COMPENSATED DENSITY NEUTRON LOG

Company LaVeta Oil & Gas
Well P. Spangenberg #15
Field Richardson
County Stafford State Kansas

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Well P. Spangenberg #15
Field Richardson
County Stafford
State Kansas

Location: API # : 15 185 23971

735' FSL & 1225' FWL

SEC 29 TWP 22S RGE 11W

Other Services
DIL

Permanent Datum	Ground Level	Elevation 1827'
Log Measured From	KB 10' AGL	
Drilling Measured From	KB	

Elevation
K.B. 1837'
D.F. 1836'
G.L. 1827'

Date	11-8-16		
Run Number	One		
Depth Driller	3570'		
Depth Logger	3575'		
Bottom Logged Interval	3552'		
Top Log Interval	2800'		
Casing Driller	8 5/8" @ 257'		
Casing Logger	257'		
Bit Size	7 7/8"		
Type Fluid in Hole	Chemical		
Density / Viscosity	9.2/64		
pH / Fluid Loss	9.2/8.8		
Source of Sample	Pit		
Rm @ Meas. Temp	3.1@72degf		
Rmf @ Meas. Temp	2.32@72degf		
Rmc @ Meas. Temp	3.72@72degf		
Source of Rmf / Rmc	Calculated		
Rm @ BHT	1.99@112degf		
Time Circulation Stopped	6:00 p.m.		
Time Logger on Bottom	8:30 p.m.		
Maximum Recorded Temperature	112degf		
Equipment Number	T127		
Location	Hays, KS		
Recorded By	Gus Pfanenstiel		
Witnessed By	Mr. Bruce Reed		

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Comments

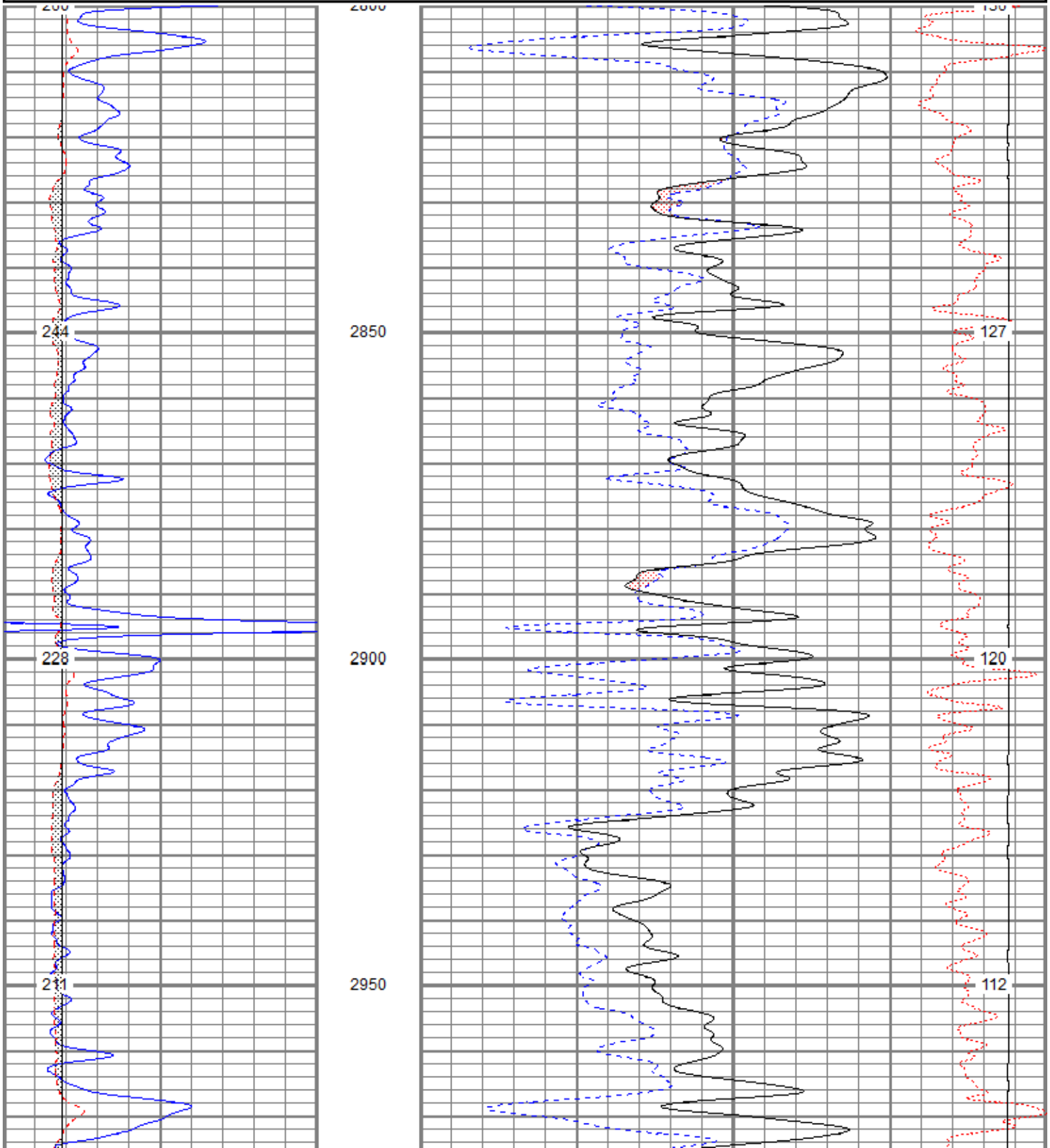
Thanks for using Gemini Wireline LLC
785-625-1182

