



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

**COMPENSATED
DENSITY/NEUTRON
LOG**

Company	BLUERIDGE PETROLEUM CORPORATION		
Well	TAMMANY #3-29		
Field	SONADOR		
County	NESS		
State	KANSAS		
Location:	Company	BLUERIDGE PETROLEUM CORPORATION	
	Well	TAMMANY #3-29	
	Field	SONADOR	
	County	NESS	State KANSAS
Location:	API # : 15-135-25704-0000		
	1234' FSL & 1756' FEL NW - NE - SW - SE		
	SEC 29 TWP 19S RGE 25W		
	DIL/MEL		
Permanent Datum	GROUND LEVEL		Elevation
Log Measured From	KELLY BUSHING 9' A.G.L.		K.B. 2543
Drilling Measured From	KELLY BUSHING		D.F. 2541
			G.L. 2534
Date	12/10/13		
Run Number	ONE		
Depth Driller	4649		
Depth Logger	4650		
Bottom Logged Interval	4626		
Top Log Interval	3600		
Casing Driller	8 5/8" @ 626'		
Casing Logger	627		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 5400 PPM	
Density / Viscosity	9.3/46		
pH / Fluid Loss	9.0/9.6		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.65 @ 55F		
Rmt @ Meas. Temp	0.49 @ 55F		
Rmc @ Meas. Temp	0.78 @ 55F		
Source of Rmt / Rmc	MEASUREMENT		
Rm @ BHT	.27 @ 129F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	129F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	JIM MUSGROVE	CLINT MUSGROVE	

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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

THANK YOU FOR USING NABORS, HAYS, KS. (785) 628-6395
DIRECTIONS:
NESS CITY, KS. - WEST TO LAIRD ELEVATOR - 1/2 WEST TO J. RD. - SOUTH
TO RD. 60 - 1 WEST - 1/2 NORTH - 1/2 WEST TO CURVE - STAY WEST
FOR 1/2 MILE & NORTH & EAST INTO

Database File:

22108ddn.db

Dataset Pathname:

pass3.1

Presentation Format:

den_neu

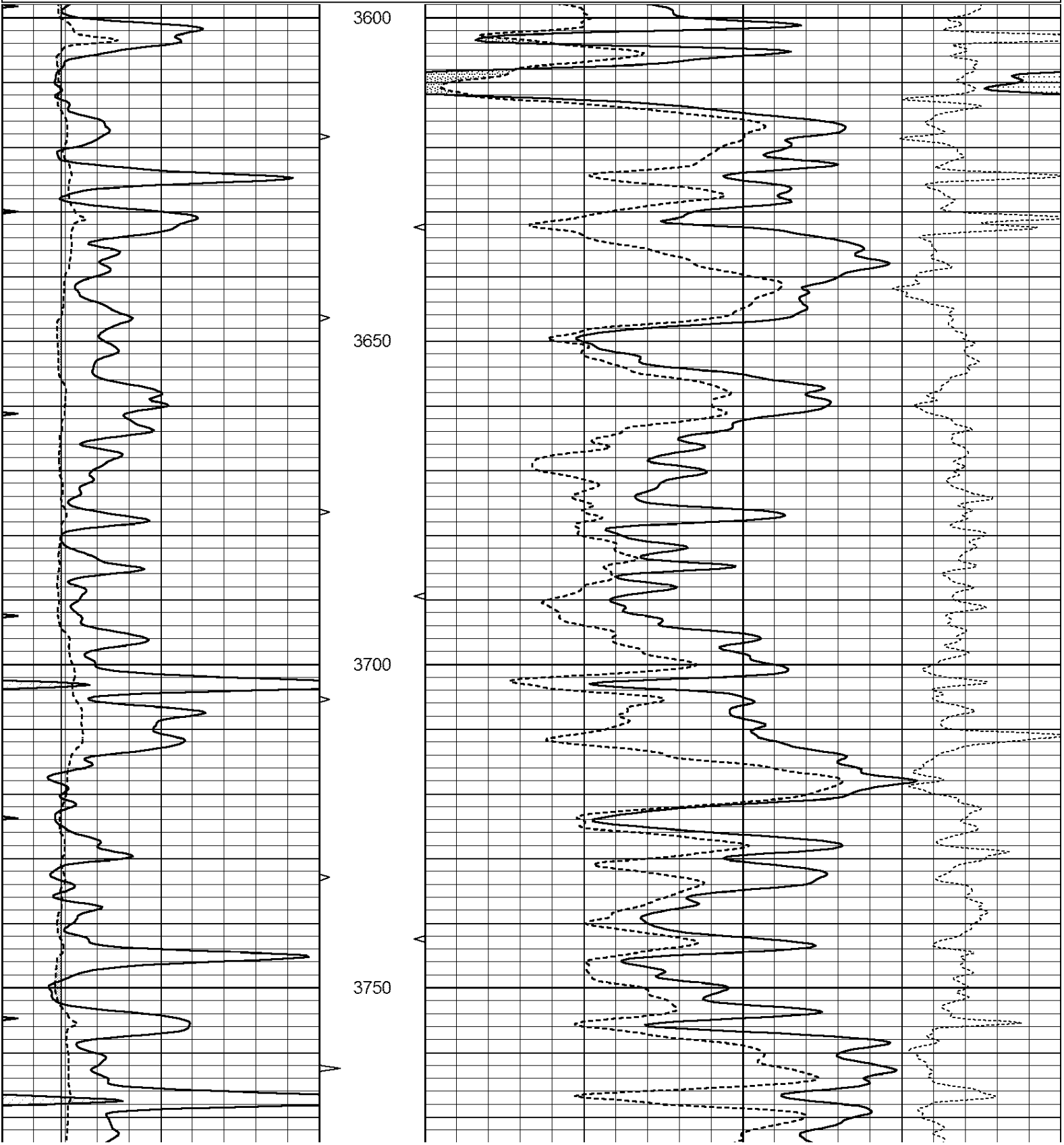
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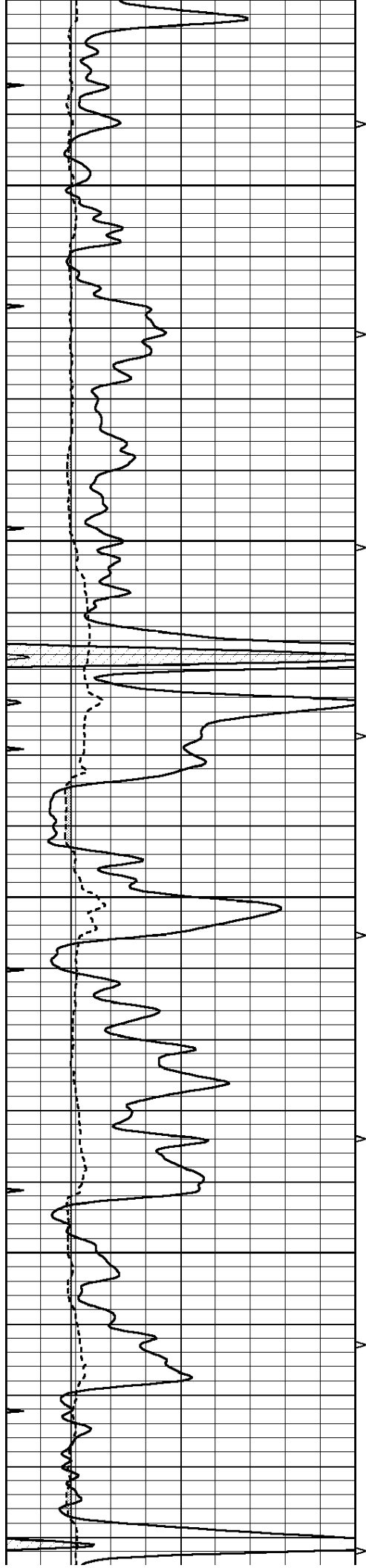
Tue Dec 10 21:01:50 2013 by Calc Open-Cased 090629

