



**COMPLETION
& PRODUCTION
SERVICES CO.**

**COMPENSATED
DENSITY / NEUTRON
LOG**

Company	PIONEER RESOURCES	Location:	API # : 15-051-26599	Other Services
Well	BAUMRUCKER "B" #5		1643' FNL & 1904' FWL	DIL
Field	BAUMRUCKER			
County	ELLIS			
State	KANSAS			
SEC 25	TWP 14S	RGE 16W		
Permanent Datum	GROUND LEVEL	Elevation	1846	Elevation
Log Measured From	KELLY BUSHING 5' A.G.L.			K.B. 1851
Drilling Measured From	KELLY BUSHING			D.F. 1846
Date	9-28-13			
Run Number	ONE			
Depth Driller	3418			
Depth Logger	3419			
Bottom Logged Interval	3395			
Top Log Interval	2400			
Casing Driller	220			
Casing Logger	220			
Bit Size	7.875			
Type Fluid in Hole	CHEMICAL MUD			
Density / Viscosity	9.2 / 58			
pH / Fluid Loss	10.0 / 9.2			
Source of Sample	FLOWLINE			
Rim @ Meas. Temp	0.40 @ 80F			
Rmf @ Meas. Temp	0.30 @ 80F			
Rmc @ Meas. Temp	0.48 @ 80F			
Source of Rmf / Rmc	MEASURED			
Rim @ BHT	.290 @ 109F			
Time Circulation Stopped	2 HOURS			
Time Logger on Bottom	7:00 P.M.			
Maximum Recorded Temperature	109F			
Equipment Number	860			
Location	HAYS, KS.			
Recorded By	RUPP			
Witnessed By	CHARLIE STURDAVANT			

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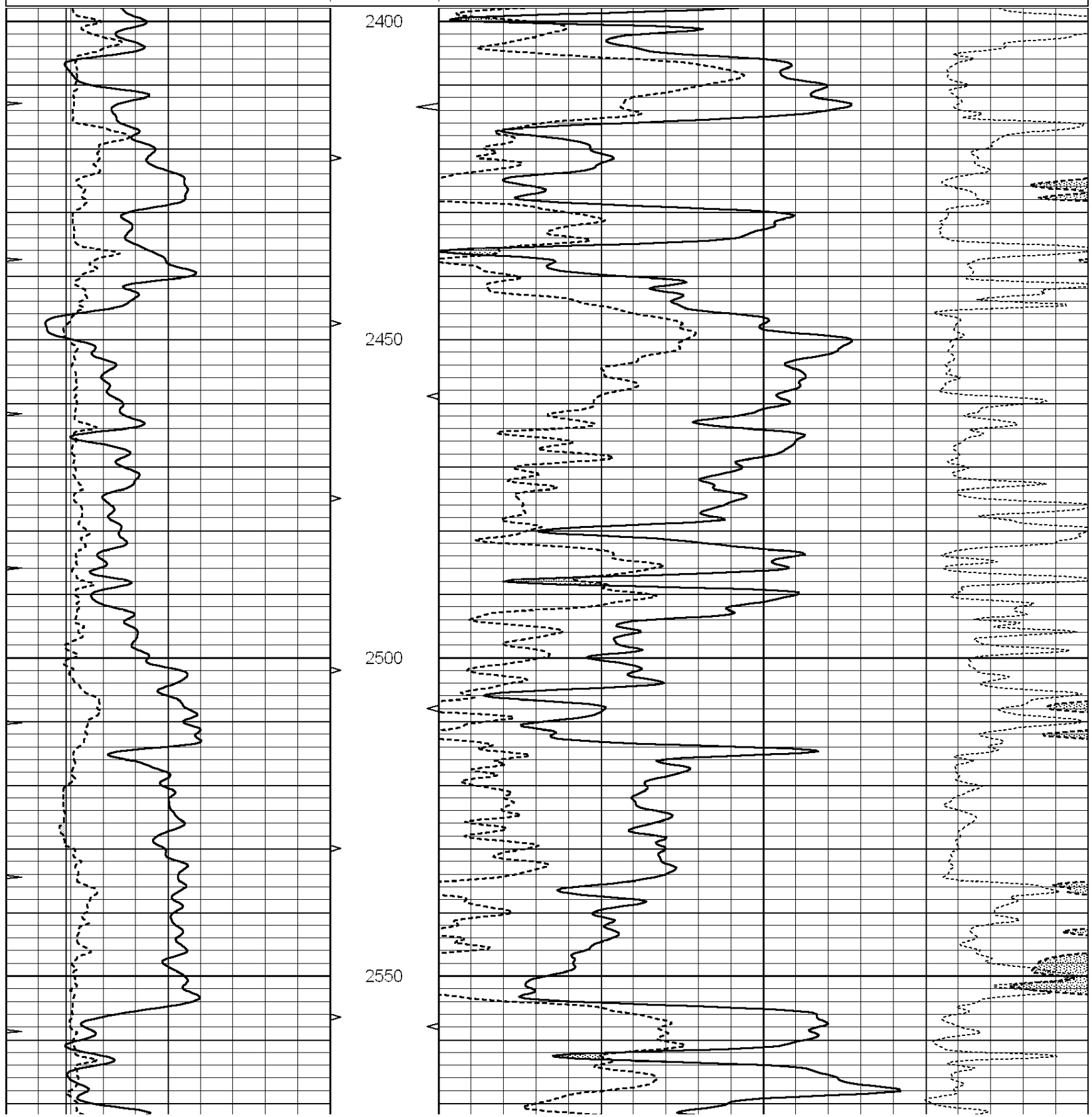
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

