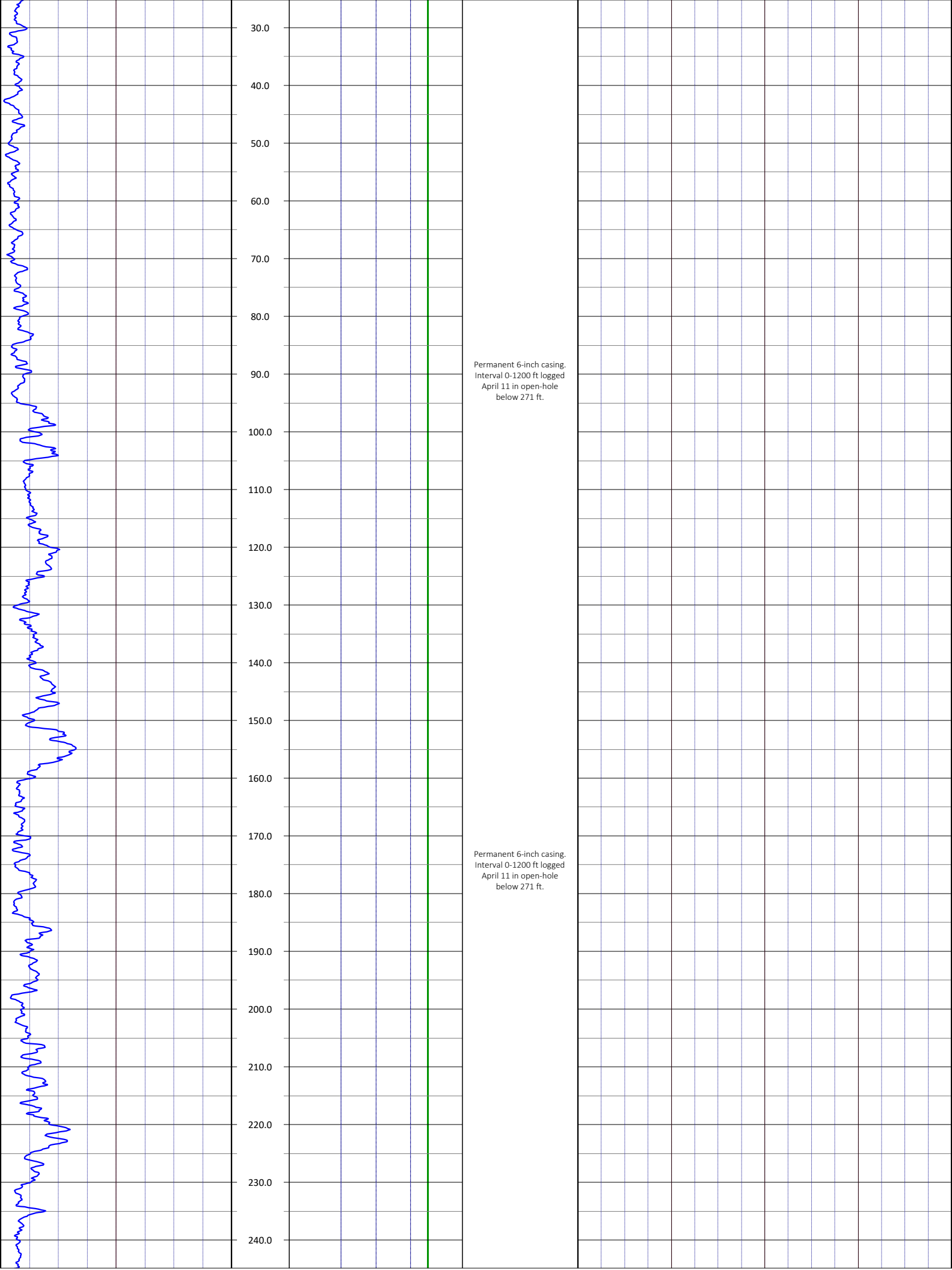
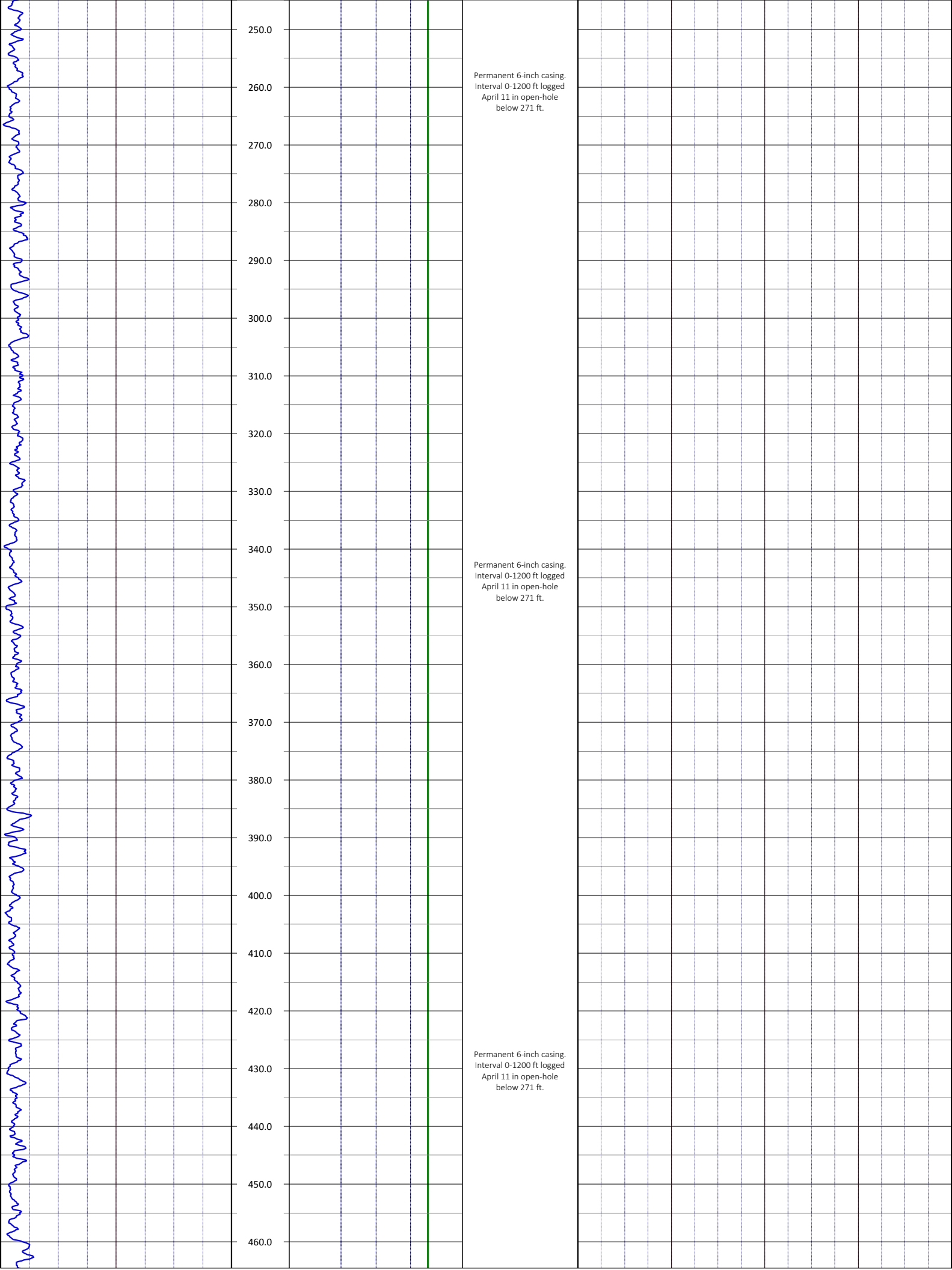


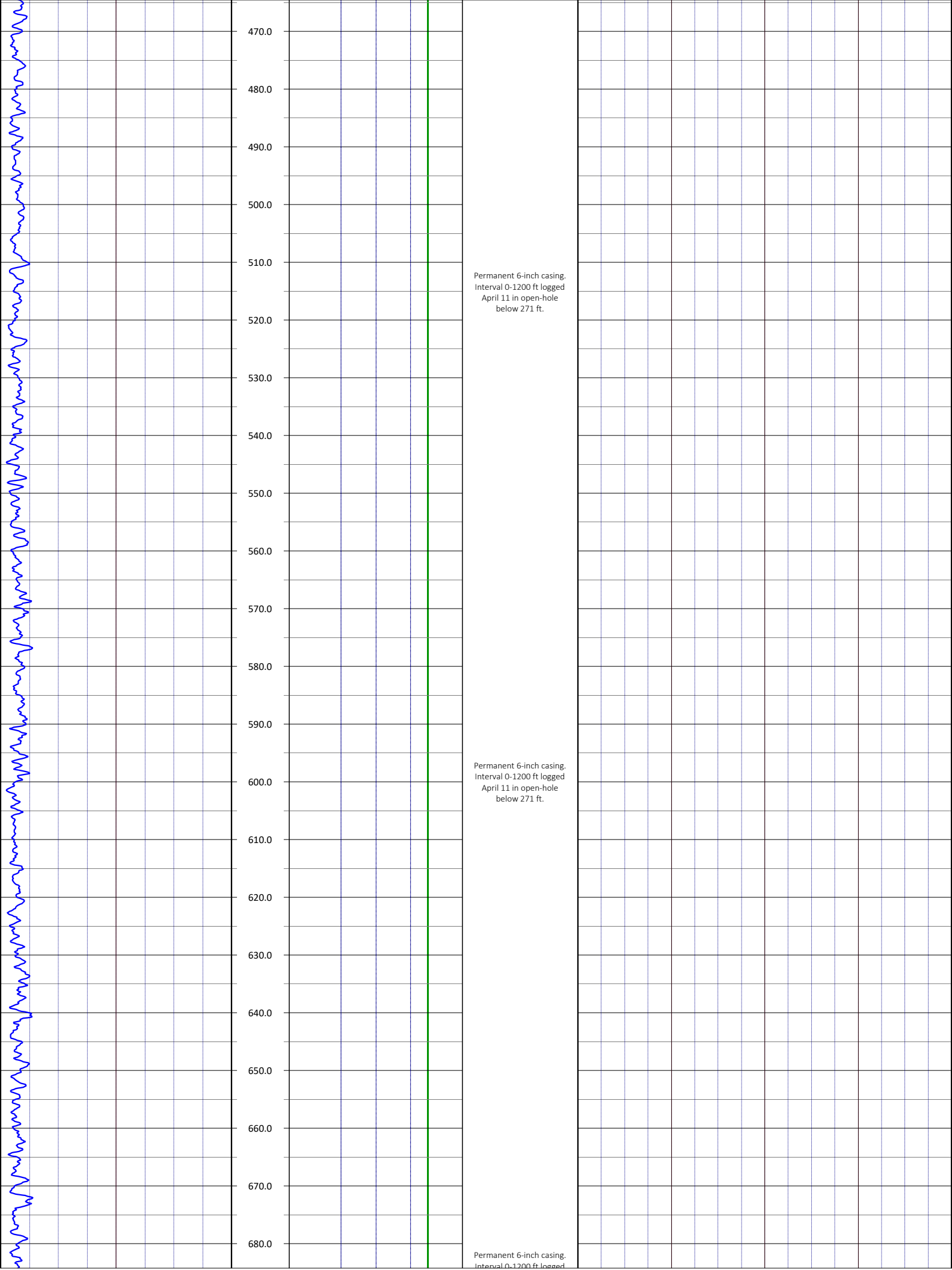
SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

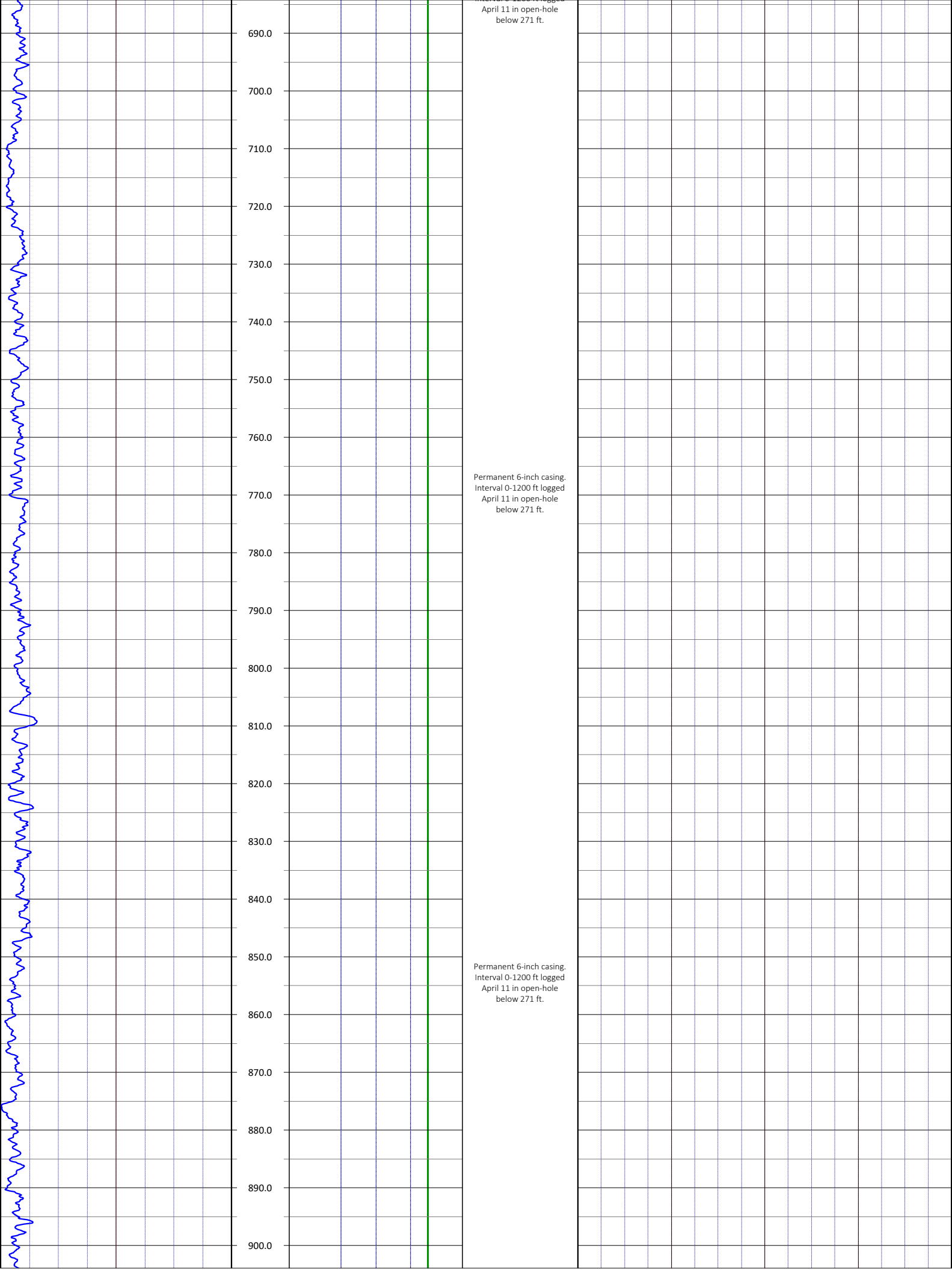
**BID NUMBER RFB 1816
CROOKED LAKE WELLSITE PHASE 2 – HYDROGEOLOGICAL INVESTIGATION
OF THE LOWER FLORIDIAN AQUIFER IN POLK COUNTY, FLORIDA**

