



**COMPLETION  
& PRODUCTION  
SERVICES CO.**

**COMPENSATED  
DENSITY / NEUTRON  
PE LOG**

Company VINCENT OIL CORPORATION  
Well HAWES RANCH #2-22  
Field GREAT MOGUL CANYON  
County FORD  
State KANSAS

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Field GREAT MOGUL CANYON  
County FORD State KANSAS

Location: API # : 15-057-20939-0000  
2360' FSL & 2100' FEL  
SEC 22 TWP 28S RGE 23W  
Permanent Datum GROUND LEVEL Elevation 2480  
Log Measured From KELLY BUSHING 10' A.G.L.  
Drilling Measured From KELLY BUSHING  
Other Services  
DIL/MEL  
SONIIC  
Elevation  
K.B. 2490  
D.F. 2488  
G.L. 2480

Date	9/12/14		
Run Number	ONE		
Depth Driller	5215		
Depth Logger	5214		
Bottom Logged Interval	5190		
Top Log Interval	4200		
Casing Driller	8 5/8"@639'		
Casing Logger	642		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 9400 PPM	
Density / Viscosity	9.1/48		
pH / Fluid Loss	10.5/10.4		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	.60 @ 60F		
Rmf @ Meas. Temp	.45 @ 60F		
Rmc @ Meas. Temp	.72 @ 60F		
Source of Rmf / Rmc	MEASUREMENT		
Rim @ BHT	.28 @ 127F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	127F		
Equipment Number	4854		
Location	HAYS, KANSAS		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	TOM DUDGEON		

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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**

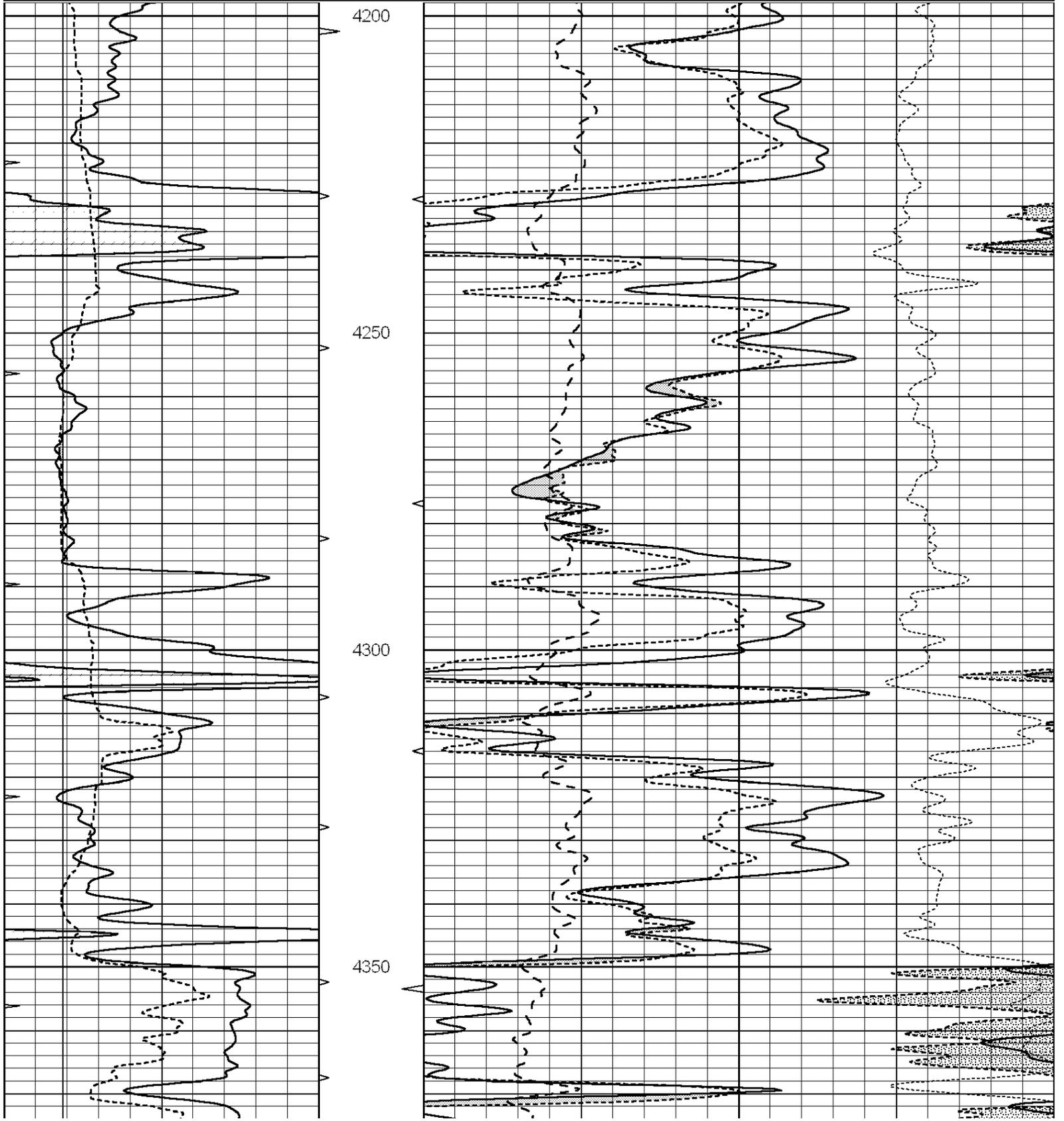
THANK YOU FOR USING "NABORS" HAYS, KANSAS (785) 628-6395  
DIRECTIONS  
FORD, KS. - NORTH TO SADDLE RD. - WEST TO 123 RD. - 2 SOUTH TO UPLAND RD.  
2 WEST TO 121 RD. - 2 1/2 SOUTH - EAST & SOUTH INTO AT TANK BATTERY.

