



**SUPERIOR
Hays,
Kansas**

COMPENSATED DENSITY/NEUTRON LOG

Company NOBLE PETROLEUM, INC.
Well ANDES #2
Field MADDIX
County COWLEY
State KANSAS

Company NOBLE PETROLEUM, INC.,
Well ANDES #2
Field MADDIX
County COWLEY State KANSAS

Location: API # : 15-035-24329-0000

2850'FNL & 1250'FEL
SW-SW-SE-NE

SEC 10 TWP 33S RGE 5E

Permanent Datum GROUND LEVEL Elevation 1257
Log Measured From KELLY BUSHING 9' A.G.L.
Drilling Measured From KELLY BUSHING

DIL

Elevation
K.B. 1266
D.F. 1264
G.L. 1257

Date 04/27/2009

Run Number	CNE	
Depth Driller	3205	
Depth Logger	3204	
Bottom Logged Interval	3180	
Top Log Interval	1600	
Casing Driller	8 5/8 @ 200'	
Casing Logger	208'	
Bit Size	7 7/8	
Type Fluid in Hole	CHEMICAL MUD	
Density / Viscosity	8.9 / 35	CHLORIDES 500
pH / Fluid Loss	8.0 / 11.8	
Source of Sample	FLOWLINE	
Rm @ Meas. Temp	3.50 @ 78F	
Rmf @ Meas. Temp	2.63 @ 78F	
Rmc @ Meas. Temp	4.20 @ 78F	
Source of Rmf / Rmc	CAL/CAL	
Rm @ BHT	2.50 @ 109F	
Time Circulation Stopped	2 HOURS	
Time Logger on Bottom	6:40 AM	
Maximum Recorded Temperature	109F	
Equipment Number	680	
Location	HAYS, KS	
Recorded By	JEFF GRONEWEG	JOE CRATHORNE
Witnessed By	JERRY HONAS	JAY ABLAH

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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.

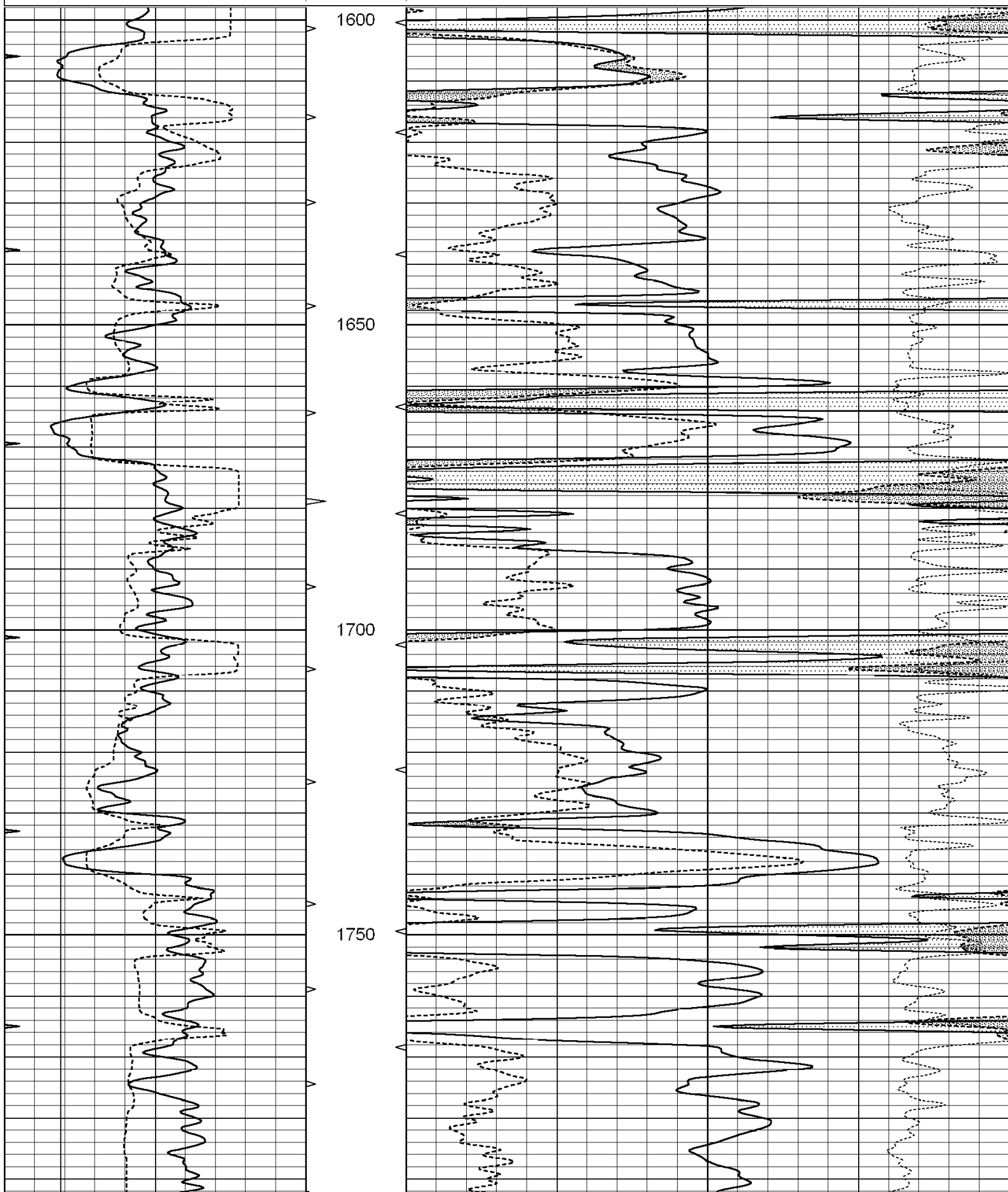
Comments

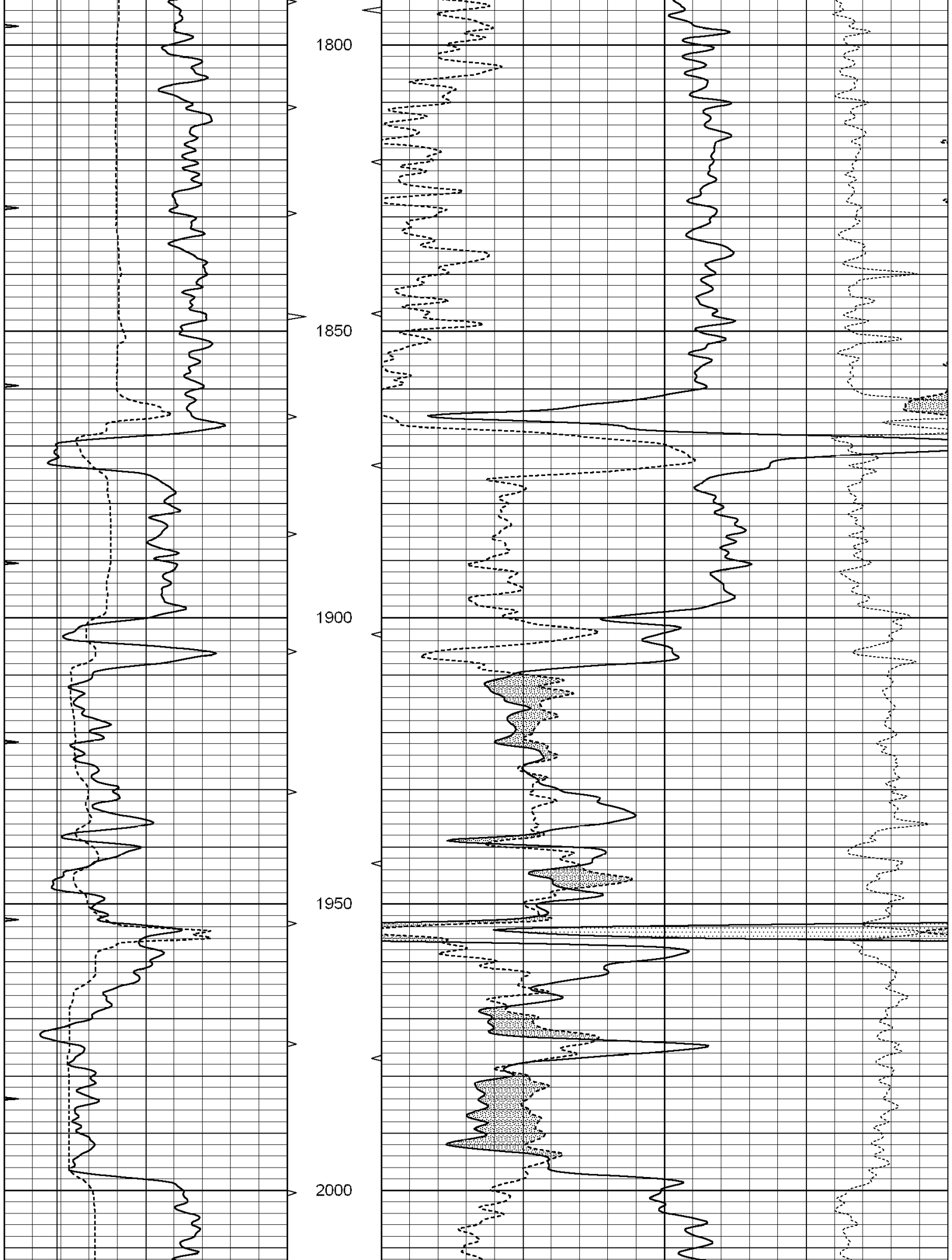
THANK YOU FOR USING SUPERIOR WELL SERVICES
HAYS, KS. 785-628-6395

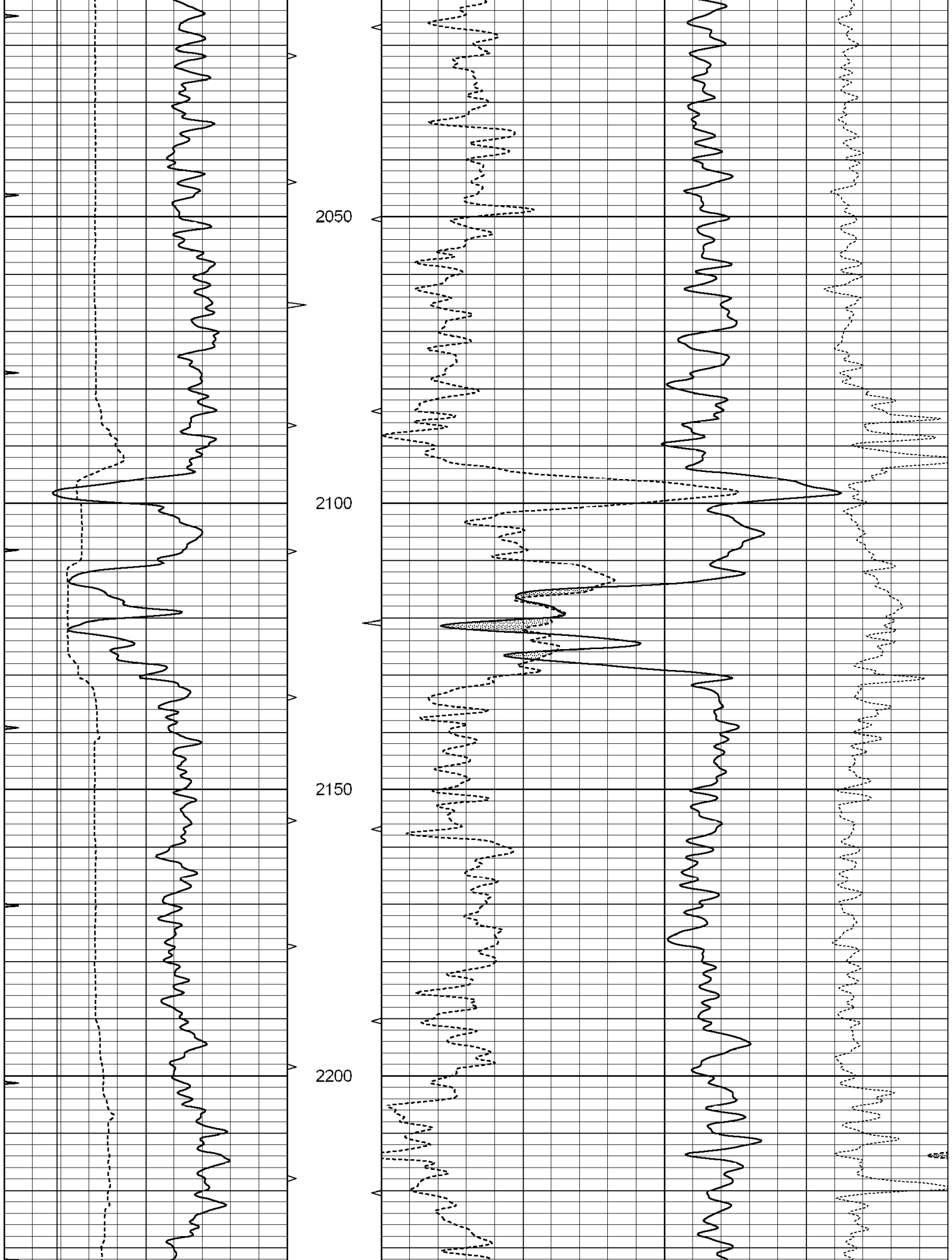
DIRECTIONS: WINFIELD, KS. (JUNCTION OF HWYS 160 & 77) 7E. ON HWY 160 TO COWLEY
COUNTY RD. #1, 3S. TO 192ND, 1E TO 161ST, 1/2S TO TANK BATTERY, WEST INTO

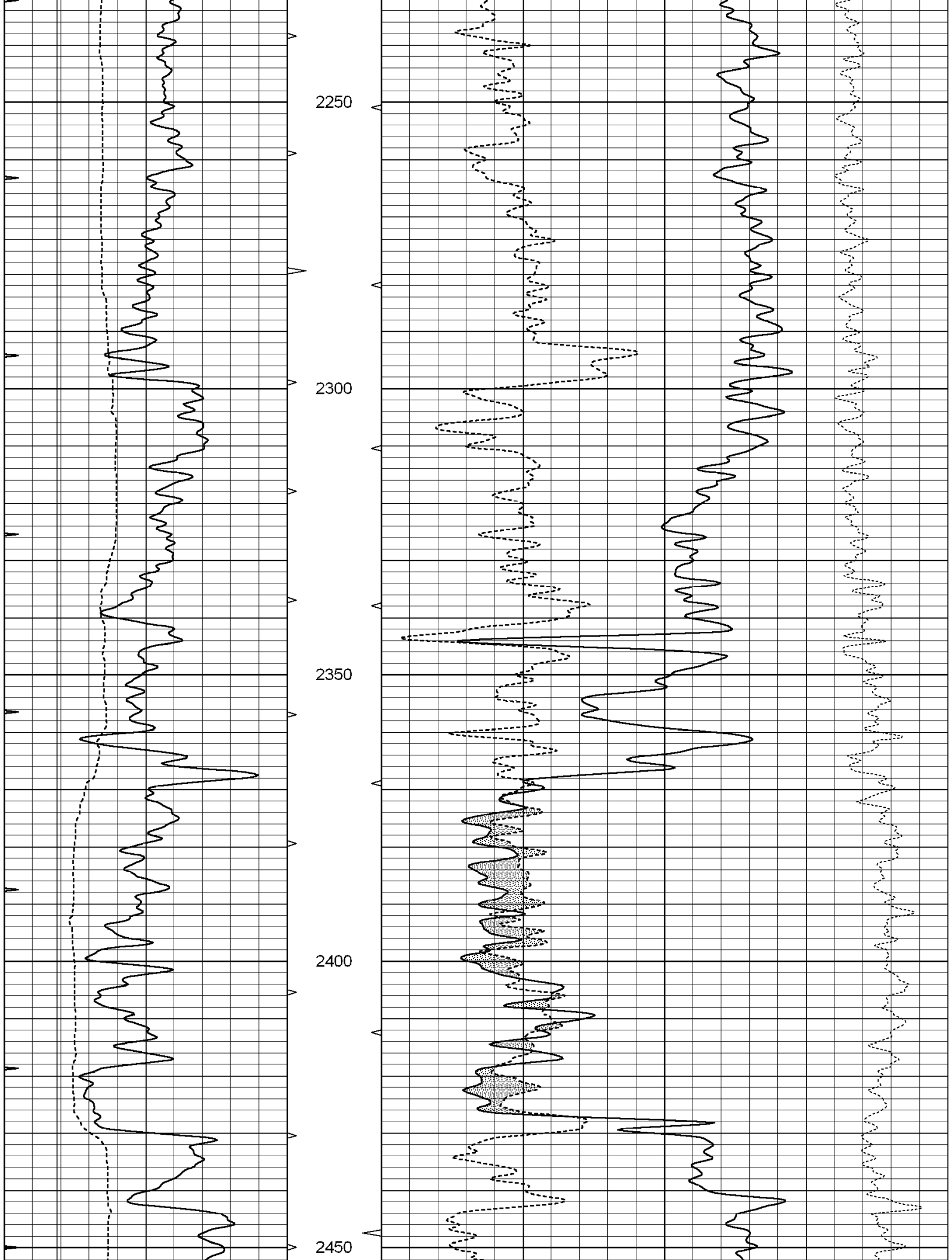
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Dataset Creation: Mon Apr 27 07:56:06 2009

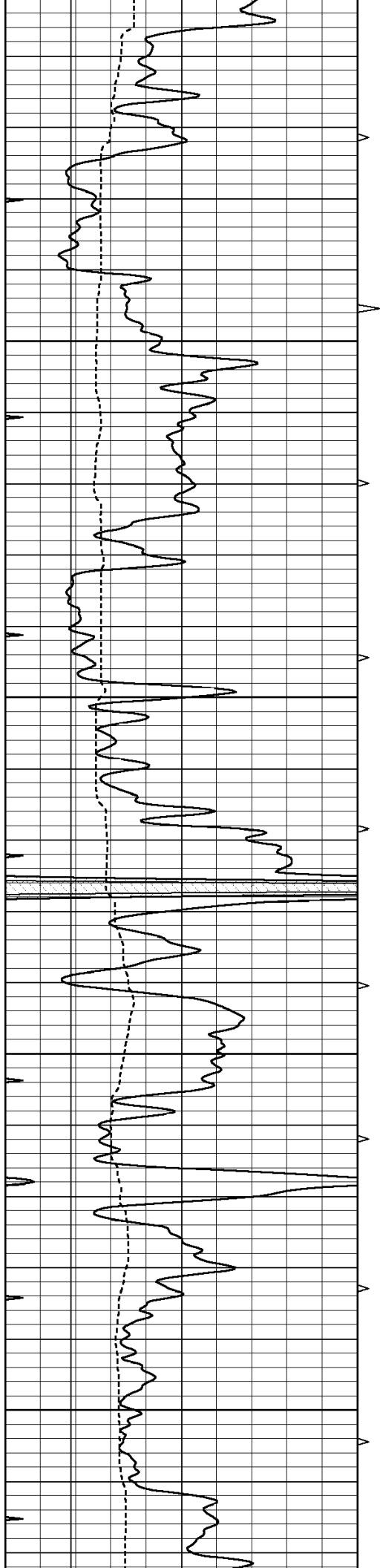
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3) 0	30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3) 10			









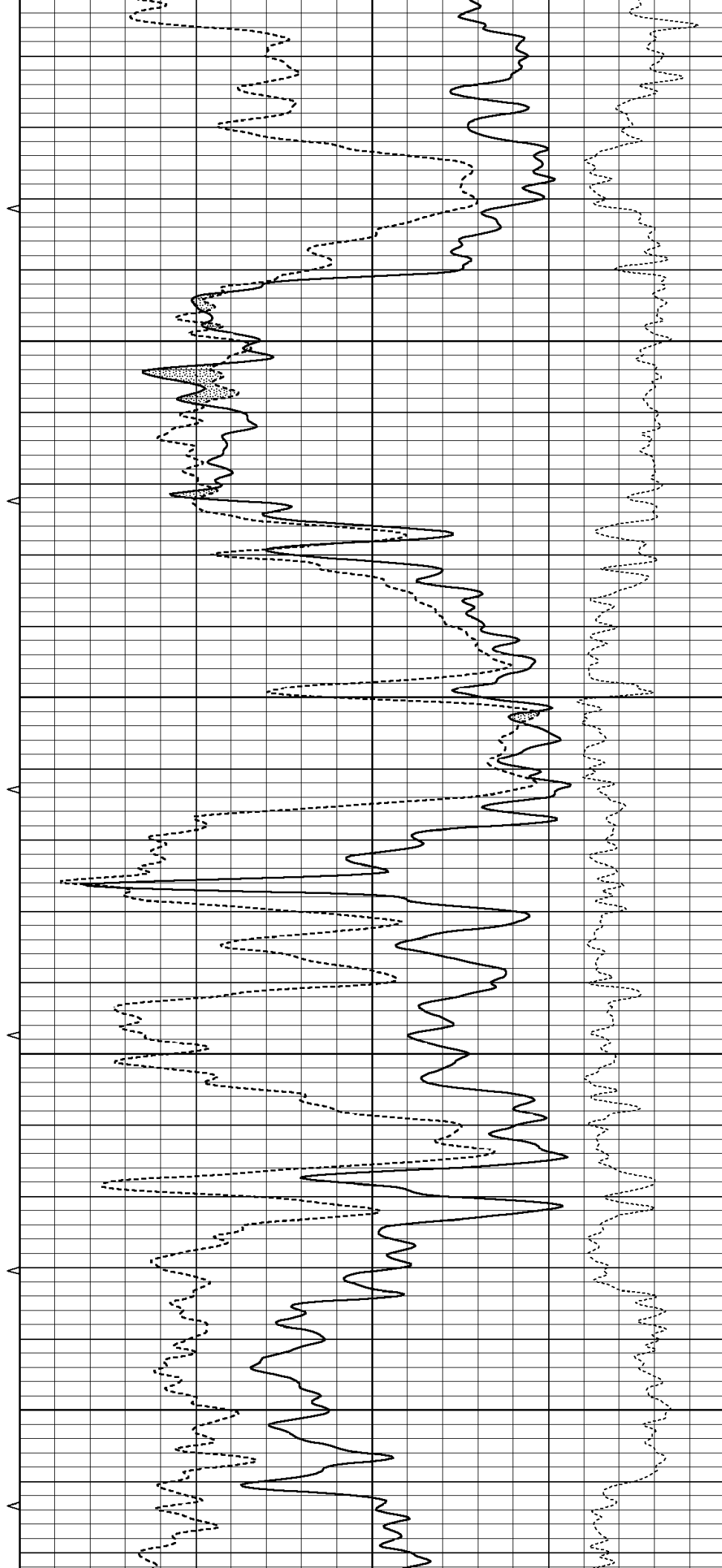


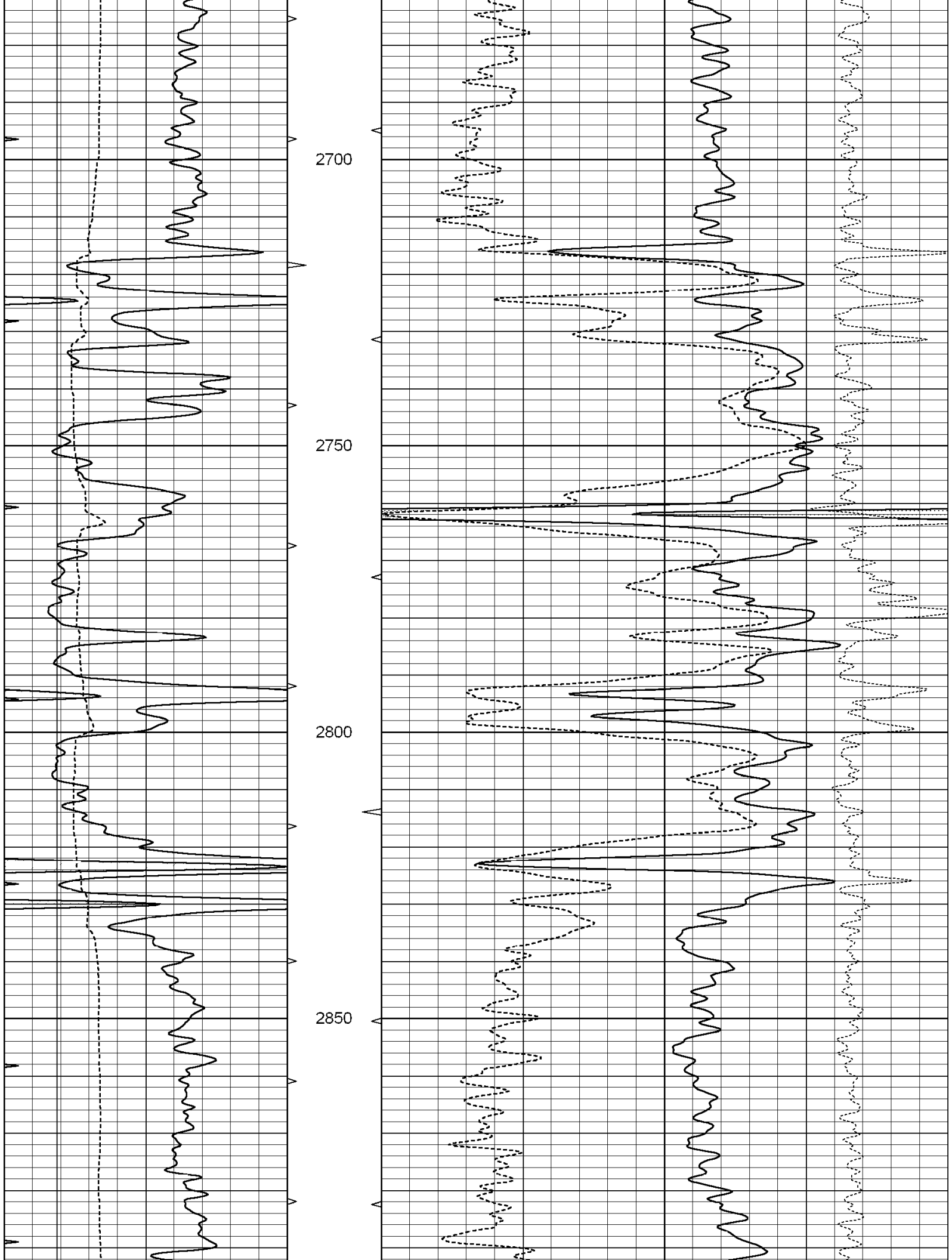
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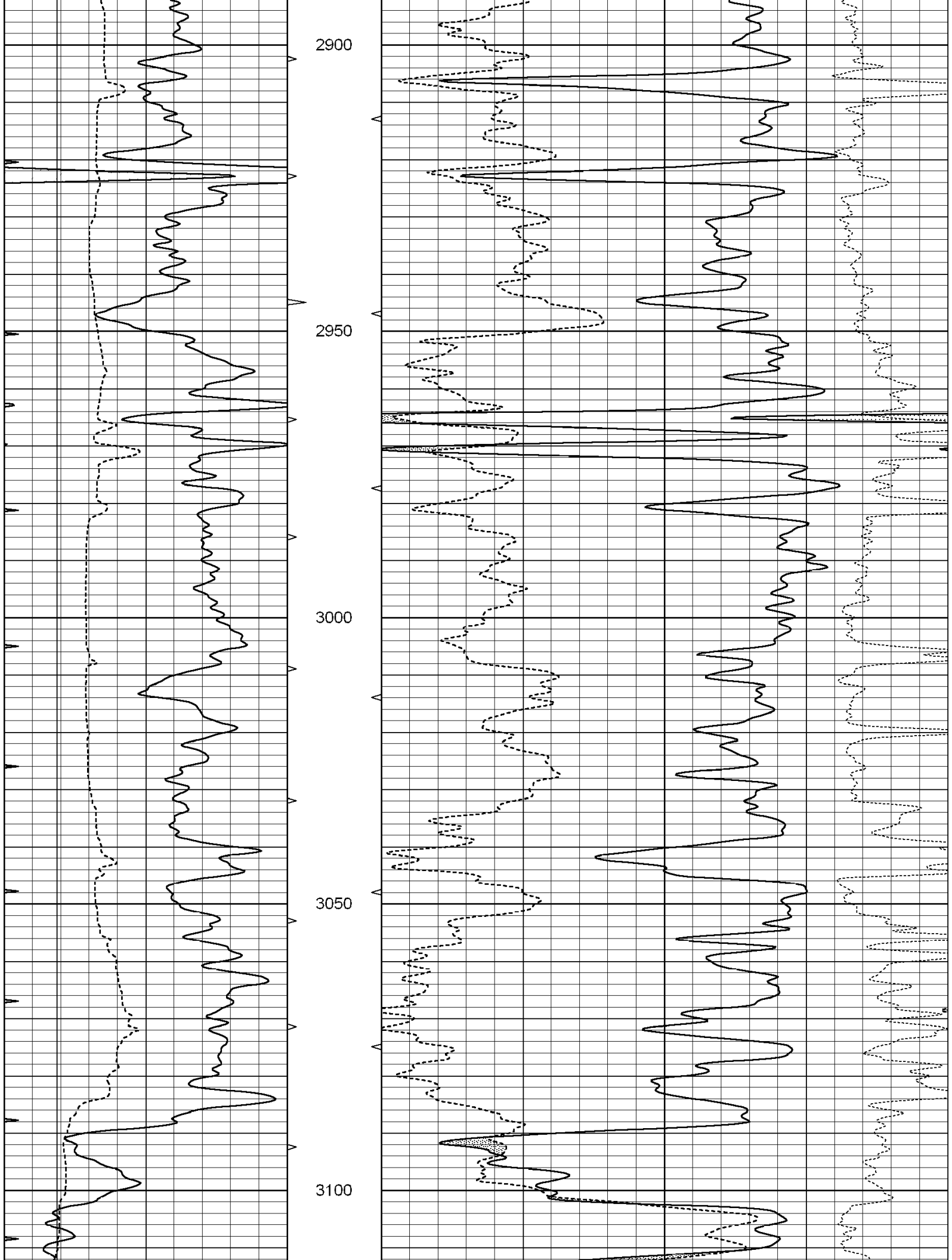
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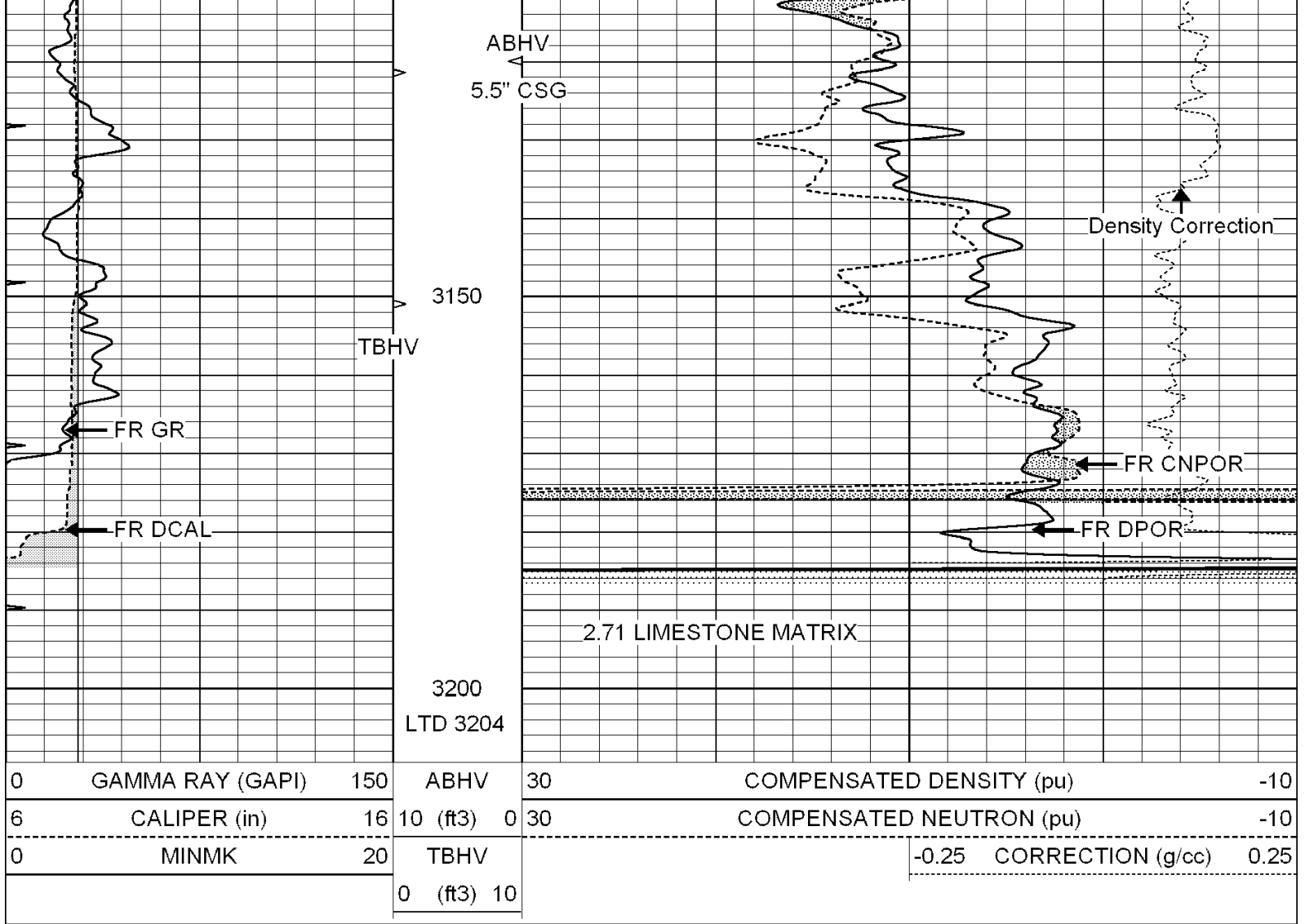
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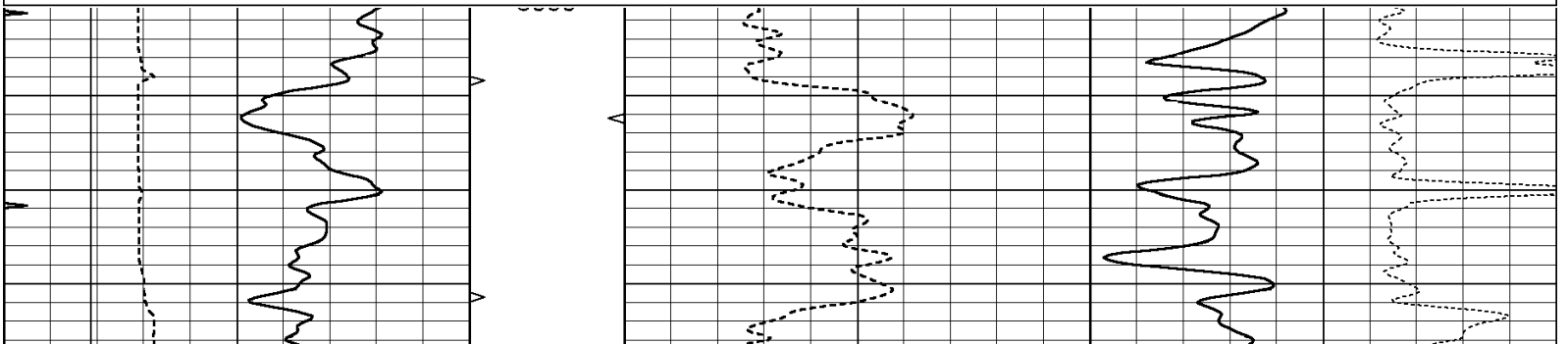


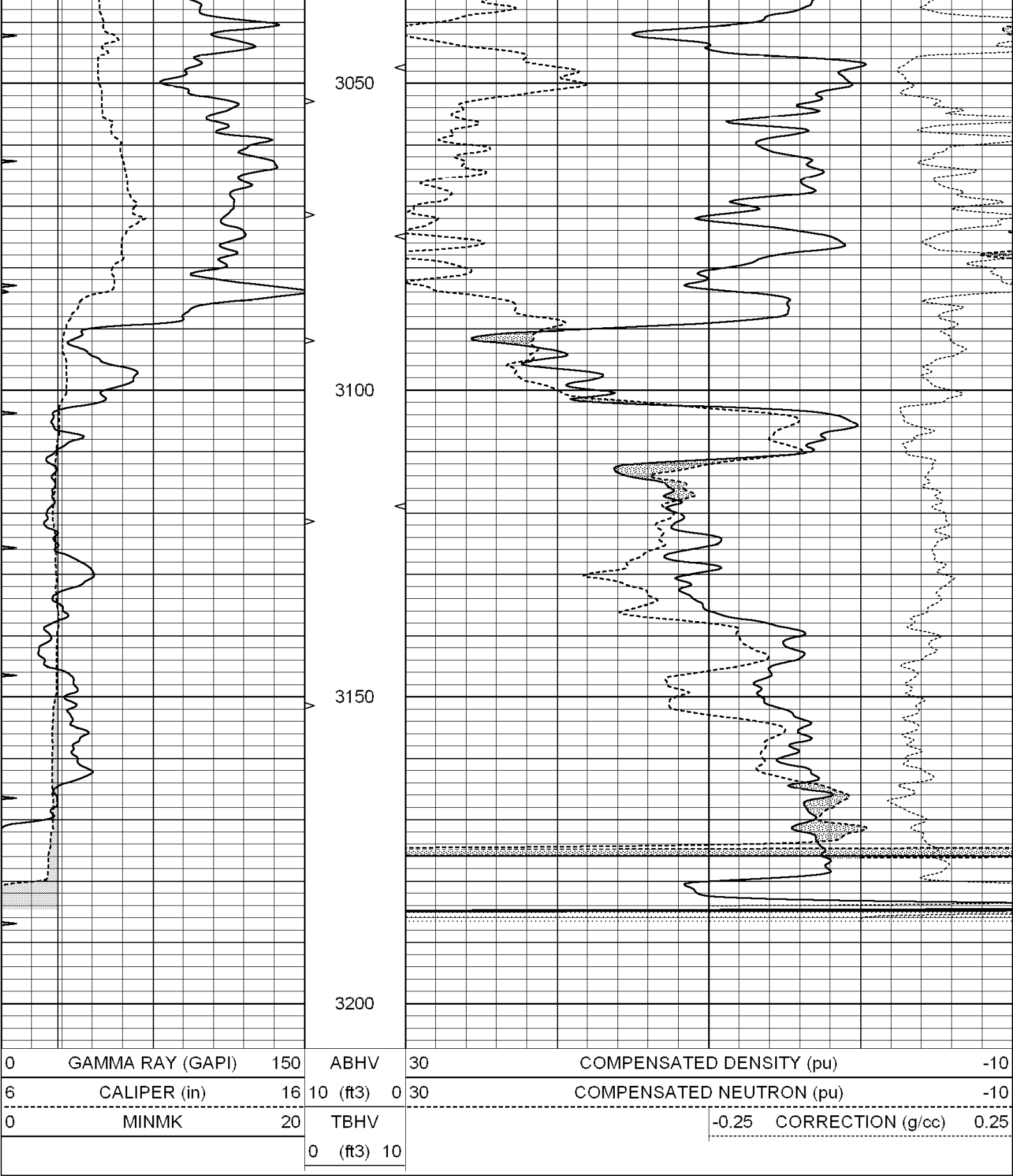
SUPERIOR
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REPEAT SECTION

