COMPENSATED DENSITY NEUTRON LOG

Company John O. Farmer, Inc.
Well Nielsen #1
Field Wildcat
County Lyon State KS

Location: API # : 15 111 20536
215' FSL & 420' FWL
SEC 25 TWP 16S RGE 10E

Other Services
ML
DIL

Elevation
K.B. 1340'
D.F. 1339'
G.L. 1332'

Permanent Datum Ground Level Elevation 1332'
Log Measured From KB 8' AGL
Drilling Measured From KB

Company John O. Farmer, Inc.
Well Nielsen #1
Field Wildcat
County Lyon
State KS

Date	5-9-18		
Run Number	One		
Depth Driller	3200'		
Depth Logger	3199'		
Bottom Logged Interval	3177'		
Top Log Interval	2400'		
Casing Driller	8 5/8" @ 220'		
Casing Logger	220'		
Bit Size	7 7/8"		
Type Fluid in Hole	Chemical Mud		
Density / Viscosity	9.3/43		
pH / Fluid Loss	10.5/9.6		
Source of Sample	Pit		
Rm @ Meas. Temp	2.6@88degf		
Rmf @ Meas. Temp	2.1@88degf		
Rmc @ Meas. Temp	3.33@88degf		
Source of Rmf / Rmc	Calculated		
Rm @ BHT	2.12@108degf		
Time Circulation Stopped	7:30 p.m		
Time Logger on Bottom	9:30 p.m		
Maximum Recorded Temperature	108degf		
Equipment Number	T127		
Location	Hays, KS.		
Recorded By	C.Patterson		
Witnessed By	Mr. Austin Klaus		

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Comments

East out of Council Grove12 mi. to F Rd., South on F Rd. 2.6 mi. to Rd.320,
East on Rd, 320 for 10 yards, North into

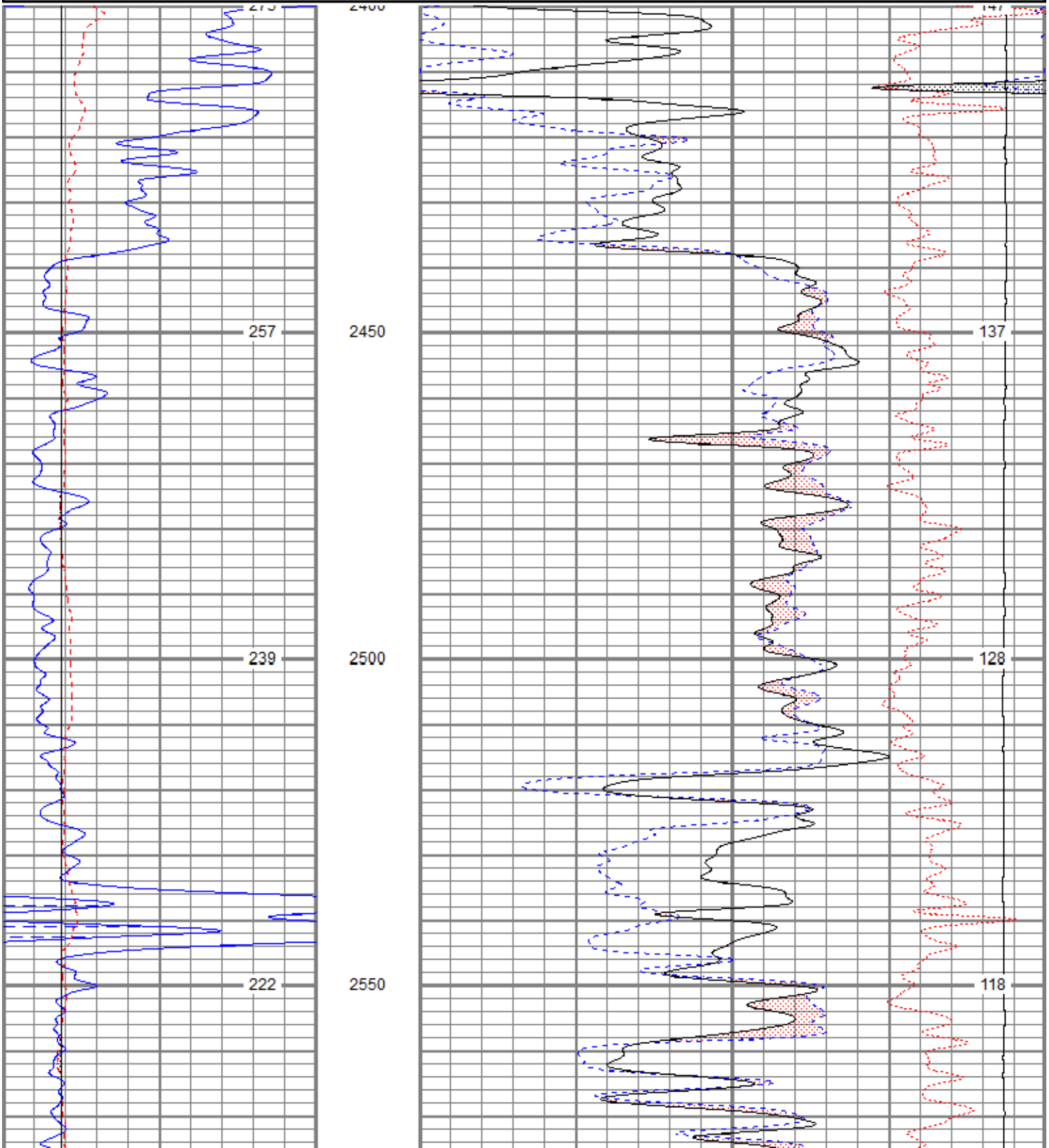
Thank you for using Gemini Wireline
785-625-1182

