



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

COMPENSATED DENSITY / NEUTRON LOG

Company	ETERNITY EXPLORATION, LLC	Company	ETERNITY EXPLORATION, LLC
Well	CG MACKENDER #1	Well	CG MACKENDER #1
Field	BUTTERFIELD - OVERLAND	Field	BUTTERFIELD - OVERLAND
County	GOVE	County	GOVE
State	KANSAS	State	KANSAS
Location:	API # : 15-063-22040-00-00 330' FSL & 3700' FEL W2-SW-SE	Other Services	DIL/MEL
Permanent Datum	GROUND LEVEL	Elevation	2728
Log Measured From	KELLY BUSHING 8' A.G.L.	K.B.	2736
Drilling Measured From	KELLY BUSHING	D.F.	2734
		G.L.	2728
Date	10/7/12		
Run Number	ONE		
Depth Driller	4500		
Depth Logger	4488		
Bottom Logged Interval	4464		
Top Log Interval	3500		
Casing Driller	8 5/8" @ 233'		
Casing Logger	232		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES	2,300 PPM
Density / Viscosity	9.3/44		
pH / Fluid Loss	10.0/8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.10 @ 90F		
Rmt @ Meas. Temp	0.06 @ 90F		
Rmc @ Meas. Temp	0.12 @ 90F		
Source of Rmt / Rmc	MEASUREMENT		
Rm @ BHT	0.07 @ 121F		
Time Circulation Stopped	2.5 HOURS		
Time Logger on Bottom	121F		
Maximum Recorded Temperature	121F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	IAN MABB	JEFF GRONEWEG	
Witnessed By	SCOTT ALBERG		

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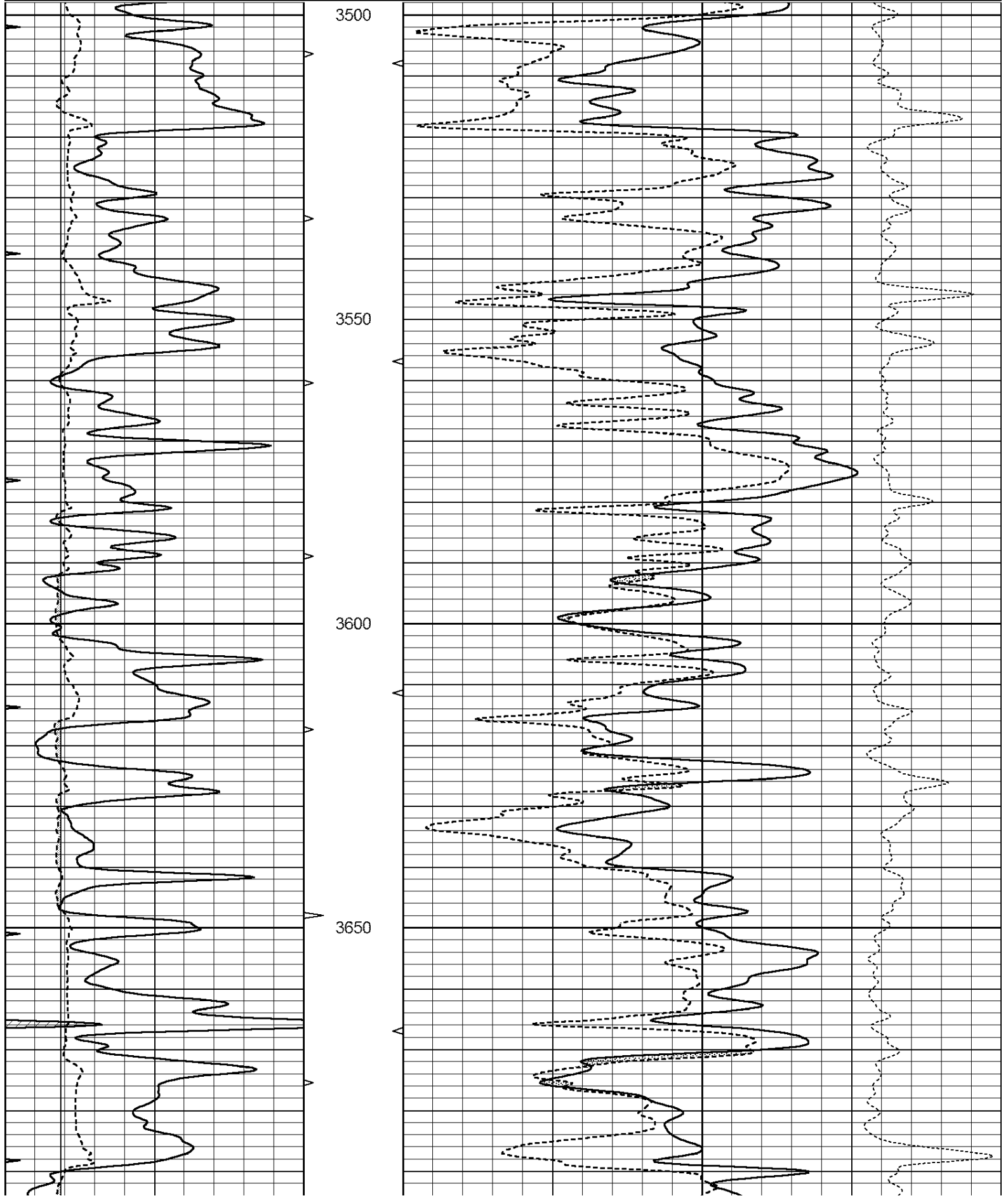
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

