

Company	John O Farmer Inc.	Company	John O Farmer Inc.	
Well	Waugh A#1	Well	Waugh A#1	
Field	Wildcat	Field	Wildcat	
County	Wabaunsee	County	Wabaunsee	
State	Kansas	State	Kansas	
Location:	API # : 15 197 20293 1230' FSL & 2570' FEL			Other Services ML DIL
Permanent Datum Log Measured From	SEC 7	TWP 15S	RGE 12E	Elevation K.B. 1327' D.F. 1327' G.L. 1319'
Drilling Measured From	KB			
Date	10-26-11			
Run Number	One			
Depth Driller	3144'			
Depth Logger	3140'			
Bottom Logged Interval	3114'			
Top Log Interval	2200'			
Casing Driller	305'			
Casing Logger	305'			
Bit Size	7 7/8"			
Type Fluid in Hole	Chemical Mud			
Density / Viscosity	9.3/52			
pH / Fluid Loss	9.5/9.2			
Source of Sample	Pit			
Rm @ Meas. Temp	3@71degf			
Rmf @ Meas. Temp	2.25@71degf			
Rmc @ Meas. Temp	4.8@71degf			
Source of Rmf / Rmc	Calculated			
Rm @ BHT	1.78@120degf			
Time Circulation Stopped	7:15 a.m.			
Time Logger on Bottom	10:00 a.m.			
Maximum Recorded Temperature	120			
Equipment Number	T045			
Location	Hays, KS.			
Recorded By	L. Smith			
Witnessed By	Mr. Ted Pfau			

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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