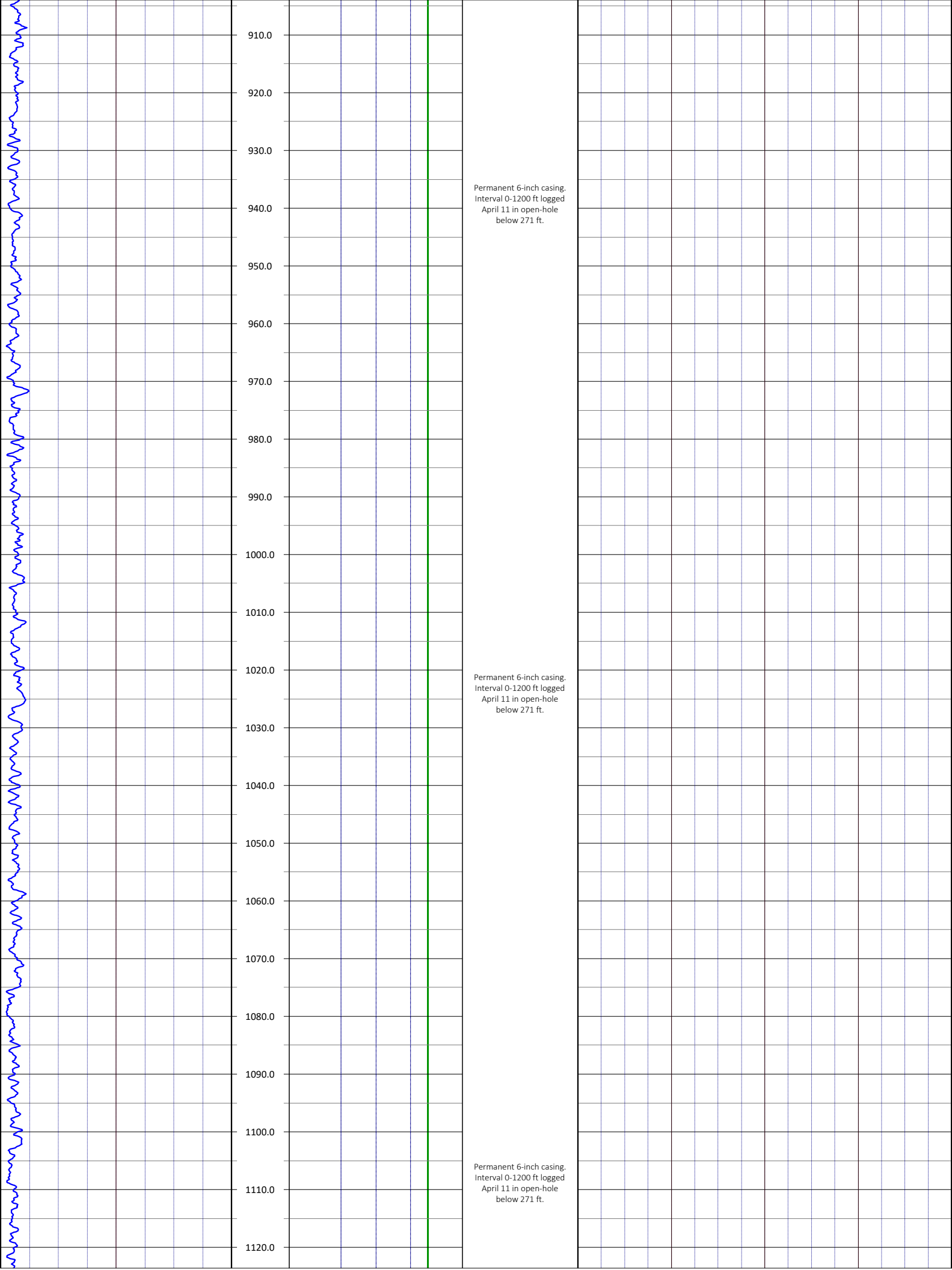
**FIGURE 2
CROOKED LAKE GEOPHYSICAL LOGS**

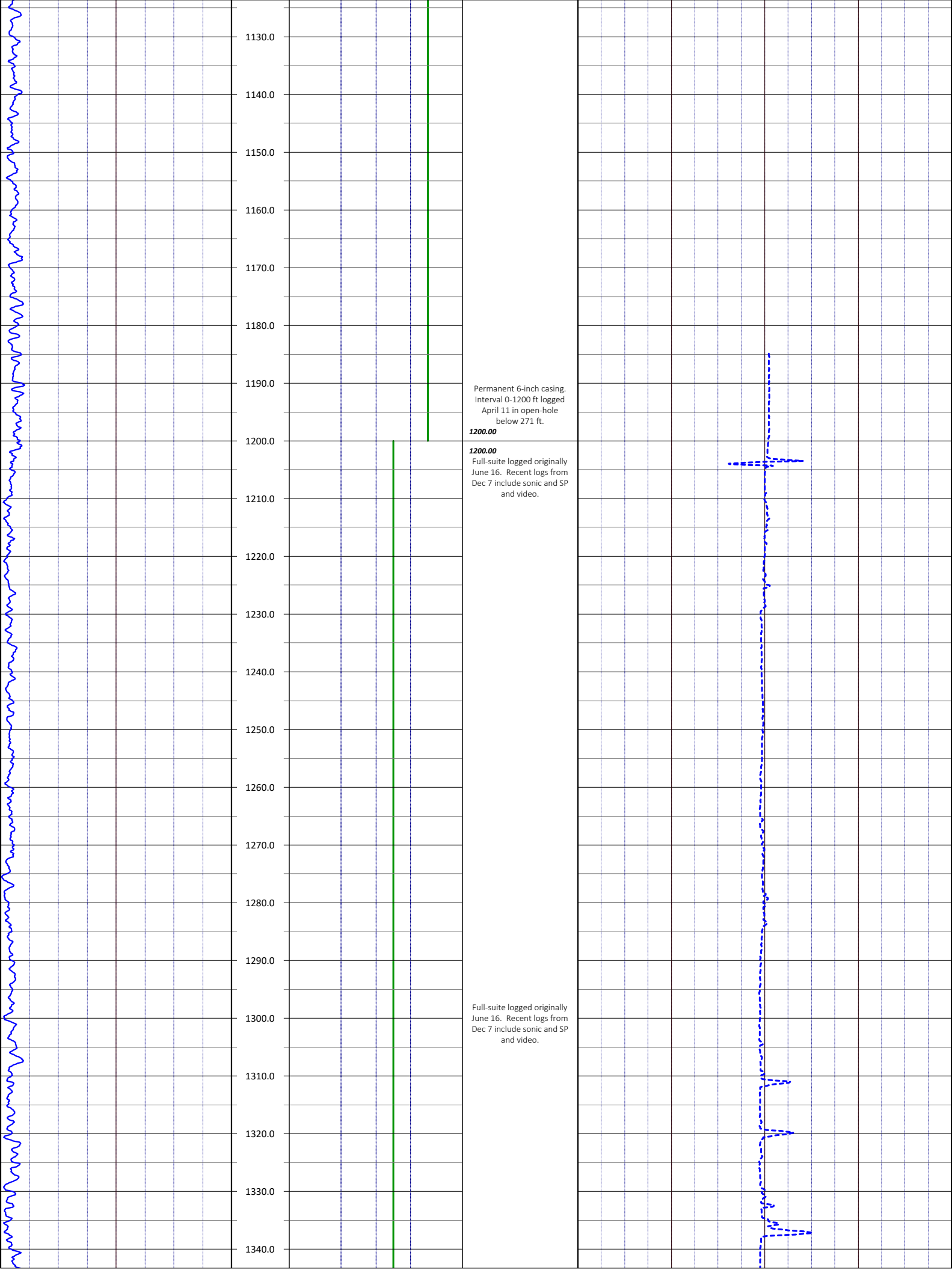


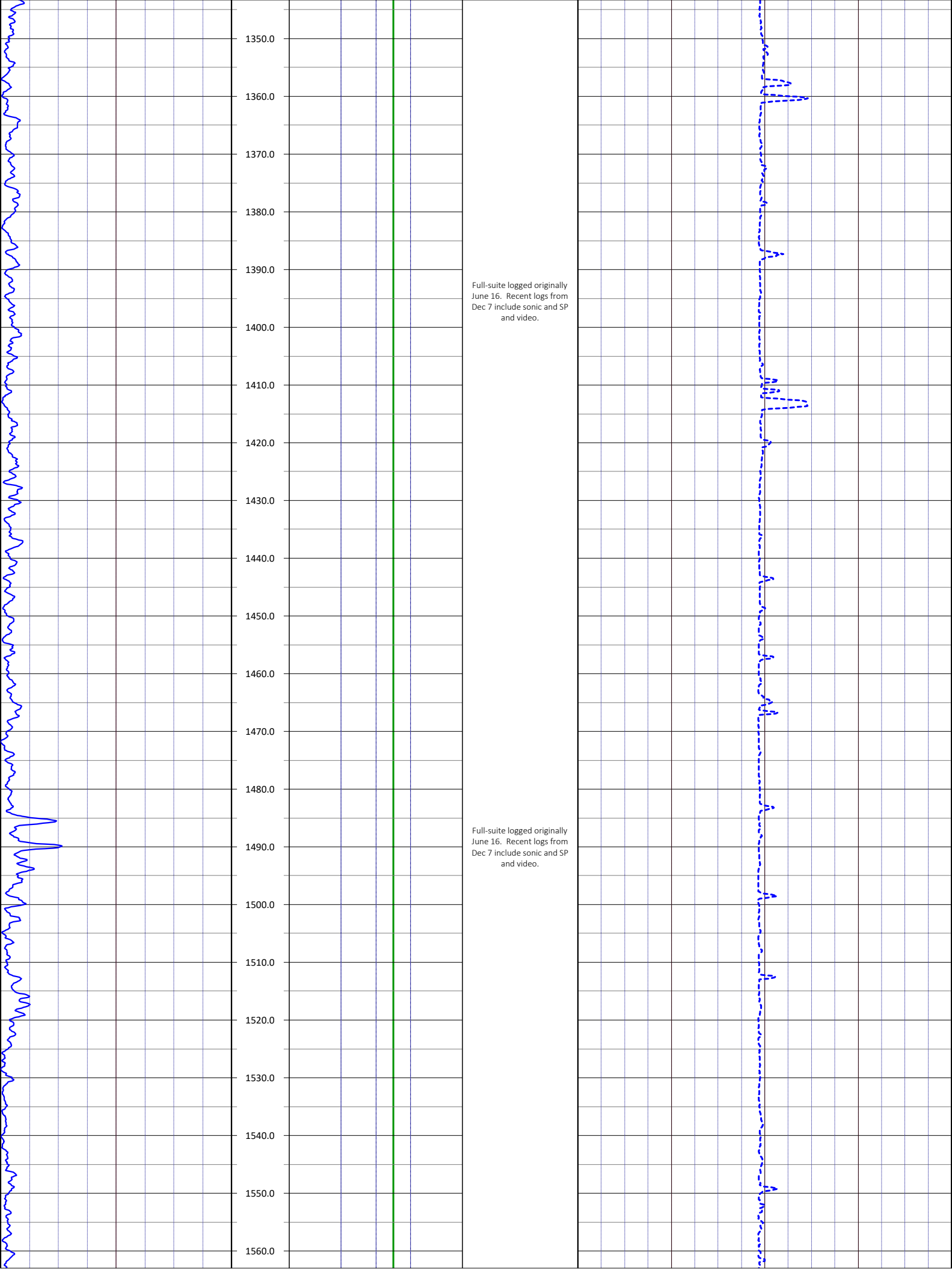


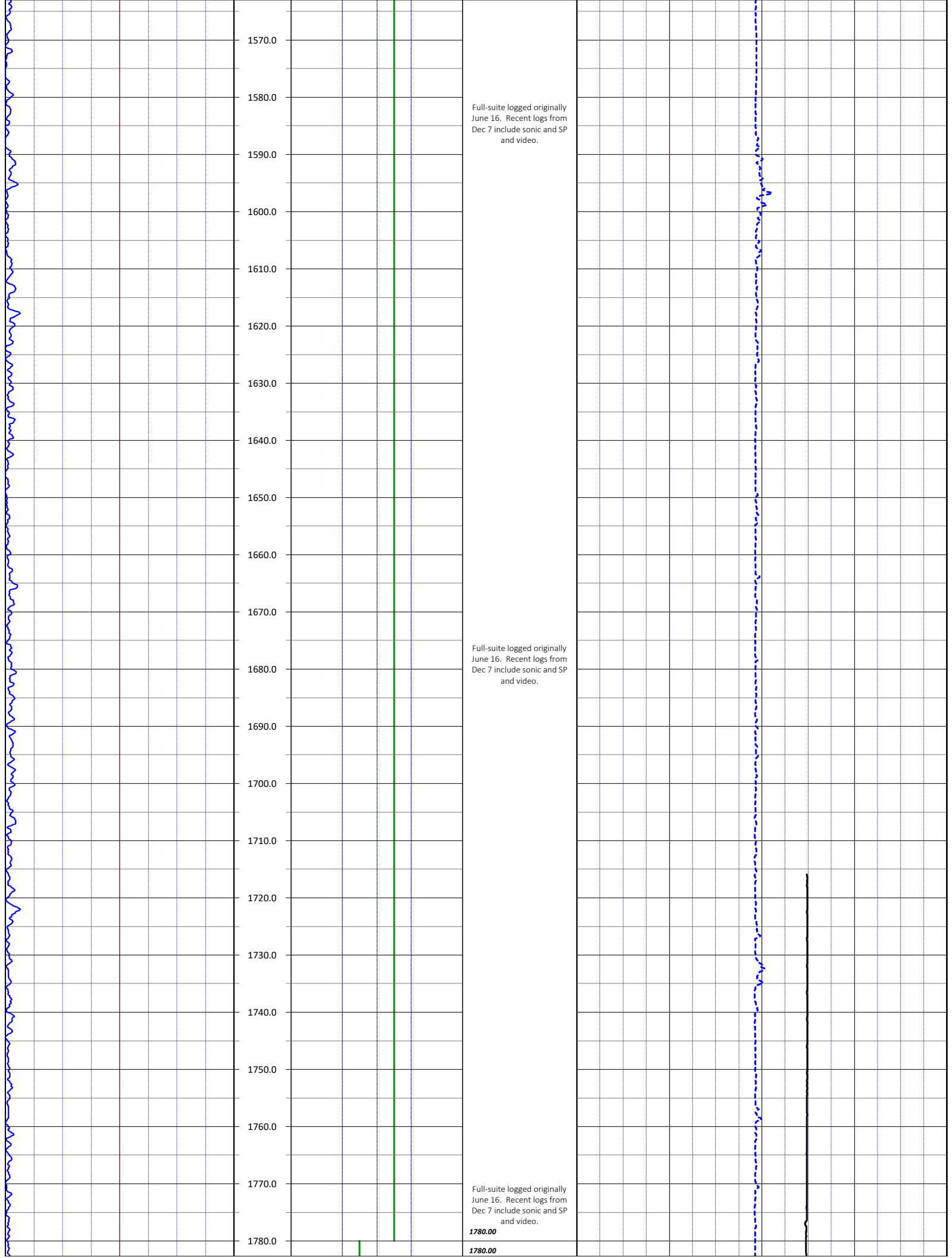


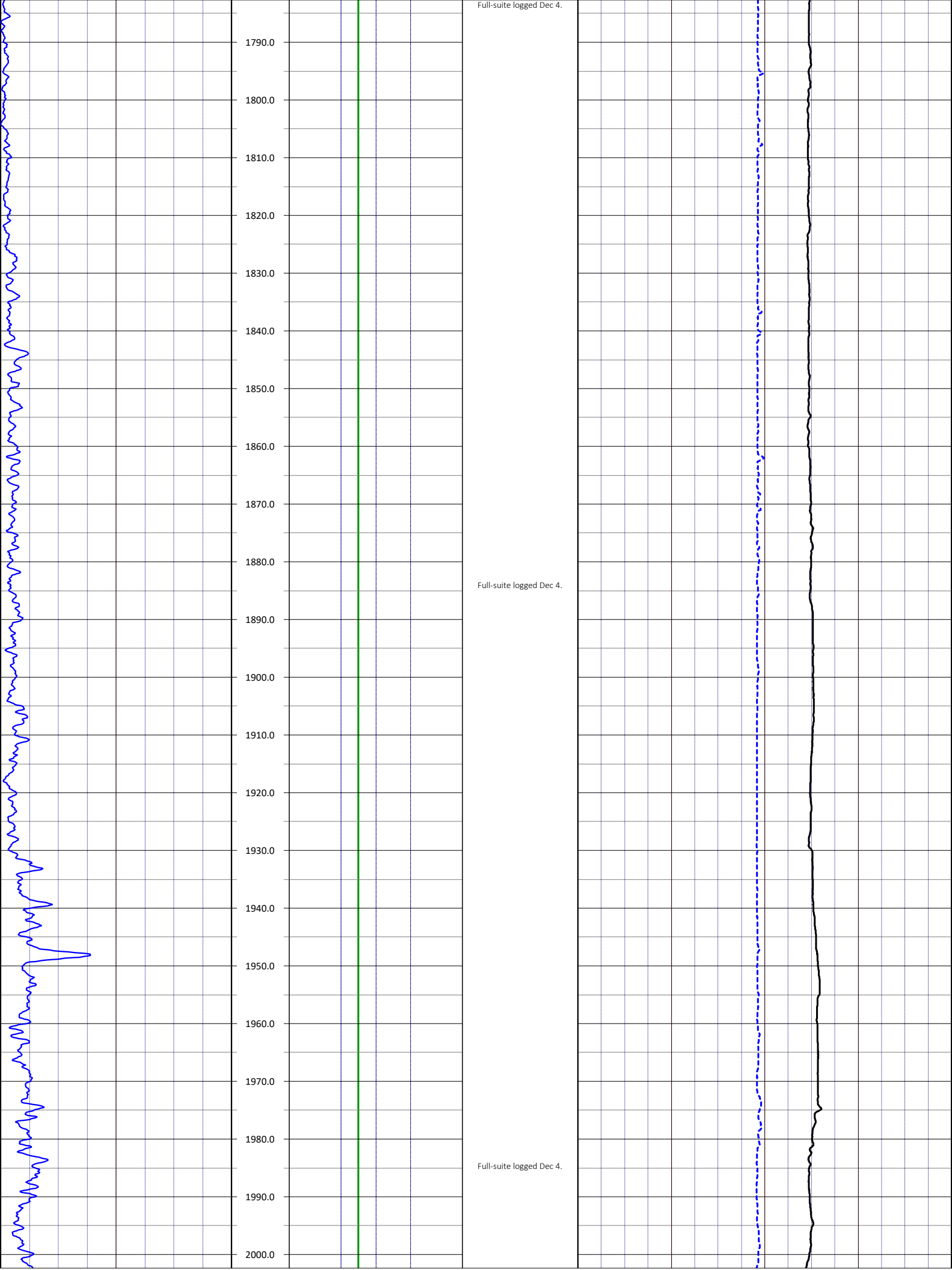


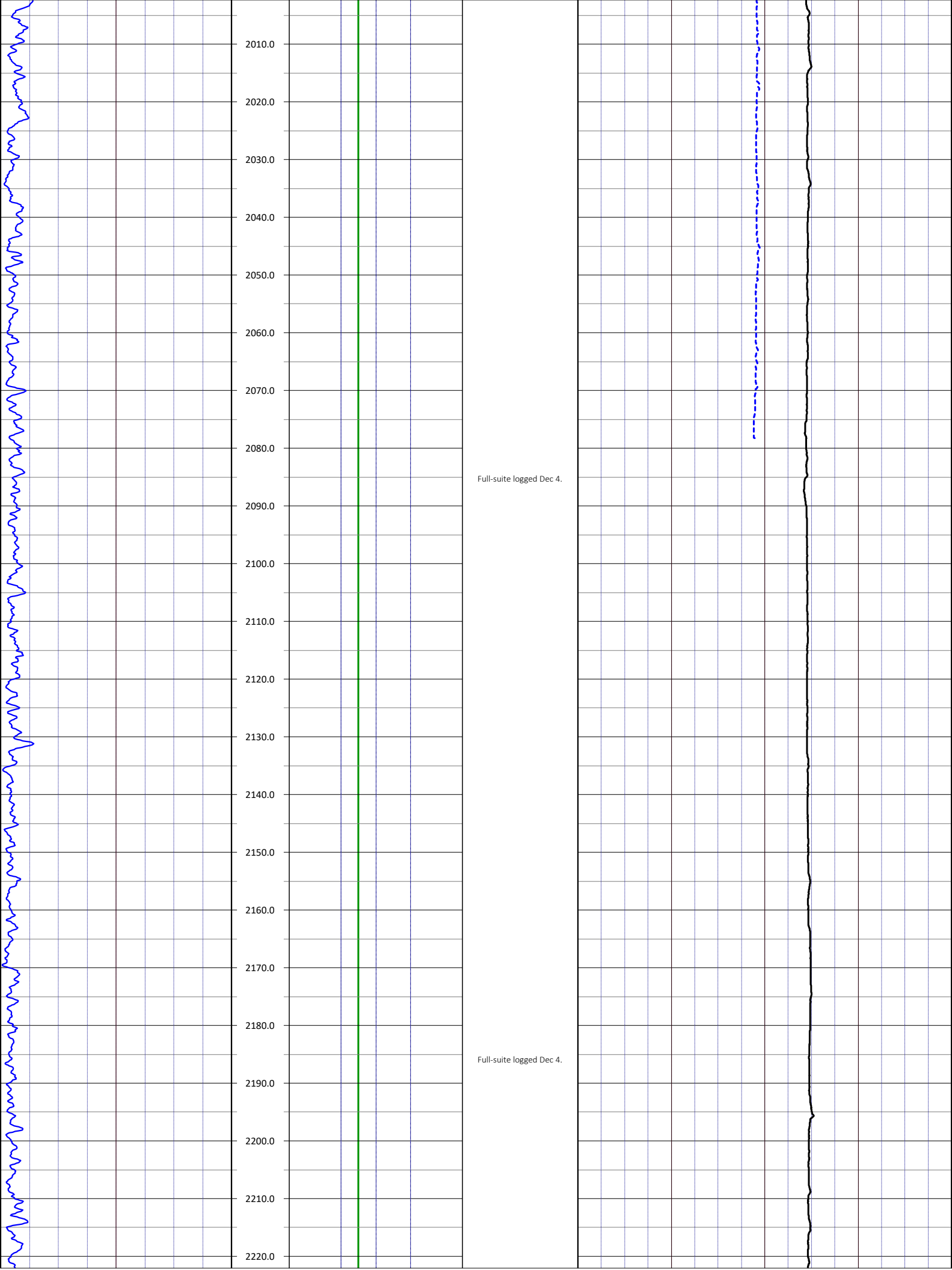


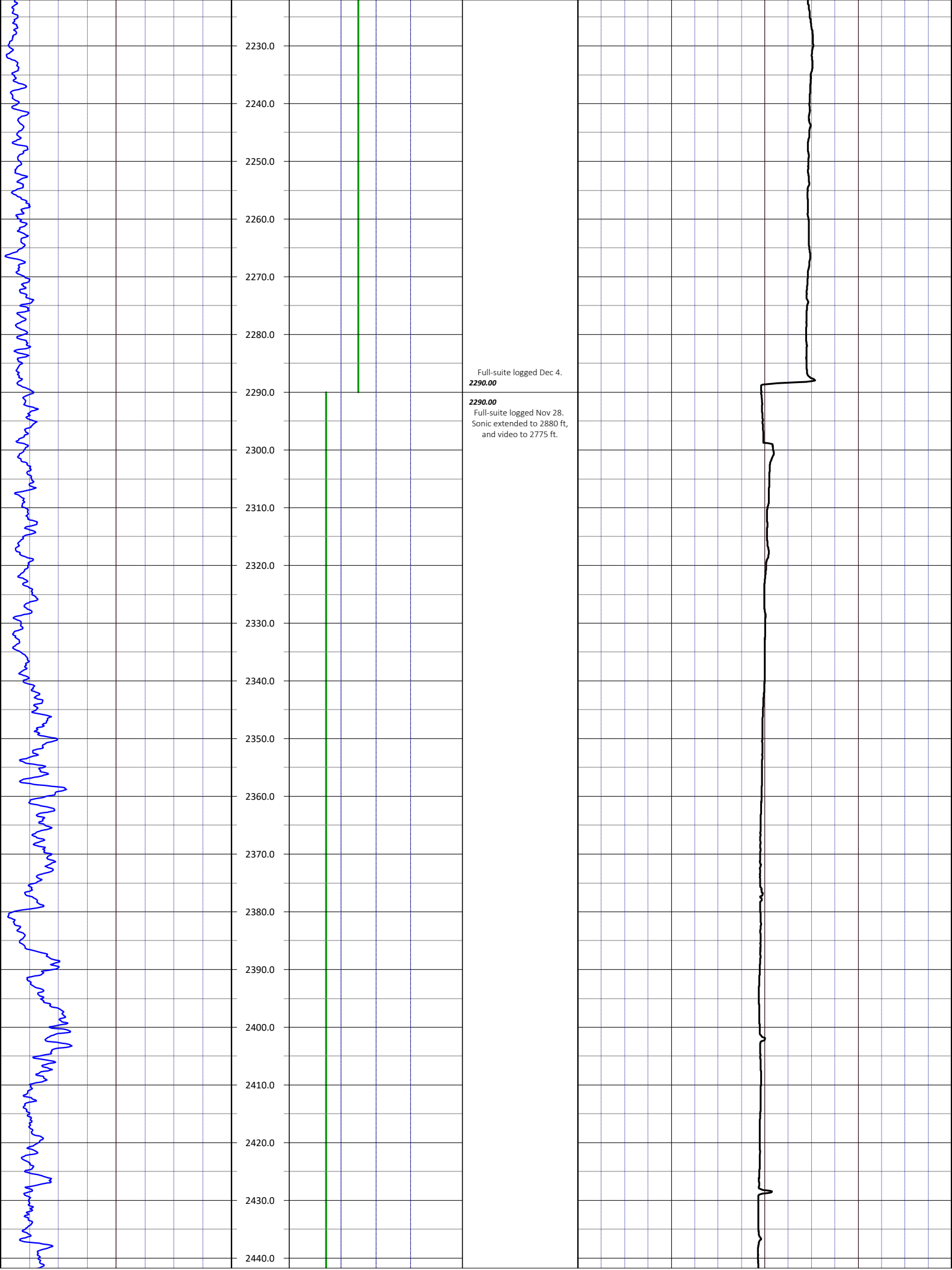


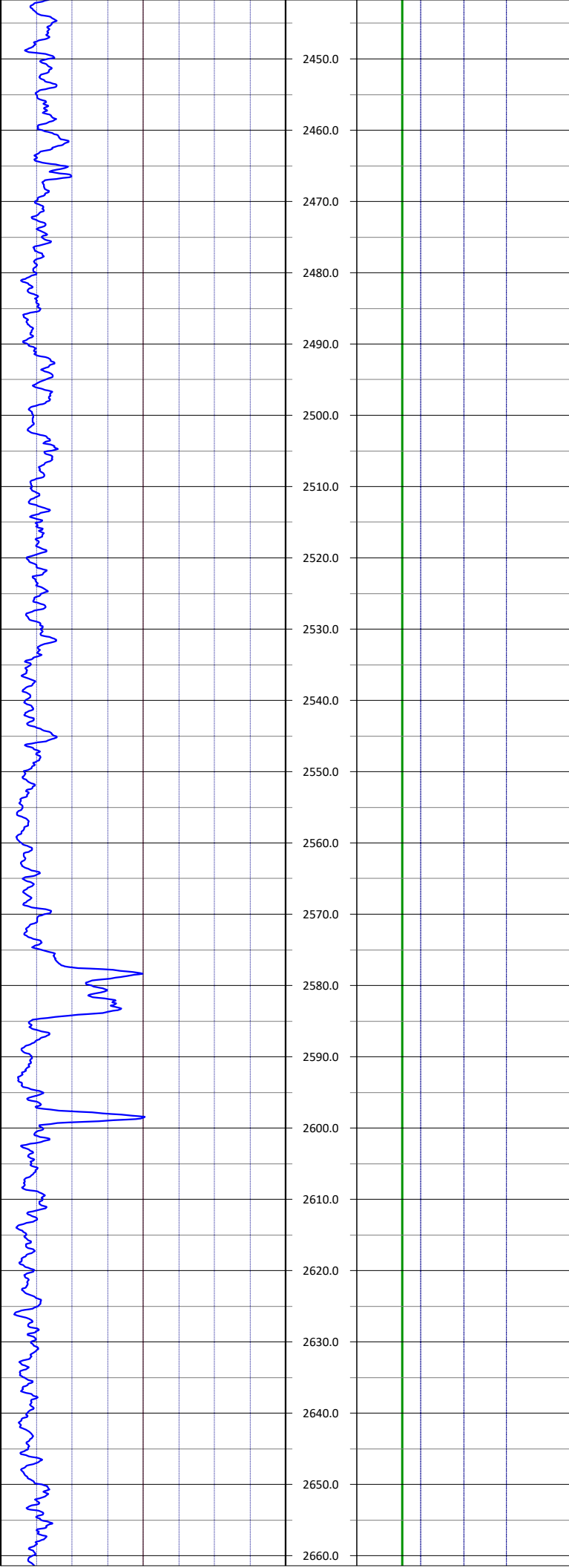








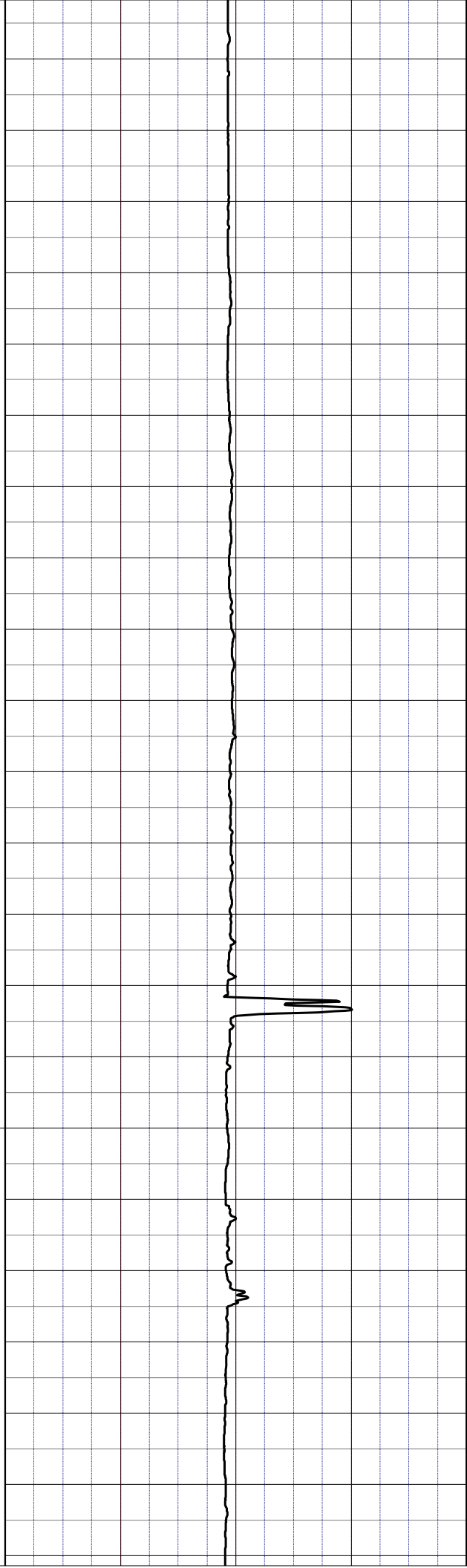


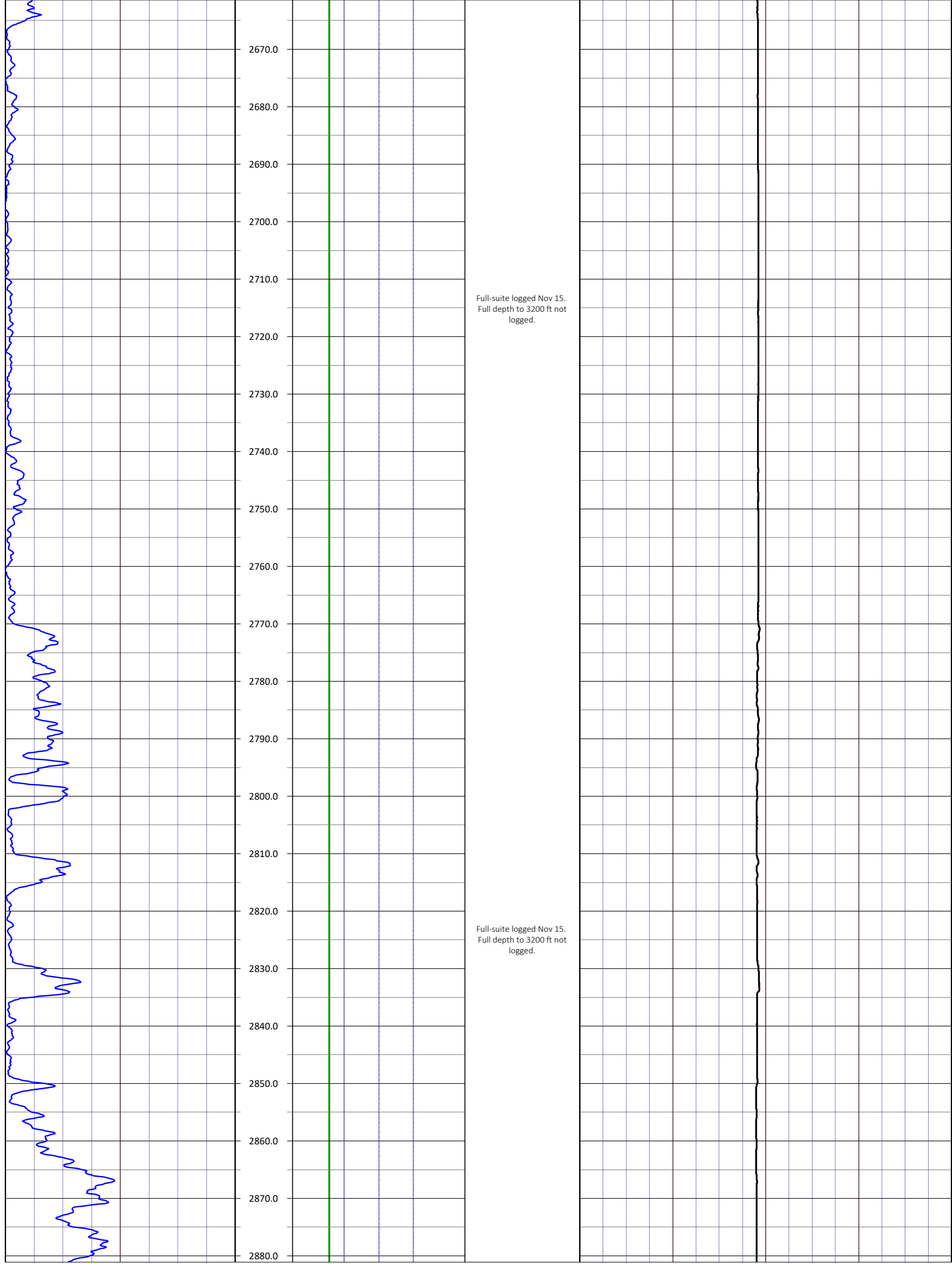


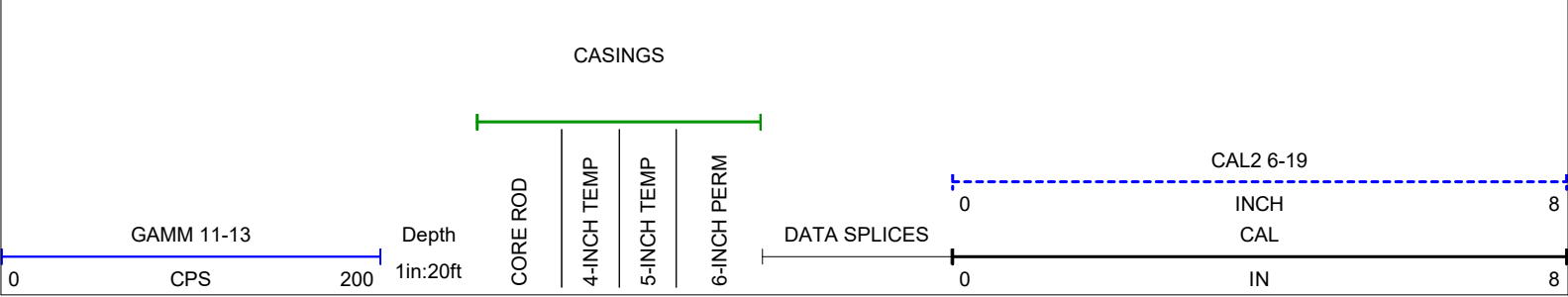
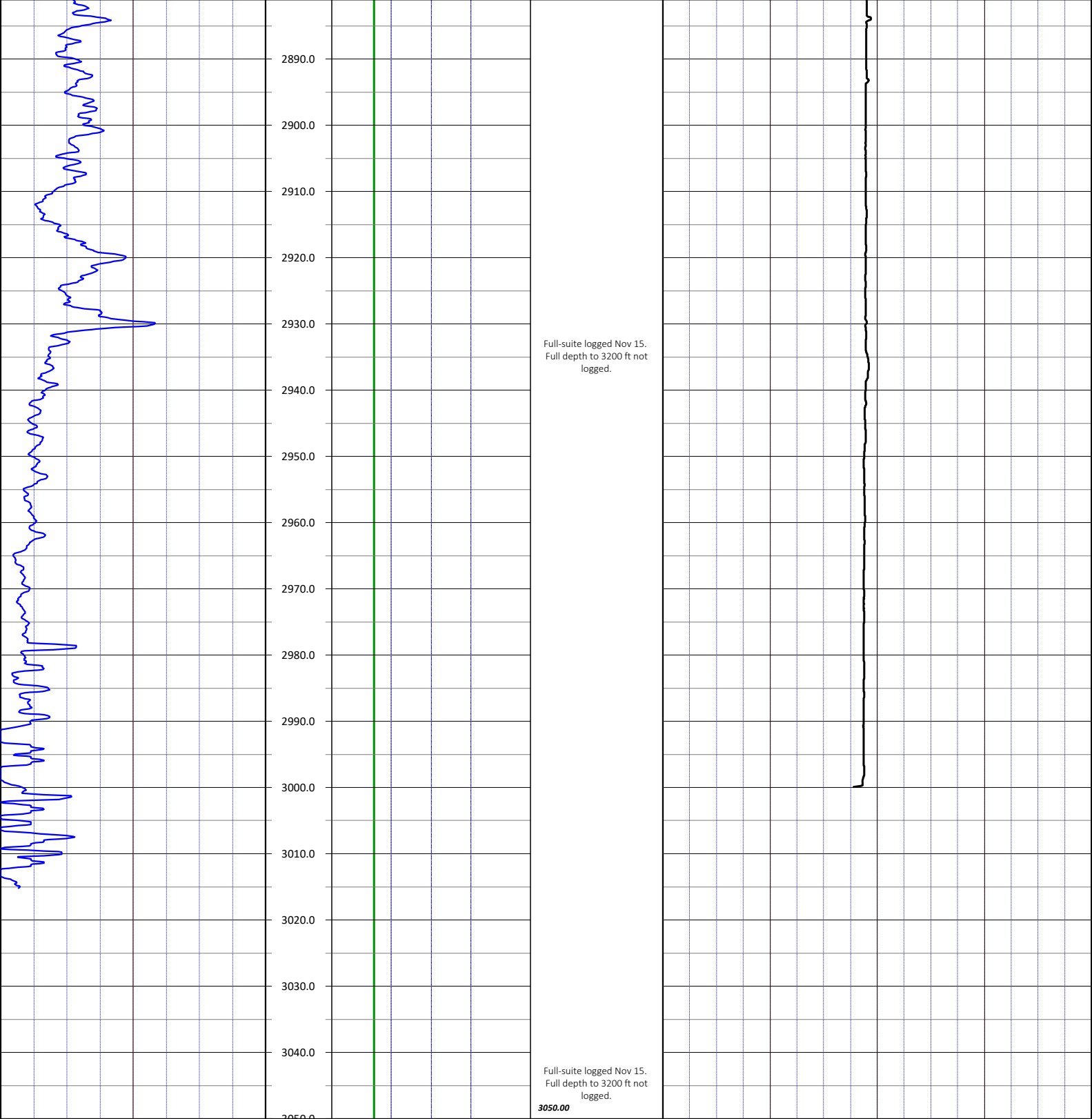
