



COMPENSATED DENSITY NEUTRON LOG

Company	PATTERSON ENERGY		
Well	T.S. LEIKER #16		
Field	LEIKER EAST		
County	ELLIS	State	KANSAS
Location:	API # : 15-051-27144		Other Services
1233' FNL & 2210' FWL		ML DIL	
Permanent Datum	SEC 13	TWP 15S	RGE 18W
Log Measured From	KB 8' AGL	Ground Level	Elevation 2002
Drilling Measured From	KB		Elevation K.B. 2010 D.F. 2008 G.L. 2002
Date	6/23/26		
Run Number	One		
Depth Driller	3843		
Depth Logger	3844		
Bottom Logged Interval	3824		
Top Log Interval	2650		
Casing Driller	8 5/8"@1175		
Casing Logger	1175		
Bit Size	7 7/8"		
Type Fluid in Hole	Chemical		
Density / Viscosity	9.2/56		
pH / Fluid Loss	10/9.6		
Source of Sample	Pit		
Rm @ Meas. Temp	.9@72degf		
Rmf @ Meas. Temp	.68@72degf		
Rmc @ Meas. Temp	1.1@72degf		
Source of Rmf / Rmc	Calculated		
Rm @ BHT	.60@108degf		
Time Circulation Stopped	1:30 PM		
Time Logger on Bottom	3:00 PM		
Maximum Recorded Temperature	108degf		
Equipment Number	T-605		
Location	Hays, KS.		
Recorded By	GUS PFANENSTIEL		
Witnessed By	JASON T. ALM		

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

183 SOUTH OUT OF HAYS TO NORFOLK RD. 2 1/4 MILE,
SOUTH INTO.

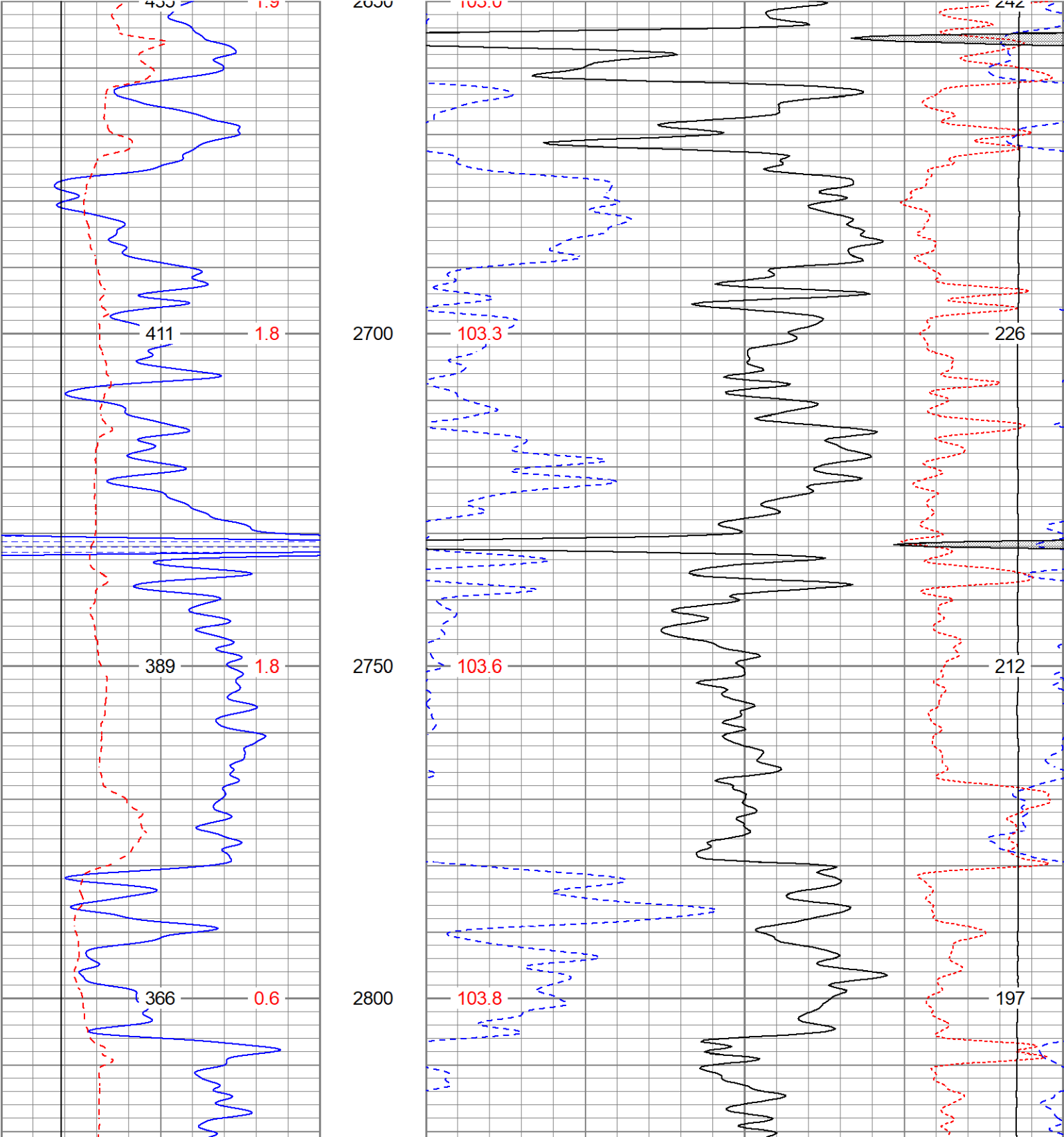
Thanks for using Gemini Wireline LLC
785-625-1182

