



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

**COMPENSATED
DENSITY / NEUTRON
LOG**

Company	TRANS - PACIFIC OIL CORPORATION		
Well	HARPER "B" UNIT #1-13		
Field	WILDCAT		
County	LANE		
State	KANSAS		
Location:	Company	TRANS - PACIFIC OIL CORPORATION	
	Well	HARPER "B" UNIT #1-13	
Location:	Field	WILDCAT	
	County	LANE	
Location:	State	KANSAS	
	API # :	15-101-22476-0000	
Location:	01' FNL & 1320' FWL		
	N/2 - N/2 - N/2 - NW		
Location:	SEC 13 TWP 17S RGE 27W		
	GROUND LEVEL	Elevation 2557	
Location:	Log Measured From	KELLY BUSHING 9' A.G.L.	
	Drilling Measured From	KELLY BUSHING	
Date	11/25/13		
Run Number	ONE		
Depth Driller	4600		
Depth Logger	4604		
Bottom Logged Interval	4580		
Top Log Interval	3600		
Casing Driller	8 5/8"@224'		
Casing Logger	220		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 3,100 PPM	
Density / Viscosity	9.5/48		
pH / Fluid Loss	10.5/6.4		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	.900@60F		
Rmf @ Meas. Temp	.675@60F		
Rmc @ Meas. Temp	1.08@60F		
Source of Rmf / Rmc	MEASUREMENT		
Rim @ BHT	.446@121F		
Time Circulation Stopped	2.5 HOURS		
Time Logger on Bottom	8:45 P.M.		
Maximum Recorded Temperature	121F		
Equipment Number	4854		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	JEFF LAWLER		

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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

UTICA, KS. 4W. ON HWY 4 TO (NESS / LANE COUNTY LINE) 4 3/4 S., 3/4W. & S. & W. INTO ON TRAIL



NABORS

**COMPLETION
& PRODUCTION**

MAIN SECTION

Database File:

011815ddn.db

Dataset Pathname:

pass3.7

Presentation Format:

den_neu

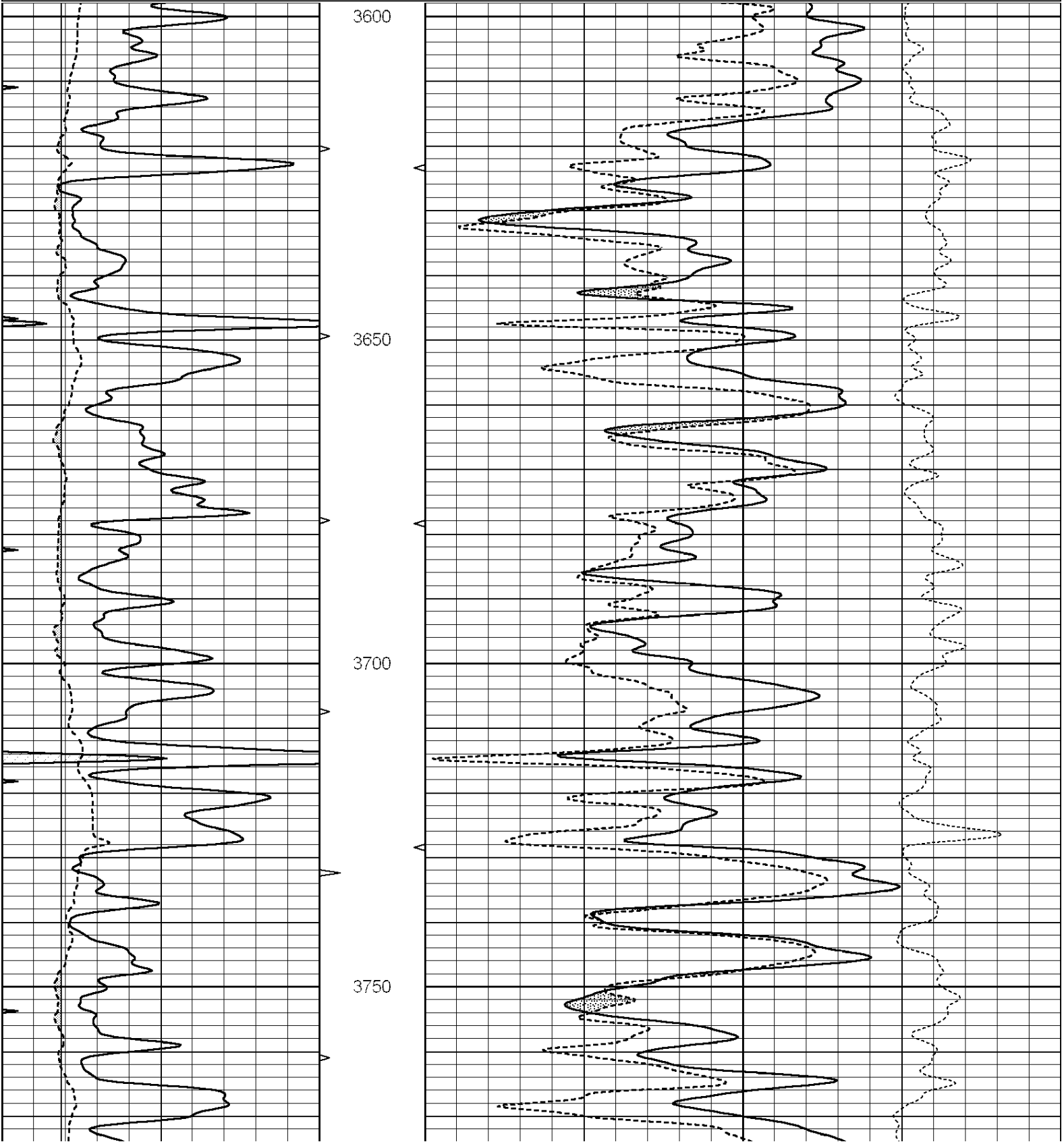
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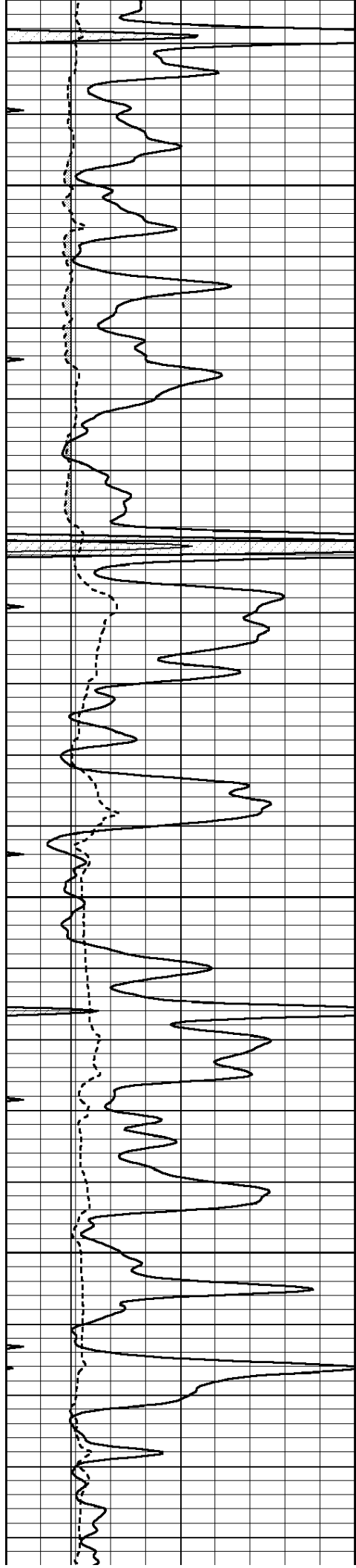
Mon Nov 25 22:40:11 2013