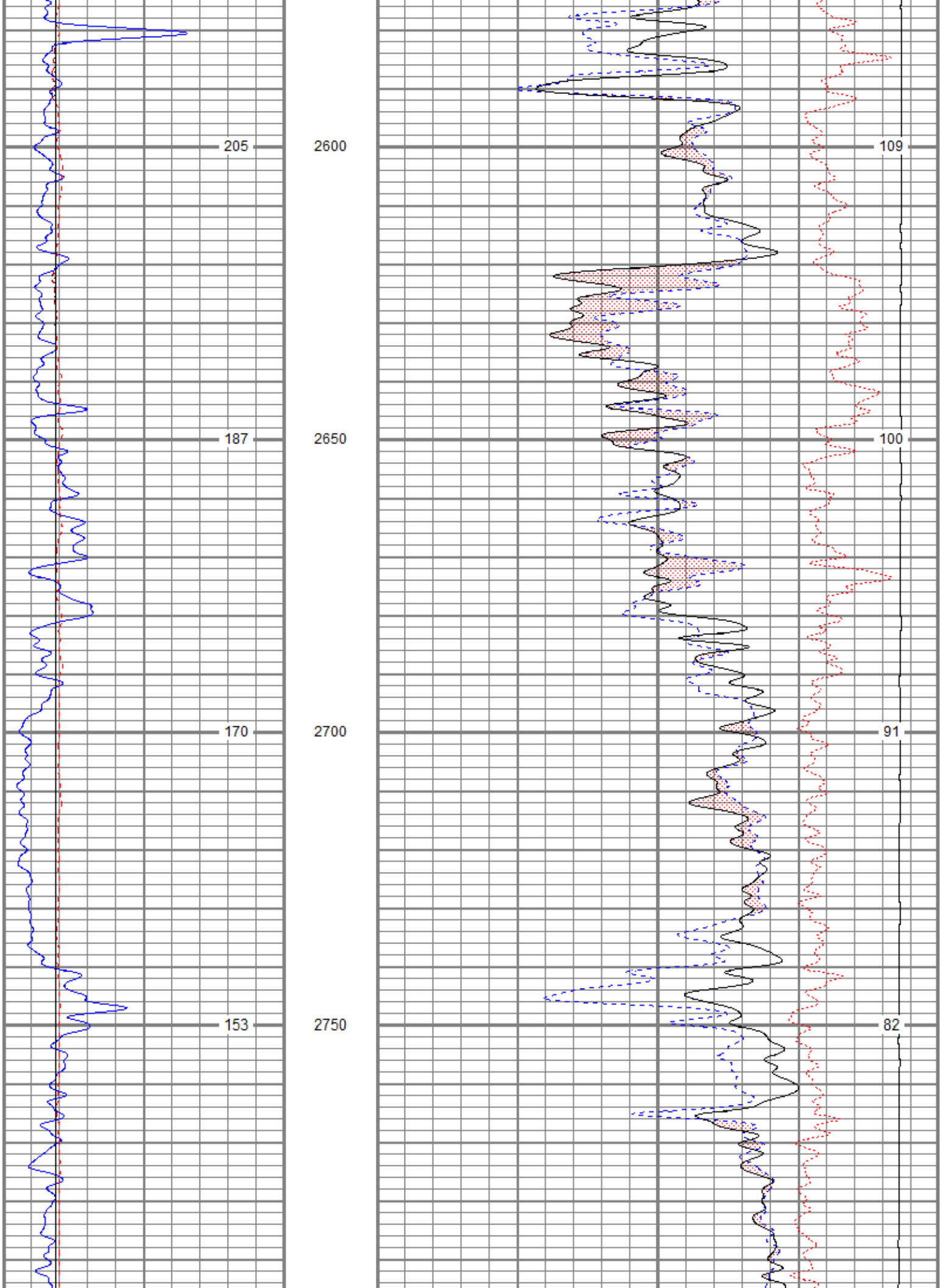
MAIN PASS

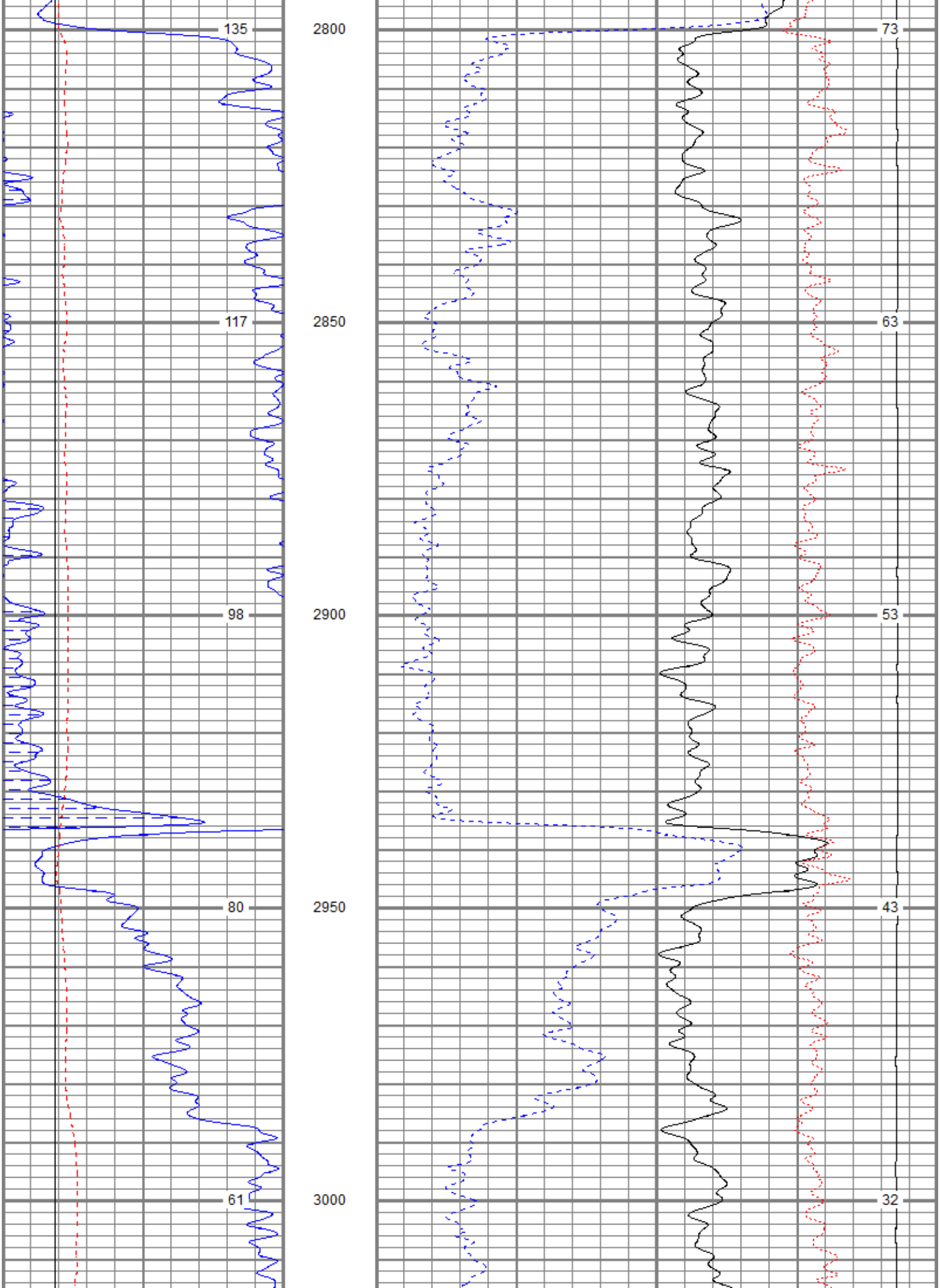
Database File	jofnielsen1oh.db
Dataset Pathname	pass4.2
Presentation Format	kcdnl
Dataset Creation	Wed May 09 23:28:24 2018
Charted by	Depth in Feet scaled 1:240

