

COMPENSATED DENSITY LOG

Company	Berexco LLC	Location:	API # : 15-065-23699	Other Services
Well	Benson 9		1670' FSL & 1400' FWL	RG
Field	Morel		SEC 15 TWP 9S RGE 21W	ML
County	Graham			
State	Kansas			
Permanent Datum	Ground Level	Elevation	2236'	Elevation
Log Measured From	KB 11' AGL			K.B. 2247'
Drilling Measured From	KB			D.F. 2246'
				G.L. 2236'
Date	9-10-10			
Run Number	One			
Depth Driller	3845'			
Depth Logger	3877'			
Bottom Logged Interval	3851'			
Top Log Interval	Surface Casing			
Casing Driller	283'			
Casing Logger	278'			
Bit Size	7 7/8"			
Type Fluid in Hole	Chemical			
Density / Viscosity	9.0 lb/lug			
pH / Fluid Loss	///			
Source of Sample	Pit			
Rm @ Meas. Temp	2.9@76degf			
Rmf @ Meas. Temp	2.32@76degf			
Rmc @ Meas. Temp	4.64@76degf			
Source of Rmf / Rmc	Calculated			
Rm @ BHT	2.16@96degf			
Time Circulation Stopped	2:00 a.m.			
Time Logger on Bottom	7:00 a.m.			
Maximum Recorded Temperature	102 deg.f			
Equipment Number	T045			
Location	Hays, KS			
Recorded By	L. Smith			
Witnessed By	Mr. Bryan Bynog			

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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.

