COMPENSATED DENSITY NEUTRON LOG

Company PATTERSON ENERGY LLC
Well SOEKEN 'A' #8
Field KRAFT PRUSIA
County BARTON State KANSAS

Location: API # : 15 009 26412

770' FSL & 1154' FWL

SEC 15 TWP 17S RGE 11W

Other Services

ML
DIL

Elevation

K.B. 1849'
D.F. 1847'
G.L. 1841'

Permanent Datum Ground Level Elevation 1841'
Log Measured From KB 8' AGL
Drilling Measured From KB

Date	11/21/23		
Run Number	One		
Depth Driller	3549		
Depth Logger	3548		
Bottom Logged Interval	3526		
Top Log Interval	2600		
Casing Driller	8 5/8"@680'		
Casing Logger	680'		
Bit Size	7 7/8"		
Type Fluid in Hole	Chemical		
Density / Viscosity	9.2/56		
pH / Fluid Loss	9.5/9.2		
Source of Sample	Pit		
Rm @ Meas. Temp	2.0@70degf		
Rmf @ Meas. Temp	1.5@70degf		
Rmc @ Meas. Temp	2.4@70degf		
Source of Rmf / Rmc	Calculated		
Rm @ BHT	1.4@100degf		
Time Circulation Stopped	5:00 AM		
Time Logger on Bottom	8:00 AM		
Maximum Recorded Temperature	100degf		
Equipment Number	T-605		
Location	HAYS, KS.		
Recorded By	COLBY DREILING		
Witnessed By	AUSTIN KLAUS		

<<< Fold Here >>>

Comments

CLAFLIN NORTH ON 130TH AVE 3.5 MILES, EAST 1/4 MILE, THEN NORTH INTO.

Thanks for using Gemini Wireline LLC
785-625-1182

MAIN PASS

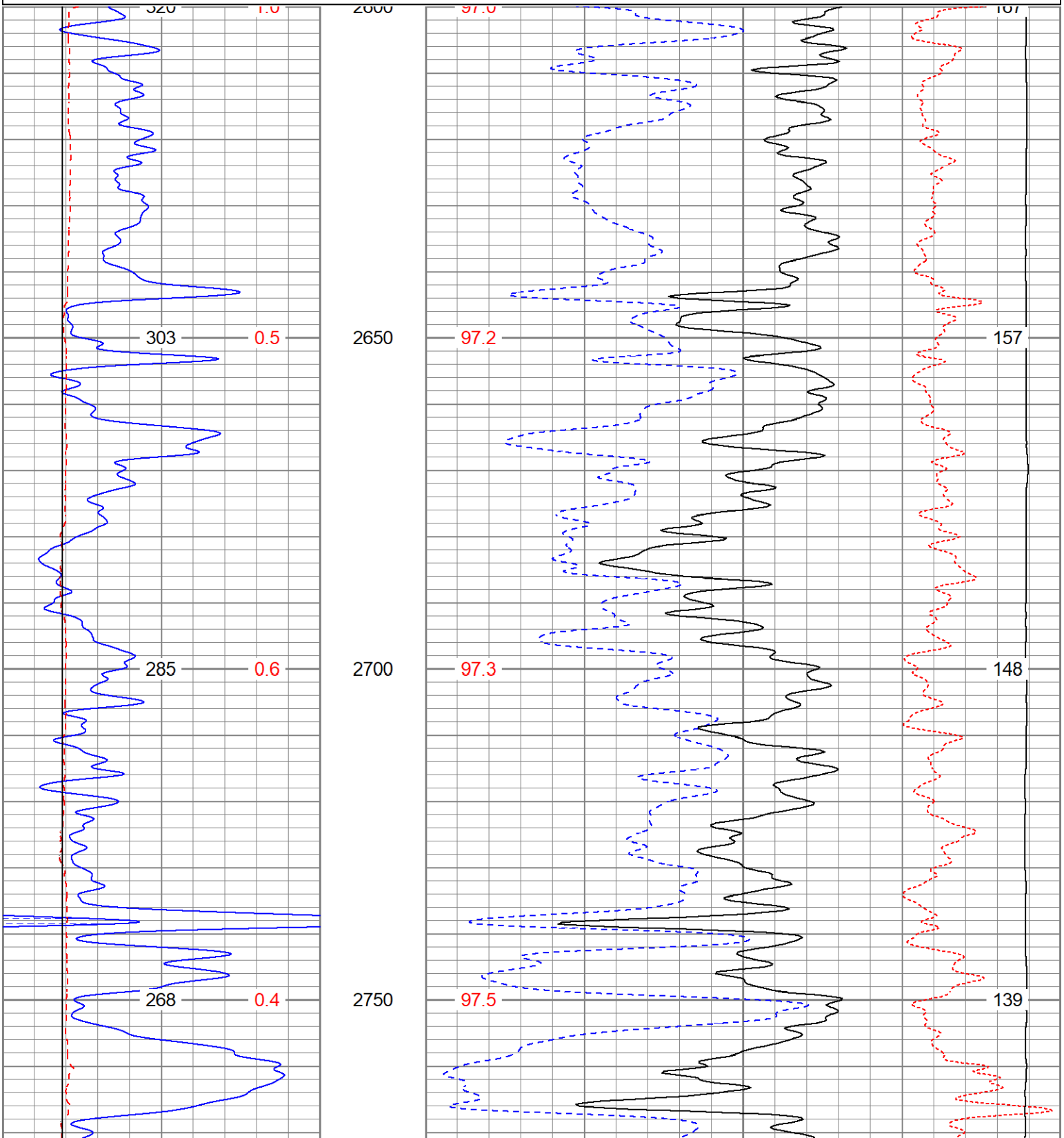
Database File	pesoakena#8oh.db
Dataset Pathname	pass3.1
Presentation Format	digital_kcdnl
Dataset Creation	Tue Nov 21 10:05:05 2023
Charted by	Depth in Feet scaled 1:240