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		



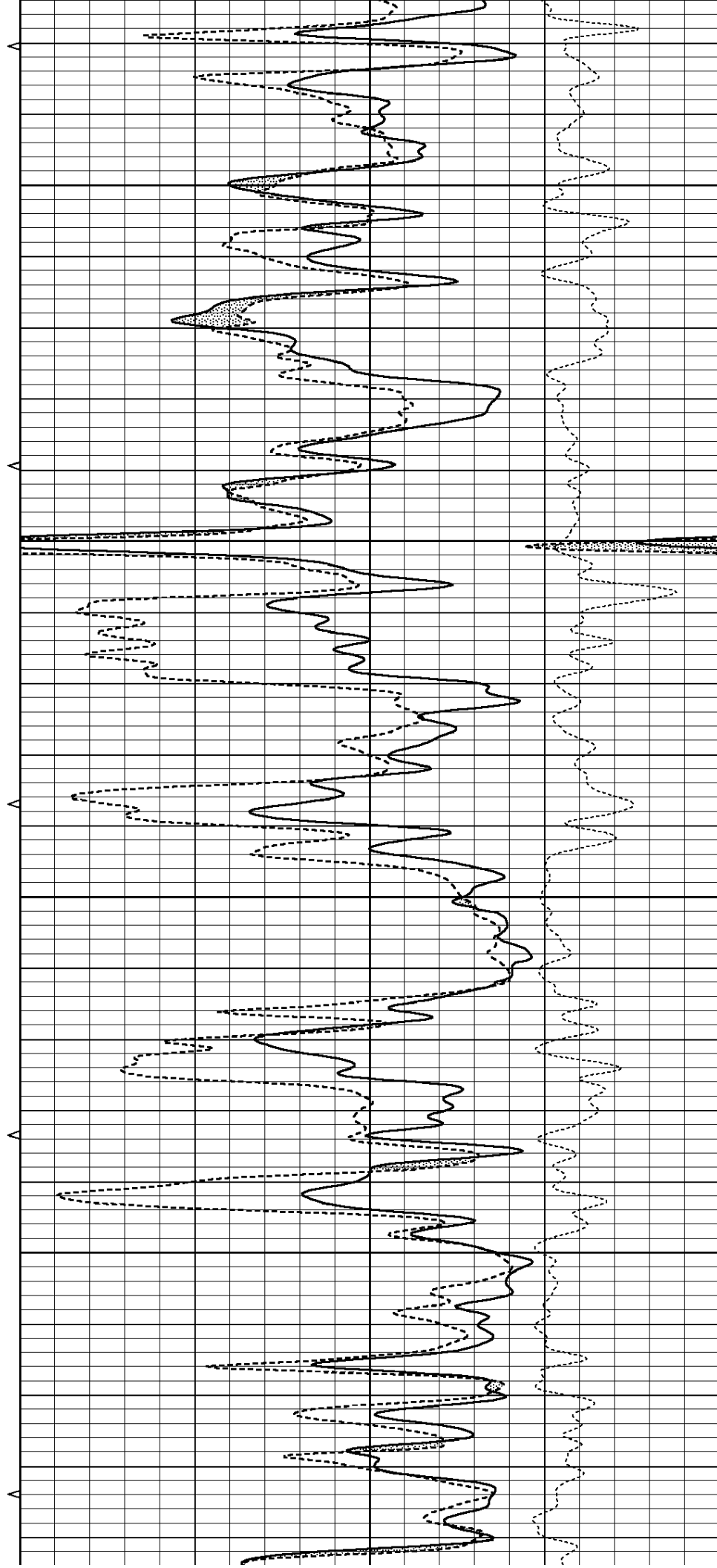


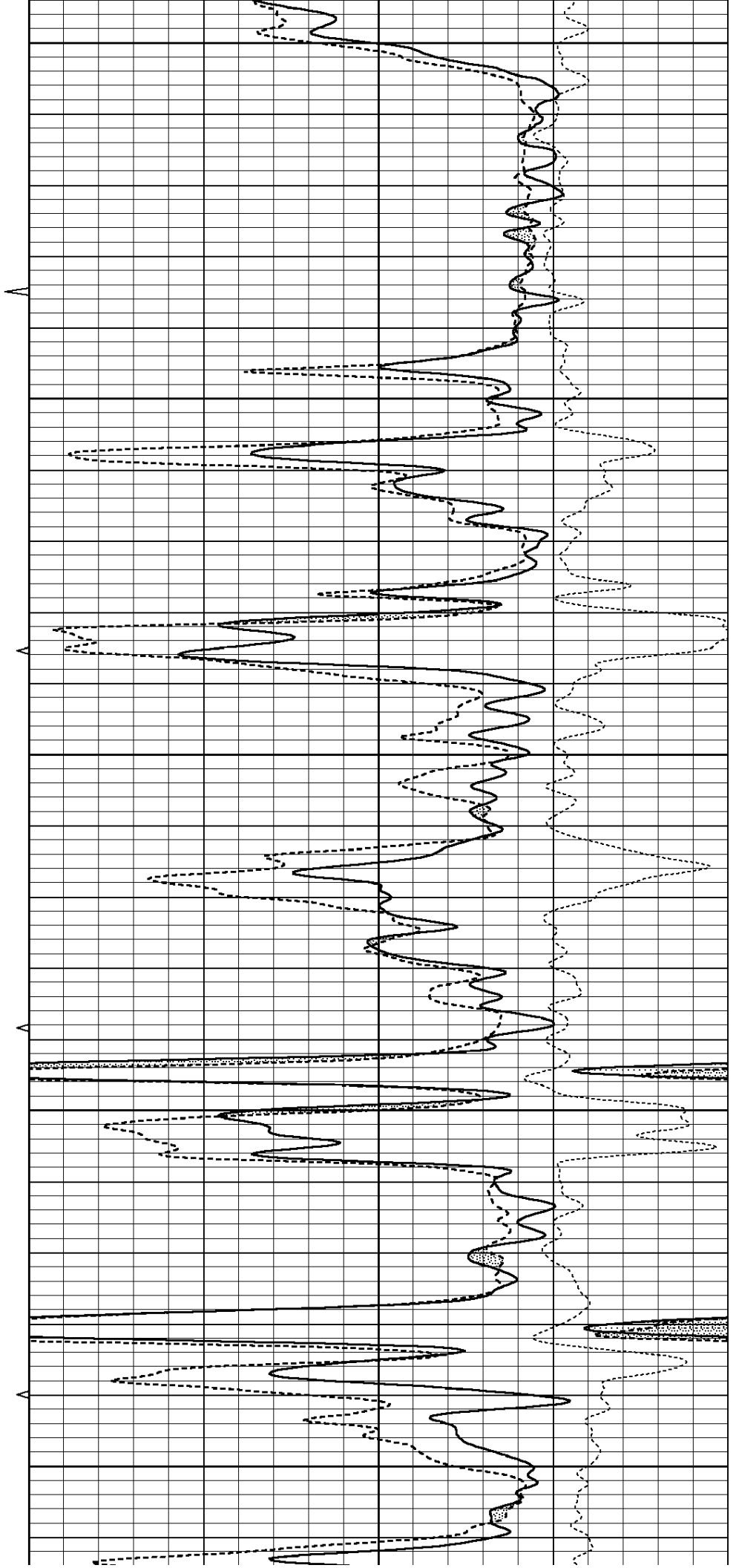
