COMPENSATED DENSITY NEUTRON LOG

Company H & D Exploration LLC.
Well Dozier #1
Field Unknown
County Stafford State Kansas

Location: API # : 15 185 23961

1630' FNL & 1087' FWL

SEC 21 TWP 25S RGE 11W

Other Services
DIL
ML
BCS

Elevation
K.B. 1824'
D.F. 1823'
G.L. 1816'

Permanent Datum	Ground Level	Elevation 1816'
Log Measured From	KB 8' AGL	
Drilling Measured From	KB	

Date	6-14-16		
Run Number	One		
Depth Driller	4200'		
Depth Logger	4202'		
Bottom Logged Interval	4179'		
Top Log Interval	3100'		
Casing Driller	8 5/8" @ 727'		
Casing Logger	727'		
Bit Size	7 7/8"		
Type Fluid in Hole	Chemical		
Density / Viscosity	9.3/51		
pH / Fluid Loss	9.8/9.6		
Source of Sample	Pit		
Rm @ Meas. Temp	2.1@72degf		
Rmf @ Meas. Temp	1.58@72degf		
Rmc @ Meas. Temp	2.52@72degf		
Source of Rmf / Rmc	Calculated		
Rm @ BHT	1.35@112degf		
Time Circulation Stopped	2:30 a.m.		
Time Logger on Bottom	4:30 a.m.		
Maximum Recorded Temperature	112degf		
Equipment Number	T127		
Location	Hays, KS		
Recorded By	Gus Pfanenstiel		
Witnessed By	Mr. Jim Musgrove		

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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

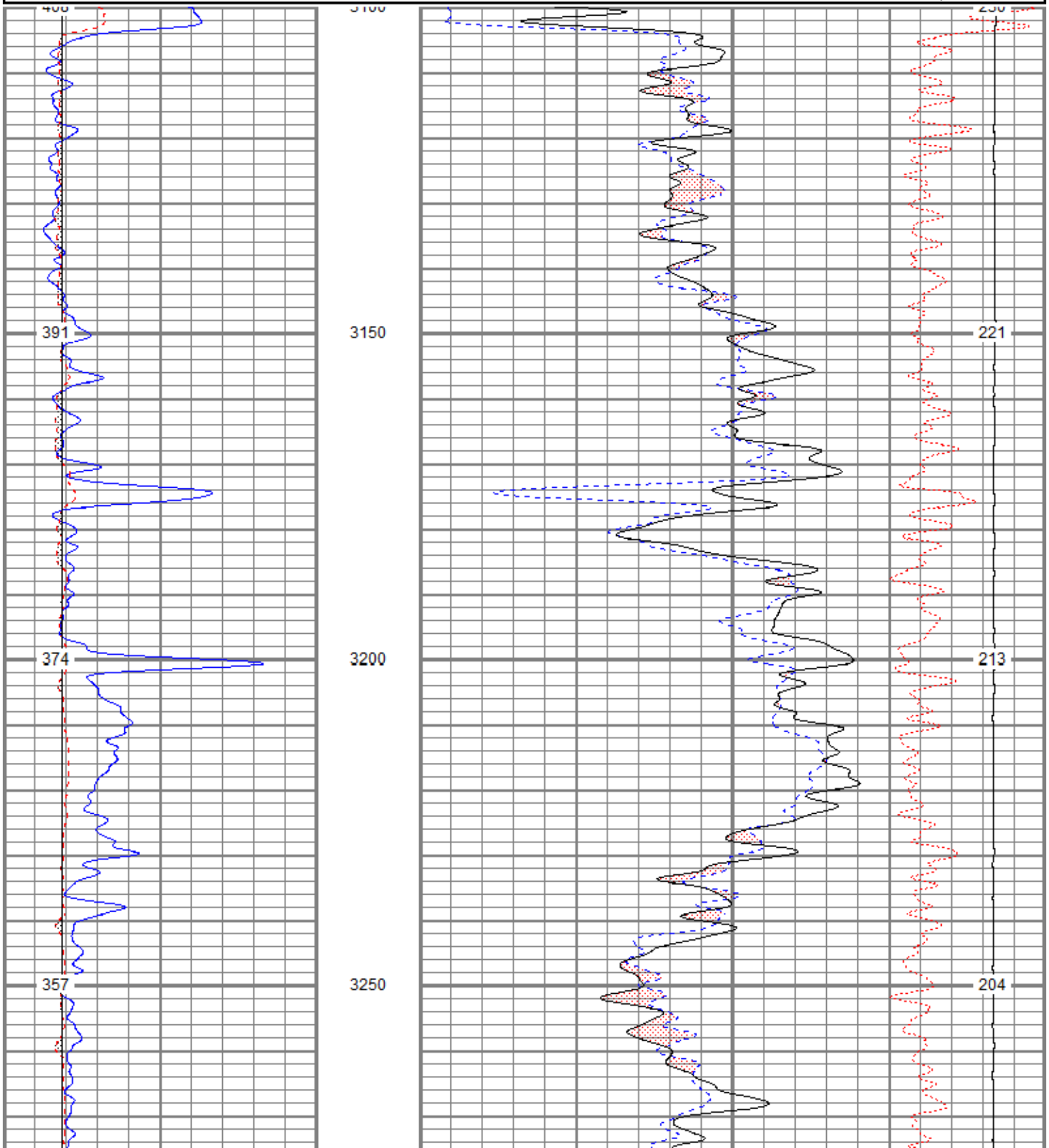
Thanks for using Gemini Wireline LLC
785-625-1182

