



**SUPERIOR**  
Hays,  
Kansas

**COMPENSATED  
NEUTRON / DENSITY  
LOG**

Company CASTLE RESOURCES, INC.  
Well LUDWICK #1  
Field CHASE-SILICA  
County RICE  
State KANSAS

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Location: API # : 15-159-22682-0000  
850' FNL & 2110' FWL  
NW - SE - NE - NW  
SEC 35 TWP 19S RGE 10W  
Permanent Datum GROUND LEVEL Elevation 1743  
Log Measured From KELLY BUSHING 10' A.G.L.  
Drilling Measured From KELLY BUSHING  
Elevation  
K.B. 1753  
D.F. 1751  
G.L. 1743

Date	3/5/12
Run Number	ONE
Depth Driller	3400
Depth Logger	3400
Bottom Logged Interval	3376
Top Log Interval	2400
Casing Driller	8 5/8" @ 216
Casing Logger	216
Bit Size	7 7/8
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	9.3/48
pH / Fluid Loss	10.5/9.2
Source of Sample	FLOWLINE
Rim @ Meas. Temp	.75 @ 69F
Rmf @ Meas. Temp	.56 @ 69F
Rmc @ Meas. Temp	.90 @ 69F
Source of Rmf / Rmc	MEASURED
Rim @ BHT	.47 @ 111F
Time Circulation Stopped	2 HOURS
Time Logger on Bottom	
Maximum Recorded Temperature	111F
Equipment Number	680
Location	HAYS, KS.
Recorded By	JEFF GRONEMEG
Witnessed By	JERRY GREEN

