



energy services

Company	MERIT ENERGY COMPANY, LLC		
Well	DANIELS #1-28		
Field	WILDCAT		
County	HASKELL		
State	KANSAS		
Country	USA		
API No.	15-081-22216-0100		
File No	:	HAYS-70398	
Company	:	MERIT ENERGY COMPANY, LLC	
Well	:	DANIELS #1-28	
Field	:	WILDCAT	
County	:	HASKELL	
State	:	KANSAS	
Country	:	USA	
API No	:	15-081-22216-0100	
Location :	1879' FEL & 2288' FNL SE/4 NE/4		
LSD :	Sect : 28	Twp : 27S	Rge : 33W

Permanent Datum:		GL	Elevations:		Services:		
Drilling Measured From:	KB	KB	KB 2985.00	Ft	GRT	MST	
Log Measured From:	KB	KB	DF 2984.00	Ft	CNT	PIT	
Above Permanent Datum:	12.00	Ft	GL 2973.00	Ft	LDT		
Date	02-06-2020						
Run Number	1						
Depth--Driller	5616.0		Ft				
Depth--Logger	5604.0		Ft				
First Reading	5580.0		Ft				
Last Reading	1758.0		Ft				
Casing--Driller	1726.0		Ft				
Casing--Logger	1726.0		Ft				
Bit Size	7.875		In				
Casing Size	8.625		In				
Hole Fluid Type	WBM						
Density	9.0						
Fluid Loss	5.6						
PH/Viscosity	11.5	58.0					
Sample Source	MEASURED						
RM@Measured Temp.	1.900 @ 50 F						
RMF@Measured Temp	1.620 @ 50 F						
RMC@Measured Temp.	2.190 @ 50 F						
Source RMF/RMC	CALCULATED	CALCULATED					
RM@BHT	0.830 @ 124 F						
Time Circulation Stopped	02-06-2020 11:27						
Max Recorded Temp.	124	F					
Equipment/Base	TRK-137	HAYS					
Recorded By	B.BAILEY						
Witnessed By	MARTIN LANGE, AUSTIN GARNER						

The customer is hereby warned that by providing the log data herein, STEP Energy Services does not agree to provide any interpretation of log data, conversion of log data to physical rock parameters or recommendations. STEP Energy Services 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 STEP Energy Services 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 STEP Energy Services 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)
7.875	5616.00	8.625	17.00	1726.00	0.00

Run Number	1		
Date	02-06-2020		
Date/Time On Bottom	02-06-2020 16:00		
Depth to Fluid	0.0 Ft		
Salinity	625.000		
RMF@BHT	0.710 @ 124 F		
RMC@BHT	0.960 @ 124 F		

Run Number 1

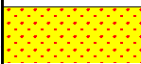
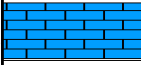
Comments

ALL PRESENTATIONS AS PER CUSTOMER REQUEST
GRT, CNT, LDT, CST, MLT AND PIT RUN IN COMBINATION
CALIPERS ORIENTED ON X-Y AXIS
2.71 G/CC USED TO CALCULATE POROSITY
ANNULAR HOLE VOLUME CALCULATED USING 5.5" PRODUCTION CASING
PHIN IS CALIPER CORRECTED

GRT: GRP
CNT: PHIN, CLCNIN,
LDT: PORL, LCORN, PECLN, LDENN, PORLLS, CLLDIN
CST: PORS, CDTF, TTIPF, TT2PF, TT3PF, TT4PF, ITT
MLT: NOR_RF, INV_RF, MSCLPIN
PIT: ILD, ILM, SPU, SFLAEC, CIRD

OPERATORS:
D. RAGSDALE
J. VAUGHN
D.LEGLEITER

Well File: MERIT DANIELS 1-28 FEB-6_QST	Scale: 1:240	Format: NLD-240
Segment: V1.D8.S4 MAIN FINAL	Acquired: Not Available	
Reference: 0	Processed: Not Available	

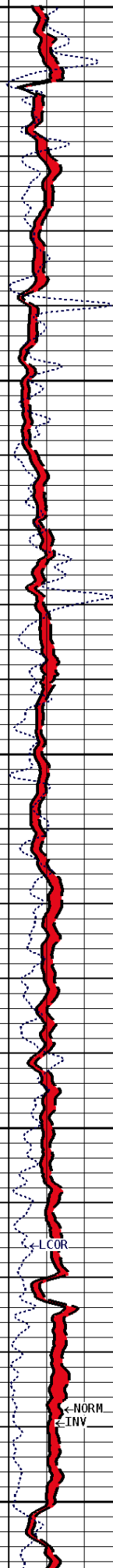
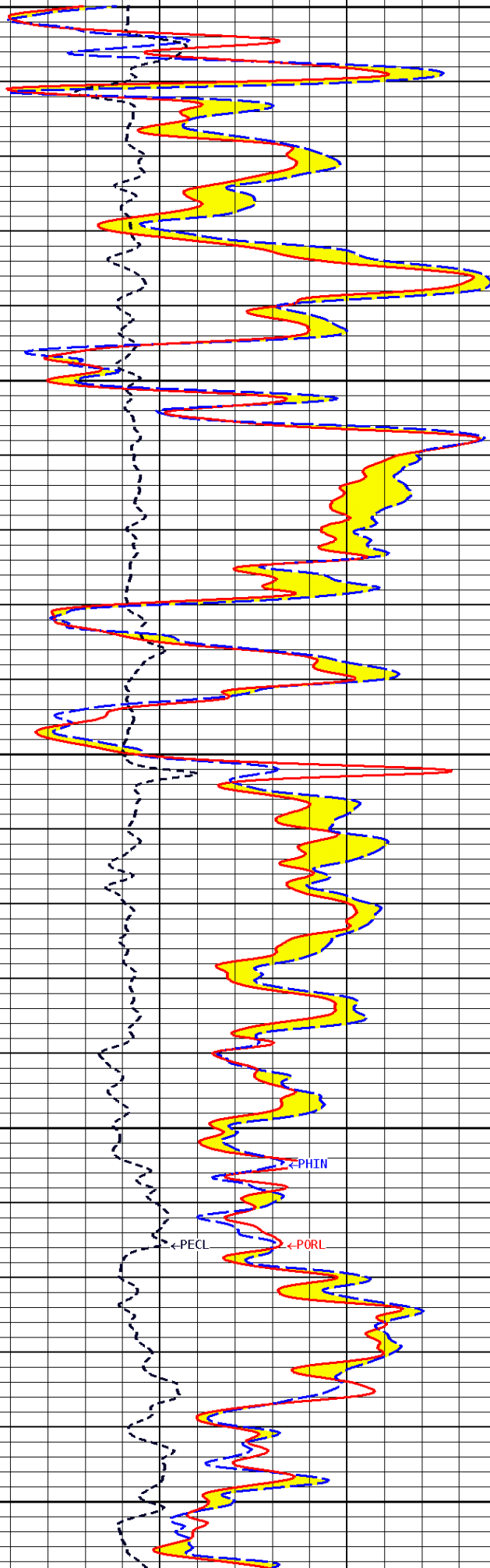
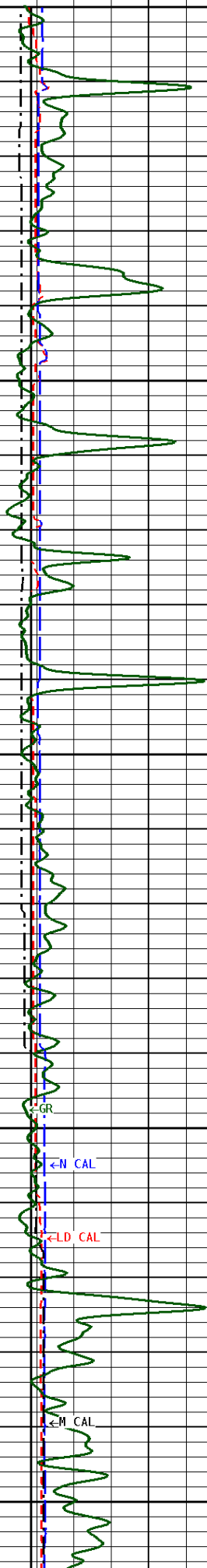
CALIPER MICRO INCHES (IN)					
16	26				
6	16				
BIT SIZE INCHES (IN)					
6	16				
NEUTRON (Y) CALIPER INCHES (IN)					
16	26				
6	16				
DENSITY (X) CALIPER INCHES (IN)		Volume Quartz	PE CROSS-SECTION BARNS/ELECTRON	DENSITY CORRECTION G/CC	
16	26		0	10	-0.25
6	16				0.25
TENSION LBS		Volume Calcite	DENSITY POROSITY (2.71g/cc) PERCENT		
10000	0		70		30
			30		-10
			-10		-50
GAMMA RAY API UNITS		Volume Dolo/Shale	NEUTRON POROSITY (LIMESTONE) PERCENT		
150	300		30		-10
0	150				