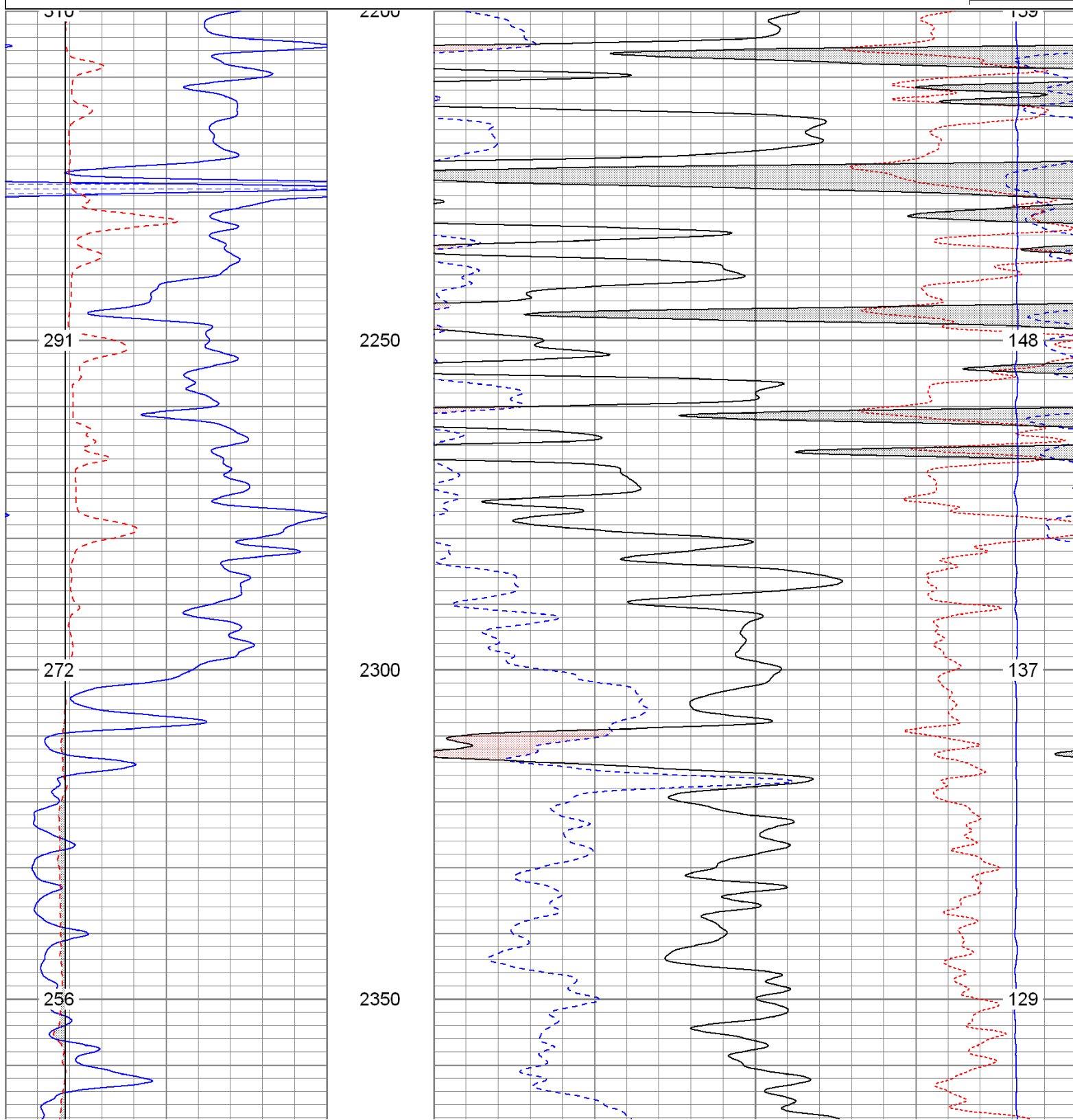
ABHV Calculated For 5.5" Casing

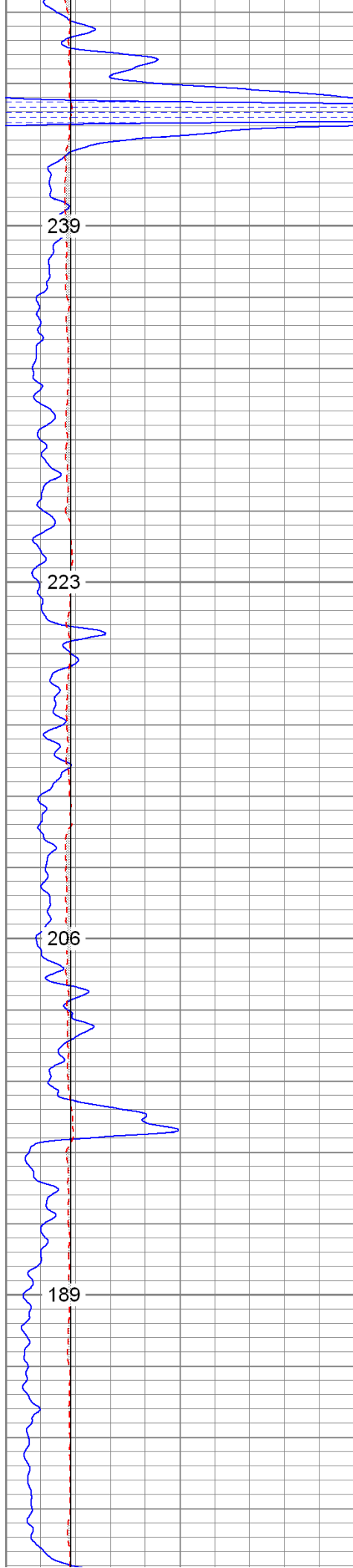
6.5 S of Eskridge, 1.5 W on Elm Creek Rd.

Thank you for using The Perforators LLC
Hays, KS (785) 621-4604

Database File: jofwaugha#1.db
 Dataset Pathname: pass2.1
 Presentation Format: kcdnl
 Dataset Creation: Wed Oct 26 11:47:23 2011 by Calc Open-Cased 100827
 Charted by: Depth in Feet scaled 1:240

0	GR (GAPI)	150	30	NPOR (pu)	-10	
6	DCAL (in)	16	30	DPOR (pu)	-10	
6	BOREID (in)	16	70	DPOR (pu)	30	
TBHV (ft3)				-0.25	RHOC (g/cc)	0.25
				8000	LTEN (lb)	0
						ABHV (ft3)