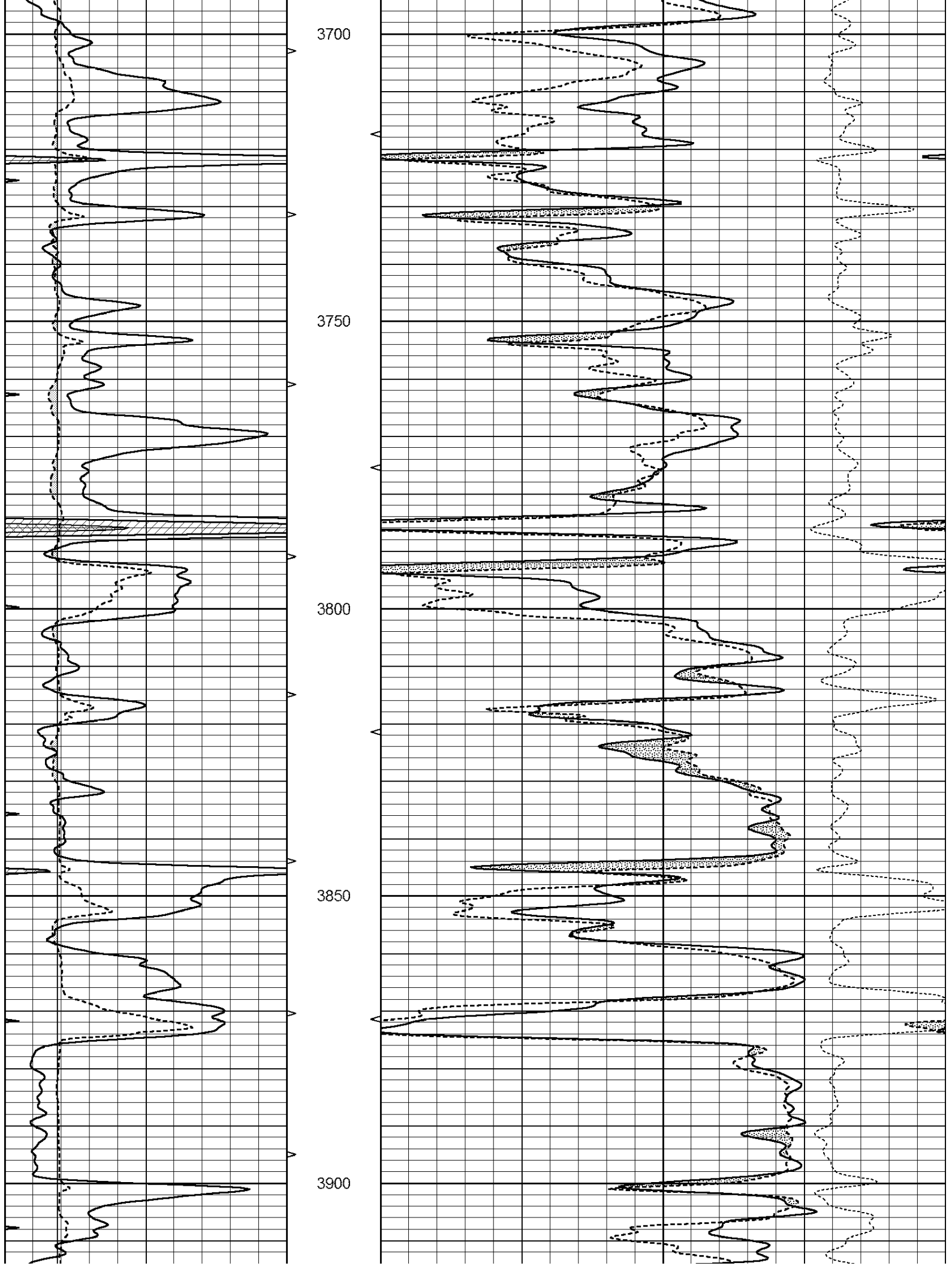
Comments

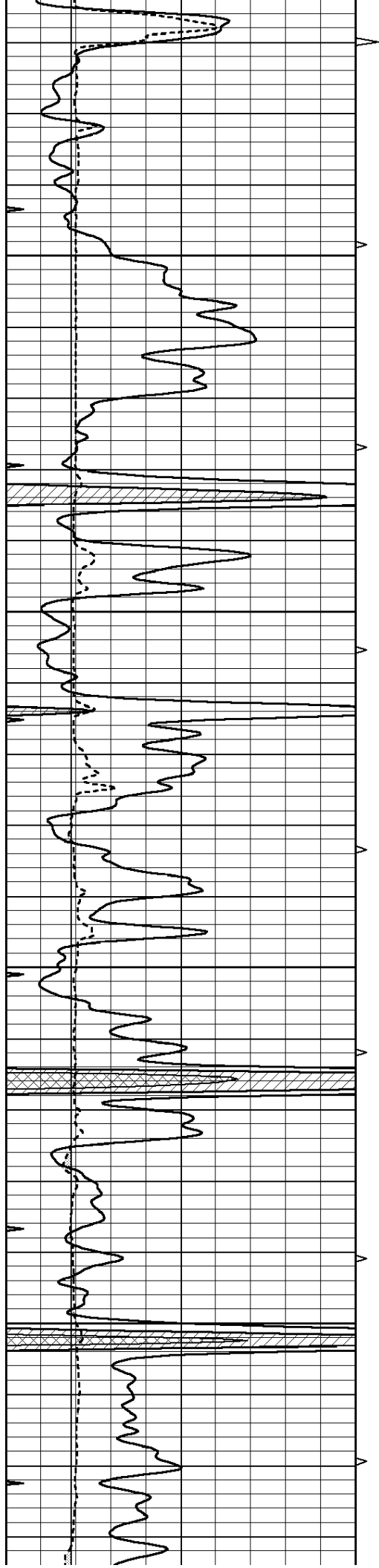
THANK YOU FOR USING SUPERIOR WELL SERVICE HAYS, KANSAS (785) 628-6395
DIRECTIONS
GOVE, KS. 10 MILES SOUTH, WEST 10 MILES ON RD I, SOUTH 1 MILE, EAST INTO

Database File: 409690ddn.db
Dataset Pathname: pass4.2
Presentation Format: den_neu
Dataset Creation: Sun Oct 07 22:51:58 2012 by Calc Open-Cased 110302
Charted by: Depth in Feet scaled 1:240

Charted by:		Depth in Feet scaled 1:2.10			
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		-0.25 CORRECTION (g/cc) 0.25
			0 (ft3) 10		





