



**COMPLETION
& PRODUCTION
SERVICES CO.**

**COMPENSATED
DENSITY / NEUTRON
LOG**

Company	RITCHIE EXPLORATION, INC.		
Well	BAKER 36 D #1		
Field	AMERICAN BEAUTY		
County	LOGAN	State	KANSAS
Location:	2015' FSL & 440' FEL E2 - NE - SE		Other Services
	SEC 36	TWP 15S	RGE 35W
Permanent Datum	GROUND LEVEL		Elevation
Log Measured From	KELLY BUSHING 5' A.G.L.		K.B. 3059
Drilling Measured From	KELLY BUSHING		D.F. 3057
			G.L. 3054
Date	12-11-14		
Run Number	ONE		
Depth Driller	4835		
Depth Logger	4832		
Bottom Logged Interval	4808		
Top Log Interval	3400		
Casing Driller	8 5/8 @ 219'		
Casing Logger	214'		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 7,600 PPM	
Density / Viscosity	9.2 / 62		
pH / Fluid Loss	9.5 / 8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.75 @ 80F		
Rmf @ Meas. Temp	0.56 @ 80F		
Rmc @ Meas. Temp	0.90 @ 80F		
Source of Rmf / Rmc	MEASURED		
Rm @ BHT	0.49 @ 123F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	123F		
Equipment Number	3802		
Location	HAYS, KS.		
Recorded By	IAN MABB		
Witnessed By	MAX LOVELY		

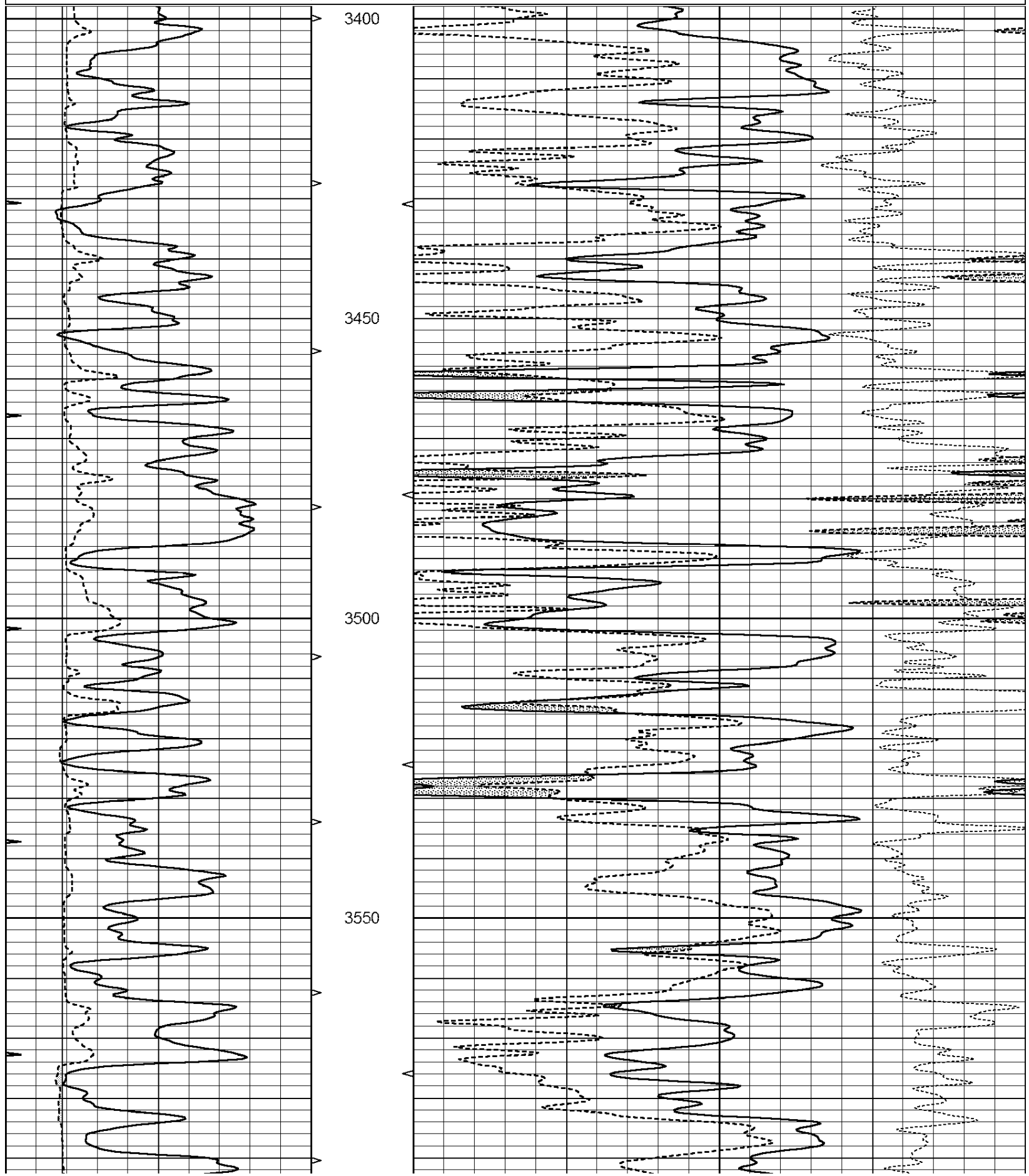
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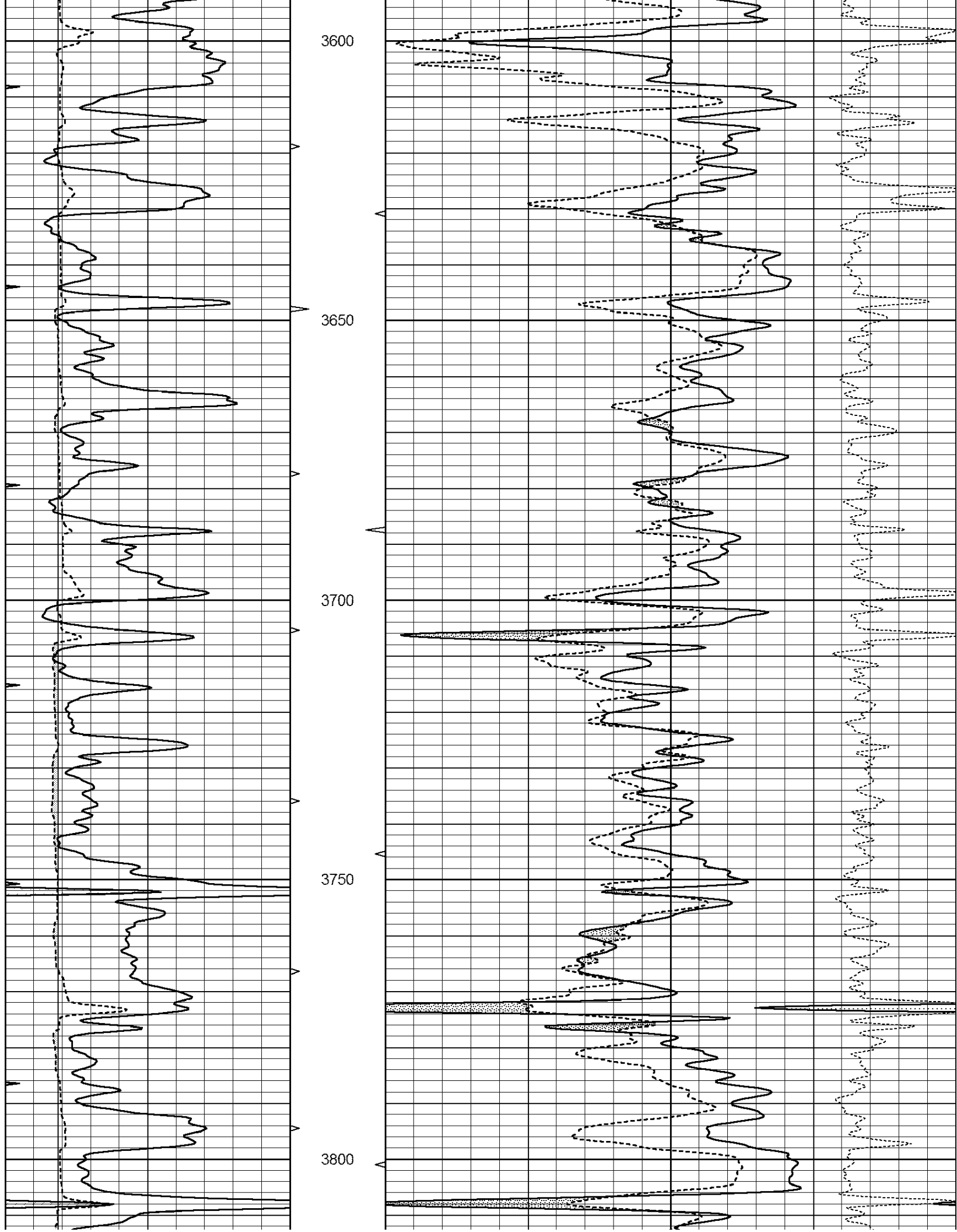
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

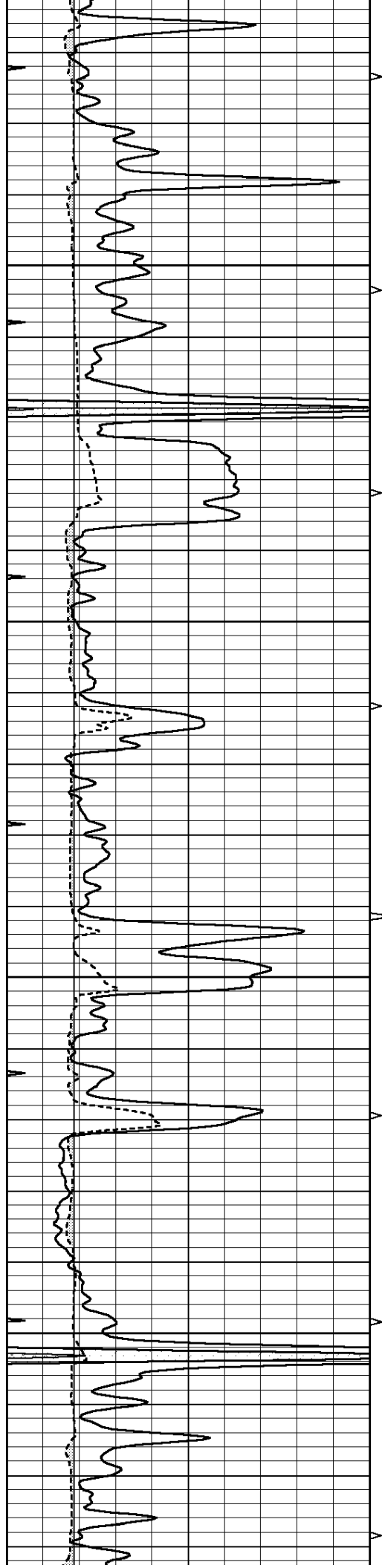
Comments

NABORS COMPLETION & PRODUCTION SERVICES
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: PENCE, KS. - 3 1/2 MILES NORTH WEST INTO 1/2 MILE - SOUTH THROUGH CATTLE GUARD
& THEN WEST

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





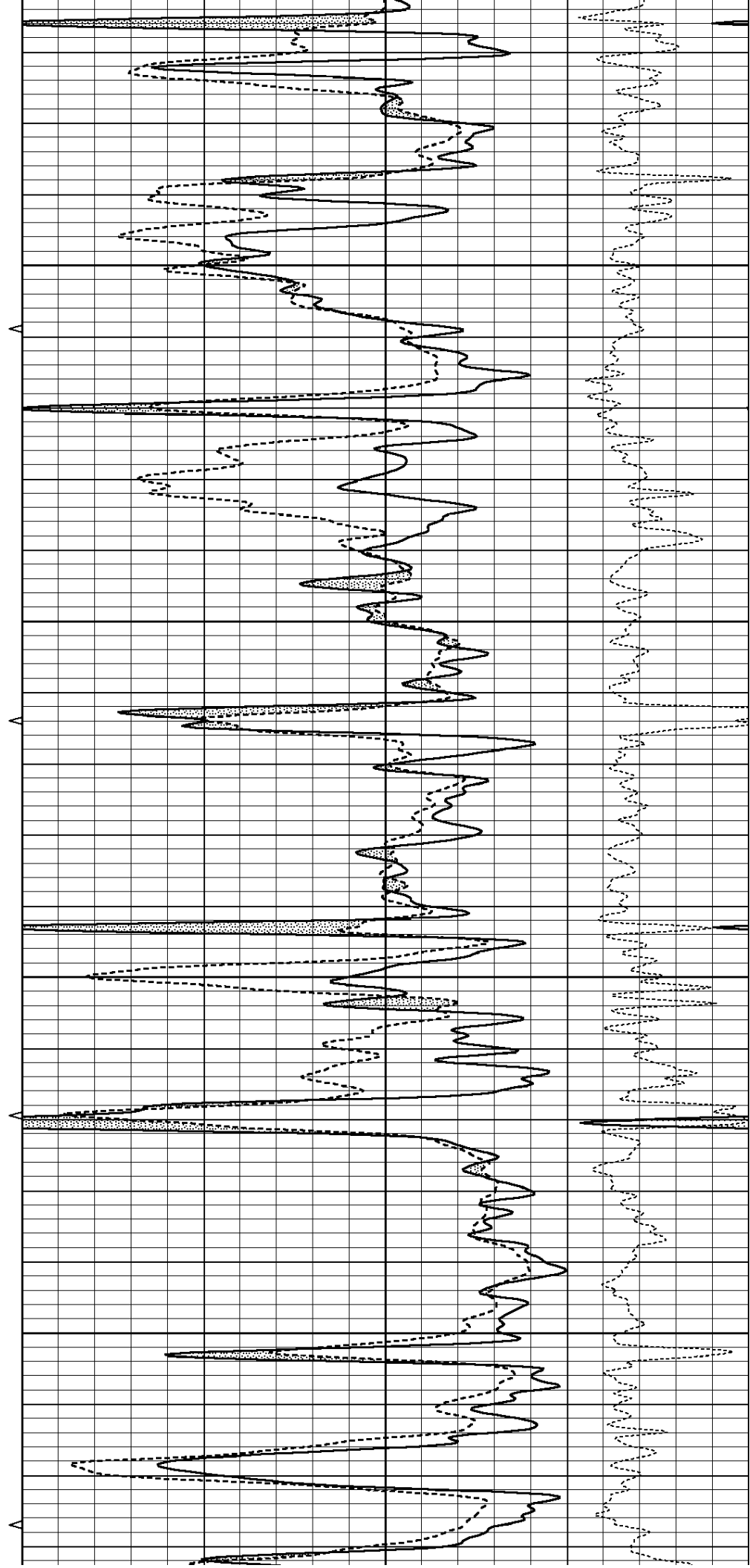


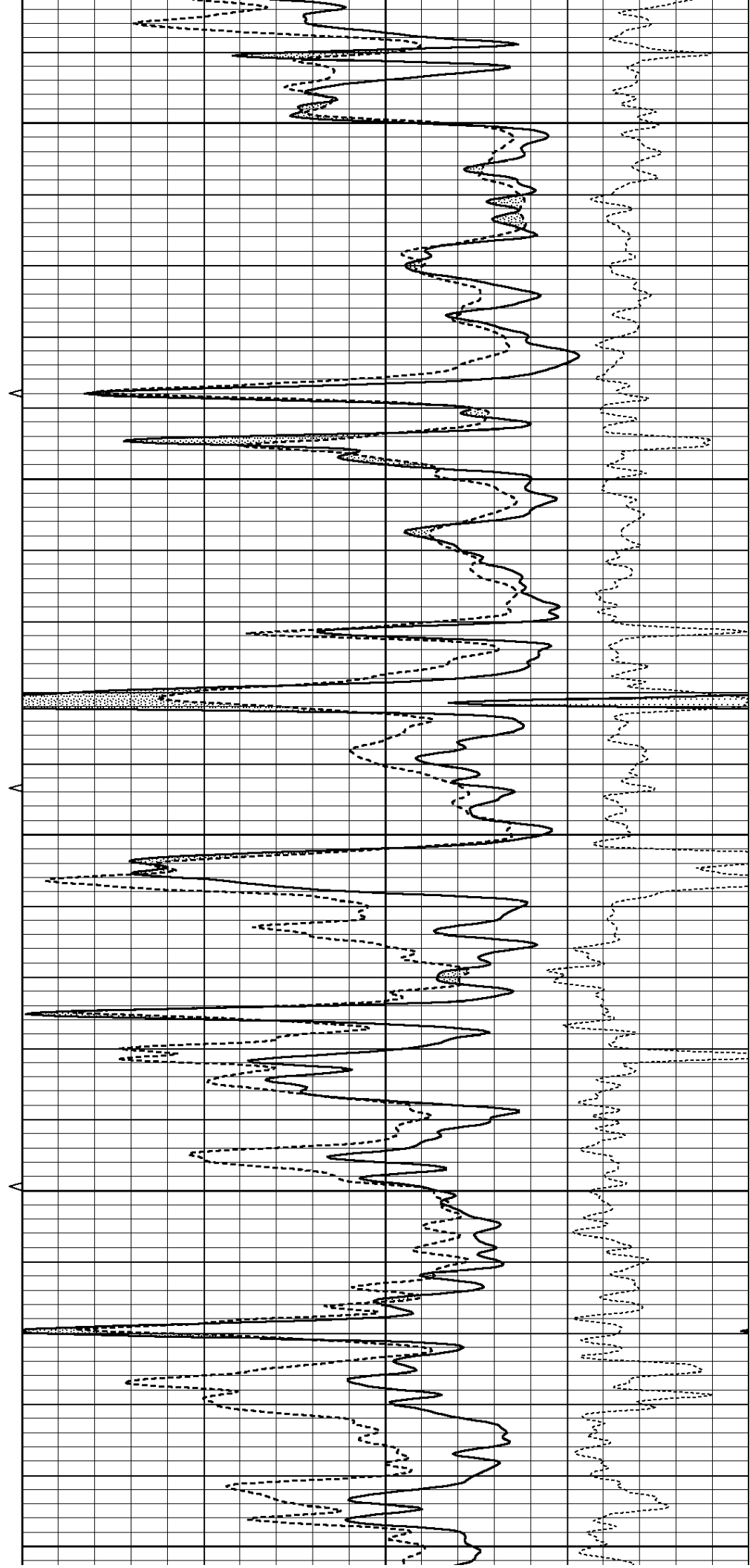
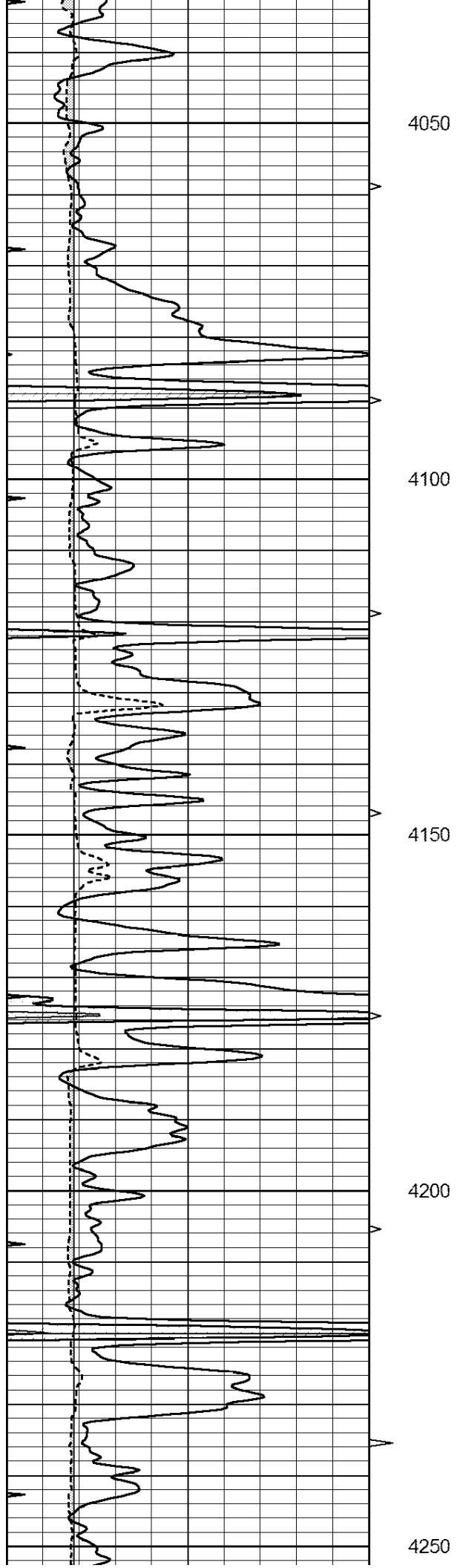
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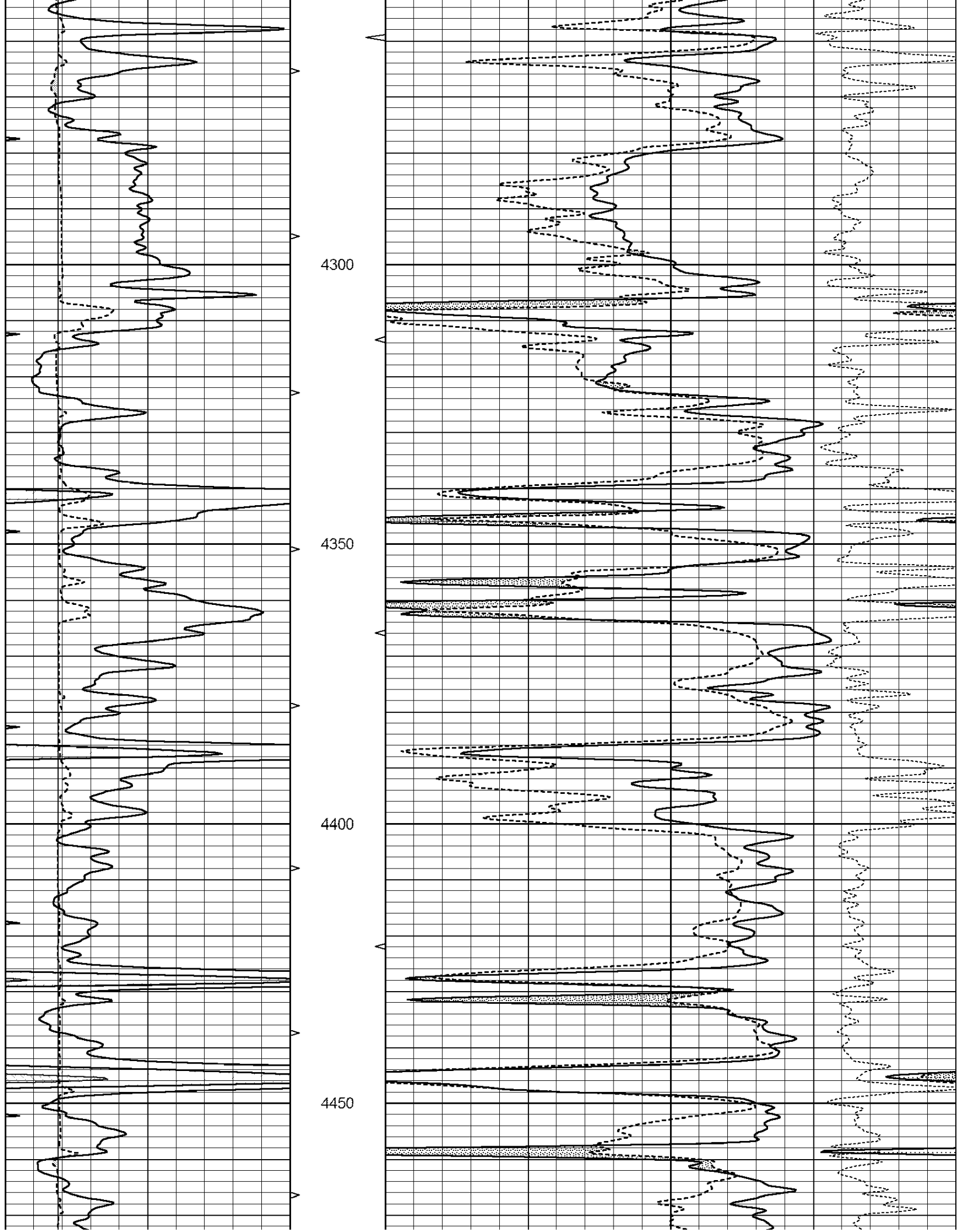
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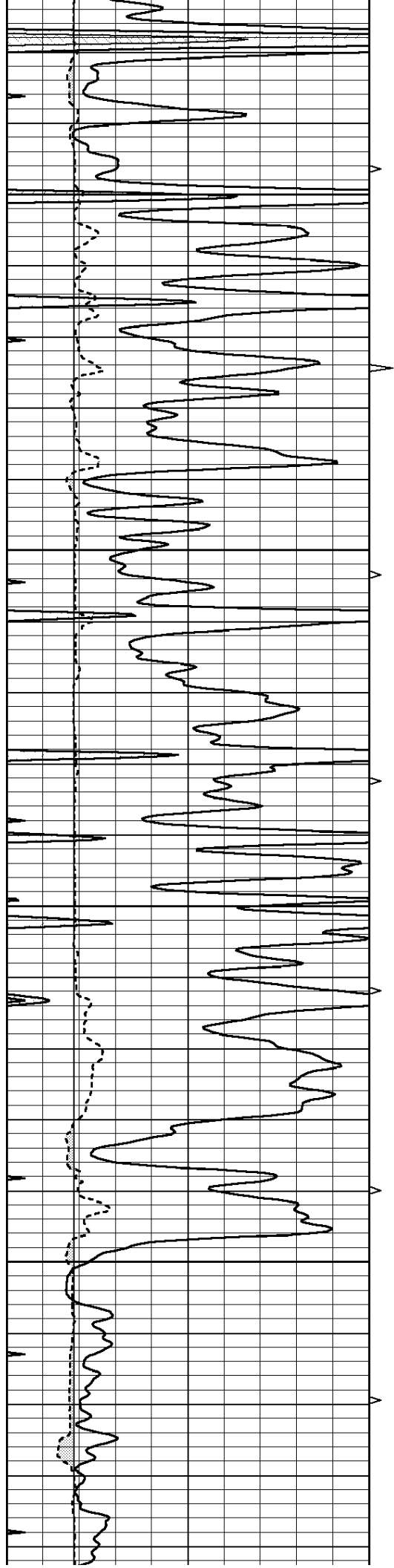
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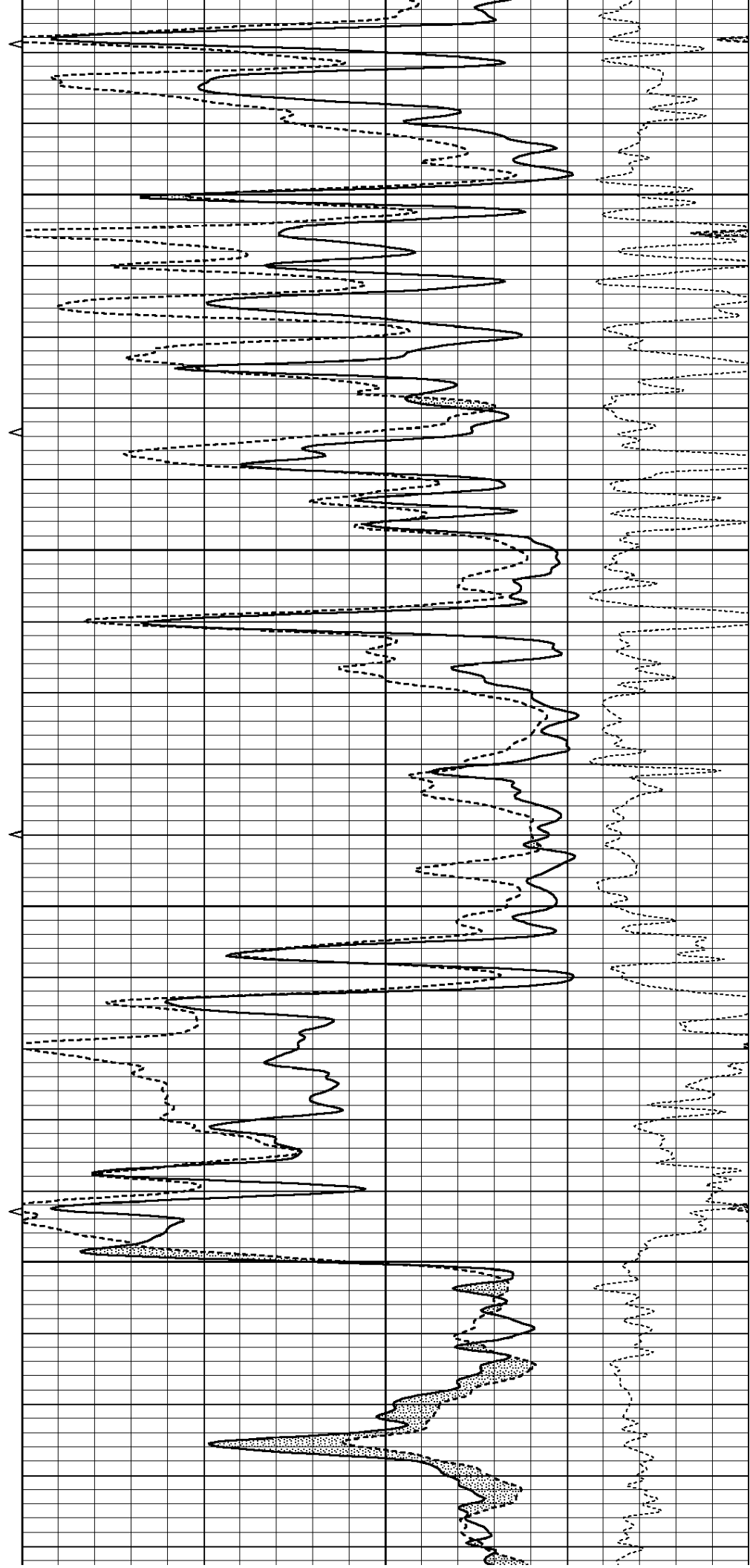


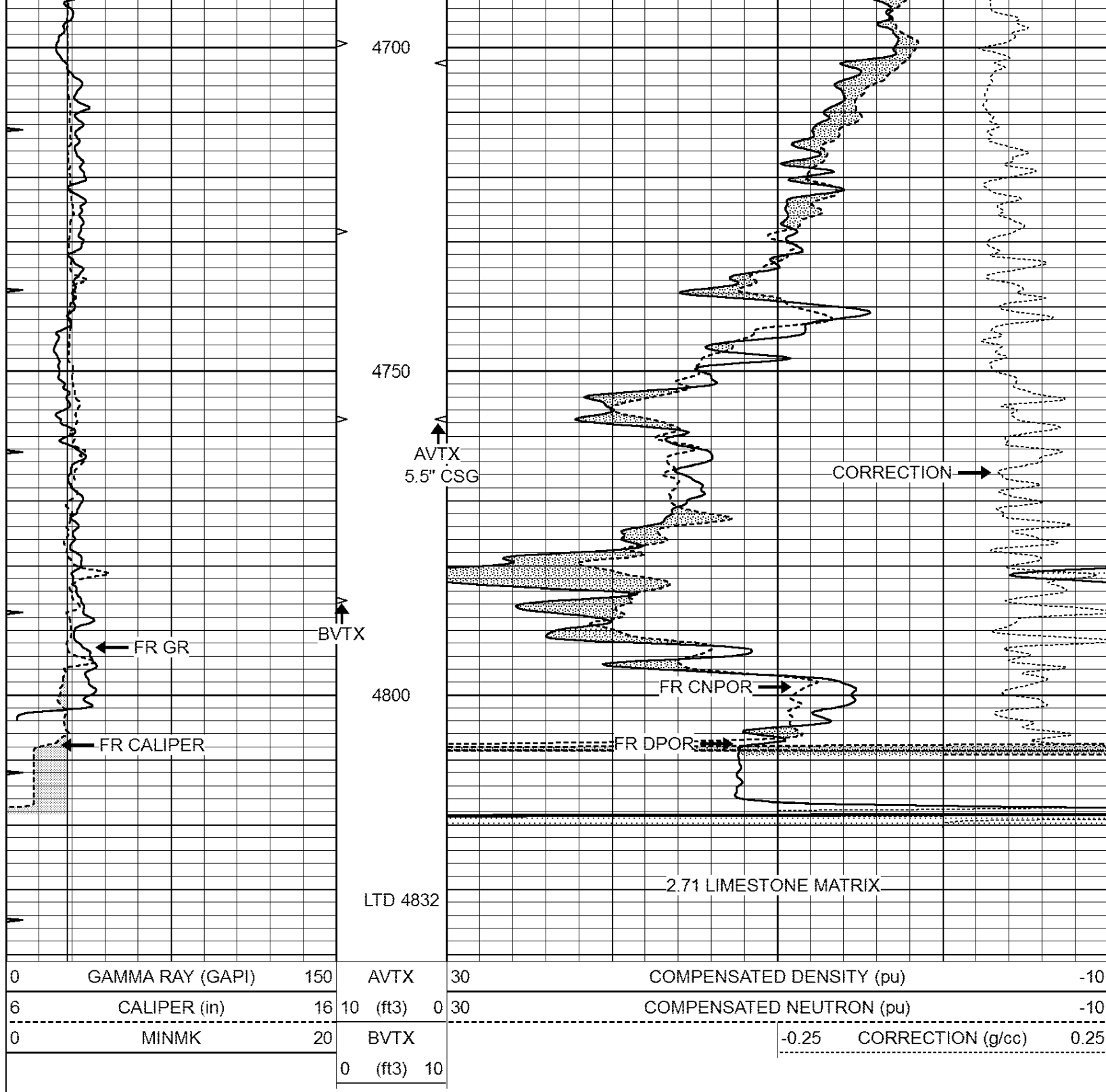
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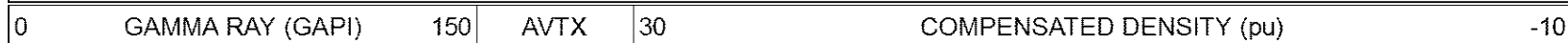
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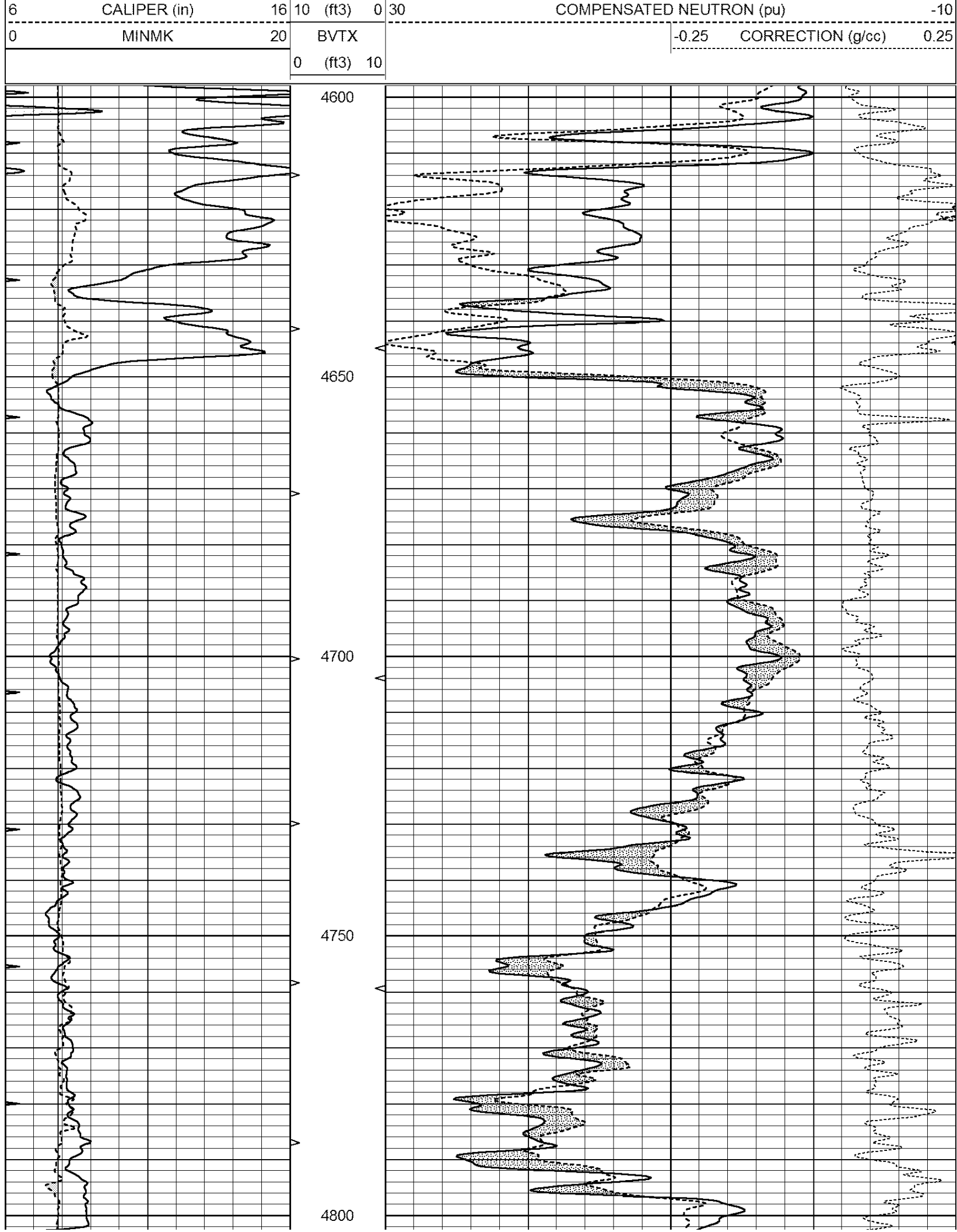


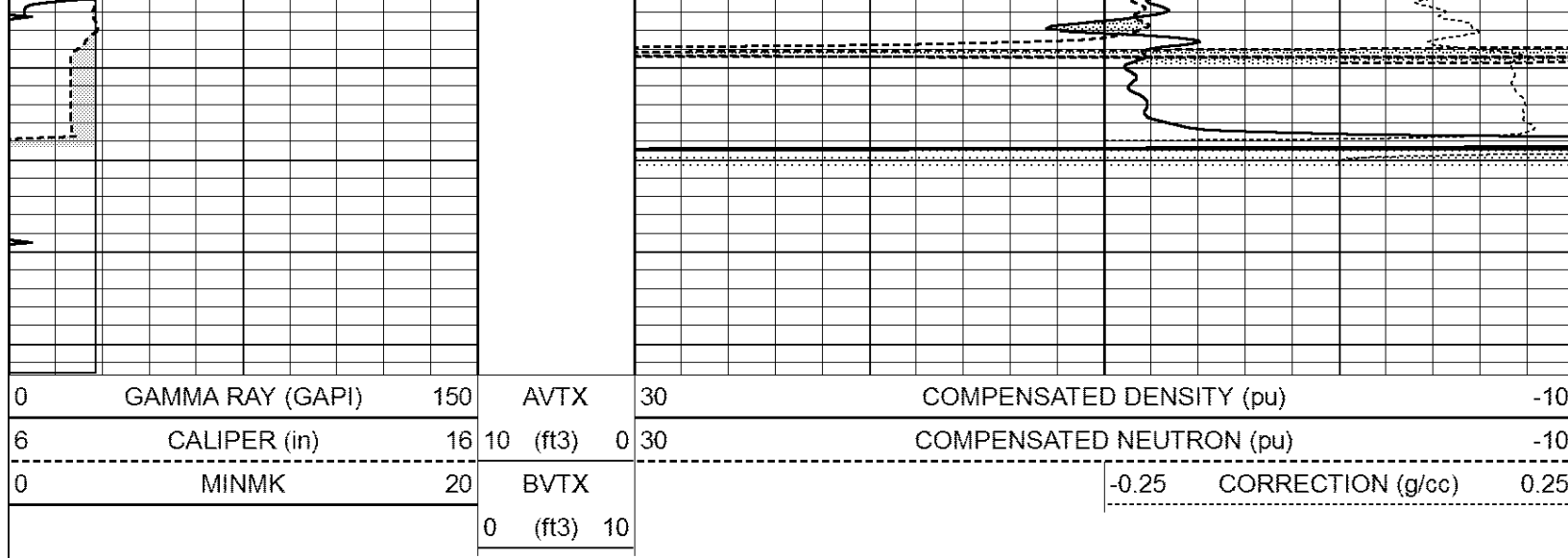


REPEAT SECTION

Database File: 26272ddn.db
 Dataset Pathname: pass2.2
 Presentation Format: _den_neu
 Dataset Creation: Thu Dec 11 22:32:57 2014
 Charted by: Depth in Feet scaled 1:240







Calibration Report

Database File: 26272ddn.db
 Dataset Pathname: pass4.1
 Dataset Creation: Thu Dec 11 22:26:52 2014 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model: PROBE7-DILG
 Surface Cal Performed: Fri Dec 05 11:16:41 2014
 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	520.000	12.000
Medium	0.992	1.002	V	0.000	464.000	mmho/m	570.000	-32.000
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		

Compensated Density Calibration Report

Serial-Model:		GEAR5-GEARHART	
Source / Verifier:		147 / 147	
Master Calibration Performed:		Sat Nov 29 00:24:07 2014	
Before Survey Verification Performed:			
After Survey Verification Performed:			
Master Calibration			
	Density	Far Detector	Near Detector
Magnesium	1.710 g/cc	848.07	511.00 cps
Aluminum	2.610 g/cc	183.22	341.84 cps
Spine Angle = 75.30		Density/Spine Ratio = 0.568	
	Size	Reading	
Small Ring	8.20 in	1.64 V	
Large Ring	14.00 in	2.93 V	
Before Survey Verification			
	Target	Measured	
	g/cc		g/cc
	g/cc		g/cc
	g/cc		g/cc
After Survey Verification			
	Target	Measured	
	g/cc		g/cc
	g/cc		g/cc
	g/cc		g/cc
Compensated Neutron Calibration Report			
Serial Number:		080620	
Tool Model:		Probe	
PRE-SURVEY VERIFICATION			
Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu
POST-SURVEY VERIFICATION			
Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu
Gamma Ray Calibration Report			
Serial Number:	46001		
Tool Model:	Probe1		
Performed:	Mon Nov 24 09:45:18 2014		
Calibrator Value:	1.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	1.0	cps	
Sensitivity:	0.2600	GAPI/cps	