



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

COMPENSATED DENSITY/NEUTRON LOG

Company		AMERICAN ENERGIES CORPORATION	
Well	LAWRENCE #1-17		
Field	RITZ-CANTON		
County	MCPHERSON	State	KANSAS
Location:	API # : 15-113-21355-0000 330' FNL & 660' FEL N/2 - NE - NE		Other Services DIL
Permanent Datum	SEC 17	TWP 20S	RGE 1W
Log Measured From	GROUND LEVEL		Elevation 1548
Drilling Measured From	KELLY BUSHING 9' A.G.L.		Elevation K.B. 1557 D.F. 1555 G.L. 1548
Date	11/14/12		
Run Number	ONE		
Depth Driller	3500		
Depth Logger	3502		
Bottom Logged Interval	3578		
Top Log Interval	2200		
Casing Driller	8 5/8" @ 218		
Casing Logger	218		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.5/61		CHLORIDES 1,200 PPM
pH / Fluid Loss	9.0/9.4		
Source of Sample	FLOWLINE		
Rin @ Meas. Temp	2.0 @ 71F		
Rmf @ Meas. Temp	1.5 @ 71F		
Rmc @ Meas. Temp	2.4 @ 71F		
Source of Rmf / Rmc	MEASURED		
Rin @ BHT	1.2 @ 111F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	7:00 P.M.		
Maximum Recorded Temperature	111F		
Equipment Number	680		
Location	HAYS, KS.		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	DOUG DAVIS		

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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.