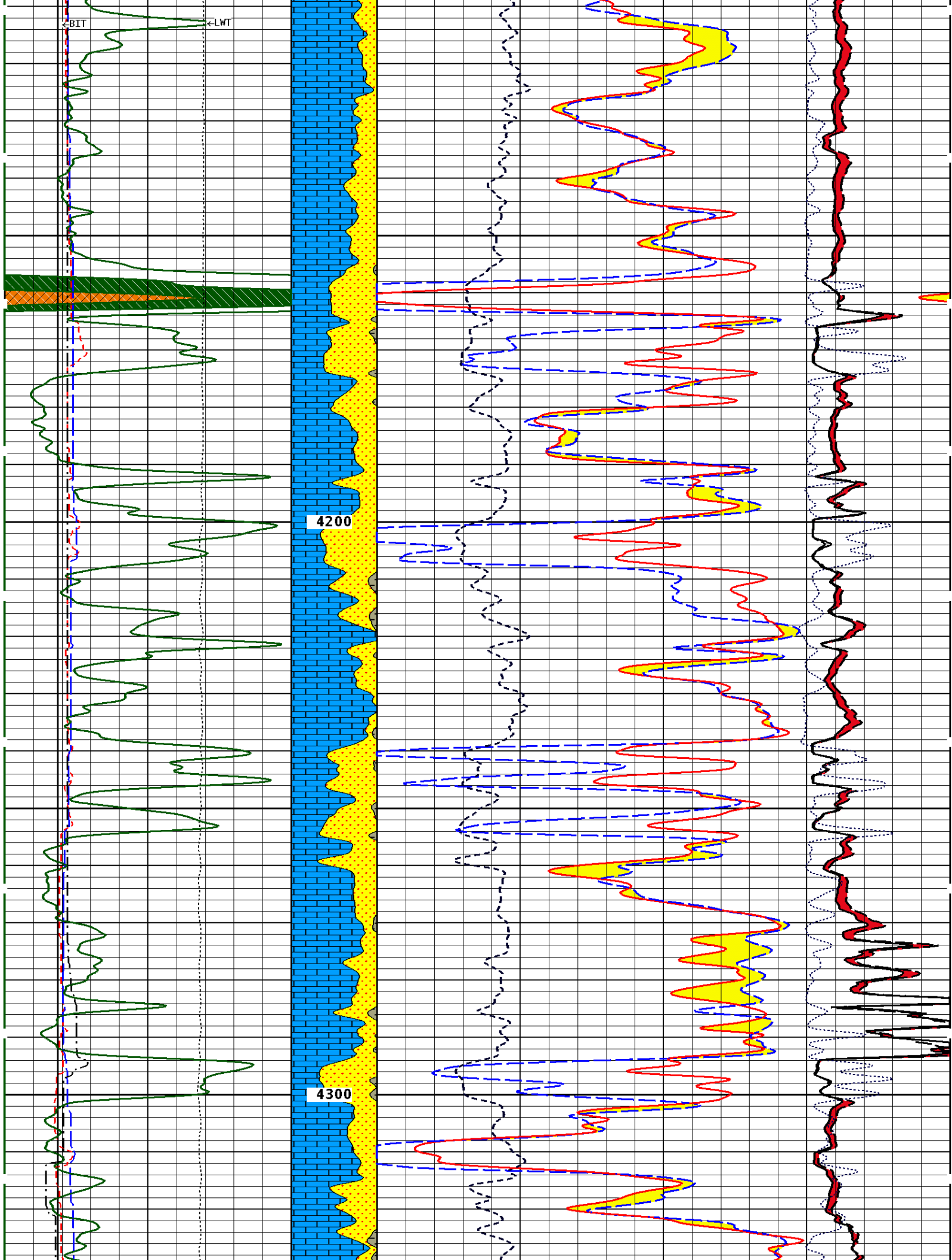
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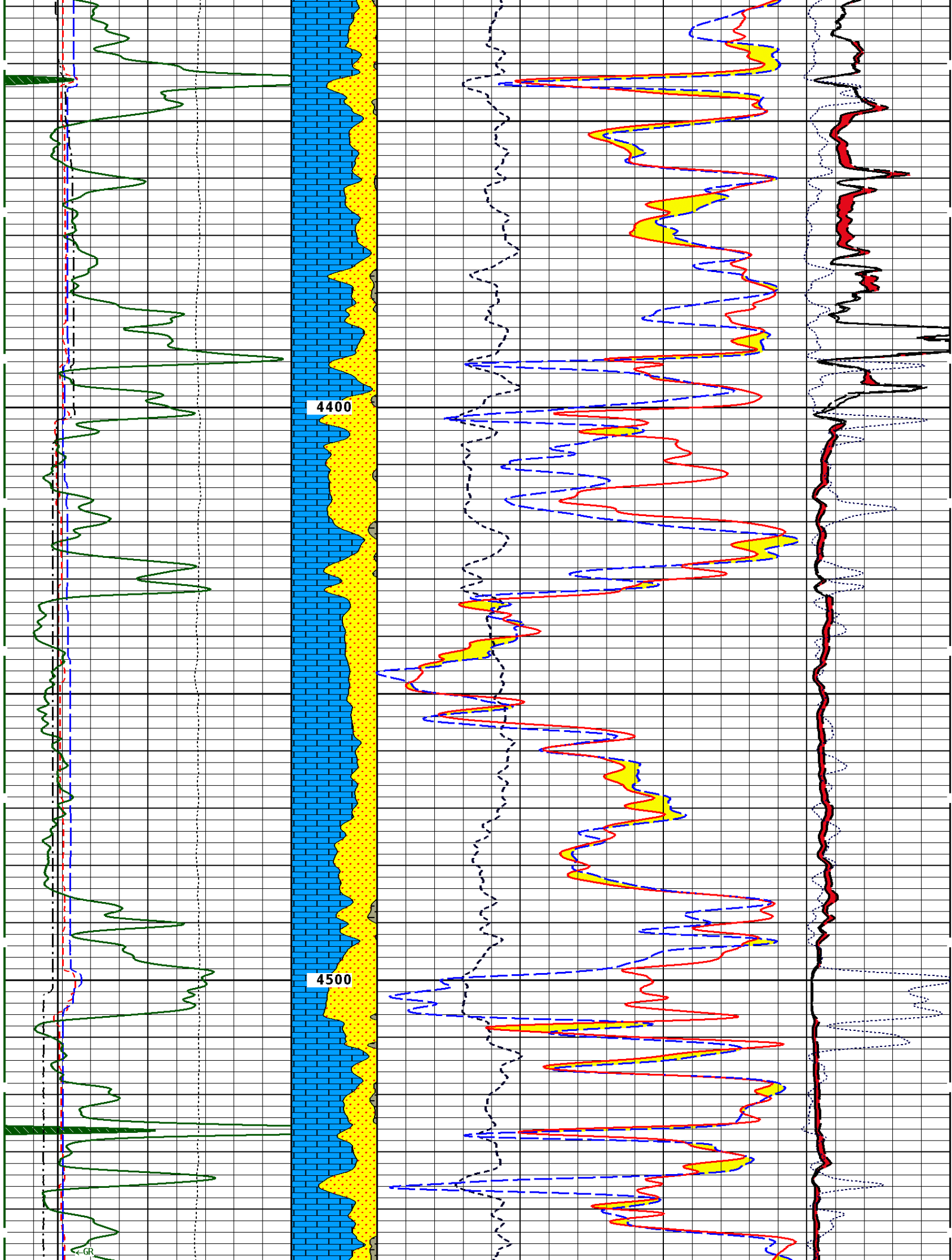
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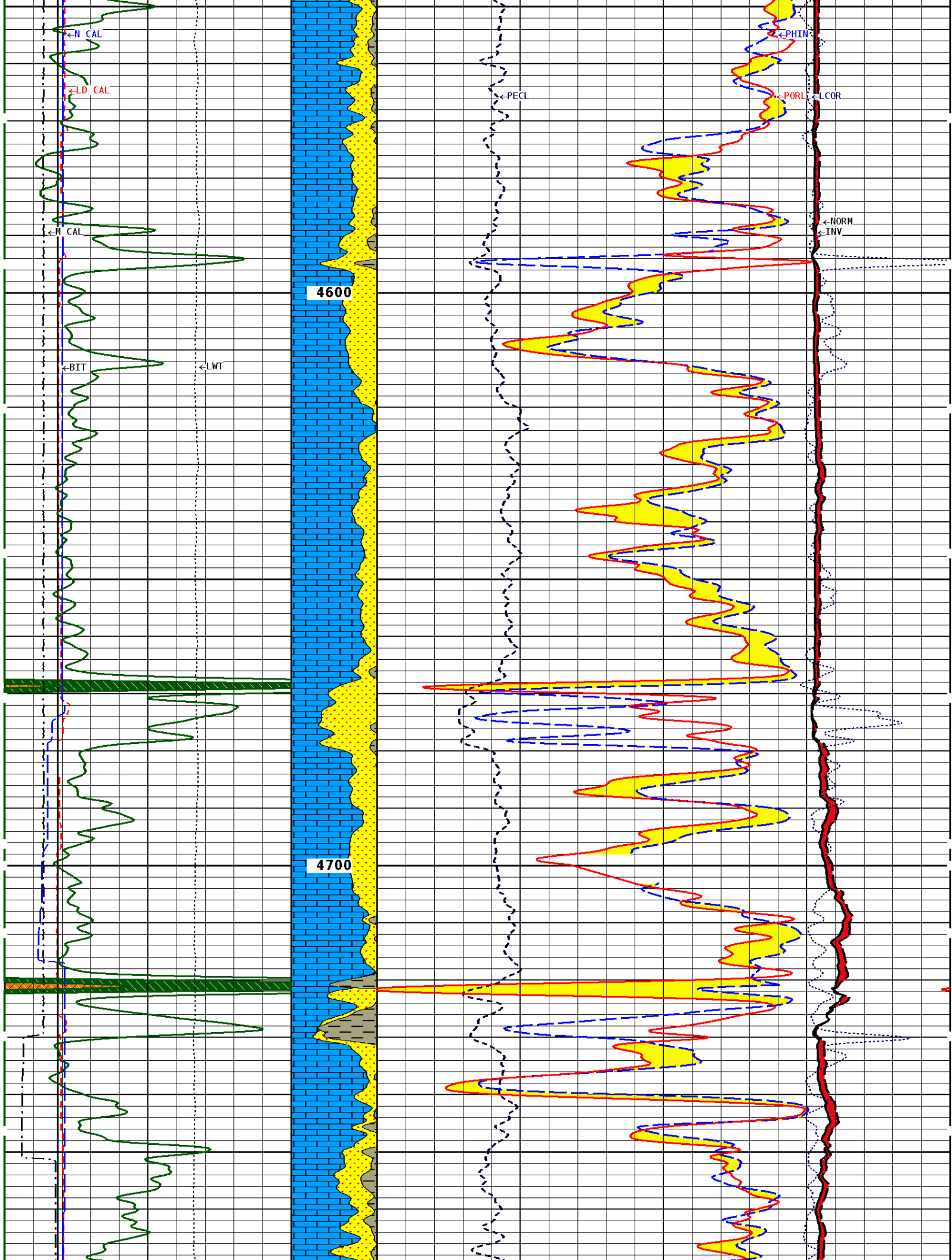
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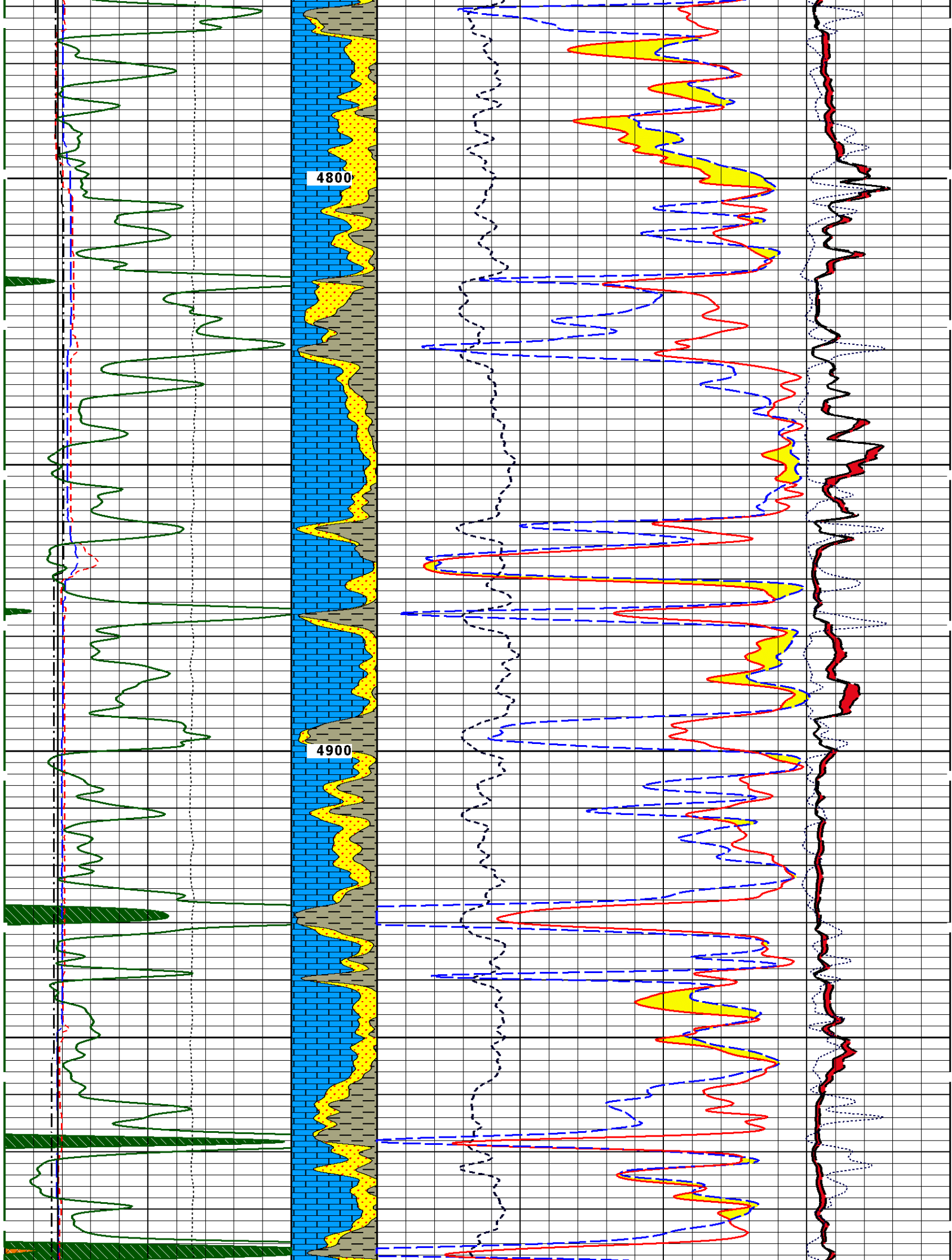
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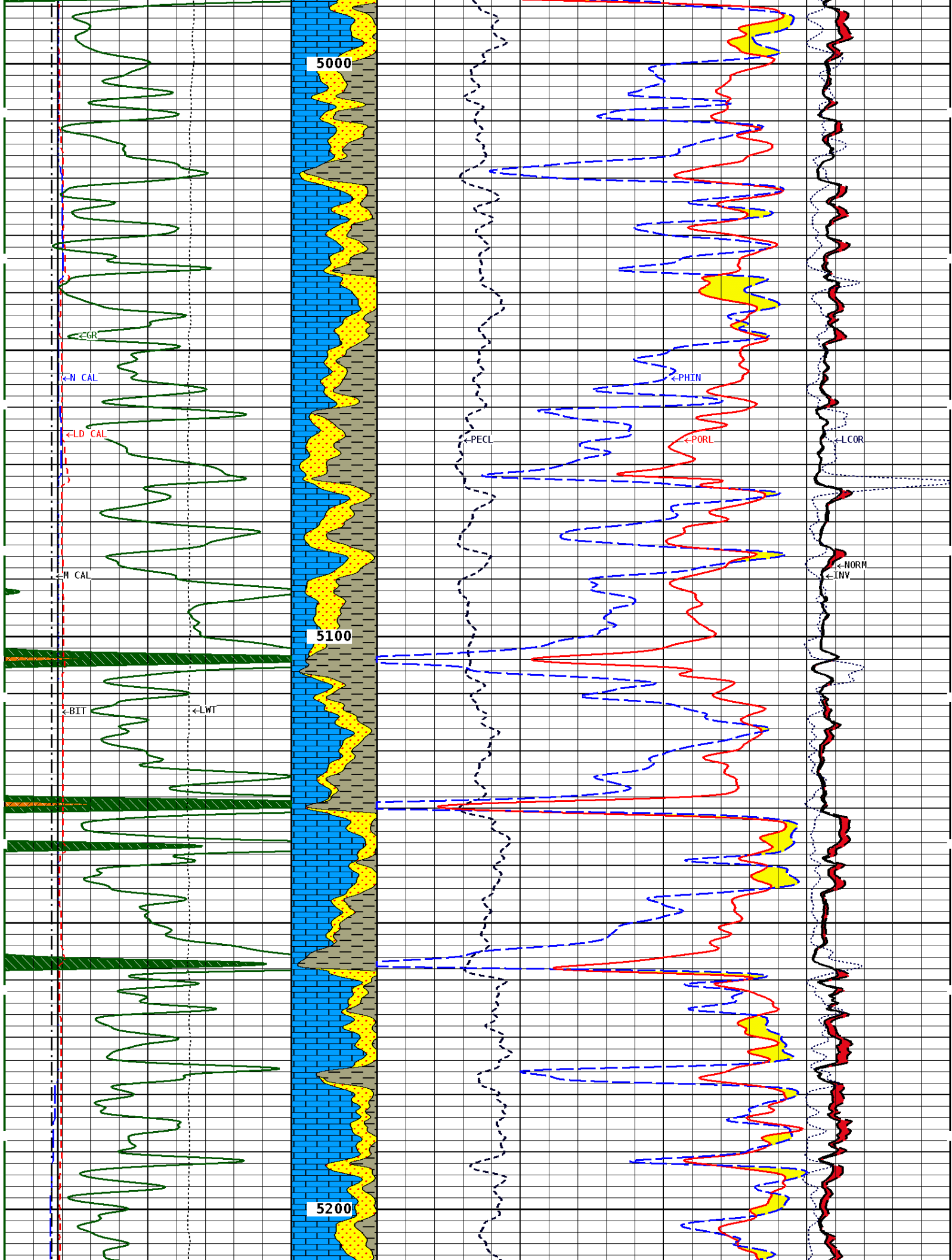