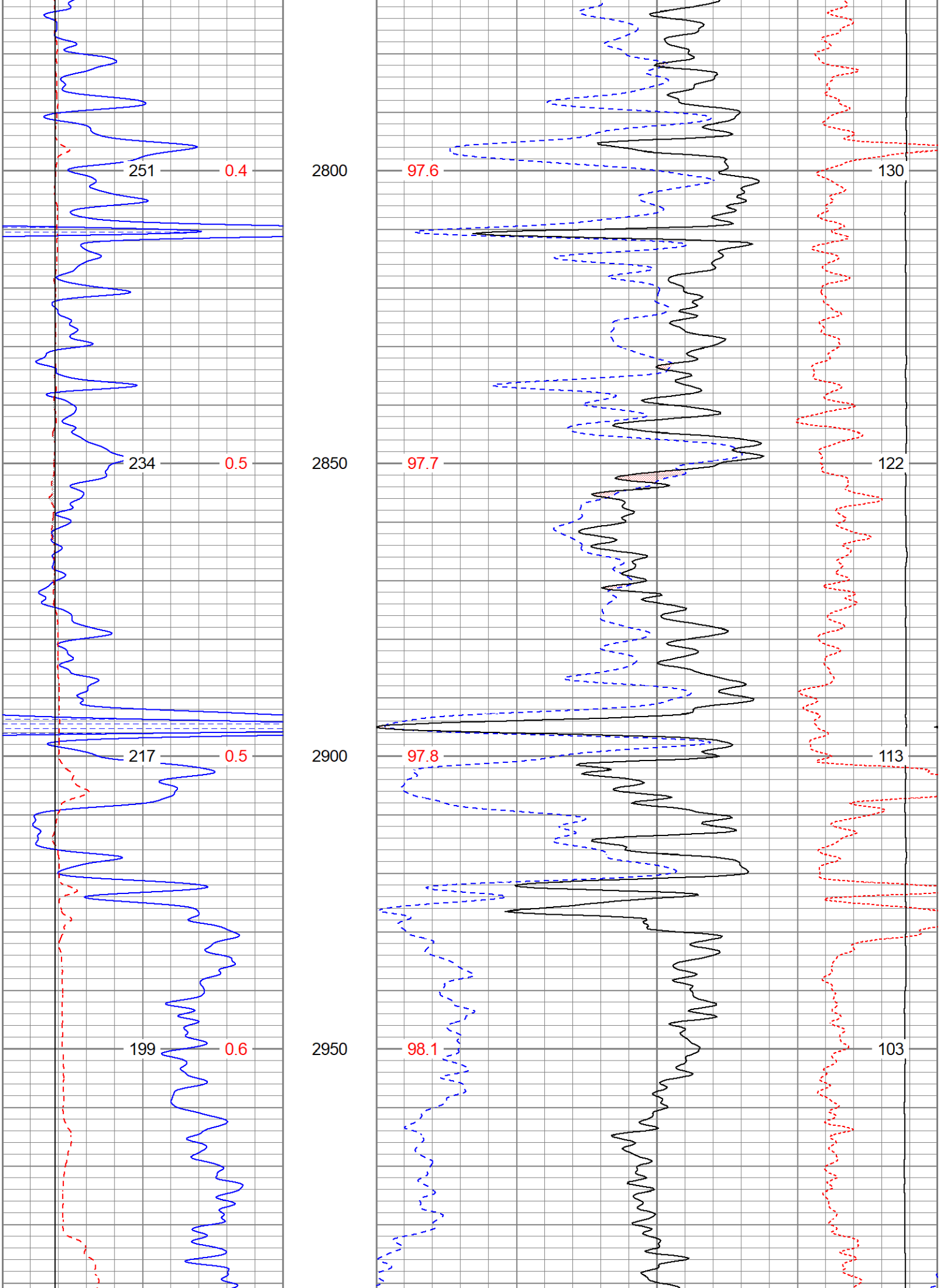
0	GR (GAPI)	150
6	DCAL (in)	16
6	BOREID (in)	16

