



LITHO DENSITY NEUTRON LOG

Company	Palomino Petroleum	Company	Palomino Petroleum
Well	True Grit #1	Well	True Grit #1
Field	Unice East	Field	Unice East
County	Ness	County	Ness
State	KS	State	KS
Location:	API # : 15-135-26164		Other Services DIL ML
	2587' FSL & 2476' FEL		
Permanent Datum	SEC 27 TWP 16S RGE 26W	Ground Level	Elevation
Log Measured From	KB 8' AGL		2633'
Drilling Measured From	KB		Elevation K.B. 2641' D.F. 2640' G.L. 2633'
Date	5/15/22		
Run Number	One		
Depth Driller	4680'		
Depth Logger	4679'		
Bottom Logged Interval	4657'		
Top Log Interval	3700'		
Casing Driller	8 5/8" @ 224'		
Casing Logger	224'		
Bit Size	7 7/8"		
Type Fluid in Hole	Chemical		
Density / Viscosity	9.4/59		
pH / Fluid Loss	10/5.8		
Source of Sample	Pit		
Rm @ Meas. Temp	1.7@80degf		
Rmf @ Meas. Temp	1.4@80degf		
Rmc @ Meas. Temp	2.2@800degf		
Source of Rmf / Rmc	Calculated		
Rm @ BHT	1.2@118degf		
Time Circulation Stopped	3:30 PM		
Time Logger on Bottom	6:00PM		
Maximum Recorded Temperature	118degf		
Equipment Number	T-605		
Location	Hays, KS		
Recorded By	C.Patterson		
Witnessed By	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

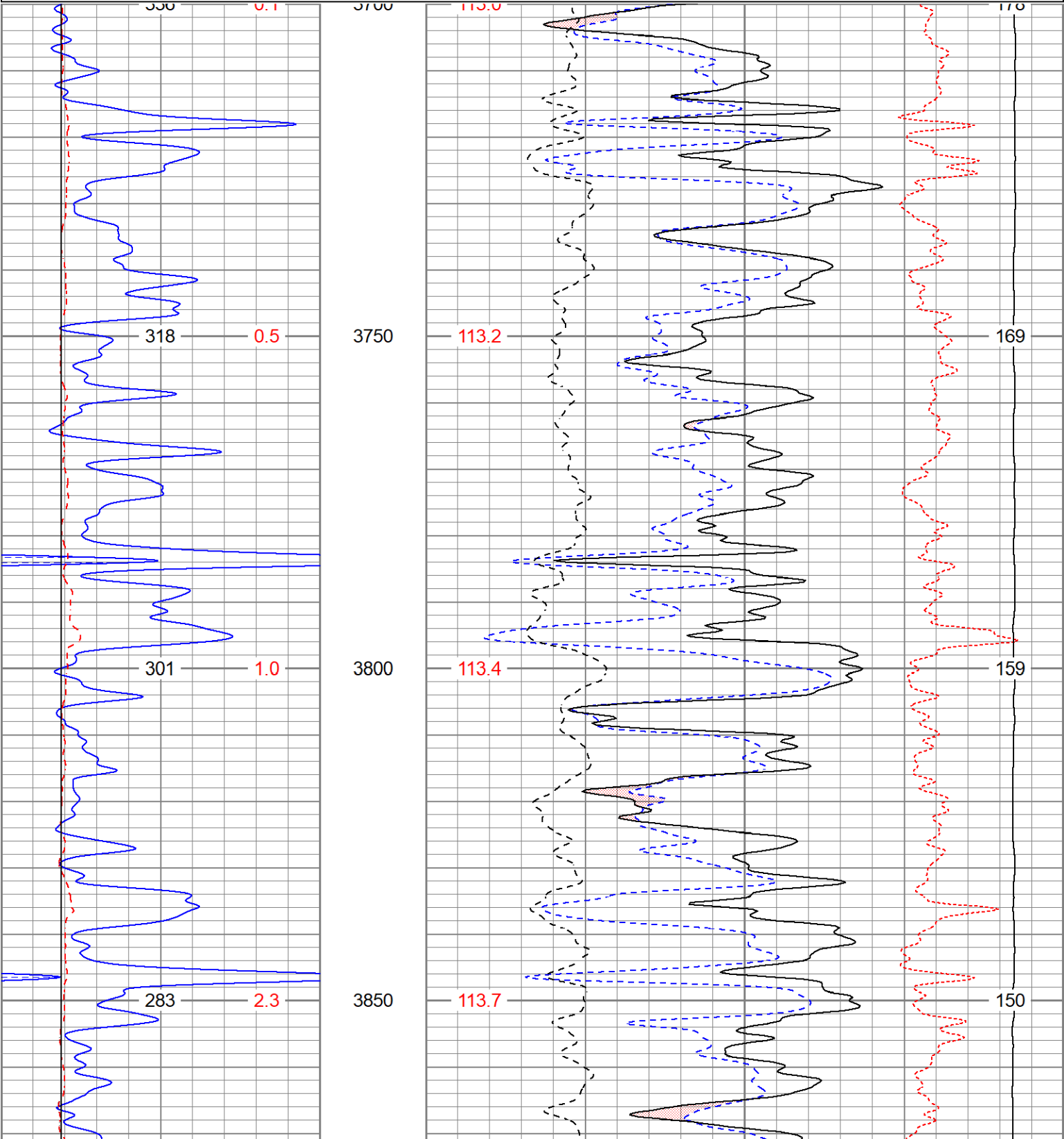
Utica,KS Go West On Hwy. 4 To Jackson St.(West Side of Town), South 1/2 mi,
West Into.