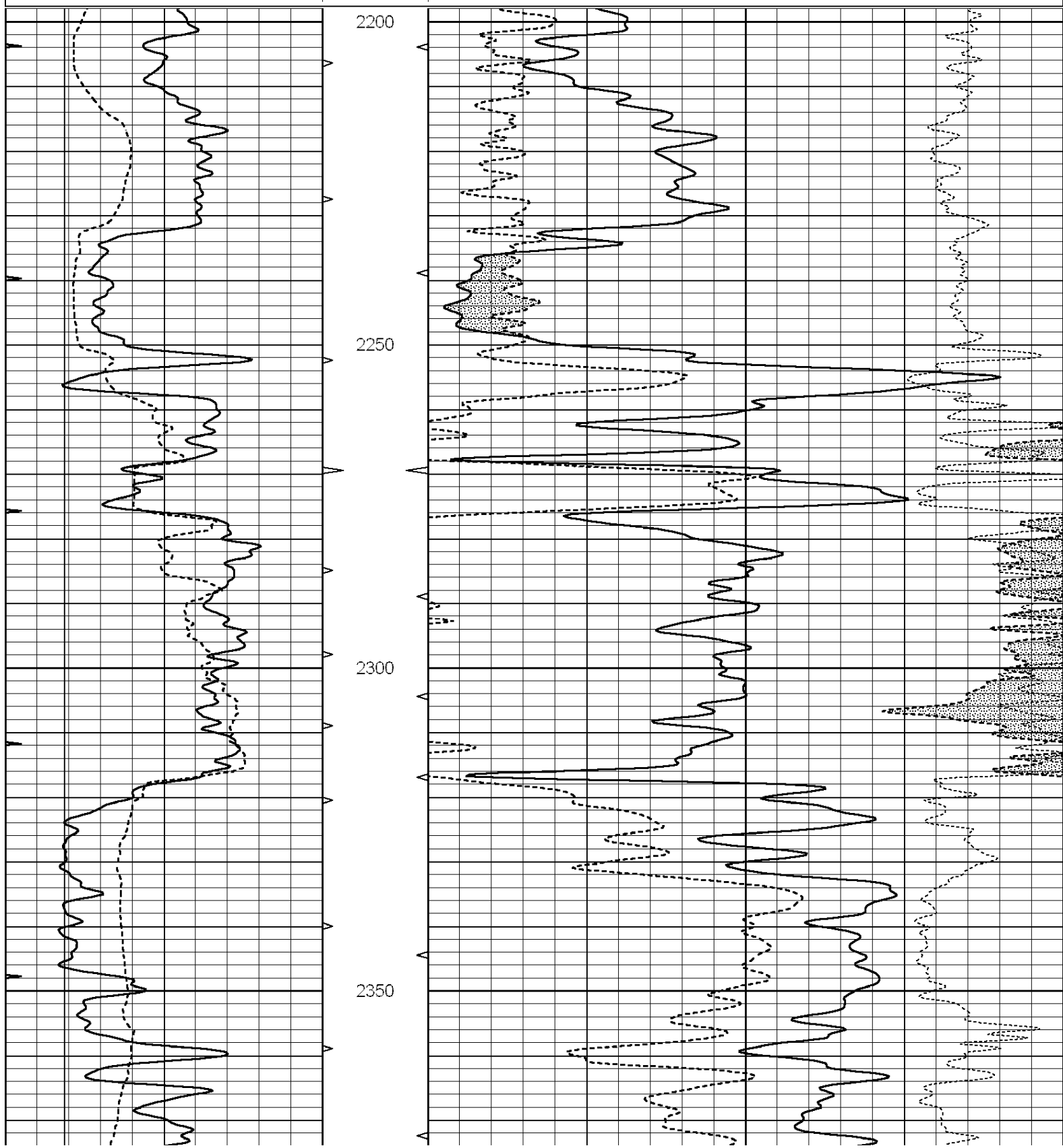
Comments

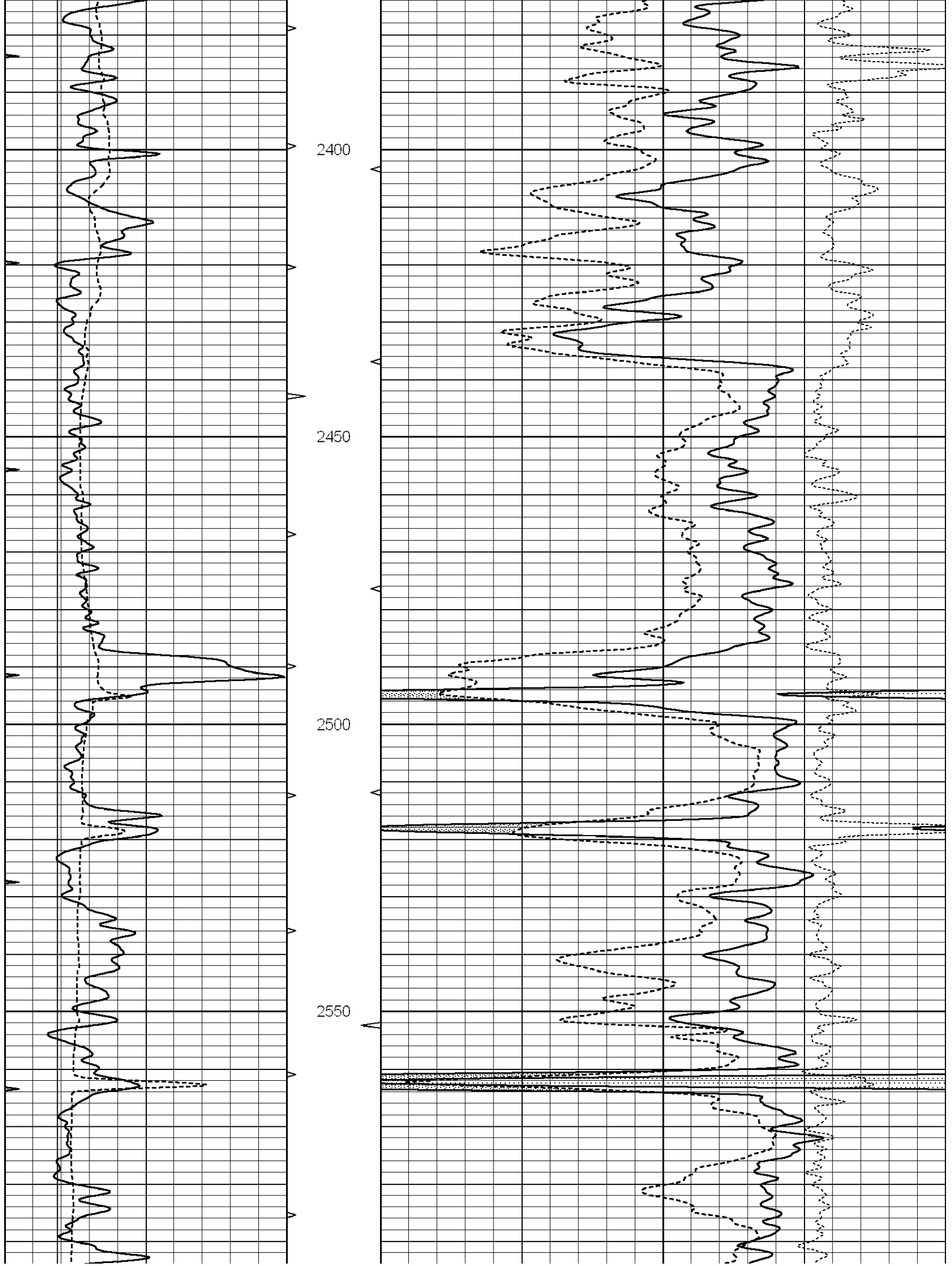
THANK YOU FOR USING SUPERIOR WELL SERVICE (785) 628-6395
DIRECTIONS

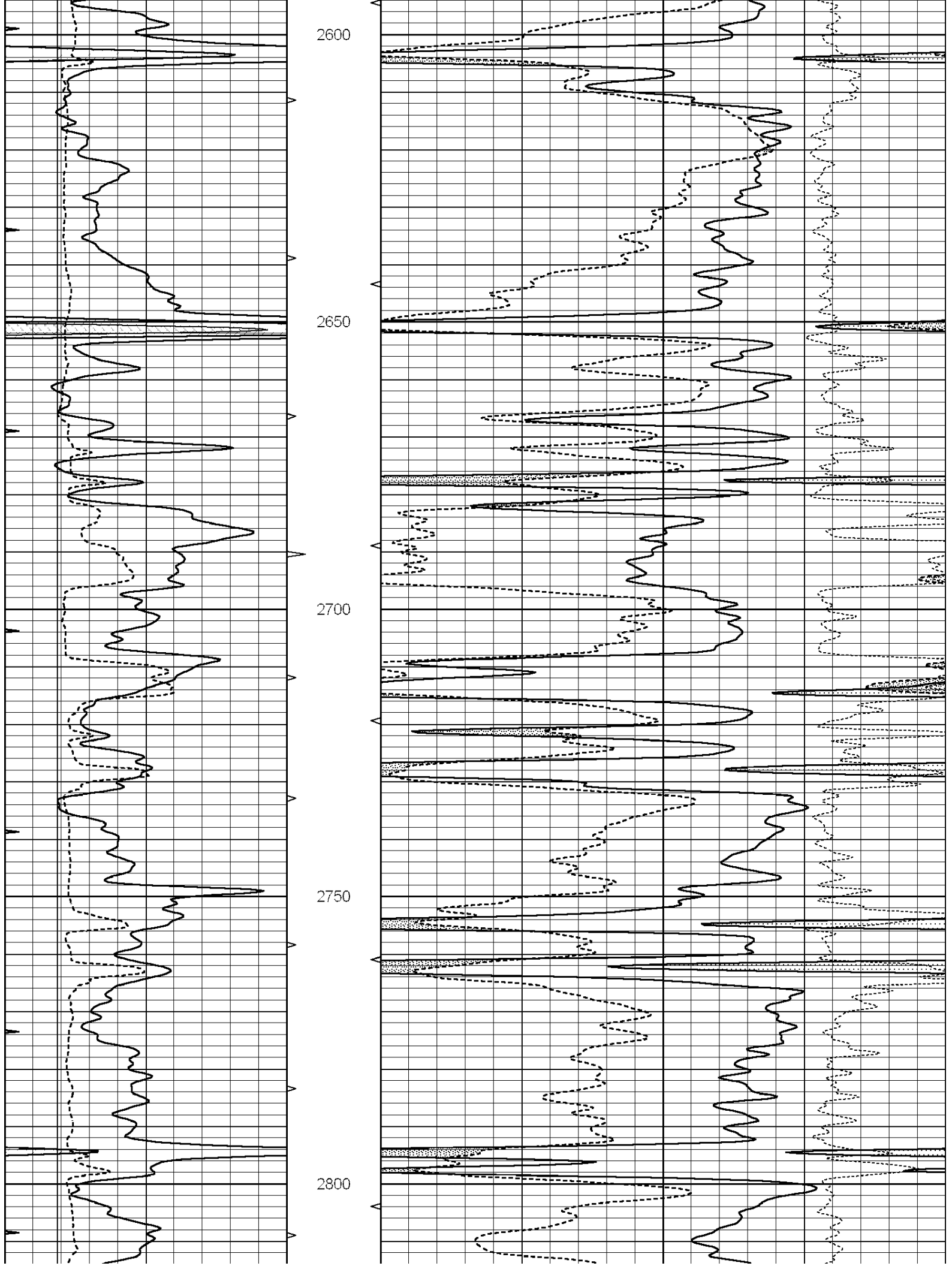