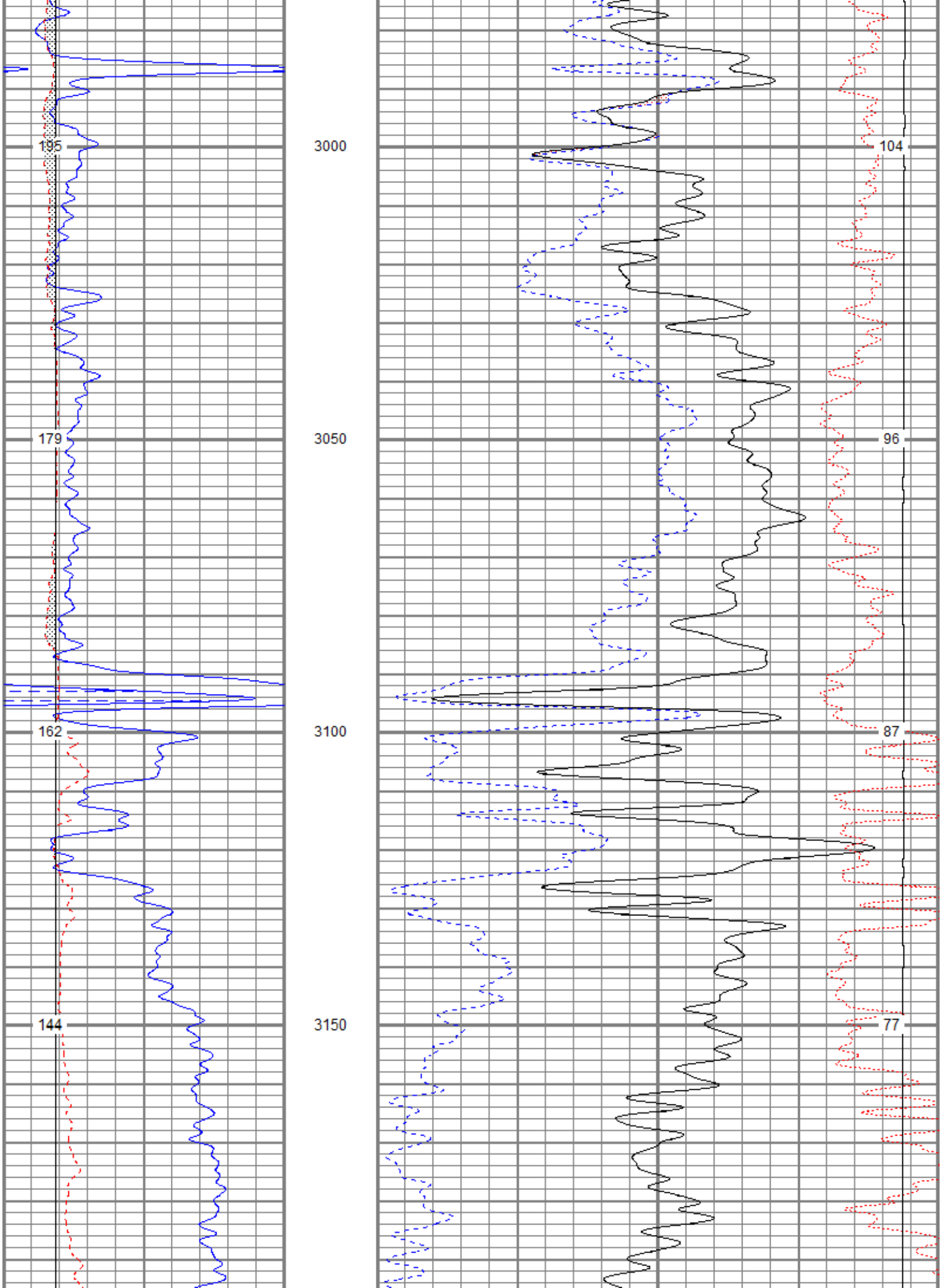
Main Pass

Database File	lop.db
Dataset Pathname	pass2.1
Presentation Format	kcdnl
Dataset Creation	Tue Nov 08 21:18:52 2016