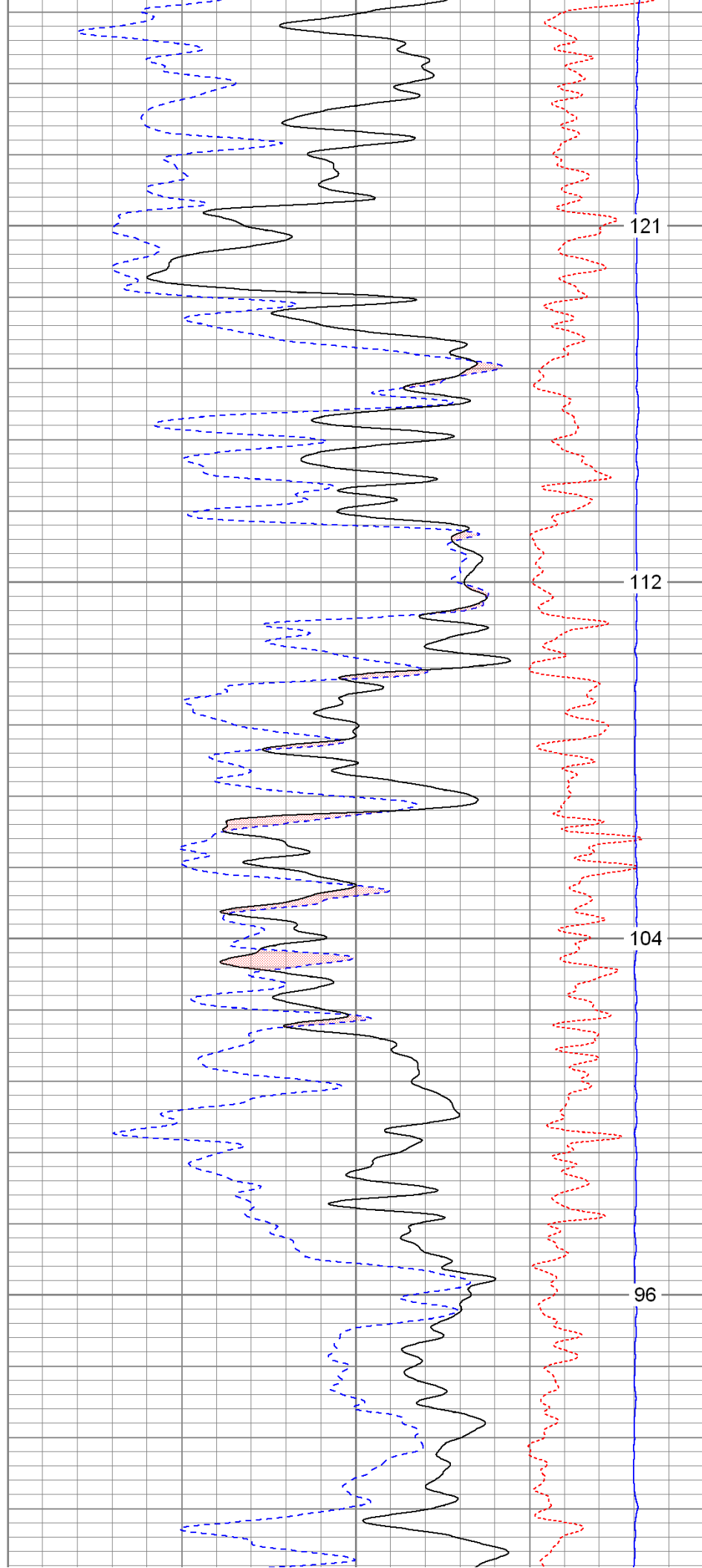


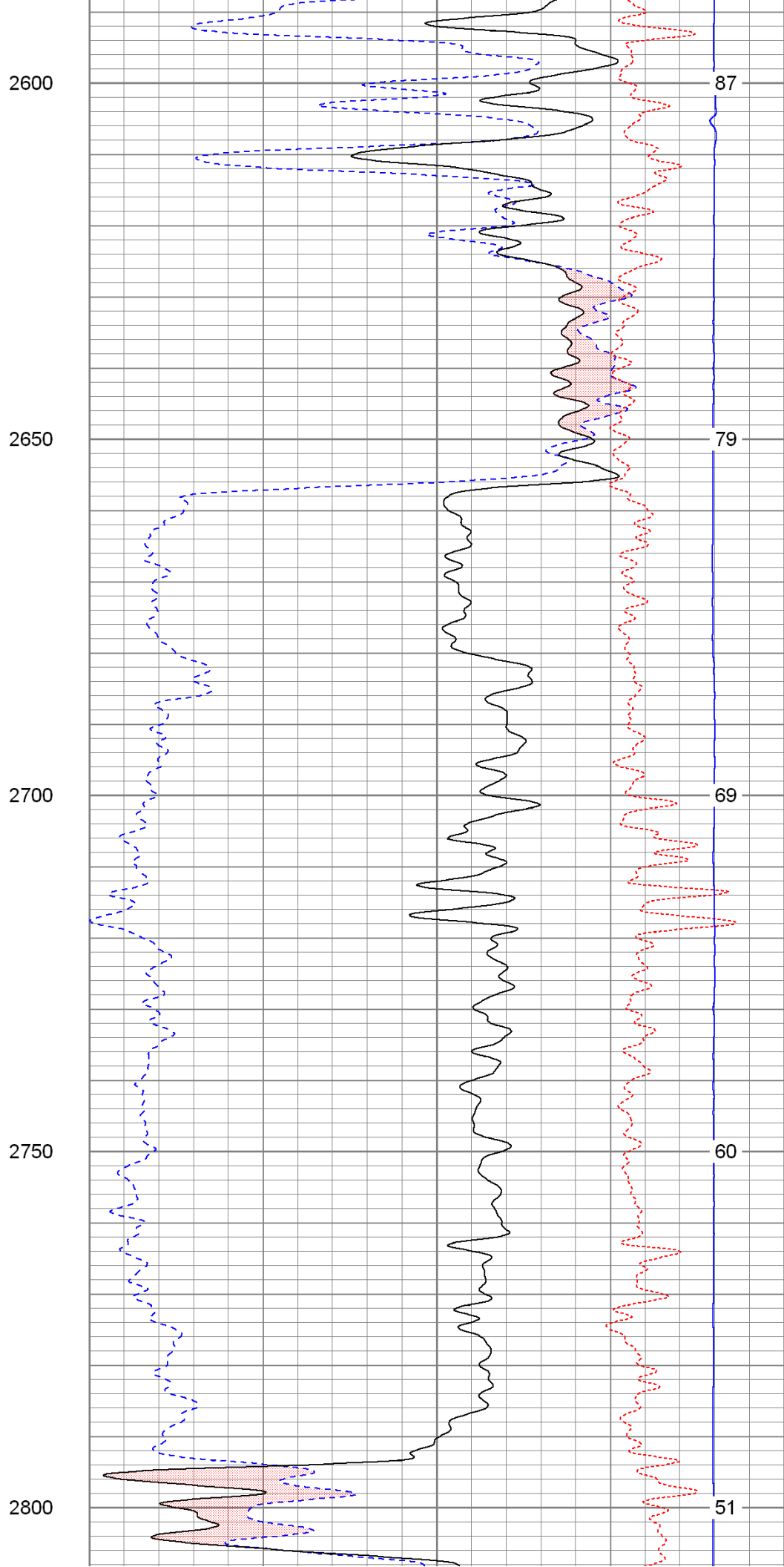
