



**COMPLETION
& PRODUCTION
SERVICES CO.**

**COMPENSATED
DENSITY / NEUTRON
LOG**

Company	CHARTER ENERGY, INC.	Company	CHARTER ENERGY, INC.
Well	CONCEPT #1	Well	CONCEPT #1
Field	WOOD NORTHWEST	Field	WOOD NORTHWEST
County	STAFFORD	County	STAFFORD
State	KANSAS	State	KANSAS
Location:	API # : 15-185-23838-00-00 2,310' FNL & 2,293' FEL E2 - SW - SW - NE	Other Services MEL/DIL	
Permanent Datum Log Measured From Drilling Measured From	GROUND LEVEL KELLY BUSHING 6' A.G.L. KELLY BUSHING	Elevation K.B. 1963 D.F. 1961 G.L. 1957	
Date	12/2/13		
Run Number	ONE		
Depth Driller	4095		
Depth Logger	4096		
Bottom Logged Interval	4072		
Top Log Interval	3200		
Casing Driller	8 5/8 @ 462		
Casing Logger	462		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.3 / 28		
pH / Fluid Loss	7.0 / N/A		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	0.51 @ 53F		
Rmf @ Meas. Temp	0.38 @ 53F		
Rmc @ Meas. Temp	0.61 @ 53F		
Source of Rmf / Rmc	MEASURED		
Rim @ BHT	0.23 @ 117F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	117F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	IAN MABB		
Witnessed By	KURT TALBOTT		

