



**COMPLETION
& PRODUCTION
SERVICES CO.**

**COMPENSATED
DENSITY / NEUTRON
PE LOG**

Company	LOTUS OPERATING COMPANY, LLC	Company	LOTUS OPERATING COMPANY, LLC
Well	EADS #2	Well	EADS #2
Field	WILDCAT	Field	WILDCAT
County	PRATT	County	PRATT
State	KANSAS	State	KANSAS
Location:	API # : 15-151-22420-00-00 1290' FNL & 1650' FWL	Other Services DIL/MEL SONIC	
Permanent Datum	GROUND LEVEL	Elevation	1976
Log Measured From	KELLY BUSHING 13' A.G.L.	K.B.	1989
Drilling Measured From	KELLY BUSHING	D.F.	1987
		G.L.	1976
Date	7-13-13		
Run Number	ONE		
Depth Driller	5000		
Depth Logger	5002		
Bottom Logged Interval	4978		
Top Log Interval	3800		
Casing Driller	270		
Casing Logger	269		
Bit Size	10.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.4 / 54		
pH / Fluid Loss	10.0 / 10.0		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	0.5 @ 93F		
Rmf @ Meas. Temp	0.38 @ 93F		
Rmc @ Meas. Temp	0.60 @ 93F		
Source of Rmf / Rmc	MEASURED		
Rim @ BHT	0.37 @ 125F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	125F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	IAN MABB		
Witnessed By	HARLEY SAYLES		

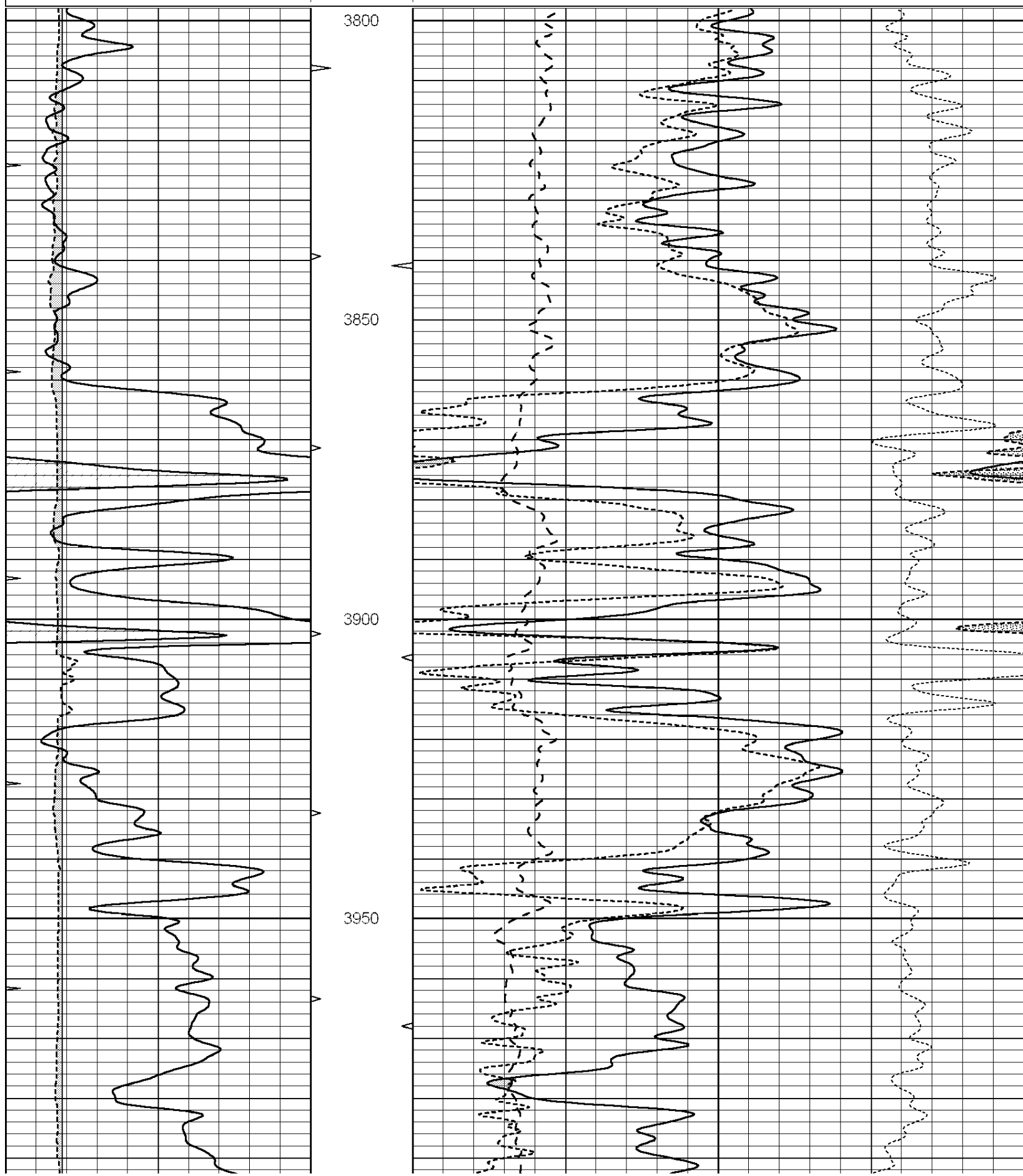
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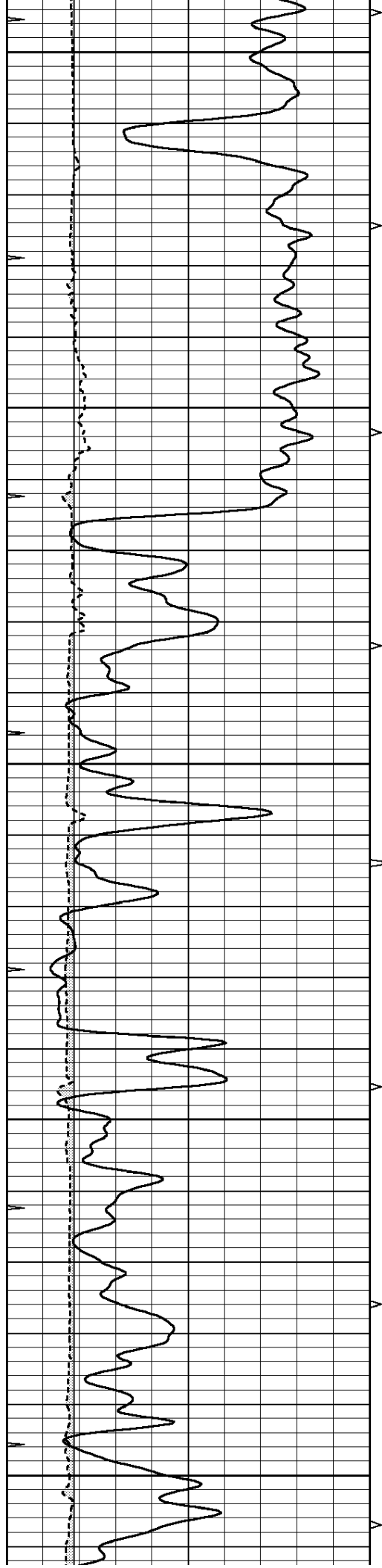
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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: CULLISON, KS. & HWY 54 - SOUTH 1 MILE - WEST 1 MILE - SOUTH 8 MILES - WEST 1/2 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
0	MINMK	20	TBHV	0	PE	10 -0.25 CORRECTION (g/cc) 0.25
			0 (ft3) 10			