McPHERSON, KS. - E. ON HWY 56 TO CANTON - 4 S. ON 27TH RD. TO EISENHOWER RD.
1 1/8 MILES W. - S. INTO

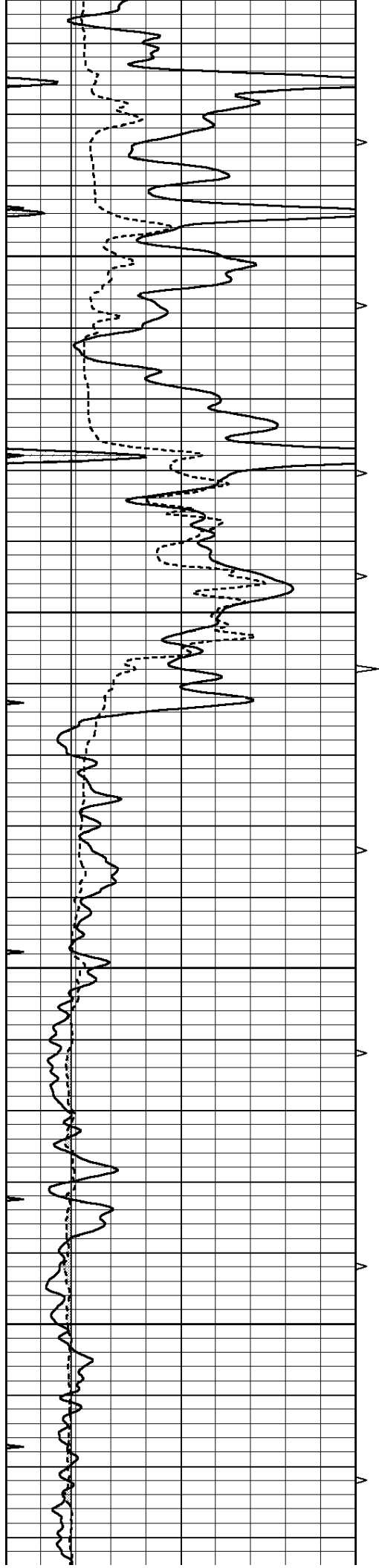
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 Dataset Pathname: pass3.1
 Presentation Format: _den_neu
 Dataset Creation: Wed Nov 14 19:50:08 2012 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240

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		







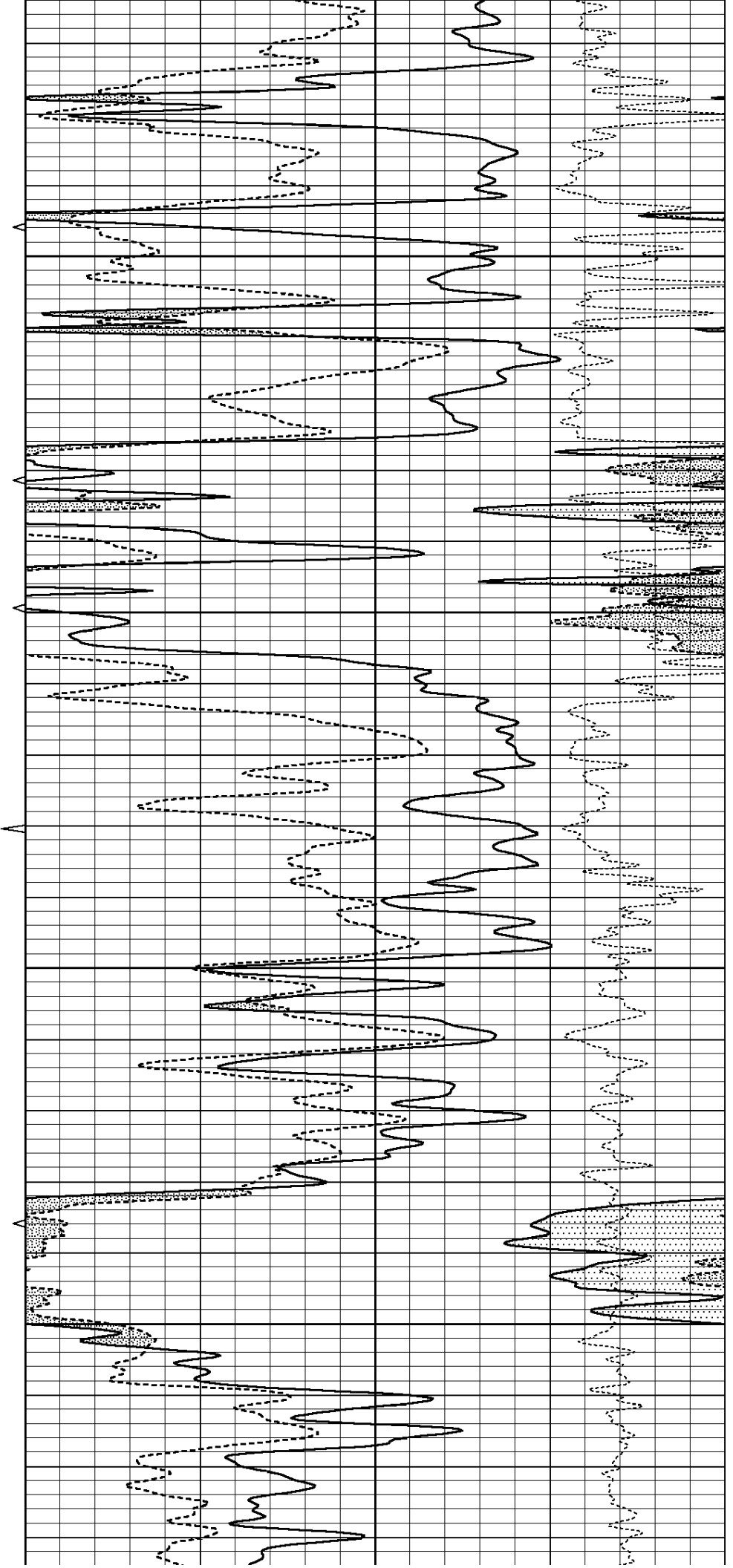


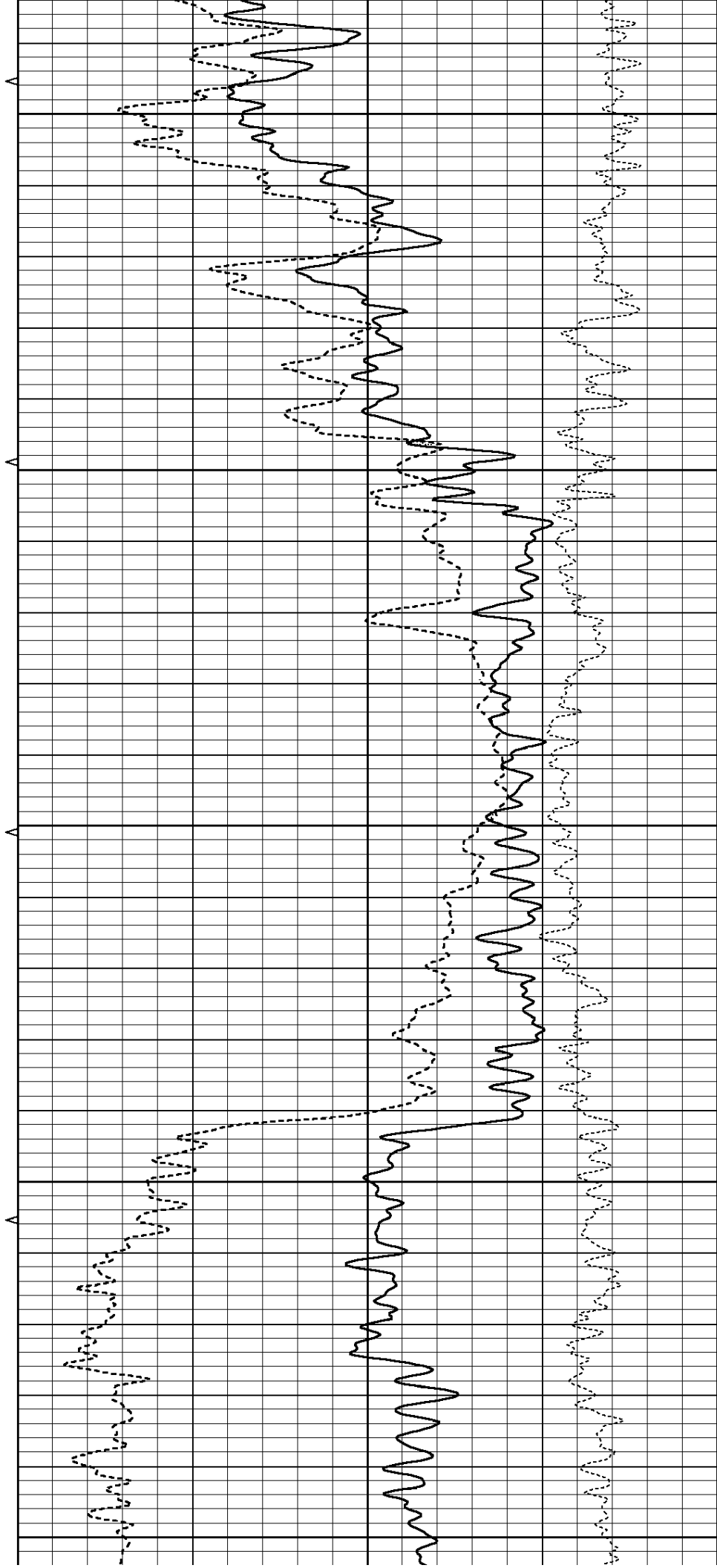