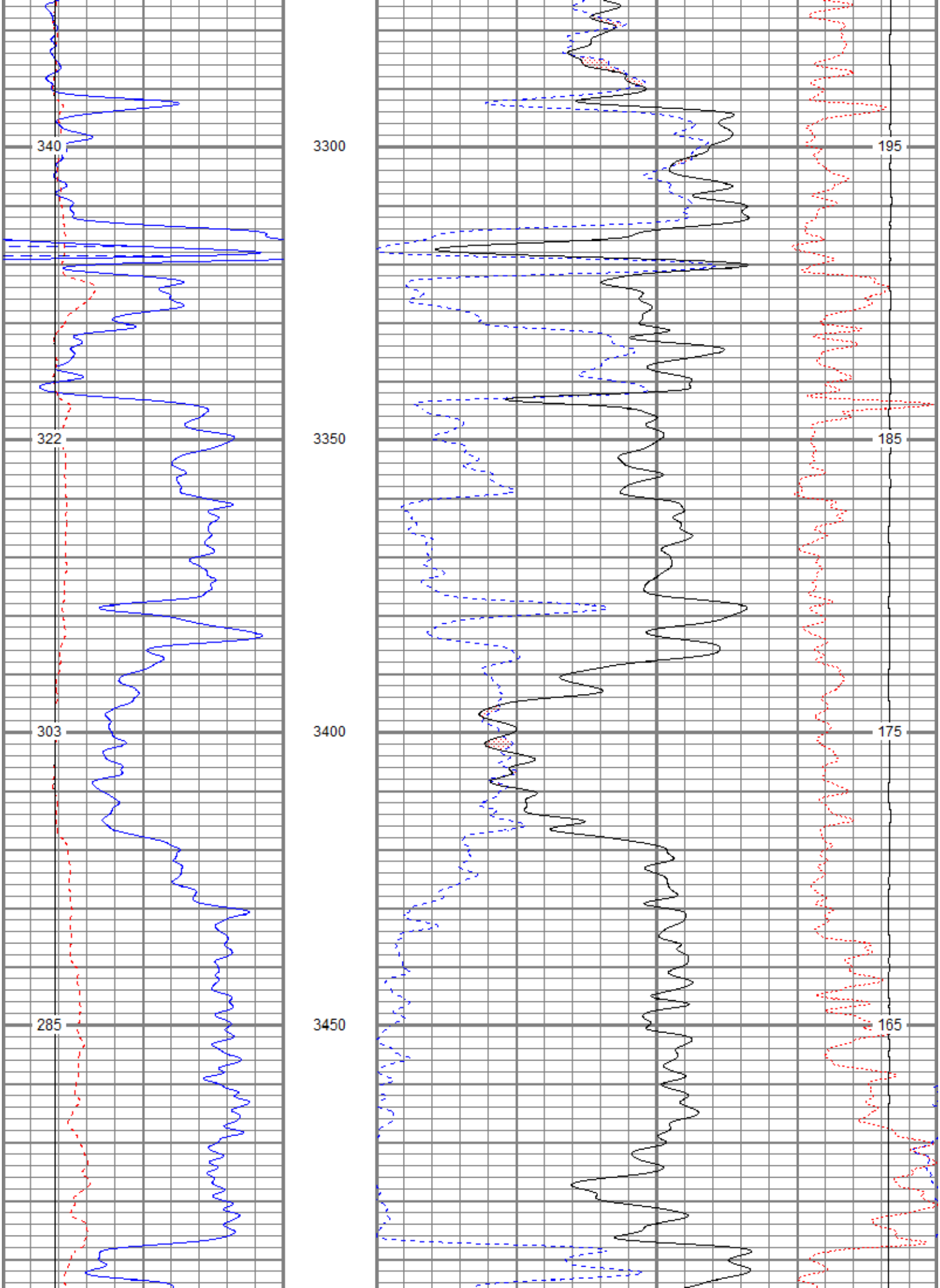
Main Pass

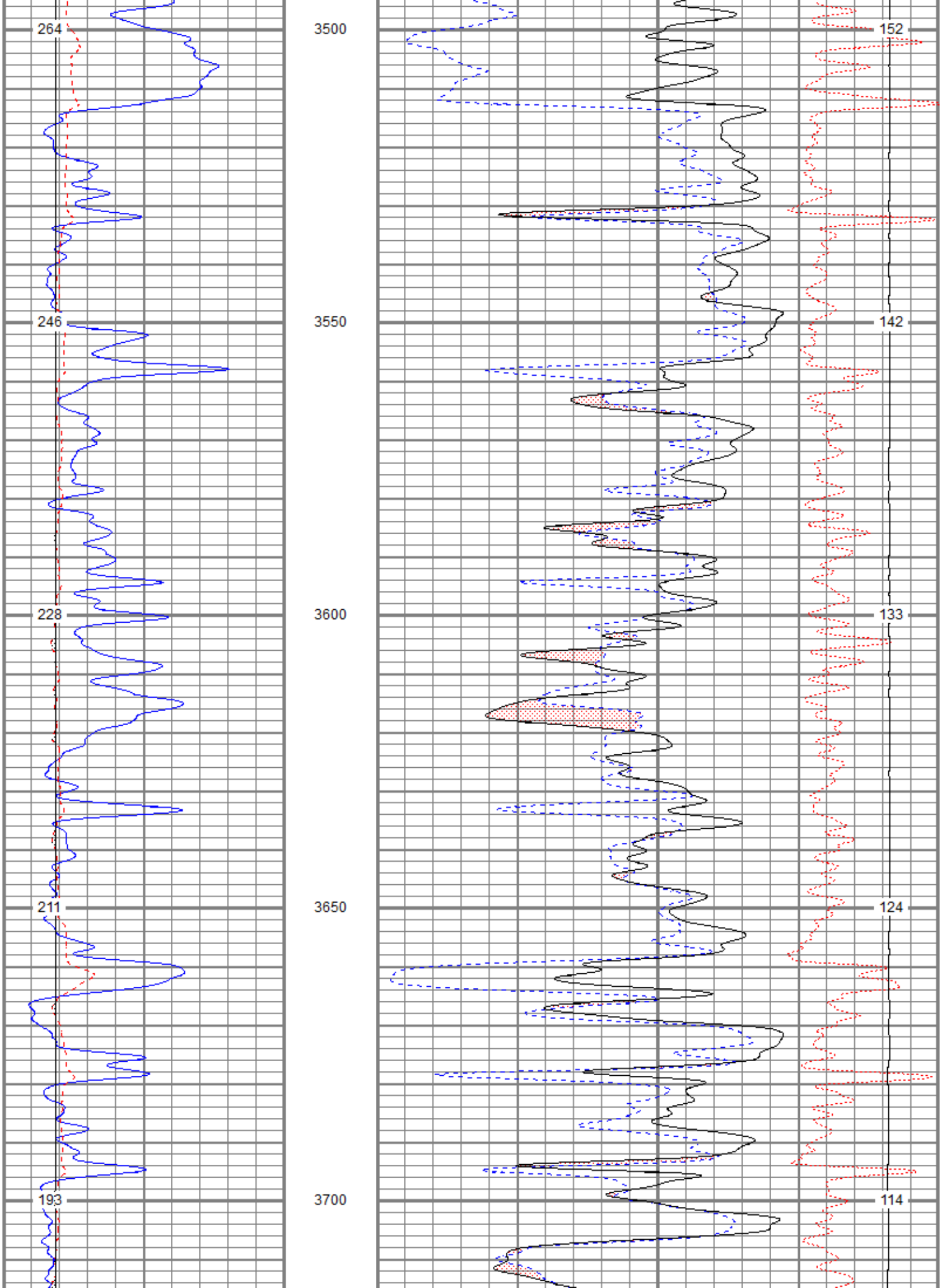
Database File	hddozier#1oh.db
Dataset Pathname	pass3main
Presentation Format	kcdnl
Dataset Creation	Tue Jun 14 05:30:16 2016
Charted by	Depth in Feet scaled 1:240