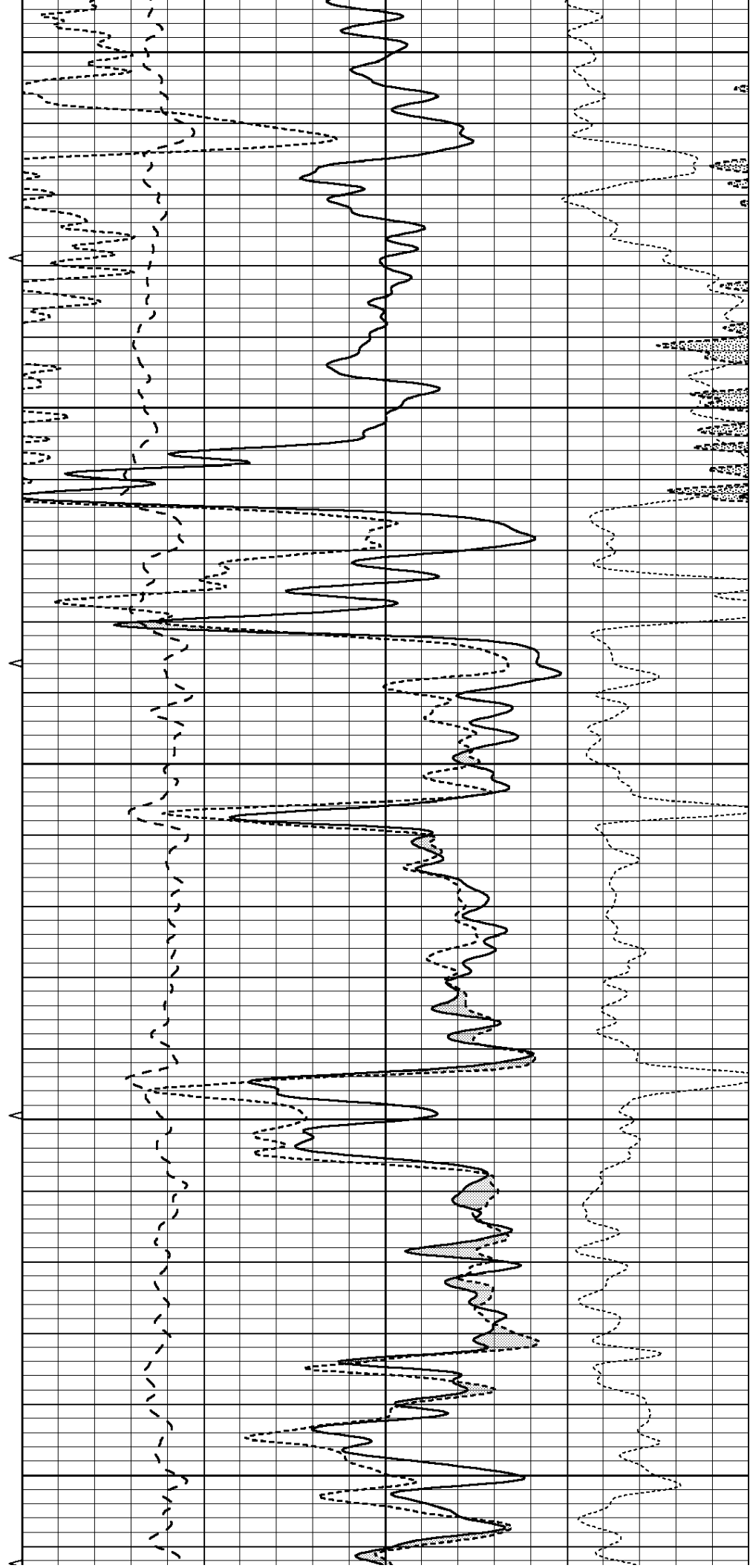
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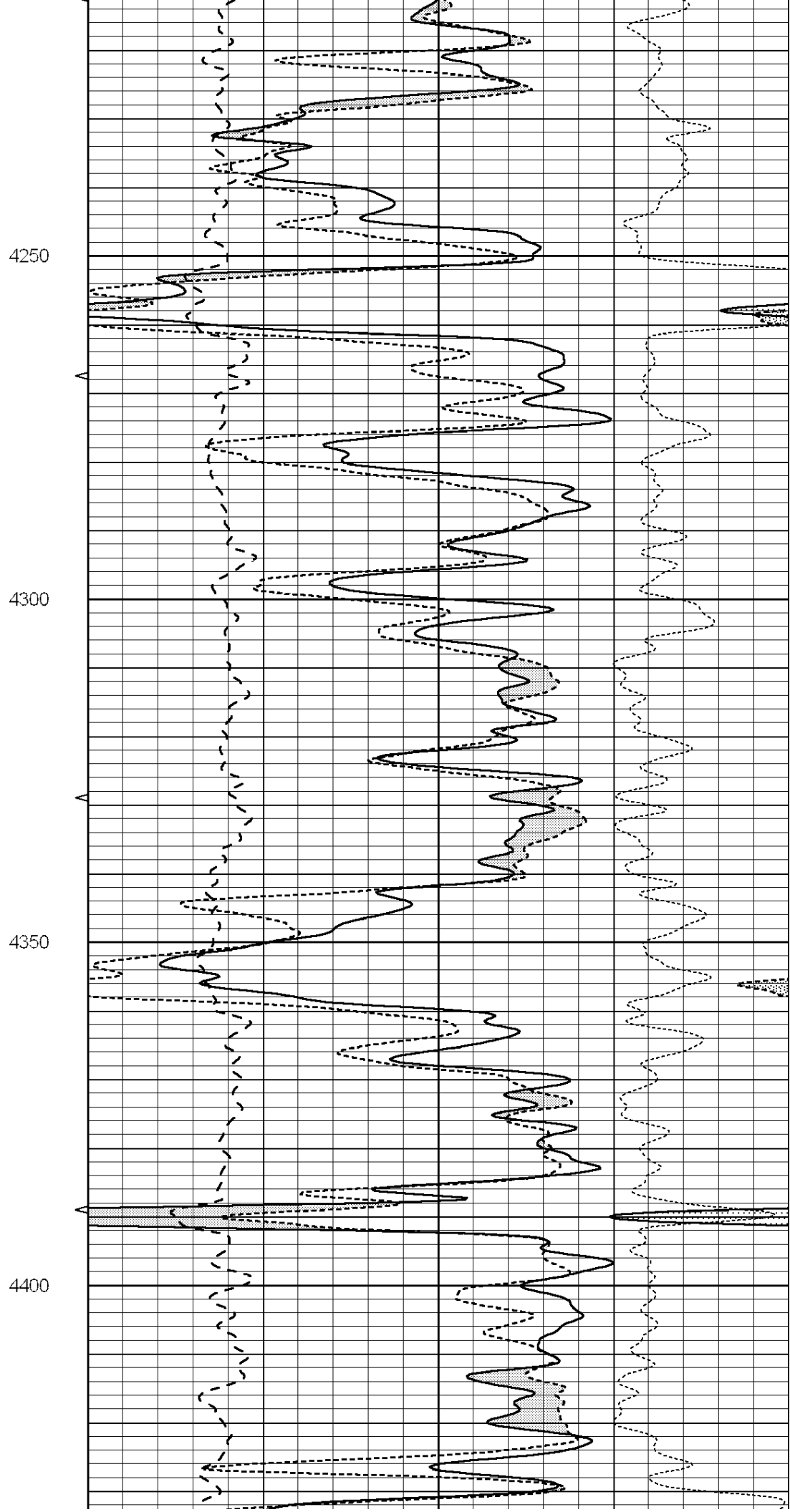
