SUPERIOR WELL SERVICES

SUPERIOR
Hays, Kansas

COMPENSATED DENSITY / NEUTRON LOG

Company HESS OIL COMPANY
Well PFISTER #1-6
Field FREY
County STAFFORD State KANSAS

Location: API # : 15-185-23653
990' FSL & 470' FEL
SEC 6 TWP 21S RGE 14W

Other Services
DIL
SONIC/MEL

Permanent Datum GROUND LEVEL Elevation 1922
Log Measured From KELLY BUSHING 5' A.G.L.
Drilling Measured From KELLY BUSHING

Elevation
K.B. 1927
D.F.
G.L. 1922

Company HESS OIL COMPANY
Well PFISTER #1-6
Field FREY
County STAFFORD
State KANSAS

Date	12-14-10		
Run Number	ONE		
Depth Driller	3800		
Depth Logger	3800		
Bottom Logged Interval	3776		
Top Log Interval	2300		
Casing Driller	888		
Casing Logger	888		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.2 / 57		
pH / Fluid Loss	10.5 / 8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.10 @ 70F		
Rmf @ Meas. Temp	0.83 @ 70F		
Rmc @ Meas. Temp	1.32 @ 70F		
Source of Rmf / Rmc	MEASURED		
Rm @ BHT	.680 @ 113F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	1:00 A.M.		
Maximum Recorded Temperature	113F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	RUPP		
Witnessed By	DEREK PATTERSON		

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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

SUPERIOR WELL SERVICES
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: LARNED & #56, E TO RADIUM BLACKTOP, 7S TO RD. #200, 1/8W, N INTO.

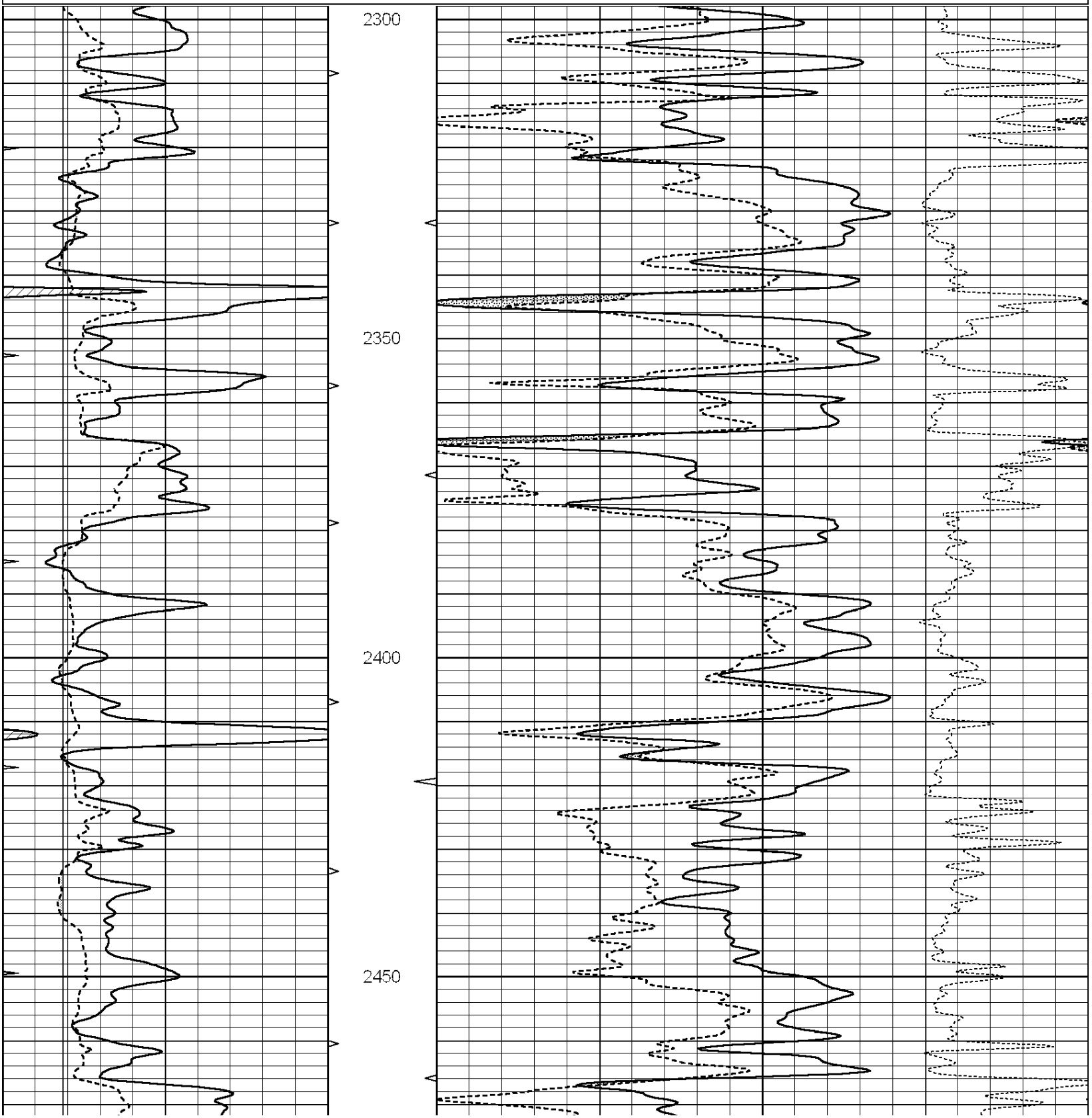
MAIN SECTION

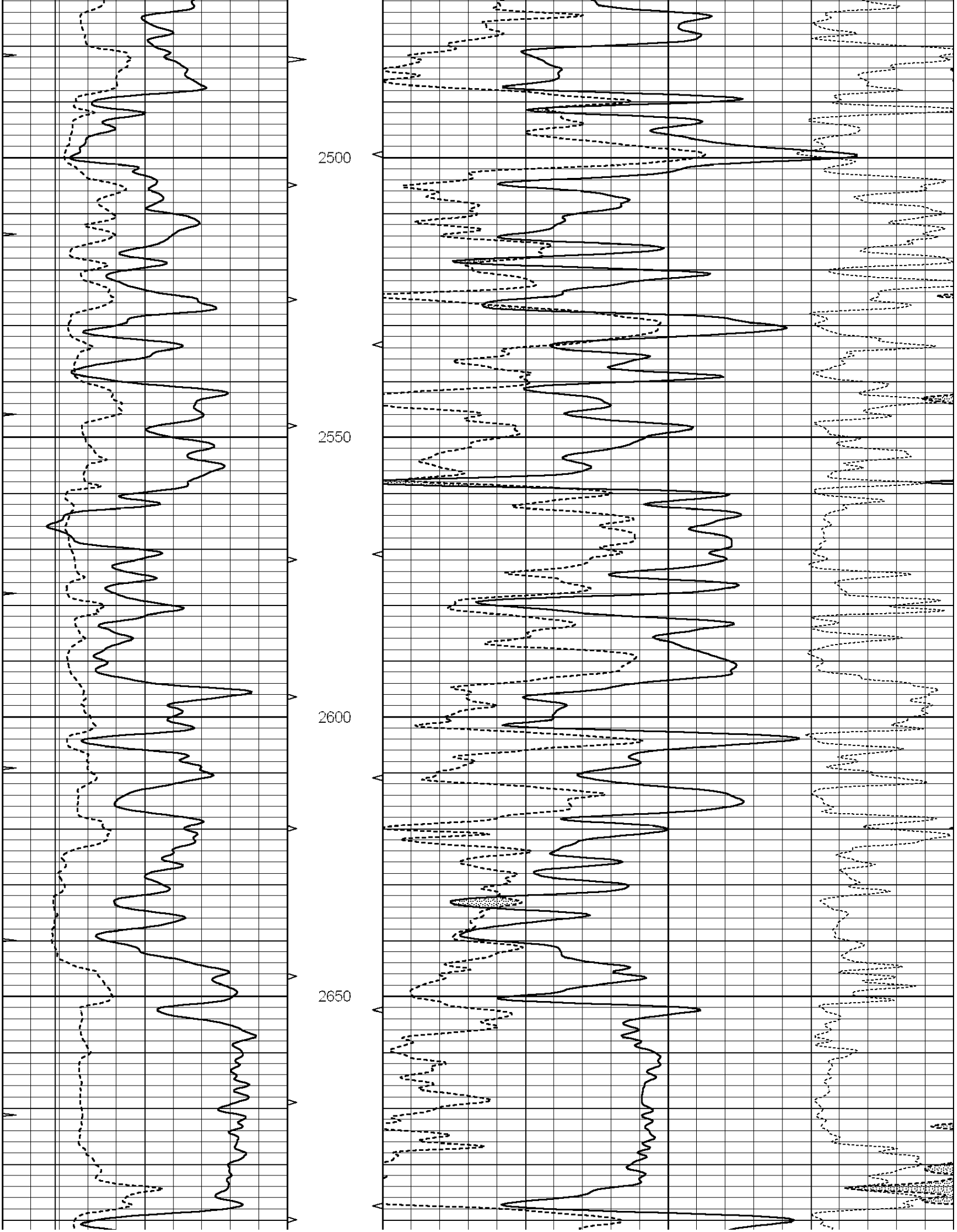
SUPERIOR
Hays,

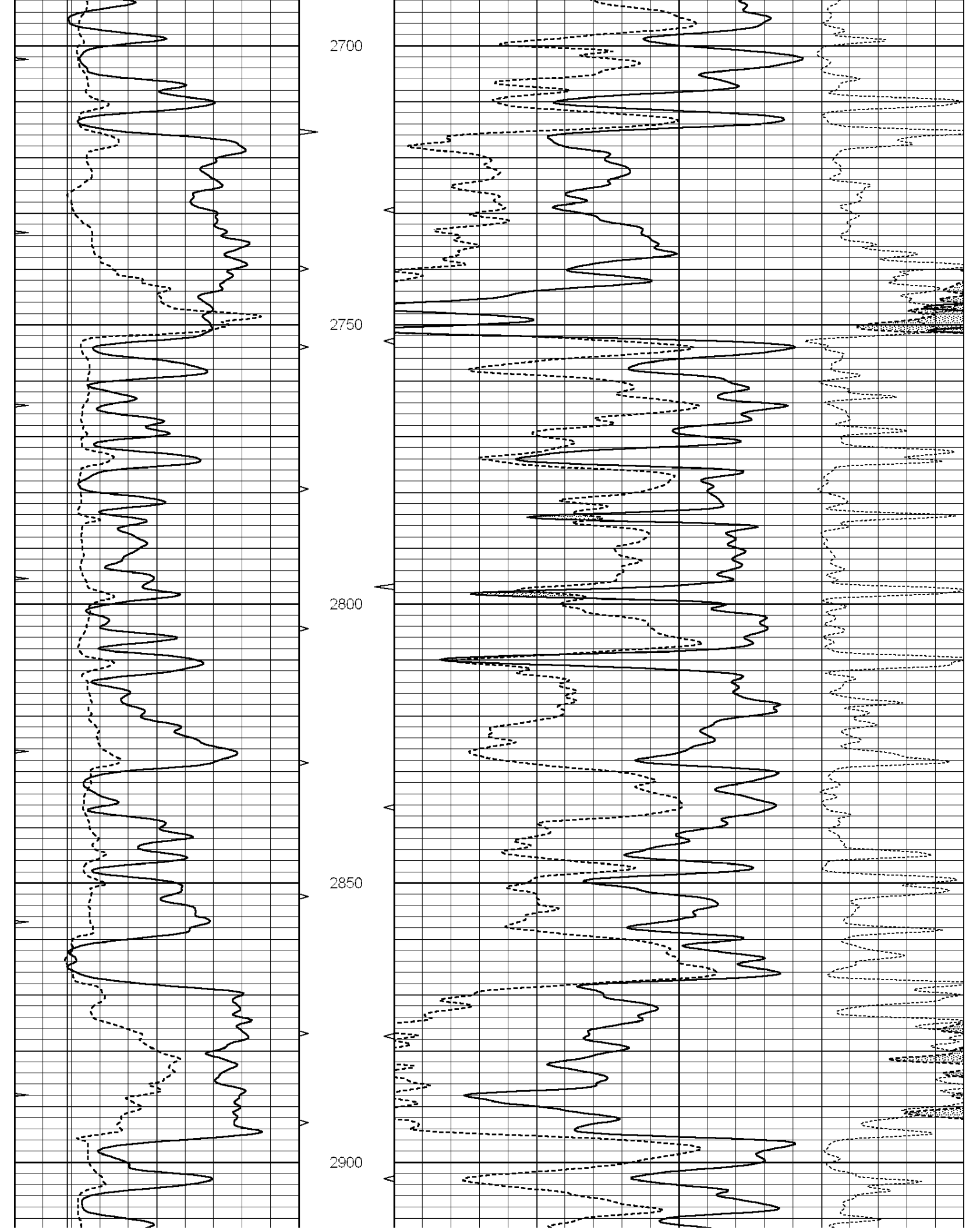
Kansas

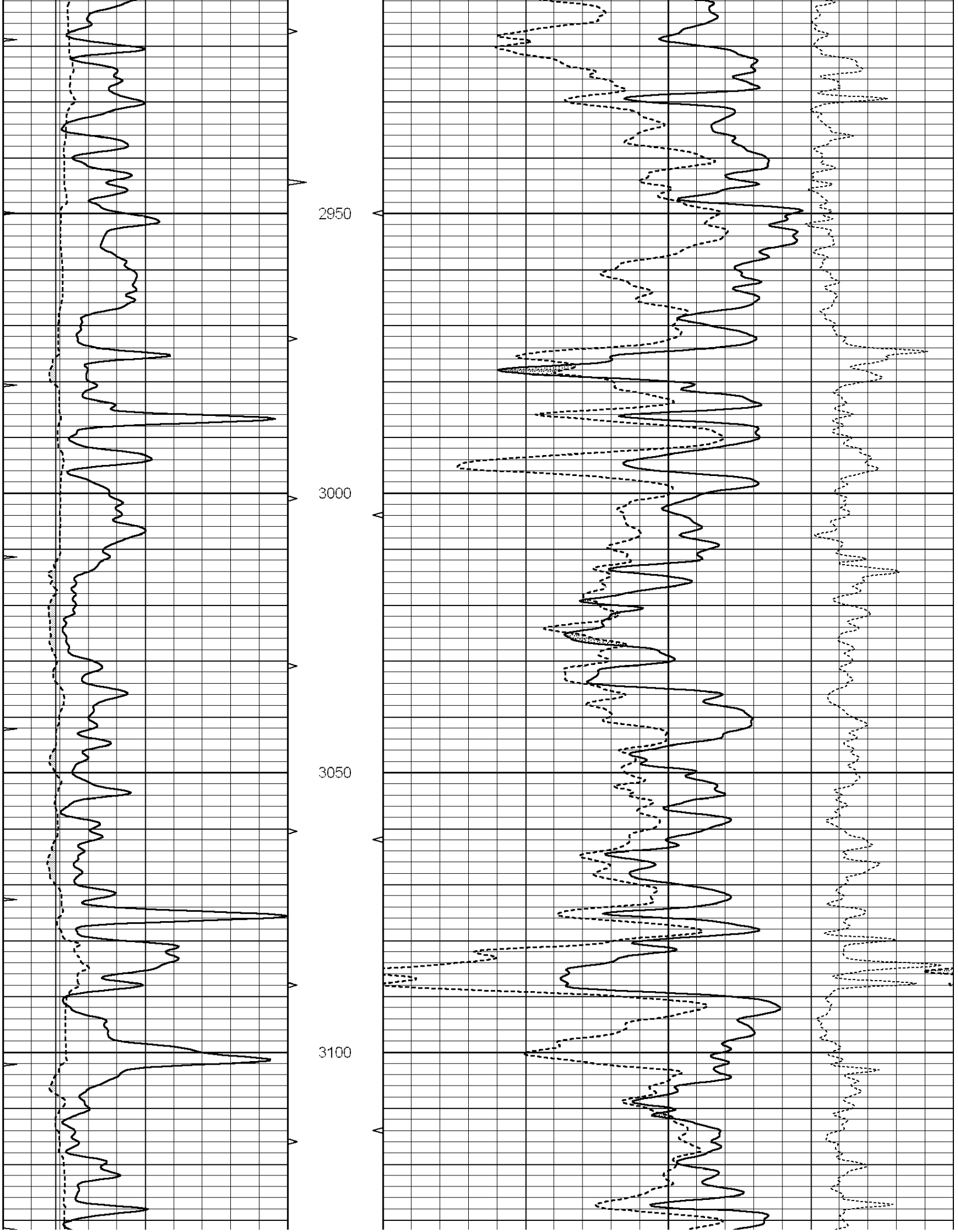
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Presentation Format: den_neu
Dataset Creation: Tue Dec 14 03:29:50 2010
Charted by: Depth in Feet scaled 1:240

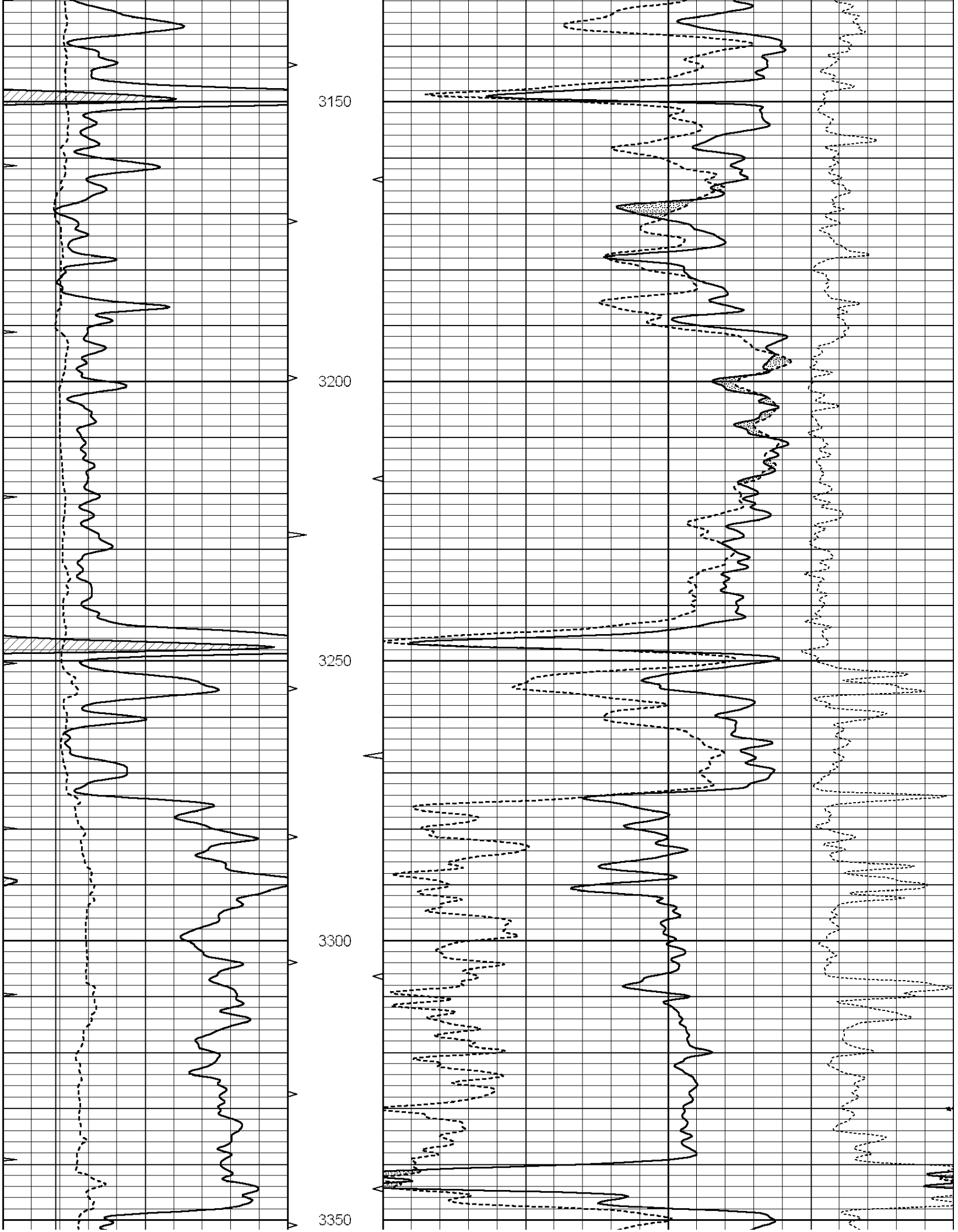
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu) -10
6	CALIPER (in)	16	10 (ft3) 0	30	COMPENSATED NEUTRON (pu) -10
0	MINMK	20	TBHV	-0.25	CORRECTION (g/cc) 0.25
			0 (ft3) 10		

