



SUPERIOR
Hays,
Kansas

DUAL
INDUCTION
LOG

Company		MULL DRILLING CO. INC.	
Well		#1-14 BENTLEY TRUST	
Field			
County		GOVE	
State		KANSAS	
Company		MULL DRILLING COMPANY, INC.	
Well		#1-14 BENTLEY TRUST	
Field			
County		GOVE	
State		KANSAS	
Location:		API # : 15-063-21760-0000	
SEC 14 TWP 15S RGE 28W		CDL/CNL MEL/SONIC	
Permanent Datum		GROUND LEVEL	
Log Measured From		KELLY BUSHING 9' A.G.L.	
Drilling Measured From		KELLY BUSHING	
Elevation		2474	
K.B. 2483			
D.F. 2474			
G.L. 2474			
Date	10 JAN 09		
Run Number	ONE		
Depth Driller	4350		
Depth Logger	4356		
Bottom Logged Interval	4354		
Top Log Interval	0		
Casing Driller	8 5/8 @ 217'		
Casing Logger	217		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.1/57		
pH / Fluid Loss	10.0/8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.70 @ 61		
Rmf @ Meas. Temp	1.27 @ 61		
Rmc @ Meas. Temp	2.04 @ 61		
Source of Rmf / Rmc	CAL/CAL		
Rm @ BHT	0.83 @ 118		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	0150		
Maximum Recorded Temperature	118		
Equipment Number	680		
Location	HAYS, KS		
Recorded By	DUGAN DENTON		
Witnessed By	KEVIN KESSLER		
JOE CRATHORNE			

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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.

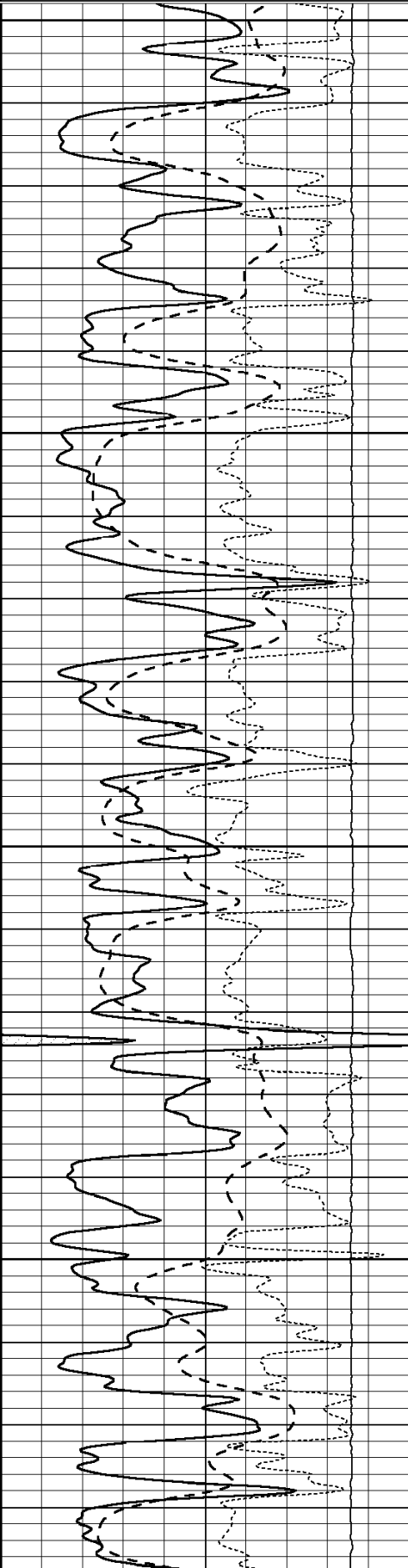
Comments

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

DIRECTIONS: JCT HWY 4 & PAWNEE RD.(CATHOUSE RD); 7 NORTH CROSS BRIDGE, WEST TO FARMHOUSE, SOUTH SIDE GO WEST 1/2 TO FARM YARD, FOLLOW ROAD ALONG SOUTH SIDE THRU OPEN GATE- FOLLOW TRAIL TO IMPLEMENT, TURN SOUTH ON EAST SIDE OF FENCE, FOLLOW TRAIL TO WELL. PS; CALL CO MAN IF LOST.