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		



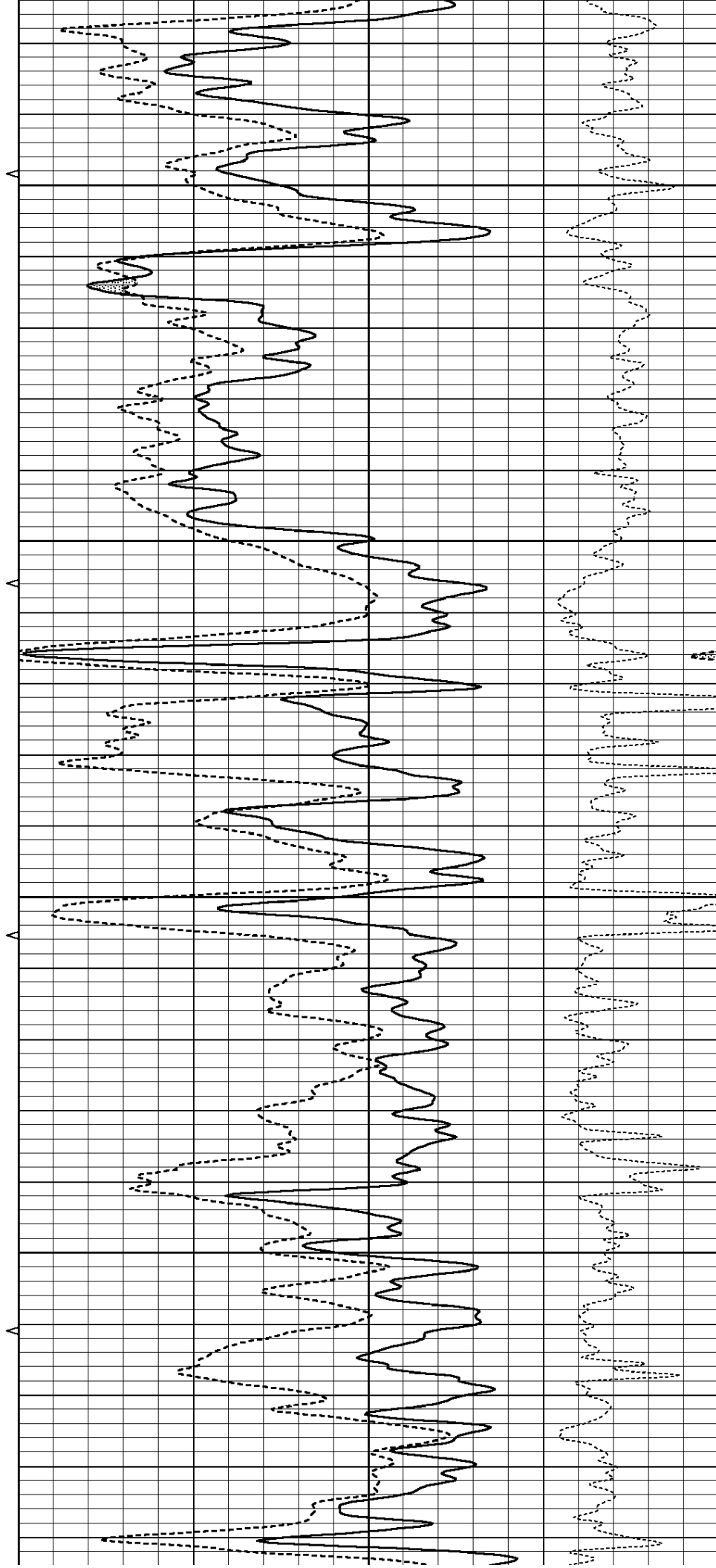


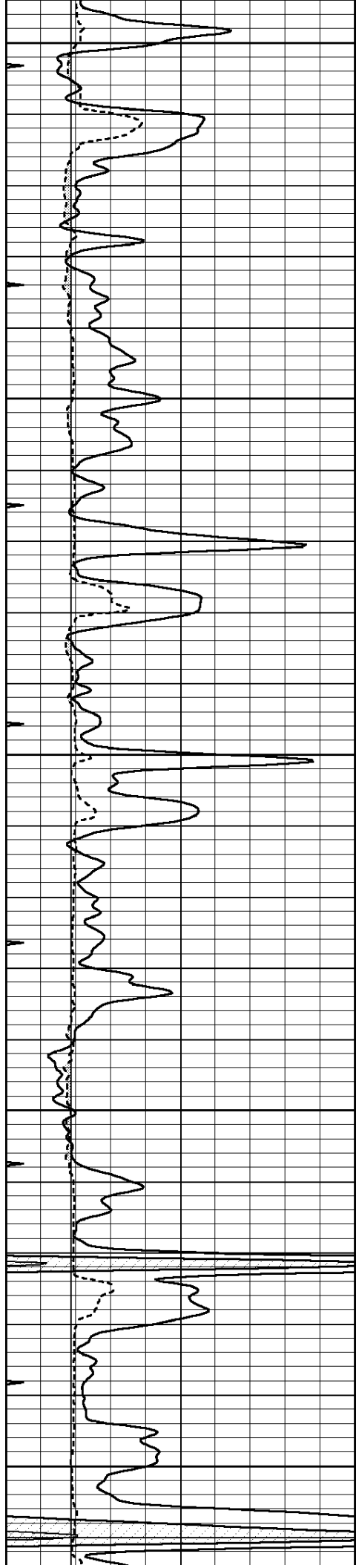
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3850

