

**COMPENSATED DENSITY
NEUTRON
LOG**

Company	Mikol Oil LLC	Location:	API # : 15 163 23938	Other Services
Well	Marston #1A-27	Permanent Datum	515' FNL & 568' FEL	DIL
Field	Unnamed	Log Measured From	KB 8' AGL	ML
County	Rooks	Drilling Measured From	KB	Elevation
State	Kansas			K.B. 2073'
				D.F. 2072'
				G.L. 2065'
Date	4-5-11			
Run Number	One			
Depth Driller	3725'			
Depth Logger	3725'			
Bottom Logged Interval	3699'			
Top Log Interval	2900'			
Casing Driller	223'			
Casing Logger	223'			
Bit Size	7 7/8"			
Type Fluid in Hole	Chemical			
Density / Viscosity	9.2/52			
pH / Fluid Loss	9.0/8.8			
Source of Sample	Pit			
Rm @ Meas. Temp	1.4@70degf			
Rmf @ Meas. Temp	1.12@70degf			
Rmc @ Meas. Temp	2.31@70degf			
Source of Rmf / Rmc	Calculated			
Rm @ BHT	.88@112degf			
Time Circulation Stopped	7:30 p.m.			
Time Logger on Bottom	9:45 p.m.			
Maximum Recorded Temperature	112degf			
Equipment Number	T045			
Location	Hays, KS			
Recorded By	L. Smith			
Witnessed By	Mr. Ed Glassman			

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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.

183 N, E on BB road to T, S to location.

Thanks for using The Perforators LLC
785-621-4604

Database File: marston#1a-27.db
Dataset Pathname: pass2
Presentation Format: kcdnl
Dataset Creation: Tue Apr 05 23:00:30 2011 by Log Open-Cased 100827
Charted by: Depth in Feet scaled 1:240