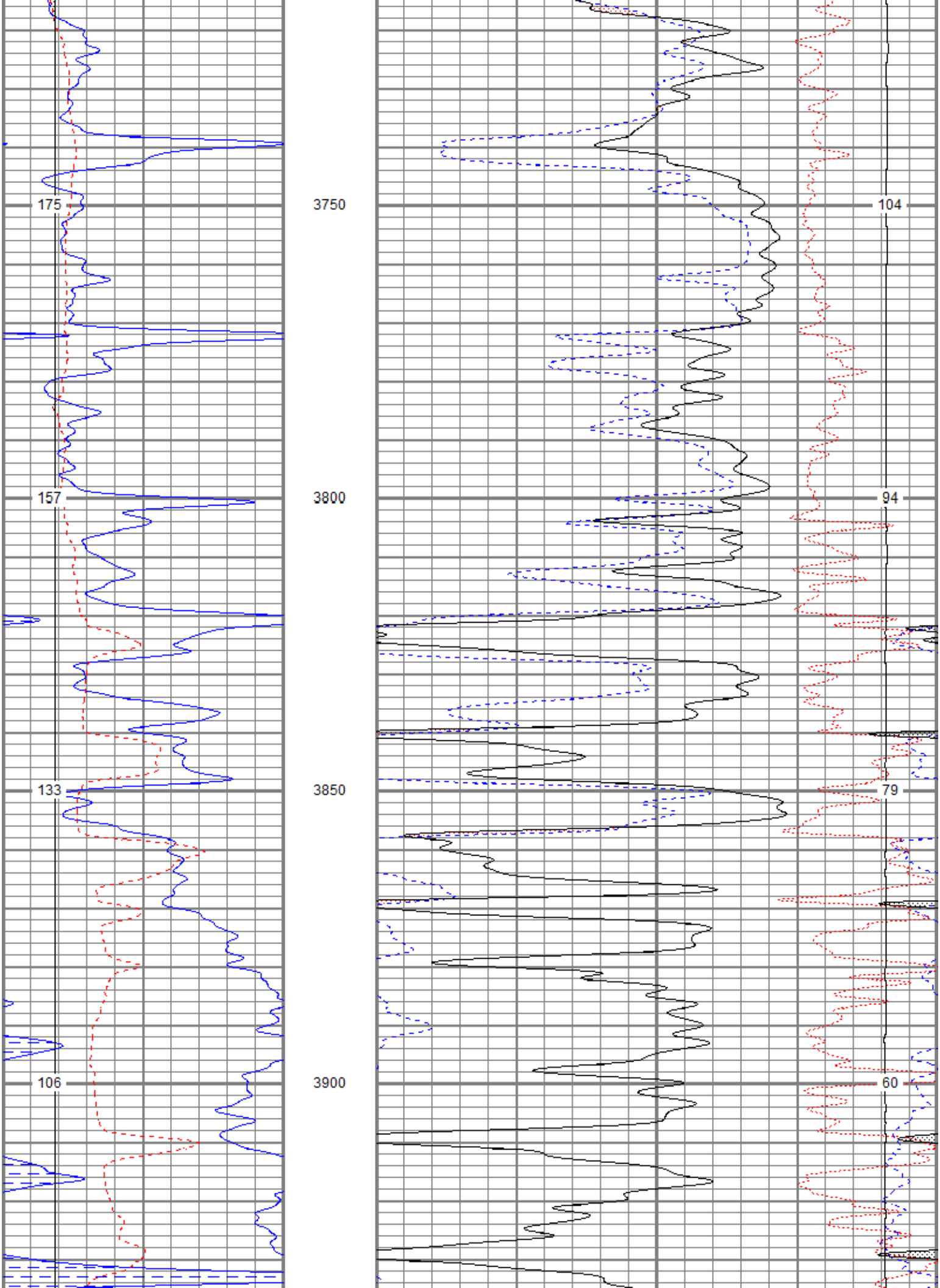
0	GR (GAPI)	150
6	DCAL (in)	16
6	BOREID (in)	16
TBHV (ft3)		