3900

3950





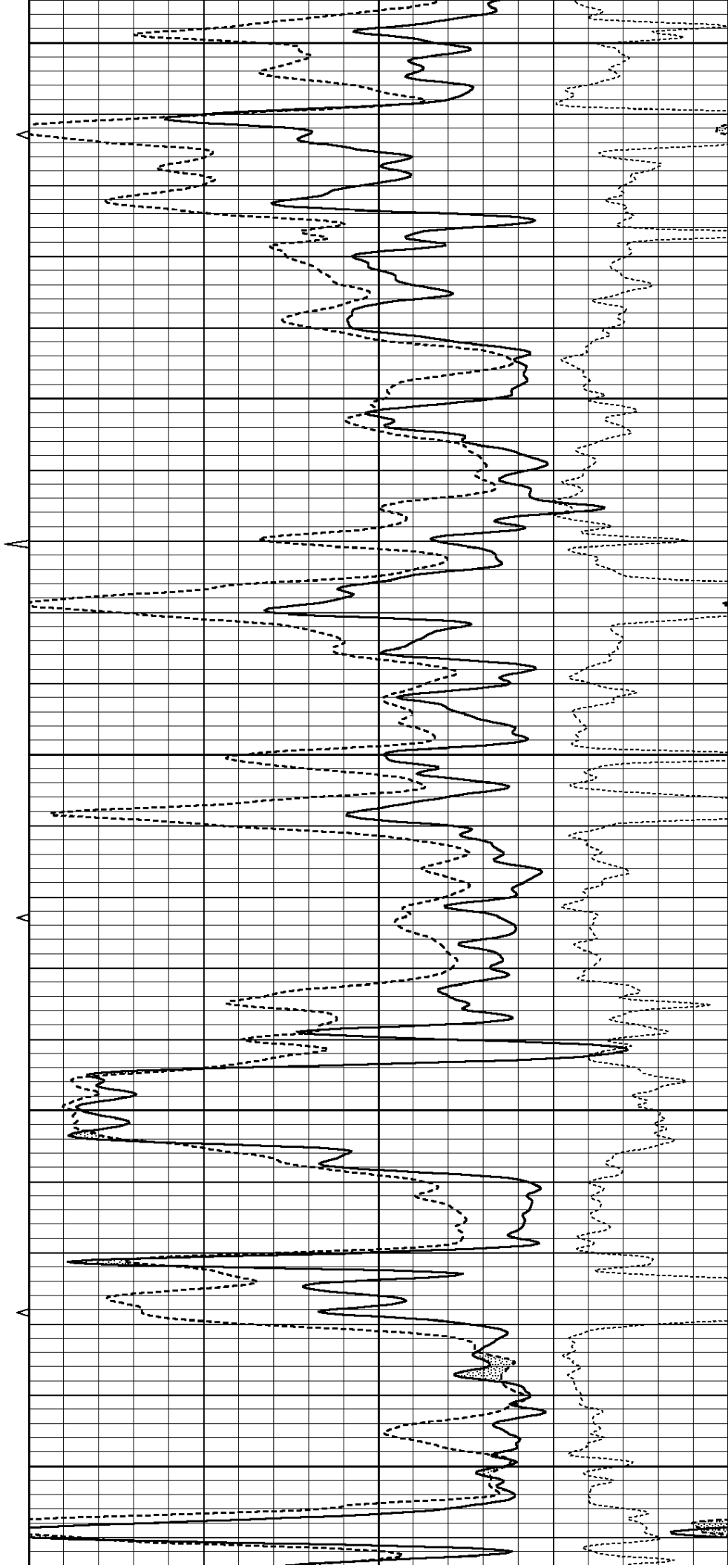
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