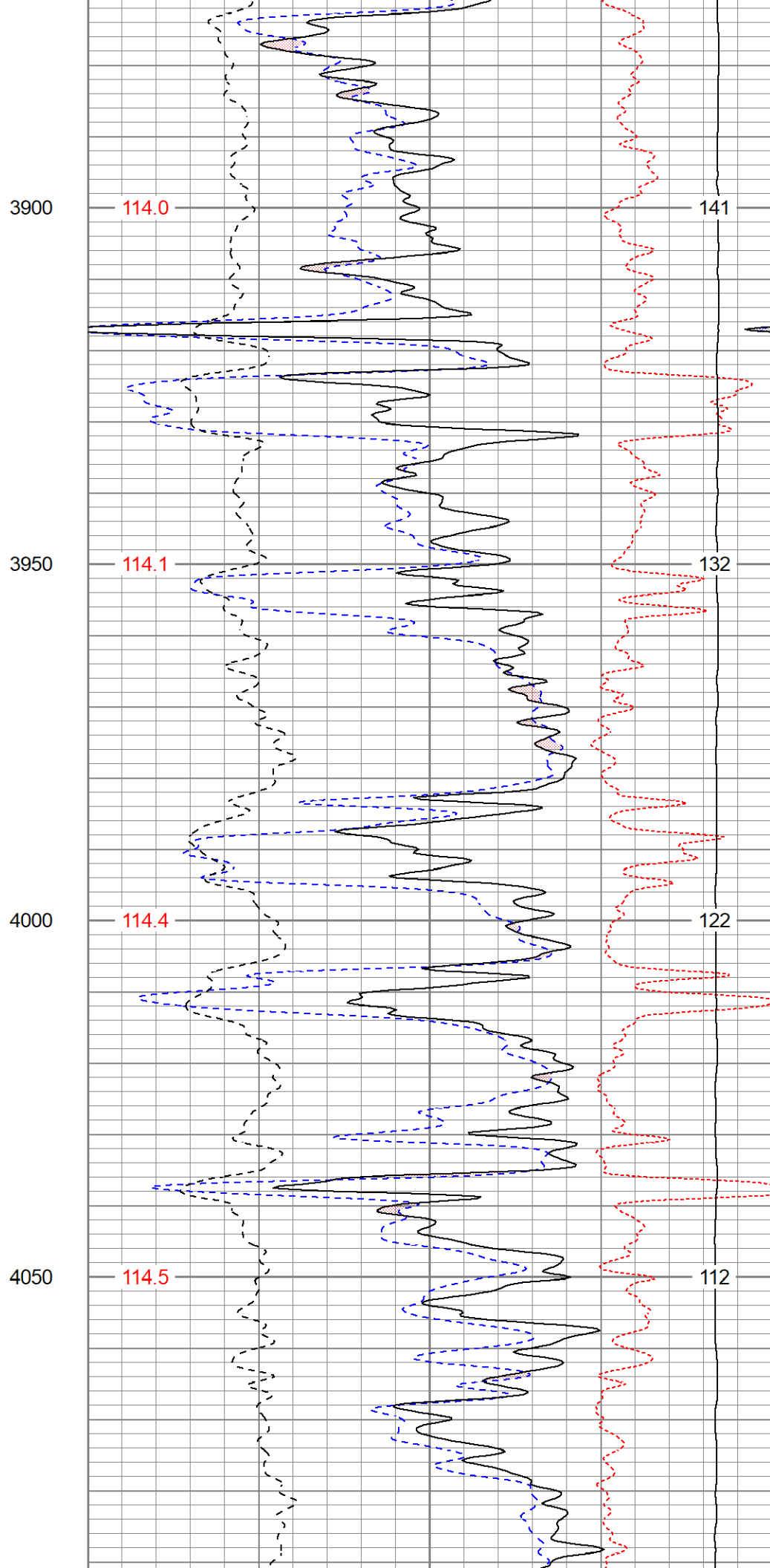
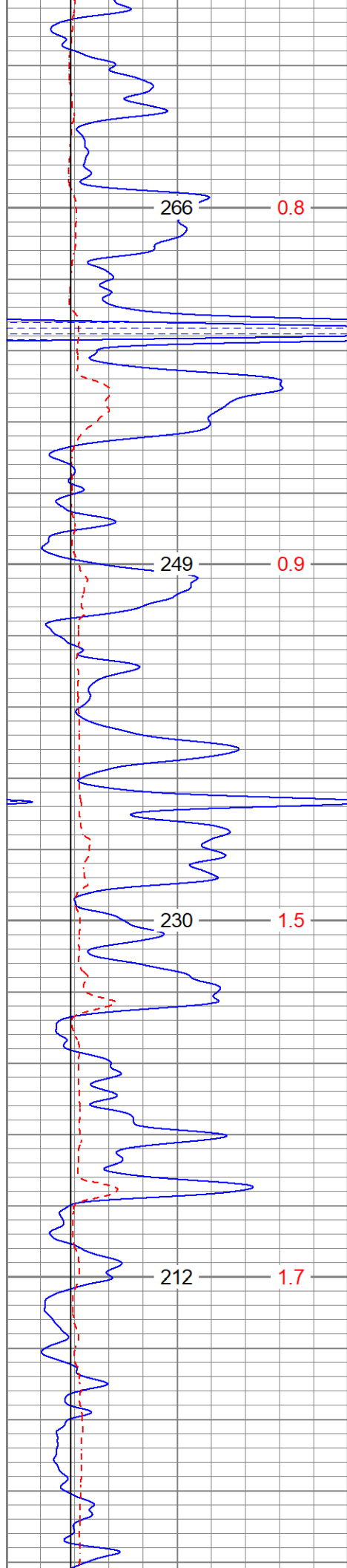
Thank You for using Gemini Wireline LLC
785-625-1182