Full-suite logged Nov 28.
Sonic extended to 2880 ft,
and video to 2775 ft.

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



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

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	ALL SERVICES:
LONG	Y	CALIPER
GDAT	WGS84	NATURAL GAMMA
SEC		ELECTRIC
TWP		DUAL INDUCTION
RGE		FLUID CONDUCTIVITY
		FLUID TEMPERATURE
		VIDEO

PERMANENT DATUM:

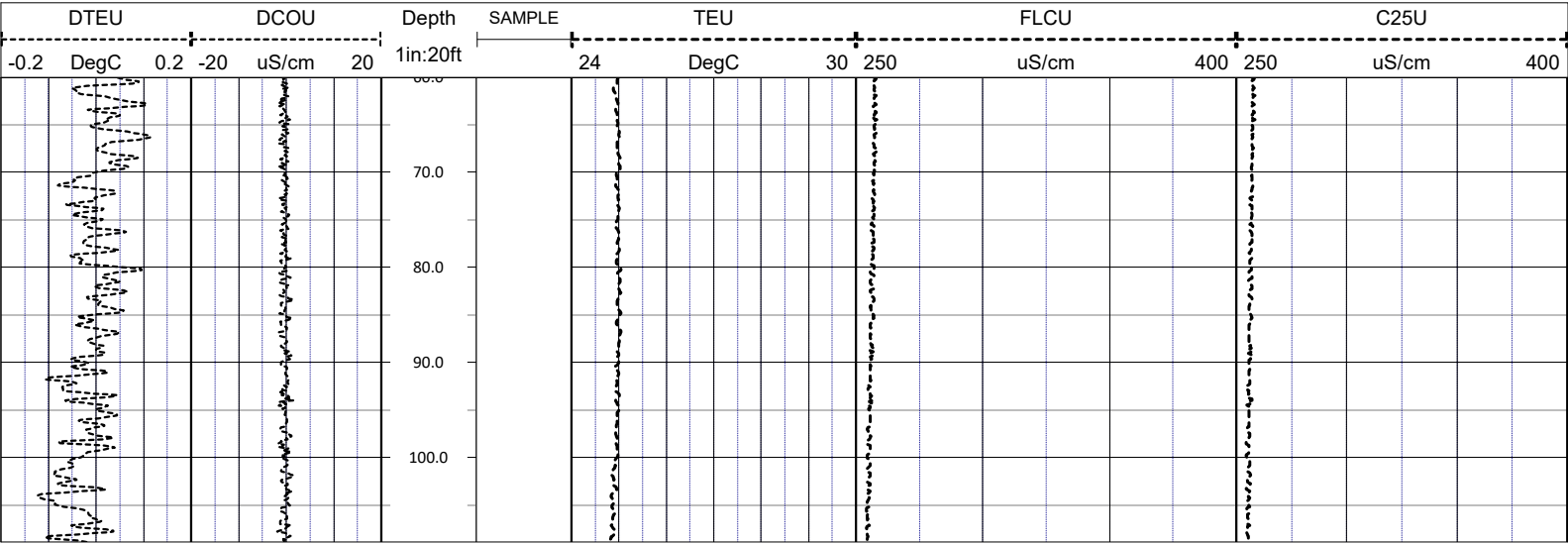
LOG MEASURED FROM: GROUND SURFACE

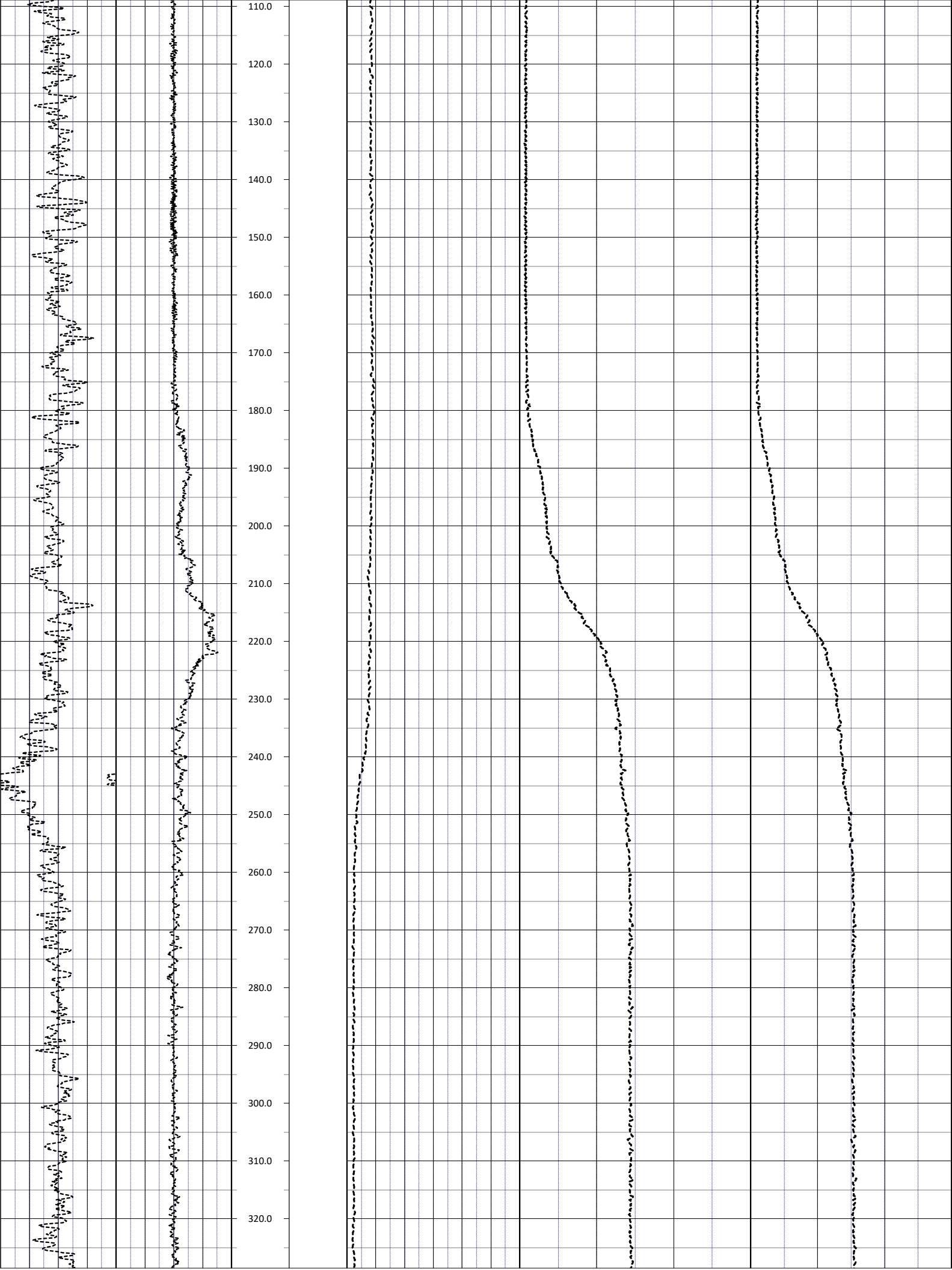
DRILLING MEASURED FROM:

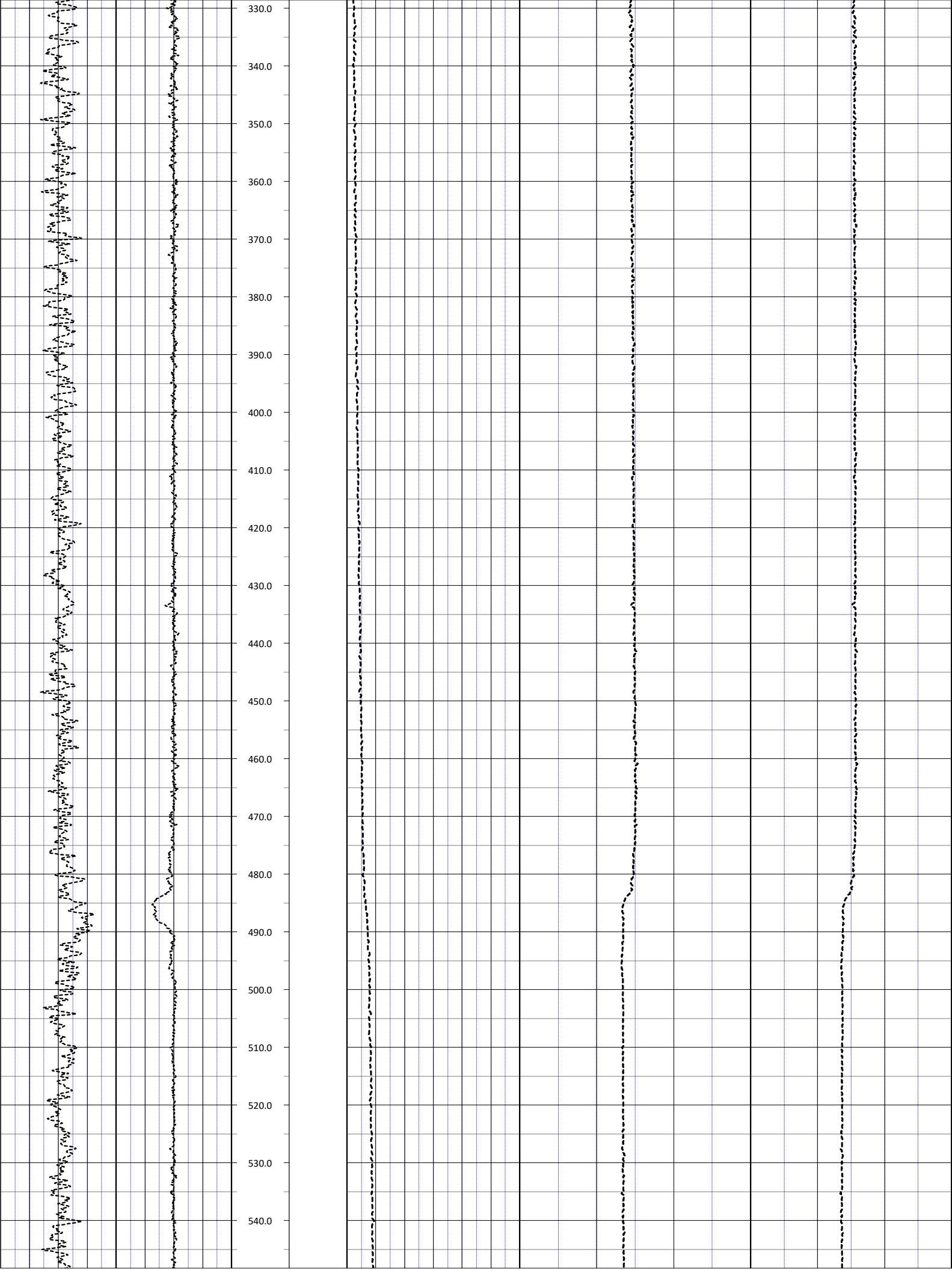
DATE	11 Apr 17	TYPE FLUID IN HOLE	WATER
RUN No	1	LOGGING SPEED (FT/MIN)	30
TYPE LOG	FLUID COND & TEMP	TROLLING DIRECTION	DOWN
		PUMPING RATE (GPM)	N/A
DEPTH-DRILLER	1203		
DEPTH-LOGGER	1204.3		
DRILLER	HUSS DRILLING		
RECORDED BY	RMB		
SRVC	RMBAKER LLC	API	N/A
WITNESSED BY	J. WATSON	LIC	N/A

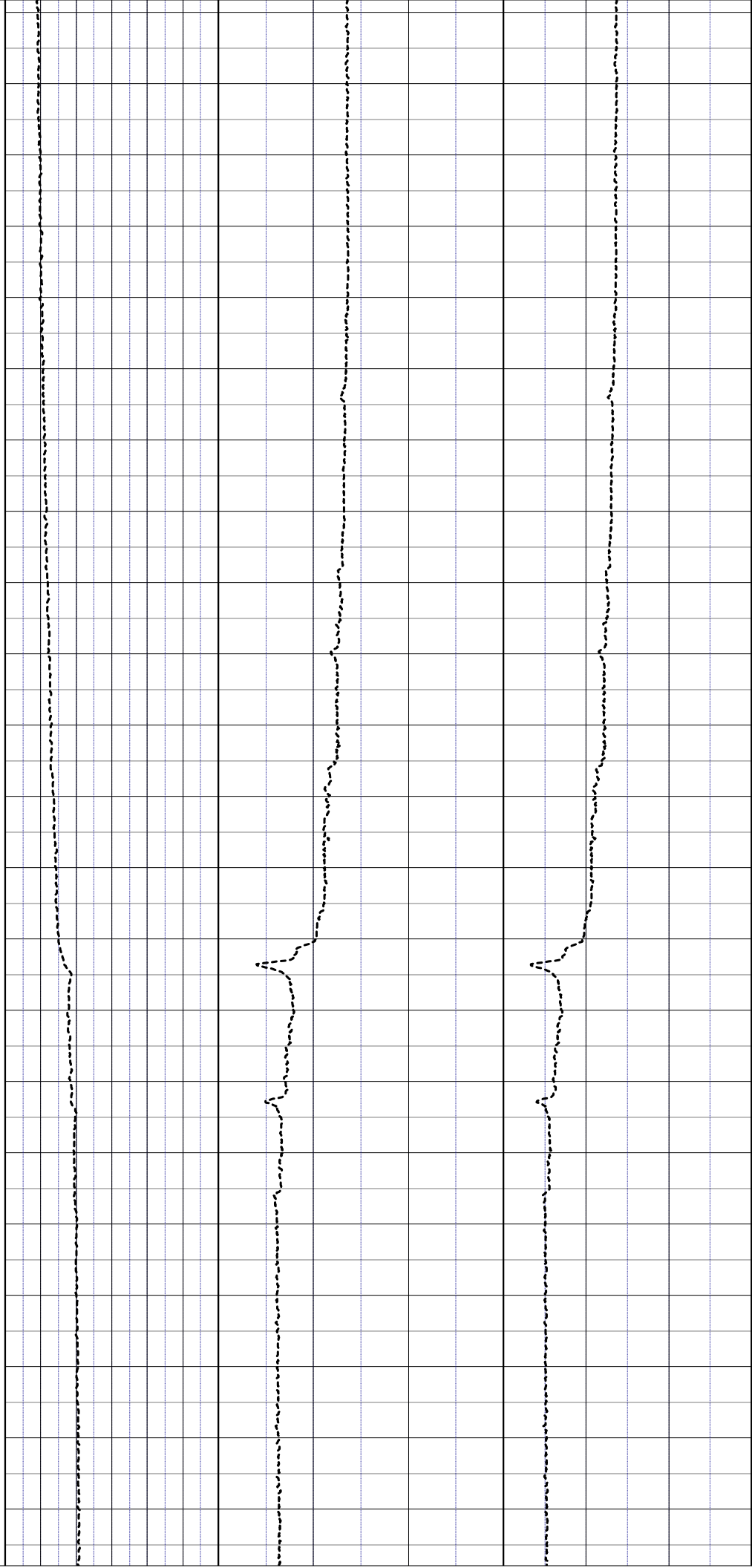
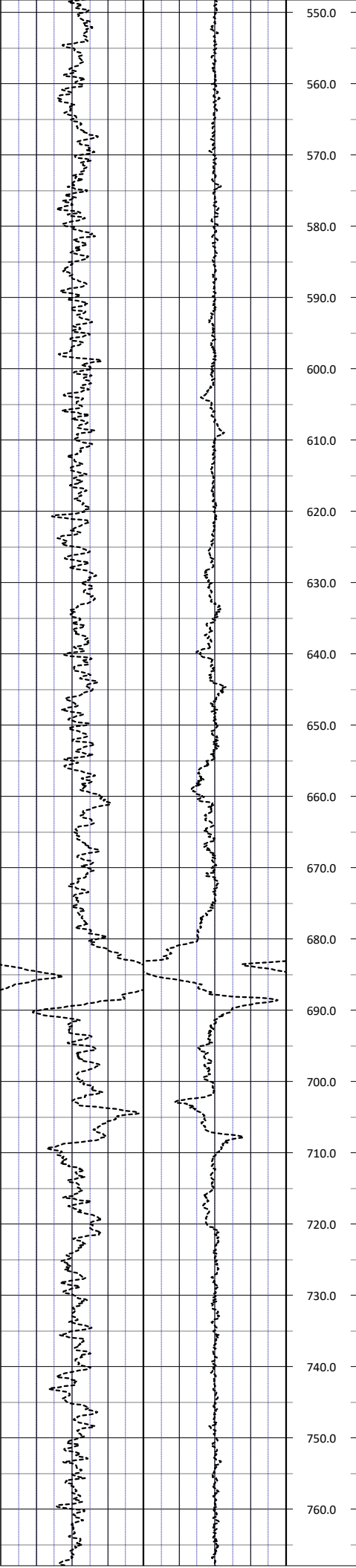
UN	BOREHOLE RECORD			CASING RECORD			
O.	BIT	FROM	TO	SIZE	MAT.	FROM	TO
	11.875	270	1204	12	STEEL	0	270

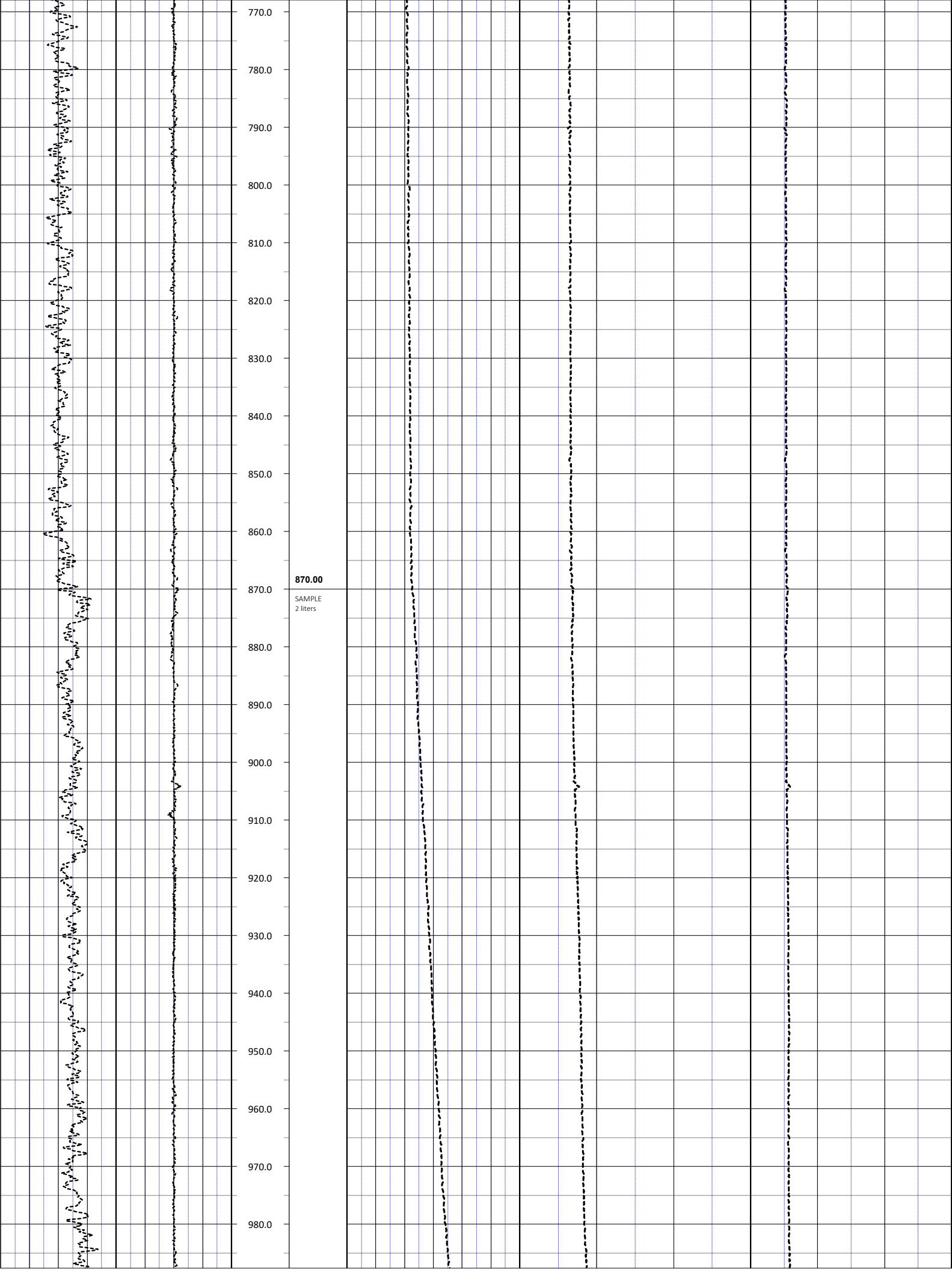
WATER QUALITY LOG CODES					
static fluid temperature	TEU	dynamic fluid conductivity	FLCP	caliper	CAL
dynamic fluid temperature	TEP	static differential cond.	DCOU	repeat designation	R
static differential temperature	DTEU	dynamic differential cond.	DCOP	natural gamma	GAMM
dynamic differential temp.	DTEP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

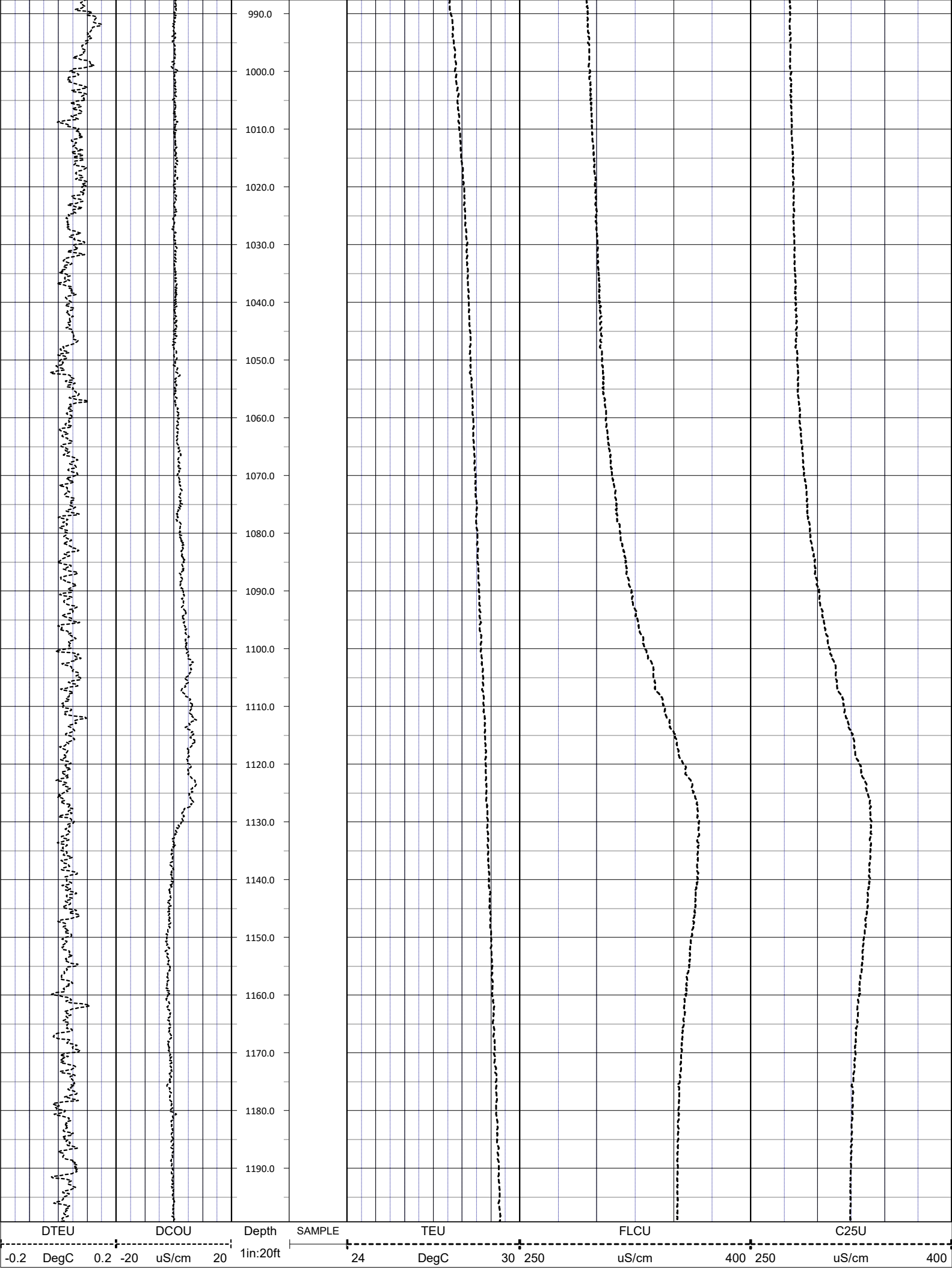












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Florida Licensed Geology Business GB 458

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 1200-2080 FT

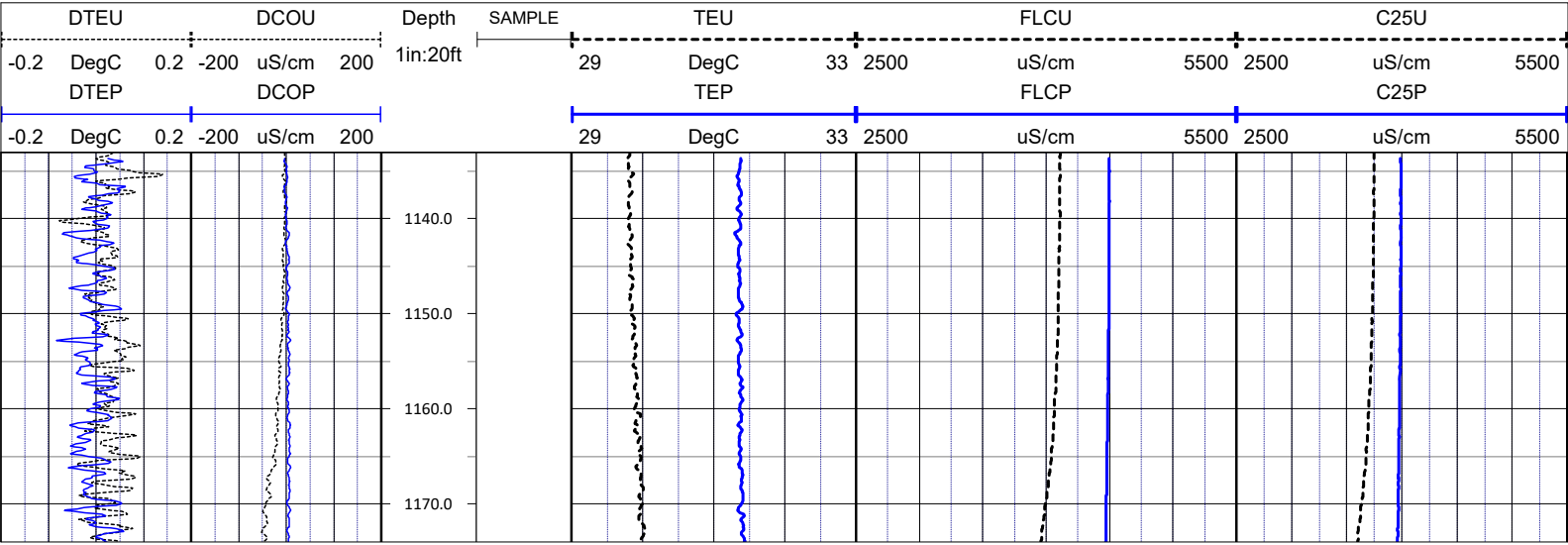
rob@rmbaker.com
www.rmbaker.com

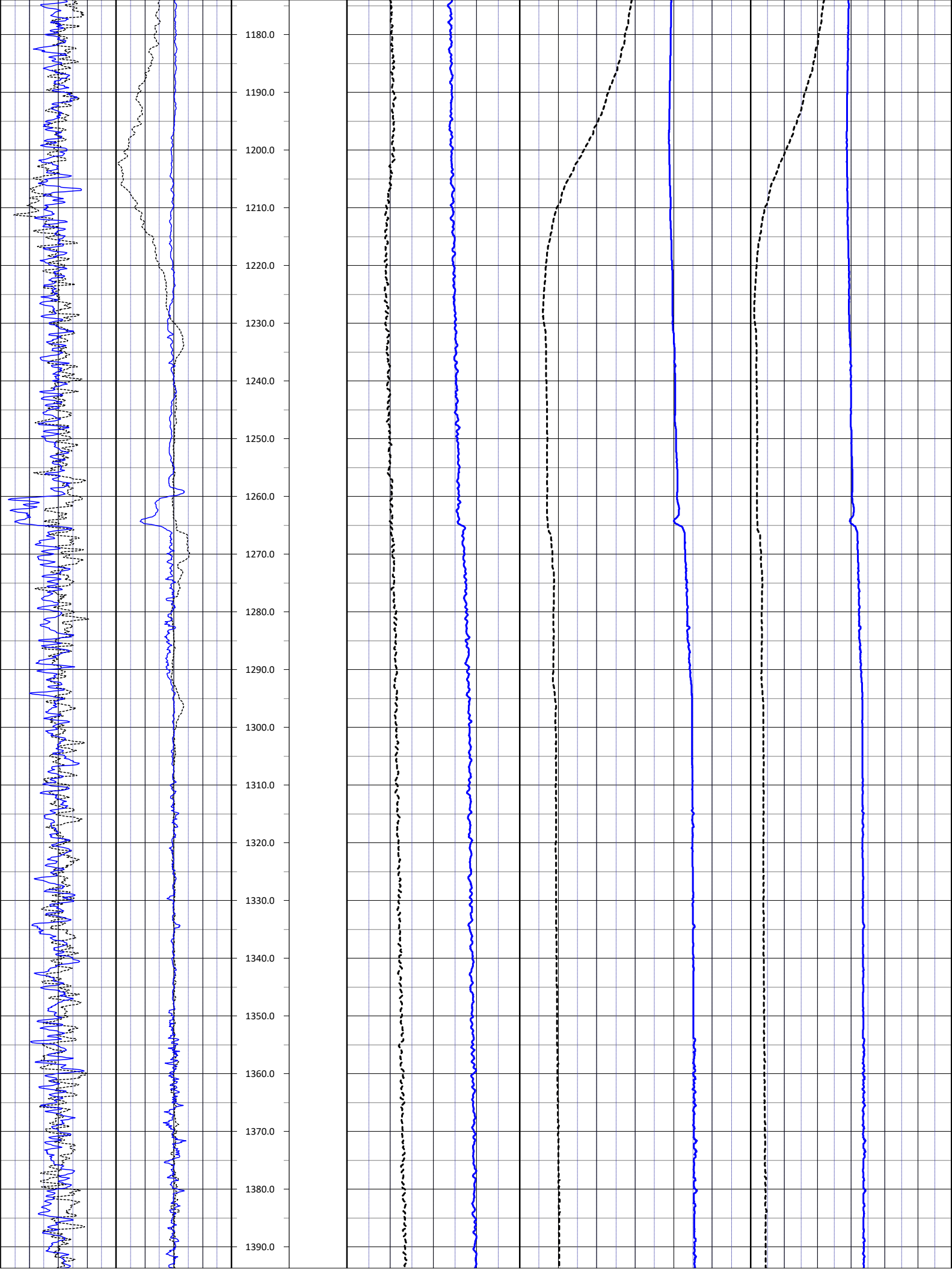
HEADER NOTES:
THE PUMPING RATE WAS 29 GPM.