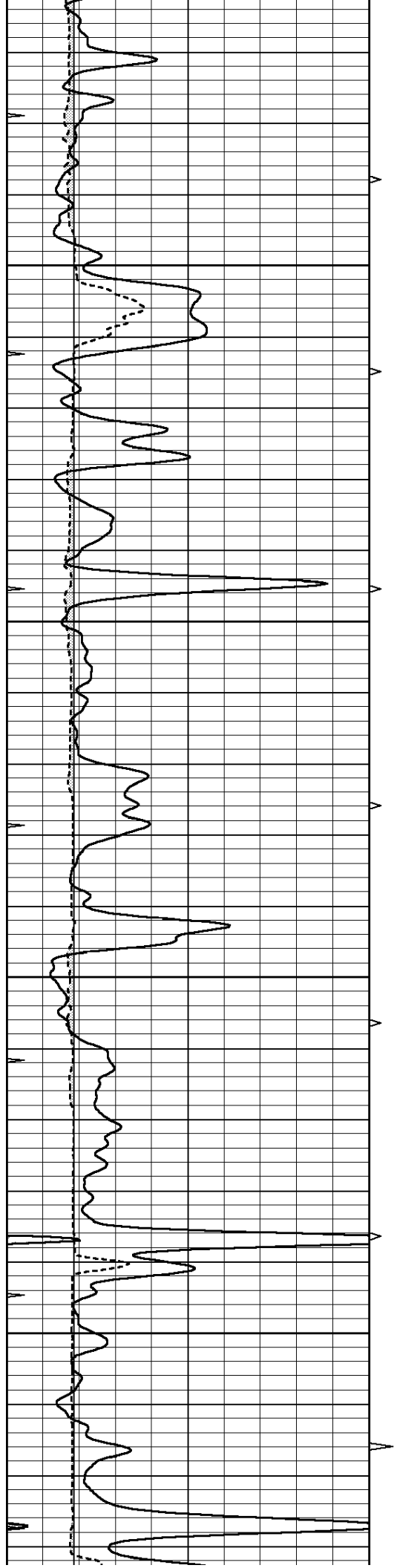
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