



COMPENSATED DENSITY/NEUTRON LOG

Company	EAGLE CREEK CORPORATION	Company	EAGLE CREEK CORPORATION
Well	JOHNSON-RAPIER #1-24	Well	JOHNSON-RAPIER #1-24
Field	WILDCAT	Field	WILDCAT
County	WICHITA	County	WICHITA
State	KANSAS	State	KANSAS
Location:	API # : 15-203-20320-00-00 1929' FSL & 2846' FEL	Other Services DIL/MEL	
Permanent Datum	SEC 24 TWP 20S RGE 35W	Elevation	
Log Measured From	GROUND LEVEL	K.B. 3146	
Drilling Measured From	KELLY BUSHING 5' A.G.L. KELLY BUSHING	D.F. 3144	
		G.L. 3141	
Date	07/18/17		
Run Number	ONE		
Depth Driller	4700		
Depth Logger	4702		
Bottom Logged Interval	4678		
Top Log Interval	3700		
Casing Driller	@ 220		
Casing Logger	220		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 6200 PPM	
Density / Viscosity	9.3/59		
pH / Fluid Loss	10.0/9.6		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.40@80		
Rmt @ Meas. Temp	.30@80		
Rmc @ Meas. Temp	.48@80		
Source of Rmt / Rmc	MEASURED		
Rm @ BHT	.26@122		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	///		
Maximum Recorded Temperature	112F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	GUS PFANENSTIEL		
Witnessed By	ROCKY MILFORD		

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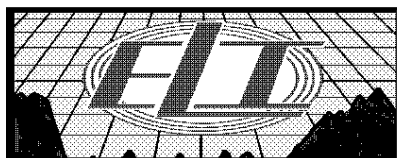
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 ELI WIRELINE, HAYS, KS. (785) 628-6395

DIRECTIONS

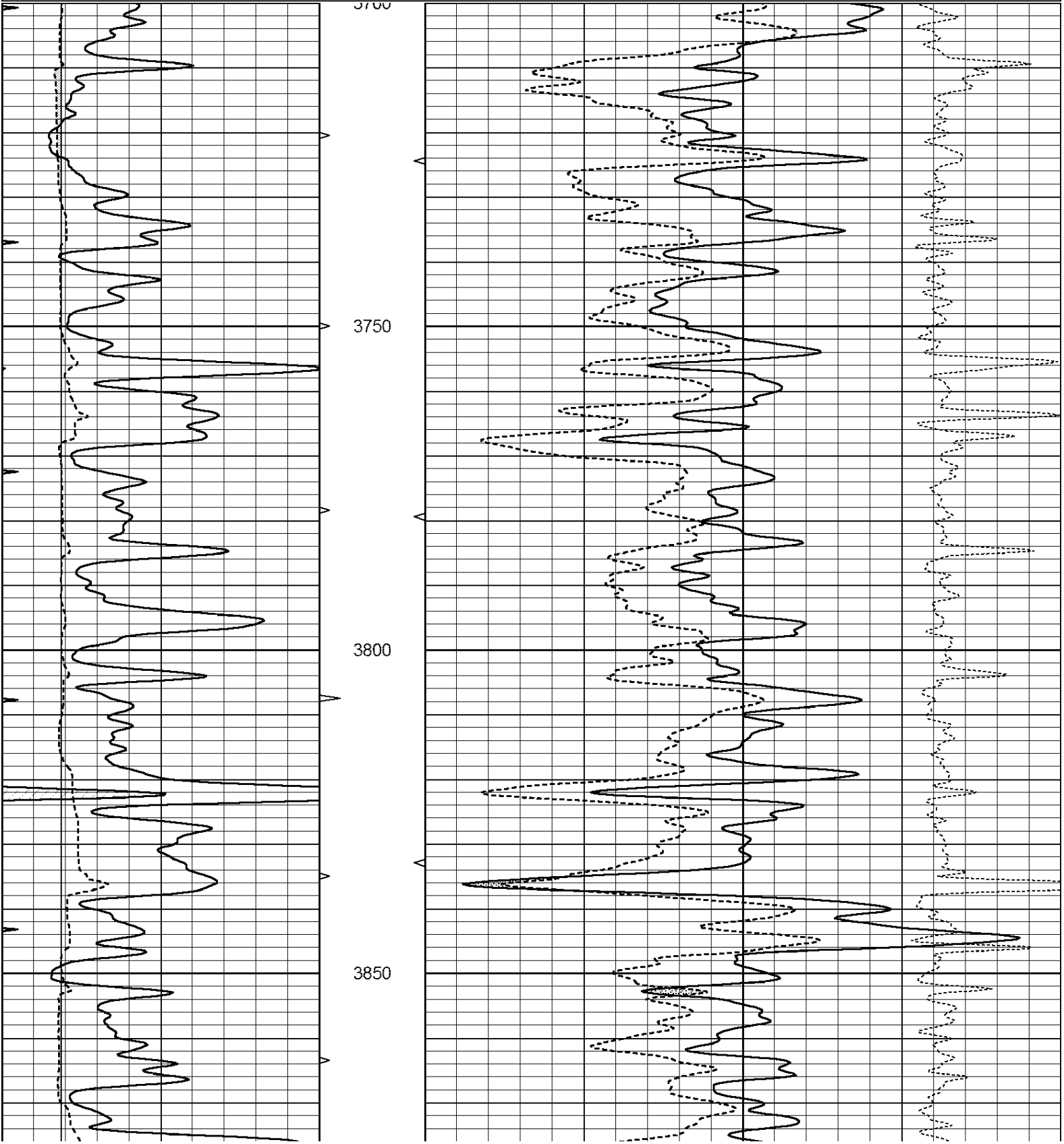
INTERSECTION OF HW 96 AND HW 83 IN SCOTT CITY,
12 W TO COUNTY LINE, S 13 MILES TO CC RD.,
1/2 W, NORTH INTO.

