



SUPERIOR
Hays,
Kansas

COMPENSATED
DENSITY / NEUTRON
LOG

Company	MAI OIL OPERATIONS, INC.		
Well	LOUIE #8		
Field	HALL - GURNEY		
County	RUSSELL	State	KANSAS
Location:	API # : 15-167-23711-0000		Other Services
	2310' FSL & 1575' FVL		DIL/MEL
	W/2 - NW - NE - SW		
	SEC 34	TWP 14S	RGE 14W
Permanent Datum	GROUND LEVEL	Elevation	1716
Log Measured From	KELLY BUSING 9' A.G.L.		
Drilling Measured From	KELLY BUSHING	Elevation	K.B. 1725 D.F. 1723 G.L. 1716
Date	5/22/11		
Run Number	ONE		
Depth Driller	3225		
Depth Logger	3226		
Bottom Logged Interval	3202		
Top Log Interval	2200		
Casing Driller	8 5/8"@412'		
Casing Logger	414		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 6,000 PPM	
Density / Viscosity	9.3/5.1		
pH / Fluid Loss	10.5/9.6		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	.600@88F		
Rmf @ Meas. Temp	.450@88F		
Rmc @ Meas. Temp	.720@88F		
Source of Rmf / Rmc	MEASUREMENT		
Rim @ BHT	.484@109F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	3:45 A.M.		
Maximum Recorded Temperature	109F		
Equipment Number	0836		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	JOSH AUSTIN		

<<< Fold Here >>>

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. 6S. OF I-70 ON HWY 281 TO "WALTERS RD.", 1W., 1/2 N. TO "T", 1/4 E. INTO, FOLLOW
LEASE RD, E. & N. & E. PAST 2 PUMPING UNITS