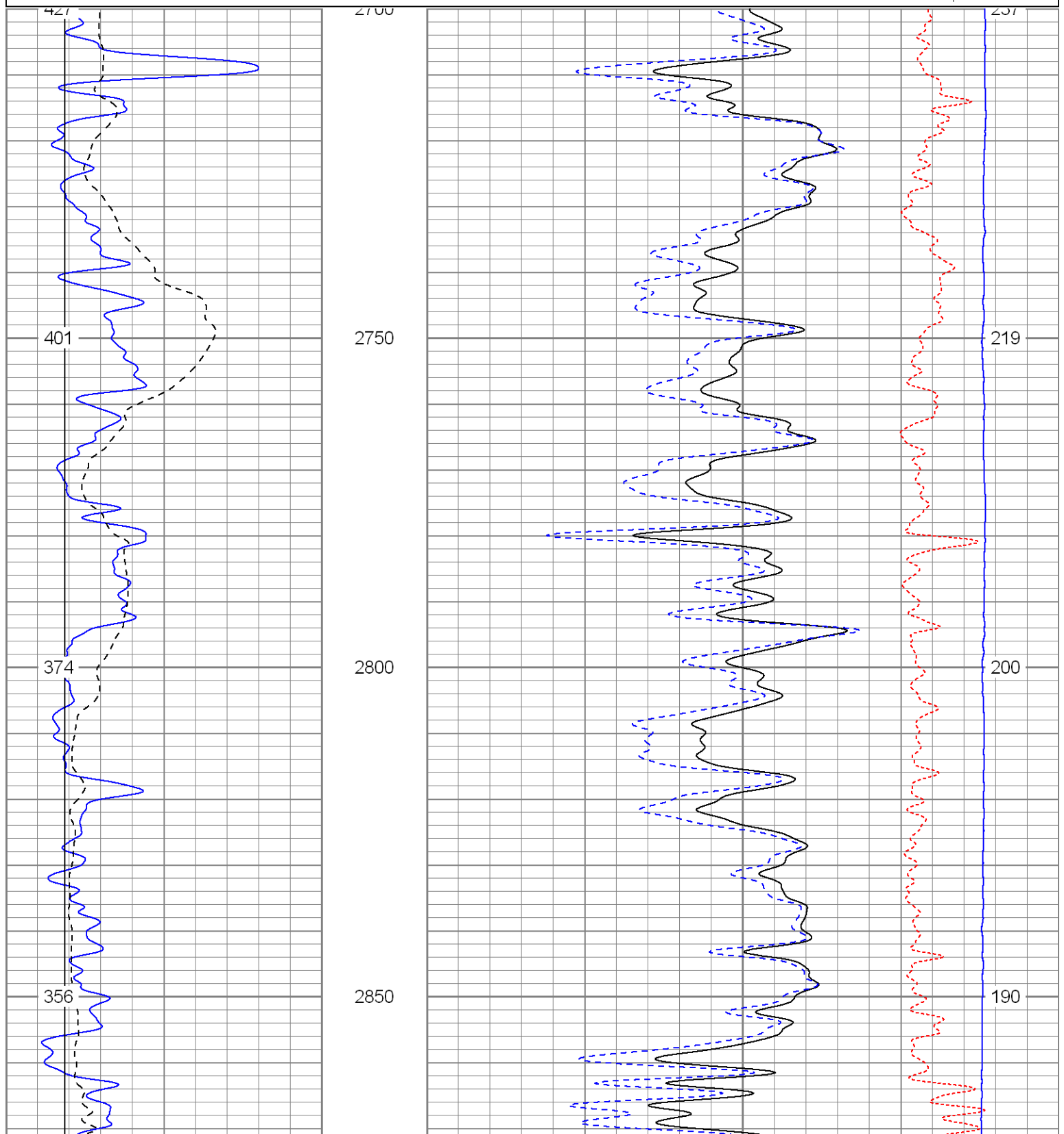
Comments

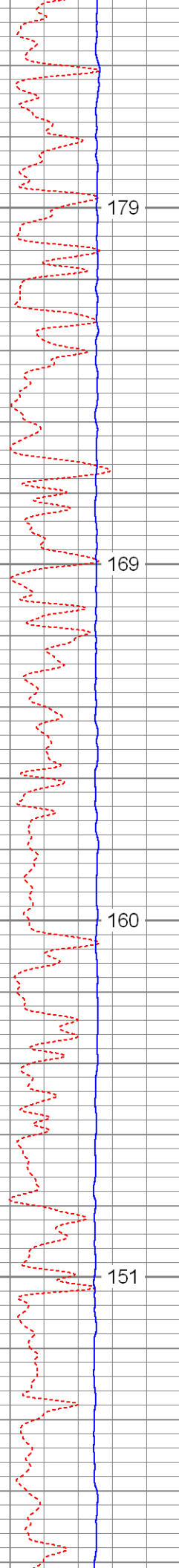
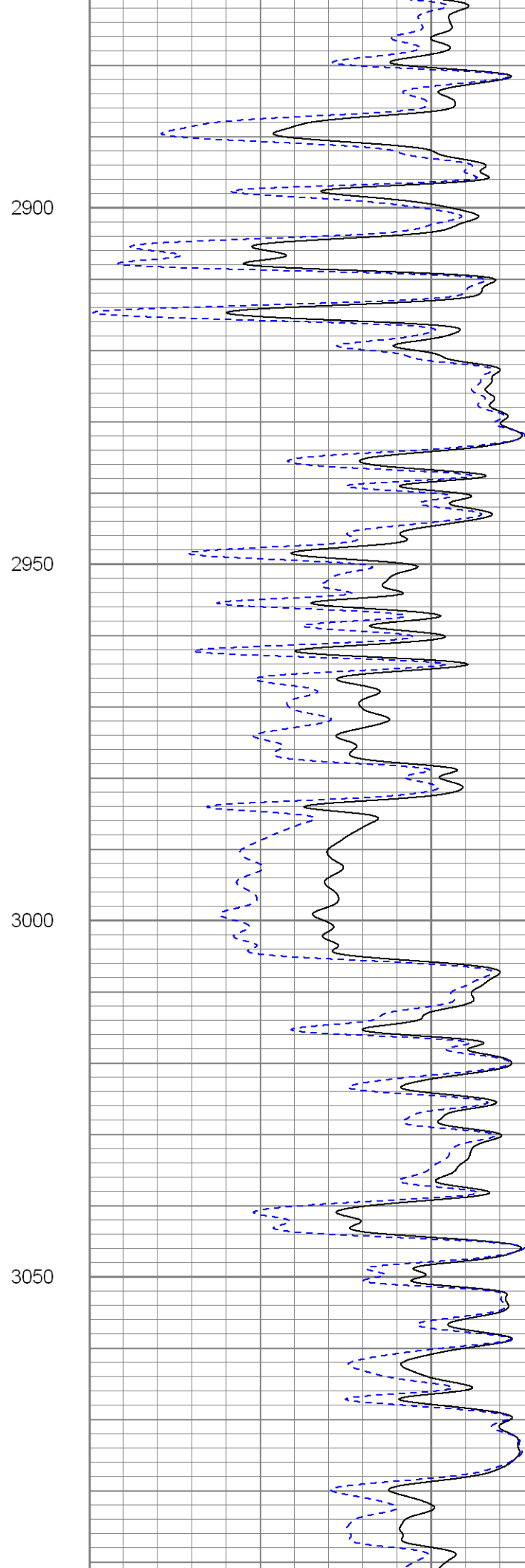
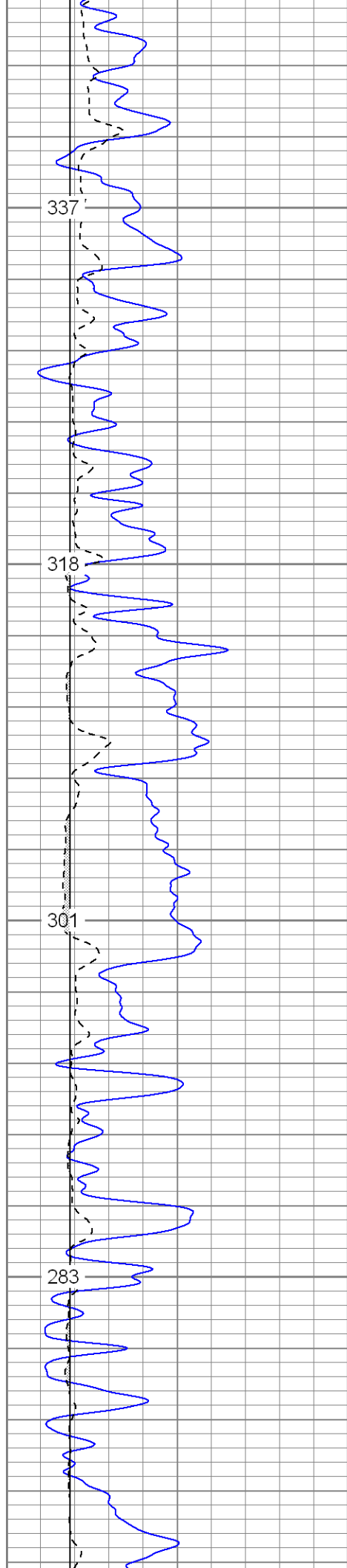
Palco South on Ellis Blacktop, West on Redline, North on 370th, right on J road to location.

