



LITHO DENSITY NEUTRON LOG

Company	Palomino Petroleum	Well	Hagans #14-4	Field	Unice Northeast	County	Ness	State	Kansas
Location:		API #: 15 135 26062			Other Services DIL ML				
SEC 14 TWP 16S RGE 26W		384' FNL & 355' FWL							
Permanent Datum	Ground Level	Elevation	2577'	Elevation					
Log Measured From	KB 5' AGL			K.B. 2582'					
Drilling Measured From	KB			D.F. 2581'					
				G.L. 2577'					
Date	3/27/19								
Run Number	One								
Depth Driller	4620'								
Depth Logger	4617'								
Bottom Logged Interval	4595'								
Top Log Interval	3400'								
Casing Driller	8 5/8" @ 209'								
Casing Logger	209'								
Bit Size	7 7/8"								
Type Fluid in Hole	Chemical								
Density / Viscosity	9.35/48								
pH / Fluid Loss	8.5/8.4								
Source of Sample	Pit	Chlorides 3000 PPM							
Rm @ Meas. Temp	1.6@78degf								
Rmf @ Meas. Temp	1.2@78degf								
Rmc @ Meas. Temp	1.9@78degf								
Source of Rmf / Rmc	Calculated								
Rm @ BHT	1.1@114degf								
Time Circulation Stopped	3:15 p.m								
Time Logger on Bottom	6:00 p.m								
Maximum Recorded Temperature	114degf								
Equipment Number	T-605								
Location	Hays, KS								
Recorded By	C.Patterson								
Witnessed By	Mr. Andrew Stenzel								

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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

West Side of Utica, KS on Hwy 4 to D RD(Jackson St), North On D RD.(Jackson St.) for 1.75 mi.,
West to South Into Location

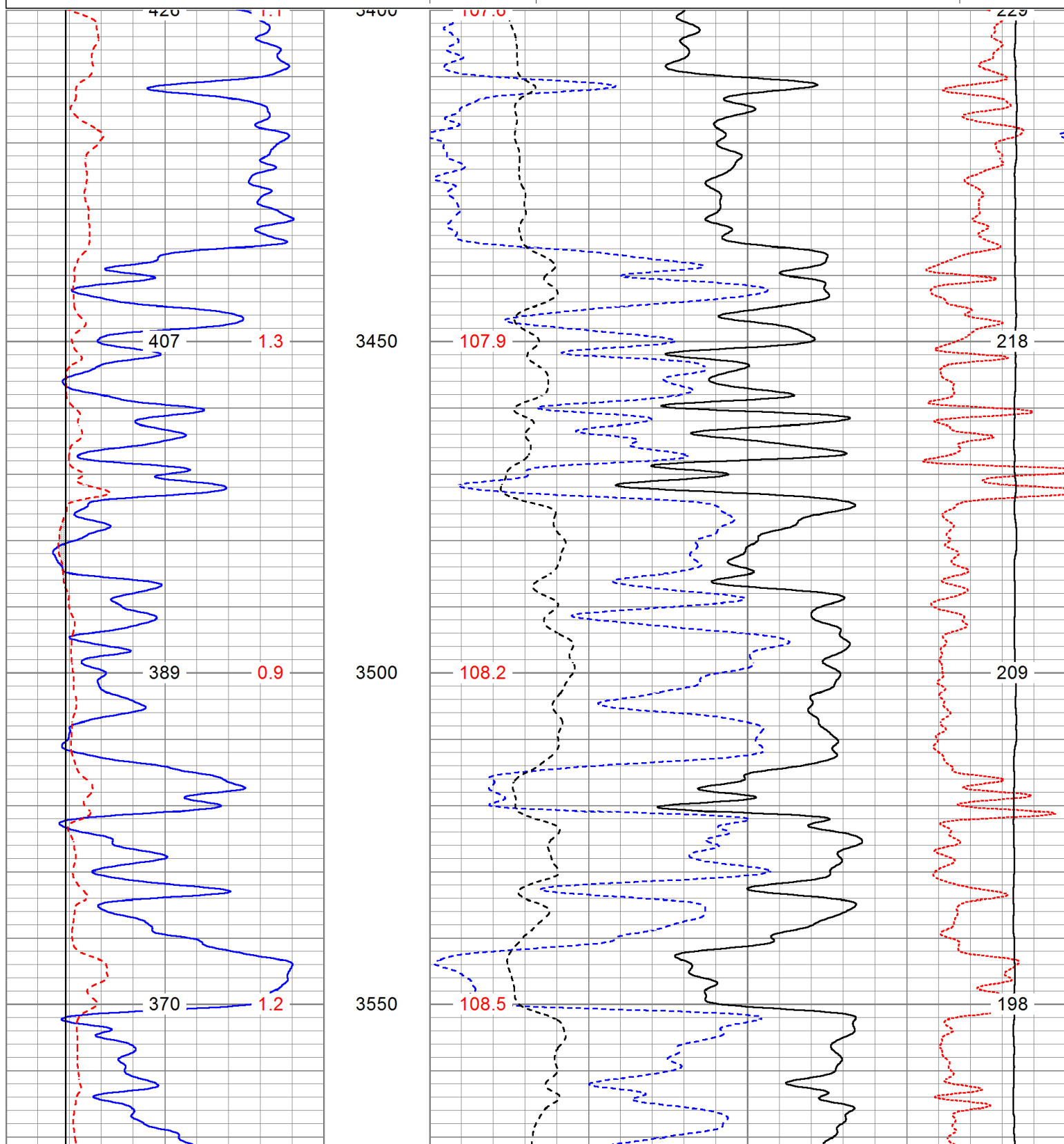
Thanks for using Gemini Wireline LLC
785-625-1182

