

COMPENSATED DENSITY NEUTRON LOG

Company	Charles N. Griffin	Company	Charles N. Griffin
Well	Scrivner #1B	Well	Scrivner #1B
Field	Wharton	Field	Wharton
County	Harper	County	Harper
State	Kansas	State	Kansas
Location:	API # : 15 007 21765 330' FNL & 1650' FEL		Other Services
Permanent Datum	SEC 9	TWP 34S	RGE 8W
Log Measured From	KB 9' AGL		
Drilling Measured From	KB		
Elevation	1338'		
DIL			
Date	10-24-11		
Run Number	One		
Depth Driller	5148'		
Depth Logger	5151'		
Bottom Logged Interval	5125'		
Top Log Interval	4000'		
Casing Driller	265'		
Casing Logger	265'		
Bit Size	7 7/8"		
Type Fluid in Hole	Chemical		
Density / Viscosity	9.3/44		
pH / Fluid Loss	11.0/12.0		
Source of Sample	Pit		
Rm @ Meas. Temp	1.98@64degf		
Rmf @ Meas. Temp	1.46@64degf		
Rmc @ Meas. Temp	3.17@64degf		
Source of Rmf / Rmc	Calculated		
Rm @ BHT	1.02@124degf		
Time Circulation Stopped	1:30 a.m.		
Time Logger on Bottom	4:45 a.m.		
Maximum Recorded Temperature	124 degf		
Equipment Number	T045		
Location	Hays, KS.		
Recorded By	L. Smith		
Witnessed By	Mr. Bruce Reed	Mr. J R Griffin	

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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

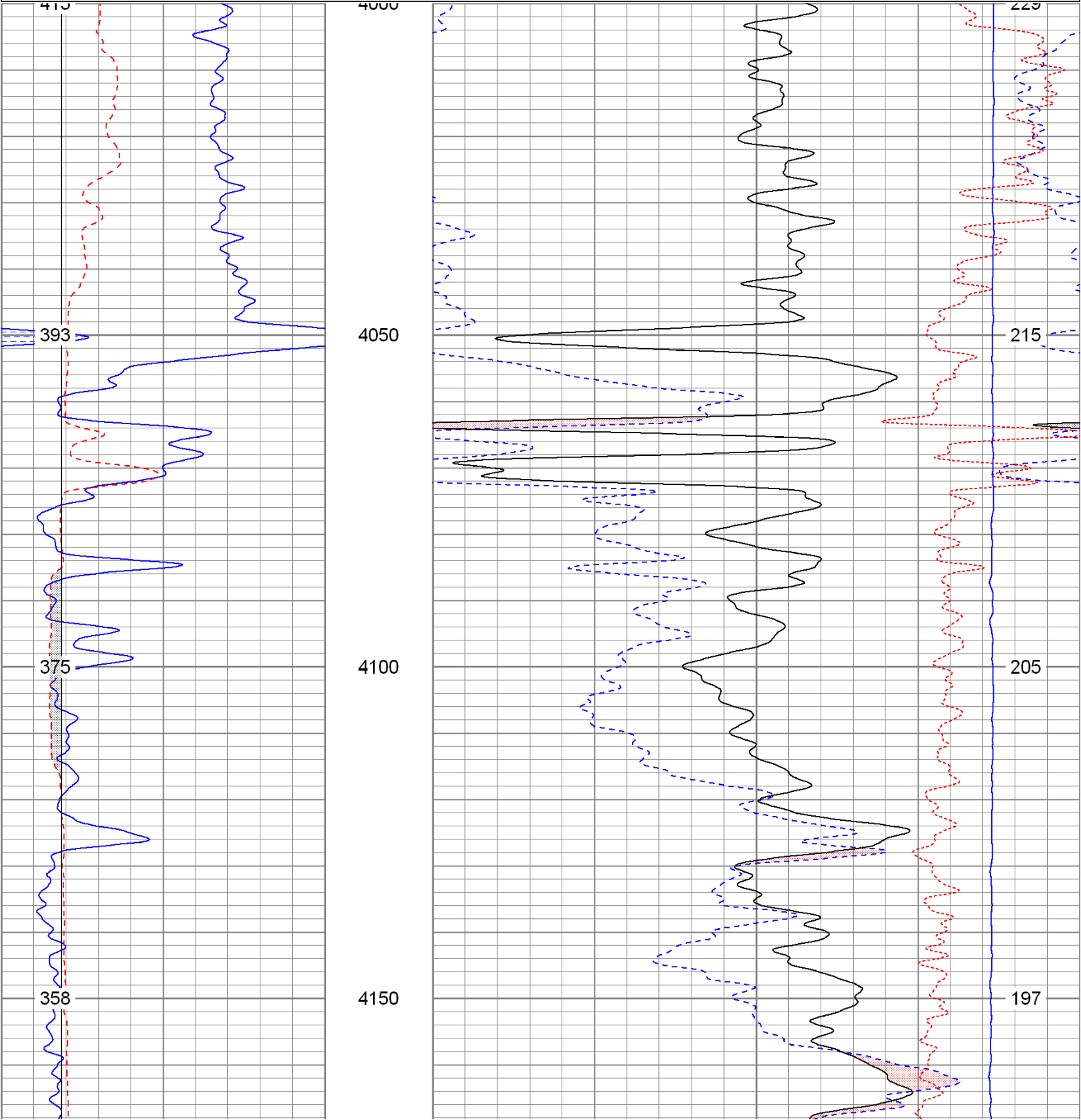
E of Medicine Lodge cross into Harper county and take 140th S to hyw 2, go E on hyw 2 to 80th rd., S on 80th 3 mi., W into.

