



**COMPLETION
& PRODUCTION
SERVICES CO.**

**COMPENSATED
DENSITY / NEUTRON
LOG**

Company	DOWNING-NELSON OIL COMPANY, INC.		
Well	SCHMIDT "B" #11		
Field	CATHARINE		
County	ELLIS	State	KANSAS
Location:	API # : 15-051-26681-00-00		Other Services
	1000' FNL & 1320' FEL S2 - S2 - N2-NE		DIL/MEL
	SEC 3 TWP 13S RGE 17W		Elevation
Permanent Datum	GROUND LEVEL	Elevation	2051
Log Measured From	KELLY BUSHING 8' A.G.L.	D.F.	2057
Drilling Measured From	KELLY BUSHING	G.L.	2051
Date	4-11-14		
Run Number	ONE		
Depth Driller	3700		
Depth Logger	3700		
Bottom Logged Interval	3676		
Top Log Interval	2800		
Casing Driller	8 5/8 " @ 214'		
Casing Logger	215'		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES	3.000
Density / Viscosity	9.3 / 54		
pH / Fluid Loss	10.0 / 8.8		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	1.0 @ 60F		
Rmf @ Meas. Temp	0.75 @ 60F		
Rmc @ Meas. Temp	1.20 @ 60F		
Source of Rmf / Rmc	MEASURED		
Rim @ BHT	0.40 @ 113F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	114F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	IAN MABB		
Witnessed By	RON NELSON		

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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.

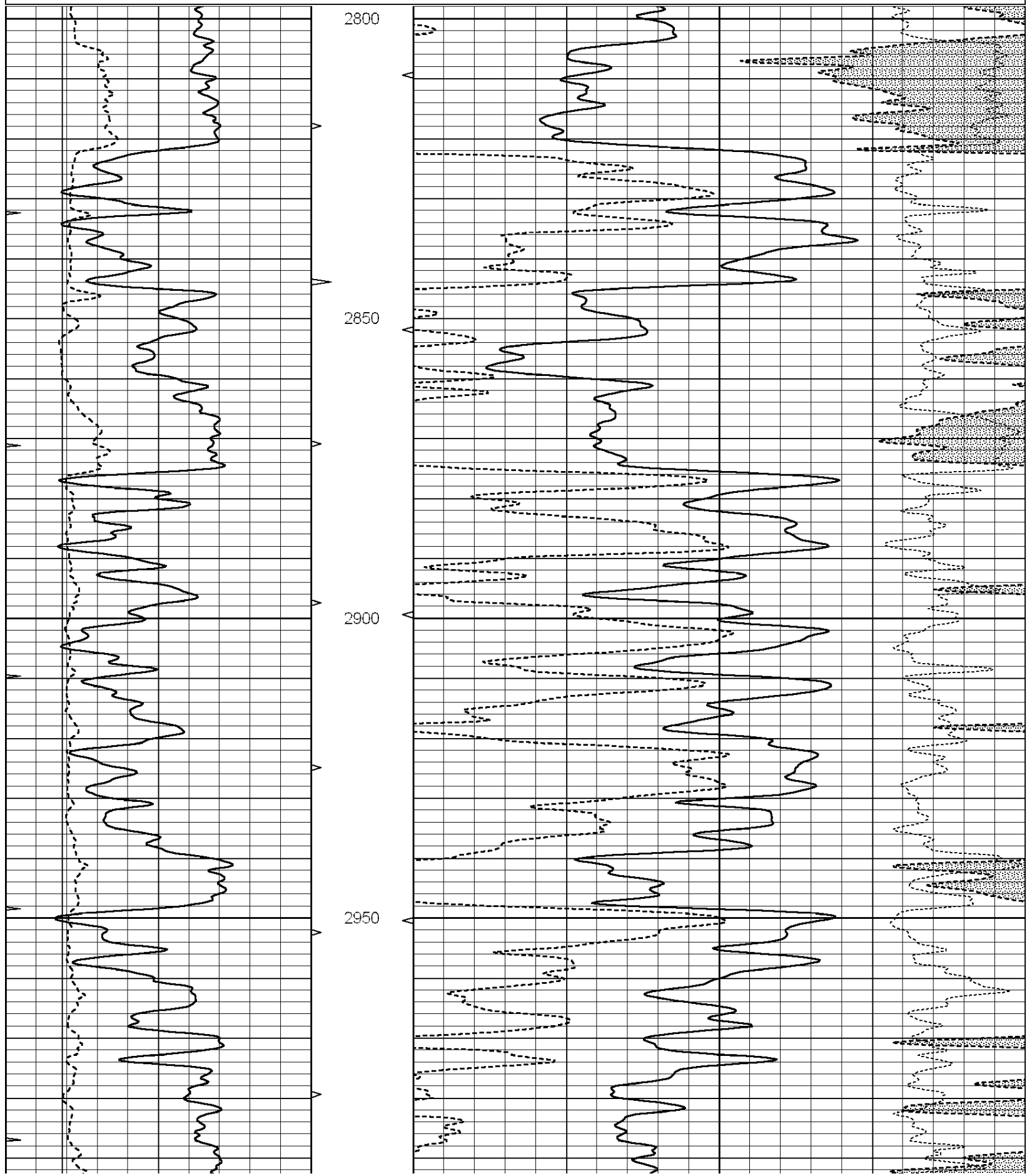
Comments

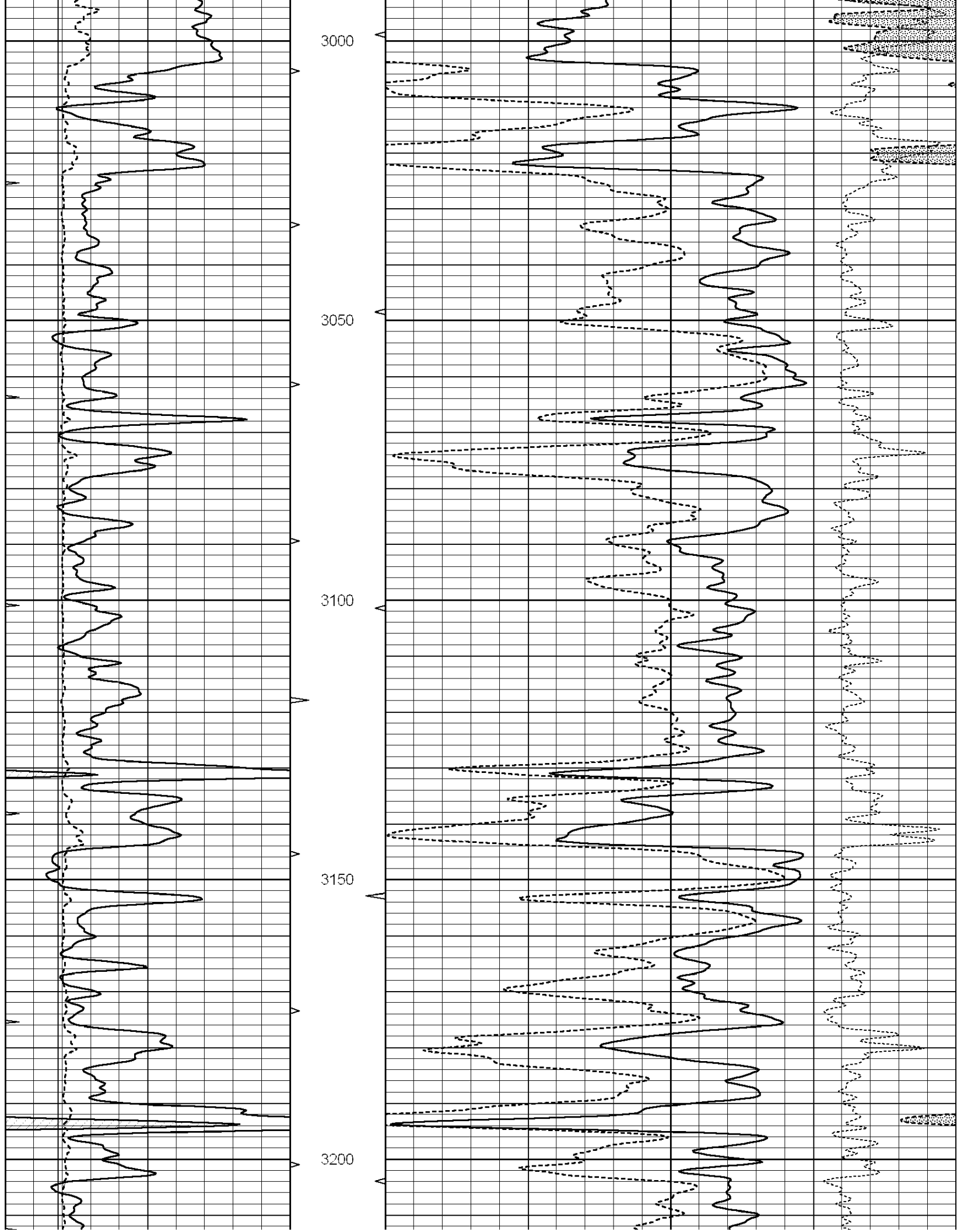
NABORS COMPLETION & PRODUCTION SERVICES
785-628-6395