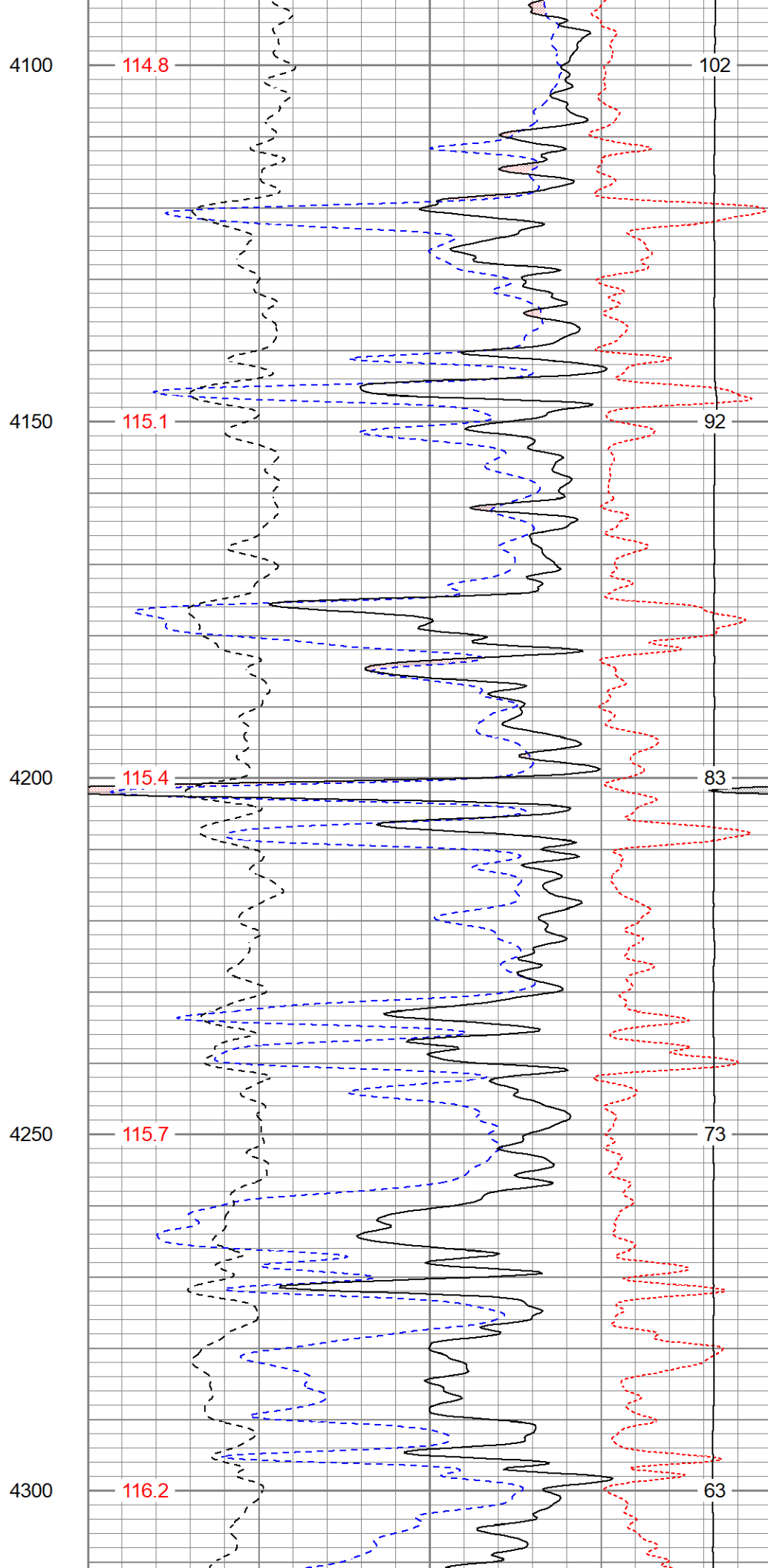
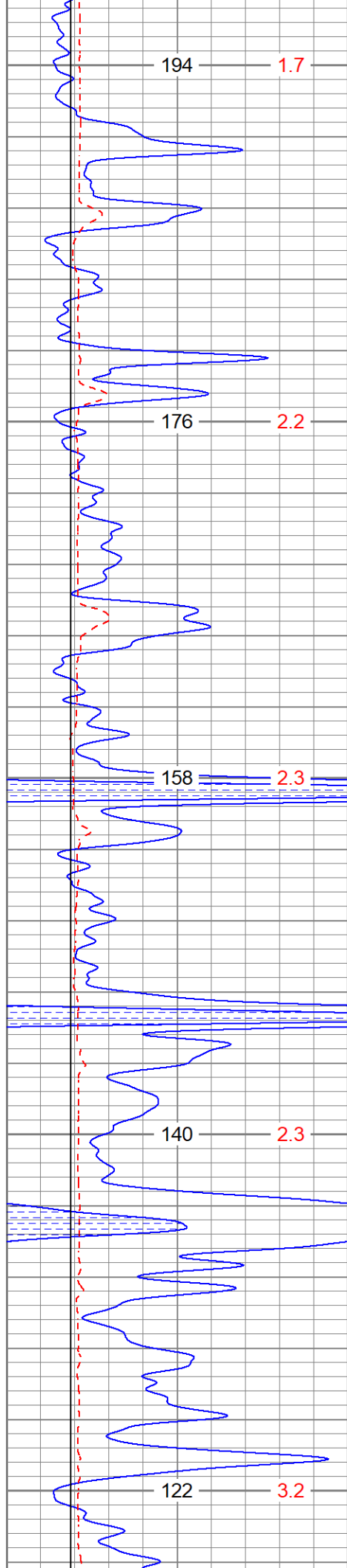


