



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

COMPENSATED DENSITY/NEUTRON LOG

Company	SHELBY RESOURCES, LLC.	Company	SHELBY RESOURCES, LLC.
Well	NANCY #3-17	Well	NANCY #3-17
Field	TRAPP	Field	TRAPP
County	BARTON	County	BARTON
State	KANSAS	State	KANSAS
Location:	API # : 15-009-25969-00-00	Other Services	DIL/MEL SONIC
Permanent Datum	2146' FNL & 1701' FWL NE - SW - SE - NW	Elevation	K.B. 1978 D.F. 1976 G.L. 1965
Log Measured From	SEC 17 TWP 17S RGE 13W		
Drilling Measured From	GROUND LEVEL Elevation 1965 KELLY BUSHING 13' A.G.L. KELLY BUSHING		
Date	5/9/14		
Run Number	ONE		
Depth Driller	3525		
Depth Logger	3528		
Bottom Logged Interval	3504		
Top Log Interval	2800		
Casing Driller	8 5/8" @ 948		
Casing Logger			
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 4,400 PPM	
Density / Viscosity	9.2/68		
pH / Fluid Loss	11.0/7.2		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.60 @ 91F		
Rmt @ Meas. Temp	0.80 @ 91F		
Rmc @ Meas. Temp	0.96 @ 91F		
Source of Rmt / Rmc	MEASUREMENT		
Rm @ BHT	.65 @ 112F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	123F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	IAN MABB		
Witnessed By	JEREMY SCHWARTZ		

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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.

