

**Tucker**  
ENERGY SERVICES

COMPENSATED NEUTRON

PEL DENSITY LOG

Company RUNNING FOXES PETROLEUM  
Well HOLEMAN #1-22A-4  
Field BRONSON-XENIA  
County ALLEN  
State KANSAS  
Country USA  
API No. 15-001-30606-00-00

File No : TUL-58792  
Company : RUNNING FOXES PETROLEUM INC.  
Well : HOLEMAN #1-22A-4  
Field : BRONSON-XENIA  
County : ALLEN  
State : KANSAS  
Country : USA  
API No : 15-001-30606-00-00

Location :  
495' FNL & 165' FEL  
SE NENE NE

LSD :                      Sect : 22                      Twp : 24S                      Rge : 21E

Date	04-30-2013		
Run Number	1		
Depth--Driller	879.0	Ft	
Depth--Logger	878.0	Ft	
First Reading	855.0	Ft	
Last Reading	20.0	Ft	
Casing--Driller	20.0	Ft	
Casing--Logger	20.0	Ft	
Bit Size	6.750	In	
Casing Size	8.625	In	
Hole Fluid Type	FRESH		
Density	0.0		
Fluid Loss	0.0		
PH/Viscosity	0.0		0.0
Sample Source	MEASURED		
RM@Measured Temp.	10.000	@ 80 F	
RMF@Measured Temp	8.500	@ 80 F	
RMG@Measured Temp.	11.500	@ 80 F	
Source RMF/RMC			
RM@BHT	9.700	@ 83 F	
Time Circulation Stopped	04-30-2013 17:44		
Max Recorded Temp.	83	F	
Equipment/Base	TRK 125	TULSA	
Recorded By	R. FRANKLIN		
Witnessed By	K. HODGES		

The customer is hereby warned that by providing the log data herein, T. E. S. does not agree to provide any interpretation of log data, conversion of log data to physical rock parameters or recommendations. T. E. S. does not guarantee or warrant either expressly or impliedly, the accuracy of any interpretation of log data, conversion of log data to physical rock parameters or recommendations which may be given by T. E. S. personnel. Any interpretation, conversion or recommendation is not part of the consideration for the agreement between the parties and is not part of any part of the charge by T. E. S. for its services. Any user of the log data is warned that said user is not entitled to rely on interpretations, conversions or recommendations as aforesaid.

Bitsize Intervals		Casing Strings			
Size (In)	Bottom (Ft)	Size (In)	Weight (Lbs)	Bottom (Ft)	Top (Ft)
6.750	879.00	8.625	32.00	20.00	0.00

Run Number	1		
Date	04-30-2013		
Date/Time On Bottom	04-30-2013 17:00		
Depth to Fluid	0.0	Ft	
Salinity	0.000		
RMF@BHT	0.000	@ 83 F	
RMC@BHT	11.100	@ 83 F	

Run Number 1

Comments

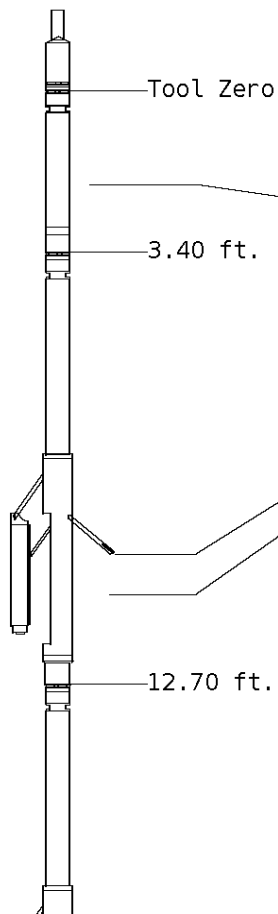
ALL PRESENTATIONS AS PER CUSTOMER REQUEST.  
 GRT, CNT, LDT, AND PIT RUN IN COMBINATION.  
 CALIPERS ORIENTED ON X-Y AXIS.  
 2.71 G/CC USED TO CALCULATE POROSITY.  
 ANNULAR HOLE VOLUME CALCULATED USING 4.5" PRODUCTION CASING.

GRT: GRP  
 CNT: PHIN, CLCNIN,  
 LDT: PORL, LCORN, LDENN, PECLN, CLLDIN  
 PIT: ILD, ILM, SFLAEC, SPU, CIRD

OPERATORS:  
 R. SAMS  
 D. HOPPER

### Tool String Schematic

**Total Tool Length** - 43.29 ft.  
**Maximum Outside diameter** - 4.80 in.  
**Net Weight in Air** - 743.00 lbs.



**Tool:** GRT-B      **Length:** 3.40 ft.    **O.D.** 3.60 in.  
 Gamma Ray Controller

**Sonde ID** :GRT-BA-14

Measure Point	Tool Offset	Stack Offset	Bottom Offset
GRP	2.00	2.00	41.29

**Tool:** CNT-AA      **Length:** 9.30 ft.    **O.D.** 4.36 in.  
 Compensated Neutron A Pad on NDT-A

**Sonde ID** :NDT-AF-402

**Source ID** :N-1048

**Pad ID** :CNP-AA-109

Measure Point	Tool Offset	Stack Offset	Bottom Offset
CLCN	6.00	9.40	33.89
PHIN	6.80	10.20	33.09

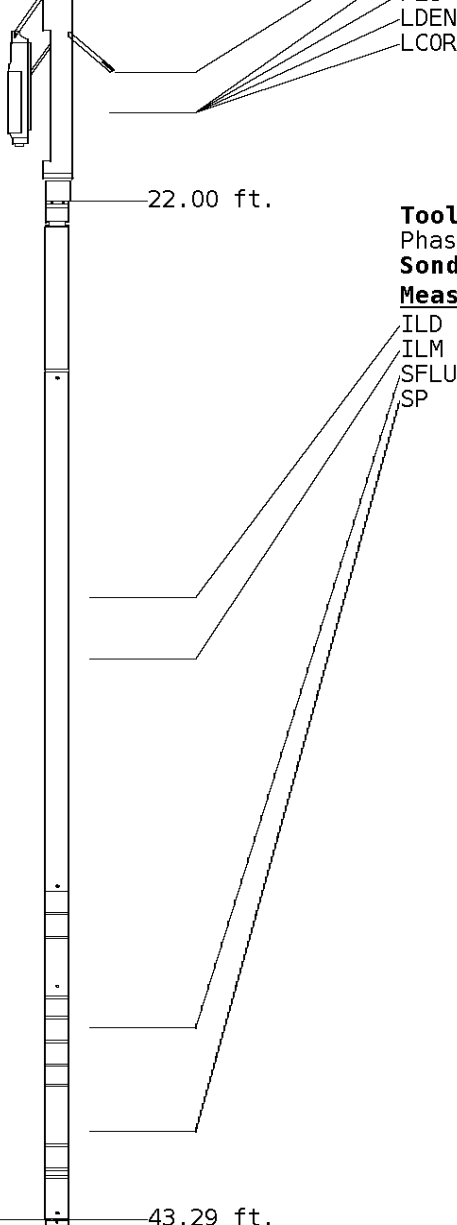
**Tool:** LDT-DA      **Length:** 9.30 ft.    **O.D.** 4.80 in.  
 Litho Density D Pad on NDT-A

**Sonde ID** :NDT-AH-148

**Source ID** :1902GW

**Pad ID** :LDP-DA-36

Measure Point	Tool Offset	Stack Offset	Bottom Offset
CLLD	6.00	18.70	24.59
PEL	7.00	19.70	23.59
PES	7.40	20.10	23.19



7.20 19.90 23.39  
7.20 19.90 23.39

**Tool:** PIT-CA      **Length:** 21.29 ft.    **O.D.** 3.62 in.  
 Phased Dual Induction  
**Sonde ID** :PIT--AB-16

Measure Point	Tool Offset	Stack Offset	Bottom Offset
ILD	8.73	30.73	12.56
ILM	9.90	31.90	11.39
SFLU	17.29	39.29	4.00
SP	20.41	42.41	0.88

**Well File:** RFP\_HOL\_1-22A-4\_APR\_30\_STK      **Scale:** 1:240      **Format:** NLD-240  
**Segment:** V1.D1.S5 MAIN      **Acquired:** 2013-04/30 17:27 3.3.0-11923  
**Reference:** 0      **Processed:** 2013-04/30 18:05 3.3.0-11923