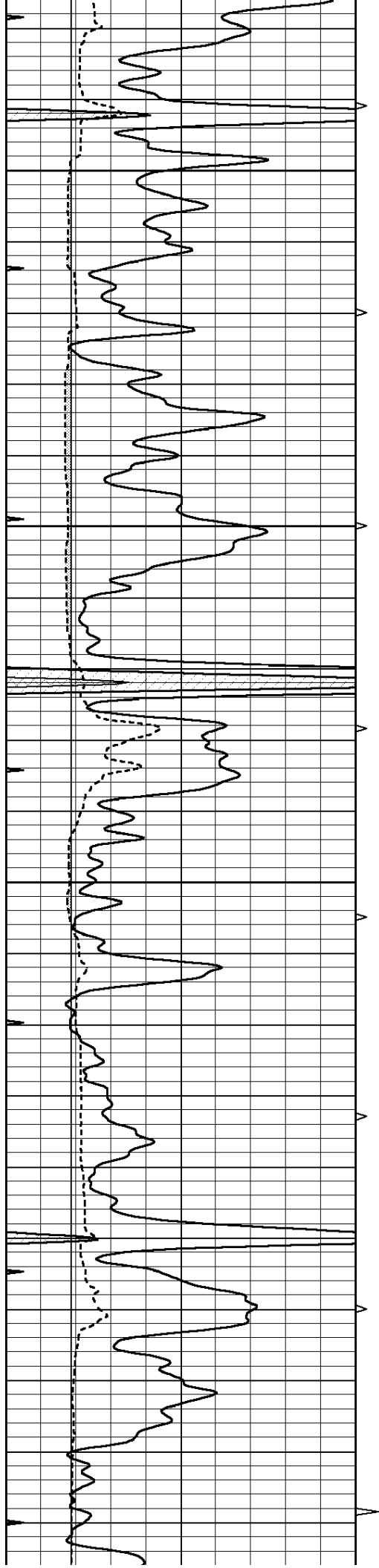


MAIN PASS

Database File: 1805ddn.db
Dataset Pathname: pass3M
Presentation Format: den_neu
Dataset Creation: Tue Jul 18 04:54:42 2017
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		



