COMPENSATED DENSITY NEUTRON LOG

Company PATTERSON ENERGY
Well RIEMANN J #7
Field KRAFT-PRUSA
County BARTON State KANSAS

Location: API # : 15-009-26459

330' FSL & 330' FEL

SEC 4 TWP 17S RGE 11W

Other Services

ML
DIL

Elevation

K.B. 1875
D.F. 1873
G.L. 1867

Permanent Datum	Ground Level	Elevation	1867
Log Measured From	KB 8' AGL		
Drilling Measured From	KB		

Date	4/20/26		
Run Number	One		
Depth Driller	3375		
Depth Logger	3375		
Bottom Logged Interval	3355		
Top Log Interval	2400		
Casing Driller	8 5/8"@716'		
Casing Logger	716		
Bit Size	7 7/8"		
Type Fluid in Hole	Chemical		
Density / Viscosity	8.9/48		
pH / Fluid Loss	10.0/8.8		
Source of Sample	Pit		
Rm @ Meas. Temp	.65@68degf		
Rmf @ Meas. Temp	.49@68degf		
Rmc @ Meas. Temp	.78@68degf		
Source of Rmf / Rmc	Calculated		
Rm @ BHT	.46@96degf		
Time Circulation Stopped	5:30 AM		
Time Logger on Bottom	7:00 AM		
Maximum Recorded Temperature	96degf		
Equipment Number	T-605		
Location	Hays, KS.		
Recorded By	GUS PFANENSTIEL		
Witnessed By	JASON T. ALM		

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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

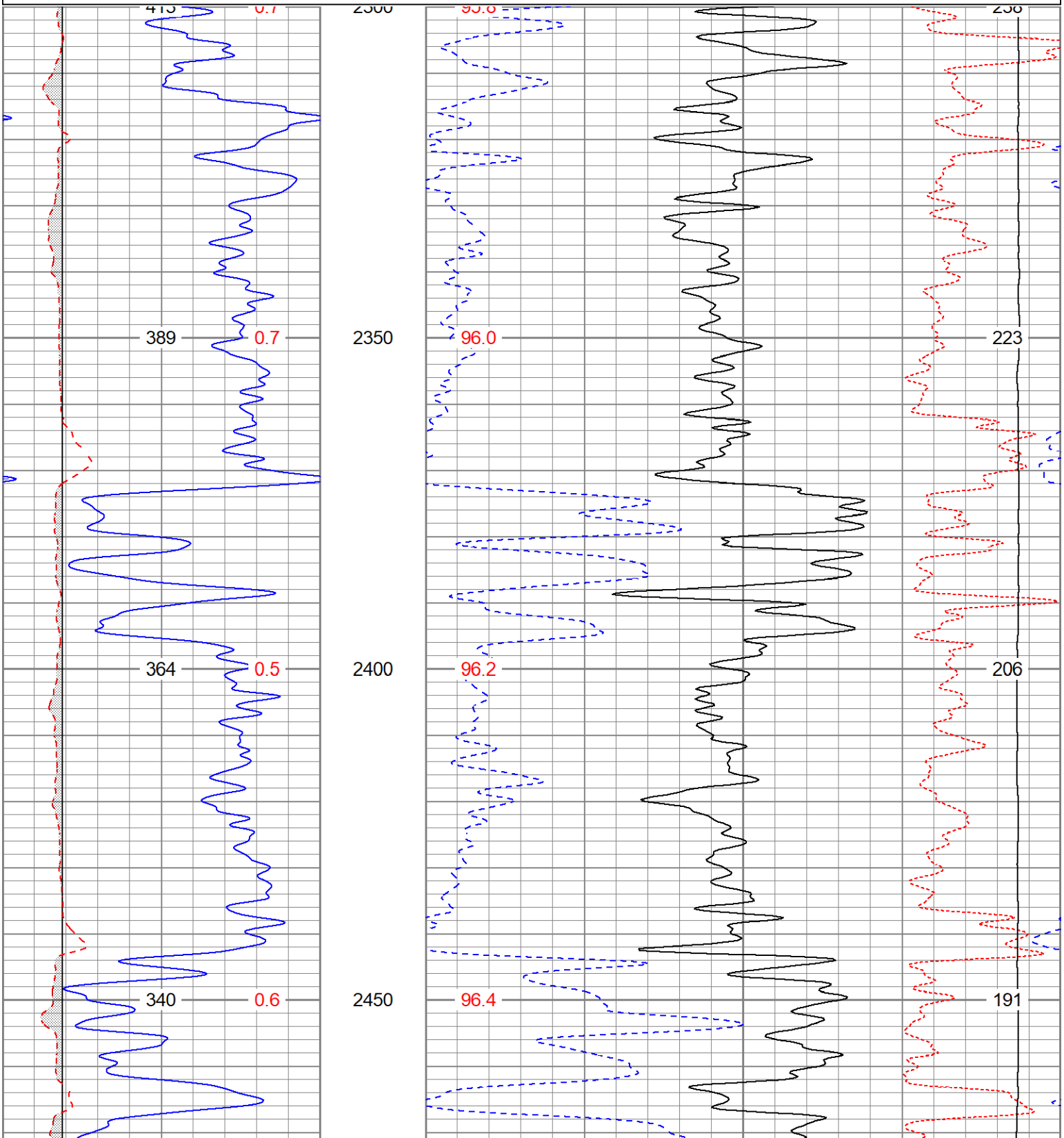
NORTH OF CLAFLIN 5 MILES, WEST 1/32,
NORTH INTO.
Thanks for using Gemini Wireline LLC
785-625-1182