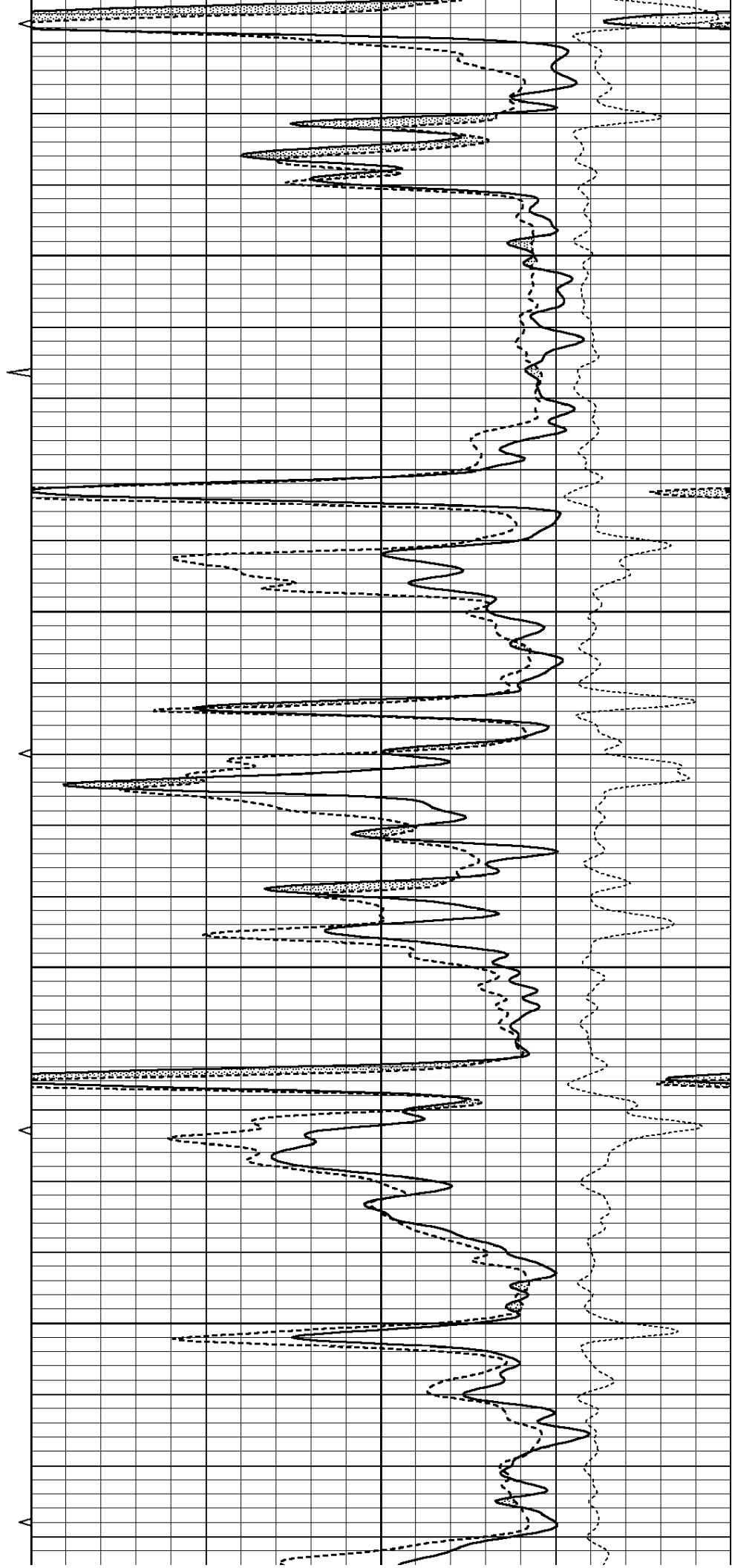


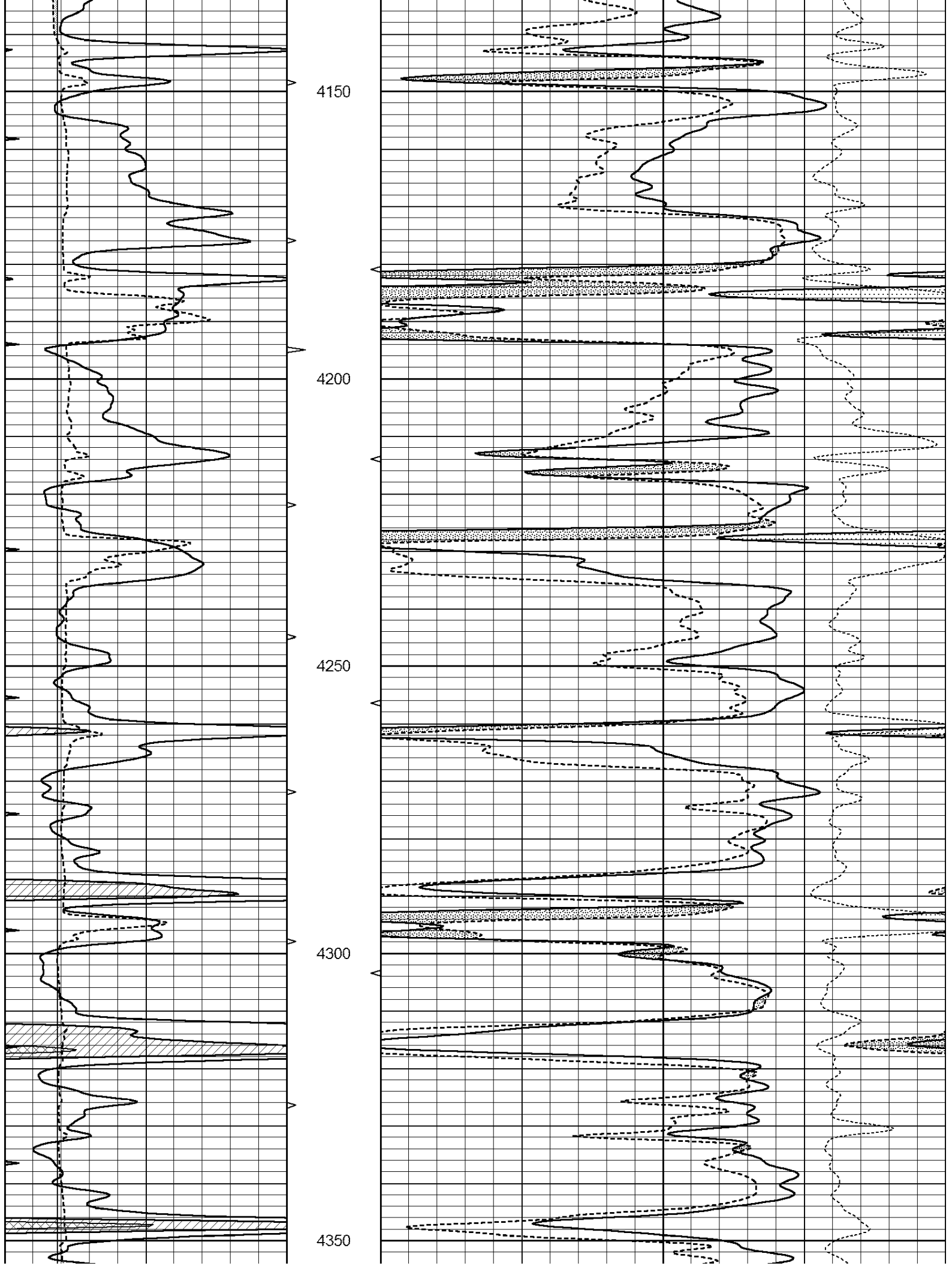
