

Tucker

WIRELINE SERVICES

COMPENSATED NEUTRON
PEL DENSITY LOG

File No. : TUL-55288
Company : BECKER OIL CORP
Well : SHRIMISE #1
Field : WILDCAT
County : HODGEMAN
State : KANSAS
Country : USA

Location : API # 15-083-2163
1800' FSL & 13850' FEL
NE SE NW SE

Sect : 12 Twp : 24S Rge : 24W

Recorded By : T. MONTGOMERY
Witnessed By : C. BECKER

Date : APR 17 2010
Run No. : 1

Permanent Datum : GL
Drilling Measured From : KB
Log Measured From : KB
Above Permanent Datum : 8.00 FT

Depth--Driller : 4880.0 FT
Depth--Logger : 4881.0 FT
Bottom Log Interval : 4844.0 FT
Top Log Interval : 370.0 FT

Casing Depth--Driller : 372.0 FT
Casing Depth--Logger : 370.0 FT
Casing Diameter : 8.625 IN

Bit Size : 7.875 IN
Unit No. : 125
Location : OKC

Elevations :
KB : 2475.00 FT
DF : 2474.00 FT
GL : 2467.00 FT

Additional Services

PIT
CST

The customer is hereby warned that by providing the log data herein, T. W. S. does not agree to provide any interpretation of log data, conversion of log data to physical rock parameters or recommendations. T. W. 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. W. 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. W. 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.

Run Number 1

Depth To Fluid 0.0 FT
Fluid Type In Hole : CHEMICAL
Density : 9.200 LBS/GAL
Viscosity : 48.000 SEC/QT
pH : 9.500
Fluid Loss : 8.400 mL/30min
Salinity : 0.000

RM Source : MEASURED
RM : 1.400 OHMM at 70 F
RM at BHT : 1.073 OHMM at 120 F

RMF Source : CALCULATED
RMF : 1.190 OHMM at 70 F
RMF at BHT : 0.858 OHMM at 120 F

RMC Source : CALCULATED
RMC : 1.610 OHMM at 70 F
RMC at BHT : 0.858 OHMM at 120 F

RMC :	1.610	OHMM at	70	F
RMC at BHT :	1.287	OHMM at	120	F
Max Recorded Temp. :			120	F
Time Circulation Stopped :	DEC 20 2009 @ 15:00			
Operating Rig Time, Hrs. :	3.0			

- Source Serial Numbers -

Gamma	CSV-C2
Neutron	N-1043

- Sonde Serial Numbers -

GRTB	GRT-BA-017
CNT	CNP-AA-106
LDTNG	LDP-DA-065
CST	CST-AB-003
PIT_B	PIT-AB-005

Casing Strings

Size (IN)	Weight (LB/FT)	Bottom (FT)
8.625	24.00	372.00

- Comments -

ALL PRESENTATIONS AS PER CLIENT REQUEST.

GRT, CNT, LDT, CST, PIT RAN IN COMBINATION.
 2.71 G/CC DENSITY MATRIX USED TO CALCULATE POROSITY.
 4.50" PRODUCTION CASING USED TO CALCULATE ANNULAR HOLE VOLUME.
 NO STANDOFF DEPLOYED ON PIT TOOL.
 CALIPERS ORIENTED ON THE X-Y AXIS.
 PHIN IS CALIPER CORRECTED.
 DETAIL PRESENTED FROM TD UP TO 2881'.
 DETAIL PRESENTED FROM TD 2500' TO 2800'.

GRP - GRP

CNT - PHIN, CLCNIN

LDT - LDEN, PECL, LCOR, PORL, CLLDIN

MINERAL VOLUME - VM31, VM33

CST- PORS,ITT, TT1, TT3

PIT - SFLAEC, ILDEC, CIRDEC, PIRMDS, SPU
 THANK YOU FOR CHOOSING TUCKER WIRELINE SERVICES!