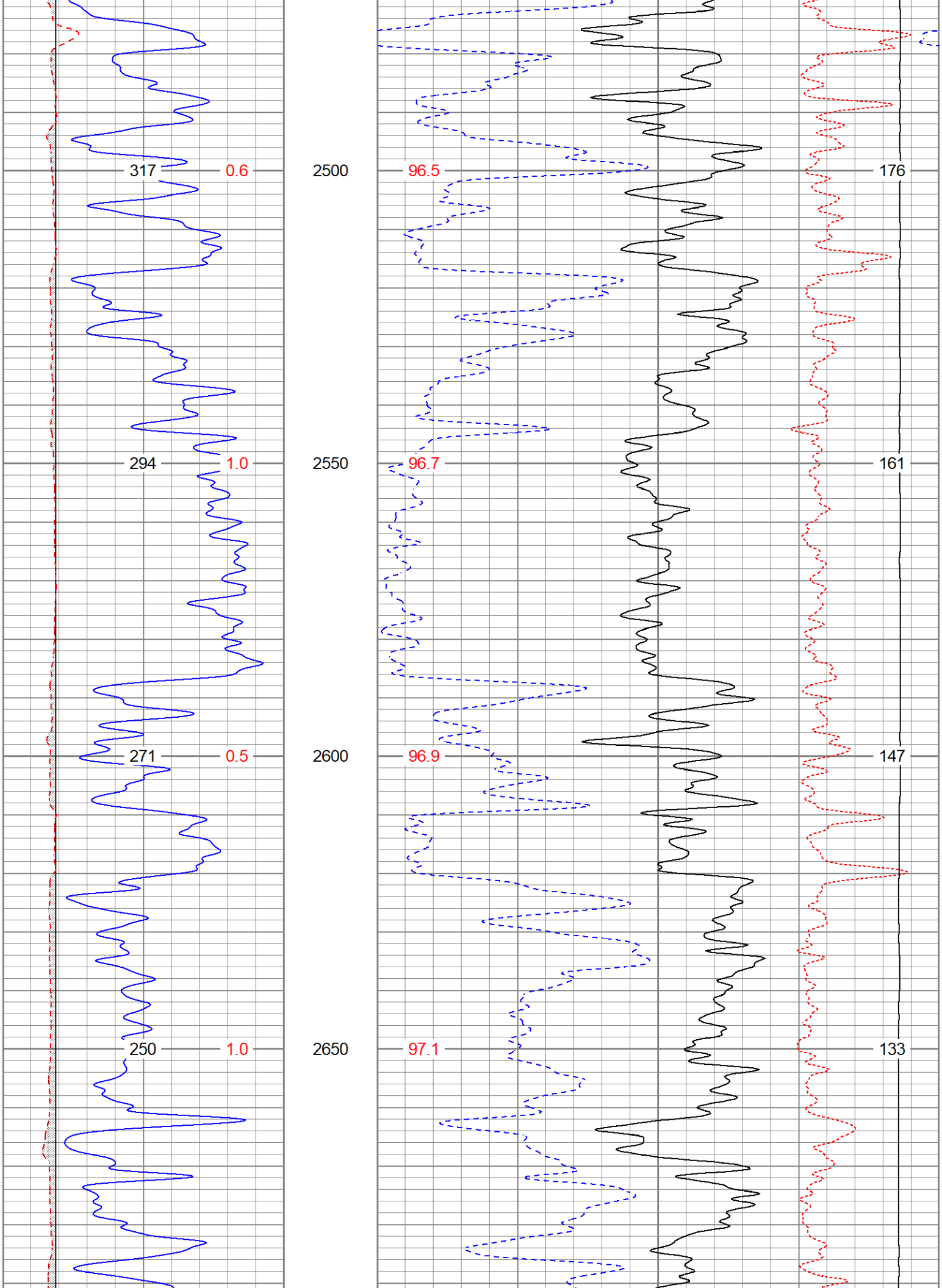
MAIN PASS

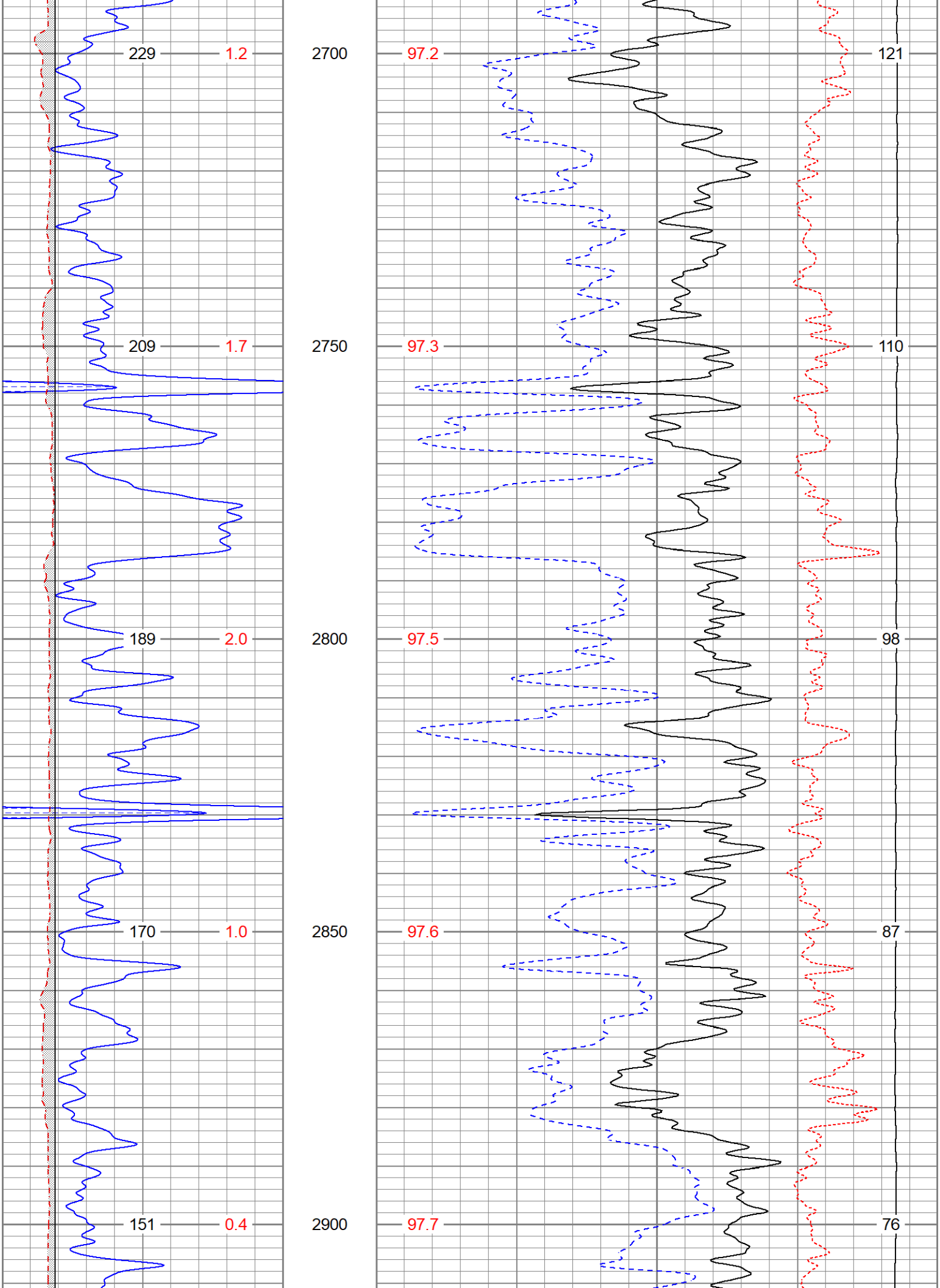
Database File	periemannj#7oh.db
Dataset Pathname	pass3POR
Presentation Format	digital_kcdnl
Dataset Creation	Mon Apr 20 09:00:13 2026
Charted by	Depth in Feet scaled 1:240