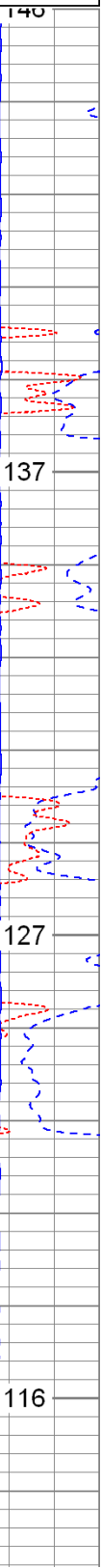
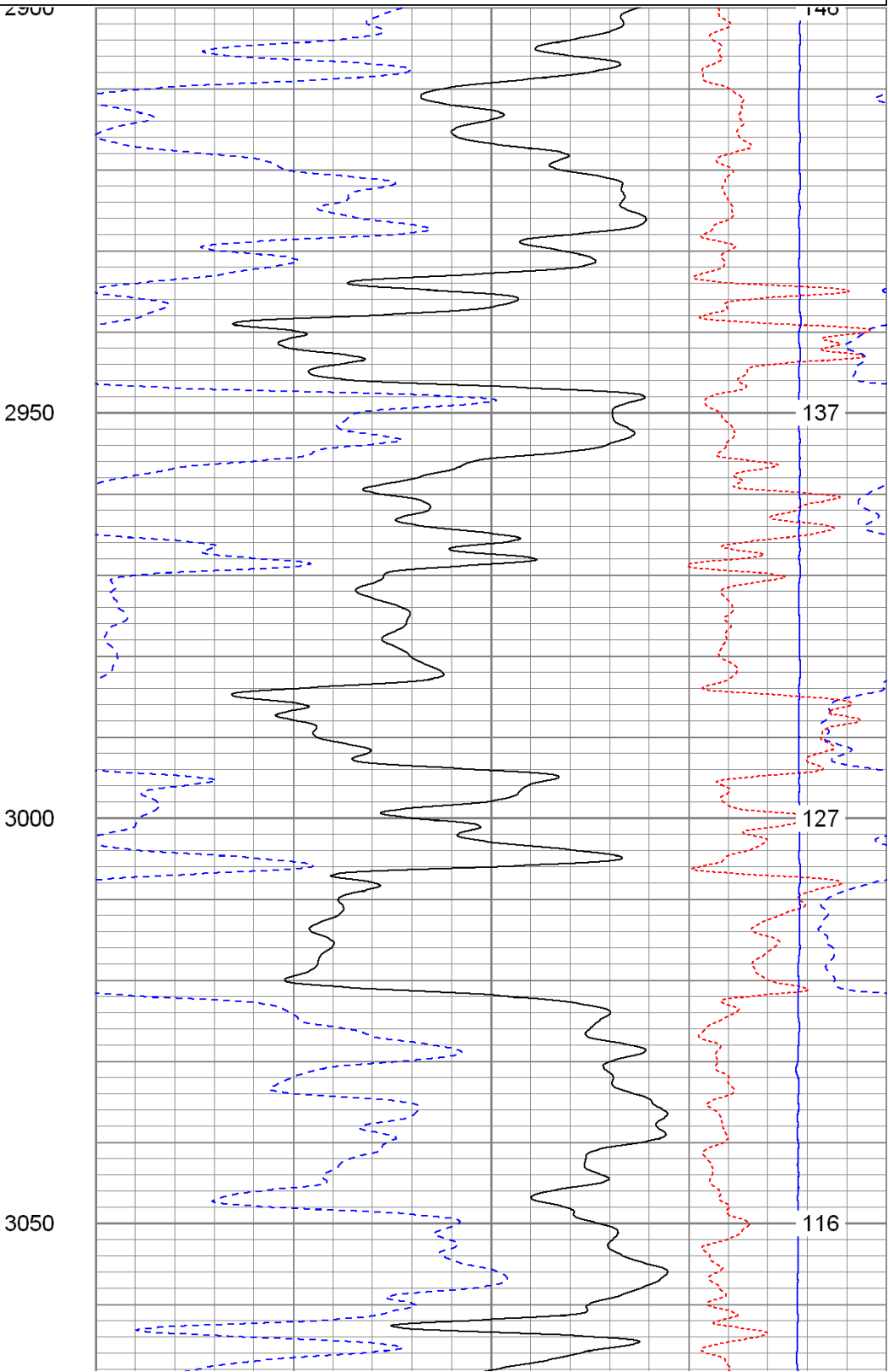
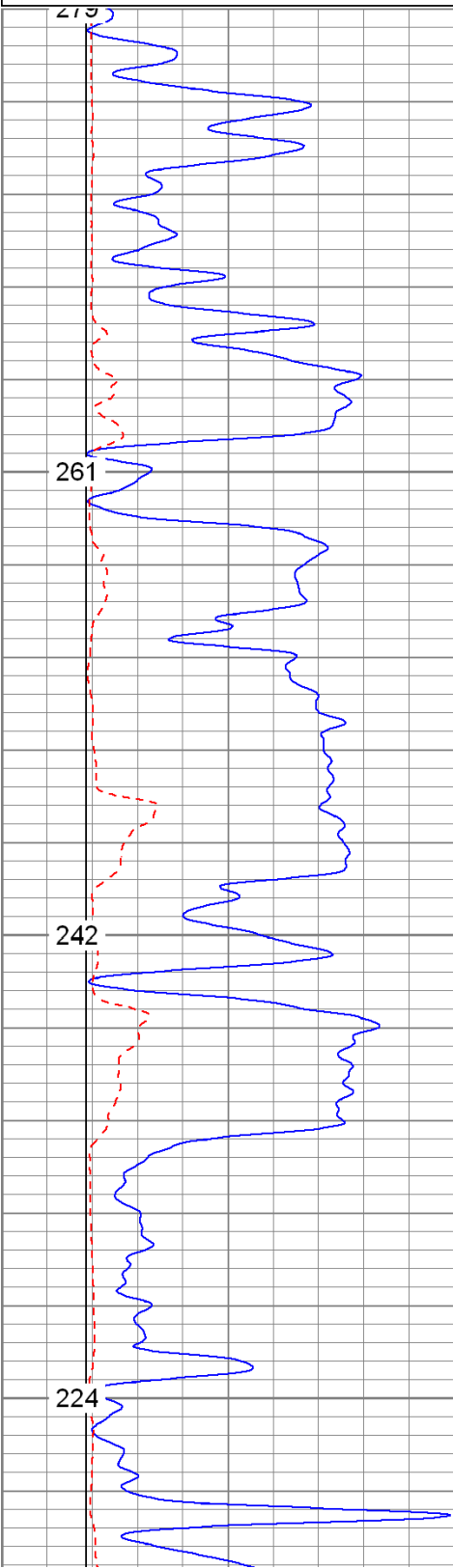
0	GR (GAPI)	150
6	DCAL (in)	16
6	BOREID (in)	16