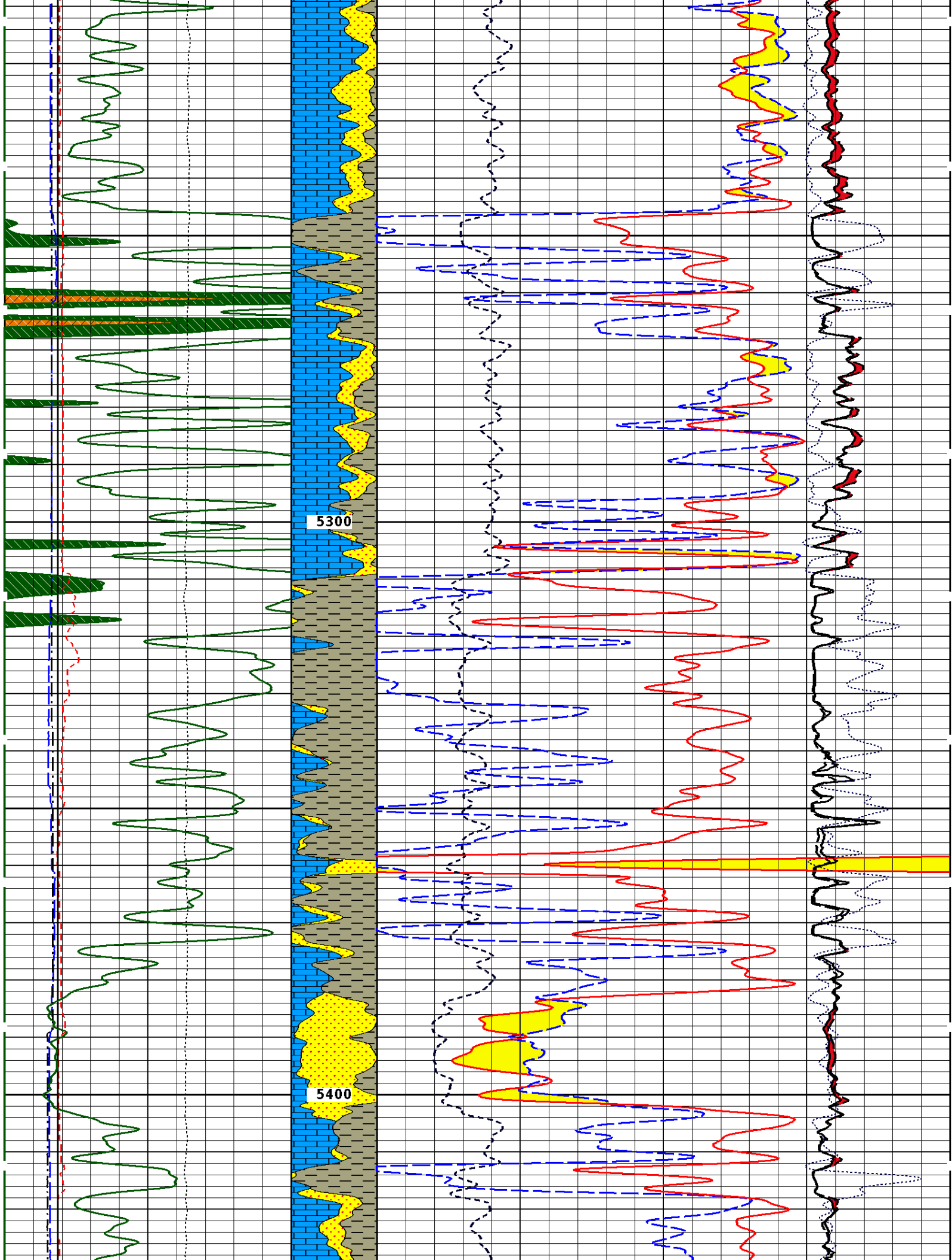


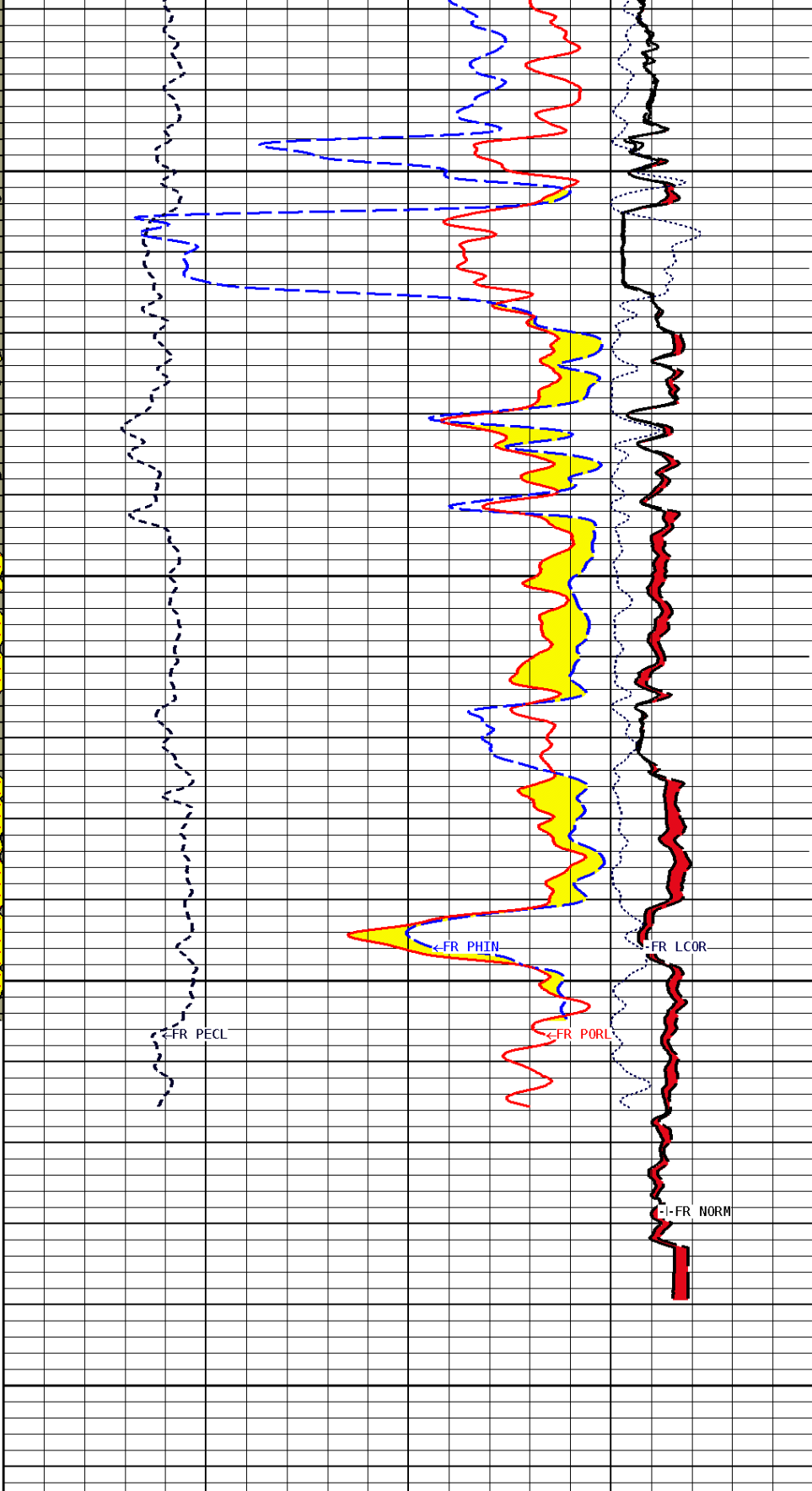
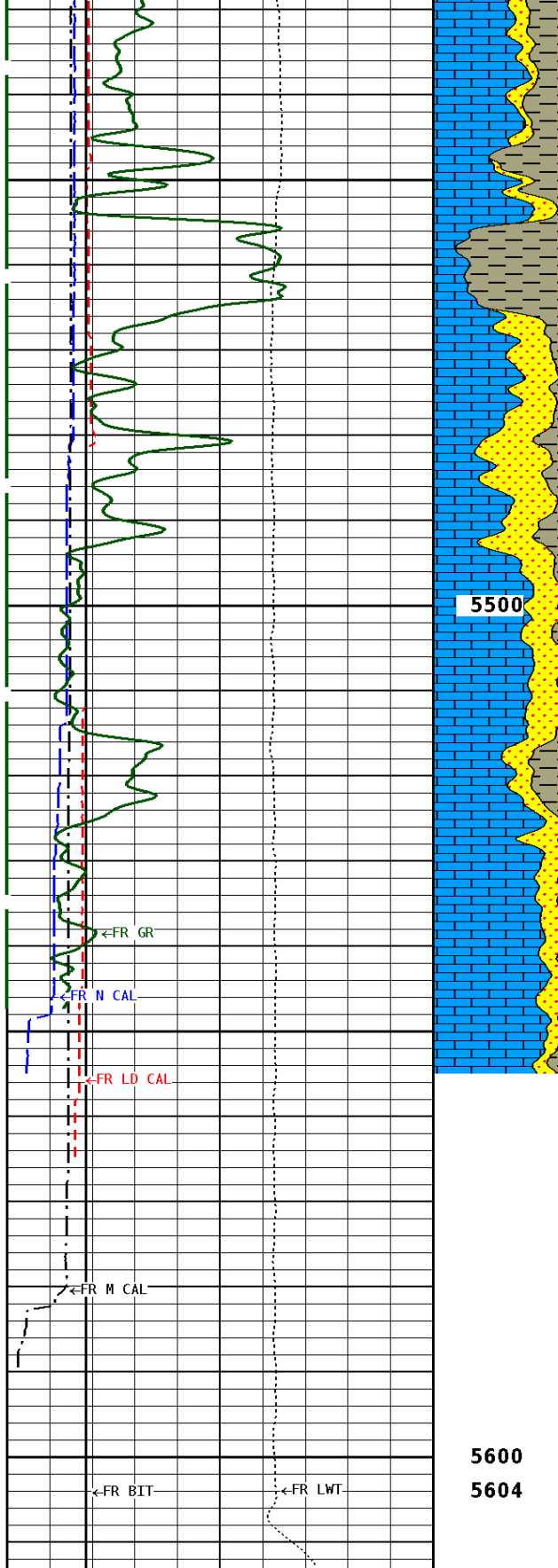