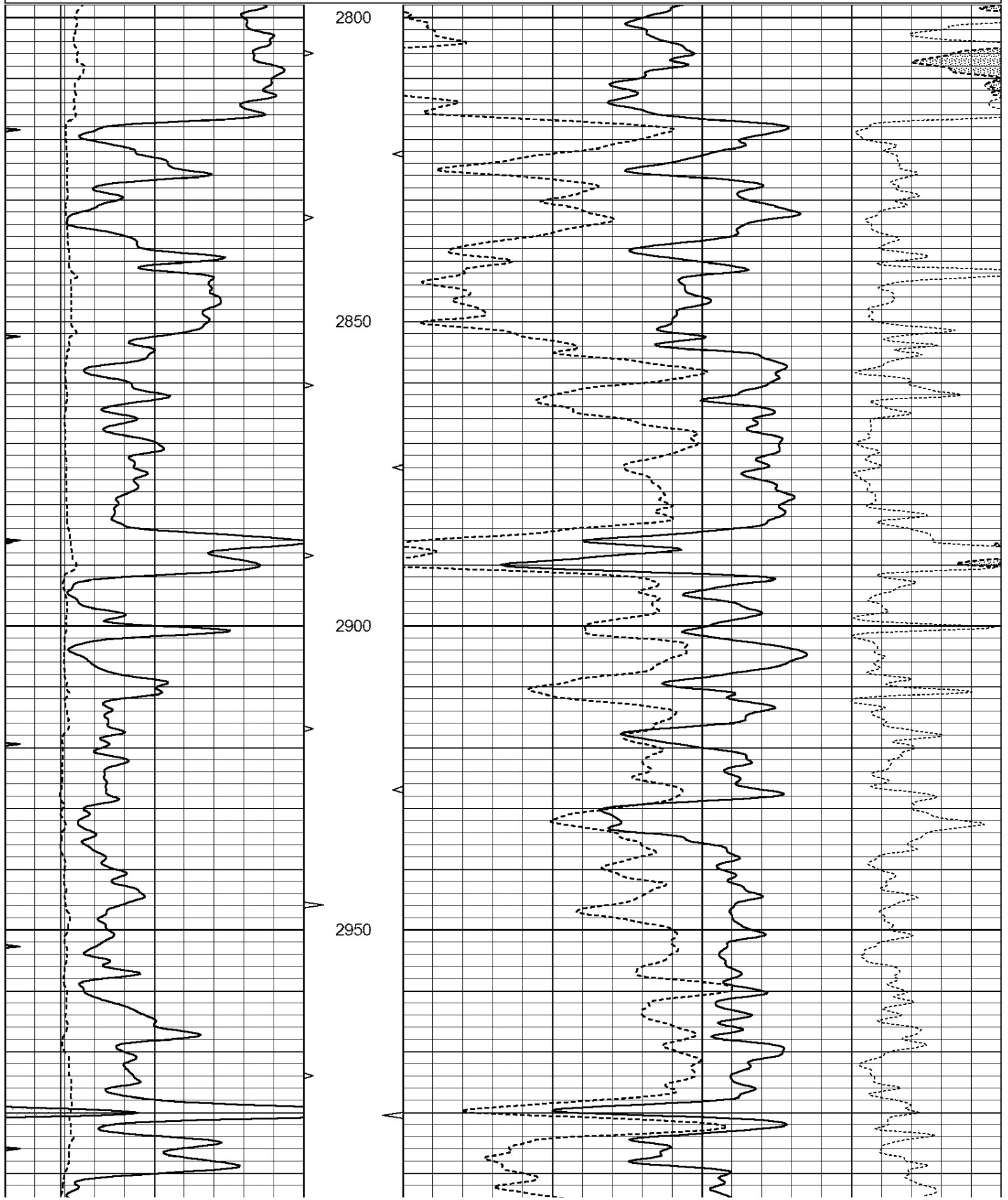
Comments

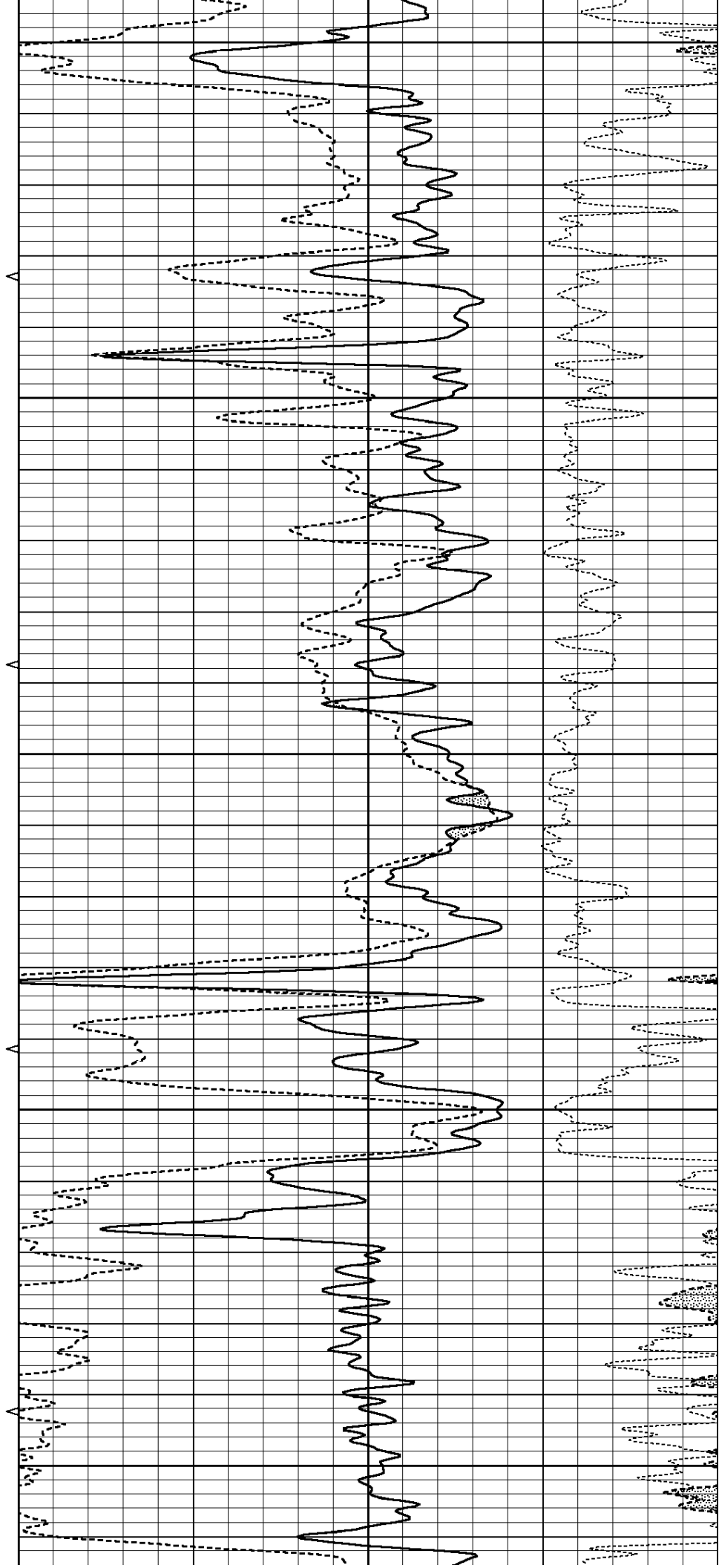
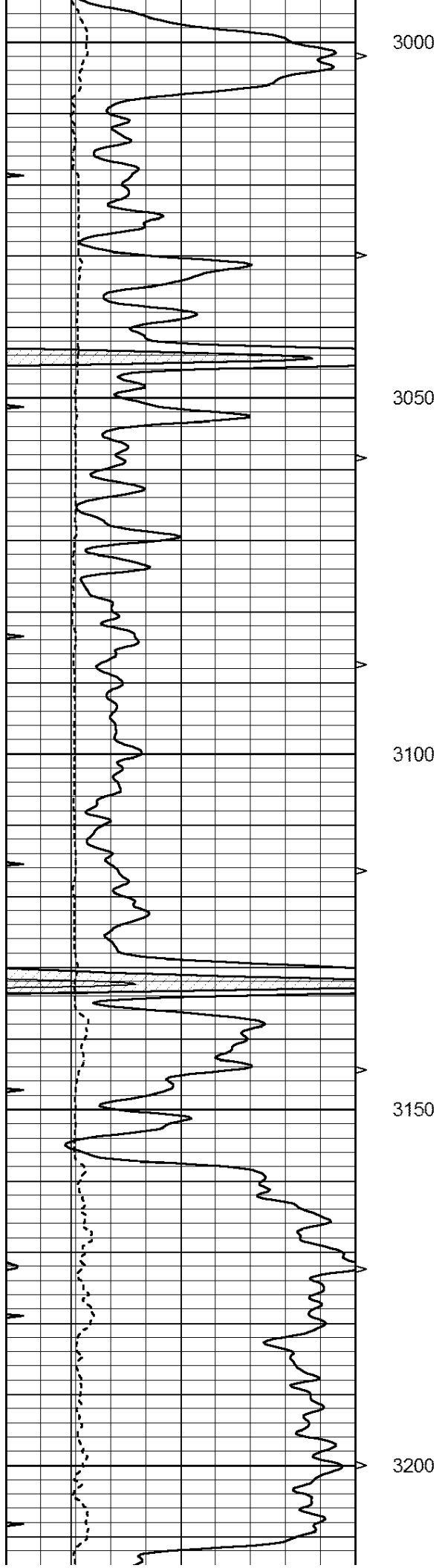
THANK YOU FOR USING NABORS, HAYS, KS. (785) 628-6395
DIRECTIONS:

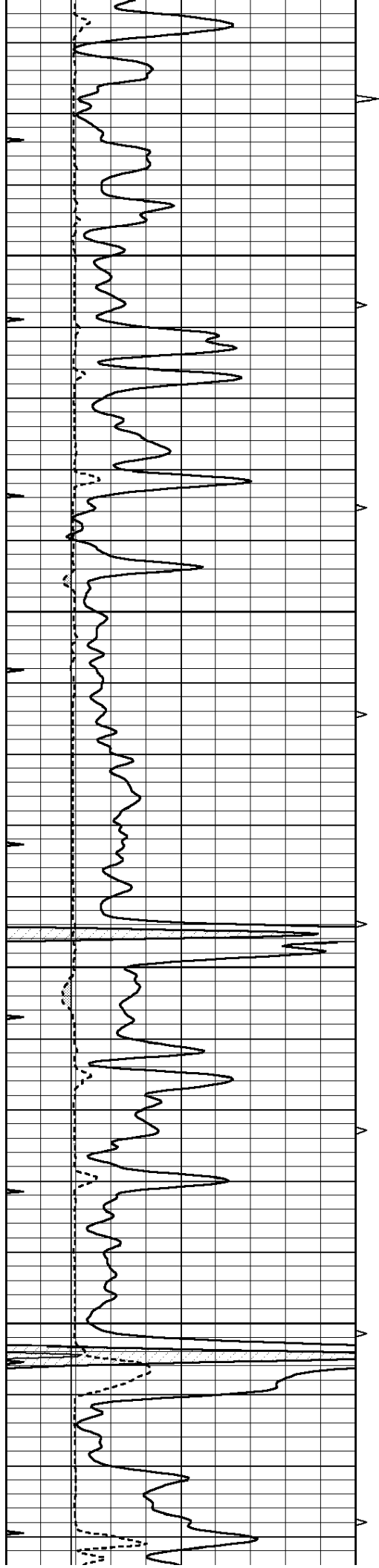
HOSINGTON, KS. - 4 MILES NORTH ON SUSANK RD. - 1 MILE WEST - 1/4 SOUTH - EAST INTO

Database File: 24241ddn.db
Dataset Pathname: pass5.1
Presentation Format: den_neu
Dataset Creation: Fri May 09 23:38:27 2014 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

Charted by:		Depth in Feet scaled 1:12.10				
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		





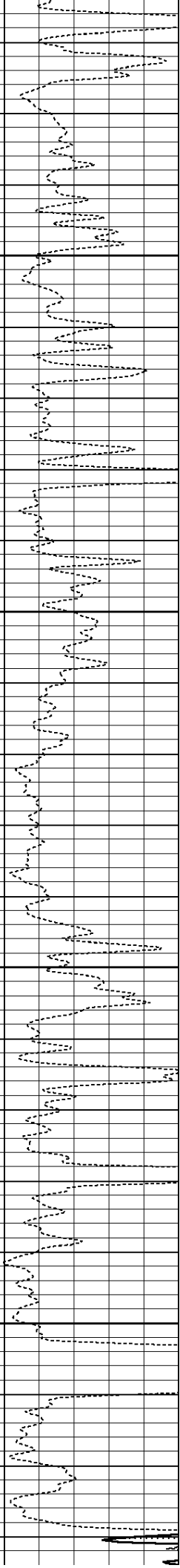
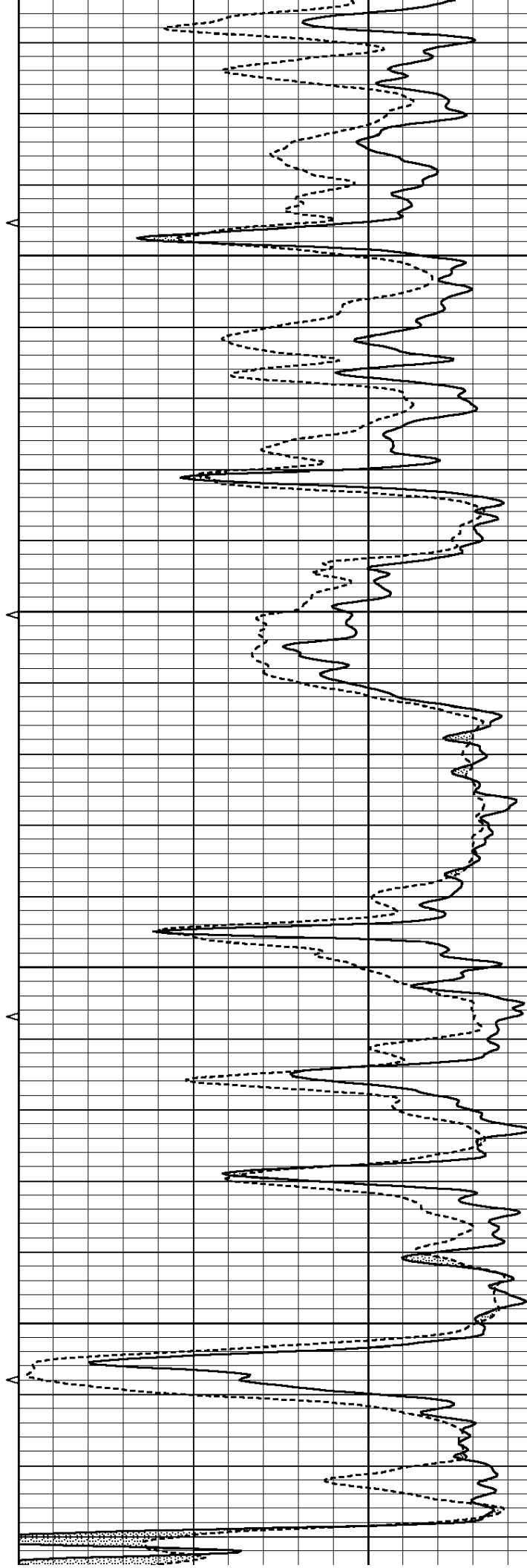