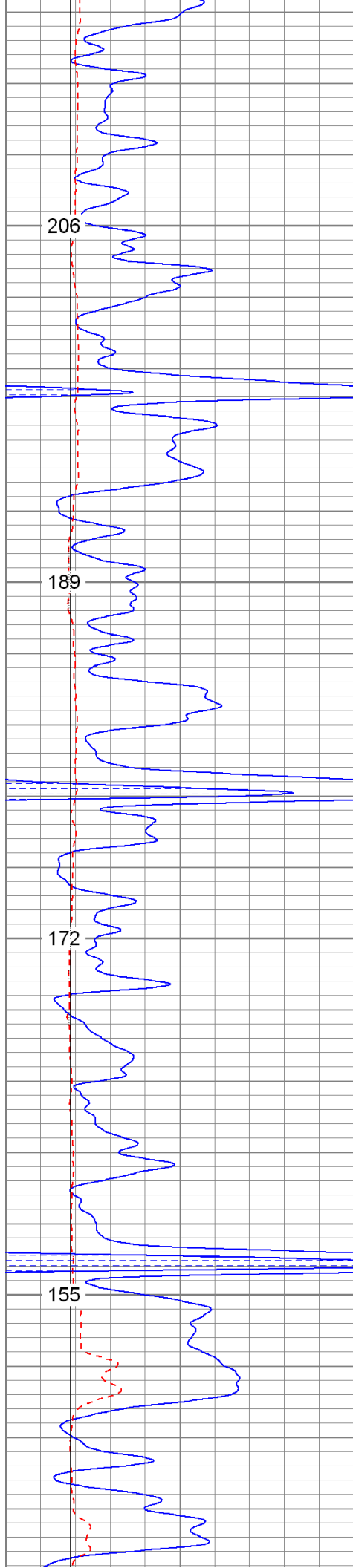
TBHV (ft3)

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)