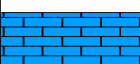
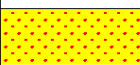






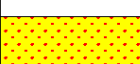


1:240 MAIN SECTION

GAMMA RAY API UNITS 150  300 0 150	Volume Dolo/Shale 	NEUTRON POROSITY (LIMESTONE) PERCENT 30 ----- -10	
TENSION LBS 10000 ----- 0	Volume Calcite 	DENSITY POROSITY (2.71g/cc) PERCENT 70 30 ----- -10 -50	
DENSITY (X) CALIPER INCHES (IN) 16 26 6 16 -----	Volume Quartz 	PE CROSS-SECTION BARNS/ELECTRON 0 ----- 10	DENSITY CORRECTION G/CC -0.25 ----- 0.25
NEUTRON (Y) CALIPER INCHES (IN) 16 26 6 16 -----			INVERSE OHMM 0 ----- 40
BIT SIZE INCHES (IN) 6 ----- 16			NORMAL OHMM 0 ----- 40
CALIPER MICRO INCHES (IN) 16 26 6 16 -----			

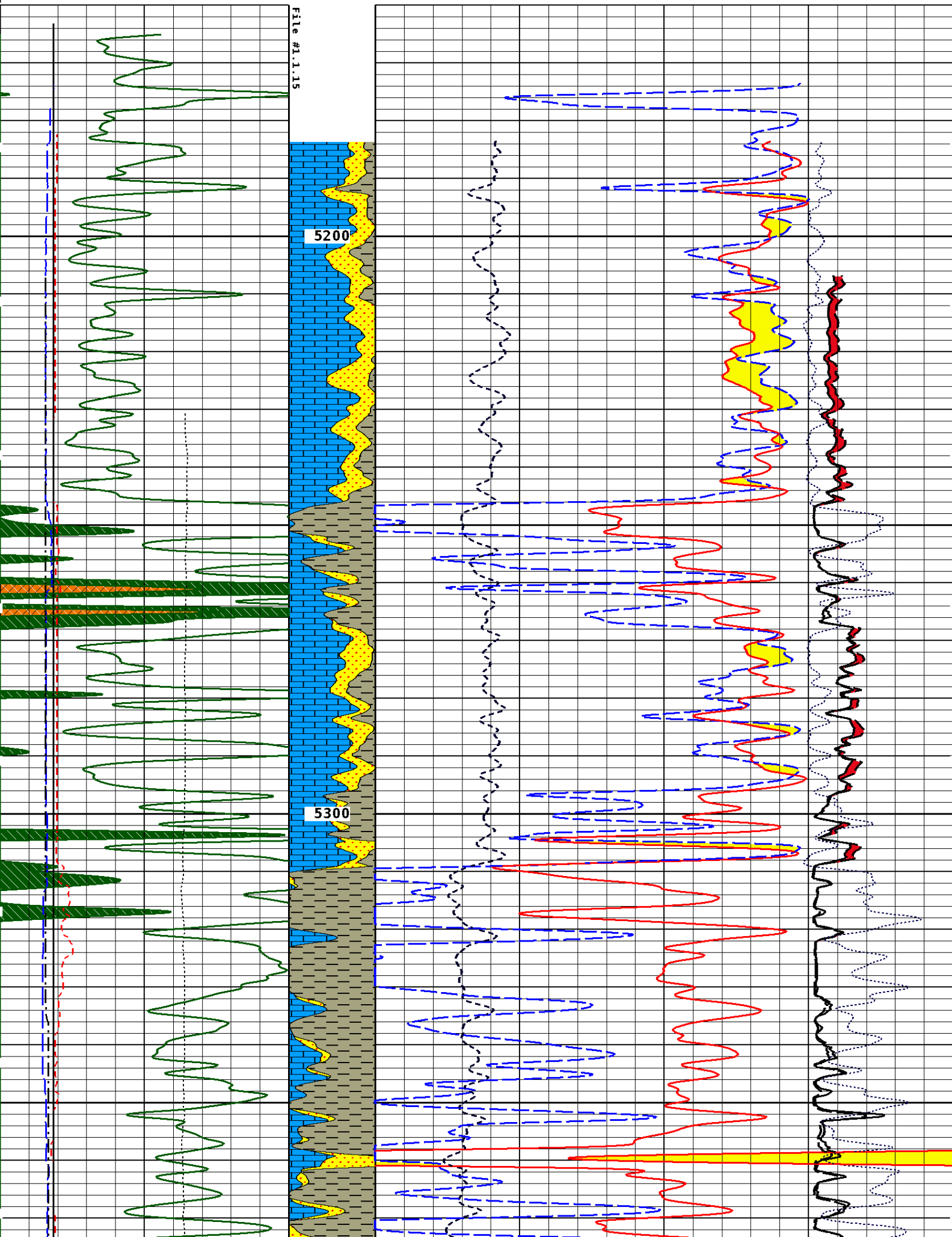
Well File: MERIT DANIELS 1-28 FEB-6_QST
Segment: V1.D1.S15 REPEAT FINAL
Reference: 0

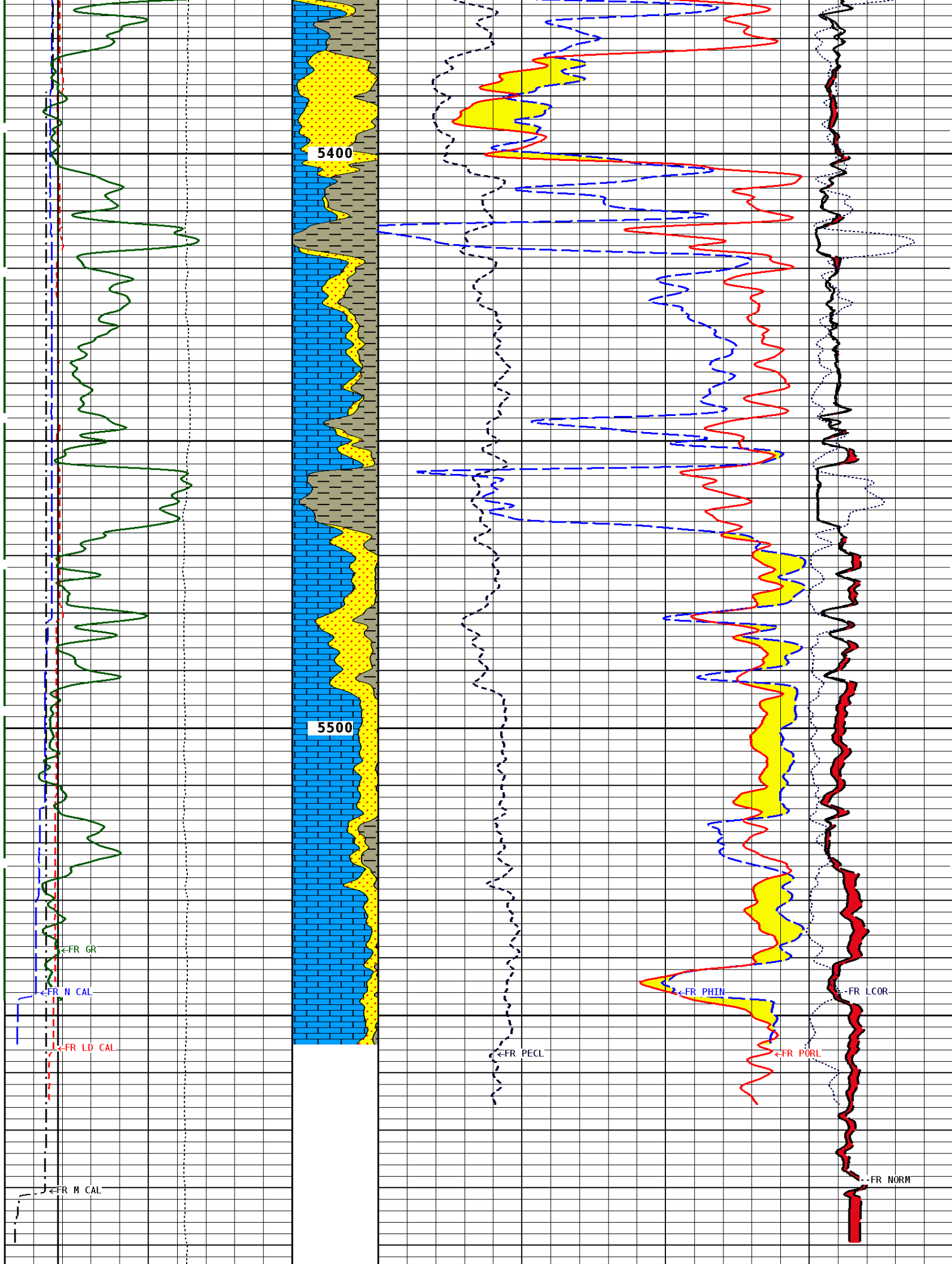
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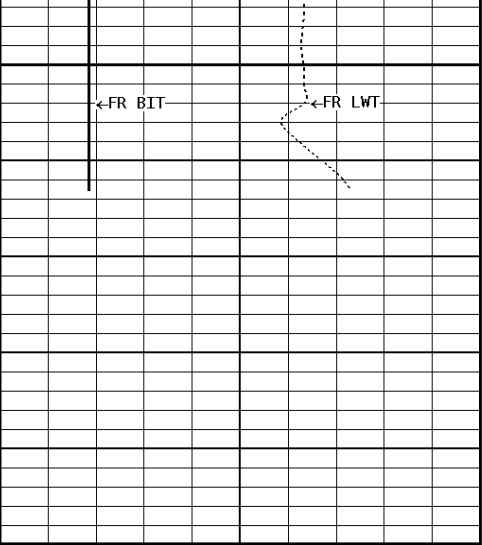
CALIPER MICRO INCHES (IN) 16 26 6 16 -----			
BIT SIZE INCHES (IN) 6 ----- 16			NORMAL OHMM 0 ----- 40
NEUTRON (Y) CALIPER INCHES (IN) 16 26 6 16 -----			INVERSE OHMM 0 ----- 40
DENSITY (X) CALIPER INCHES (IN) 16 26 6 16 -----	Volume Quartz 	PE CROSS-SECTION BARNS/ELECTRON 0 ----- 10	DENSITY CORRECTION G/CC -0.25 ----- 0.25
TENSION LBS 10000 ----- 0	Volume Calcite 	DENSITY POROSITY (2.71g/cc) PERCENT 70 30 ----- -10 -50	
GAMMA RAY API UNITS 150  300 0 150	Volume Dolo/Shale 	NEUTRON POROSITY (LIMESTONE) PERCENT 30 ----- -10	