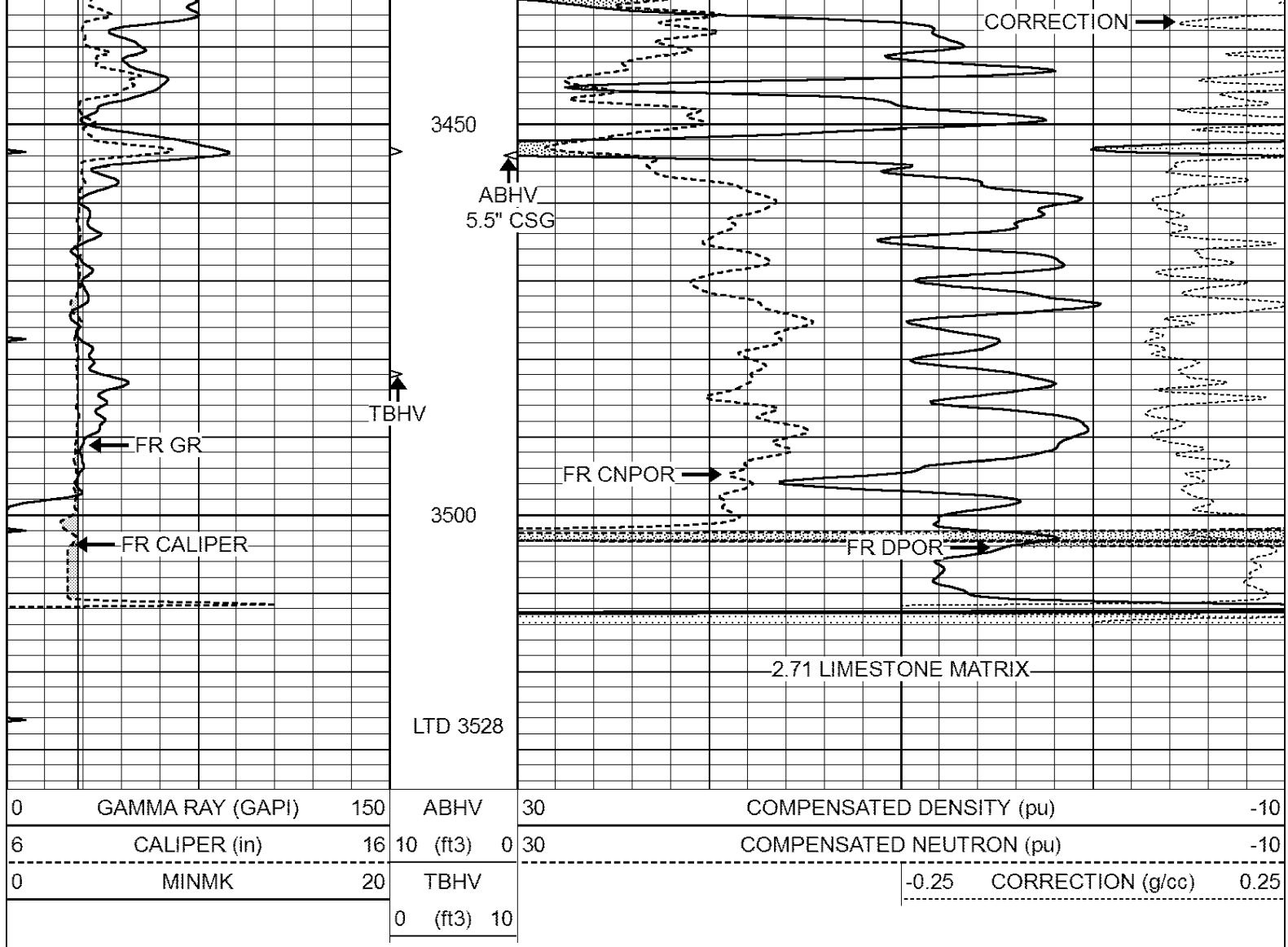
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3300