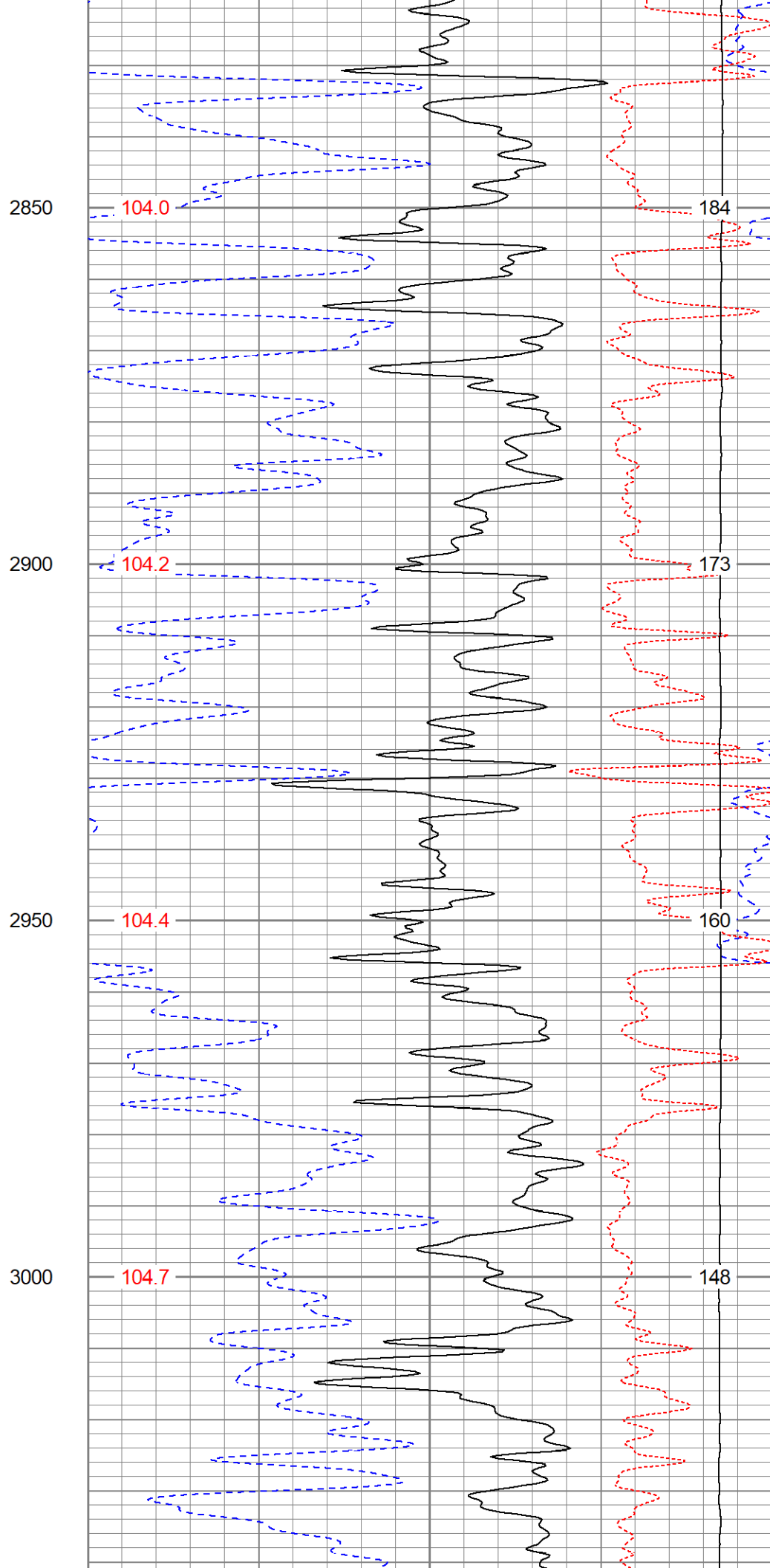
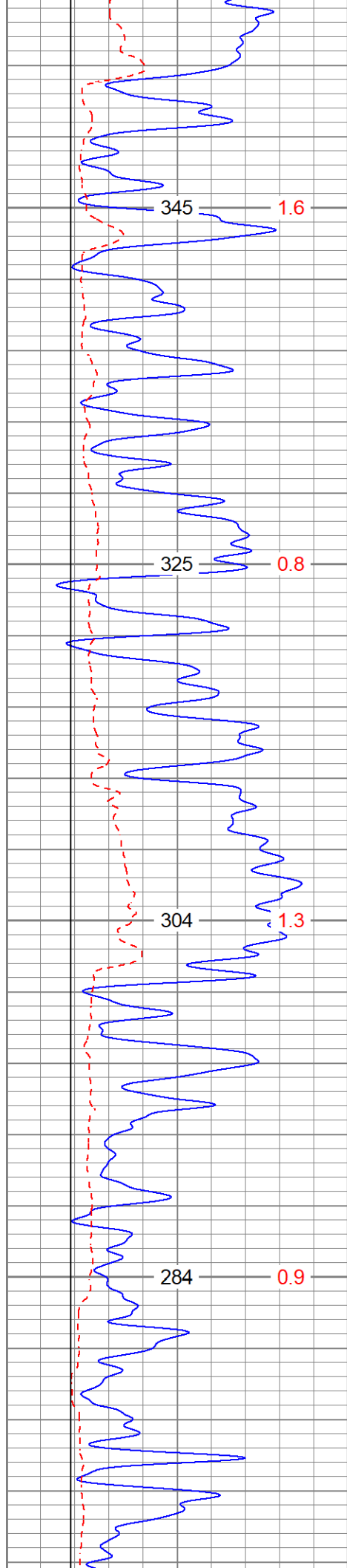


