



SUPERIOR
Hays,
Kansas

**COMPENSATED
DENSITY
NEUTRON LOG**

Company	RITCHIE EXPLORATION, INC.		
Well	#1 REBARCHEK 8A		
Field	WILDCAT		
County	GOVE	State	KANSAS
Location:	API # : 15-063-21827-0000 1585' FNL & 1760' FEL 65'N & 110'W OF NE - SW - NE SEC 8 TWP 14S RGE 31W		Other Services DIL
Permanent Datum	GROUND LEVEL	Elevation	2905
Log Measured From	KELLY BUSHING 10' A.G.L.	D.F.	2913
Drilling Measured From	KELLY BUSHING	G.L.	2905

Date	3-5-10		
Run Number	ONE		
Depth Driller	4655		
Depth Logger	4654		
Bottom Logged Interval	4630		
Top Log Interval	3600		
Casing Driller	220		
Casing Logger	219		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.2 / 55	CHLORIDES 2200	
pH / Fluid Loss	10.5 / 8.0		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	1.00 @ 60F		
Rinf @ Meas. Temp	0.75 @ 60F		
Rmc @ Meas. Temp	1.20 @ 60F		
Source of Rinf / Rmc	MEASURED		
Rim @ BHT	0.49 @ 122F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	122F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	JEFF GRONEWEG		
Witnessed By	TED JOCHEMS		