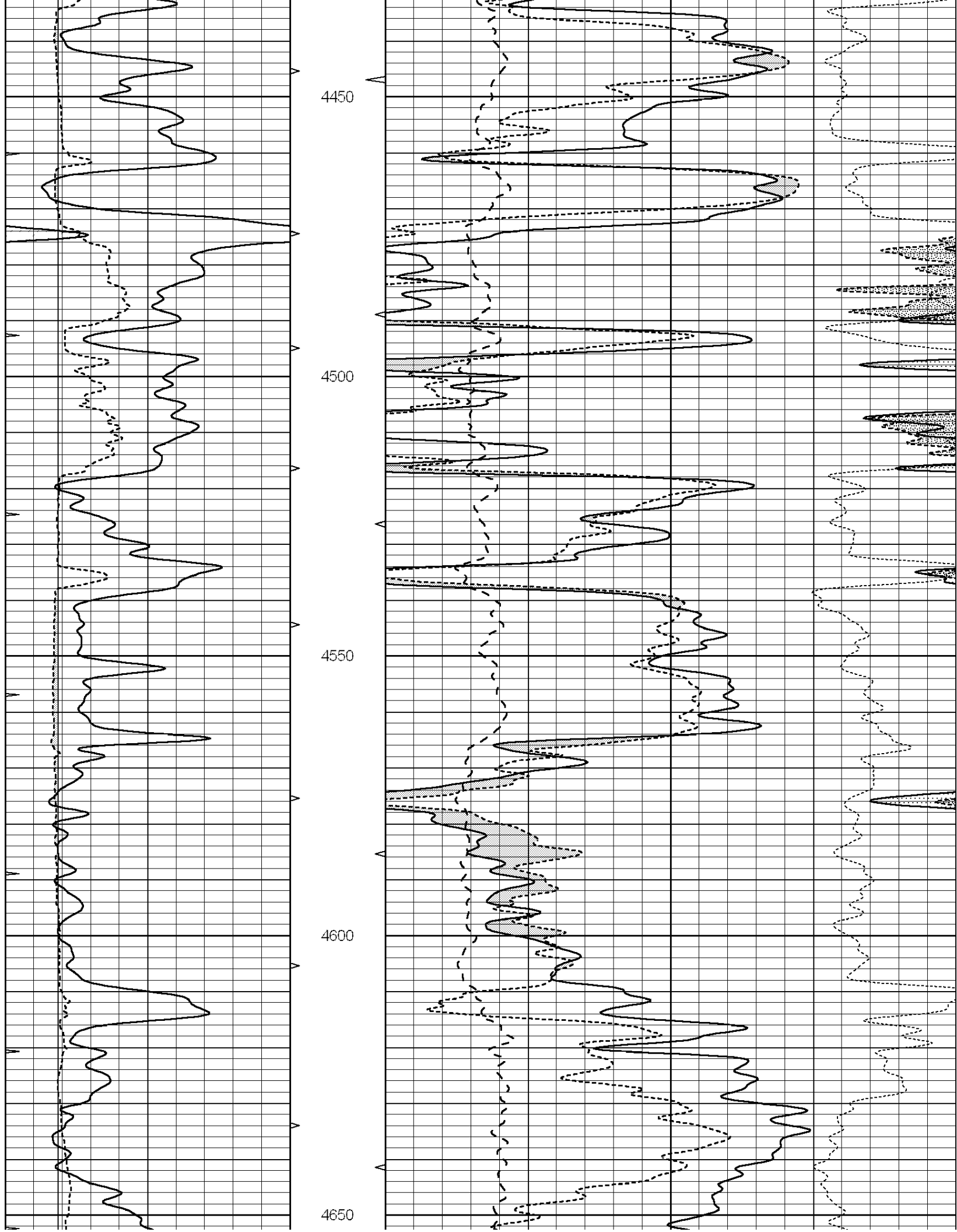
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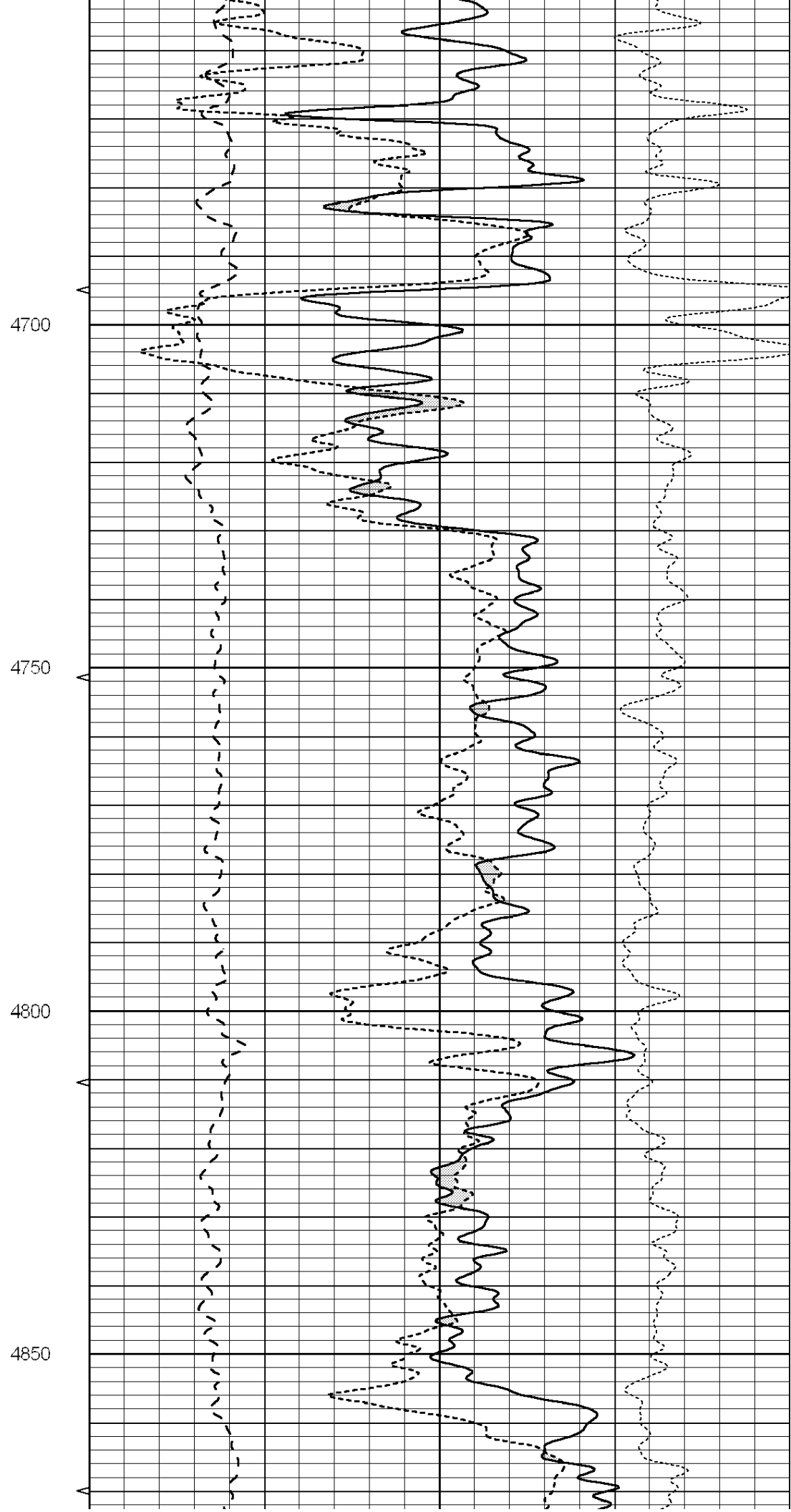