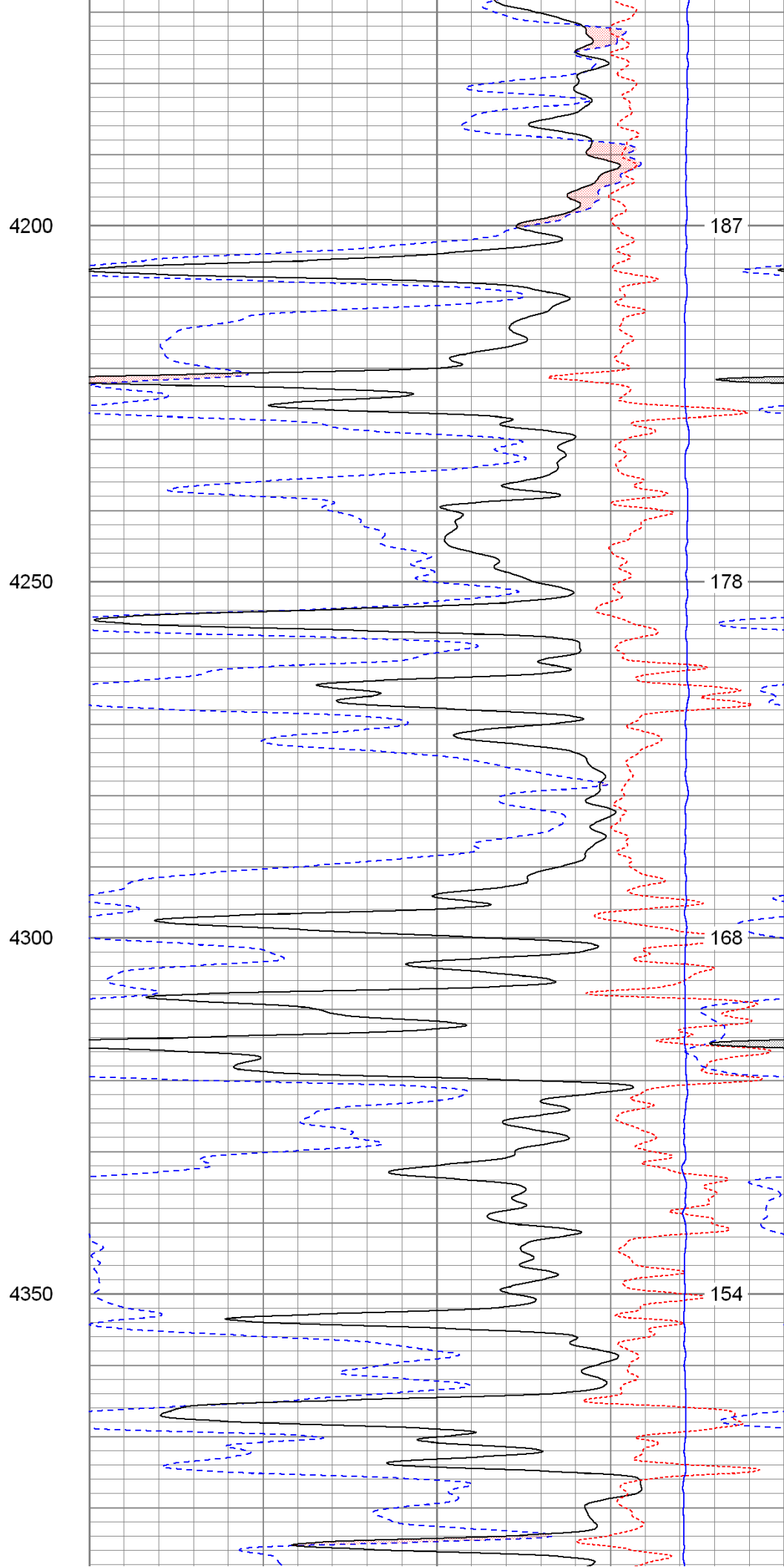
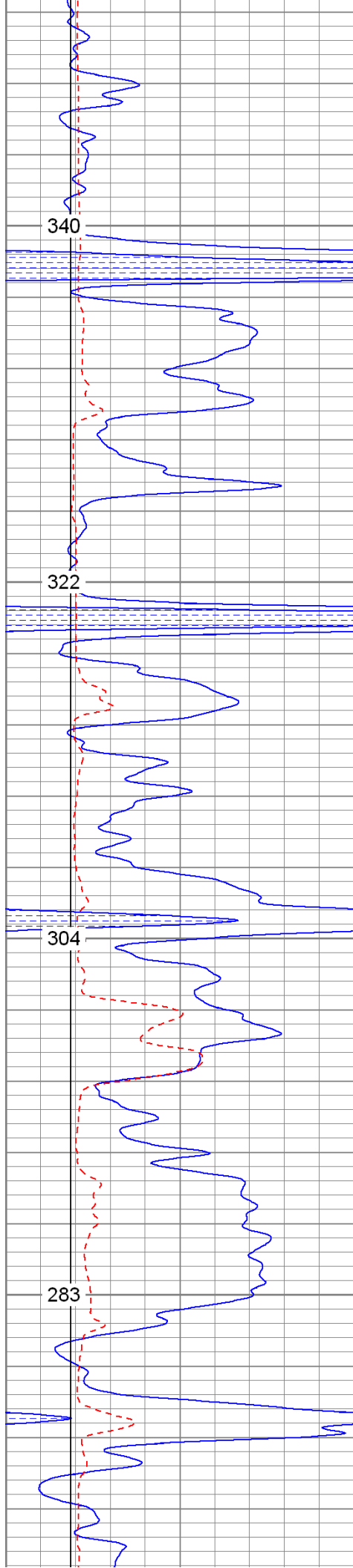
ABHV Caculated for 5.5" Casing.