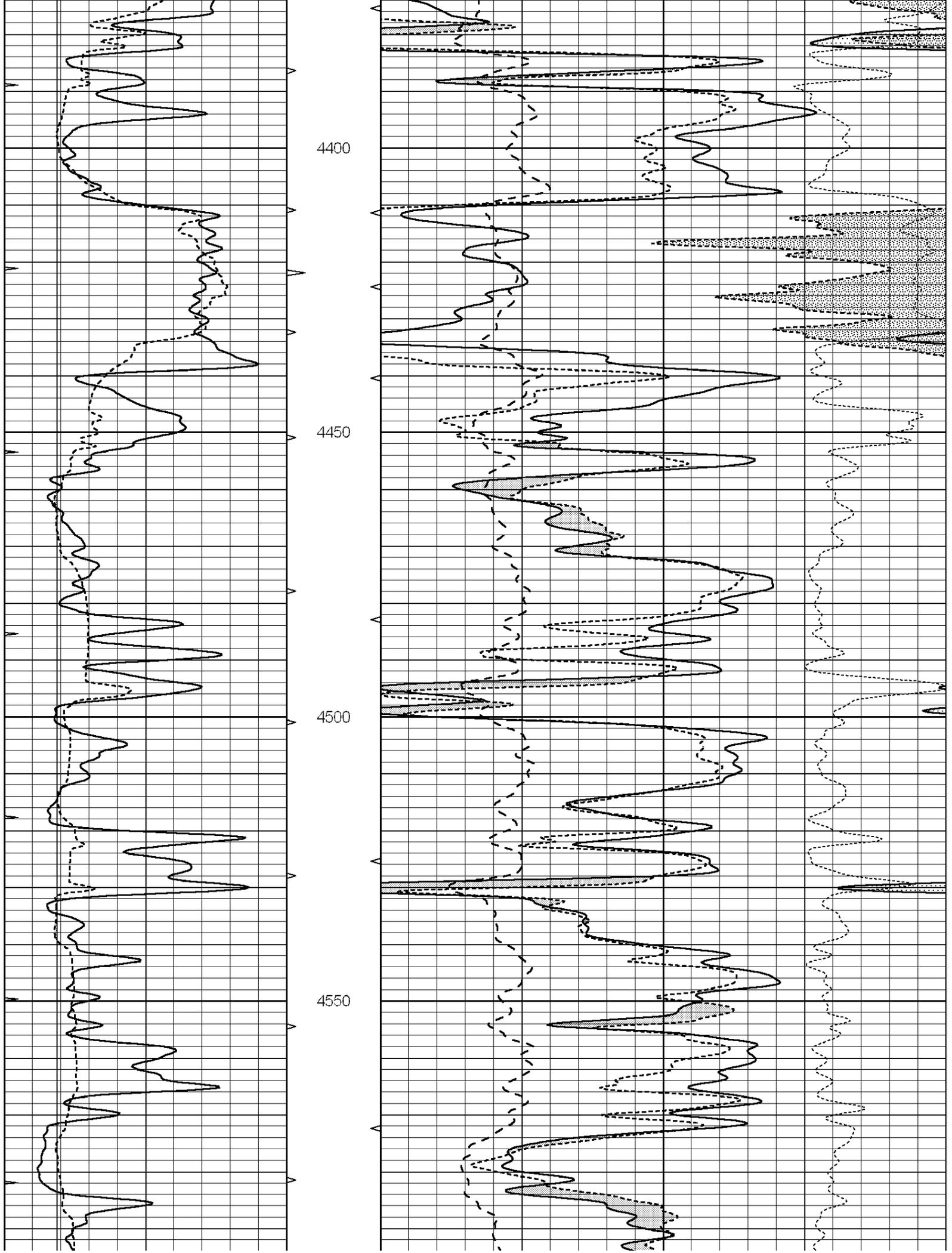


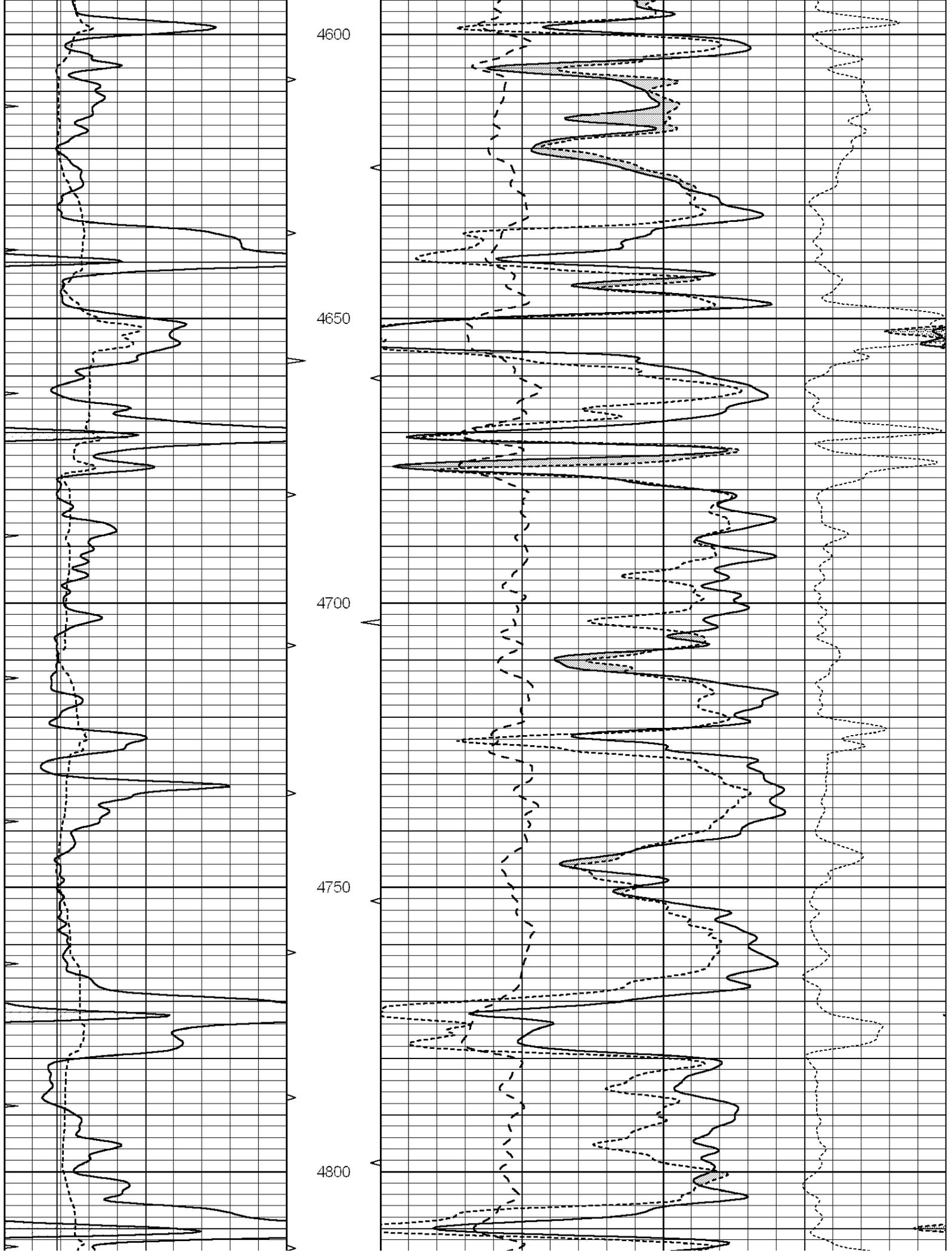
**MAIN SECTION**

