



**SUPERIOR
Hays,
Kansas**

**COMPENSATED
DENSITY / NEUTRON
LOG**

Company	S-B OIL COMPANY	County	GRAHAM	State	KANSAS
Well	STEHNO FARMS #1	Field			
Location:	API # : 15-065-23828		Other Services		
2620' FSL & 1520' FEL		DIL/MEL			
SEC 34 TWP 7S RGE 21W		Elevation			
Permanent Datum	GROUND LEVEL	Elevation	2045	K.B. 2053	
Log Measured From	KELLY BUSHING 8' A.G.L.	D.F. 2051			
Drilling Measured From	KELLY BUSHING	G.L. 2045			
Date	4-22-12				
Run Number	ONE				
Depth Driller	3640				
Depth Logger	3641				
Bottom Logged Interval	3617				
Top Log Interval	2950				
Casing Driller	226'				
Casing Logger	225'				
Bit Size	7.875				
Type Fluid in Hole	CHEMICAL MUD				
Density / Viscosity	9.1 / 51	CHLORIDES	1.300		
pH / Fluid Loss	10.5 / 7.2				
Source of Sample	FLOWLINE				
Rim @ Meas. Temp	1.50 @ 81F				
Rinf @ Meas. Temp	1.13 @ 81F				
Rmc @ Meas. Temp	1.80 @ 81F				
Source of Rinf / Rmc	MEASURED				
Rim @ BHT	1.08 @ 113F				
Time Circulation Stopped	2 HOURS				
Time Logger on Bottom					
Maximum Recorded Temperature	113F				
Equipment Number	860				
Location	HAYS, KS.				
Recorded By	JEFF GRONEWEG				
Witnessed By	MARC DOWNING				