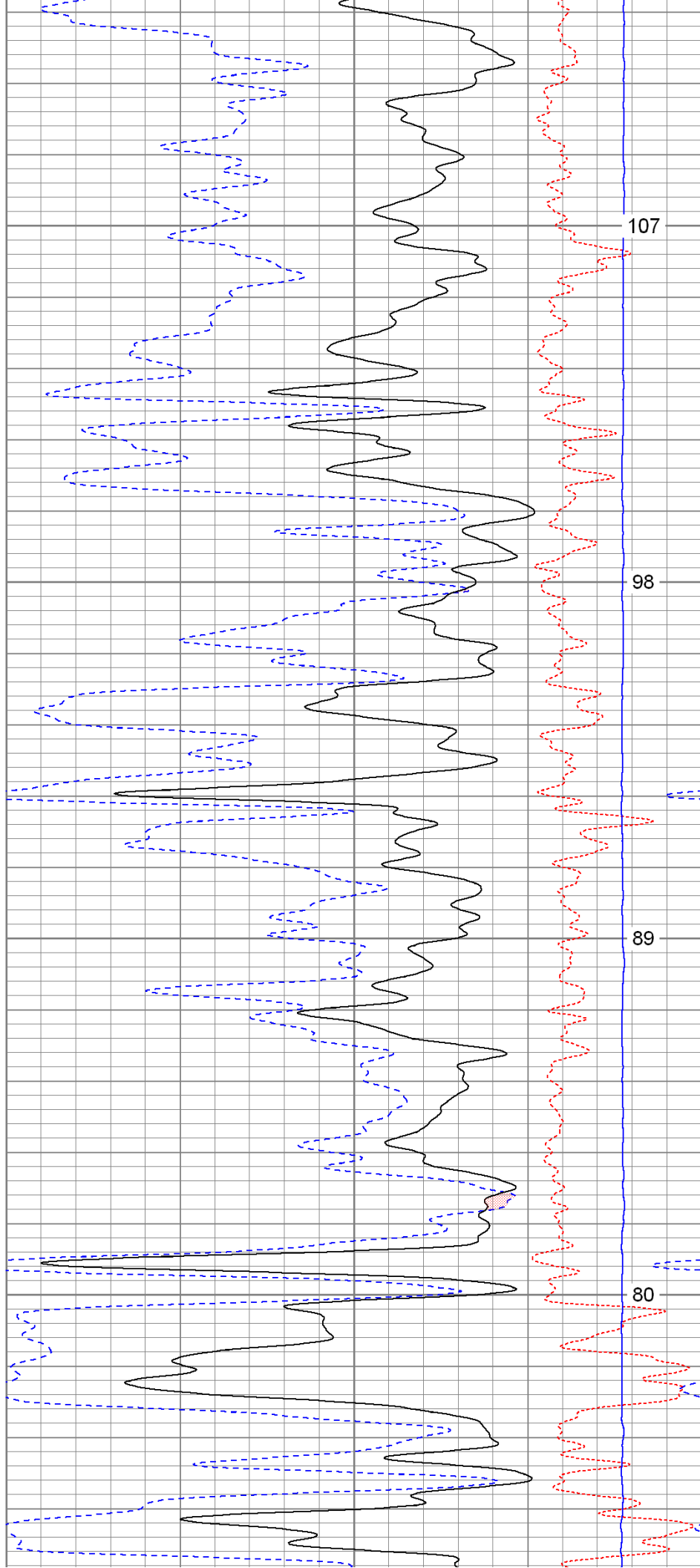


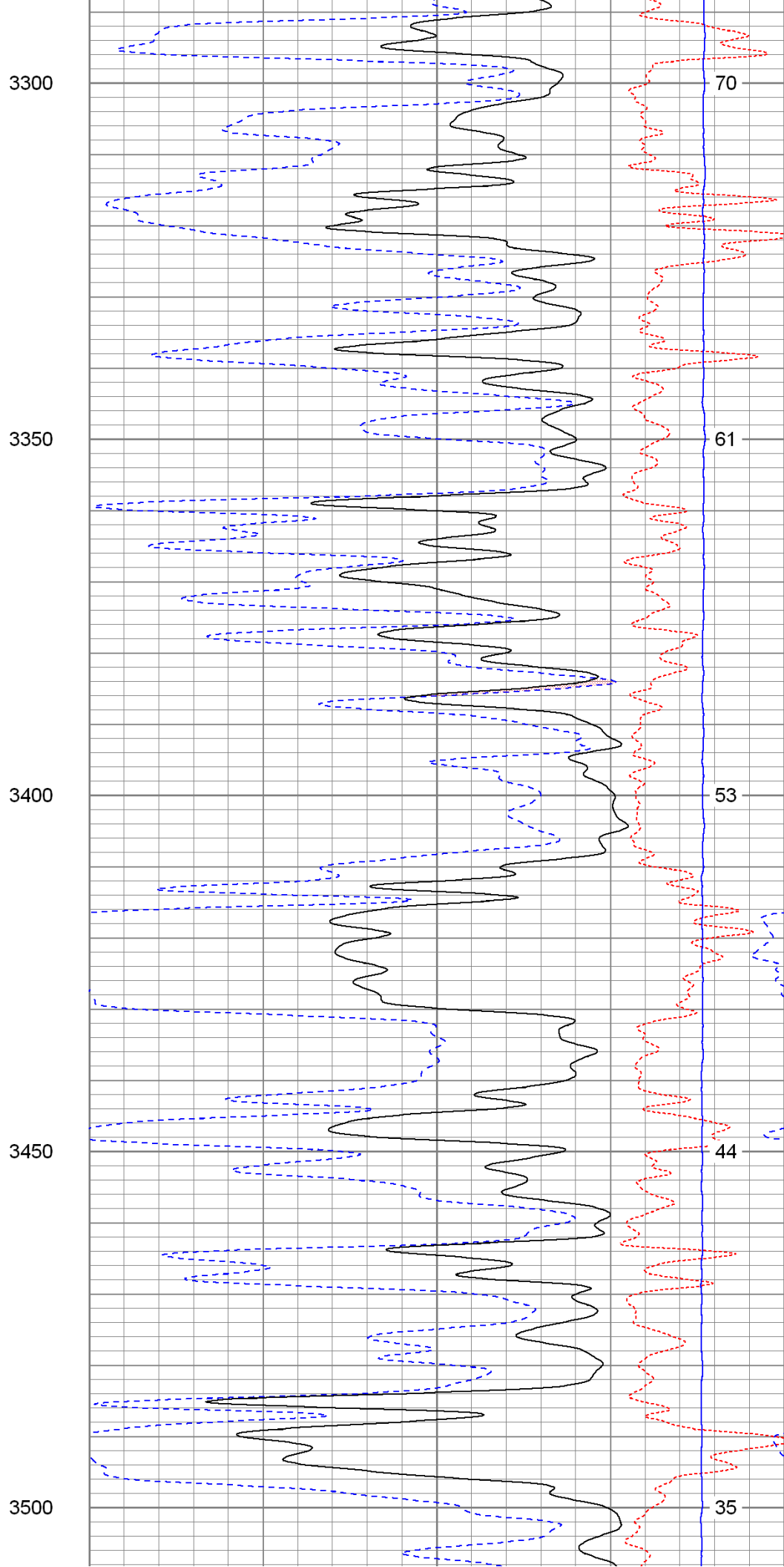
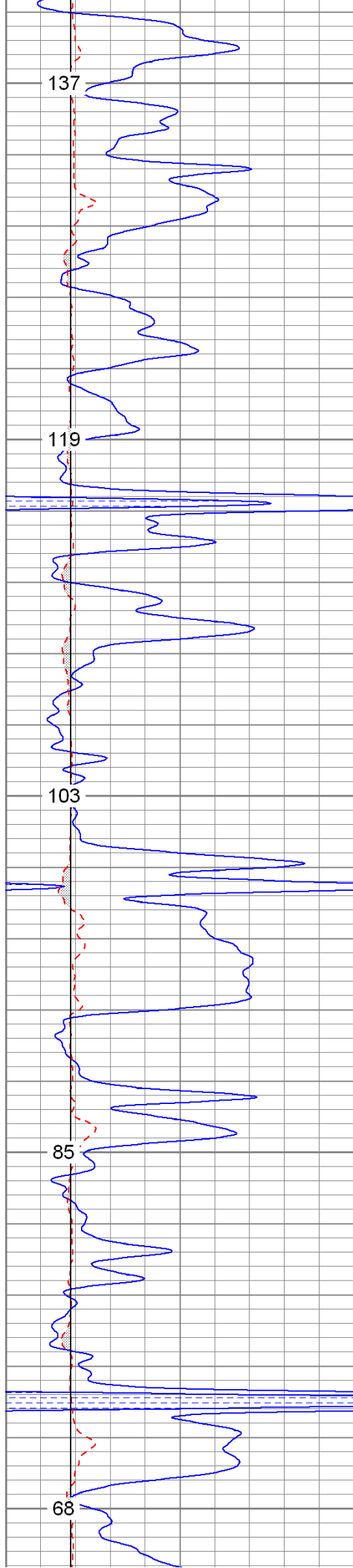
3100