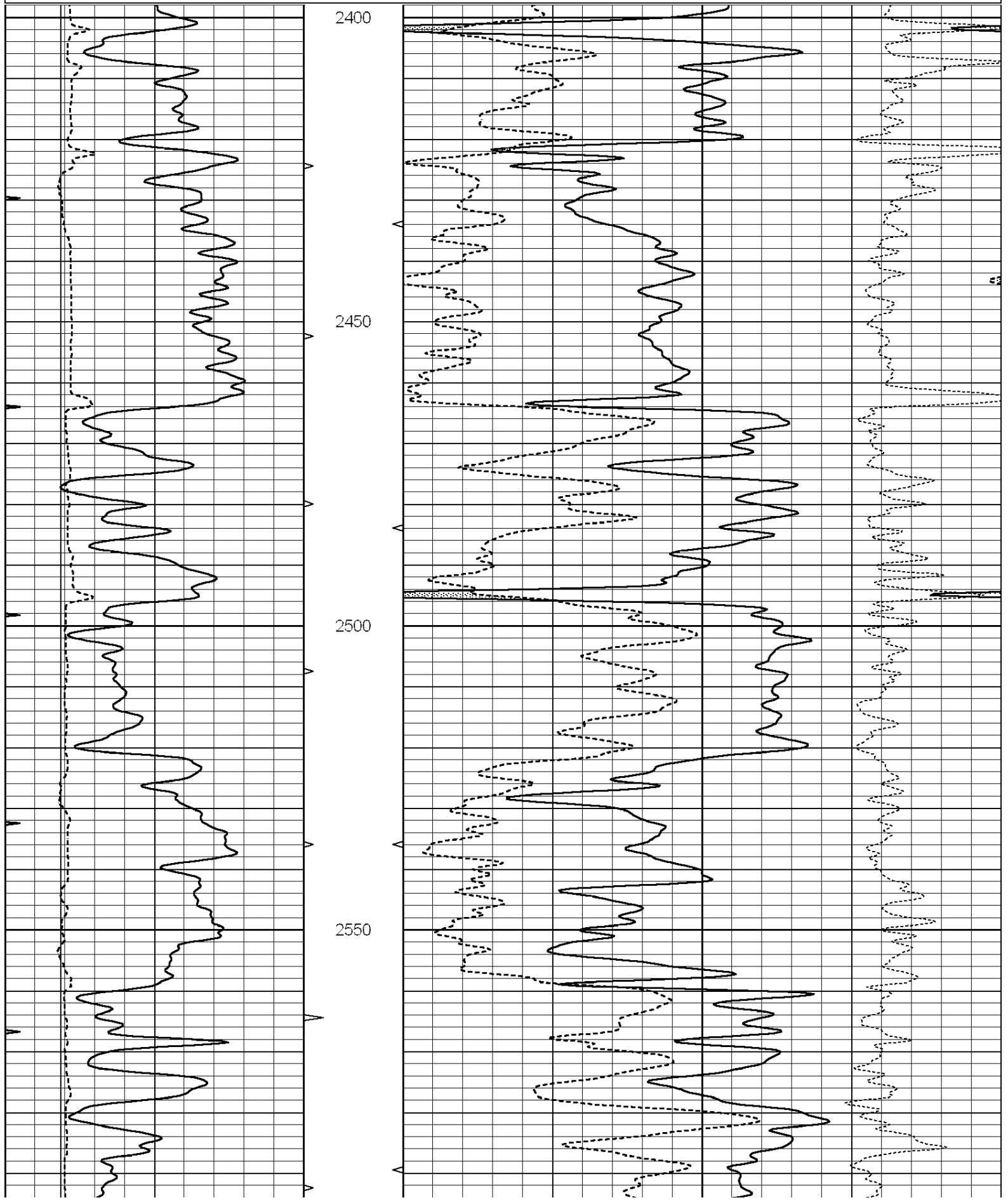
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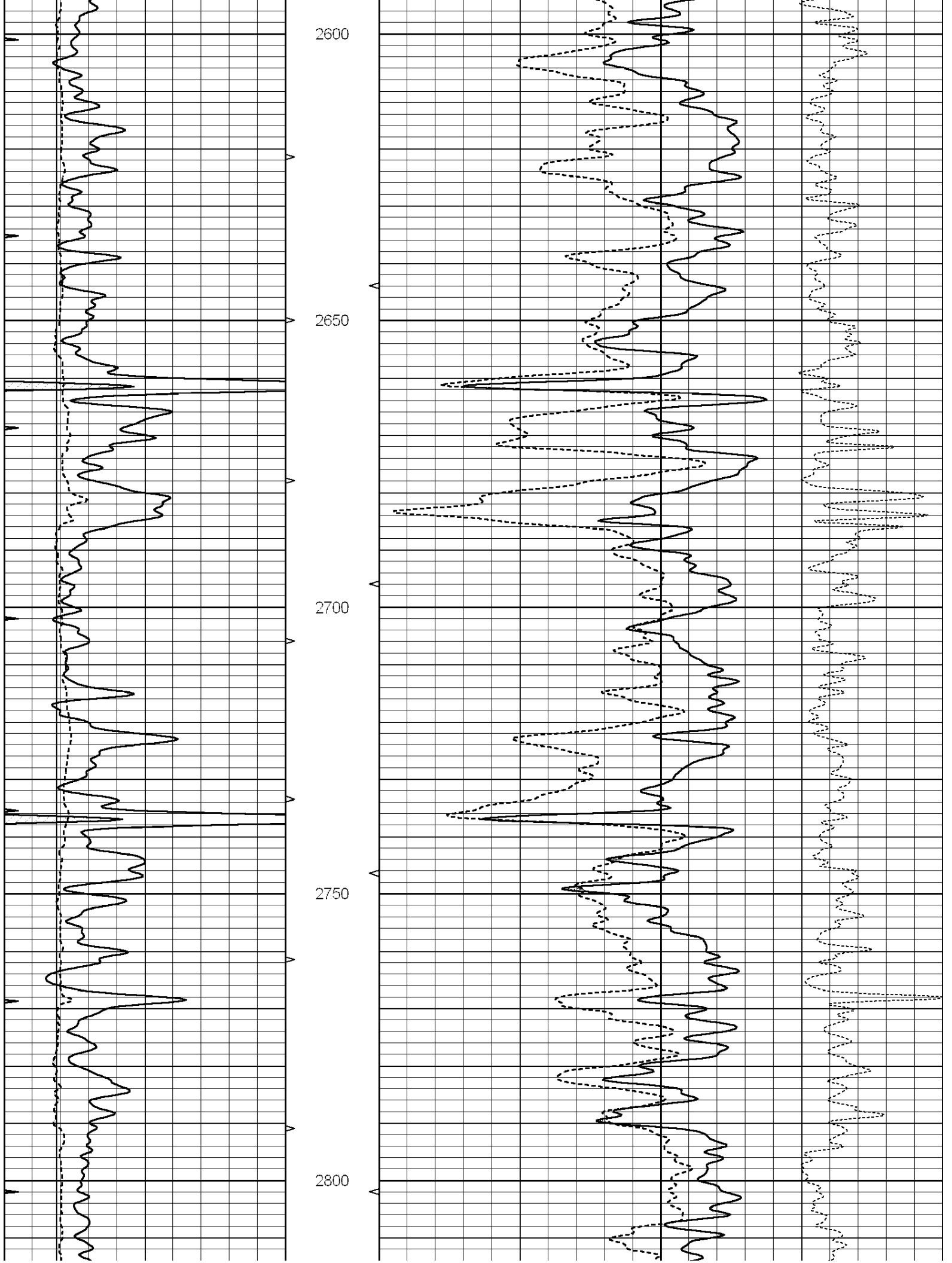
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