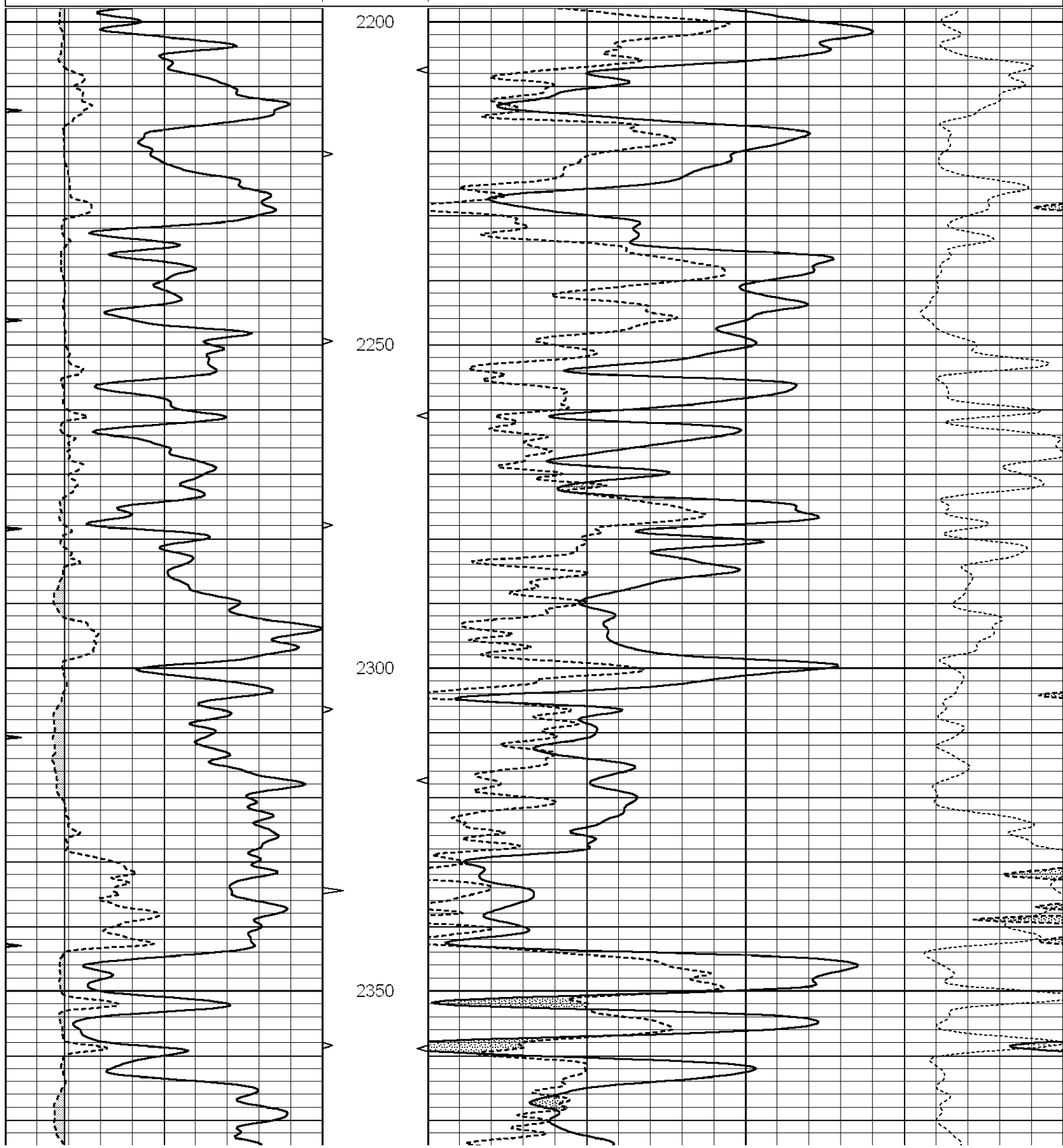


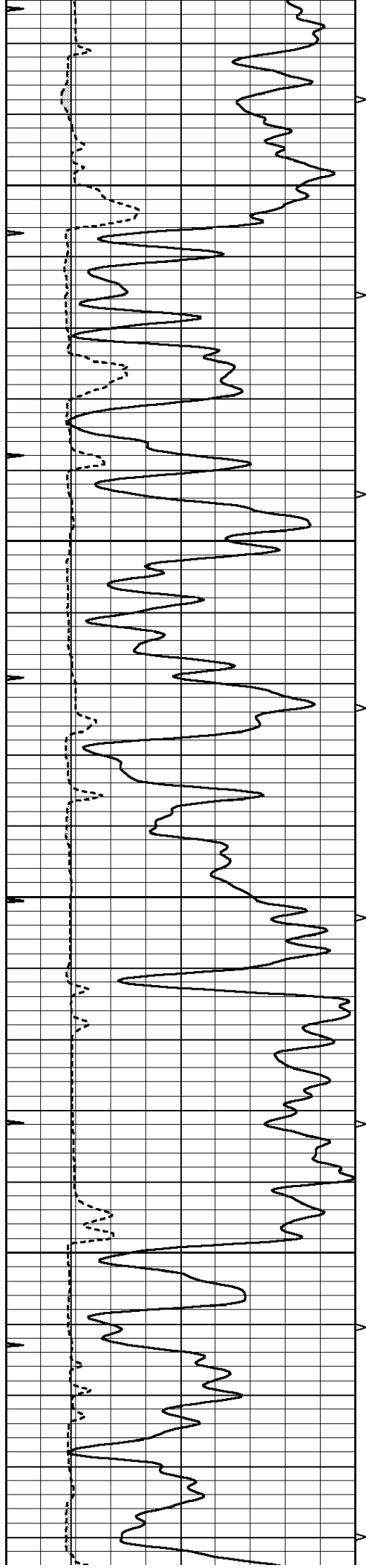
SUPERIOR
Hays,
Kansas

MAIN SECTION

Database File: 006957ddn.db
Dataset Pathname: pass3.11
Presentation Format: den_neu
Dataset Creation: Sun May 22 05:16:20 2011
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		



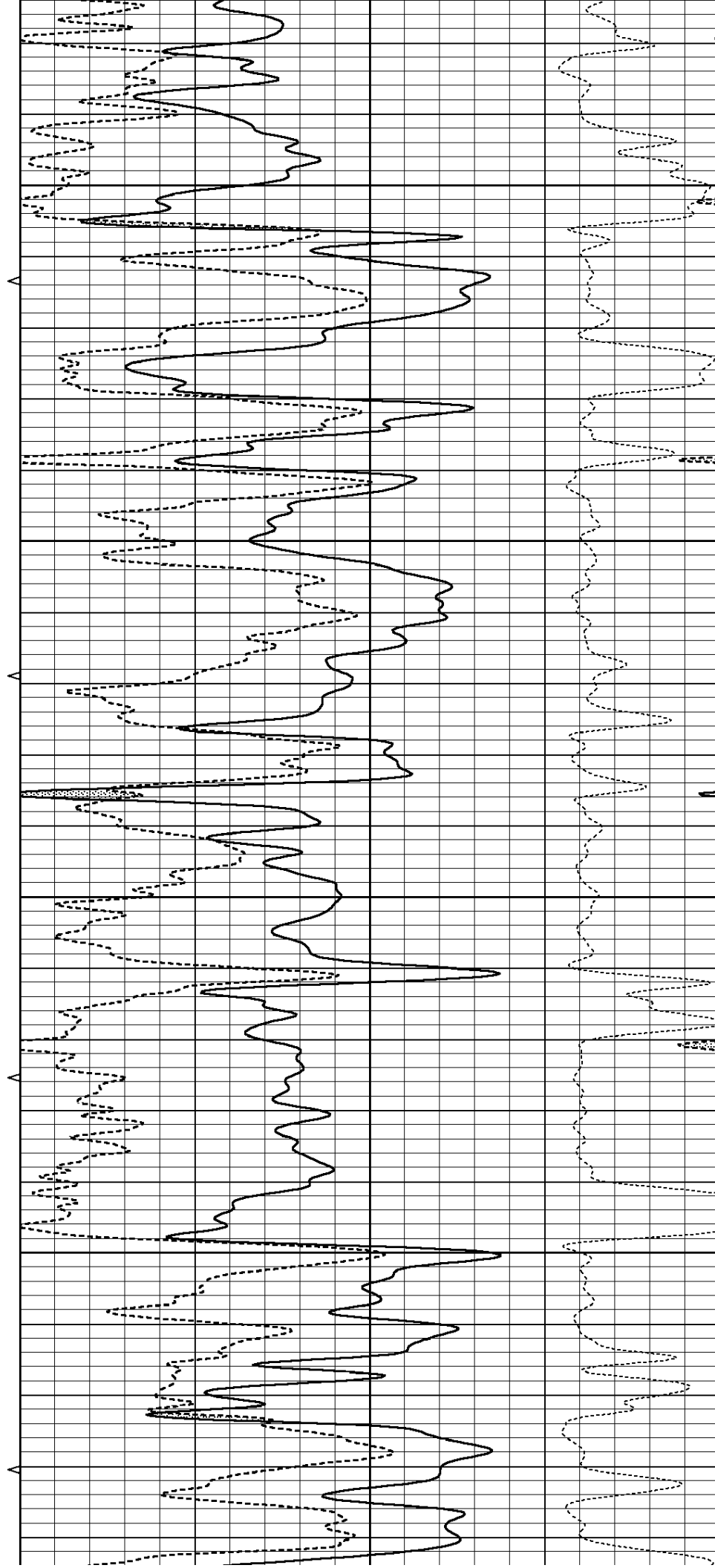


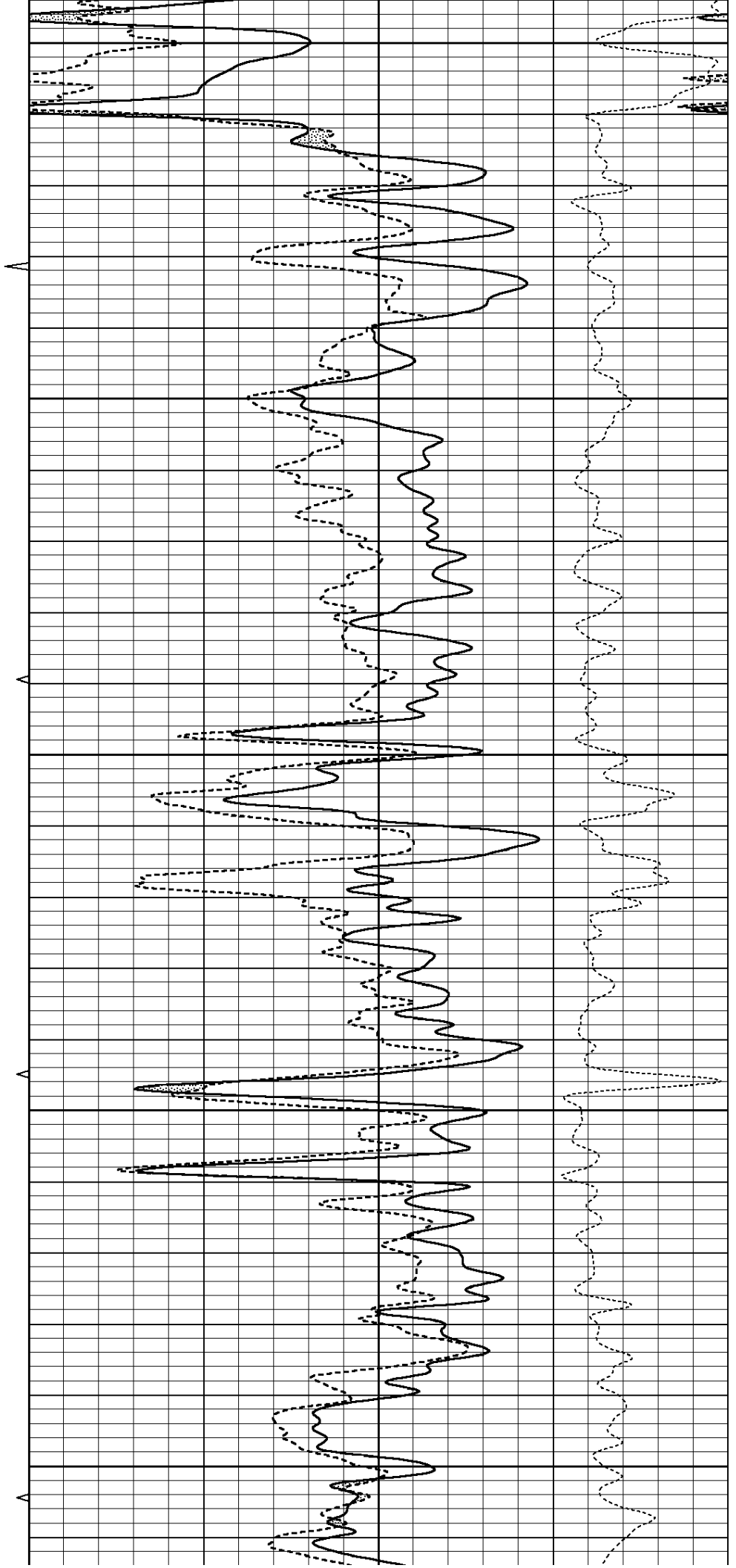
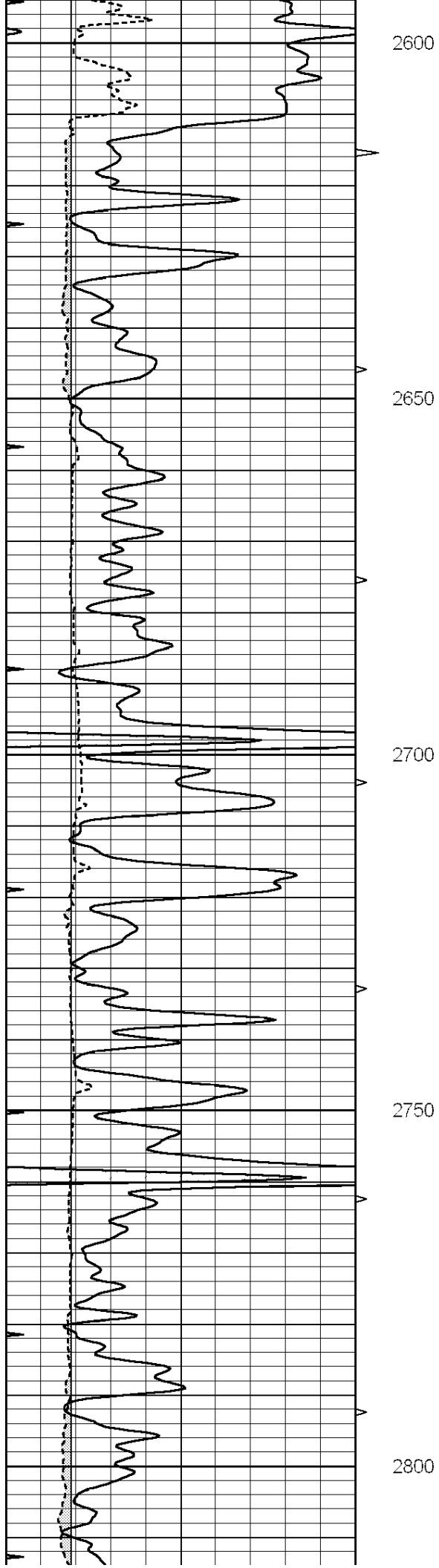
2400

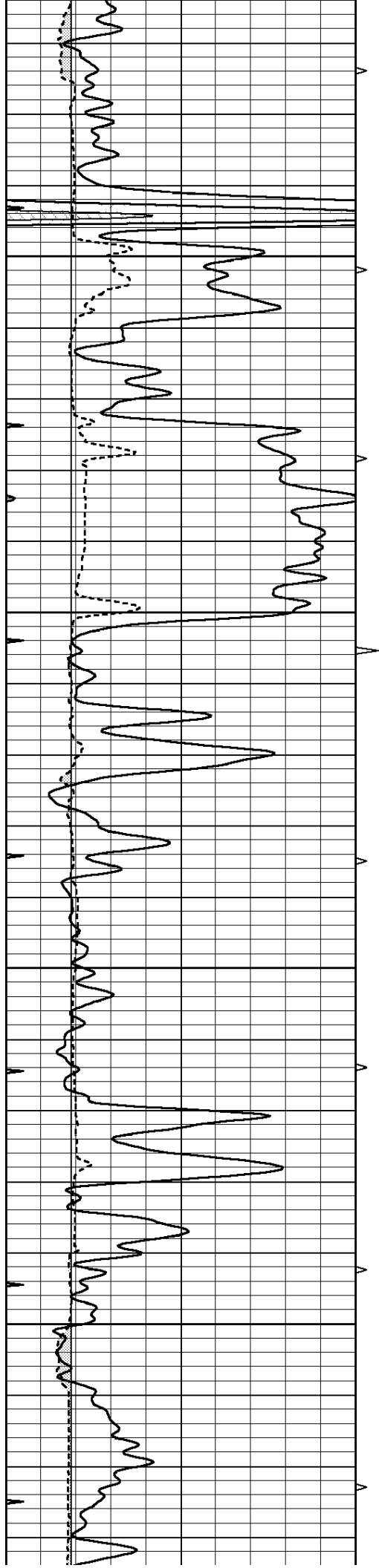
2450

2500

2550





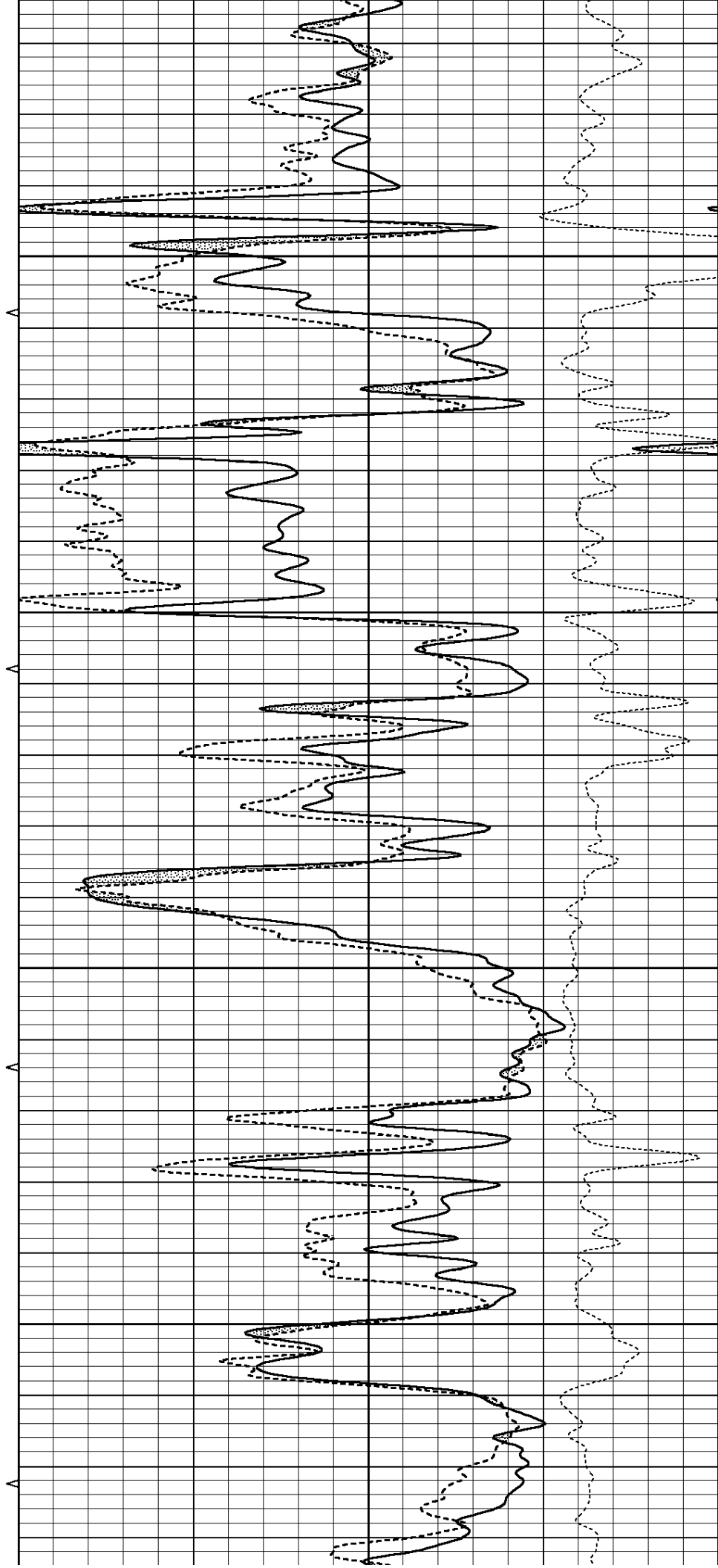


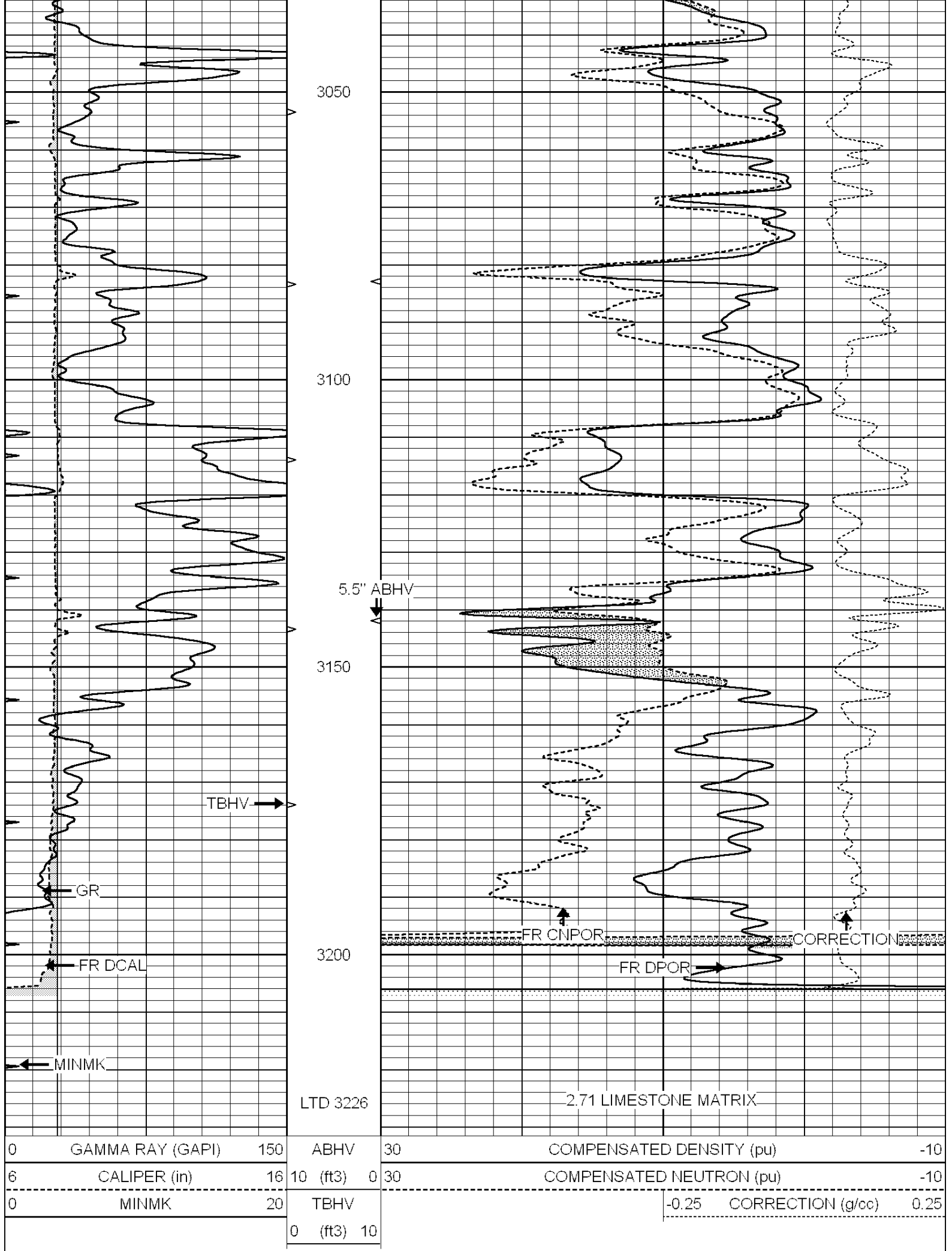
2850

2900

2950

3000





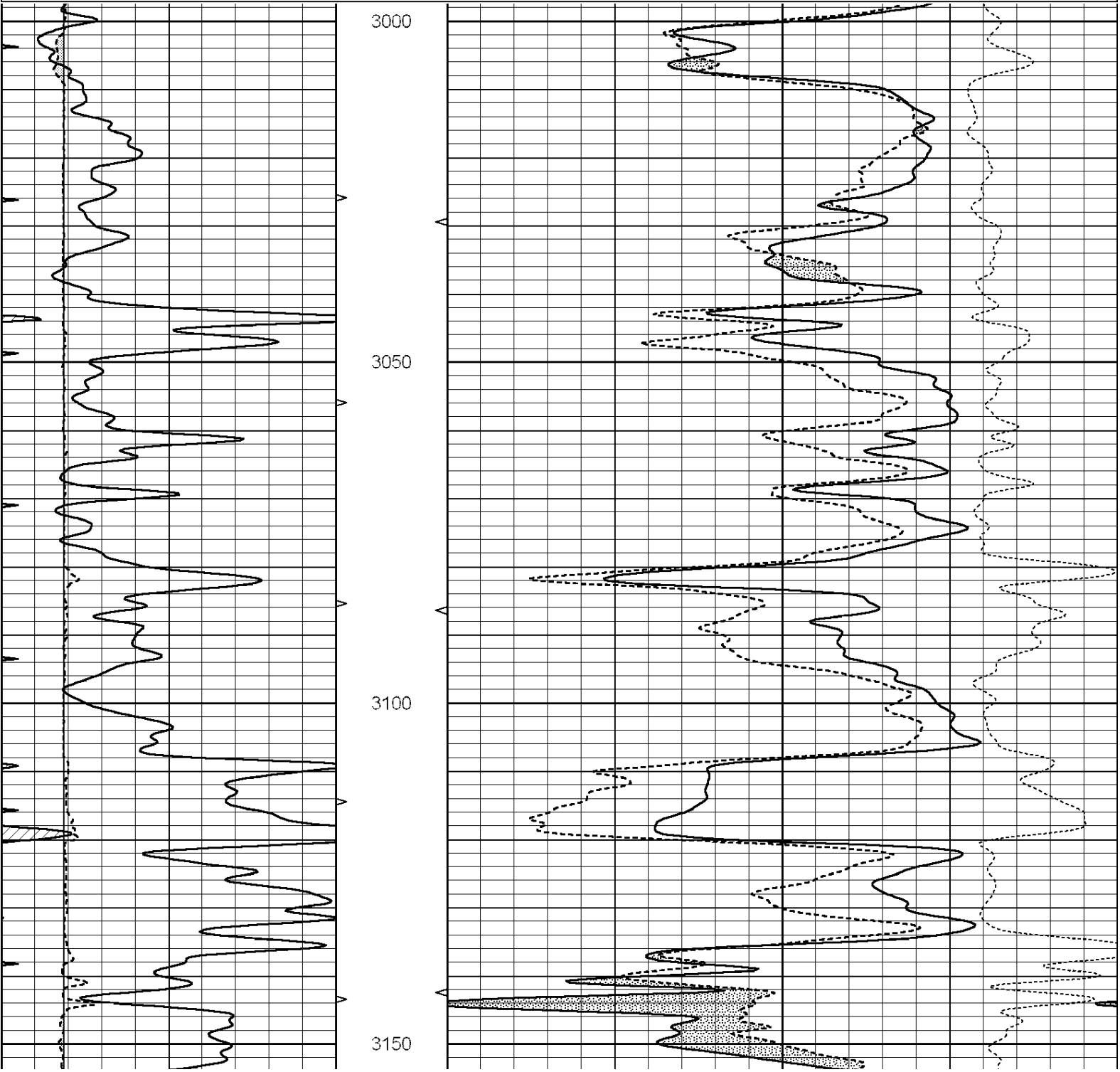


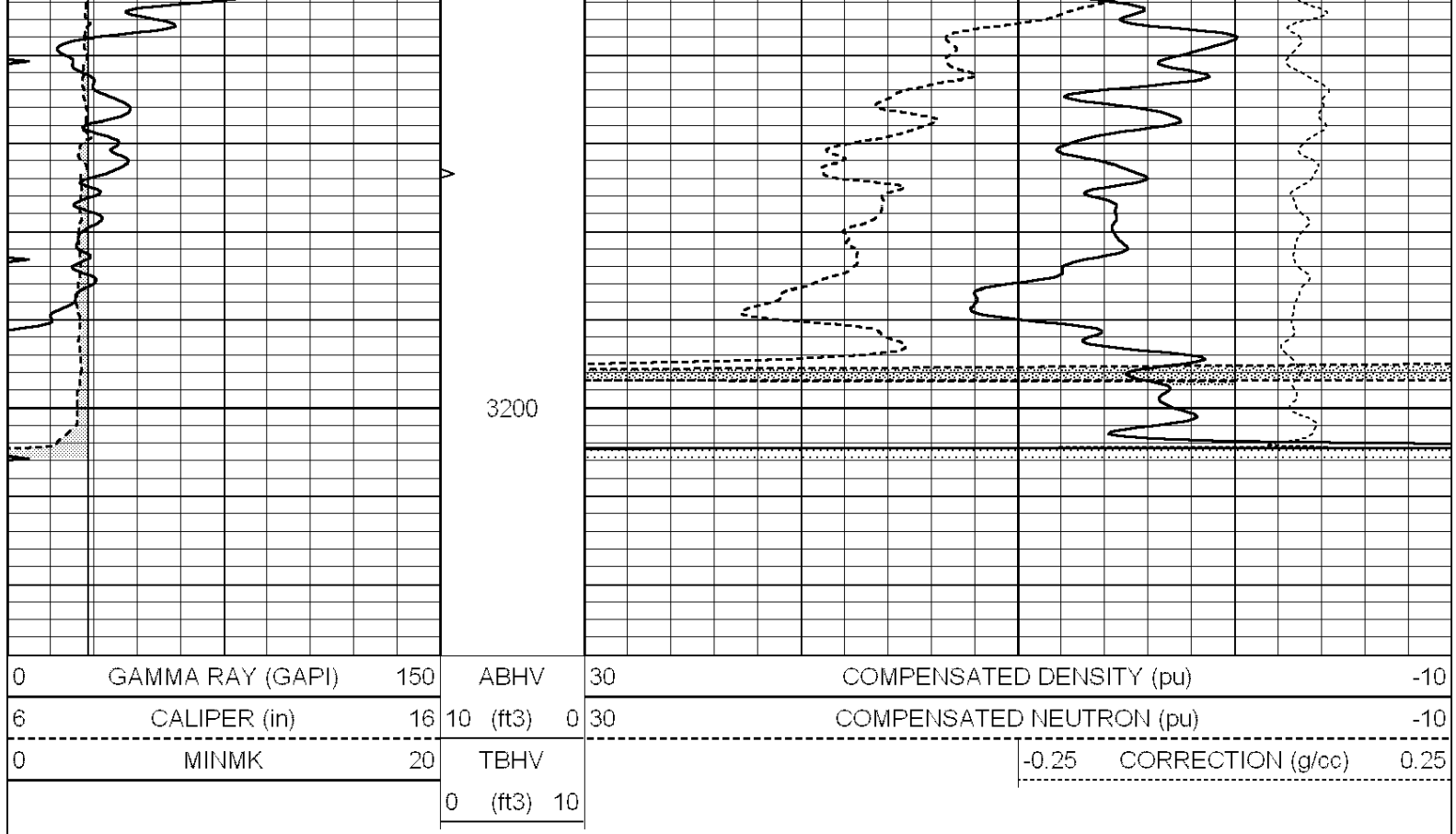
SUPERIOR
Hays,
Kansas

REPEAT SECTION

Database File: 006957ddn.db
Dataset Pathname: pass2.6
Presentation Format: den_neu
Dataset Creation: Sun May 22 05:06:53 2011 by Calc Open-Cased 090629
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	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV		-0.25	CORRECTION (g/cc) 0.25
			0 (ft3)	10		





Calibration Report

Database File: 006957ddn.db
 Dataset Pathname: pass3.11
 Dataset Creation: Sun May 22 05:16:20 2011

Dual Induction Calibration Report

Serial-Model: DIL3-GEAR
 Performed: Sat May 14 19:28:43 2011

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.011	0.656	V	0.000	400.000	mmho/m	640.000	0.000
Medium	0.013	0.740	V	0.000	462.500	mmho/m	700.000	-14.000
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: 003N Model: PRB
 Performed Tue Sep 08 14:14:44 2009

Litho Density Calibration

	Background	Magnesium	Aluminum	Sandstone	
Window 1	2042.6	12312.8	4225.8	13758.4	cps
Window 2	1855.8	10134.7	3624.2	11113.1	cps
Window 3	1639.4	6760.2	2716.3	7260.3	cps
Window 4	466.4	469.2	466.1	476.5	cps
Long Space	0.0	8278.9	1768.4	9257.4	cps
Short Space	2.2	2377.3	1544.1	2574.2	cps
Rho		1.7100	2.5900	1.3800	g/cc
			2.5700	1.5500	

Pe		2.5700		1.5500	
Rib Angle	: 44.4	Rib Slope	: 0.979	Density/Spine Ratio	: 0.549
Spine Angle	: 74.4	Spine Slope	: 3.577	Spine Intercept	: -18.8
Caliper					
	Readings	Reference			
Low Ref	2.1	6.9			
High Ref	4.4	14.0			
	Gain: 3.1	Offset: 0.5			
Compensated Neutron Calibration Report					
		Serial Number:		NEU_4I	
		Tool Model:		G	
CALIBRATION					
	Detector	Readings		Target	
				Normalization	
	Short Space	996.00	cps	1000.00	cps 1.0000
	Long Space	977.00	cps	1000.00	cps 1.0000
Gamma Ray Calibration Report					
Serial Number:		GR4			
Tool Model:		OPEN			
Performed:		Sun May 22 03:02:25 2011			
Calibrator Value:		200.0	GAPI		
Background Reading:		0.0	cps		
Calibrator Reading:		189.0	cps		
Sensitivity:		1.5000	GAPI/cps		