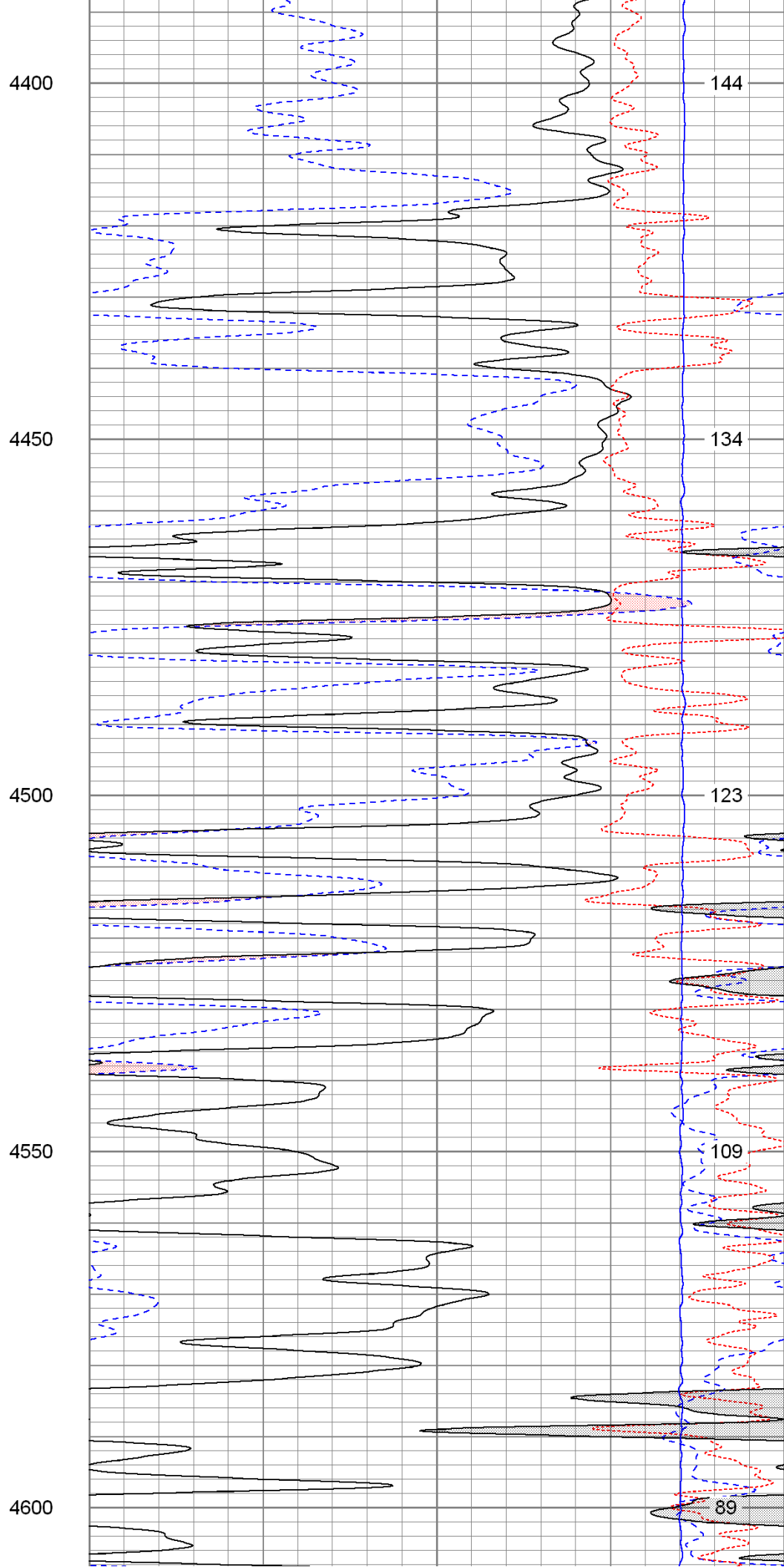
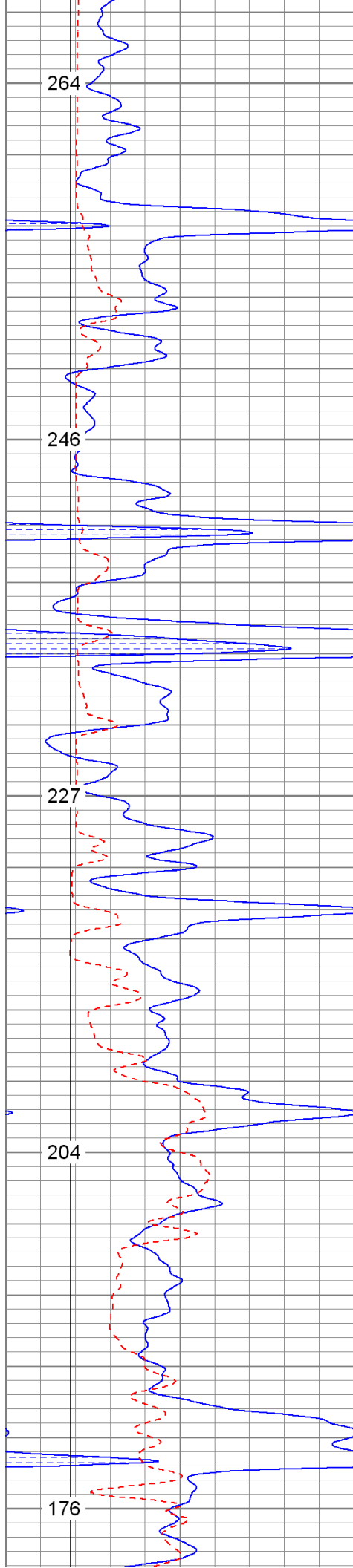
Thanks for using The Perforators LLC Hays, KS. (785-621-4604)