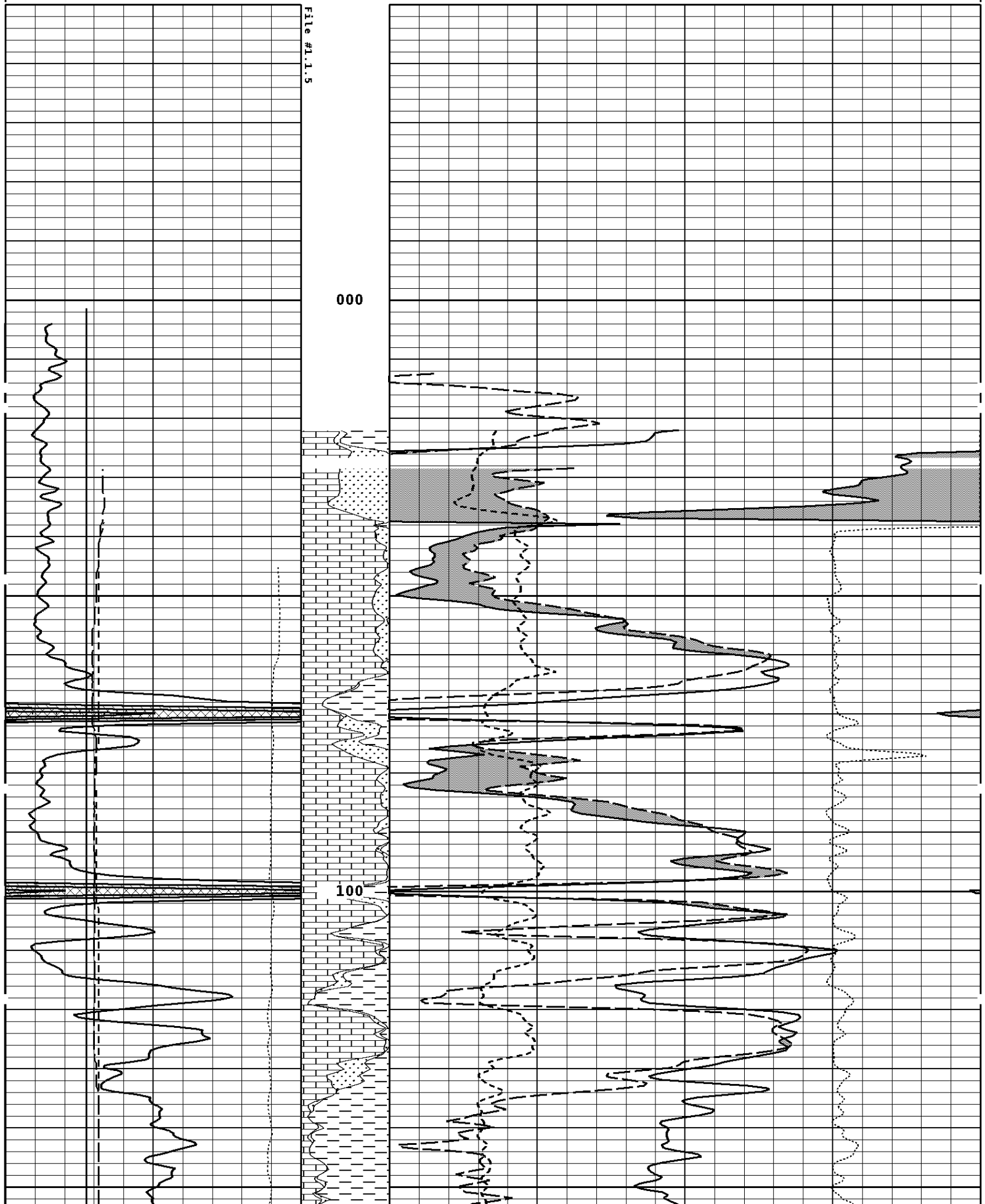
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4	14		
<b>NEUTRON (Y) CALIPER INCHES (IN)</b>			
14	24		
4	14		
<b>DENSITY (X) CALIPER INCHES (IN)</b>			
14	24		
4	14		
<b>TENSION LBS</b>		<b>DENSITY POROSITY (2.71g/cc) PERCENT</b>	
10000	0	70	30
		30	-10
		-10	-50
<b>GAMMA RAY API UNITS</b>		<b>NEUTRON POROSITY (LIMESTONE) PERCENT</b>	
200	400	30	
0	200		-10