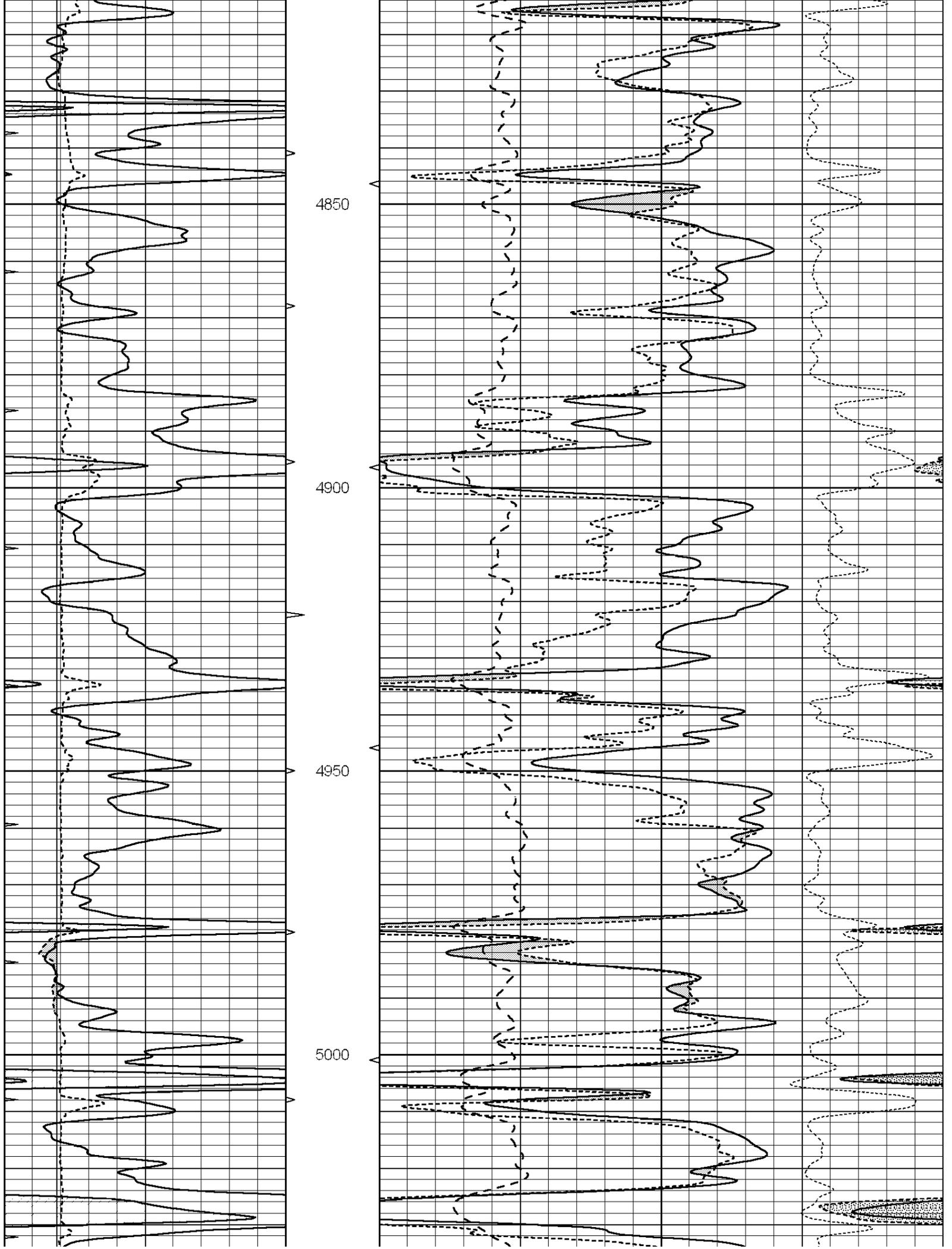
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 Presentation Format: \_ldt\_neu  
 Dataset Creation: Fri Sep 12 21:35:14 2014 by Calc SOC 120430  
 Charted by: Depth in Feet scaled 1:240

