



**Casedhole
Solutions**

**COMPENSATED
DENSITY / NEUTRON
LOG**

Company L.D. DRILLING, INC.
Well #1-30 SLAGLE FAMILY TRUST OWWO
Field McVICKER
County NESS
State KANSAS

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County NESS State KANSAS

Location: API # : 15-135-21321-0001
1995' FSL & 650' FWL
SE - NW - NW - SW
SEC 30 TWP 20S RGE 25W
Permanent Datum GROUND LEVEL Elevation 2408
Log Measured From KELLY BUSHING 5' A.G.L.
Drilling Measured From KELLY BUSHING
Other Services
DIL/MEL
Elevation
K.B. 2413
D.F. 2411
G.L. 2408

Date	2/14/16		
Run Number	ONE		
Depth Driller	4538		
Depth Logger	4538		
Bottom Logged Interval	4514		
Top Log Interval	3600		
Casing Driller	8 5/8"@349'		
Casing Logger	349		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 8,000 PPM	
Density / Viscosity	8.9/34		
pH / Fluid Loss	7.5/10.4		
Source of Sample	FLOWLINE		
Rin @ Meas. Temp	.500@77F		
Rinf @ Meas. Temp	.375@77F		
Rinc @ Meas. Temp	.600@77F		
Source of Rinf / Rinc	MEASUREMENT		
Rin @ BHT	.218@121F		
Time Circulation Stopped	2.5 HOURS		
Time Logger on Bottom	11:45 A.M.		
Maximum Recorded Temperature	121F		
Equipment Number	922339		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	KIM SHOEMAKER		

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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 (C & J ENERY/ CASEDHOLE SOLUTIONS) HAYS, KANSAS (785) 628-6395
DIRECTIONS
NESS CITY, KS., 6W. ON HWY 96 TO (LAIRD RD.) "RD. J", 11S. TO "RD. 20", 4W. TO "RD. F", 1/2S., E. INTO