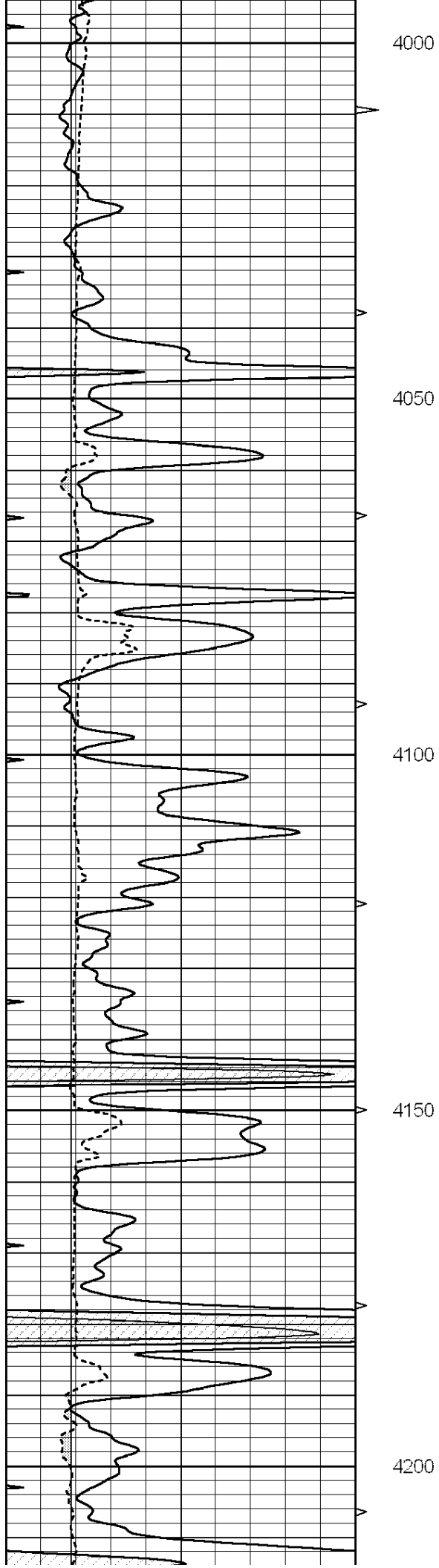
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