



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

**COMPENSATED
DENSITY / NEUTRON
LOG**

Company	RITCHIE EXPLORATION, INC.		
Well	ROEMER #1-34C		
Field			
County	GOVE	State	KANSAS
Location:	API # : 15-063-22070		Other Services
	1700' FSL & 495' FWL		DIL
	SEC 34 TWP 12S RGE 29W		
Permanent Datum	GROUND LEVEL	Elevation	2685
Log Measured From	KELLY BUSHING 8' A.G.L.	K.B. 2693	
Drilling Measured From	KELLY BUSHING	D.F.	
		G.L. 2685	
Date	1-3-13		
Run Number	ONE		
Depth Driller	4520		
Depth Logger	4522		
Bottom Logged Interval	4498		
Top Log Interval	3350		
Casing Driller	238		
Casing Logger	237		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.3 / 52		
pH / Fluid Loss	10.5 / 6.4		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	1.25 @ 68F		
Rmf @ Meas. Temp	0.94 @ 68F		
Rmc @ Meas. Temp	1.50 @ 68F		
Source of Rmf / Rmc	MEASURED		
Rim @ BHT	.710 @ 120F		
Time Circulation Stopped	2:15 P.M.		
Time Logger on Bottom	3:00 P.M.		
Maximum Recorded Temperature	120F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	RUPP		
Witnessed By	TERRY McLEOD		

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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 CO.
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: GOVE, 1 1/2W TO RD. #40, 1/2N, E INTO.