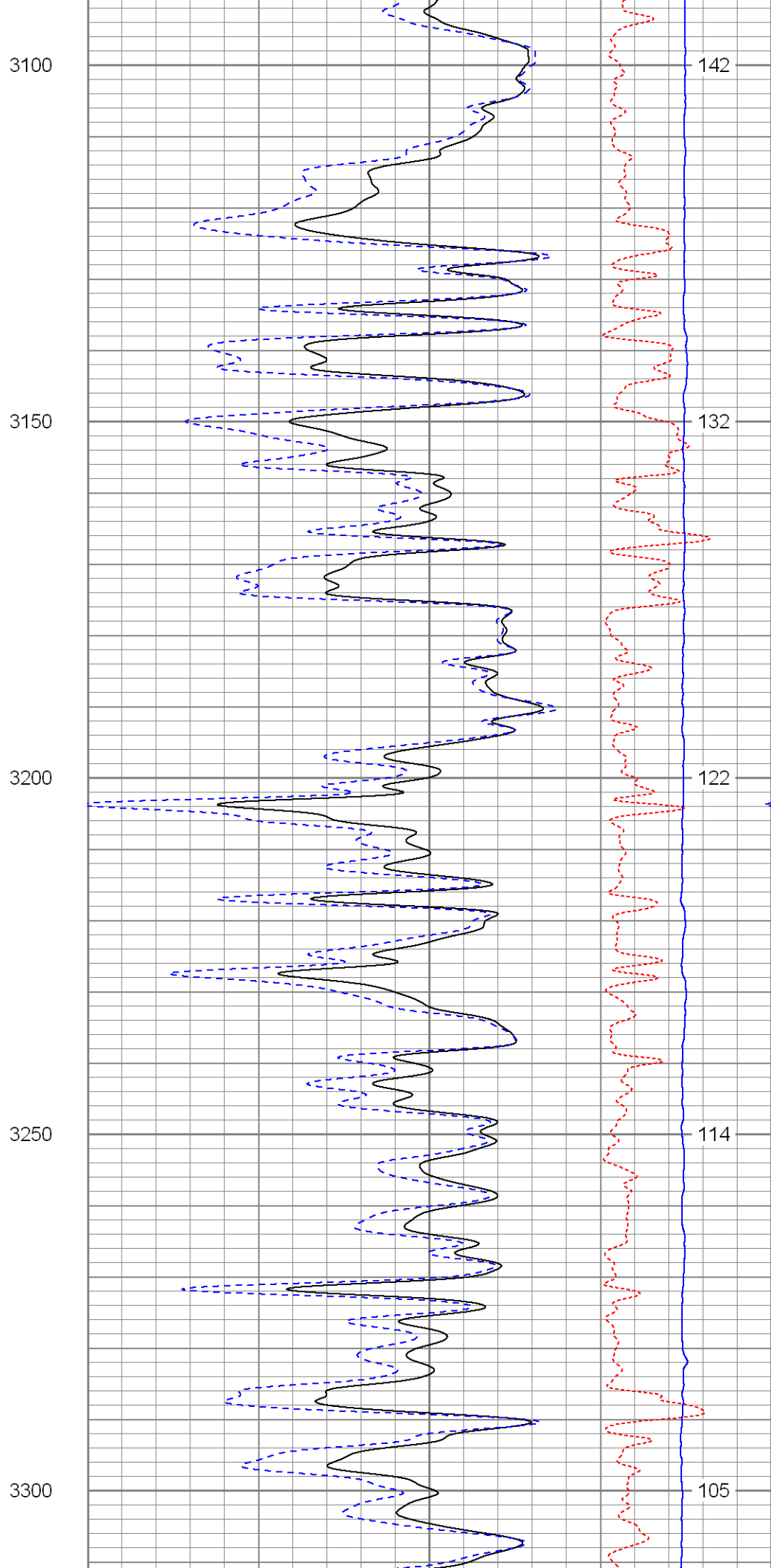
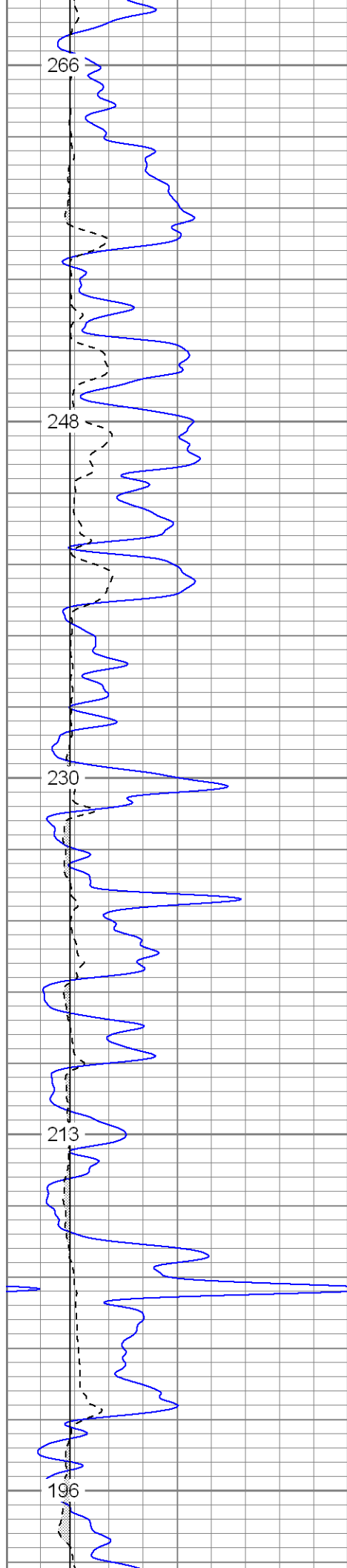
Thanks for using The Perforators,Hays, KS. 785-621-4604