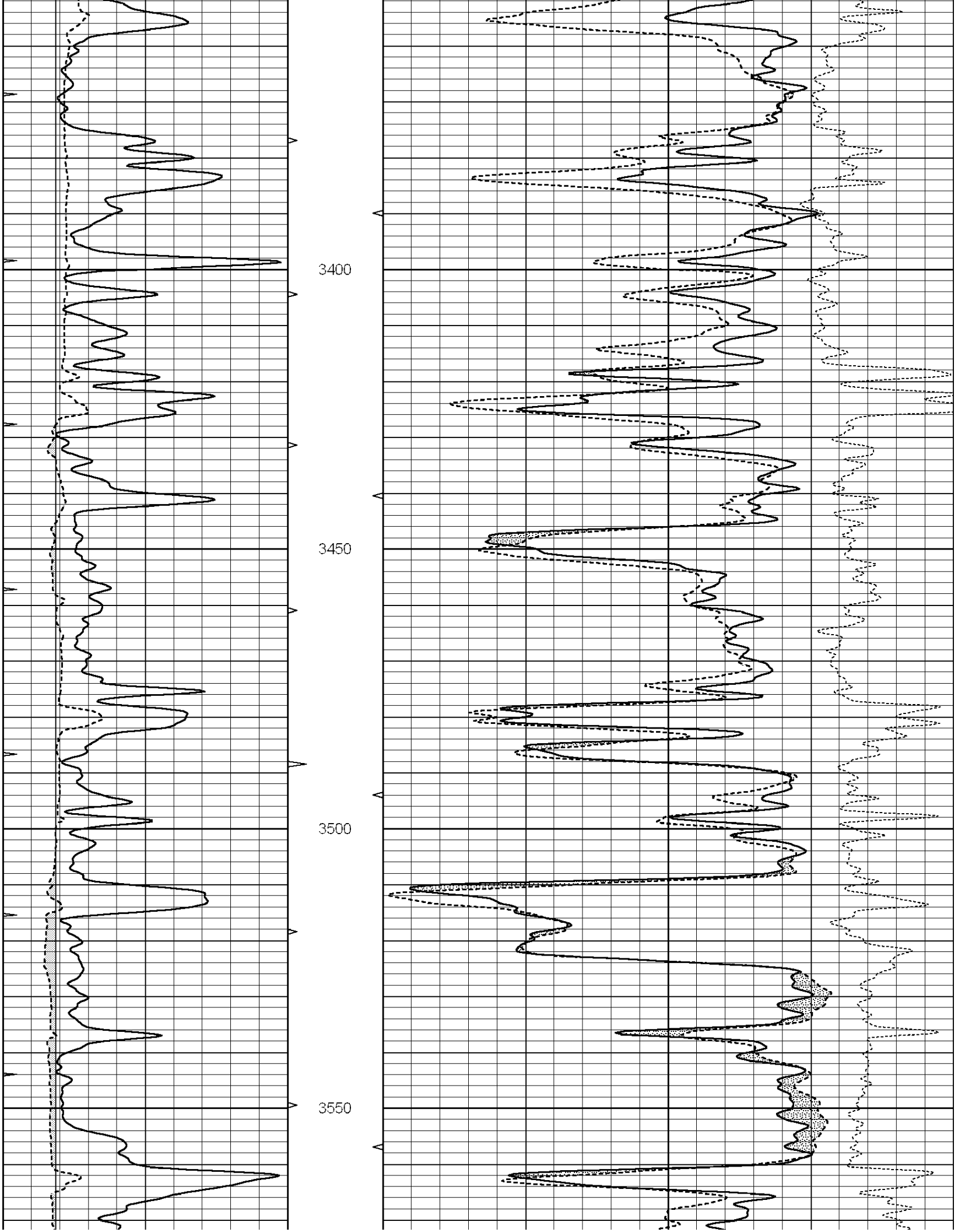


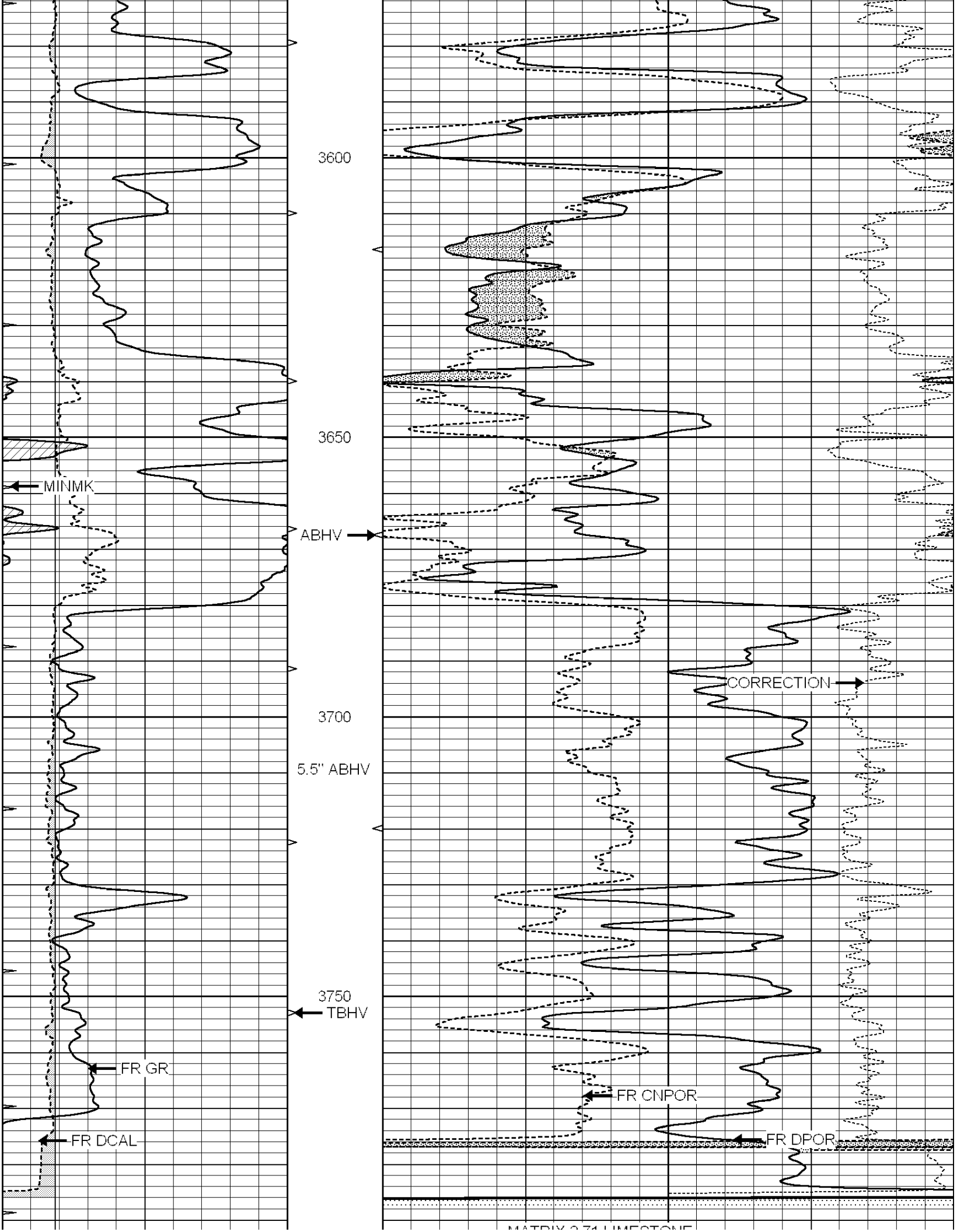

2500
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3400
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3600
3650
MINMK
ABHV
CORRECTION
3700
5.5" ABHV
3750
TBHV
FR GR
FR CNPOR
FR DCAL
FR DPOR
MATRIX 2.71 LIMESTONE