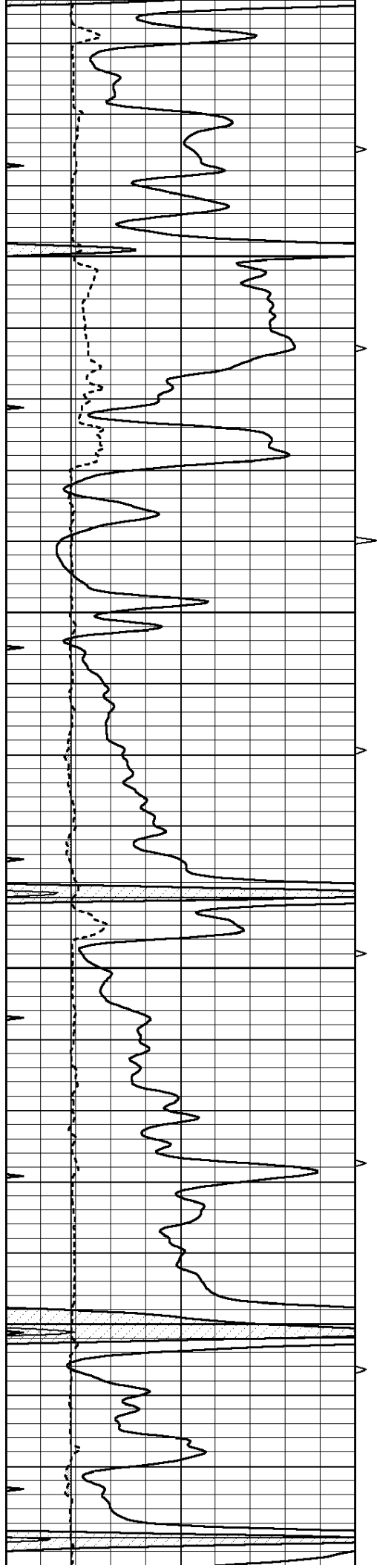
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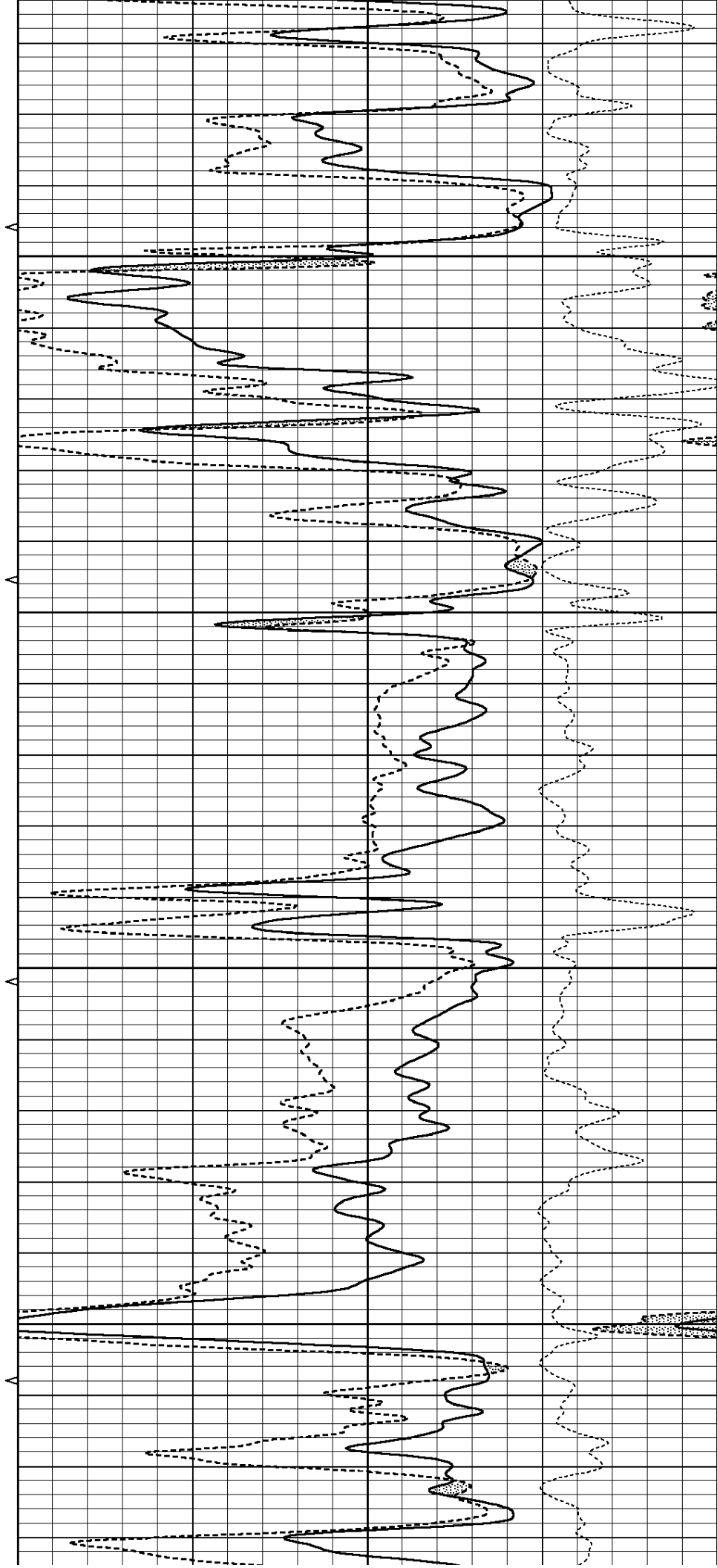