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
10000	LTEN (lb)	0

0.2	RLL3 (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000

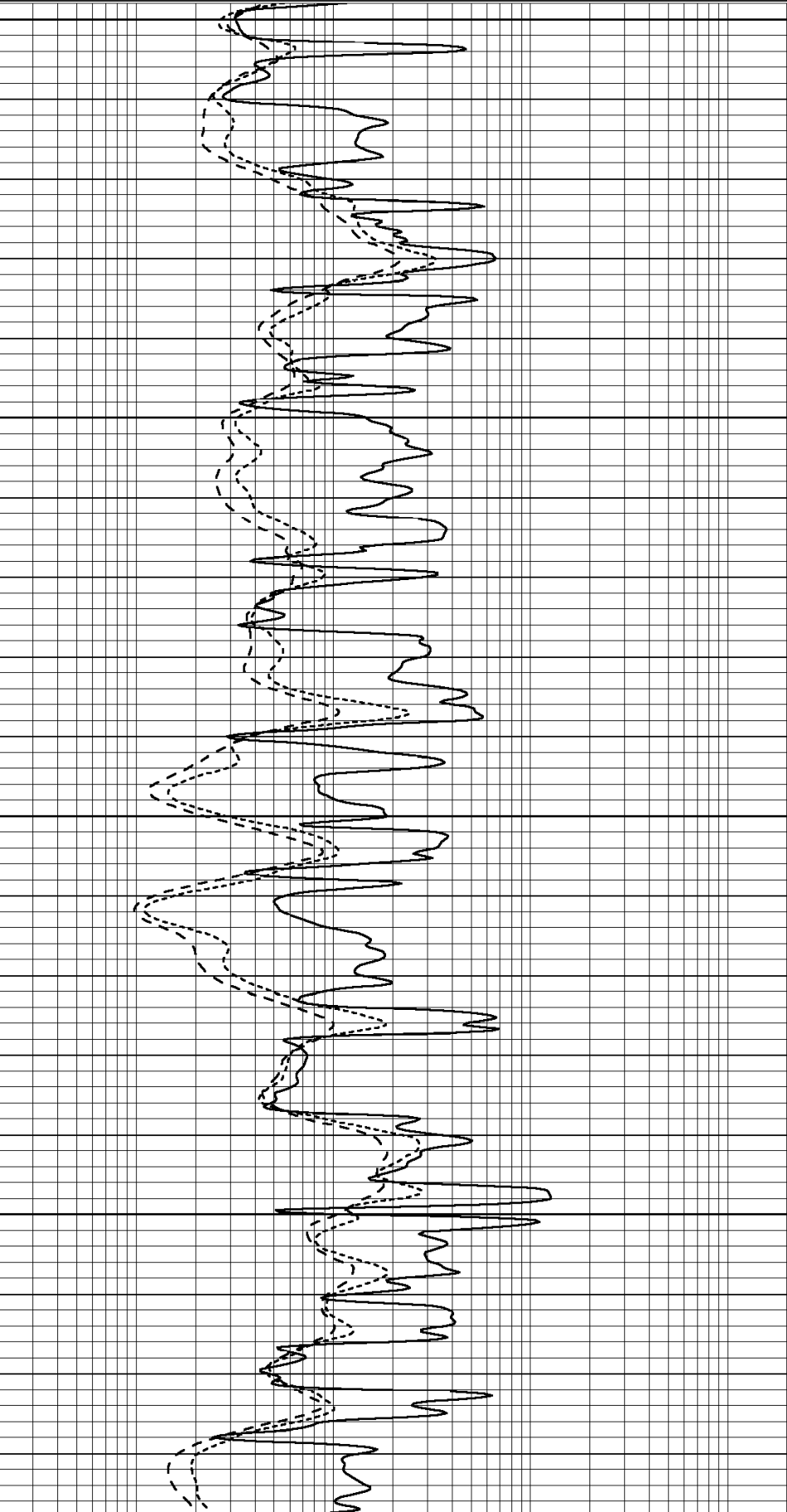


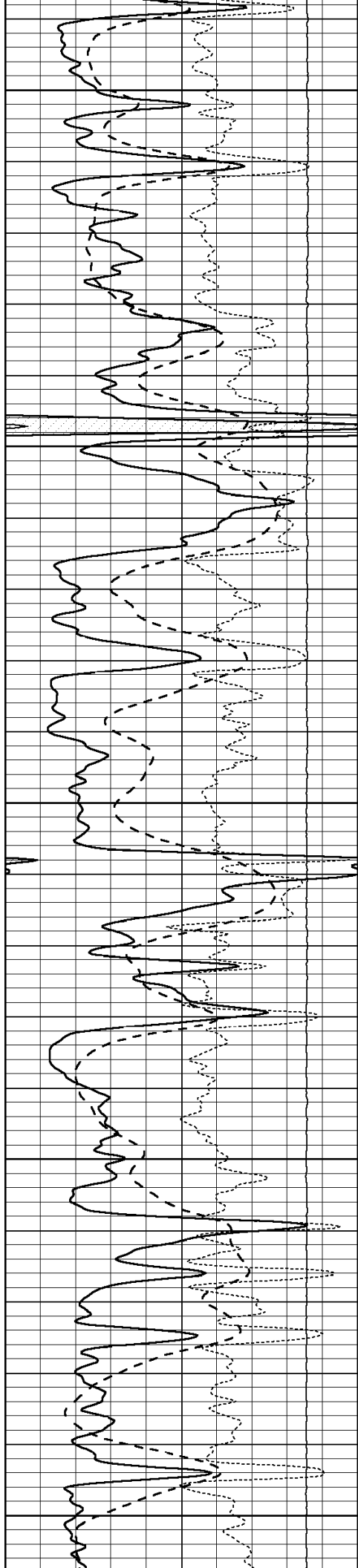
3400

3450

3500

3550





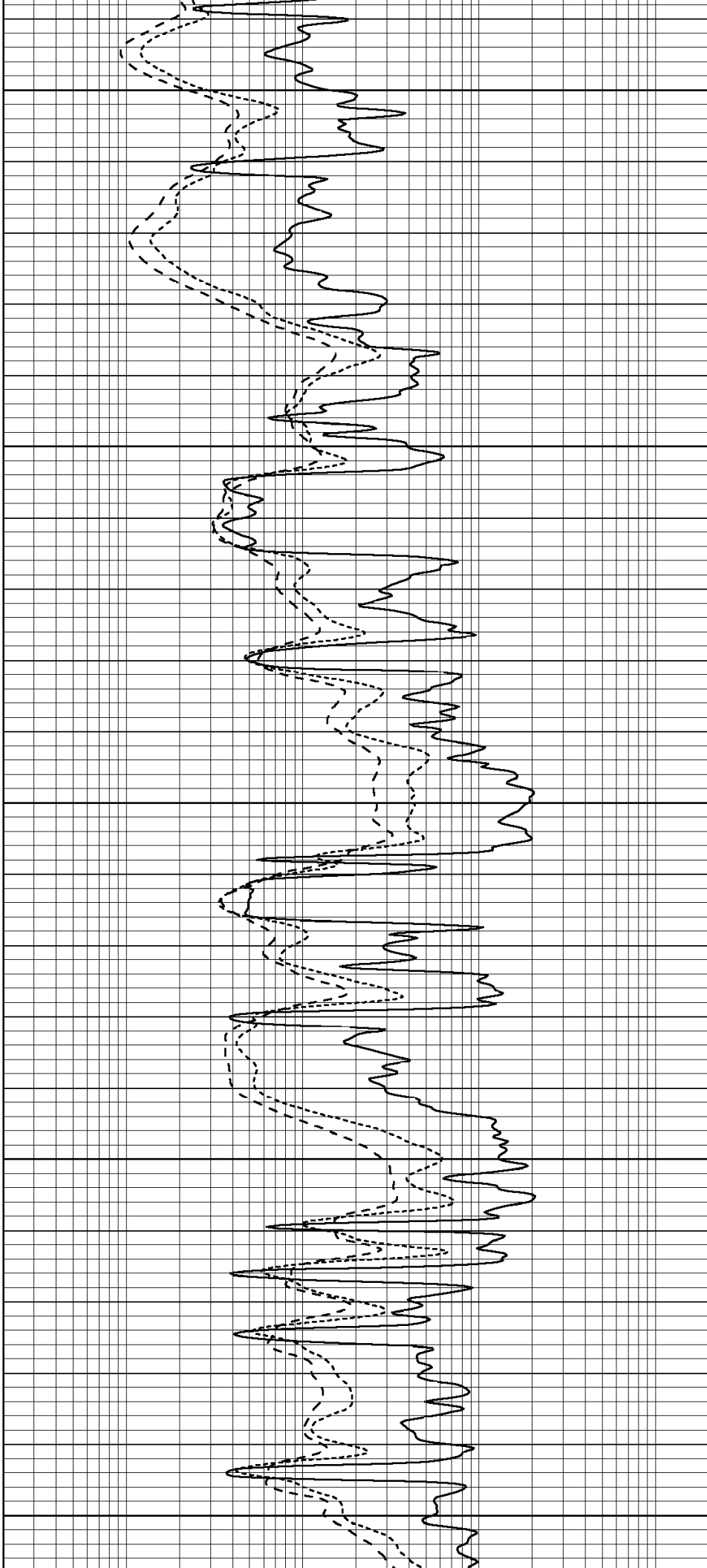