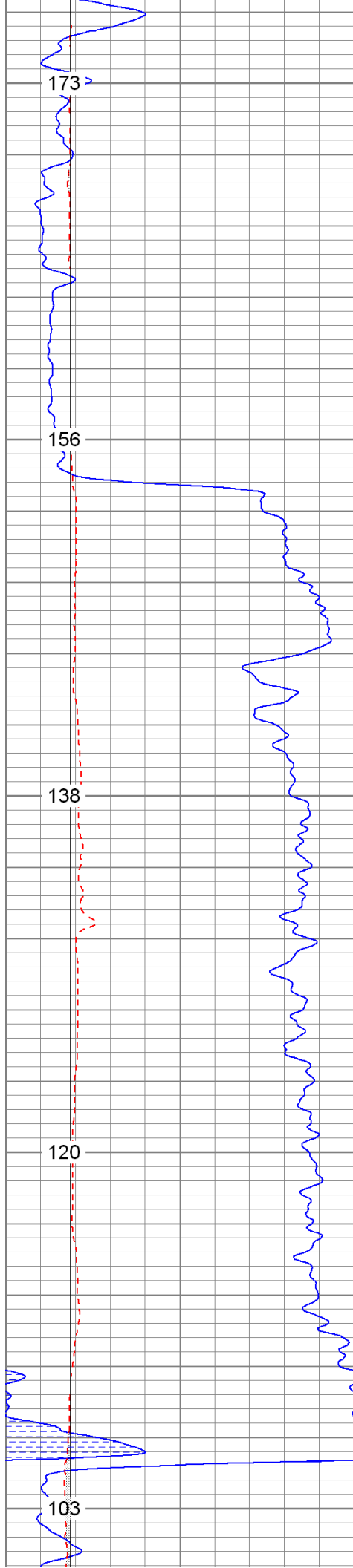
2400

