SUPERIOR
Hays,
Kansas

COMPENSATED DENSITY / NEUTRON LOG

Company RITCHIE EXPLORATION, INC.

Well #2 EATON 13CD

Field WILDCAT

County LOGAN State KANSAS

Location: API # : 15-109-21110

115' FSL & 115' FWL

SEC 13 TWP 13S RGE 32W

Other Services

DIL

Elevation

K.B. 2938
D.F.
G.L. 2928

Permanent Datum GROUND LEVEL Elevation 2928
Log Measured From KELLY BUSHING 10' A.G.L.
Drilling Measured From KELLY BUSHING

Company RITCHIE EXPLORATION, INC.
Well #2 EATON 13CD
Field WILDCAT
County LOGAN
State KANSAS

Date	7-11-12		
Run Number	ONE		
Depth Driller	4695		
Depth Logger	4694		
Bottom Logged Interval	4670		
Top Log Interval	3600		
Casing Driller	225		
Casing Logger	225		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.2 / 67		
pH / Fluid Loss	10.0 / 7.2		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.85 @ 84F		
Rmf @ Meas. Temp	0.64 @ 84F		
Rmc @ Meas. Temp	1.02 @ 84F		
Source of Rmf / Rmc	MEASURED		
Rm @ BHT	.590 @ 122F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	6:00 P.M.		
Maximum Recorded Temperature	122F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	RUPP		
Witnessed By	TED YOCHEMS		

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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: OAKLEY, 13S TO QUAIL RD., 1E, 1S, 1E, 1/2N, W INTO.