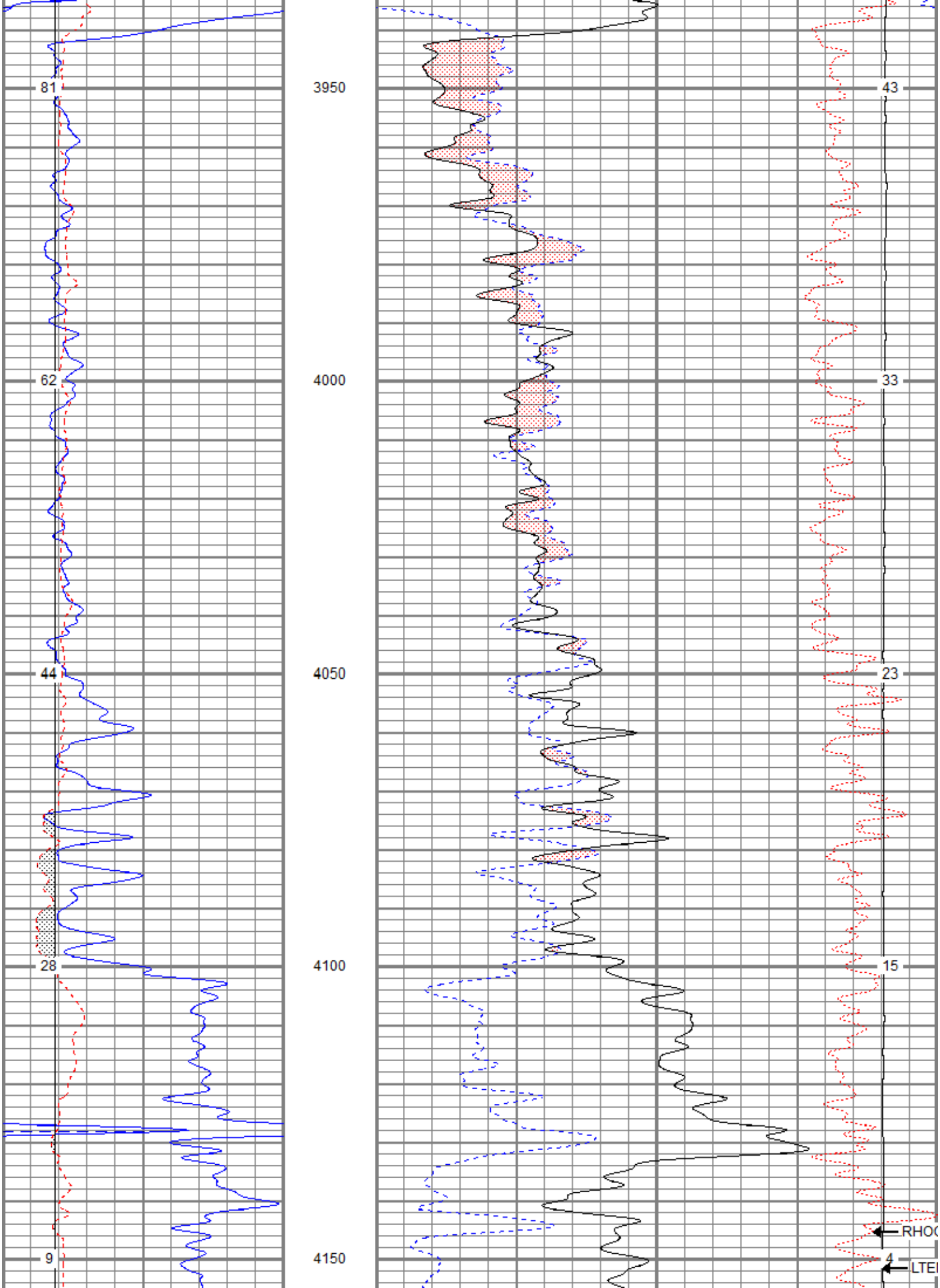
30	NPOR (pu)	-10
30	DPOR (pu)	-10
70	DPOR (pu)	30
-0.25	RHOC (g/cc)	0.25
8000	LTEN (lb)	0
ABHV (ft3)		