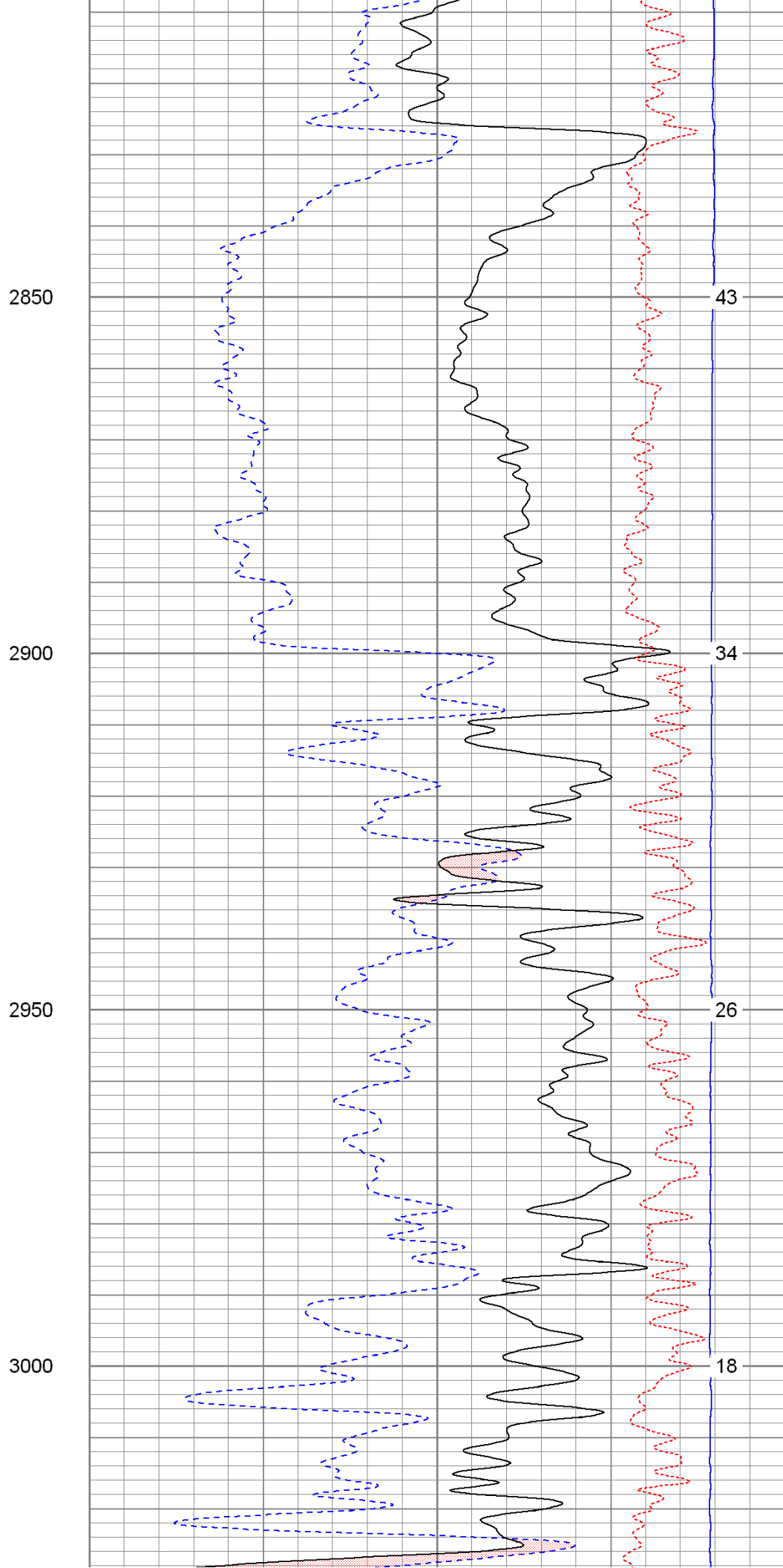
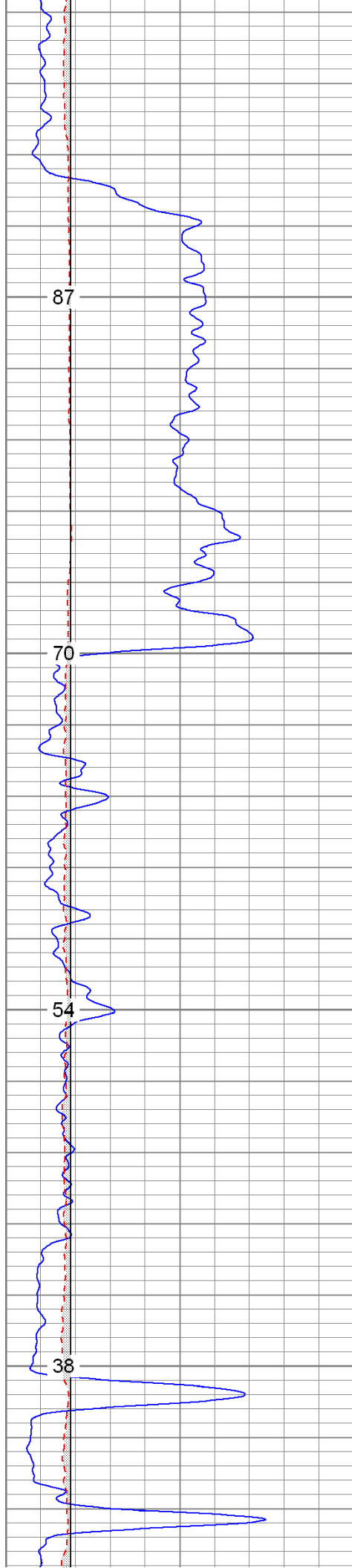
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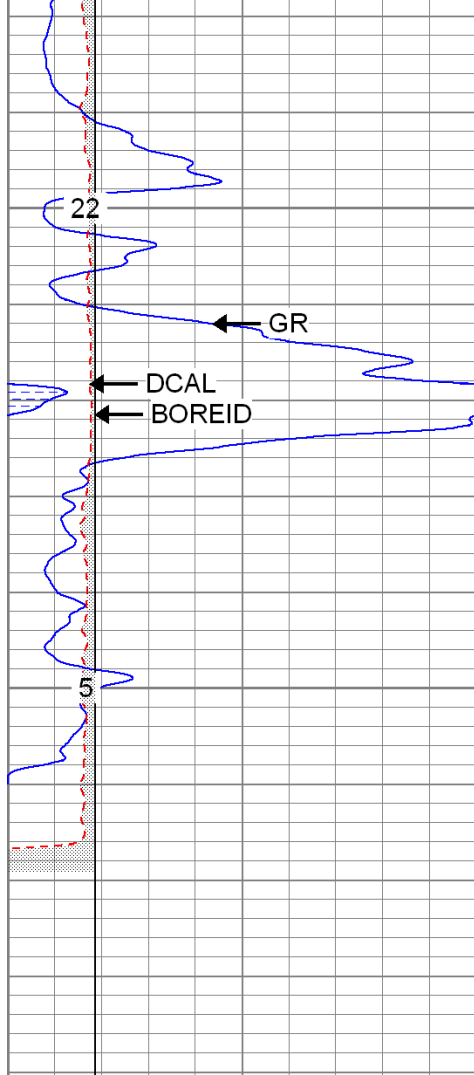
2500