1:240 REPEAT SECTION

File #1.1.15







5600
5604

File #1.1.15

1:240 REPEAT SECTION

GAMMA RAY API UNITS		Volume Dolo/Shale	NEUTRON POROSITY (LIMESTONE) PERCENT	
150 0	300 150		30	-10
TENSION LBS		Volume Calcite	DENSITY POROSITY (2.71g/cc) PERCENT	
10000	0		70 30 -10	30 -10 -50
DENSITY (X) CALIPER INCHES (IN)		Volume Quartz	PE CROSS-SECTION BARNs/ELECTRON	DENSITY CORRECTION G/CC
16 6	26 16		0 10	-0.25 0.25
NEUTRON (Y) CALIPER INCHES (IN)				
16 6	26 16			
BIT SIZE INCHES (IN)				
6	16			
CALIPER MICRO INCHES (IN)				
16 6	26 16			

* Borehole Zone Factors *

Zone 1 99999.0 to 0.0 Feet		
Matrix Density	2.71	g/cc
Fluid Density	1.00	g/cc
Formation Matrix	Limestone	
Drill Bit Size	7.875	in
Casing Diameter	5.500	in
Casing Thickness	0.250	in
Casing Correction (PHI N)	Disable	

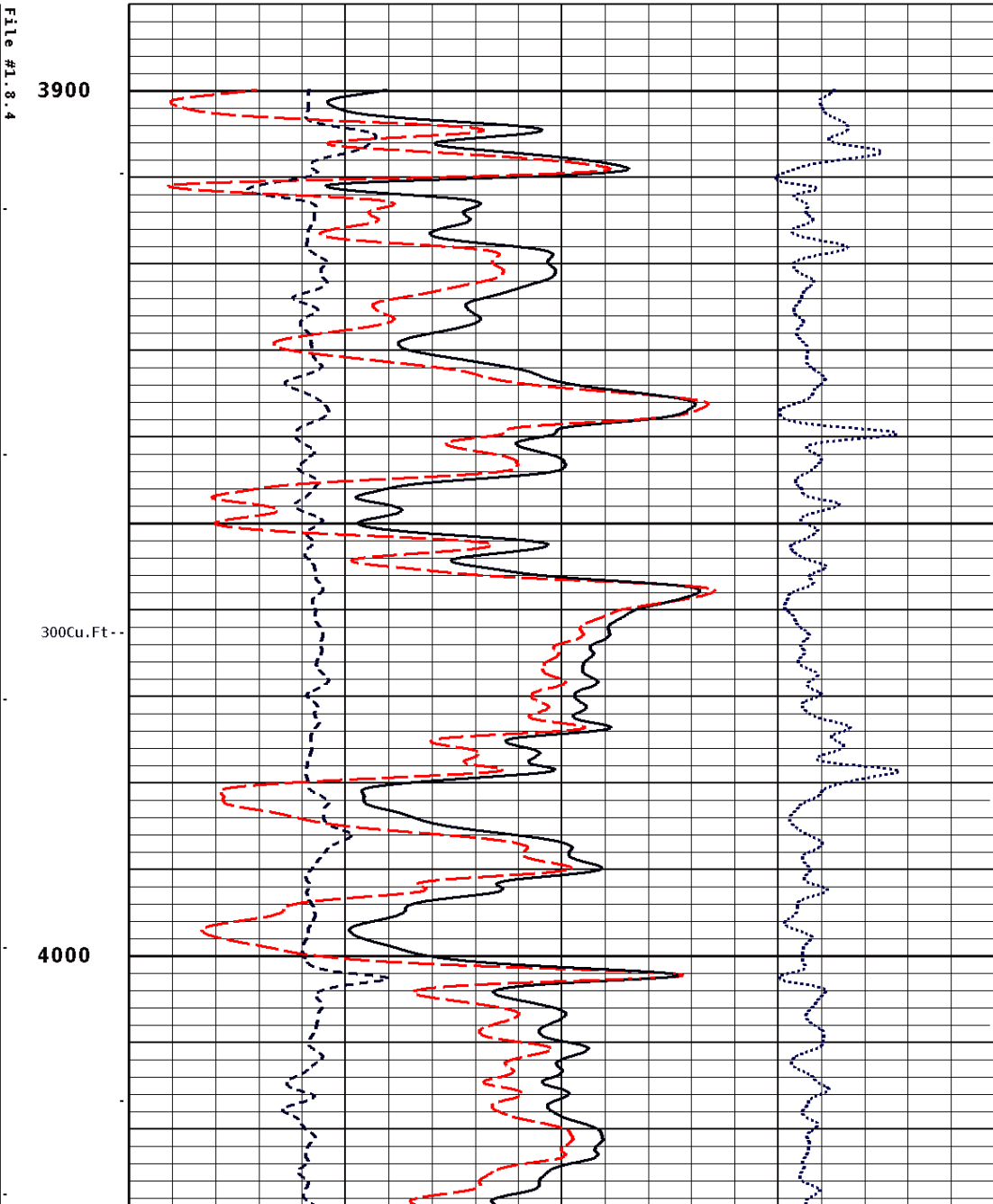
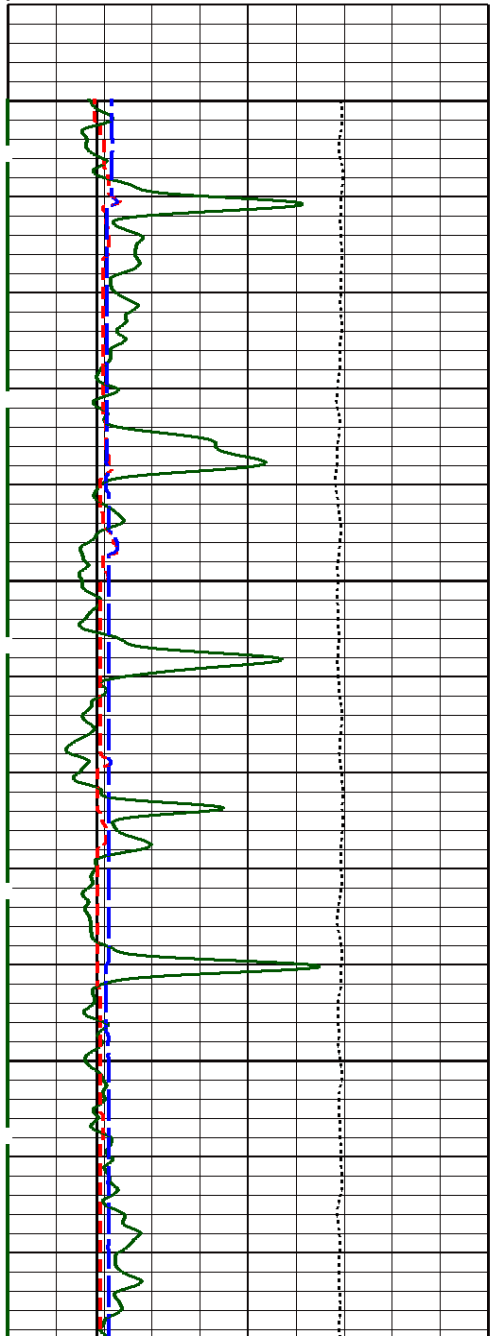
Well File: MERIT DANIELS 1-28 FEB-6_QST	Scale: 1:240	Format: LDT-240
Segment: V1.D8.S4 MAIN FINAL	Acquired: Not Available	
Reference: 0	Processed: Not Available	

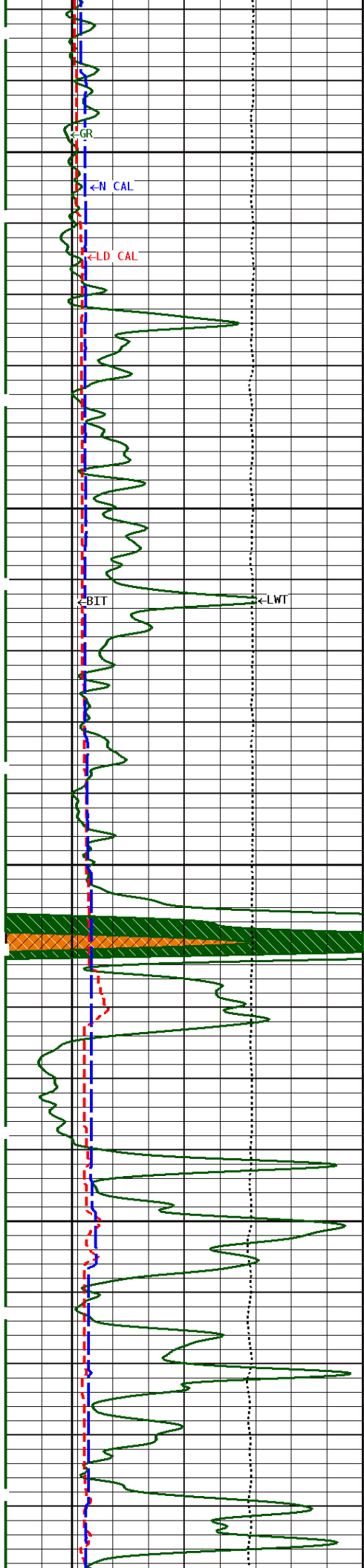
BIT SIZE INCHES (IN)
6 16

NEUTRON (Y) CALIPER INCHES (IN)	
16 6	26 16
DENSITY (X) CALIPER INCHES (IN)	
16 6	26 16
TENSION LBS	
10000	0
GAMMA RAY API UNITS	
150 0	300 150

PE CROSS-SECTION BARN/ ELECTRON	DENSITY CORRECTION G/CC
0 10	-0.25 0.25
COMPENSATED BULK DENSITY G/CC	
3.0 2.0 1.0	4.0 3.0 2.0
DENSITY POROSITY (2.71g/cc) PERCENT	
70 30 -10	30 -10 -50