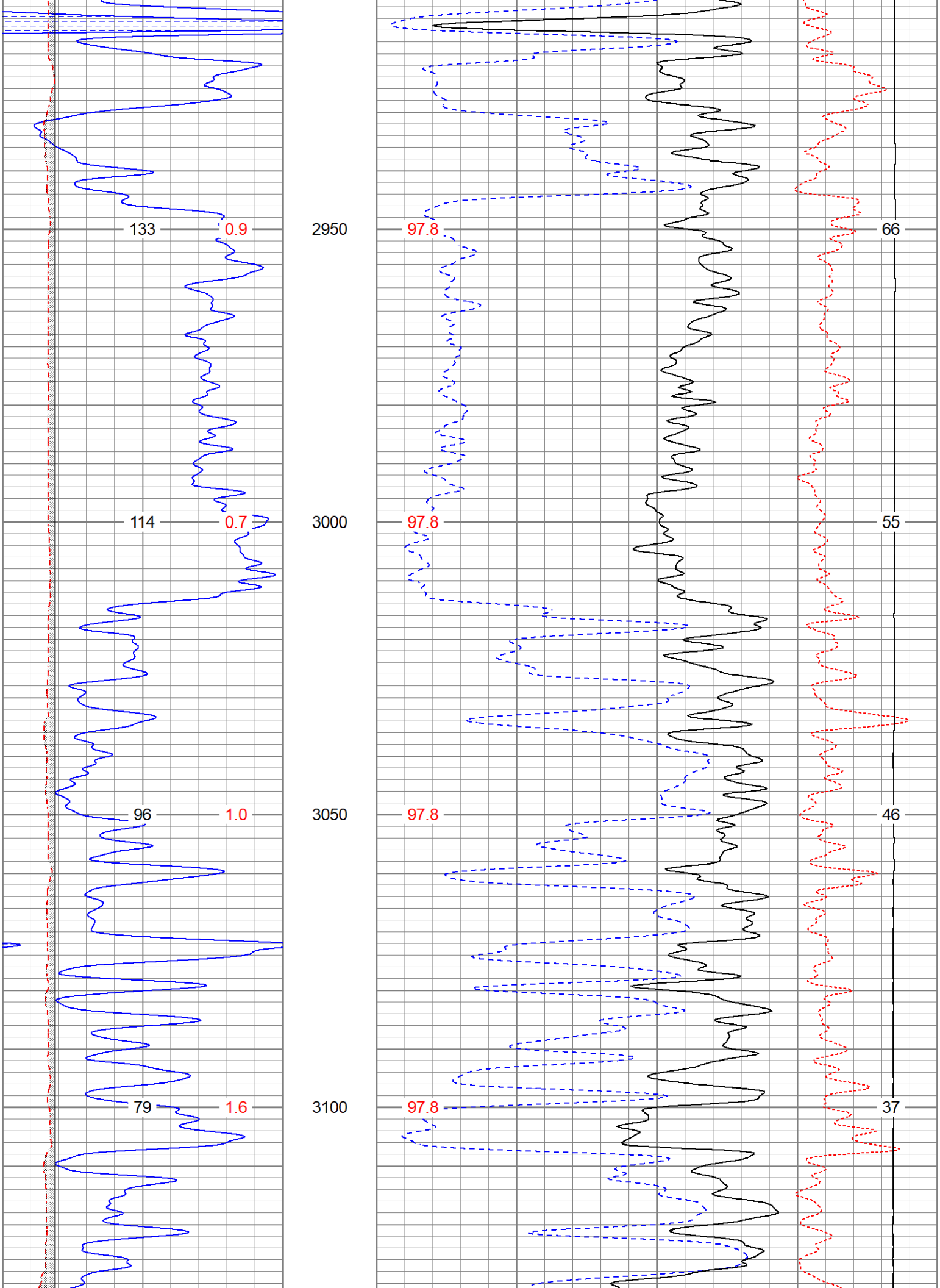
0	GR (GAPI)	150
6	BOREID (in)	16
6	MCAL (in)	16
	TBHV (ft3) / DEVI (deg)	

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)	




317
0.6
2500
96.5
176
294
1.0
2550
96.7
161
271
0.5
2600
96.9
147
250
1.0
2650
97.1
133


229
1.2
2700
97.2
121
209
1.7
2750
97.3
110
189
2.0
2800
97.5
98
170
1.0
2850
97.6
87
151
0.4
2900
97.7
76