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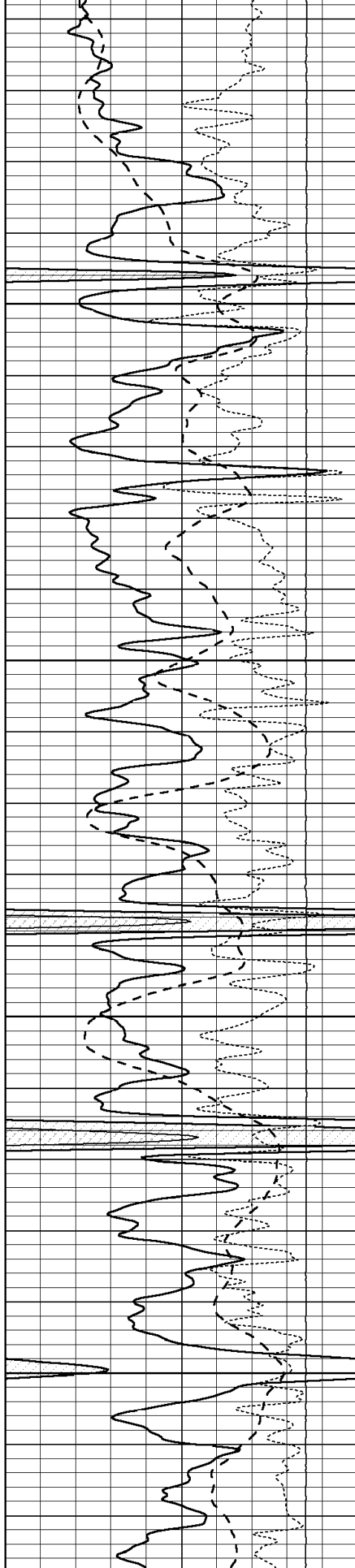
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3800