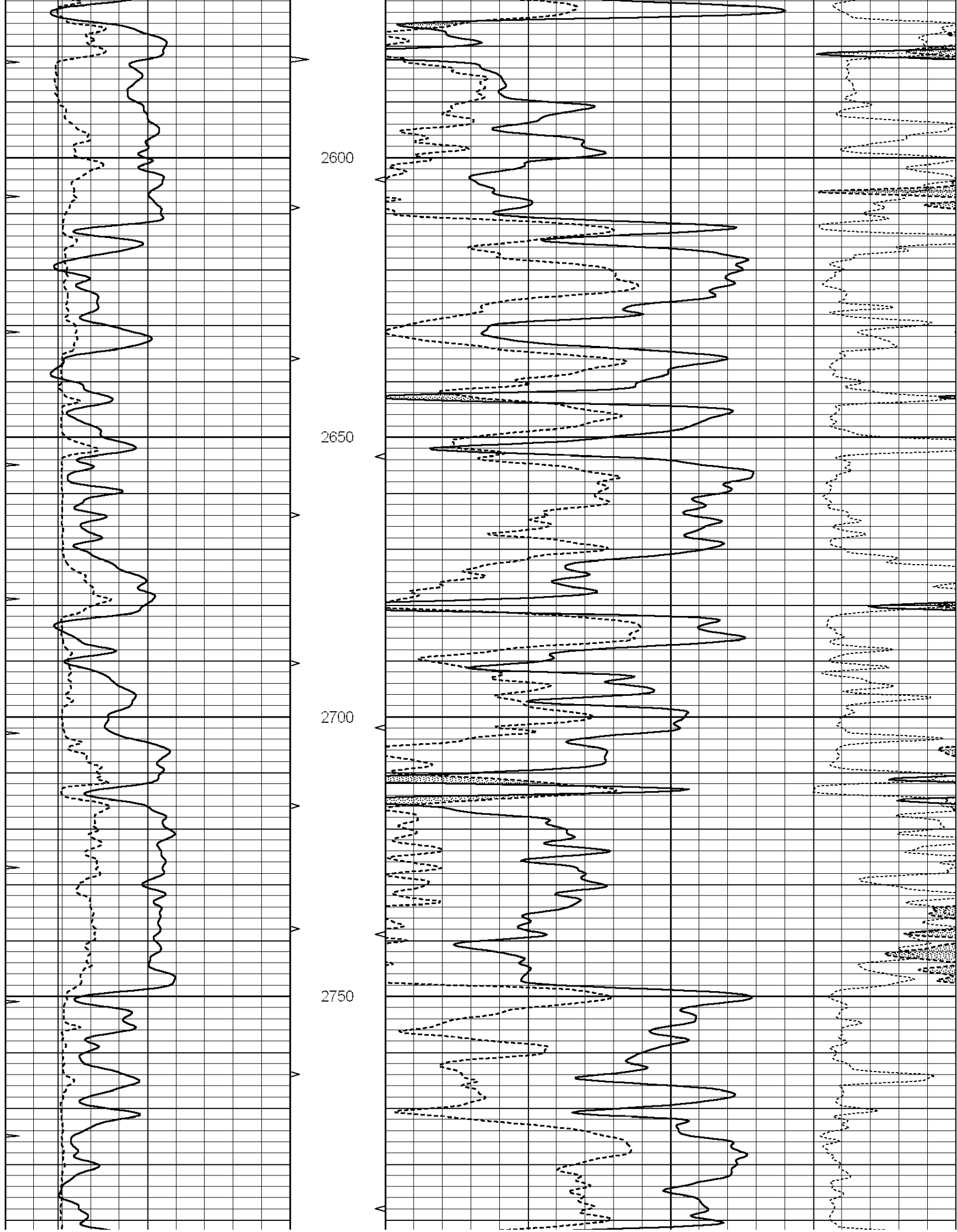
Comments

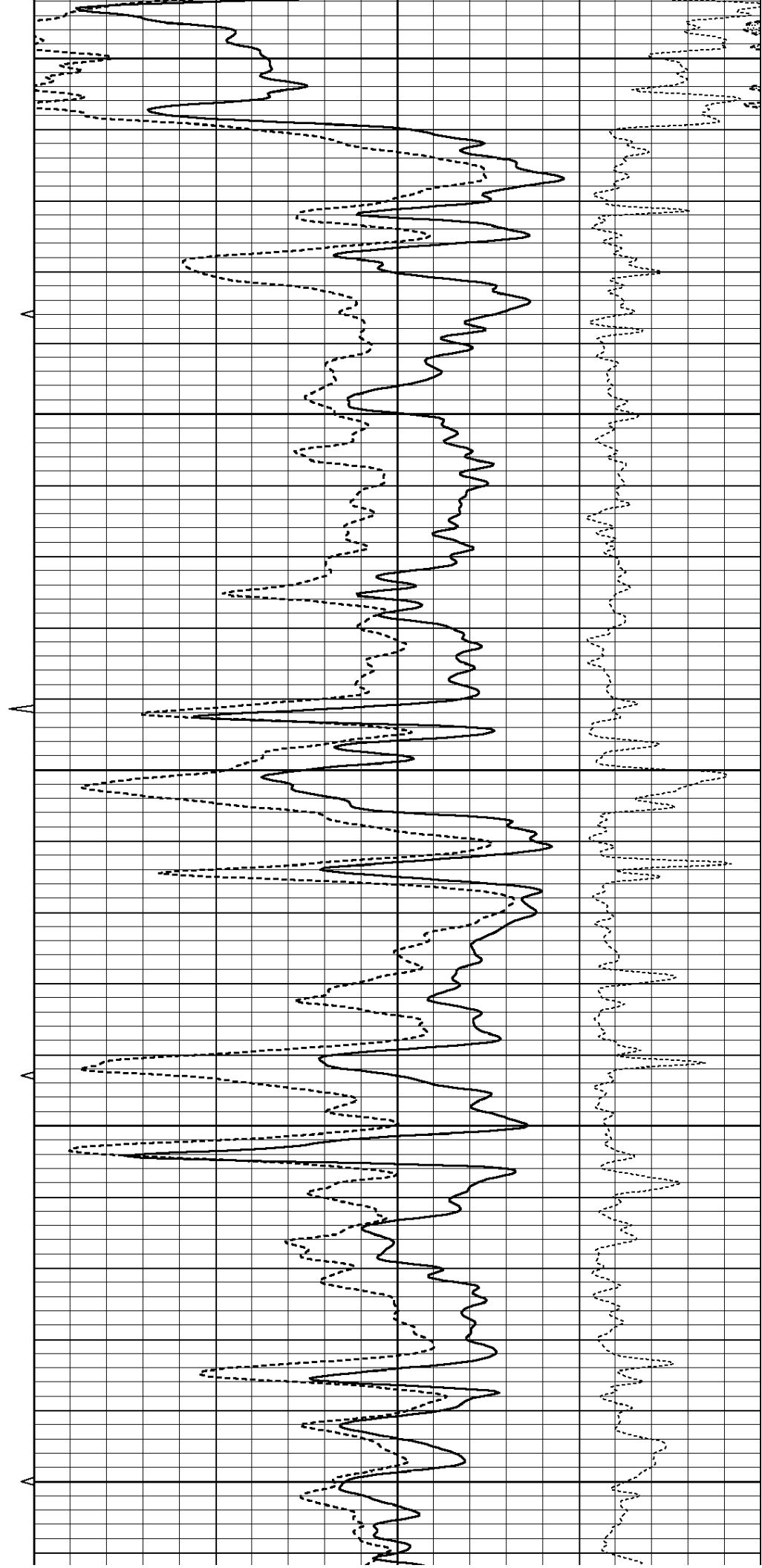