133
0.9
2950
97.8
66
114
0.7
3000
97.8
55
96
1.0
3050
97.8
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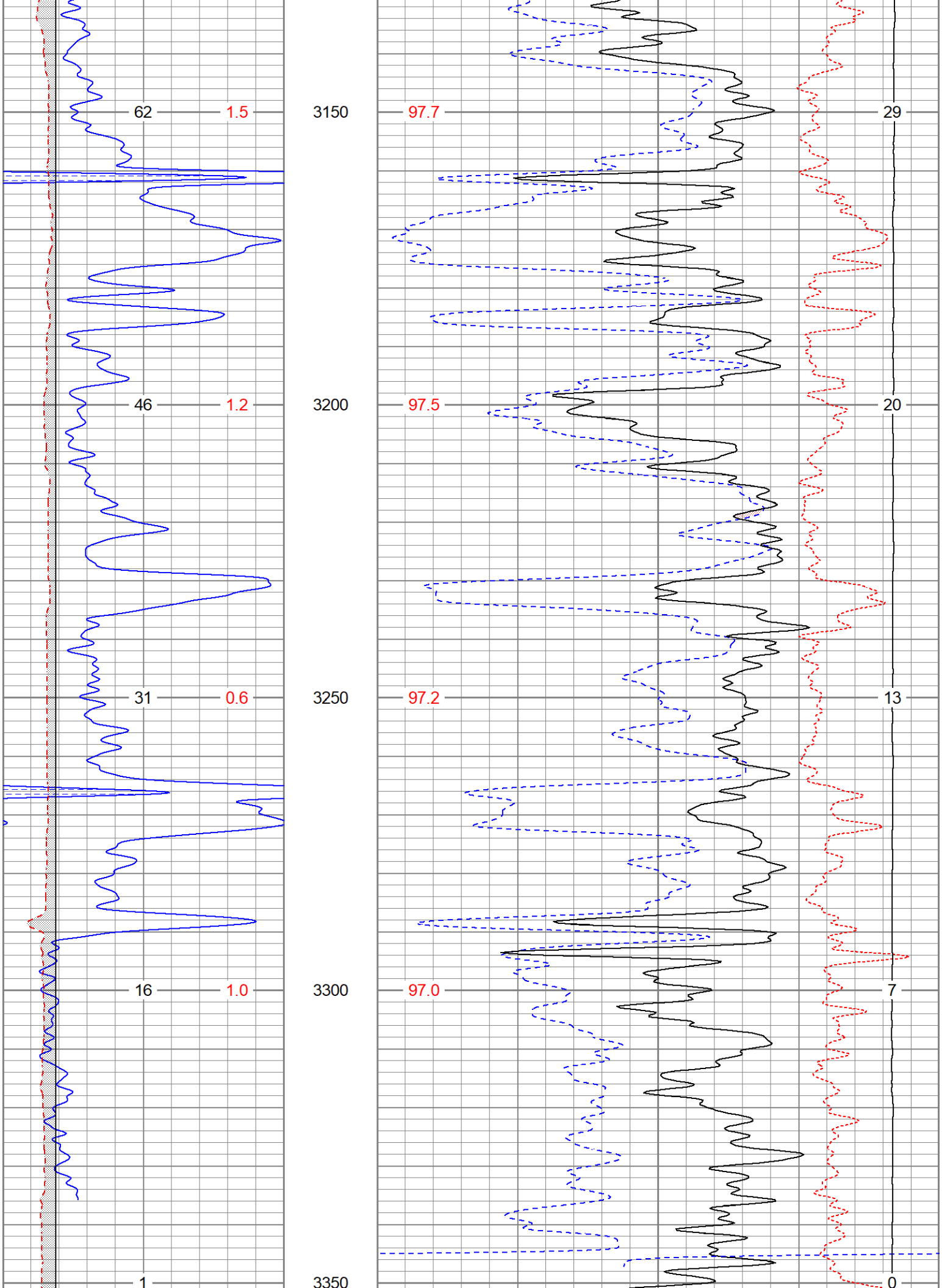
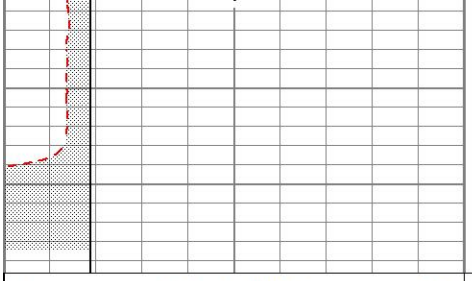
1.6
3100
97.8
37


62
1.5
3150
97.7
29
46
1.2
3200
97.5
20
31
0.6
3250
97.2
13
16
1.0
3300
97.0
7
1
3350
0