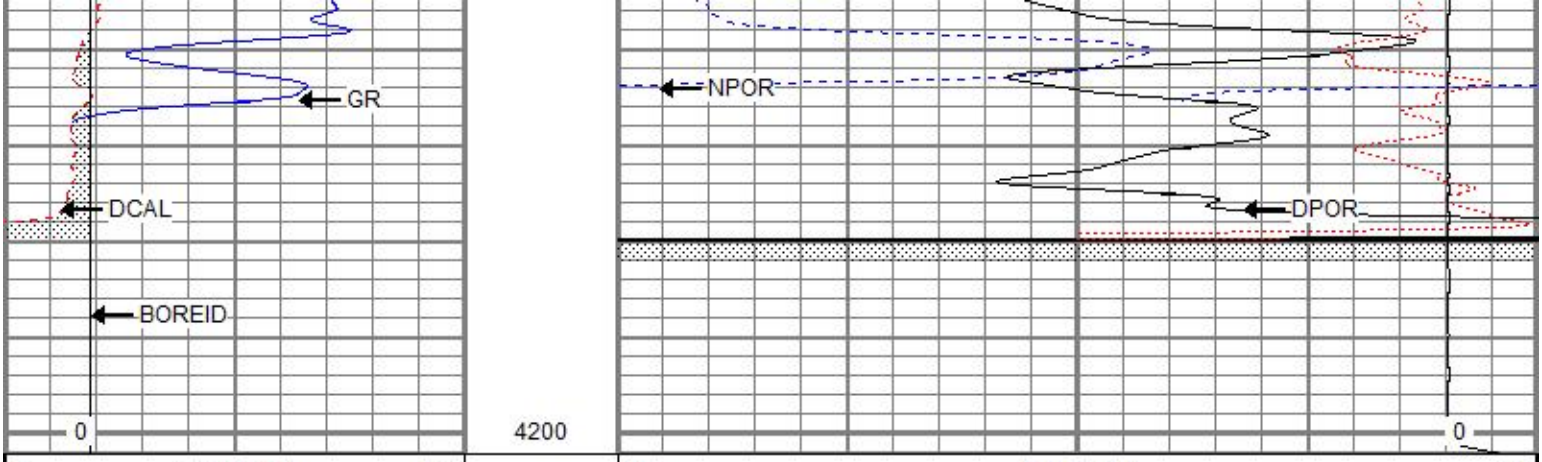



340
322
303
285
3300
3350
3400
3450
195
185
175
165


264
246
228
211
193
3500
3550
3600
3650
3700
152
142
133
124
114


175
3750
104
157
3800
94
133
3850
79
106
3900
60


81
62
44
28
9
3950
4000
4050
4100
4150
43
33
23
15
4
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)	