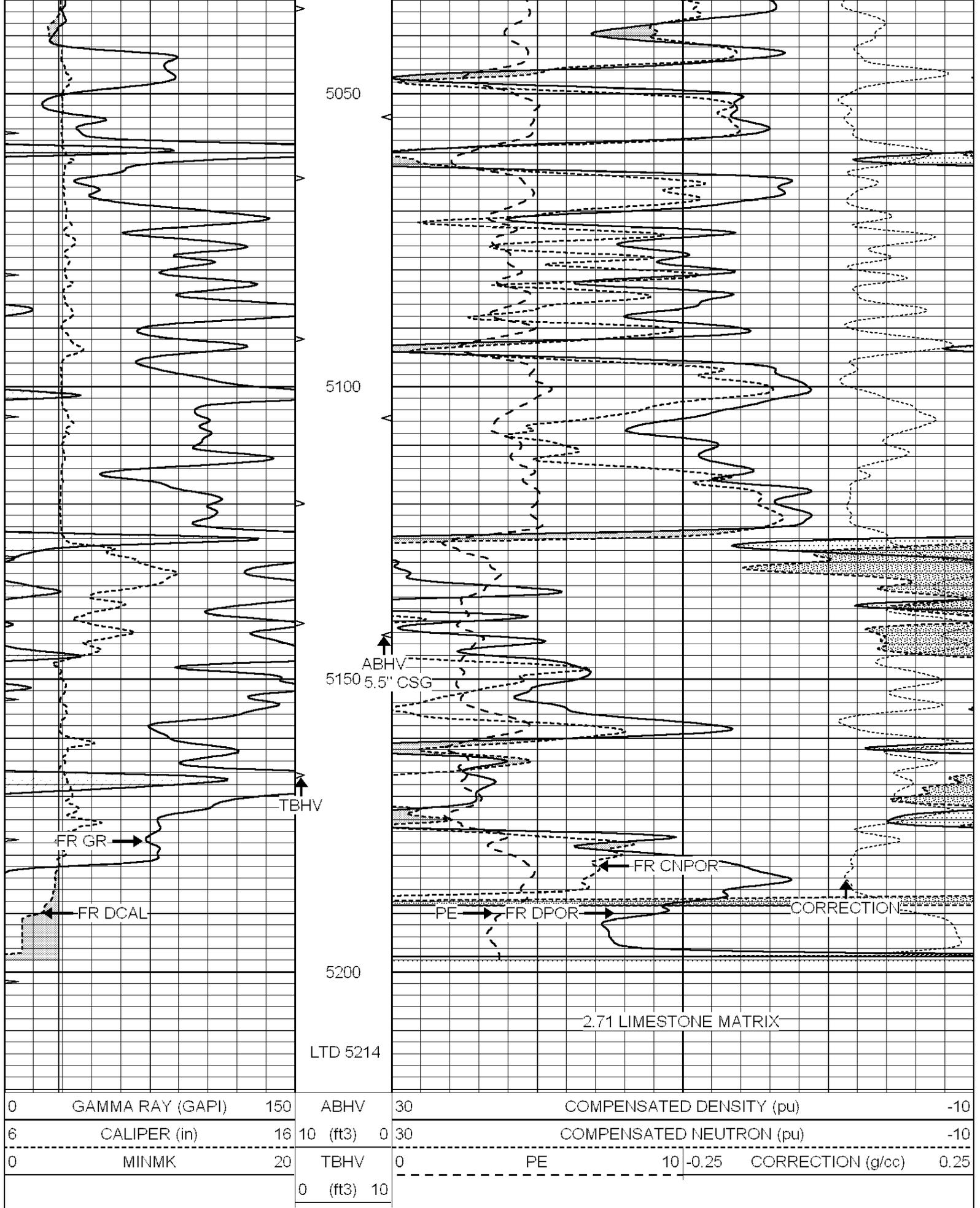
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)		-10		
6	CALIPER (in)	16	10 (ft3)	0	30	COMPENSATED NEUTRON (pu)		-10	
0	MINMK	20	TBHV	0	PE	10	-0.25	CORRECTION (g/cc)	0.25
			0 (ft3)	10					