3350

3400

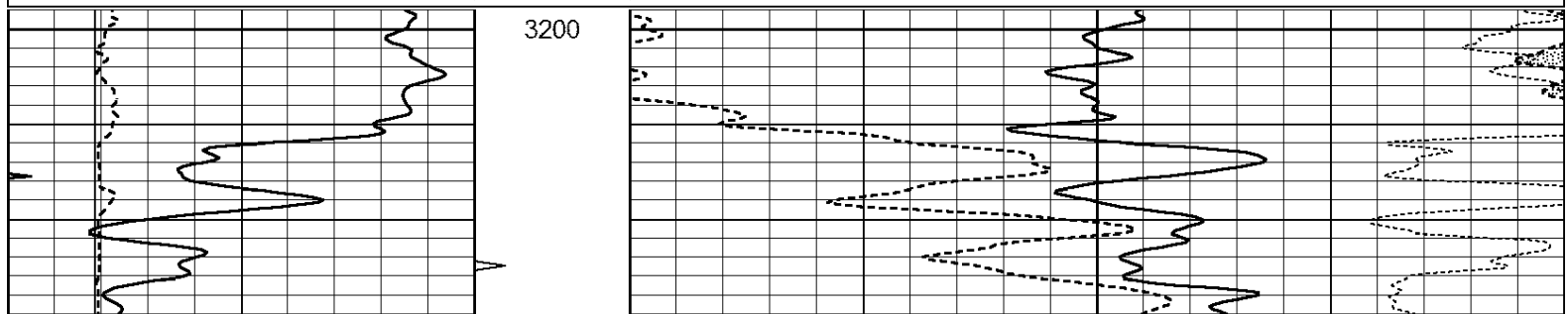


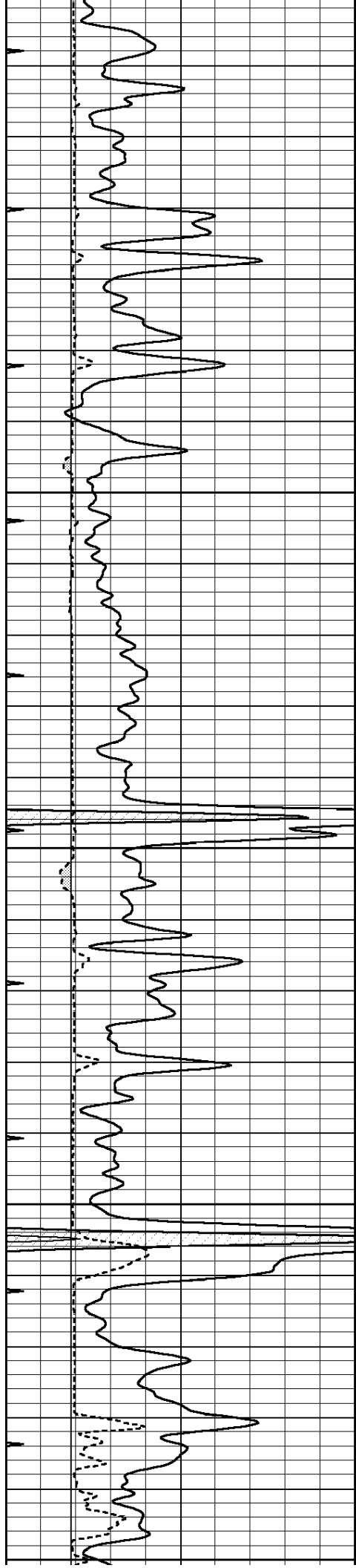


REPEAT SECTION

Database File: 24241ddn.db
 Dataset Pathname: pass4.1
 Presentation Format: den_neu
 Dataset Creation: Fri May 09 23:05:30 2014 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					