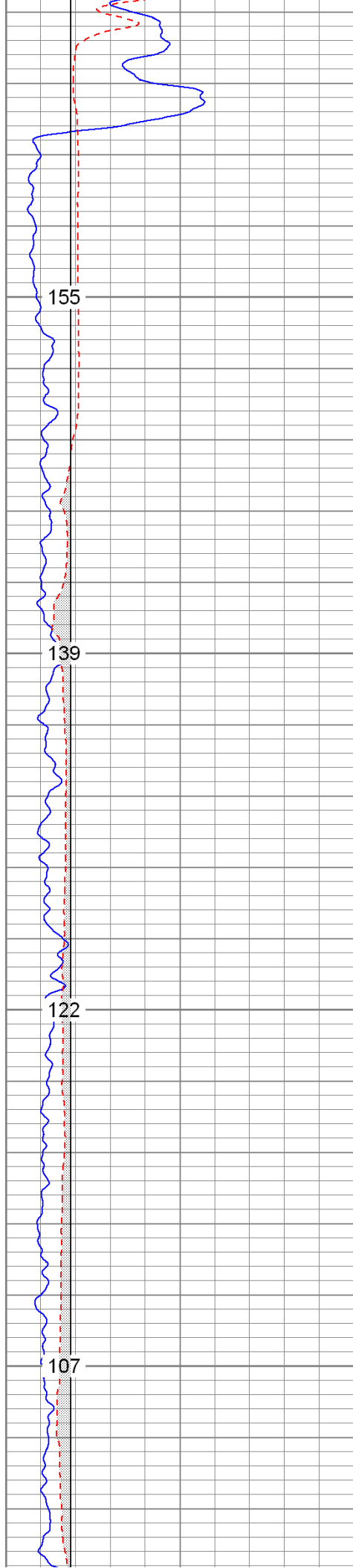
Database File: cgscribner#1oh.db
Dataset Pathname: pass2
Presentation Format: kcdnl
Dataset Creation: Mon Oct 24 04:53:14 2011 by Log Open-Cased 100827
Charted by: Depth in Feet scaled 1:240

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)