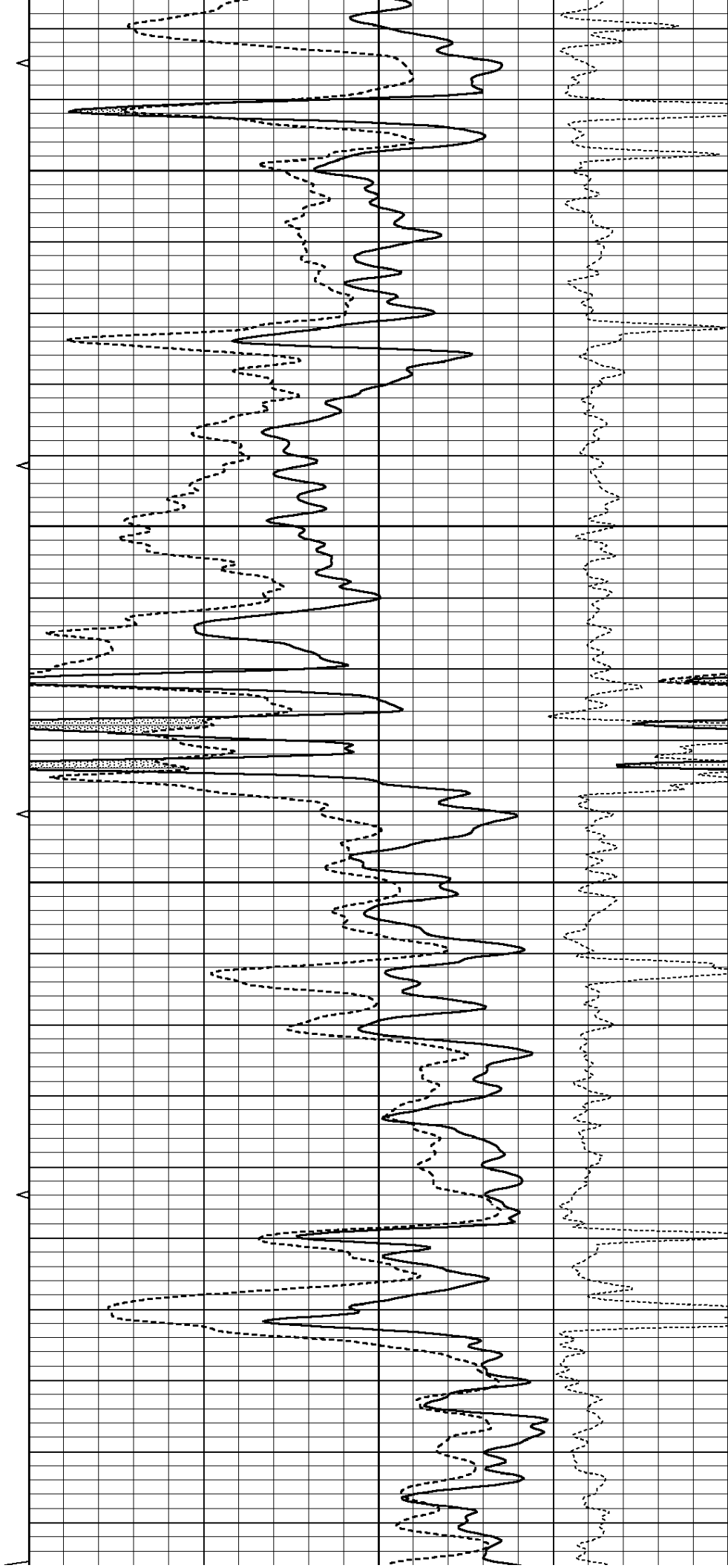


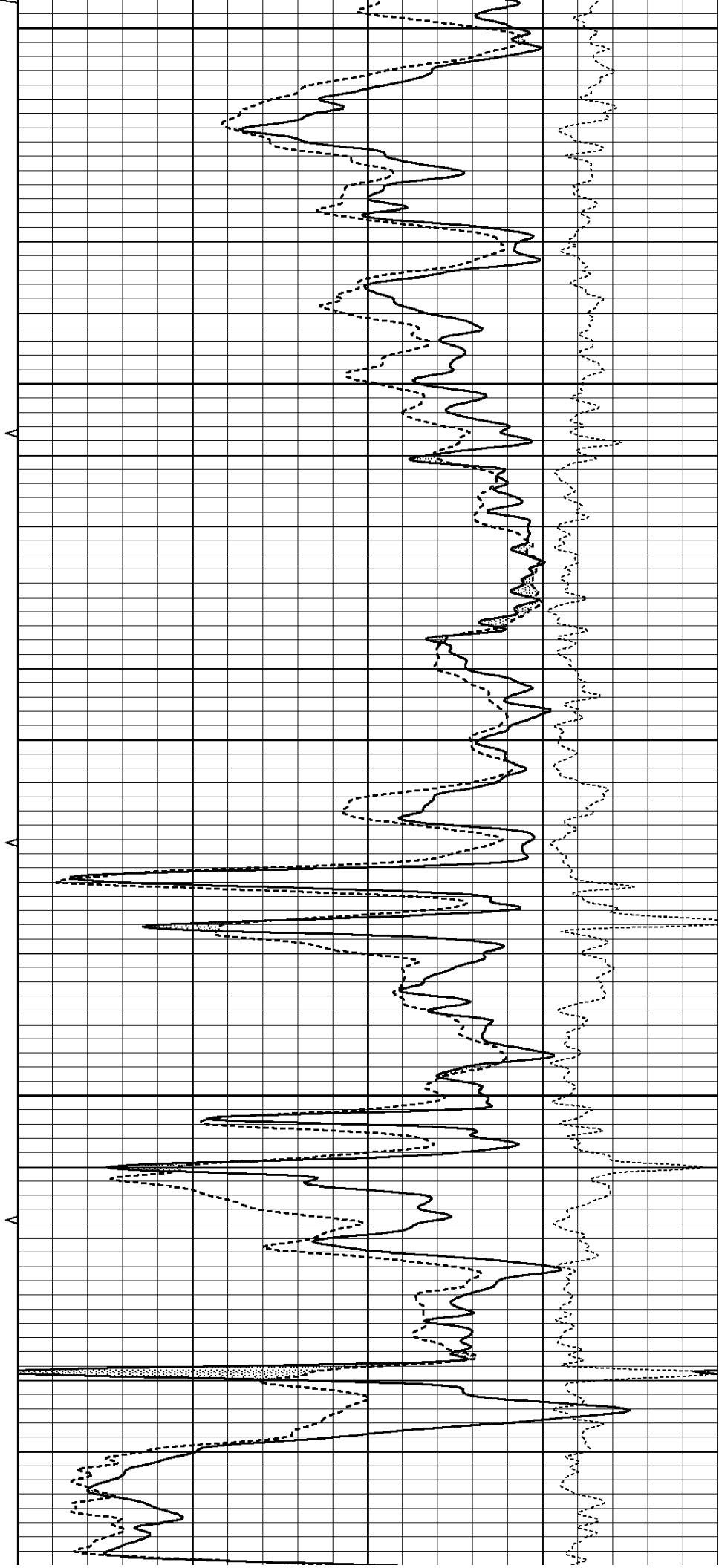
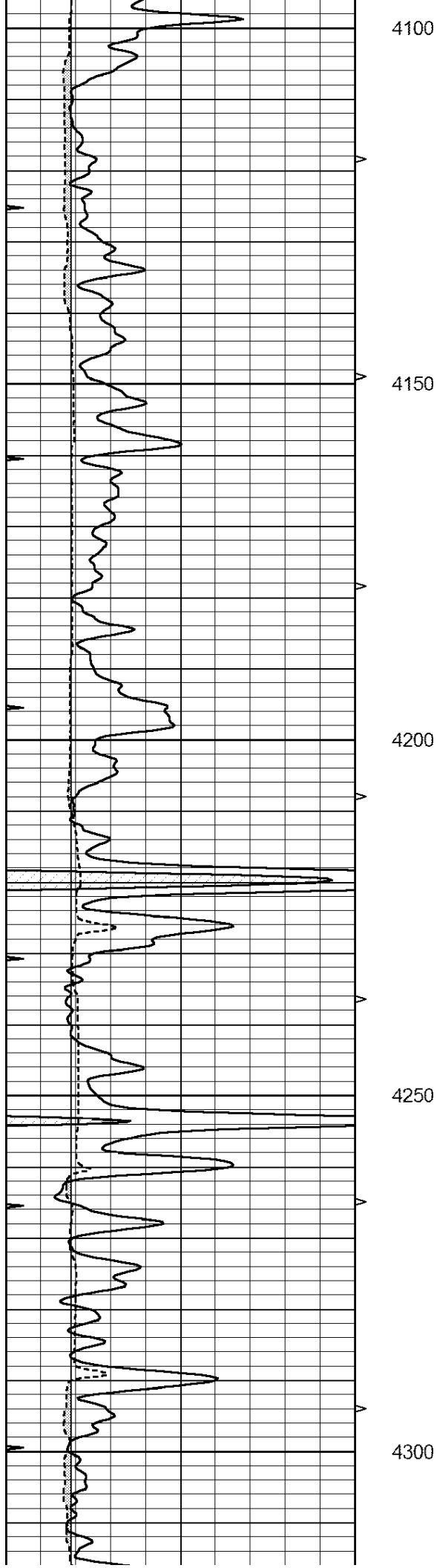