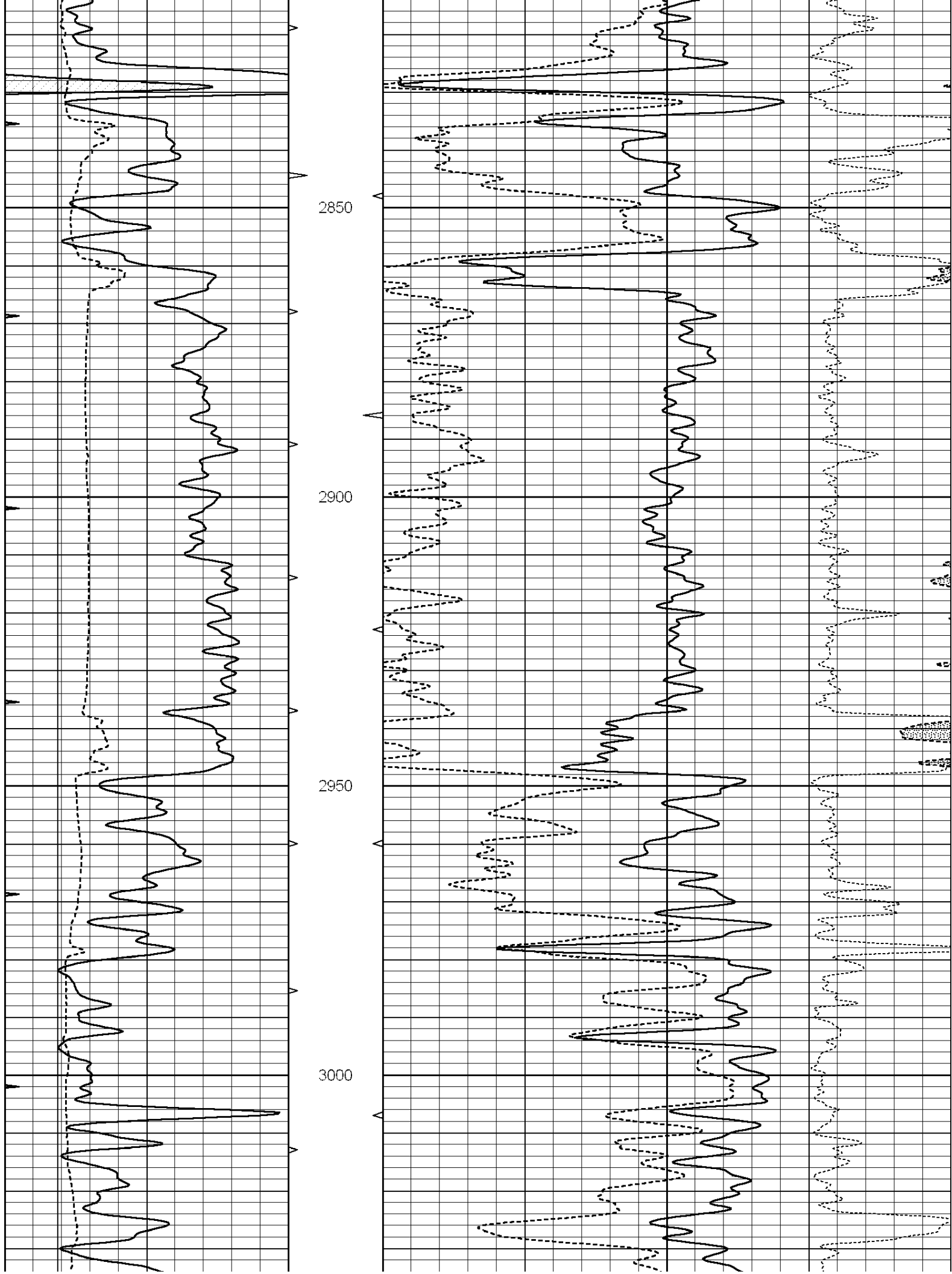
Comments

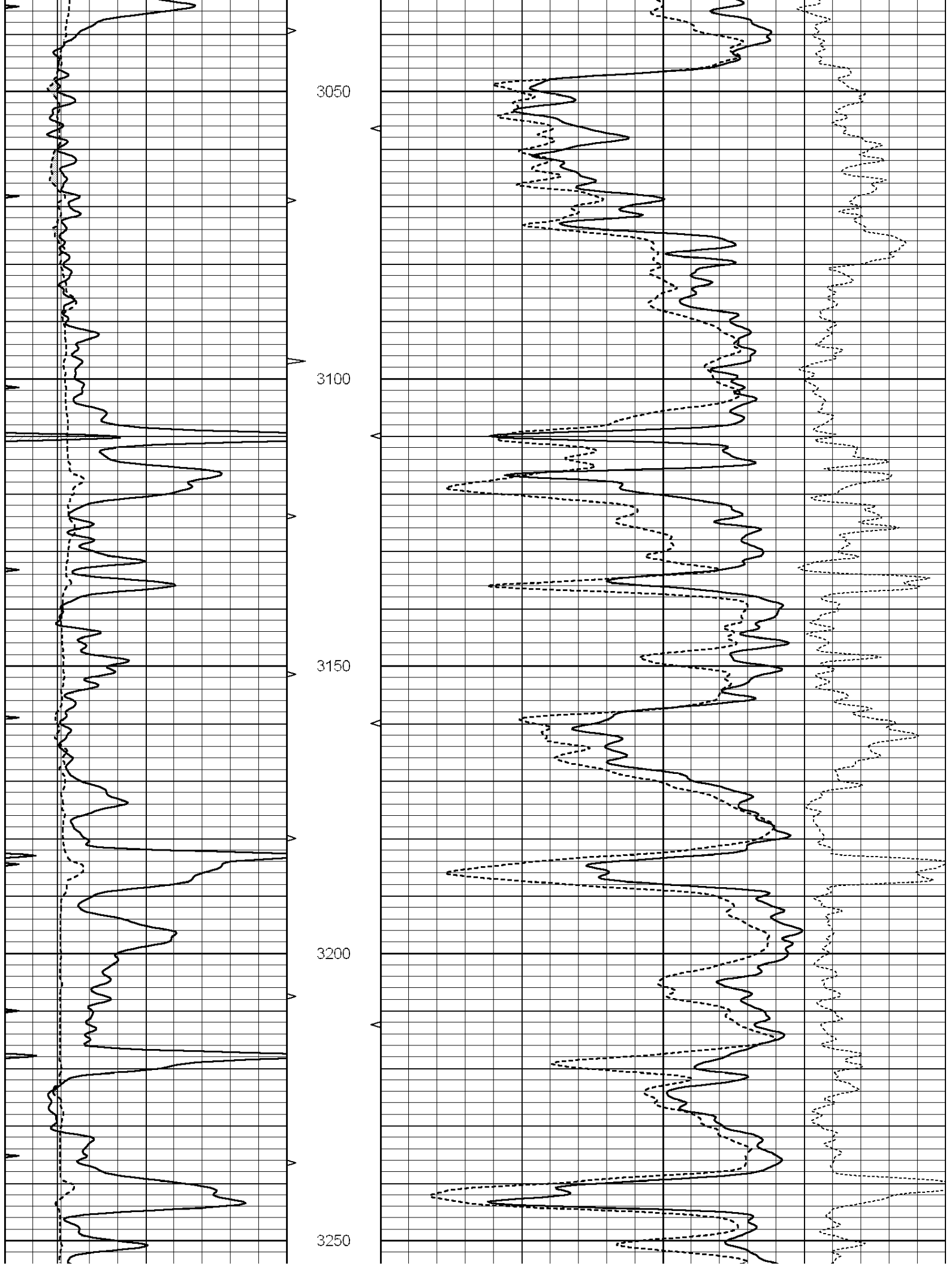
THANK YOU FOR USING SUPERIOR WELL SERVICE (785) 628-6395  
DIRECTIONS  
ELLINWOOD, KS - EAST TO RAYMOND TURNOFF - 1 MILE EAST - 1 MILE NORTH  
1/2 MILE EAST - SOUTH INTO