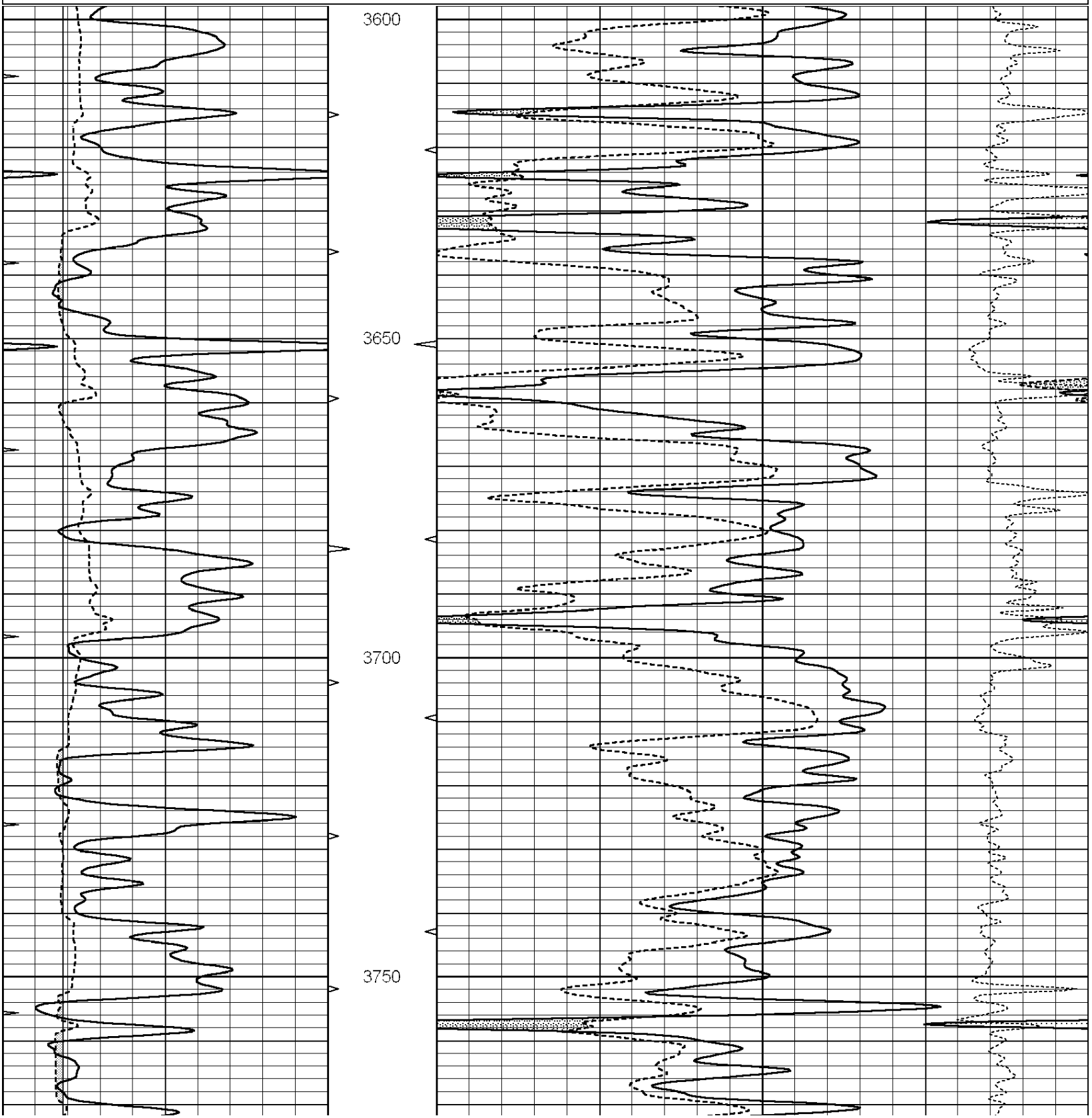
MAIN SECTION

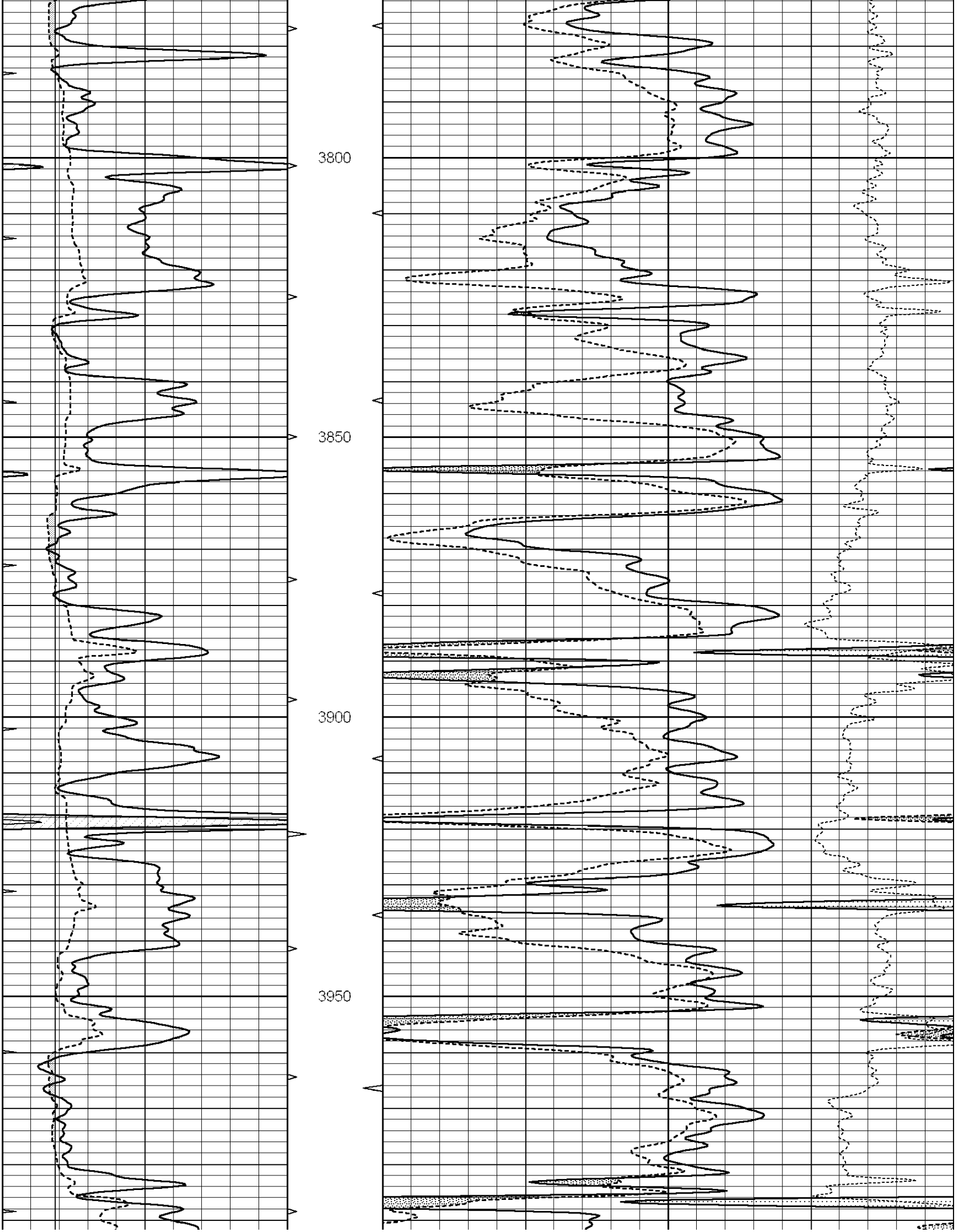
SUPERIOR
Hays,