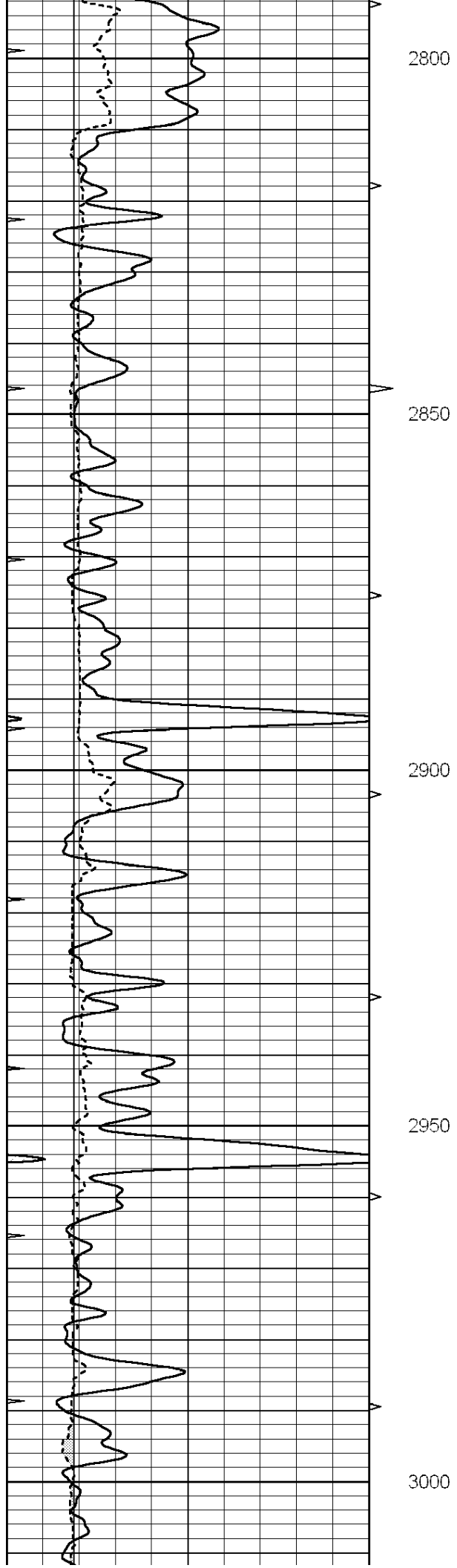
NABORS COMPLETION & PRODUCTION SERVICES
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: WALKER & I-70, 3 1/2S, 1 1/2E, S INTO.