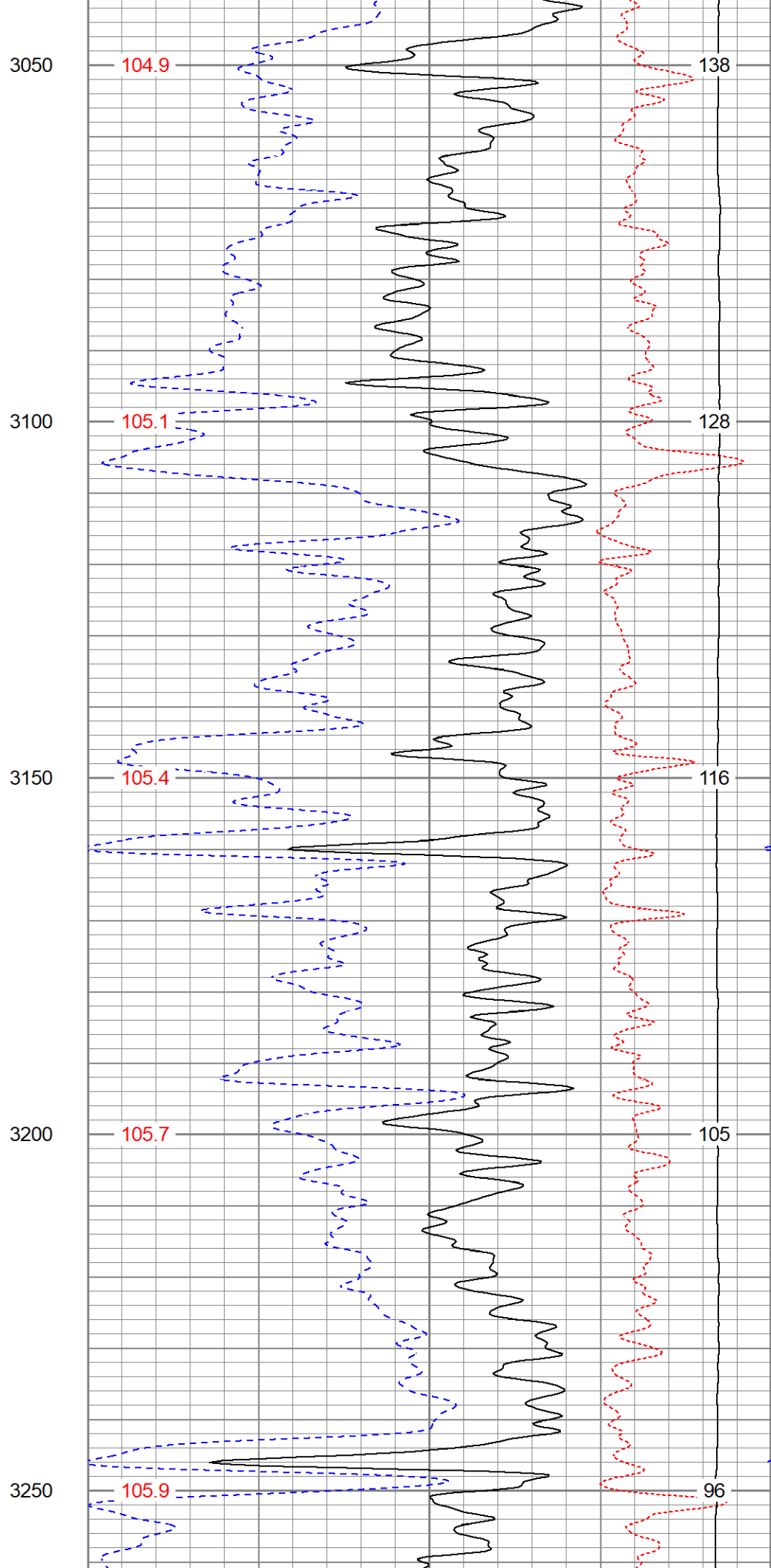
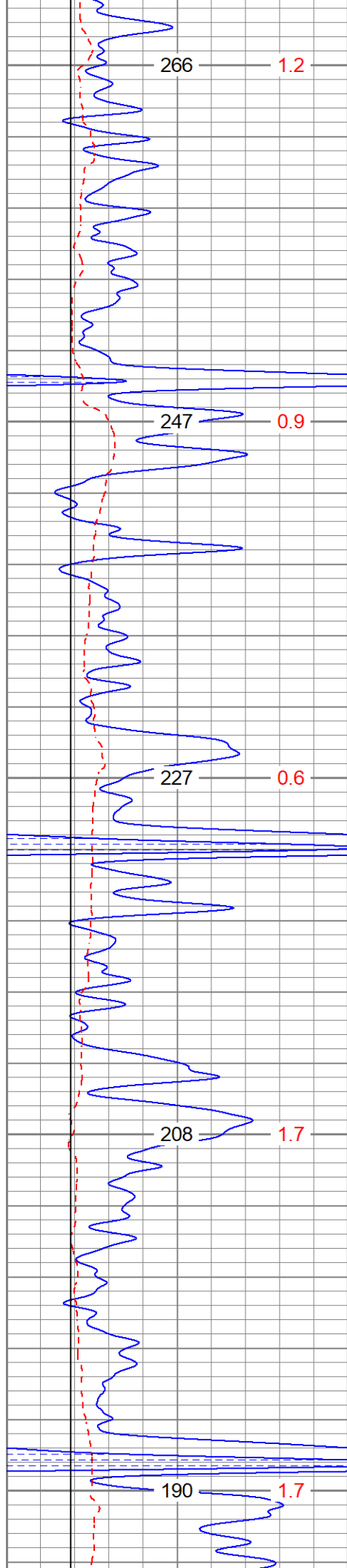
MAIN PASS

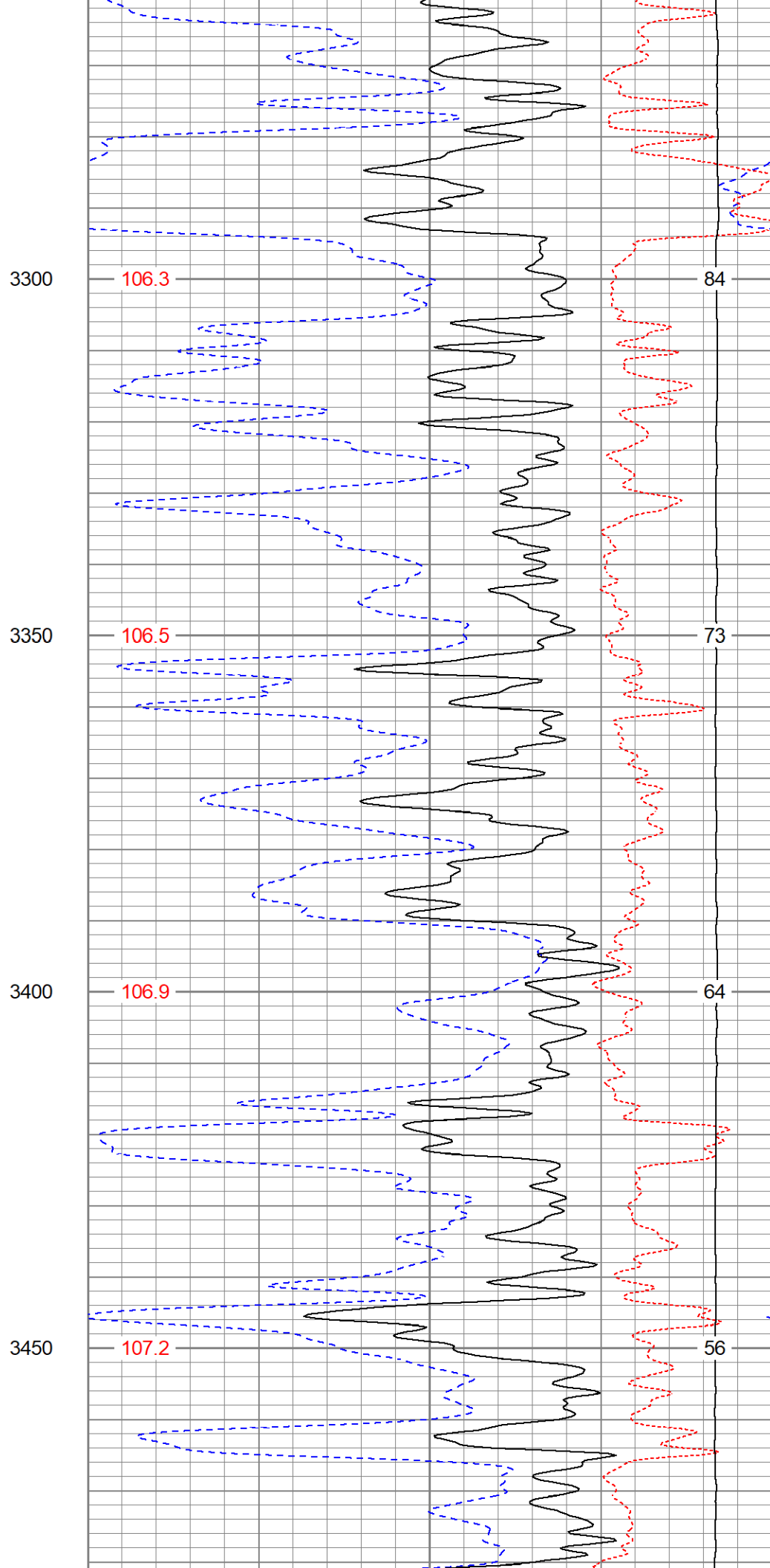
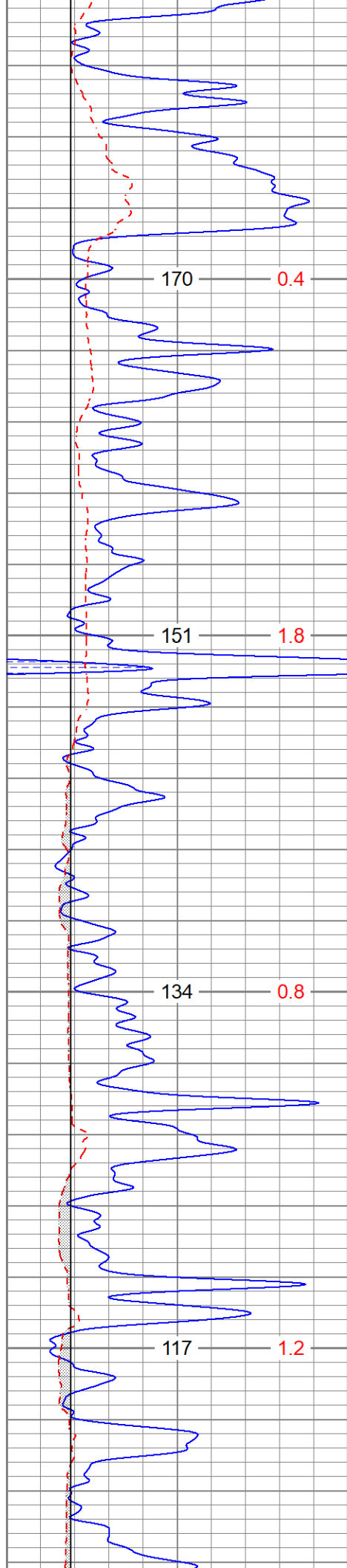
Database File	petsleiker#16oh.db		
Dataset Pathname	pass3.1		
Presentation Format	digital_kcdnl		
Dataset Creation	Tue Jun 23 17:03:48 2026		
Charted by	Depth in Feet scaled 1:240		