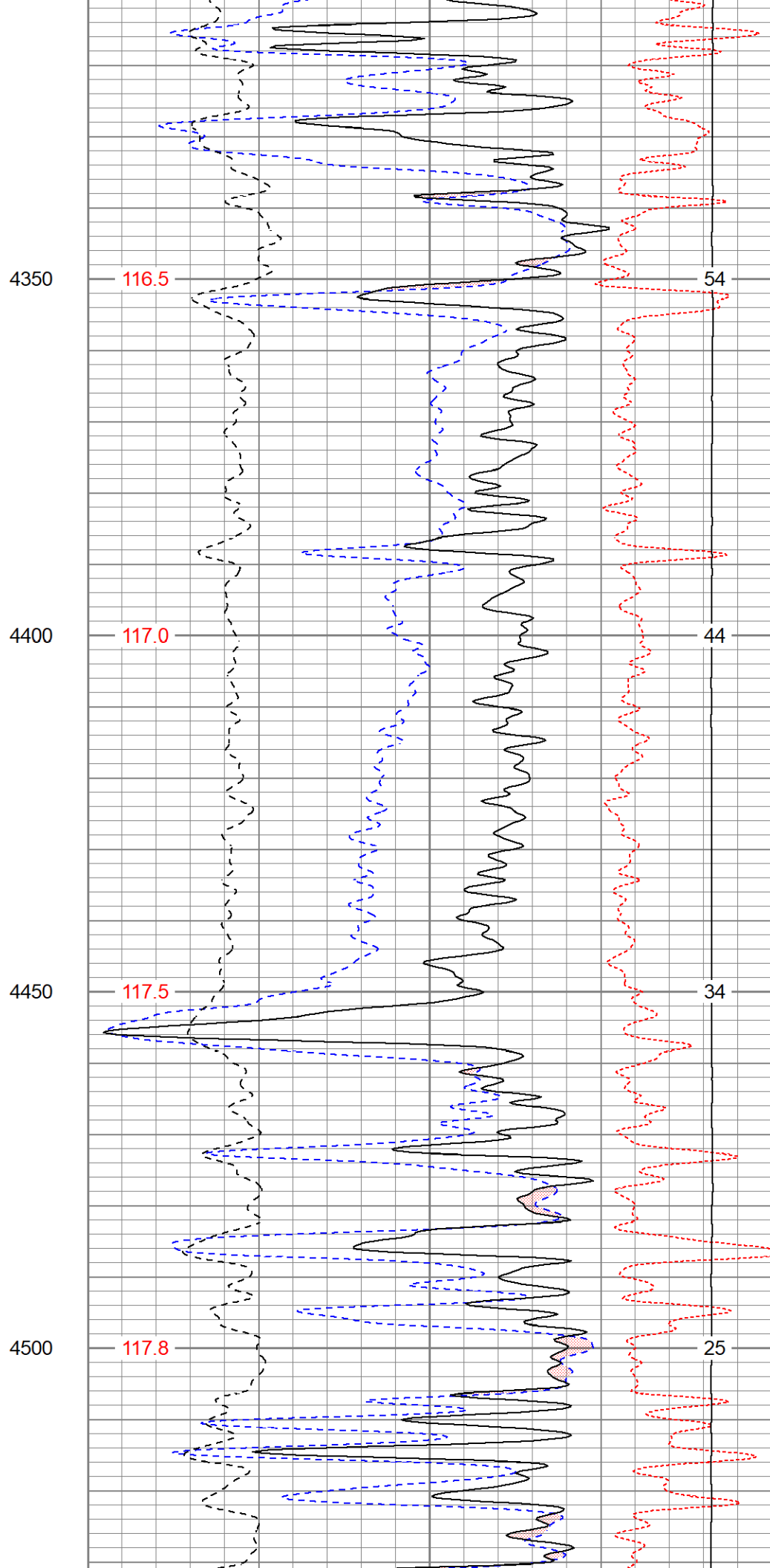
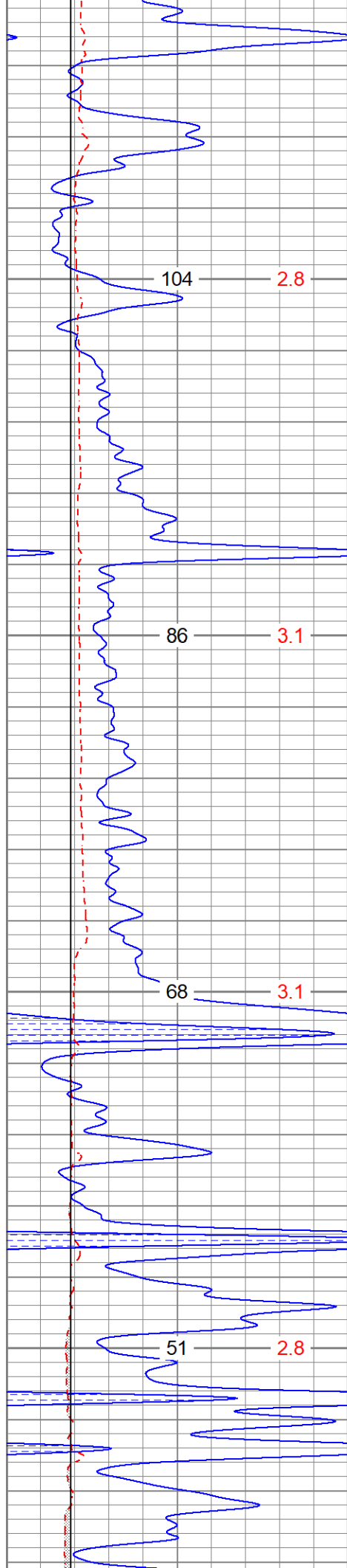
MAIN PASS