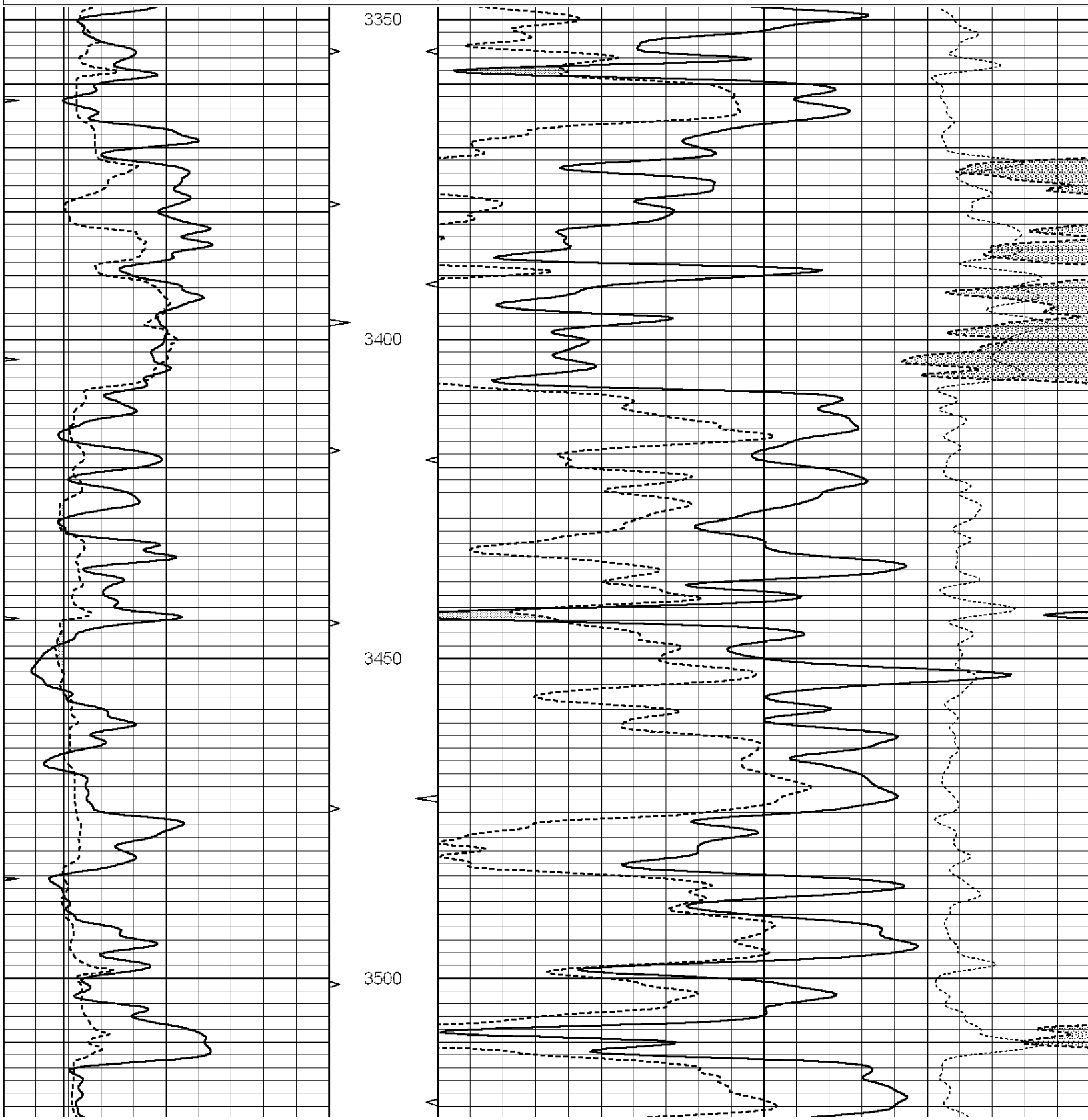
NABORS

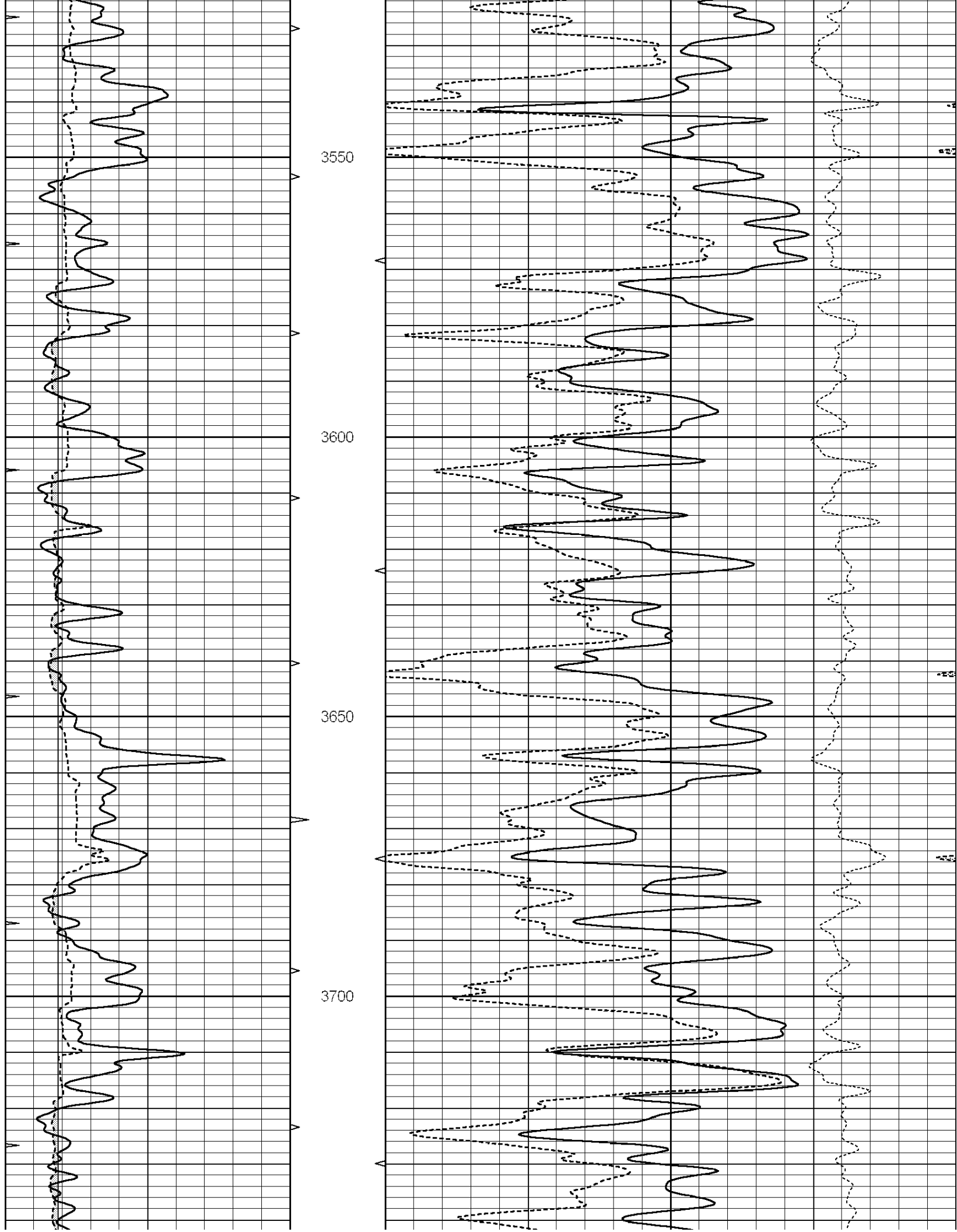
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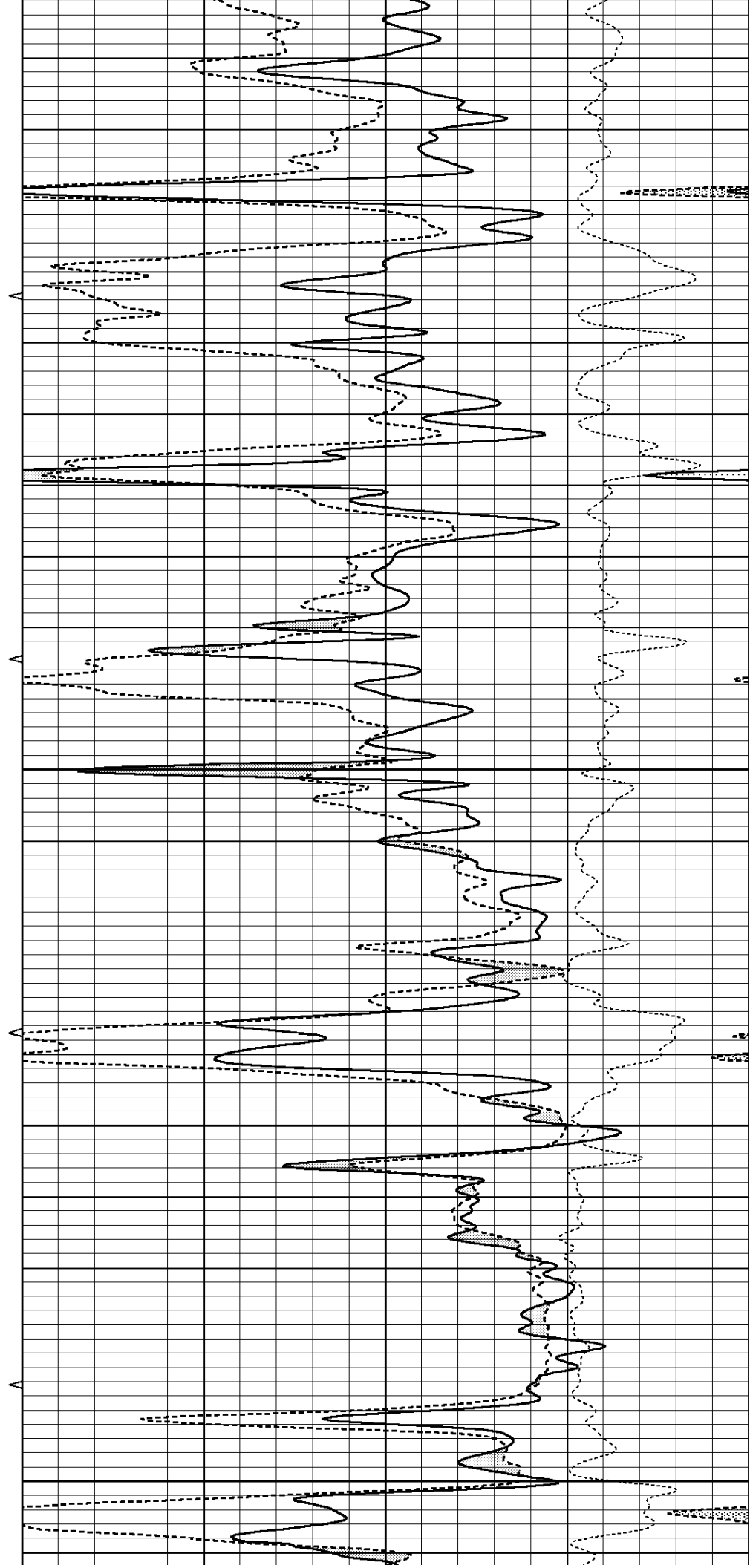