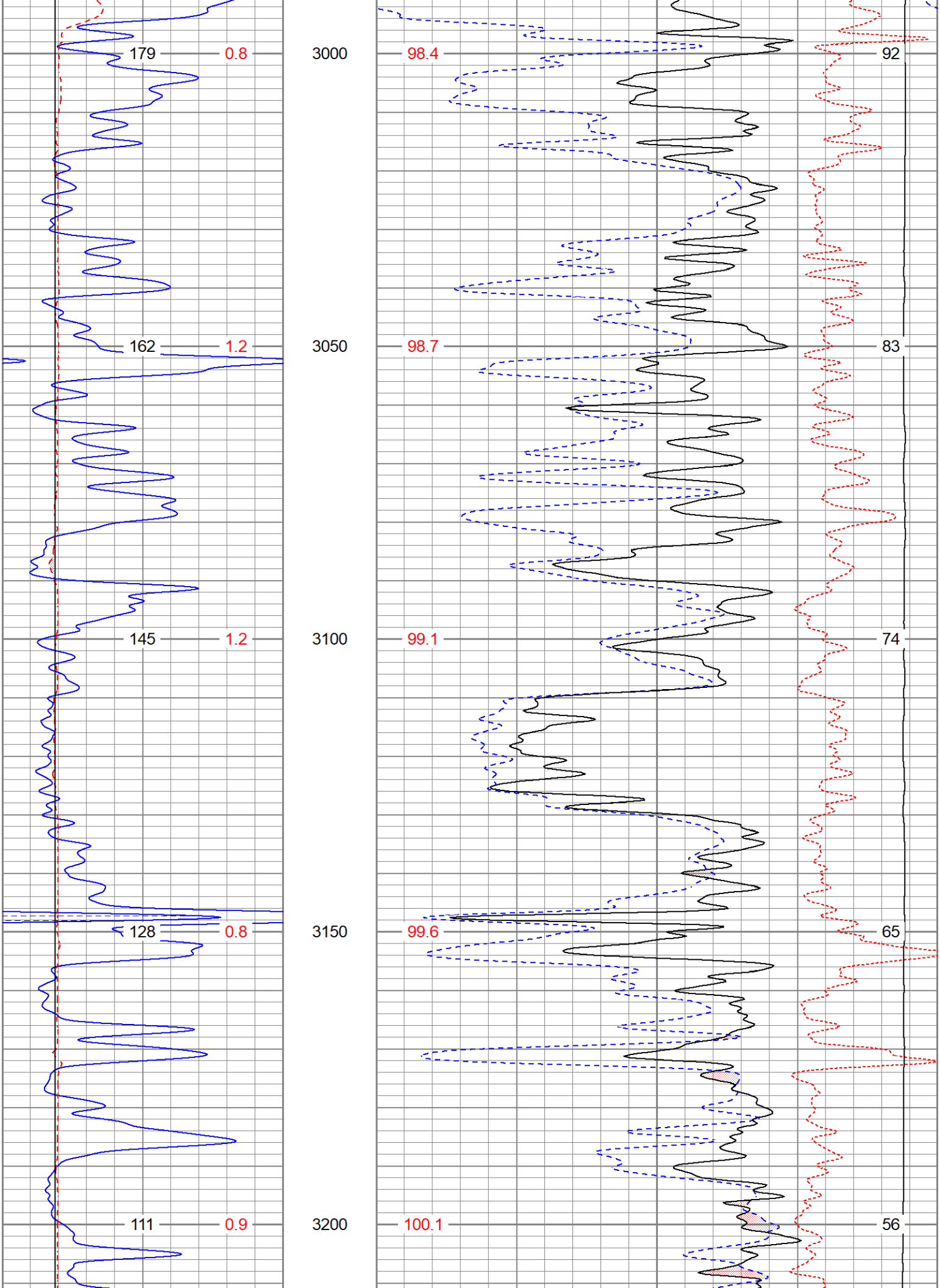
TBHV (ft3)	DEVI (deg)	