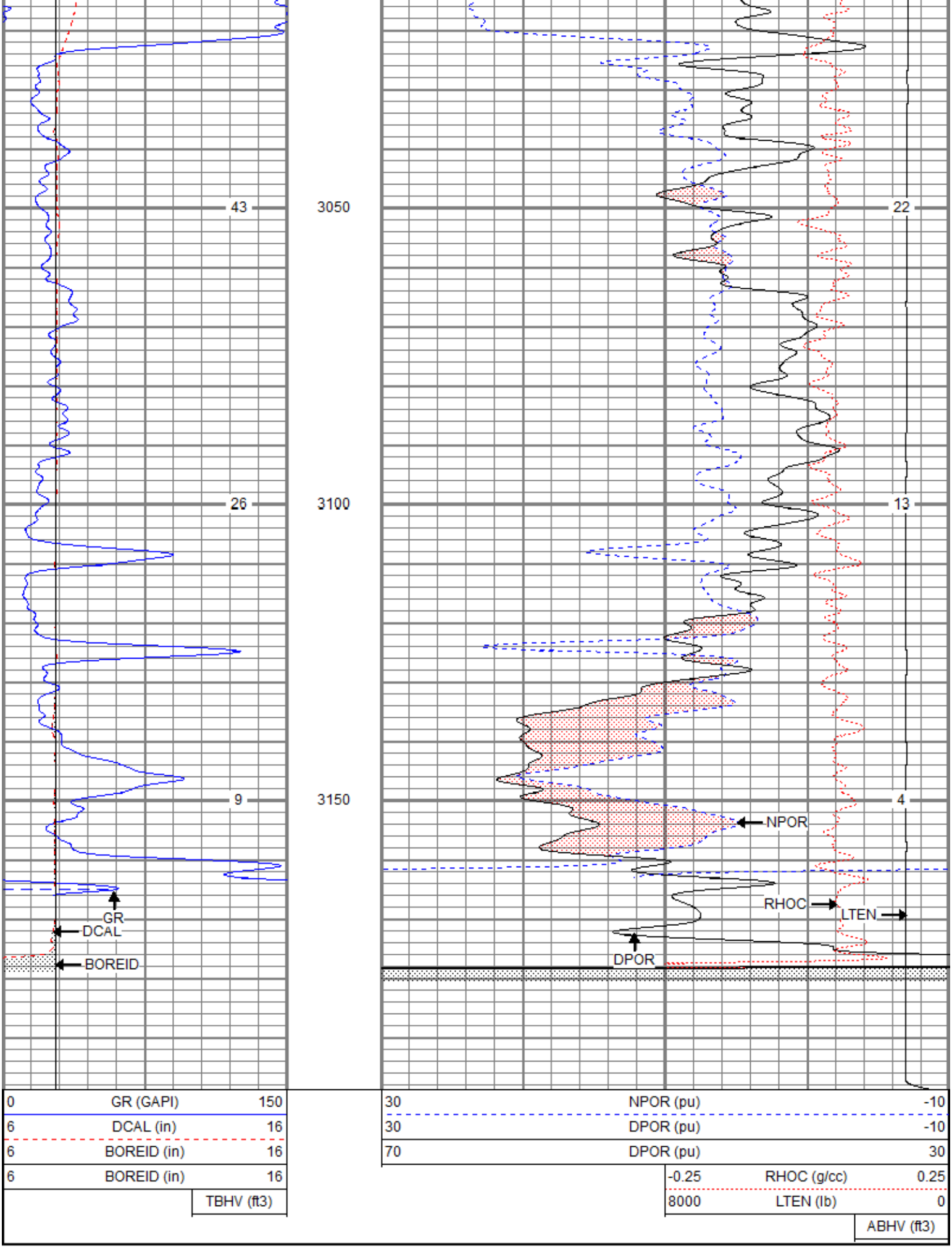
0	GR (GAPI)	150
6	DCAL (in)	16
6	BOREID (in)	16
6	BOREID (in)	16
	TBHV (ft3)	