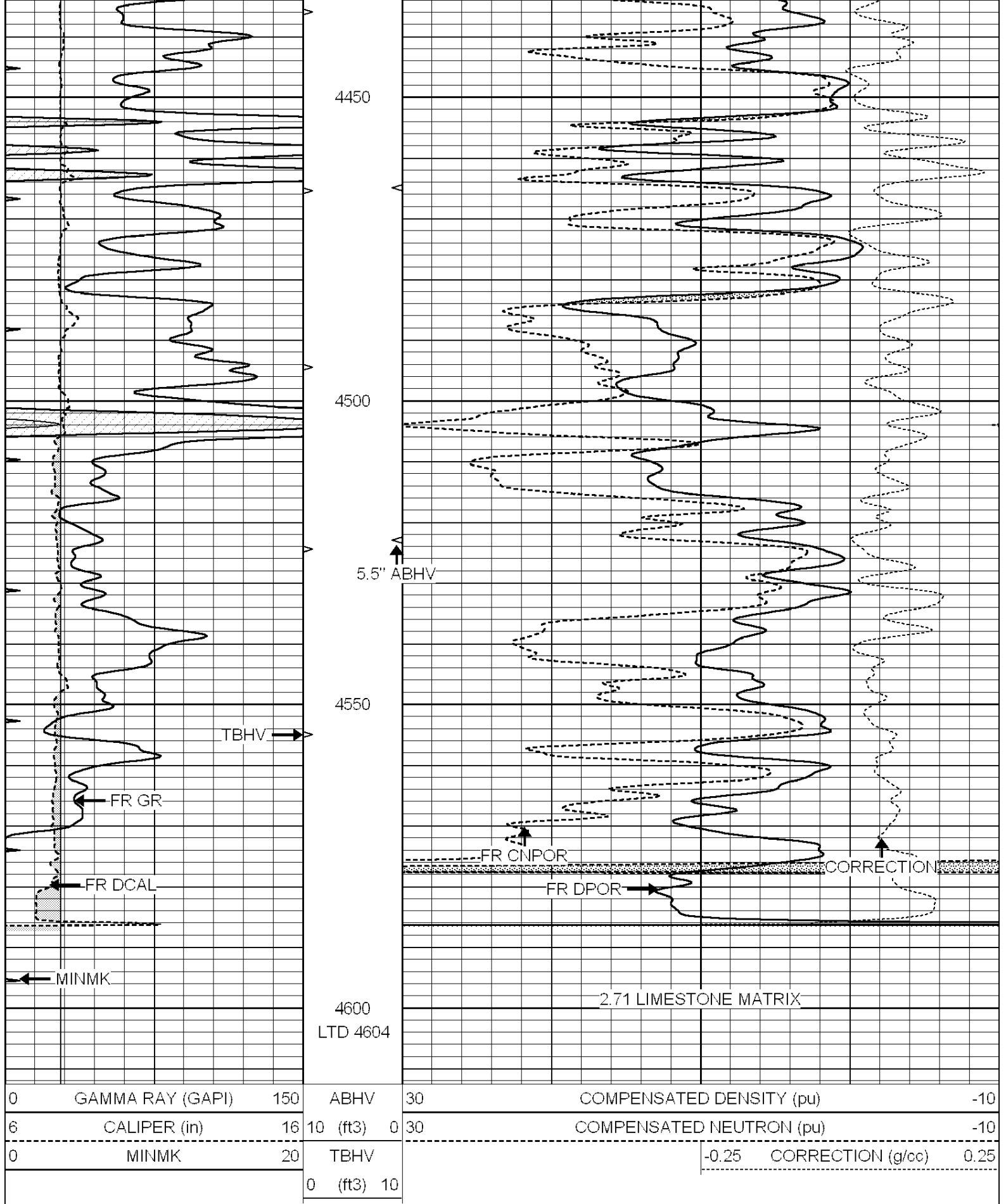
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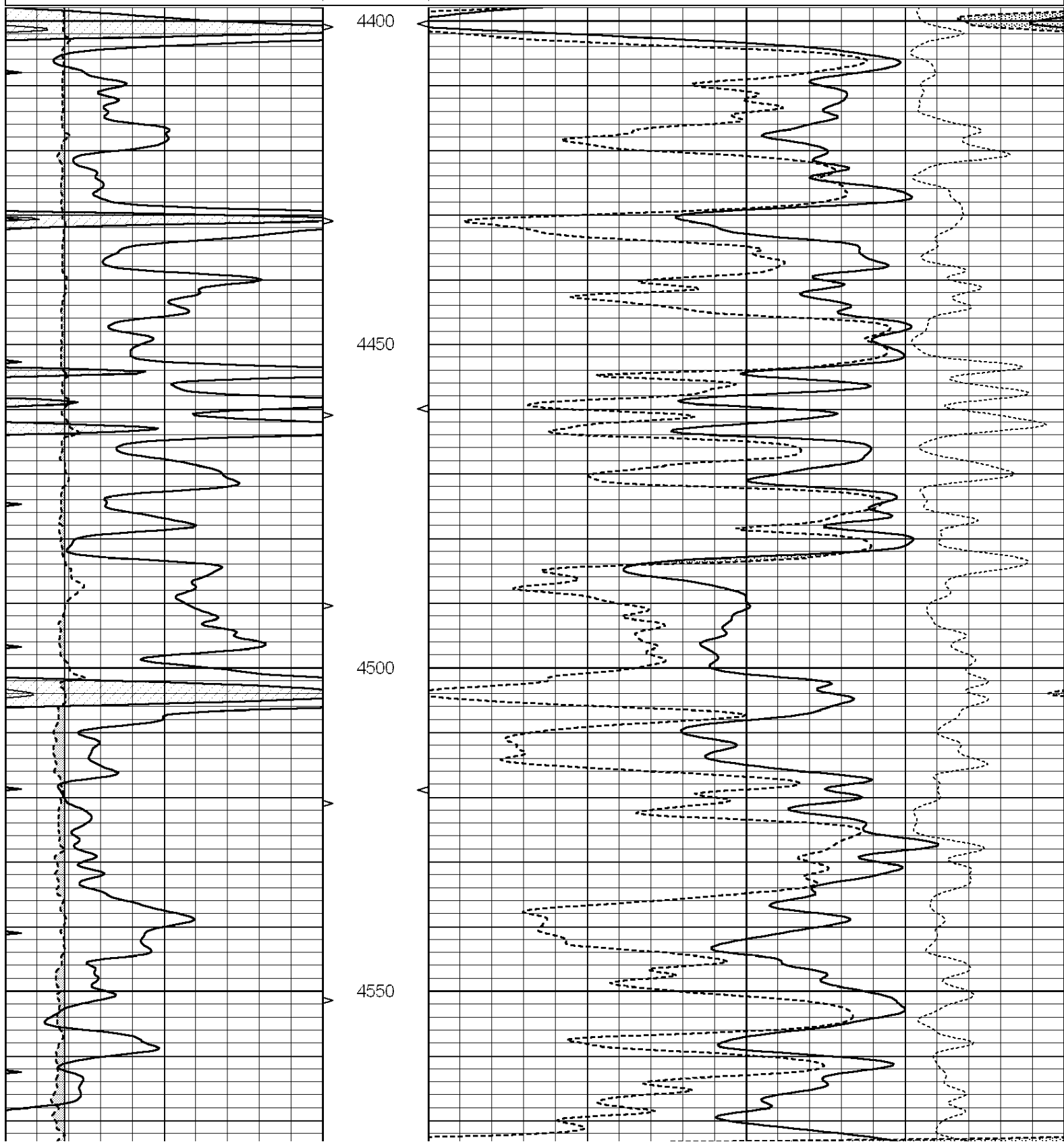
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Database File: 011815ddn.db
 Dataset Pathname: pass2.2
 Presentation Format: den_neu
 Dataset Creation: Mon Nov 25 22:41:58 2013 by Calc SOC 120430
 Charted by: Depth in Feet scaled 1:240