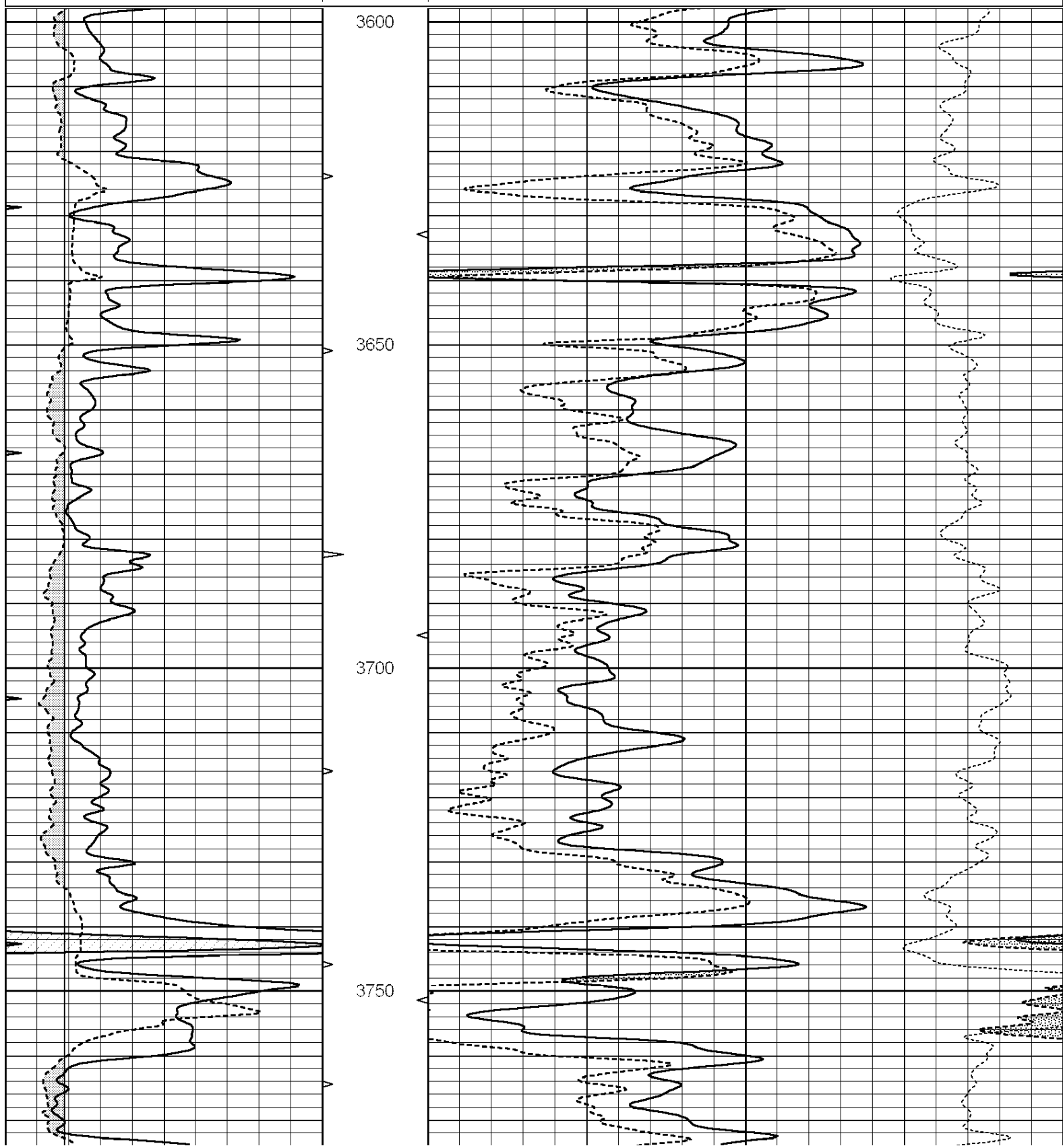


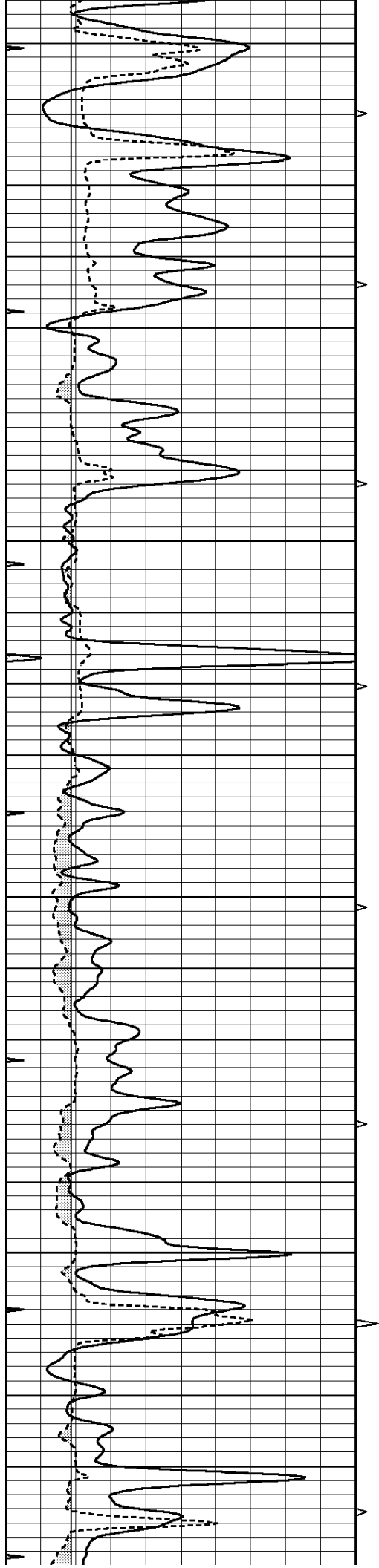
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MAIN SECTION

Database File: 30686ddn.db
Dataset Pathname: pass3.8
Presentation Format: den_neu
Dataset Creation: Sun Feb 14 13:00:26 2016
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		