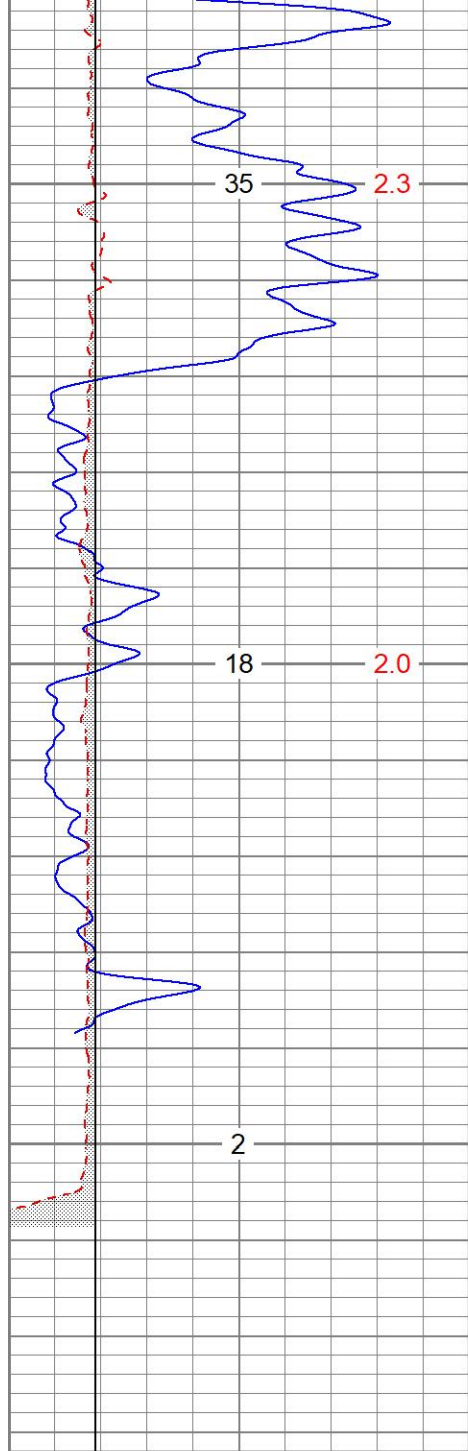
0	GR (GAPI)	150	30	NPOR (pu)		-10
6	DCAL (in)	16	30	DPOR (pu)		-10
6	BOREID (in)	16	70	DPOR (pu)		30
	TBHV (ft3)	DEVI (deg)	0	Pe (barn)	10	-0.25
			TEMP (degF)		8000	RHOC (g/cc)
						0.25
						LTEN (lb)
						0
						ABHV (ft3)



