COMPENSATED DENSITY NEUTRON LOG

GEMINI WIRELINE

Company Palomino Petroleum
Well Brownie #3
Field Brownie
County Gove State Kansas
Location: API # : 15 063 22279
2143' FNL & 445' FEL
SEC 7 TWP 14S RGE 30W

Other Services
ML
DIL

Permanent Datum Ground Level Elevation 2771'
Log Measured From KB 8' AGL
Drilling Measured From KB

Elevation
K.B. 2779'
D.F. 2778'
G.L. 2771'

Date	12-3-15	
Run Number	Two	
Depth Driller	4597'	
Depth Logger	4595'	
Bottom Logged Interval	4572'	
Top Log Interval	3500'	
Casing Driller	8 5/8" @ 212'	
Casing Logger	212'	
Bit Size	7 7/8"	
Type Fluid in Hole	Chemical	
Density / Viscosity	9.1/56	
pH / Fluid Loss	10.5/7.8	
Source of Sample	Pit	
Rm @ Meas. Temp	.8@60degf	
Rmf @ Meas. Temp	.6@60degf	
Rmc @ Meas. Temp	.96@60degf	
Source of Rmf / Rmc	Calculated	
Rm @ BHT	.41@115degf	
Time Circulation Stopped	2:15 a.m.	
Time Logger on Bottom	4:15 a.m.	
Maximum Recorded Temperature	115degf	
Equipment Number	T127	
Location	Hays, KS	
Recorded By	Gus Pfanenstiel	
Witnessed By	Mr. Ryan Seib	

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Comments

South of Gove 10 miles,West 10 miles follow curve North 1 3/4 mile.
East into.

GEMINI WIRELINE

Main Pass

Database File	ppbrownie#3oh.db
Dataset Pathname	pass3.1
Presentation Format	kcdnl
Dataset Creation	Thu Dec 03 05:48:26 2015
Charted by	Depth in Feet scaled 1:240

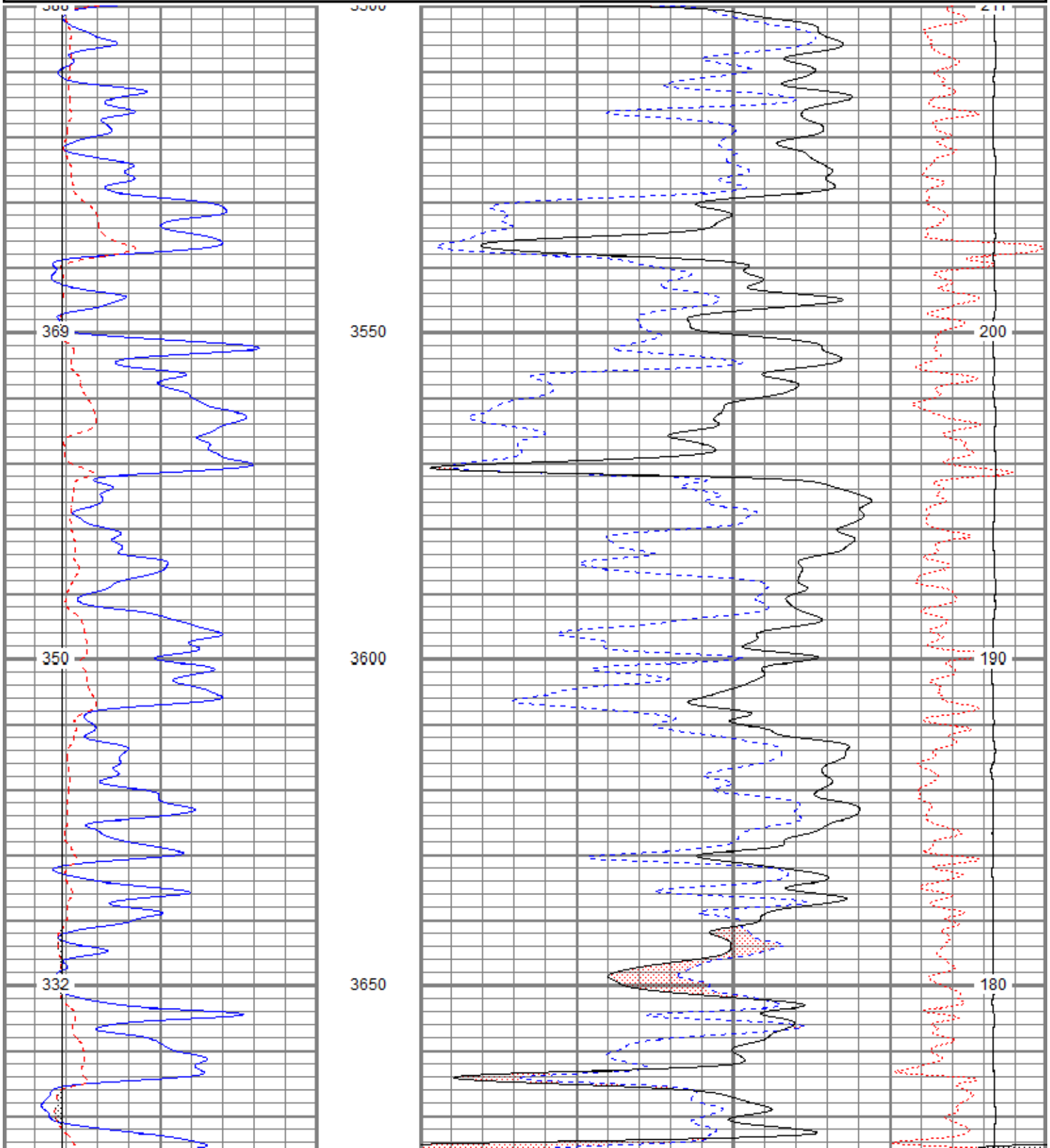
0	GR (GAPI)	150
6	DCAL (in)	16
6	BOREID (in)	16

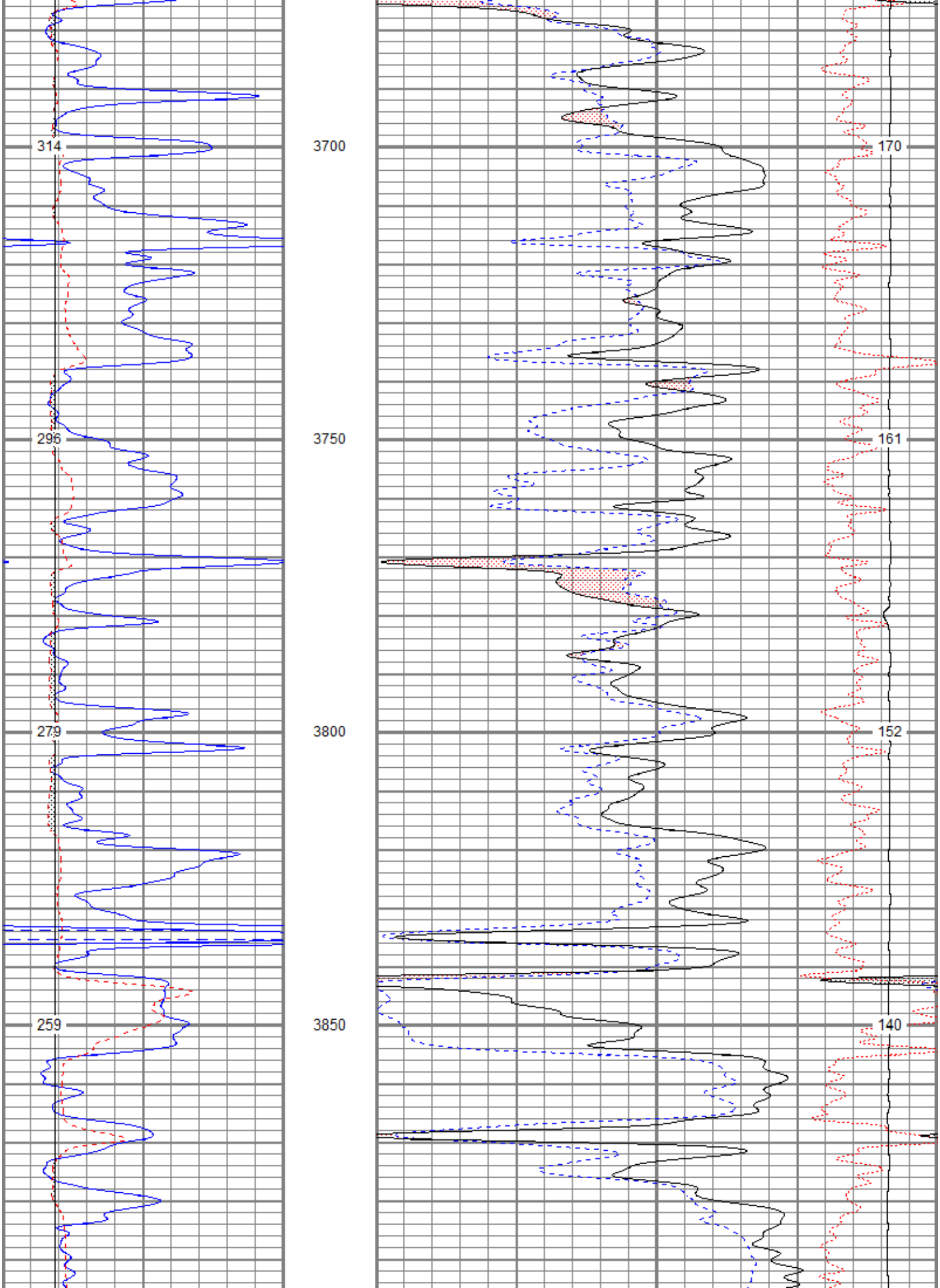
TBHV (ft3)

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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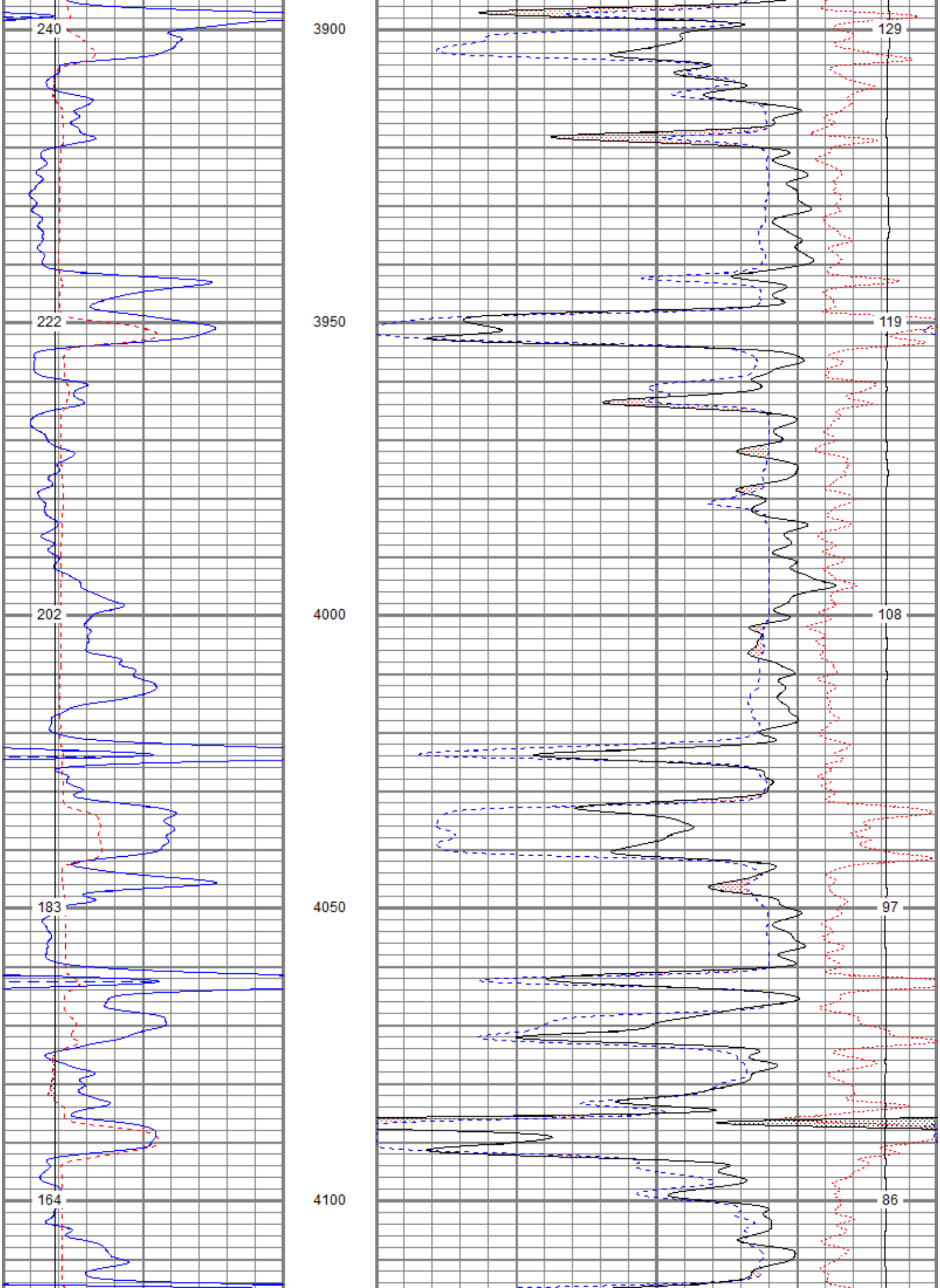
296
279
259
3700
3750
3800
3850
170
161
152
140


240
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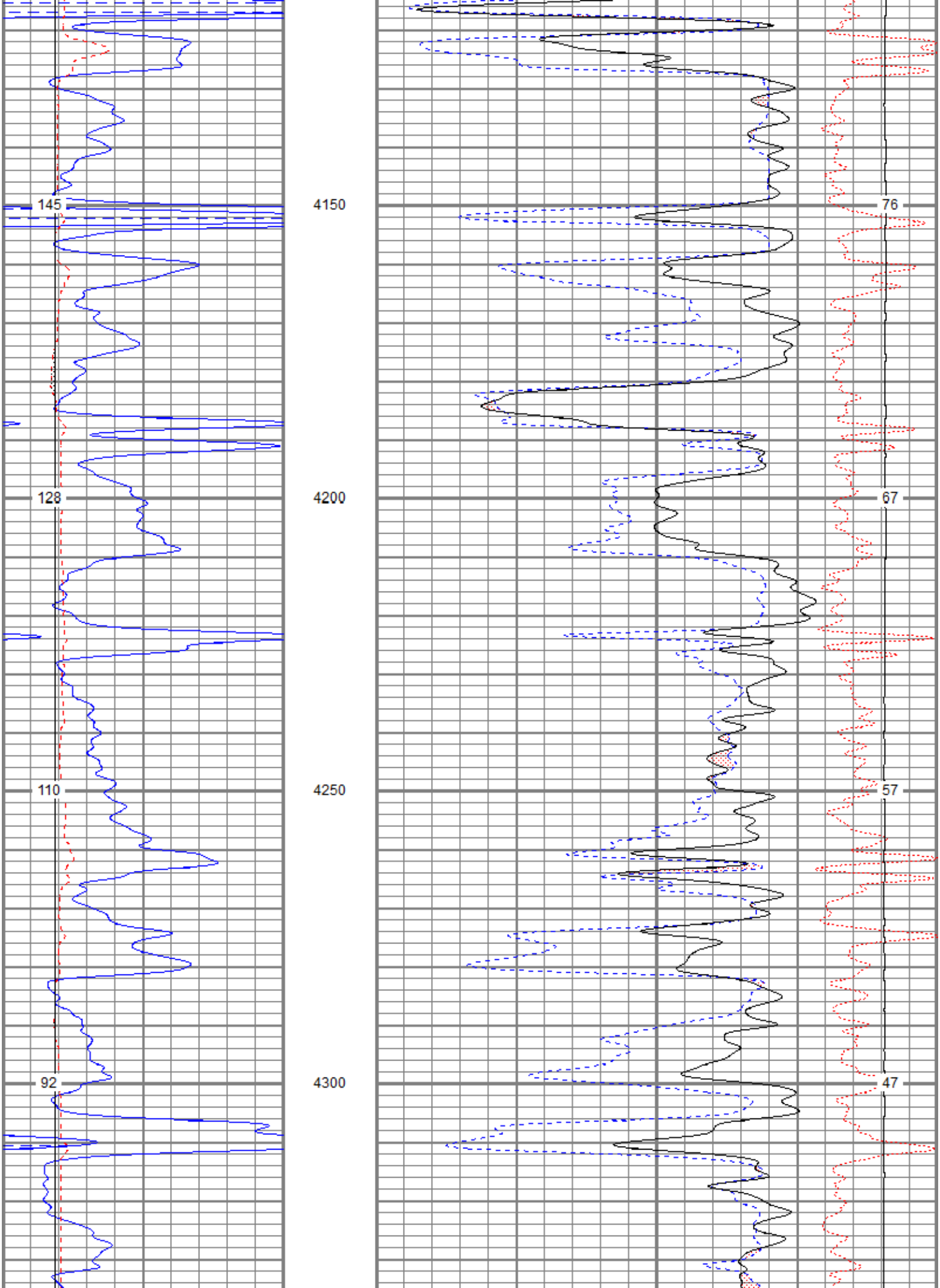
129
222
3950
119
202
4000
108
183
4050
97
164
4100
86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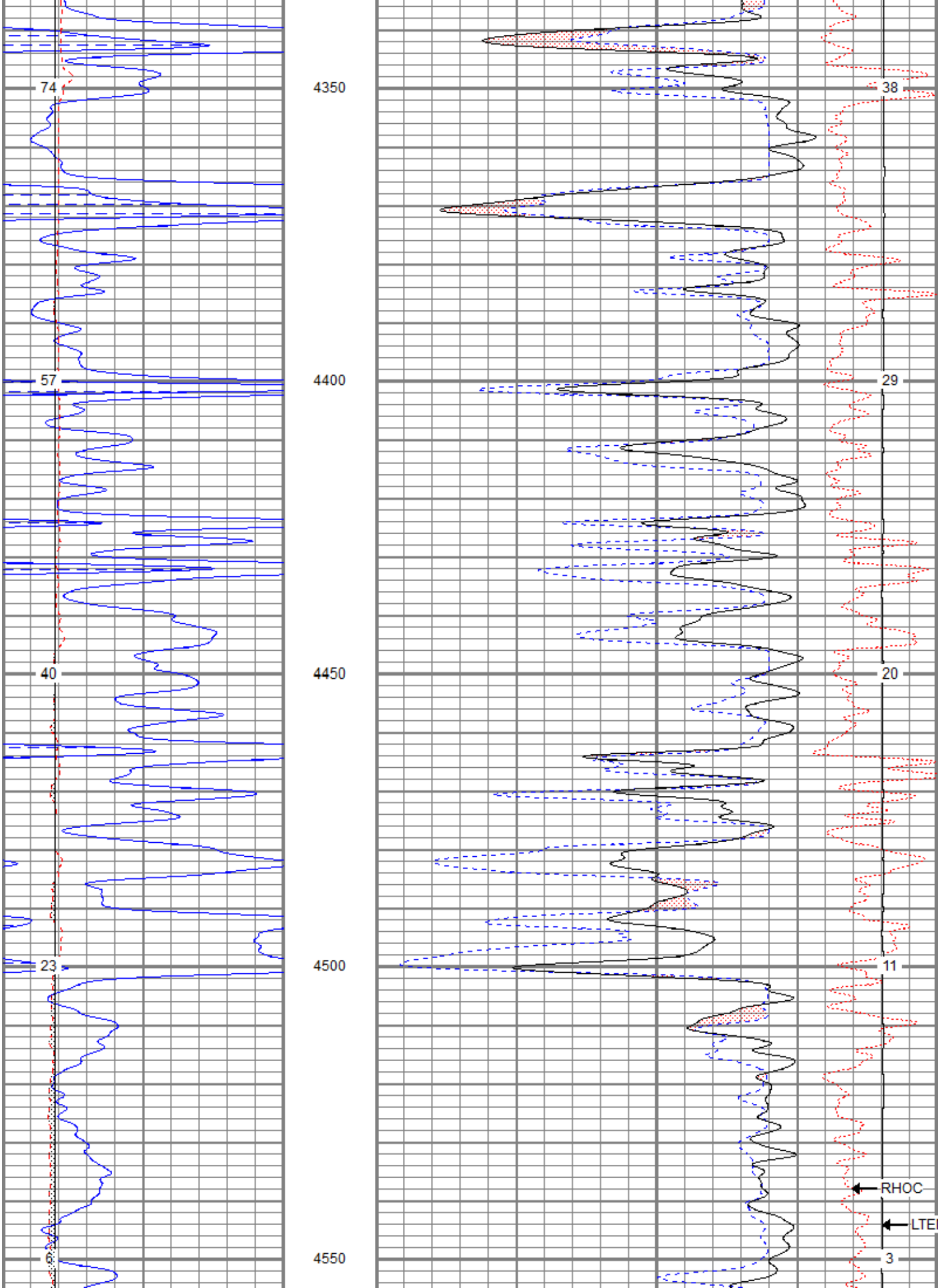
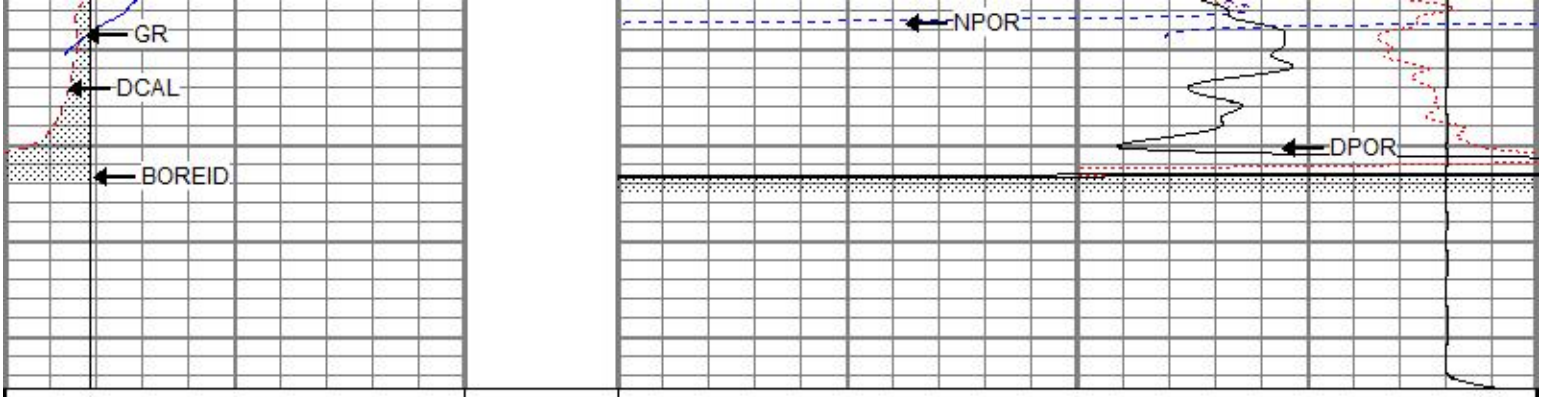
128
110
92
4150
4200
4250
4300
76
67
57
47


74
57
40
23
6
4350
4400
4450
4500
4550
38
29
20
11
3
RHOC
LTE



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)	

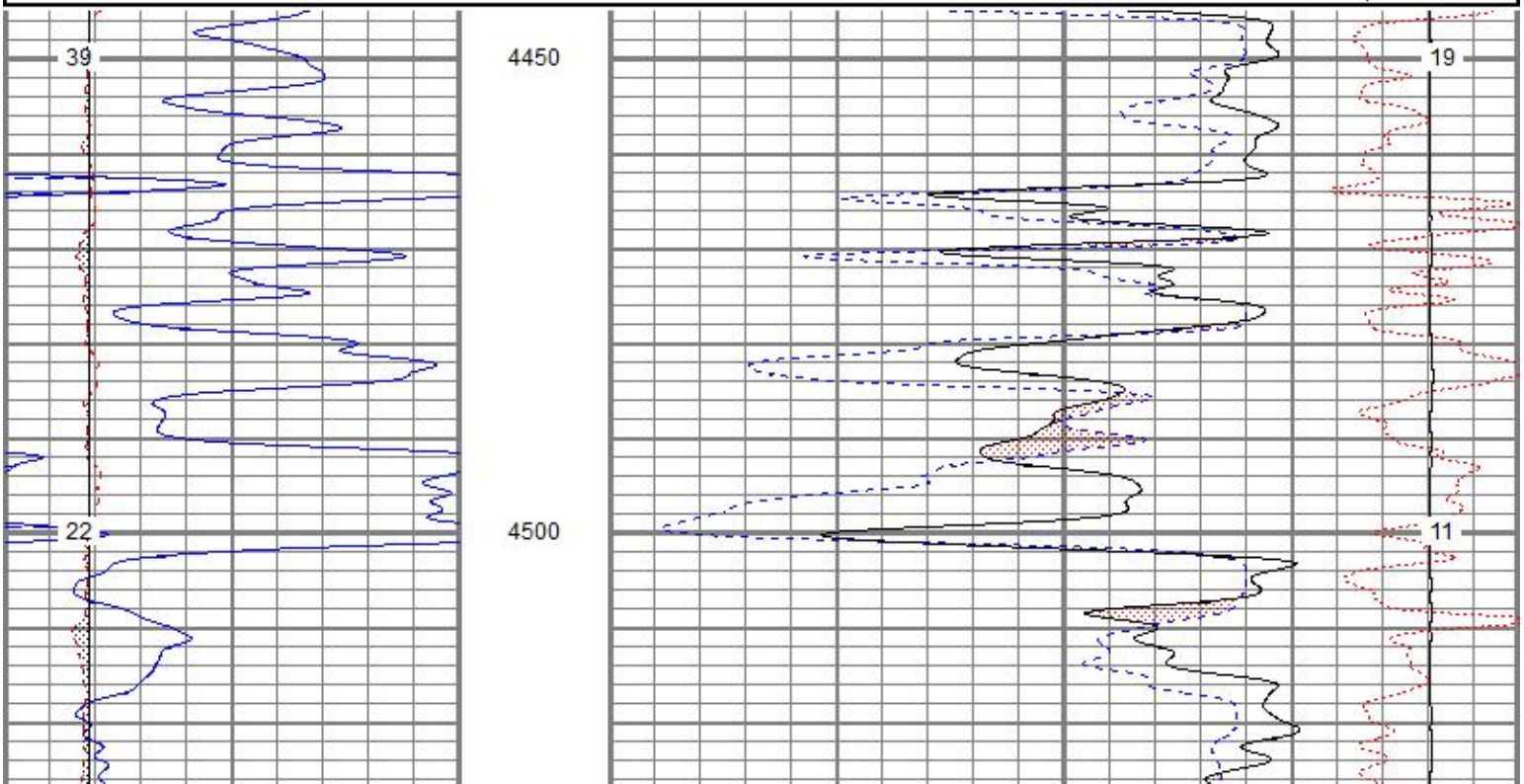
GEMINI WIRELINE

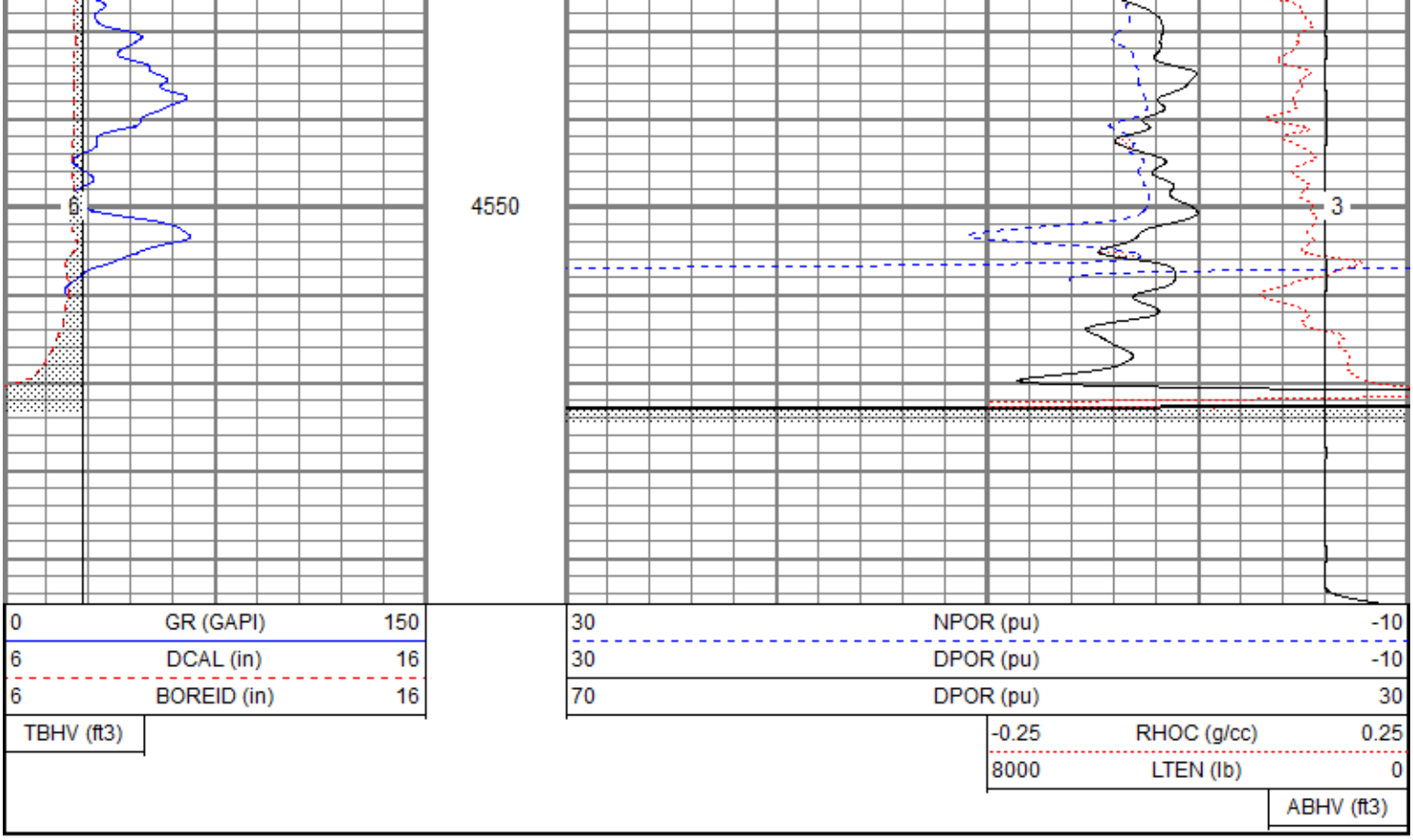
Repeat Pass

Database File	ppbrownie#3oh.db
Dataset Pathname	pass2
Presentation Format	kcdnl
Dataset Creation	Thu Dec 03 05:13:48 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)	





Calibration Report

Database File	ppbrownie#3oh.db
Dataset Pathname	pass2
Dataset Creation	Thu Dec 03 05:13:48 2015

Dual Induction Calibration Report

Serial-Model:	080522-Probe
Surface Cal Performed:	Thu Nov 12 13:07:19 2015
Downhole Cal Performed:	Thu Nov 12 13:09:55 2015
After Survey Verification Performed:	Thu Nov 12 13:09:55 2015

Surface Calibration

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.003	0.649	V	0.000	400.000	mmho/m	619.409	-1.732
Medium	0.006	0.744	V	0.000	464.000	mmho/m	628.632	-3.814
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.002	0.649	V	0.000	400.000	mmho/m	617.810	-0.943
Medium	0.006	0.744	V	0.000	464.000	mmho/m	628.534	-3.898

Downhole Calibration

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	-1.410	400.435	mmho/m	-0.786	400.250	mmho/m	0.998	0.621
Medium	-0.107	464.272	mmho/m	0.084	464.157	mmho/m	0.999	0.192
LL3		7.262	V		750.000	Ohm-m		
		0.008	V		12.000	Ohm-m		
		-7.297	V		3745.000	mmho-m		

After Survey Verification

	Readings	Targets	Results

	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	-1.410	400.435	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	-0.107	464.272	mmho/m	1.000	0.000
LL3		0.000	Ohm-m		750.000	Ohm-m		
		0.000	Ohm-m		12.000	Ohm-m		
		0.000	mmho-m		3745.000	mmho-m		

Compensated Density Calibration Report

Serial-Model: 2501DHT-DHT
Source / Verifier: csv-j12 /
Master Calibration Performed: Thu Nov 12 11:56:11 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	7.80	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: Thu Nov 12 11:56:02 2015

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.2400 GAPI/cps

Neutron Calibration Report

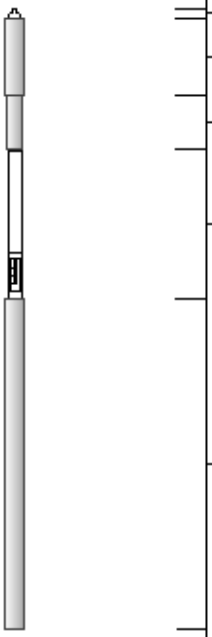
Serial Number: 5108
Tool Model: PROBE
Performed: Thu Nov 12 11:56:00 2015

Calibrator Value: 1 NAPI

Calibrator Reading: 1 cps

Sensitivity: 1 NAPI/cps

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			CHD-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
			CDL-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-Probe (080522) Probe Dual Induction	21.47	4.00	345.00
CILD	10.60					
CILM	6.89					
RLL3	1.70					

Dataset: ppbrownie#3oh.db: field/well/run1/pass2
Total length: 40.39 ft
Total weight: 676.00 lb
O.D.: 4.00 in