MATRIX 2.71 LIMESTONE

3800 --- TD ---

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			

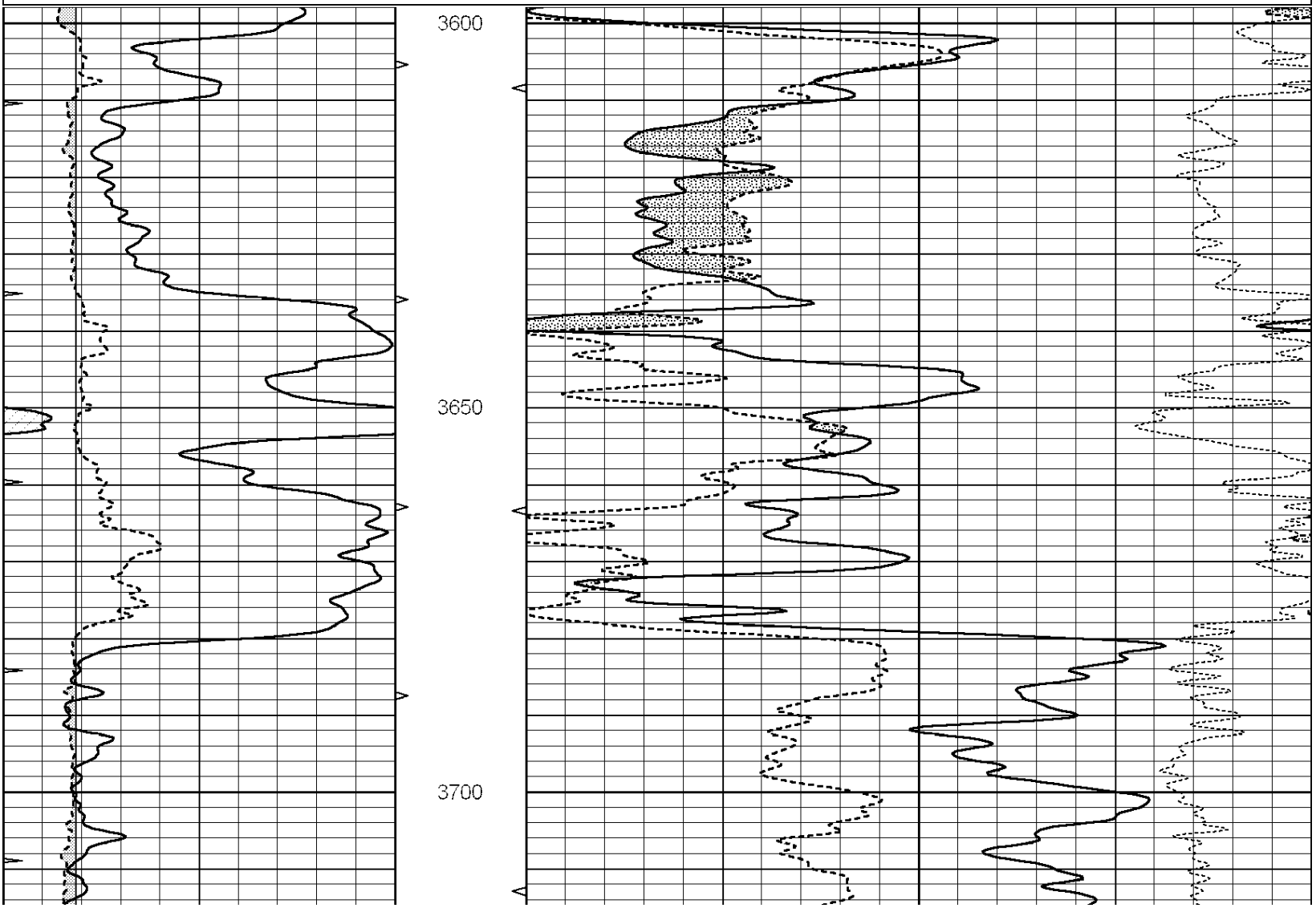
SUPERIOR WELL SERVICES

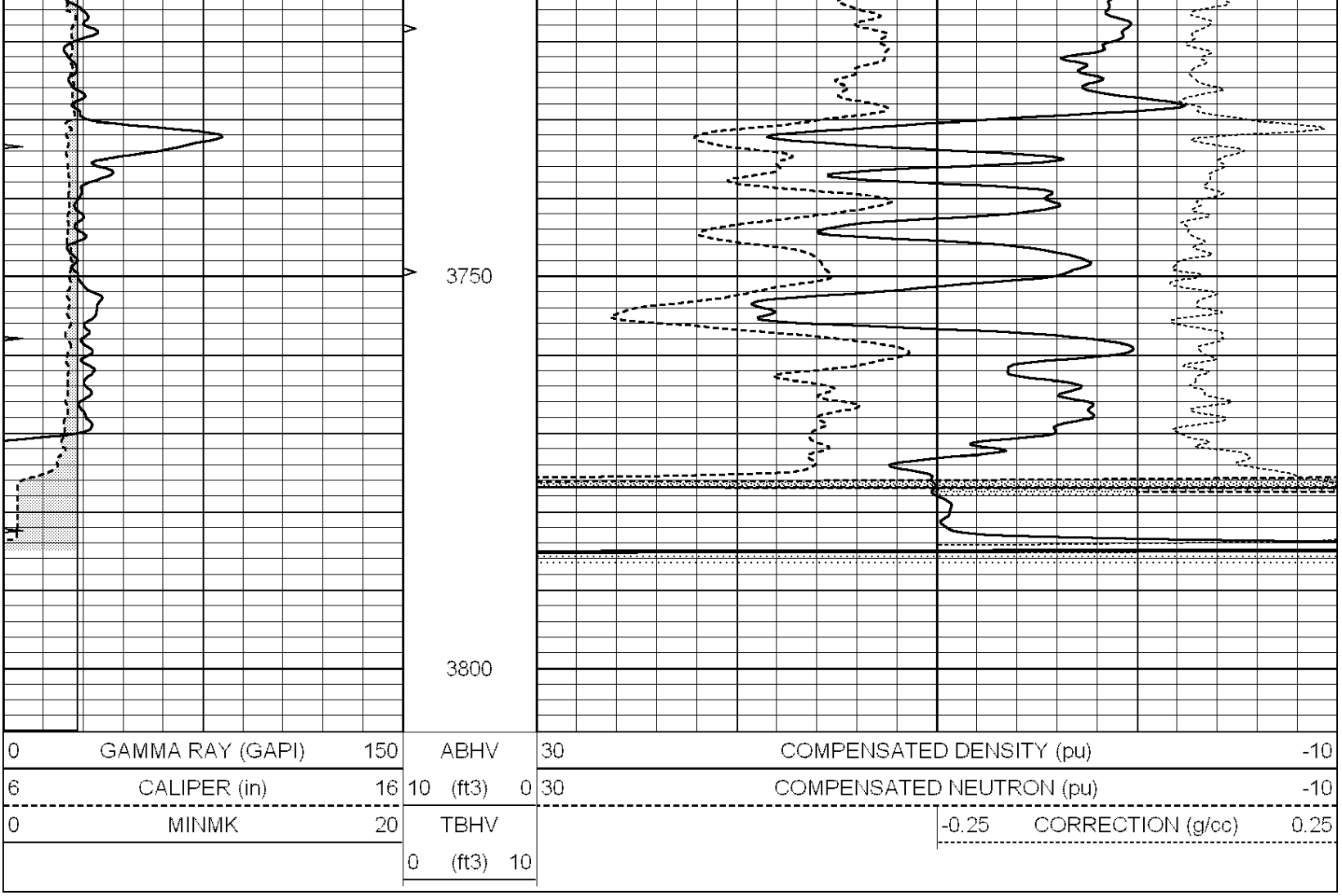
SUPERIOR
Hays,
Kansas

REPEAT SECTION

Database File:	006310ddn.db
Dataset Pathname:	pass2.1A
Presentation Format:	den_neu
Dataset Creation:	Tue Dec 14 02:47:34 2010
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: 006310ddn.db
Dataset Pathname: pass3.2A
Dataset Creation: Tue Dec 14 03:29:50 2010

Dual Induction Calibration Report

Serial-Model: DIL5-GEAR
Performed: Tue Dec 14 02:22:19 2010

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.004	0.654	V	0.000	400.000	mmho/m	530.000	-9.000
Medium	-0.005	0.737	V	0.000	462.500	mmho/m	520.000	-12.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.006	0.655	V	0.000	400.000	mmho/m	615.668	-3.483
Medium	0.010	0.747	V	0.000	462.500	mmho/m	627.607	-6.064

Compensated Density Calibration Report

Serial-Model: GEAR1-GEARHART
Source / Verifier: 147 / 147
Master Calibration Performed: Tue Dec 14 01:40:57 2010

Master Calibration

Density	Far Detector	Near Detector

Magnesium	1.710	g/cc	1243.76	629.14	cps
Aluminum	2.590	g/cc	282.16	435.01	cps

Spine Angle = 76.03

Density/Spine Ratio = 0.576

	Size		Reading	
Small Ring	7.70	in	3.82	V
Large Ring	14.00	in	6.37	V

Compensated Neutron Calibration Report

Serial Number: NEU_1I
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: GR5
Tool Model: OPEN
Performed: Tue Dec 14 02:21:22 2010

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.6500 GAPI/cps