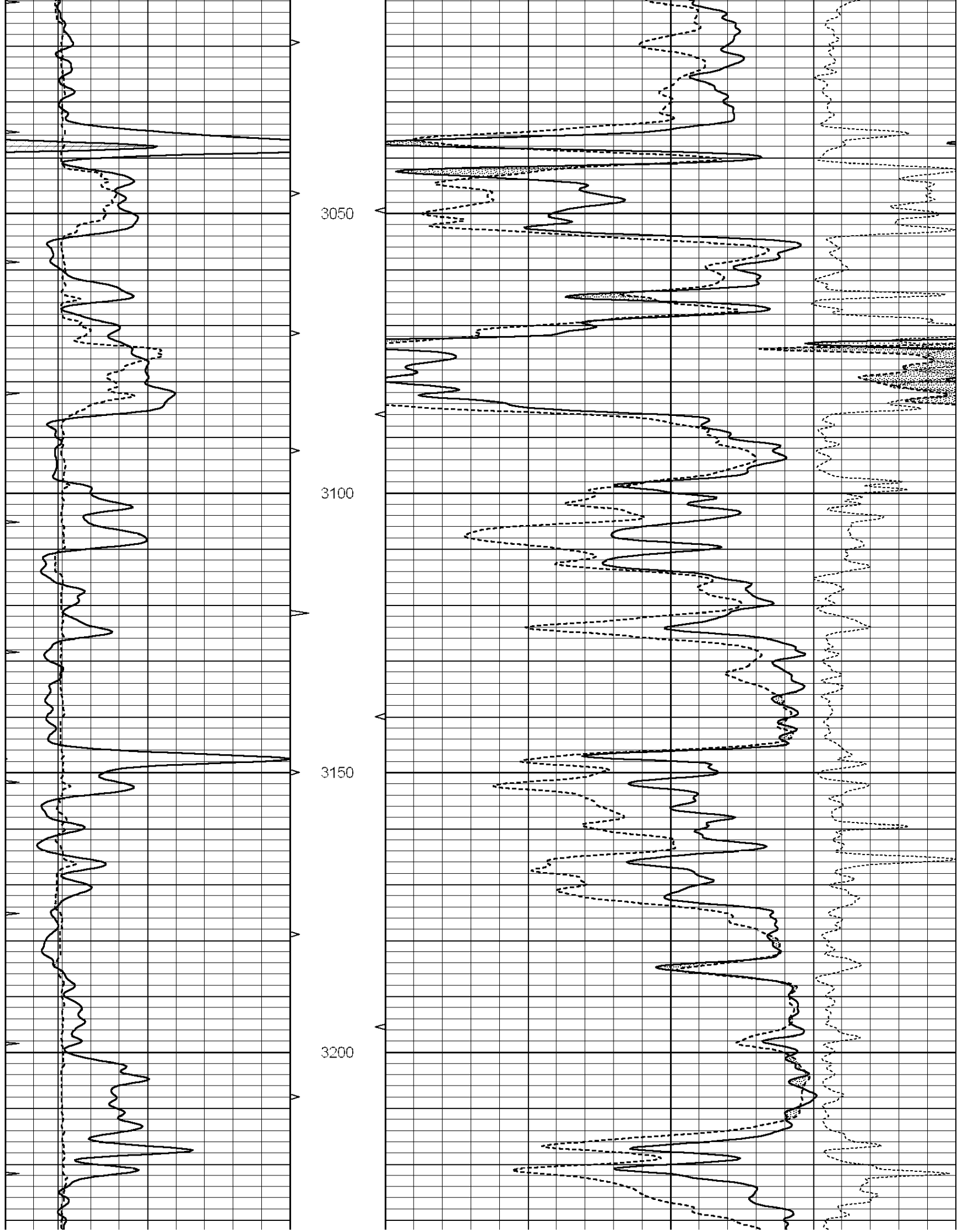
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 Dataset Pathname: pass3.1
 Presentation Format: _den_neu
 Dataset Creation: Sat Sep 28 20:23:33 2013 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240