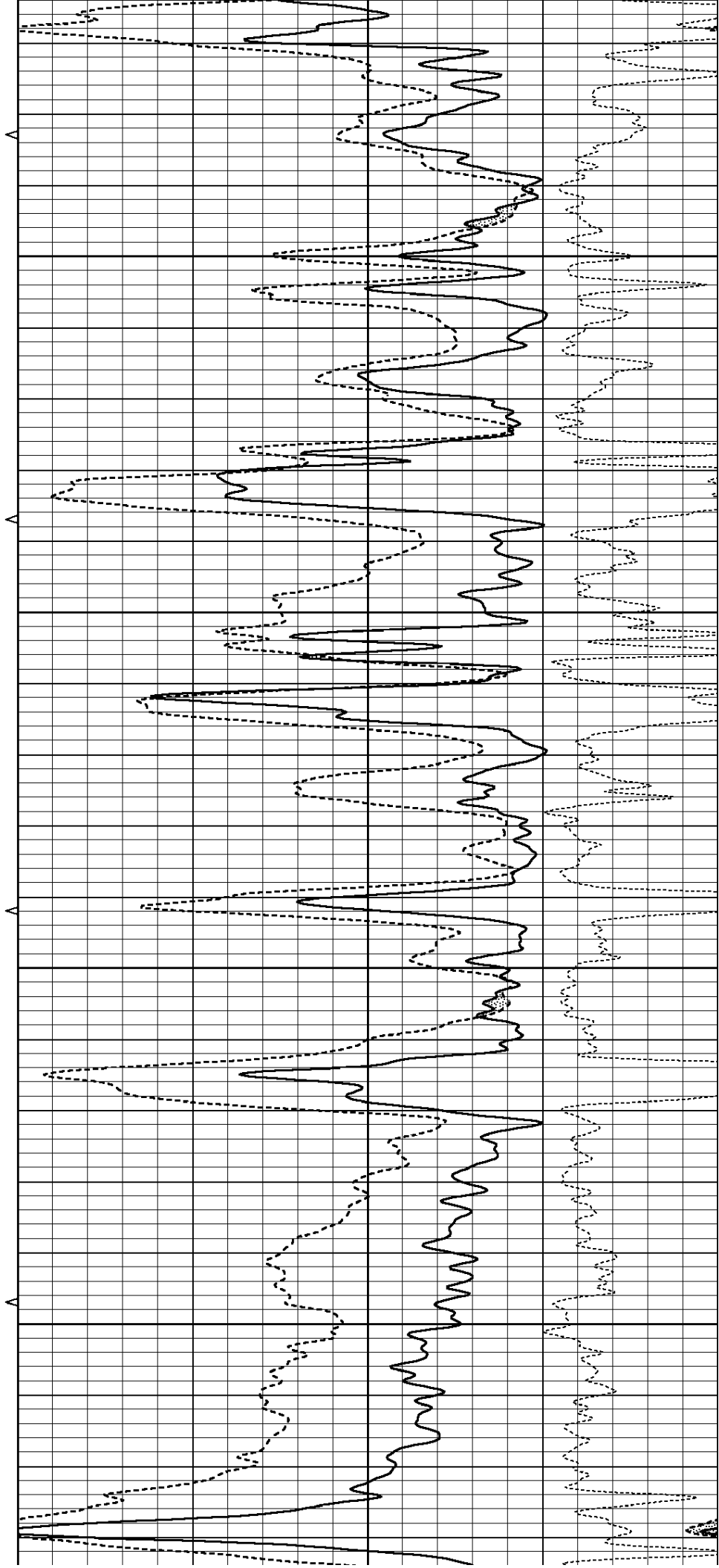
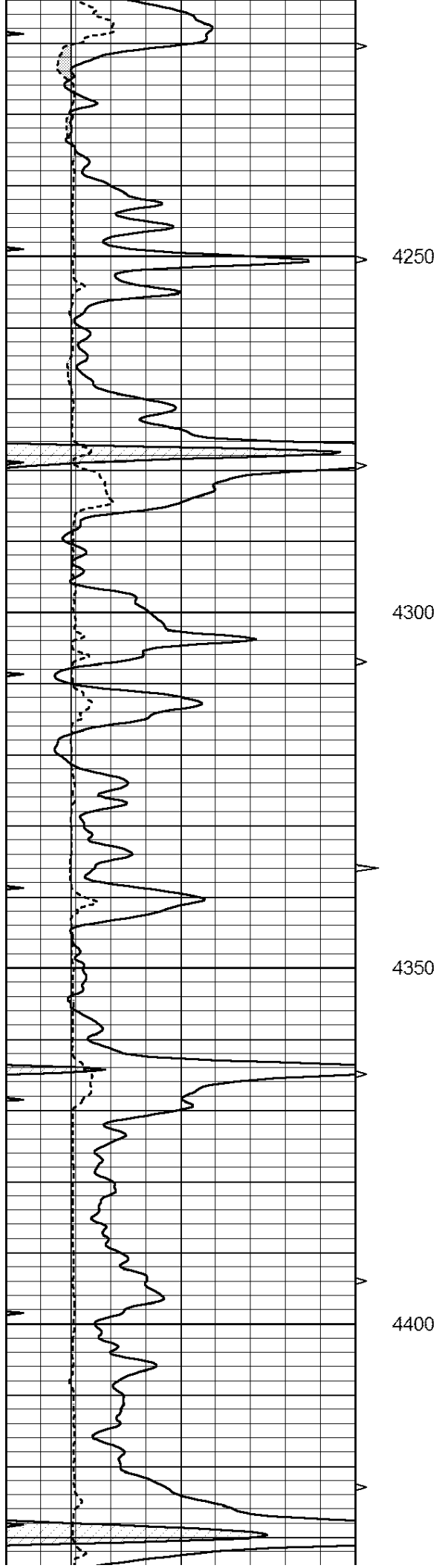
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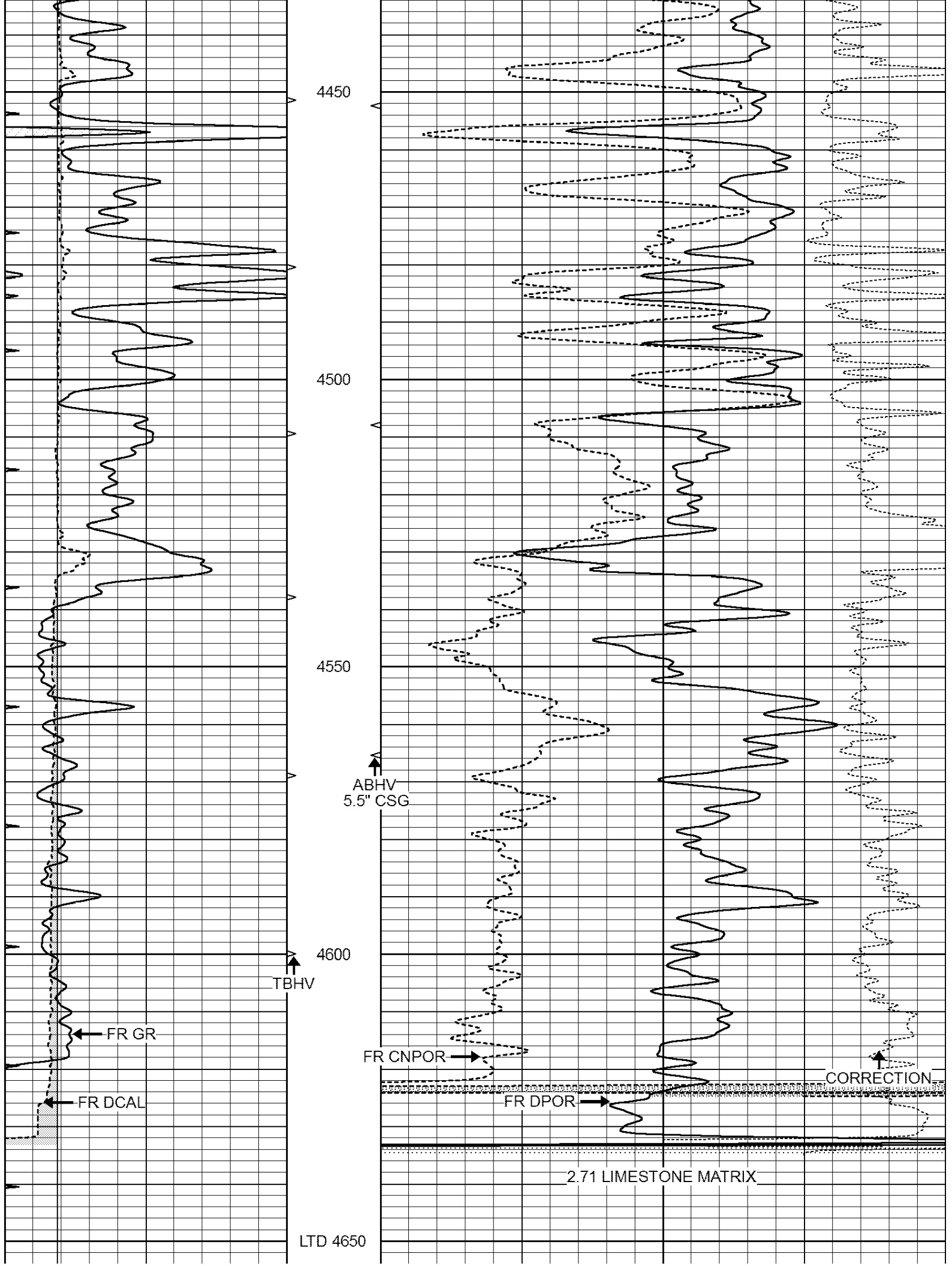
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4150

4200







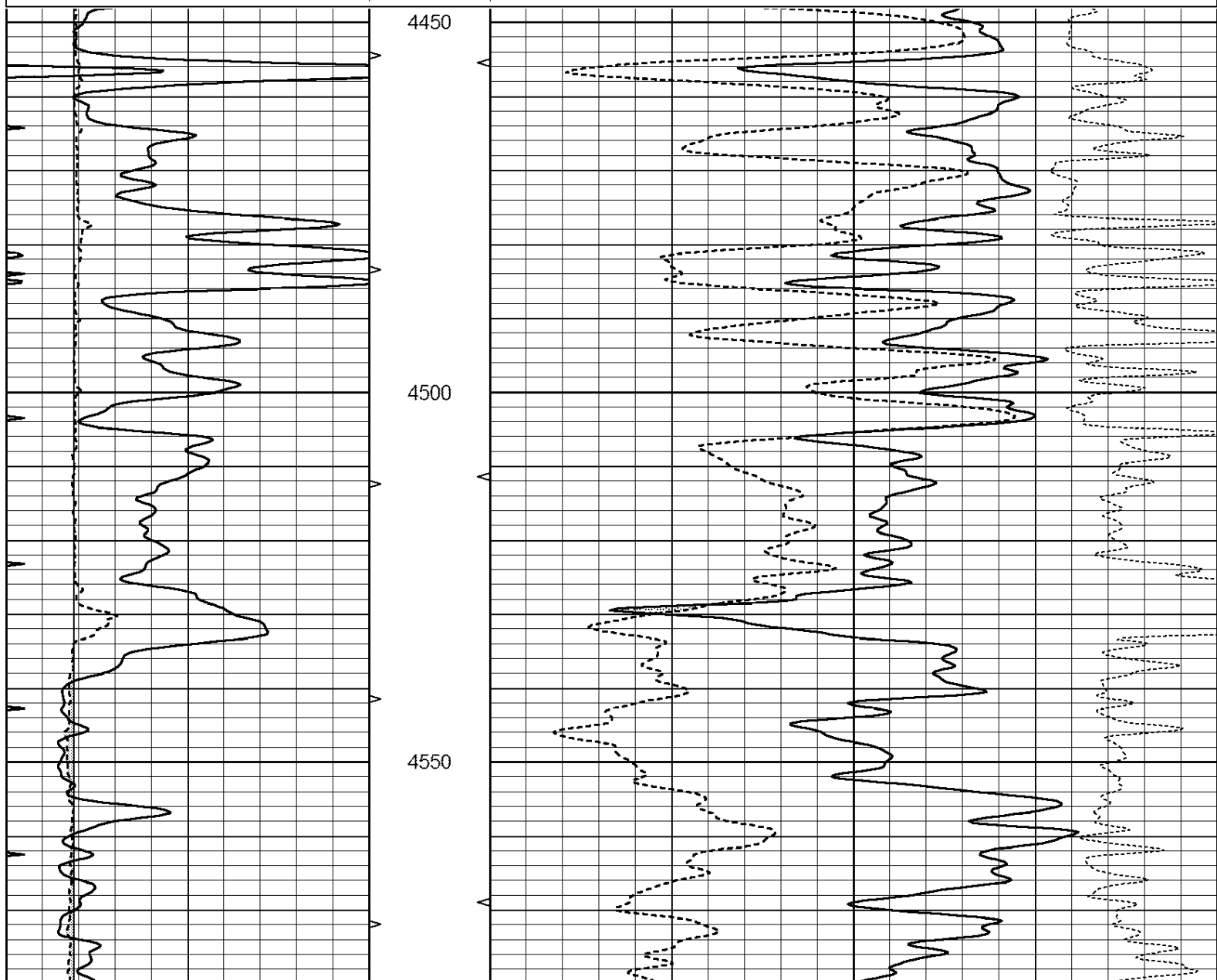
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)			-10			
6	CALIPER (in)	16	10 (ft3)	0	30	COMPENSATED NEUTRON (pu)			-10		
0	MINMK	20	TBHV						-0.25	CORRECTION (g/cc)	0.25
			0 (ft3)						10		

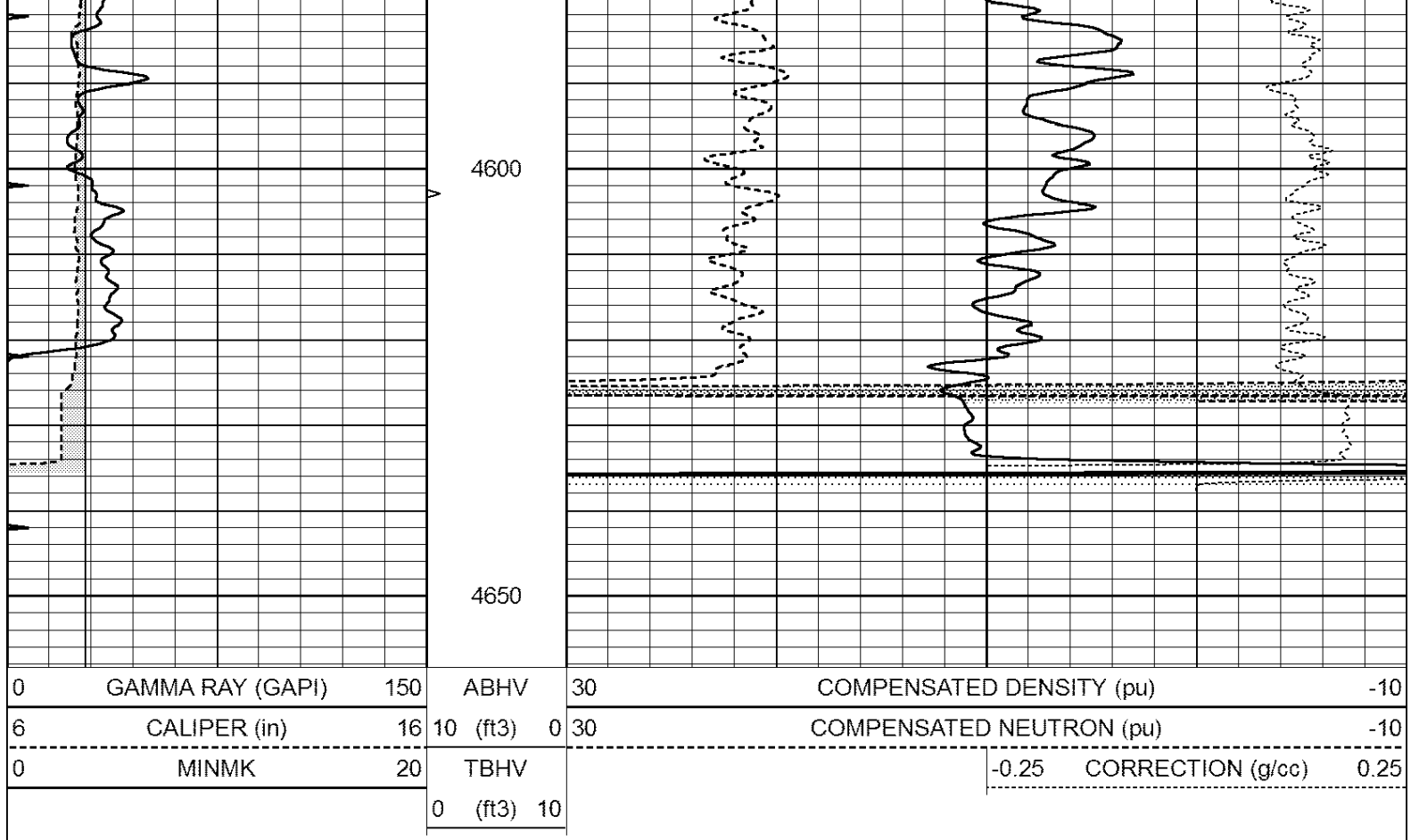


REPEAT SECTION

Database File: 22108ddn.db
 Dataset Pathname: pass2.1
 Presentation Format: den_neu
 Dataset Creation: Tue Dec 10 20:42:39 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: 22108ddn.db
 Dataset Pathname: pass2.1
 Dataset Creation: Tue Dec 10 20:42:39 2013 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model: PROBE8-DILG
 Surface Cal Performed: Fri Aug 01 06:33:19 2008
 Downhole Cal Performed: Mon Jul 28 11:08:27 2008
 After Survey Verification Performed: Mon Jul 28 11:08:27 2008

Surface Calibration

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.015	0.648	V	0.000	400.000	mmho/m	632.616	-9.730
Medium	0.029	0.796	V	0.000	464.000	mmho/m	605.049	-17.680
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.017	0.657	V	0.000	400.000	mmho/m	625.153	-10.619
Medium	0.016	0.757	V	0.000	464.000	mmho/m	625.992	-9.739

Downhole Calibration

Readings				References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	2.011	405.777	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	7.590	503.393	mmho/m	1.000	0.000
LL3		7.500	V		1500.000	Ohm-m		
		0.000	V		20.000	Ohm-m		
		-7.200	V		3800.000	mmho-m		

After Survey Verification											
Readings				Targets				Results			
		Zero	Cal			Zero	Cal			m'	b'
Deep		0.000	0.000	mmho/m		0.000	0.000	mmho/m		0.000	0.000
Medium		0.000	0.000	mmho/m		0.000	0.000	mmho/m		0.000	0.000
LL3			1.000	Ohm-m			1.000	Ohm-m			
			0.000	Ohm-m			0.000	Ohm-m			
			1.000	mmho-m			1.000	mmho-m			

Compensated Density Calibration Report										
Serial-Model:					GEAR4-GEARHART					
Source / Verifier:					143 / 143					
Master Calibration Performed:					Wed Sep 18 03:03:09 2013					
Before Survey Verification Performed:										
After Survey Verification Performed:										

Master Calibration										
Density				Far Detector			Near Detector			
Magnesium		1.710	g/cc			1075.98		532.39	cps	
Aluminum		2.560	g/cc			286.51		422.88	cps	
Spine Angle = 80.13				Density/Spine Ratio = 0.633						
Size				Reading						
Small Ring		8.00	in			3.21	V			
Large Ring		14.00	in			5.46	V			

Before Survey Verification										
Target				Measured						
				g/cc						
				g/cc						
				g/cc						

After Survey Verification										
Target				Measured						
				g/cc						
				g/cc						
				g/cc						

Compensated Neutron Calibration Report										
Serial Number:					6I					
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			

PRE-SURVEY VERIFICATION										
Detector			Readings		Measured		Target			
1)	Short Space			cps						
	Long Space			cps		pu	pu			
2)	Short Space			cps						
	Long Space			cps		pu				

3)	Short Space Long Space	cps cps	pu	
POST-SURVEY VERIFICATION				
	Detector	Readings	Measured	Target
1)	Short Space Long Space	cps cps	pu	pu
2)	Short Space Long Space	cps cps	pu	pu
3)	Short Space Long Space	cps cps	pu	pu
Gamma Ray Calibration Report				
	Serial Number: Tool Model: Performed:	GR6 OPEN Fri Nov 29 08:34:37 2013		
	Calibrator Value:	150.0	GAPI	
	Background Reading: Calibrator Reading:	0.0 276.0	cps cps	
	Sensitivity:	0.6035	GAPI/cps	