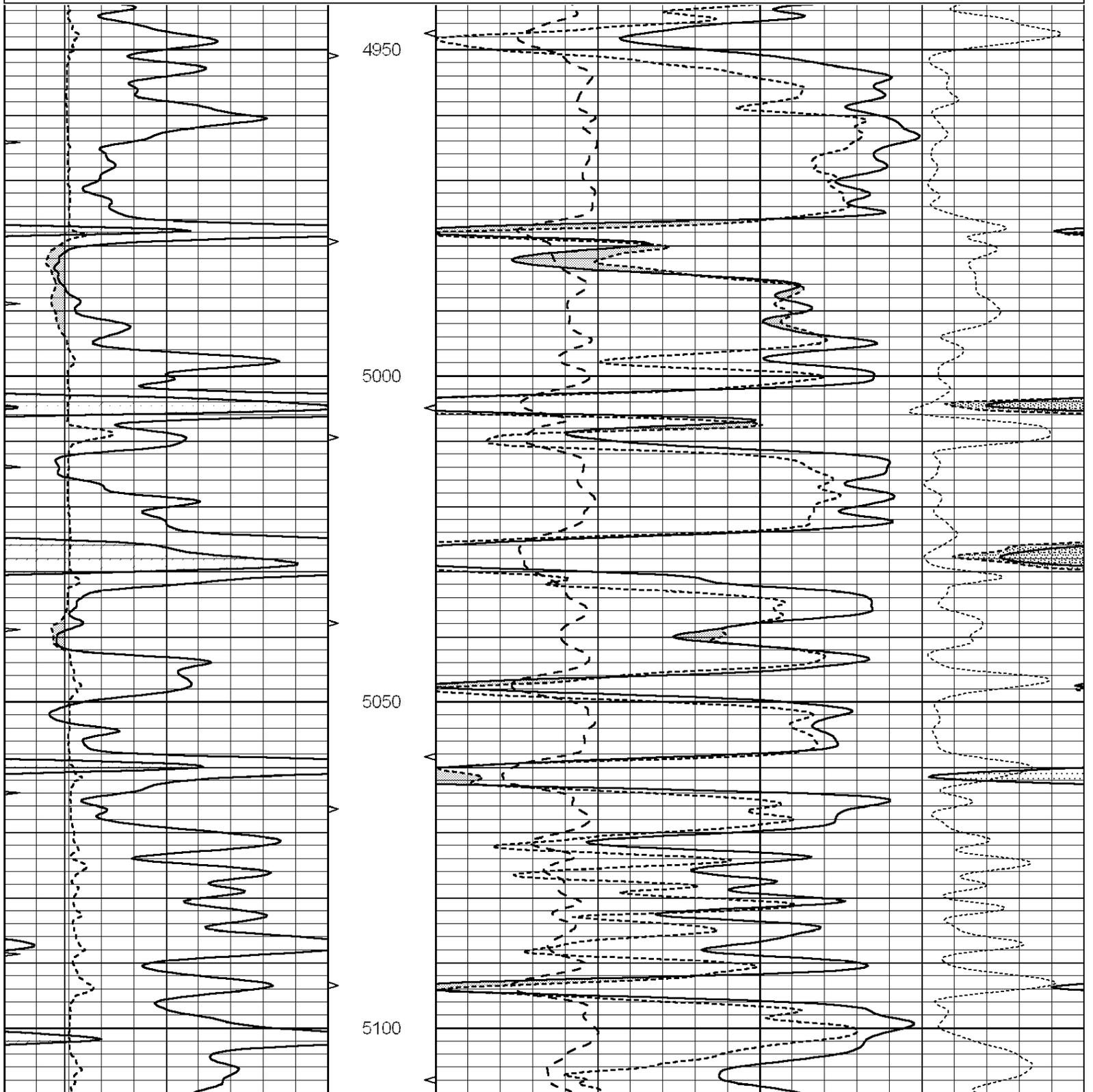


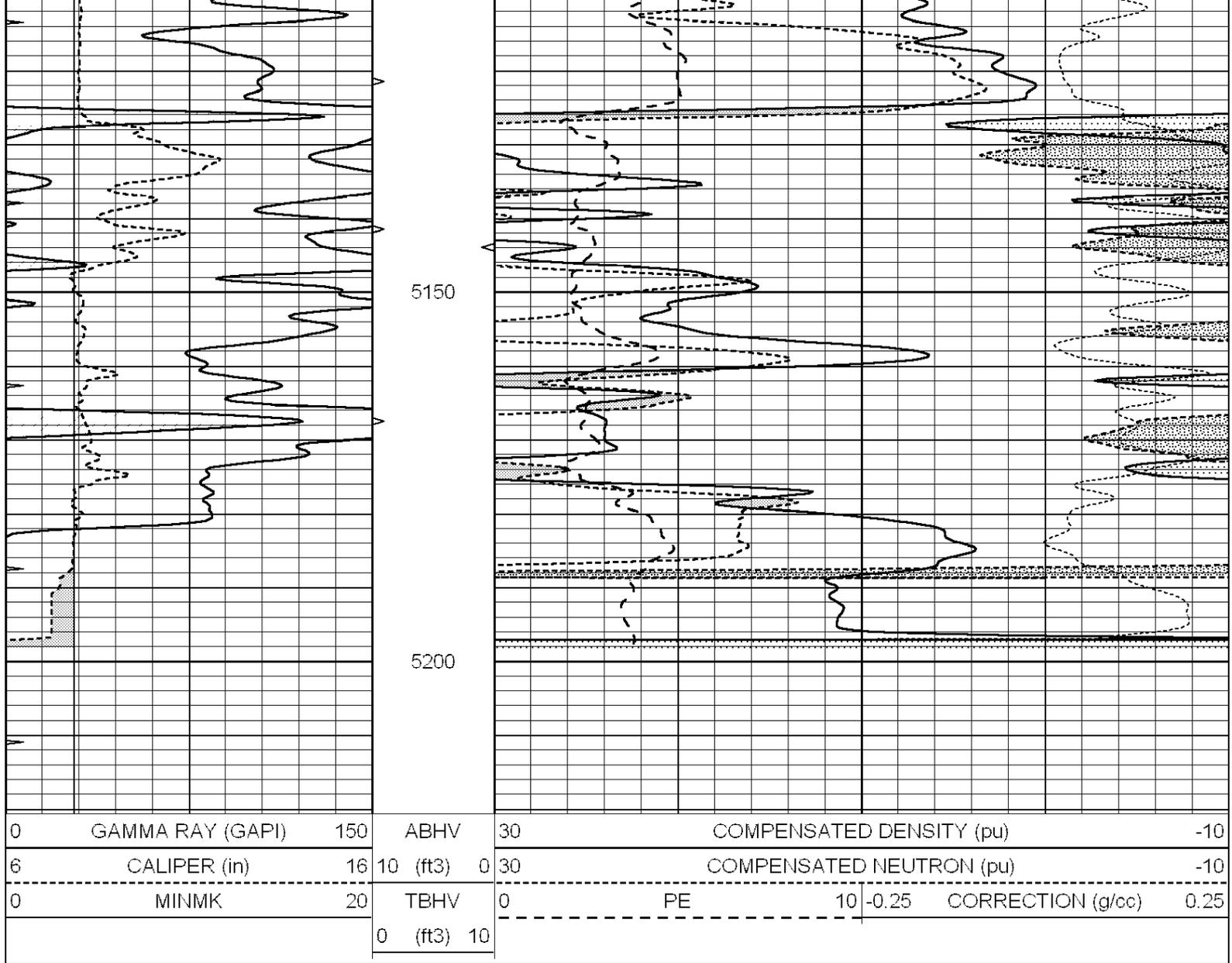




Database File: 25879pe.db  
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 Presentation Format: \_ldt\_neu  
 Dataset Creation: Fri Sep 12 21:27:15 2014 by Calc SOC 120430  
 Charted by: Depth in Feet scaled 1:240