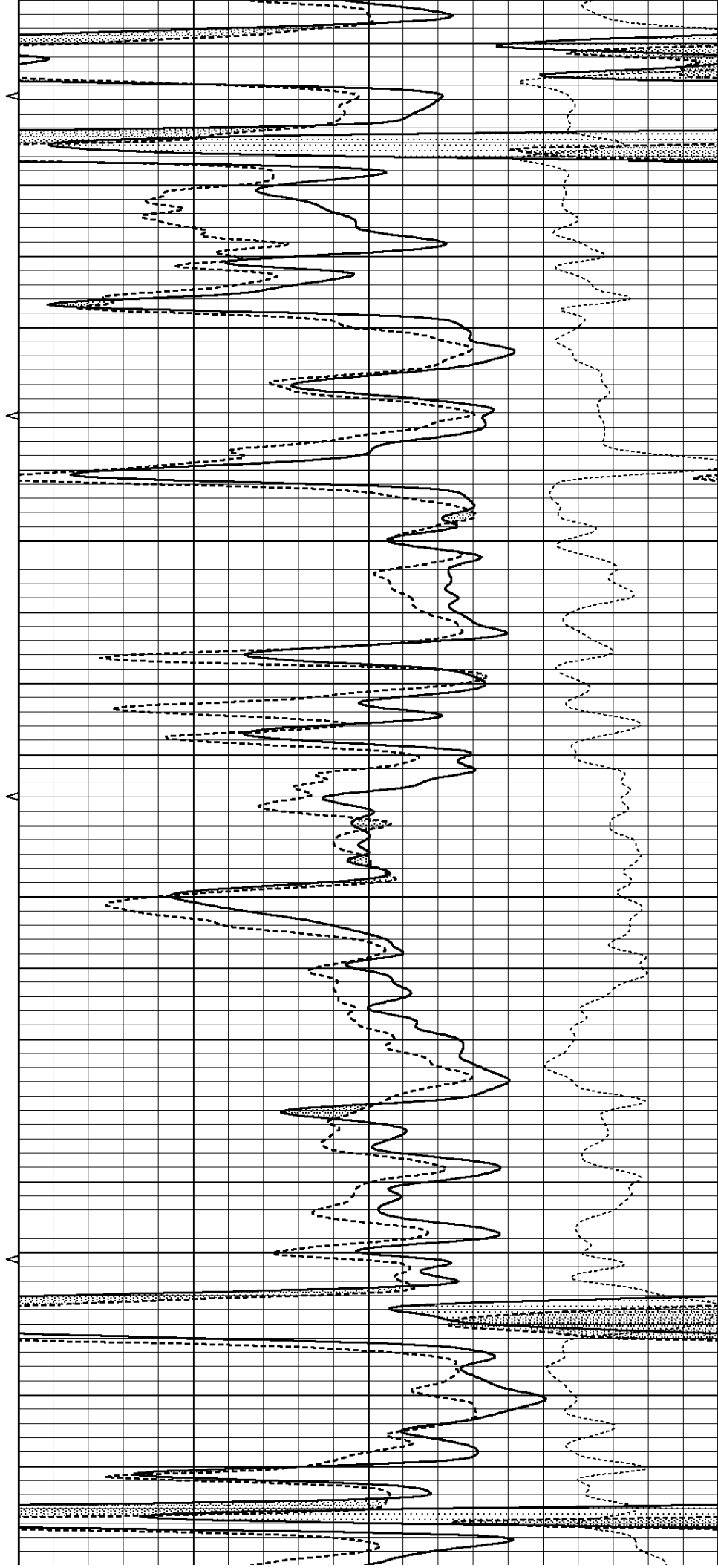


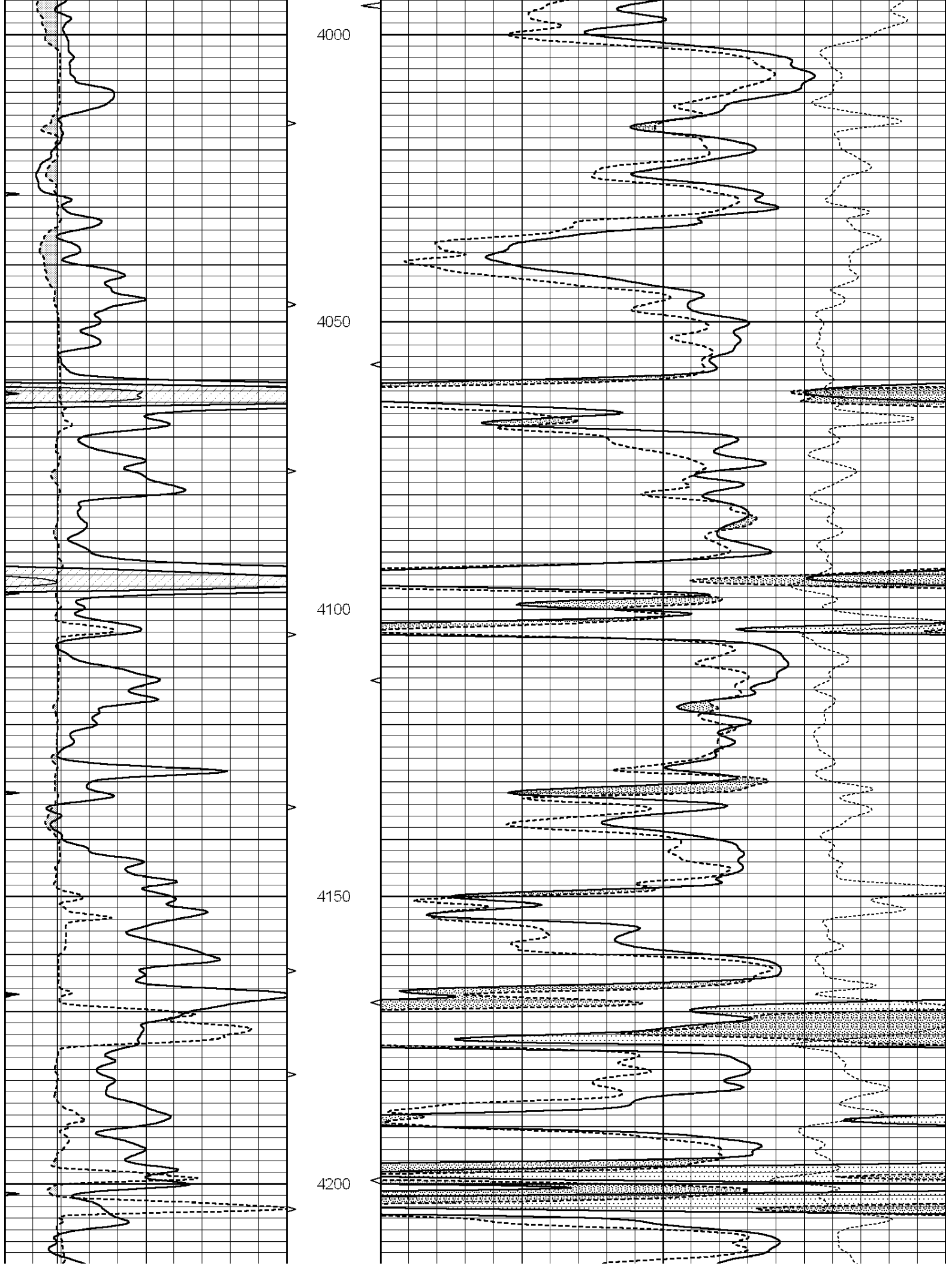
3800

