



**SUPERIOR
Hays,
Kansas**

**COMPENSATED
DENSITY / NEUTRON
LOG**

Company	PAXCO, INC.	Company	PAXCO, INC.
Well	SANDER #12	Well	SANDER #12
Field	TOULON	Field	TOULON
County	ELLIS	County	ELLIS
State	KANSAS	State	KANSAS
Location:	API # : 15-051-25871-0000	Other Services	
	2172' FNL & 447' FEL SW - SW - NW	DIL/MEL	
	SEC 10 TWP 14S RGE 17W	Elevation	
Permanent Datum	GROUND LEVEL	Elevation	2012
Log Measured From	KELLY BUSHING 8' A.G.L.	K.B. 2020	
Drilling Measured From	KELLY BUSHING	D.F. 2018	
		G.L. 2012	
Date	7/25/09		
Run Number	ONE		
Depth Driller	3982'		
Depth Logger	3981'		
Bottom Logged Interval	3957'		
Top Log Interval	2900'		
Casing Driller	8 5/8" @ 653'		
Casing Logger	652'		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	8.7 / 63	CHLORIDES 5,100	
pH / Fluid Loss	10.0 / 8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.65 @ 90F		
Rmf @ Meas. Temp	0.49 @ 90F		
Rmc @ Meas. Temp	0.78 @ 90F		
Source of Rmf / Rmc	CAL/CAL		
Rm @ BHT	0.50 @ 116F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	116F		
Equipment Number	680		
Location	HAYS, KS		
Recorded By	JEFF GRONEWEG		
Witnessed By	HERB DEINES	VINCE WERTH	

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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