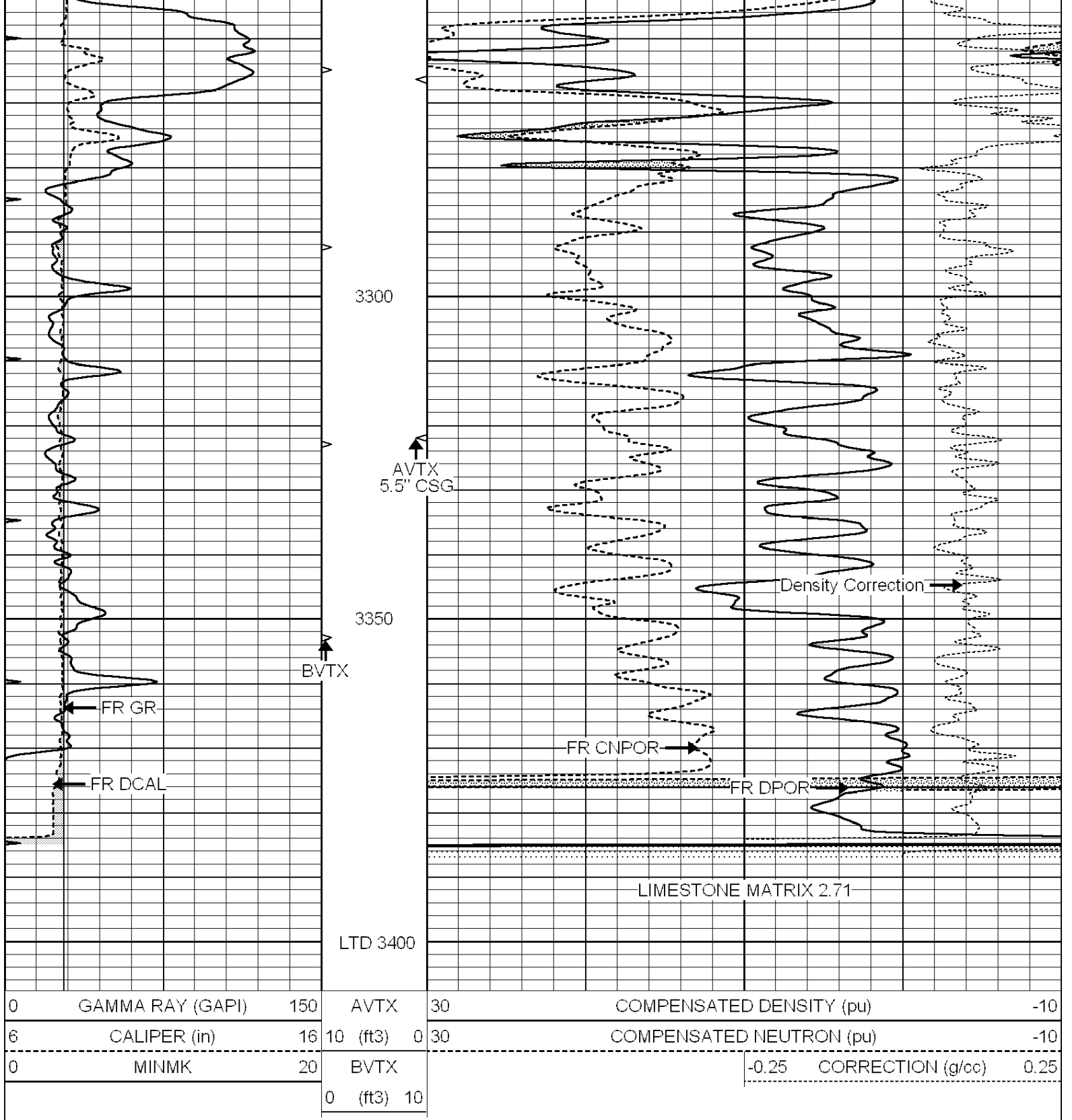
0	GAMMA RAY (GAPI)	150	AVTX	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3)	0 30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	BVTX		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3)	10		