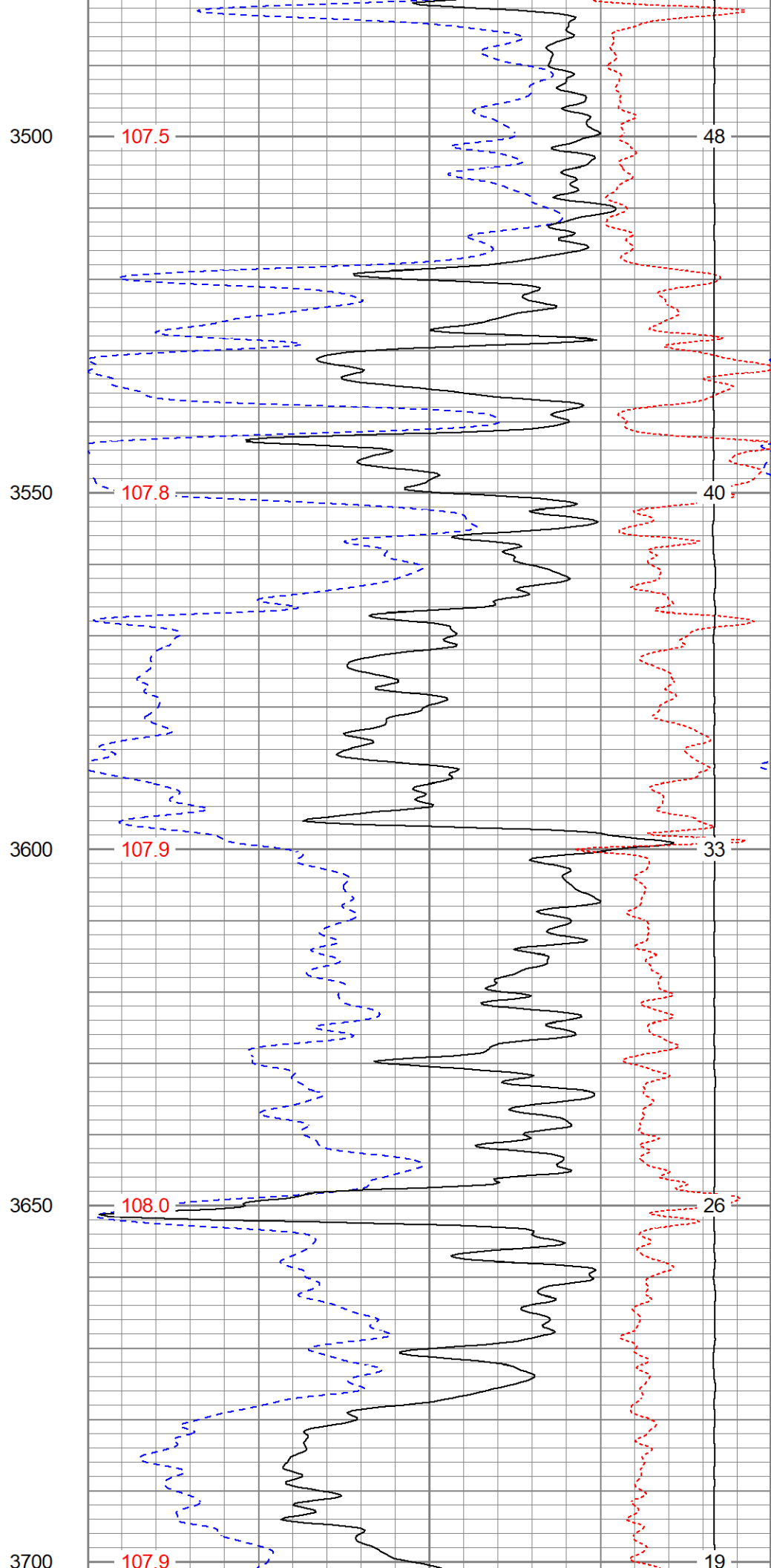
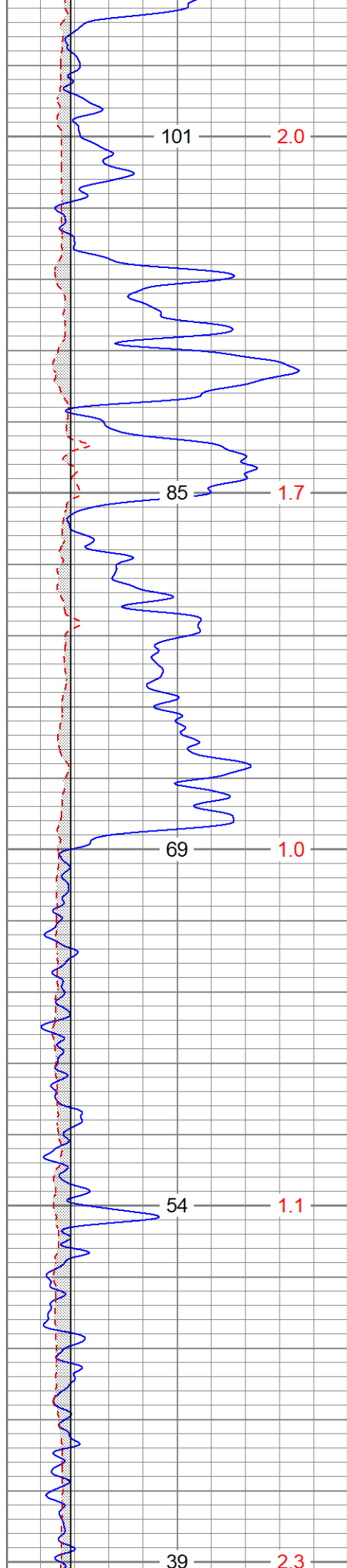
0GR (GAPI)150			30NPOR (pu)-10		
6DCAL (in)16			30DPOR (pu)-10		
6BOREID (in)16			70DPOR (pu)30		
TBHV (ft3)DEVI (deg)			TEMP (degF)-0.25RHOC (g/cc)0.25		
			8000LTEN (lb)0		
			ABHV (ft3)		