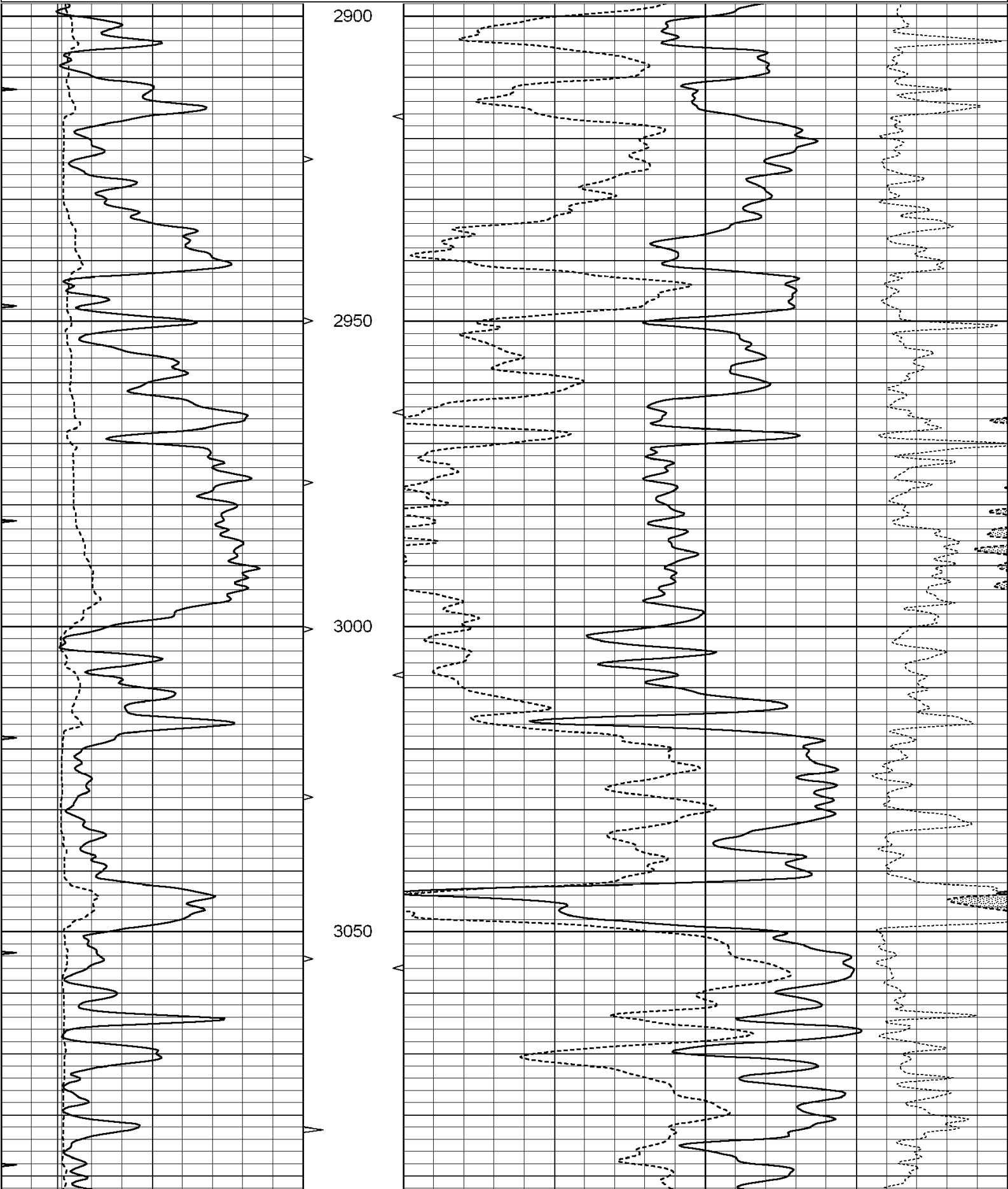
THANK YOU FOR USING SUPERIOR WELL SERVICES
HAYS, KS. 785-628-6395

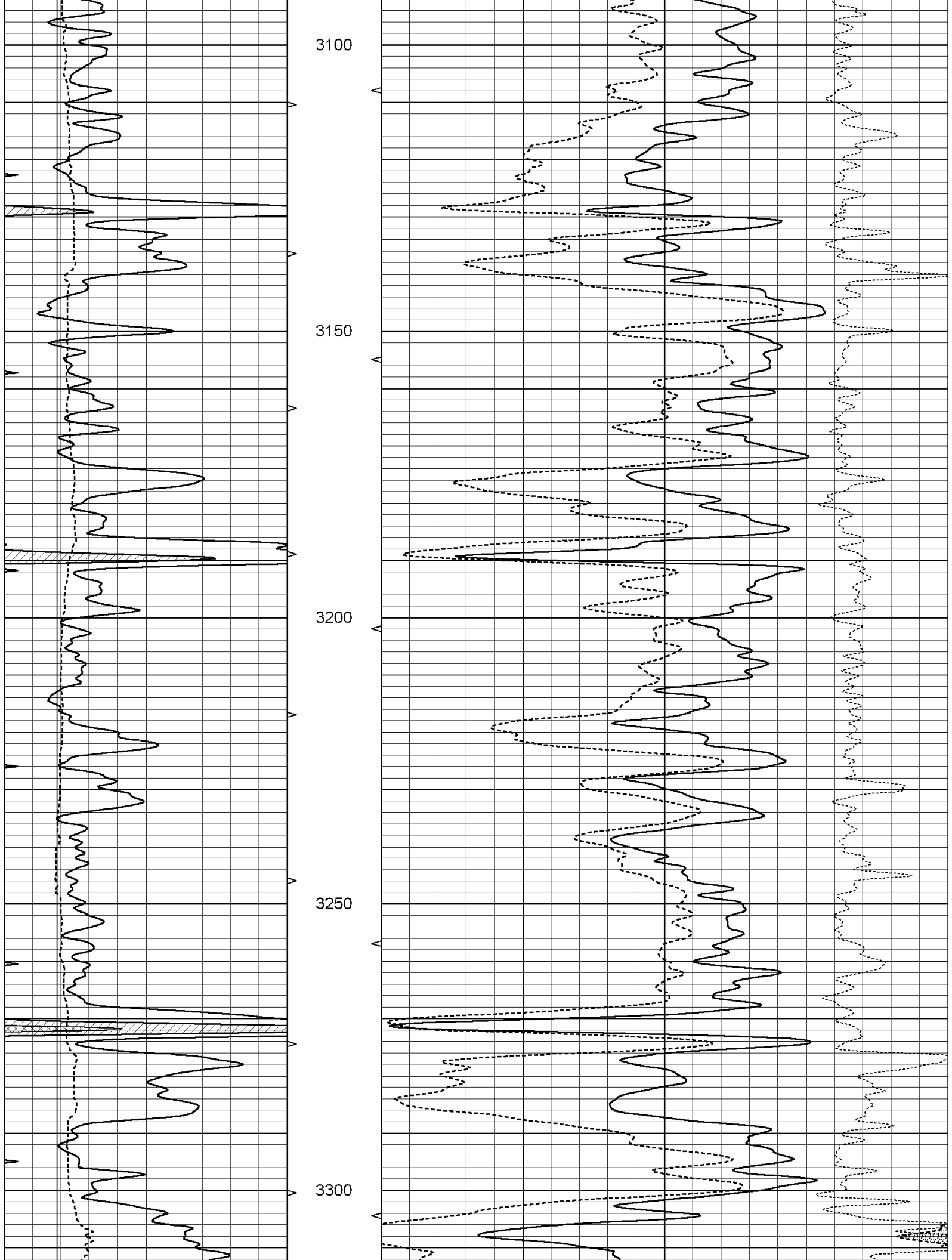
