COMPENSATED DENSITY NEUTRON LOG

Company Ressler Well Service, Inc.
Well McLeod #10-1
Field Spivey-Grabs-Basil
County Kingman State KS

Location: API # : 15 095 22300

2975' FSL & 2120' FEL

SEC 10 TWP 30S RGE 8W

Other Services
ML
DIL

Elevation
K.B. 1511'
D.F. 1510'
G.L. 1501'

Permanent Datum	Ground Level	Elevation 1501'
Log Measured From	KB 10' AGL	
Drilling Measured From	KB	

Company Ressler Well Service, Inc.
Well McLeod #10-1
Field Spivey-Grabs-Basil
County Kingman
State KS

Date	10-10-15		
Run Number	One		
Depth Driller	4280'		
Depth Logger	4282'		
Bottom Logged Interval	4259'		
Top Log Interval	3100'		
Casing Driller	220'		
Casing Logger	220'		
Bit Size	7 7/8"		
Type Fluid in Hole	Chemical Mud		
Density / Viscosity	9.5/44		
pH / Fluid Loss	10/11.2		
Source of Sample	Pit		
Rm @ Meas. Temp	1.4@62degf		
Rmf @ Meas. Temp	1.05@62degf		
Rmc @ Meas. Temp	1.68@62degf		
Source of Rmf / Rmc	Calculated		
Rm @ BHT	.72@120degf		
Time Circulation Stopped	6:45 a.m.		
Time Logger on Bottom	8:45 a.m.		
Maximum Recorded Temperature	120 degf		
Equipment Number	T127		
Location	Hays, KS.		
Recorded By	Gus Pfanenstiel		
Witnessed By	Mr. Terry McLeod	Mr. Larry Ressler	

Comments

Thank you for using Gemini Wireline
785-625-1182

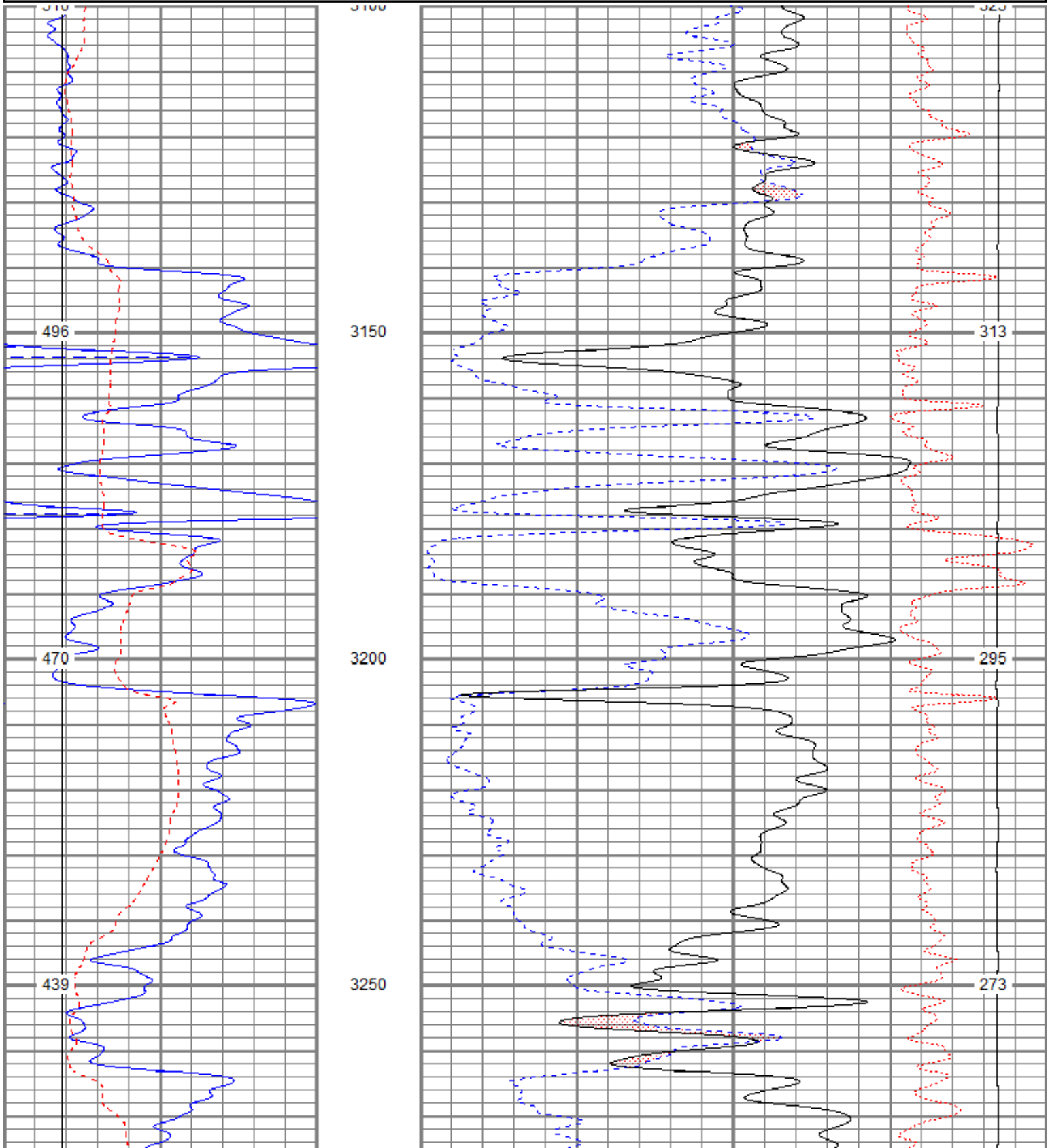
Zenda East 6 Miles, North 1 mile,
West 1/3 mile, South into after bridge.