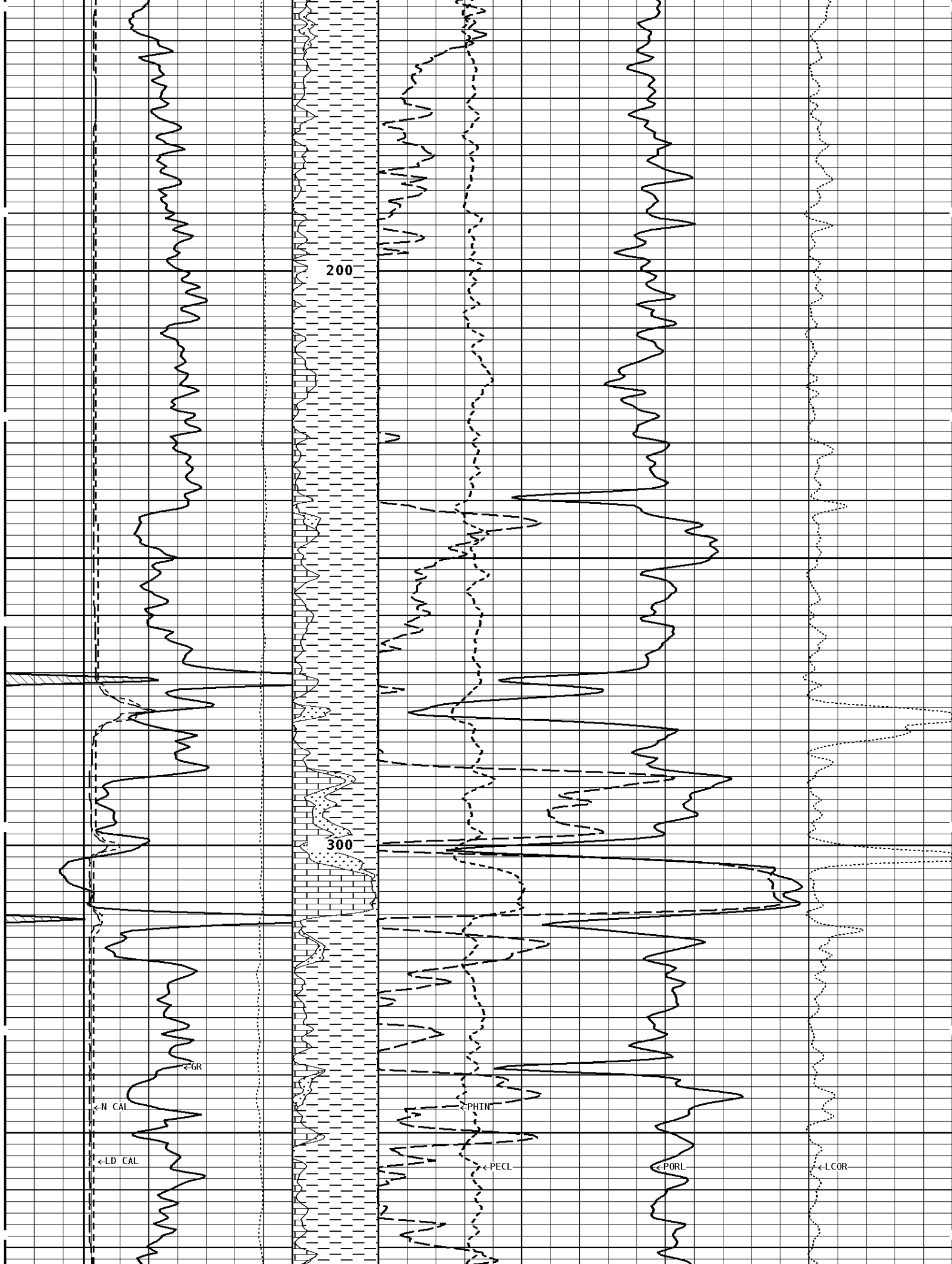
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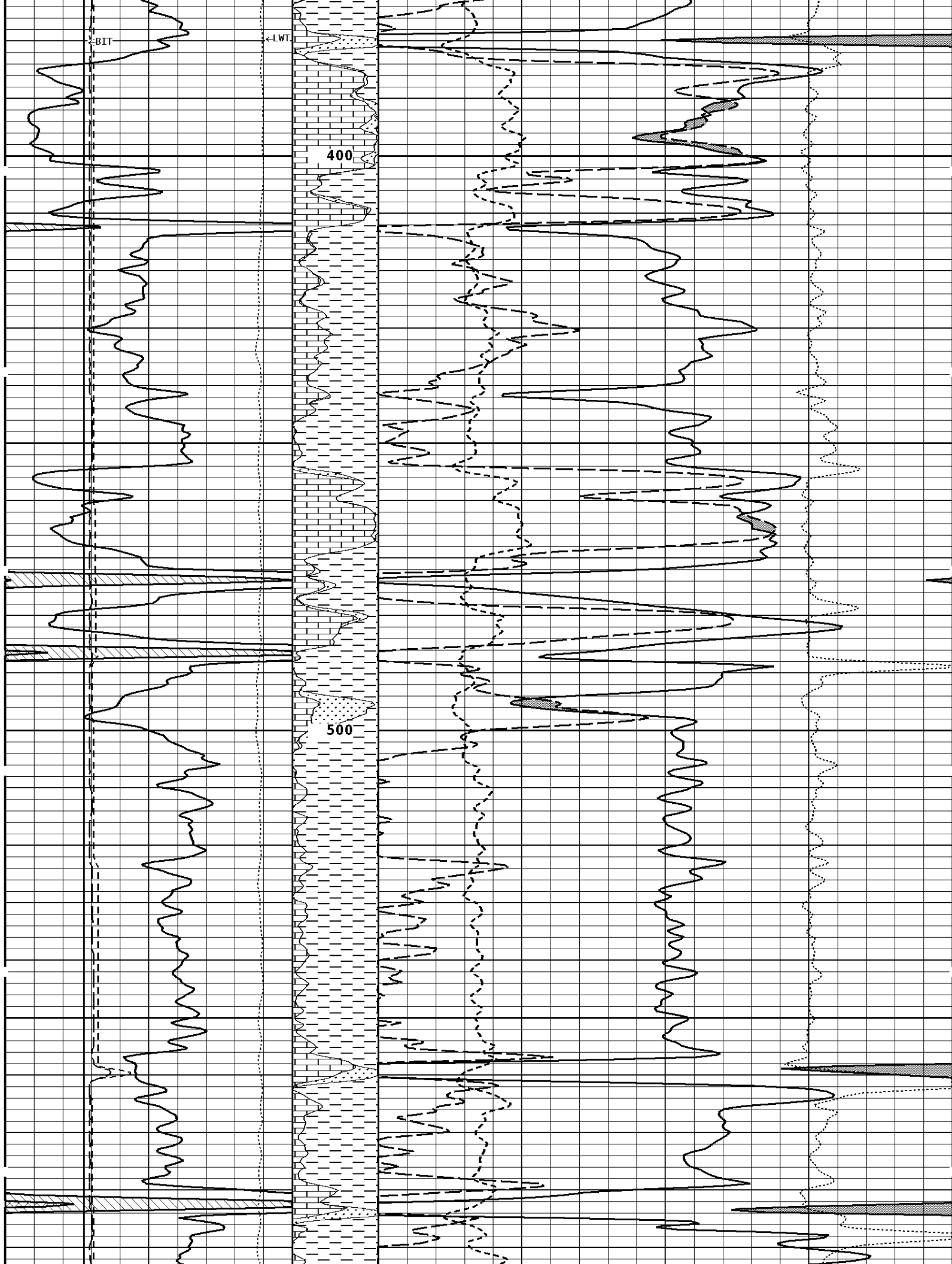
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