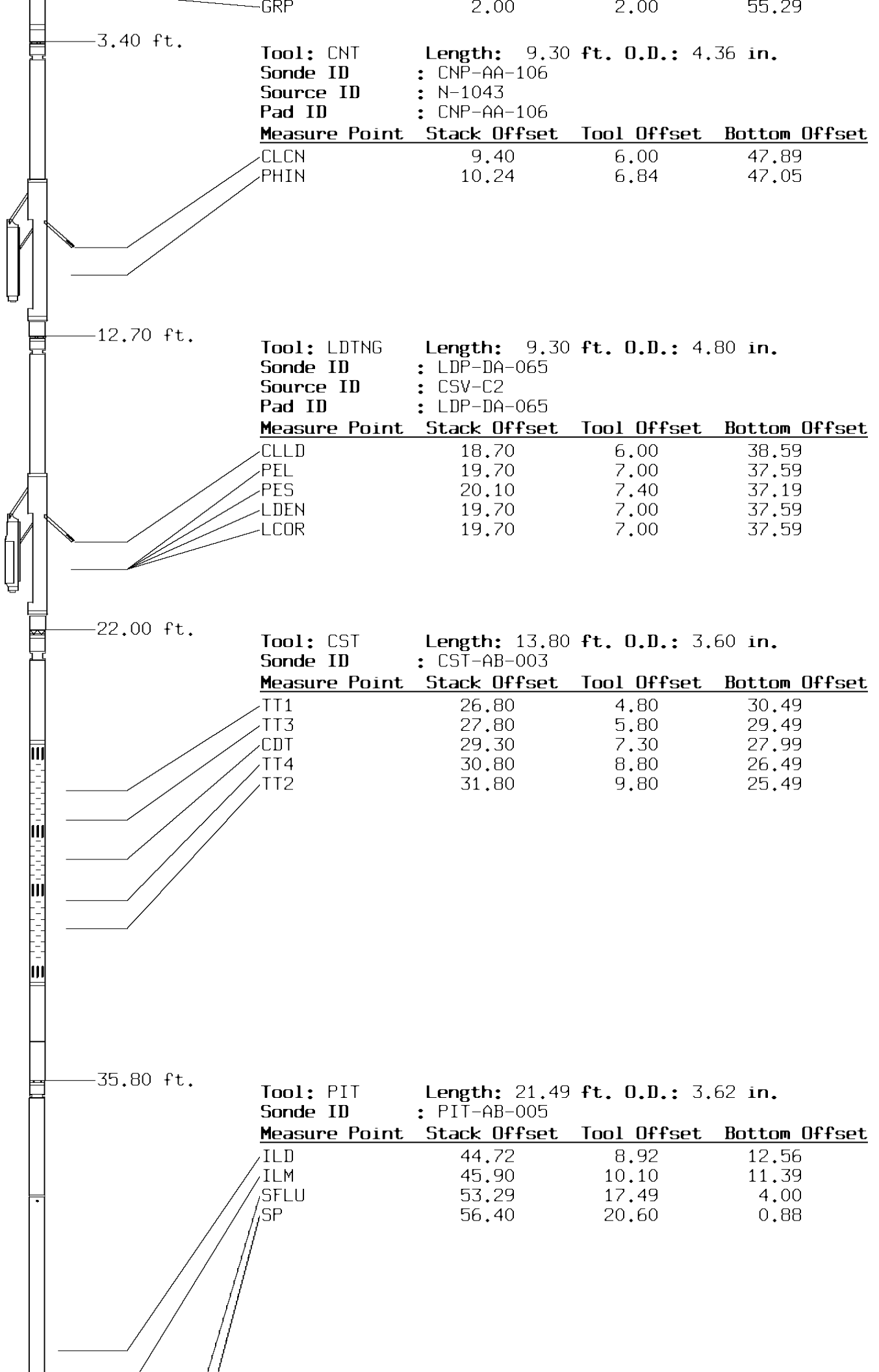
C. VANCE

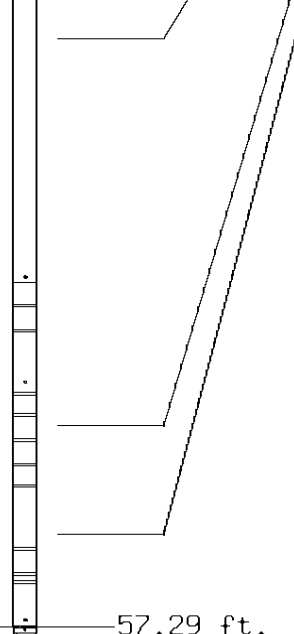
Tool String Schematic

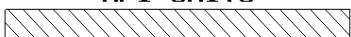
Total Tool Length -	57.29 ft.
Maximum Outside diameter -	4.80 in.
Net Weight in Air -	971.00 lbs.



Tool: GRTB	Length: 3.40 ft.	O.D.: 3.60 in.
Sonde ID	: GRT-BA-017	
Measure Point	Stack Offset	Tool Offset
GRP	3.00	55.29