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



Database File:		011815ddn.db		Calibration Report				
Dataset Pathname:		pass3.7						
Dataset Creation:		Mon Nov 25 22:40:11 2013						
Dual Induction Calibration Report								
Serial-Model:				PROBE9-DILG				
Surface Cal Performed:				Tue Nov 19 06:44:33 2013				
Downhole Cal Performed:				Mon Jul 28 12:02:56 2008				
After Survey Verification Performed:				Mon Jul 28 12:02:56 2008				
Surface Calibration								
		Readings			References		Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	-0.014	0.629	V	0.000	400.000	mmho/m	650.000	-15.000
Medium	0.039	0.728	V	0.000	464.000	mmho/m	640.000	-14.000
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: 004N		Model: PRB				

	Background	Magnesium	Aluminum	Sandstone	
Window 1	1417.6	10391.4	3464.6	11537.5	cps
Window 2	1295.0	8959.7	3050.1	9816.4	cps
Window 3	1105.1	5464.2	2051.0	5838.8	cps
Window 4	315.0	317.7	312.9	319.8	cps
Long Space	0.0	7664.6	1755.0	8521.3	cps
Short Space	1.8	1582.4	1040.8	1699.4	cps
Rho		1.7100	2.5900	1.3800	g/cc
Pe		0.0000	2.5700	1.5500	
Rib Angle	: 44.1	Rib Slope	: 0.970	Density/Spine Ratio	: 0.574
Spine Angle	: 74.1	Spine Slope	: 3.519	Spine Intercept	: -17.0

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	

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Compensated Neutron Calibration Report
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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:	070559
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Tool Model:	OPEN_GR
Performed:	Sun Nov 03 21:08:13 2013

Calibrator Value:	1.0	GAPI
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Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps

Sensitivity:	0.3000	GAPI/cps
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