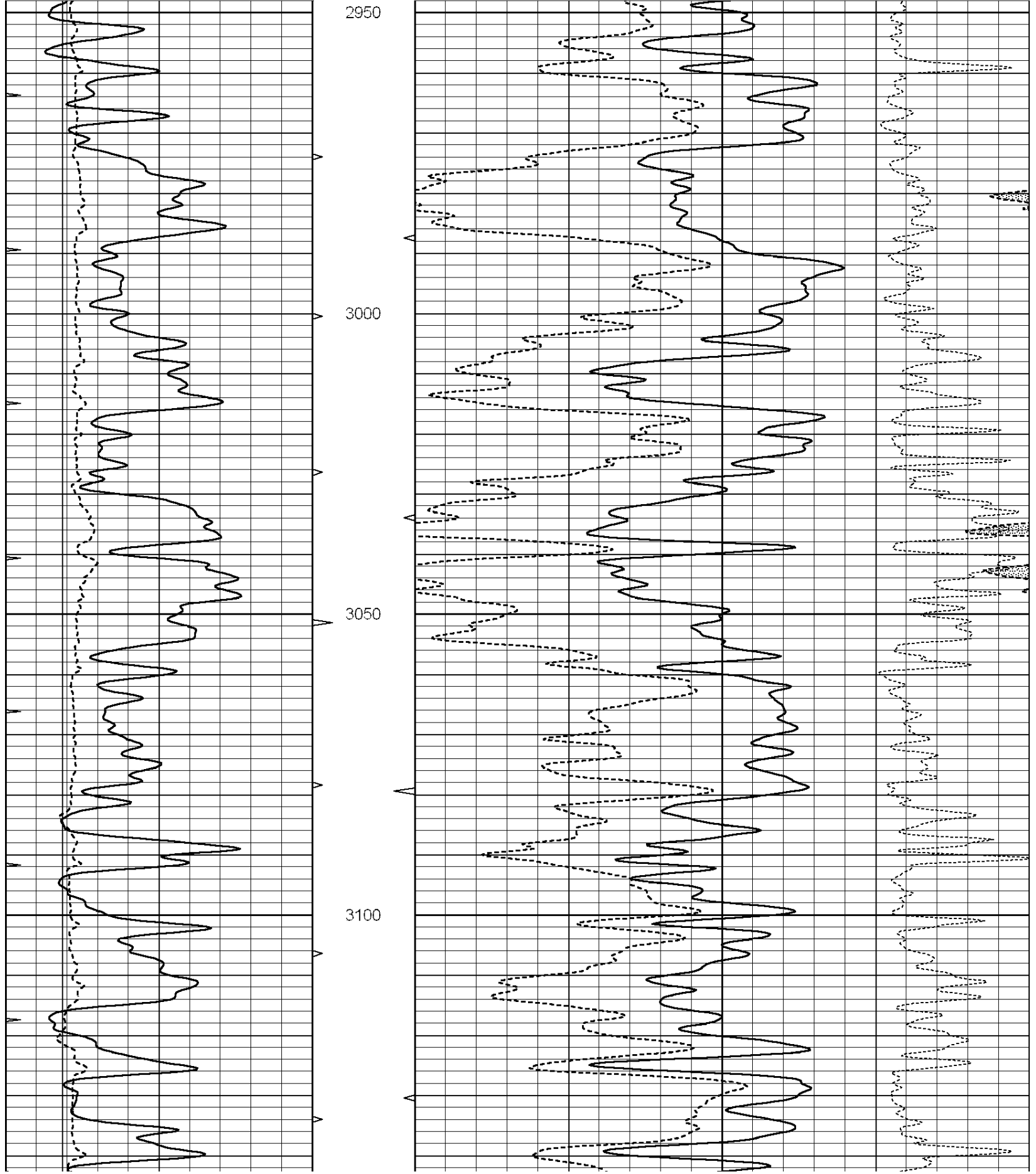
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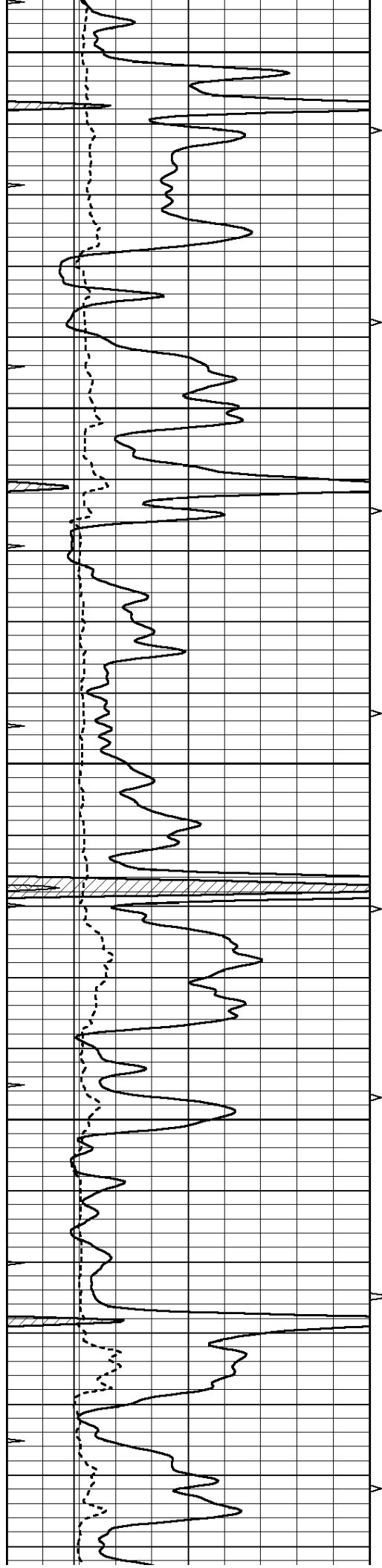
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

SUPERIOR WELL SERVICES
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: NICODEMUS, KS - 1 MILE NORTH - 1 1/2 MILES WEST
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			