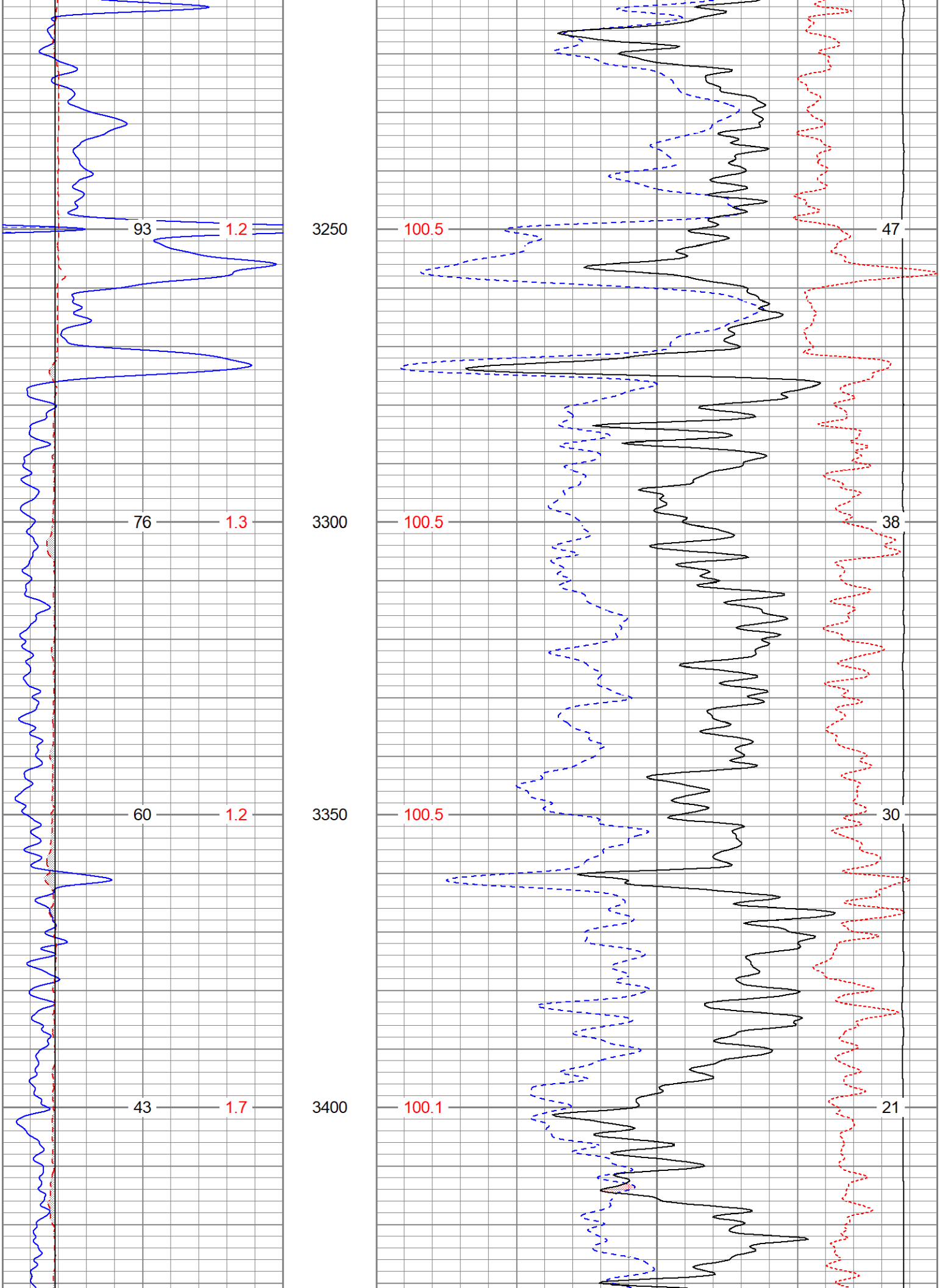
30	NPOR (pu)	-10
30	DPOR (pu)	-10
70	DPOR (pu)	30

