



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

COMPENSATED DENSITY/NEUTRON LOG

Company		MAI OIL OPERATIONS, INC.	
Well	VINE #10		
Field	SOLOMON		
County	ELLIS	State	KANSAS
Location:		API # : 15-051-26582-0000 485' FNL & 2000' FWL SW - NE - NE - NW	
Permanent Datum Log Measured From Drilling Measured From		SEC 27 TWP 14S RGE 19W GROUND LEVEL Elevation 2126 KELLY BUSHING & A.G.L. KELLY BUSHING	
		Other Services DIL MICRO	
Date	10/13/13		
Run Number	ONE		
Depth Driller	3690		
Depth Logger	3692		
Bottom Logged Interval	3668		
Top Log Interval	3000		
Casing Driller	8 5/8" @ 210'		
Casing Logger	214		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 4000 PPM	
Density / Viscosity	8.9/54		
pH / Fluid Loss	9.5/8.8		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	.80 @ 64F		
Rmf @ Meas. Temp	.60 @ 64F		
Rmc @ Meas. Temp	.96 @ 64F		
Source of Rmf / Rmc	MEASURED		
Rim @ BHT	.45 @ 113F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	4:00 A.M.		
Maximum Recorded Temperature	113F		
Equipment Number	680		
Location	HAYS, KS.		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	WYATT URBAN		

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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 COMPLETION & PRODUCTION SVCS. (785) 628-6395

DIRECTIONS:
I-70 & YOCEMENTO RD. - 10 NORTH - EAST INTO

Database File:

011795ddn.db

Dataset Pathname:

pass3.1

Presentation Format:

_den_neu

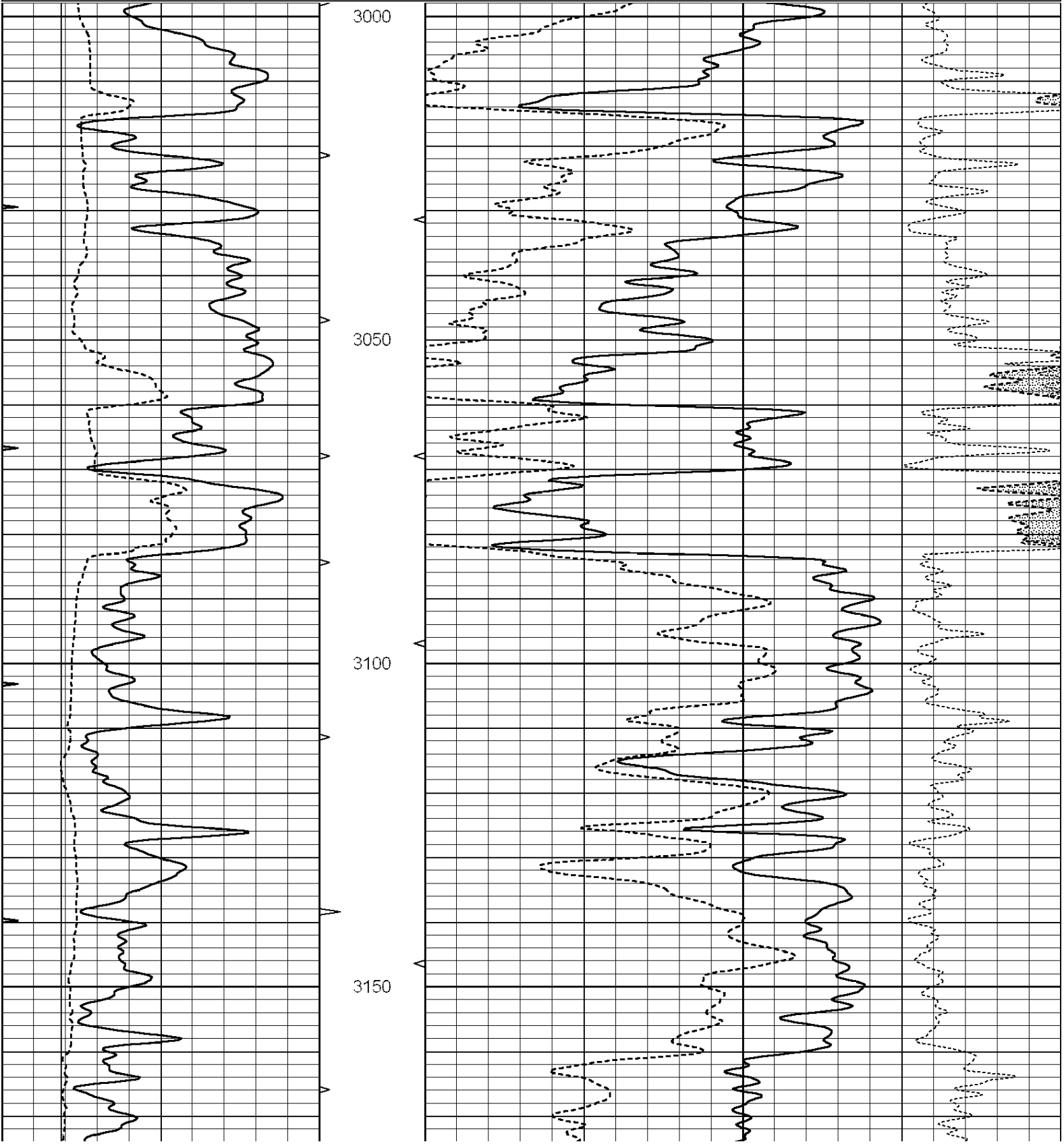
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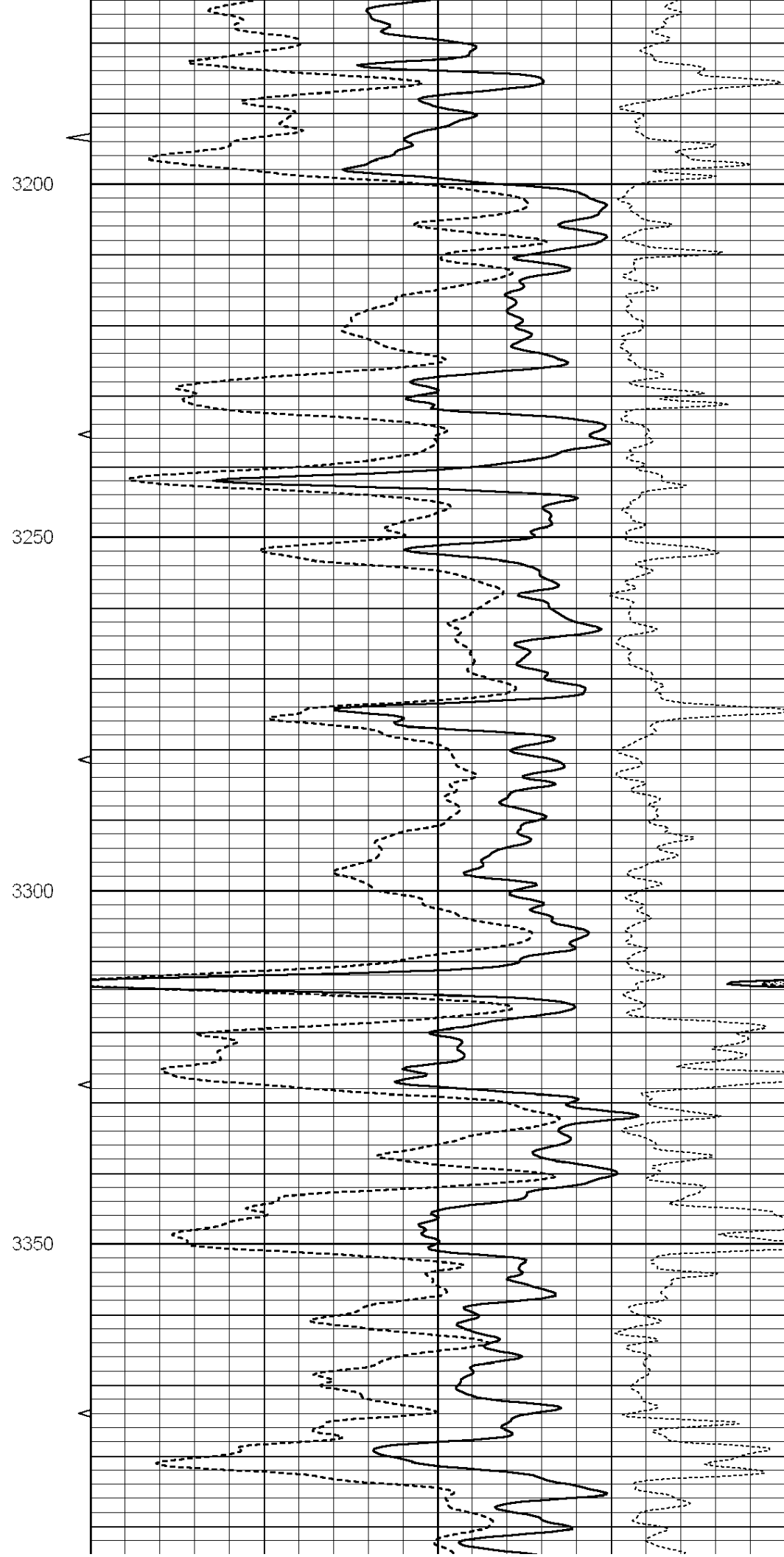
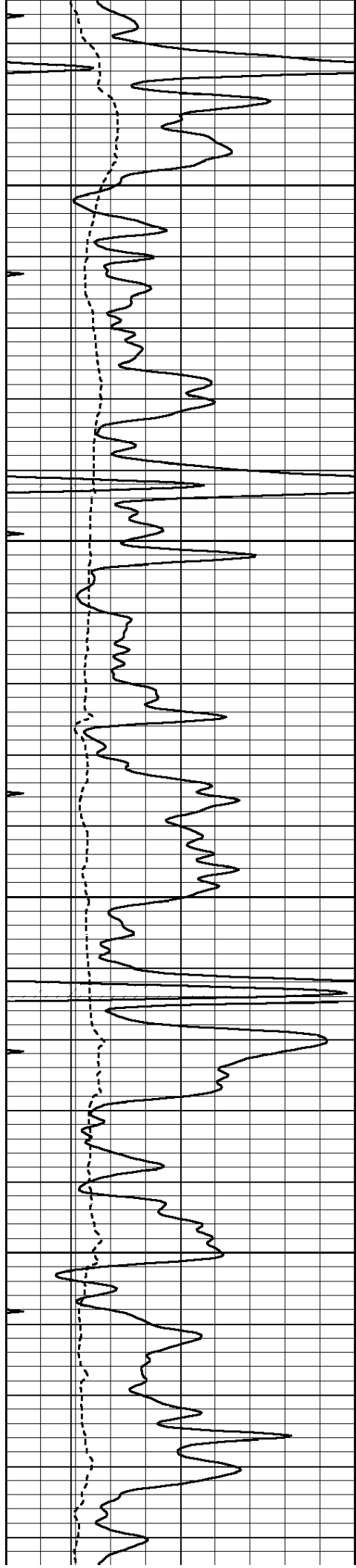
Sun Oct 13 04:40:11 2013 by Calc Open-Cased 090629

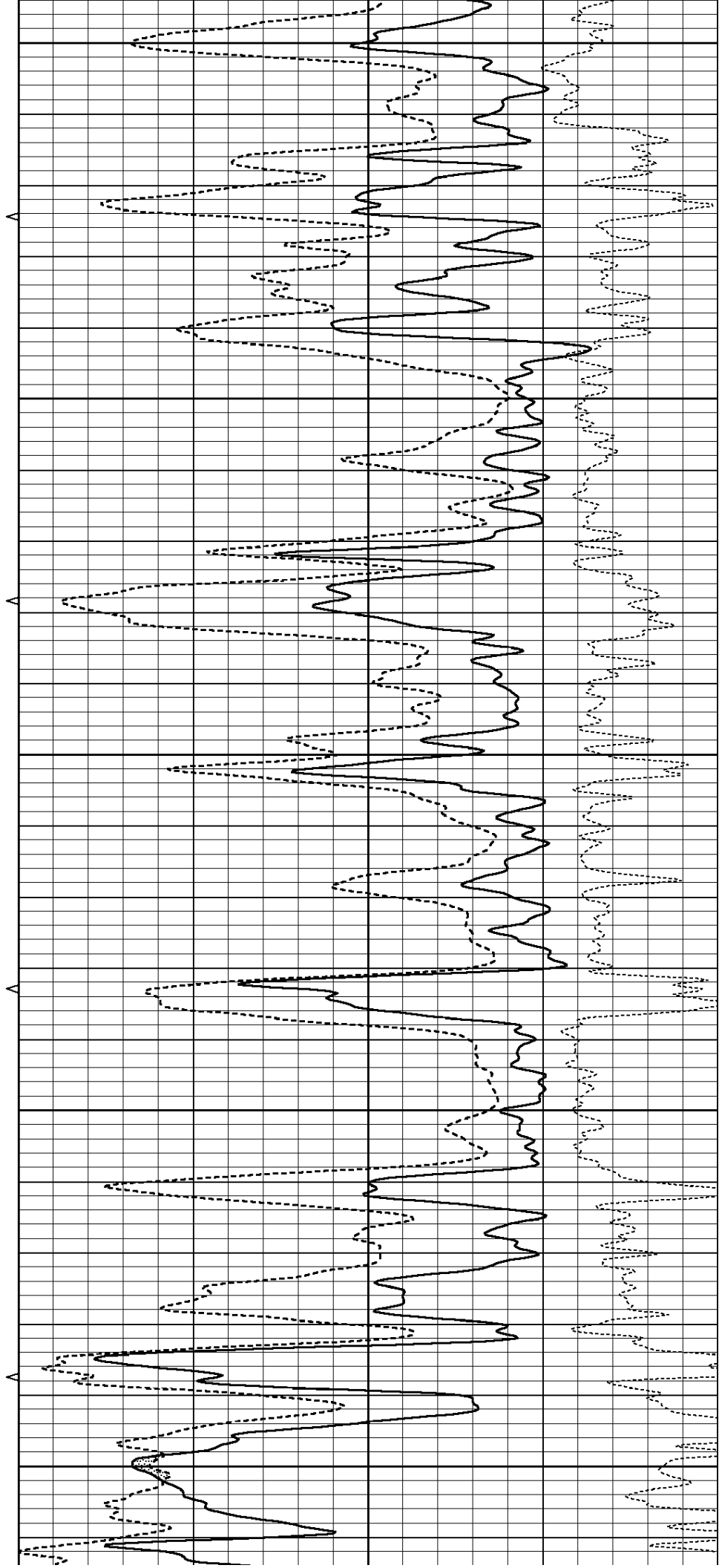
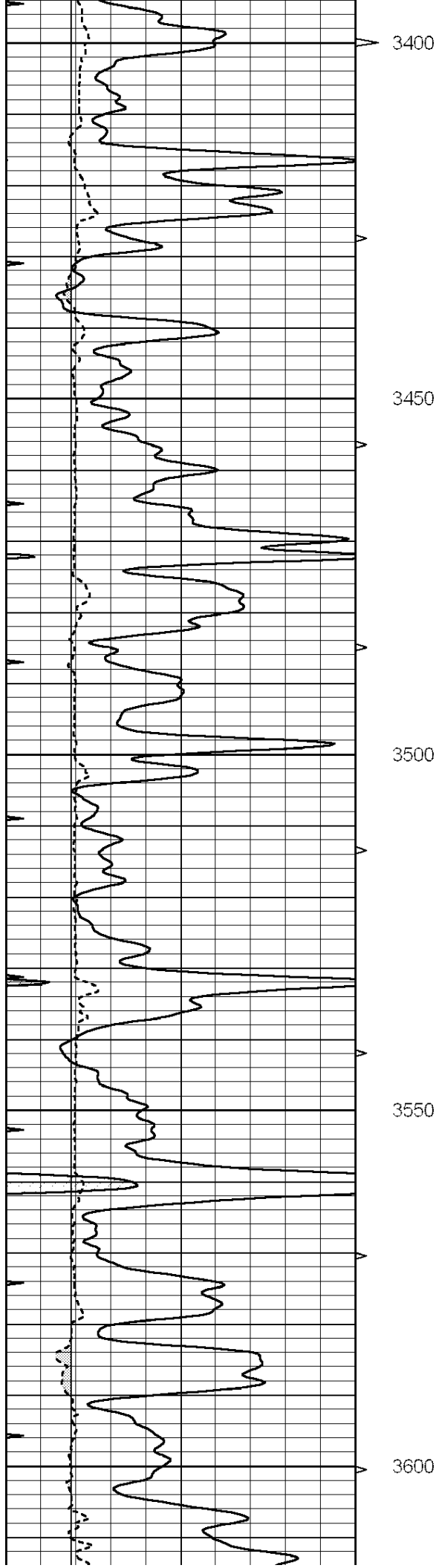
Charted by:

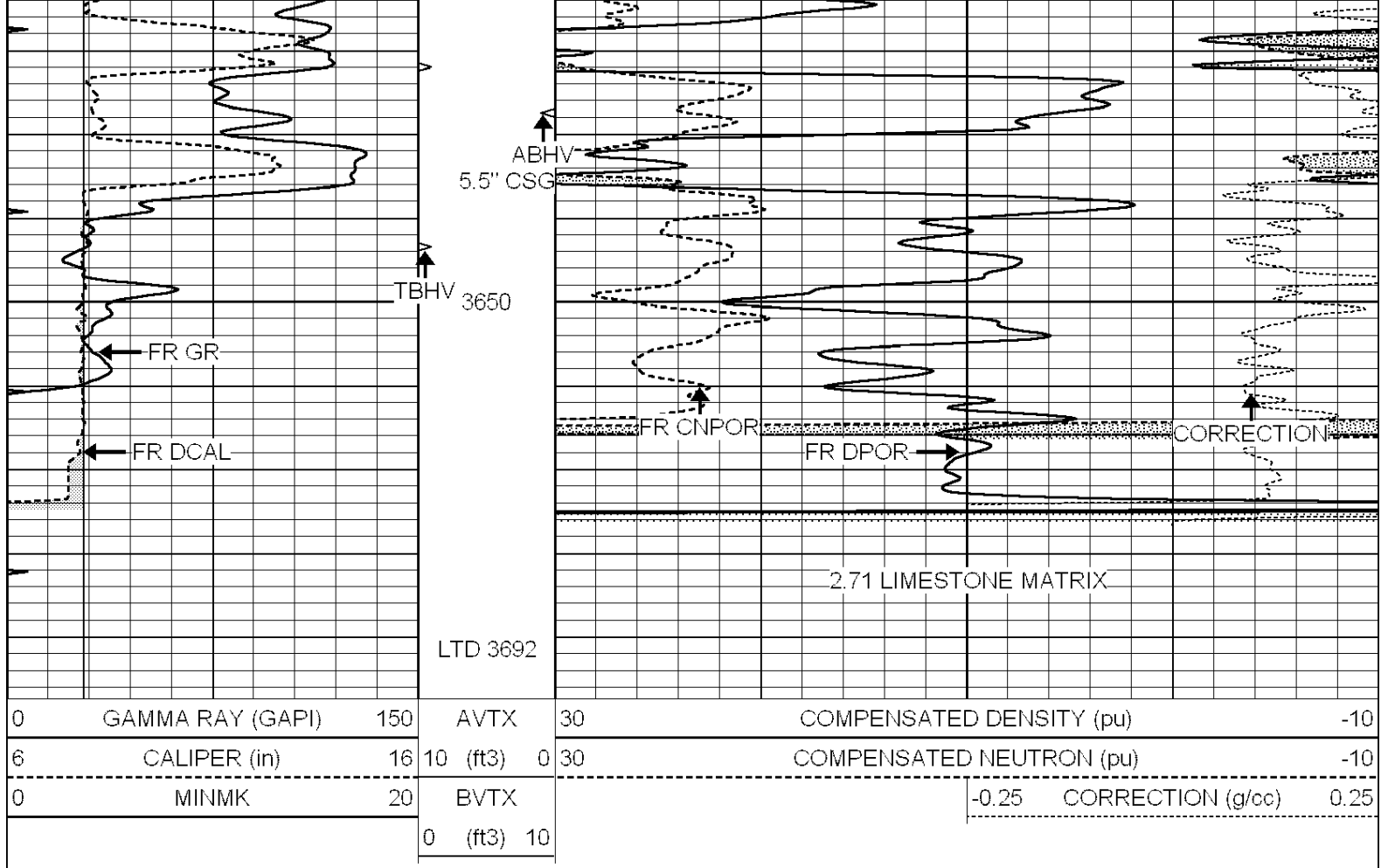
Depth in Feet scaled 1:240

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		







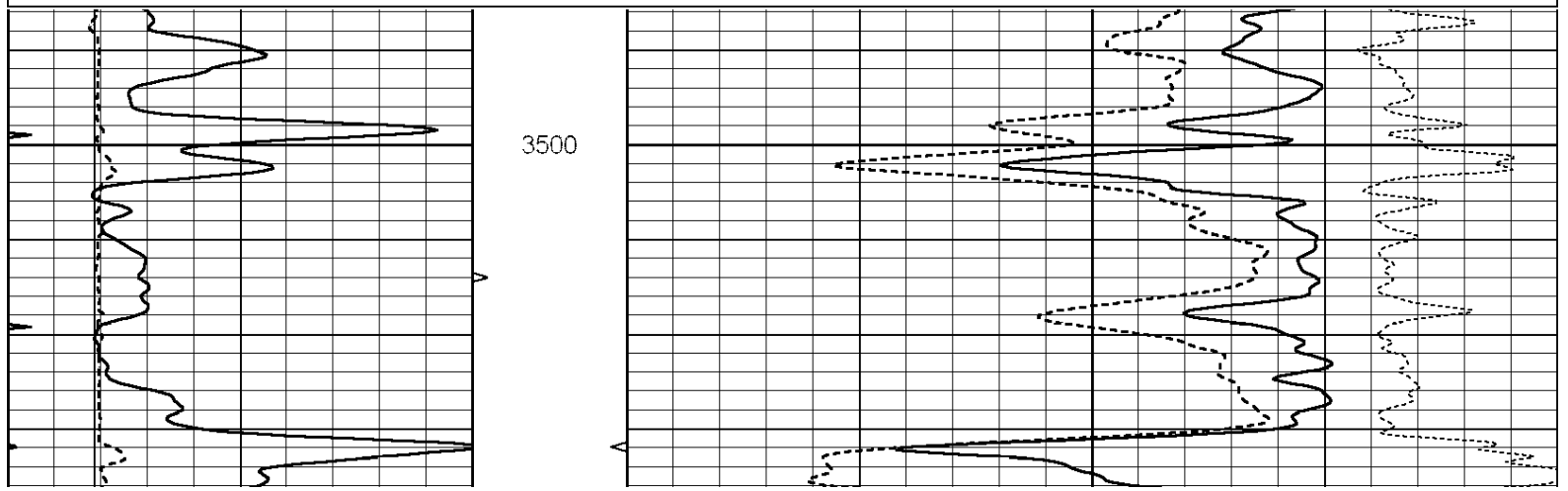


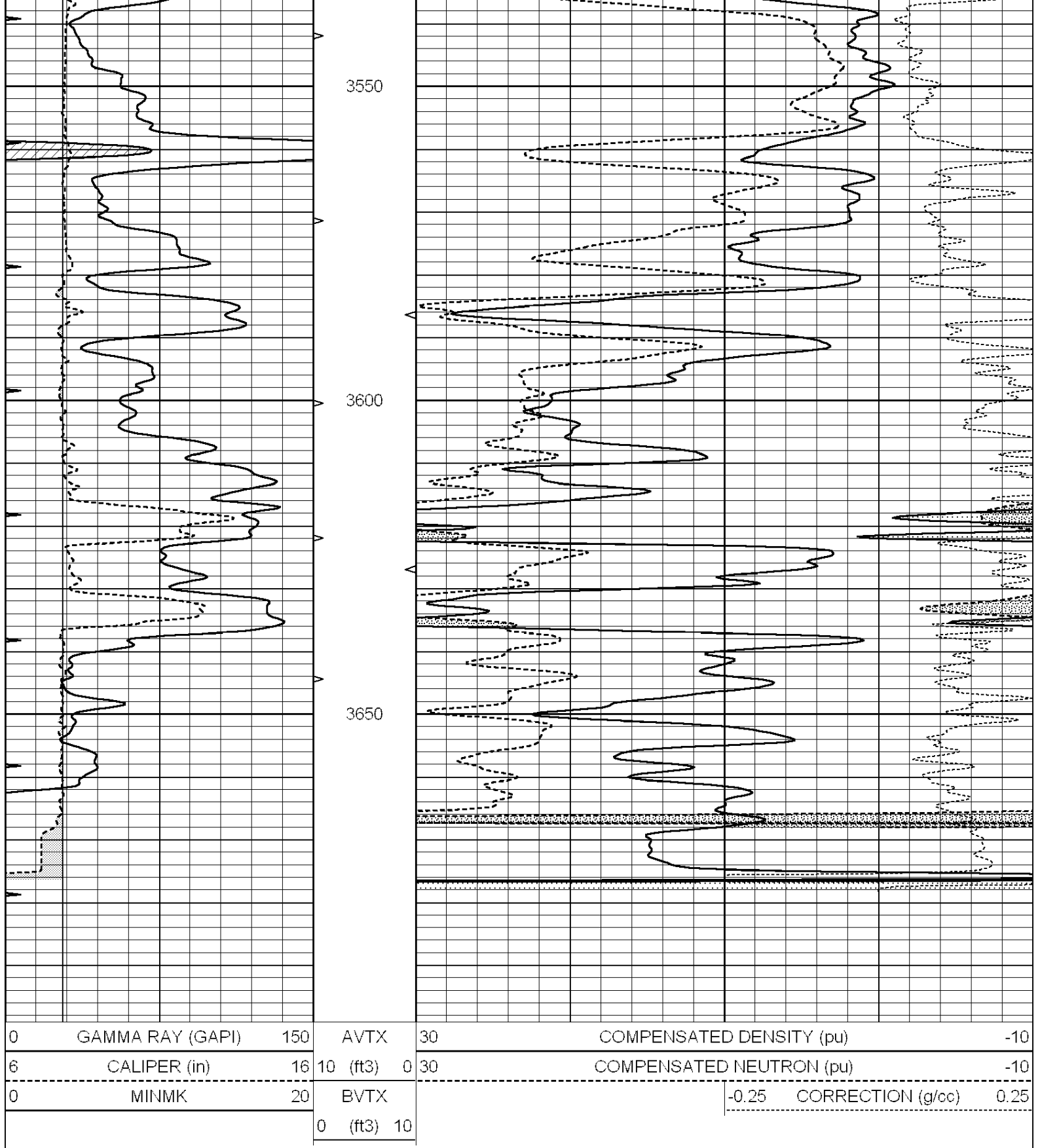
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REPEAT SECTION

Database File: 011795ddn.db
Dataset Pathname: pass2.1
Presentation Format: _den_neu
Dataset Creation: Sun Oct 13 04:41:28 2013 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

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		





Calibration Report

Database File: 011795ddn.db
Dataset Pathname: pass2.1
Dataset Creation: Sun Oct 13 04:41:28 2013 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 11:00:07 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	
	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:

Mon Mar 19 19:07:19 2012

Master Calibration								
Density			Far Detector		Near Detector			
Magnesium	1.710	g/cc	1015.91		497.51	cps		
Aluminum	2.600	g/cc	227.67		350.20	cps		
Spine Angle = 76.79			Density/Spine Ratio = 0.579					
Size			Reading					
Small Ring	8.00	in	3.21	V				
Large Ring	14.00	in	5.46	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