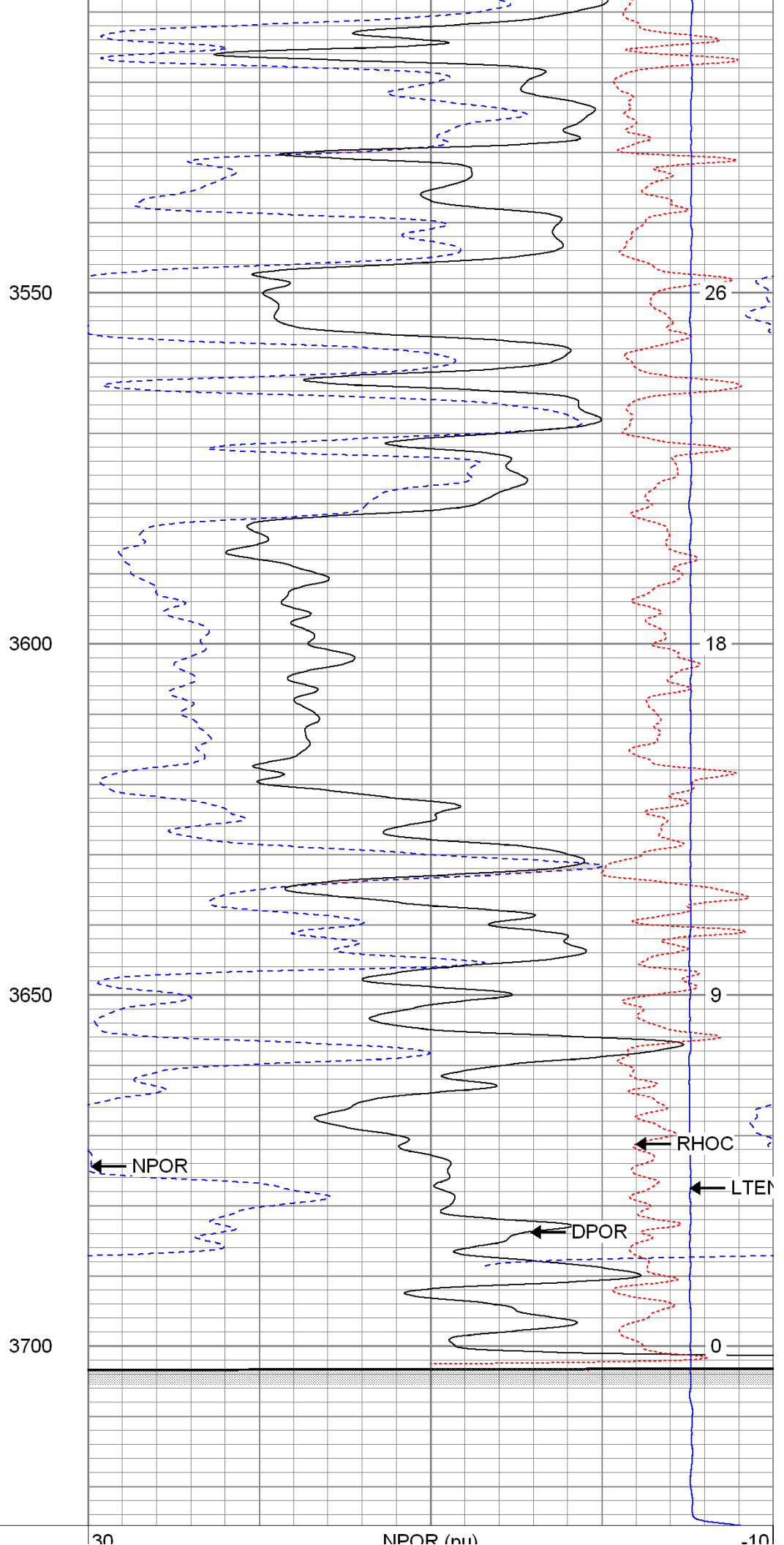
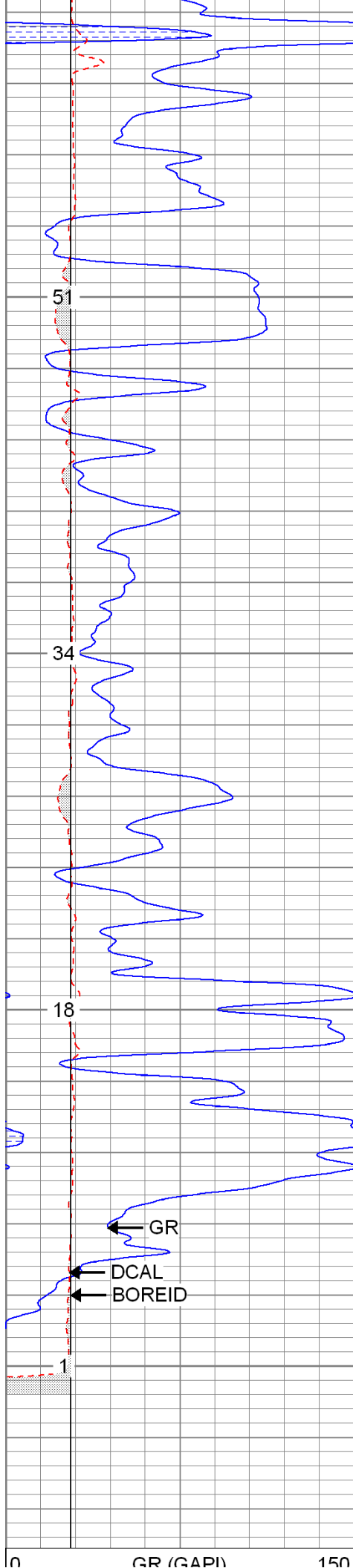
3150