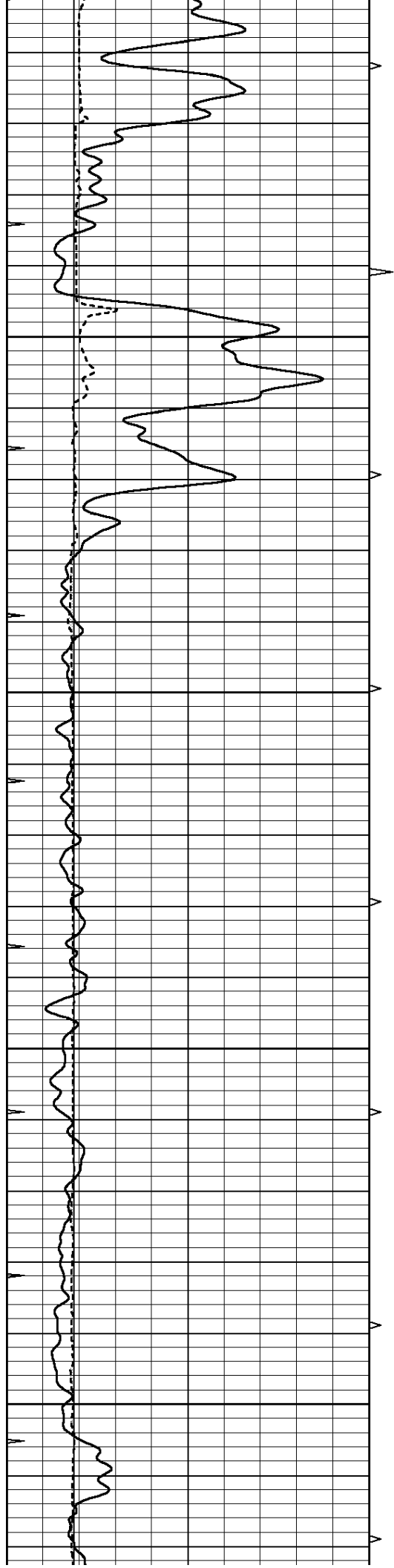
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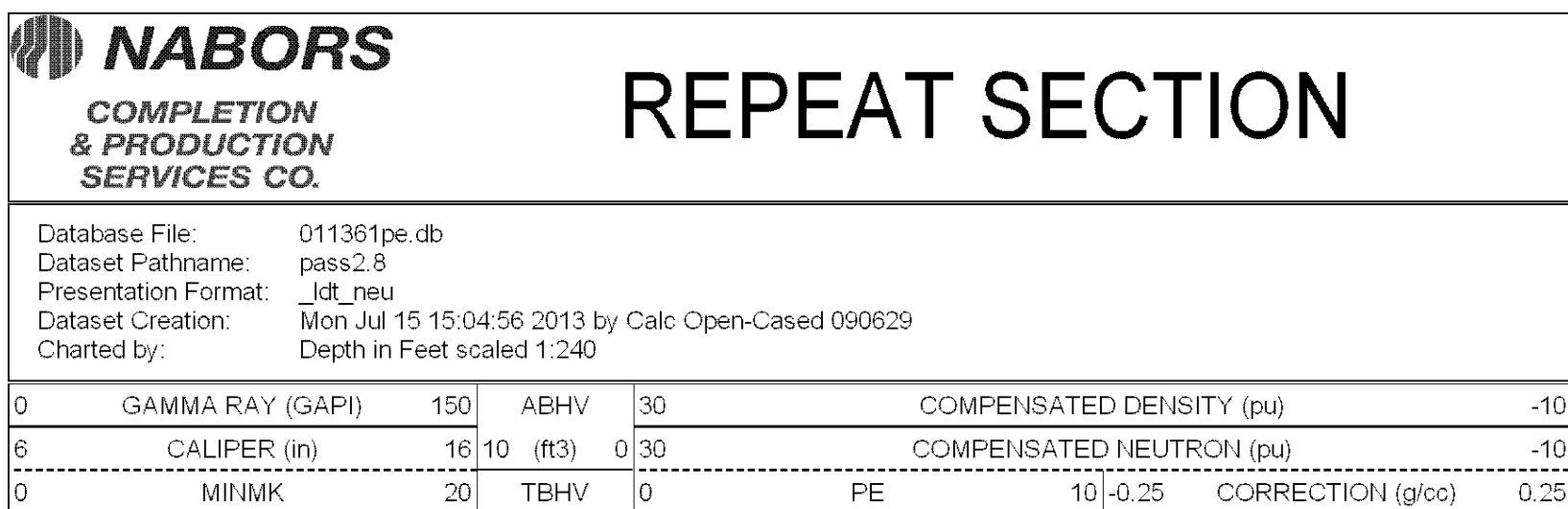