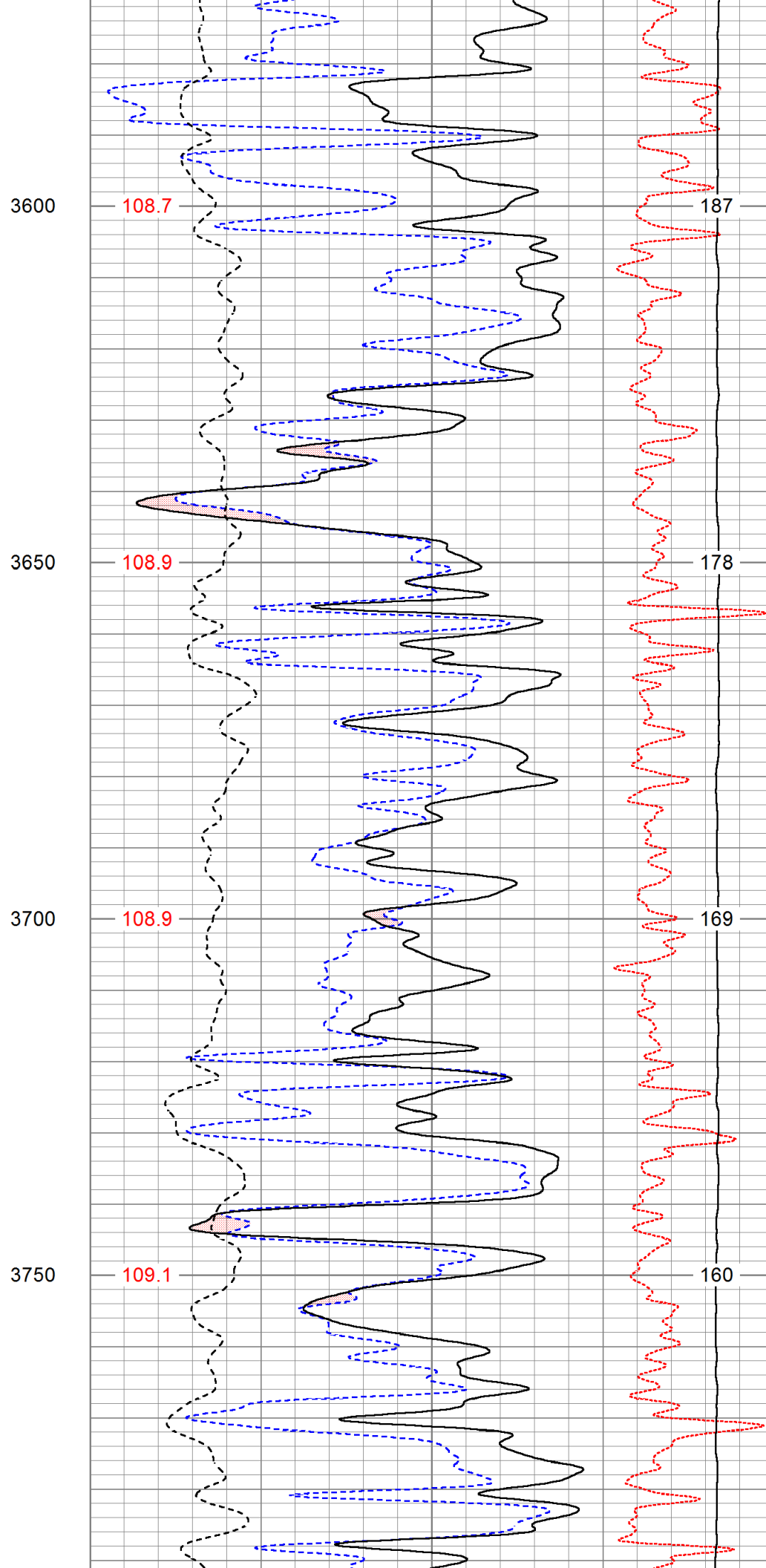
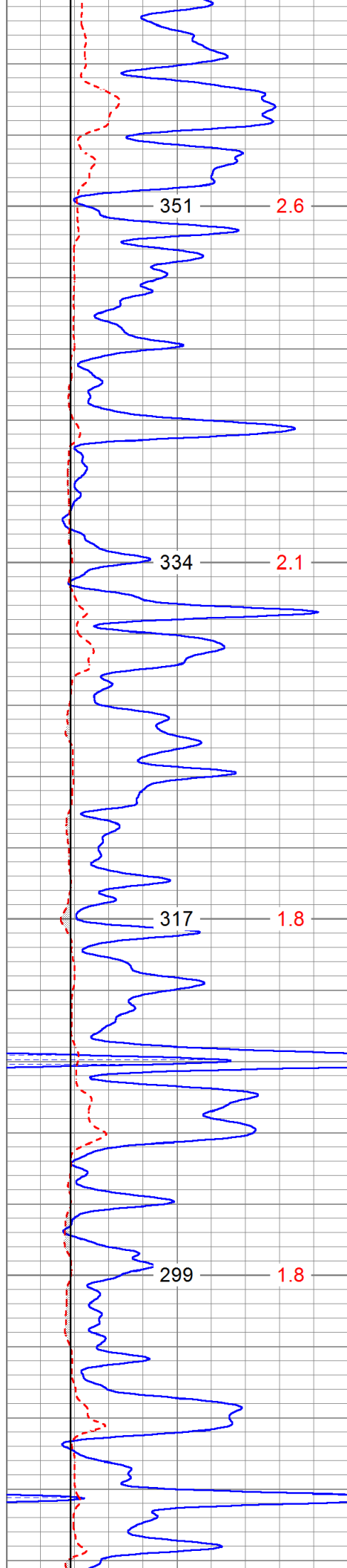