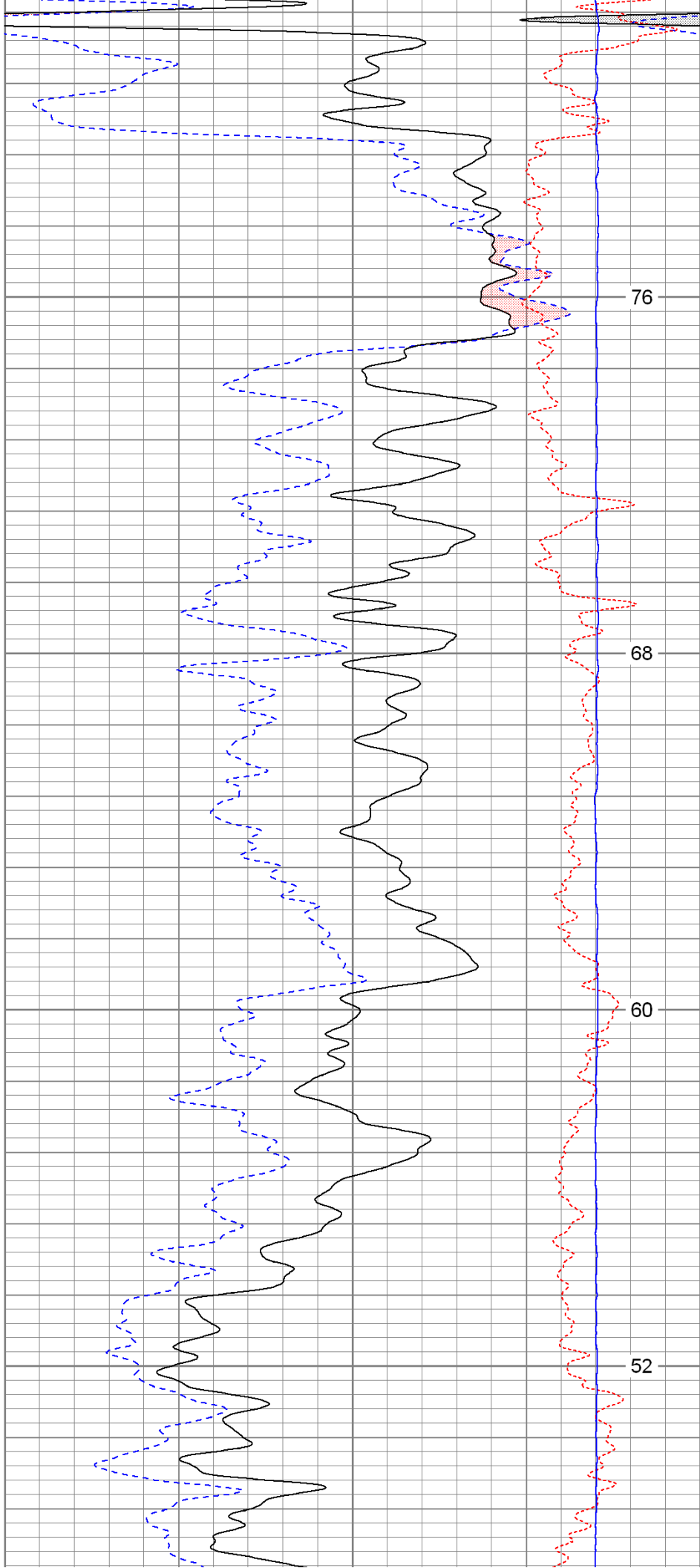


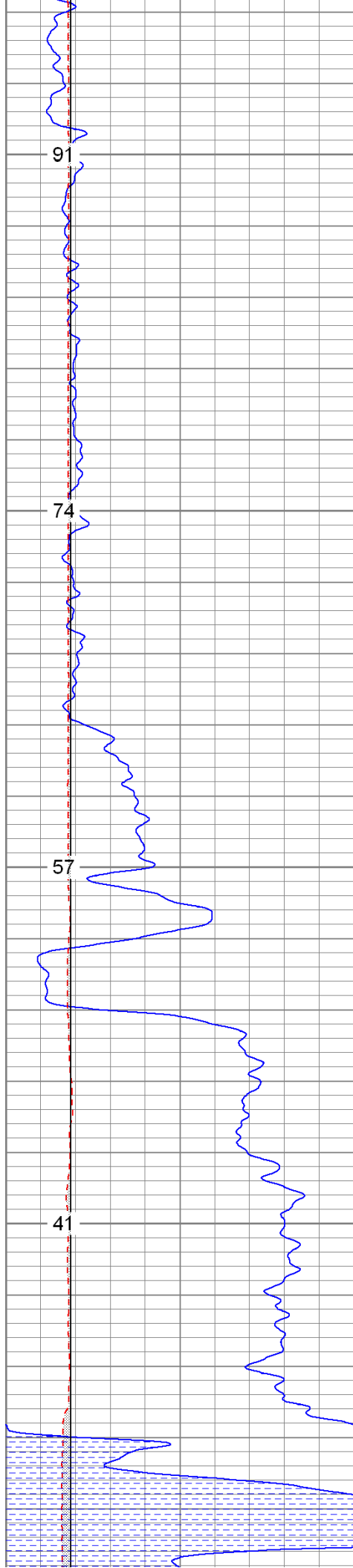
4650

4700

4750

4800



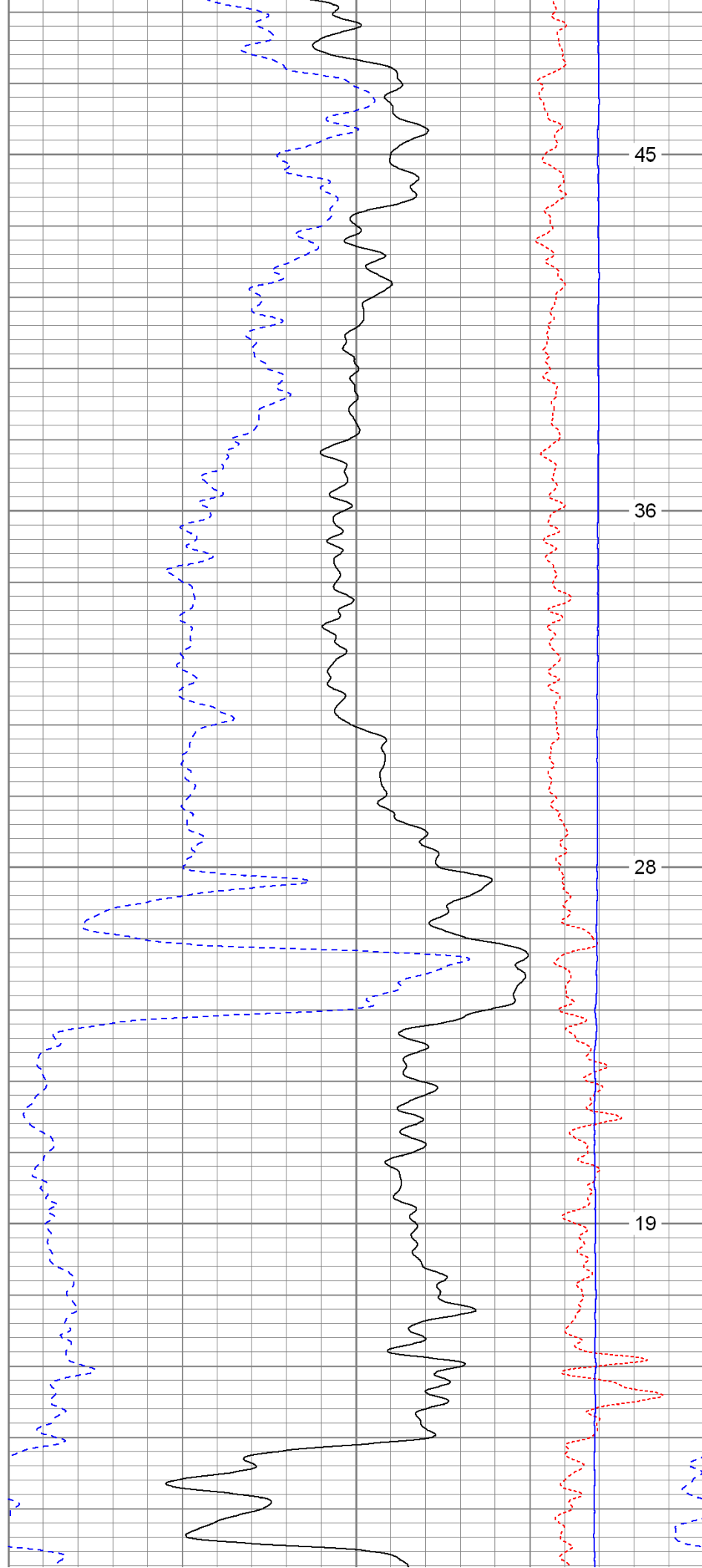


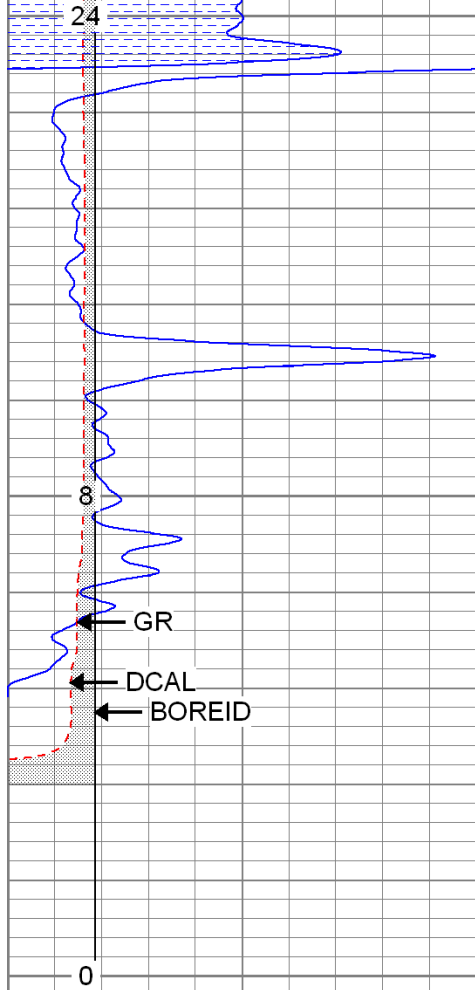
4850

4900

4950

5000





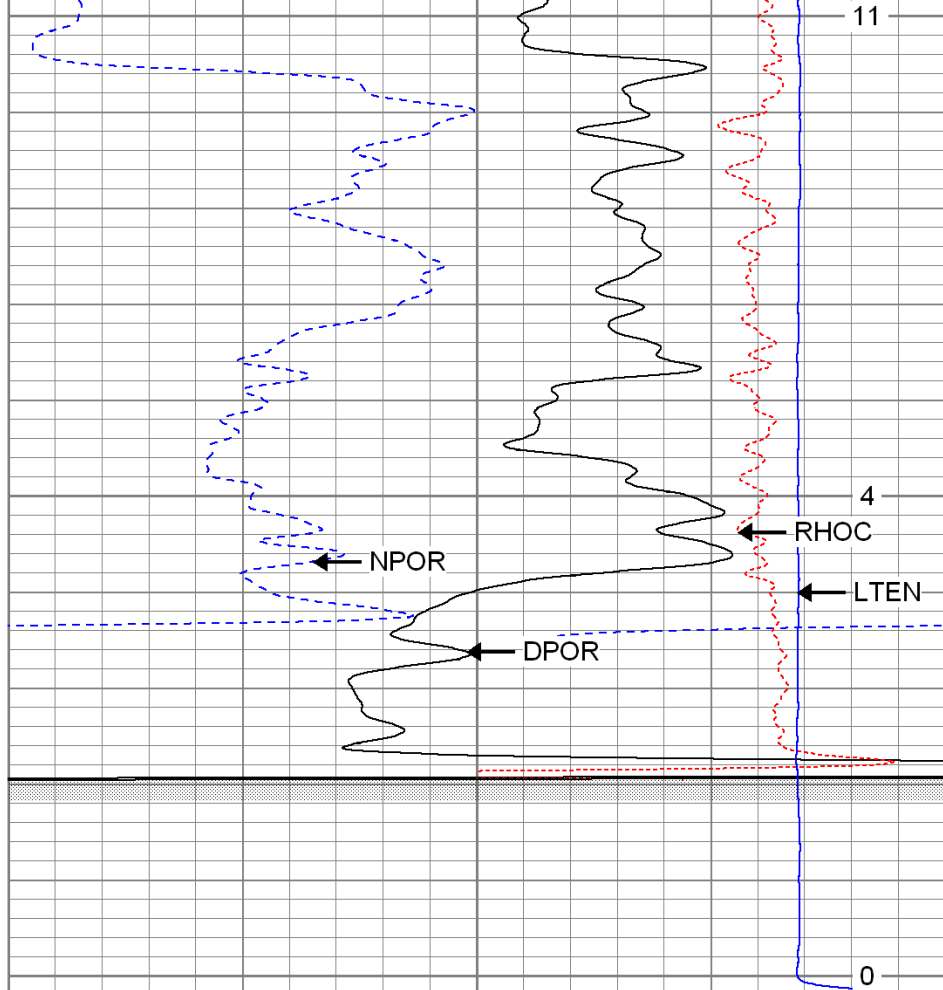