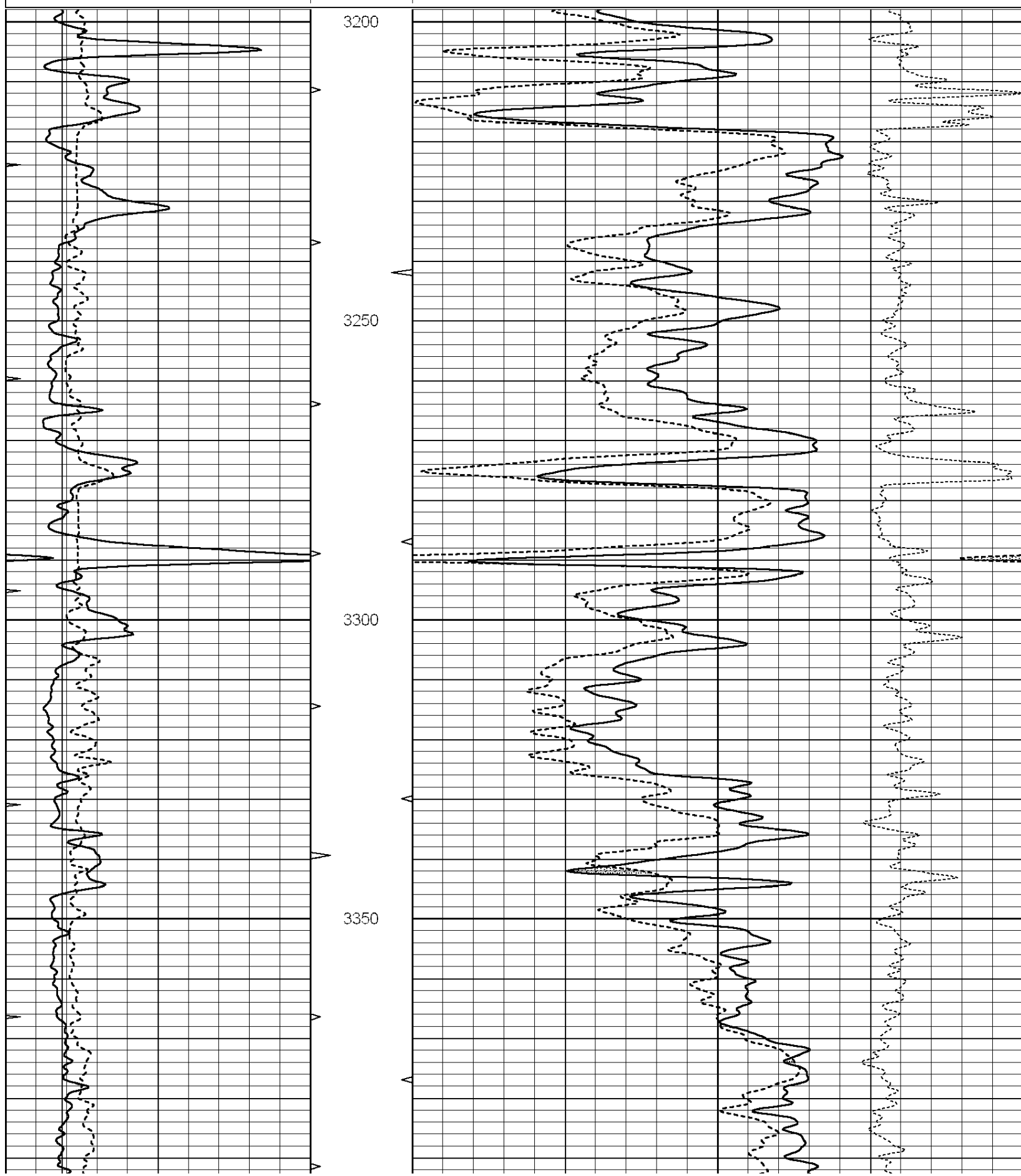
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