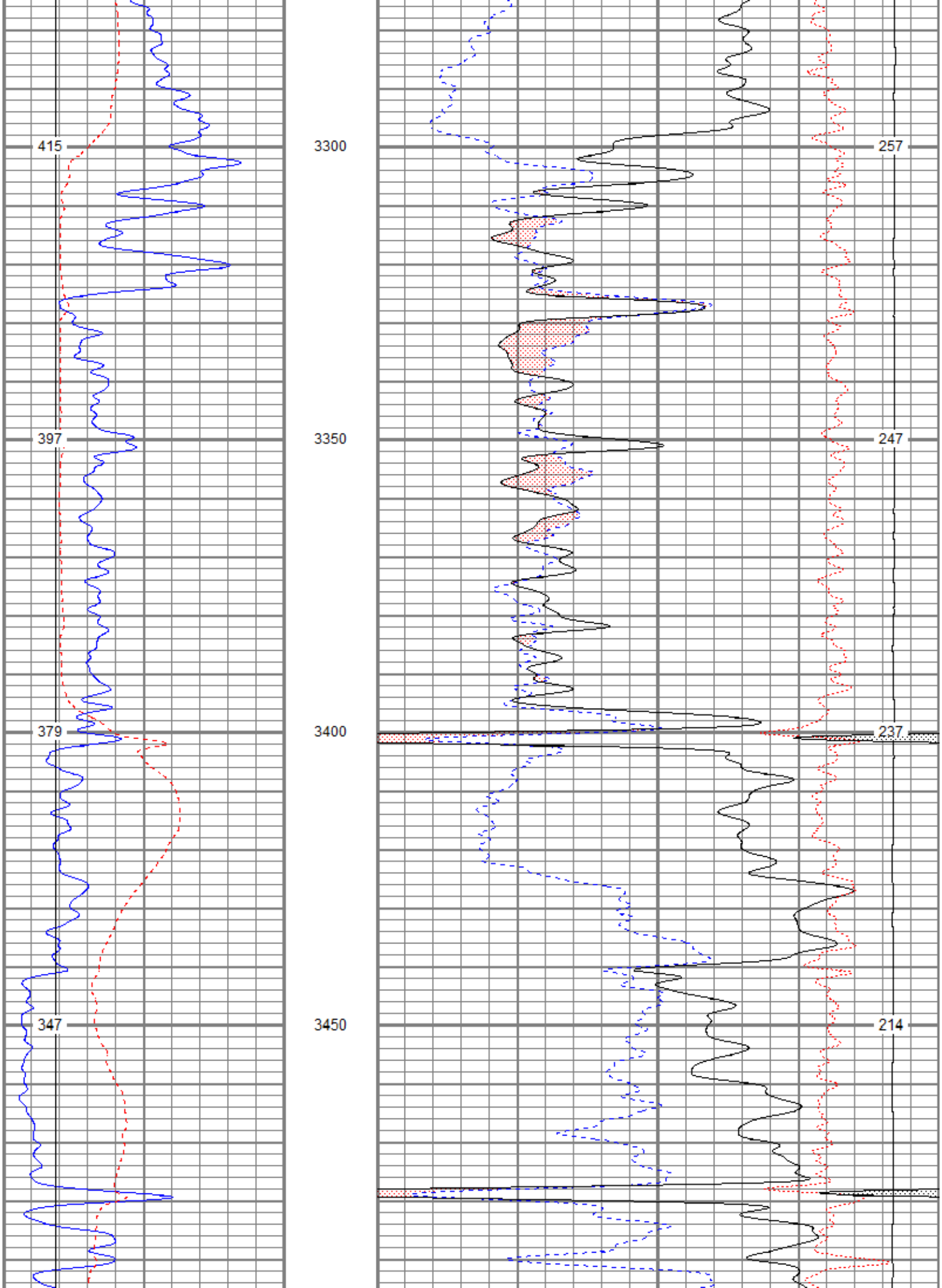
Main Pass

Database File	rwmcleod#10-1oh.db
Dataset Pathname	pass2.1
Presentation Format	kcdnl
Dataset Creation	Sat Oct 10 09:20:06 2015
Charted by	Depth in Feet scaled 1:240