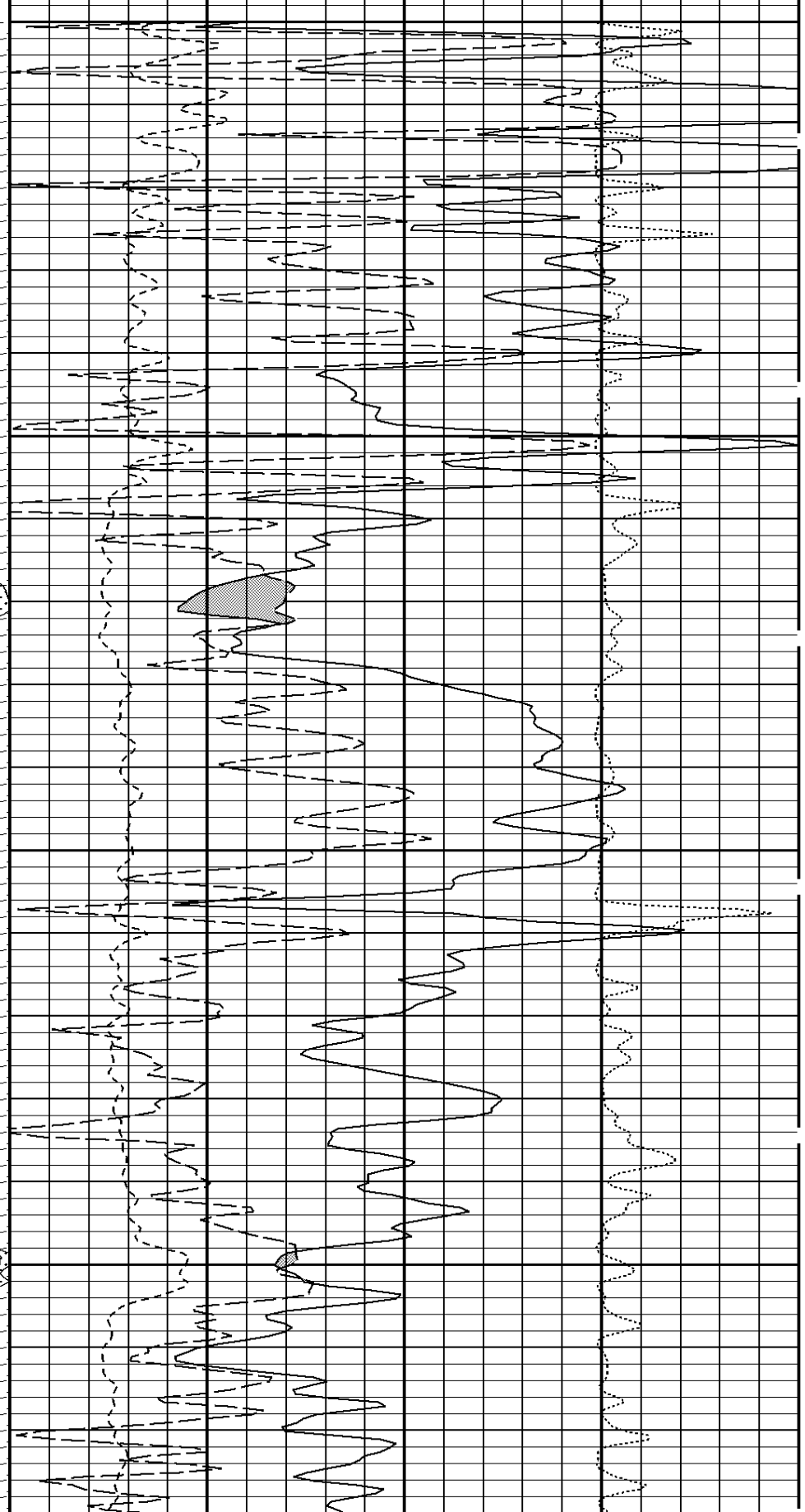