0	GR (GAPI)	150
6	DCAL (in)	16
6	BOREID (in)	16

TBHV (ft3)

5050

5100

5150



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: cgscribner#1oh.db
 Dataset Pathname: pass1
 Presentation Format: kcdnl
 Dataset Creation: Mon Oct 24 04:42:47 2011 by Log Open-Cased 100827
 Charted by: Depth in Feet scaled 1:240

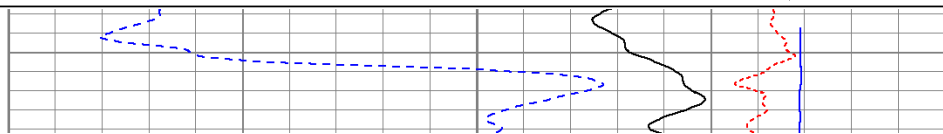
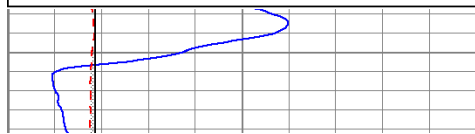
0	GR (GAPI)	150
6	DCAL (in)	16
6	BOREID (in)	16

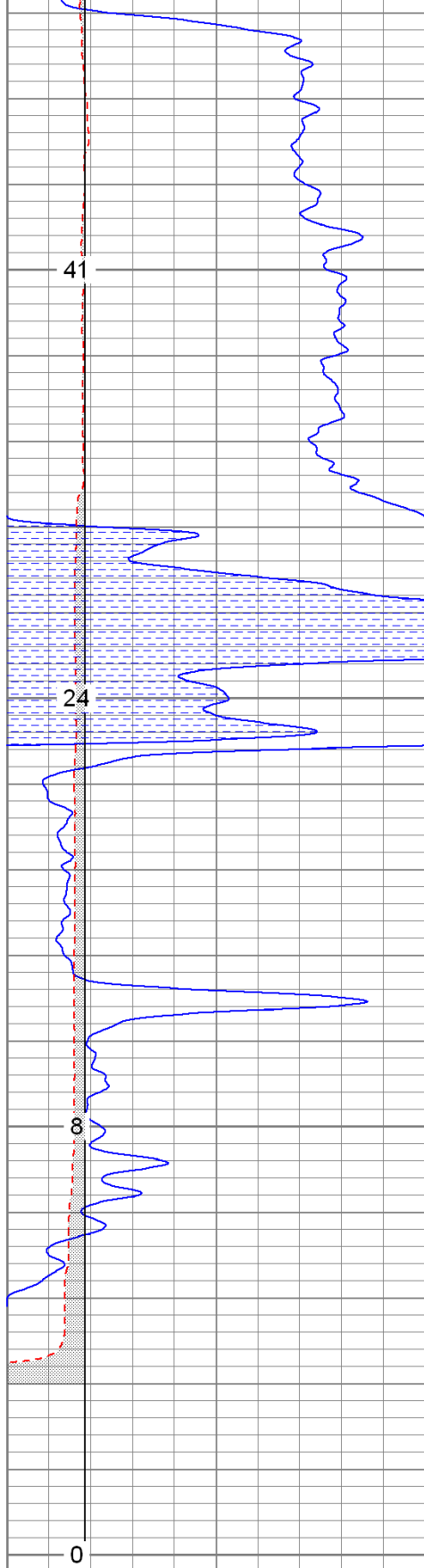
TBHV (ft3)