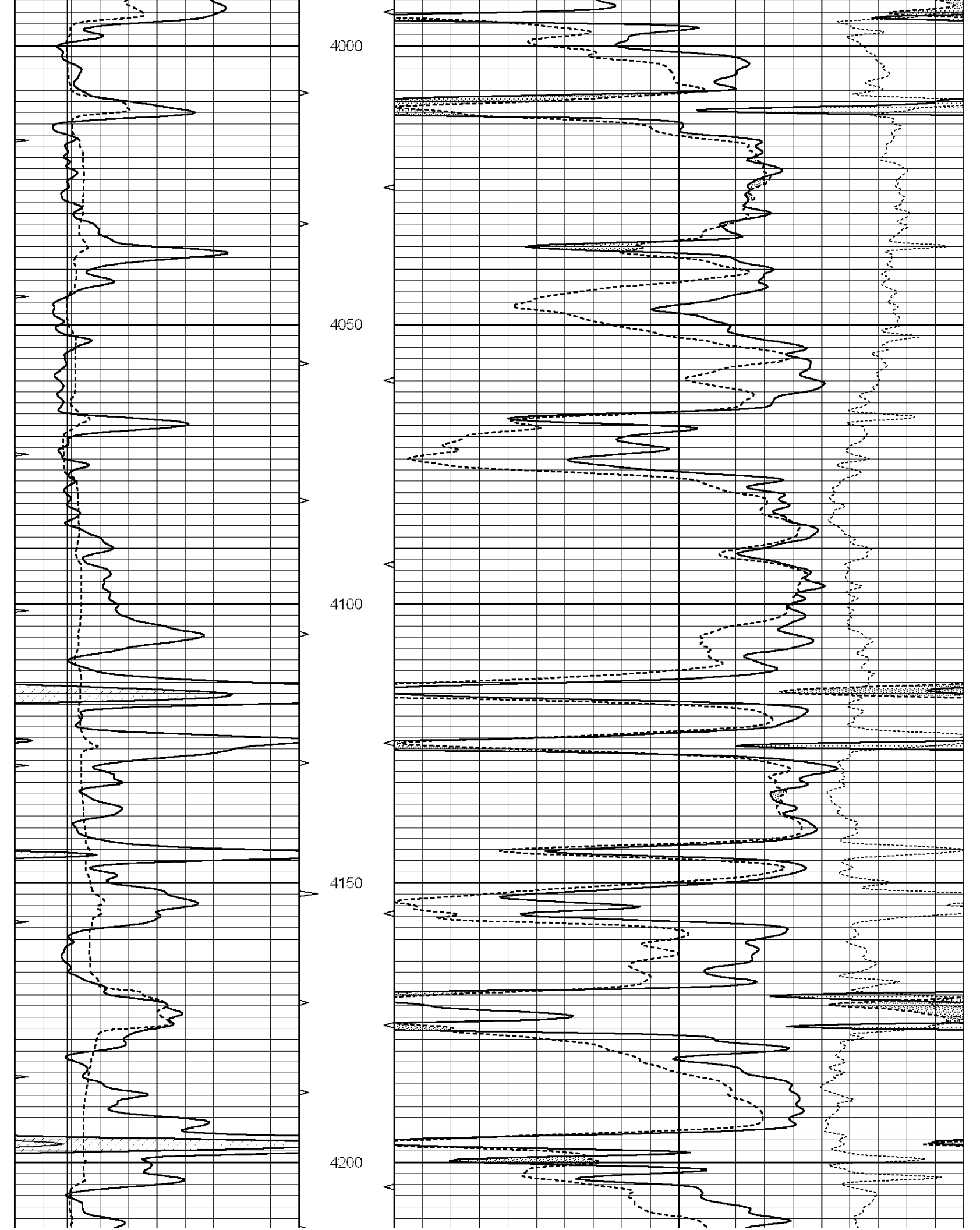
Kansas

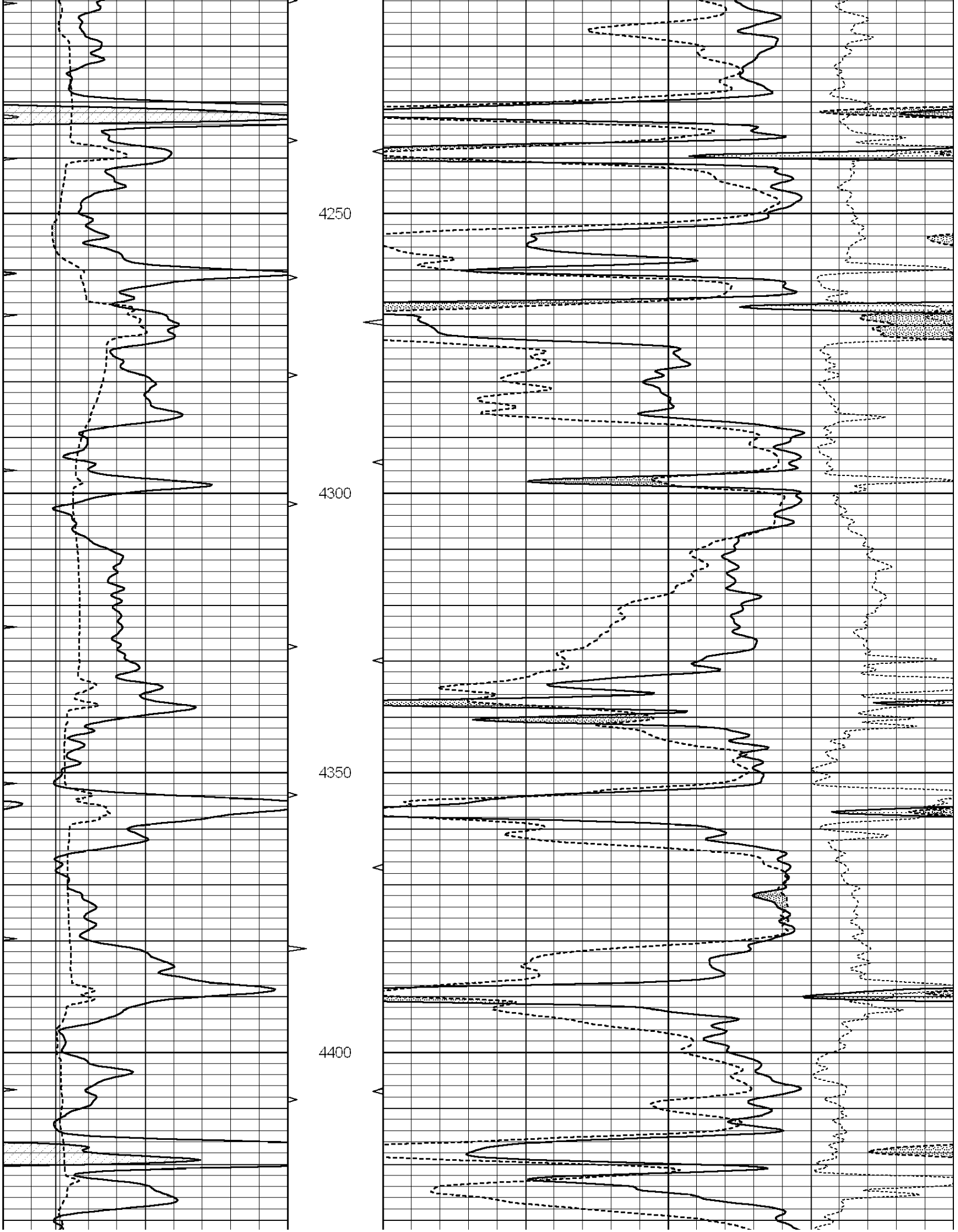
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Dataset Creation: Wed Jul 11 21:39:46 2012
Charted by: Depth in Feet scaled 1:240