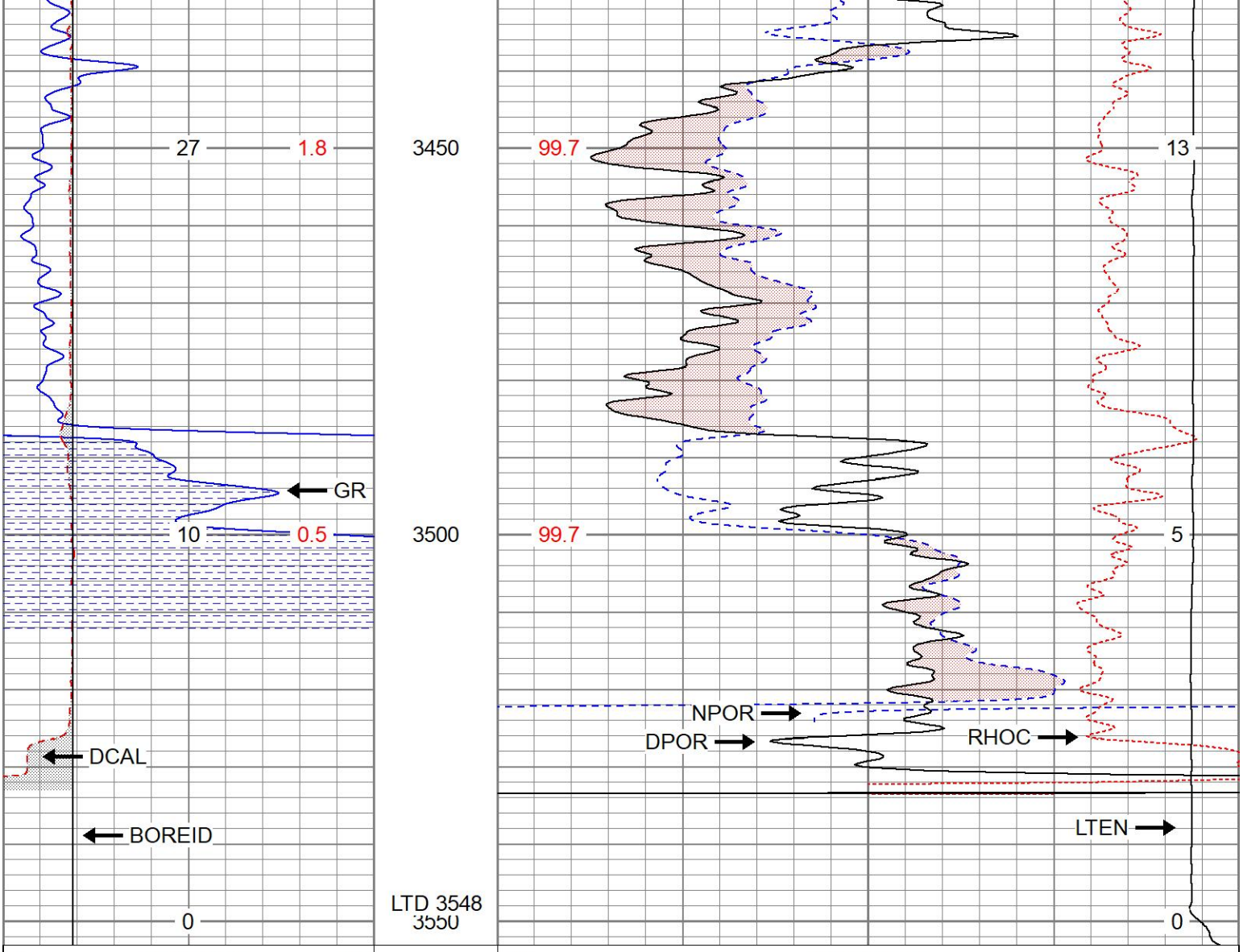
TEMP (degF)	-0.25	RHOC (g/cc) 0.25
	8000	LTEN (lb) 0
		ABHV (ft3)