2550







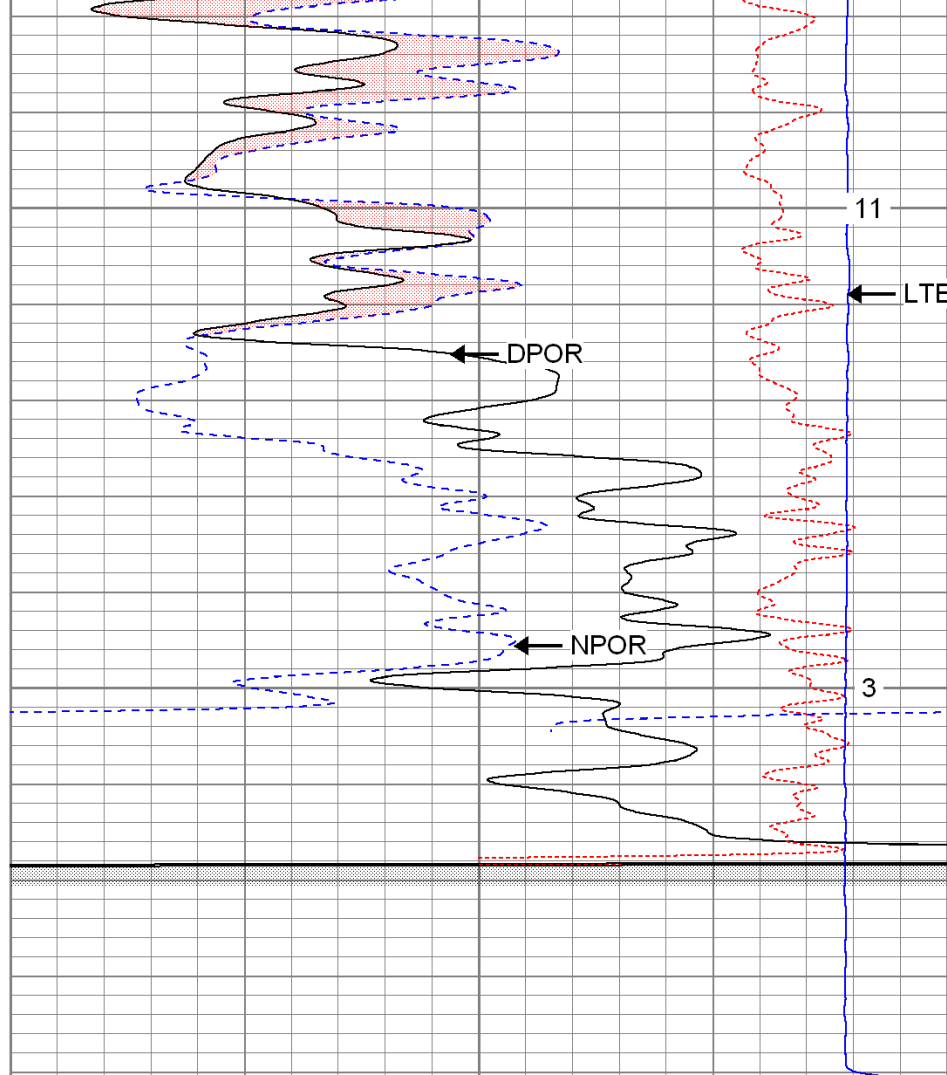


0	GR (GAPI)	150
6	DCAL (in)	16
6	BOREID (in)	16

TBHV (ft3)