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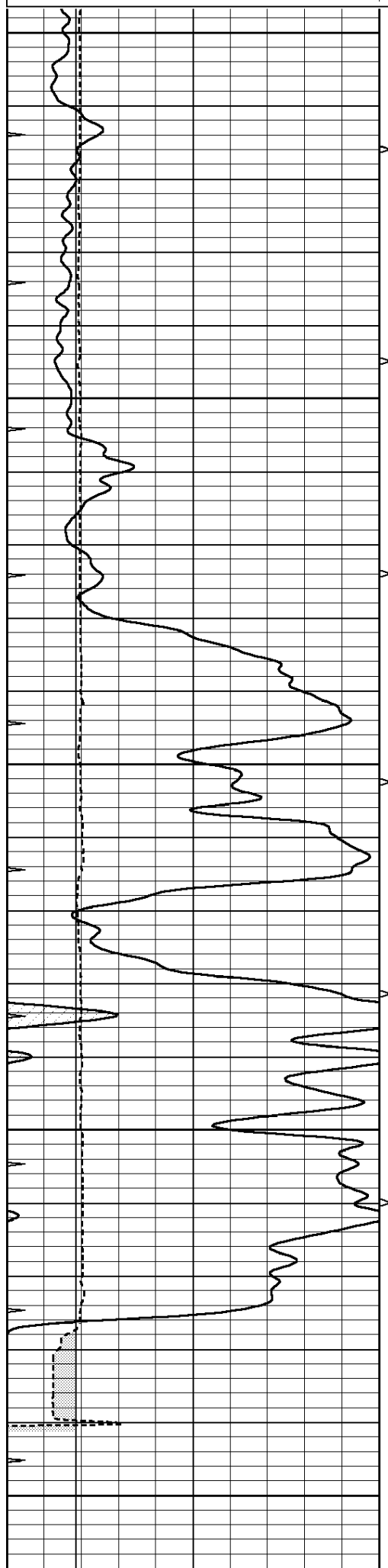