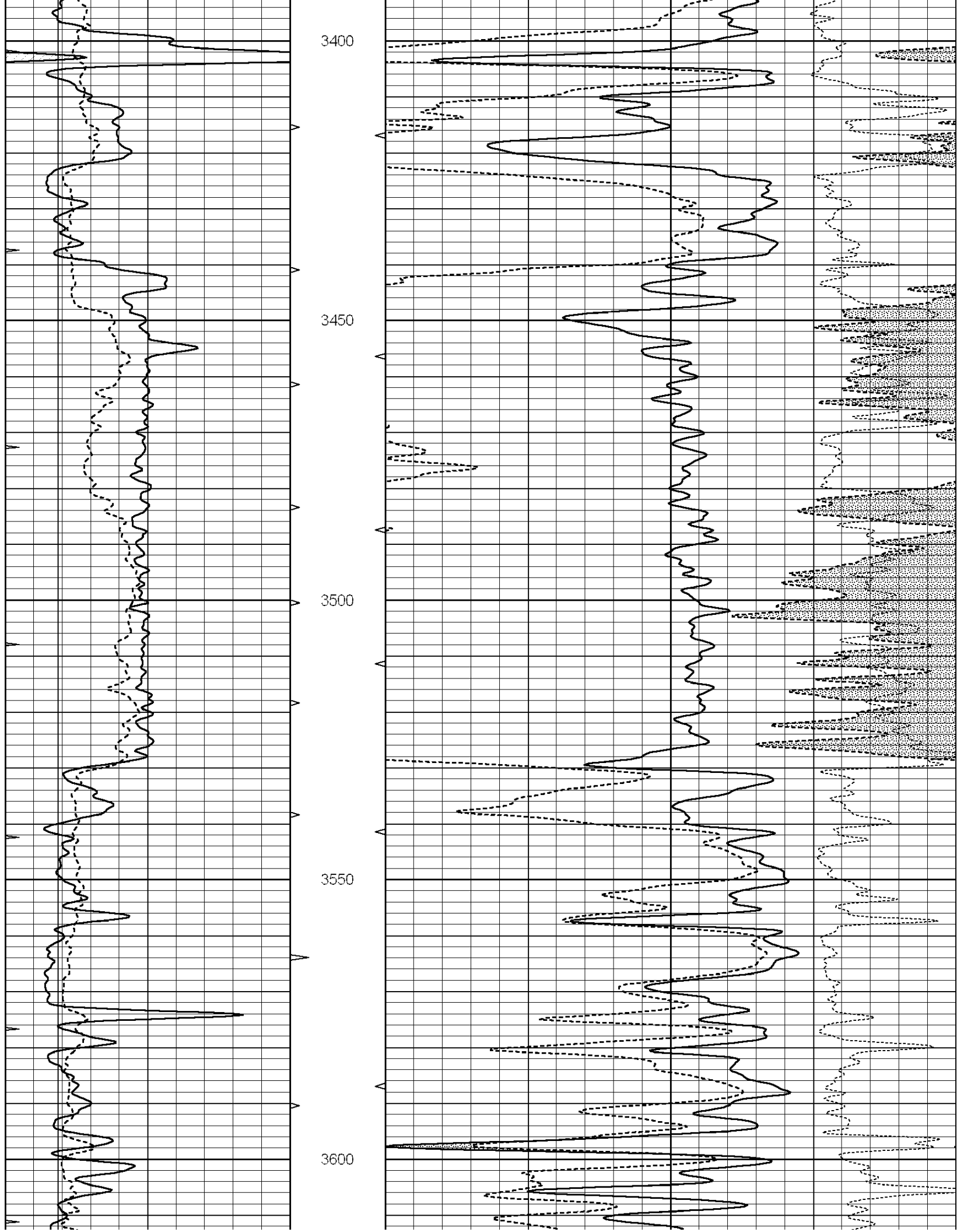
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