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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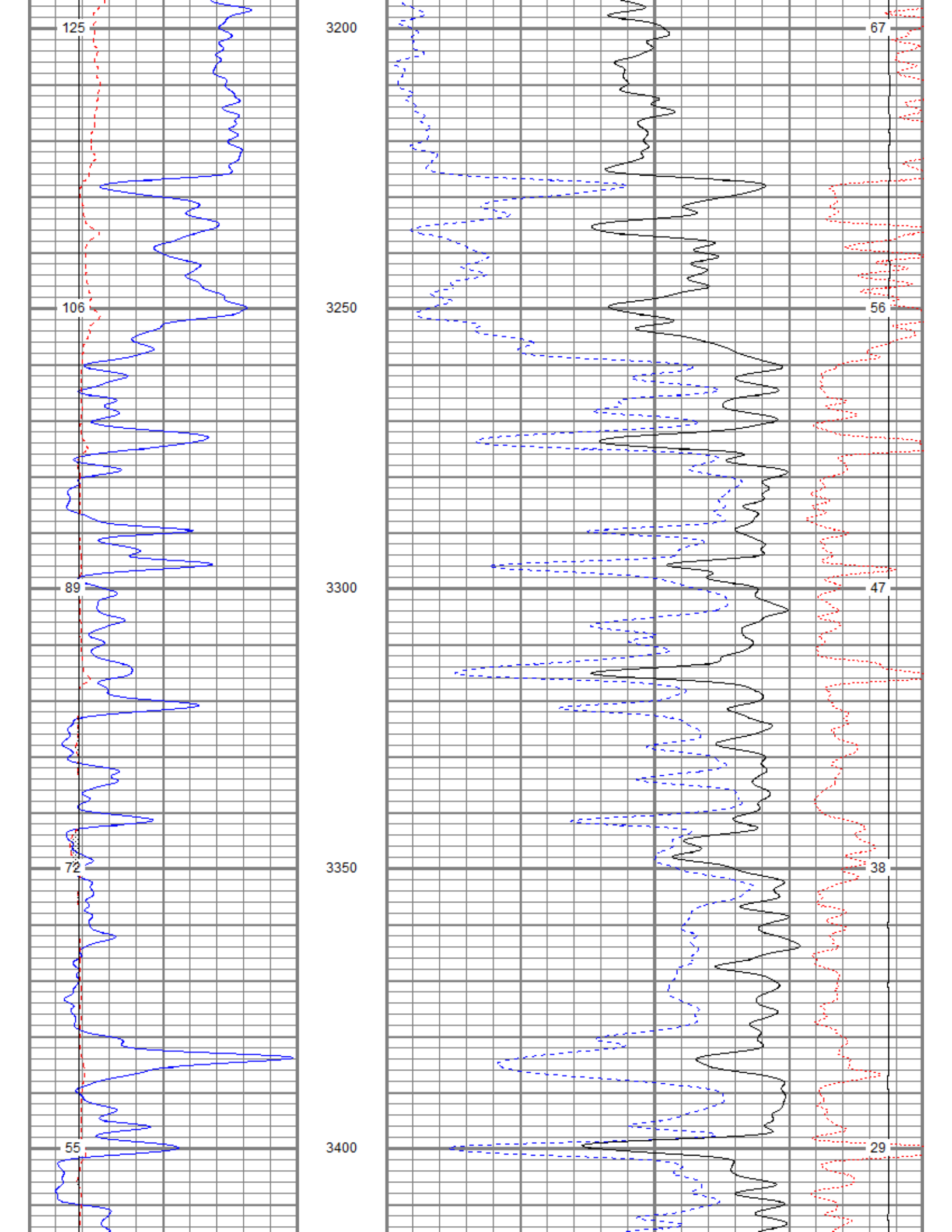