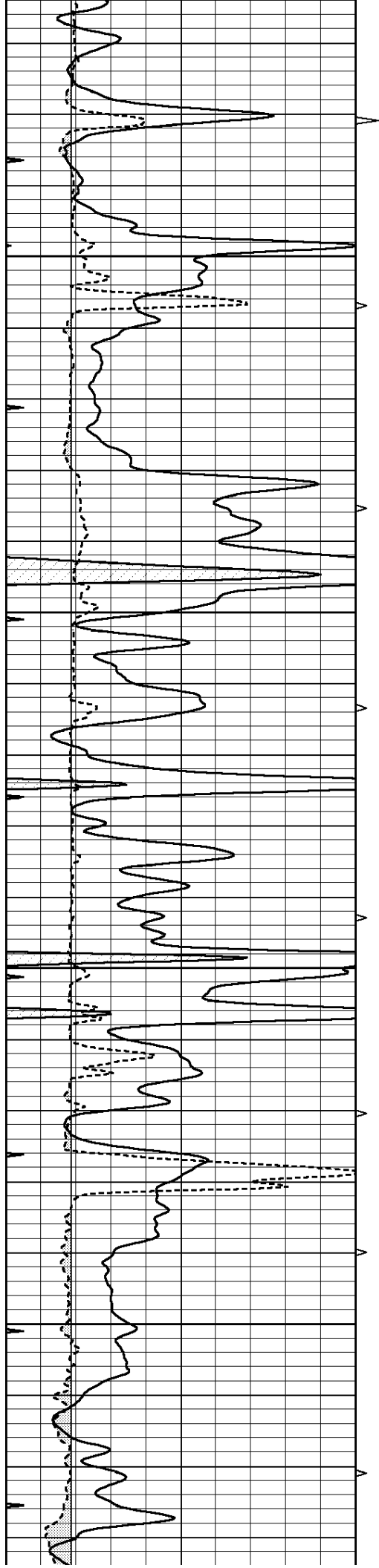
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3900