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

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

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3450
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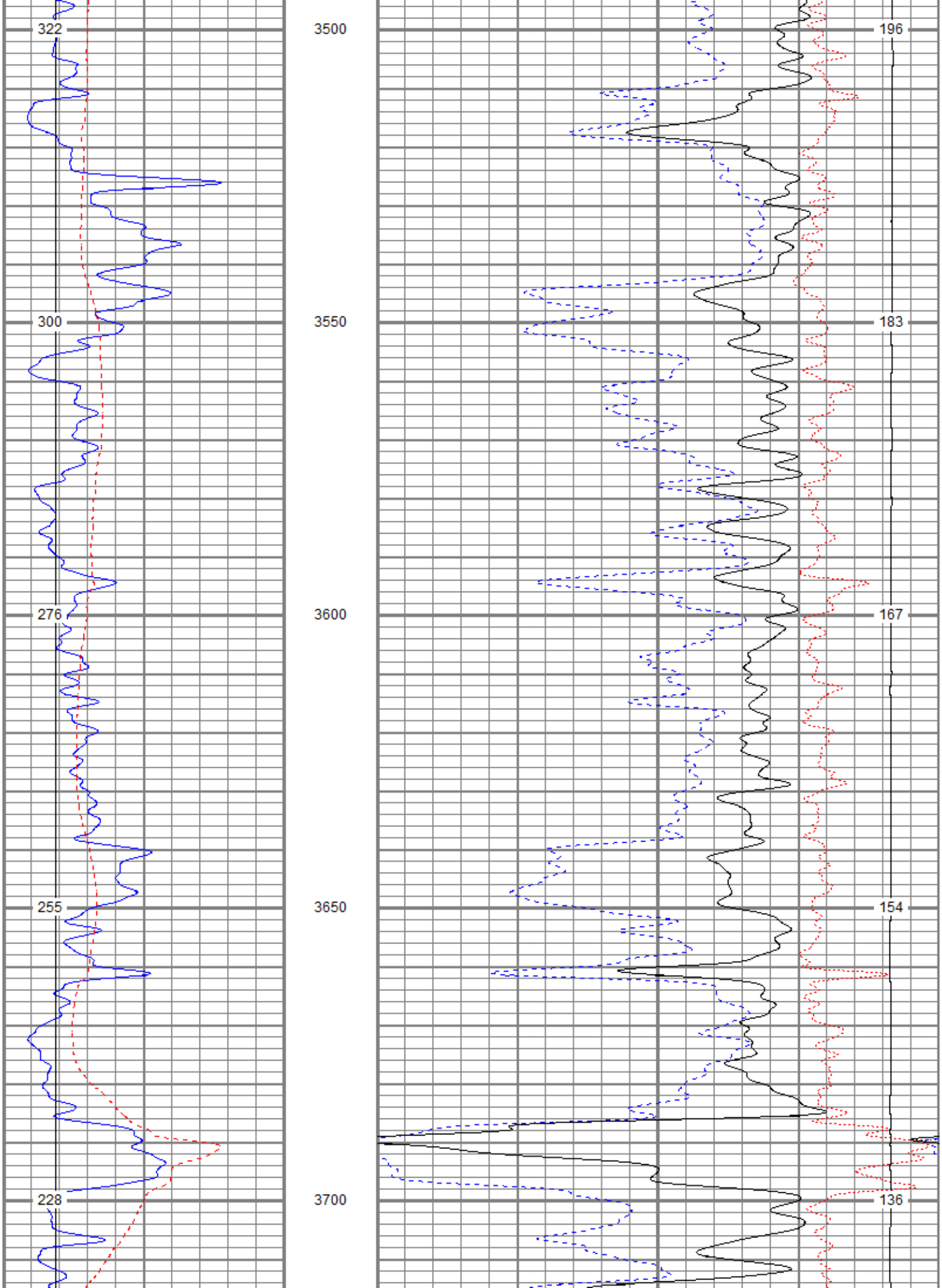
