



**COMPENSATED DENSITY
NEUTRON
LOG**

Company Palomino Petroleum
 Well Whipple #1
 Field Manteno Southwest
 County Ness
 State Kansas

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Location: API #: 15 135 25529
 2543' FSL & 1393' FEL
 SEC 1 TWP 20S RGE 26W
 Permanent Datum Ground Level Elevation 2554'
 Log Measured From KB 10' AGL
 Drilling Measured From KB
 Other Services
 DIL
 BCS
 Elevation
 K.B. 2564'
 D.F. 2563'
 G.L. 2554'

Date	2-3-13
Run Number	One
Depth Driller	4650'
Depth Logger	4651'
Bottom Logged Interval	4628'
Top Log Interval	3700'
Casing Driller	8 5/8" @ 222'
Casing Logger	222'
Bit Size	7 7/8"
Type Fluid in Hole	Chemical
Density / Viscosity	9.4/45
pH / Fluid Loss	10.0/8.8
Source of Sample	Pit
Rm @ Meas. Temp	2@65degf
Rmf @ Meas. Temp	1.5@65degf
Rmc @ Meas. Temp	2.4@65degf
Source of Rmf / Rmc	Calculated
Rm @ BHT	1.14@114degf
Time Circulation Stopped	11:45 p.m.
Time Logger on Bottom	2:00 a.m.
Maximum Recorded Temperature	114degf
Equipment Number	T045
Location	Hays, KS
Recorded By	Gus Pfannenstiel
Witnessed By	Mr. Ryan Seib

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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



Main Pass

Database File: ppwhipple#1oh.db
 Dataset Pathname: pass2
 Presentation Format: kcdnl
 Dataset Creation: Sun Feb 03 02:26:34 2013 by Log Open-Cased 100827
 Charted by: Depth in Feet scaled 1:240

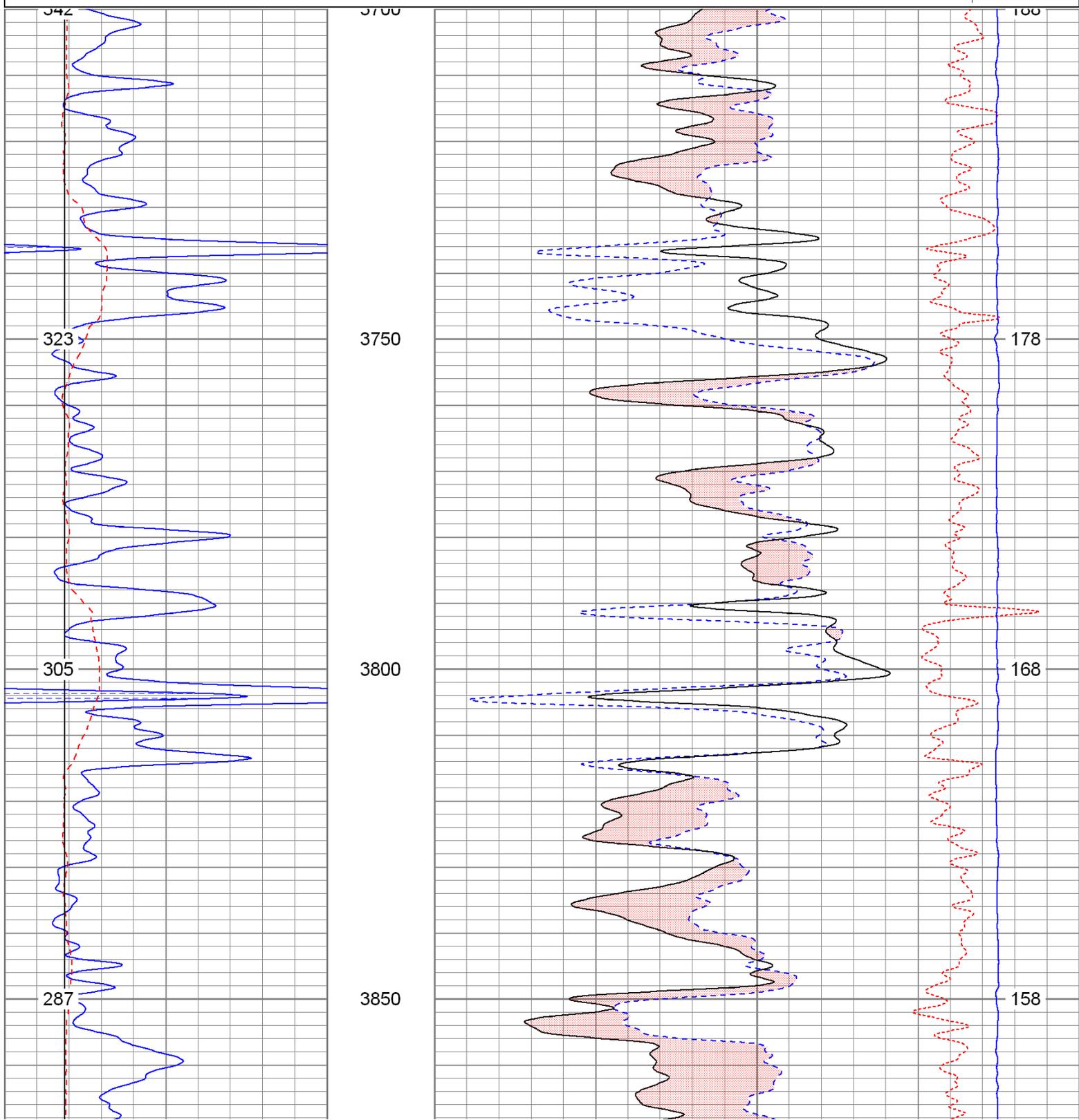
0	GR (GAPI)	150
6	DCAL (in)	16
6	BOREID (in)	16

