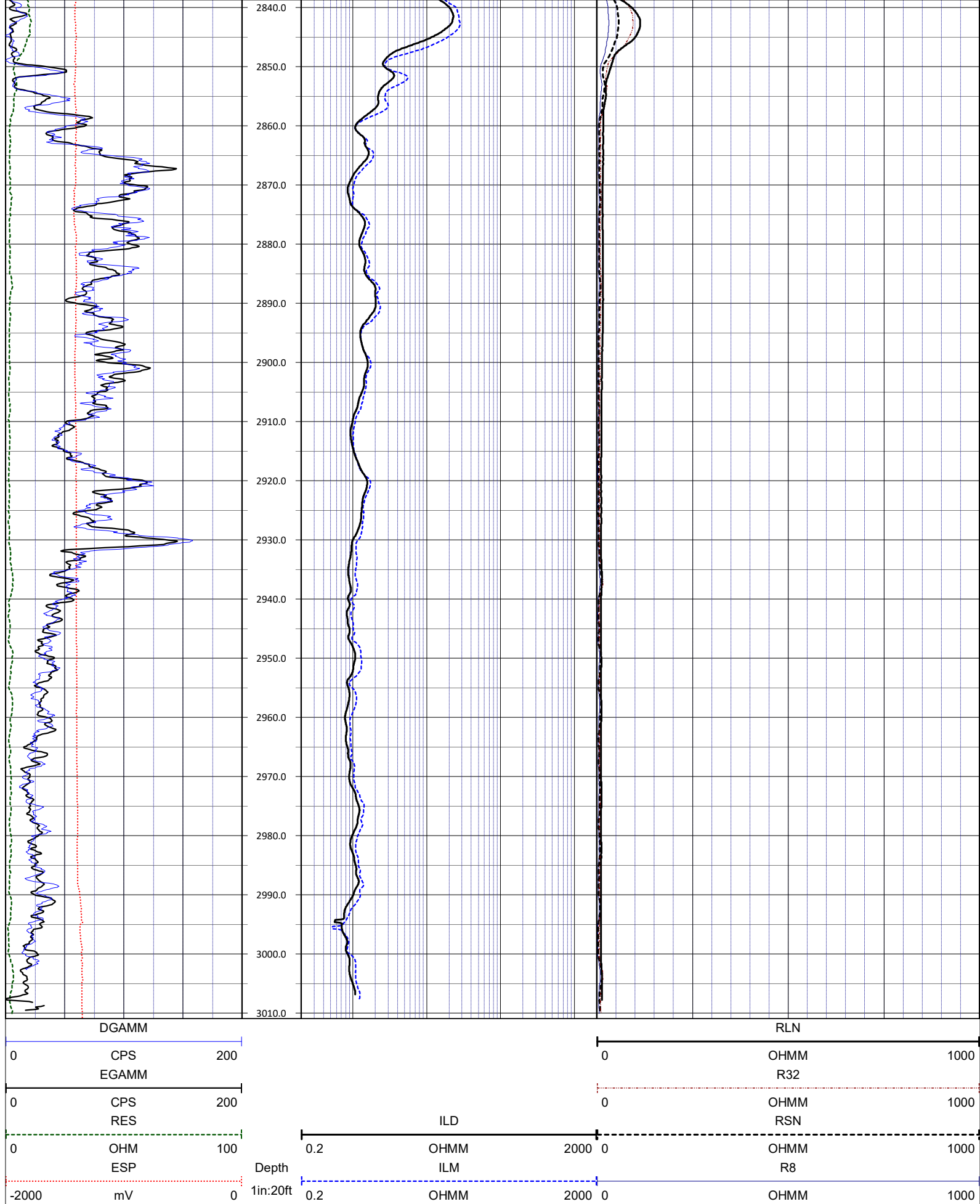
DATE	15-16 Nov 17	TYPE FLUID IN HOLE	WATER
RUN No	1	LOGGING SPEED (FT/MIN)	30
TYPE LOG	DUIN+ELECTRIC	TROLLING DIRECTION	UP
		PUMPING RATE (GPM)	N/A
DEPTH-DRILLER	3200		
DEPTH-LOGGER	3200		
DRILLER	HUSS DRILLING		
RECORDED BY	RMB		
SRVC	RMBAKER LLC	API	N/A
WITNESSED BY	M. JOHNSTON	LIC	N/A

RUN NO.	BIT	FROM	TO	SIZE	MAT.	FROM	TO
1	3.9	2600	3200	3.06 ID	STEEL	0	2600
				4	STEEL	0	2290
				5	STEEL	0	1780
				6	STEEL	0	1200

LOG CODES					
3-arm caliper	CAL	long normal resistivity	RLN	deep induction conductivity	IDC
natural gamma (CPS)	GAMM	8 inch resistivity	R8	shallow induction conductivity	ISC
spontaneous potential	ESP	32 inch resistivity	R32	sonic interval velocity	DT
single point resistance	RES	deep induction resistivity	ILD	sonic porosity (RHG method)	SPHI
short normal resistivity	RSN	shallow induction resistivity	ILM	repeat designation	R







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END OF LOG