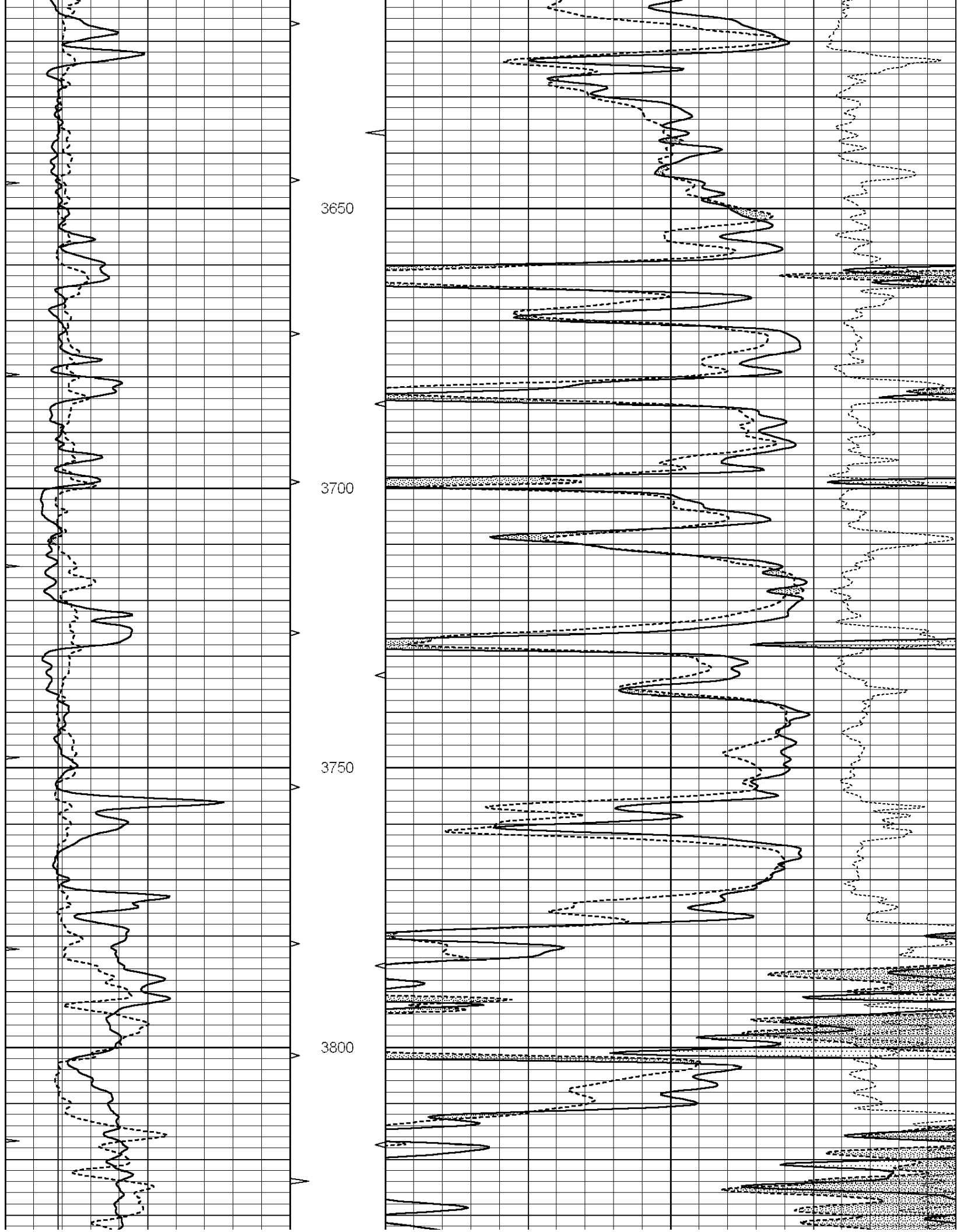
Comments

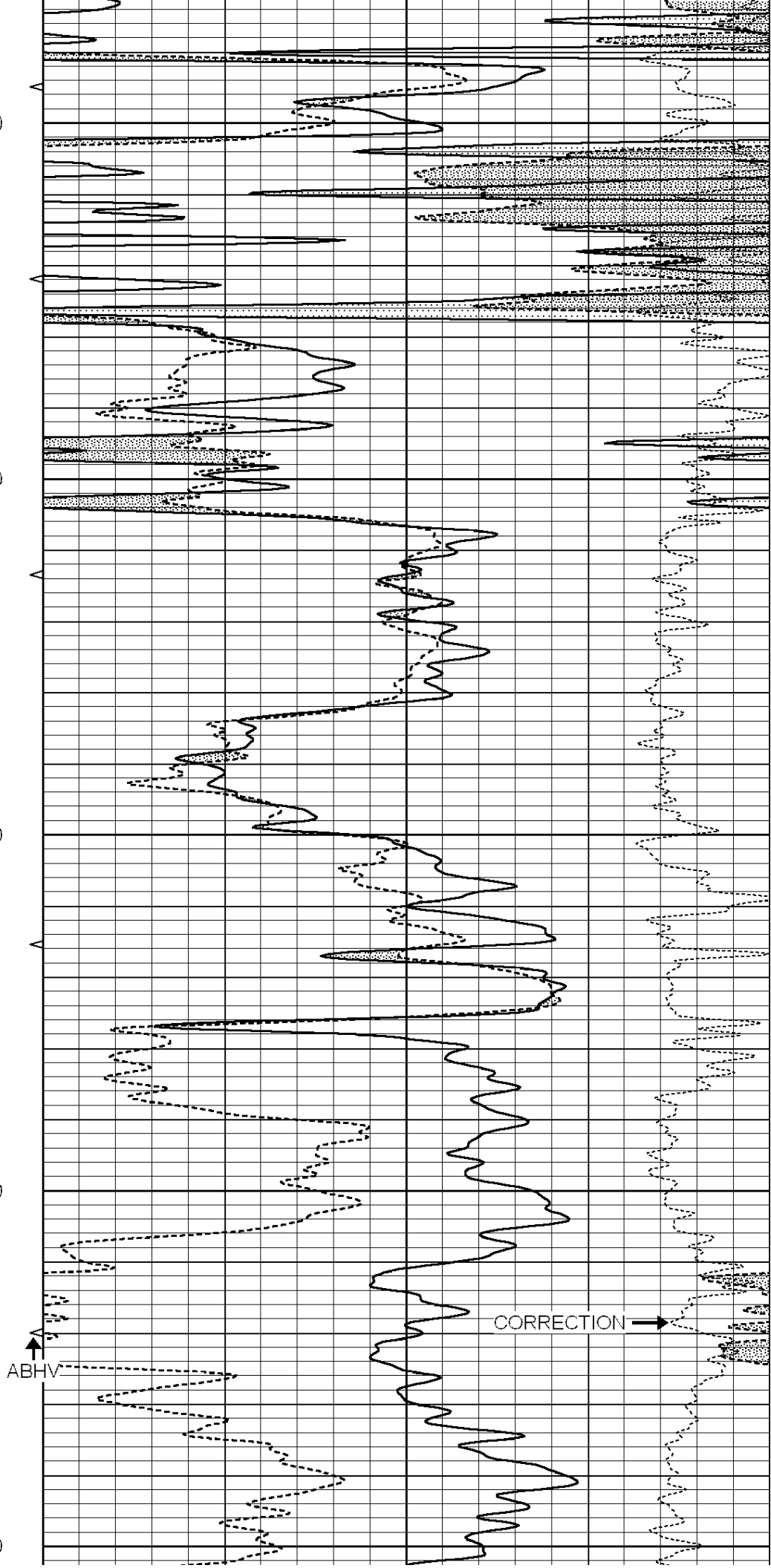
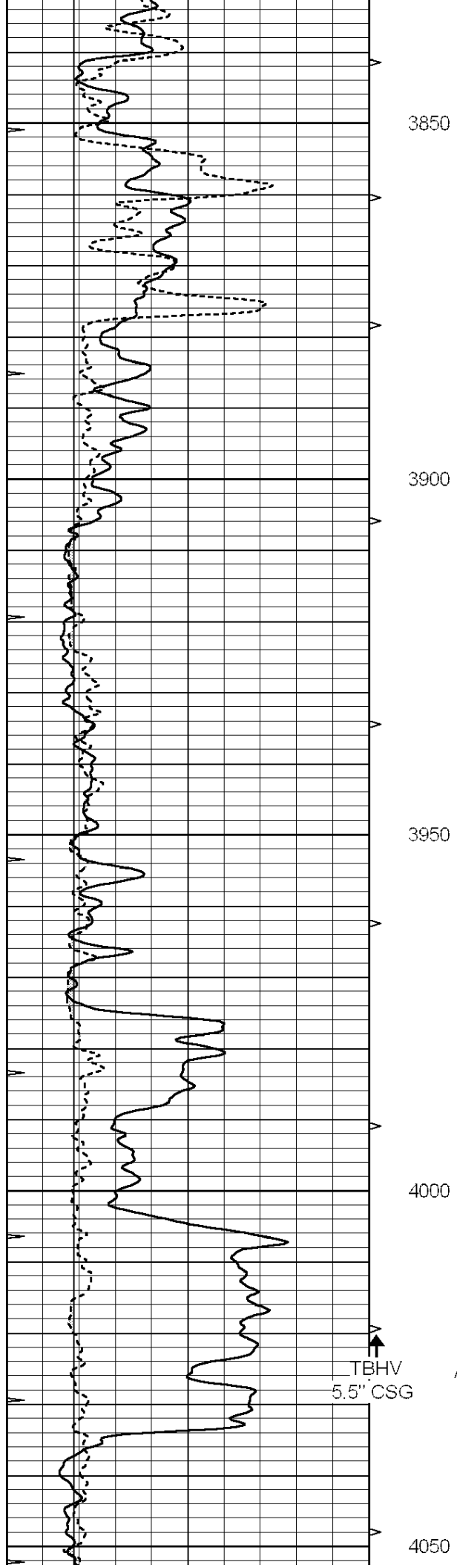
NABORS COMPLETION & PRODUCTION SERVICES
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: HWY 19 & RADIUM RD - 3 SOUTH - 1 EAST - 1 1/2 SOUTH - WEST INTO