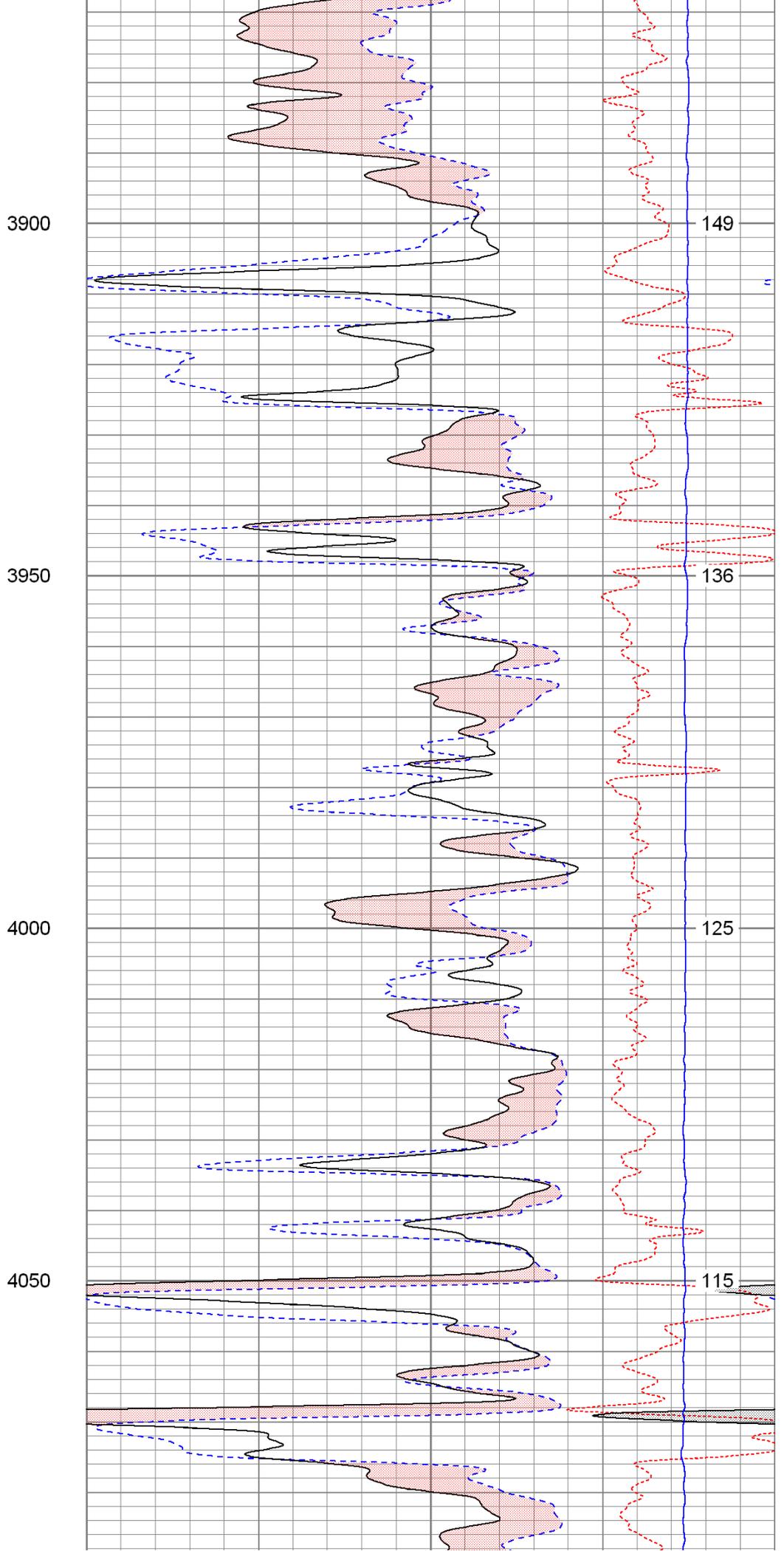
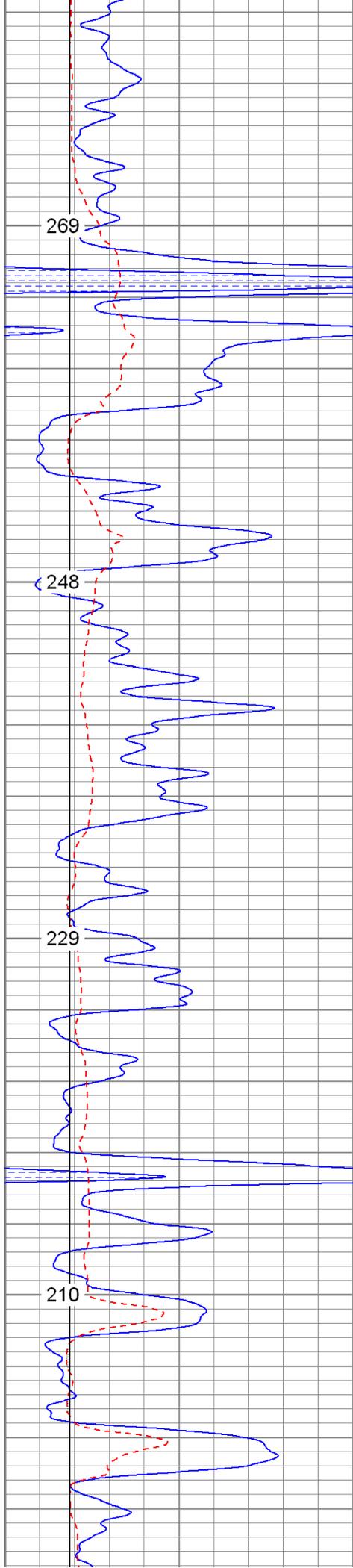
30	NPOR (pu)	-10
30	DPOR (pu)	-10
70	DPOR (pu)	30