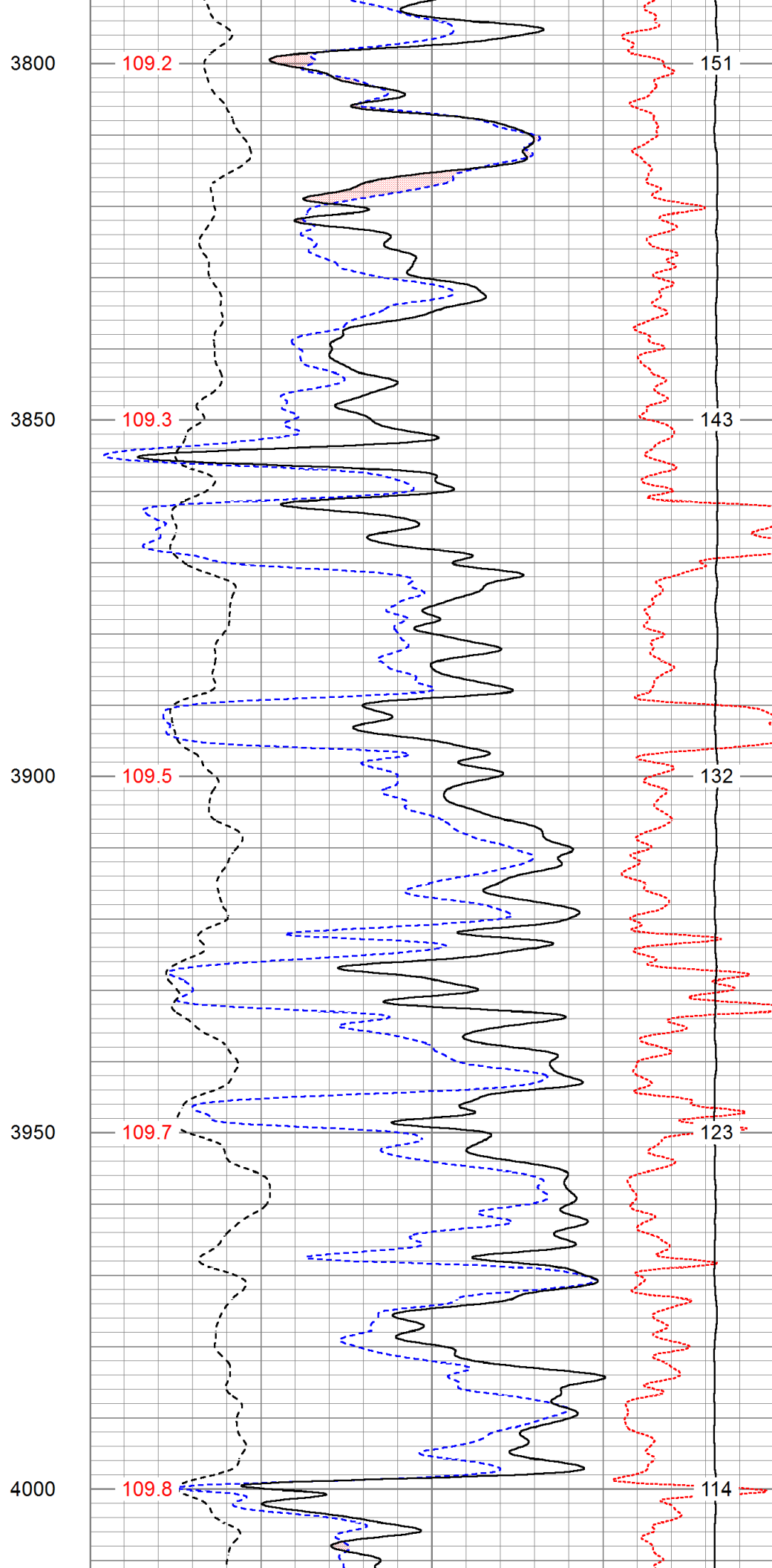
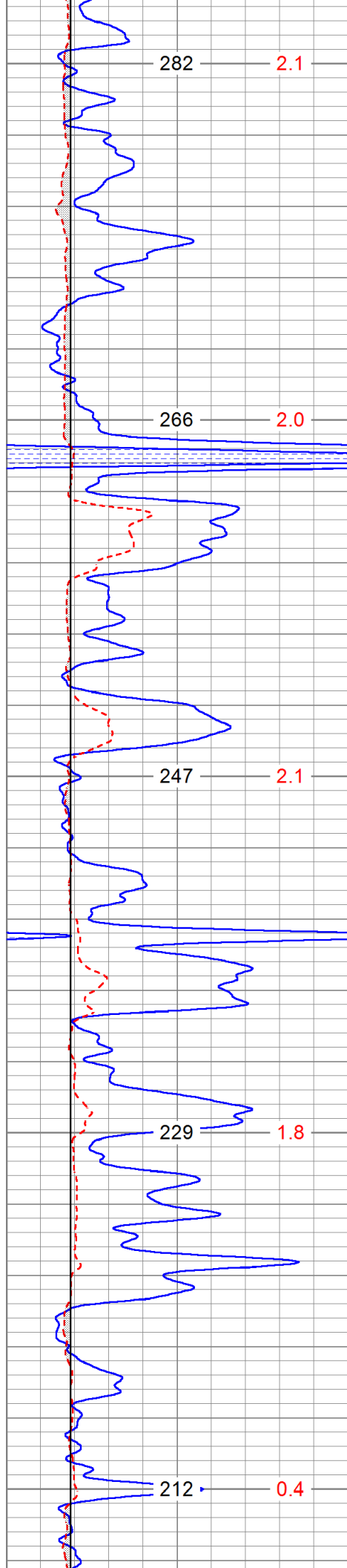
MAIN PASS