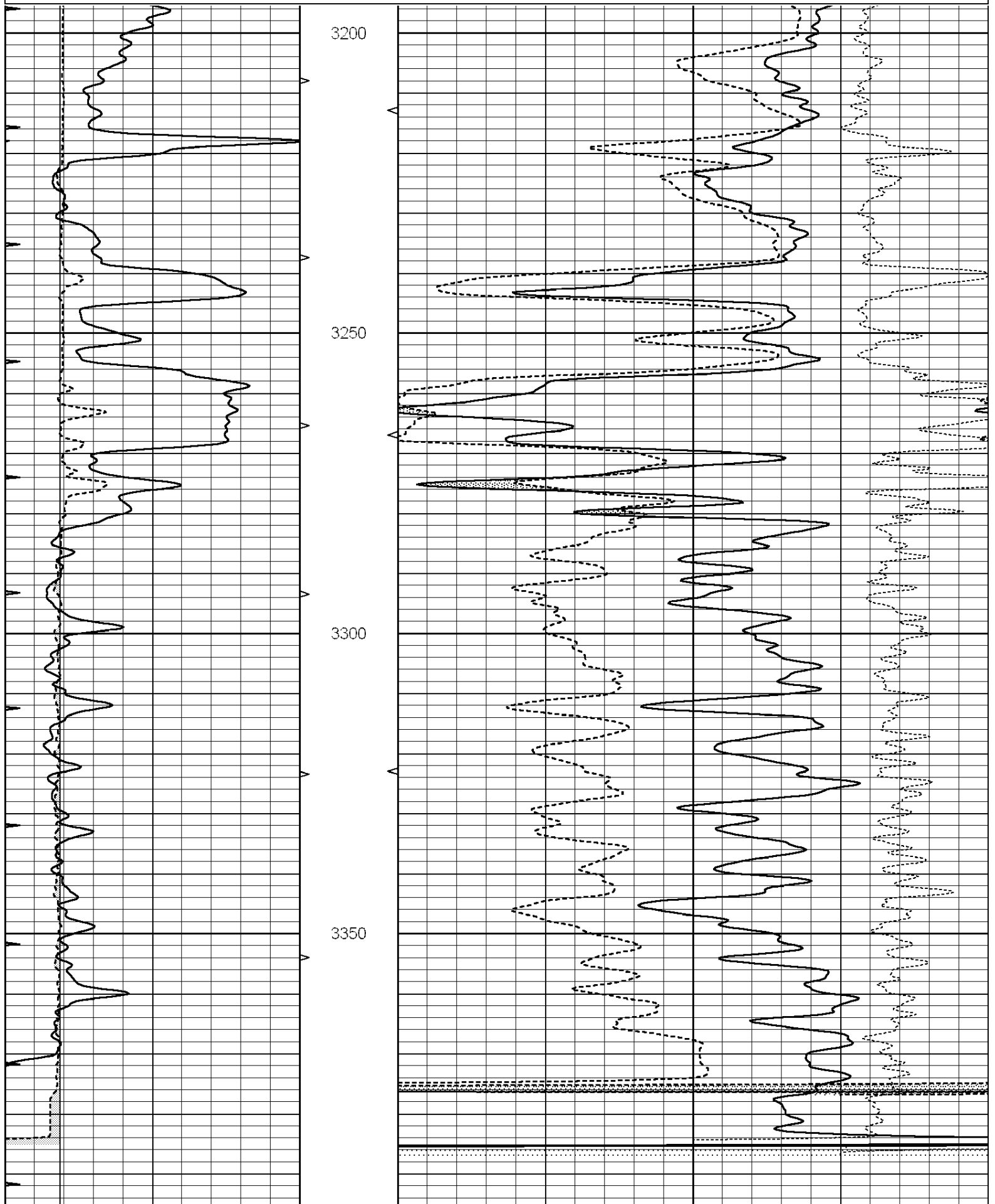


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# REPEAT SECTION

Database File: 008060ddn.db  
 Dataset Pathname: pass2.2  
 Presentation Format: \_den\_neu  
 Dataset Creation: Mon Mar 05 04:21:43 2012 by Calc Open-Cased 090629  
 Charted by: Depth in Feet scaled 1:240

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







Magnesium	1.710	g/cc	1015.91	497.51	cps
Aluminum	2.580	g/cc	227.67	350.20	cps

Spine Angle = 76.79

Density/Spine Ratio = 0.566

	Size		Reading	
Small Ring	8.00	in	2.25	V
Large Ring	14.00	in	4.37	V

Compensated Neutron Calibration Report

Serial Number: 6I  
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: #8  
Tool Model: OPEN  
Performed: Mon Jun 13 16:56:43 2011

Calibrator Value: 150.0 GAPI

Background Reading: 0.0 cps  
Calibrator Reading: 175.0 cps

Sensitivity: 0.8371 GAPI/cps