Database File: 003713ddn.db
 Dataset Pathname: pass2.5
 Presentation Format: _den_neu
 Dataset Creation: Mon Apr 27 08:06:31 2009 by Calc Open-Cased 070814
 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: 003713ddn.db
Dataset Pathname: pass3.4
Dataset Creation: Mon Apr 27 07:50:03 2009 by Calc Open-Cased 070814

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		
		-6.500	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:	GEAR3-GEARHART
Source / Verifier:	143 / 143
Master Calibration Performed:	Fri Mar 06 10:44:04 2009

Master Calibration

Density			Far Detector		Near Detector	
Magnesium	1.710	g/cc	1127.25	444.45	cps	
Aluminum	2.600	g/cc	260.89	307.54	cps	
Spine Angle = 75.88			Density/Spine Ratio = 0.590			
Size			Reading			
Small Ring	8.00	in	4.25	V		
Large Ring	14.00	in	6.21	V		

Compensated Neutron Calibration Report

Serial Number:	6I
Tool Model:	G

CALIBRATION

Detector	Readings	Target	Normalization
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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:	GR6	
Tool Model:	OPEN	
Performed:	Mon Apr 06 01:29:18 2009	
Calibrator Value:	150.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	276.0	cps
Sensitivity:	0.6035	GAPI/cps