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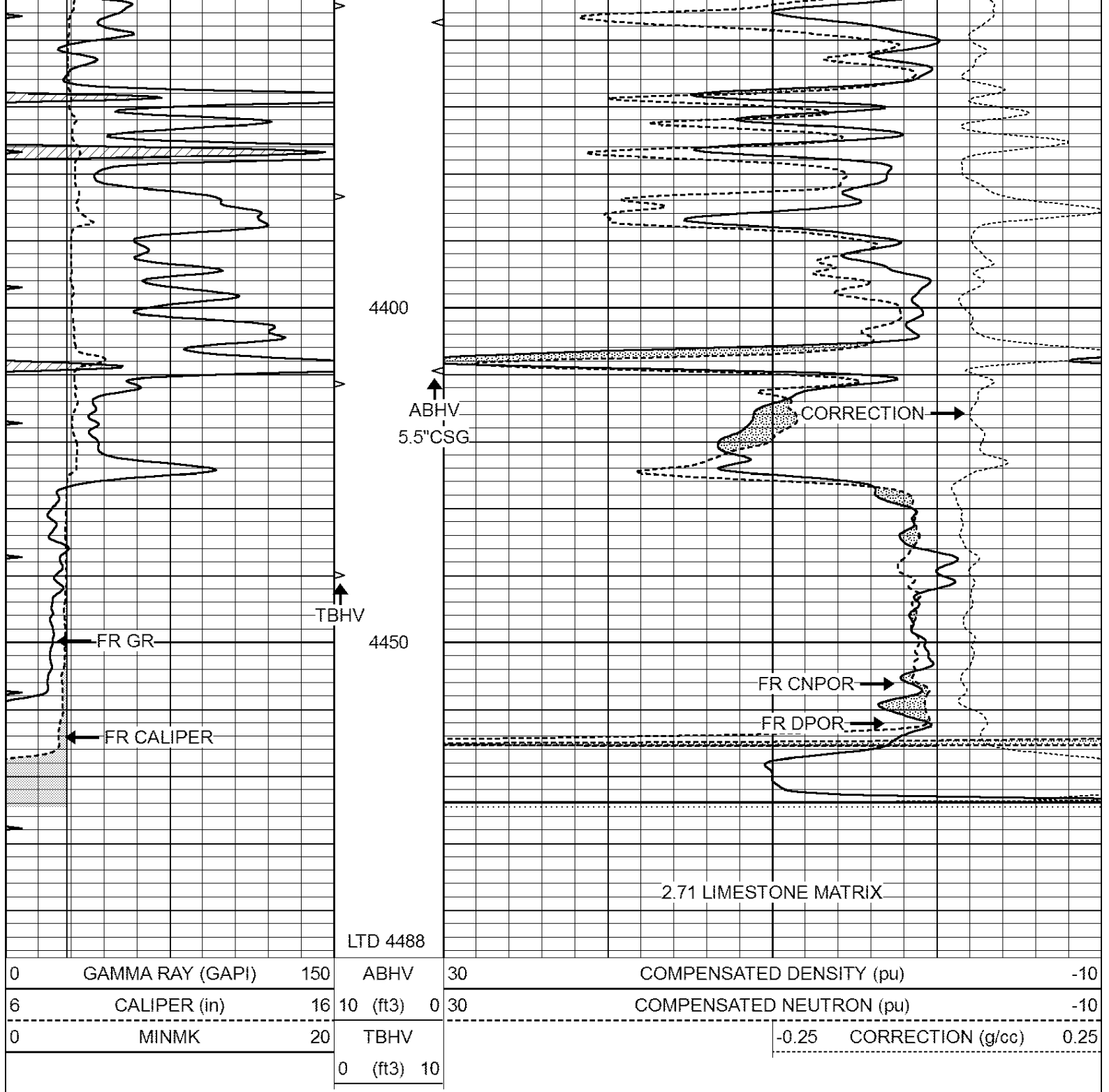
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4050