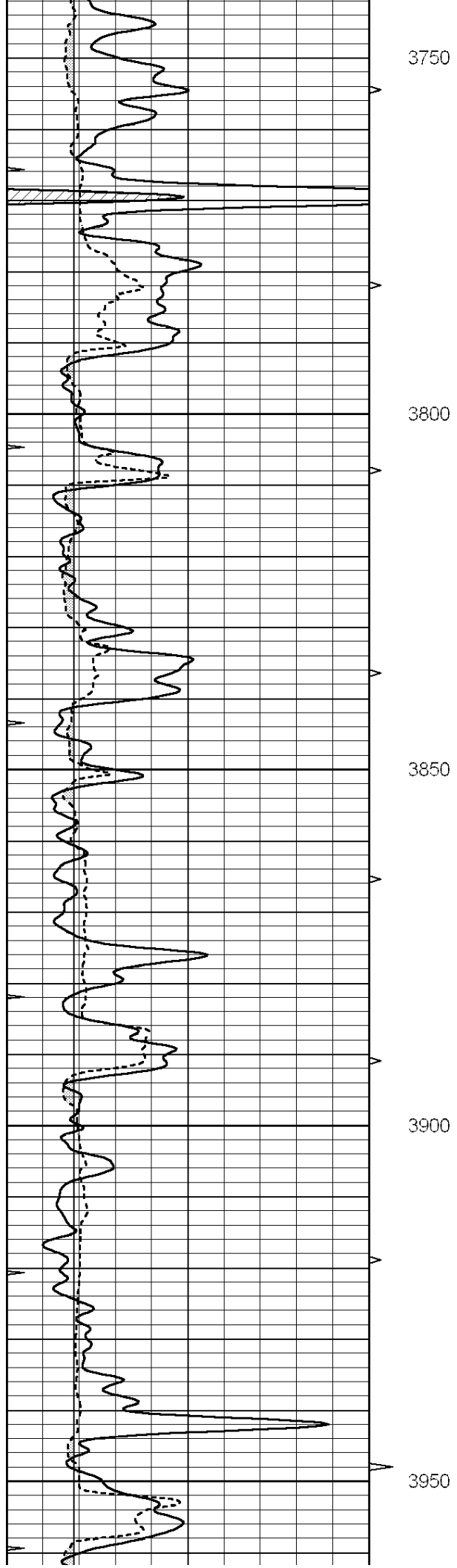
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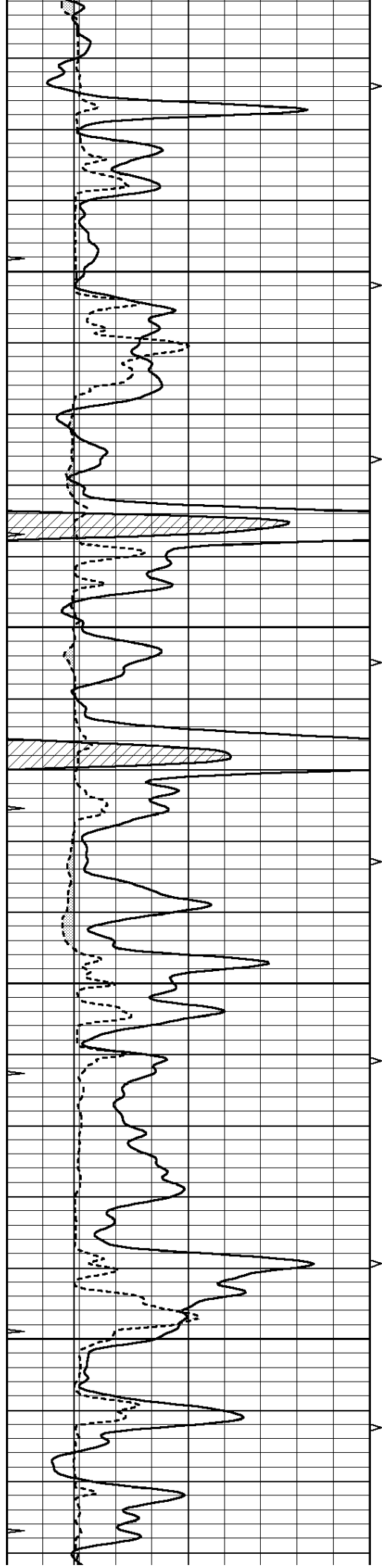
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 Dataset Pathname: pass6.A
 Presentation Format: ldt_neu
 Dataset Creation: Thu Jan 03 17:56:42 2013
 Charted by: Depth in Feet scaled 1:240