251
0.4
2800
97.6
130
234
0.5
2850
97.7
122
217
0.5
2900
97.8
113
199
0.6
2950
98.1
103


179
0.8
3000
98.4
92
162
1.2
3050
98.7
83
145
1.2
3100
99.1
74
128
0.8
3150
99.6
65
111
0.9
3200
100.1
56


93
1.2
3250
100.5
47
76
1.3
3300
100.5
38
60
1.2
3350
100.5
30
43
1.7
3400
100.1
21



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

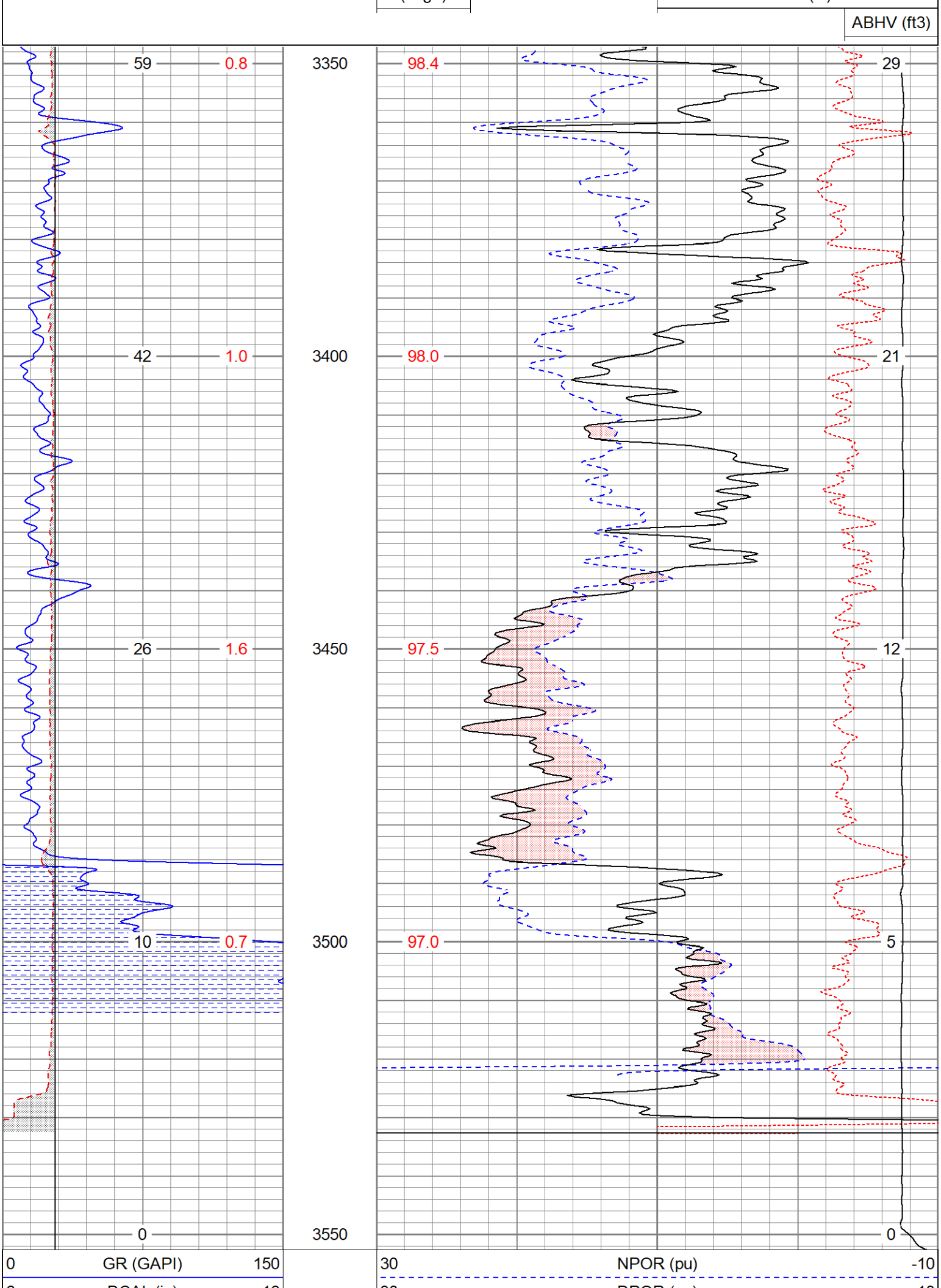
30	NPOR (pu)	-10
30	DPOR (pu)	-10
70	DPOR (pu)	30
TEMP (degF)	-0.25 RHOC (g/cc)	0.25
	8000 LTEN (lb)	0
	ABHV (ft3)	