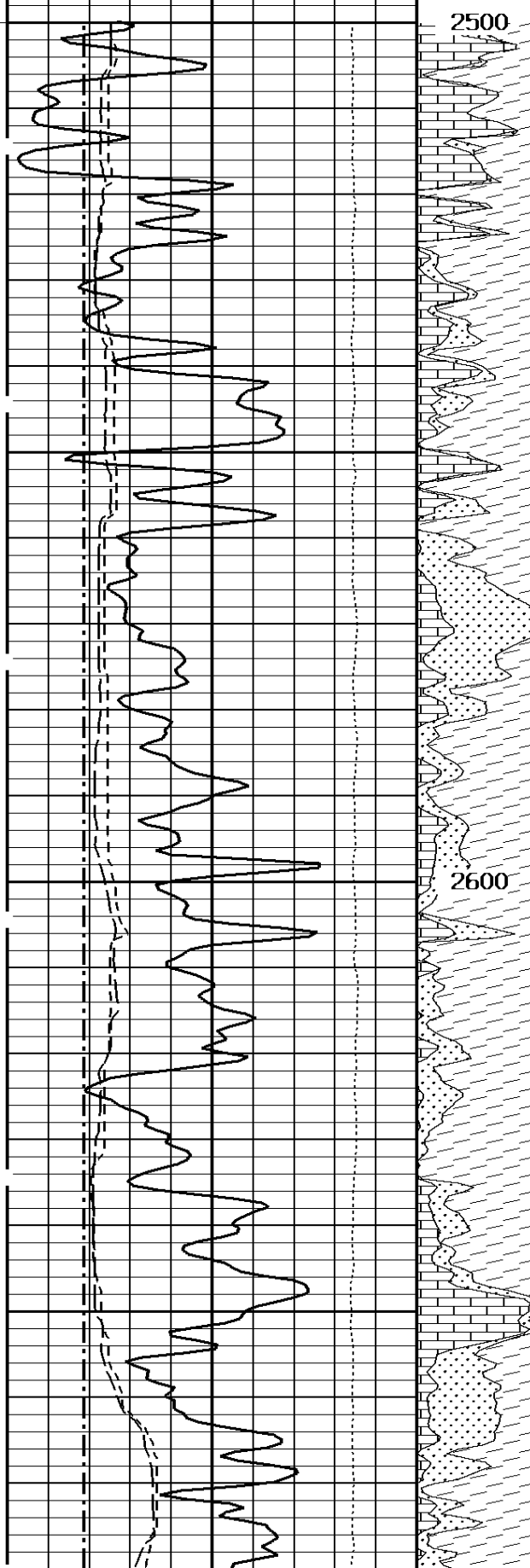