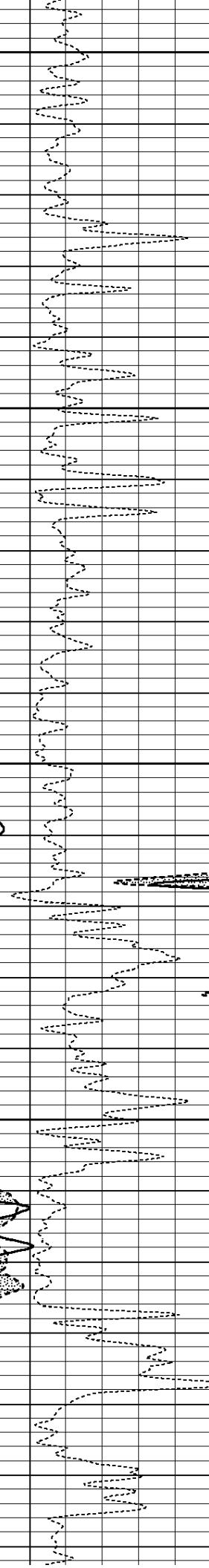
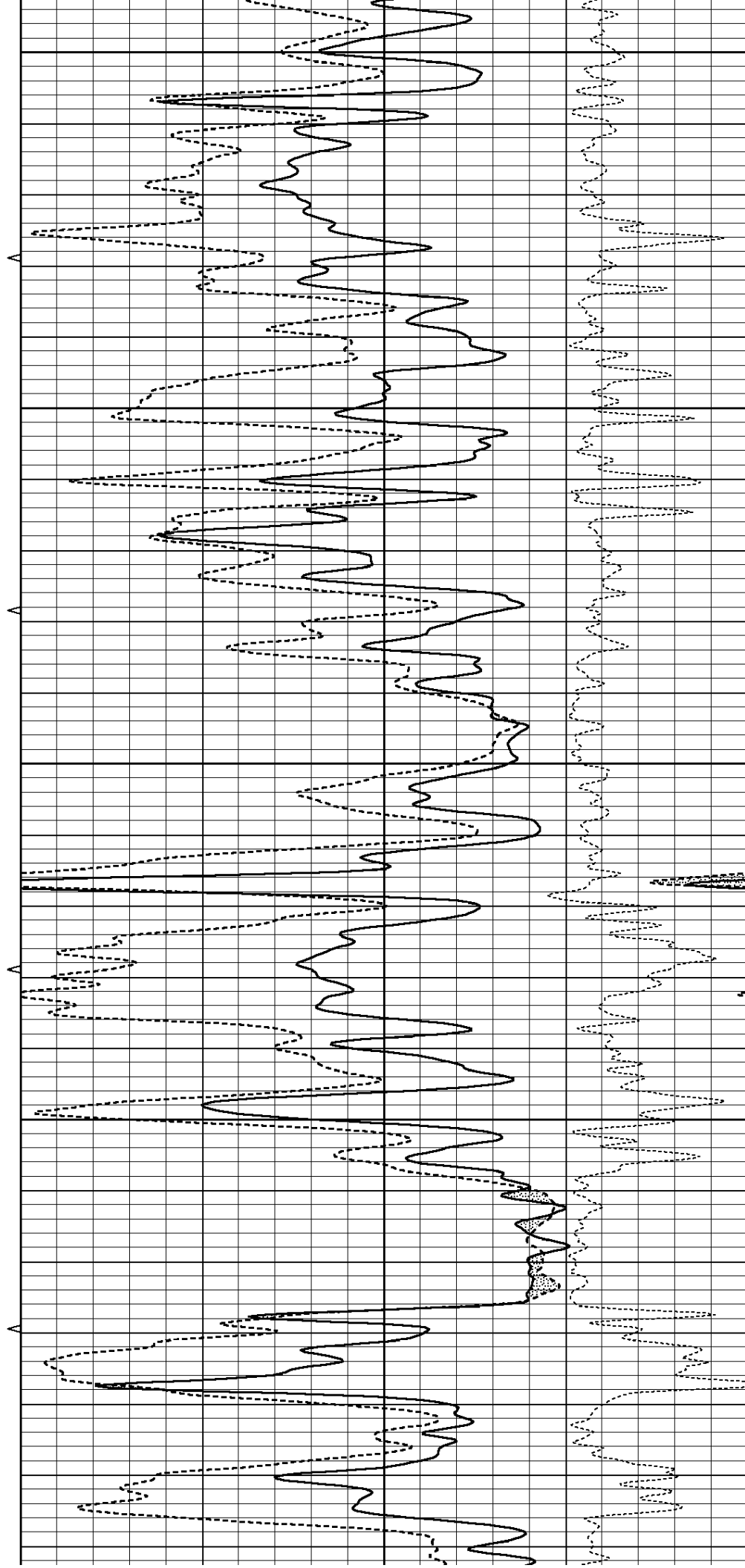
3150