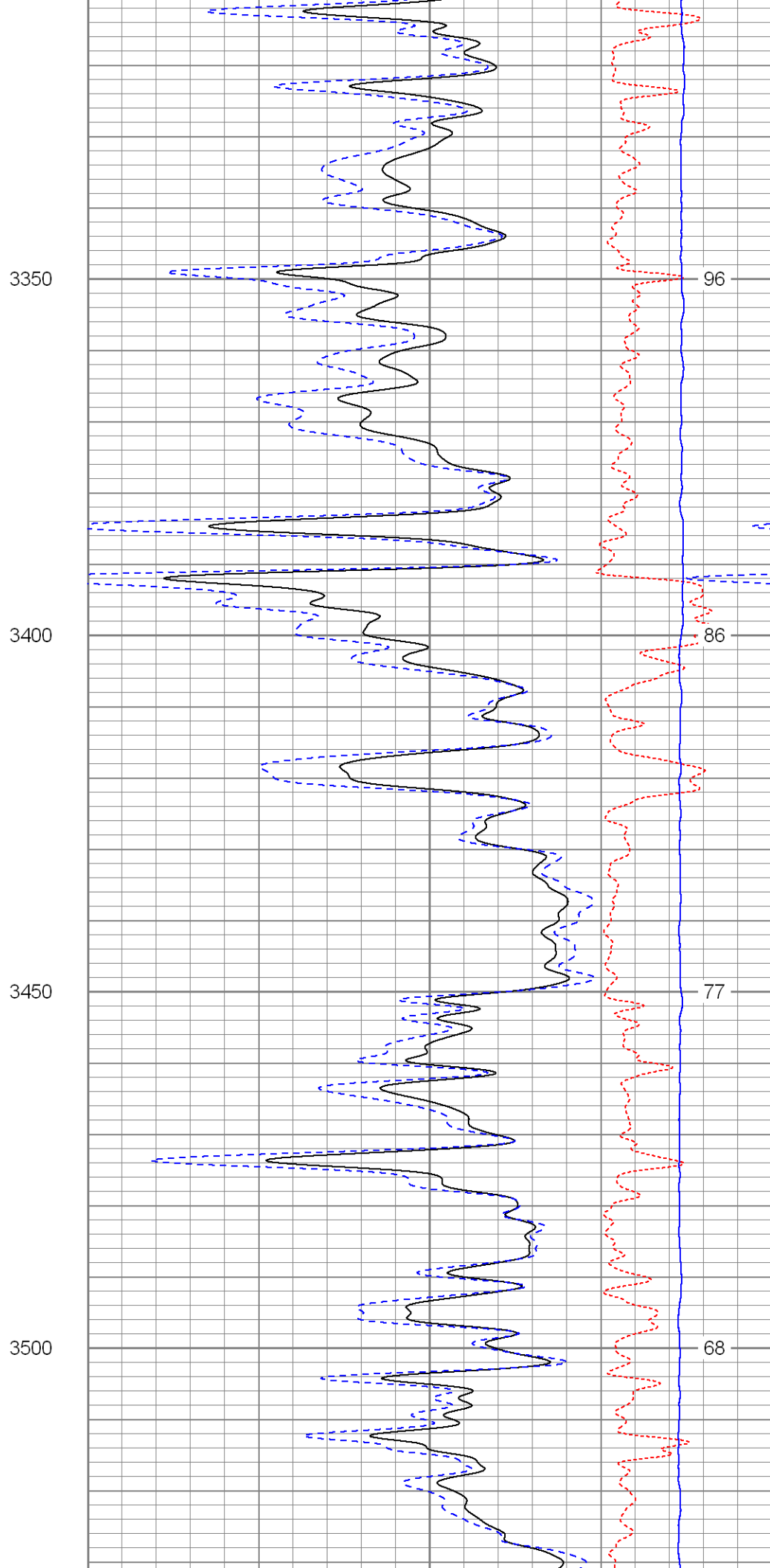
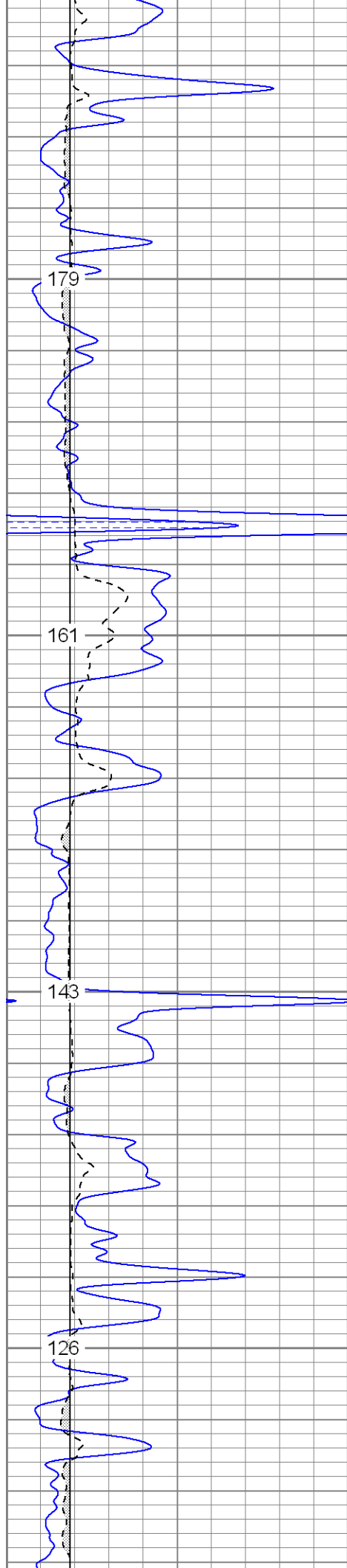
Database File: berexcobenson9.db
Dataset Pathname: pass3.1
Presentation Format: kcdl
Dataset Creation: Thu Sep 09 08:26:54 2010 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