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		







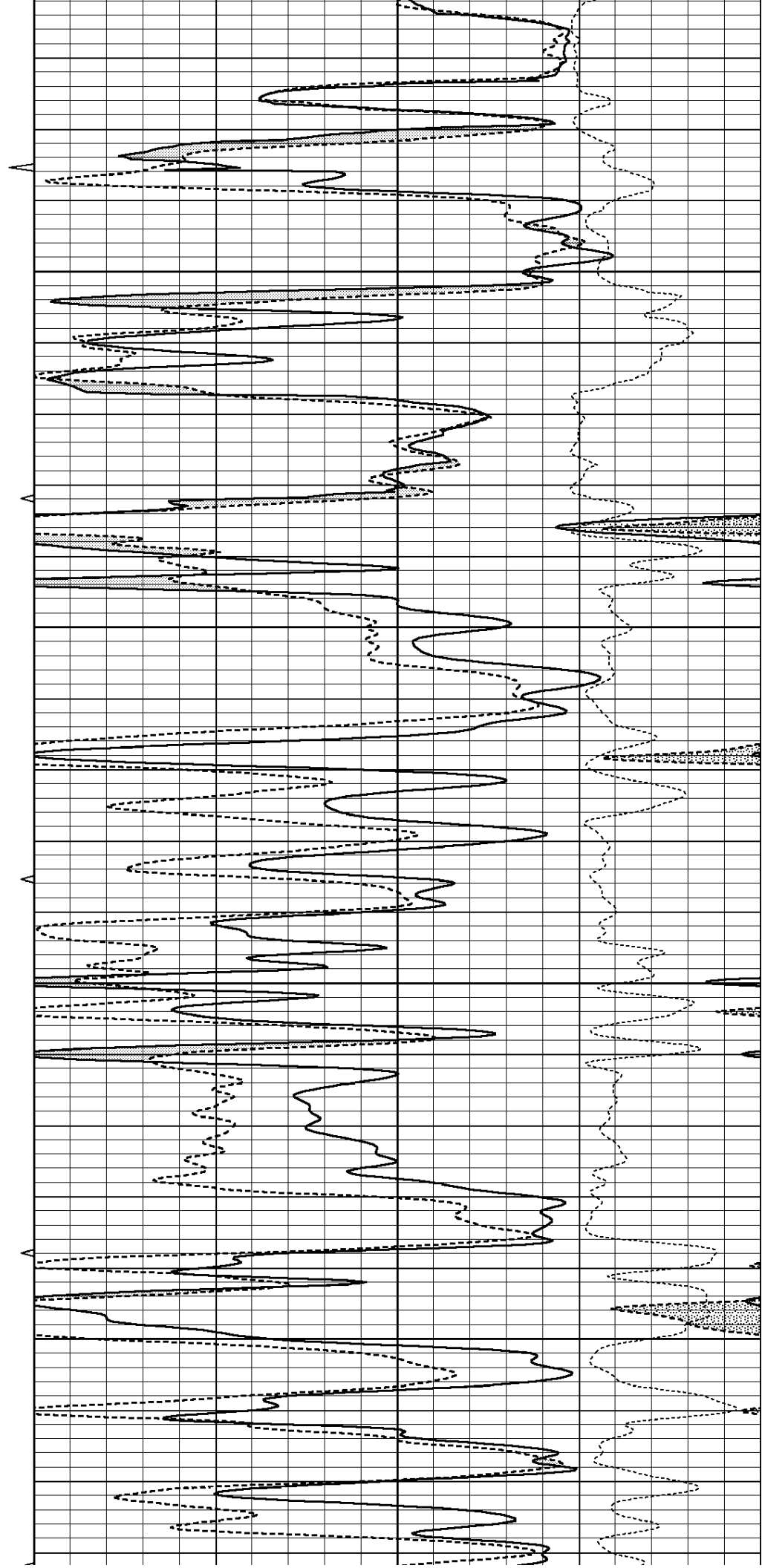