1:240 MAIN SECTION
BULK DENSITY

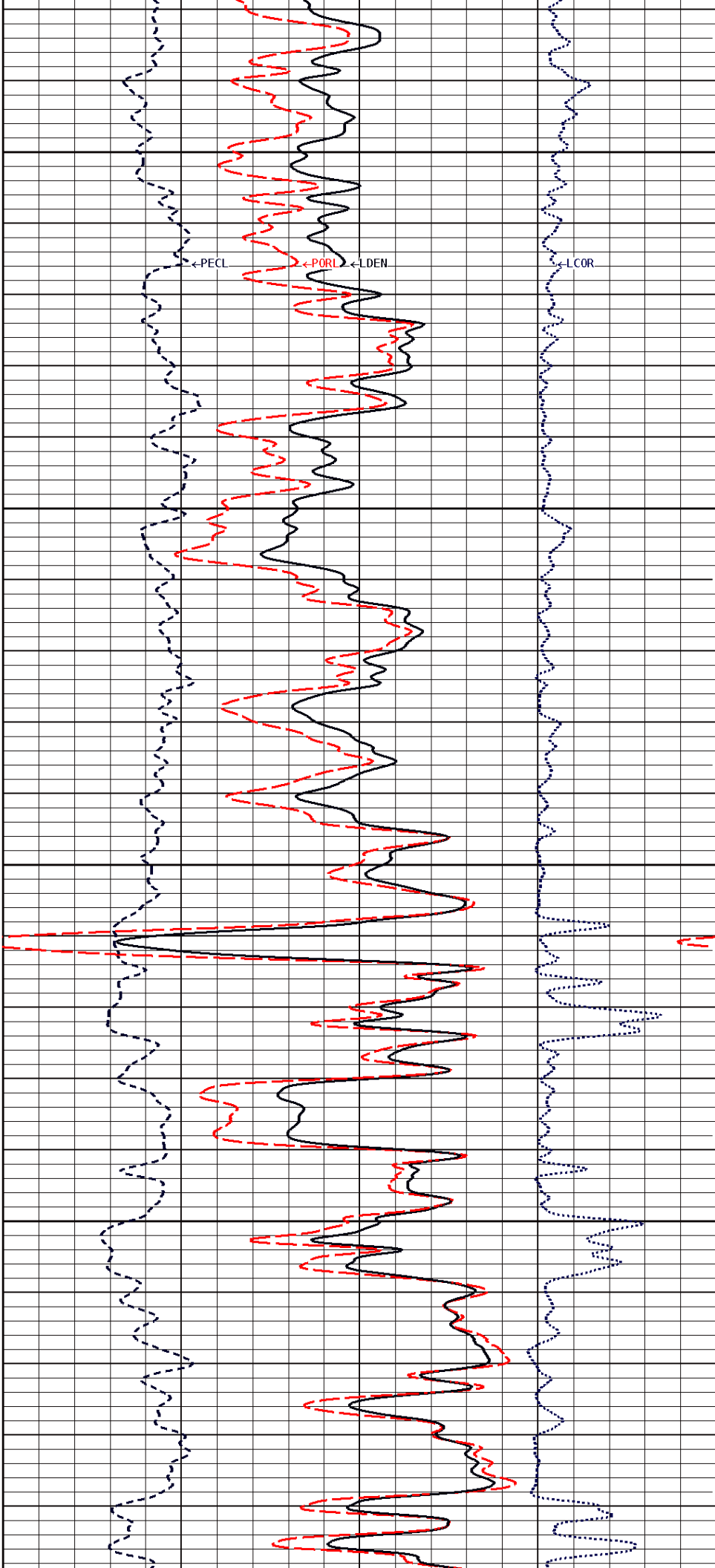


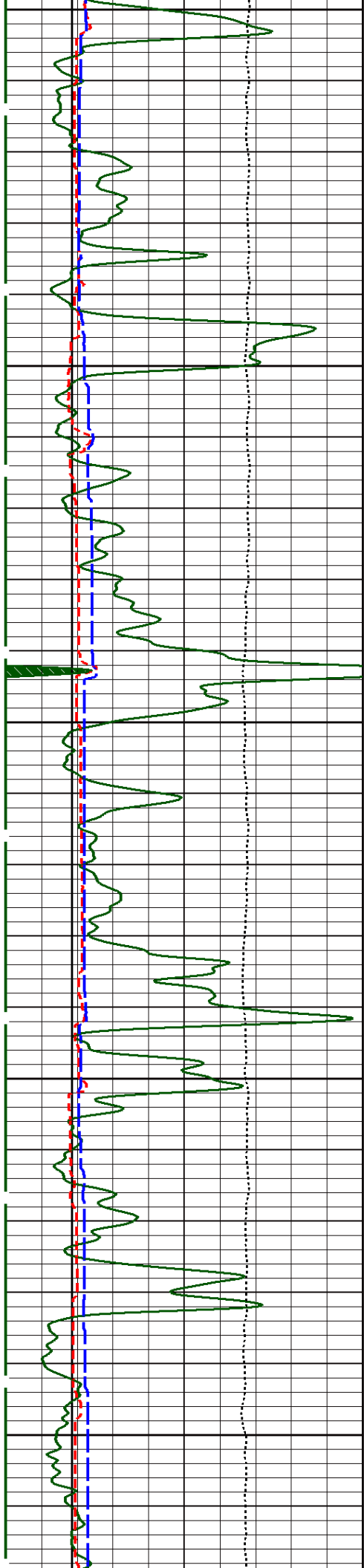


4100

500Cu.Ft

4200



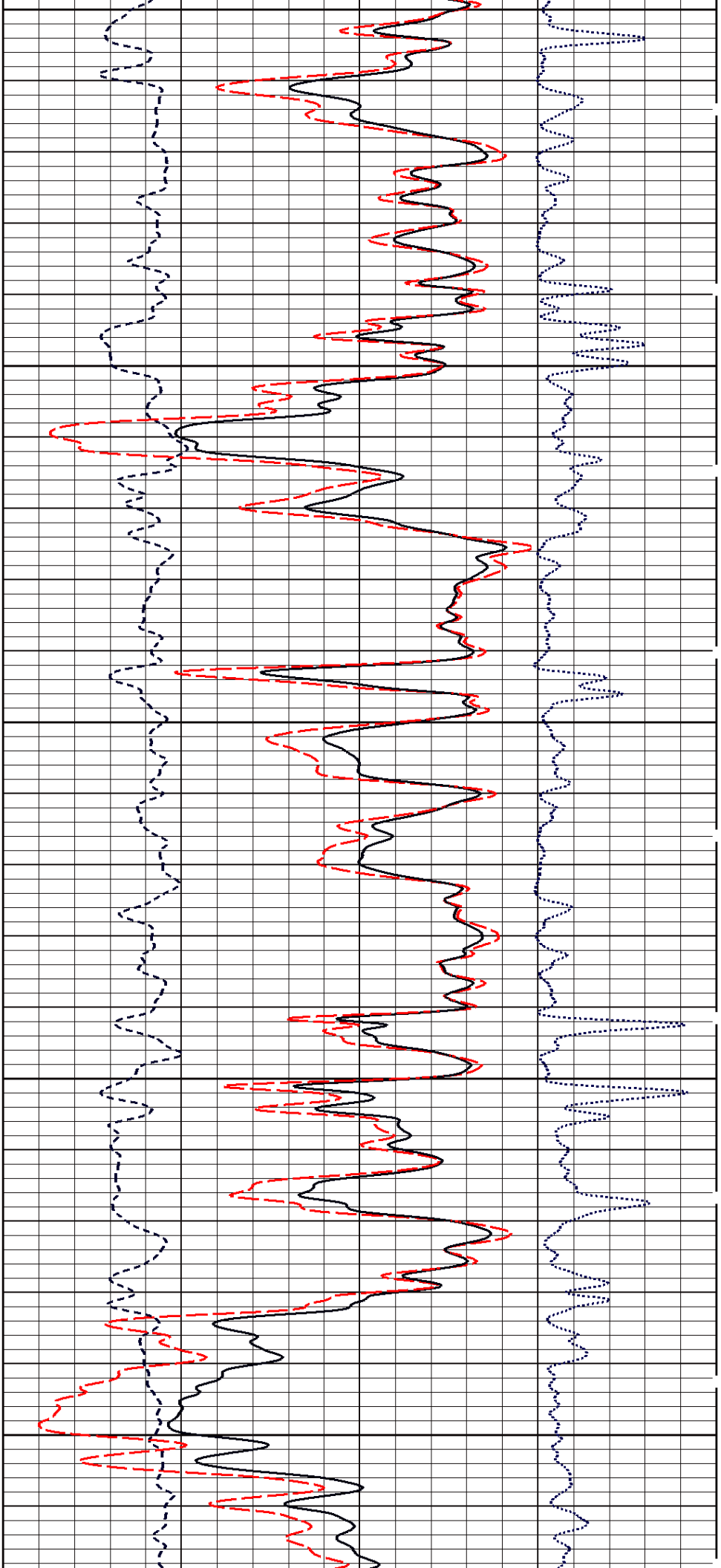


