



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

COMPENSATED DENSITY/NEUTRON LOG

Company		MAI OIL OPERATIONS	
Well		MILLER FARMS #3	
Field		BARRETT	
County		BARTON	
State		KANSAS	
Location:		API # : 15-009-26045-0000 1465' FNL & 1460' FWL NE NE SW NE SEC 36 TWP 16S RGE 14W	
Permanent Datum		GROUND LEVEL Elevation 1973	
Log Measured From		KELLY BUSHING 8' A.G.L.	
Drilling Measured From		KELLY BUSHING	
Date		11/23/14	
Run Number		ONE	
Depth Driller		3675	
Depth Logger		3676	
Bottom Logged Interval		3642	
Top Log Interval		2900	
Casing Driller		8 5/8" @ 515	
Casing Logger		514	
Bit Size		7 7/8"	
Type Fluid in Hole		CHEMICAL MUD	
Density / Viscosity		9.2/55	
pH / Fluid Loss		9.5/9.6	
Source of Sample		FLOWLINE	
Rm @ Meas. Temp		.50 @ 72F	
Rmt @ Meas. Temp		.37 @ 72F	
Rmc @ Meas. Temp		.60 @ 72F	
Source of Rmt / Rmc		MEASUREMENT	
Rm @ BHT		.32 @ 112F	
Time Circulation Stopped		2 HOURS	
Time Logger on Bottom		112F	
Maximum Recorded Temperature		4010	
Equipment Number		HAYS, KANSAS	
Location		JASON CAPPELLUCCI	
Recorded By		KURT TALBOTT	
Witnessed By			

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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:
 SUSANK, KS. - 1 SOUTH - 2 1/2 WEST - SOUTH INTO

Database File:

26410ddn.db

Dataset Pathname:

pass3.1

Presentation Format:

den_neu

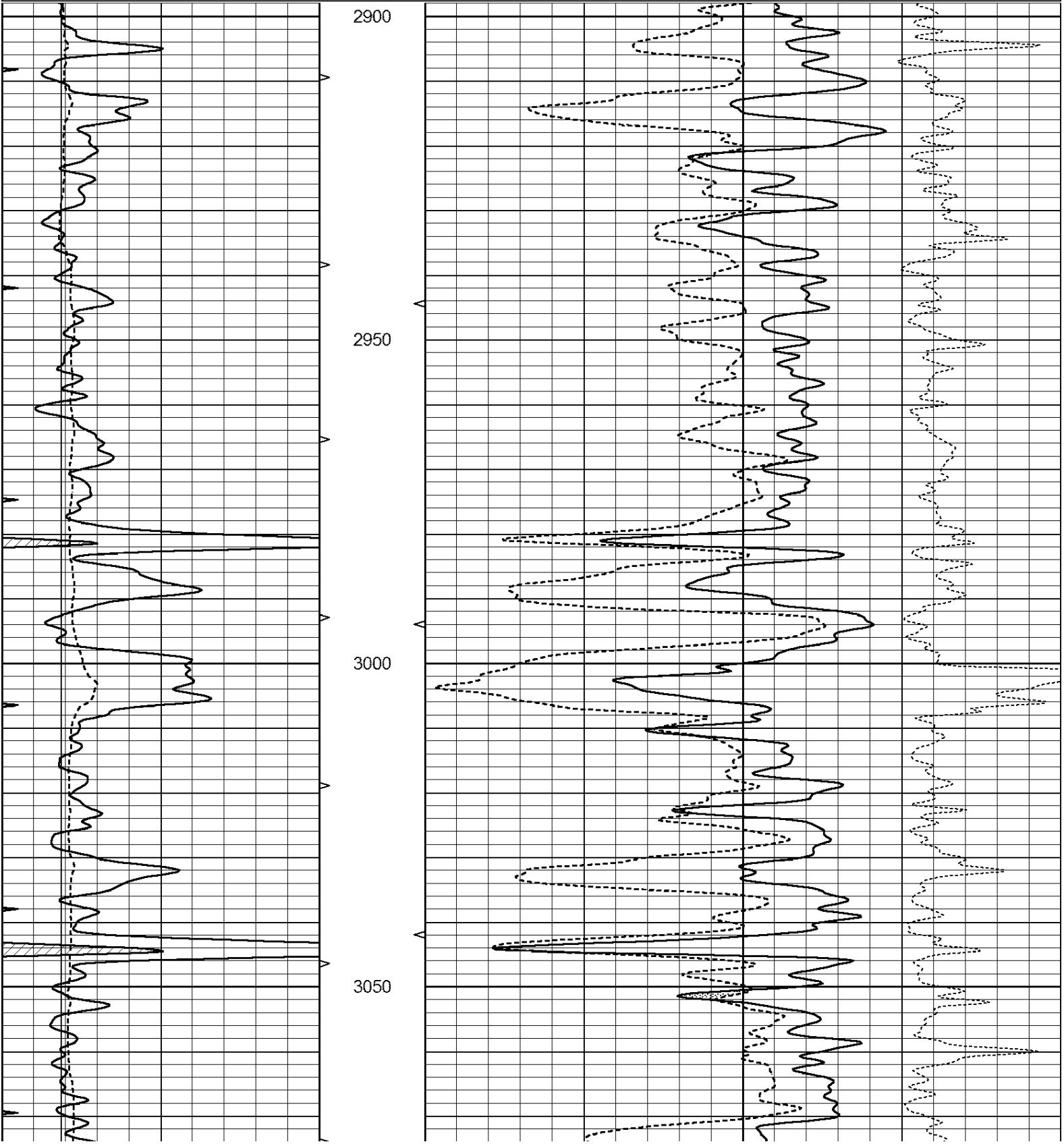
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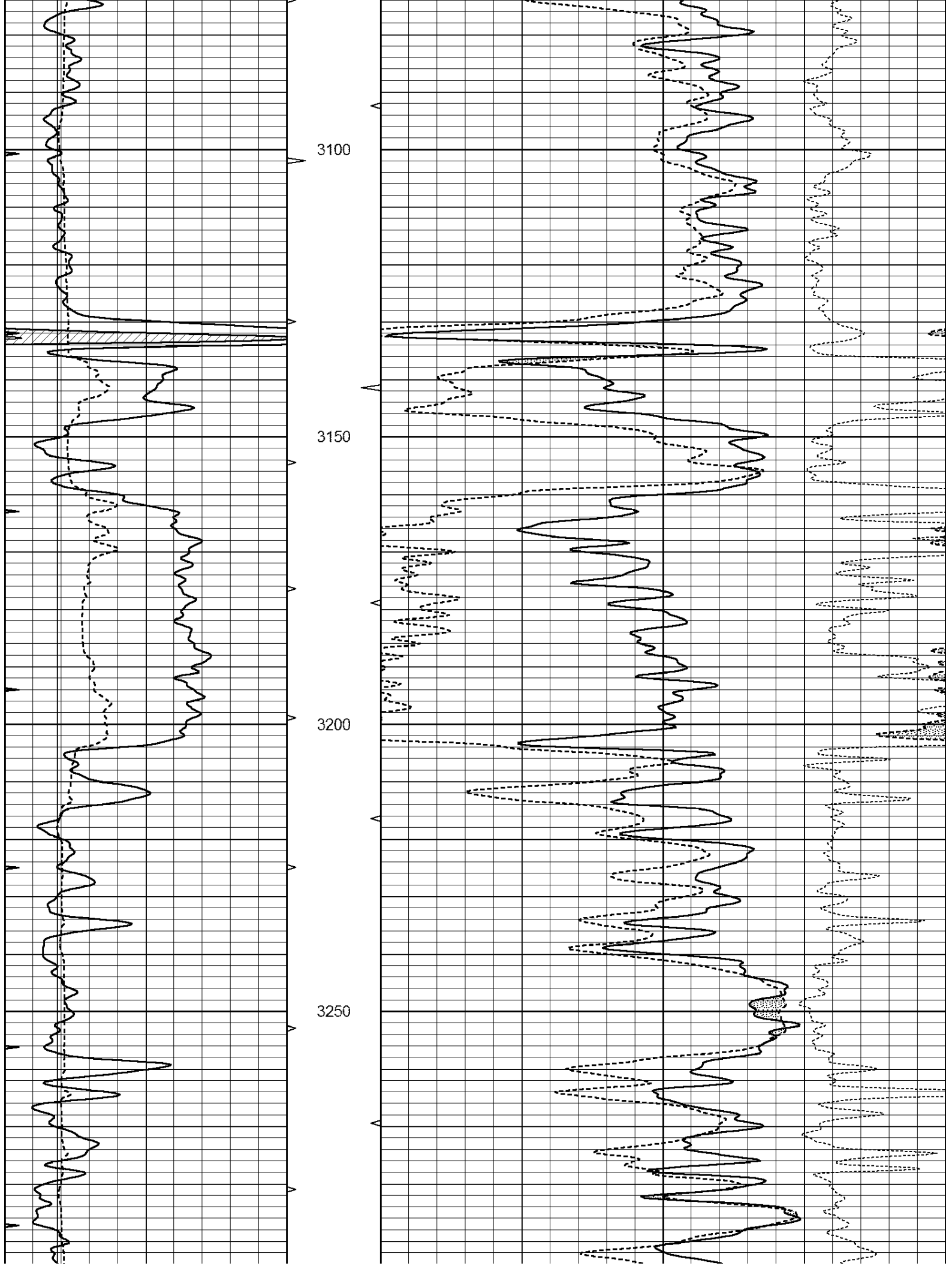