3200

3250







6	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)		

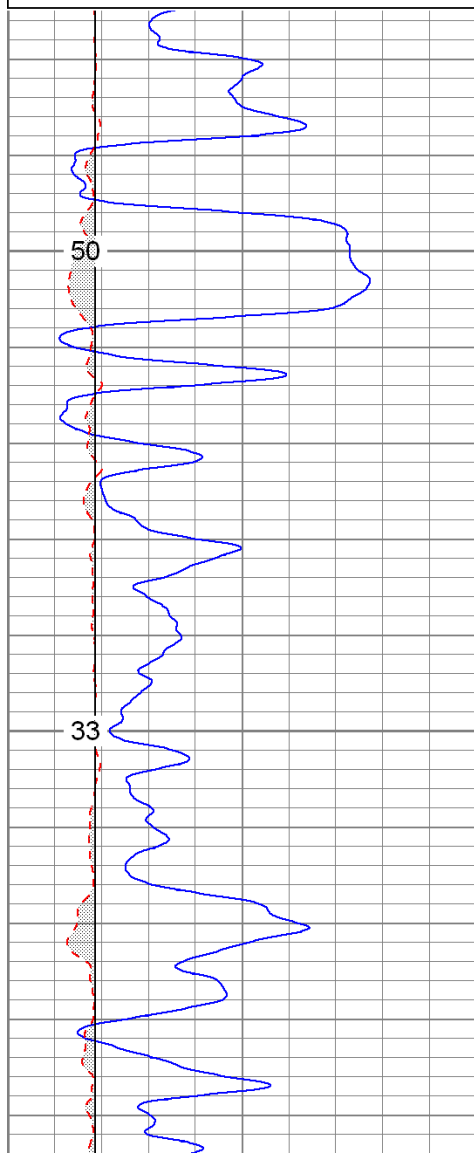


Repeat Pass

Database File: marston#1a-27.db
 Dataset Pathname: pass1
 Presentation Format: kcdnl
 Dataset Creation: Tue Apr 05 22:48:45 2011 by Log Open-Cased 100827
 Charted by: Depth in Feet scaled 1:240