0	GR (GAPI)	200	2	RHOB (g/cc)		3
6	DCAL (in)	16	1	RHOB (g/cc)		2
6	BOREID (in)	16	30	DPOR (pu)		-10
TBHV (ft3)				-0.5	RHOC (g/cc)	0.5
				7000	LTEN (lb)	0
						ABHV (ft3)











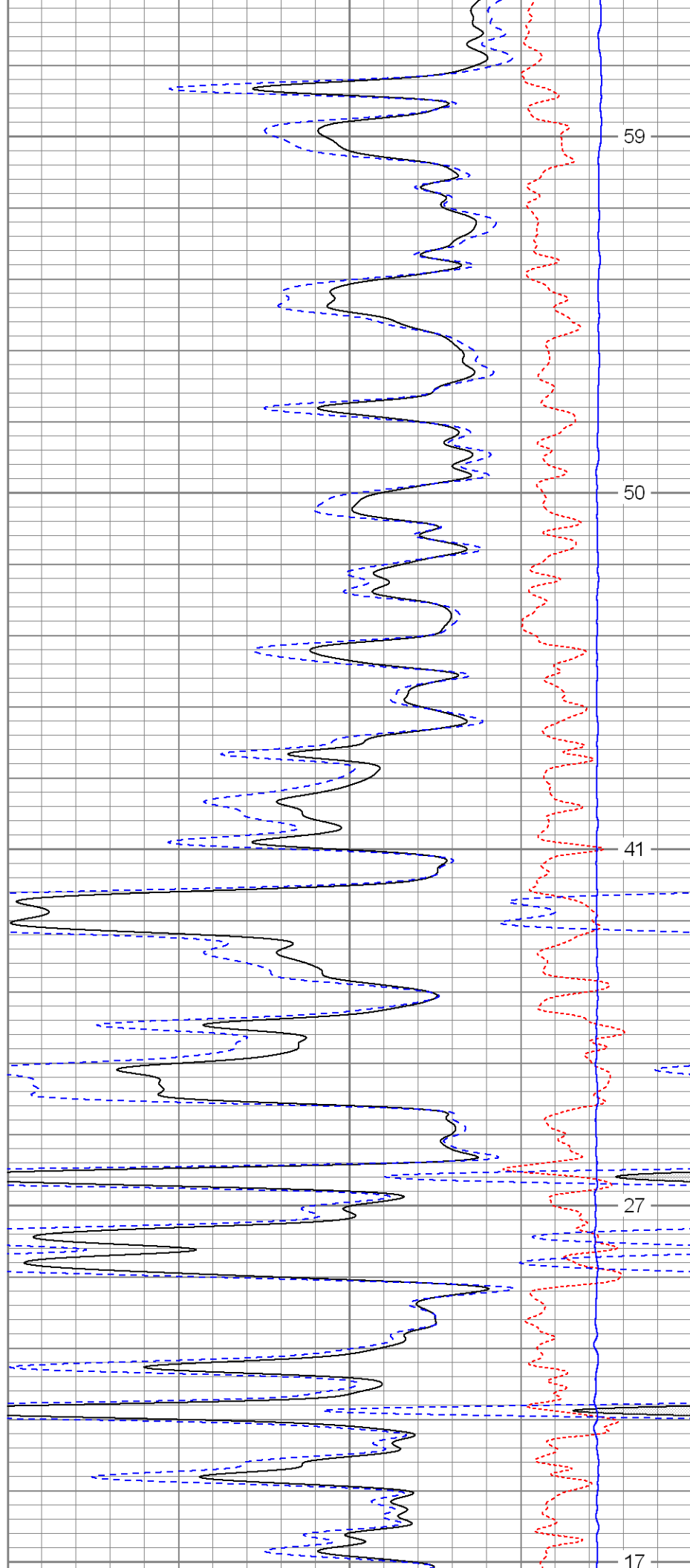
3550

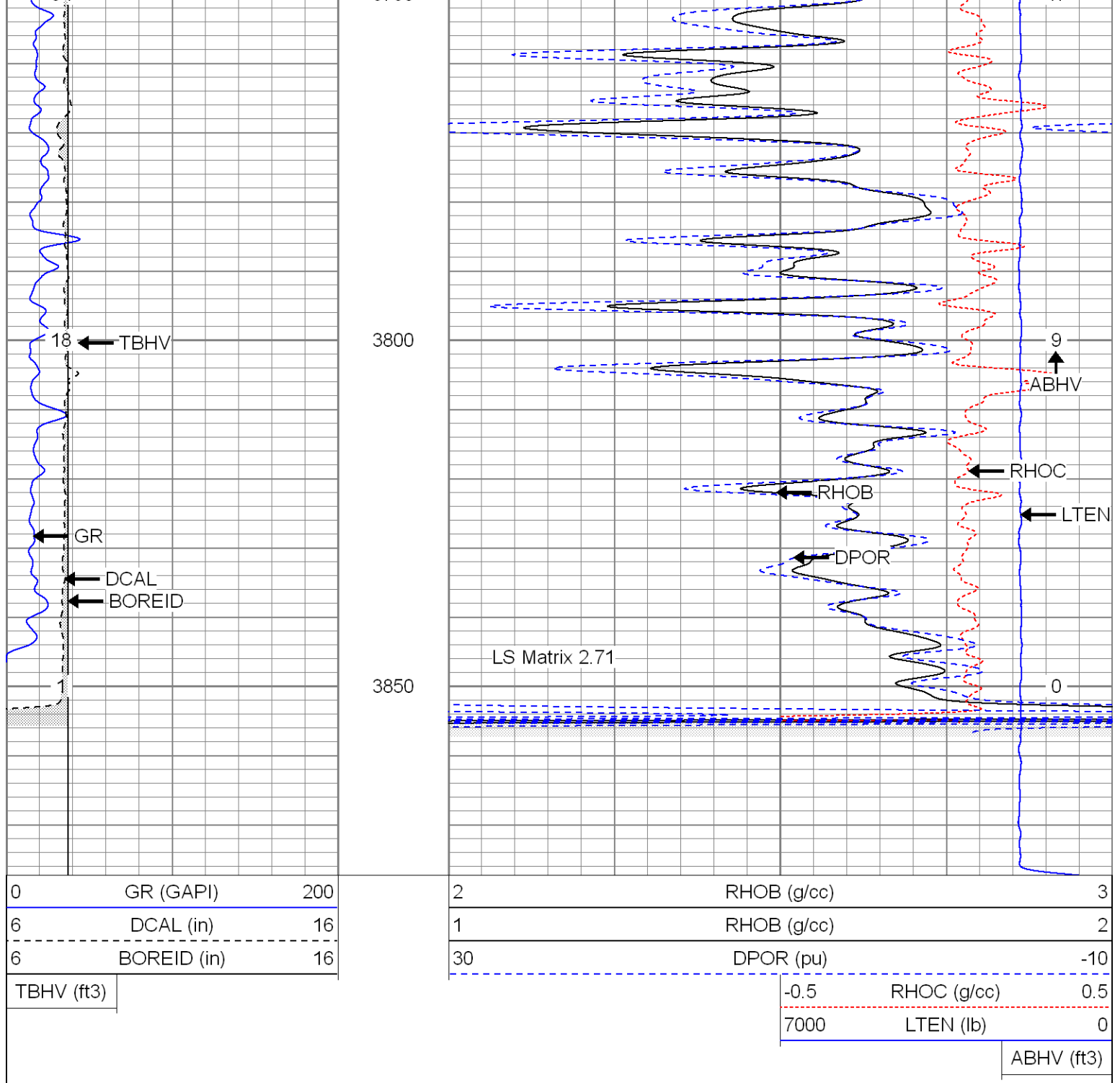
3600

3650

3700

3750





Repeat Section

Database File: berexcobenson9.db