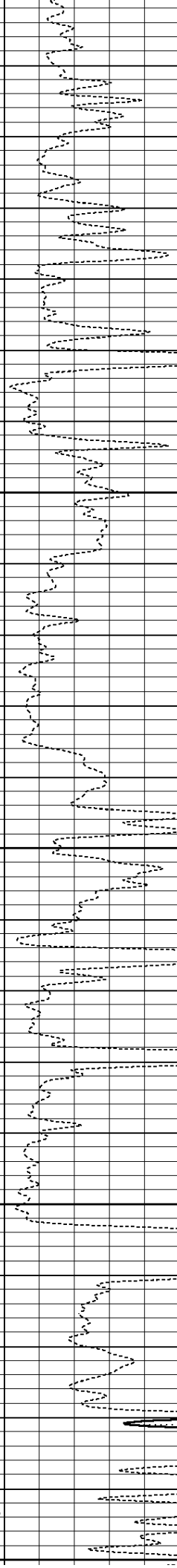
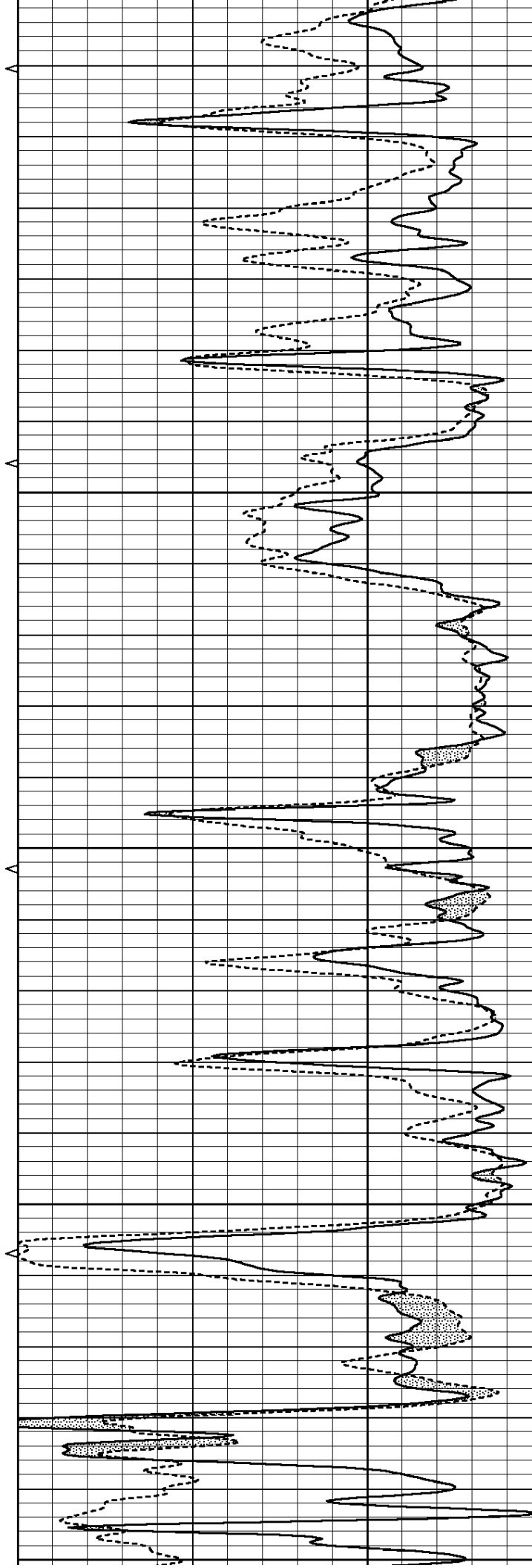
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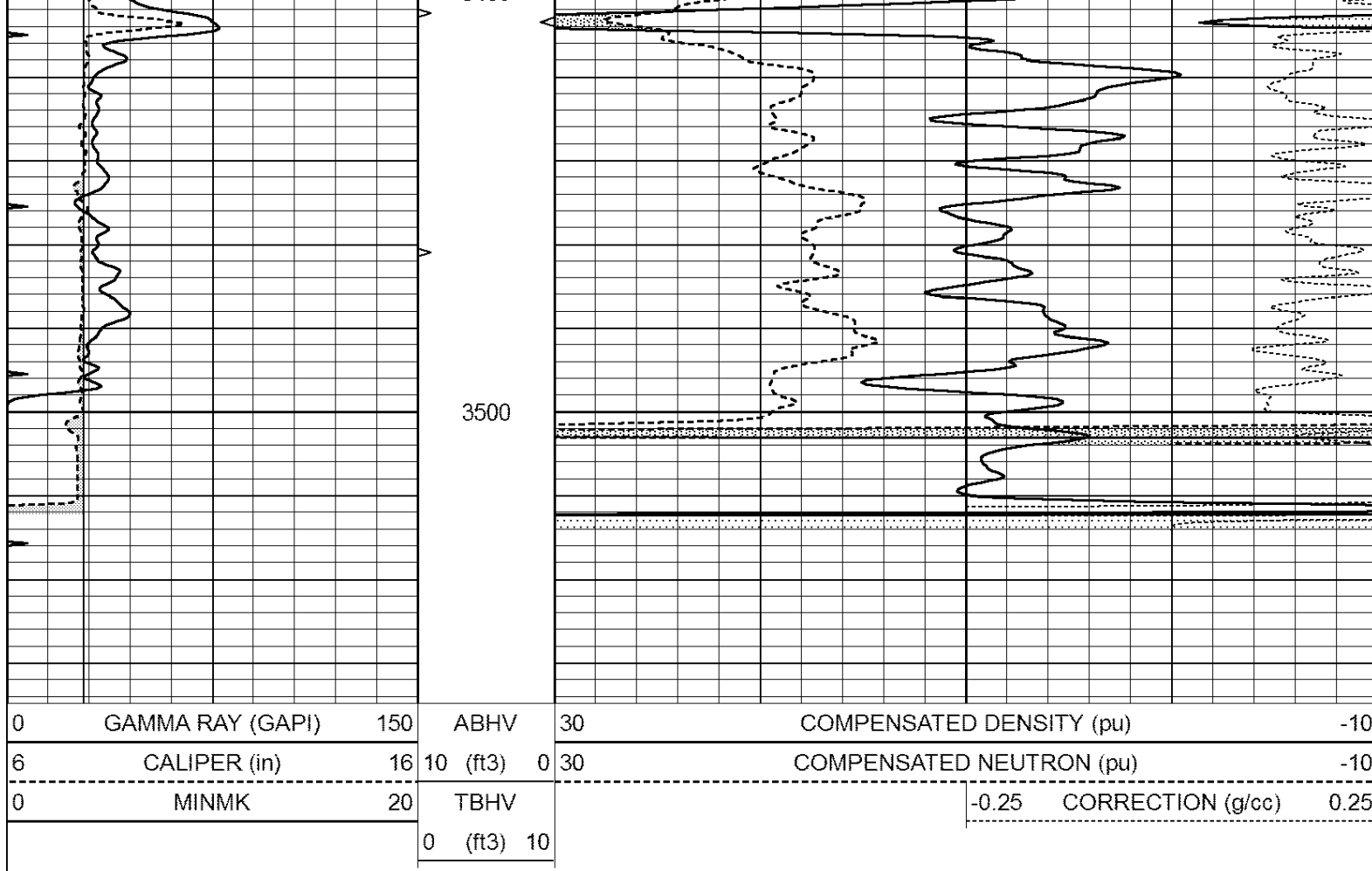
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3350