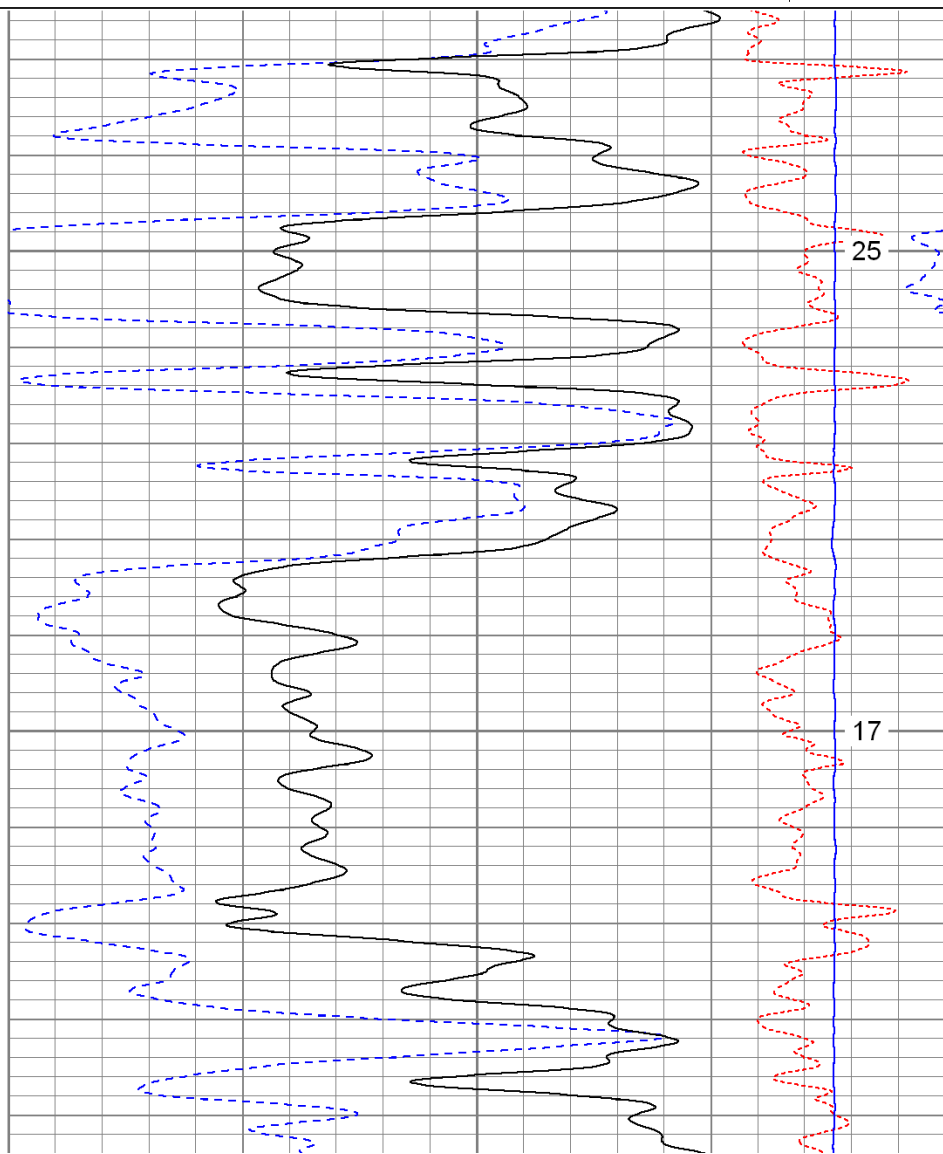
0	GR (GAPI)	150
6	DCAL (in)	16
6	BOREID (in)	16
TBHV (ft3)		