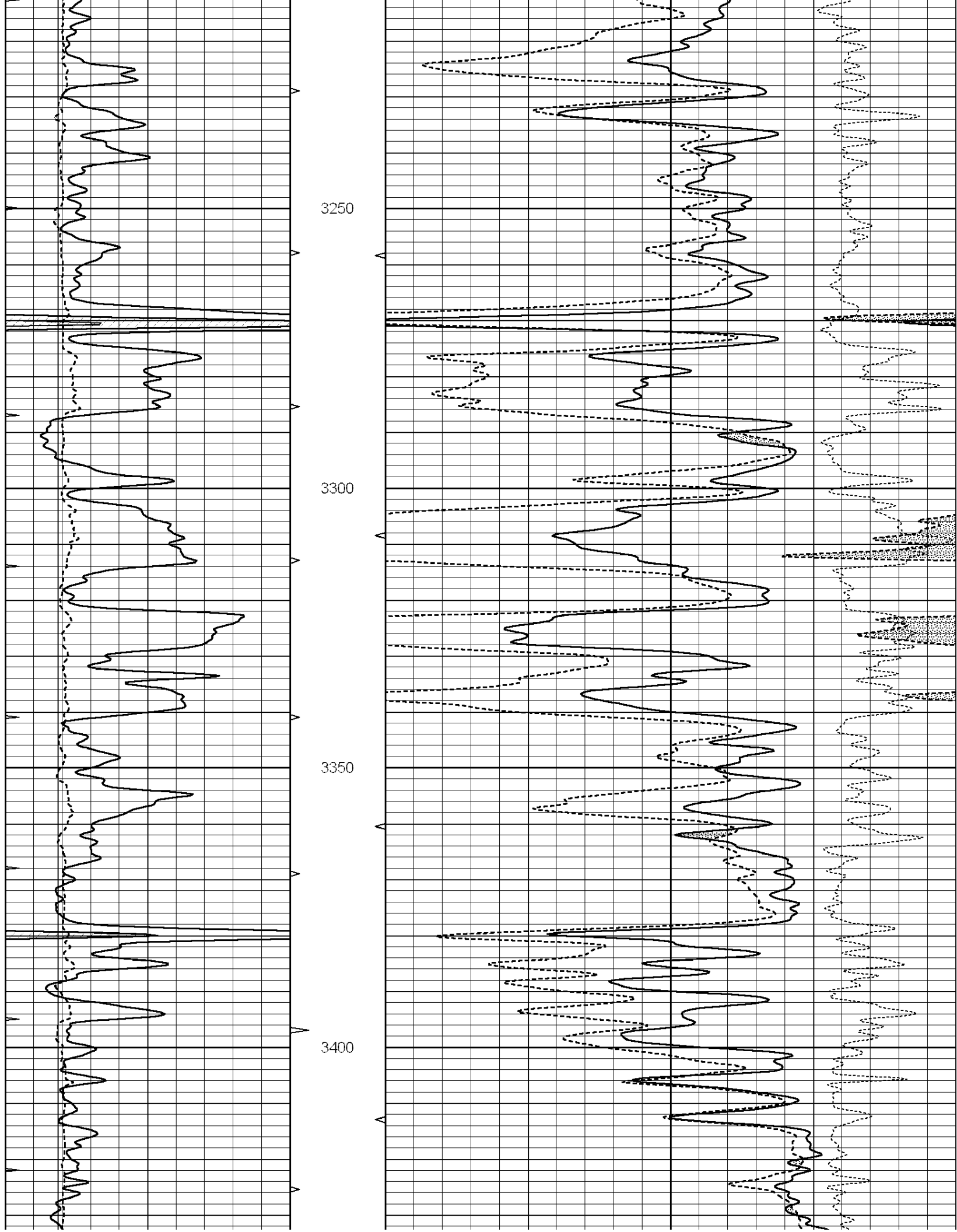
THANK YOU FOR YOUR BUSINESS

DIRECTIONS: CATHARINE, KS. EAST TO CODEL RD. - NORTH 2 MILES - WEST 1/4 - SOUTH INTO

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			









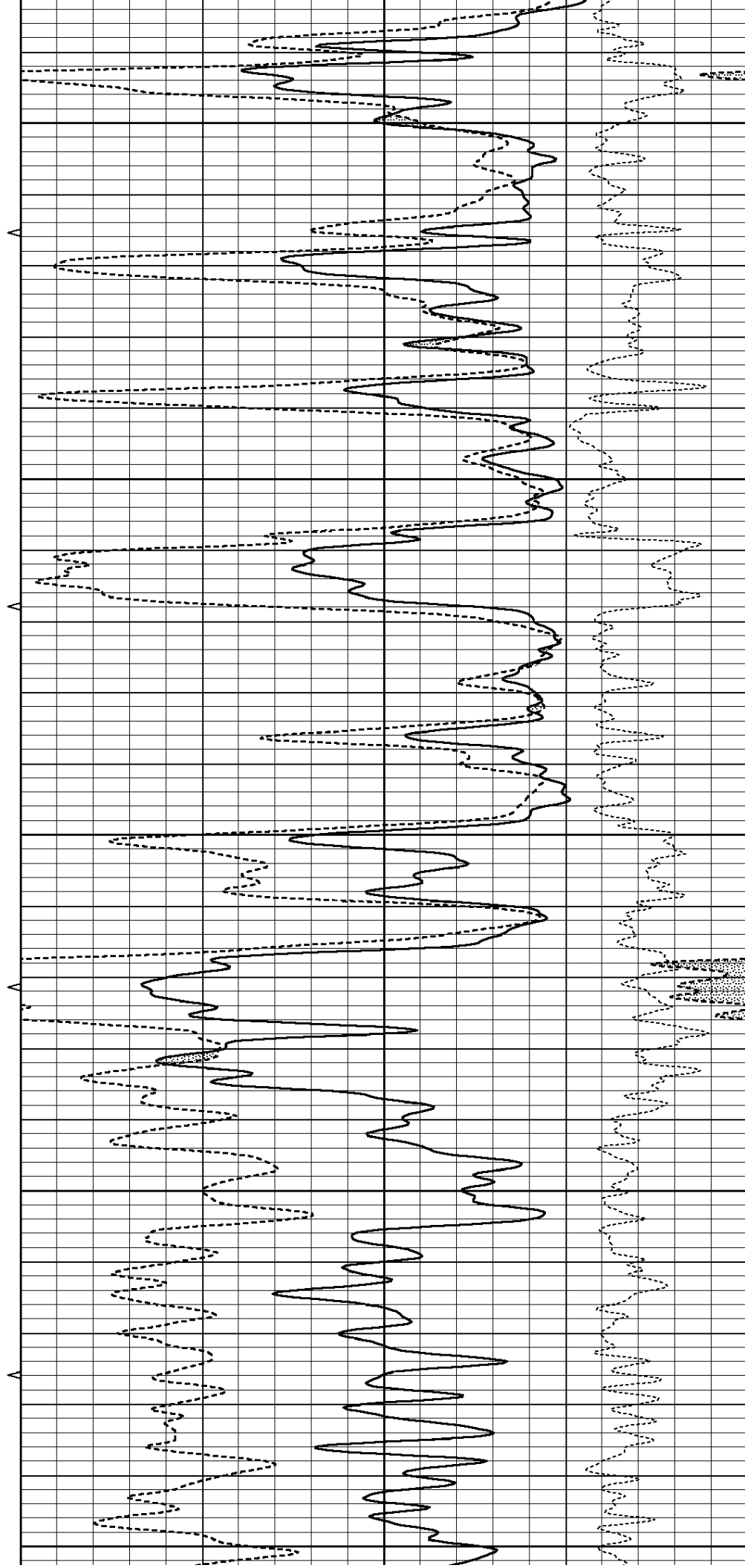
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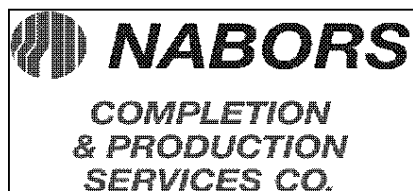
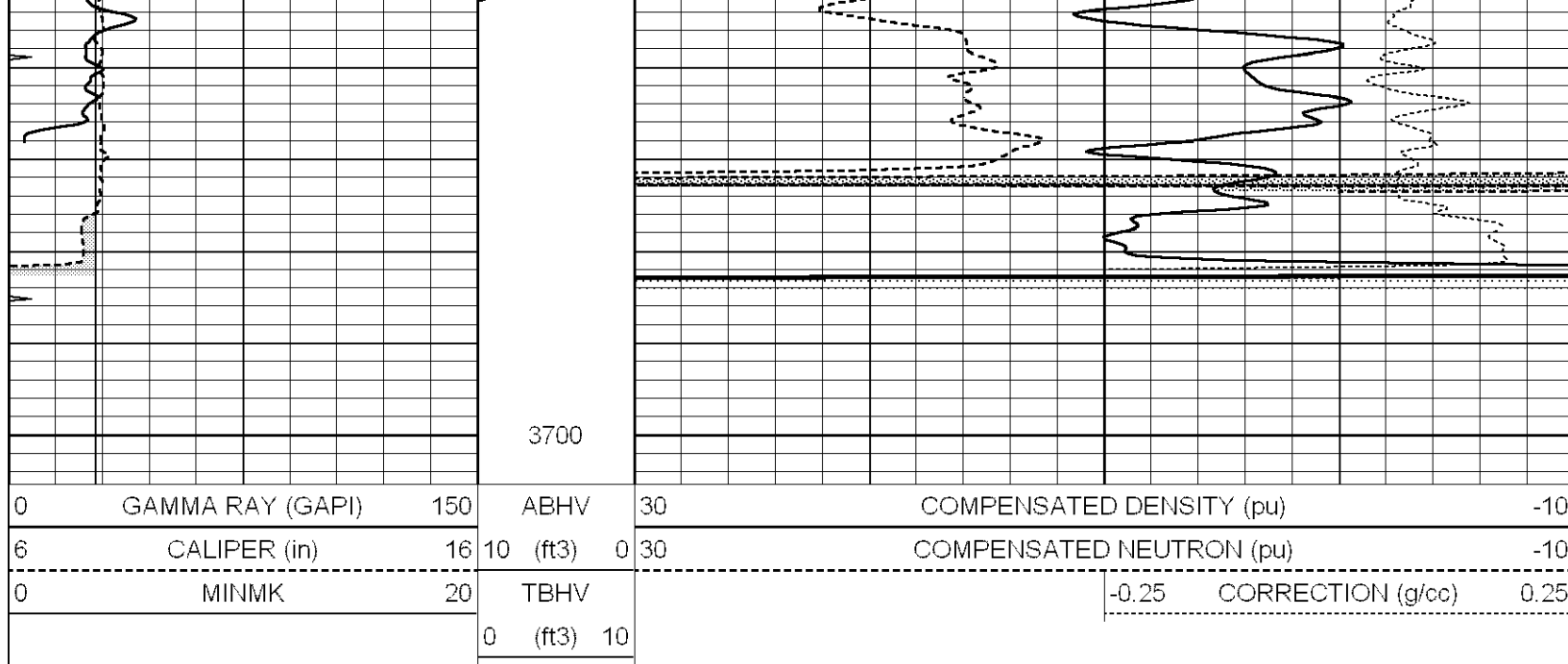
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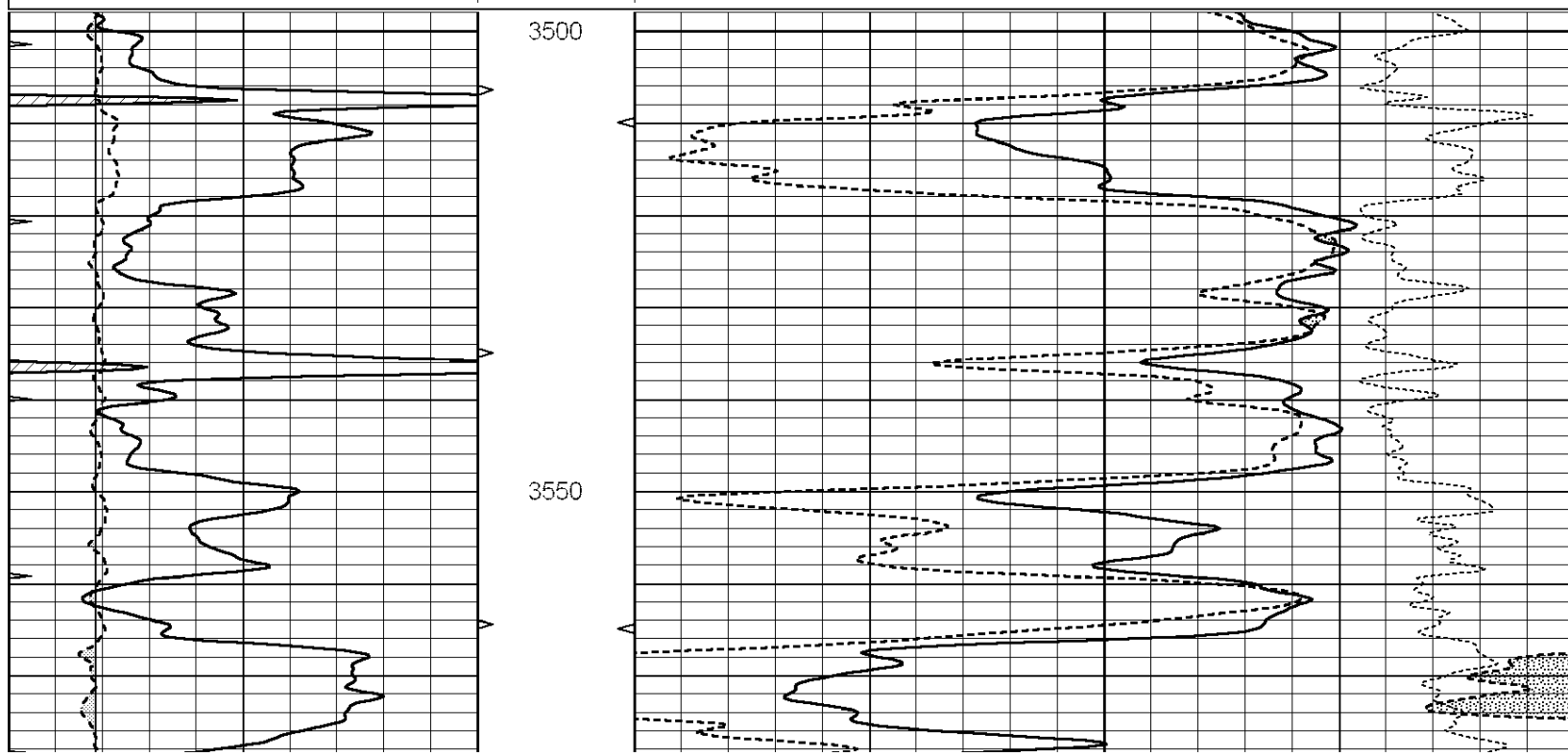