3050

3100



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 Pass

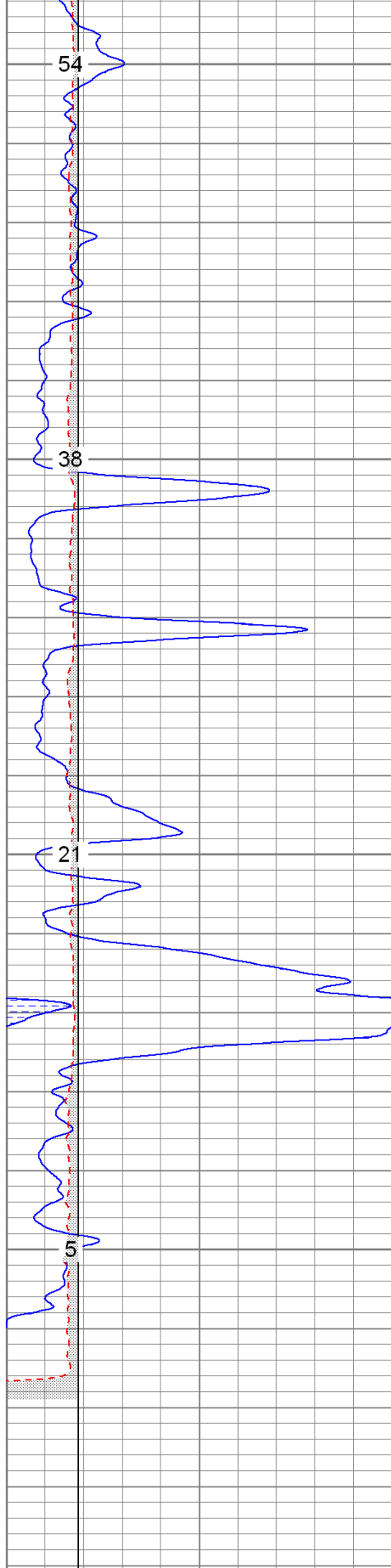
Database File: jofwaugha#1.db
 Dataset Pathname: pass1.1
 Presentation Format: kcdnl
 Dataset Creation: Wed Oct 26 10:28:46 2011 by Calc Open-Cased 100827
 Charted by: Depth in Feet scaled 1:240

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

TBHV (ft3)