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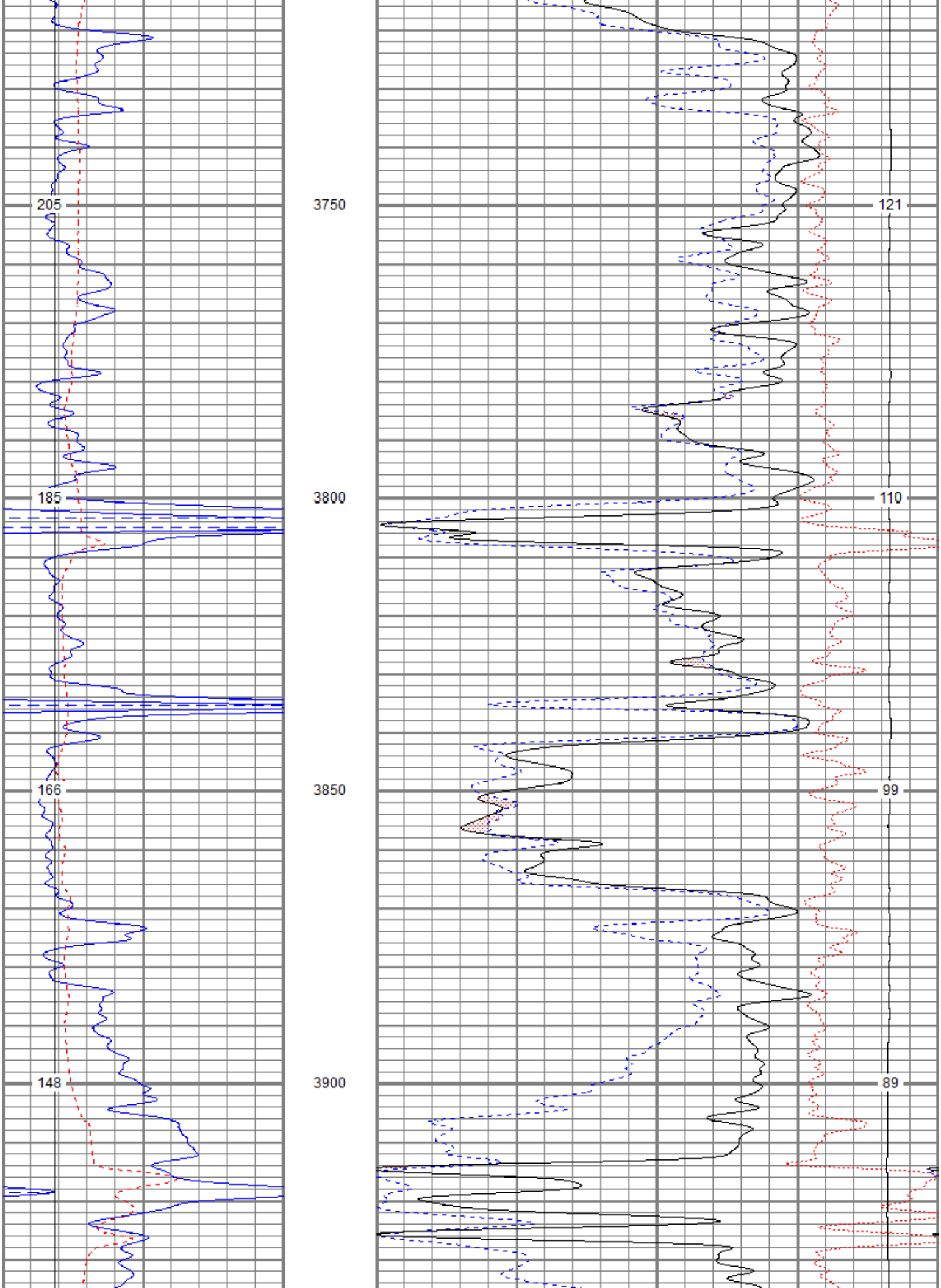
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