3950





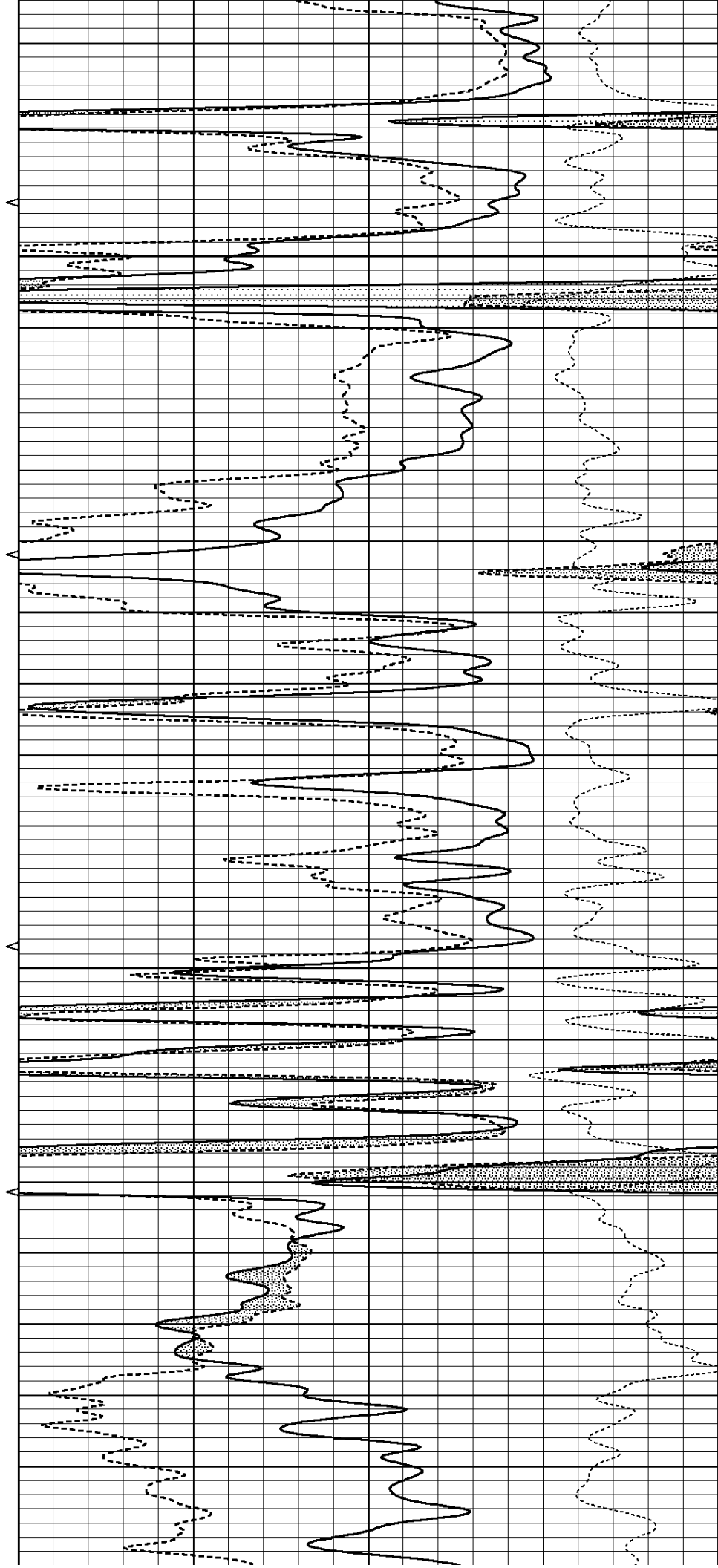


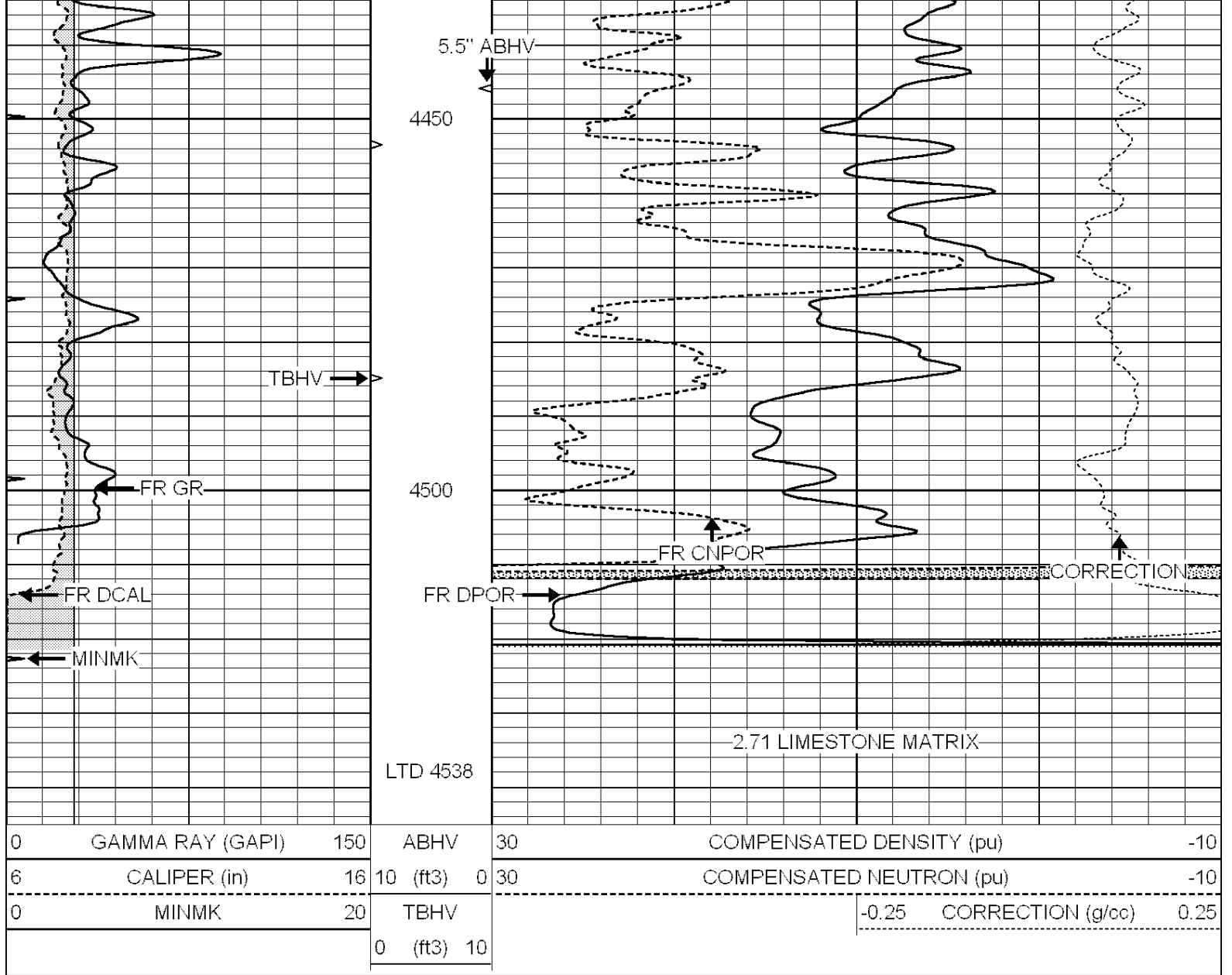
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4300