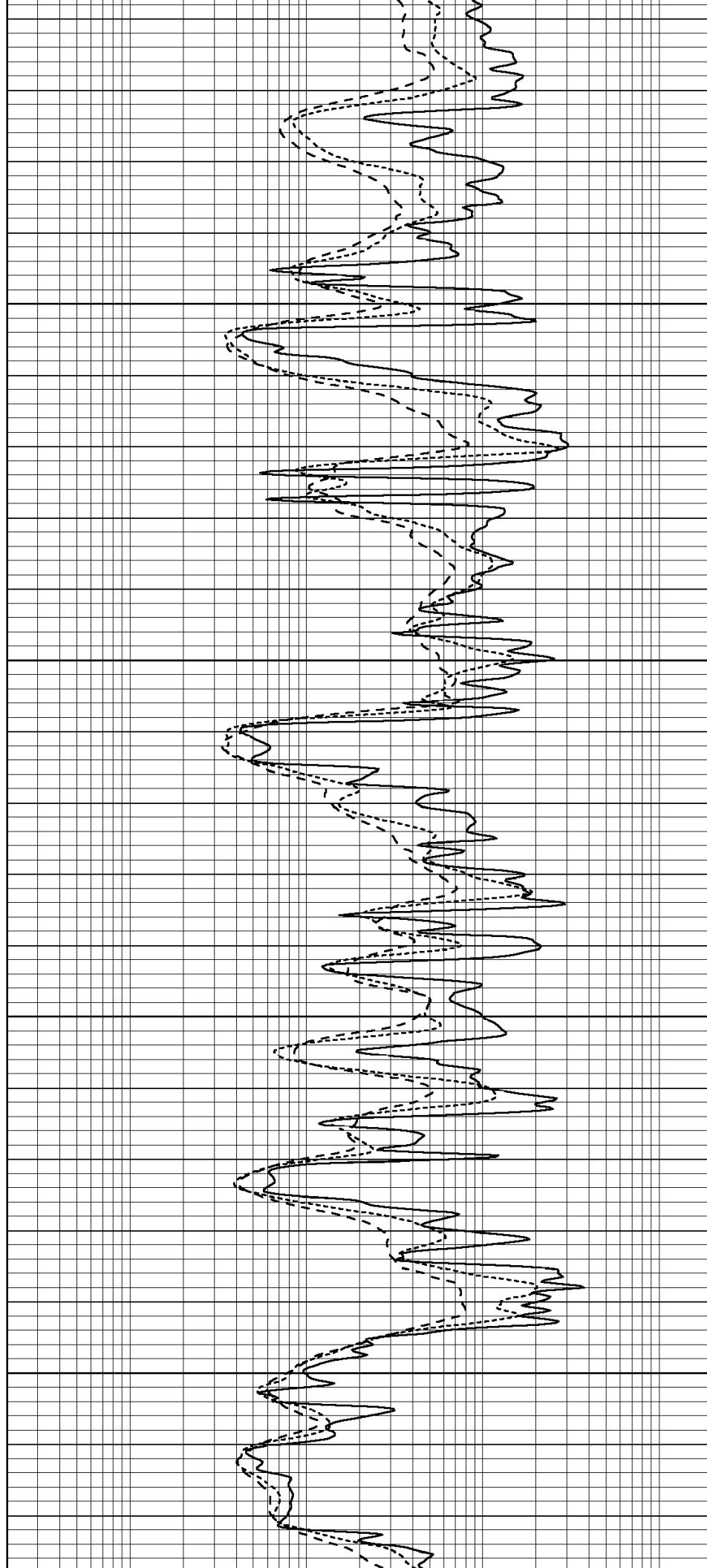


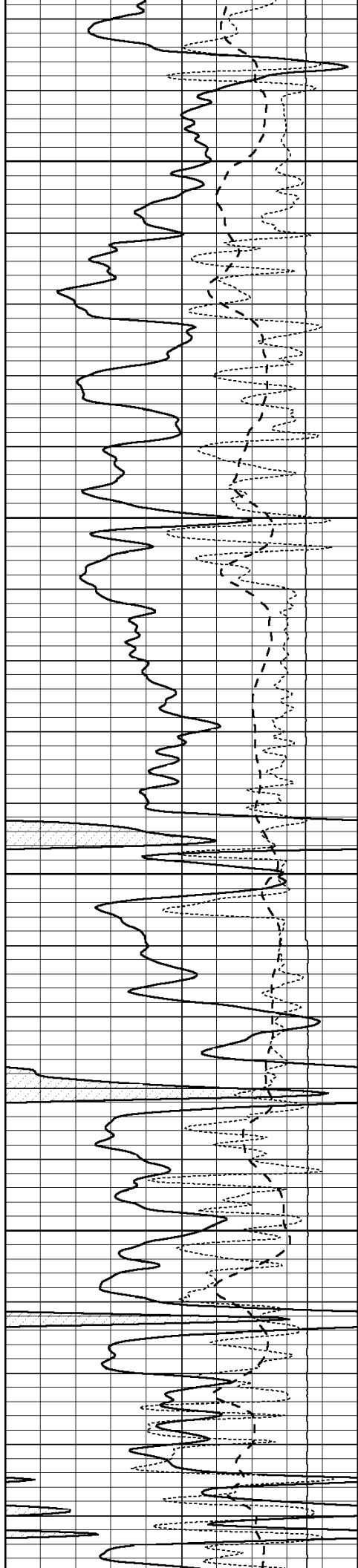
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3950