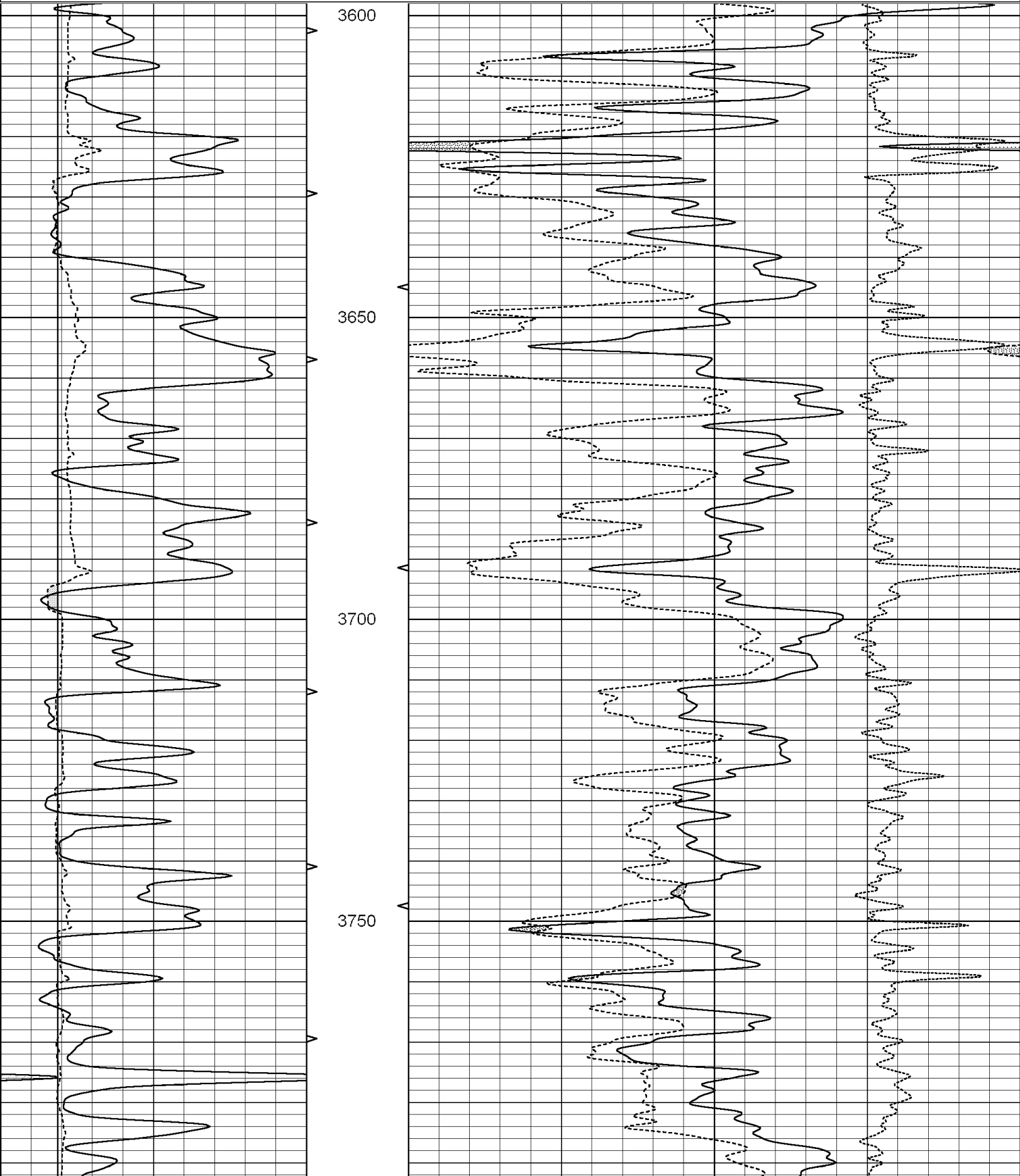
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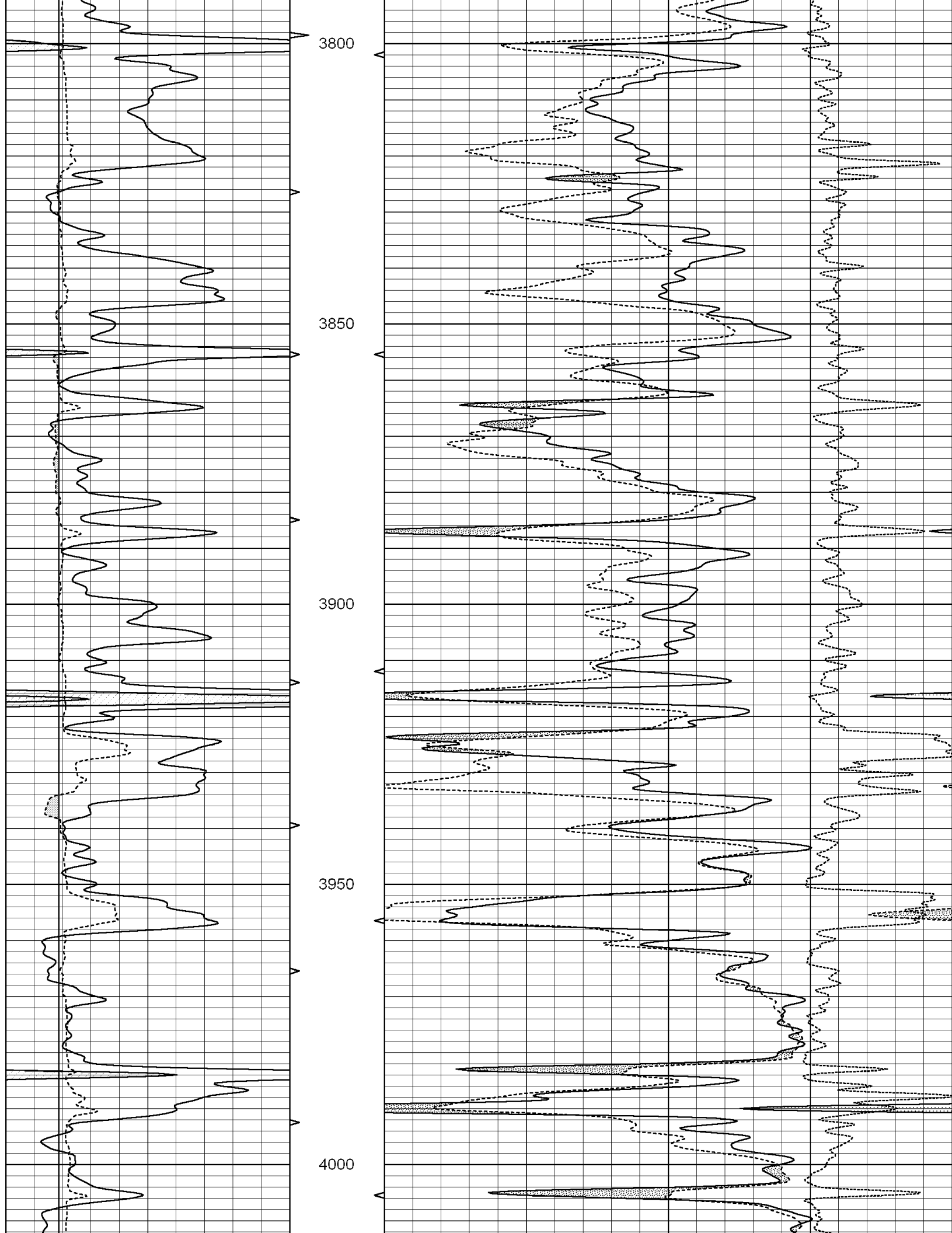
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