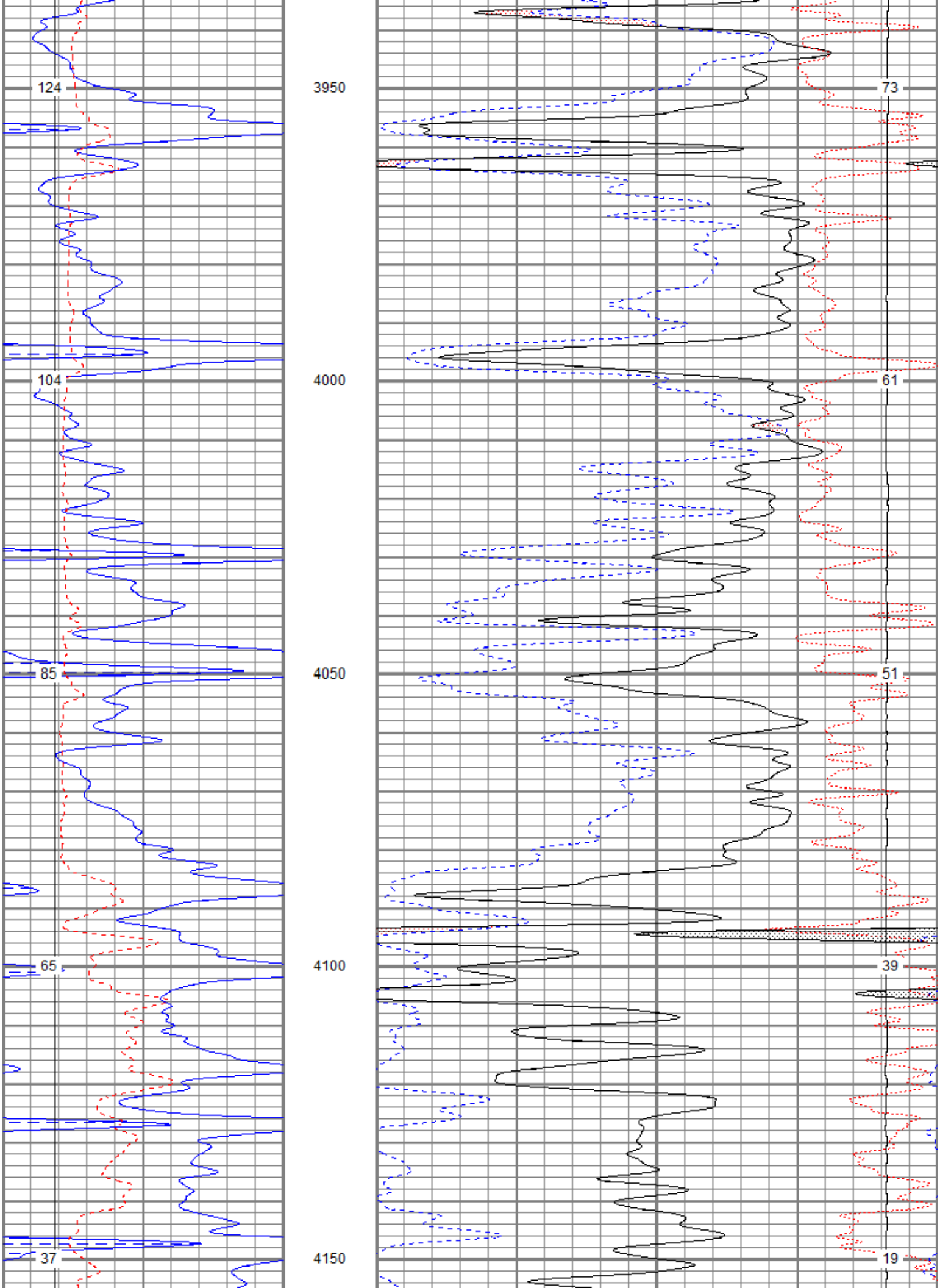
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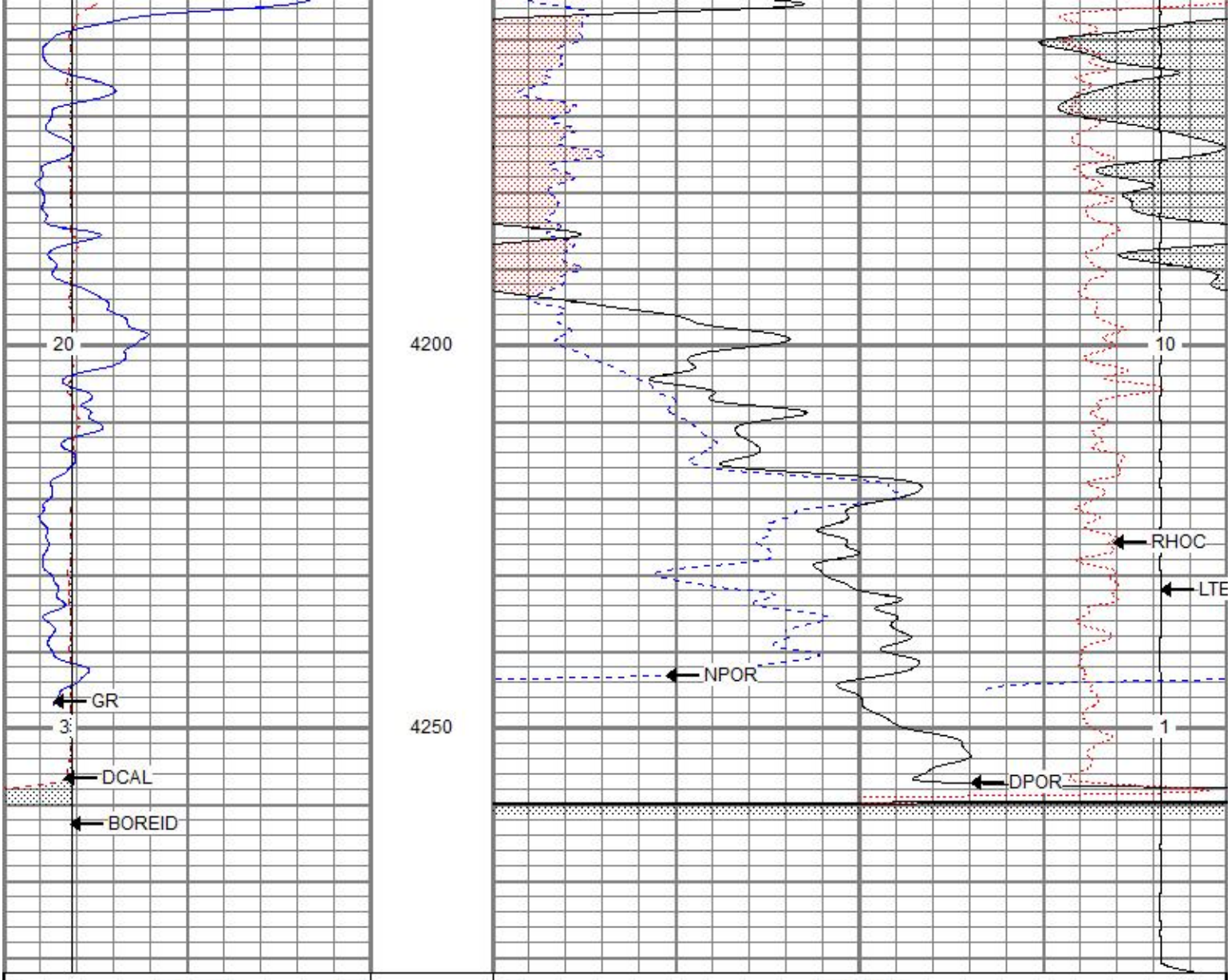
51
39
19