4000



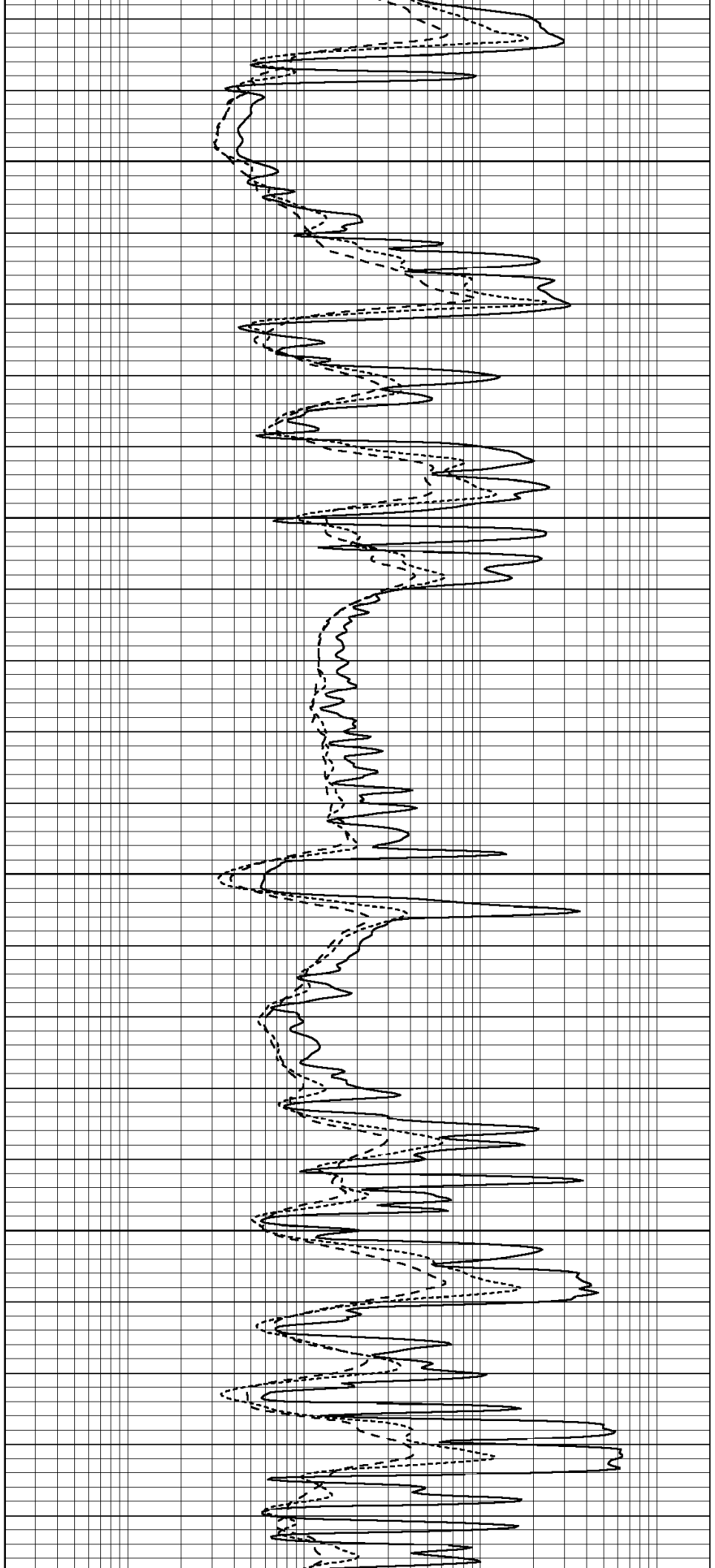


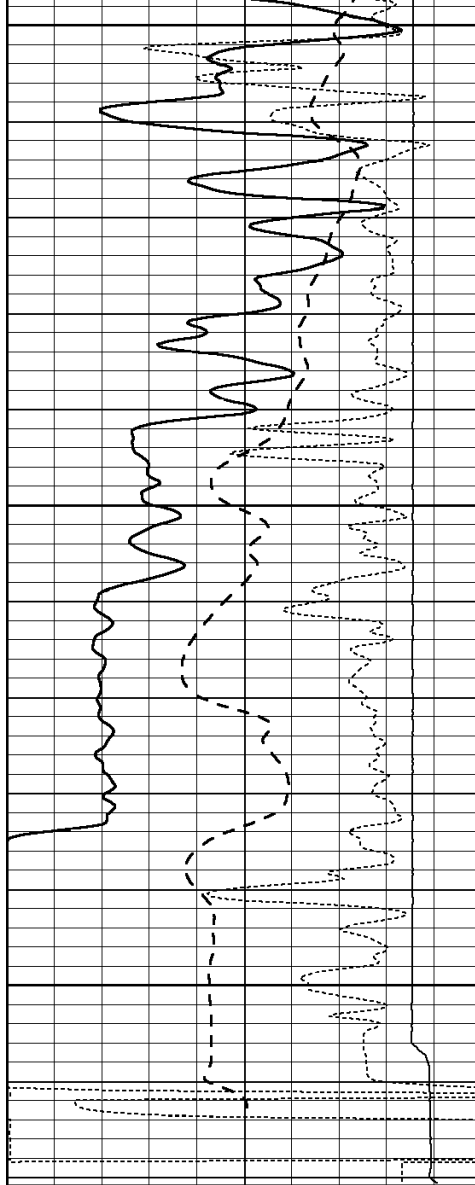
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4100