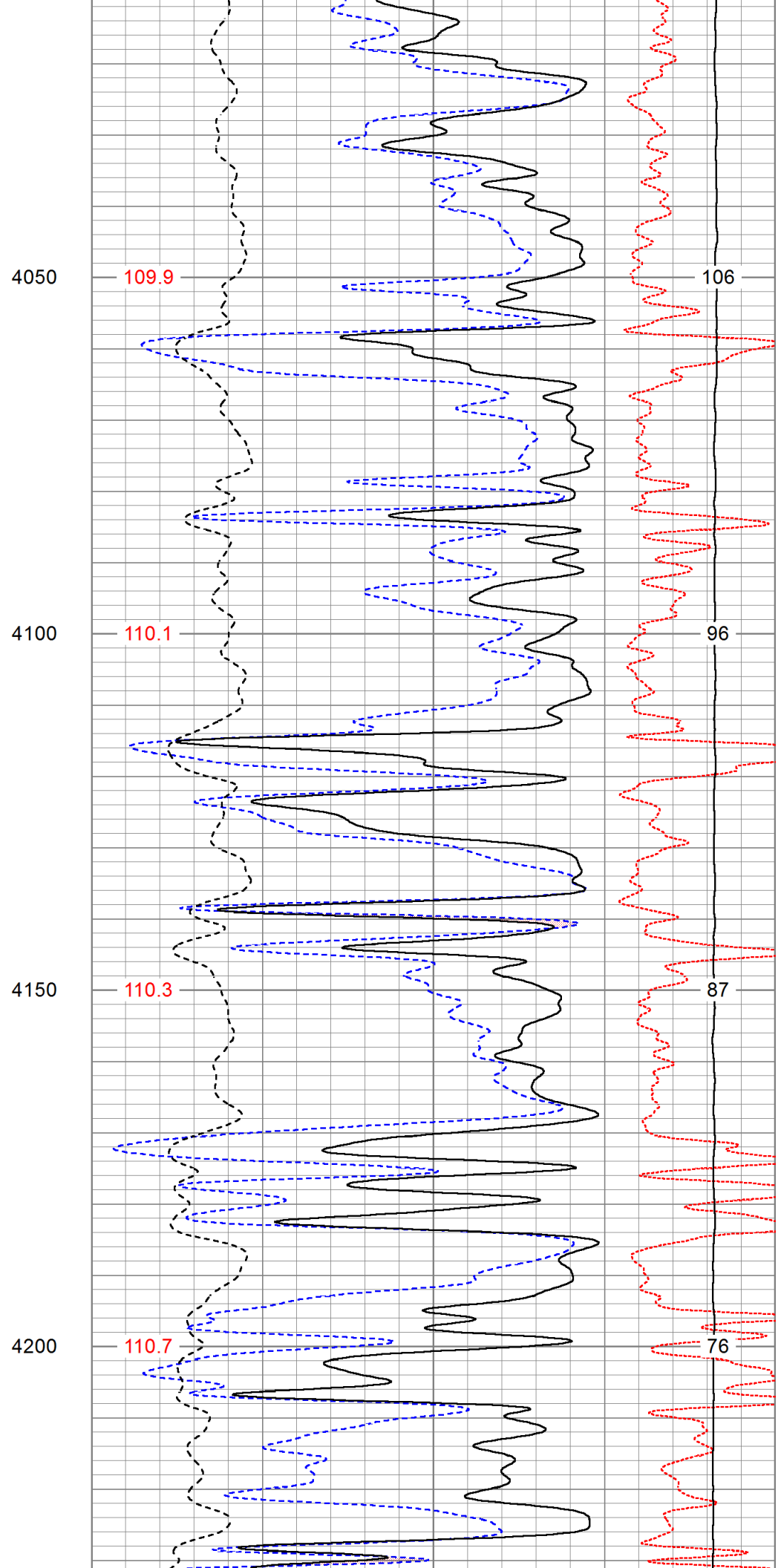
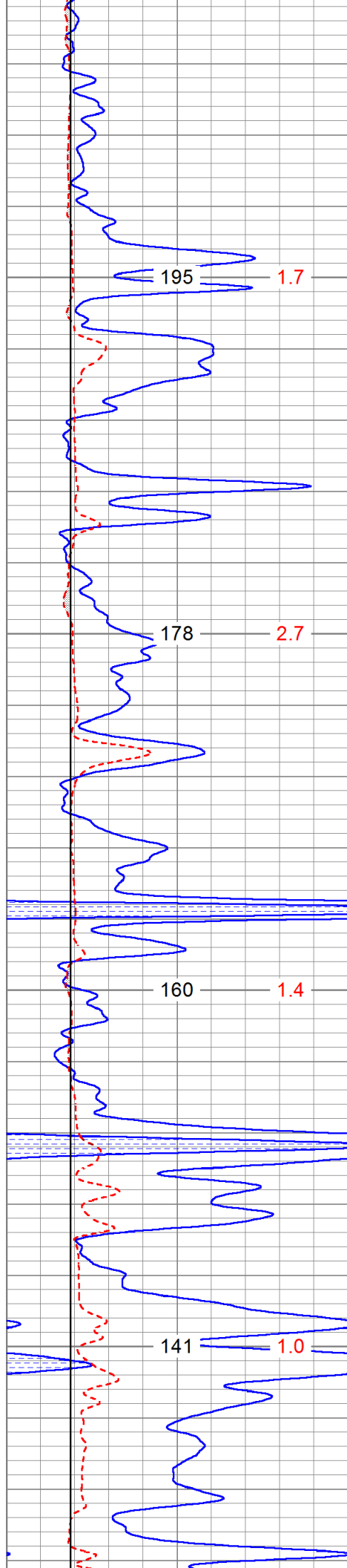
pphagans#14-4oh.db
pass2.1
digital_kcdnl
Wed Mar 27 19:52:13 2019
Depth in Feet scaled 1:240