4350

4400



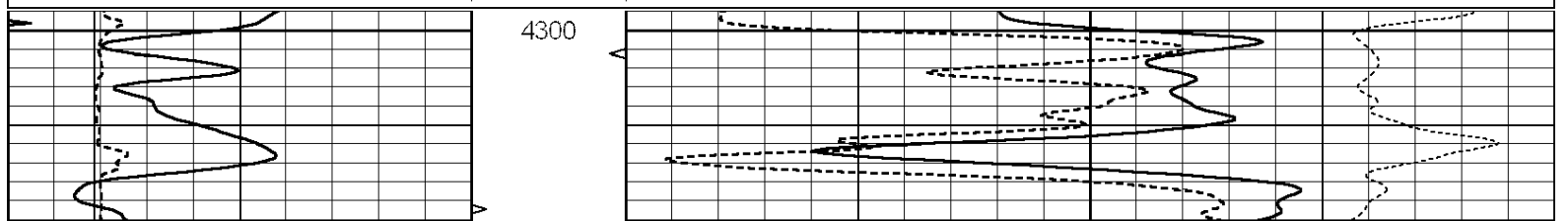


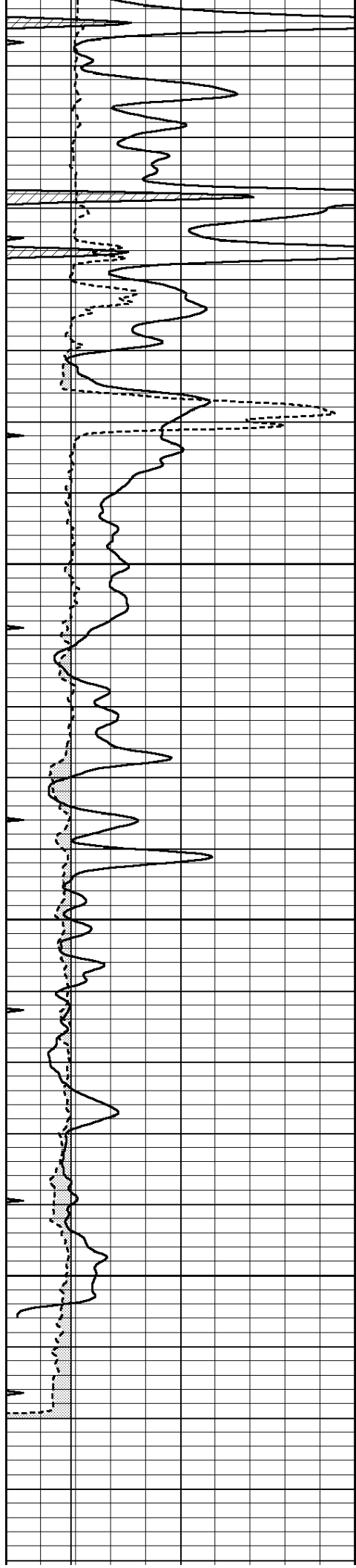
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REPEAT SECTION

Database File: 30686ddn.db
 Dataset Pathname: pass2.6
 Presentation Format: den_neu
 Dataset Creation: Sun Feb 14 12:28:13 2016 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		