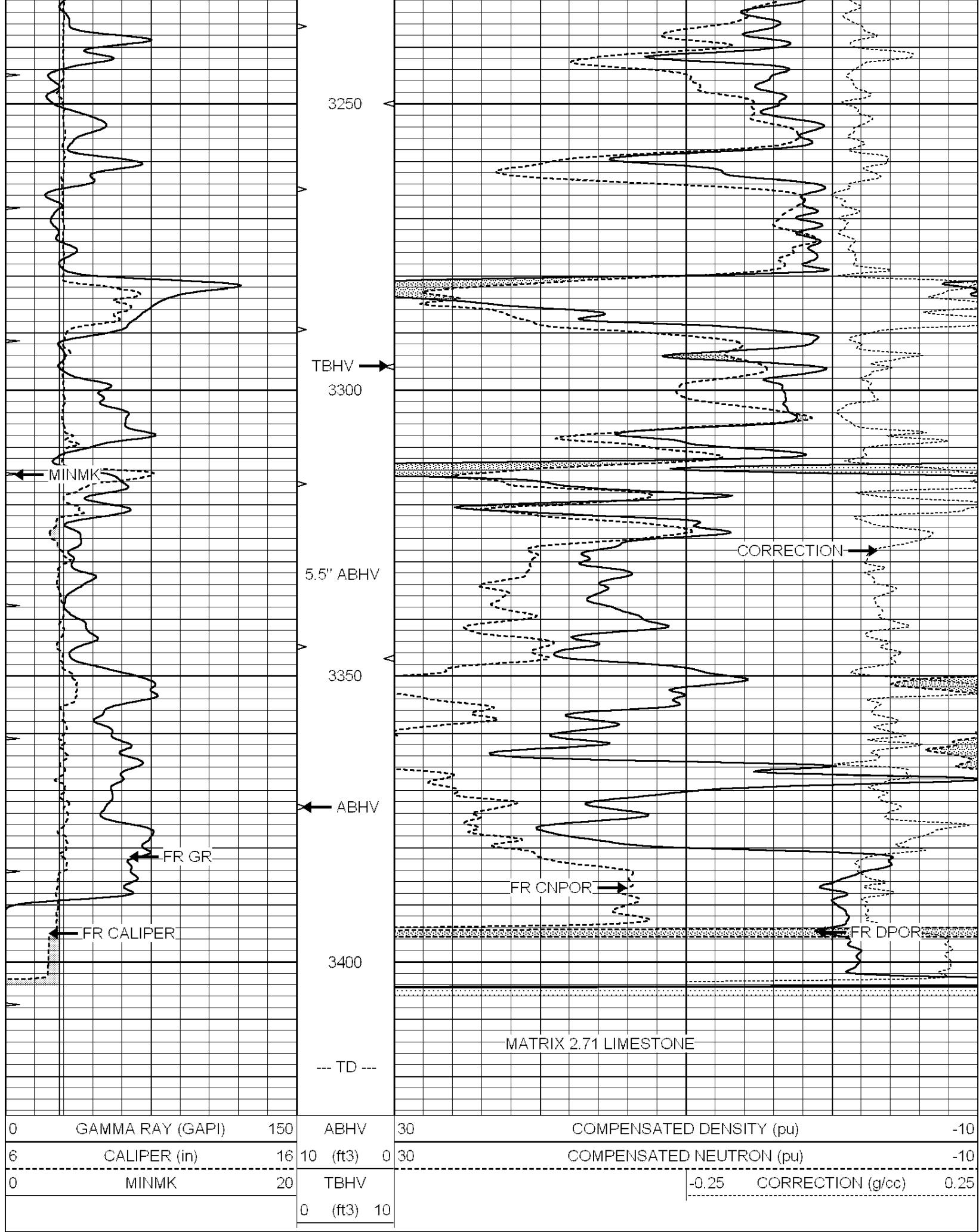
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3)	0 30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3)	10		