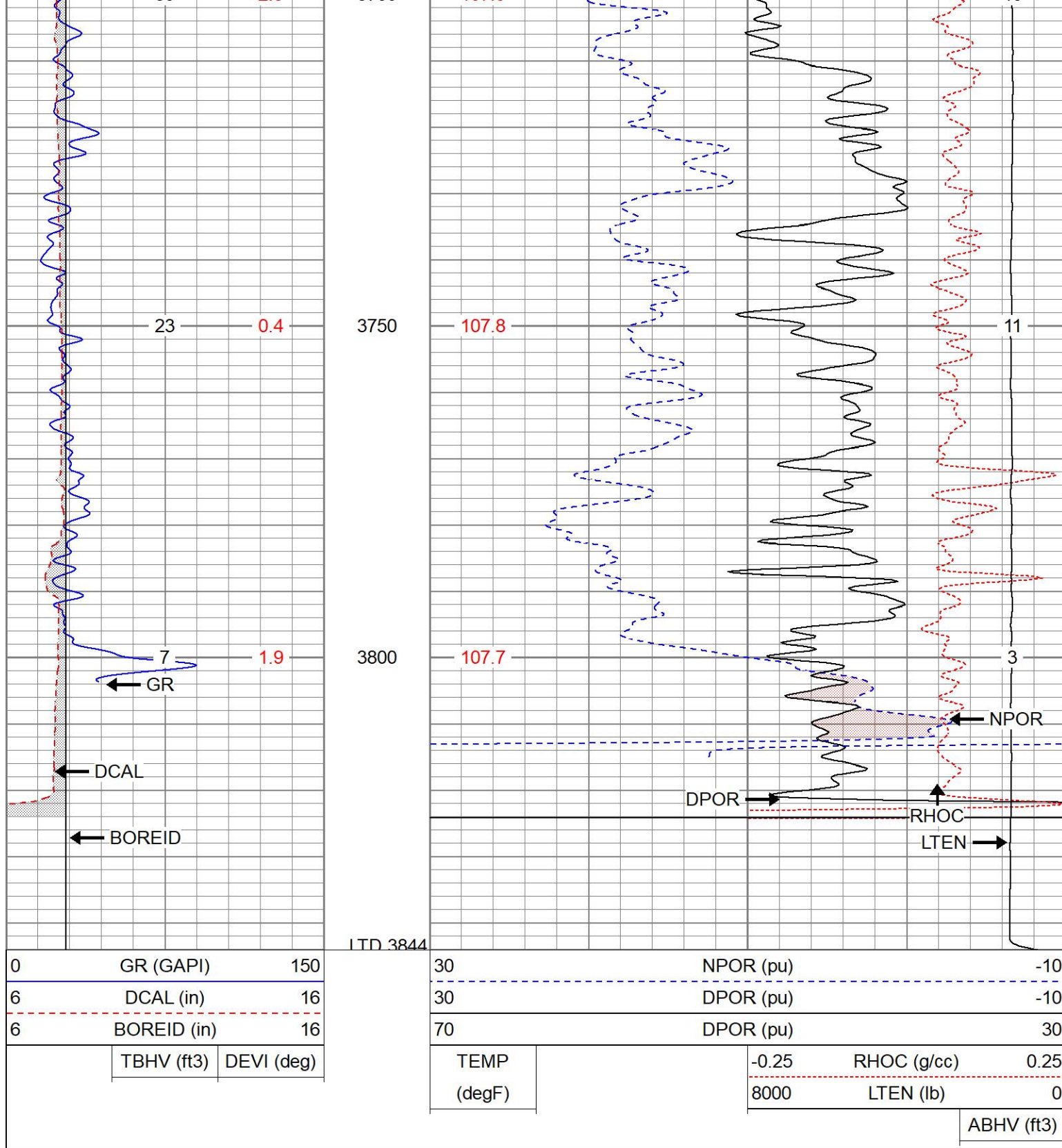










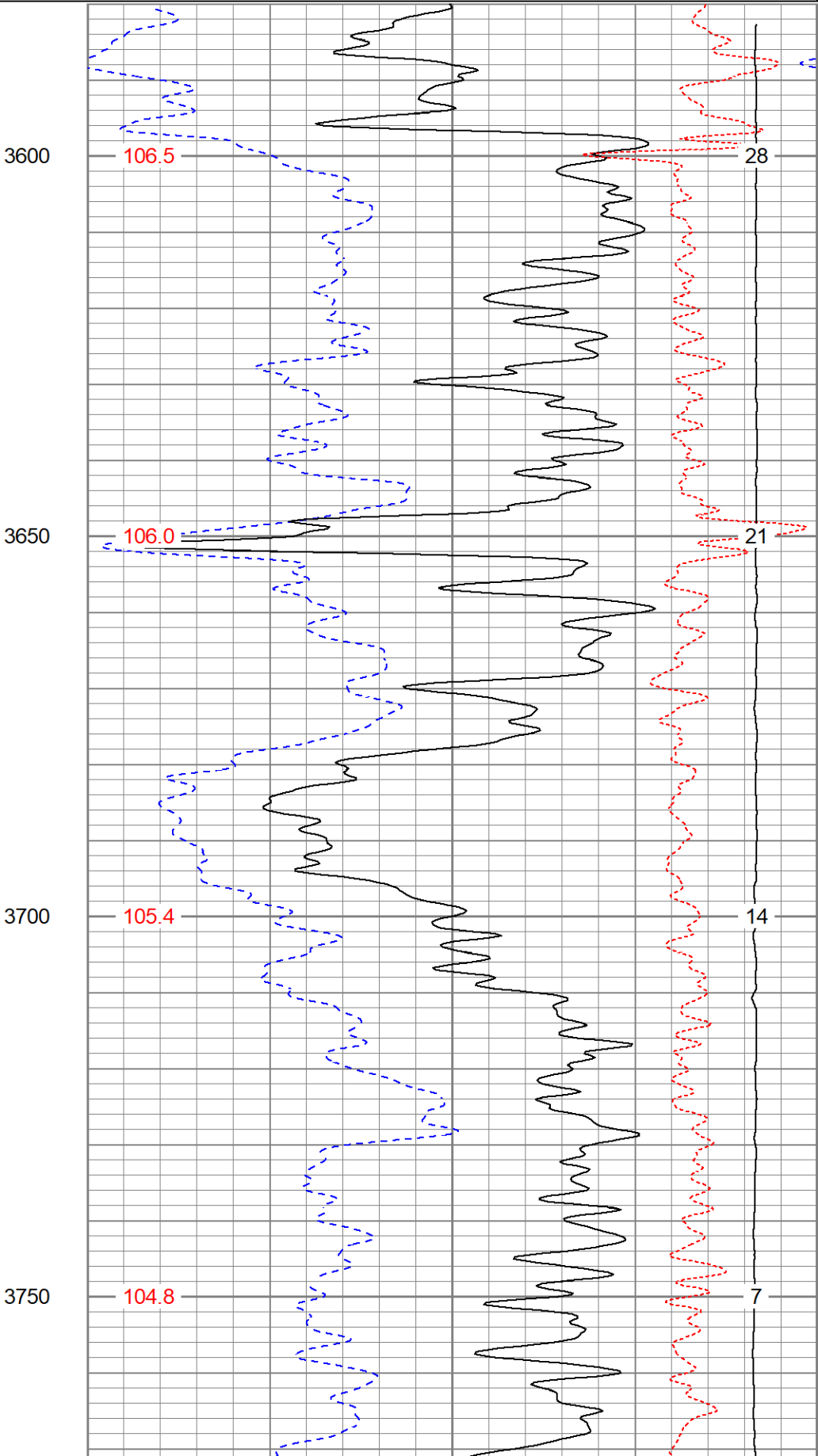
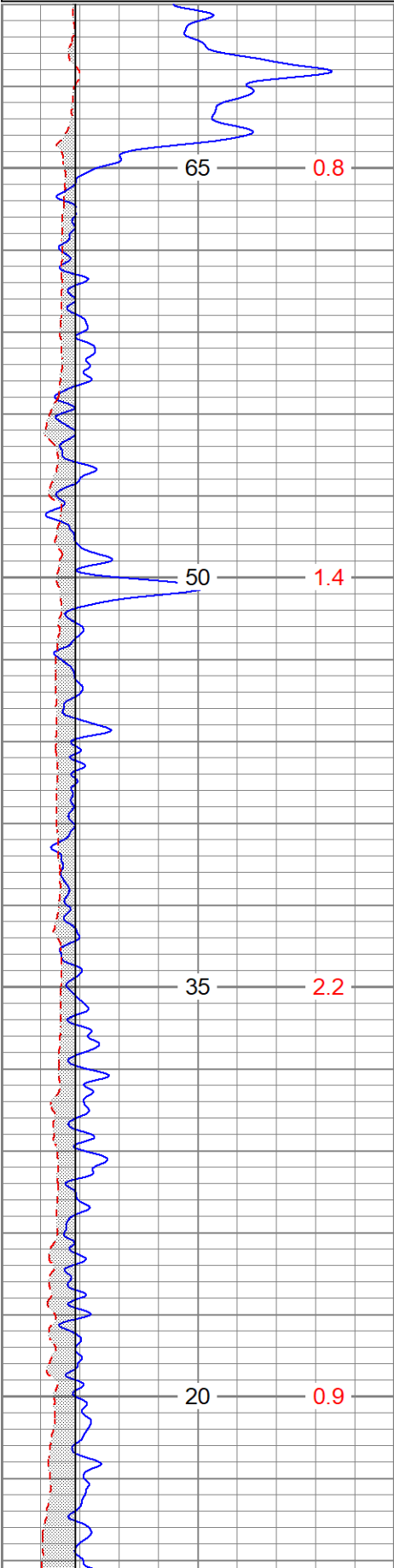