REPEAT PASS

Database File	pesoakena#8oh.db
Dataset Pathname	pass2.1
Presentation Format	digital_kcdnl
Dataset Creation	Tue Nov 21 10:03:13 2023
Charted by	Depth in Feet scaled 1:240

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
TEMP (degF)	-0.25 RHOC (g/cc)	0.25
	8000 LTEN (lb)	0
	ABHV (ft3)	


ABHV (ft3)
59
0.8
42
1.0
26
1.6
10
0.7
0
3350
3400
3450
3500
3550
98.4
98.0
97.5
97.0
29
21
12
5
0
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)	TEMP (degF)		-0.25	RHOC (g/cc)	0.25
					8000	LTEN (lb)	0
							ABHV (ft3)

Calibration Report

Database File pesoakena#8oh.db
Dataset Pathname pass3.1
Dataset Creation Tue Nov 21 10:05:05 2023

Dual Induction Calibration Report

Serial-Model: 1842-ADM
Surface Cal Performed: Mon Sep 20 22:00:42 2021
Downhole Cal Performed: Thu Sep 14 13:06:48 2023
After Survey Verification Performed: Thu Sep 14 13:02:29 2023

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	-0.210	349.810	mmho/m	-0.343	349.810	mmho/m	1.000	-0.133
Medium	6.952	396.760	mmho/m	-0.226	399.745	mmho/m	1.026	-7.360
Shallow	2.495	0.026	V	500.000	2.000	Ohm-m	201.711	-3.319

After Survey Verification

	Readings			Targets			Results	
Internal:	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	32.030	5.643	mmho/m	1.000	-0.133
Medium	0.000	0.000	mmho/m	6.952	396.760	mmho/m	1.026	-7.360
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 Aug 30 10:20:37 2022

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.670	g/cc	6362.49	3546.71	cps
Aluminium	2.640	g/cc	1733.54	2362.69	cps
Aluminium+Sleeve	2.617	g/cc	1657.01	2197.69	cps

Spine Angle = 72.65

Density/Spine Ratio = 0.712

	PE		NLITH	NHARD	
Magnesium	2.000	barn	2520.00	1620.00	cps
Aluminium	3.000	barn	1926.00	1699.00	cps
Aluminium+Sleeve	5.000	barn	915.00	1230.00	cps

M = 0.370 B = -0.079 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:	Sat Nov 11 16:49:39 2023	
Calibrator Value:	1.0	GAPI

Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps