SUPERIOR WELL SERVICES

SUPERIOR
Hays,
Kansas

COMPENSATED DENSITY / NEUTRON LOG

Company	MAI OIL OPERATIONS, INC.
Well	SCHMITT#2
Field	KENNEBEC
County	RUSSELL
State	KANSAS

Company MAI OIL OPERATIONS

Well SCHMITT#2

Field KENNEBEC

County RUSSELL State KANSAS

Location: API # : 15-167-23799-0000

330' FSL & 990' FEL

SW - SE - SE

SEC 4 TWP 15S RGE 14W

Permanent Datum GROUND LEVEL Elevation 1764

Log Measured From KELLY BUSHING 8' A.G.L.

Drilling Measured From KELLY BUSHING

Other Services: DIL/MEL

Elevation: K.B. 1772 D.F. 1770 G.L. 1764

Date	6/2/12		
Run Number	ONE		
Depth Driller	3300		
Depth Logger	3300		
Bottom Logged Interval	3276		
Top Log Interval	2200		
Casing Driller	8 5/8"@372'		
Casing Logger	372'		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 7000 PPM	
Density / Viscosity	9.4/52		
pH / Fluid Loss	11.0/8.0		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.70@80F		
Rmf @ Meas. Temp	0.53@80F		
Rmc @ Meas. Temp	0.84@80F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	0.51@110F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	110F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	JEFF GRONEWEG		
Witnessed By	KURT TALBOTT		

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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 HAYS, KANSAS (785) 628-6395

DIRECTIONS

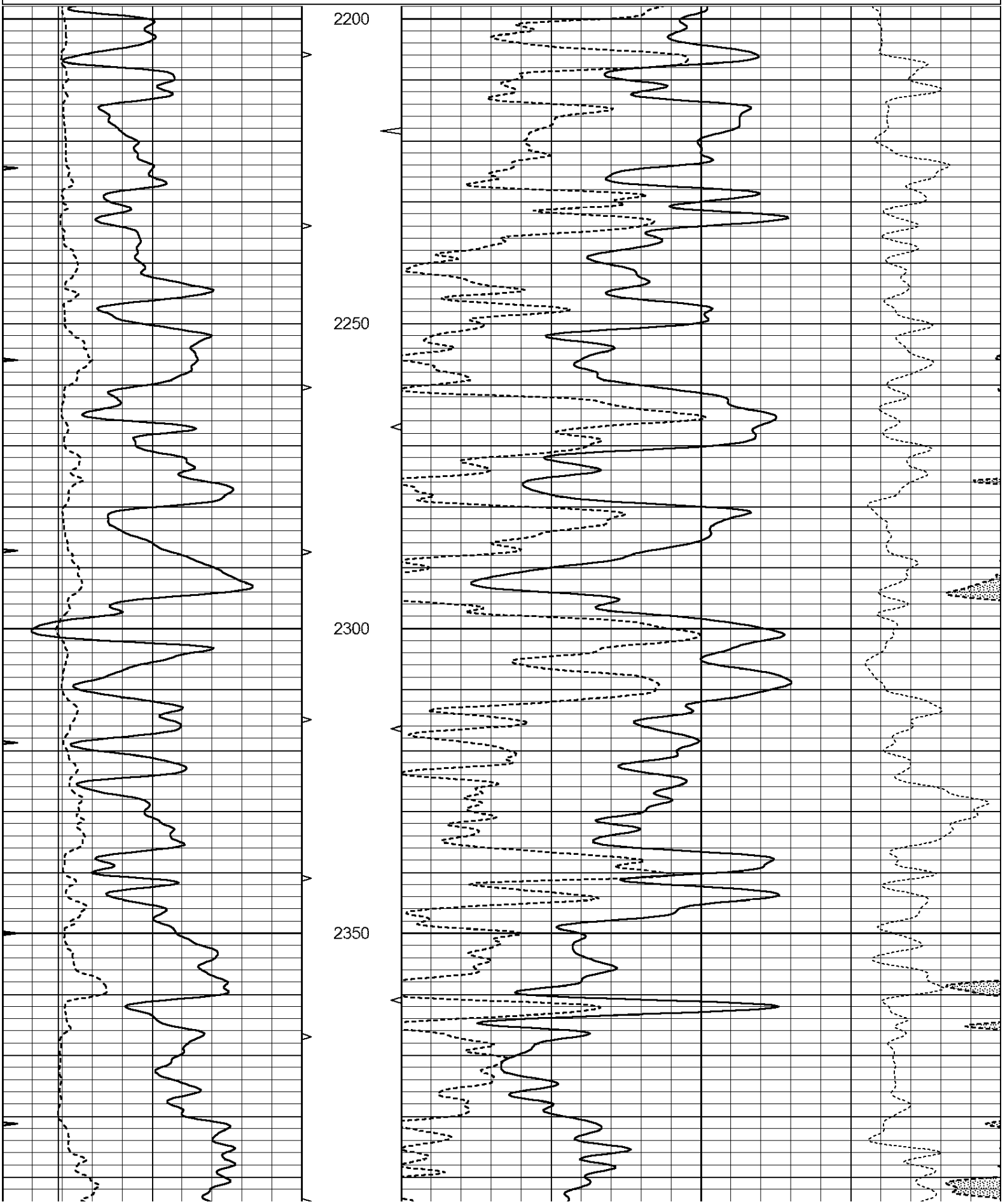
RUSSELL, KS - SOUTH TO WALTERS RD - 1 1/2 MILES WEST

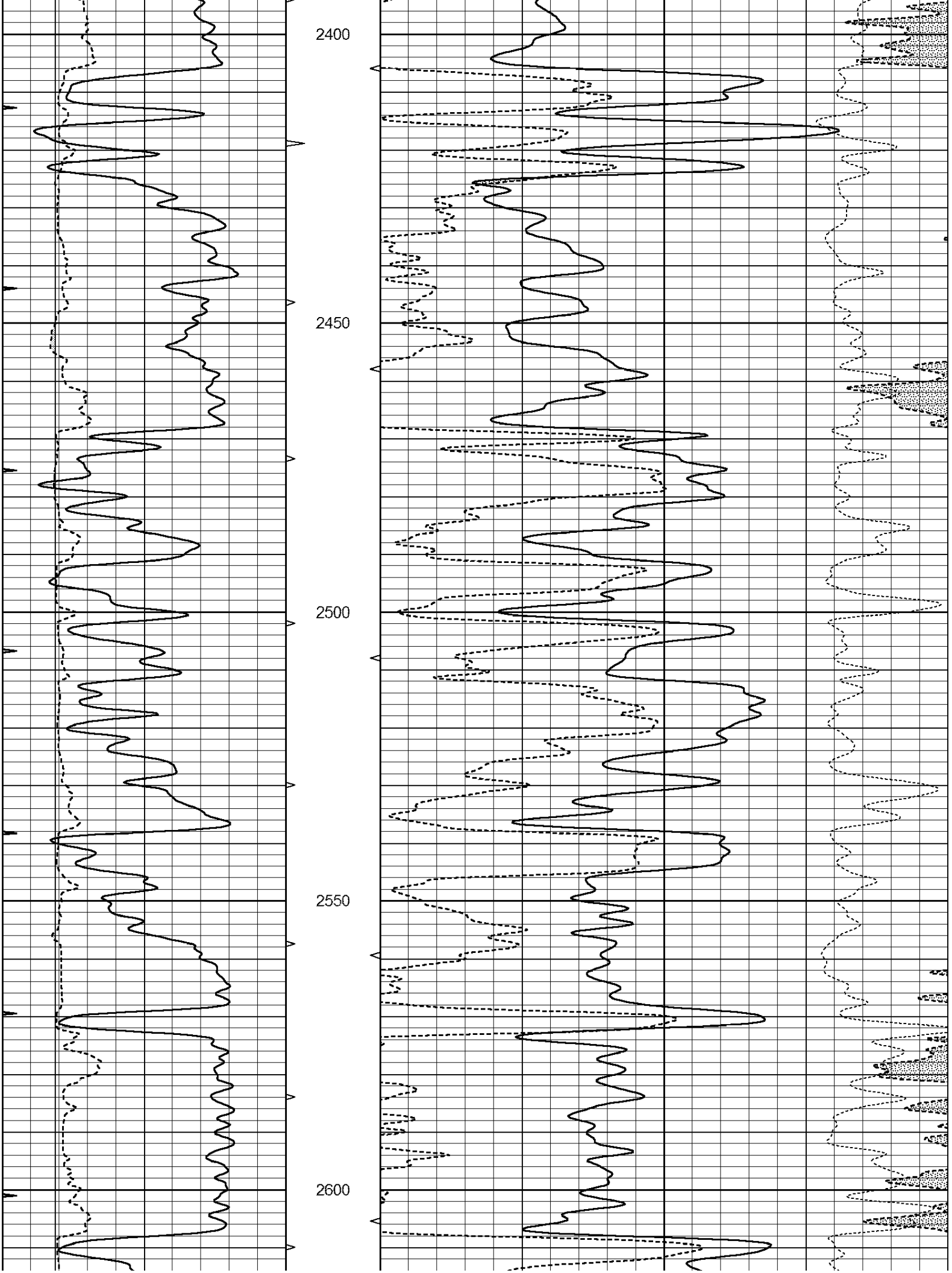
NORTH INTO

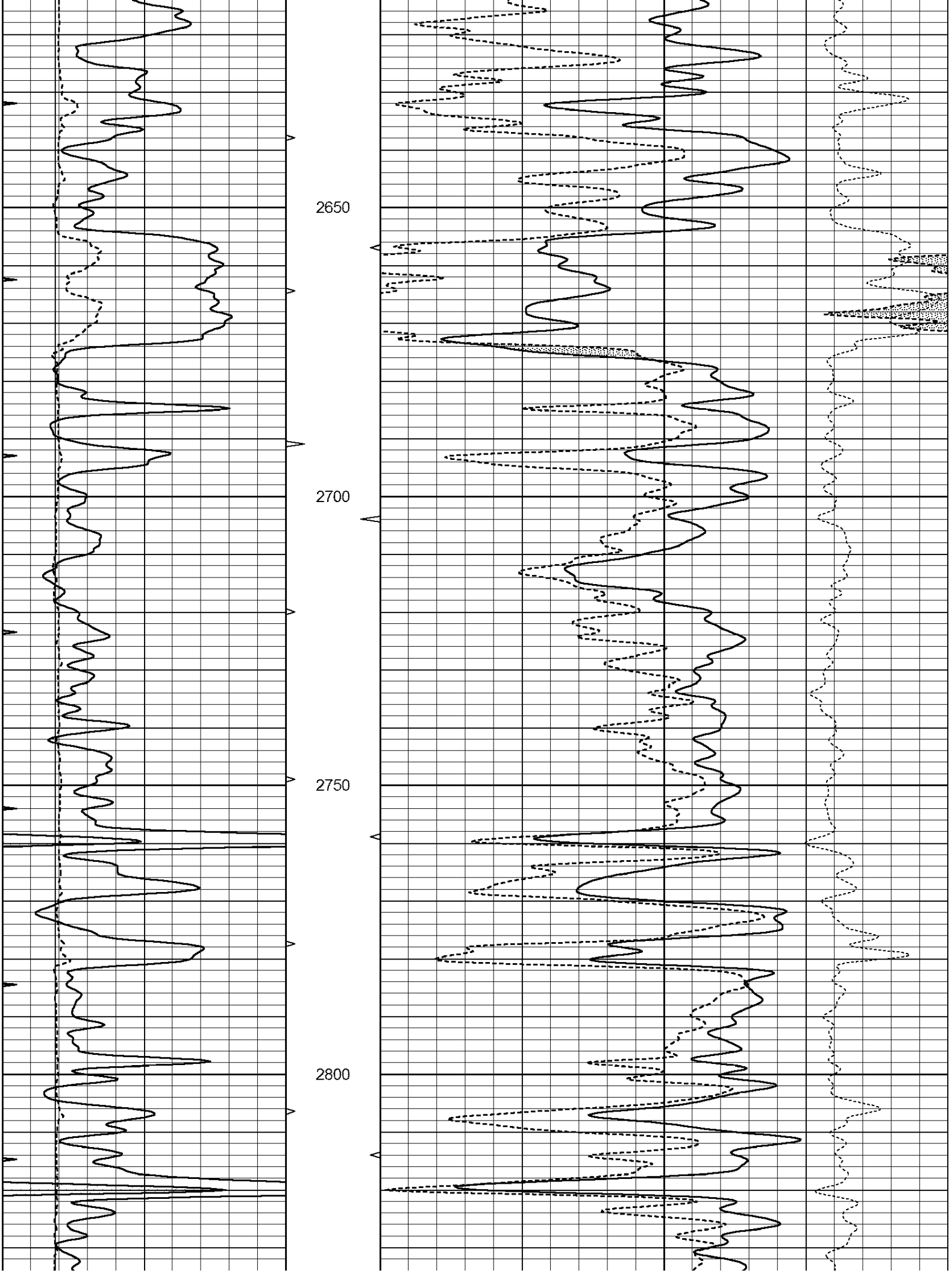
Database File:	409132ddn.db
Dataset Pathname:	pass3.3
Presentation Format:	den_neu
Dataset Creation:	Sat Jun 02 12:44:09 2012 by Calc Open-Cased 110302
Charted by:	Depth in Feet scaled 1:240

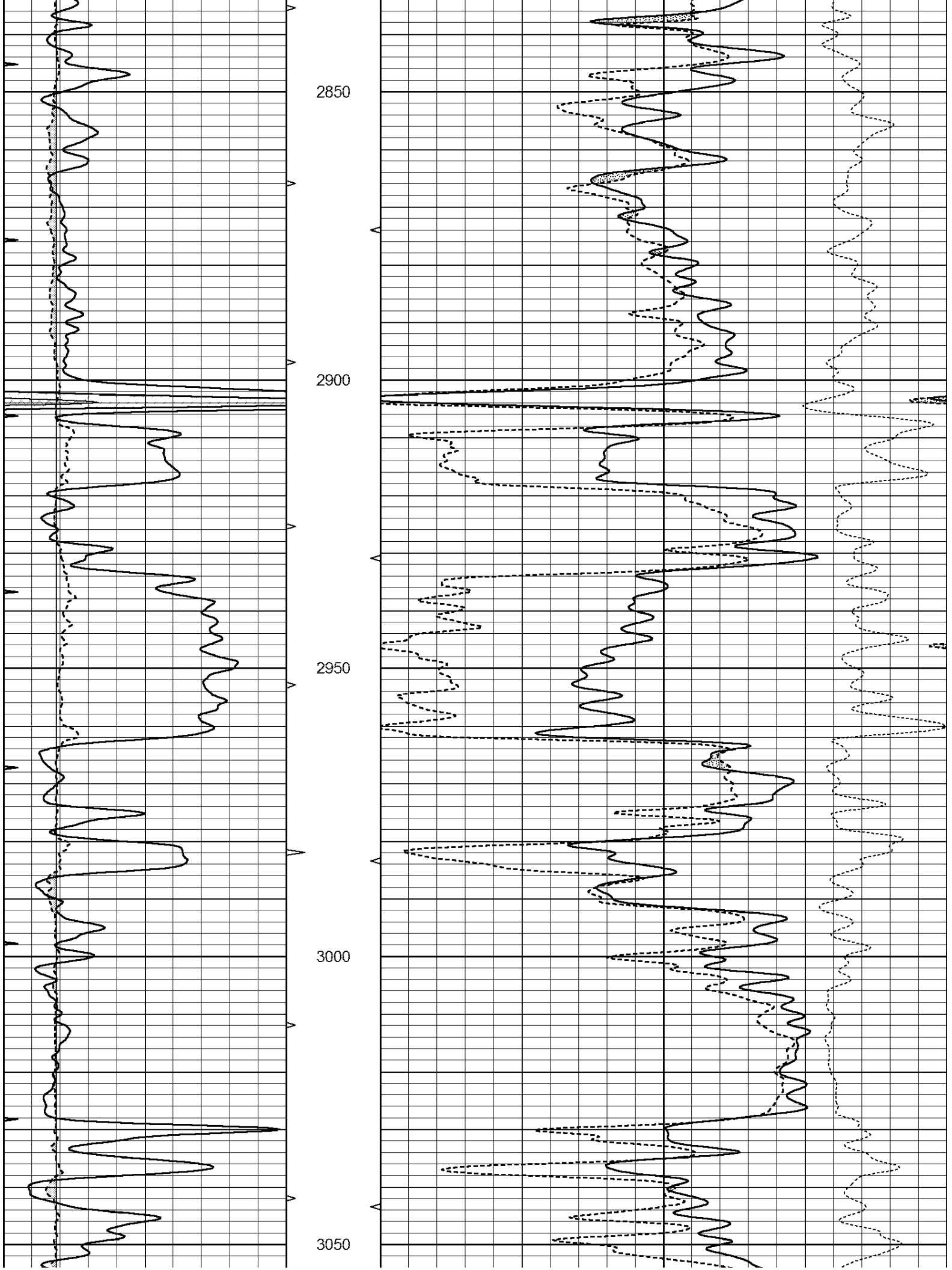
Charted by: Depth in Feet scaled 1:240

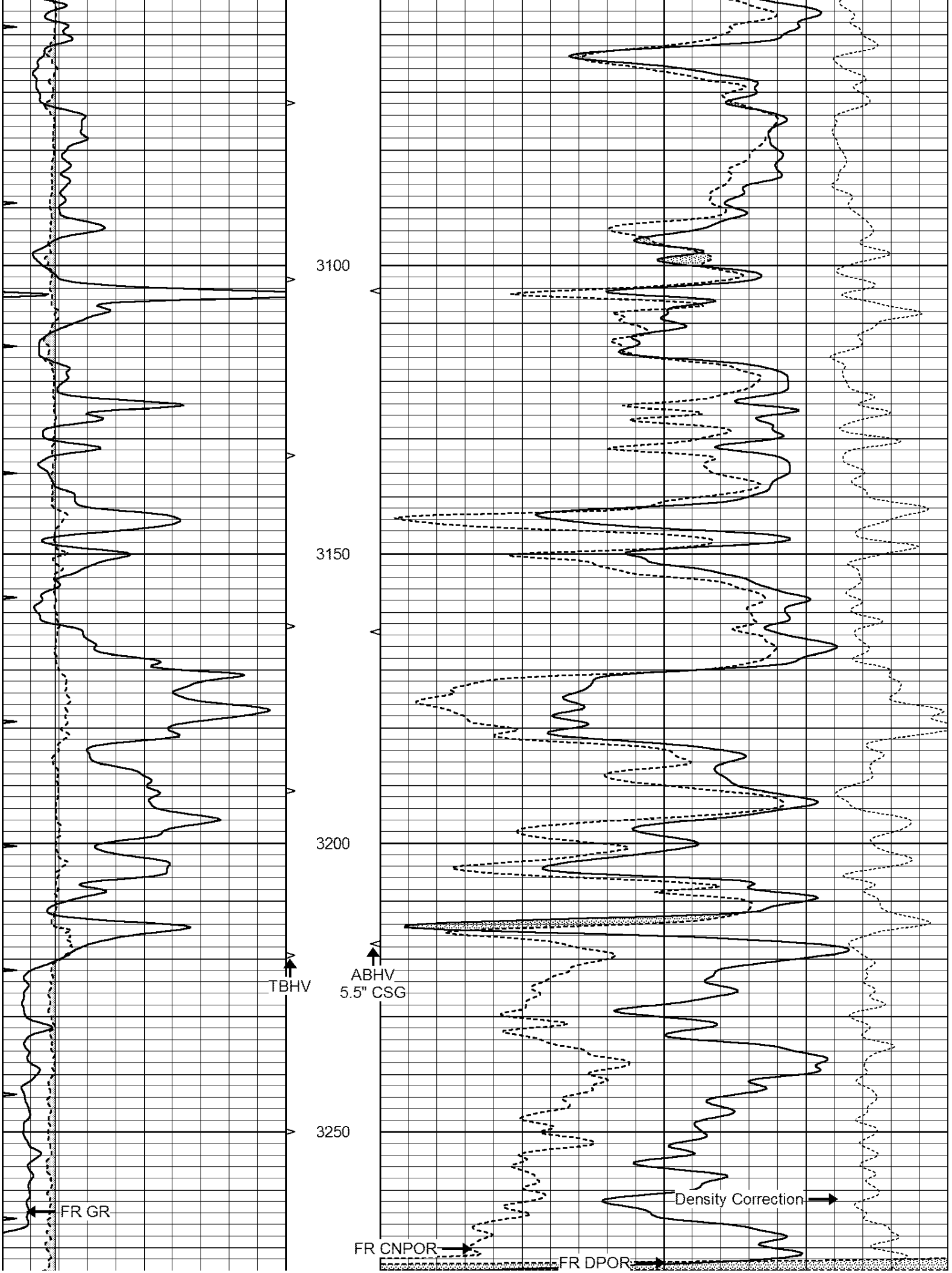
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu) -10
6	CALIPER (in)	16	10 (ft3) 0	30	COMPENSATED NEUTRON (pu) -10
0	MINMK	20	TBHV		-0.25 CORRECTION (g/cc) 0.25
			0 (ft3) 10		




2400
2450
2500
2550
2600


2650
2700
2750
2800


2850
2900
2950
3000
3050


3100
3150
3200
3250
TBHV
ABHV
5.5" CSG
FR GR
Density Correction
FR CNPOR
FR DPOR

FR DCAL

LIMESTONE MATRIX 2.71

LTD 3300

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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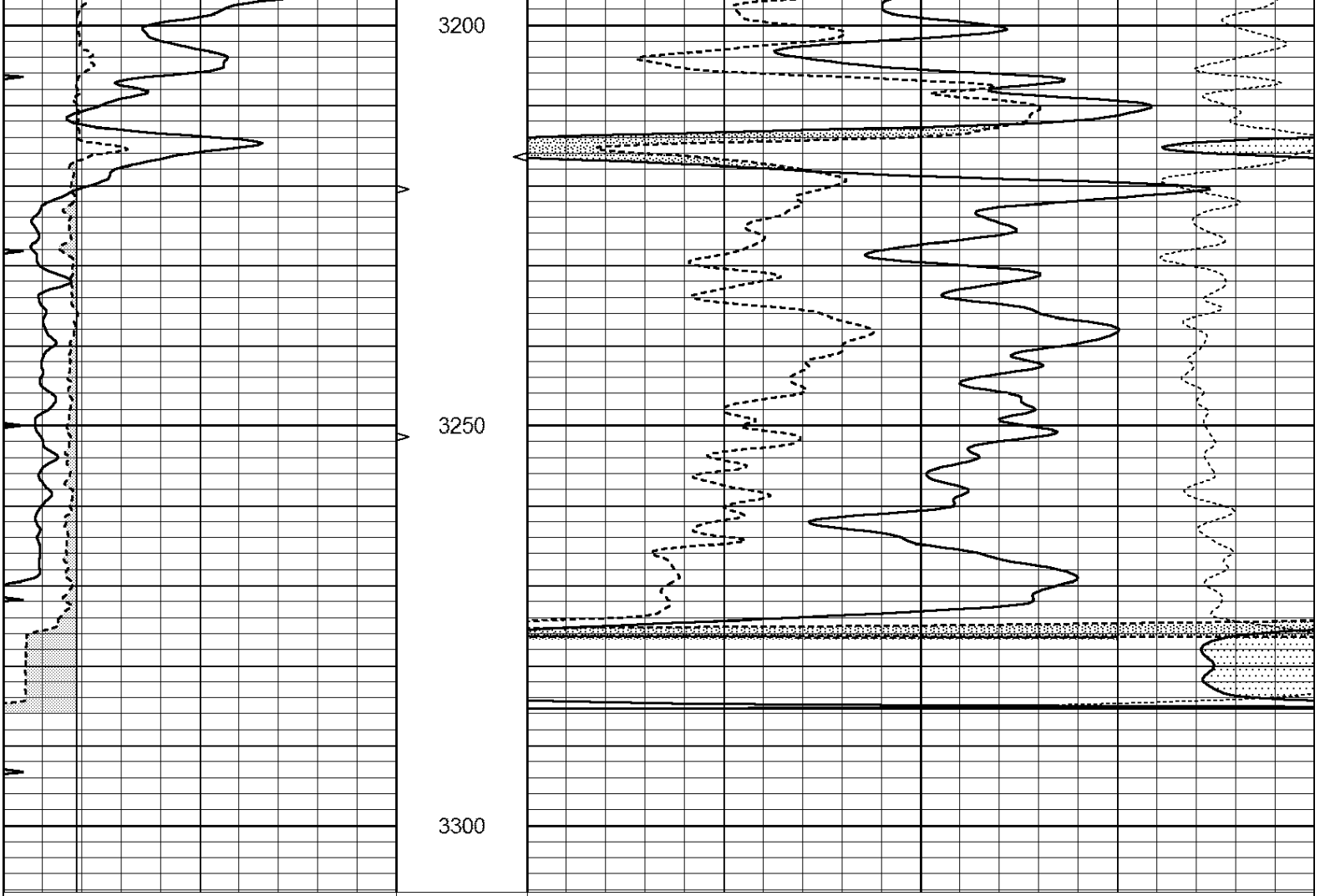
REPEAT SECTION

Database File: 409132ddn.db
Dataset Pathname: pass2.3
Presentation Format: den_neu
Dataset Creation: Sat Jun 02 12:49:38 2012 by Calc Open-Cased 110302
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			

3100

3150



Calibration Report

Database File: 409132ddn.db
Dataset Pathname: pass3.3
Dataset Creation: Sat Jun 02 12:44:09 2012 by Calc Open-Cased 110302

Dual Induction Calibration Report

Serial-Model: DIL3-GEAR
Performed: Thu May 31 19:11:40 2012

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.011	0.656	V	0.000	400.000	mmho/m	640.000	5.000
Medium	0.013	0.740	V	0.000	462.500	mmho/m	700.000	-5.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.002	0.645	V	0.000	400.000	mmho/m	622.059	-1.071
Medium	0.007	0.740	V	0.000	462.500	mmho/m	631.393	-4.555

Litho Density Calibration Report

Serial: 006 Model: PRB
Performed Sun Aug 15 09:48:41 2010

Litho Density Calibration

	Background	Magnesium	Aluminum	Sandstone	
Window 1	1686.6	11612.8	3932.0	12718.8	cps
Window 2	1531.4	9204.7	3267.8	9851.9	cps
Window 3	1198.3	4733.6	1952.5	4920.6	cps
Window 4	317.3	321.2	325.9	303.6	cps
Long Space	0.0	7673.3	1736.4	8320.4	cps
Short Space	1.7	2548.5	1657.2	2628.8	cps
Rho		1.7100	2.5900	1.3800	g/cc
Pe			2.5700	1.5500	

Rib Angle	: 43.8	Rib Slope	: 0.961	Density/Spine Ratio	: 0.569
Spine Angle	: 73.8	Spine Slope	: 3.453	Spine Intercept	: -18.1

Caliper

	Readings	Reference
Low Ref	4.0	8.5
High Ref	5.9	15.0
	Gain: 3.4	Offset: -4.9

Compensated Neutron Calibration Report

Serial Number: 070808
Tool Model: Probe

PRE-SURVEY VERIFICATION

Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu

POST-SURVEY VERIFICATION

Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu

Gamma Ray Calibration Report

Serial Number:	070559	
Tool Model:	OPEN_GR	
Performed:	Tue May 22 19:38:45 2012	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.3000	GAPI/cps