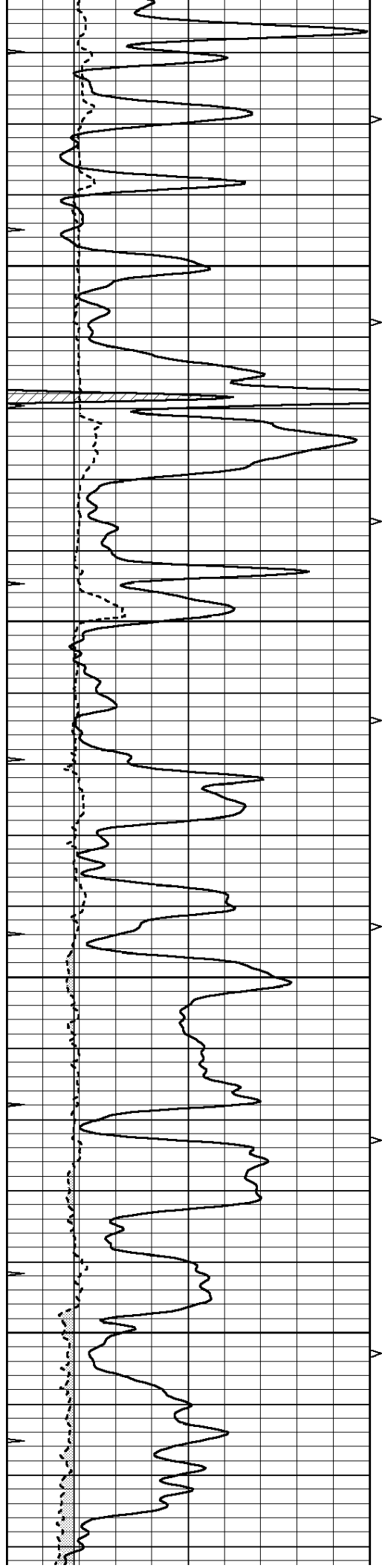
3200

3250

3300

3350



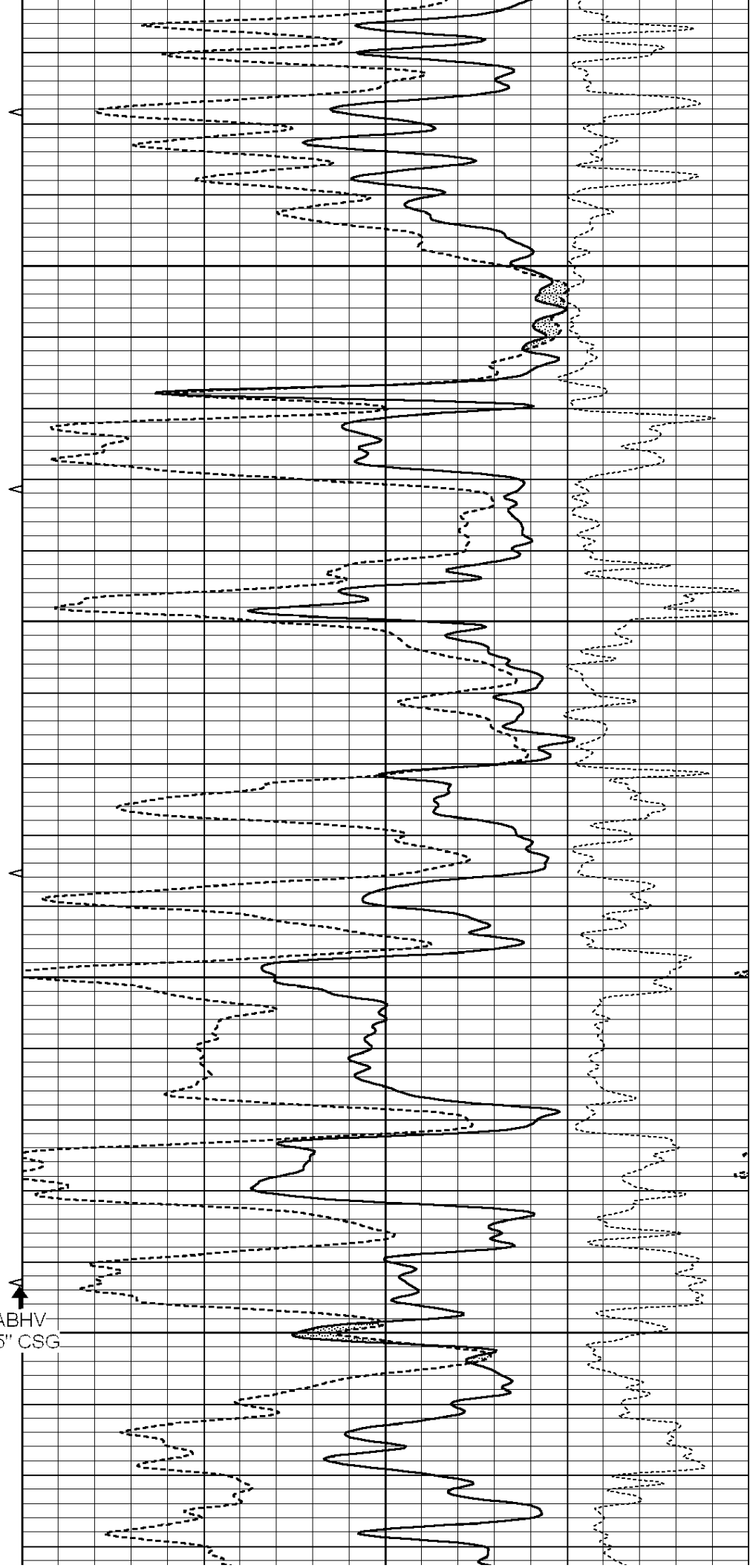


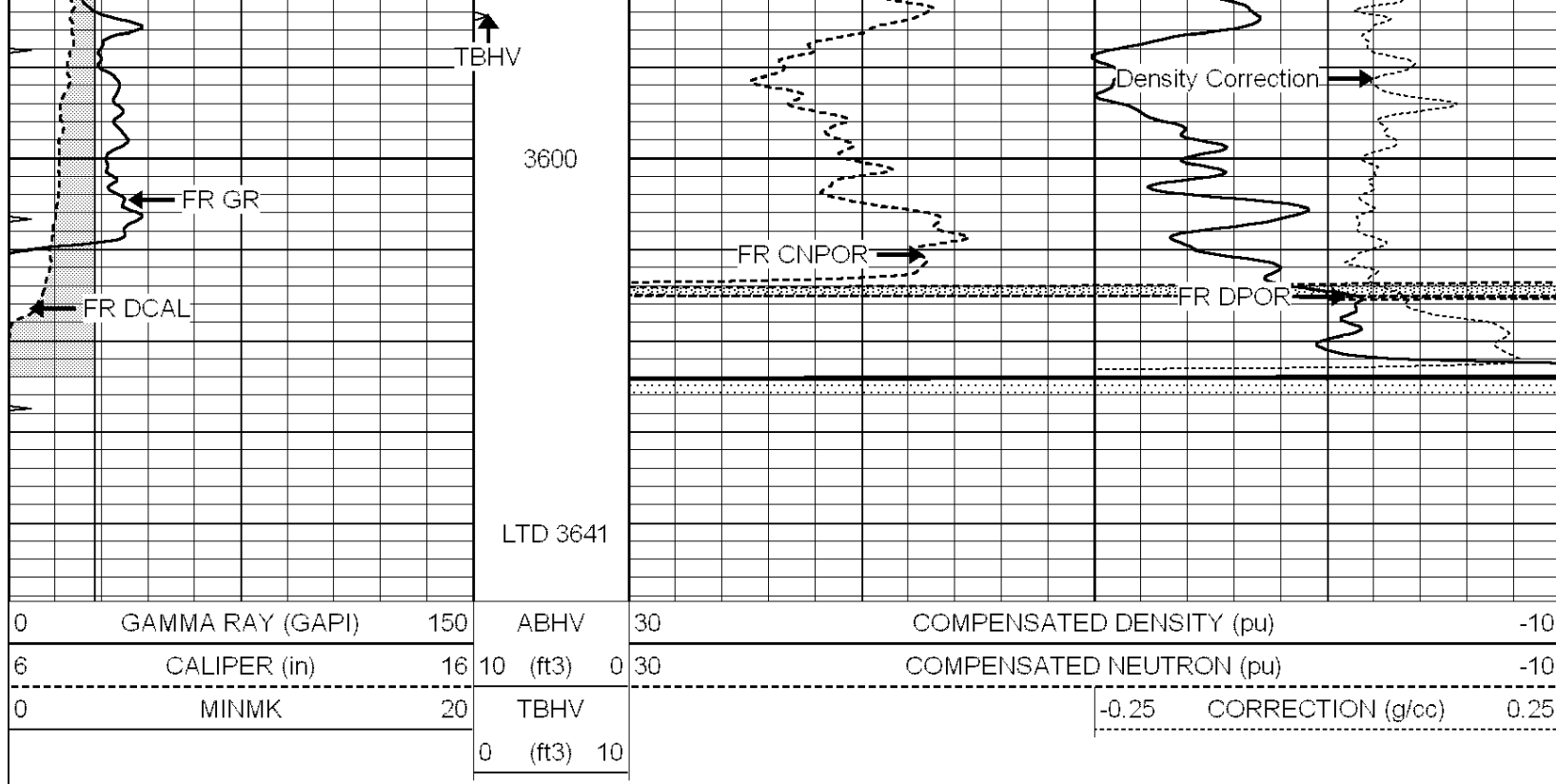
3400

3450

3500

ABHV
355C 5.5" CSG



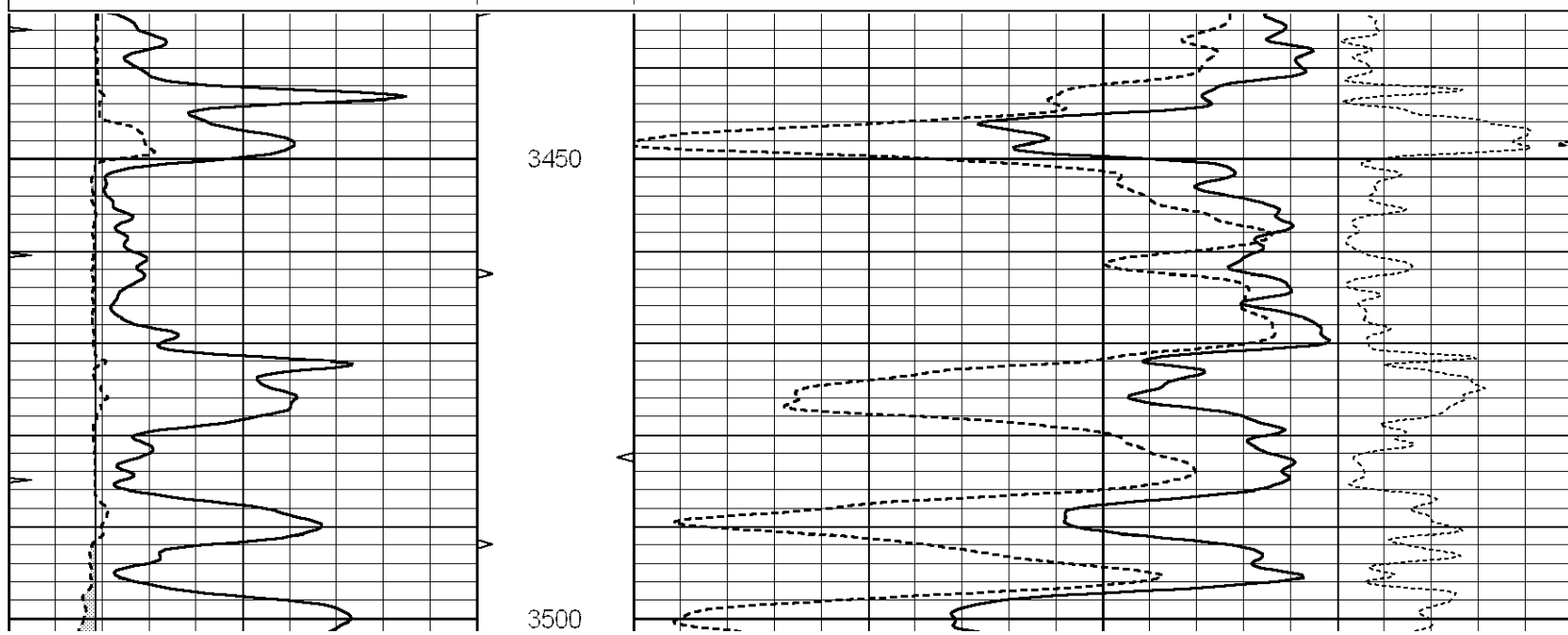


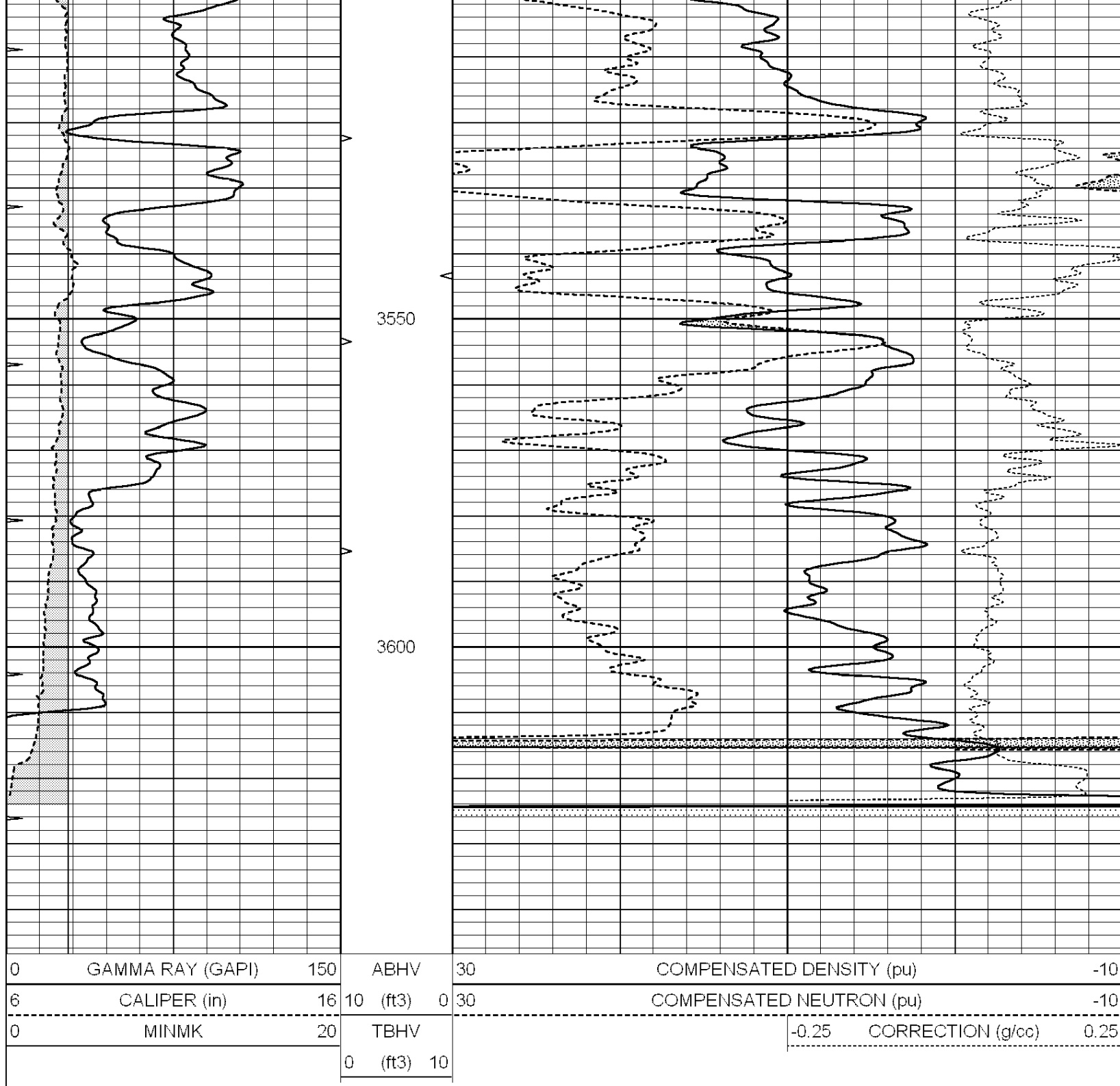
SUPERIOR
Hays,
Kansas

REPEAT SECTION

Database File: 008723ddn.db
 Dataset Pathname: pass2.3
 Presentation Format: den_neu