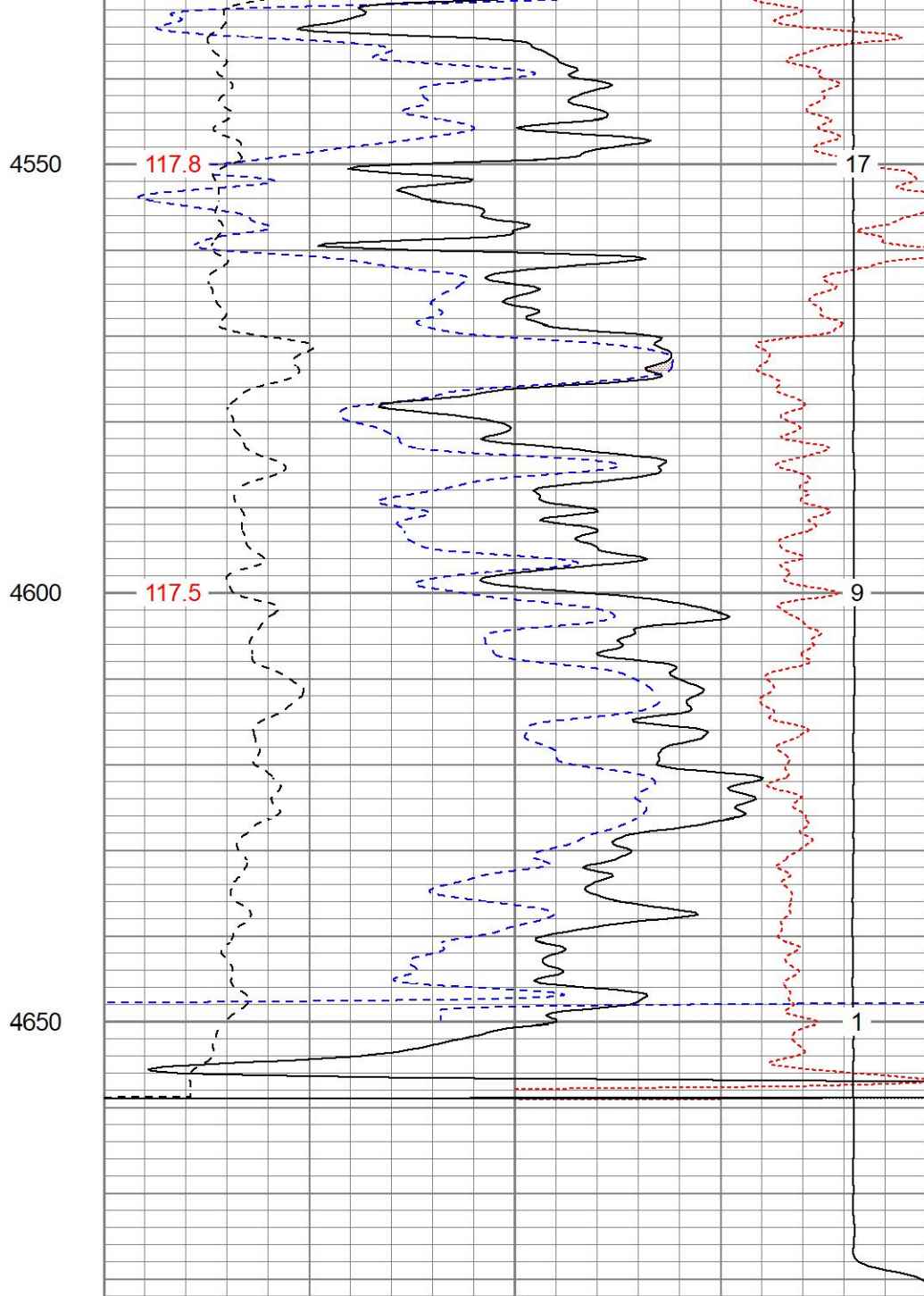








0	GR (GAPI)	150
6	DCAL (in)	16
6	BOREID (in)	16
	TBHV (ft3)	DEVI (deg)



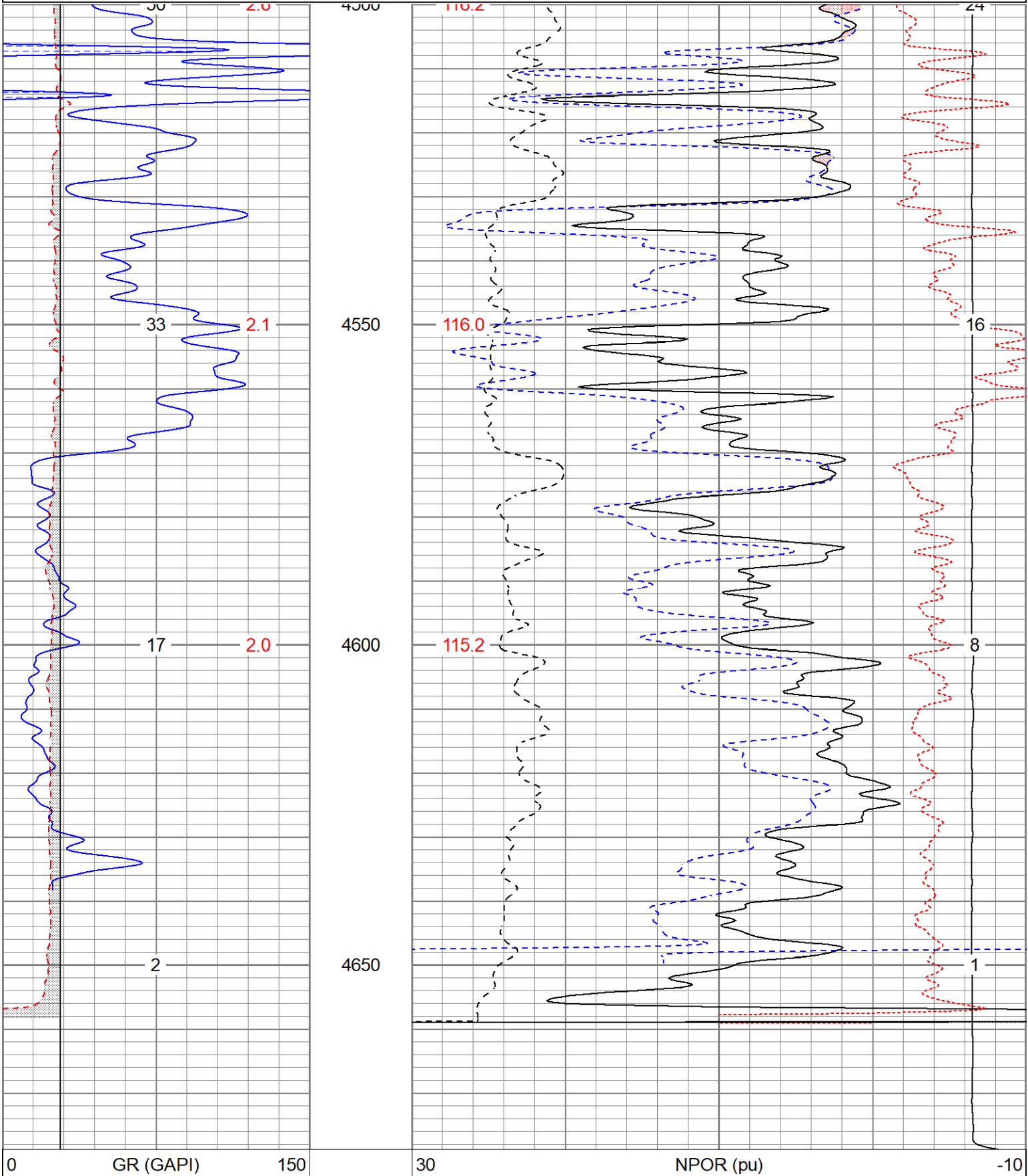
30	NPOR (pu)	-10
30	DPOR (pu)	-10
70	DPOR (pu)	30
0	Pe (barn)	10
0	TEMP (degF)	8000
-0.25	RHOC (g/cc)	0.25
LTEN (lb)	0	ABHV (ft3)



REPEAT SECTION

Database File pptruegrit#1oh.db
 Dataset Pathname pass1.1
 Presentation Format digital_kcdnl
 Dataset Creation Sun May 15 18:15:50 2022

0GR (GAPI)150			30NPOR (pu)-10		
6DCAL (in)16			30DPOR (pu)-10		
6BOREID (in)16			70DPOR (pu)30		
TBHV (ft3)DEVI (deg)			0Pe (barn)10-0.25RHOC (g/cc)0.25		
			TEMP8000LTEN (lb)0		
			(degF)ABHV (ft3)		