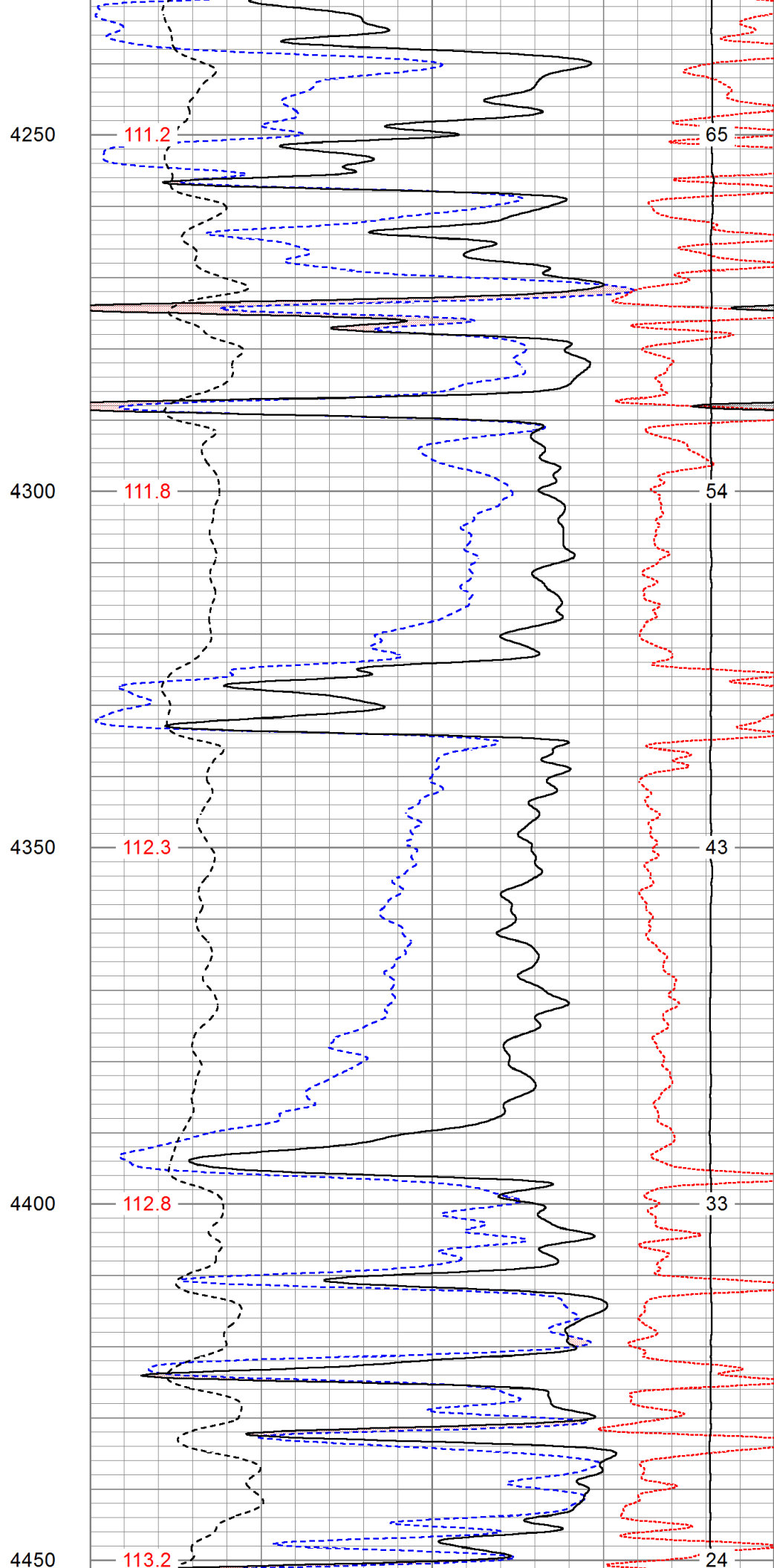
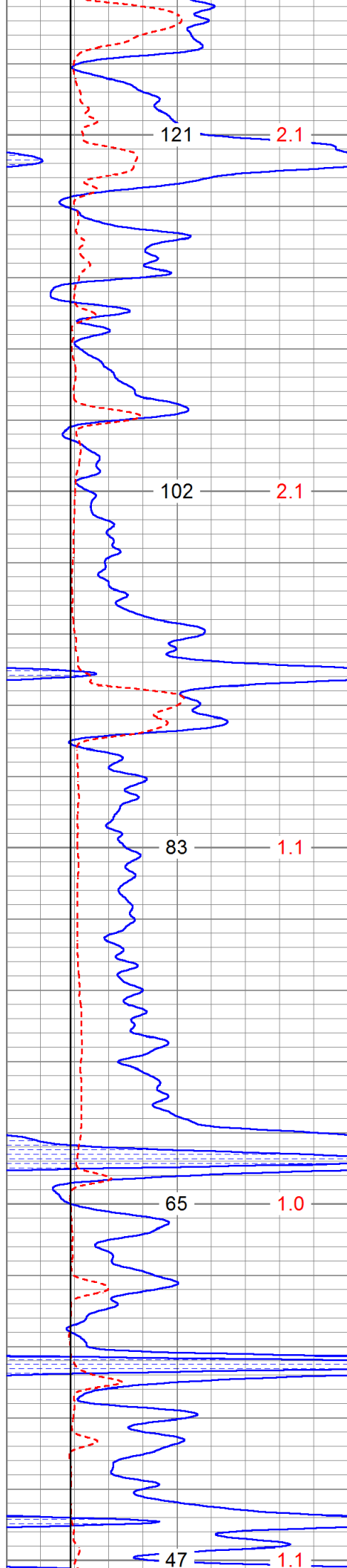
0GR (GAPI)150			30NPOR (pu)-10					
6DCAL (in)16			30DPOR (pu)-10					
6BOREID (in)16			70DPOR (pu)30					
	TBHV (ft3)	DEVI	0	Pe (barn)	10	-0.25	RHOC (g/cc)	0.25
		(deg)	TEMP			8000	LTEN (lb)	0
			(degF)					ABHV (ft3)