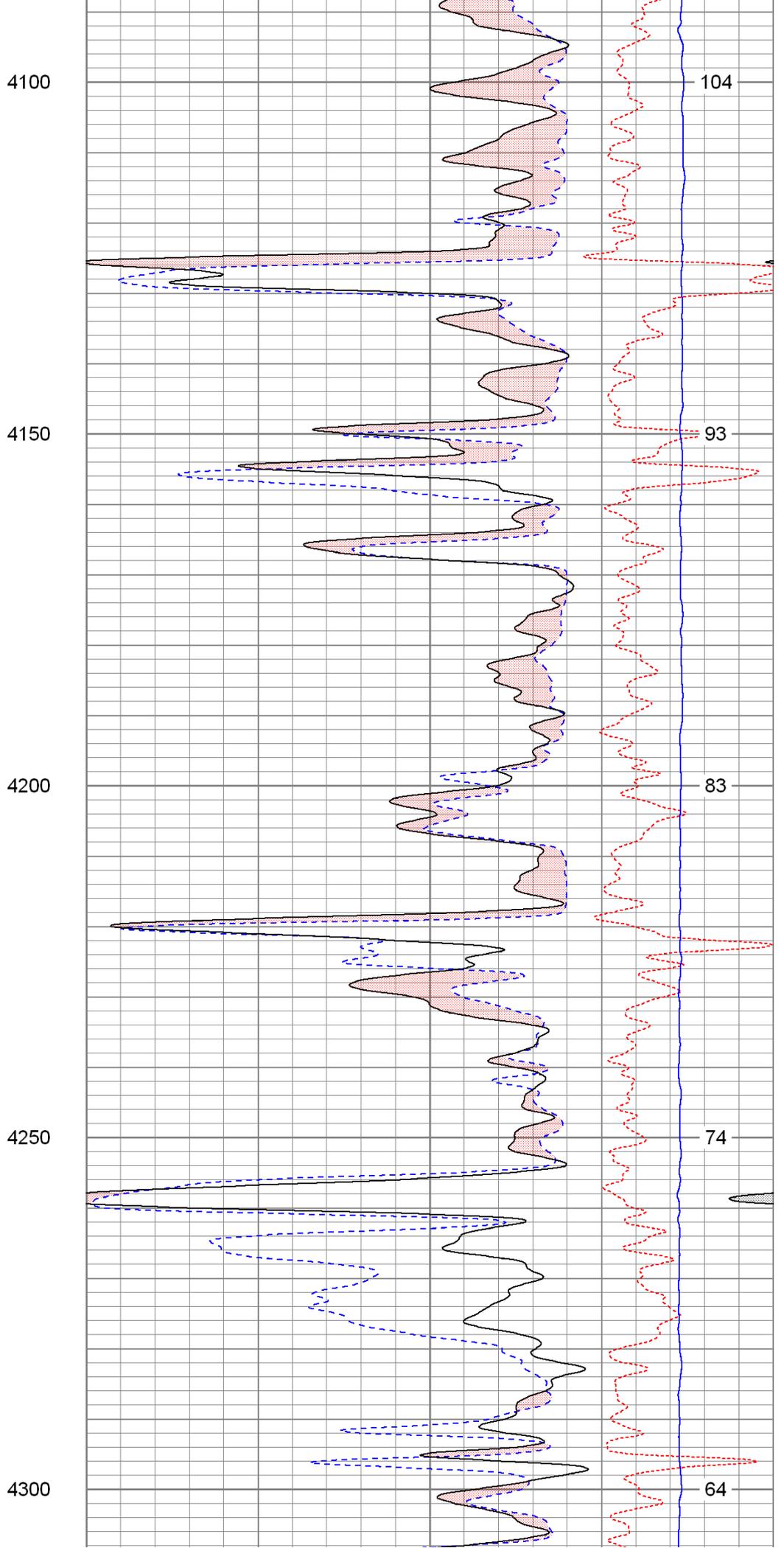
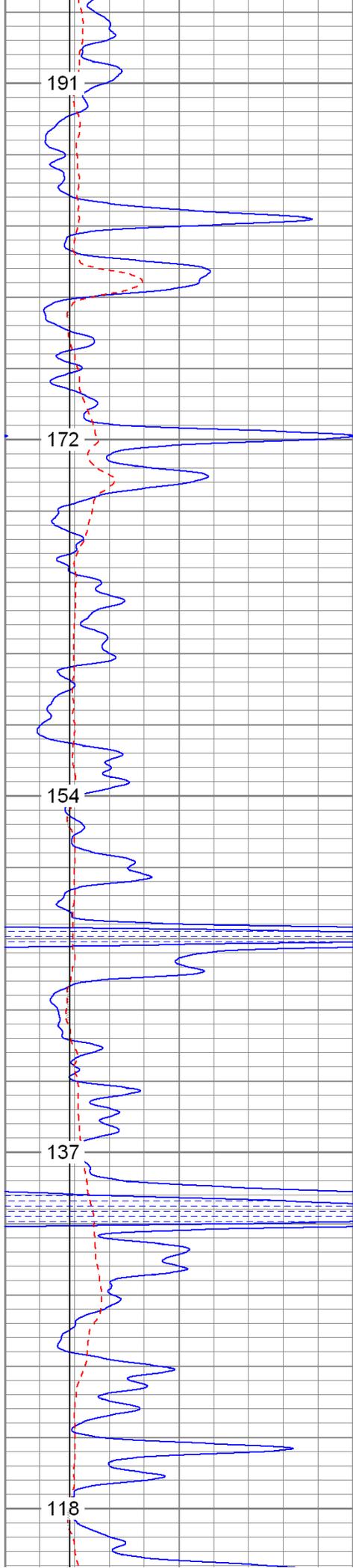
TBHV (ft3)