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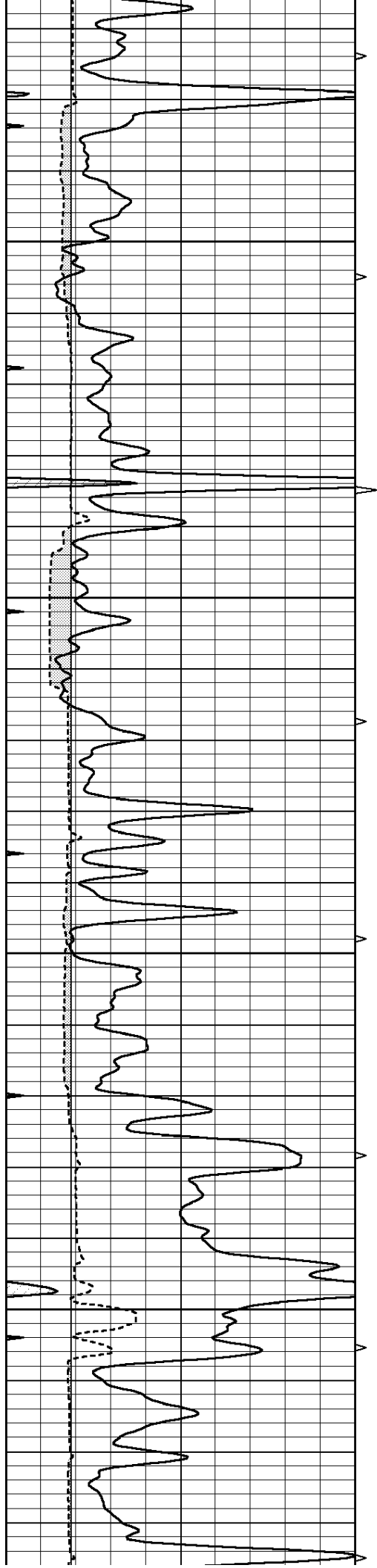
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4000