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)	




205
187
170
153
2600
2650
2700
2750
109
100
91
82


135
117
98
80
61
2800
2850
2900
2950
3000
73
63
53
43
32

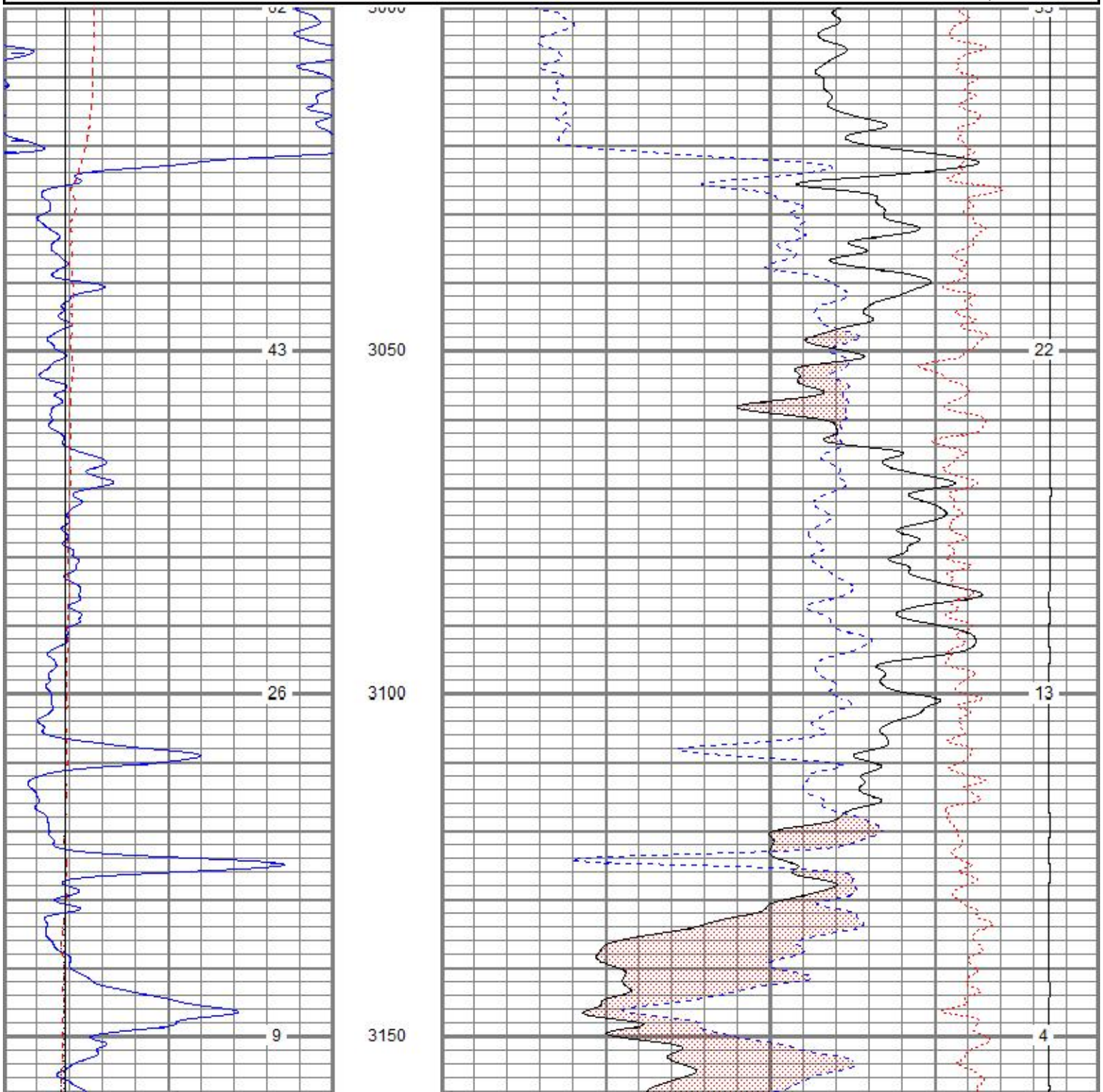

43
3050
22
26
3100
13
9
3150
4
GR
DCAL
BOREID
NPOR
RHOC
LTEN
DPOR
0 GR (GAPI) 150
6 DCAL (in) 16
6 BOREID (in) 16
6 BOREID (in) 16
TBHV (ft3)
30 NPOR (pu) -10
30 DPOR (pu) -10
70 DPOR (pu) 30
-0.25 RHOC (g/cc) 0.25
8000 LTEN (lb) 0
ABHV (ft3)