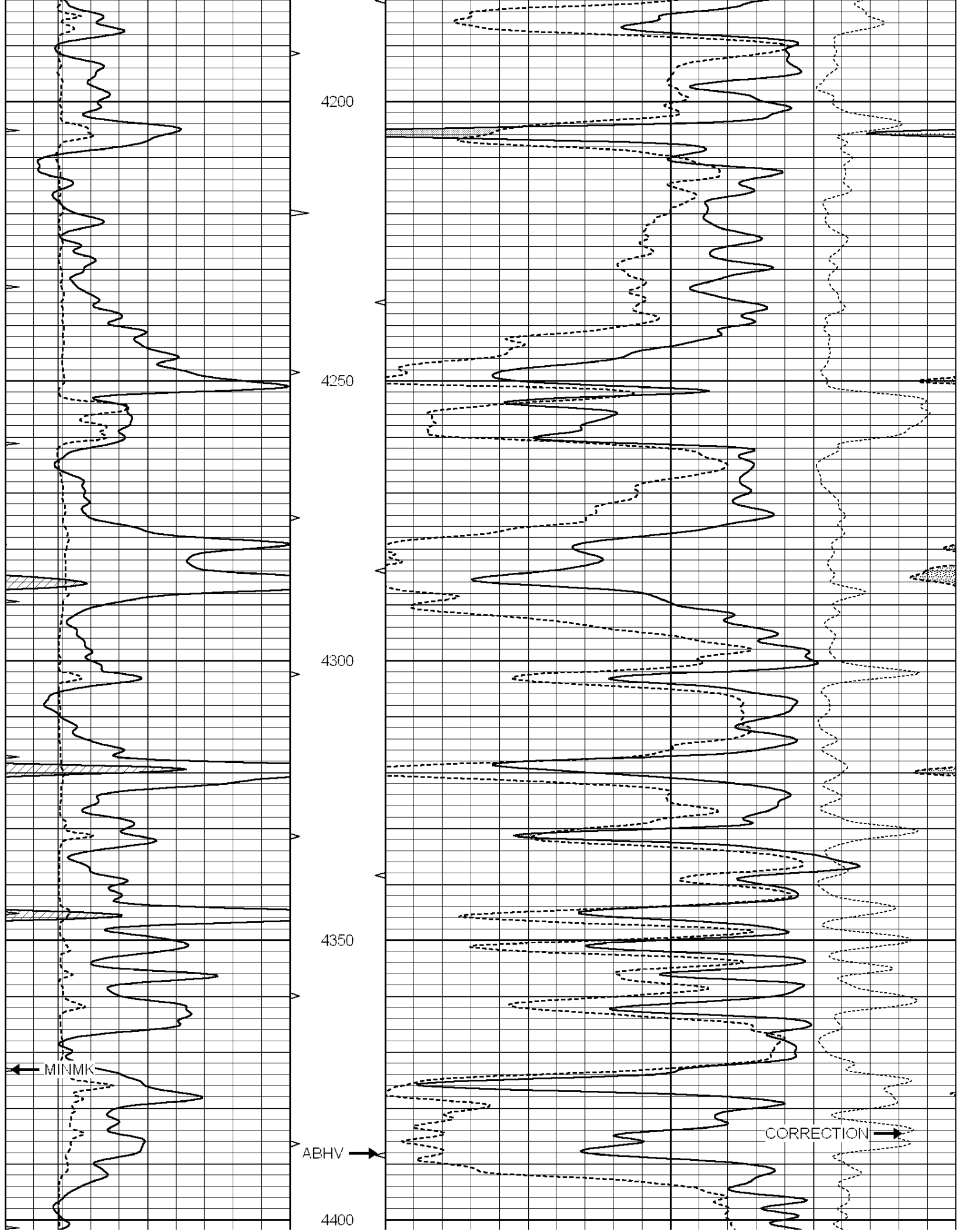
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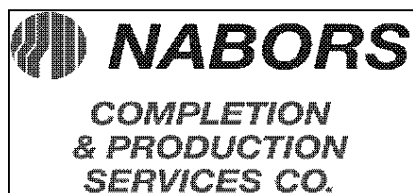