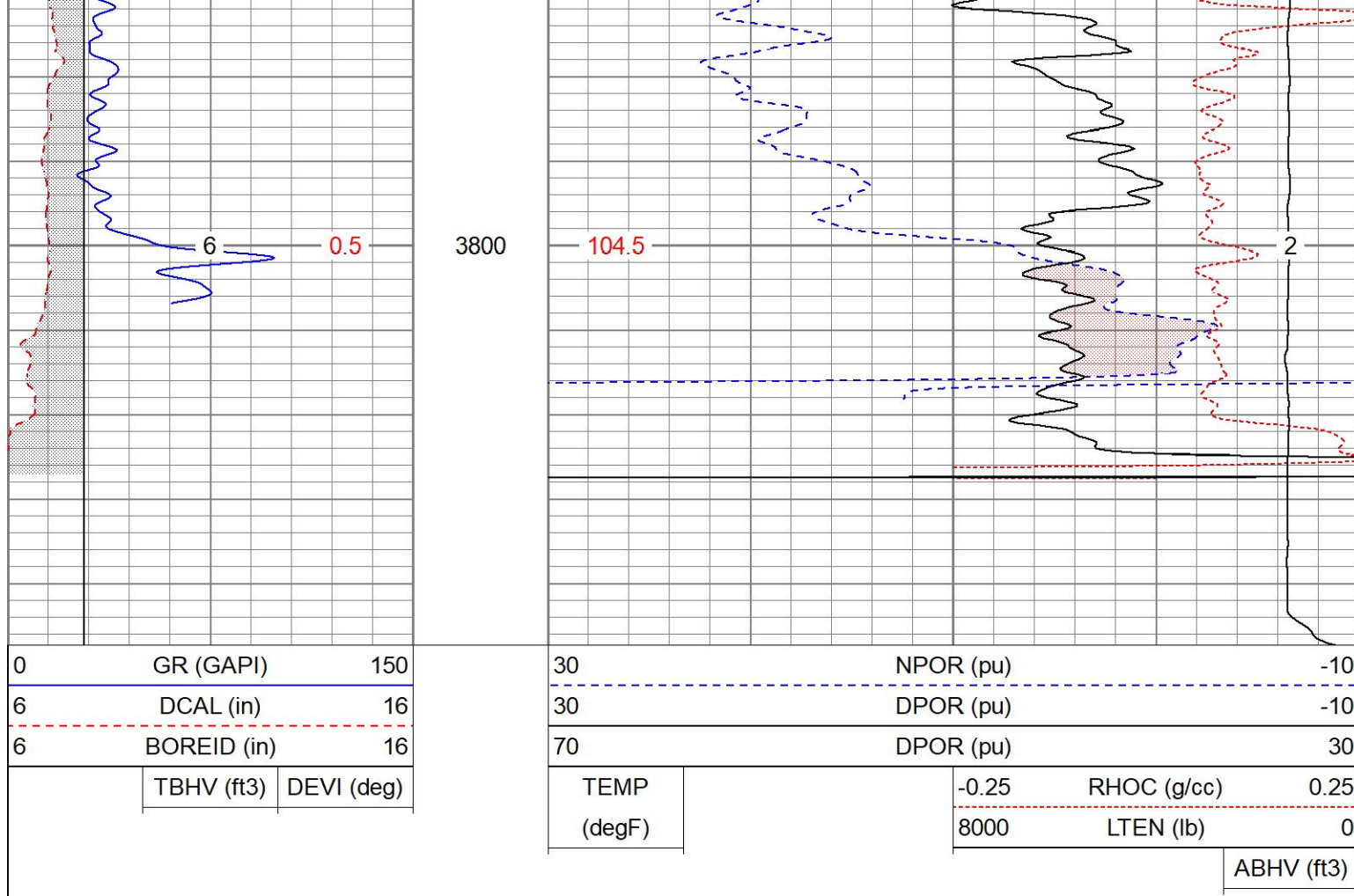
REPEAT SECTION

Database File petsleiker#16oh.db
Dataset Pathname pass20
Presentation Format digital_kcdnl
Dataset Creation Tue Jun 23 17:09:25 2026
Charted by Depth in Feet scaled 1:240

6	GR (GAPI)	150
6	DCAL (in)	16
6	BOREID (in)	16
	TBHV (ft3)	DEVI (deg)

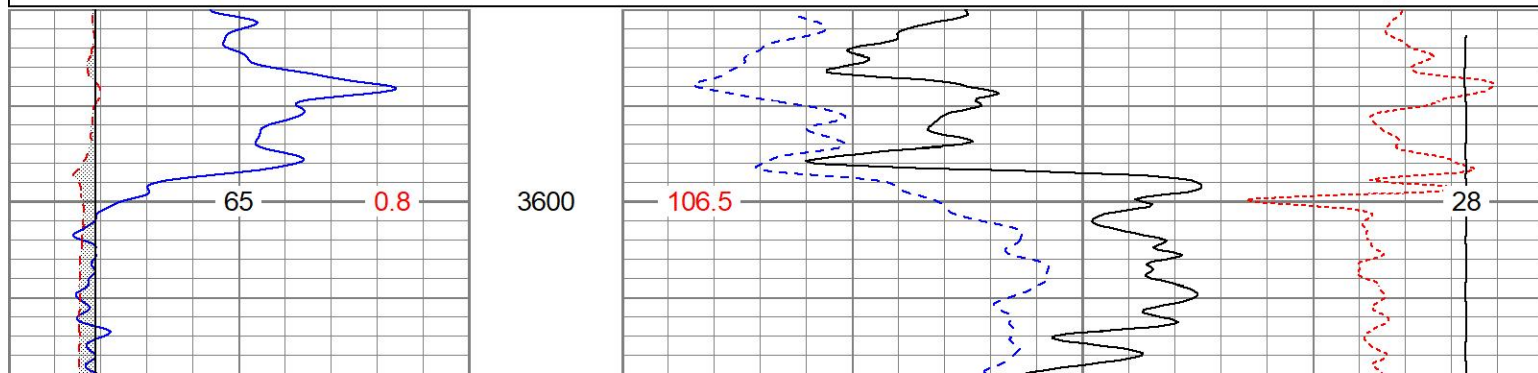
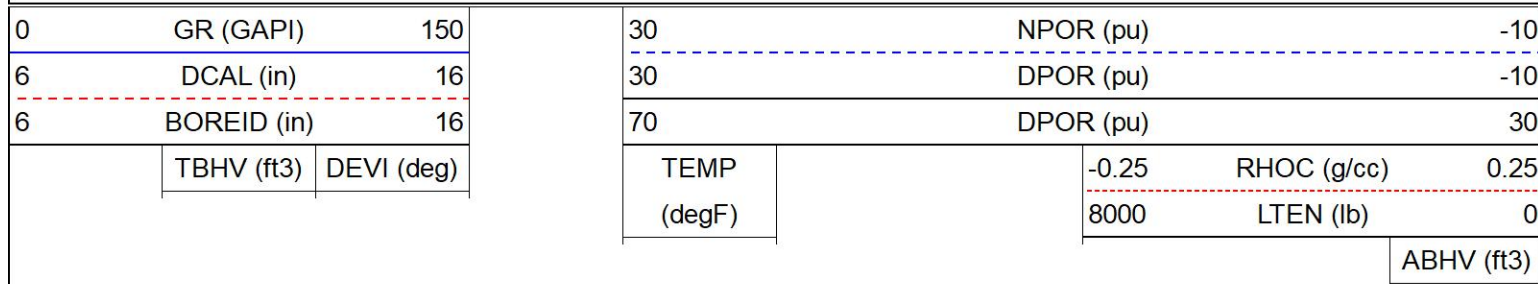
30		NPOR (pu)		-10
30		DPOR (pu)		-10
70		DPOR (pu)		30
TEMP		-0.25	RHOC (g/cc)	0.25
(degF)		8000	LTEN (lb)	0
			ABHV (ft3)	