4050





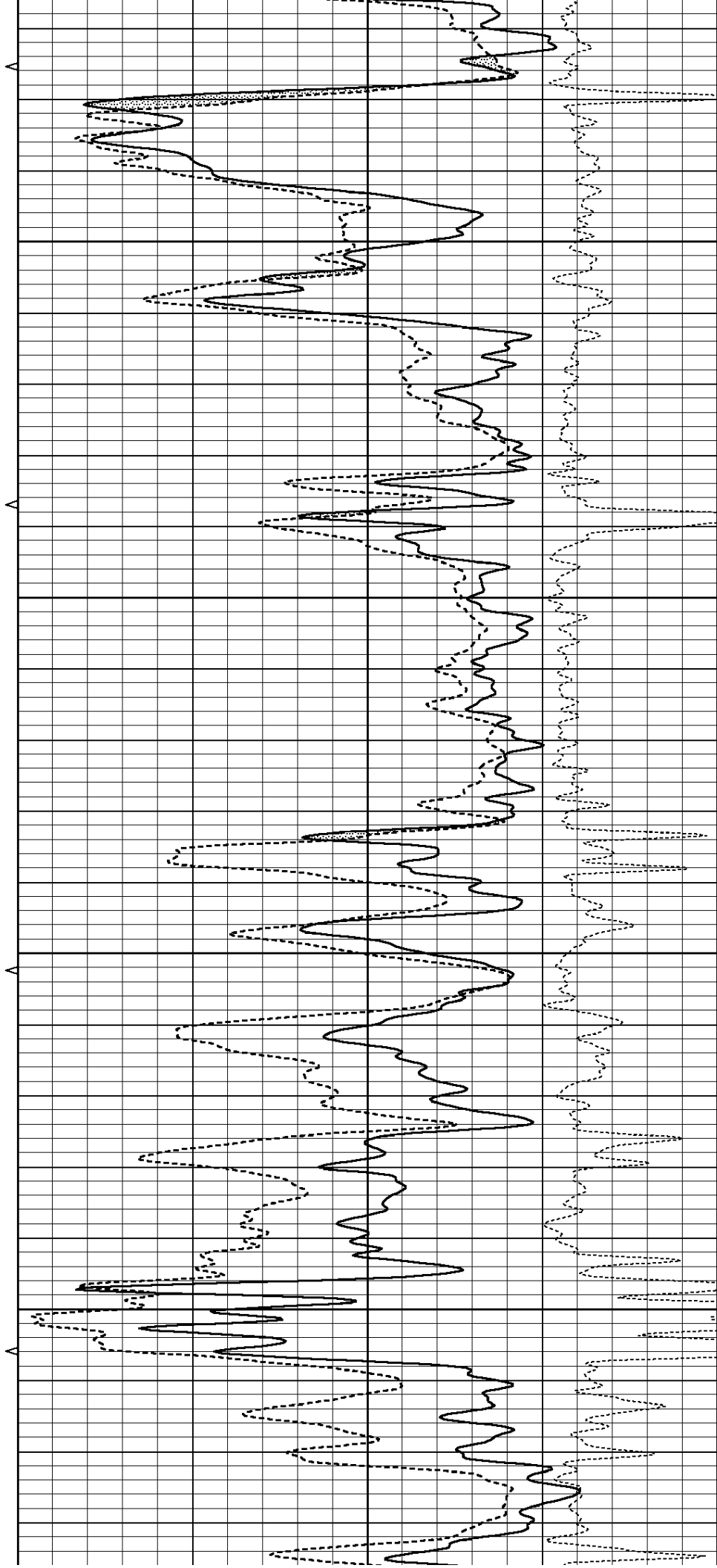


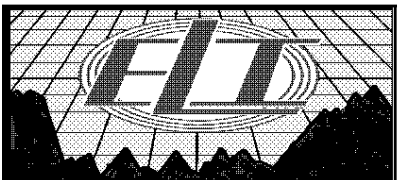