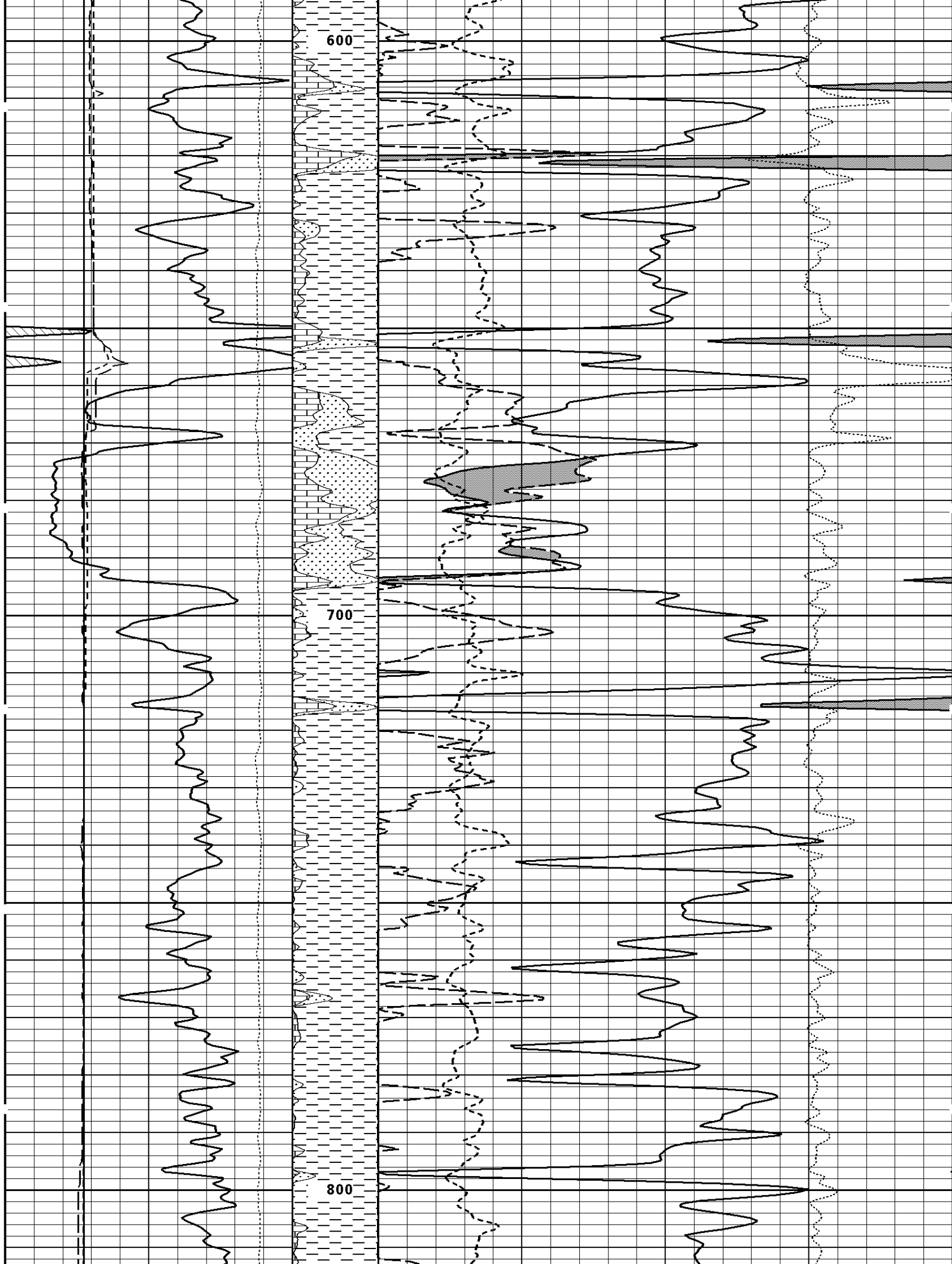
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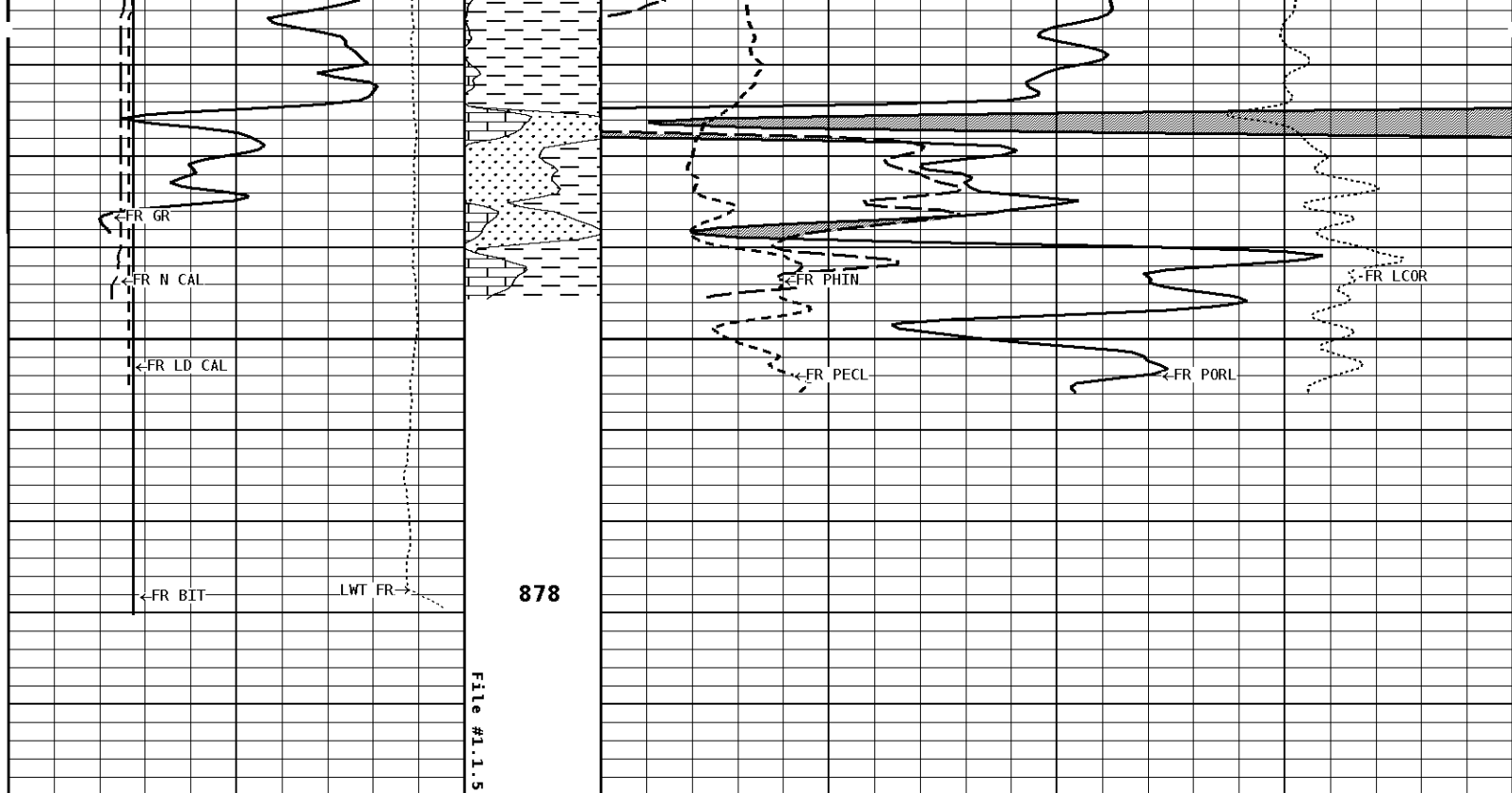
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878