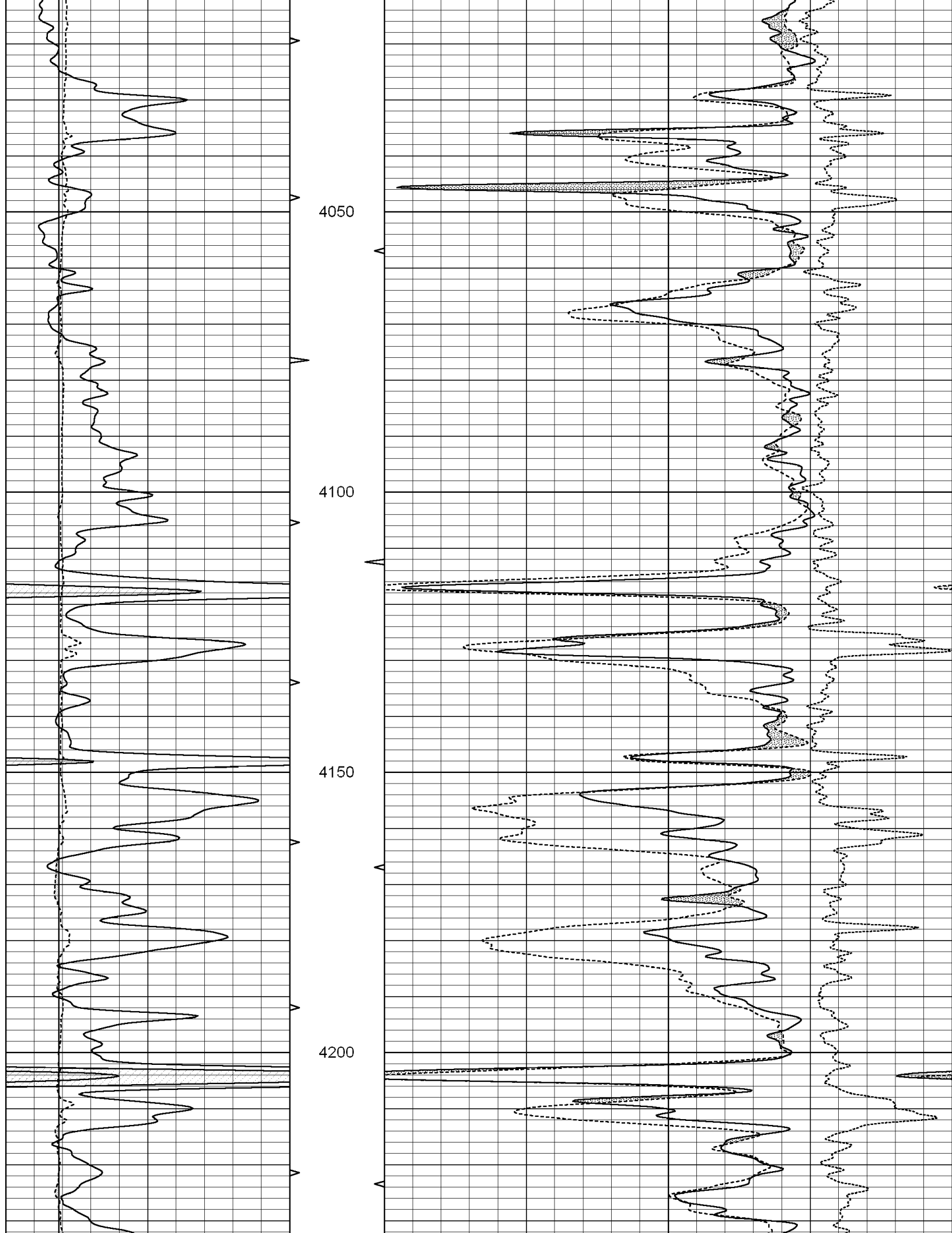
Comments

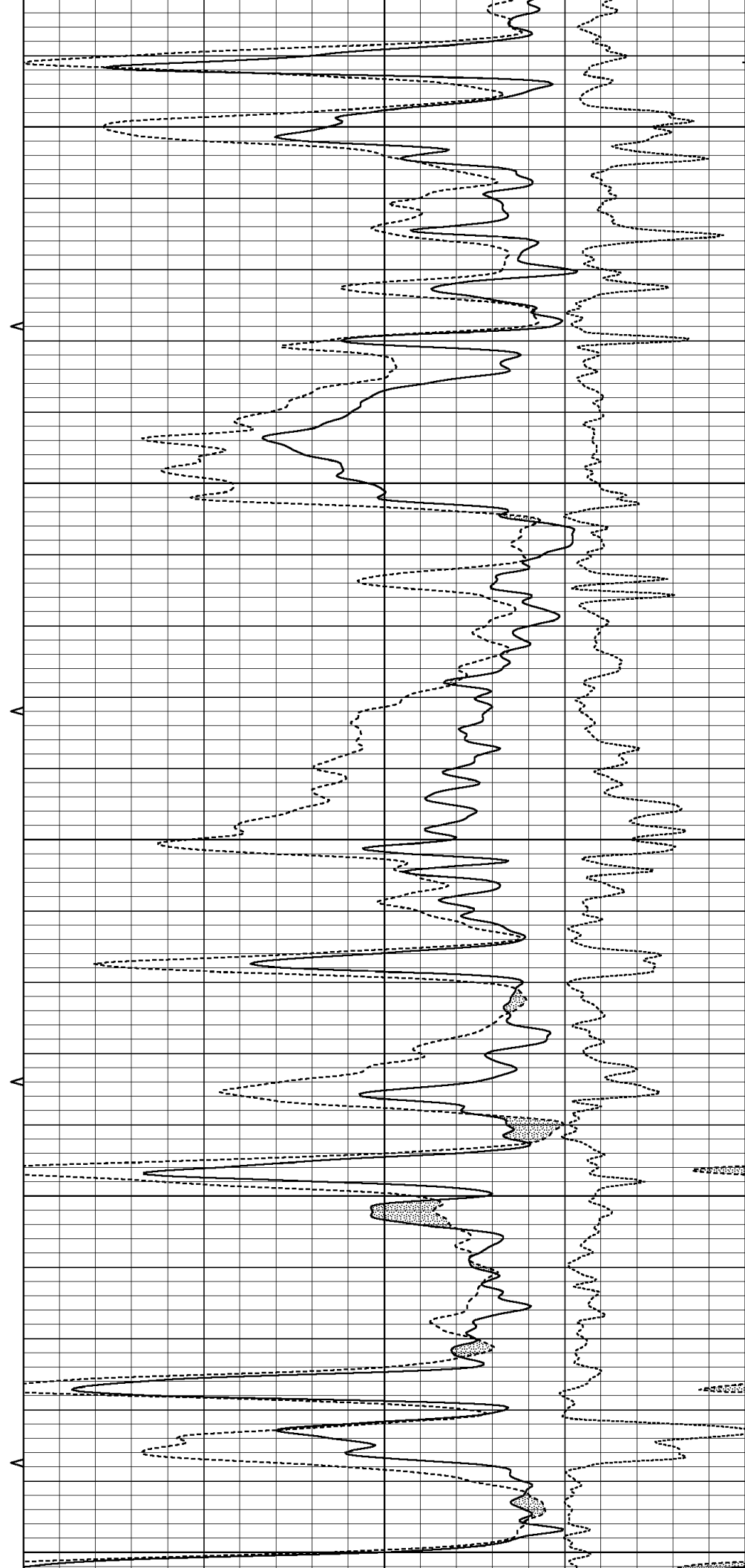
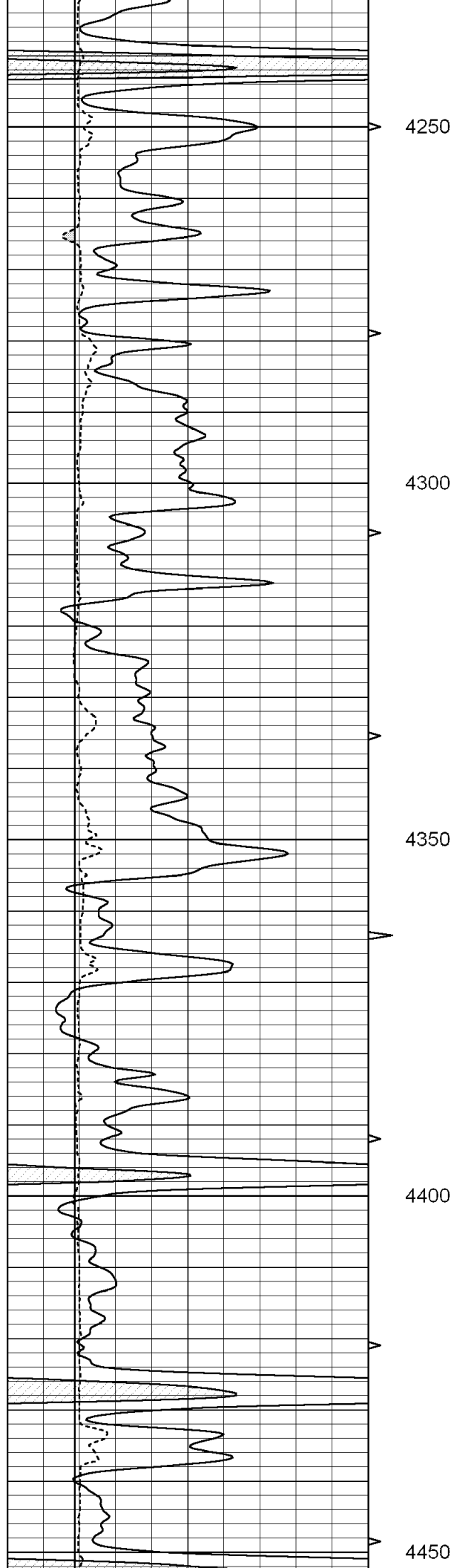
SUPERIOR WELL SERVICES
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: OAKLEY, KS - SOUTH ON HWY 83 TO JAYHAWK RD
EAST 4 MILES - NORTH 2 MILES - WEST 1/3 MILE
SOUTH INTO