DIRECTIONS: TOULON ELEVATOR - 2 MILES EAST - 1/2 MILE NORTH
EAST INTO

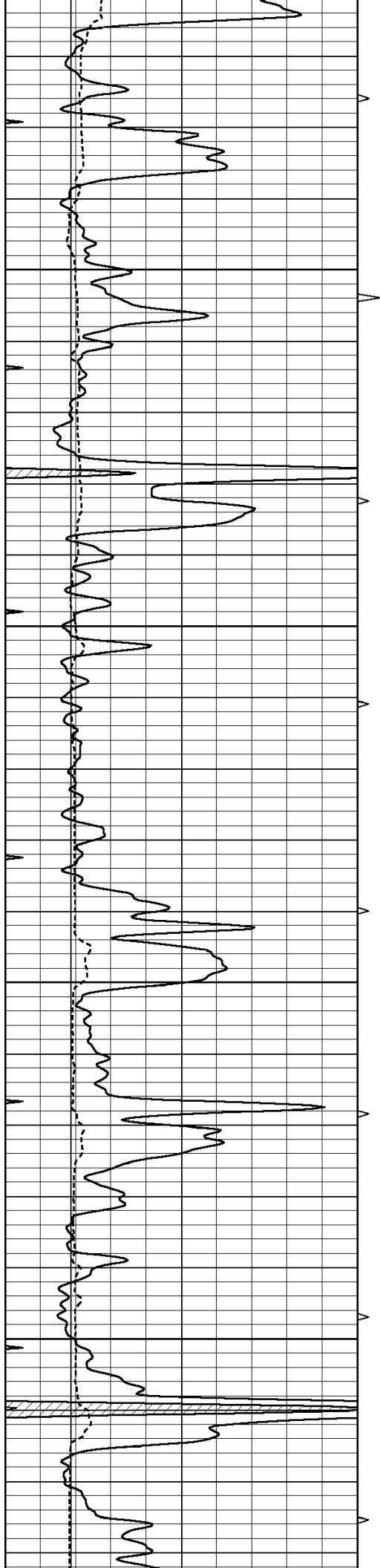
Charted by:

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			





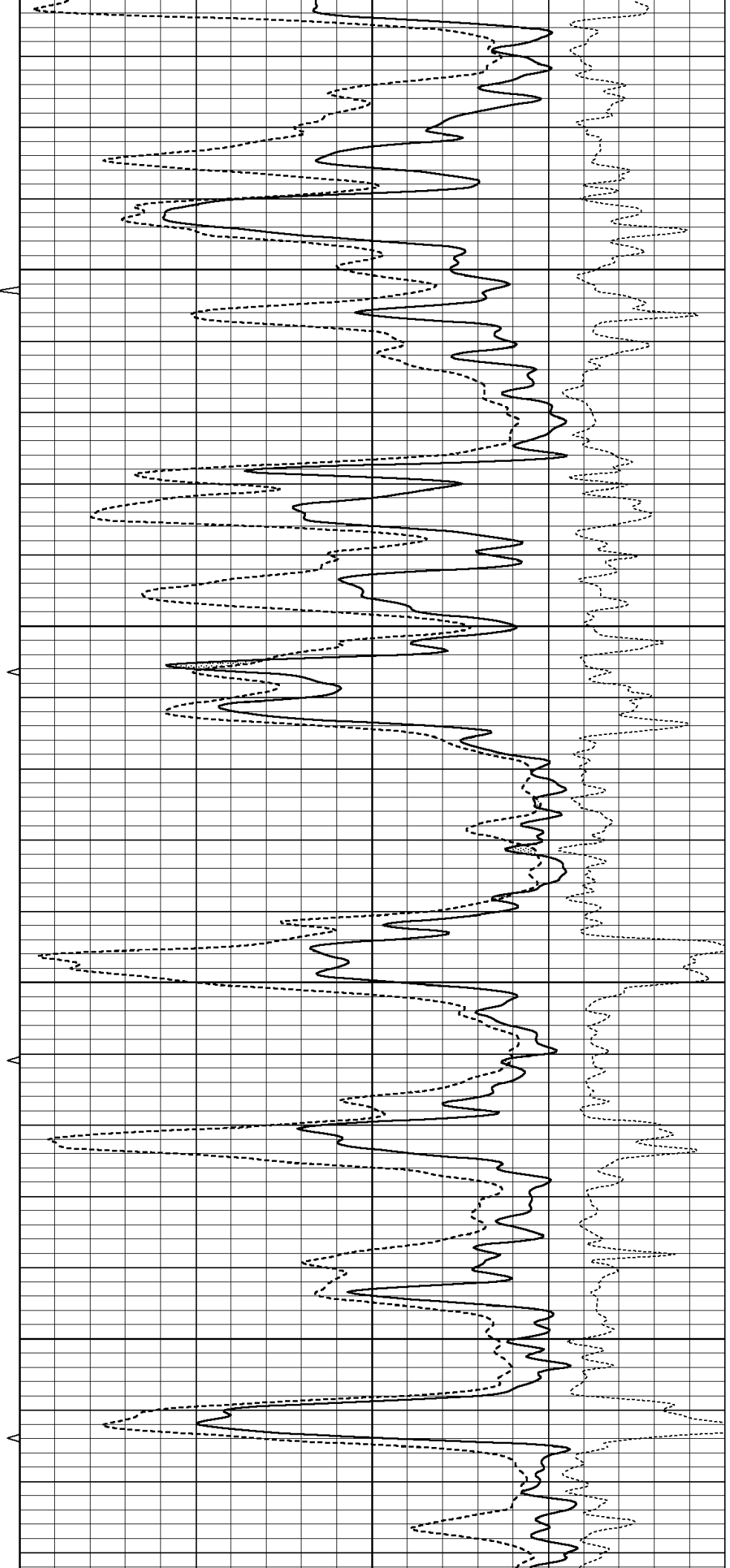