File #1.1.5

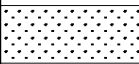
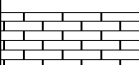
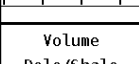
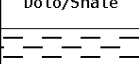
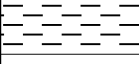
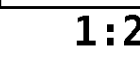
**1:240 MAIN SECTION**

<b>GAMMA RAY API UNITS</b> 200 0 400 200		Volume Dolo/Shale 30	<b>NEUTRON POROSITY (LIMESTONE) PERCENT</b> -10	
<b>TENSION LBS</b> 10000 0		Volume Calcite 70 30 -10	<b>DENSITY POROSITY (2.71g/cc) PERCENT</b> 30 -10 -50	
<b>DENSITY (X) CALIPER INCHES (IN)</b> 14 4 24 14		Volume Quartz 0	<b>PE CROSS-SECTION BARN/ ELECTRON</b> 10	<b>DENSITY CORRECTION G/CC</b> -0.25 0.25
<b>NEUTRON (Y) CALIPER INCHES (IN)</b> 14 4 24 14				
<b>BIT SIZE INCHES (IN)</b> 4 14				

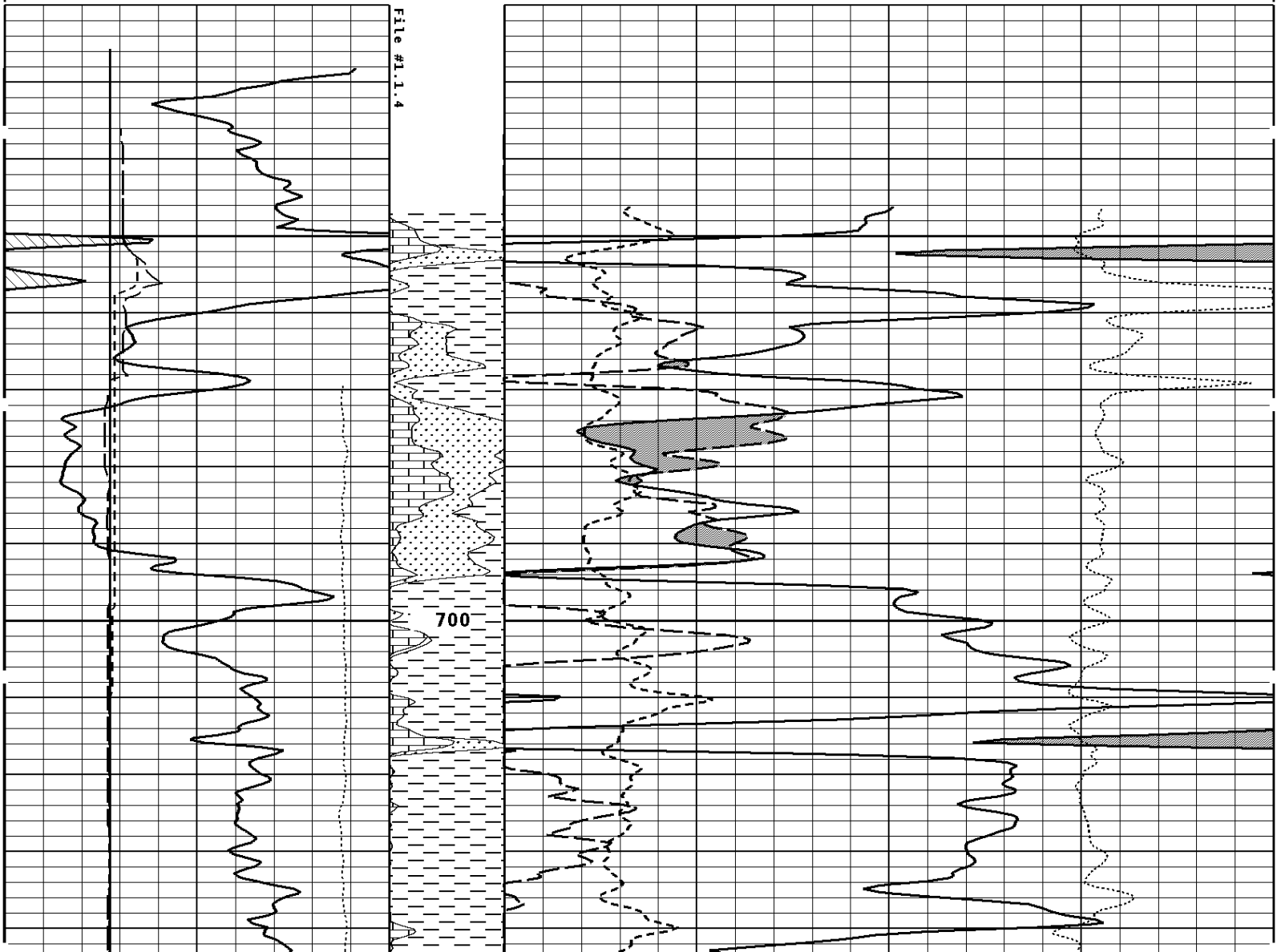
**\* Borehole Zone Factors \***

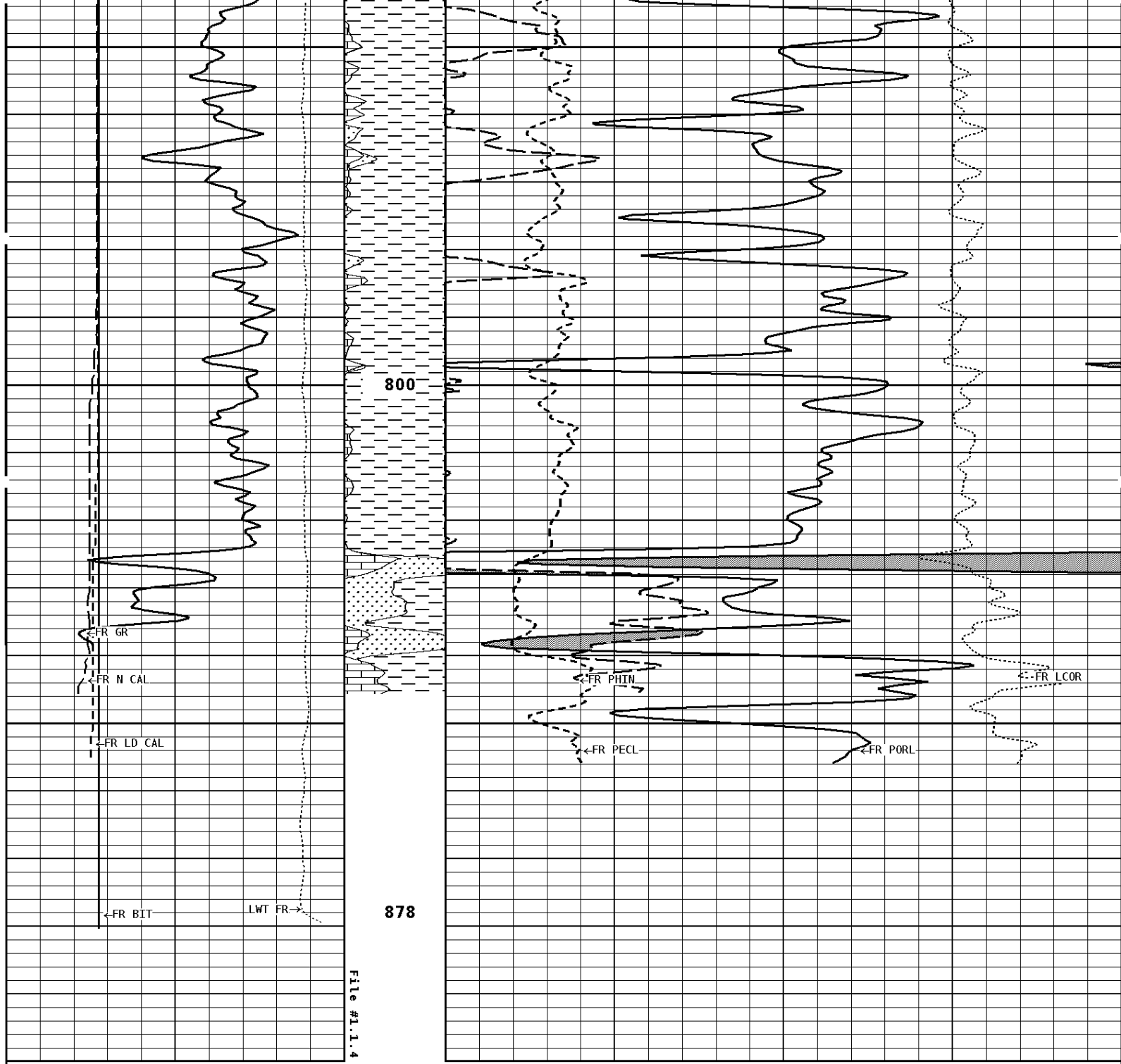
<b>Zone 1 99999.0 to 0.0 Feet</b>		
Matrix Density	_____	2.71 g/cc
Fluid Density	_____	1.00 g/cc
Formation Matrix	_____	Limestone
Drill Bit Size	_____	6.750 in
Casing Diameter	_____	4.500 in
Casing Thickness	_____	0.250 in
Casing Correction (PHI N)	_____	Disable



<b>BIT SIZE INCHES (IN)</b>							
4	14						
<b>NEUTRON (Y) CALIPER INCHES (IN)</b>							
14	24						
4	14						
<b>DENSITY (X) CALIPER INCHES (IN)</b>		Volume Quartz	<b>PE CROSS-SECTION BARNS/ELECTRON</b>		<b>DENSITY CORRECTION G/CC</b>		
14	24						
4	14		0	10	-0.25	0.25	
<b>TENSION LBS</b>		Volume Calcite	<b>DENSITY POROSITY (2.71g/cc) PERCENT</b>				
10000	0		70			30	
			30			-10	
			-10			-50	
<b>GAMMA RAY API UNITS</b>		Volume Dolo/Shale	<b>NEUTRON POROSITY (LIMESTONE) PERCENT</b>				
200	400						
0	200		30			-10	

**1:240 REPEAT SECTION**

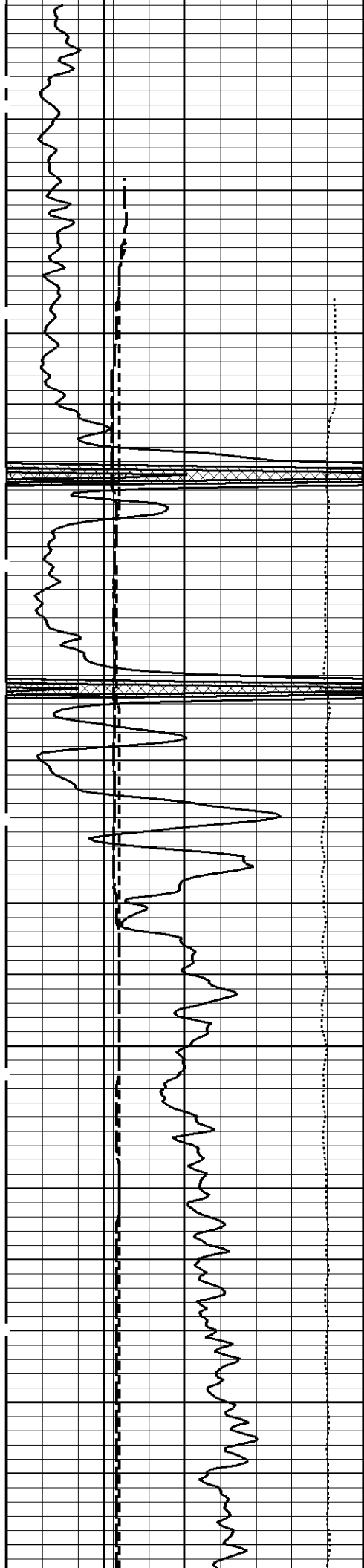




**1:240 REPEAT SECTION**

<b>GAMMA RAY</b> <b>API UNITS</b> 200 0 400 200		Volume Dolo/Shale 30	<b>NEUTRON POROSITY (LIMESTONE)</b> <b>PERCENT</b> -10	
<b>TENSION</b> <b>LBS</b> 10000 0		Volume Calcite 70 30 -10	<b>DENSITY POROSITY (2.71g/cc)</b> <b>PERCENT</b> 30 -10 -50	
<b>DENSITY (X) CALIPER</b> <b>INCHES (IN)</b> 14 4 24 14		Volume Quartz 0	<b>PE CROSS-SECTION</b> <b>BARNS/ELECTRON</b> 10	<b>DENSITY CORRECTION</b> <b>G/CC</b> -0.25 0.25
<b>NEUTRON (X) CALIPER</b>				