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



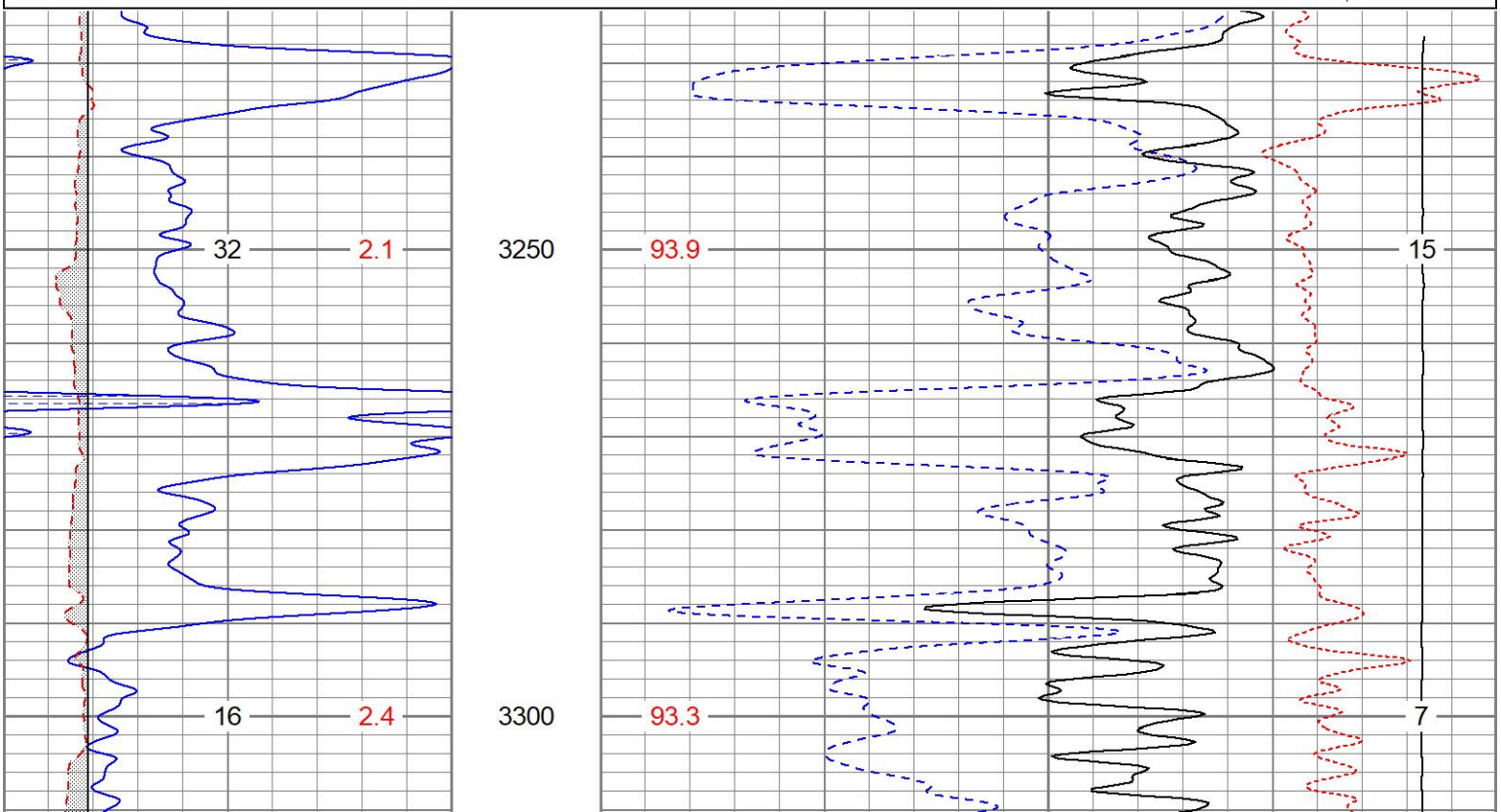
30	NPOR (pu)	-10
30	DPOR (pu)	-10
70	DPOR (pu)	30
TEMP (degF)	-0.25 RHOC (g/cc)	0.25
	8000 LTEN (lb)	0
	ABHV (ft3)	