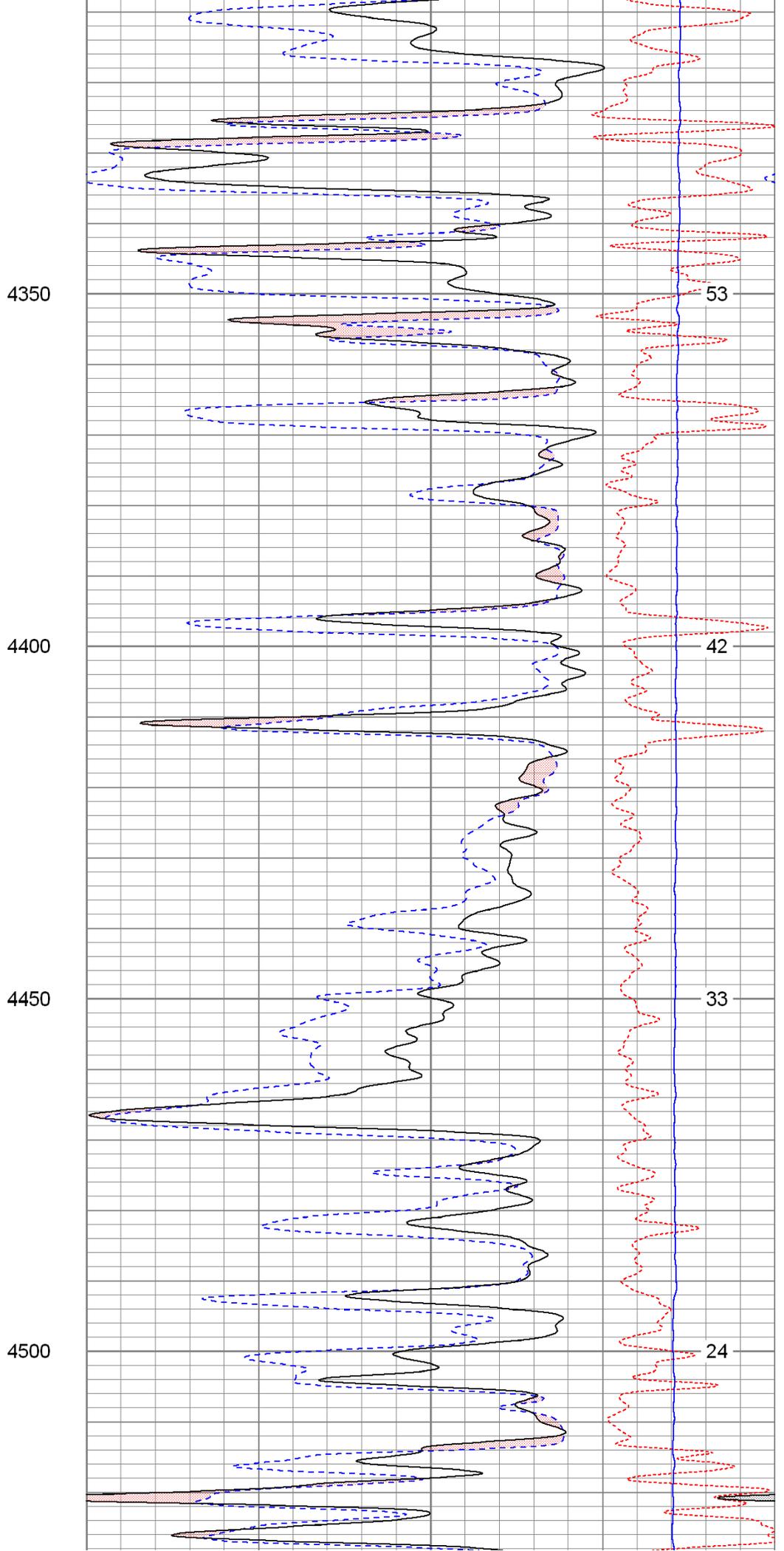
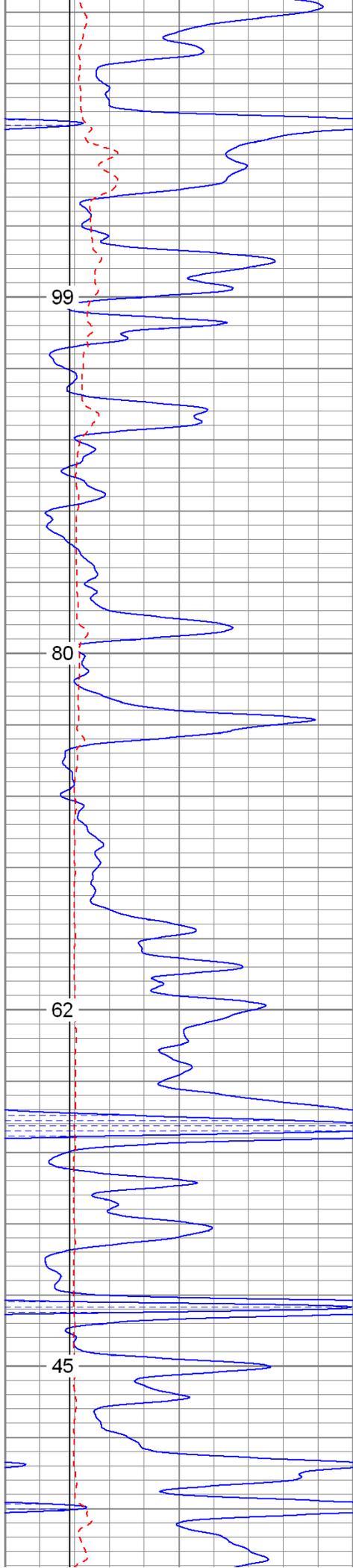
-0.25	RHOC (g/cc)	0.25
8000	LTEN (lb)	0