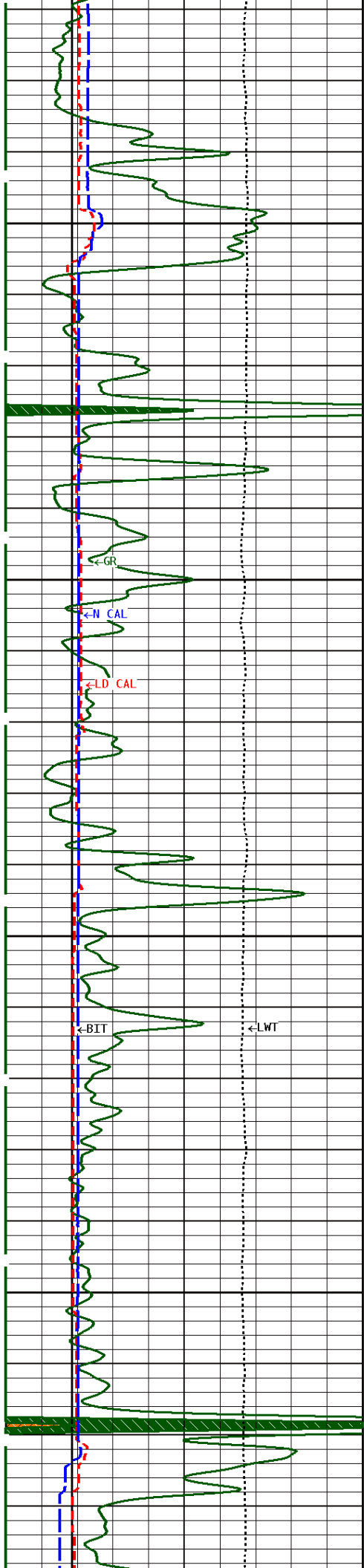
4300

4400

--400Cu.Ft--

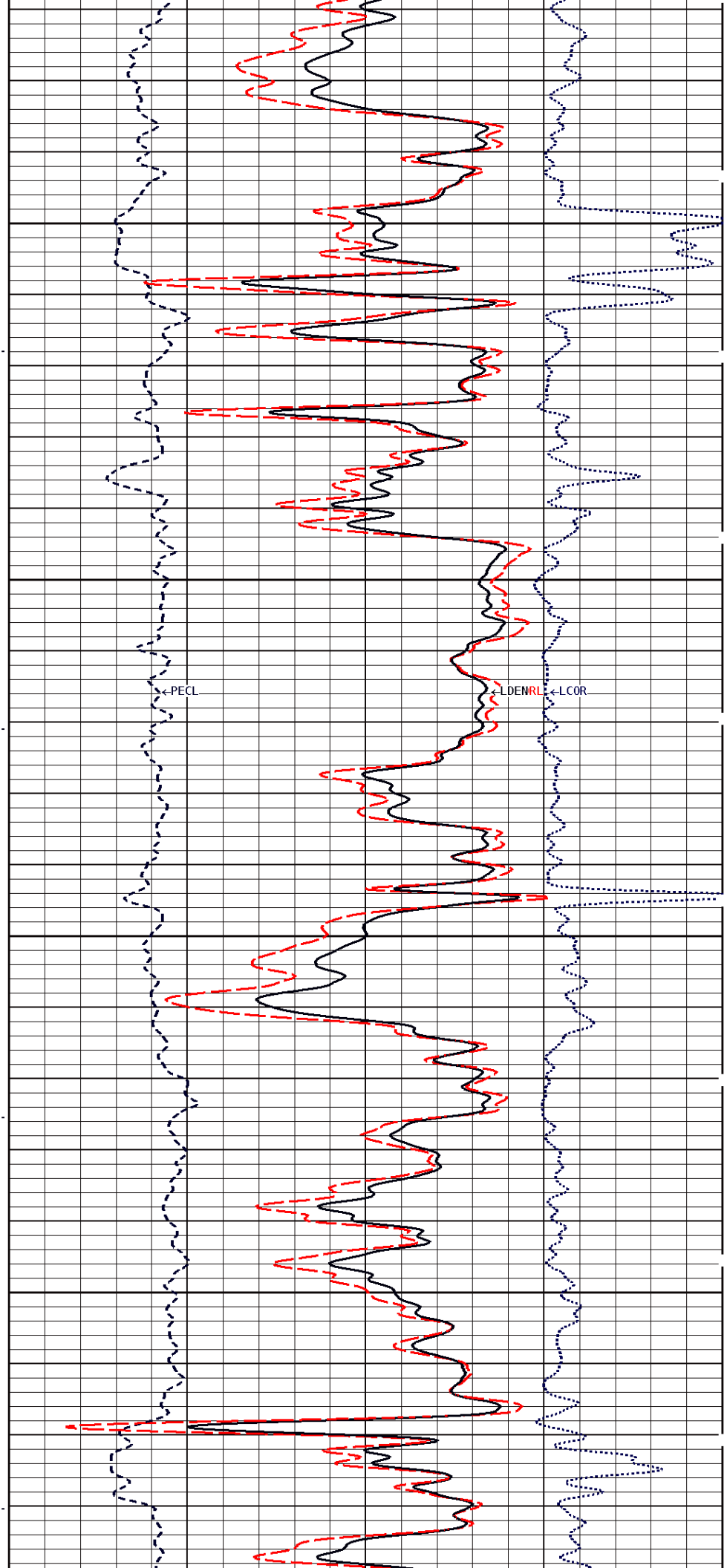
200Cu.Ft--

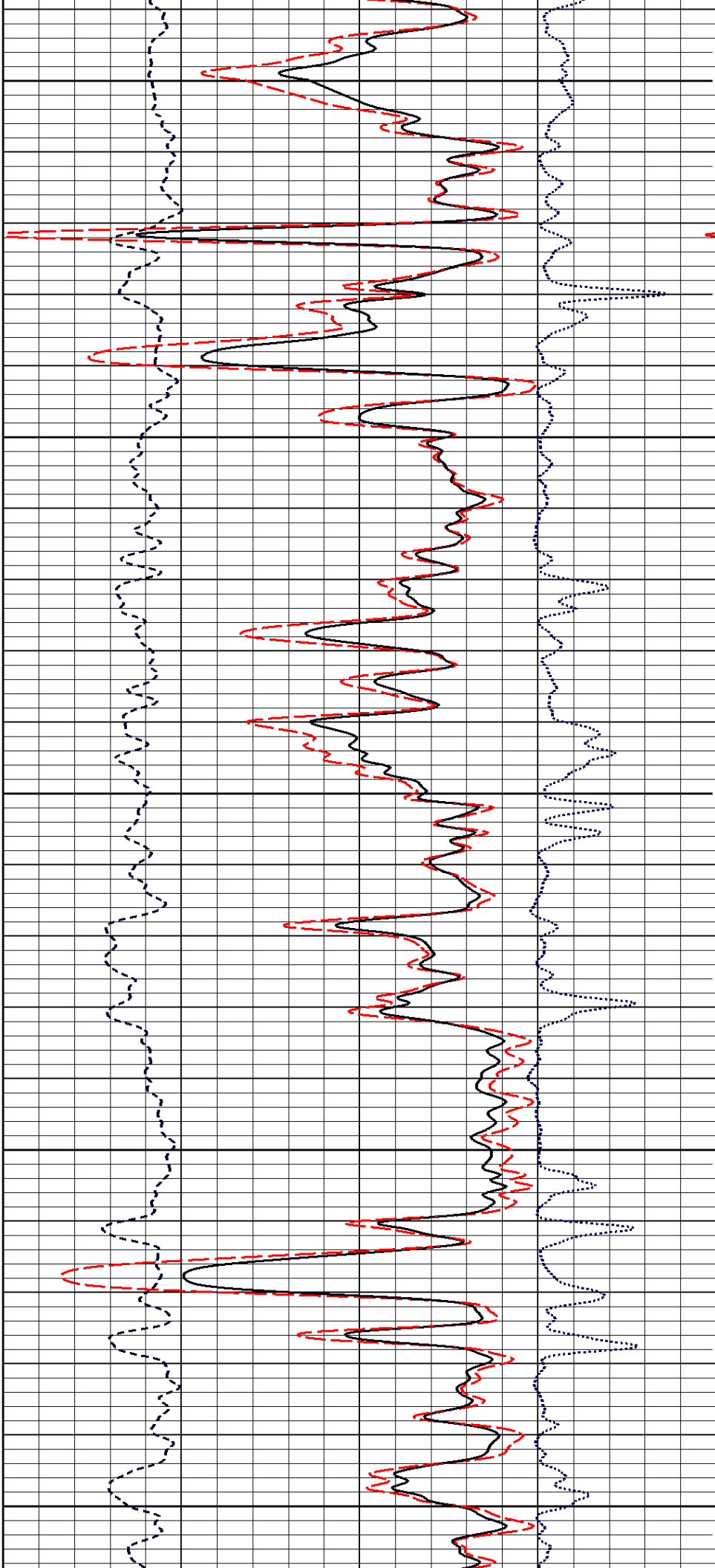
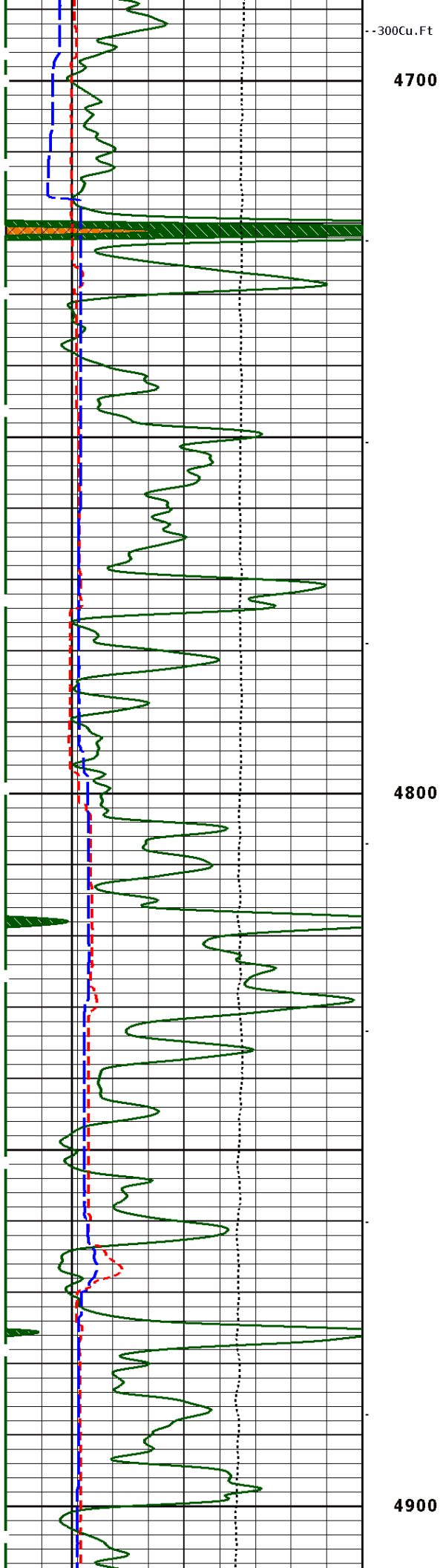