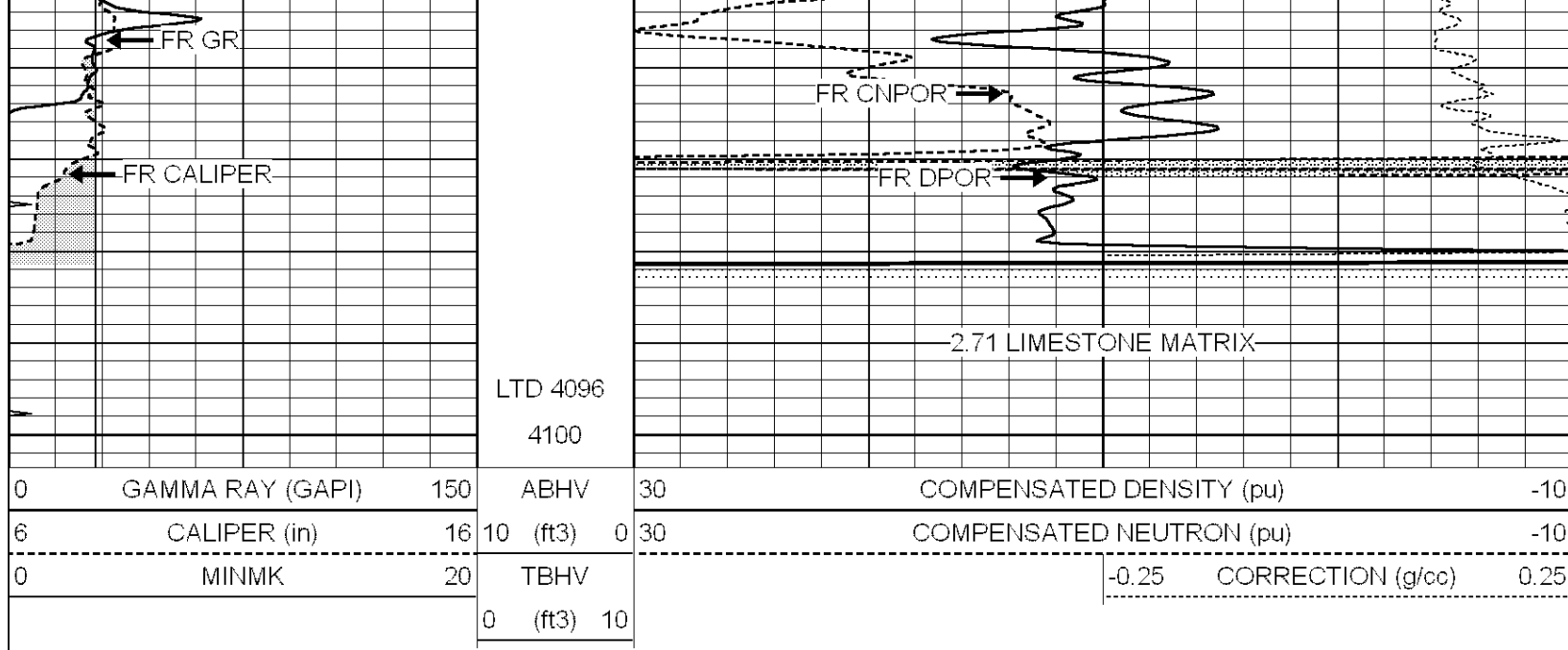
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3) 0	30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3) 10			