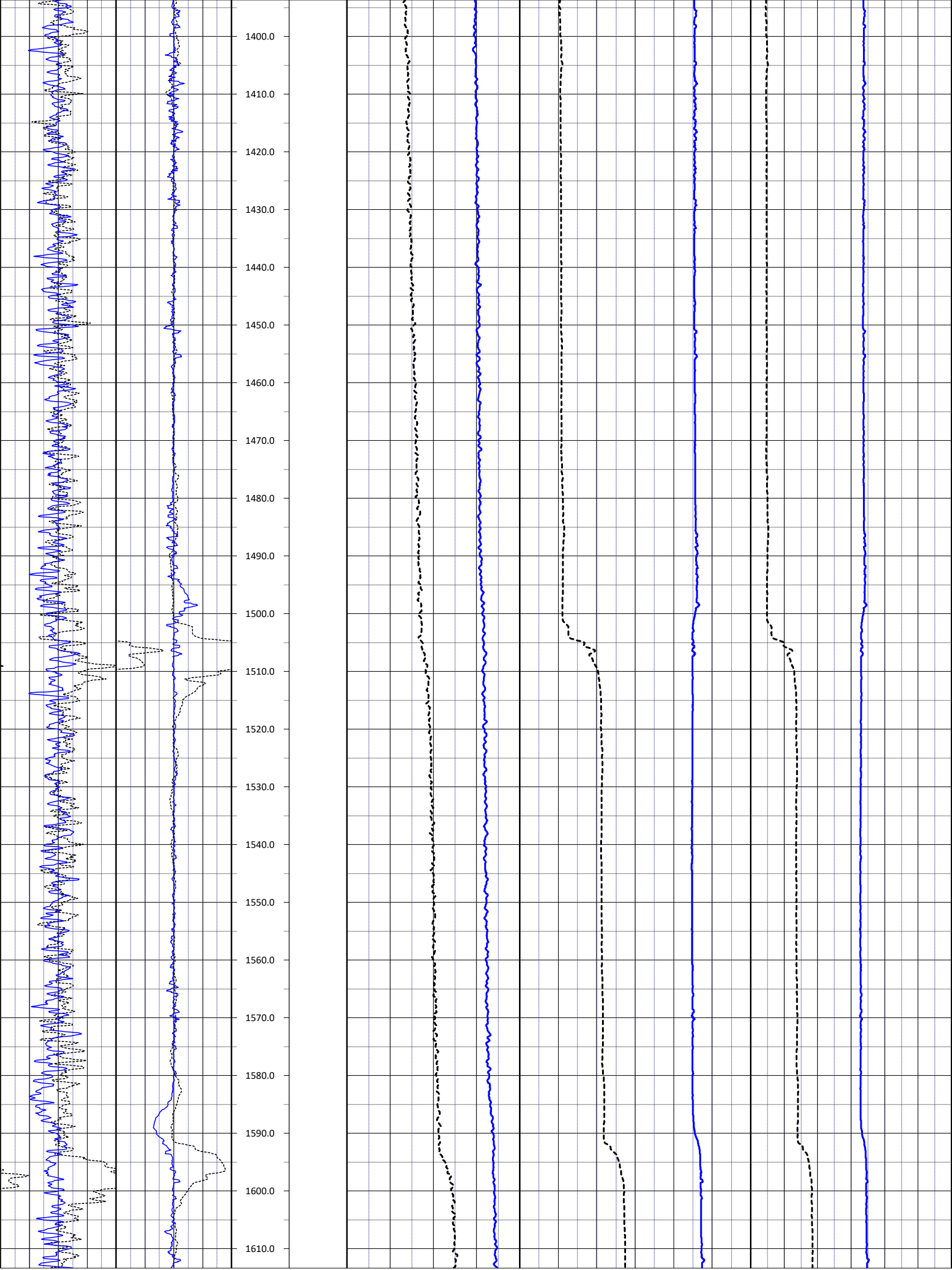
COMP	SWFWMD						
LOC	CROOKED LAKE SITE						
FLD	CROOKED LAKE						
CNTY	POLK						
STAT	FL						
PROV	FL						
CTRY	USA						
LATI		X		ALL SERVICES:			
LONG		Y		CALIPER			
GDAT	WGS84			NATURAL GAMMA			
SEC		H DAT		DUAL INDUCTION			
		ELEV		ELECTRIC			
TWP		V DAT		FLUID CONDUCTIVITY			
				FLUID TEMPERATURE			
RGE				SAMPLES			
PERMANENT DATUM:							
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 CASING RECORD							
NO.	BIT	FROM	TO	SIZE	MAT.	FROM	TO
1	3.8	1200	2080	4	STEEL	0	1200

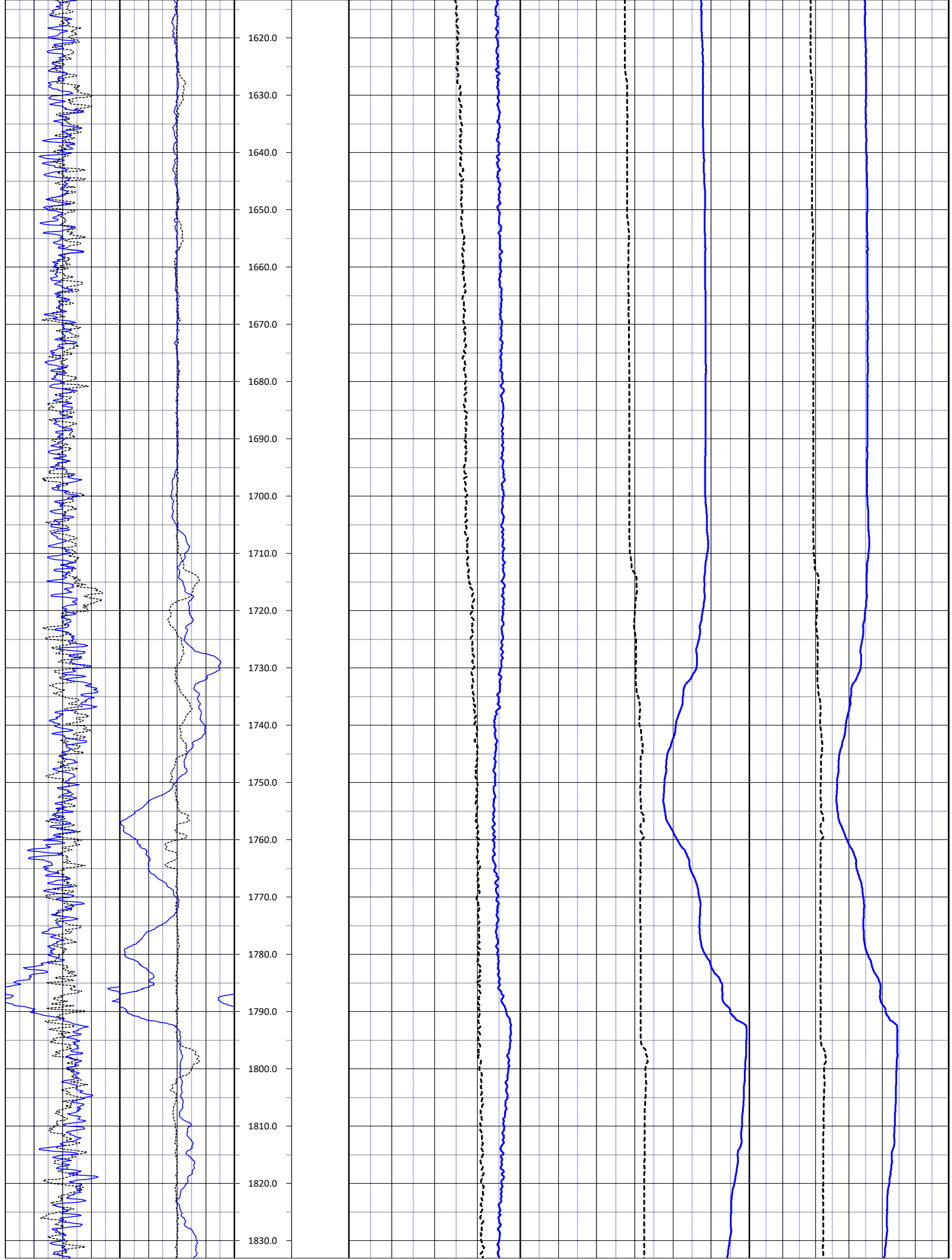
WATER QUALITY LOG CODES

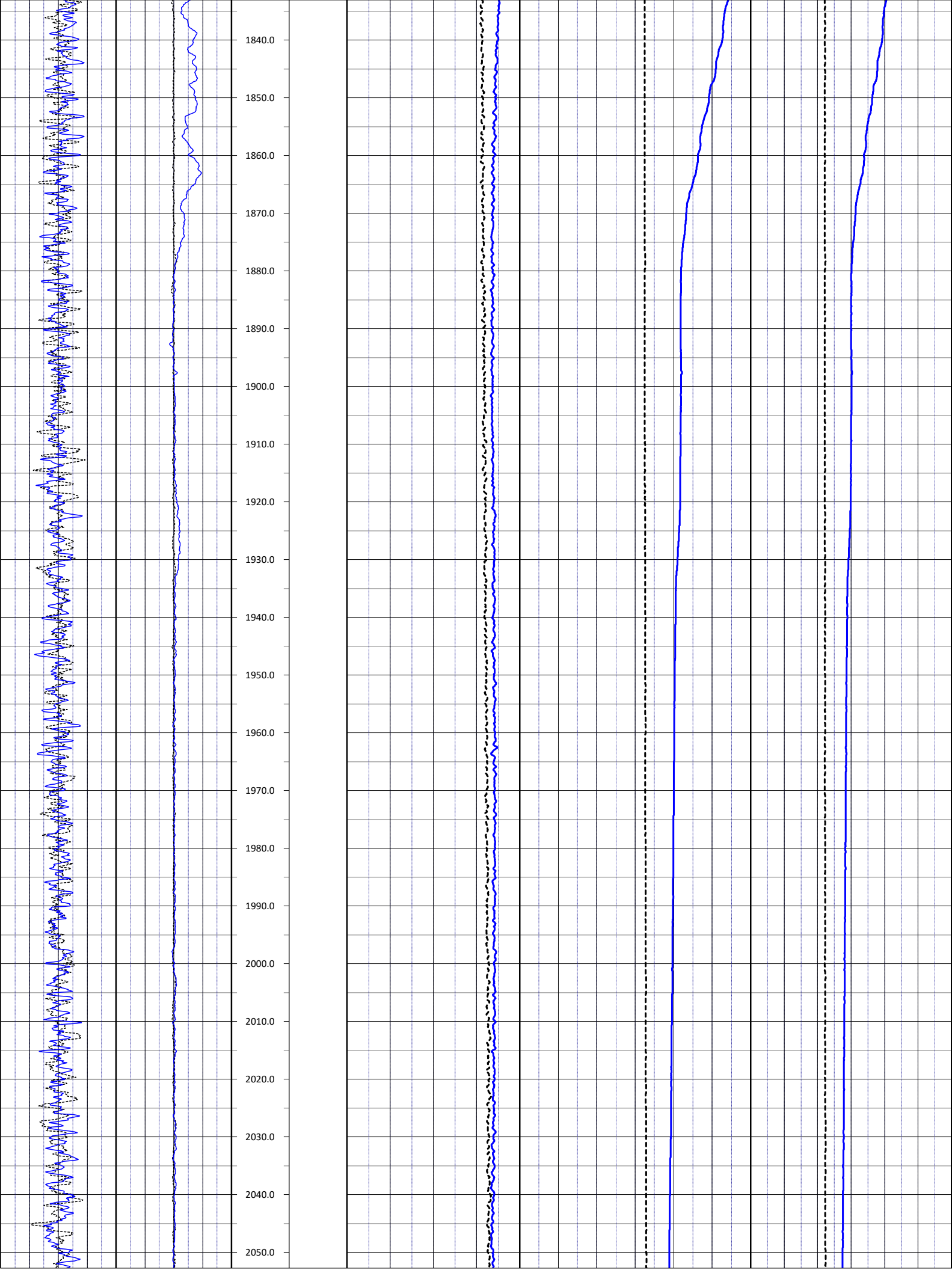
static fluid temperature	TEU	dynamic fluid conductivity	FLCP	caliper	CAL
dynamic fluid temperature	TEP	static differential cond.	DCOU	repeat designation	R
static differential temperature	DTEU	dynamic differential cond.	DCOP	natural gamma	GAMM
dynamic differential temp.	DTEP	static specific conductance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

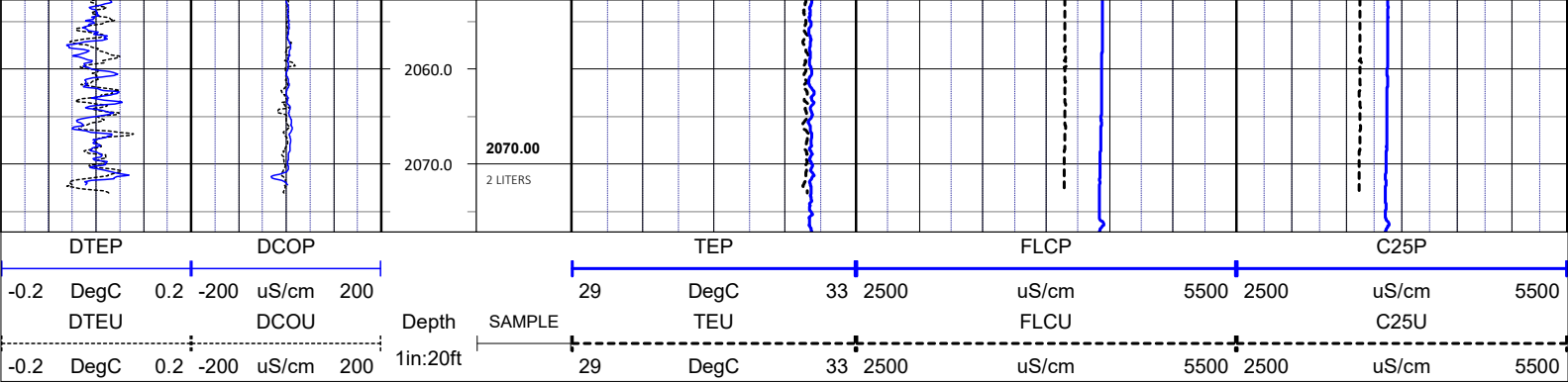












NOTES:
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Florida Licensed Geology Business GB 458

END OF LOG



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

LOG STAGE 2290-3000

rob@rmbaker.com
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:

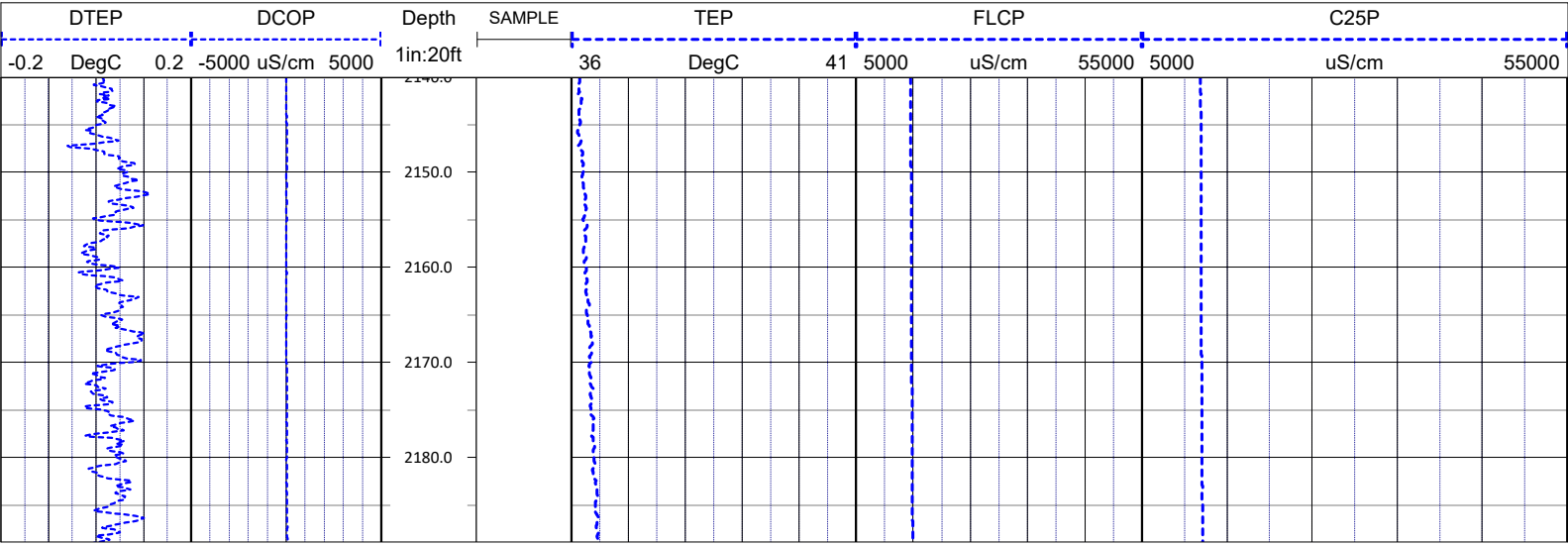
LOG MEASURED FROM: GROUND SURFACE

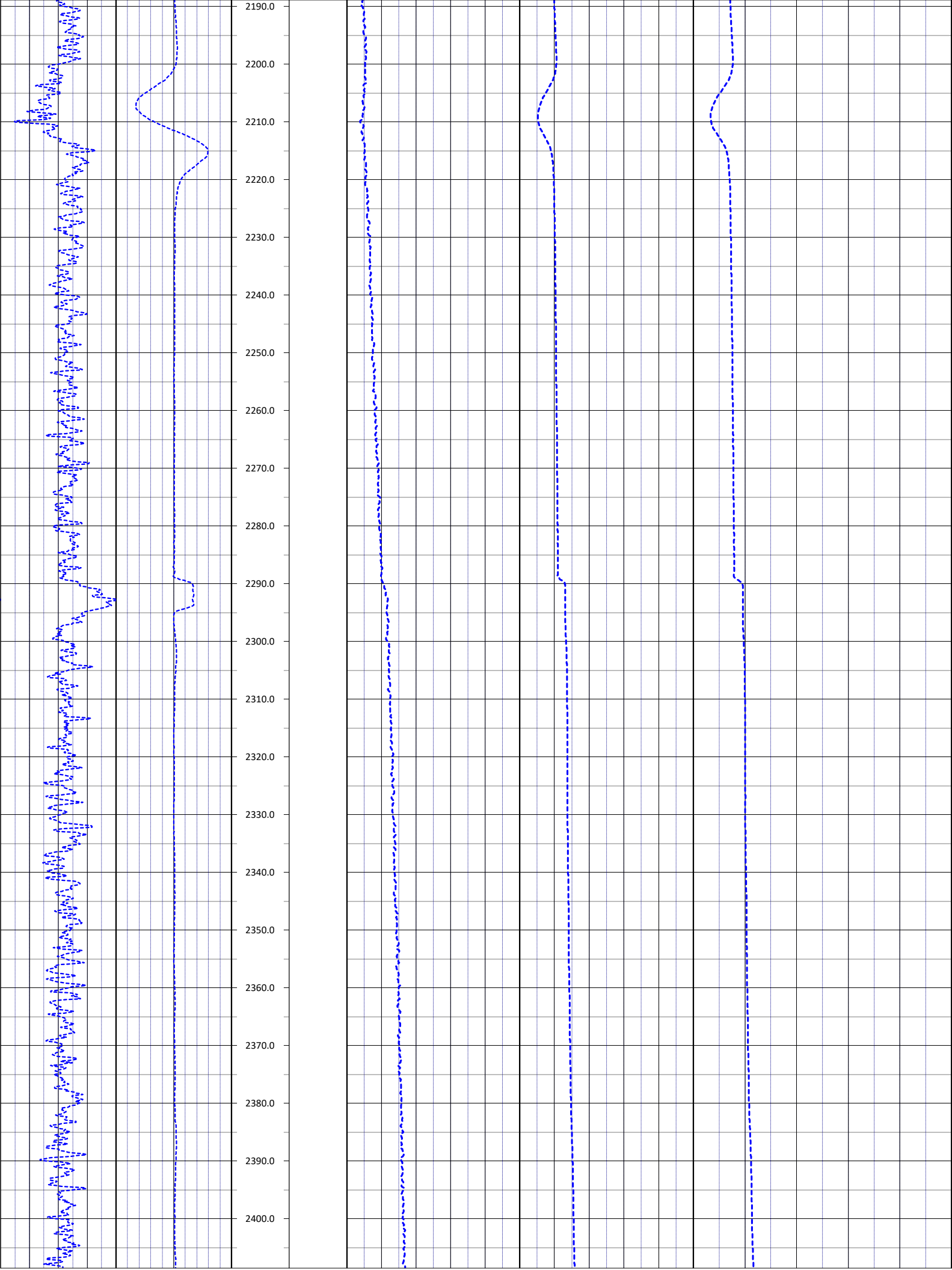
DRILLING MEASURED FROM:

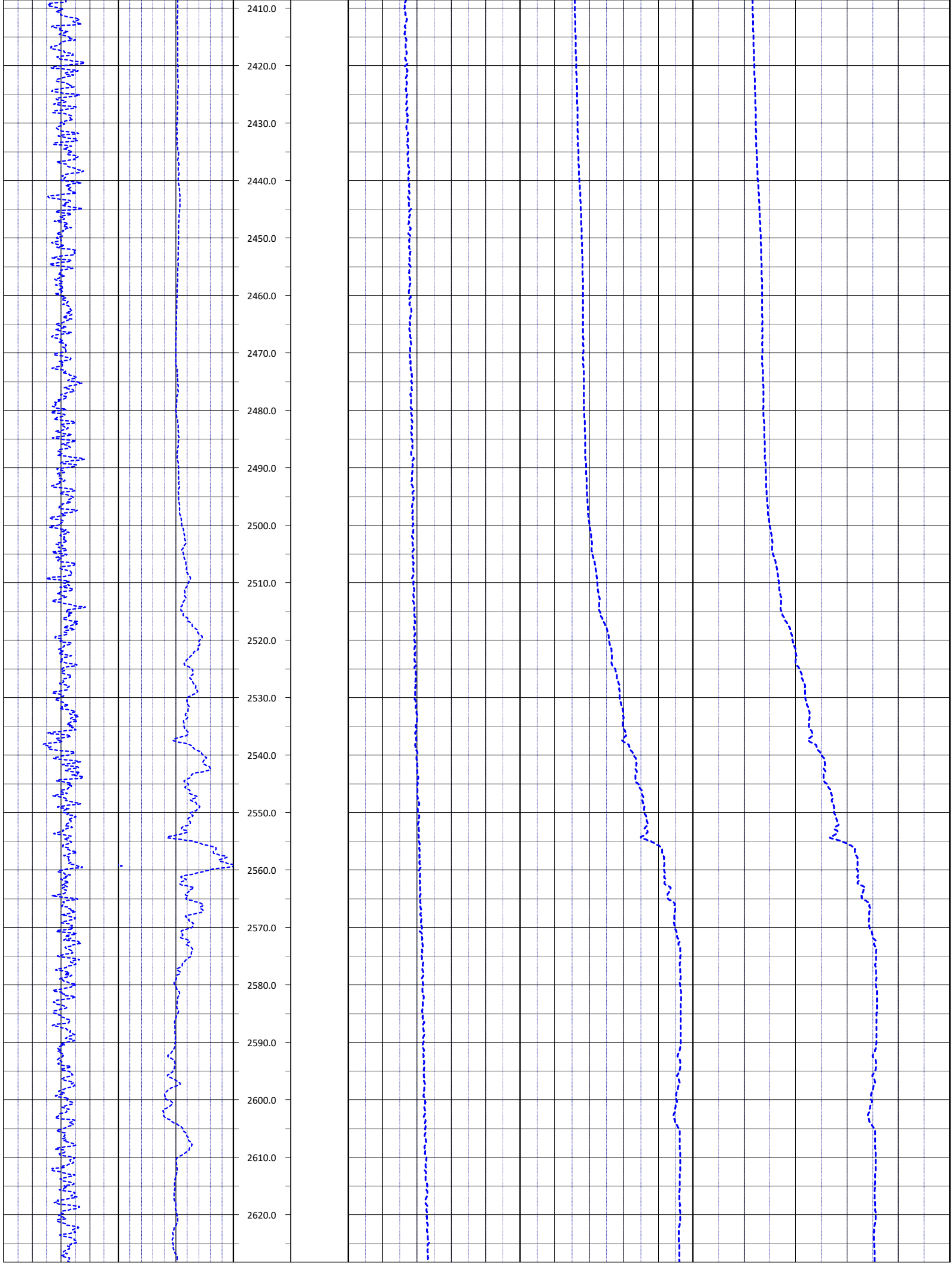
DATE	28 Nov 17	TYPE FLUID IN HOLE	WATER
RUN No	1	LOGGING SPEED (FT/MIN)	35
TYPE LOG	FLUID COND & TEMP	TROLLING DIRECTION	DOWN
		PUMPING RATE (GPM)	30
DEPTH-DRILLER	3200		
DEPTH-LOGGER	3200		
DRILLER	HUSS DRILLING		
RECORDED BY	RMB		
SRVC	RMBAKER LLC	API	N/A
WITNESSED BY	B. STORMONT	LIC	N/A

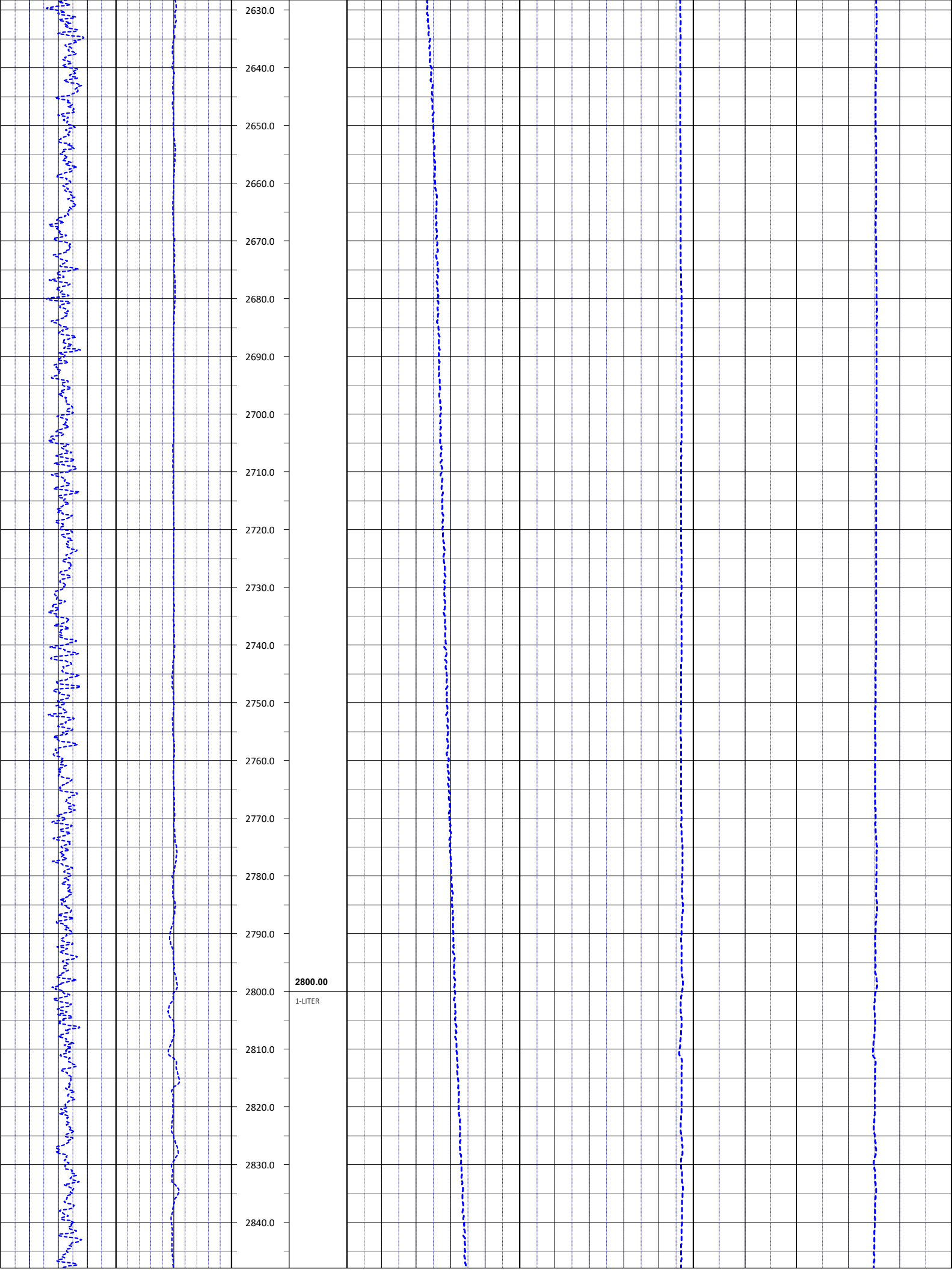
BOREHOLE RECORD				CASING RECORD			
RUN NO.	BIT	FROM	TO	SIZE	MAT.	FROM	TO
1	3.9	2290	3200	4	STEEL	0	2290
				5	STEEL	0	1780
				6	STEEL	0	1200

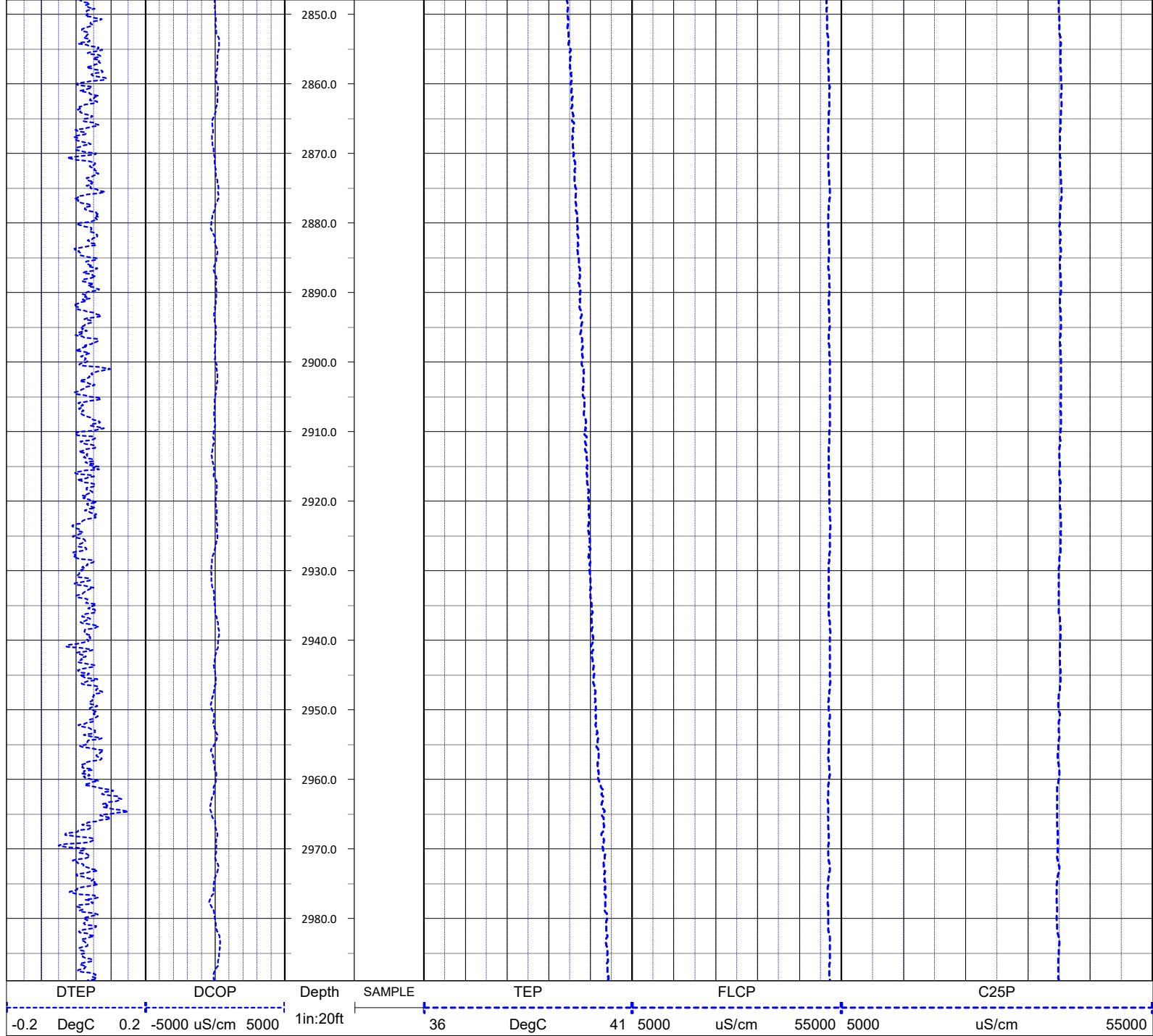
WATER QUALITY LOG CODES					
static fluid temperature	TEU	dynamic fluid conductivity	FLCP	caliper	CAL
dynamic fluid temperature	TEP	static differential cond.	DCOU	repeat designation	R
static differential temperature	DTEU	dynamic differential cond.	DCOP	natural gamma	GAMM
dynamic differential temp.	DTEP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







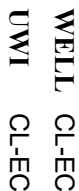




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END OF LOG



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.

CMF	SWFWMID
OC	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					

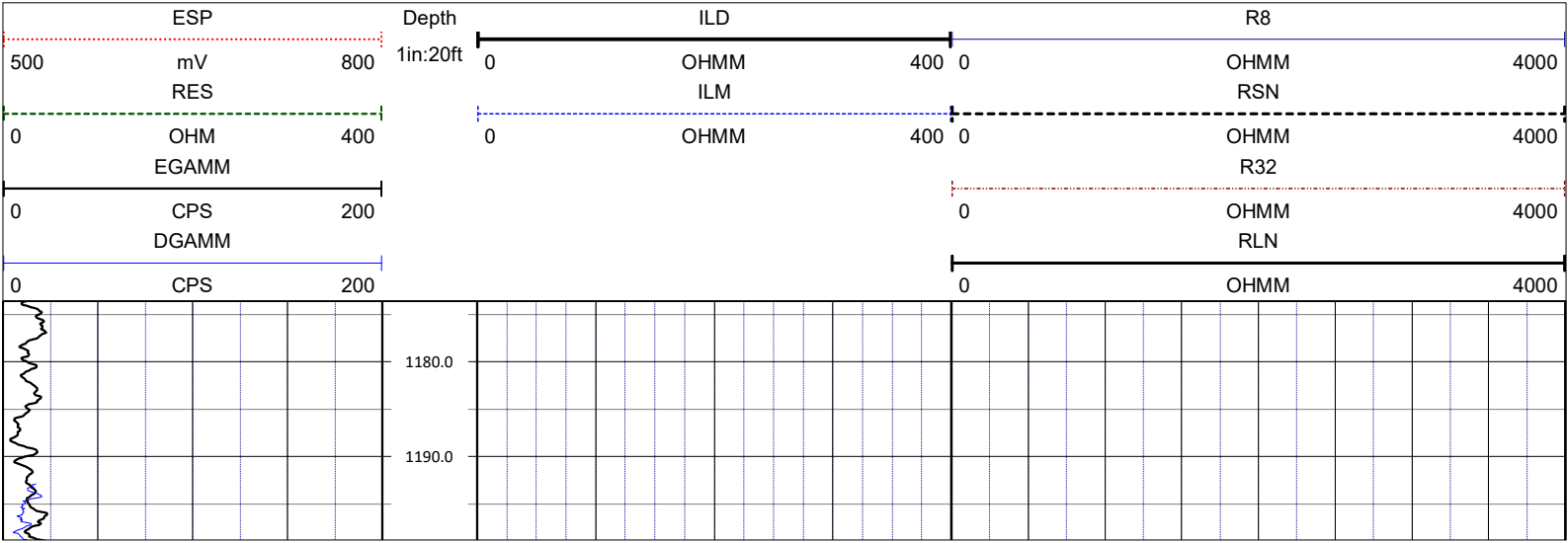
MEASURED FROM: GROUND SURFACE

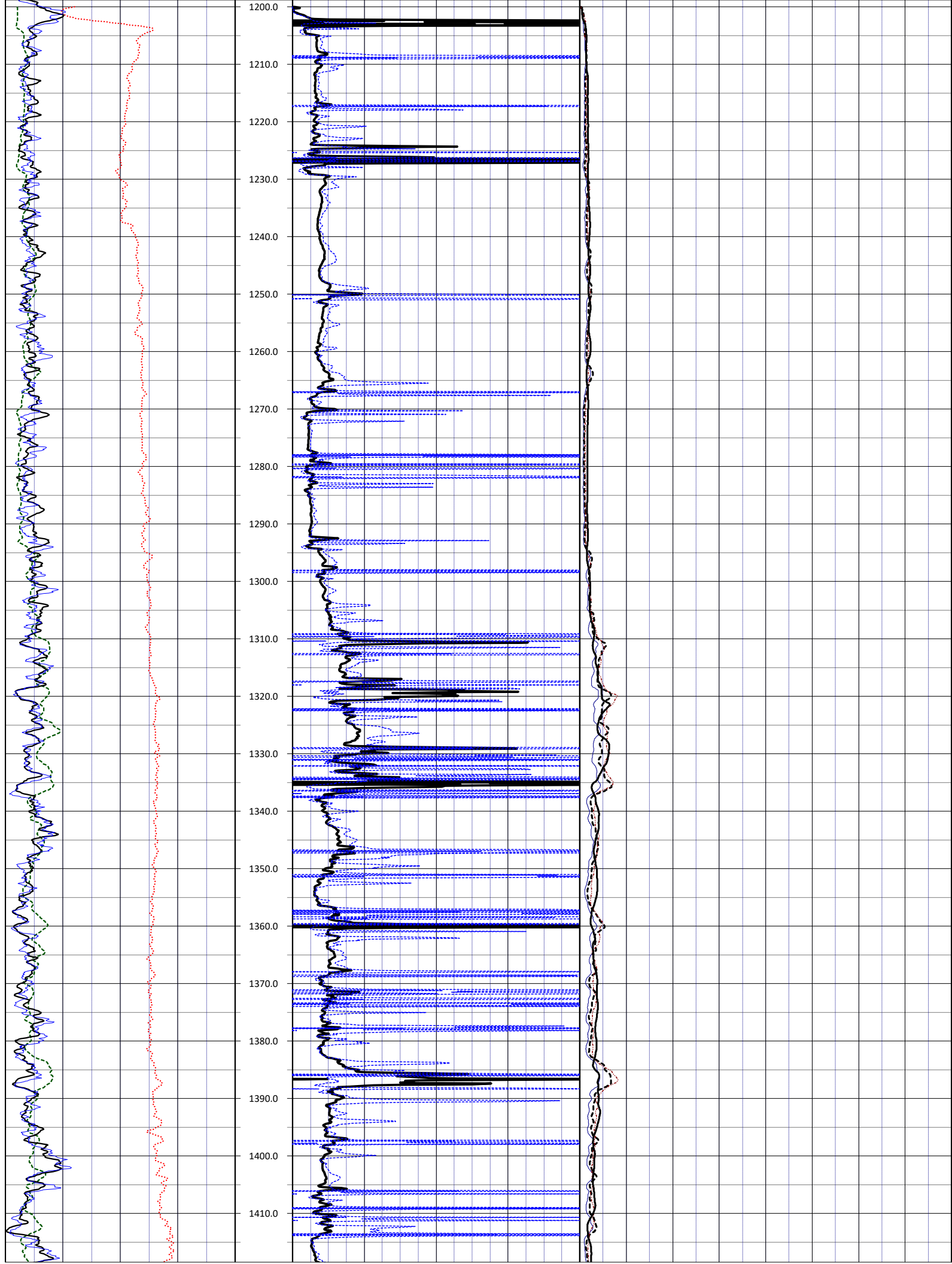
ILLING MEASURED FROM:

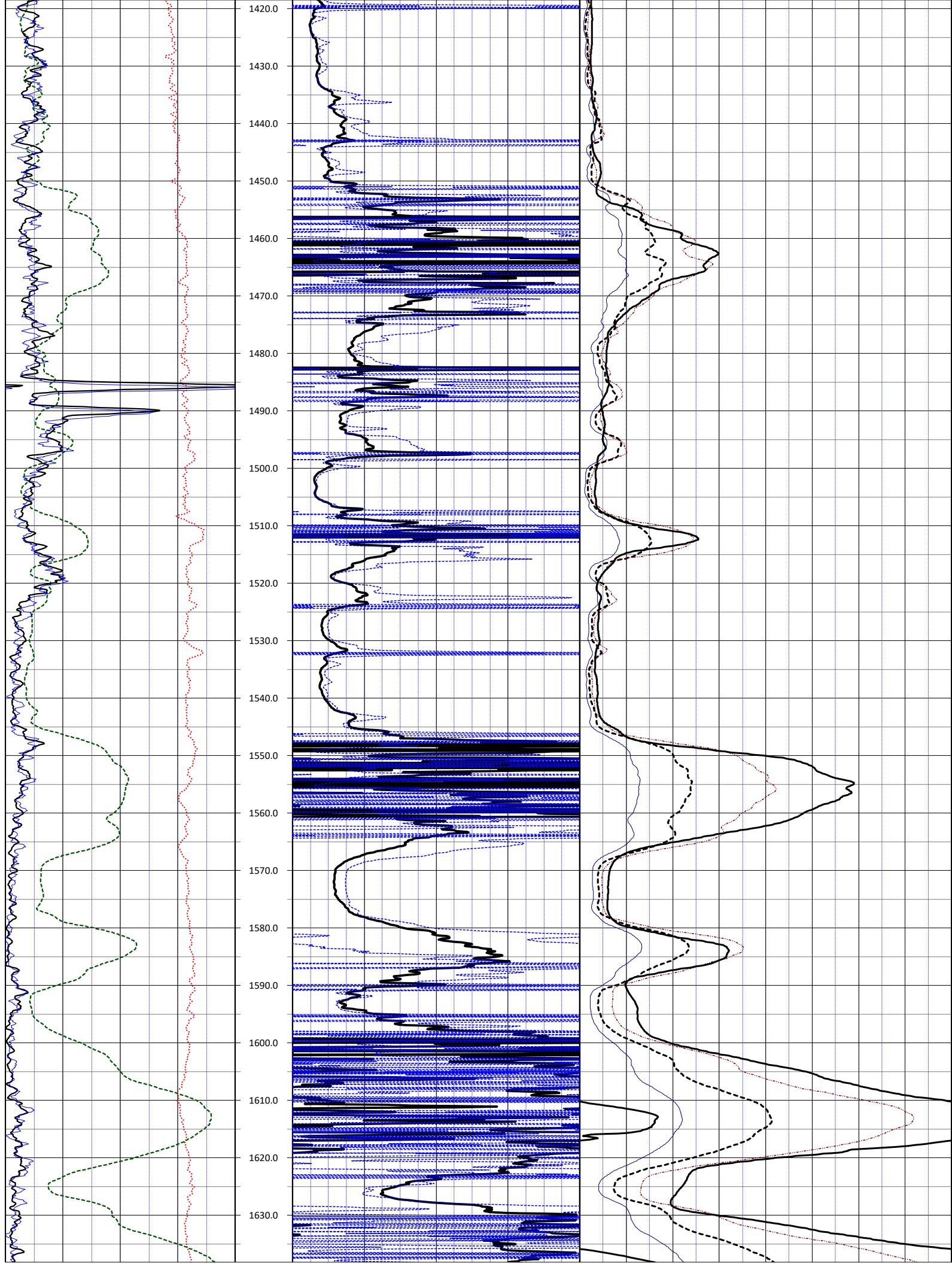
DATE	16 Jun 17	TYPE FLUID IN HOLE	WATER
IN No	1	LOGGING SPEED (FT/MIN)	35
PE LOG	ELECTRIC+DUIN	TROLLING DIRECTION	UP
		PUMPING RATE (GPM)	N/A
PTH-DRILLER	2080		
PTH-LOGGER	2079		
ILLER	HUSS DRILLING		
CORDED BY	RMB		
V/C	RIMBAKER LLC	API	N/A
FINISHED BY	B. STORMONT	LIC	N/A

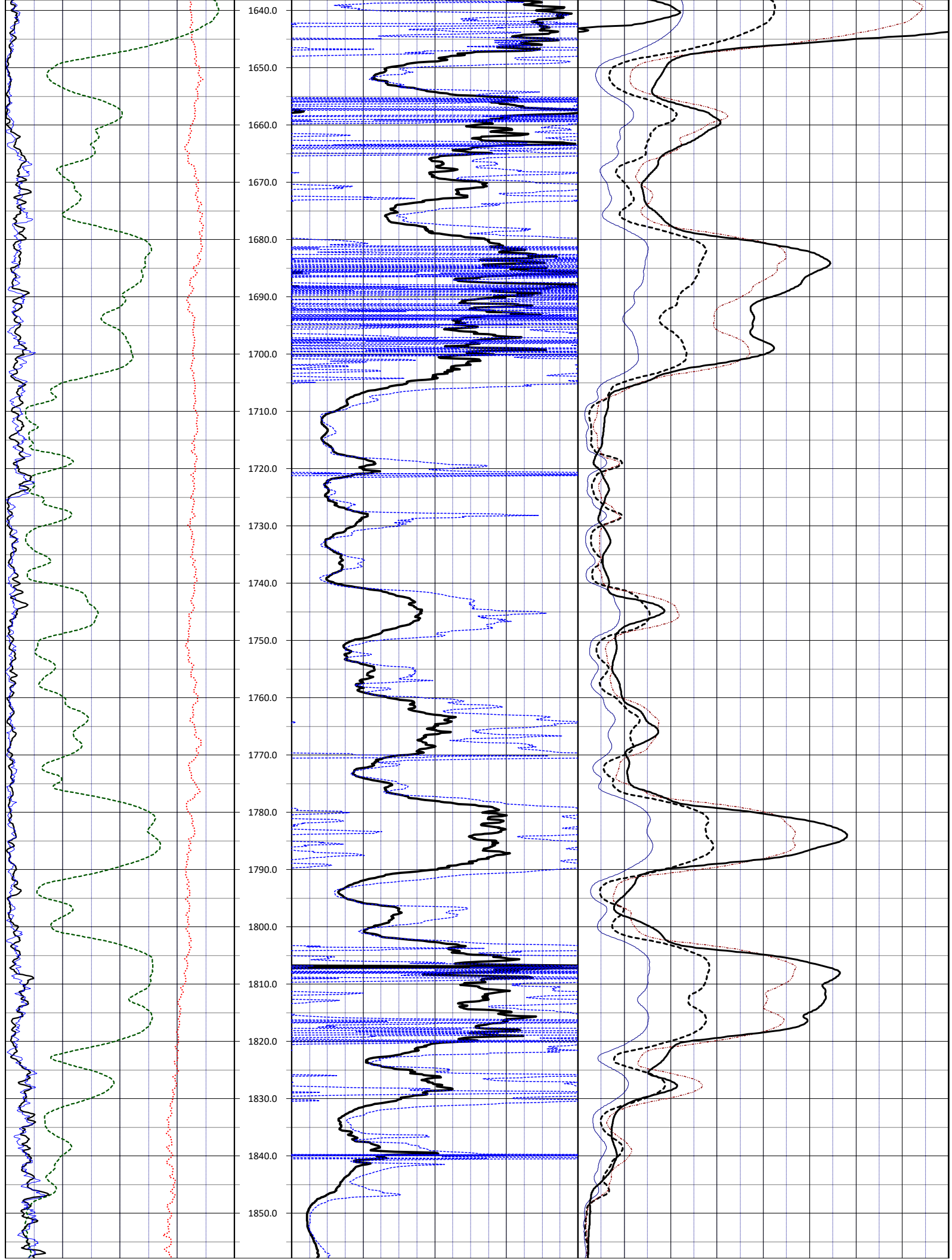
N	BOREHOLE RECORD	CASING RECORD
---	-----------------	---------------

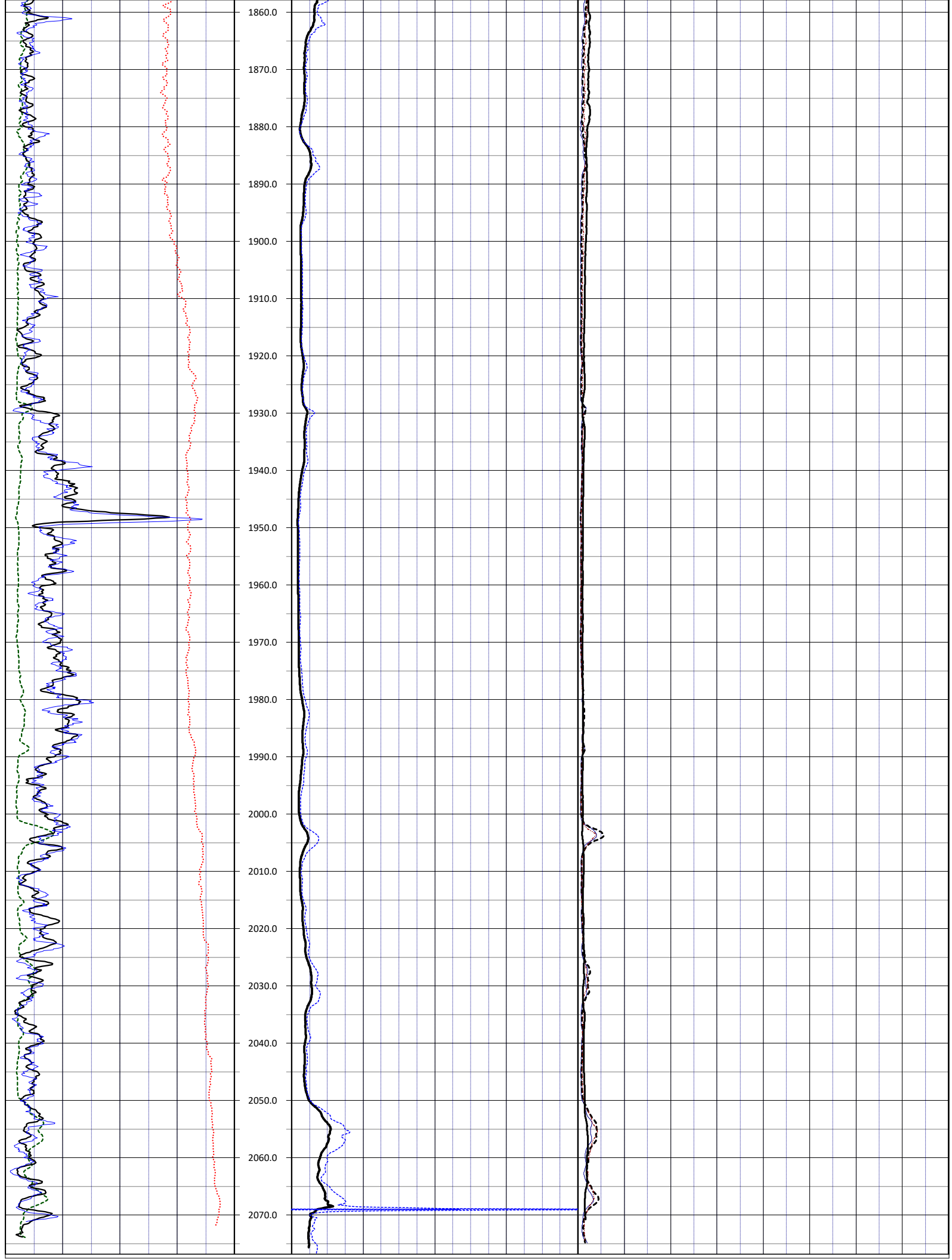
	FROM	TO	SIZE	MAT.	FROM	TO
3.8	1200	2080	4	STEEL	0	1200

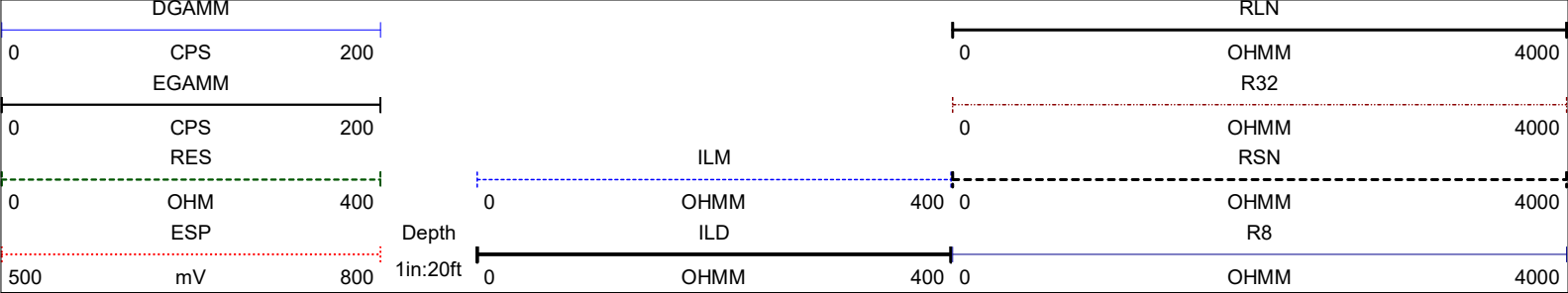
[illegible]











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END OF LOG



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Geology and Geophysics

WELL CL-EC
UWI CL-EC

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

LOG STAGE 2290-3000

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	WGS84	NATURAL GAMMA
SEC		DUAL INDUCTION
TWP		ELECTRIC
RGE		FLUID RESISTIVITY
		FLUID CONDUCTIVITY
		SONIC
		VIDEO

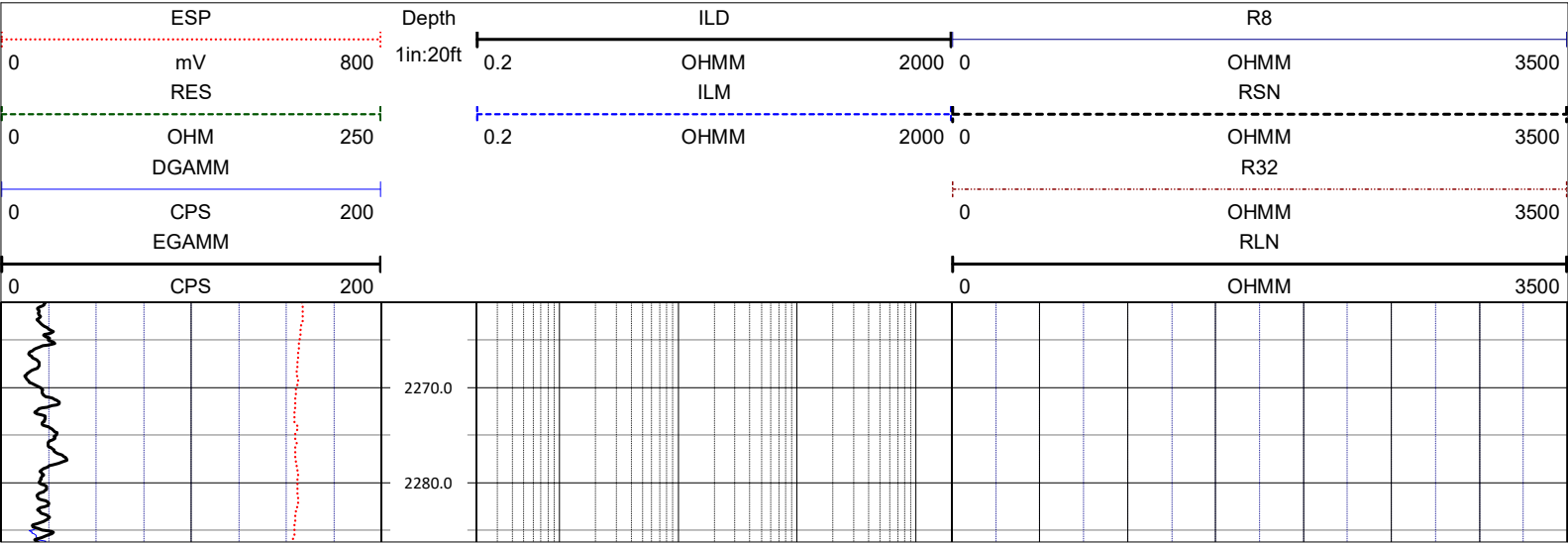
PERMANENT DATUM:

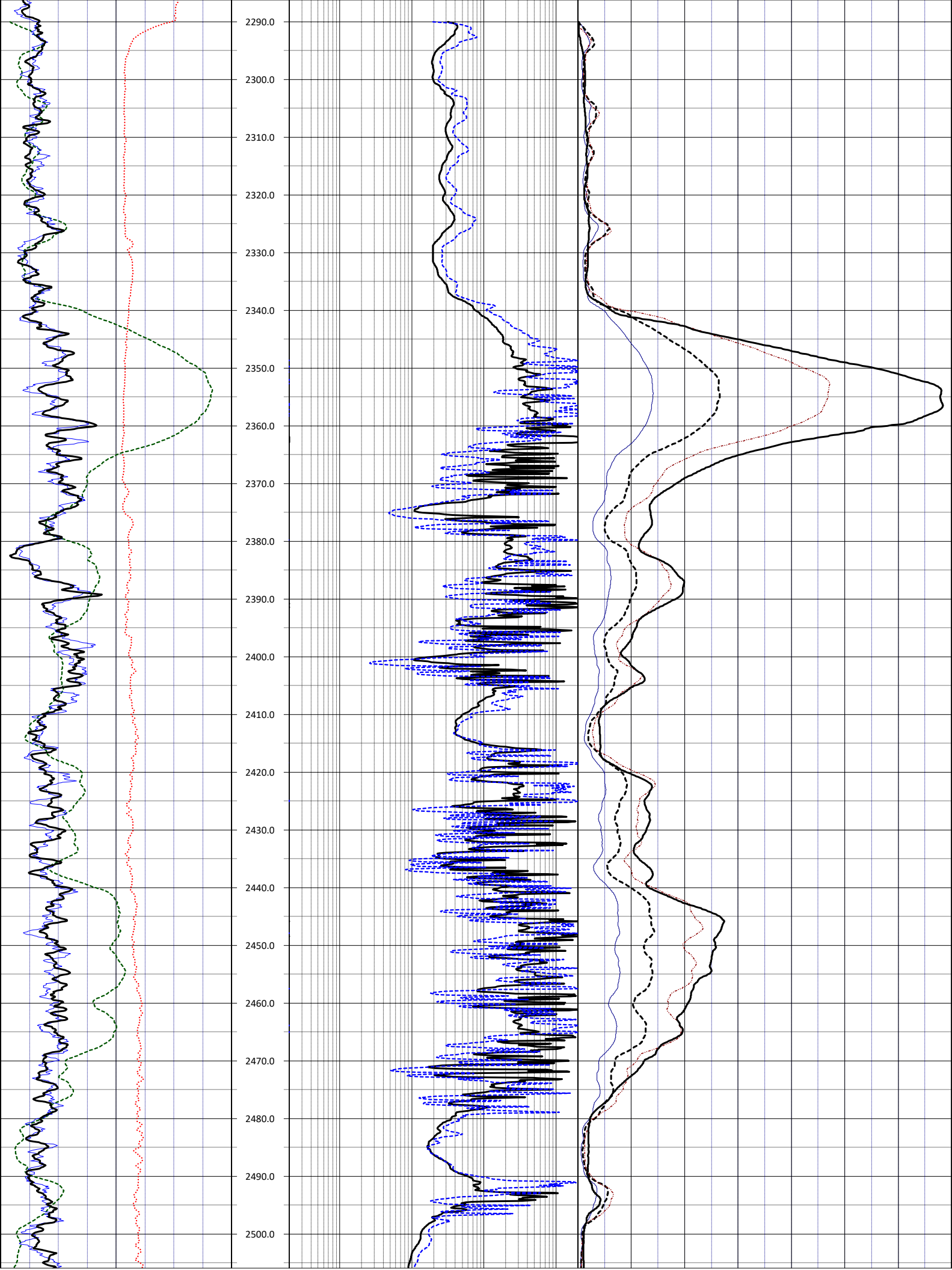
LOG MEASURED FROM: GROUND SURFACE

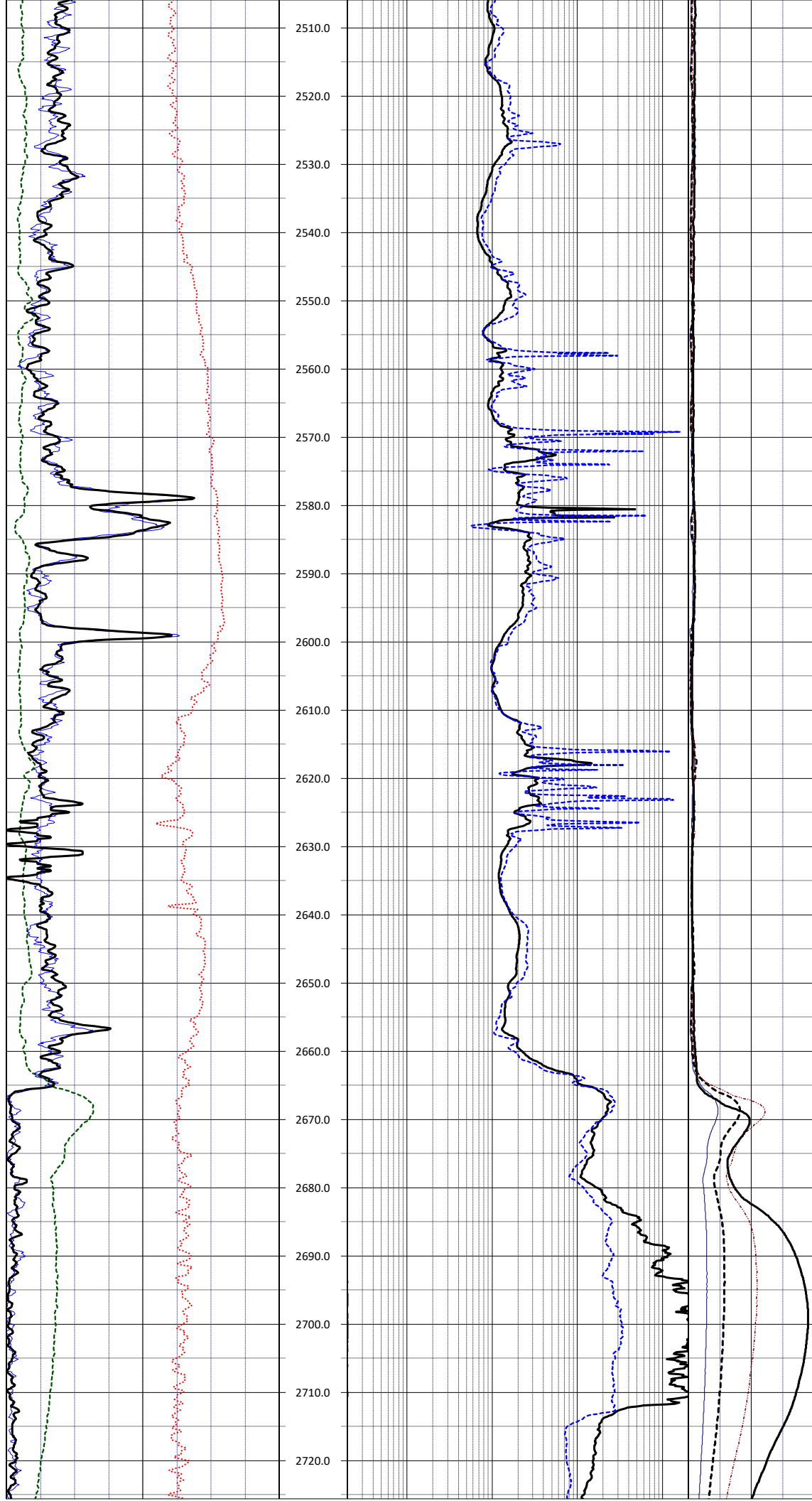
DATE	29 Nov 17	TYPE FLUID IN HOLE	WATER
RUN No	1	LOGGING SPEED (FT/MIN)	30
TYPE LOG	DUIN+ELECTRIC	TROLLING DIRECTION	UP
		PUMPING RATE (GPM)	N/A
DEPTH-DRILLER	3200		
DEPTH-LOGGER	3200		
DRILLER	HUSS DRILLING		
RECORDED BY	RMB		
SRVC	RMBAKER LLC	API	N/A
WITNESSED BY	B. STORMONT	LIC	N/A