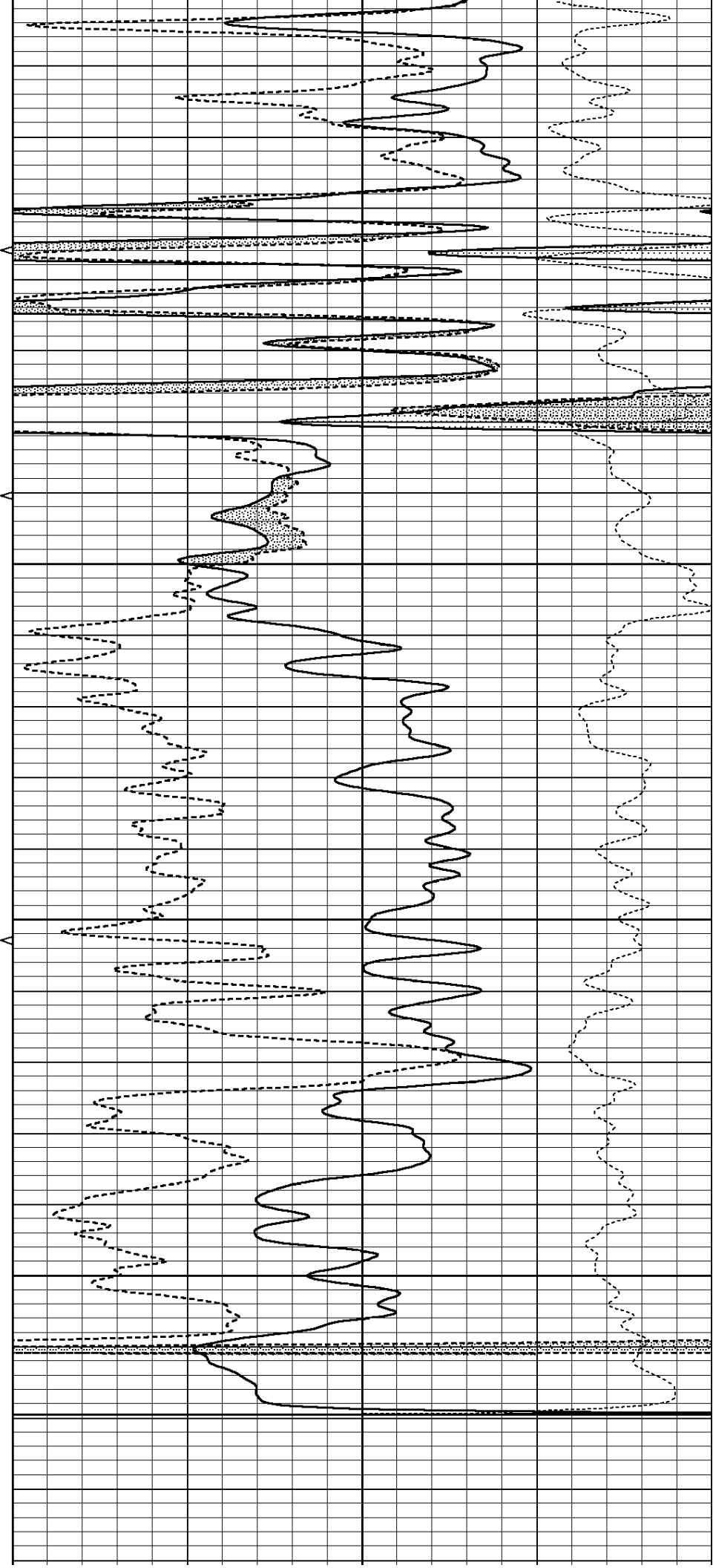


4350

4400

4450

4500



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:	30686ddn.db								
Dataset Pathname:	pass3.8								
Dataset Creation:	Sun Feb 14 13:00:26 2016								

Dual Induction Calibration Report									
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Serial-Model:	PROBE9-DILG								
Surface Cal Performed:	Sun Feb 14 11:27:24 2016								
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	670.000	-10.000	
Medium	0.039	0.728	V	0.000	464.000	mmho/m	685.000	-25.000	
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							

Master Calibration					Performed Fri May 30 11:01:00 2014				
	Background	Magnesium	Aluminum	Sandstone					
Window 1	1378.8	10804.6	3492.0	12453.4					cps
Window 2	1262.4	9313.5	3076.7	10594.7					cps
Window 3	1077.6	5668.7	2076.0	6314.8					cps
Window 4	306.4	313.0	306.4	315.6					cps
Long Space	0.0	8051.0	1814.3	9332.3					cps
Short Space	1.9	1706.1	1146.0	1707.6					cps

Rho	1.7100	2.5900	1.3800	g/cc	
Pe	0.0000	2.5700	1.5500		
Rib Angle	: 45.0	Rib Slope	: 1.002	Density/Spine Ratio	: 0.571
Spine Angle	: 75.0	Spine Slope	: 3.745	Spine Intercept	: -18.9
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:		Wed Jan 13 07:49:22 2016			
Calibrator Value:		1.0	GAPI		
Background Reading:		0.0	cps		
Calibrator Reading:		1.0	cps		
Sensitivity:		0.2800	GAPI/cps		