0 (ft3) 10



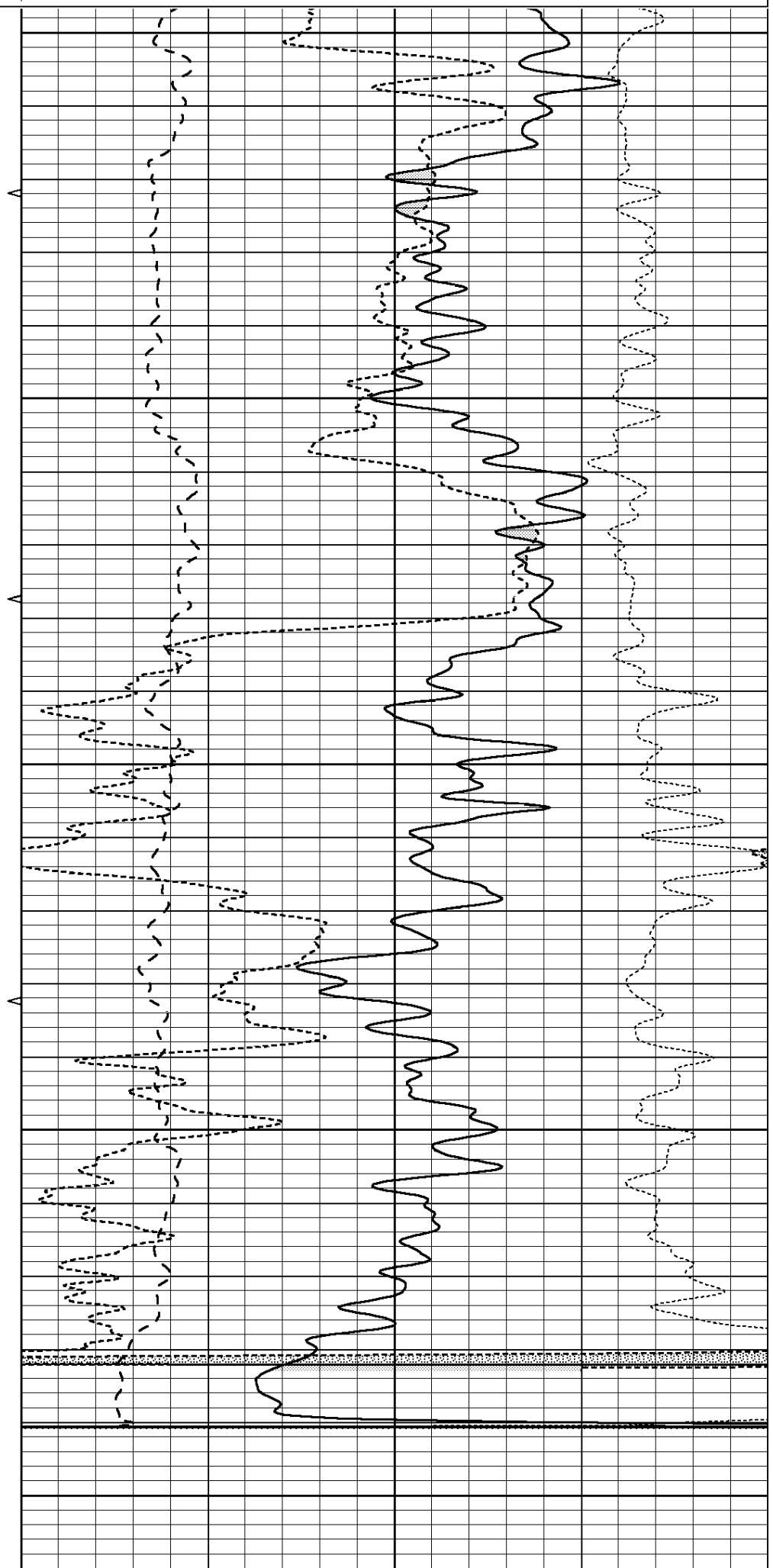
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4850