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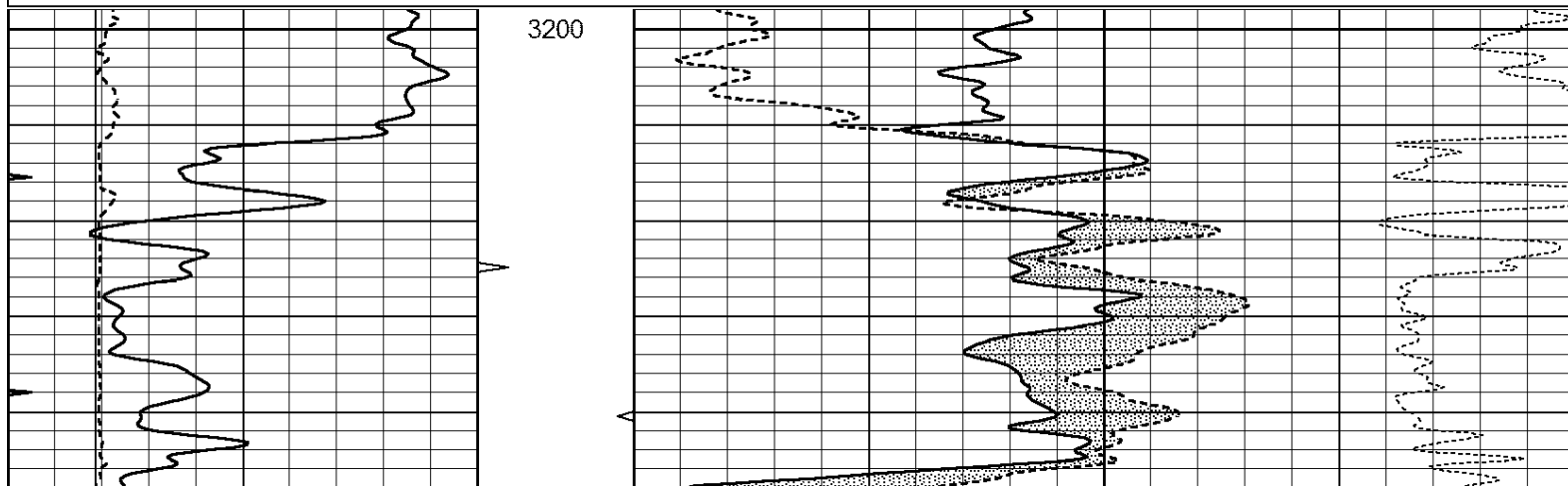
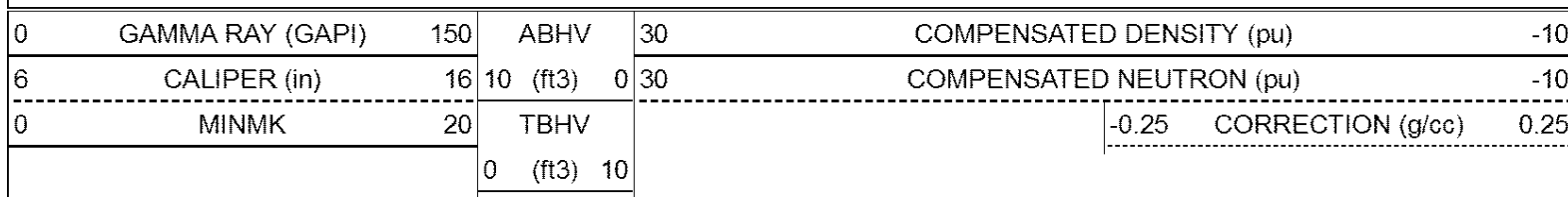
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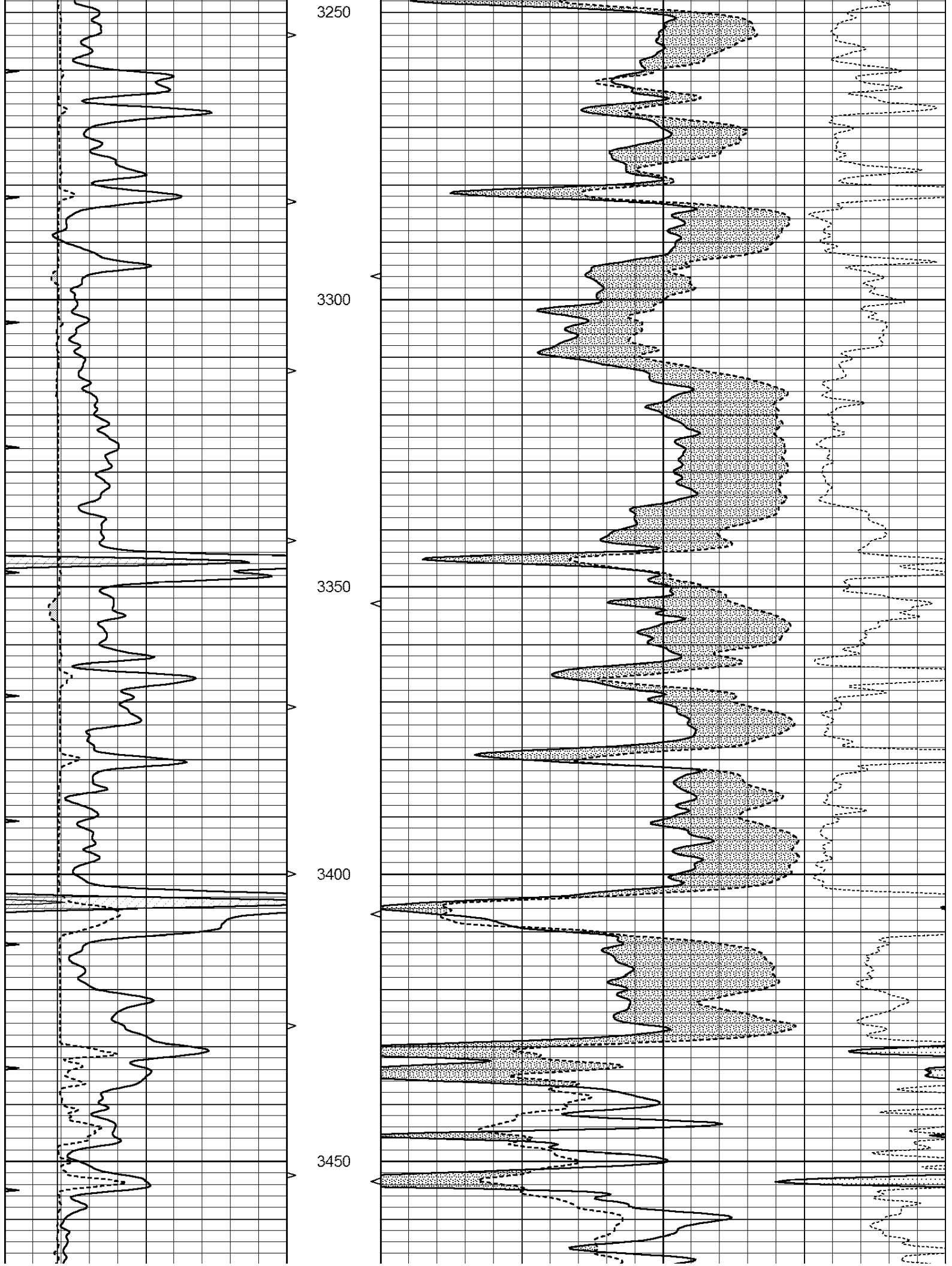