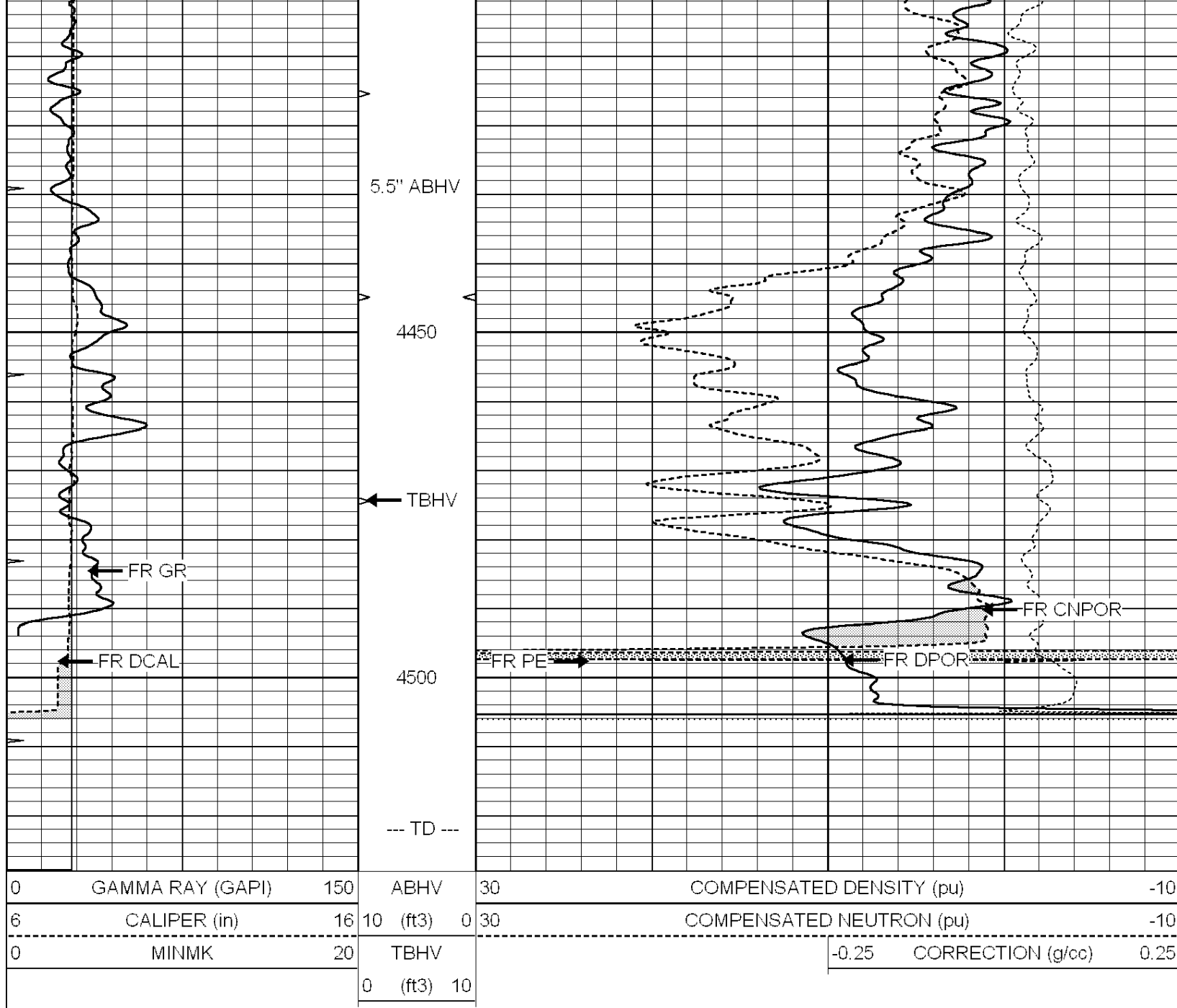
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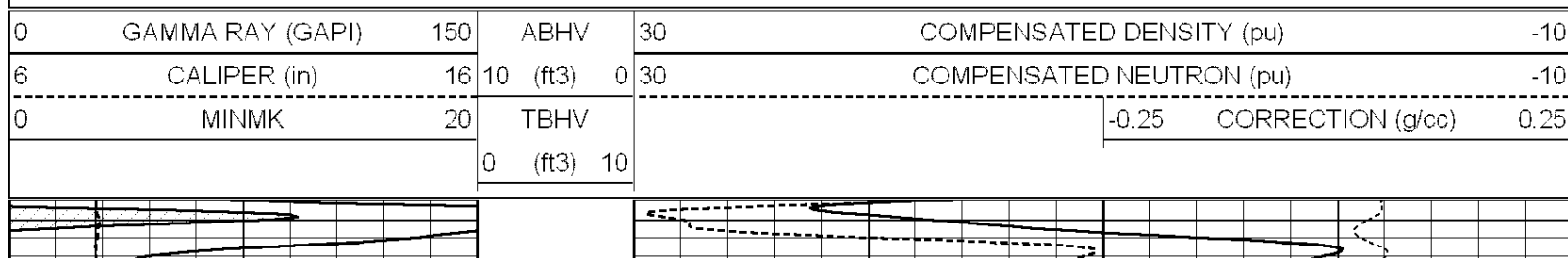