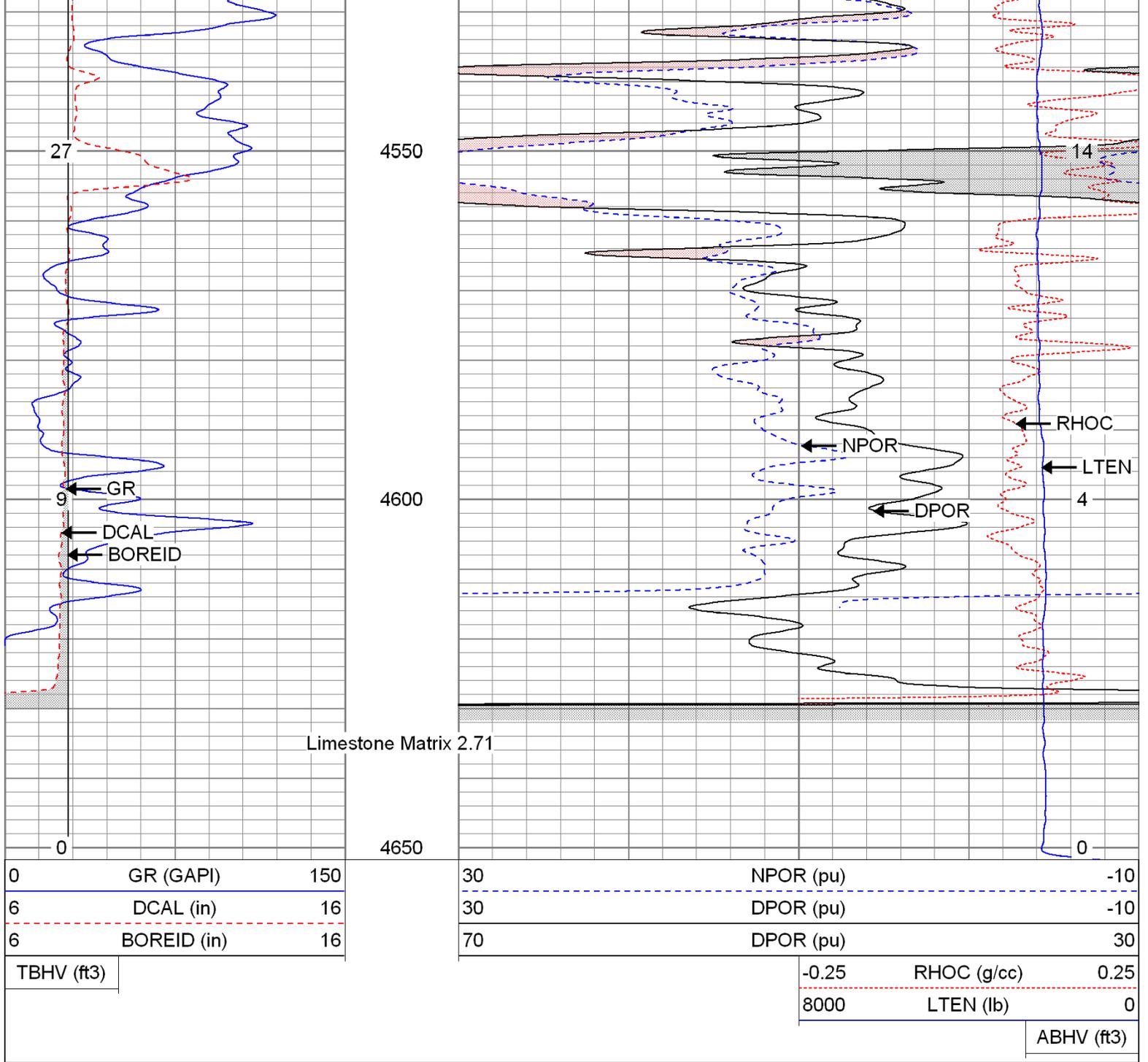
ABHV (ft3)