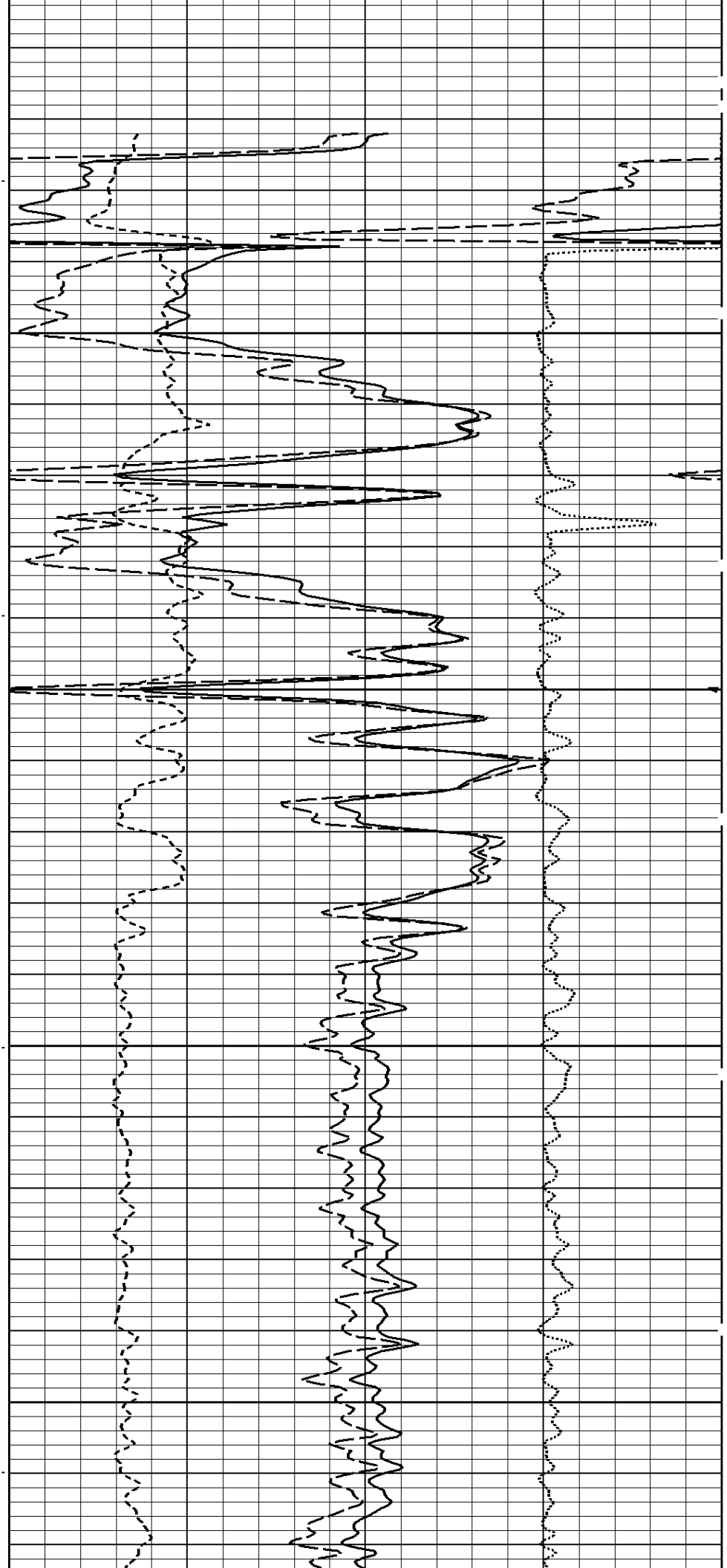


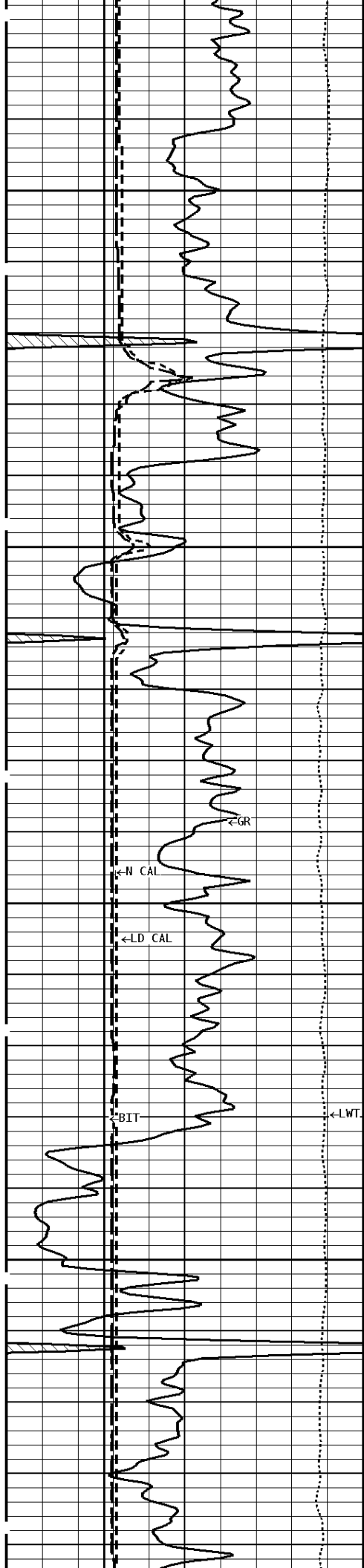


100  
-200Cu.Ft

200

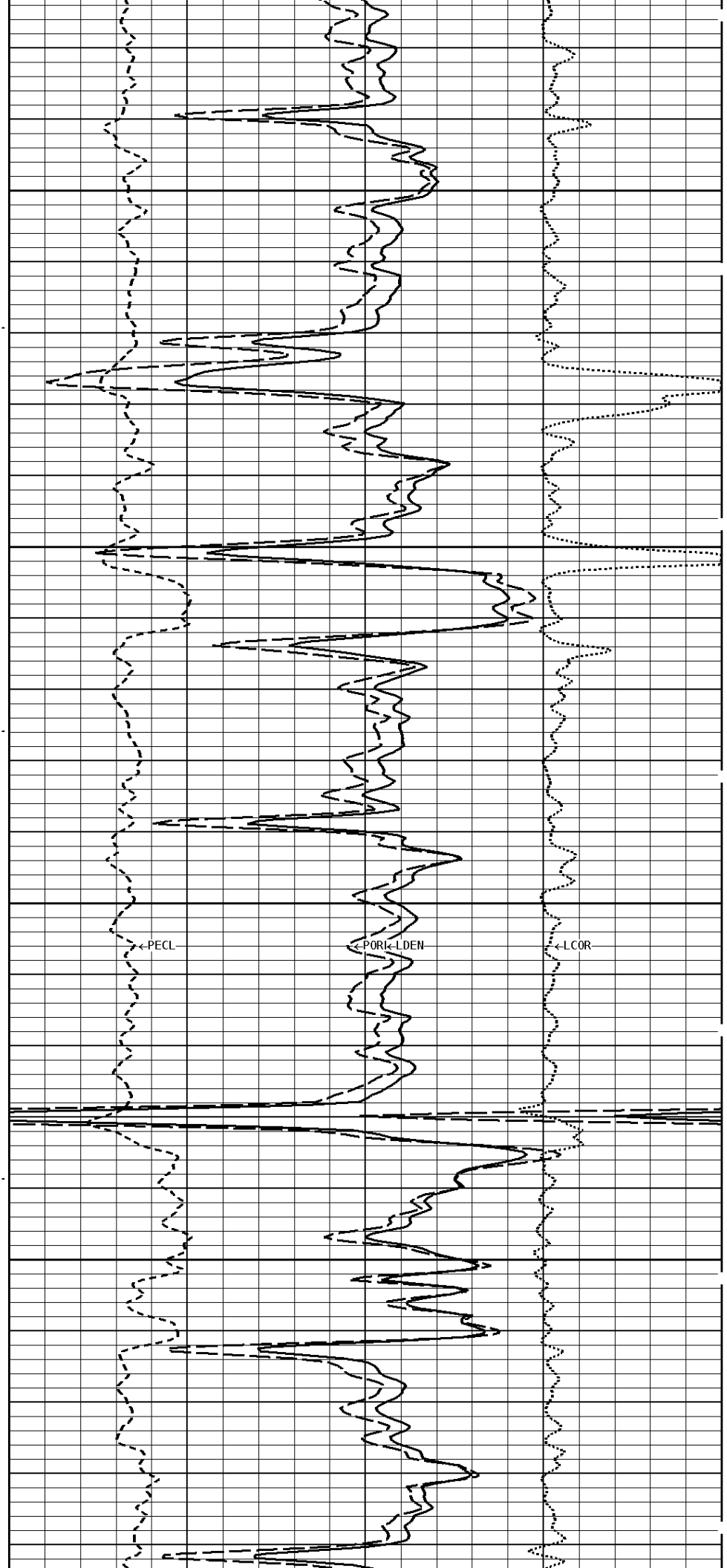
100Cu.Ft

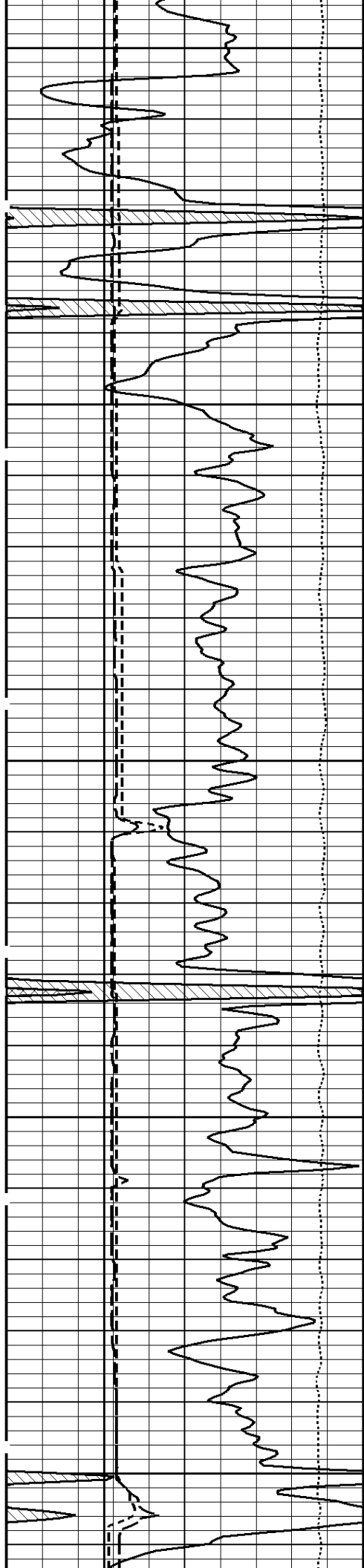




300

400

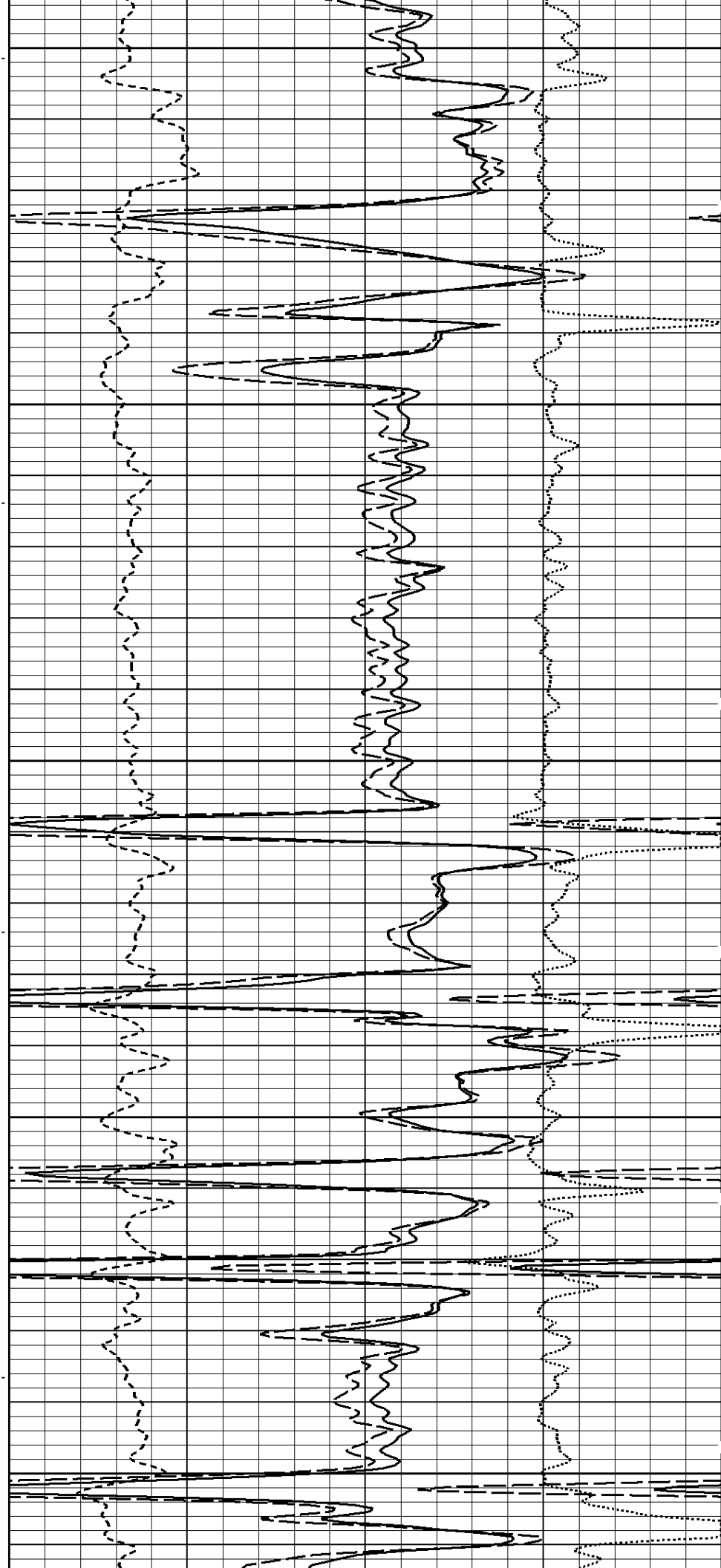


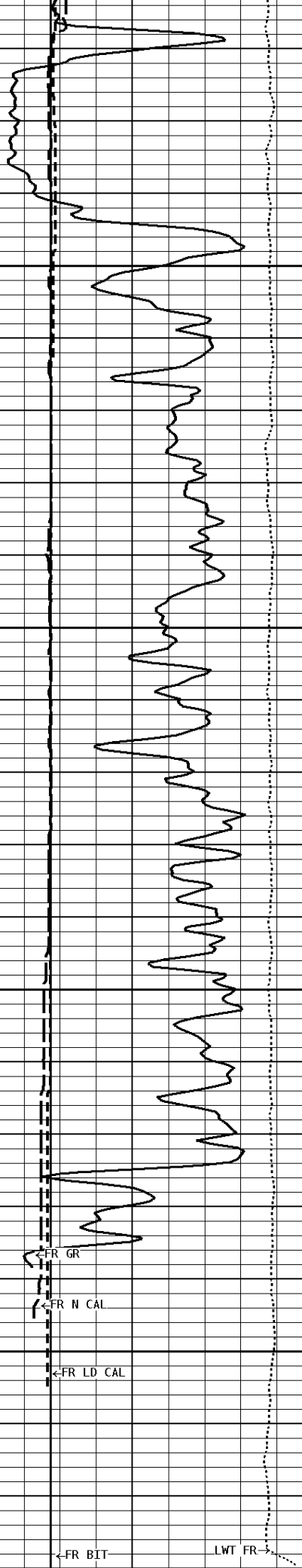


-100Cu.Ft

500

600

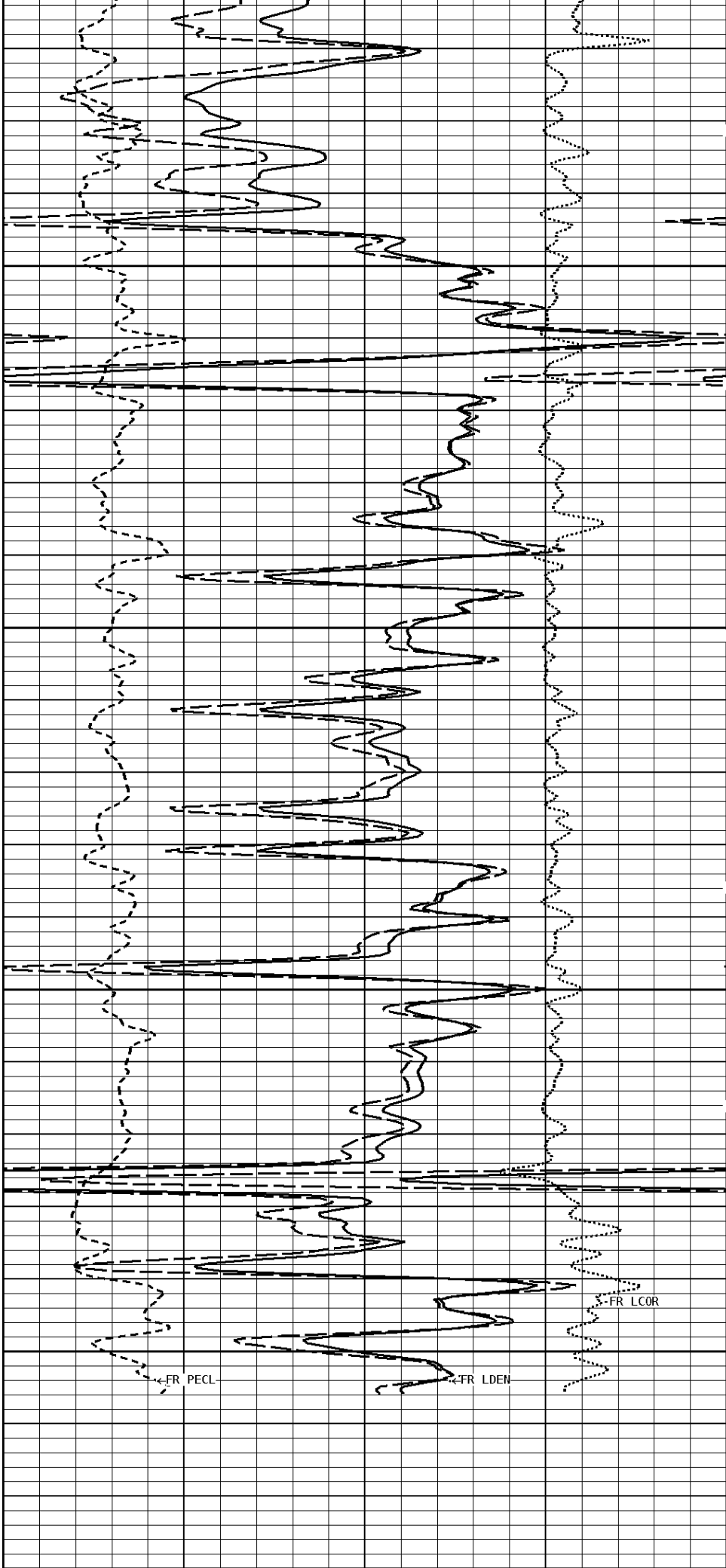




700

800

878



# 1:240 MAIN SECTION

## BULK DENSITY

<p style="text-align: center;"><b>GAMMA RAY API UNITS</b></p> <p>200  400 0 200</p>	<p style="text-align: center;">-BHV AHV- CU. FT</p>	<p style="text-align: center;"><b>DENSITY POROSITY (2.71g/cc) PERCENT</b></p> <p style="text-align: right;">70 30 -10 ----- -50</p>				
<p style="text-align: center;"><b>TENSION LBS</b></p> <p>10000 ----- 0</p>		<p style="text-align: center;"><b>COMPENSATED BULK DENSITY G/CC</b></p> <p style="text-align: right;">3.0 4.0 2.0 3.0 1.0 2.0</p>				
<p style="text-align: center;"><b>DENSITY (X) CALIPER INCHES (IN)</b></p> <p>14 24 4 14 -----</p>		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;"><b>PE CROSS-SECTION BARN/ELECTRON</b></td> <td style="width: 50%; text-align: center;"><b>DENSITY CORRECTION G/CC</b></td> </tr> <tr> <td style="text-align: right;">0 10</td> <td style="text-align: right;">-0.25 0.25 -----</td> </tr> </table>	<b>PE CROSS-SECTION BARN/ELECTRON</b>	<b>DENSITY CORRECTION G/CC</b>	0 10	-0.25 0.25 -----