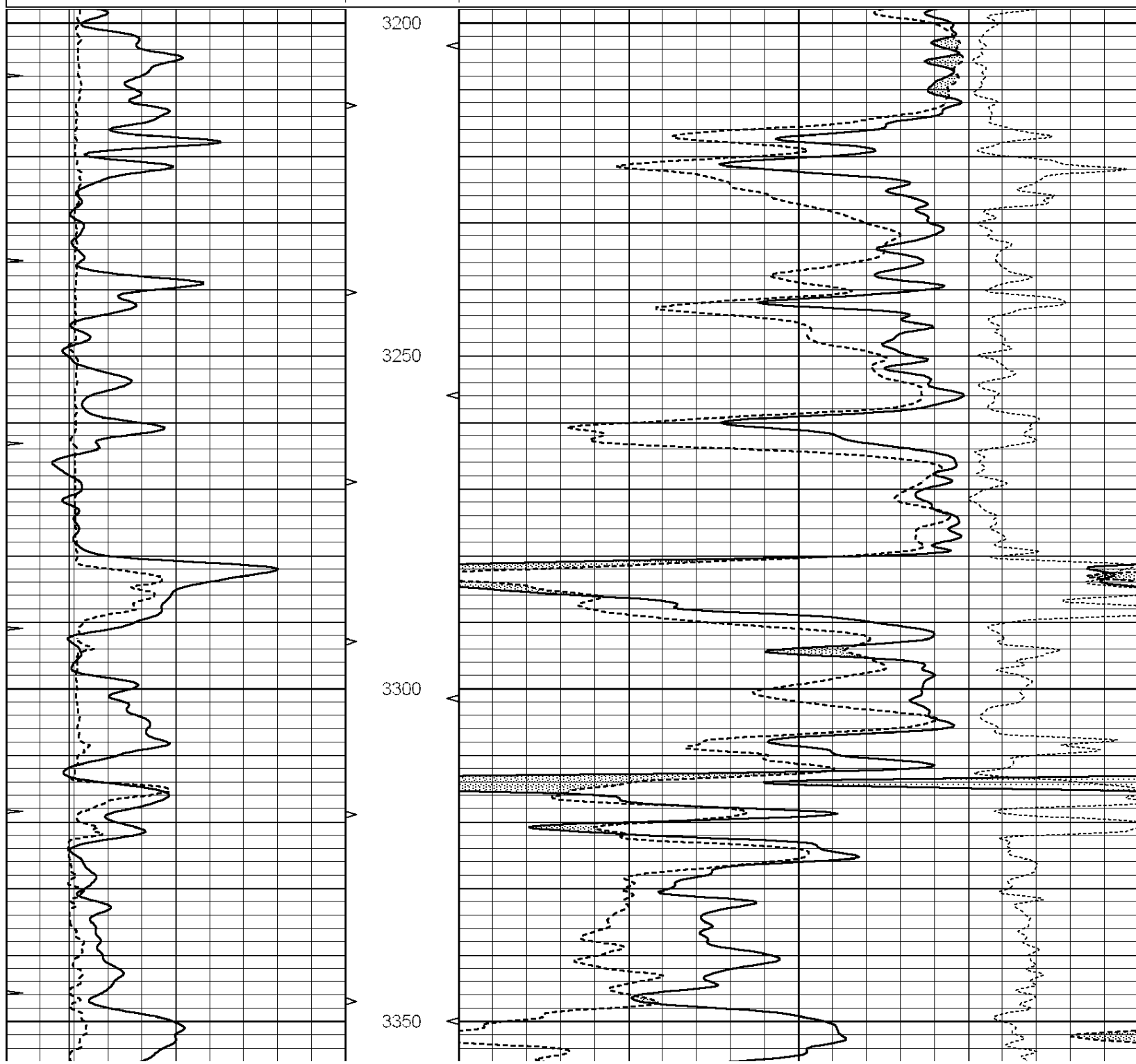


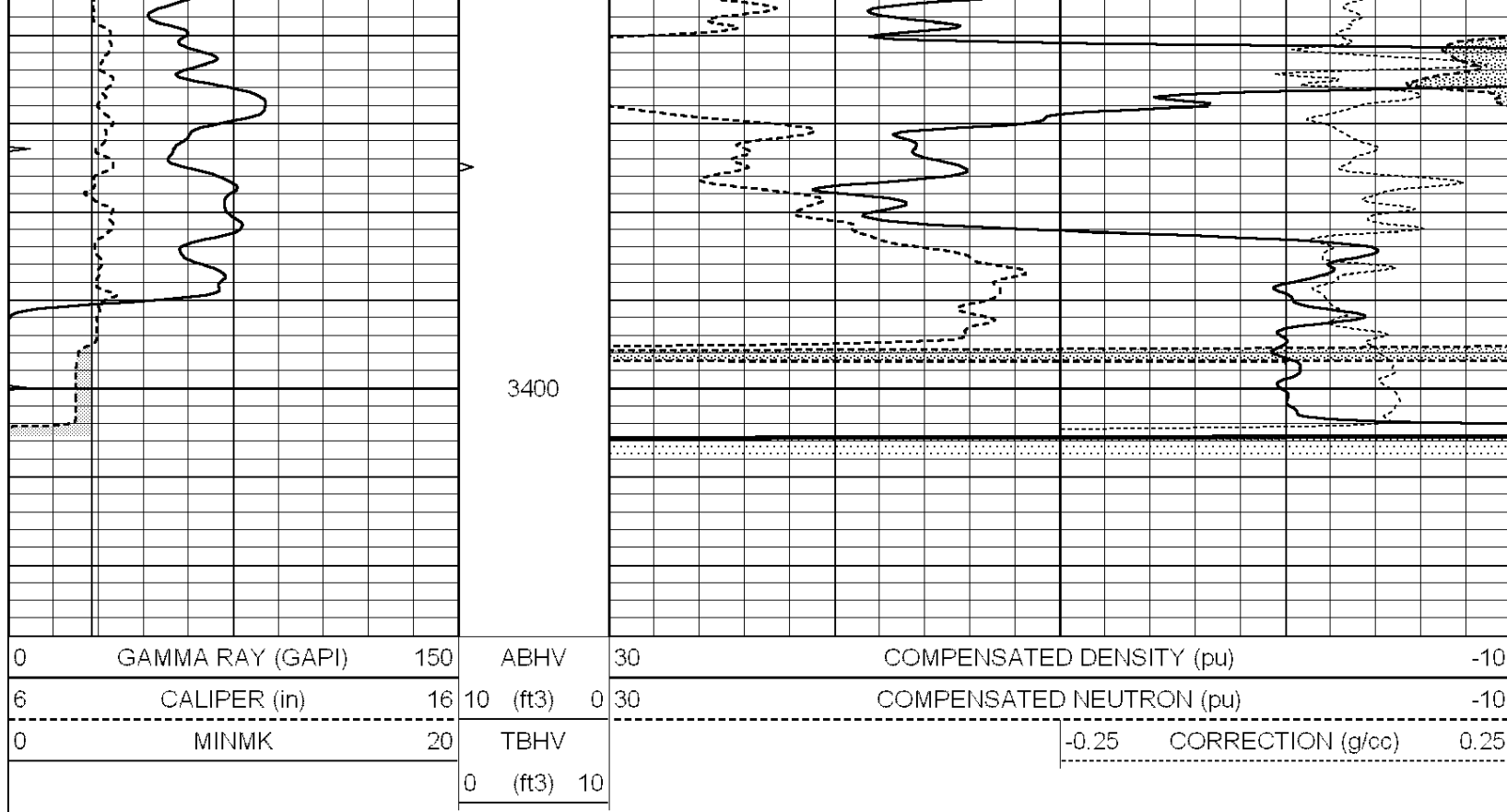


REPEAT SECTION

Database File: 010207ddn.db
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 Presentation Format: _den_neu
 Dataset Creation: Sat Sep 28 20:02:01 2013 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
0	MINMK	20	TBHV		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3)	10		





Calibration Report

Database File: 010207ddn.db
Dataset Pathname: pass3.1
Dataset Creation: Sat Sep 28 20:23:33 2013 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model: DIL3-GEAR
Performed: Sat Sep 28 19:51:22 2013

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.011	0.656	V	0.000	400.000	mmho/m	460.000	4.000
Medium	0.013	0.740	V	0.000	462.500	mmho/m	510.000	4.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.002	0.645	V	0.000	400.000	mmho/m	560.000	-1.071
Medium	0.007	0.740	V	0.000	462.500	mmho/m	540.000	-4.000

Compensated Density Calibration Report

Serial-Model: GEAR1-GEARHART
Source / Verifier: 147 / 147
Master Calibration Performed: Sat Sep 28 19:50:31 2013

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	1205.77	610.74	cps
Aluminum	2.580	g/cc	271.21	419.72	cps

Spine Angle = 75.89

Density/Spine Ratio = 0.566

Size

Reading

Small Ring	8.20	in	4.83	V	
Large Ring	14.00	in	7.01	V	
Compensated Neutron Calibration Report					
		Serial Number:	NEU_4I		
		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:		Sat Sep 28 19:49:56 2013			
Calibrator Value:		1.0	GAPI		
Background Reading:		0.0	cps		
Calibrator Reading:		1.0	cps		
Sensitivity:		1.0000	GAPI/cps		