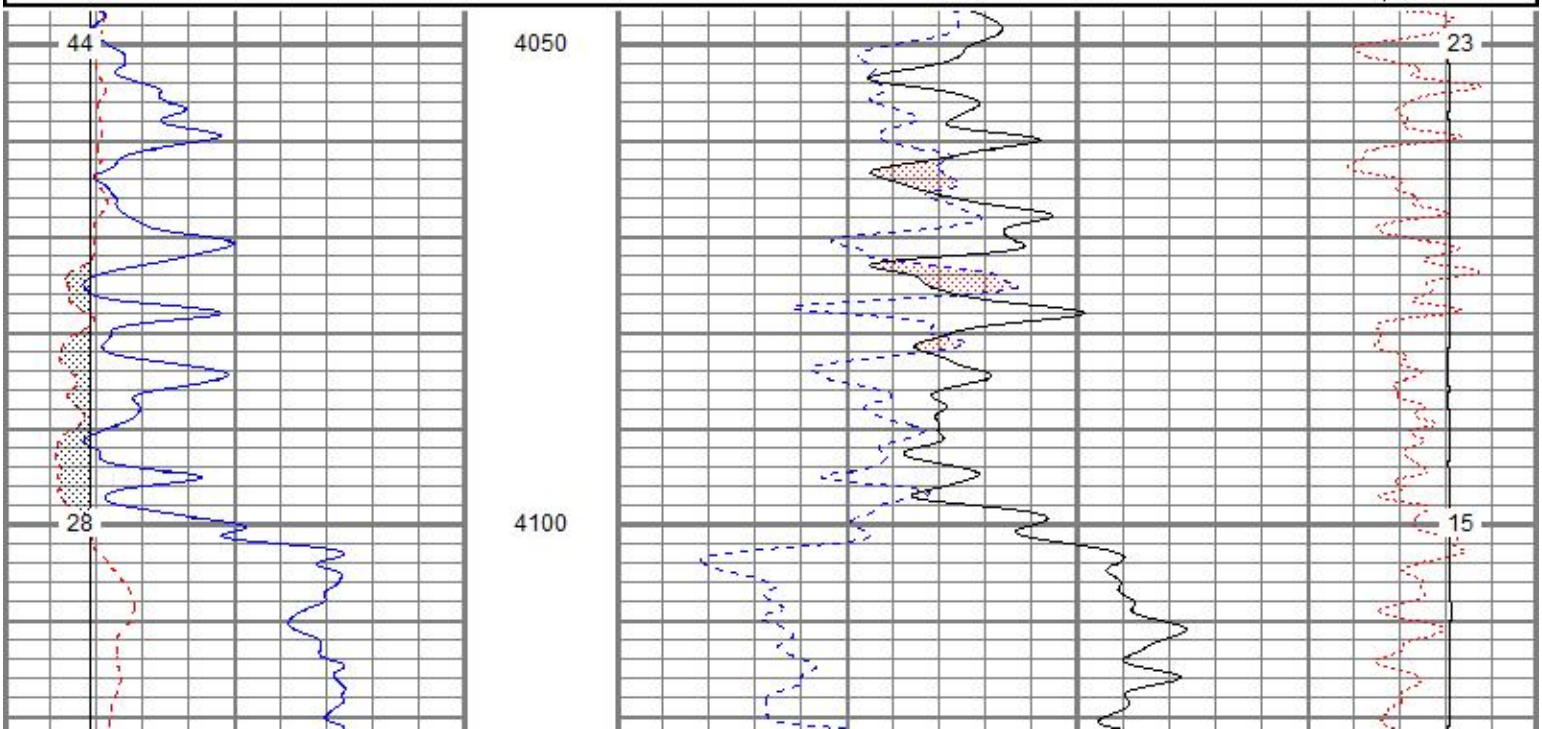
GEMINI WIRELINE

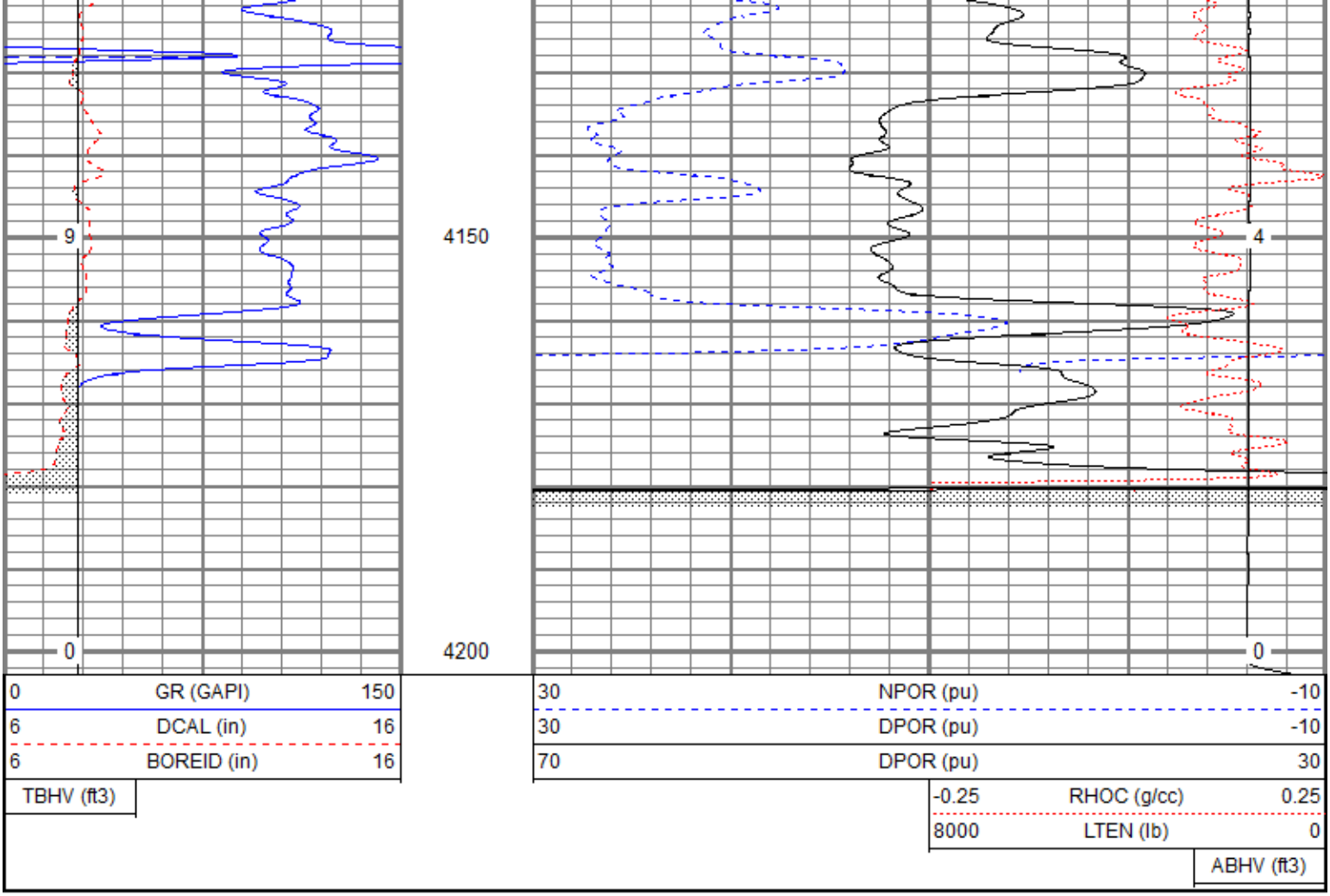
Repeat Pass

Database File	hddozier#1oh.db
Dataset Pathname	pass2
Presentation Format	kcdnl
Dataset Creation	Tue Jun 14 04:38:04 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)	





Calibration Report

Database File hddozier#1oh.db
Dataset Pathname pass2
Dataset Creation Tue Jun 14 04:38:04 2016

Dual Induction Calibration Report

Serial-Model:	5375-G
Surface Cal Performed:	Tue Jun 14 04:36:54 2016
Downhole Cal Performed:	Tue Jun 14 04:37:33 2016
After Survey Verification Performed:	Tue Jun 14 04:37:33 2016

Surface Calibration

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	-0.019	0.668	V	0.000	350.000	mmho/m	509.788	9.664
Medium	0.003	0.732	V	0.000	400.000	mmho/m	548.634	-1.470
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	-0.016	0.668	V	0.000	350.000	mmho/m	511.493	8.207
Medium	0.002	0.737	V	0.000	550.000	mmho/m	747.662	-1.132

Downhole Calibration

	Readings			References			Results	
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	2.082	347.794	mmho/m	1.484	350.317	mmho/m	1.009	-0.616
Medium	-0.599	402.029	mmho/m	-0.640	402.950	mmho/m	1.002	-0.039
Shallow	2.424	0.019	V	500.000	2.000	Ohm-m	207.121	-2.005

After Survey Verification