<b>PE CROSS-SECTION BARN/ELECTRON</b>	<b>DENSITY CORRECTION G/CC</b>					
0 10	-0.25 0.25 -----					
<p style="text-align: center;"><b>NEUTRON (Y) CALIPER INCHES (IN)</b></p> <p>14 24 4 14 -----</p>						
<p style="text-align: center;"><b>BIT SIZE INCHES (IN)</b></p> <p>4 14</p>						

**\* Borehole Zone Factors \***

<b>Zone 1</b>	<b>99999.0</b>	<b>to</b>	<b>0.0</b>	<b>Feet</b>
Matrix Density	_____		2.71	g/cc
Fluid Density	_____		1.00	g/cc
Formation Matrix	_____		Limestone	
Drill Bit Size	_____		6.750	in
Casing Diameter	_____		4.500	in
Casing Correction (PHI N)	_____		Disable	

**\* Calibration Summary \***

<b>Shop Calibration</b>					
<b>GRT-B</b>					
Performed : 17-Apr-2013			Time : 11:05		
Sensor Suite : GR-GR5			ID : GRT-BA-14		
	Measured	Units	Calibrated	Units	
GR	Background	Jig	Jig	GRAPI	
	46	367	175		
	CPS				
<b>Shop Calibration</b>					
<b>CNT-AA</b>					
Performed : 17-Apr-2013			Time : 10:39		
Sensor Suite : CALI-BCN			ID : NDT-AF-402		
	Jig - Measured		Jig - Calibrated		Units
CL # 1	Ring#1	Ring#2	Ring#1	Ring#2	IN.
	8.4	12.7	6.0	12.0	
Performed : 22-Mar-2013			Time : 14:06		