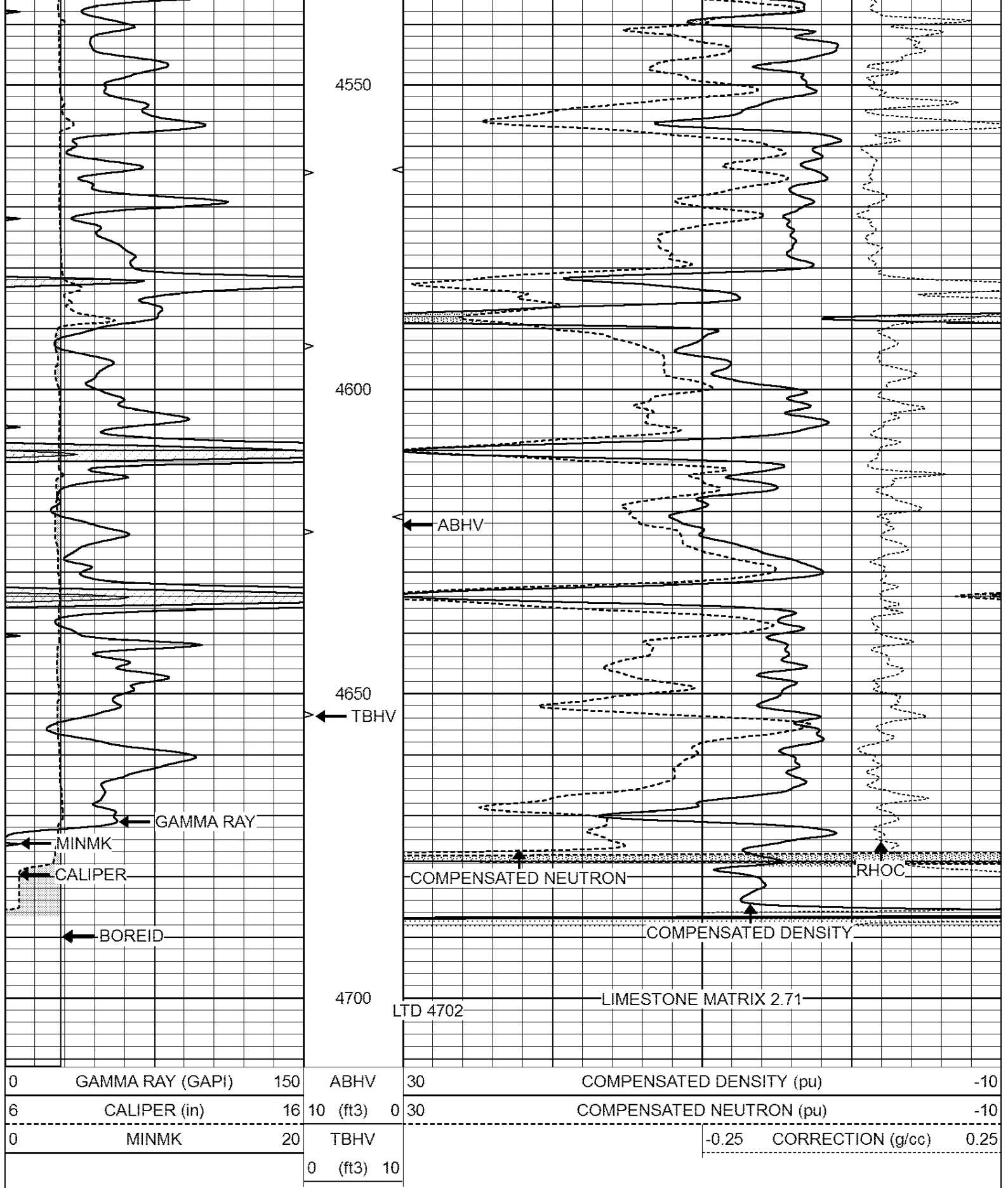