Internal:	Readings Zero	Readings Cal		Targets Zero	Targets Cal		Results m'	Results b'
Deep	0.000	0.000	mmho/m	2.082	347.794	mmho/m	1.009	-0.616
Medium	0.000	0.000	mmho/m	-0.599	402.029	mmho/m	1.002	-0.039
Shallow	0.000	0.000	Ohm-m	500.000	2.000	Ohm-m	1.000	0.000

Compensated Density Calibration Report

Serial-Model: 2388DHT-DHT
Source / Verifier: csv j12 / csv j12
Master Calibration Performed: Fri Aug 01 09:45:19 2014
Before Survey Verification Performed:
After Survey Verification Performed:

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.750	g/cc	668.56	327.82	cps
Aluminum	2.650	g/cc	125.78	203.67	cps

Spine Angle = 74.10 Density/Spine Ratio = 0.518

	Size		Reading
Small Ring	7.60	in	5695.86
Large Ring	14.00	in	9900.52

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 Jan 21 09:36:03 2016

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.2400 GAPI/cps

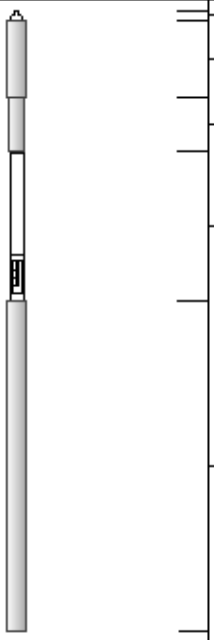
Neutron Calibration Report

Serial Number: 5108
Tool Model: PROBE
Performed: Thu 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	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 (2388DHT) 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:	hddozier#1oh.db: field/well/run1/pass2
Total length:	40.39 ft
Total weight:	676.00 lb
O.D.:	4.00 in