Sensor Suite : BHC NEUT			ID : CNP-AA-109		
Source ID : N-1048					
	Tank	Verification	Units		
N/F	Measured	Calibrated	Jig		
Porosity	3.6434	3.6893	3.6949		
	19.8	20.5	20.6	%	



**Shop Calibration  
LDT-DA**

Performed : 17-Apr-2013      Time : 10:10  
 Sensor Suite : CALI-LTH      ID : NDT-AH-148

CL # 1	Jig - Measured		Jig - Calibrated		Units
	Ring#1	Ring#2	Ring#1	Ring#2	IN.
	7.4	11.6	6.0	12.0	

Performed : 01-Apr-2013      Time : 11:09  
 Sensor Suite : BHCPELNG      ID : LDP-DA-36  
 Source ID : 1902GW

Short Space					
	BKGD	Al	Mg	Al+Fe	Units
LSW1	78	973	1570	638	CPS
LSW2	85	1138	1799	824	CPS
LSW3	313	2633	4235	2257	CPS
LSW4	391	2356	3378	2078	CPS
LSW5	44	54	60	52	CPS
LSW6	99	98	94	96	CPS
LSW7	67	63	63	62	CPS
LSW8	2	5	6	4	CPS
QS	0.193	0.216	0.199	0.211	
PES			2.778	5.967	
SSDN		2.600	1.680		G/CC

Long Space					
	BKGD	Al	Mg	Al+Fe	Units
LLW1	144	1079	4337	672	CPS
LLW2	177	1872	7420	1375	CPS
LLW3	577	3607	13512	3133	CPS
LLW4	651	1815	5398	1657	CPS
LLW5	83	76	110	76	CPS
LLW6	191	179	166	180	CPS
LLW7	126	119	110	120	CPS
LLW8	6	7	15	7	CPS
QL	0.205	0.202	0.205	0.201	
PEL			2.697	5.458	
LSDN		2.600	1.680		G/CC



Company: RUNNING FOXES PETROLEUM INC.  
 Well: HOLEMAN #1-22A-4  
 Location: 495' FNL & 165' FEL  
 Logged: 04-30-2013  
 K.B. Elev: 0.0 Ft