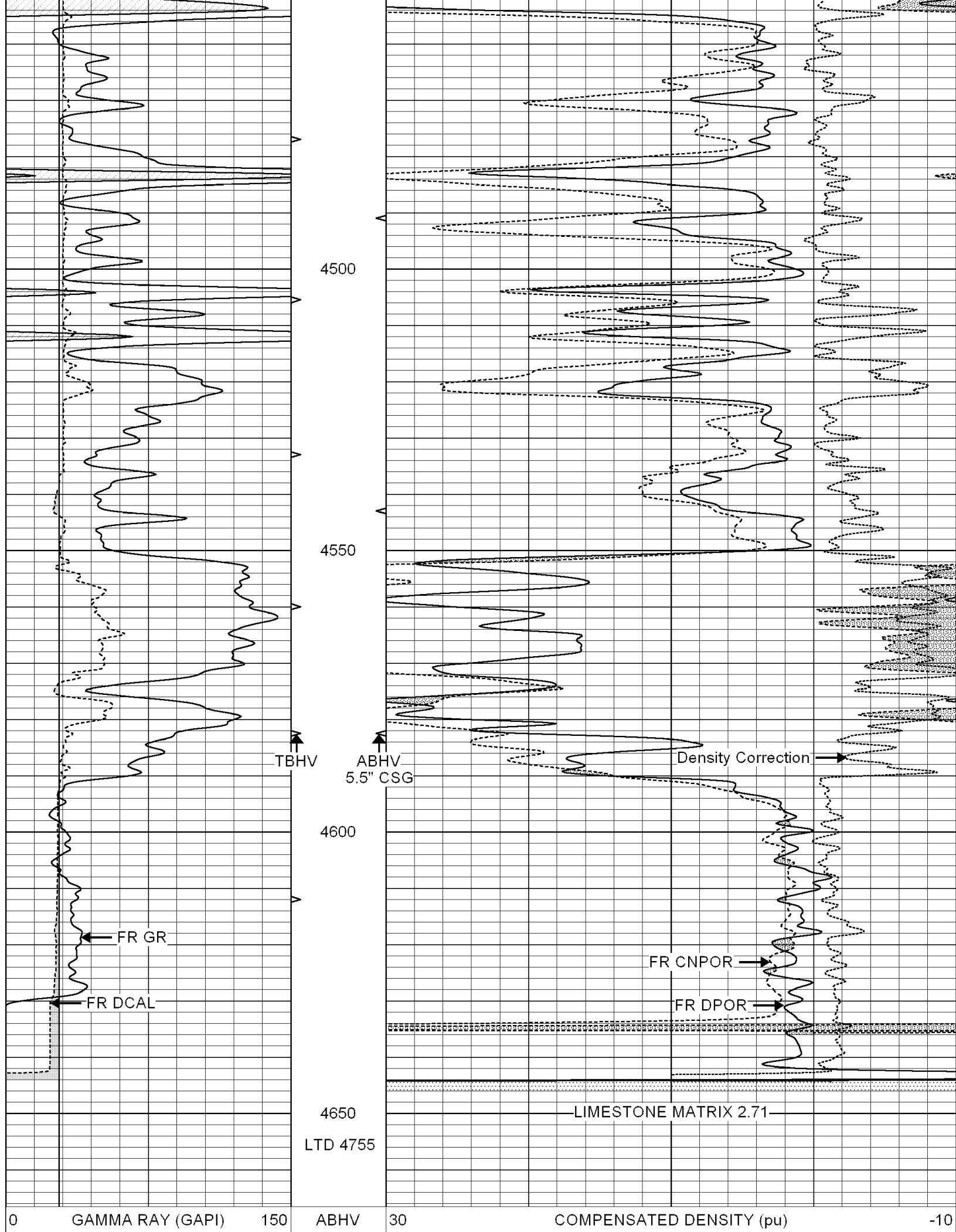
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3) 0	30	COMPENSATED NEUTRON (pu)	-10
			TBHV	-0.25 CORRECTION (g/cc) 0.25		
			0 (ft3) 10			