4150

4200



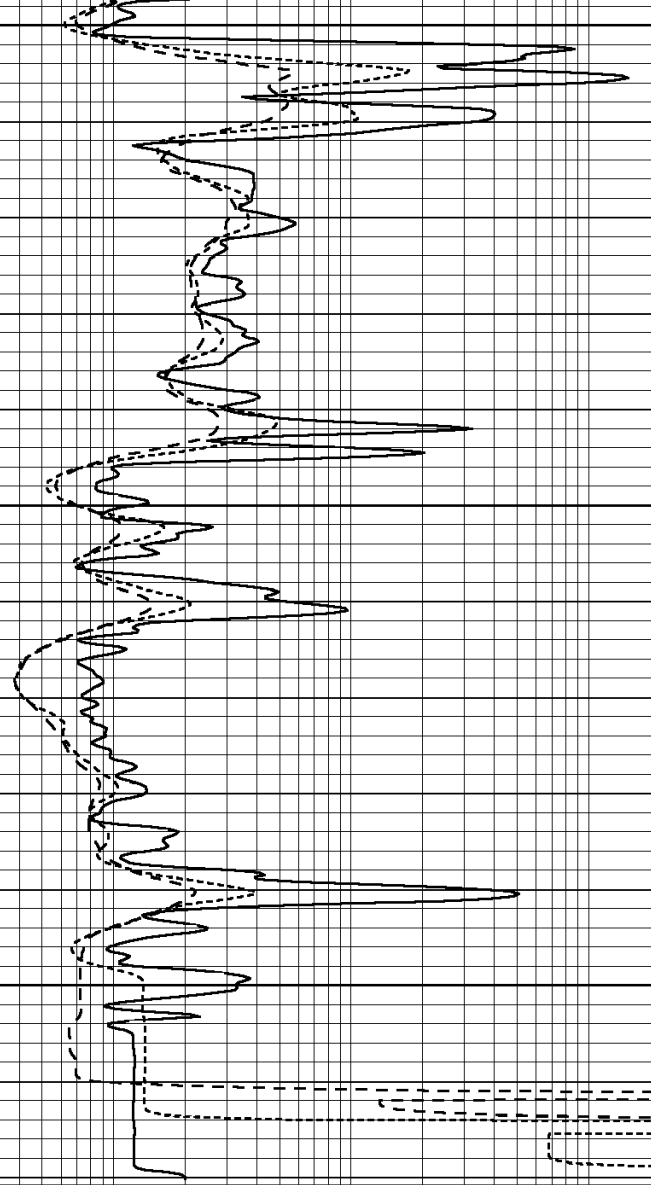


0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
10000	LTEN (lb)	0

4250

4300

4350



0.2	RLL3 (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000



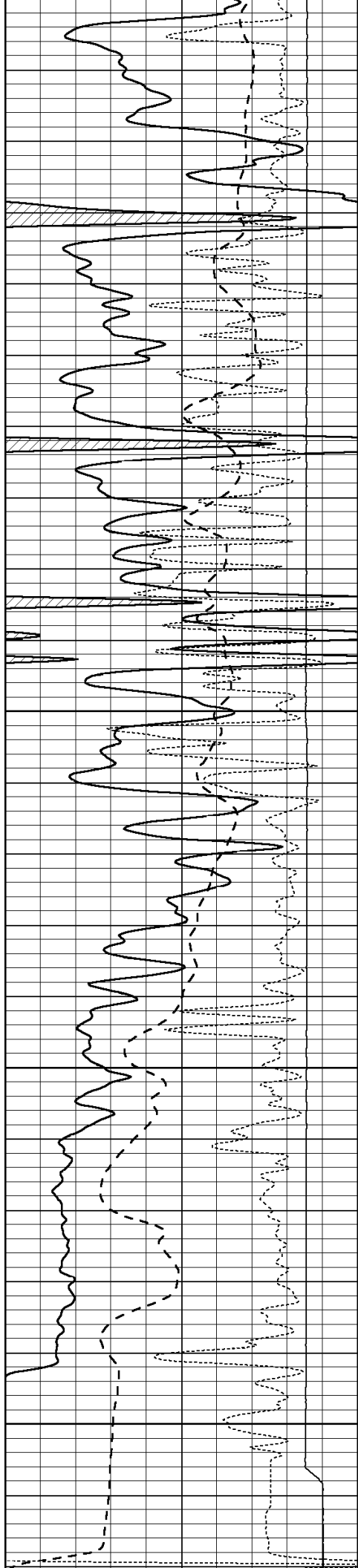
SUPERIOR
Hays,
Kansas

REPEAT SECTION

Database File: 3188mulldrill.db
 Dataset Pathname: pass2.3
 Presentation Format: _dil
 Dataset Creation: Sat Jan 10 02:18:52 2009 by Calc Open-Cased 070814
 Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
10000	LTEN (lb)	0