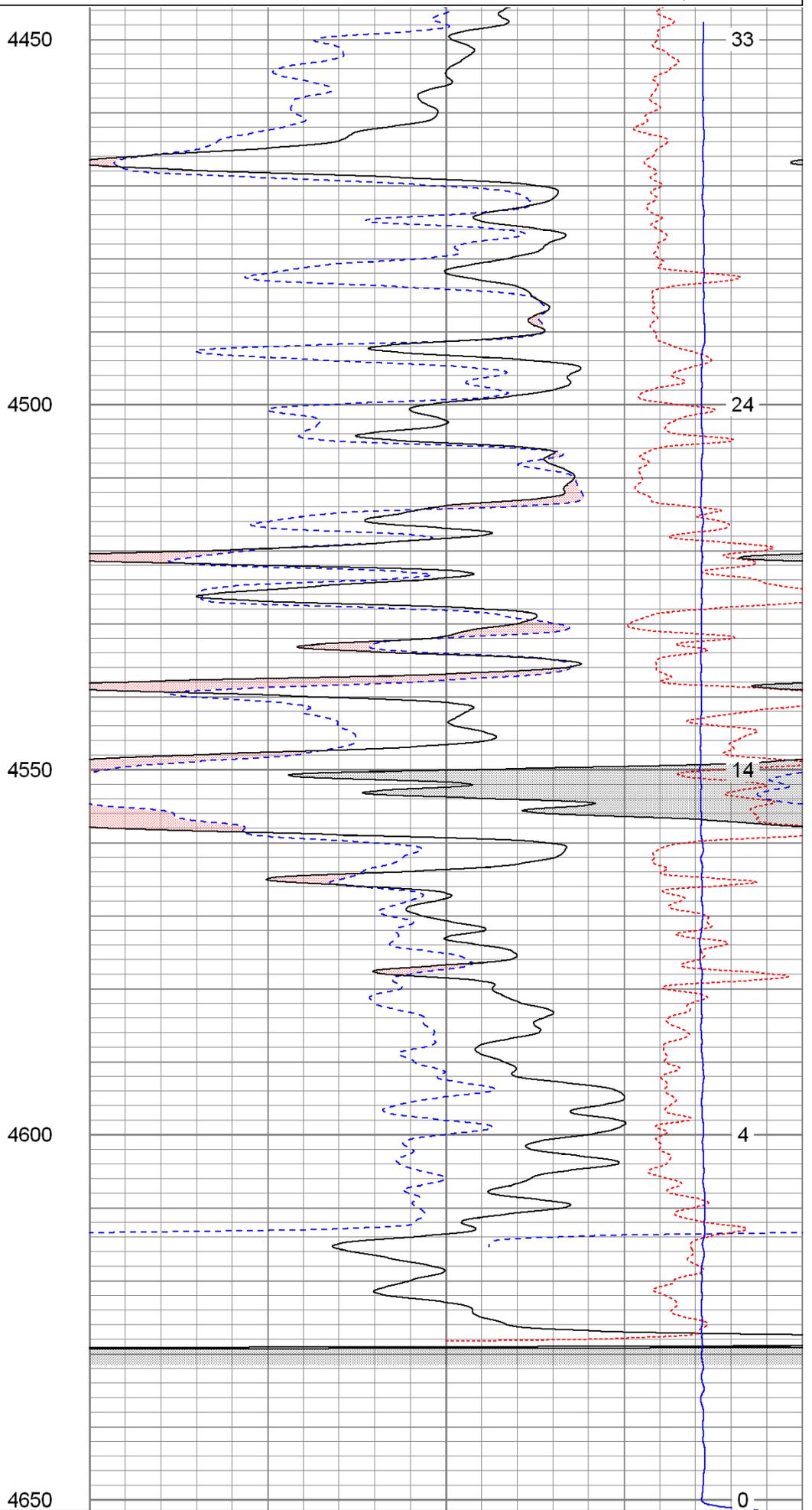