 Dataset Pathname: pass1.1
 Presentation Format: kcdl
 Dataset Creation: Thu Sep 09 07:47:26 2010 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240

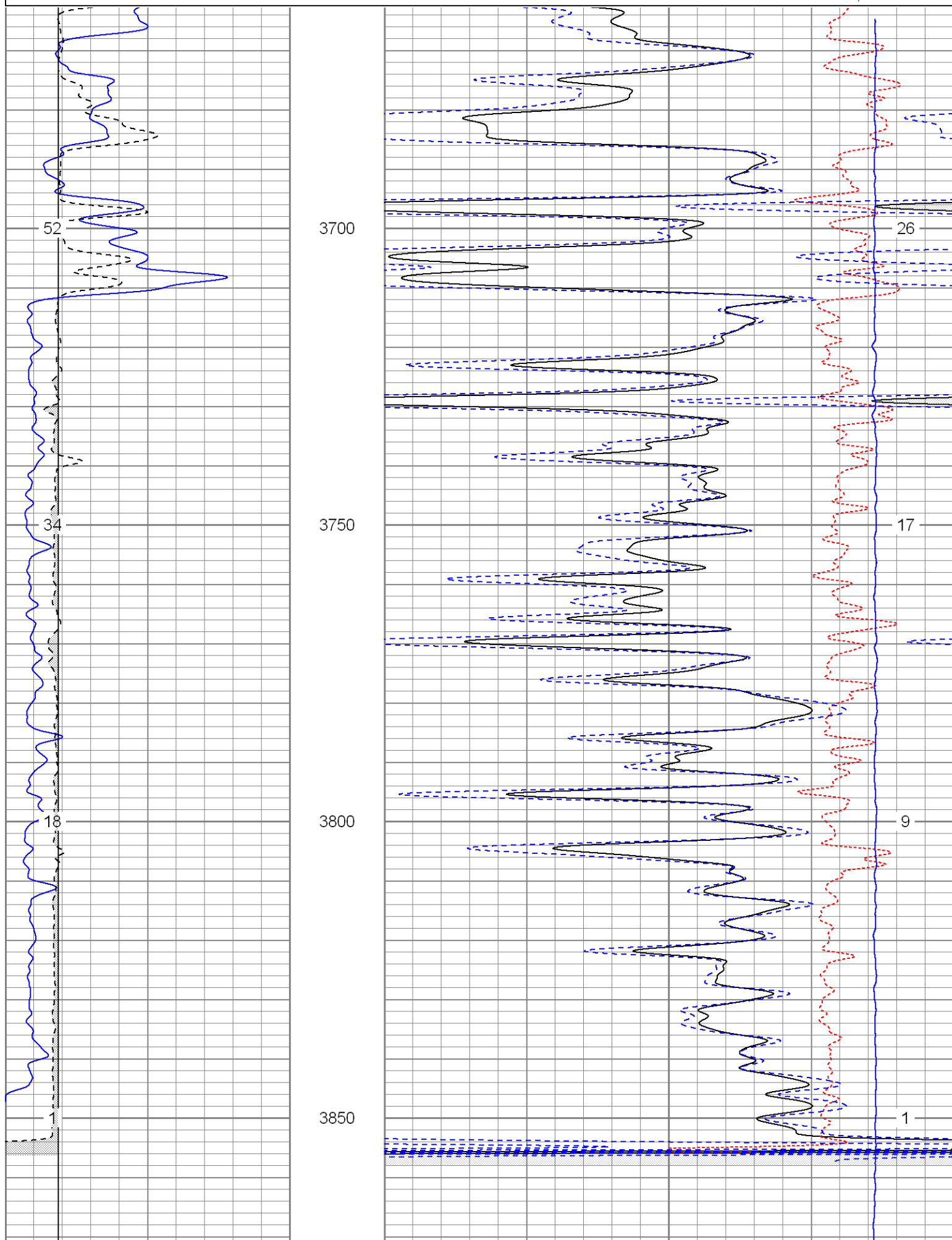
0	GR (GAPI)	200	2	RHOB (g/cc)	3
6	DCAL (in)	16	1	RHOB (g/cc)	2
6	BOREID (in)	16	30	DPOR (pu)	-10
TBHV (ft3)			-0.5 RHOC (g/cc) 0.5		
			7000 LTEN (lb) 0		
			ABHV (ft3)		