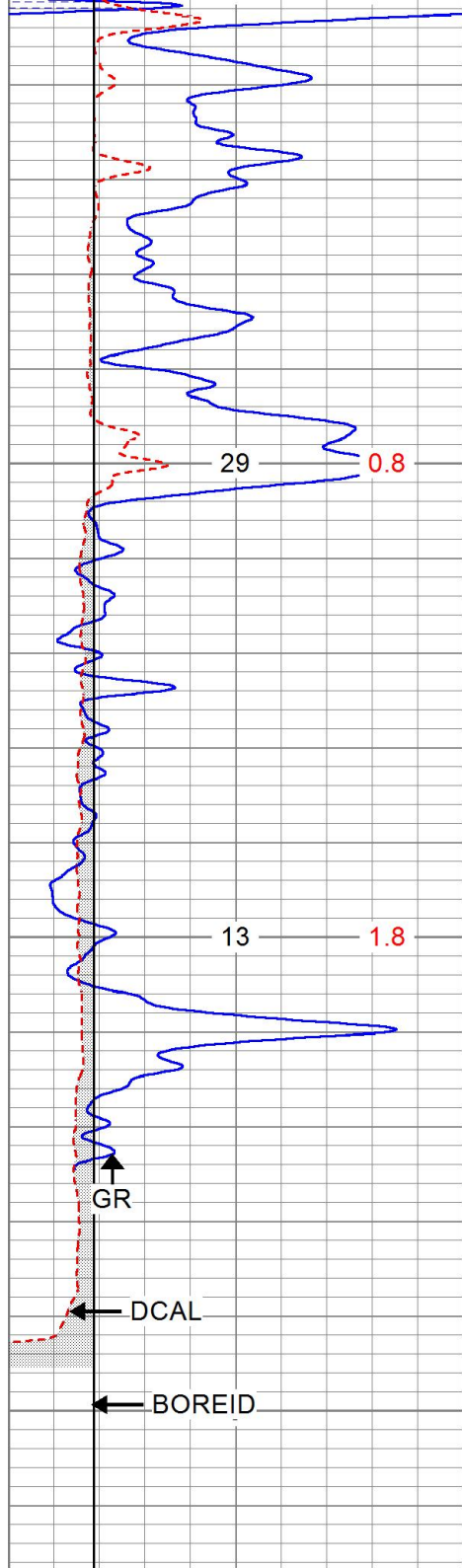




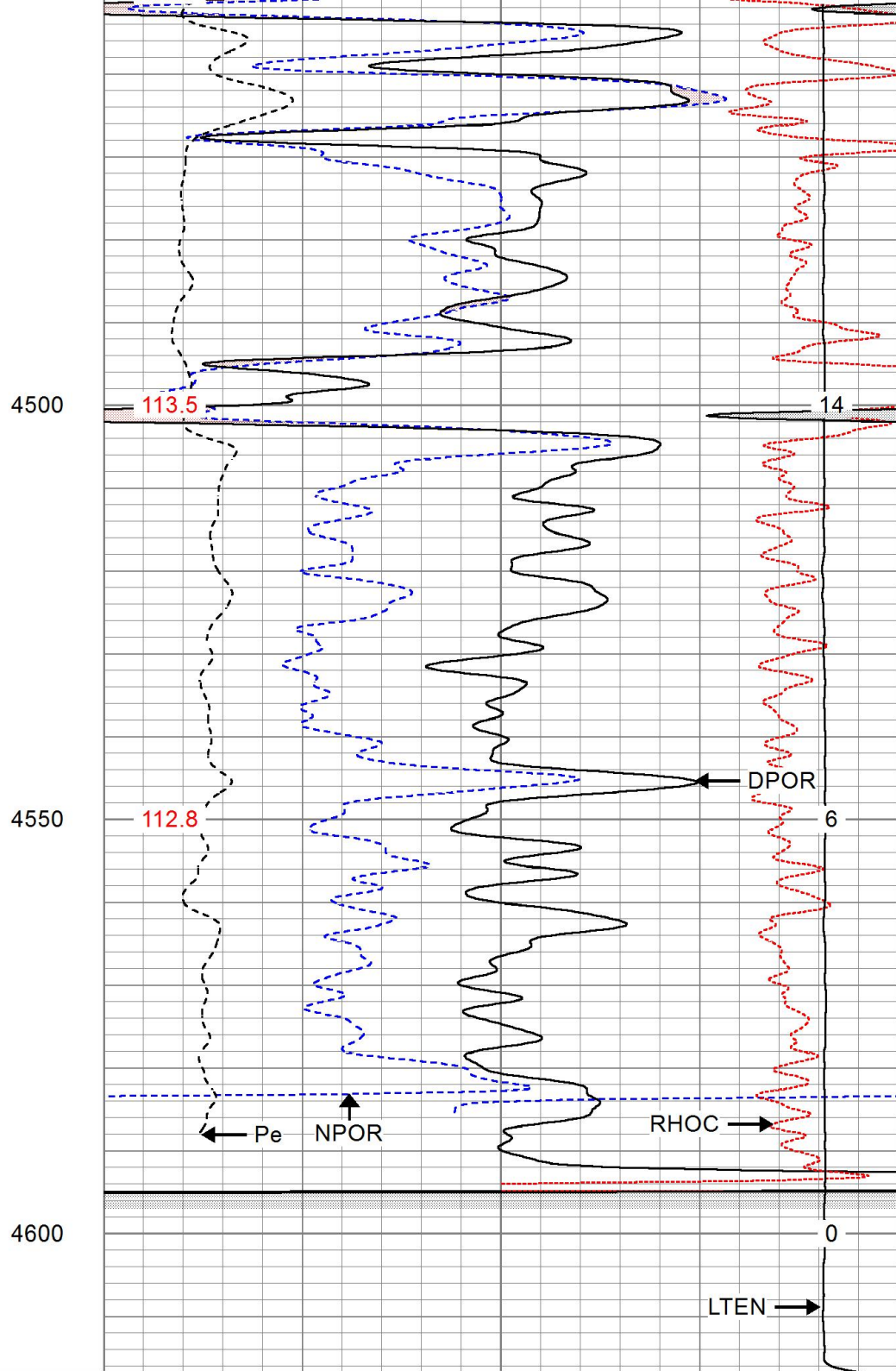








0	GR (GAPI)	150
6	DCAL (in)	16
6	BOREID (in)	16
	TBHV (ft3)	DEVI (deg)