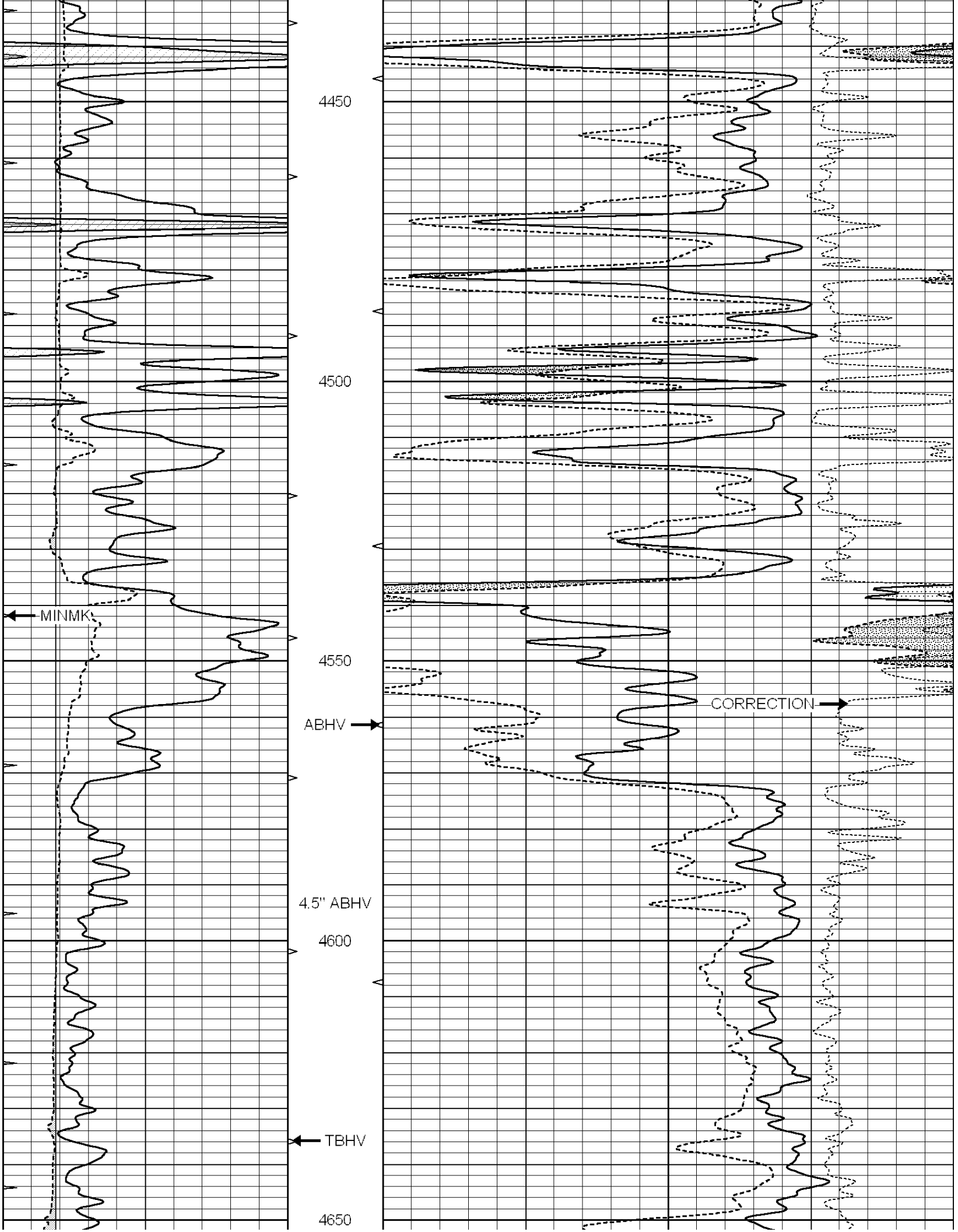
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu) -10
0	MINMK	20	10 (ft3) 0	30	COMPENSATED NEUTRON (pu) -10
6	MELCAL (in)	16	TBHV	-0.25	CORRECTION (g/cc) 0.25
			0 (ft3) 10		

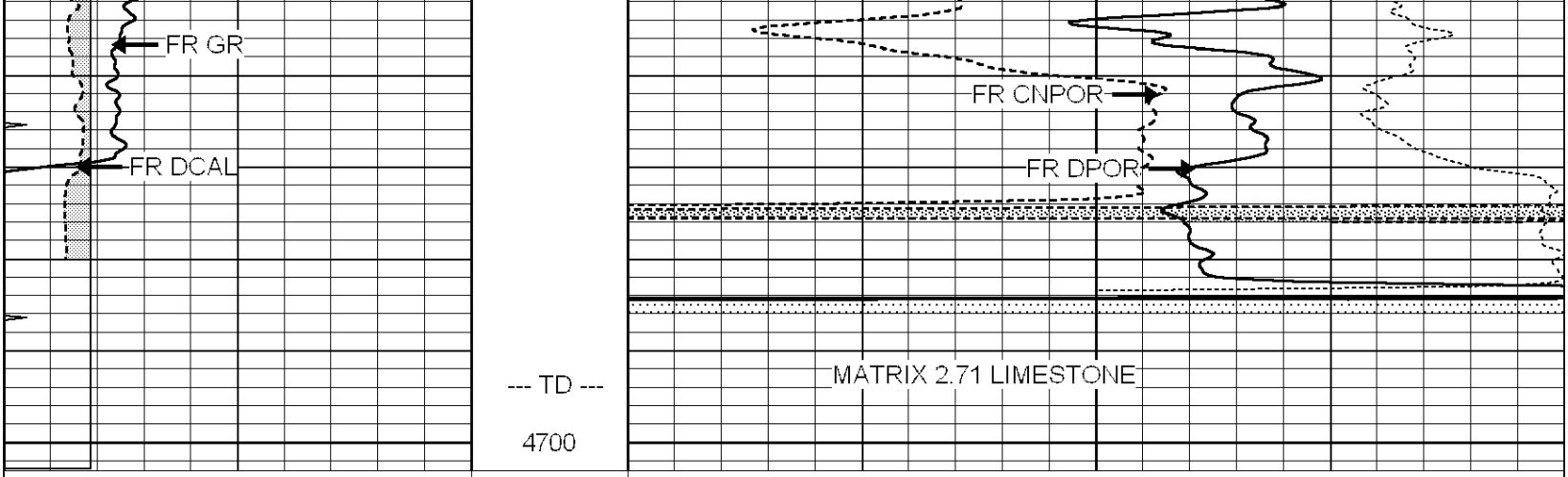



3800
3850
3900
3950


4000
4050
4100
4150
4200


4250
4300
4350
4400


4450
4500
MINMK
4550
ABHV
CORRECTION
4.5" ABHV
4600
TBHV
4650



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

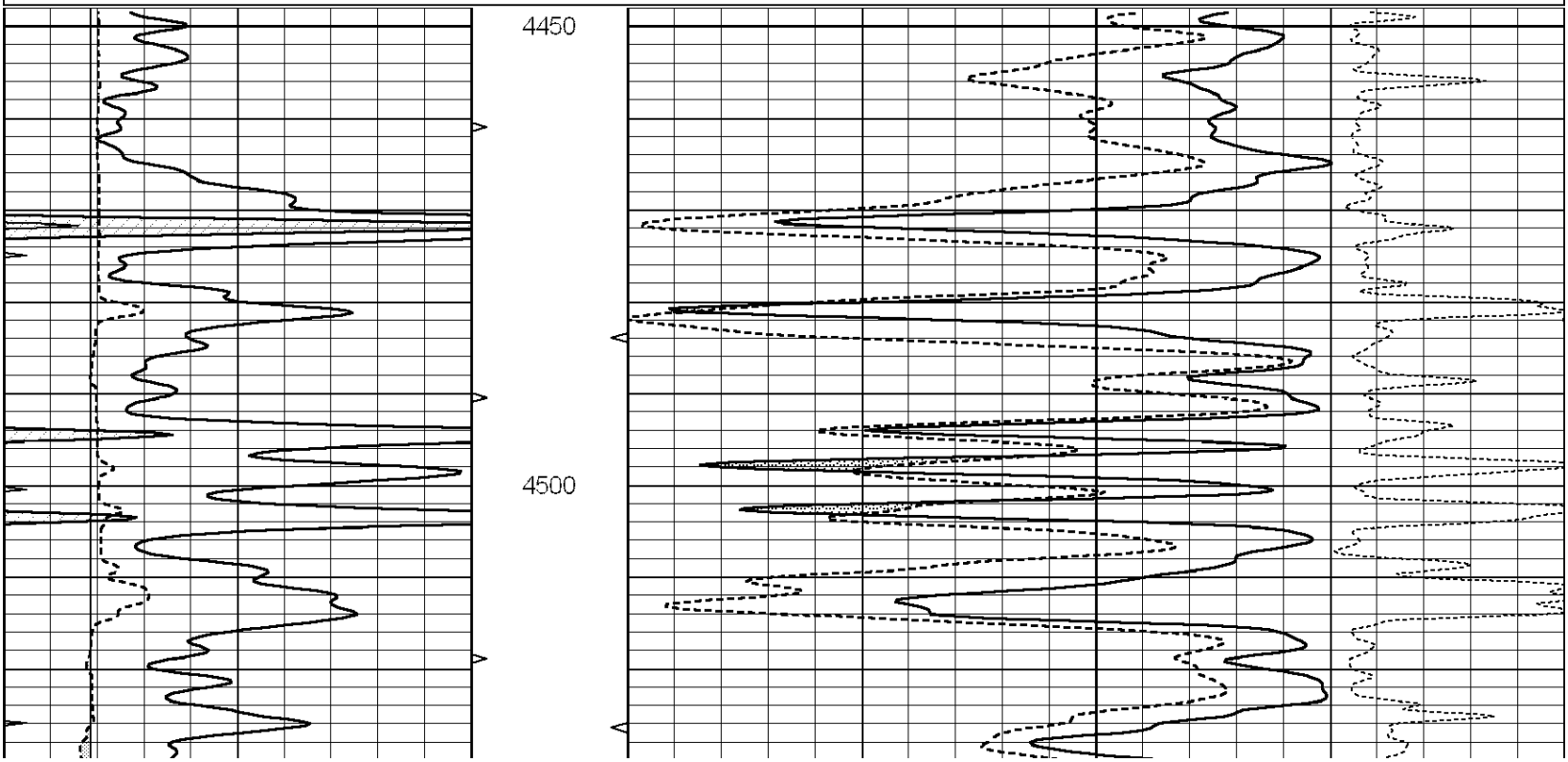
SUPERIOR WELL SERVICES

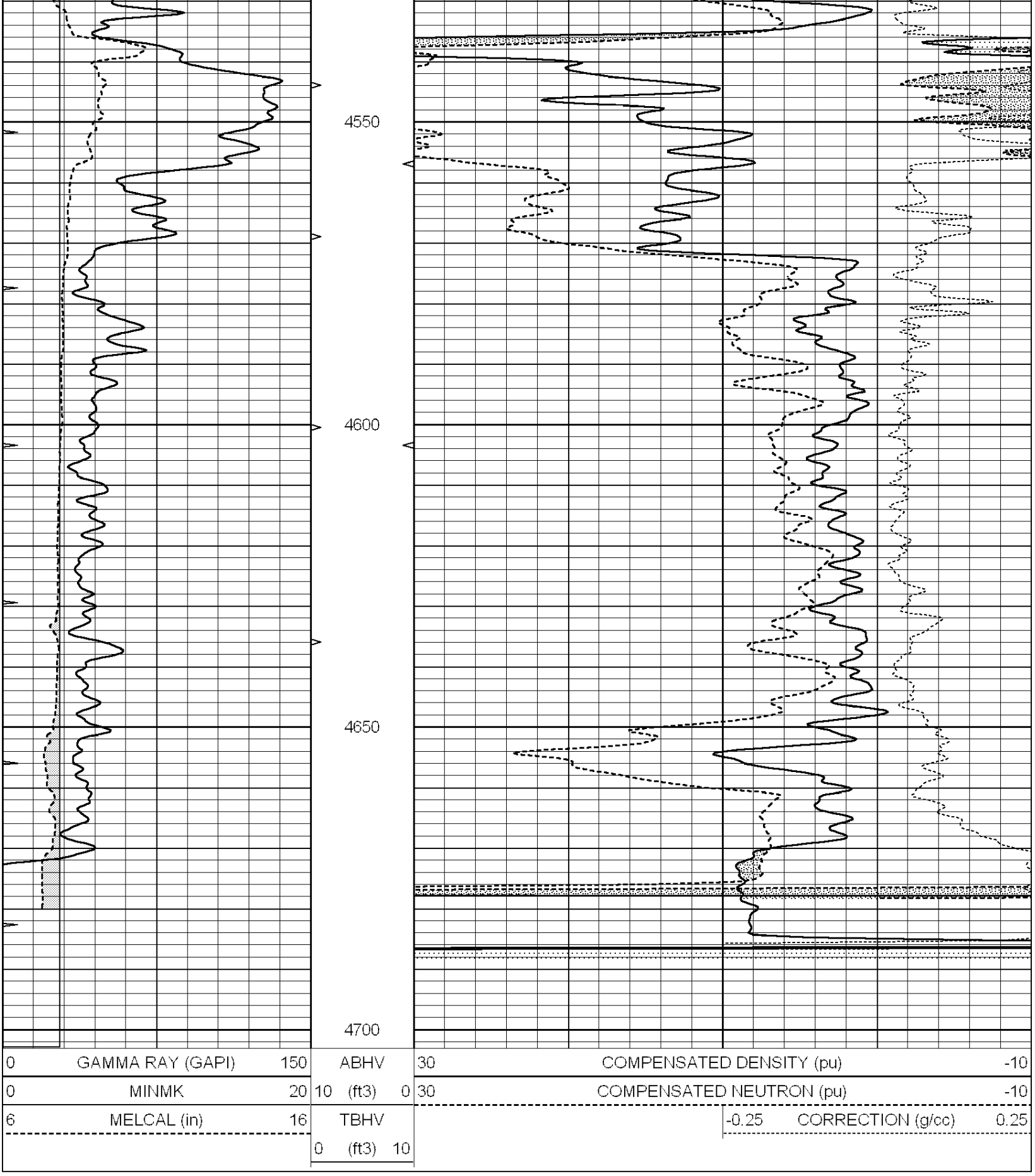
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Hays,
Kansas

REPEAT SECTION

Database File: 009554ddn.db
Dataset Pathname: pass2.2
Presentation Format: den_neu
Dataset Creation: Wed Jul 11 21:50:21 2012
Charted by: Depth in Feet scaled 1:240

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0	MINMK	20	10 (ft3)	0	30	COMPENSATED NEUTRON (pu)	-10
6	MELCAL (in)	16	TBHV			-0.25 CORRECTION (g/cc)	0.25
			0 (ft3)	10			





Calibration Report

Database File: 009554ddn.db
Dataset Pathname: pass3.3
Dataset Creation: Wed Jul 11 21:39:46 2012

Dual Induction Calibration Report

Serial-Model: DIL5-GEAR
Performed: Wed Jul 11 18:34:55 2012

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.004	0.654	V	0.000	400.000	mmho/m	500.000	-10.000
Medium	-0.005	0.737	V	0.000	462.500	mmho/m	530.000	-8.000
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: Wed Jul 11 18:39:29 2012

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	7.80	in	3.80	V
Large Ring	14.00	in	5.67	V

Compensated Neutron Calibration Report

Serial Number: NUE_2I
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: Wed Jul 11 18:49:49 2012

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.7500 GAPI/cps