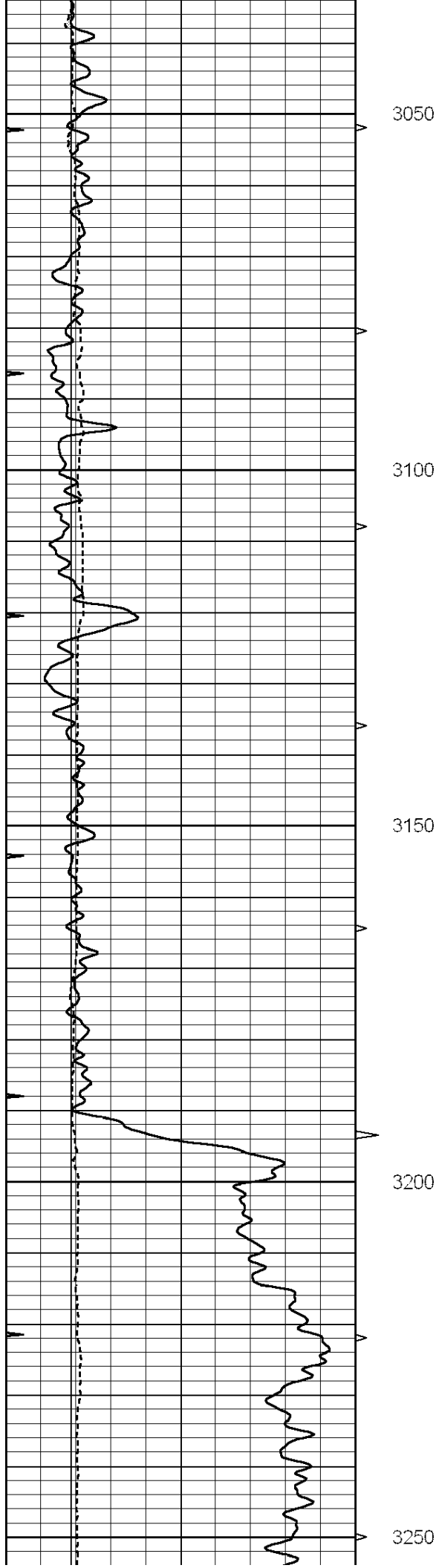
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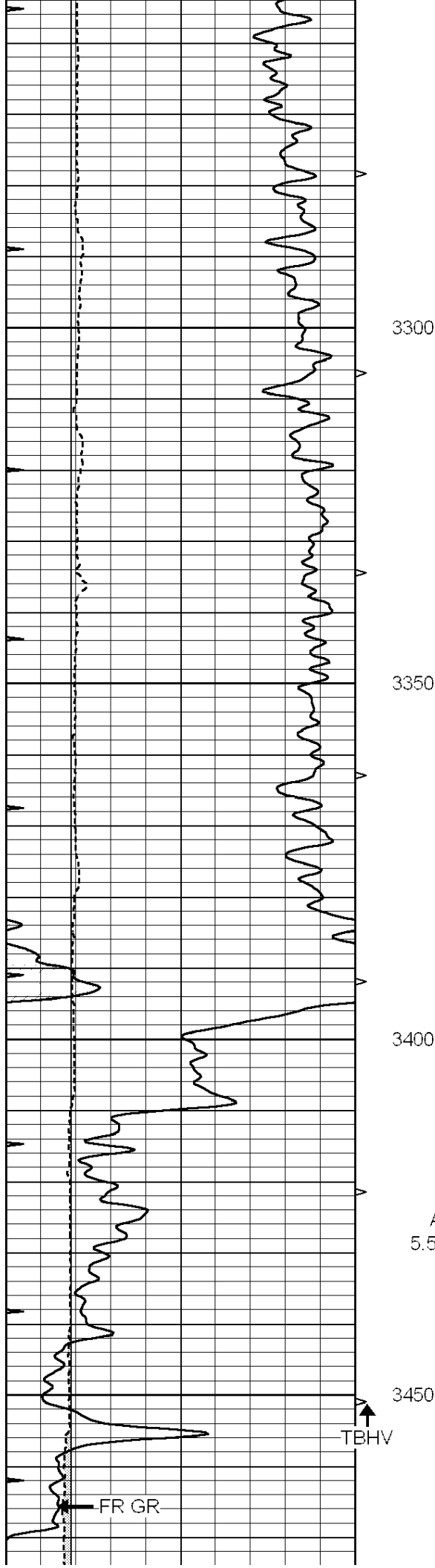
2900

2950

3000







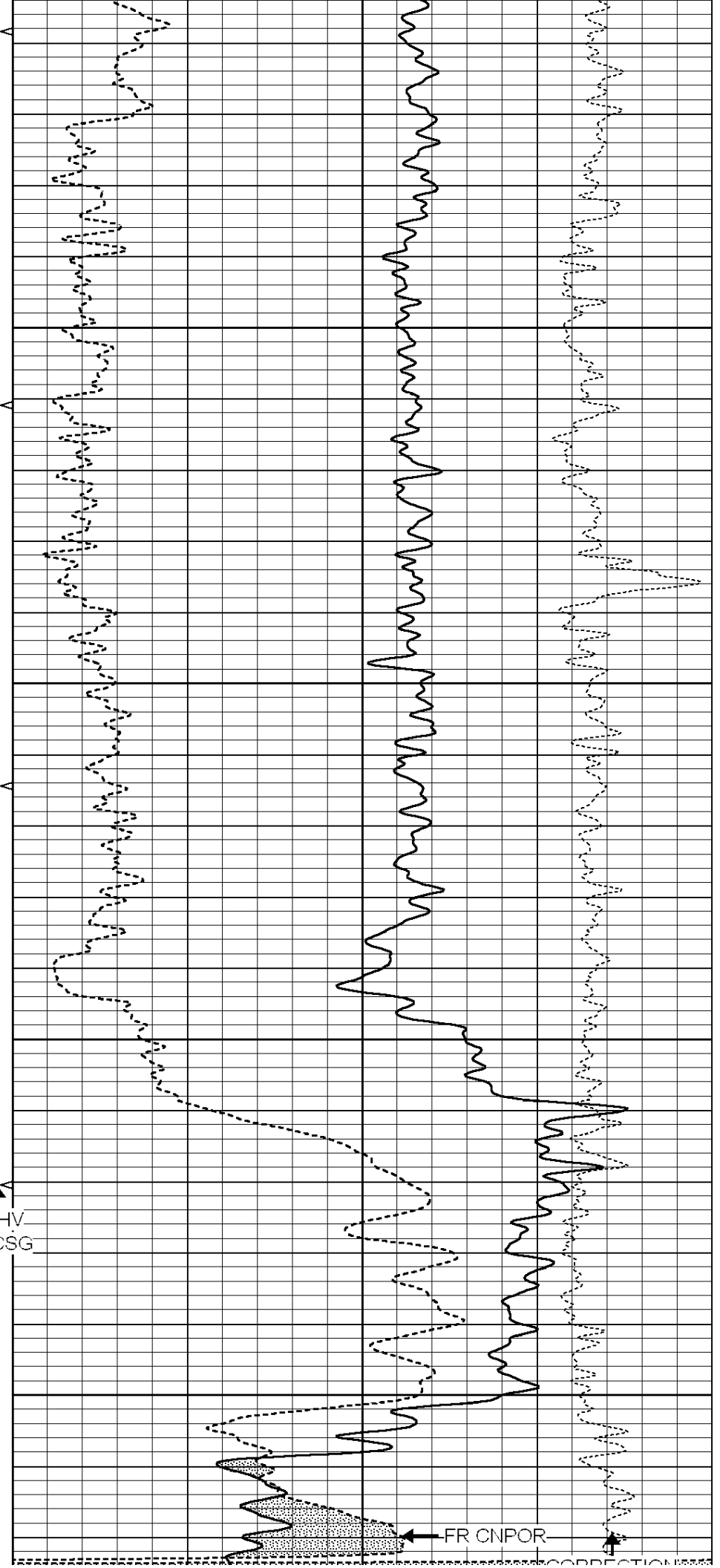
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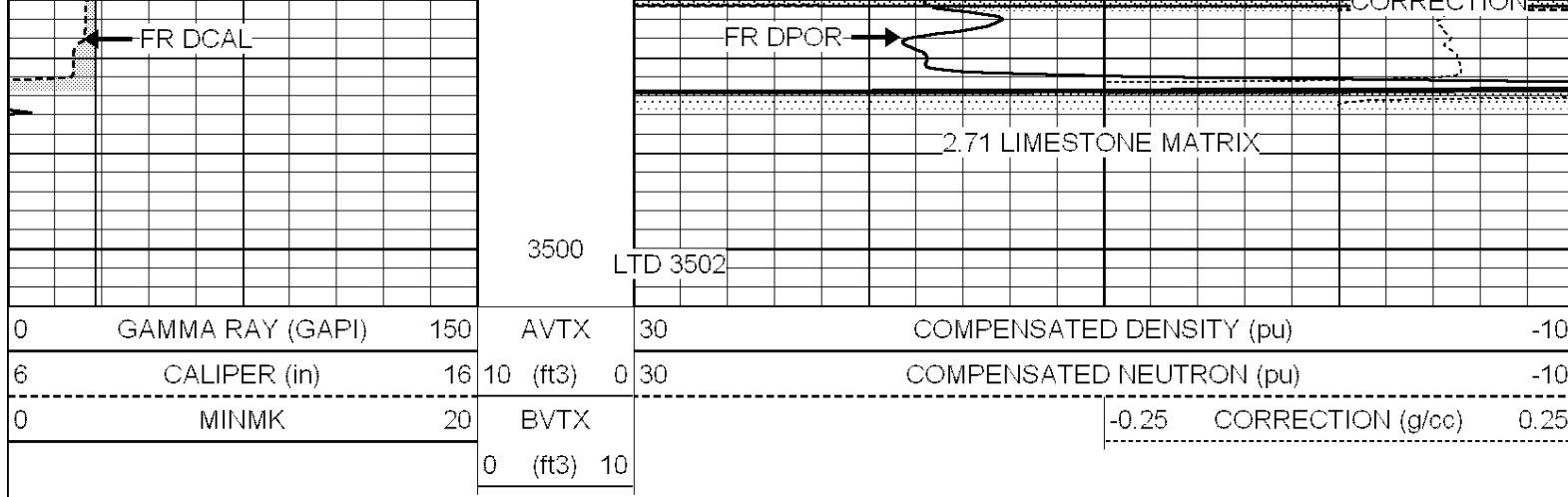
3350