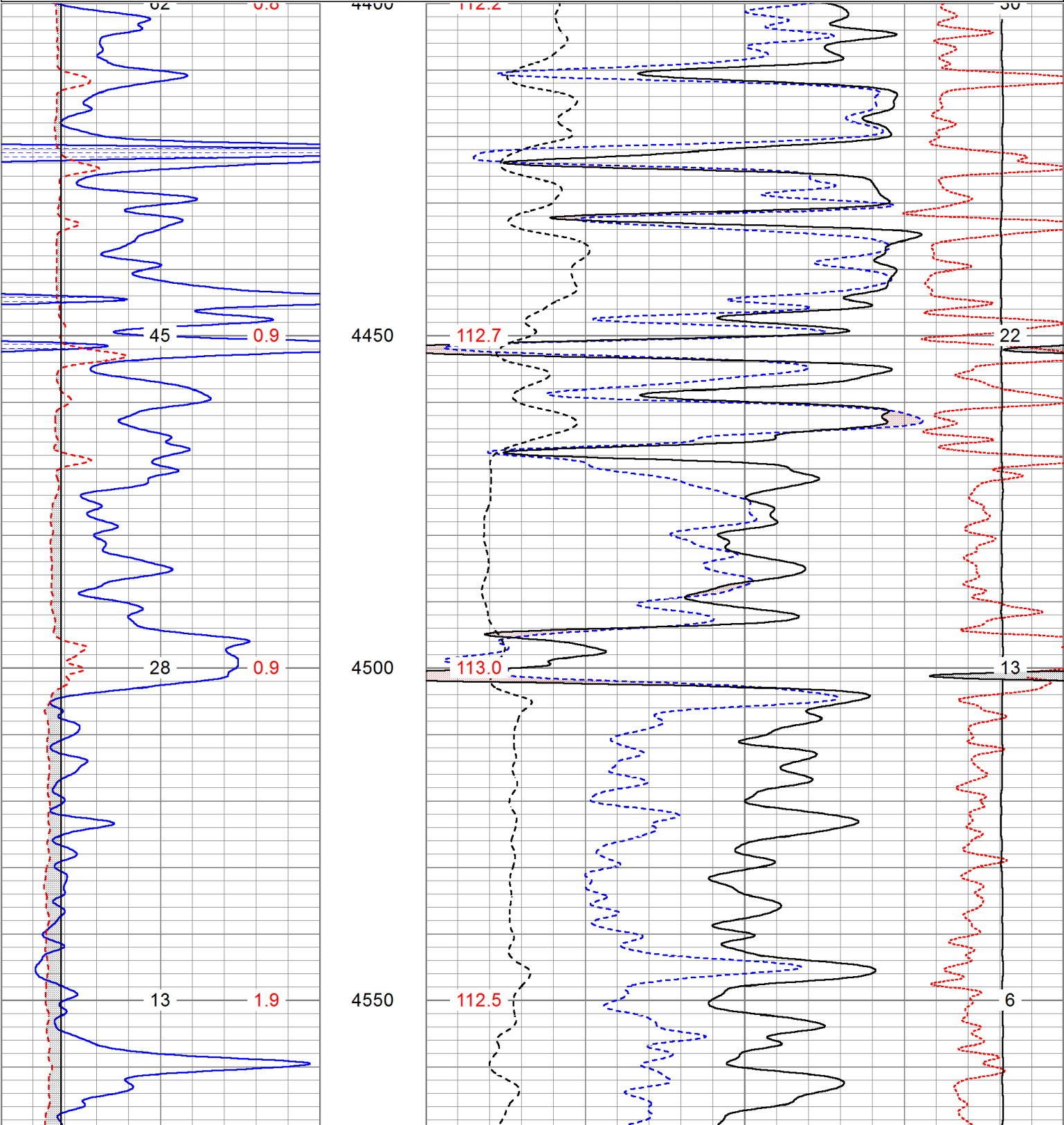
30		NPOR (pu)		-10	
30		DPOR (pu)		-10	
70		DPOR (pu)		30	
0	Pe (barn)	10	-0.25	RHOC (g/cc)	0.25
TEMP (degF)			8000	LTEN (lb)	0
			ABHV (ft3)		