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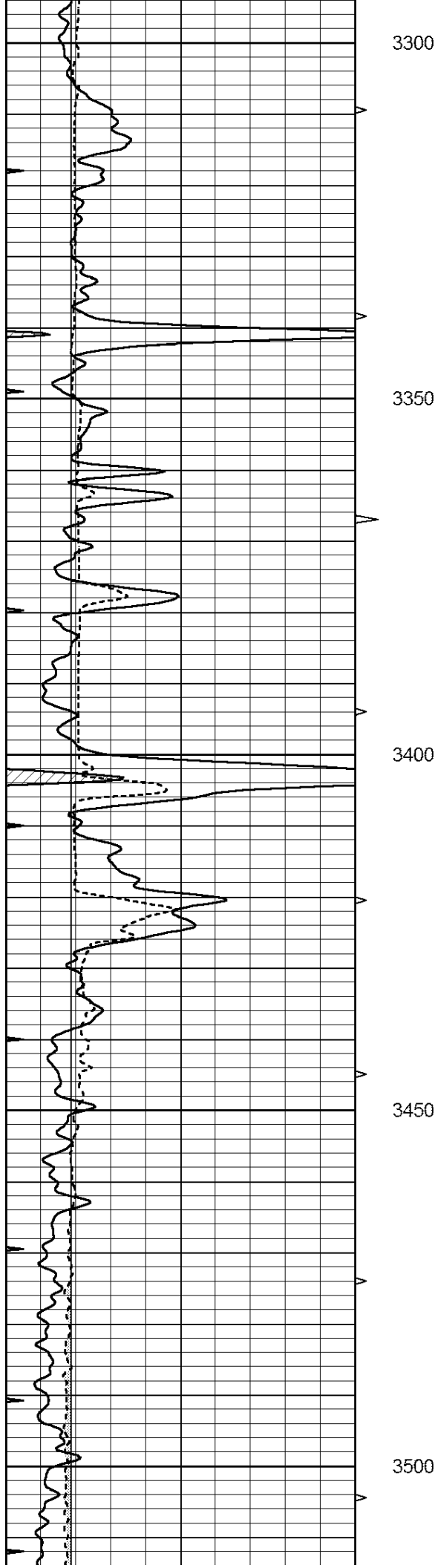
Charted by:

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		







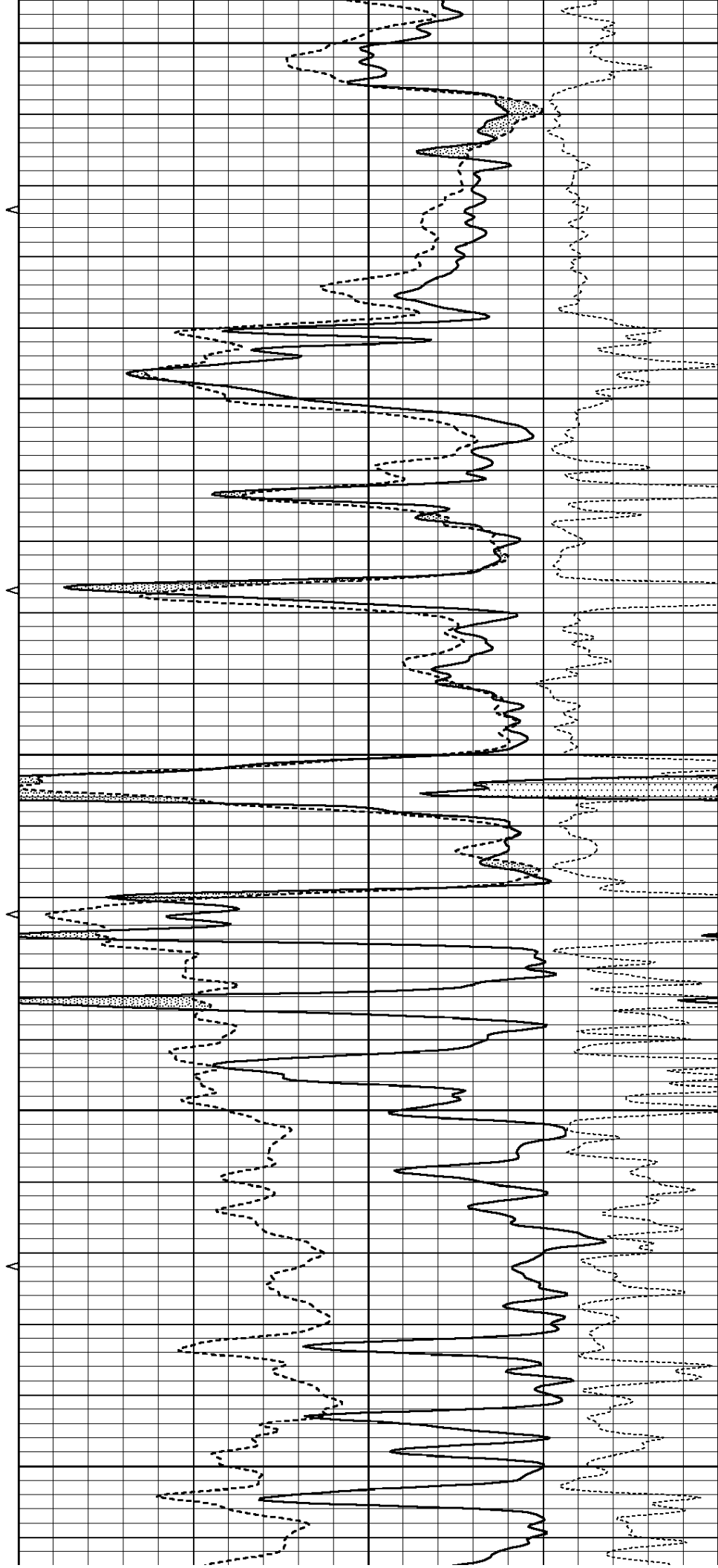
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