6			DCAL (in)		16	
6			BOREID (in)		16	
			TBHV (ft3)	DEVI (deg)		

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

Calibration Report									
Database File	pptruegrit#1oh.db								
Dataset Pathname	pass2								
Dataset Creation	Sun May 15 18:16:48 2022								
Dual Induction Calibration Report									
Serial-Model:					1842-ADM				
Surface Cal Performed:					Mon Sep 20 22:00:42 2021				
Downhole Cal Performed:					Mon Sep 20 22:00:24 2021				
After Survey Verification Performed:					Mon Sep 20 22:05:52 2021				
Surface Calibration									
Readings				References			Results		
Loop:	Air	Loop		Air	Loop		m	b	
Deep	0.018	0.672	V	0.000	350.000	mmho/m	535.475	-9.896	
Medium	0.003	0.769	V	0.000	400.000	mmho/m	522.607	-1.745	
Internal:	Zero	Cal		Zero	Cal		m	b	
Deep	0.018	0.672	V	0.000	350.000	mmho/m	535.240	-9.549	
Medium	0.003	0.768	V	0.000	550.000	mmho/m	718.637	-2.088	
Downhole Calibration									
Readings				References			Results		
Internal:	Zero	Cal		Zero	Cal		m	b	
Deep	-0.219	349.905	mmho/m	-0.343	349.810	mmho/m	1.000	-3.124	
Medium	-0.118	399.722	mmho/m	-0.226	399.745	mmho/m	1.000	-3.108	
Shallow	2.536	0.025	V	500.000	2.000	Ohm-m	180.330	-1.504	
After Survey Verification									
Readings				Targets			Results		
Internal:	Zero	Cal		Zero	Cal		m'	b'	
Deep	0.000	0.000	mmho/m	-0.219	349.905	mmho/m	1.000	-3.124	
Medium	0.000	0.000	mmho/m	-0.118	399.722	mmho/m	1.000	-3.108	
Shallow	0.000	0.000	Ohm-m	500.000	2.000	Ohm-m	1.000	0.000	
Admyr Lithodensity Calibration Report									
Serial-Model:					1C-C				
Source:					Blue2				
Master Calibration Performed:					Tue Oct 20 08:37:42 2020				
Master Calibration									
Density			Far Detector		Near Detector				
Magnesium	1.670	g/cc	6640.15	4353.97	cps				
Aluminium	2.640	g/cc	1651.98	2729.31	cps				

Aluminium+Sleeve	2.640	g/cc	1651.98	2729.31	cps
Spine Angle = 71.44			Density/Spine Ratio = 0.661		
	PE		NLITH	NHARD	
Magnesium	1.900	barn	1410.00	1000.00	cps
Aluminium	2.400	barn	1101.00	918.50	cps
Aluminium+Sleeve	5.000	barn	656.00	951.00	cps
M = 0.448			B = -0.112	R = 0.999	
	Size		Reading		
Small Ring	8.00	in	8.61	V	
Large Ring	14.30	in	12.40	V	

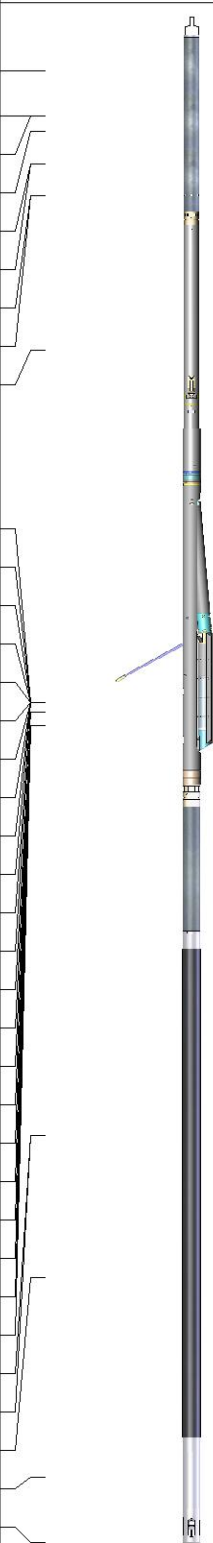
Neutron Calibration Report					
Serial Number:	AD5139				
Tool Model:	ADMY5139				
Performed:	(Not Performed)				
Calibrator Value:	1	NAPI			
Calibrator Reading:	1	cps			
Sensitivity:	1	NAPI/cps			

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				
Performed:	Wed May 5 19:21:08 2021				
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)
			CHD-STD	0.50	1.69	1.00
GR	38.31					
ACCY	37.15		ADT-WMC (WithMC)	4.58	3.50	120.00
ACCX	37.15		Admyr Telemetry With Mudcell			
SSTAT	36.73					
PSTAT	35.90					
ASTAT	35.90					
GRD	35.06		NEU-ADMY5139 (AD5139)	5.65	3.50	50.00
TEMP	35.06		Admyr NEU DIGITAL			
NEU	31.03					
LSTAT	21.88					
LS_HV	21.86		ADT1LITH-C (1C)	9.29	3.50	240.00
LS8	21.86		Real Time Litho Tool			
LS7	21.86					
LS6	21.86					
LS5	21.86					
NHARD	21.86					
LSD	21.86					
LS2	21.86					
NLITH	21.86					
LSV	21.61					
DCAL	21.61					
SS_HV	21.27					
SSV	21.27					
SS8	21.27					
SS7	21.27					
SS6	21.27		DIL-ADM (1842)	19.71	4.00	300.00
SS5	21.27		Dual Induction			
SS4	21.27					
SSD	21.27					
SS2	21.27					
SS1	21.27					
SP	10.60					
CILD	10.60					
CILM	6.89					
RLL3	1.70					
TR_Mon	0.00					

Dataset:	pptruegrit#1oh.db: field/well/run1/pass2
Total length:	39.73 ft
Total weight:	711.00 lb
O.D.:	4.00 in