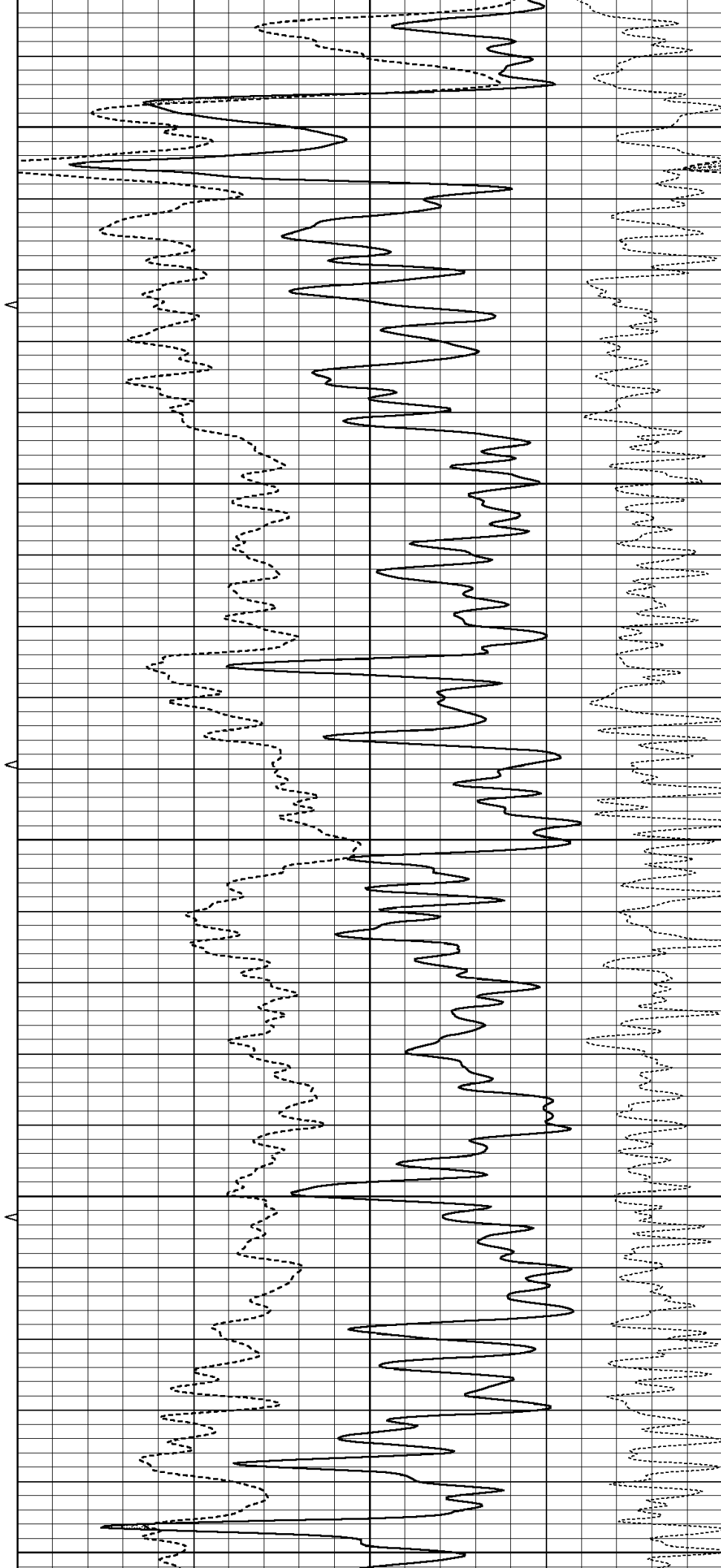
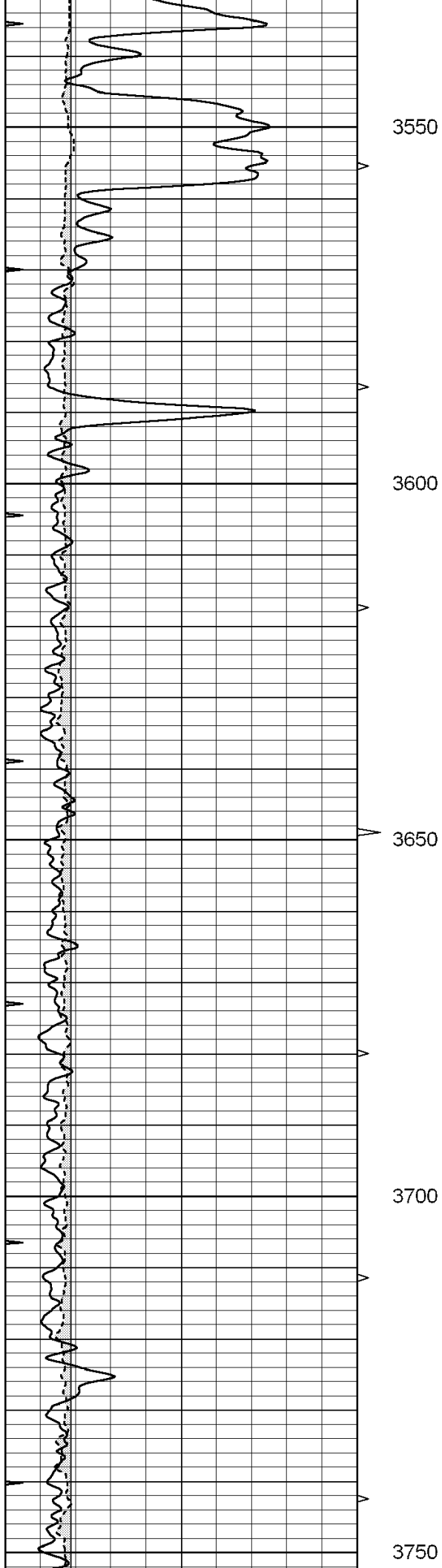
3350