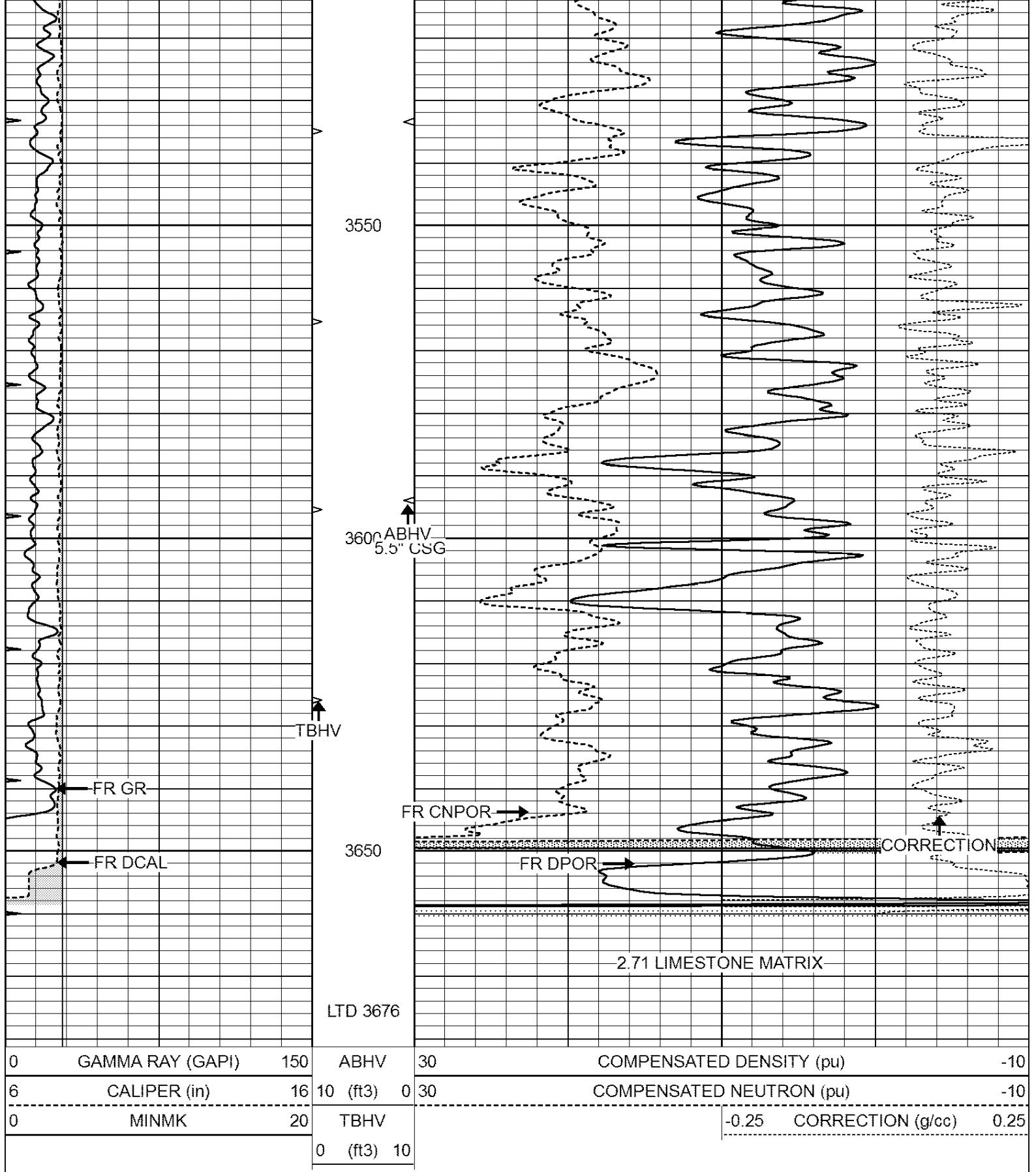
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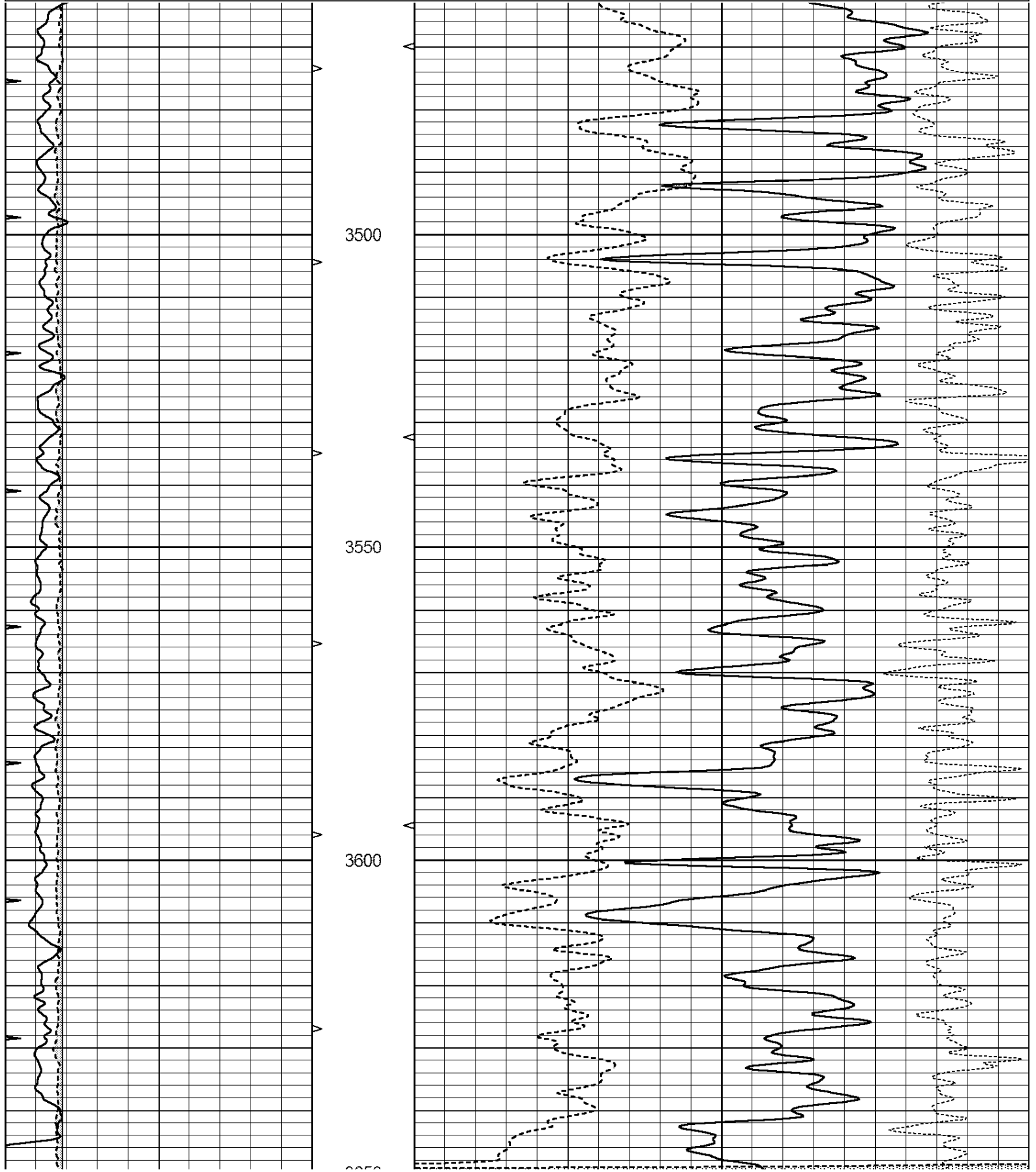