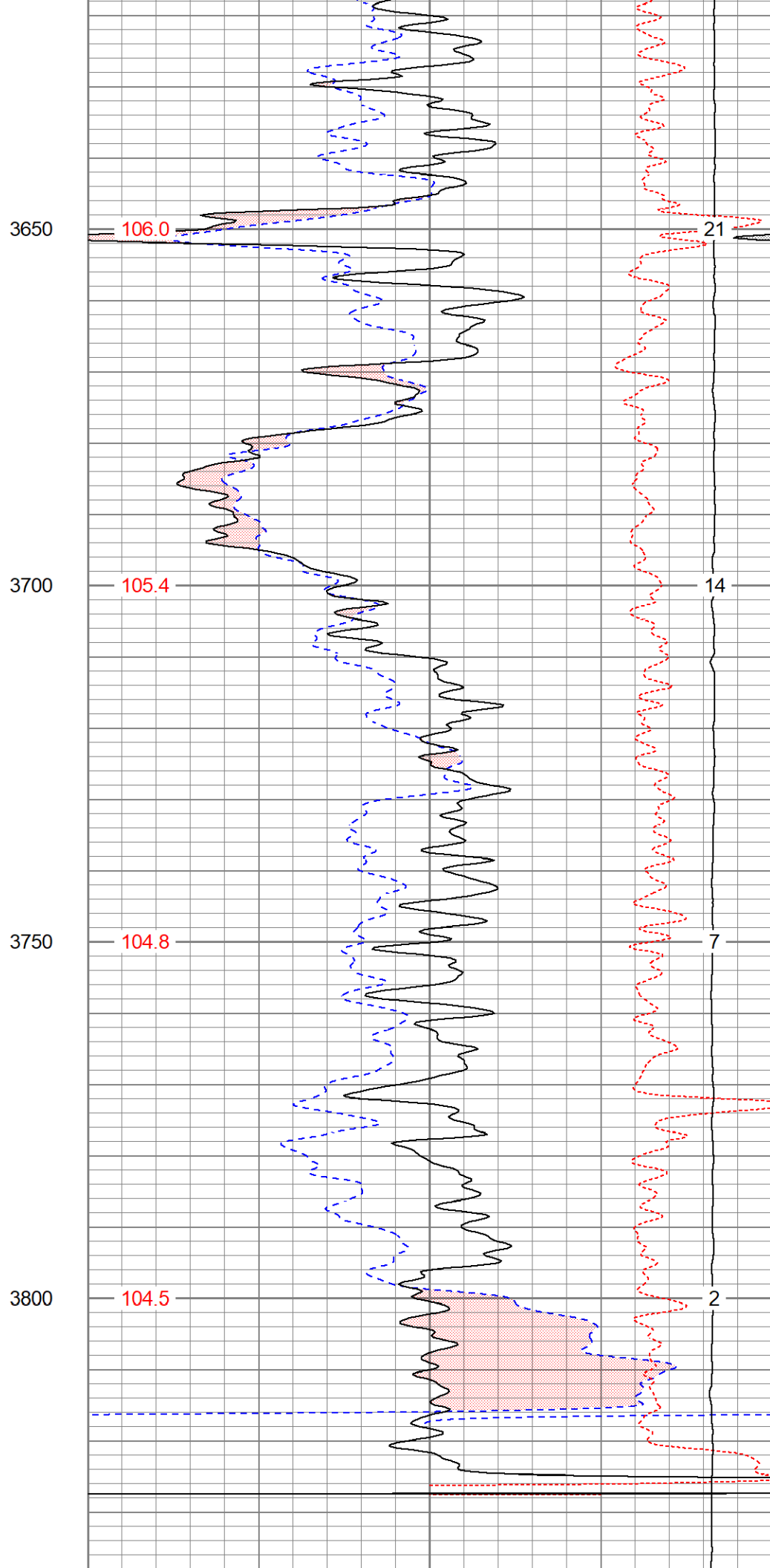
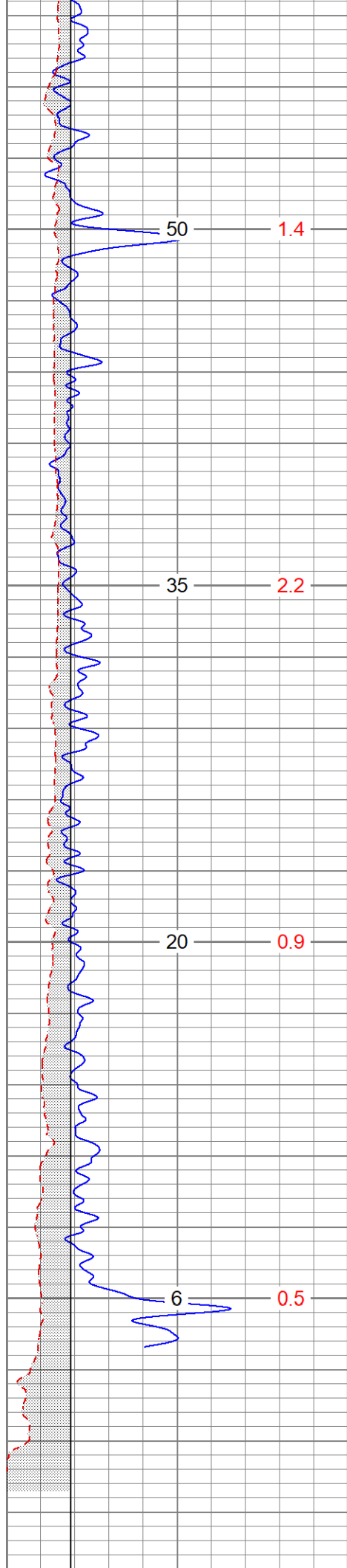




DOLOMITE MATRIX 2.81

Database File: petsleiker#16oh.db
 Dataset Pathname: pass20.1DOL
 Presentation Format: digital_kcdnl
 Dataset Creation: Tue Jun 23 17:15:10 2026
 Charted by: Depth in Feet scaled 1:240





	Density			Far Detector	Near Detector	
Magnesium	1.790	g/cc		5395.42	4600.53	cps
Aluminium	2.650	g/cc		1513.92	3118.74	cps
Aluminium+Sleeve	2.617	g/cc		1410.33	2784.25	cps
Spine Angle = 72.99			Density/Spine Ratio = 0.647			
	PE			NLITH	NHARD	
Magnesium	1.928	barn		3883.75	4301.83	cps
Aluminium	5.230	barn		748.77	1477.57	cps
Aluminium+Sleeve	6.800	barn		619.10	1414.49	cps
M = 0.809			B = -0.212		R = 1.000	
	Size			Reading		
Small Ring	8.00	in		2.84	V	
Large Ring	14.00	in		4.05	V	

Neutron Calibration Report

Serial Number:	AD5139				
Tool Model:	ADMY5139				
Performed:	(Not Performed)				
Calibrator Value:	1	NAPI			
Calibrator Reading:	1	cps			
Sensitivity:	1	NAPI/cps			

Temperature Calibration Report

Serial Number:	WithMC				
Tool Model:	WMC				
Performed:	Fri Apr 19 12:15:04 2019				
	Reference		Reading		
Low Reference:	0.00	degF	0.00	degF	
High Reference:	1.00	degF	1.00	degF	
Gain:	1.00				
Offset:	0.00				
Delta Spacing	1				

Inclinometer Calibration Report

Performed:	Wed May 5 19:20:48 2021				
	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer	205.00	1843.00	-1.00	1.00	gee
Y Accelerometer	205.00	1843.00	-1.00	1.00	gee
Z Accelerometer					gee

Gamma Ray Calibration Report

Serial Number:	WithMC				
Tool Model:	WMC				

Tool Model: WMC
Performed: Sat Apr 6 22:30:37 2024

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps

Calibrator Reading: 1.0 cps

Sensitivity: 1.0000 GAPI/cps