4900

4950

5000



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	PE	10
			0 (ft3) 10		-0.25	CORRECTION (g/cc) 0.25

Calibration Report						
Database File:	011361pe.db					
Dataset Pathname:	pass3.3.5					
Dataset Creation:	Mon Jul 15 10:40:24 2013 by Calc Open-Cased 090629					

Dual Induction Calibration Report						
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Serial-Model:	PROBE7-DILG
Surface Cal Performed:	Mon Jul 01 07:10:41 2013
Downhole Cal Performed:	Sat Jan 19 19:51:38 2013
After Survey Verification Performed:	Sat Jan 19 19:51:38 2013

Surface Calibration								
Readings			References			Results		
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.793	0.790	V	0.000	400.000	mmho/m	620.000	22.000
Medium	0.992	1.002	V	0.000	464.000	mmho/m	660.000	-30.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.041	0.642	V	0.000	400.000	mmho/m	664.874	-27.011
Medium	0.035	0.802	V	0.000	464.000	mmho/m	604.936	-21.367

Downhole Calibration								
Readings			References			Results		
	Zero	Cal		Zero	Cal		m'	b'
Deep	135384.000	27094.500	mmho/m	135400.000	27082.400	mmho/m	1.000	-19.259
Medium	-47330.100	-9381.740	mmho/m	-47327.100	-9389.280	mmho/m	1.000	-10.154
LL3		7.322	V		1400.000	Ohm-m		
		0.038	V		20.000	Ohm-m		
		-7.273	V		4000.000	mmho-m		

After Survey Verification								
Readings			Targets			Results		
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	135384.000	27094.500	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	-47330.100	-9381.740	mmho/m	1.000	0.000
LL3		0.000	Ohm-m		1400.000	Ohm-m		
		0.000	Ohm-m		20.000	Ohm-m		
		0.000	mmho-m		4000.000	mmho-m		

Litho Density Calibration Report	
Serial: 002	Model: PRB
Performed Mon Apr 02 17:56:53 2012	

Litho Density Calibration						
	Background	Magnesium	Aluminum	Sandstone		
Window 1	872.3	7266.3	2292.6	7931.5		cps
Window 2	822.9	5957.5	1958.0	6389.6		cps
Window 3	670.4	3219.9	1211.9	3388.2		cps
Window 4	201.6	201.1	202.3	204.6		cps
Long Space	0.0	5134.6	1135.0	5566.6		cps

Short Space	1.1	994.2	674.4	1059.2	cps
Rho		1.7100	2.5960	1.3800	g/cc
Pe			2.5700	1.5500	
Rib Angle	: 45.6	Rib Slope	: 1.020	Density/Spine Ratio	: 0.569
Spine Angle	: 75.6	Spine Slope	: 3.888	Spine Intercept	: -18.3
Caliper	Readings	Reference			
Low Ref	1.8	8.4			
High Ref	6.1	14.0			
	Gain: 2.0		Offset: -0.2		
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:	Mon Jul 01 05:22:08 2013				
Calibrator Value:	1.0	GAPI			
Background Reading:	0.0	cps			
Calibrator Reading:	1.0	cps			
Sensitivity:	0.9000	GAPI/cps			