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

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

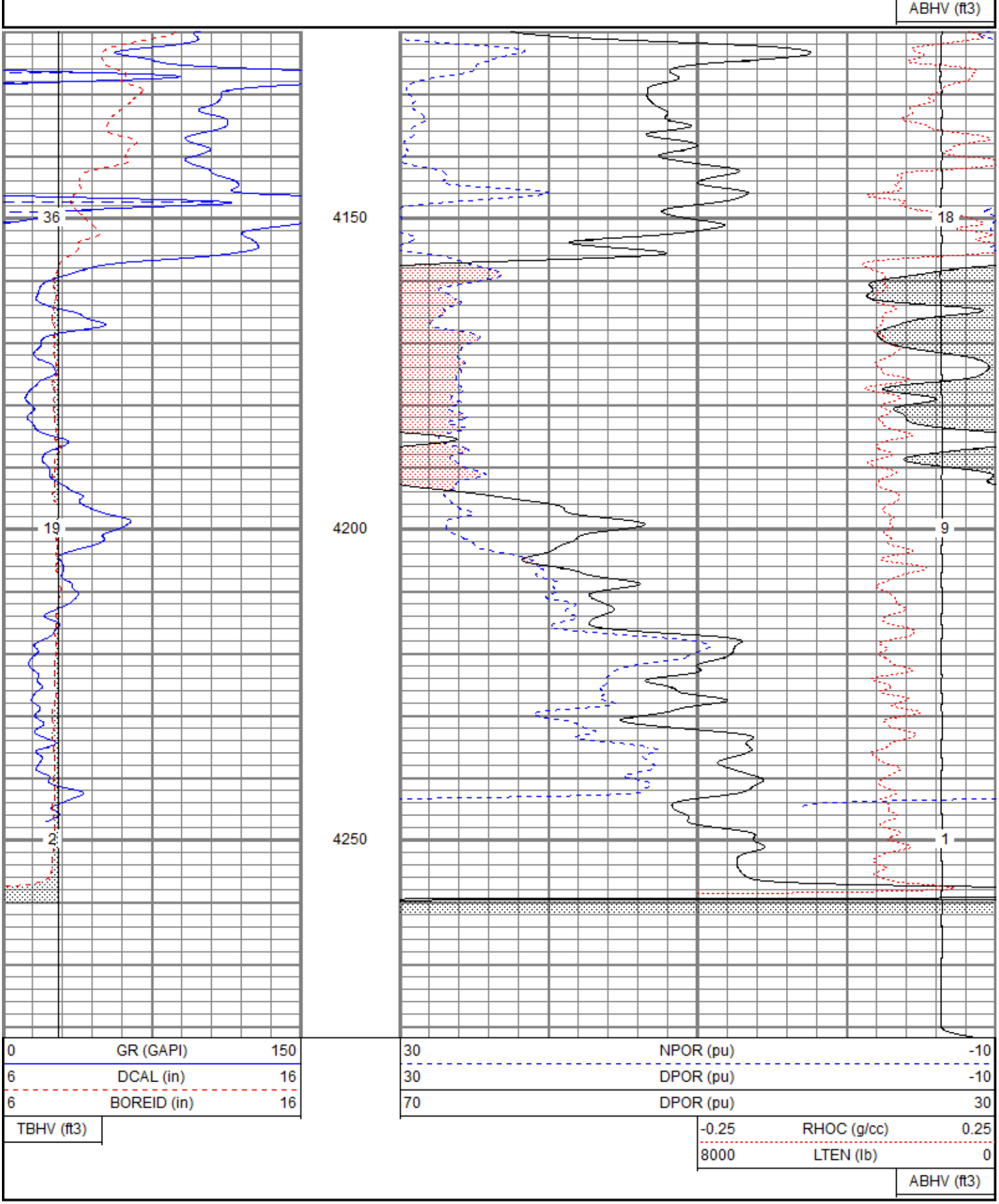
GEMINI WIRELINE

Repeat Pass

Database File	rwmcleod#10-1oh.db
Dataset Pathname	pass1.1
Presentation Format	kcdnl
Dataset Creation	Sat Oct 10 09:03:04 2015
Charted by	Depth in Feet scaled 1:240