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





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					

### Calibration Report

Database File: 25879pe.db  
 Dataset Pathname: pass4.1  
 Dataset Creation: Fri Sep 12 21:27:15 2014 by Calc SOC 120430

### Dual Induction Calibration Report

Serial-Model: PROBE9-DILG  
 Surface Cal Performed: Thu Sep 11 03:56:33 2014  
 Downhole Cal Performed: Mon Jul 28 12:02:56 2008  
 After Survey Verification Performed: Mon Jul 28 12:02:56 2008

#### Surface Calibration

Loop:	Readings				References		Results	
	Air	Loop	V		Air	Loop	m	b
Deep	-0.014	0.629	V	0.000	400.000	mmho/m	670.000	-20.000
Medium	0.039	0.728	V	0.000	464.000	mmho/m	670.000	-30.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.011	0.610	V	0.000	400.000	mmho/m	667.135	-7.256
Medium	0.005	0.712	V	0.000	464.000	mmho/m	655.677	-3.102

#### Downhole Calibration

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	14.508	388.384	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	166.367	504.400	mmho/m	1.000	0.000
LL3		7.500	V		1400.000	Ohm-m		
		0.000	V		20.000	Ohm-m		
		-7.200	V		4000.000	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		

Litho Density Calibration Report  
Serial: 003N      Model: PRB

Master Calibration		Performed Tue Sep 08 14:14:44 2009					
	Background	Magnesium	Aluminum	Sandstone			
Window 1	2042.6	12312.8	4225.8	13758.4	cps		
Window 2	1855.8	10134.7	3624.2	11113.1	cps		
Window 3	1639.4	6760.2	2716.3	7260.3	cps		
Window 4	466.4	469.2	466.1	476.5	cps		
Long Space	0.0	8278.9	1768.4	9257.4	cps		
Short Space	2.2	2377.3	1544.1	2574.2	cps		
Rho		1.7100	2.5900	1.3800	g/cc		
Pe		0.0000	2.5700	1.5500			
Rib Angle	: 44.4	Rib Slope	: 0.979	Density/Spine Ratio	: 0.549		
Spine Angle	: 74.4	Spine Slope	: 3.577	Spine Intercept	: -18.8		

Before Survey Verification		Performed Wed Dec 31 18:00:00 1969					
Window 1	0.0	0.0	0.0	0.0	cps		
Window 2	0.0	0.0	0.0	0.0	cps		
Window 3	0.0	0.0	0.0	0.0	cps		
Window 4	0.0	0.0	0.0	0.0	cps		
Long Space	0.0	0.0	0.0	0.0	cps		
Short Space	0.0	0.0	0.0	0.0	cps		
Measured Rho		0.0000	0.0000	0.0000	g/cc		
Measured Correction		0.0000	0.0000	0.0000	g/cc		
Measured Pe			0.0000	0.0000			

After Survey Verification		Performed Wed Dec 31 18:00:00 1969					
Window 1	0.0	0.0	0.0	0.0	cps		
Window 2	0.0	0.0	0.0	0.0	cps		
Window 3	0.0	0.0	0.0	0.0	cps		
Window 4	0.0	0.0	0.0	0.0	cps		
Long Space	0.0	0.0	0.0	0.0	cps		
Short Space	0.0	0.0	0.0	0.0	cps		
Measured Rho		0.0000	0.0000	0.0000	g/cc		
Measured Correction		0.0000	0.0000	0.0000	g/cc		
Measured Pe			0.0000	0.0000			

Compensated Neutron Calibration Report

Serial Number: 070808  
 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: 070558  
 Tool Model: OPEN\_GR  
 Performed: Mon Jun 30 21:53:39 2014

Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.2800	GAPI/cps