 Dataset Creation: Sun Apr 22 19:44:02 2012 by Calc Open-Cased 090629
 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: 008723ddn.db
 Dataset Pathname: pass3.3
 Dataset Creation: Sun Apr 22 19:32:50 2012 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model: PROBE9-DILG
 Surface Cal Performed: Sun Apr 22 06:58:49 2012
 Downhole Cal Performed: Mon Jul 28 12:02:56 2008
 After Survey Verification Performed: Mon Jul 28 12:02:56 2008

Surface Calibration

Readings

References

Results

Loop:	Air	Loop		Air	Loop		m	b
Deep	-0.014	0.629	V	0.000	400.000	mmho/m	550.000	-15.000
Medium	0.039	0.728	V	0.000	464.000	mmho/m	540.000	-18.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.011	0.610	V	0.000	400.000	mmho/m	667.135	-7.256
Medium	0.005	0.712	V	0.000	464.000	mmho/m	655.677	-3.102

Downhole Calibration								
Readings			References			Results		
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	14.508	388.384	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	166.367	504.400	mmho/m	1.000	0.000
LL3		7.500	V		1400.000	Ohm-m		
		0.000	V		20.000	Ohm-m		
		-7.200	V		3970.000	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:				GEAR1-GEARHART				
Source / Verifier:				147 / 147				
Master Calibration Performed:				Thu Apr 19 16:32:51 2012				

Master Calibration					
	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	1243.76	629.14	cps
Aluminum	2.580	g/cc	282.16	435.01	cps
Spine Angle = 76.03			Density/Spine Ratio = 0.569		
	Size		Reading		
Small Ring	9.70	in	3.50	V	
Large Ring	16.00	in	5.30	V	

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:			GR5					
Tool Model:			OPEN					
Performed:			Sun Apr 22 06:58:16 2012					

Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.7000	GAPI/cps