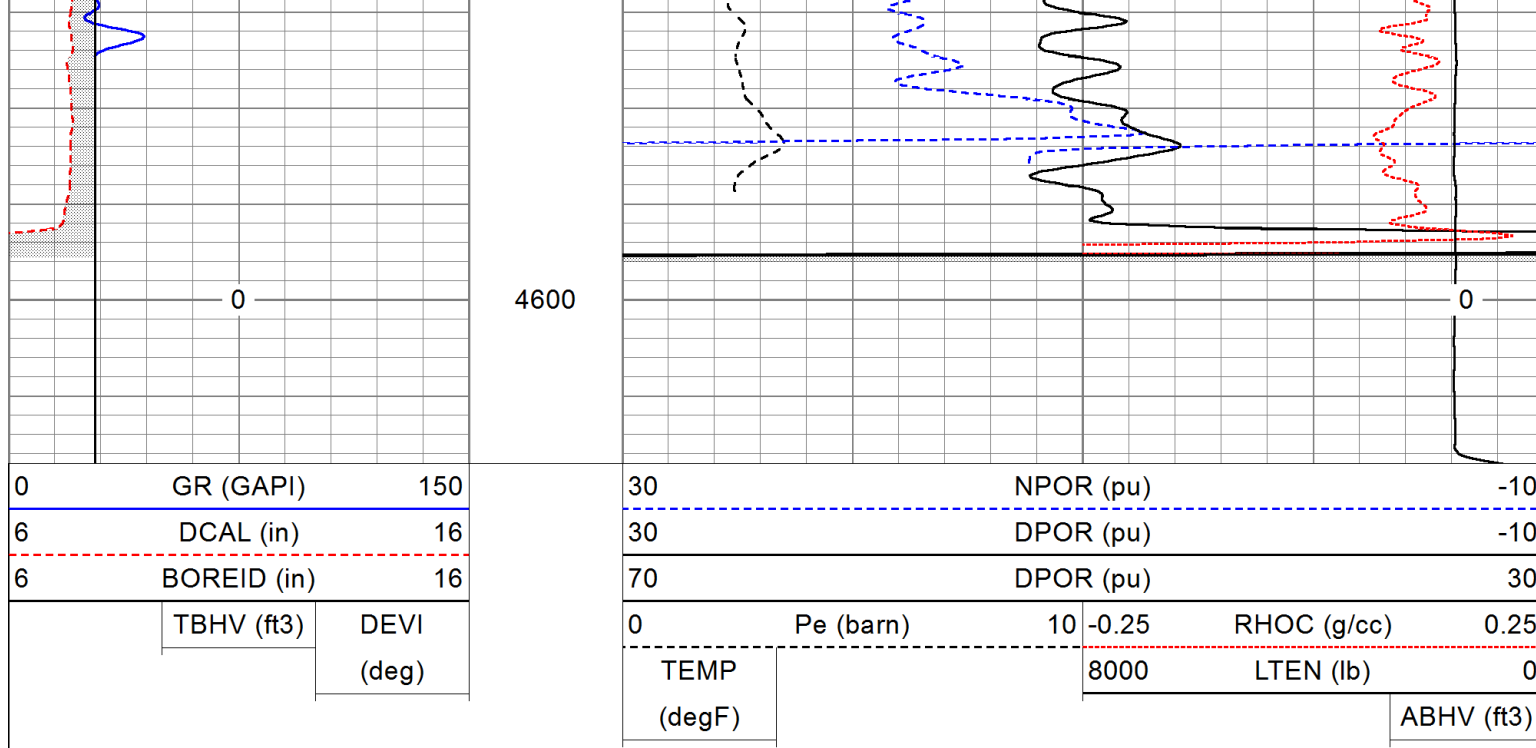


REPEAT SECTION

Database Filepphagans#14-4oh.dbDataset Pathnamepass1.1Presentation Formatdigital_kcdnlDataset CreationWed Mar 27 19:56:52 2019Charted byDepth in Feet scaled 1:240

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





Calibration Report		
Database File	pphagans#14-4oh.db	
Dataset Pathname	pass2.1	
Dataset Creation	Wed Mar 27 19:52:13 2019	

Dual Induction Calibration Report

Serial-Model:	5375-G
Surface Cal Performed:	Tue Jan 22 08:45:42 2019
Downhole Cal Performed:	Tue Jan 22 08:46:17 2019
After Survey Verification Performed:	Tue Jan 22 08:46:17 2019

Surface Calibration								
Loop:	Readings			References			Results	
	Air	Loop		Air	Loop		m	b
Deep	0.002	0.642	V	0.000	350.000	mmho/m	547.166	-1.056
Medium	0.004	0.724	V	0.000	425.000	mmho/m	590.216	-2.564
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.002	0.642	V	0.000	350.000	mmho/m	547.349	-1.170
Medium	0.004	0.725	V	0.000	550.000	mmho/m	763.497	-3.249

Downhole Calibration								
Internal:	Readings			References			Results	
	Zero	Cal		Zero	Cal		m	b
Deep	0.089	349.955	mmho/m	0.113	349.997	mmho/m	1.000	0.024
Medium	-0.171	400.157	mmho/m	-0.049	400.115	mmho/m	1.000	0.122
Shallow	2.429	0.011	V	500.000	2.000	Ohm-m	200.929	0.282

After Survey Verification								
Internal:	Readings			Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'

Deep	0.000	0.000	mmho/m	0.089	349.955	mmho/m	1.000	0.024
Medium	0.000	0.000	mmho/m	-0.171	400.157	mmho/m	1.000	0.122
Shallow	0.000	0.000	Ohm-m	500.000	2.000	Ohm-m	1.000	0.000

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:	Wed Dec 05 04:54:01 2018				
	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 Dec 05 04:53:48 2018					
			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					
Performed:			Wed Dec 05 04:58:30 2018					
Calibrator Value:			1.0	GAPI				
Background Reading:			0.0	cps				
Calibrator Reading:			1.0	cps				
Sensitivity:			1.0000	GAPI/cps				

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.07		CHD-STD	0.50	1.69	1.00
ACCY	38.91					
ACCX	38.91		ADT-WMC (WithMC)	4.58	3.50	120.00
SSTAT	38.49		Admyr Telemetry With Mudcell			