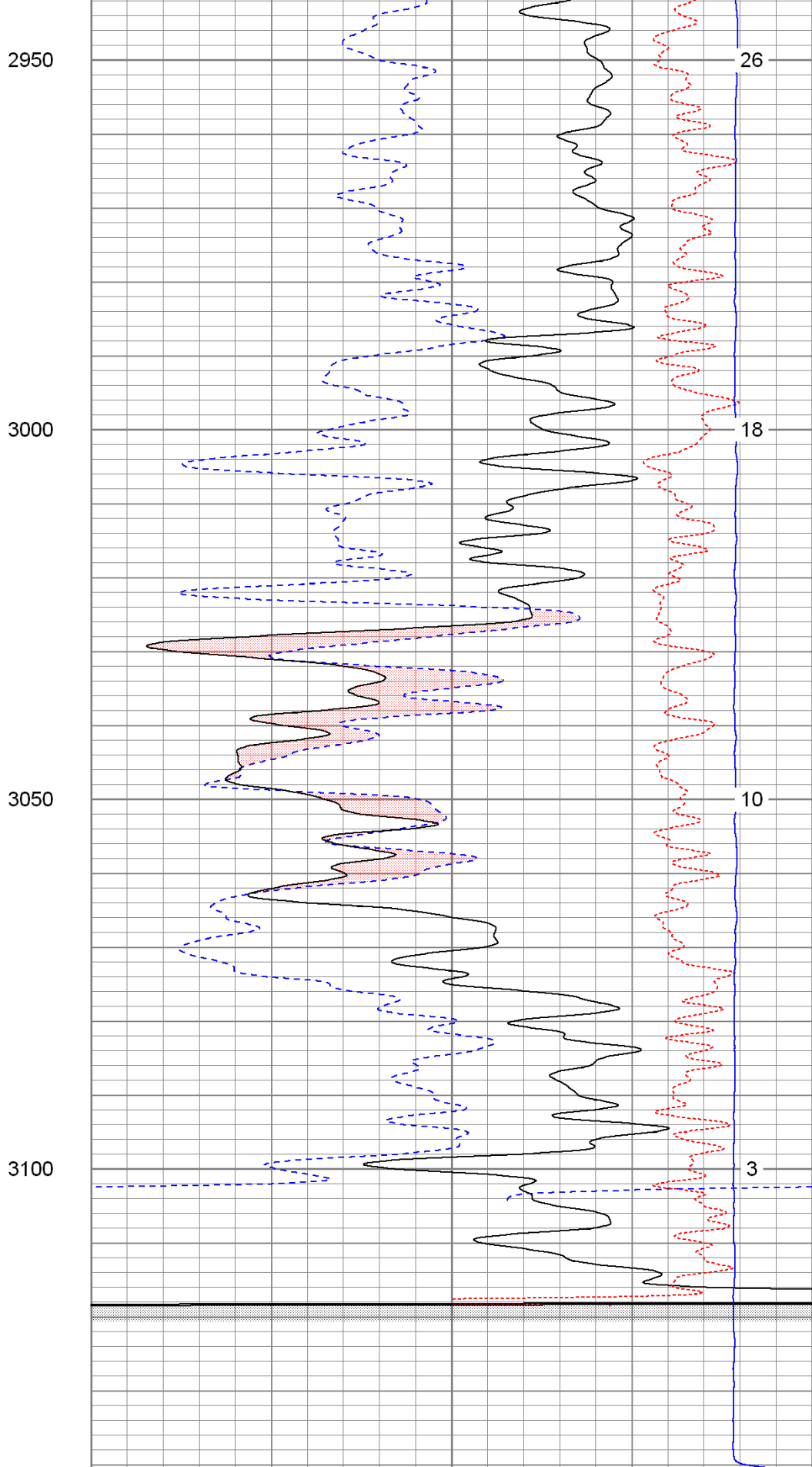
30	NPOR (pu)	-10
30	DPOR (pu)	-10
70	DPOR (pu)	30

-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 I TEN (lb)

Calibration Report

Database File: jofwaugha#1.db
 Dataset Pathname: pass1
 Dataset Creation: Wed Oct 26 10:02:33 2011 by Log Open-Cased 100827

Dual Induction Calibration Report

Serial-Model: 5375-G
 Surface Cal Performed: Thu Oct 20 12:47:11 2011
 Downhole Cal Performed: Thu Oct 20 12:47:50 2011

Surface Calibration

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.002	0.640	V	0.000	350.000	mmho/m	548.515	-0.941
Medium	0.005	0.741	V	0.000	400.000	mmho/m	543.569	-2.777
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.002	0.640	V	0.000	350.000	mmho/m	548.463	-1.028
Medium	0.005	0.742	V	0.000	550.000	mmho/m	746.572	-3.700

Downhole Calibration

Readings				References			Results	
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.298	349.896	mmho/m	0.087	350.121	mmho/m	1.001	-0.211
Medium	0.040	400.070	mmho/m	-0.083	400.365	mmho/m	1.001	-0.123
Shallow	2.471	0.009	V	500.000	2.000	Ohm-m	180.293	0.157

Compensated Density Calibration Report

Serial-Model: 2388DHT-DHT
 Source / Verifier: /
 Master Calibration Performed: Mon Sep 26 12:42:46 2011

Master Calibration

	Density			Far Detector	Near Detector	
Magnesium	1.750	g/cc		688.93	303.28	cps
Aluminum	2.670	g/cc		128.53	194.02	cps
Spine Angle = 75.10				Density/Spine Ratio = 0.530		
	Size			Reading		
Small Ring	8.15	in		5771.32		
Large Ring	14.00	in		10165.20		

Gamma Ray Calibration Report

Serial Number: 2000
 Tool Model: P2000
 Performed: Sun Oct 23 08:45:30 2011

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:	Wed Oct 19 06:16:06 2011	
Calibrator Value:	1	NAPI
Calibrator Reading:	1	cps
Sensitivity:	1	NAPI/cps

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
NEU	37.96		None	0.75	1.50	5.00
			NEU-PROBE (5108) Probe	4.92	3.63	85.00
GR	32.57		GR-P2000 (2000)	3.67	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					
CILD	10.60		DIL-G (5375) Gearhart	21.47	4.00	345.00
SP	10.60					
CILM	6.89					
RLL3	1.70					

Dataset:
jofwaugha#1.db: field/well/run1/pass1

Total Length:
40.49 ft

Total Weight:
676.00 lb

O.D.
4.00 in