0.2	RLL3 (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000



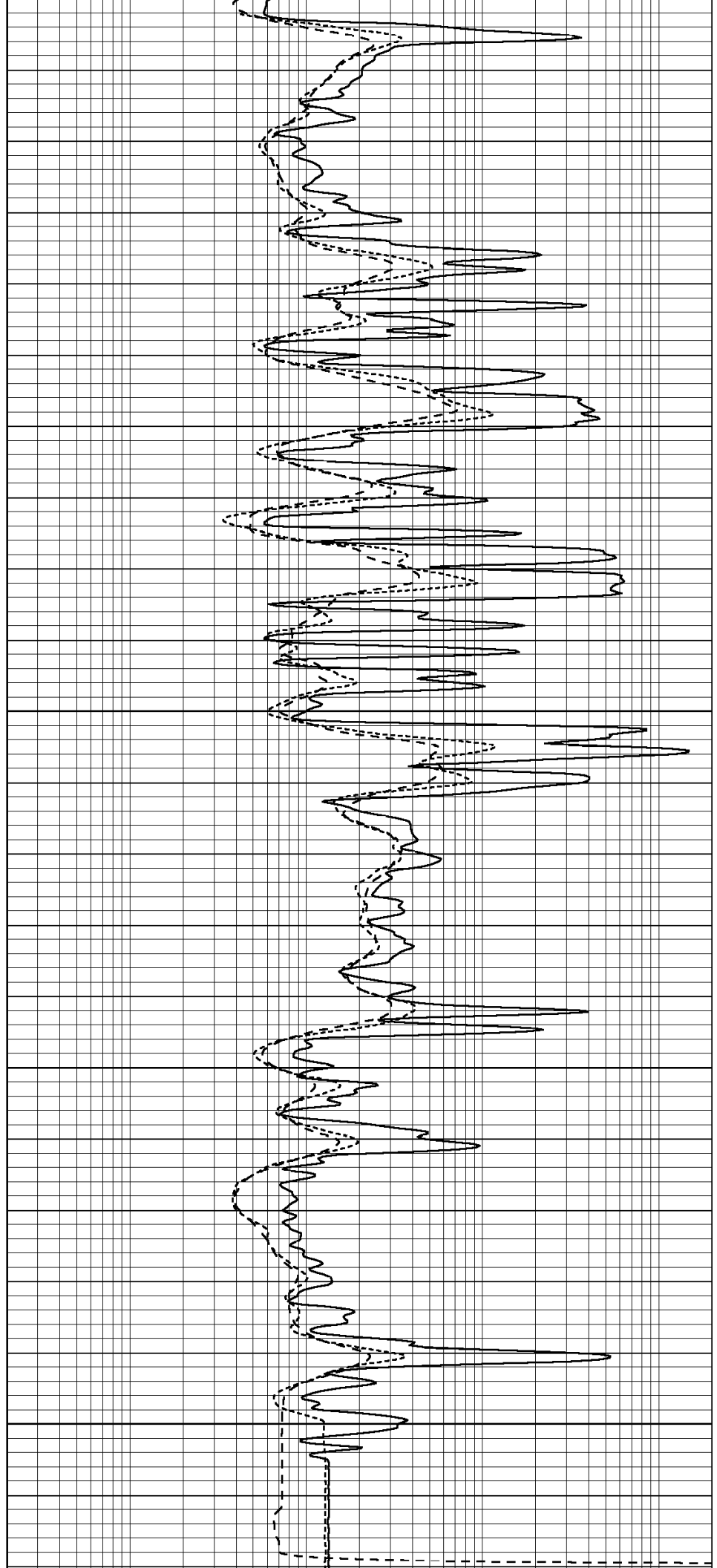
4150

4200

4250

4300

4350



0	GAMMA RAY (GAPI)	150	0.2	RLL3 (Ohm-m)	2000
-100	SP (mV)	100	0.2	DEEP INDUCTION (Ohm-m)	2000
-250	Rxo/Rt	50	0.2	MEDIUM INDUCTION (Ohm-m)	2000
10000	LTEN (lb)	0			

Calibration Report	
Database File:	3188mulldrill.db
Dataset Pathname:	pass2.3
Dataset Creation:	Sat Jan 10 02:18:52 2009 by Calc Open-Cased 070814

Dual Induction Calibration Report	
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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	605.128	-17.682
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	
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Serial-Model:	GEAR4-GEARHART
Source / Verifier:	143 / 143
Master Calibration Performed:	Tue Jan 22 15:45:39 2008

Master Calibration	
Density	Far Detector
	Near Detector

	Density			Far Detector		Near Detector	
Magnesium	1.710	g/cc		1358.55		649.93	cps
Aluminum	2.580	g/cc		302.11		449.52	cps
Spine Angle = 76.22				Density/Spine Ratio = 0.562			
	Size			Reading			
Small Ring	8.00	in		3.56	V		
Large Ring	14.00	in		6.65	V		

Compensated Neutron Calibration Report

Serial Number:	6I
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:	GR6	
Tool Model:	OPEN	
Performed:	Thu Jan 24 17:24:37 2008	
Calibrator Value:	150.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	350.0	cps
Sensitivity:	0.5586	GAPI/cps