4100





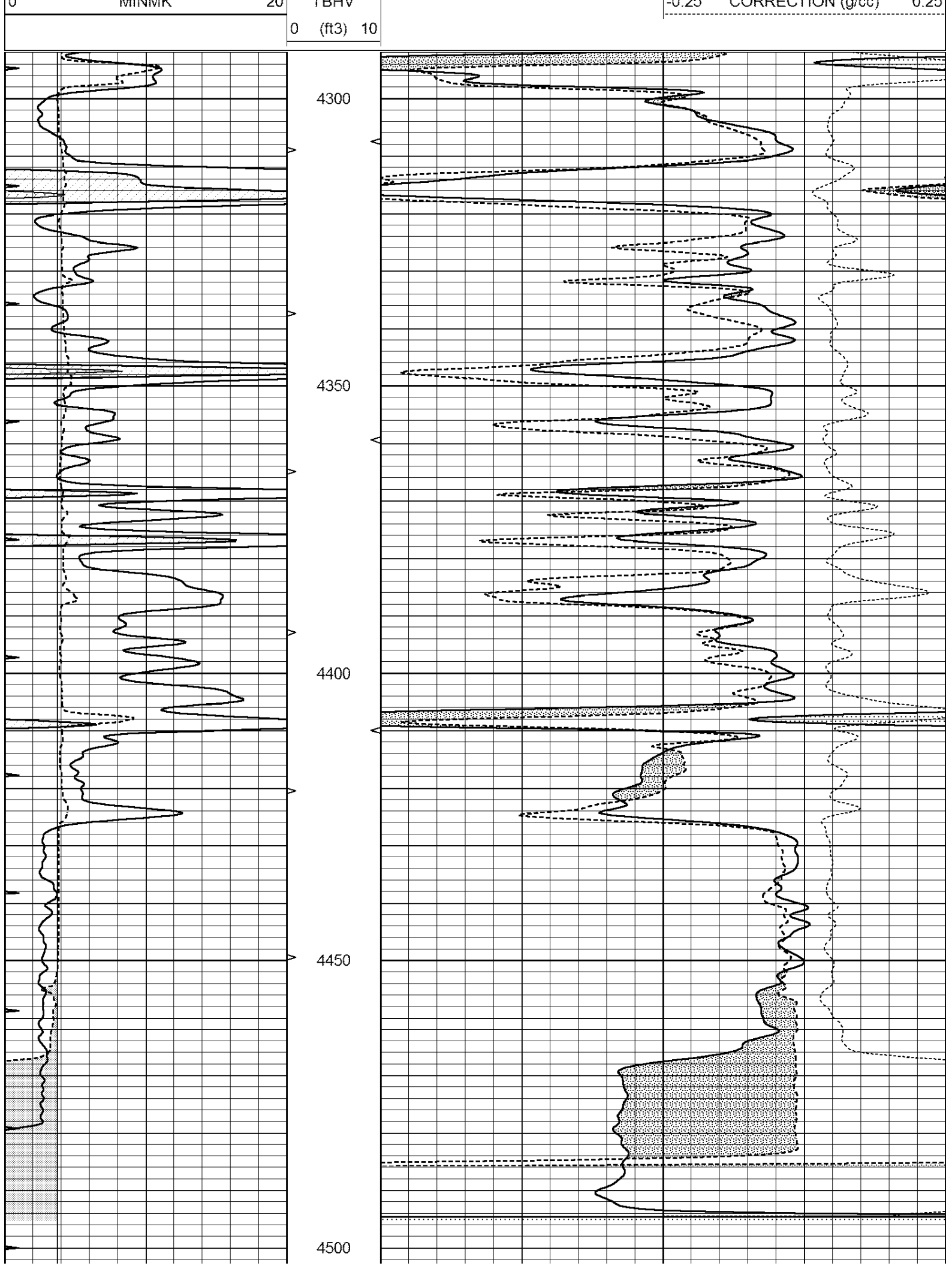


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REPEAT SECTION

Database File: 409690ddn.db
Dataset Pathname: pass3.4
Presentation Format: den_neu
Dataset Creation: Sun Oct 07 22:21:30 2012 by Calc Open-Cased 110302
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



Database File: 409690ddn.db

Dataset Pathname: pass4.2

Dataset Creation: Sun Oct 07 22:51:58 2012 by Calc Open-Cased 110302

Calibration Report

Dual Induction Calibration Report

Serial-Model:
Performed:

DIL3-GEAR
Mon Oct 01 18:43:03 2012

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.011	0.656	V	0.000	400.000	mmho/m	640.000	12.000
Medium	0.013	0.740	V	0.000	462.500	mmho/m	700.000	-6.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.002	0.645	V	0.000	400.000	mmho/m	622.059	-1.071
Medium	0.007	0.740	V	0.000	462.500	mmho/m	631.393	-4.555

Litho Density Calibration Report

Serial: 006 Model: PRB

Performed Sun Aug 15 09:48:41 2010

Litho Density Calibration

	Background	Magnesium	Aluminum	Sandstone	
Window 1	1686.6	11612.8	3932.0	12718.8	cps
Window 2	1531.4	9204.7	3267.8	9851.9	cps
Window 3	1198.3	4733.6	1952.5	4920.6	cps
Window 4	317.3	321.2	325.9	303.6	cps
Long Space	0.0	7673.3	1736.4	8320.4	cps
Short Space	1.7	2548.5	1657.2	2628.8	cps
Rho		1.7100	2.5900	1.3800	g/cc
Pe			2.5700	1.5500	
Rib Angle	: 43.8	Rib Slope	: 0.961	Density/Spine Ratio	: 0.569
Spine Angle	: 73.8	Spine Slope	: 3.453	Spine Intercept	: -18.1

Caliper

	Readings	Reference
Low Ref	3.5	6.7
High Ref	5.5	15.0
	Gain: 4.3	Offset: -8.6

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:	070559		
Tool Model:	OPEN_GR		
Performed:	Wed Sep 19 15:58:00 2012		
Calibrator Value:	1.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	1.0	cps	
Sensitivity:	0.3000	GAPI/cps	