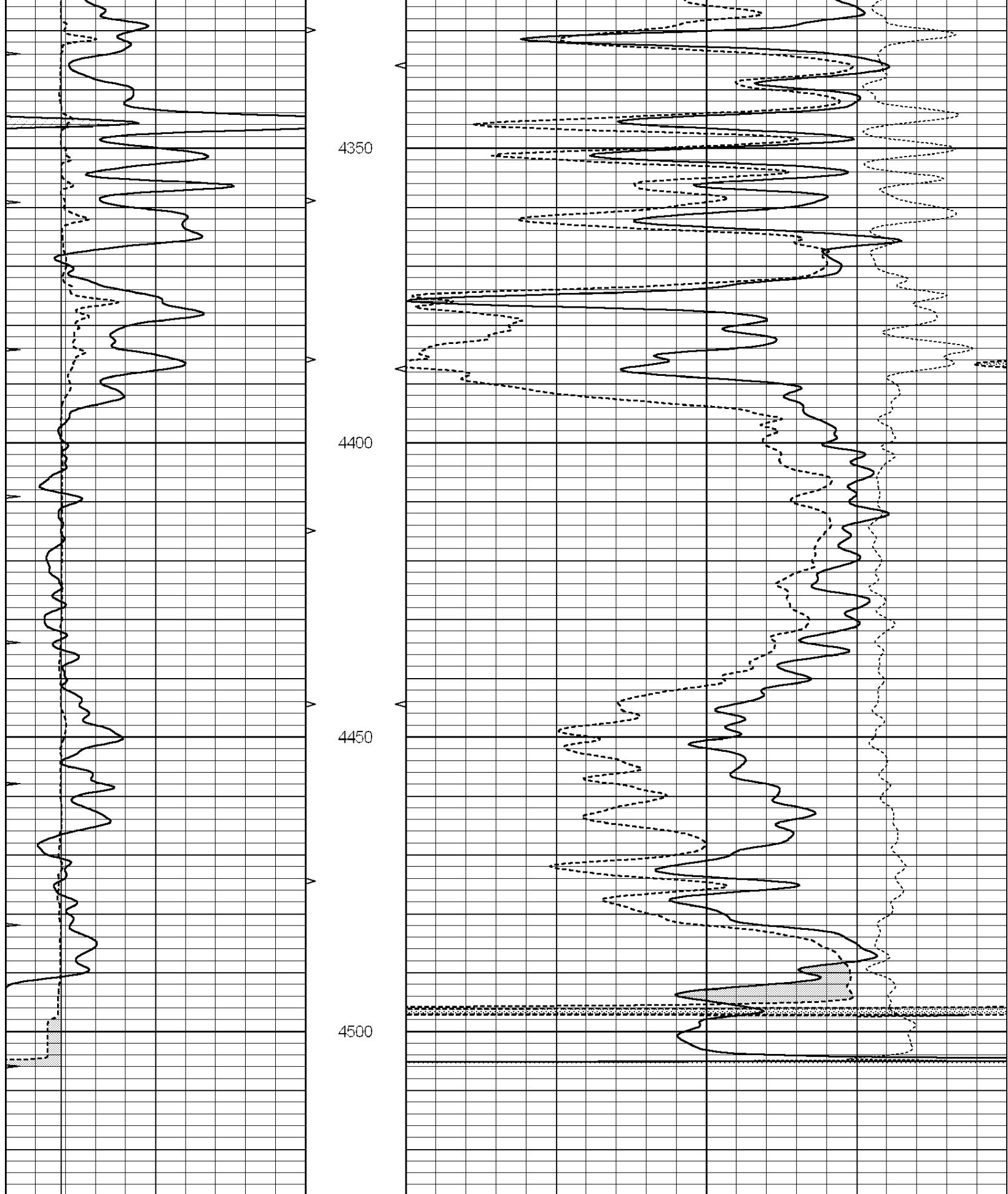




REPEAT SECTION

Database File: 010171ddn.db
 Dataset Pathname: pass5.A
 Presentation Format: ldt_neu
 Dataset Creation: Thu Jan 03 18:18:09 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			0 (ft3) 10			

Calibration Report	
Database File:	010171ddn.db
Dataset Pathname:	pass6.A
Dataset Creation:	Thu Jan 03 17:56:42 2013

Dual Induction Calibration Report

Serial-Model:	DIL5-GEAR
Performed:	Thu Jan 03 15:26:08 2013

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.004	0.654	V	0.000	400.000	mmho/m	450.000	-9.000
Medium	-0.005	0.737	V	0.000	462.500	mmho/m	500.000	-5.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.006	0.655	V	0.000	400.000	mmho/m	615.668	-3.483
Medium	0.010	0.747	V	0.000	462.500	mmho/m	627.607	-6.064

Litho Density Calibration Report
 Serial: 002 Model: PRB
 Performed Mon Apr 02 17:56:53 2012

Litho Density Calibration					
	Background	Magnesium	Aluminum	Sandstone	
Window 1	872.3	7266.3	2292.6	7931.5	cps
Window 2	822.9	5957.5	1958.0	6389.6	cps
Window 3	670.4	3219.9	1211.9	3388.2	cps
Window 4	201.6	201.1	202.3	204.6	cps
Long Space	0.0	5134.6	1135.0	5566.6	cps
Short Space	1.1	994.2	674.4	1059.2	cps
Rho		1.7100	2.5960	1.3800	g/cc
Pe			2.5700	1.5500	
Rib Angle	: 45.6	Rib Slope	: 1.020	Density/Spine Ratio	: 0.569
Spine Angle	: 75.6	Spine Slope	: 3.888	Spine Intercept	: -18.3

Caliper	Readings	Reference
Low Ref	4.3	8.4
High Ref	6.1	14.0
Gain: 3.0		Offset: -4.4

Compensated Neutron Calibration Report

Serial Number:	NUE_2I
Tool Model:	G

CALIBRATION					
Detector	Readings		Target	Normalization	
Short Space	1.00	cps	1.00	cps	1.0000
Long Space	1.00	cps	1.00	cps	1.0000

Gamma Ray Calibration Report

Serial Number:	GR2
Tool Model:	OPEN
Performed:	Thu Jan 03 16:39:00 2013

Calibrator Value:	200.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	740.0	cps
Sensitivity:	1.9000	GAPI/cps