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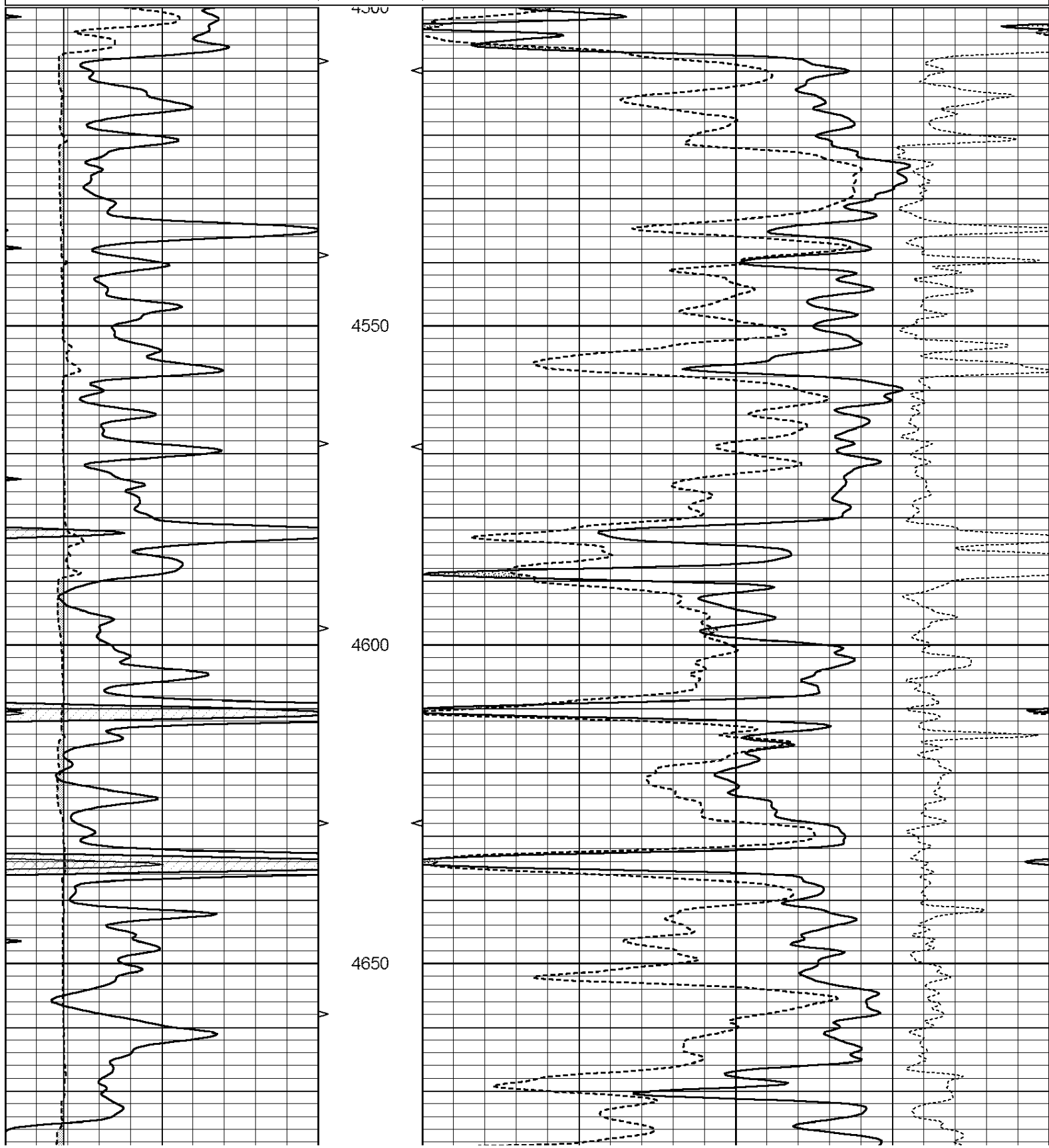