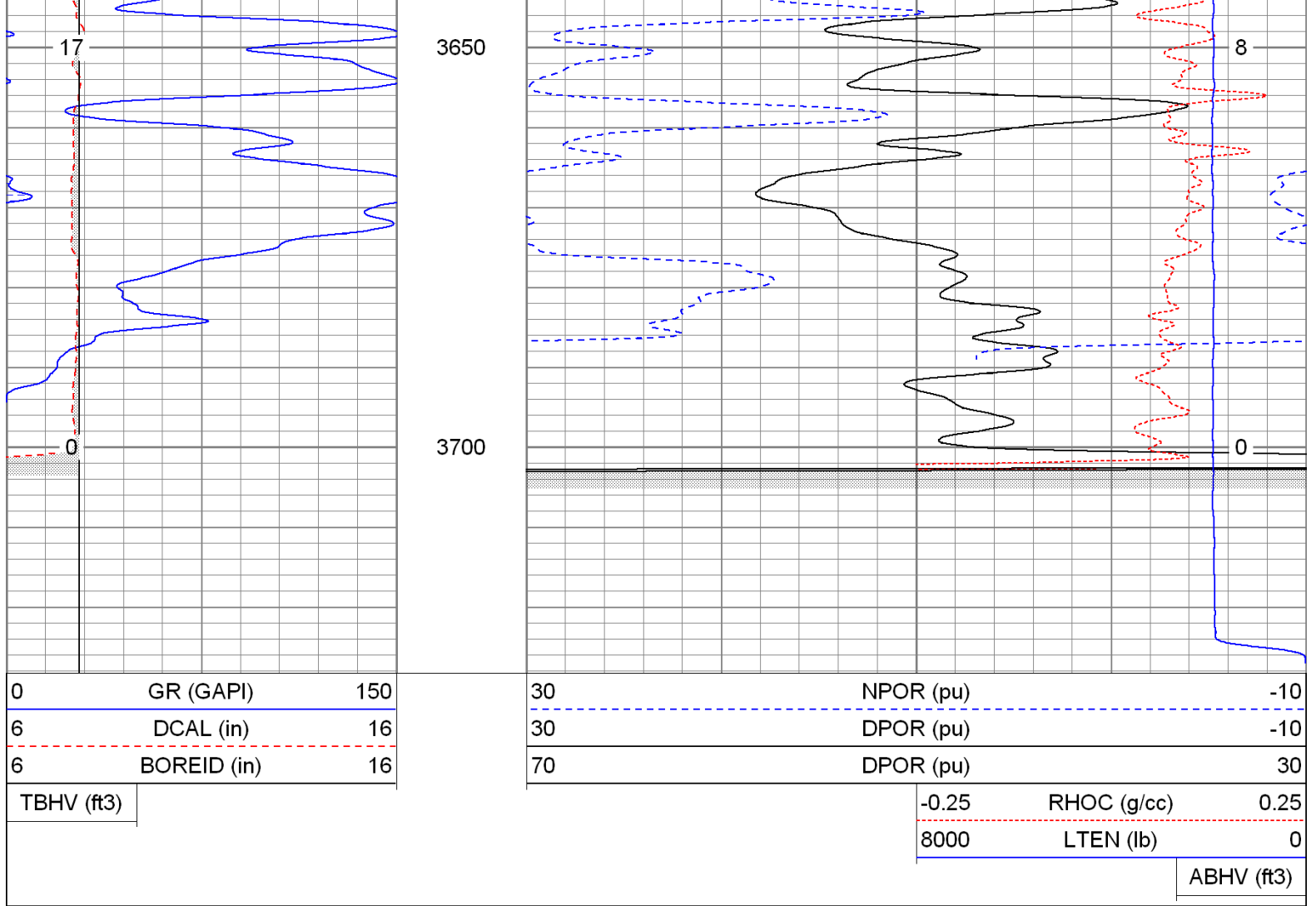
30	NPOR (pu)	-10
30	DPOR (pu)	-10
70	DPOR (pu)	30
-0.25	RHOC (g/cc)	0.25
8000	LTEN (lb)	0
ABHV (ft3)		



3550

3600



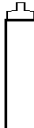


Calibration Report									
Database File:	marston#1a-27.db								
Dataset Pathname:	pass2								
Dataset Creation:	Tue Apr 05 23:00:30 2011 by Log Open-Cased 100827								
Dual Induction Calibration Report									
Serial-Model:		5375-G							
Surface Cal Performed:		Tue Mar 15 11:39:08 2011							
Downhole Cal Performed:		Tue Mar 15 11:39:48 2011							
Surface Calibration									
Readings				References			Results		
Loop:	Air	Loop		Air	Loop		m	b	
Deep	0.002	0.608	V	0.000	350.000	mmho/m	577.488	-0.892	
Medium	0.003	0.741	V	0.000	400.000	mmho/m	542.552	-1.894	
Internal:	Zero	Cal		Zero	Cal		m	b	
Deep	0.001	0.608	V	0.000	350.000	mmho/m	577.209	-0.793	
Medium	0.003	0.742	V	0.000	550.000	mmho/m	745.017	-2.496	
Downhole Calibration									
Readings				References			Results		
Internal:	Zero	Cal		Zero	Cal		m	b	
Deep	0.002	0.42-0.77	V	0.000	350-370	mmho/m	4.000	0.40-1	

Deep	0.335	349.655	mmho/m	-0.099	350.070	mmho/m	1.002	-0.434
Medium	0.166	400.176	mmho/m	-0.076	400.457	mmho/m	1.001	-0.242
Shallow	2.471	0.009	V	500.000	2.000	Ohm-m	202.295	0.191

Compensated Density Calibration Report					
Serial-Model:		2388DHT-DHT			
Source / Verifier:		/			
Master Calibration Performed:		Mon Mar 07 14:48:50 2011			
Master Calibration					
	Density		Far Detector	Near Detector	
Magnesium	1.750	g/cc	704.95	309.55	cps
Aluminum	2.620	g/cc	144.73	200.15	cps
	Spine Angle = 74.60		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:		Mon Mar 07 14:49:33 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:		Mon Mar 28 13:28:28 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
LSD DCAL SSD	23.78		CDL-DHT (2388DHT) Digital High Temp CDL Tool	9.69	4.00	201.00
	23.49					
	23.24					

HEADVOLT	21.47						
CILD	10.60						
SP	10.60						
CILM	6.89						
RLL3	1.70						
				DIL-G (5375) Gearhart	21.47	4.00	345.00
Dataset:				marston#1a-27.db: field/well/run1/pass2			
Total Length:				40.49 ft			
Total Weight:				676.00 lb			
O.D.				4.00 in			