6	CALIPER (in)	16	10 (ft3)	0	30	COMPENSATED NEUTRON (pu)	-10
			TBHV			-0.25	CORRECTION (g/cc) 0.25
			0 (ft3) 10				



SUPERIOR

Hays,
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REPEAT SECTION

Database File:

004607ddn.db

Dataset Pathname:

pass2.1

Presentation Format:

den_neu

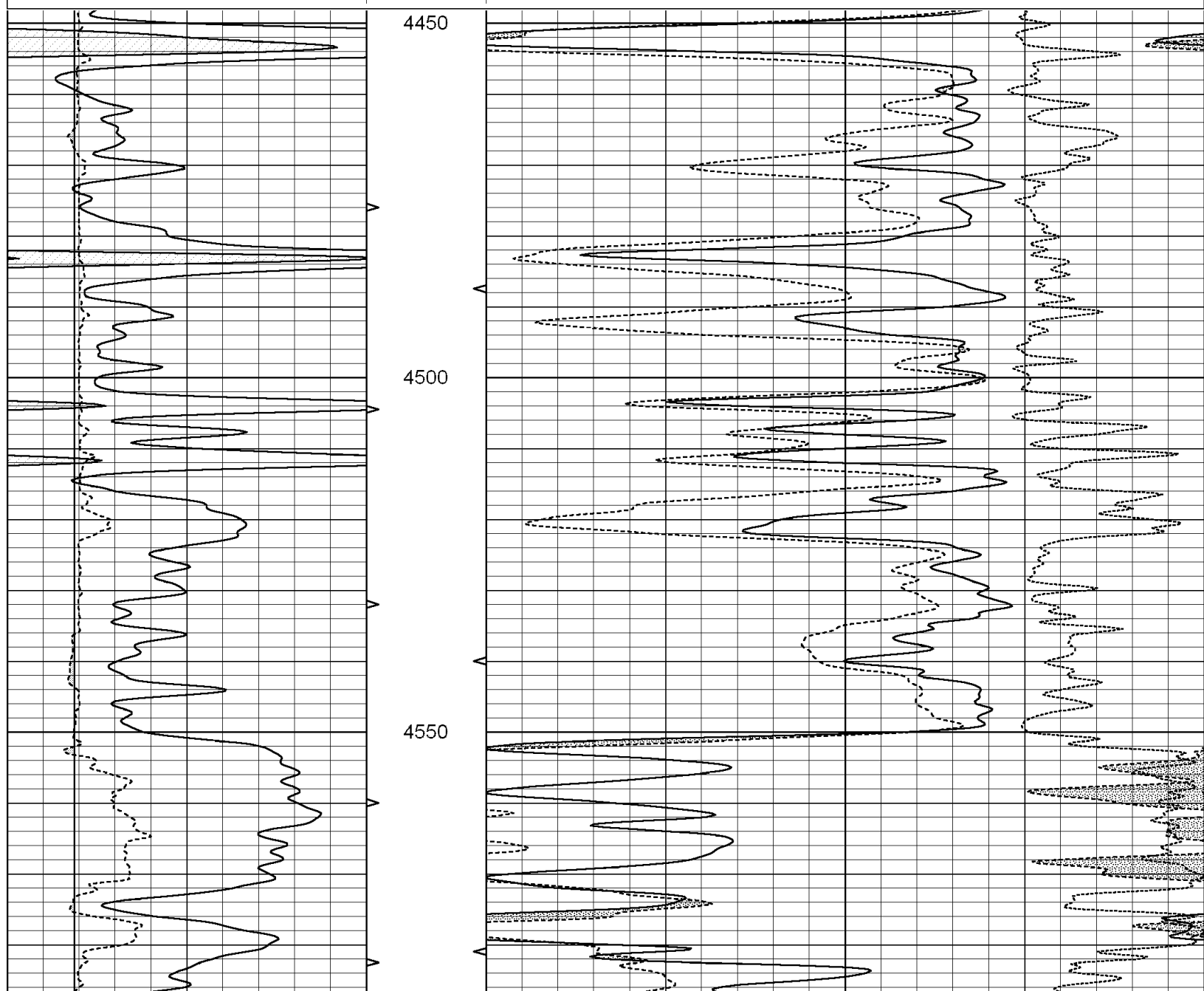
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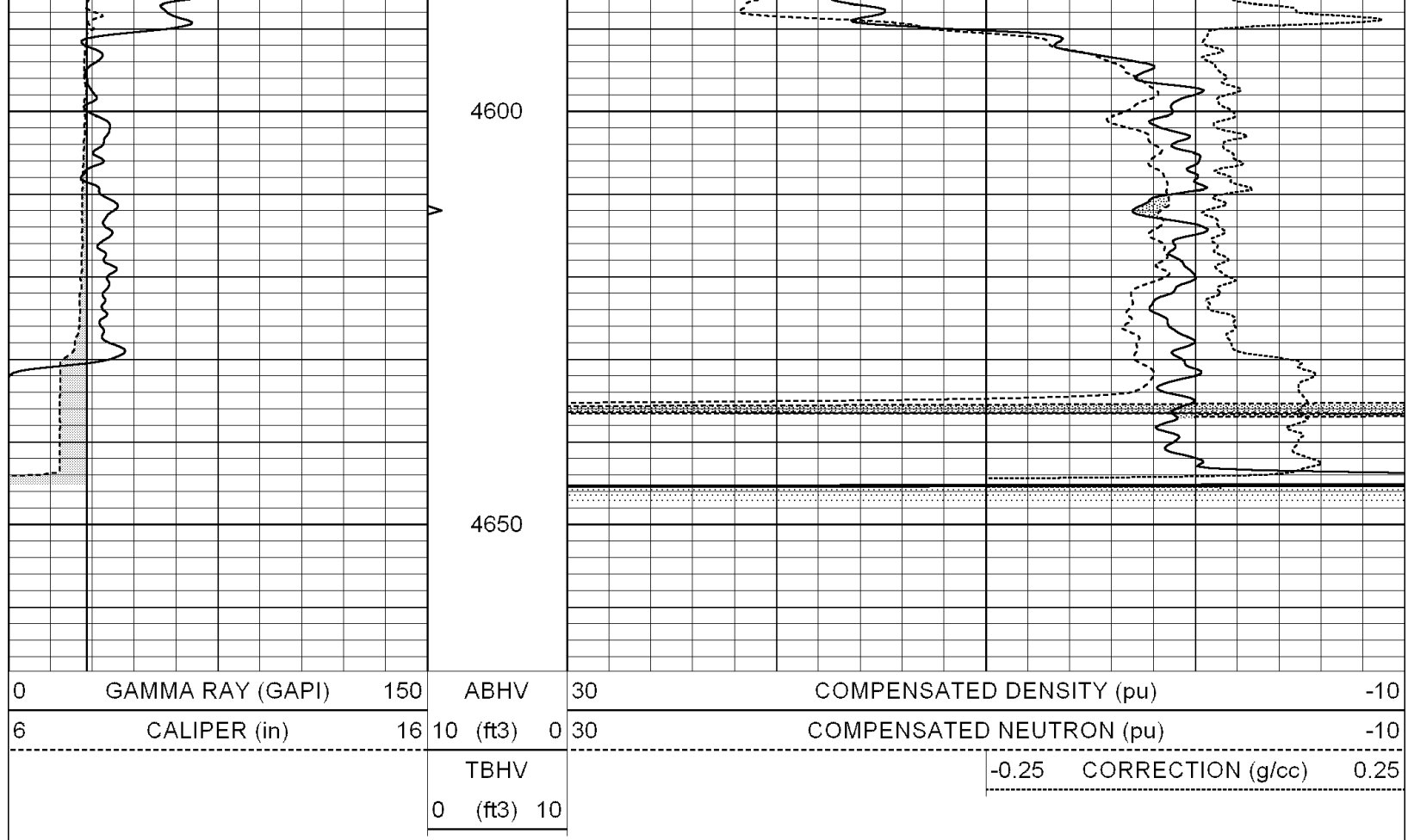
Fri Mar 05 18:05:26 2010 by Calc Open-Cased 090629