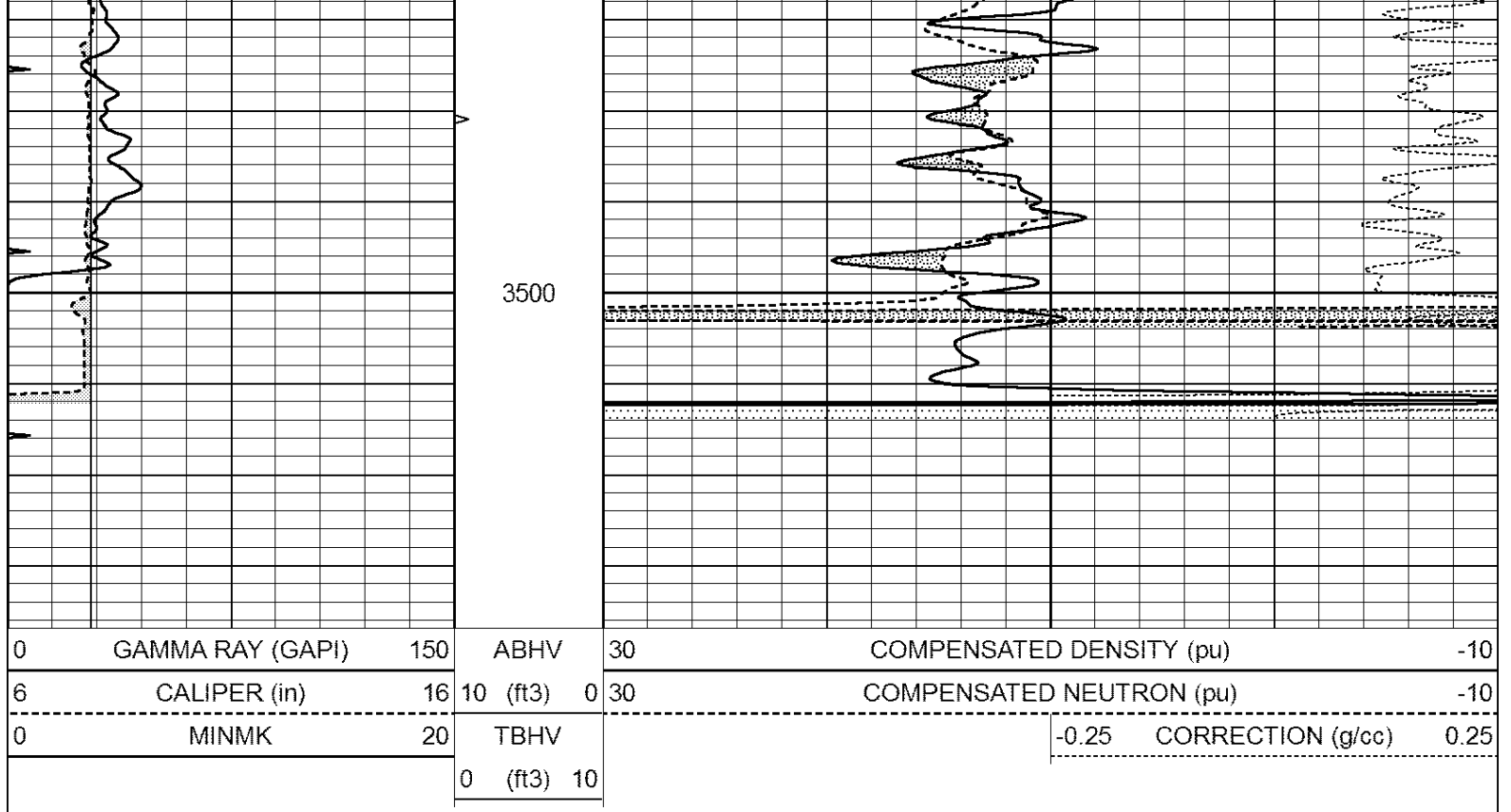


DOLOMITE MATRIX

Database File: 24241ddn.db
 Dataset Pathname: pass4.D
 Presentation Format: den_neu
 Dataset Creation: Fri May 09 23:13:29 2014
 Charted by: Depth in Feet scaled 1:240







Calibration Report

Database File: 24241ddn.db
 Dataset Pathname: pass5.1
 Dataset Creation: Fri May 09 23:38:27 2014 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

Readings				References			Results	
Loop:	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
LL3		7.500	V		1500.000	Ohm-m		
		0.000	V		20.000	Ohm-m		
		-7.200	V		3800.000	mmho-m		

After Survey Verification

Readings	Targets	Results
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	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:			GEAR4-GEARHART					
Source / Verifier:			143 / 143					
Master Calibration Performed:			Wed Sep 18 03:03:09 2013					
Before Survey Verification Performed:								
After Survey Verification Performed:								

Master Calibration						
	Density			Far Detector	Near Detector	
Magnesium	1.710	g/cc		1075.98	532.39	cps
Aluminum	2.560	g/cc		286.51	422.88	cps
Spine Angle = 80.13			Density/Spine Ratio = 0.633			
	Size			Reading		
Small Ring	8.00	in		3.21	V	
Large Ring	14.00	in		5.46	V	

Before Survey Verification								
Target			Measured					
g/cc			g/cc					
g/cc			g/cc					
g/cc			g/cc					

After Survey Verification								
Target			Measured					
g/cc			g/cc					
g/cc			g/cc					
g/cc			g/cc					

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	

PRE-SURVEY VERIFICATION								
Detector			Readings		Measured		Target	
1)	Short Space		cps					
	Long Space		cps		pu		pu	
2)	Short Space		cps					
	Long Space		cps		pu			
3)	Short Space		cps					
	Long Space		cps		pu			

	Long Space	cps	pu
POST-SURVEY VERIFICATION			
	Detector	Readings	Measured Target
1)	Short Space	cps	
	Long Space	cps	pu pu
2)	Short Space	cps	
	Long Space	cps	pu pu
3)	Short Space	cps	
	Long Space	cps	pu pu

Gamma Ray Calibration Report			
Serial Number:	GR6		
Tool Model:	OPEN		
Performed:	Tue May 06 06:07:07 2014		
Calibrator Value:	150.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	276.0	cps	
Sensitivity:	0.8035	GAPI/cps	