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

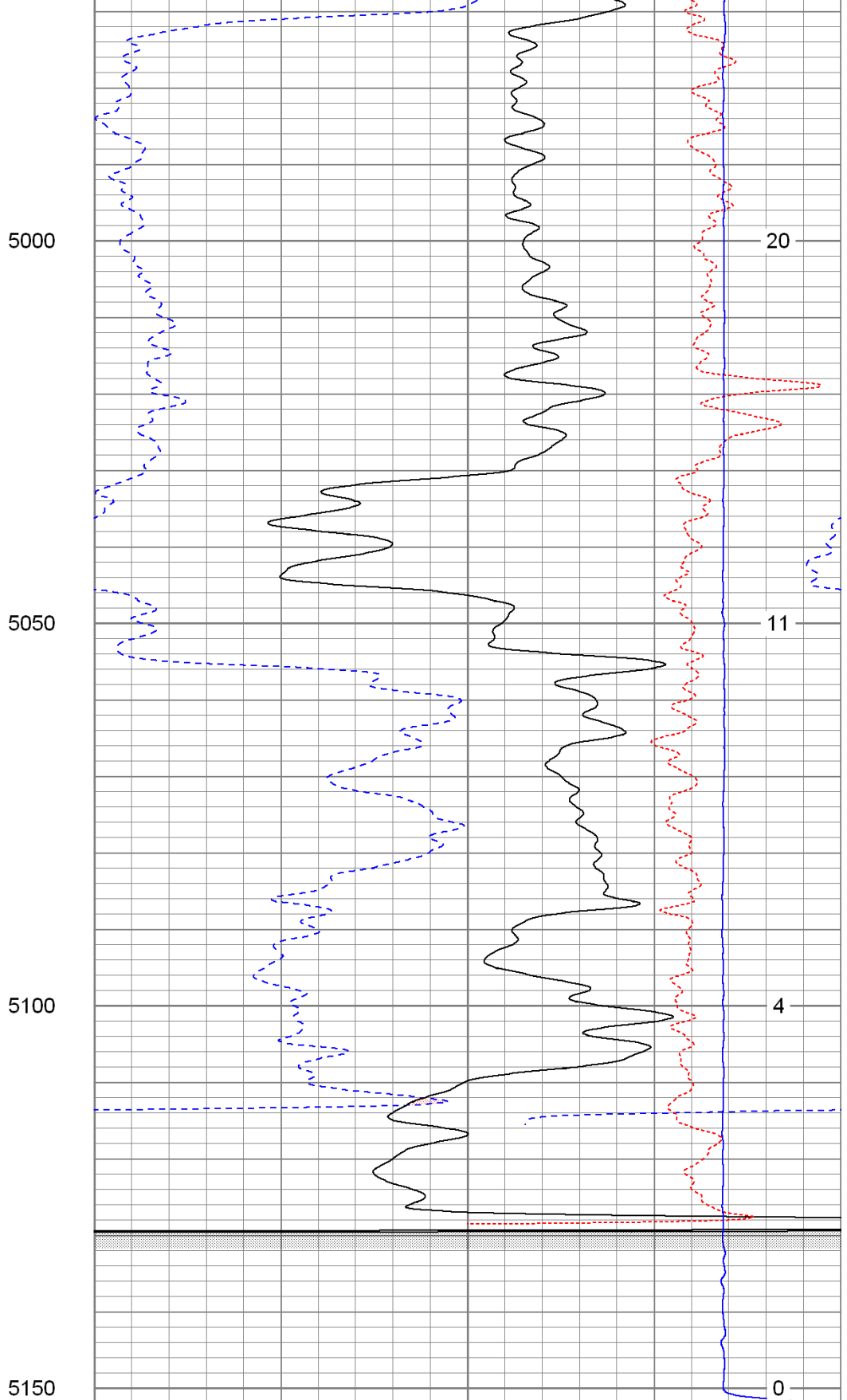
-0.25	RHOC (g/cc)	0.25
8000	LTEN (lb)	0

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	LTEN (lb)	0
ABHV (ft3)		

Calibration Report

Database File: cgscribner#1oh.db
 Dataset Pathname: pass1
 Dataset Creation: Mon Oct 24 04:42:47 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

Calibrator Value:	1	NAPI
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Calibrator Reading:	1	cps
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Sensitivity:	1	NAPI/cps
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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
LSD DCAL SSD HEADVOLT	23.78		CDL-DHT (2388DHT) Digital High Temp CDL Tool	9.69	4.00	201.00
	23.49					
	23.24					
	21.47					
CILD SP	10.60 10.60		DIL-G (5375) Gearhart	21.47	4.00	345.00
CILM	6.89					
RLL3	1.70					

Dataset:	cgscribner#1oh.db: field/well/run1/pass1
Total Length:	40.49 ft
Total Weight:	676.00 lb
O.D.	4.00 in