3400

3450

ABHV
5.5" CSG



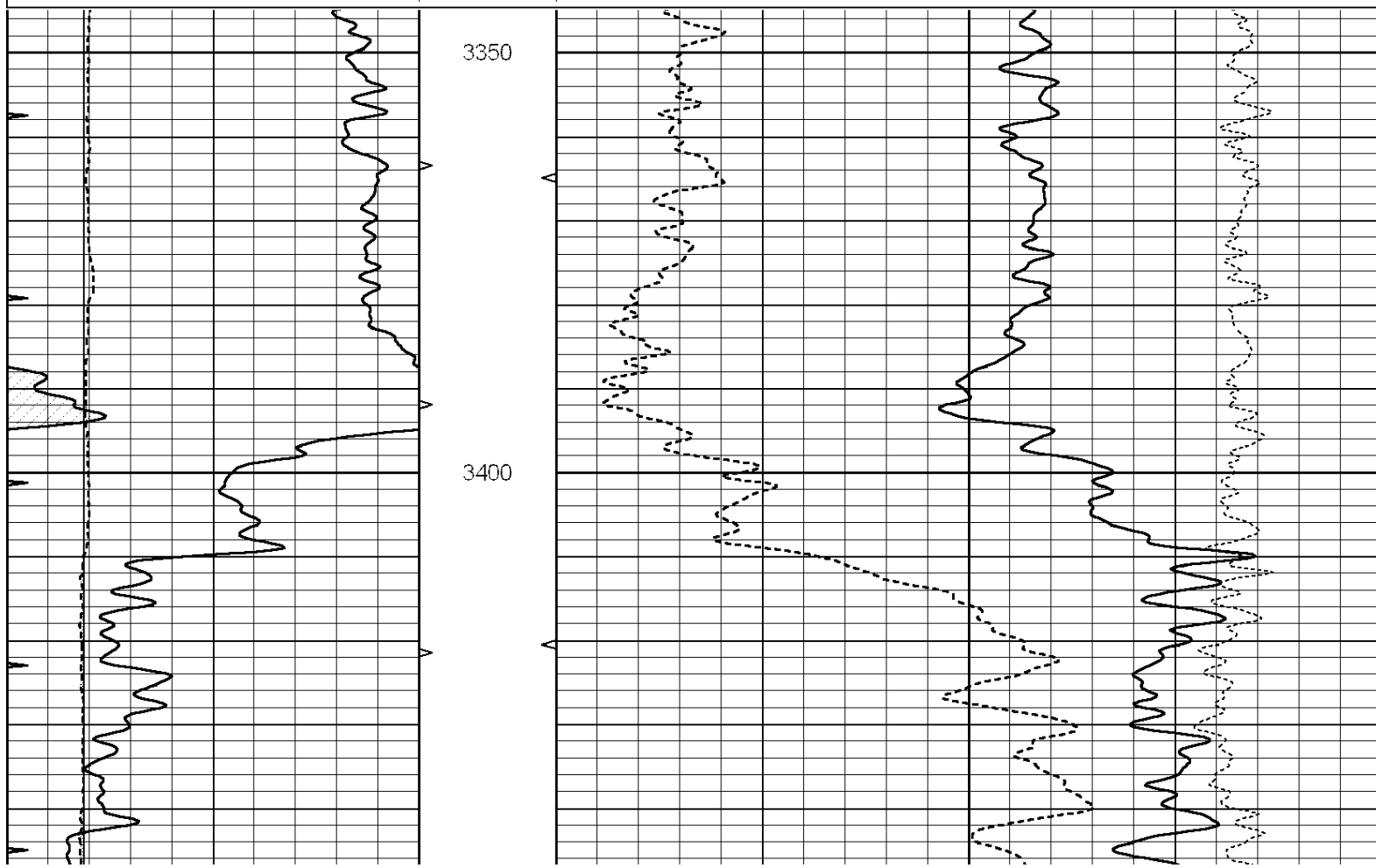


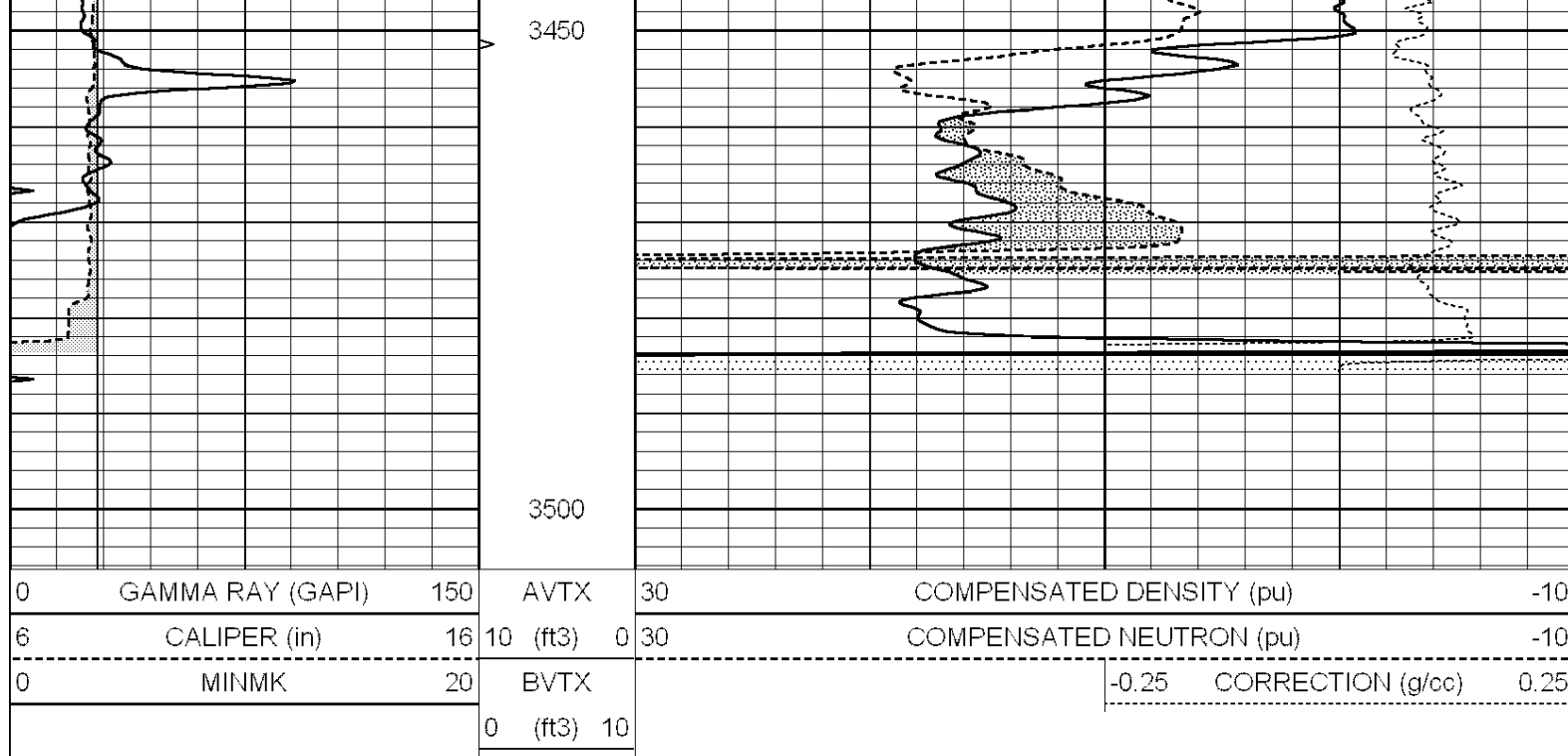
REPEAT SECTION

Database File: 010128ddn.db
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 Presentation Format: _den_neu
 Dataset Creation: Wed Nov 14 19:18:14 2012 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	(ft3)	10				





Calibration Report

Database File: 010128ddn.db
Dataset Pathname: pass2.2
Dataset Creation: Wed Nov 14 19:18:14 2012 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	
	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
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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
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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