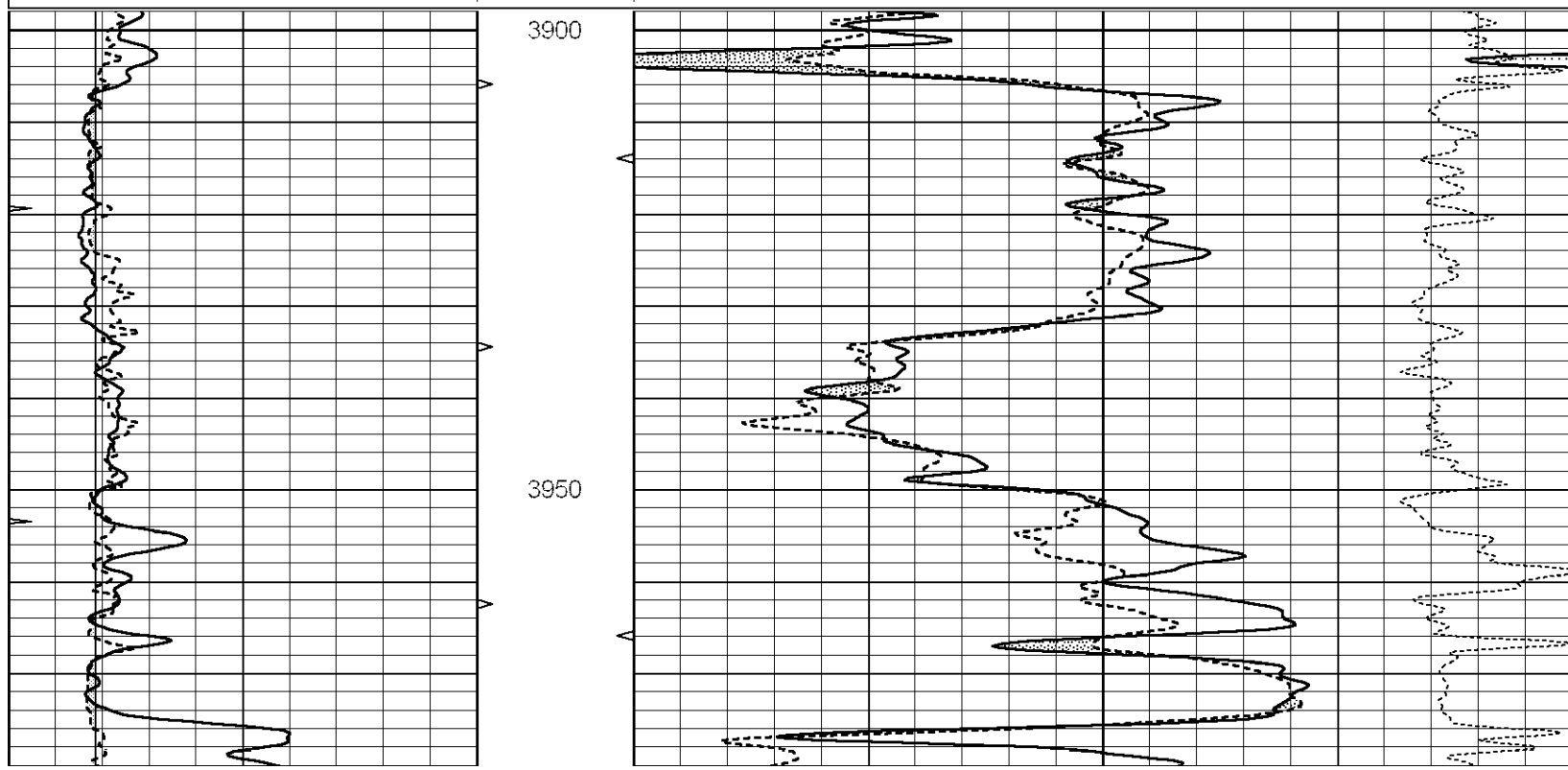


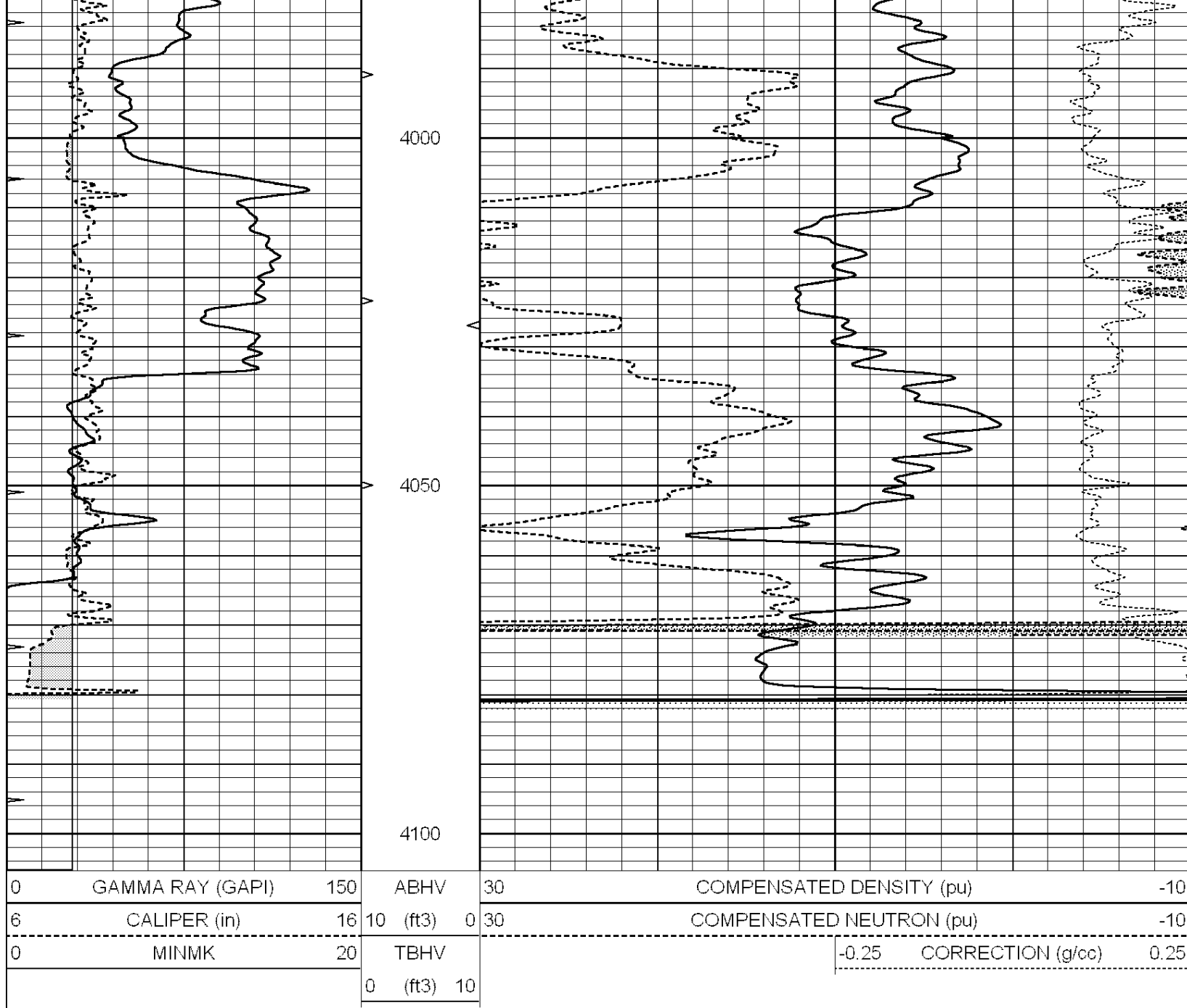


REPEAT SECTION

Database File: 012049ddn.db
 Dataset Pathname: pass3.2
 Presentation Format: _den_neu
 Dataset Creation: Mon Dec 02 09:04:08 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			





Calibration Report

Database File: 012049ddn.db
 Dataset Pathname: pass4.2
 Dataset Creation: Mon Dec 02 09:09:09 2013 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model: DIL3-GEAR
 Performed: Sun Nov 24 23:25:37 2013

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	580.000	5.000
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:	Sun Nov 24 21:22:19 2013

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	1205.77	610.74	cps
Aluminum	2.580	g/cc	271.21	419.72	cps
	Spine Angle = 75.89		Density/Spine Ratio = 0.566		
	Size		Reading		
Small Ring	8.20	in	4.83	V	
Large Ring	14.00	in	7.01	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:	Sat Nov 30 20:21:01 2013	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.3000	GAPI/cps