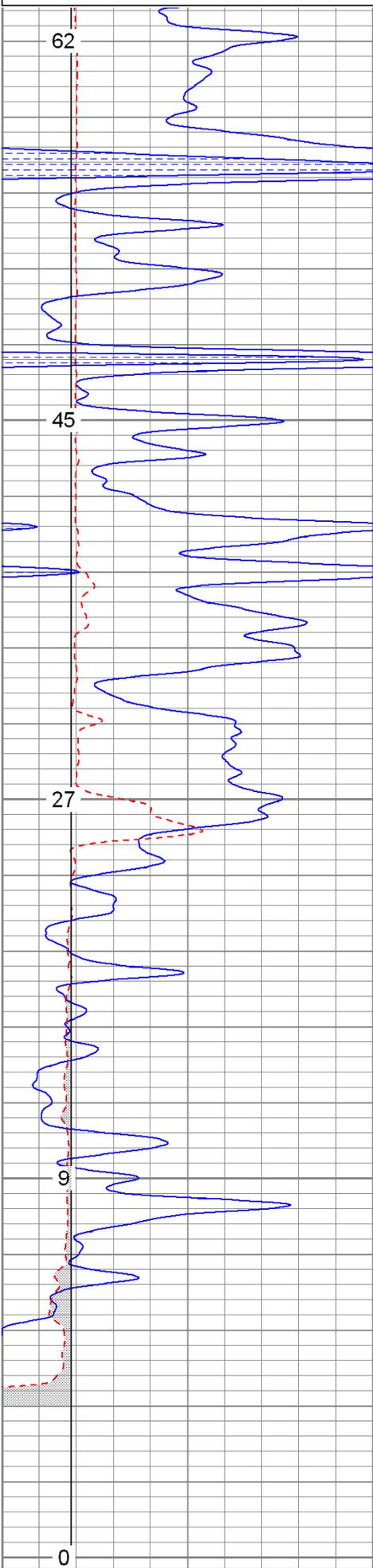