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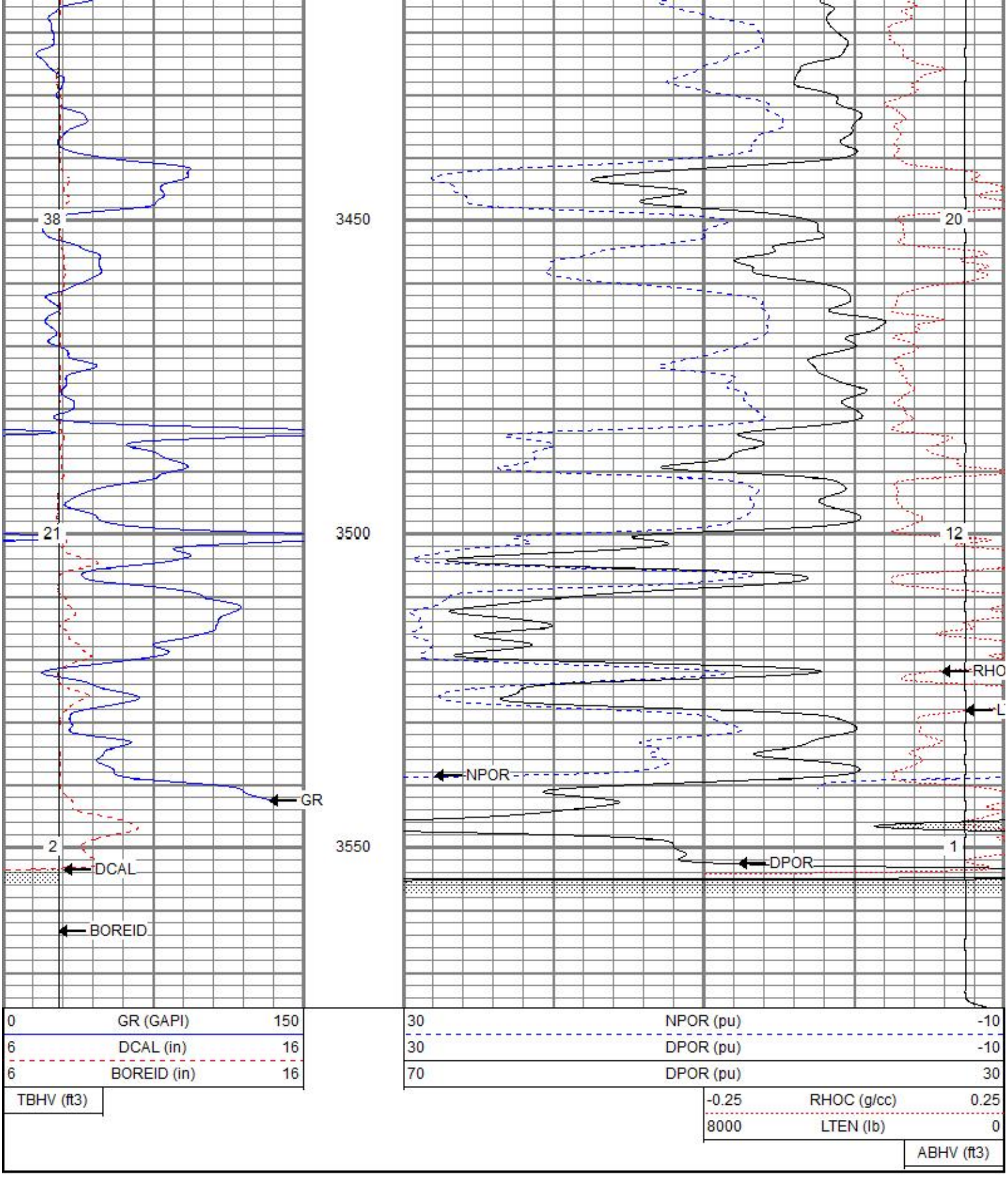
3200
3250
3300
3350
3400
67
56
47
38
29



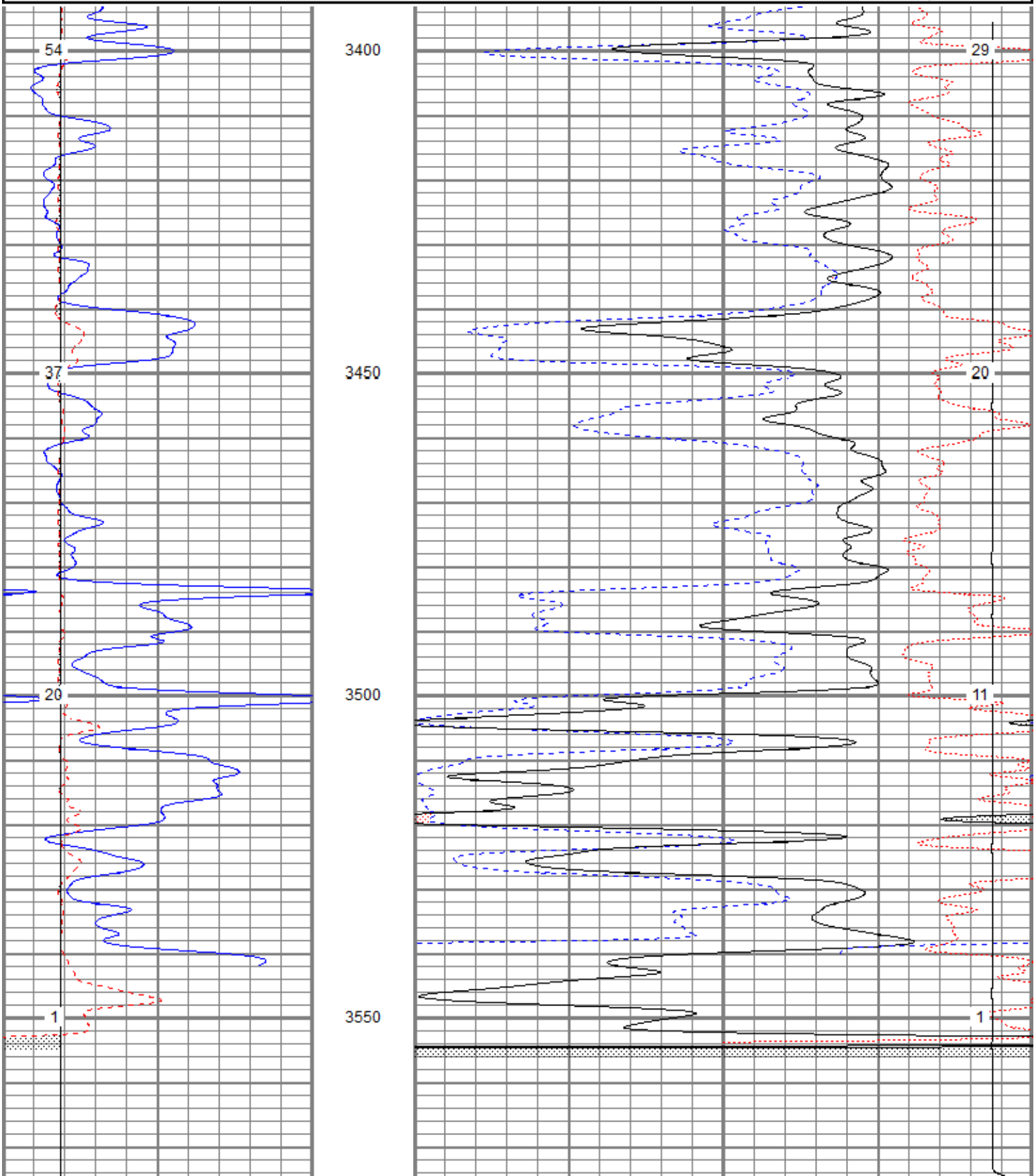
Repeat Pass

Database File	lop.db
Dataset Pathname	pass1.1

Presentation Format	kcdnl
Dataset Creation	Tue Nov 08 21:12:14 2016
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)		



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)	

Calibration Report

Database File lop.db
Dataset Pathname pass1.1
Dataset Creation Tue Nov 08 21:12:14 2016

Dual Induction Calibration Report

Serial-Model: 1989-ADM
Surface Cal Performed: Mon Jul 11 21:35:42 2016
Downhole Cal Performed: Mon Jul 11 21:36:11 2016
After Survey Verification Performed: Mon Jul 11 21:36:11 2016

Surface Calibration

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.002	0.656	V	0.000	350.000	mmho/m	535.560	-1.118
Medium	0.003	0.745	V	0.000	400.000	mmho/m	538.828	-1.427
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.002	0.656	V	0.000	350.000	mmho/m	535.220	-1.003
Medium	0.003	0.745	V	0.000	550.000	mmho/m	741.357	-2.036

Downhole Calibration

	Readings			References			Results	
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	-0.036	349.993	mmho/m	-0.114	350.108	mmho/m	1.001	-0.078
Medium	0.039	400.181	mmho/m	0.053	399.799	mmho/m	0.999	0.013
Shallow	2.503	0.015	V	500.000	2.000	Ohm-m	200.177	-15.046

After Survey Verification

	Readings			Targets			Results	
Internal:	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	-0.036	349.993	mmho/m	1.001	-0.078
Medium	0.000	0.000	mmho/m	0.039	400.181	mmho/m	0.999	0.013
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: Thu Jan 21 09:35:41 2016
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	8.05	in	5979.71
Large Ring	14.00	in	9974.72

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

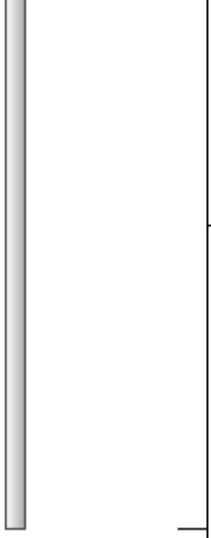
Gamma Ray Calibration Report

Serial Number:	2000	
Tool Model:	P2000	
Performed:	Sun Dec 13 16:43:47 2015	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.2200	GAPI/cps

Neutron Calibration Report

Serial Number:	5108	
Tool Model:	PROBE	
Performed:	Thu Jan 21 09:36:17 2016	
Calibrator Value:	1	NAPI
Calibrator Reading:	1	cps
Sensitivity:	1	NAPI/cps

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			CHD-None	0.75	1.50	5.00
NEU	36.60		NEU-PROBE (5108) Probe	4.92	3.63	85.00
GR	30.81		GR-P2000 (2000)	3.67	3.25	40.00
			CDL-DHT (2501DHT) Digital High Temp CDL Tool	9.69	4.00	201.00
LSD	22.02					
DCAL	21.73					
SSD	21.48					
HEADVOLT	19.71					



SP CILD	10.60 10.60	DIL-ADM (1989) Dual Induction	19.71	4.00	300.00
CILM	6.89				
RLL3	1.70				

Dataset:	lop.db: field/well/run1/pass1.1
Total length:	38.73 ft
Total weight:	631.00 lb
O.D.:	4.00 in