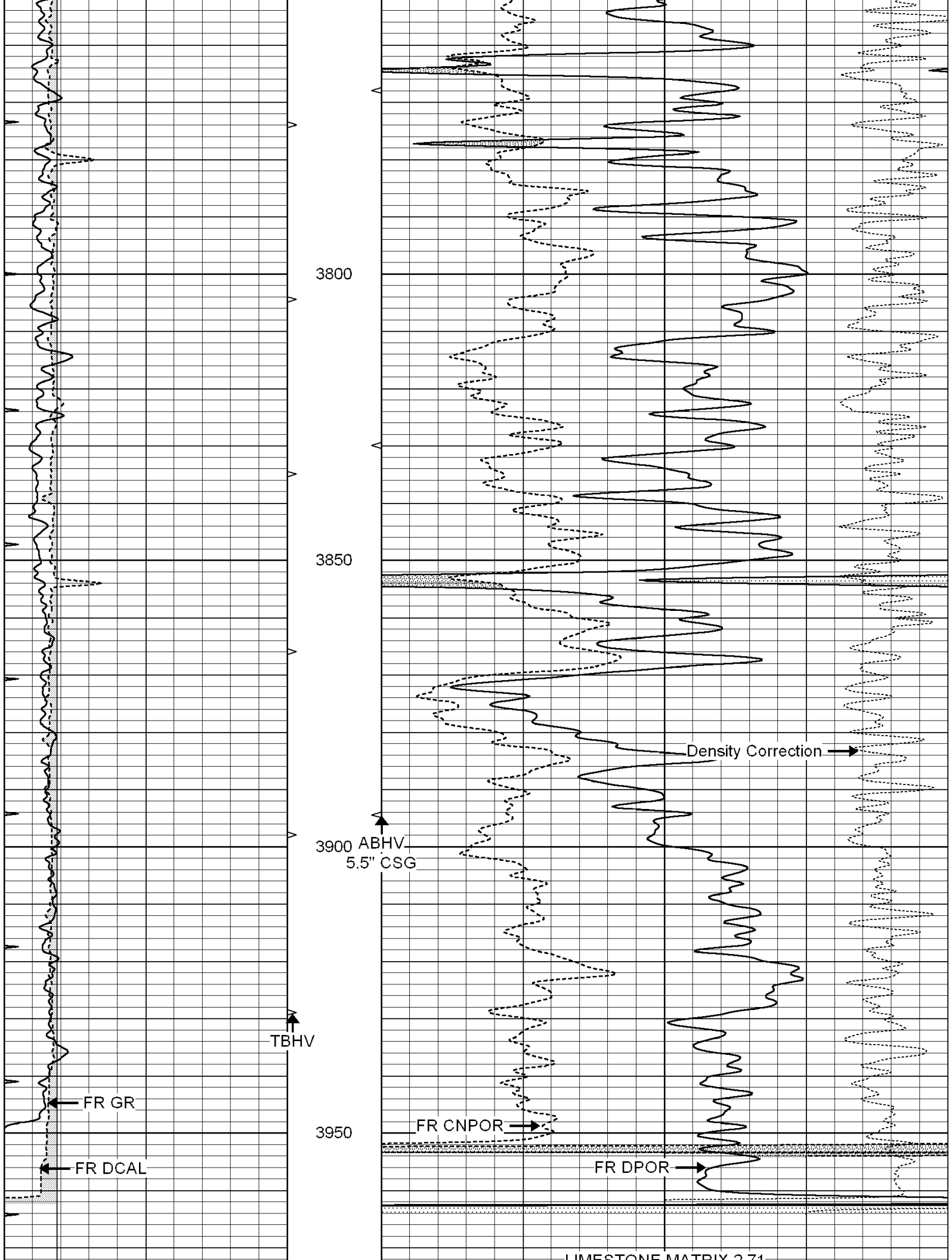
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