7000

LTEN (lb)

0

ABHV (ft3)



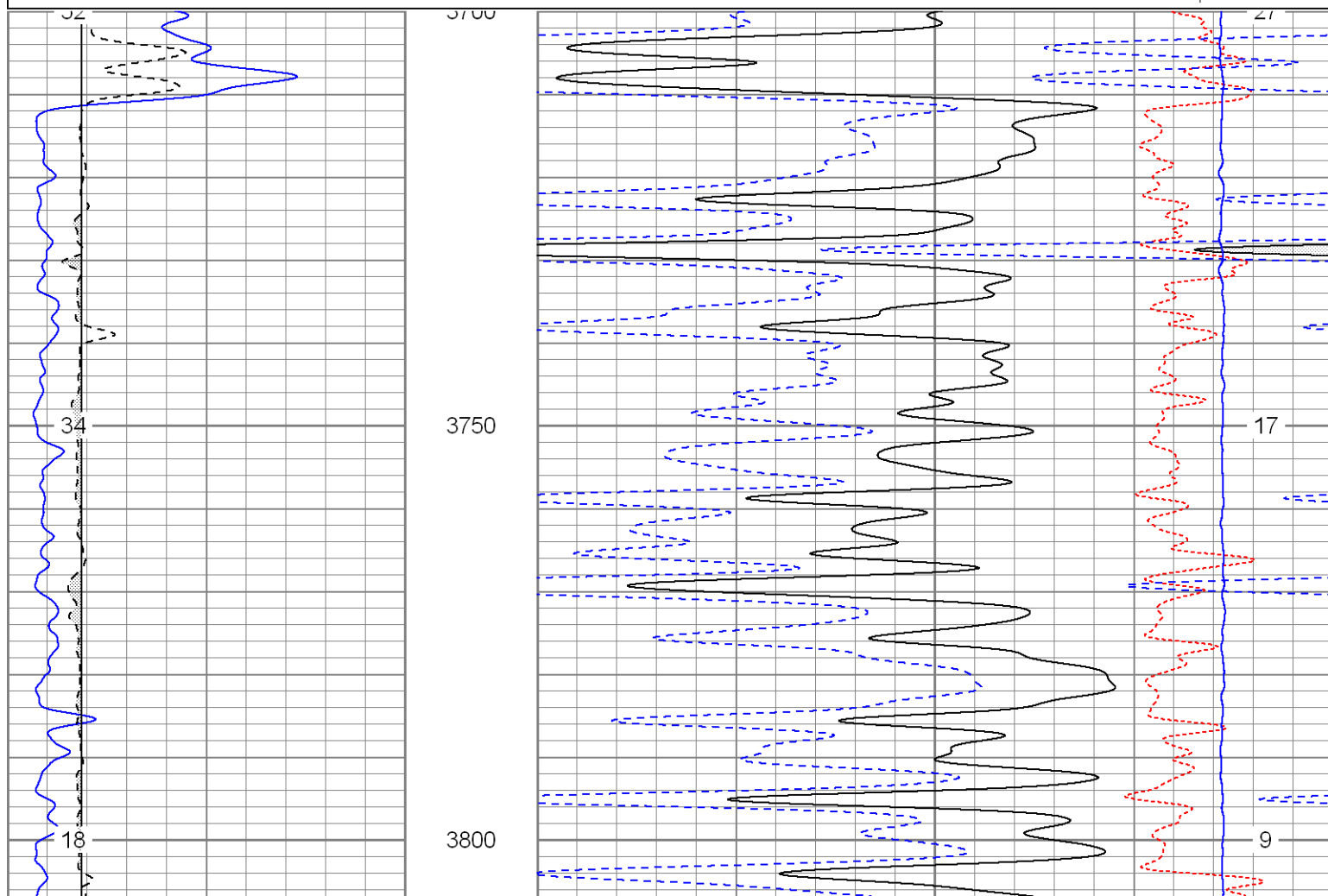
0	GR (GAPI)	200	2	RHOB (g/cc)	3
6	DCAL (in)	16	1	RHOB (g/cc)	2
6	BOREID (in)	16	30	DPOR (pu)	-10
TBHV (ft3)			-0.5	RHOC (g/cc)	0.5
			7000	LTEN (lb)	0
				ABHV (ft3)	