Repeat Pass

Database File: ppwhipple#1oh.db
 Dataset Pathname: pass1
 Presentation Format: kcdnl
 Dataset Creation: Sun Feb 03 02:16:33 2013 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)	



0	GR (GAPI)	150
6	DCAI (in)	16

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

DOAL (in)	16	DPOR (pu)	30
BOREID (in)	16	DPOR (pu)	30
TBHV (ft3)		-0.25	RHOC (g/cc) 0.25
		8000	LTEN (lb) 0
			ABHV (ft3)

Calibration Report

Database File: ppwhipple#1oh.db
 Dataset Pathname: pass1
 Dataset Creation: Sun Feb 03 02:16:33 2013 by Log Open-Cased 100827

Dual Induction Calibration Report

Serial-Model: 080522-Probe
 Surface Cal Performed: Sun Dec 02 13:33:30 2012
 Downhole Cal Performed: Sun Dec 02 13:35:39 2012
 After Survey Verification Performed: Sun Dec 02 13:35:39 2012

Surface Calibration

Loop:	Readings			References			Results	
	Air	Loop		Air	Loop		m	b
Deep	0.001	0.638	V	0.000	400.000	mmho/m	628.149	-0.909
Medium	0.003	0.735	V	0.000	464.000	mmho/m	634.133	-1.885
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.001	0.639	V	0.000	400.000	mmho/m	627.770	-0.927
Medium	0.003	0.735	V	0.000	464.000	mmho/m	634.038	-1.896

Downhole Calibration

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	-0.587	400.153	mmho/m	0.019	400.261	mmho/m	0.999	0.605
Medium	-0.685	463.926	mmho/m	0.012	464.081	mmho/m	0.999	0.696
LL3		7.259	V		750.000	Ohm-m		
		-0.000	V		12.000	Ohm-m		
		-7.420	V		3745.000	mmho-m		

Compensated Density Calibration Report

Serial-Model: 2388DHT-DHT
 Source / Verifier: /
 Master Calibration Performed: Mon Jan 07 17:00:17 2013

Master Calibration

	Density		Far Detector	Near Detector
		g/cc		
Magnesium	1.750	g/cc	717.11	305.57 cps
Aluminum	2.620	g/cc	140.63	205.93 cps
Spine Angle = 76.38			Density/Spine Ratio = 0.519	
	Size		Reading	
Small Ring	8.25	in	5771.32	
Large Ring	14.00	in	10165.20	

Gamma Ray Calibration Report

Serial Number: 2000

Tool Model: P2000
 Performed: Wed Jan 23 07:42:55 2013
 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: Mon Jan 07 17:00:44 2013
 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-Probe (080522) Probe Dual Induction	21.47	4.00	345.00
SP	10.60						
CILM	6.89						
RLL3	1.70						
		Dataset:	ppwhipple#1oh.db: field/well/run1/pass1				
		Total Length:	40.49 ft				
		Total Weight:	676.00 lb				
		O.D.	4.00 in				