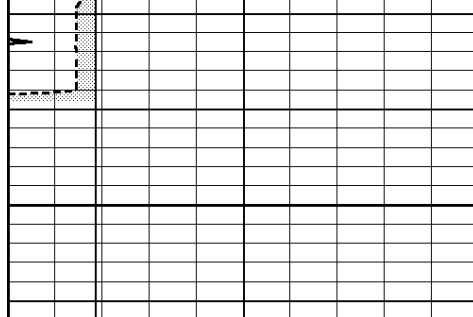
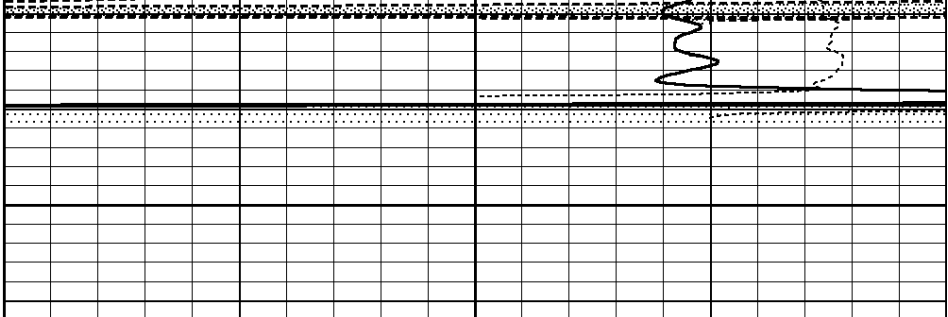


REPEAT SECTION

Database File: 1805ddn.db
Dataset Pathname: pass2.1
Presentation Format: den_neu
Dataset Creation: Tue Jul 18 04:00:21 2017 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	30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3) 10			



						
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			

Compensated Density Calibration Report

Source / Verifier:
Master Calibration Performed:
Before Survey Verification Performed:
After Survey Verification Performed:

Tue Mar 21 18:56:14 2017

Master Calibration

	Density			Far Detector		Near Detector	
Magnesium	1.710	g/cc		798.83		465.02	cps
Aluminum	2.570	g/cc		178.16		318.19	cps
Spine Angle = 75.81				Density/Spine Ratio = 0.556			
	Size			Reading			
Small Ring	7.15	in		1.47		V	
Large Ring	14.00	in		3.01		V	

Before Survey Verification

Target		Measured	
	g/cc		g/cc
	g/cc		g/cc
	g/cc		g/cc

After Survey Verification

Target		Measured	
	g/cc		g/cc
	g/cc		g/cc
	g/cc		g/cc

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

PRE-SURVEY VERIFICATION

	Detector	Readings	Measured	Target
1)	Short Space	cps		
	Long Space	cps	pu	pu
2)	Short Space	cps		
	Long Space	cps	pu	
3)	Short Space	cps		
	Long Space	cps	pu	

POST-SURVEY VERIFICATION

	Detector	Readings	Measured	Target
1)	Short Space	cps		
	Long Space	cps	pu	pu
2)	Short Space	cps		
	Long Space	cps	pu	pu

3)	Short Space Long Space	cps cps	pu	pu
Gamma Ray Calibration Report				
Serial Number:		GR6		
Tool Model:		OPEN		
Performed:		Tue Mar 21 18:56:51 2017		
Calibrator Value:		150.0	GAPI	
Background Reading:		0.0	cps	
Calibrator Reading:		276.0	cps	
Sensitivity:		0.6000	GAPI/cps	