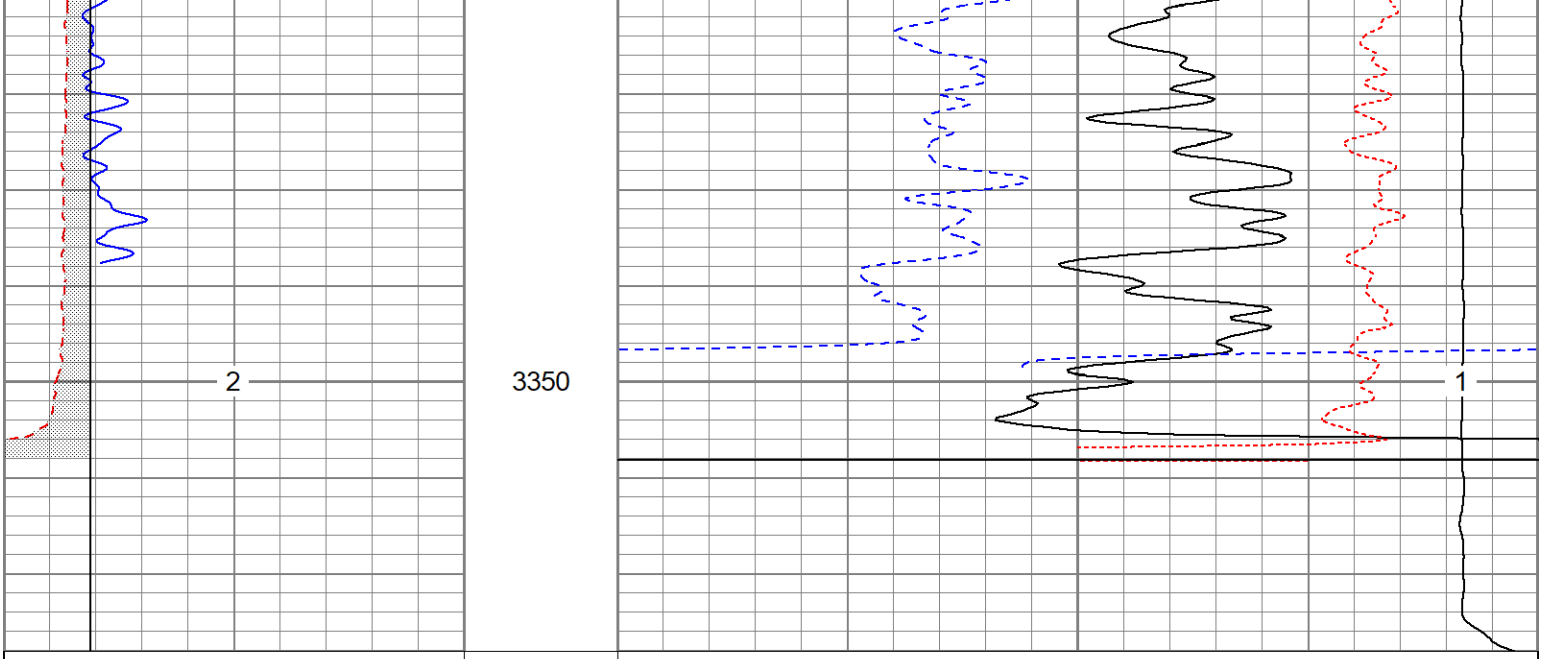
REPEAT SECTION

Database File	periemannj#7oh.db
Dataset Pathname	pass2.1
Presentation Format	digital_kcdnl
Dataset Creation	Mon Apr 20 08:27:52 2026
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)	





Calibration Report

Database File	periemannj#7oh.db
Dataset Pathname	pass2.1
Dataset Creation	Mon Apr 20 08:27:52 2026

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

Internal:	Readings Zero	Readings Cal		Targets Zero	Targets Cal		Results m'	Results 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 Oct 7 09:19:34 2025

Master Calibration

	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	
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