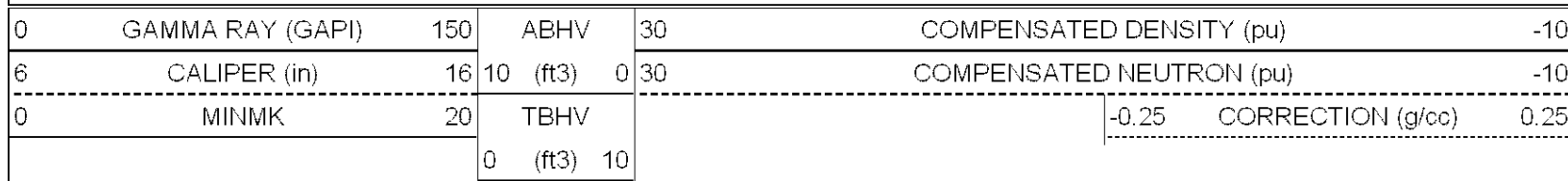
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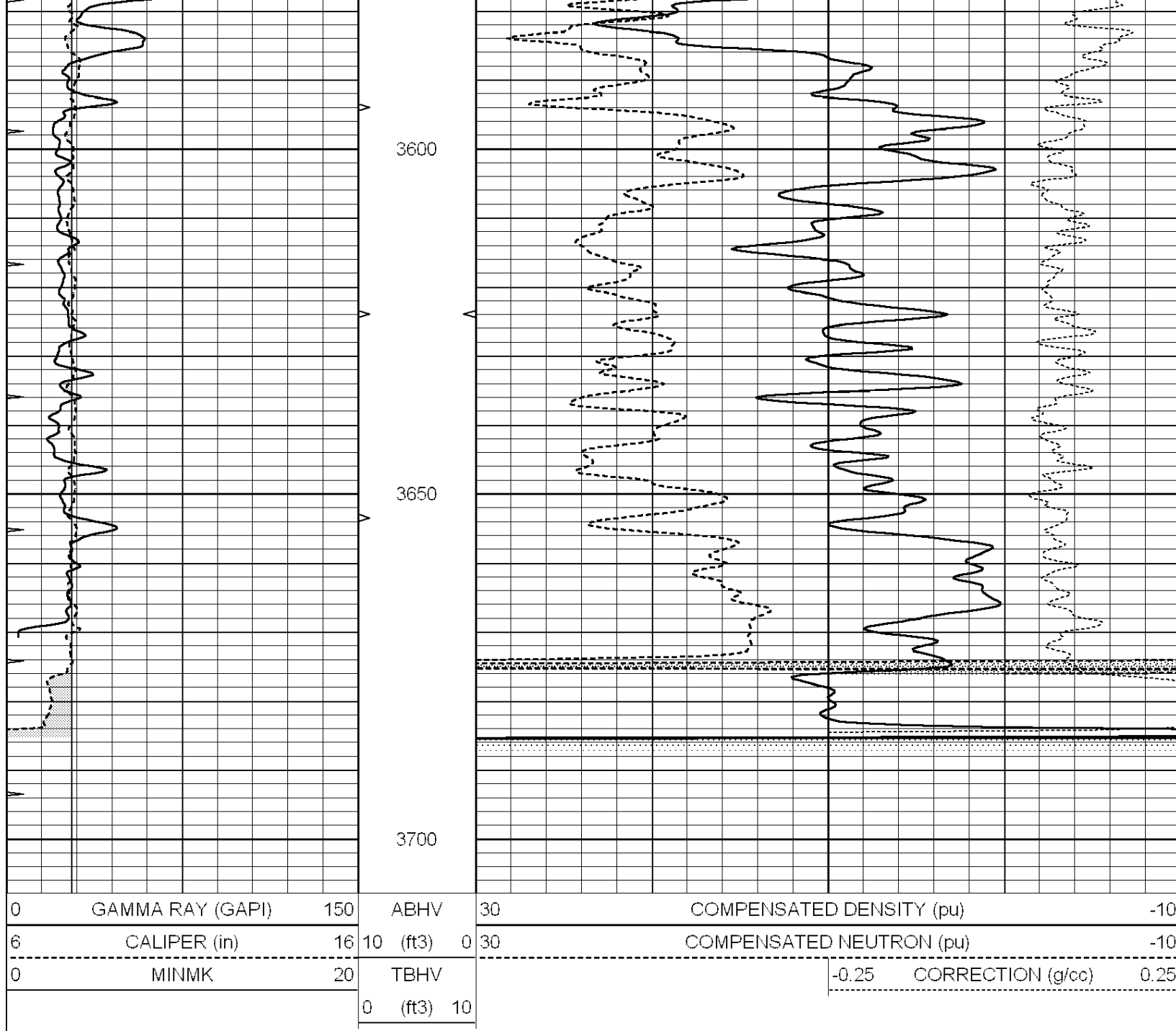




REPEAT SECTION

Database File: 241235ddn.db
 Dataset Pathname: pass2.2
 Presentation Format: _den_neu
 Dataset Creation: Fri Apr 11 23:32:00 2014 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240





Calibration Report								
Database File:		241235ddn.db						