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

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



Calibration Report

Database File	rwmcleod#10-1oh.db
Dataset Pathname	pass1.1
Dataset Creation	Sat Oct 10 09:03:04 2015

Dual Induction Calibration Report

Serial-Model:	5375-G
Surface Cal Performed:	Sat Oct 10 08:33:18 2015
Downhole Cal Performed:	Sat Oct 10 08:33:23 2015
After Survey Verification Performed:	Sat Oct 10 08:33:27 2015

Surface Calibration

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.007	0.642	V	0.000	350.000	mmho/m	551.294	-3.816
Medium	0.010	0.728	V	0.000	400.000	mmho/m	556.531	-5.391
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.007	0.642	V	0.000	350.000	mmho/m	550.717	-3.768
Medium	0.010	0.729	V	0.000	550.000	mmho/m	764.510	-7.354

Downhole Calibration

	Readings			References			Results	
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.145	350.239	mmho/m	-0.044	350.323	mmho/m	1.001	-0.189
Medium	0.435	400.472	mmho/m	-0.037	400.340	mmho/m	1.001	-0.473
Shallow	2.440	0.018	V	500.000	2.000	Ohm-m	185.553	0.000

After Survey Verification

	Readings			Targets			Results	
Internal:	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	0.145	350.239	mmho/m	1.001	-0.189
Medium	0.000	0.000	mmho/m	0.435	400.472	mmho/m	1.001	-0.473
Shallow	0.000	0.000	Ohm-m	500.000	2.000	Ohm-m	1.000	0.000

Compensated Density Calibration Report

Serial-Model:	2501DHT-DHT
Source / Verifier:	csv-j12 /
Master Calibration Performed:	Sat Oct 10 08:33:44 2015
Before Survey Verification Performed:	
After Survey Verification Performed:	

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.750	g/cc	711.36	284.22	cps
Aluminum	2.660	g/cc	133.07	180.42	cps

Spine Angle = 74.83

Density/Spine Ratio = 0.524

	Size		Reading
Small Ring	7.60	in	5749.57
Large Ring	14.00	in	9401.93

Before Survey Verification

	Target		Measured	
		g/cc		g/cc
		g/cc		g/cc
		g/cc		g/cc

After Survey Verification

	Target		Measured	

	g/cc		g/cc
	g/cc		g/cc
	g/cc		g/cc

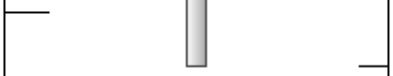
Gamma Ray Calibration Report

Serial Number:	2001	
Tool Model:	OH	
Performed:	Sat Oct 10 08:34:00 2015	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.2400	GAPI/cps

Neutron Calibration Report

Serial Number:	5108	
Tool Model:	PROBE	
Performed:	Sat Oct 10 08:34:02 2015	
Calibrator Value:	1	NAPI
Calibrator Reading:	1	cps
Sensitivity:	1	NAPI/cps

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			None	0.75	1.50	5.00
NEU	38.26		NEU-PROBE (5108) Probe	4.92	3.63	85.00
GR	32.32		GR-OH (2001) 2001	3.56	3.25	40.00
			DHT (2501DHT) Digital High Temp CDL Tool	9.69	4.00	201.00
LSD	23.78					
DCAL	23.49					
SSD	23.24					
HEADVOLT	21.47					
SP	10.60		DIL-G (5375) Gearhart	21.47	4.00	345.00
CILD	10.60					
CILM	6.89					

RLL3	1.70					

Dataset:	rwmcleod#10-1oh.db: field/well/run1/pass1.1
Total length:	40.39 ft
Total weight:	676.00 lb
O.D.:	4.00 in