Charted by:

Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3) 0	30	COMPENSATED NEUTRON (pu)	-10
			TBHV		-0.25	CORRECTION (g/cc) 0.25
			0 (ft3) 10			





Calibration Report

Database File: 004607ddn.db
 Dataset Pathname: pass4.1
 Dataset Creation: Fri Mar 05 18:49:53 2010 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model: DIL5-GEAR
 Performed: Tue Mar 02 14:36:53 2010

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.004	0.654	V	0.000	400.000	mmho/m	550.000	-8.000
Medium	-0.005	0.737	V	0.000	462.500	mmho/m	540.000	-15.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.006	0.655	V	0.000	400.000	mmho/m	615.668	-3.483
Medium	0.010	0.747	V	0.000	462.500	mmho/m	627.607	-6.064

Compensated Density Calibration Report

Serial-Model: GEAR1-GEARHART
 Source / Verifier: 147 / 147
 Master Calibration Performed: Tue Mar 02 15:17:32 2010

Master Calibration

	Density		Far Detector		Near Detector	
Magnesium	1.710	g/cc	1006.91	528.07	cps	
Aluminum	2.600	g/cc	233.49	355.80	cps	

Spine Angle = 74.88

Density/Spine Ratio = 0.588

	Size		Reading	
Small Ring	8.10	in	3.68	V
Large Ring	14.00	in	6.06	V

Compensated Neutron Calibration Report

Serial Number: NEU_11
Tool Model: G

CALIBRATION

Detector	Readings		Target		Normalization
Short Space	1.00	cps	1.00	cps	1.0000
Long Space	1.00	cps	1.00	cps	1.0000

Gamma Ray Calibration Report

Serial Number: GR5
Tool Model: OPEN
Performed: Thu Mar 04 09:56:14 2010

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps

Calibrator Reading: 1.0 cps

Sensitivity: 0.6000 GAPI/cps