Dataset Pathname:		pass2.3						
Dataset Creation:		Sat Apr 12 00:04:28 2014 by Calc Open-Cased 090629						
Dual Induction Calibration Report								
Serial-Model: Performed:				DIL3-GEAR Tue Apr 01 19:32:51 2014				
Readings			References				Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.011	0.656	V	0.000	400.000	mmho/m	500.000	5.000
Medium	0.013	0.740	V	0.000	462.500	mmho/m	540.000	-2.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.002	0.645	V	0.000	400.000	mmho/m	560.000	-1.071

Medium	0.007	0.740	V	0.000	462.500	mmho/m	540.000	-4.000
Compensated Density Calibration Report								
Serial-Model:			GEAR1-GEARHART					
Source / Verifier:			147 / 147					
Master Calibration Performed:			Tue Apr 01 19:31:33 2014					
Master Calibration								
	Density			Far Detector		Near Detector		
Magnesium	1.710	g/cc		1211.27		625.92		cps
Aluminum	2.590	g/cc		267.11		413.26		cps
Spine Angle = 74.64				Density/Spine Ratio = 0.561				
	Size			Reading				
Small Ring	8.20	in		5.18		V		
Large Ring	14.00	in		8.18		V		
Compensated Neutron Calibration Report								
Serial Number:			080620					
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:			7					
Tool Model:			Probe1					
Performed:			Tue Apr 01 19:11:08 2014					
Calibrator Value:			1.0		GAPI			
Background Reading:			0.0		cps			
Calibrator Reading:			1.0		cps			
Sensitivity:			0.4500		GAPI/cps			