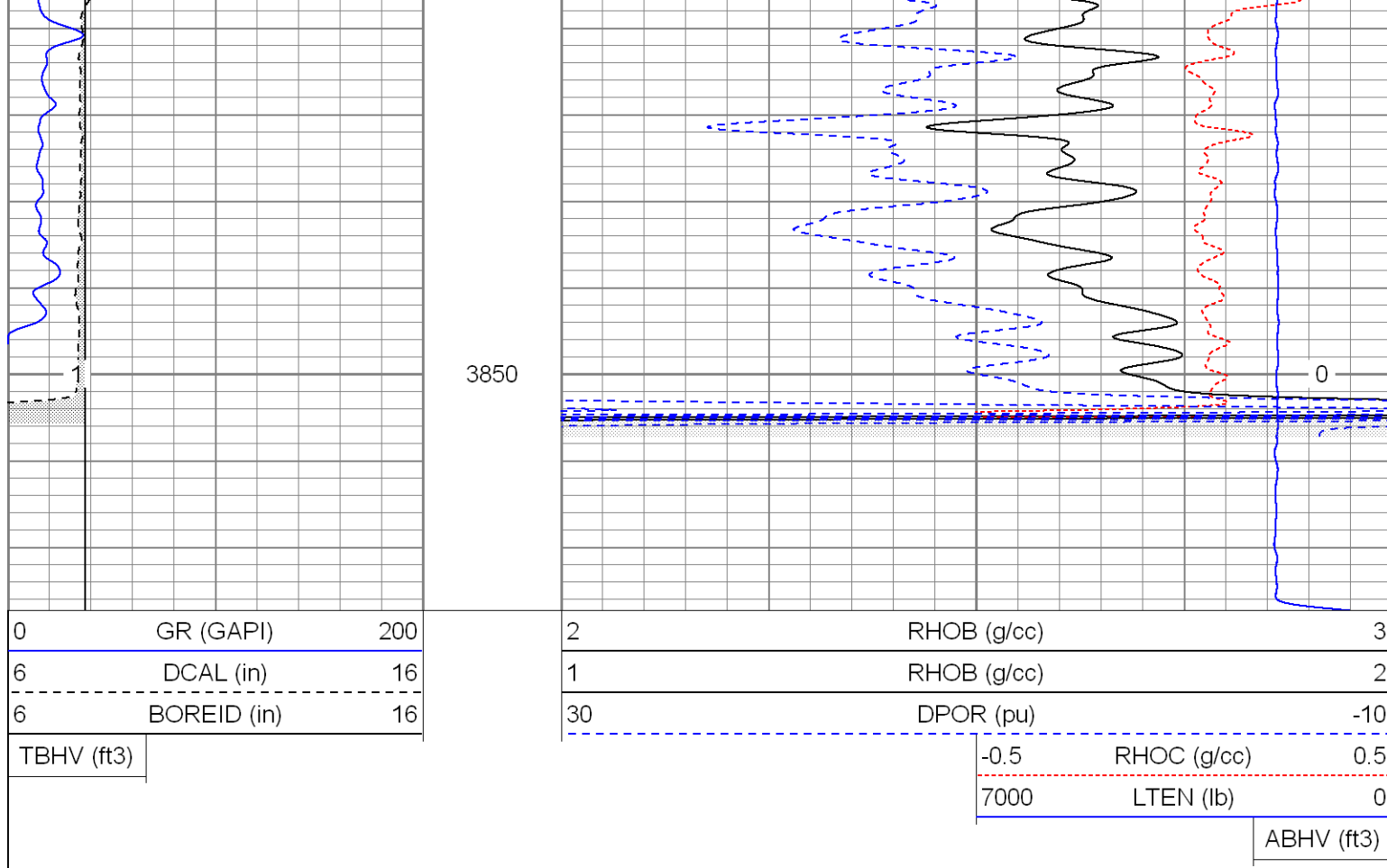


Dolomite Matrix 2.87

Database File: berexcobenson9.db
Dataset Pathname: pass3.2
Presentation Format: kcdl
Dataset Creation: Thu Sep 09 10:05:33 2010 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

0	GR (GAPI)	200	2	RHOB (g/cc)	3
6	DCAL (in)	16	1	RHOB (g/cc)	2
6	BOREID (in)	16	30	DPOR (pu)	-10
TBHV (ft3)			-0.5	RHOC (g/cc)	0.5
			7000	LTEN (lb)	0
				ABHV (ft3)	





Calibration Report

Database File: berexcobenson9.db
Dataset Pathname: pass1
Dataset Creation: Thu Sep 09 06:48:34 2010 by Log Open-Cased 090629

Dual Induction Calibration Report

Serial-Model: 080522-Probe
Surface Cal Performed: Tue Sep 07 08:38:33 2010
Downhole Cal Performed: Tue Sep 07 08:39:03 2010
After Survey Verification Performed: Sat Jul 10 19:03:34 2010

Surface Calibration

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.000	0.639	V	0.000	400.000	mmho/m	626.809	-0.302
Medium	0.002	0.740	V	0.000	464.000	mmho/m	628.352	-1.181
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.000	0.640	V	0.000	400.000	mmho/m	625.708	-0.145
Medium	0.001	0.741	V	0.000	464.000	mmho/m	627.289	-0.877

Downhole Calibration

Readings				References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.218	400.849	mmho/m	-0.157	400.547	mmho/m	1.000	-0.375
Medium	0.077	464.541	mmho/m	-0.303	464.483	mmho/m	1.001	-0.380
LL3		7.321	V		750.000	Ohm-m		
		0.002	V		12.000	Ohm-m		
		-7.308	V		3745.000	mmho-m		

Compensated Density Calibration Report					
Serial-Model:			2501DHT-DHT		
Source / Verifier:			/		
Master Calibration Performed:			Thu Sep 02 16:37:06 2010		
Master Calibration					
	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	765.56	301.40	cps
Aluminum	2.590	g/cc	172.00	211.00	cps
	Spine Angle = 76.57		Density/Spine Ratio = 0.573		
	Size		Reading		
Small Ring	7.70	in	6196.63		
Large Ring	14.00	in	10494.70		

Gamma Ray Calibration Report		
Serial Number:	2000	
Tool Model:	P2000	
Performed:	Tue Sep 07 08:37:43 2010	
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:	Mon Sep 06 13:37:25 2010	
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 (2501DHT) Digital High Temp CDL Tool	9.69	4.00	201.00