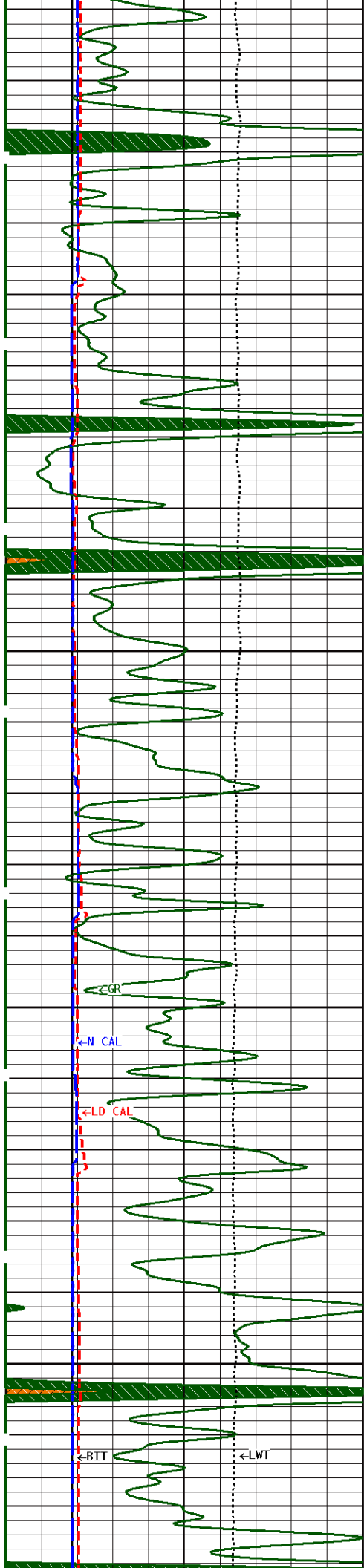


4500

4600





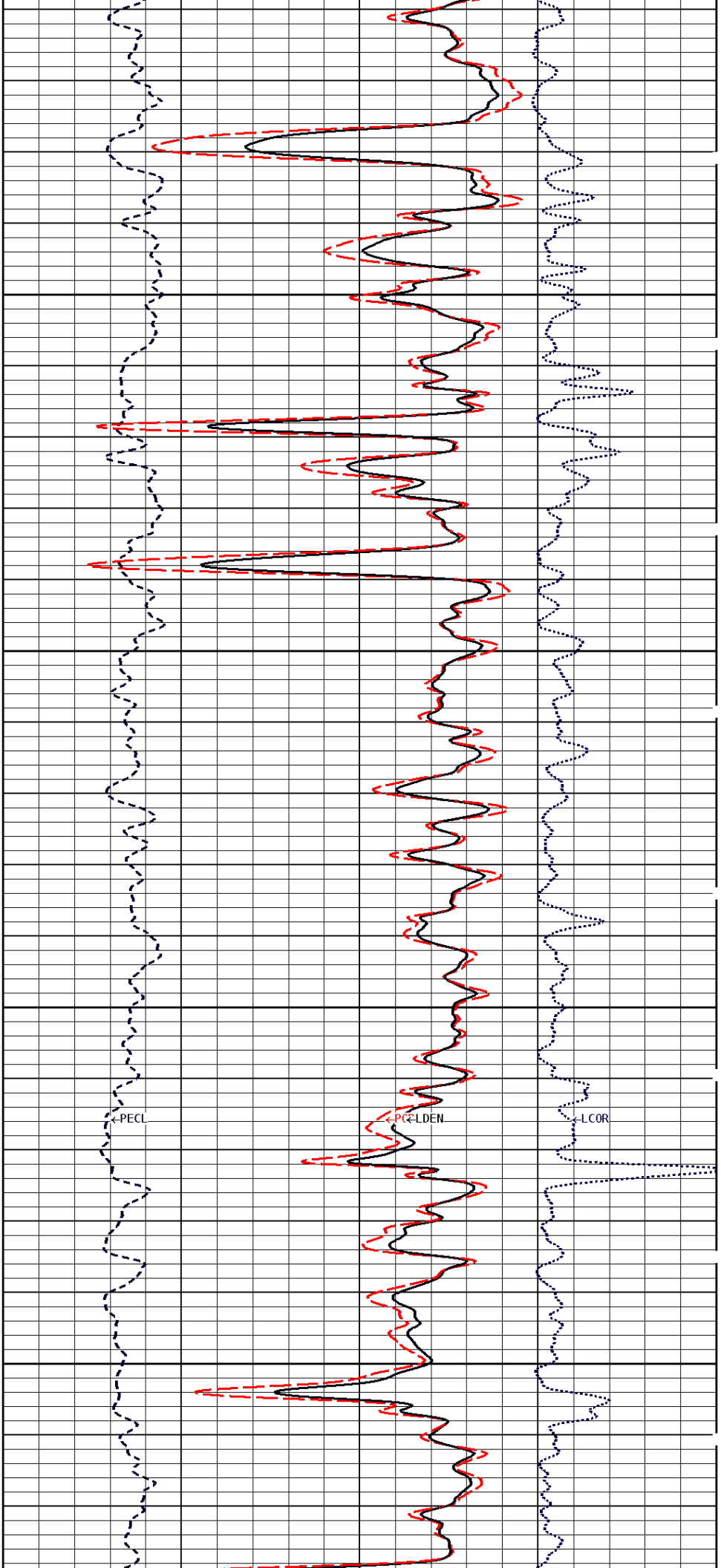


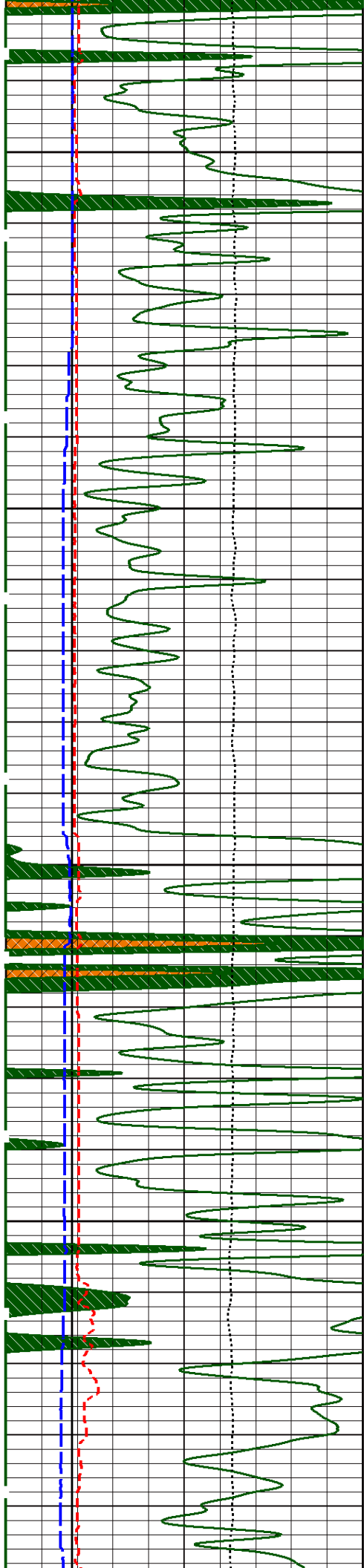
--200Cu.Ft--

100Cu.Ft--

5000

5100

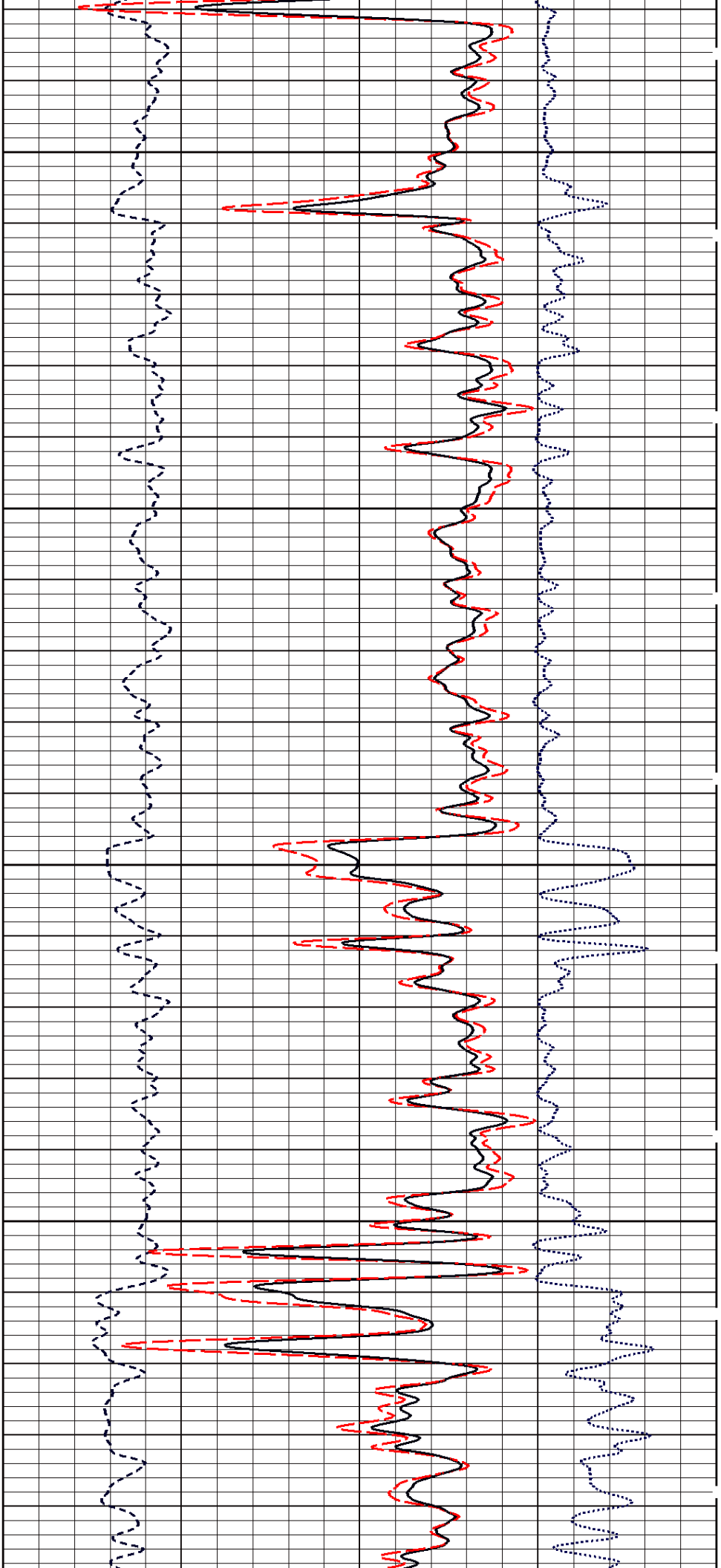


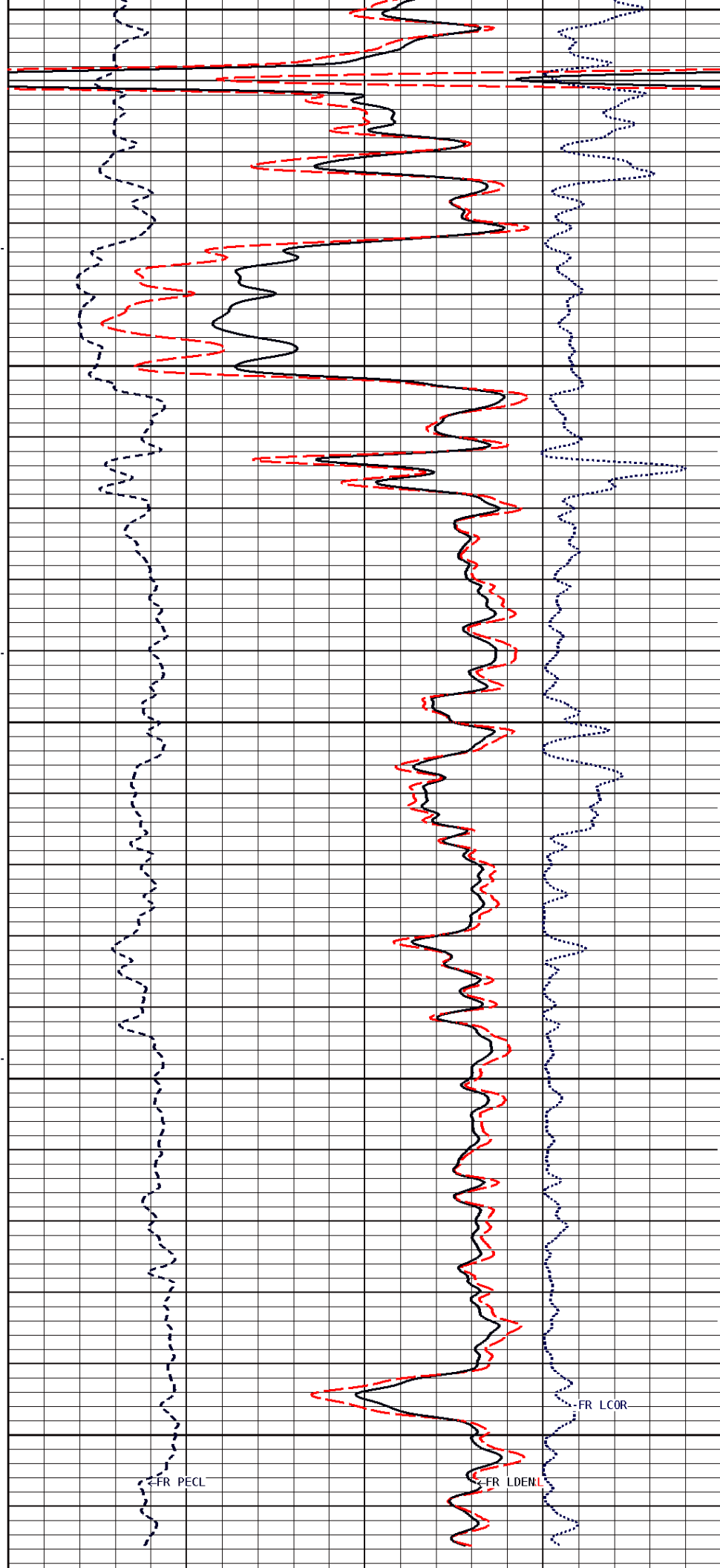
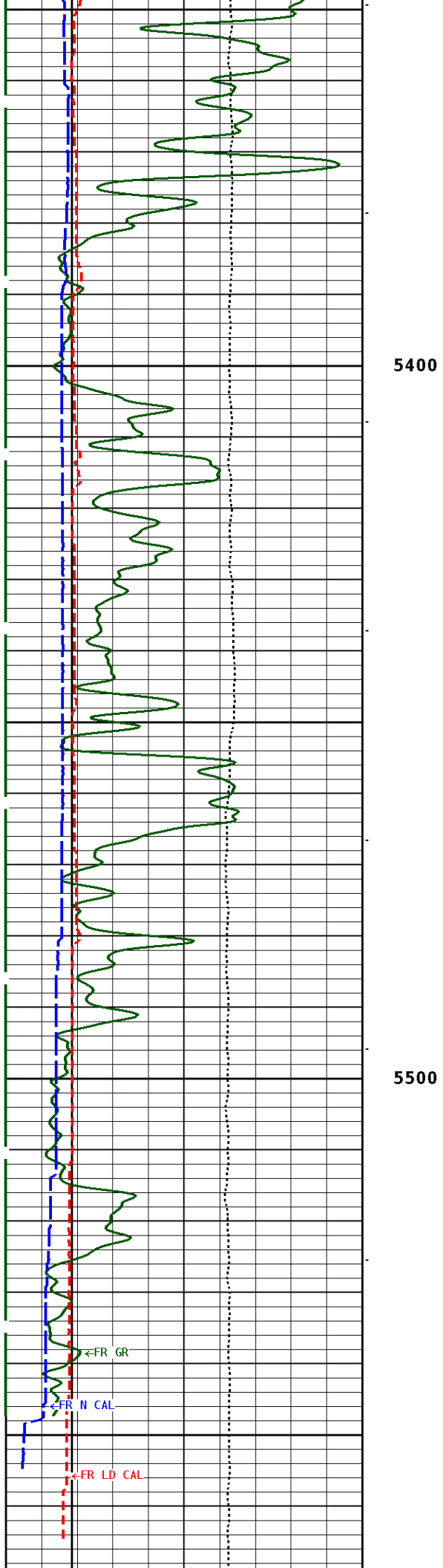


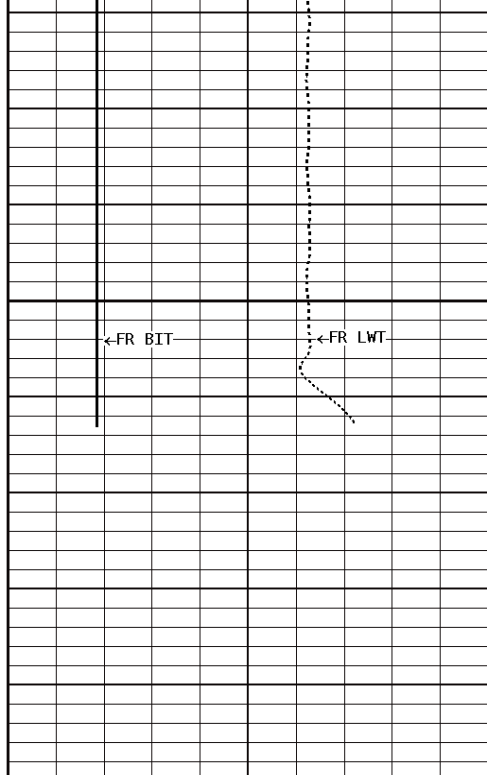
5200

-100Cu.Ft

5300







5600
5604

1:240 MAIN SECTION

BULK DENSITY

GAMMA RAY API UNITS 150 0 300 150	
TENSION LBS 10000 0	
DENSITY (X) CALIPER INCHES (IN) 16 6 26 16	
NEUTRON (Y) CALIPER INCHES (IN) 16 6 26 16	
BIT SIZE INCHES (IN) 6 16	

- BHV AHV -
CU. FT

DENSITY POROSITY (2.71g/cc)
PERCENT

70	30
30	-10
-10	-50

COMPENSATED BULK DENSITY
G/CC

3.0	4.0
2.0	3.0
1.0	2.0

PE CROSS-SECTION
BARN/ ELECTRON

DENSITY CORRECTION
G/CC

0	10	-0.25	0.25
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Company: MERIT ENERGY COMPANY, LLC

Well: DANIELS #1-28

Location: 1879' FEL & 2288' FNL

Logged: 02-06-2020

K.B. Elev: 2985.0 Ft