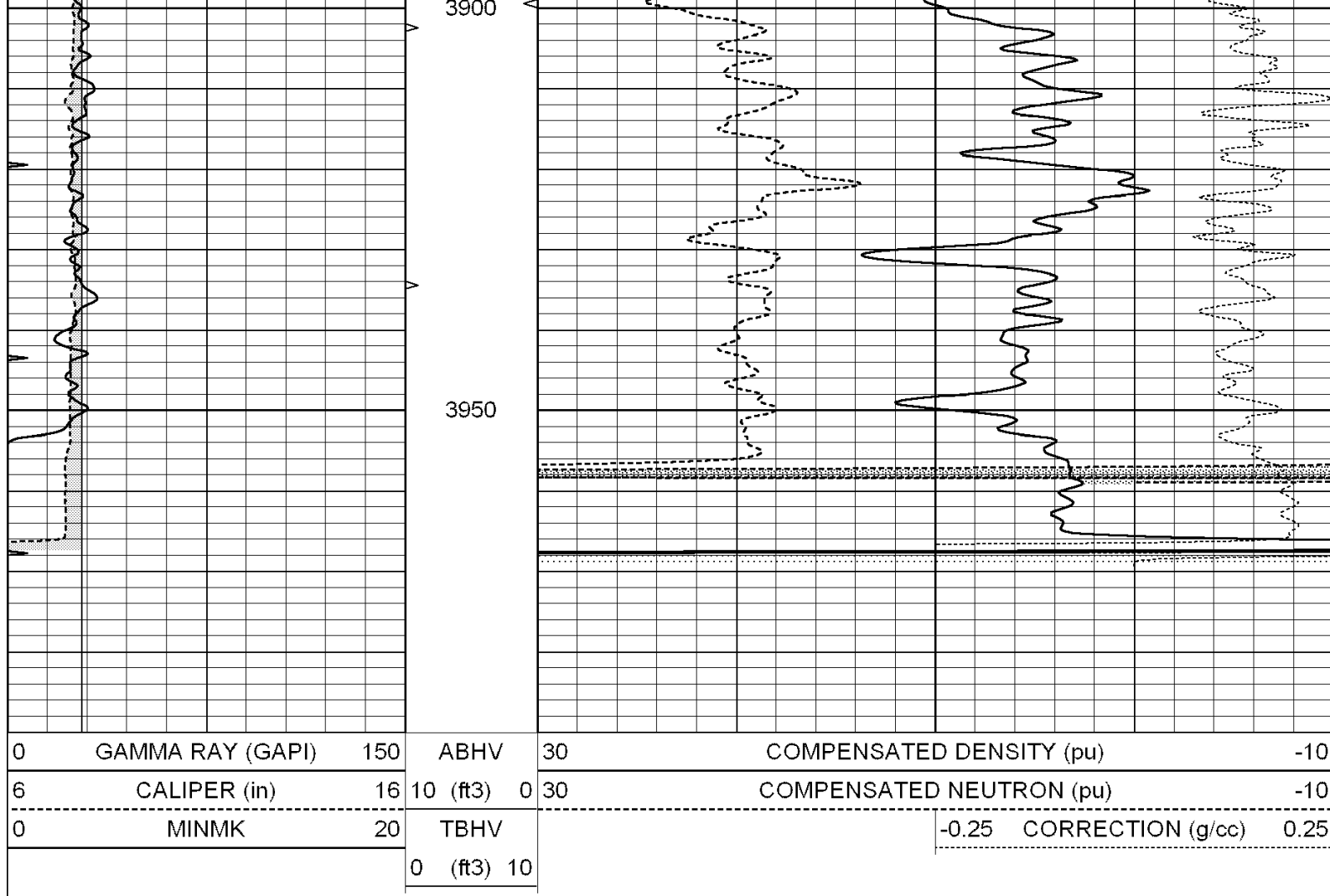
3450