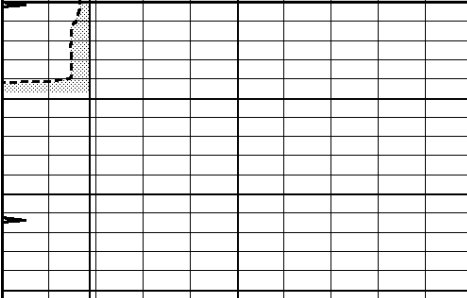
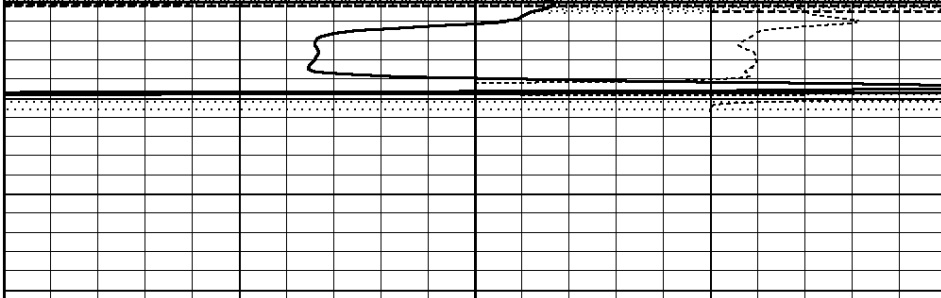
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REPEAT SECTION

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		



			3650					
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					

Source / Vendor:
Master Calibration Performed:
Before Survey Verification Performed:
After Survey Verification Performed:

1407-140
Wed Sep 18 03:03:09 2013

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	

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 Long Space	cps cps	pu pu
Gamma Ray Calibration Report			
Serial Number:		GR6	
Tool Model:		OPEN	
Performed:		Sun Aug 17 15:23:09 2014	
Calibrator Value:		150.0	GAPI
Background Reading:		0.0	cps
Calibrator Reading:		276.0	cps
Sensitivity:		0.7000	GAPI/cps