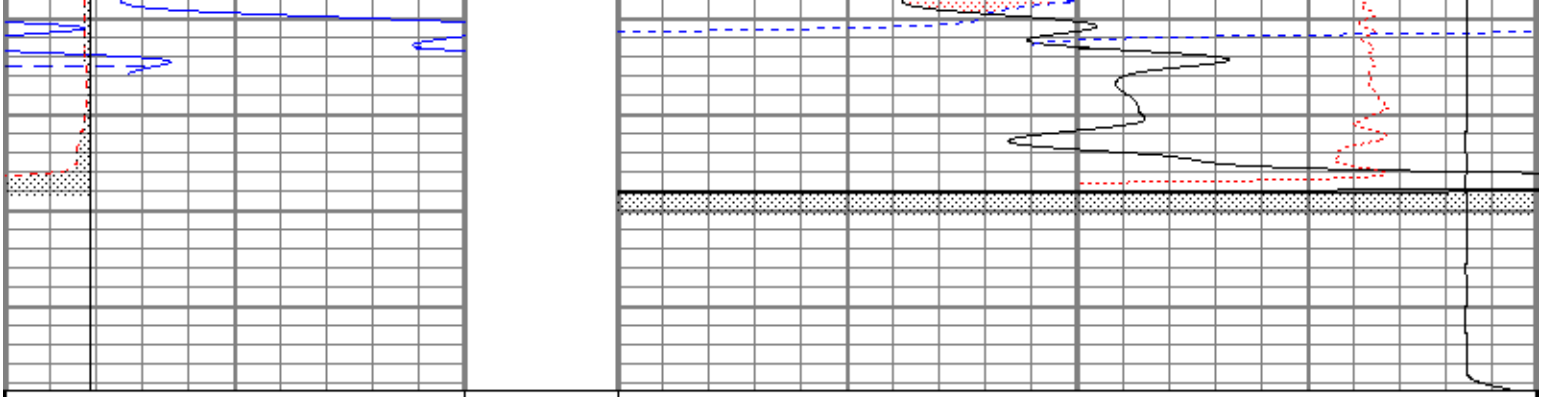
REPEAT SECTION

Database File	jofnielsen1oh.db
Dataset Pathname	pass2.4
Presentation Format	kcdnl
Dataset Creation	Wed May 09 23:39:20 2018
Charted by	Depth in Feet scaled 1:240

0	GR (GAPI)	150
6	DCAL (in)	16
6	BOREID (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 jofnielsen1oh.db
Dataset Pathname pass4.2
Dataset Creation Wed May 09 23:28:24 2018

Dual Induction Calibration Report

Serial-Model:	1989-ADM
Surface Cal Performed:	Wed Feb 14 05:11:38 2018
Downhole Cal Performed:	Wed Feb 14 05:12:25 2018
After Survey Verification Performed:	Wed Feb 14 05:12:25 2018

Surface Calibration

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	-0.009	0.667	V	0.000	350.000	mmho/m	517.989	4.543
Medium	-0.004	0.750	V	0.000	400.000	mmho/m	530.106	2.252
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	-0.009	0.665	V	0.000	350.000	mmho/m	519.279	4.570
Medium	-0.005	0.750	V	0.000	550.000	mmho/m	728.849	3.479

Downhole Calibration

	Readings			References			Results	
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.003	350.326	mmho/m	-0.016	349.115	mmho/m	0.997	-0.019
Medium	-0.828	398.900	mmho/m	-0.278	399.748	mmho/m	1.001	0.551
Shallow	2.506	0.018	V	500.000	2.000	Ohm-m	205.206	-4.659

After Survey Verification

	Readings			Targets			Results	
Internal:	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	0.003	350.326	mmho/m	0.997	-0.019
Medium	0.000	0.000	mmho/m	-0.828	398.900	mmho/m	1.001	0.551
Shallow	0.000	0.000	Ohm-m	500.000	2.000	Ohm-m	1.000	0.000

Compensated Density Calibration Report

Serial-Model:	9300PHT-PHT

Serial-Model:	2388DH1-DH1
Source / Verifier:	csv j12 / csv j12
Master Calibration Performed:	Sun Aug 13 21:51:41 2017
Before Survey Verification Performed:	
After Survey Verification Performed:	

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.750	g/cc	825.09	253.60	cps
Aluminum	2.680	g/cc	159.18	174.22	cps

Spine Angle = 77.15 Density/Spine Ratio = 0.551

	Size		Reading
Small Ring	8.30	in	5982.32
Large Ring	16.00	in	10612.00

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:	Sun Nov 12 16:26:41 2017	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.7000	GAPI/cps

Neutron Calibration Report

Serial Number:	5109	
Tool Model:	P	
Performed:	Mon Feb 06 08:44:38 2012	
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	36.92		NEU-P (5109) Probe	4.92	3.63	85.00
GR	30.56		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	22.02				
DCAL	21.73				
SSD	21.48				
HEADVOLT	19.71				
SP	10.60	DIL-ADM (1989) Dual Induction	19.71	4.00	300.00
CILD	10.60				
CILM	6.89				
RLL3	1.70				

Dataset:	jofnielsen1oh.db: field/well/run1/pass4.2
Total length:	38.63 ft
Total weight:	631.00 lb
O.D.:	4.00 in