3500









Calibration Report

Database File: 004082ddn.db
Dataset Pathname: pass3.2
Dataset Creation: Sat Jul 25 16:37:53 2009 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model: PROBE8-DILG
Surface Cal Performed: Fri Aug 01 06:33:19 2008
Downhole Cal Performed: Mon Jul 28 11:08:27 2008
After Survey Verification Performed: Mon Jul 28 11:08:27 2008

Surface Calibration

Loop:	Readings			References			Results	
	Air	Loop		Air	Loop		m	b
Deep	0.015	0.648	V	0.000	400.000	mmho/m	632.616	-9.730
Medium	0.029	0.796	V	0.000	464.000	mmho/m	605.049	-17.680
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.017	0.657	V	0.000	400.000	mmho/m	625.153	-10.619
Medium	0.016	0.757	V	0.000	464.000	mmho/m	625.992	-9.739

Downhole Calibration

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	2.011	405.777	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	7.590	503.393	mmho/m	1.000	0.000

Medium	0.000	0.000	mmho/m	7.500	500.000	mmho/m	1.000	0.000
LL3		7.500	V		1500.000	Ohm-m		
		0.000	V		20.000	Ohm-m		
		-6.500	V		3800.000	mmho-m		

After Survey Verification								
	Readings			Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000
Medium	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000
LL3		1.000	Ohm-m		1.000	Ohm-m		
		0.000	Ohm-m		0.000	Ohm-m		
		1.000	mmho-m		1.000	mmho-m		

Compensated Density Calibration Report								
Serial-Model:				GEAR3-GEARHART				
Source / Verifier:				143 / 143				
Master Calibration Performed:				Fri Mar 06 10:44:04 2009				

Master Calibration								
	Density			Far Detector		Near Detector		
Magnesium	1.710	g/cc		1127.25		444.45	cps	
Aluminum	2.600	g/cc		260.89		307.54	cps	
Spine Angle = 75.88				Density/Spine Ratio = 0.590				
	Size			Reading				
Small Ring	8.00	in		4.19	V			
Large Ring	14.00	in		6.17	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:			GR6					
Tool Model:			OPEN					
Performed:			Thu Jul 09 09:06:42 2009					
Calibrator Value:			150.0	GAPI				
Background Reading:			0.0	cps				
Calibrator Reading:			276.0	cps				
Sensitivity:			0.6835	GAPI/cps				