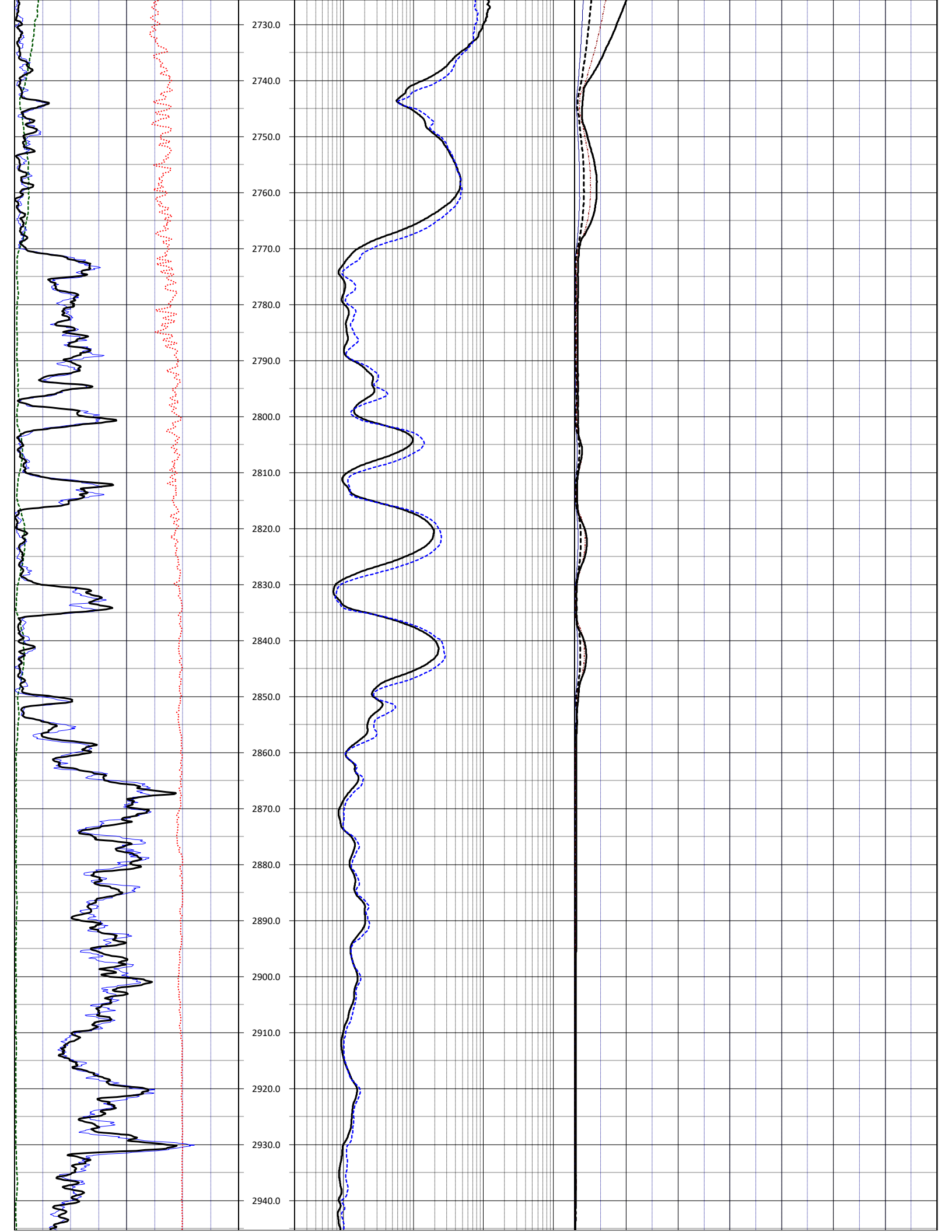
BOREHOLE RECORD				CASING RECORD			
RUN NO.	BIT	FROM	TO	SIZE	MAT.	FROM	TO
1	3.9	2290	3200	4	STEEL	0	2290
				5	STEEL	0	1780
				6	STEEL	0	1200

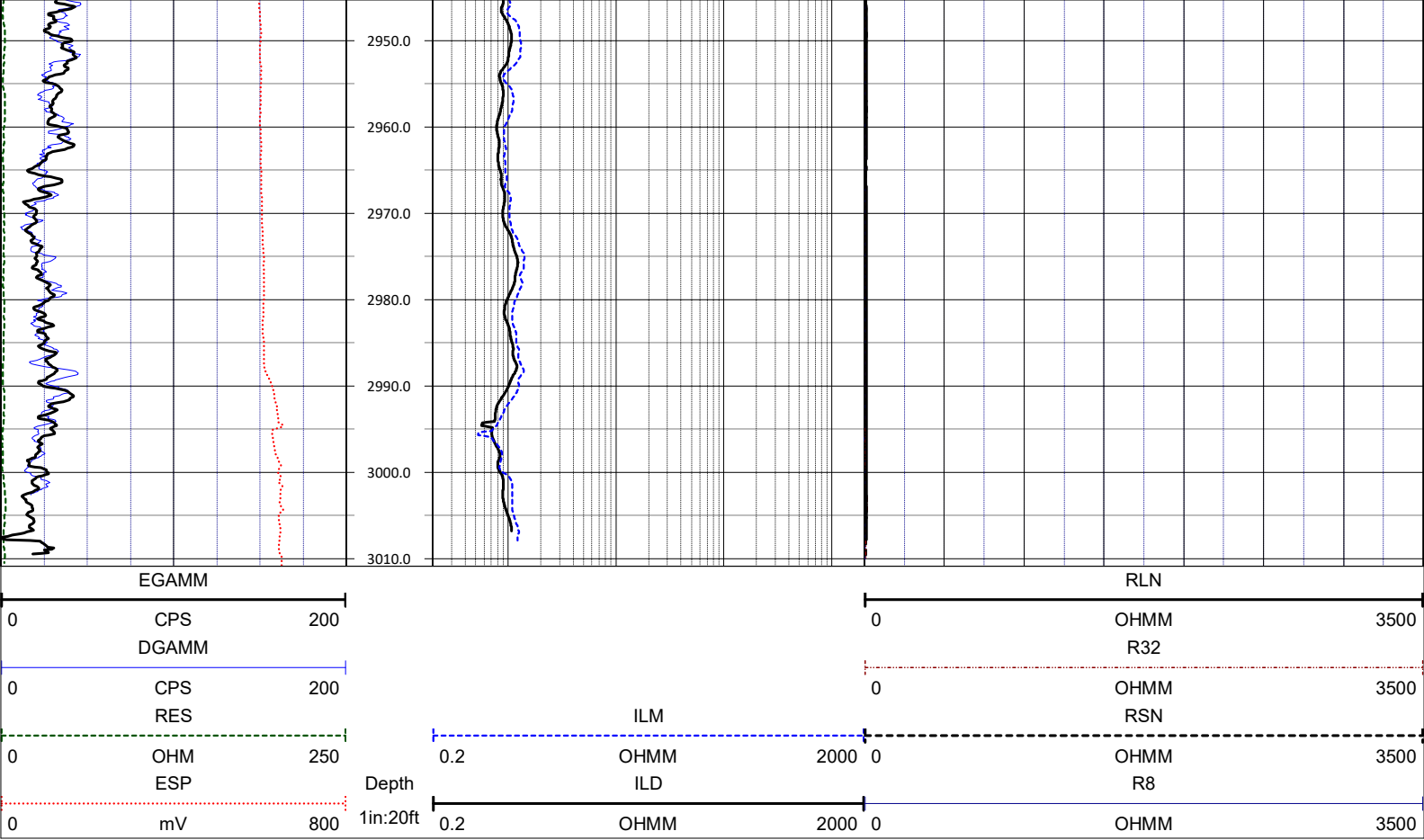
LOG CODES					
3-arm caliper	CAL	long normal resistivity	RLN	deep induction conductivity	IDC
natural gamma (CPS)	GAMM	8 inch resistivity	R8	shallow induction conductivity	ISC
spontaneous potential	ESP	32 inch resistivity	R32	sonic interval velocity	DT
single point resistance	RES	deep induction resistivity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











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LOG STAGE 2600-3000

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www.rmbaker.com

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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:

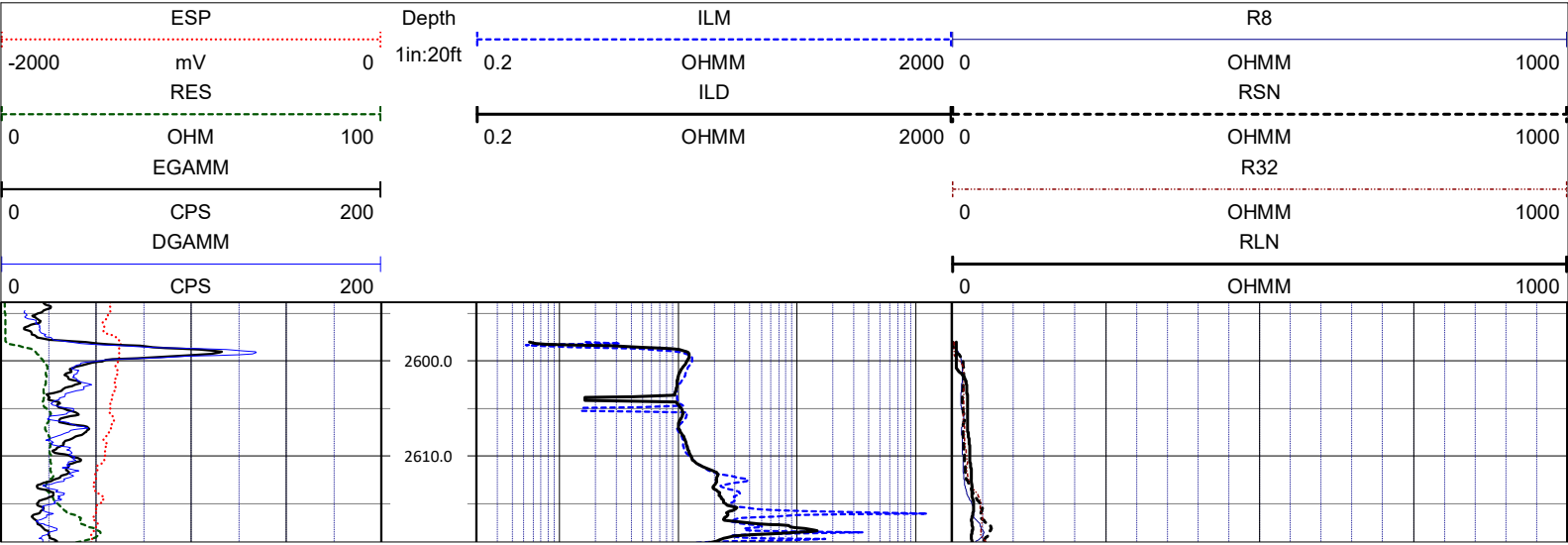
LOG MEASURED FROM: GROUND SURFACE

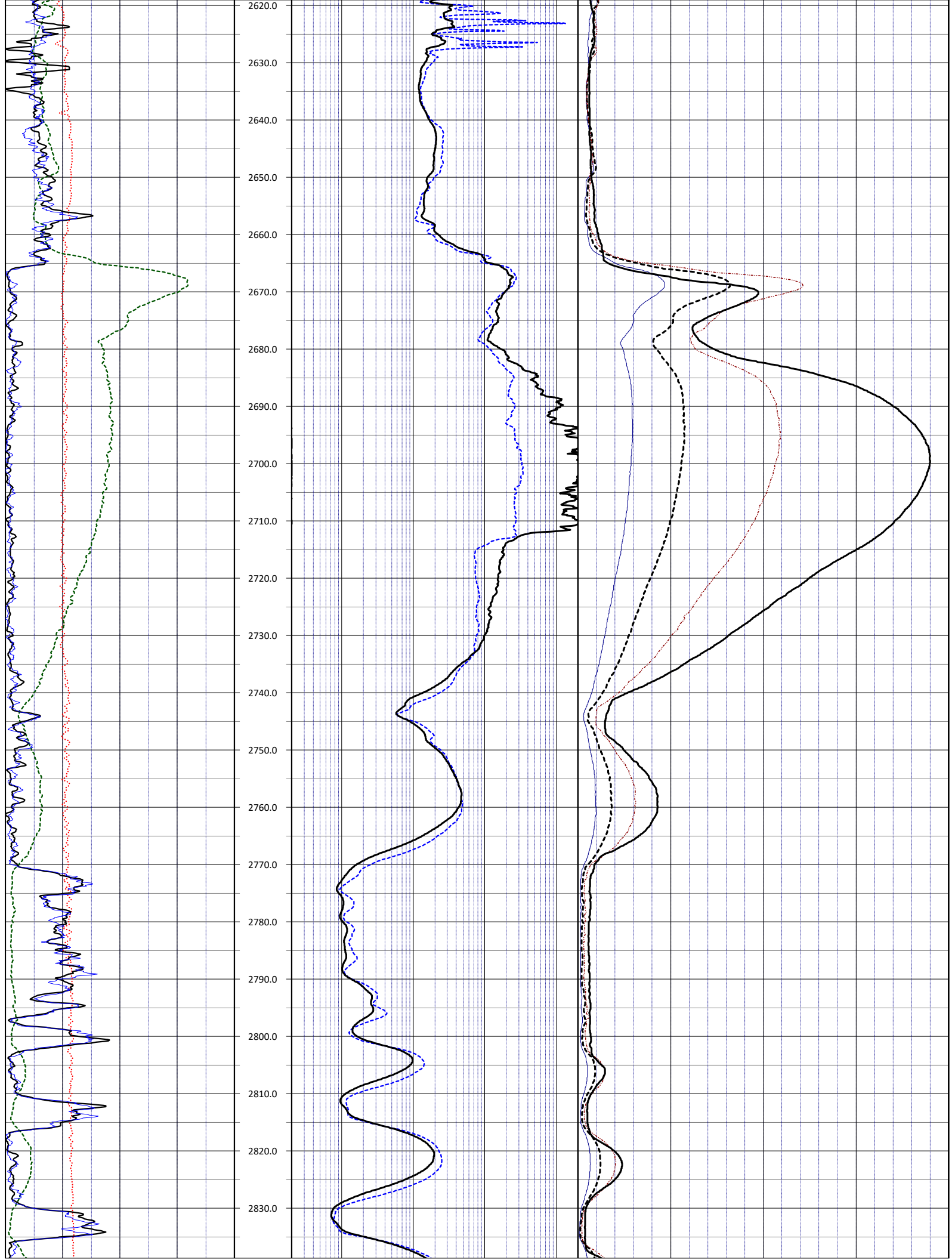
DRILLING MEASURED FROM:

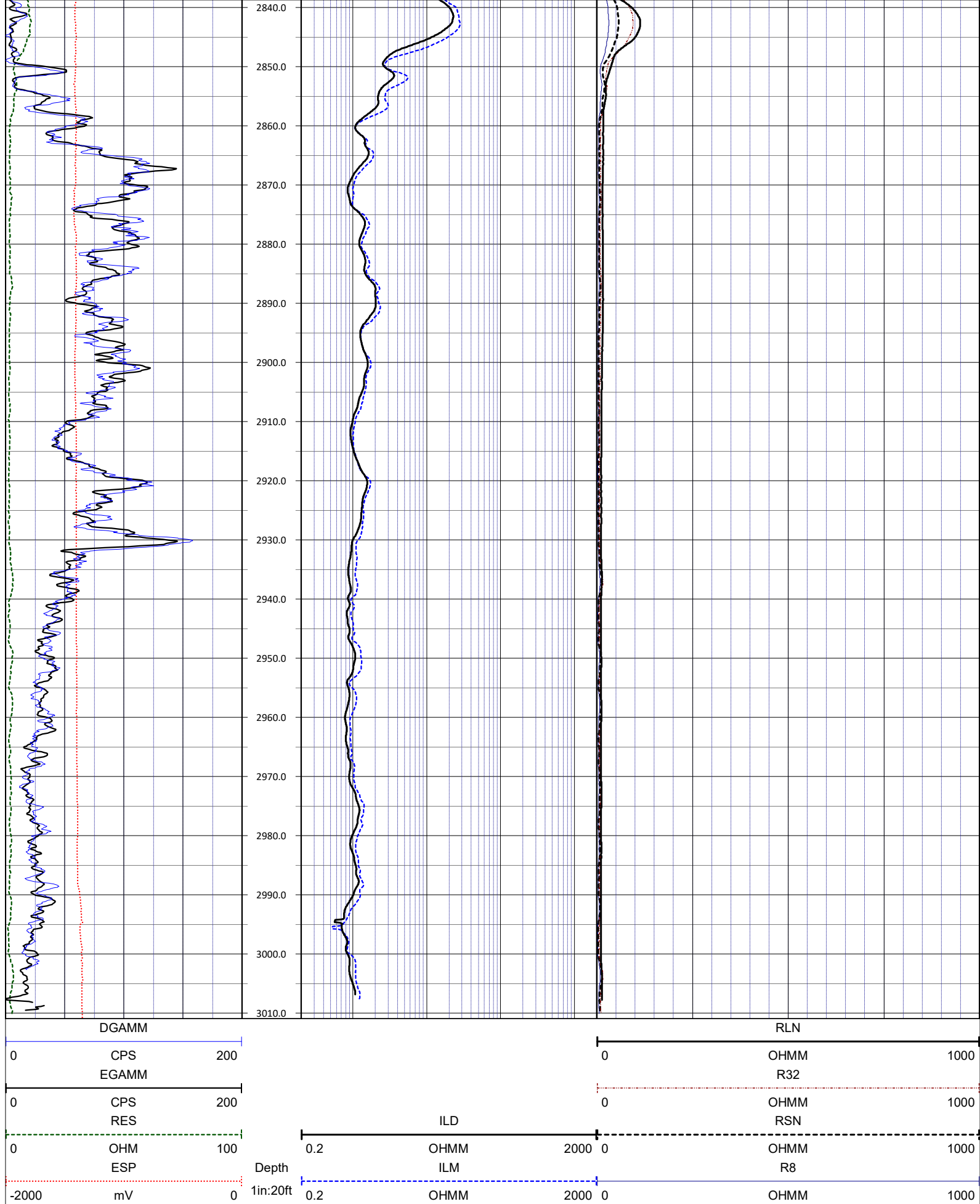
DATE	15-16 Nov 17	TYPE FLUID IN HOLE	WATER
RUN No	1	LOGGING SPEED (FT/MIN)	30
TYPE LOG	DUIN+ELECTRIC	TROLLING DIRECTION	UP
		PUMPING RATE (GPM)	N/A
DEPTH-DRILLER	3200		
DEPTH-LOGGER	3200		
DRILLER	HUSS DRILLING		
RECORDED BY	RMB		
SRVC	RMBAKER LLC	API	N/A
WITNESSED BY	M. JOHNSTON	LIC	N/A

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







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.

END OF LOG