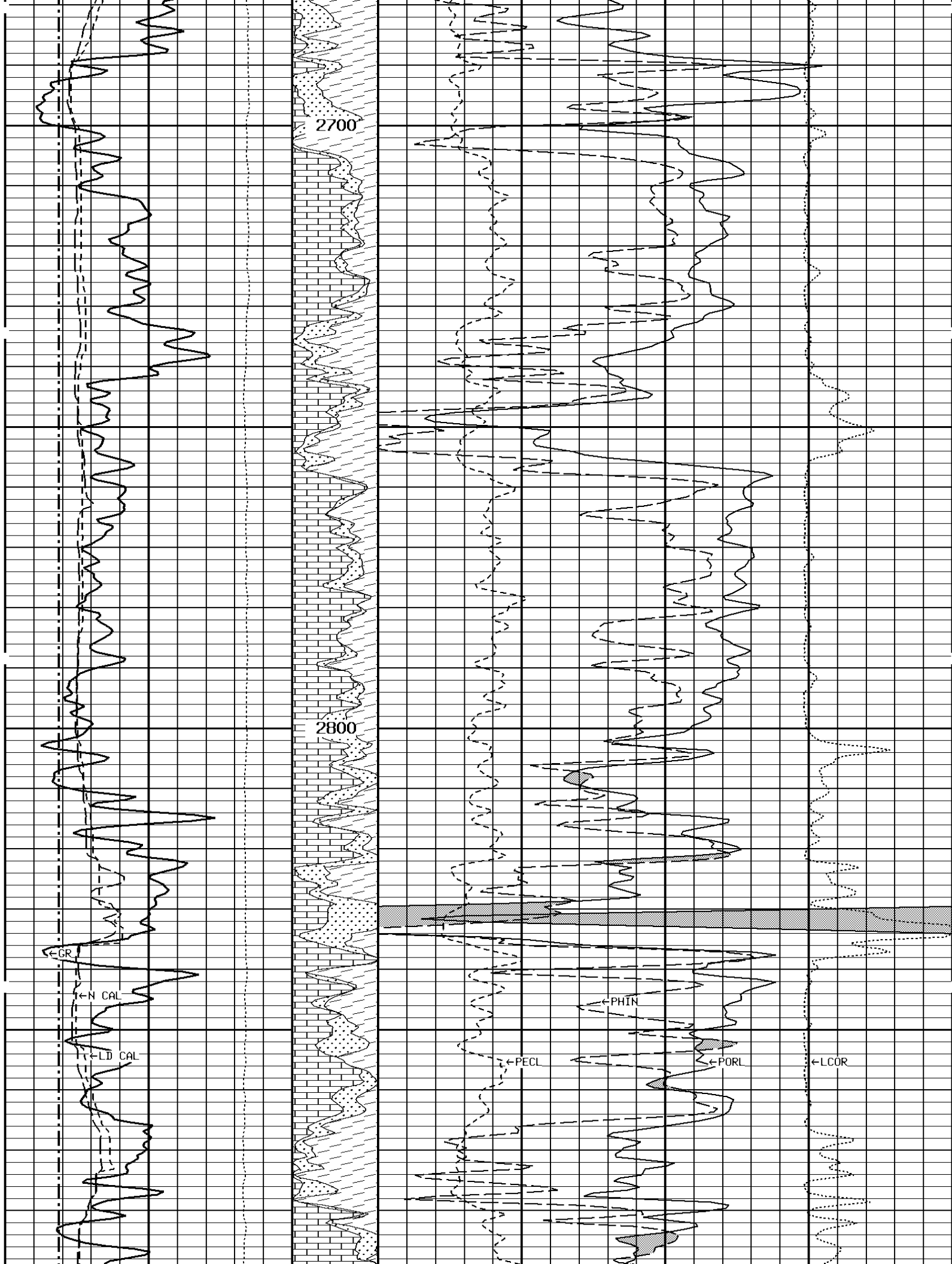
TENSION LBS		
10000		0
BIT SIZE INCHES (IN)		
6		16
DENSITY (X) CALIPER INCHES (IN)		
16		26
6		16
NEUTRON (Y) CALIPER INCHES (IN)		
16		26
6		16
GAMMA RAY API UNITS		
150		300
0		150

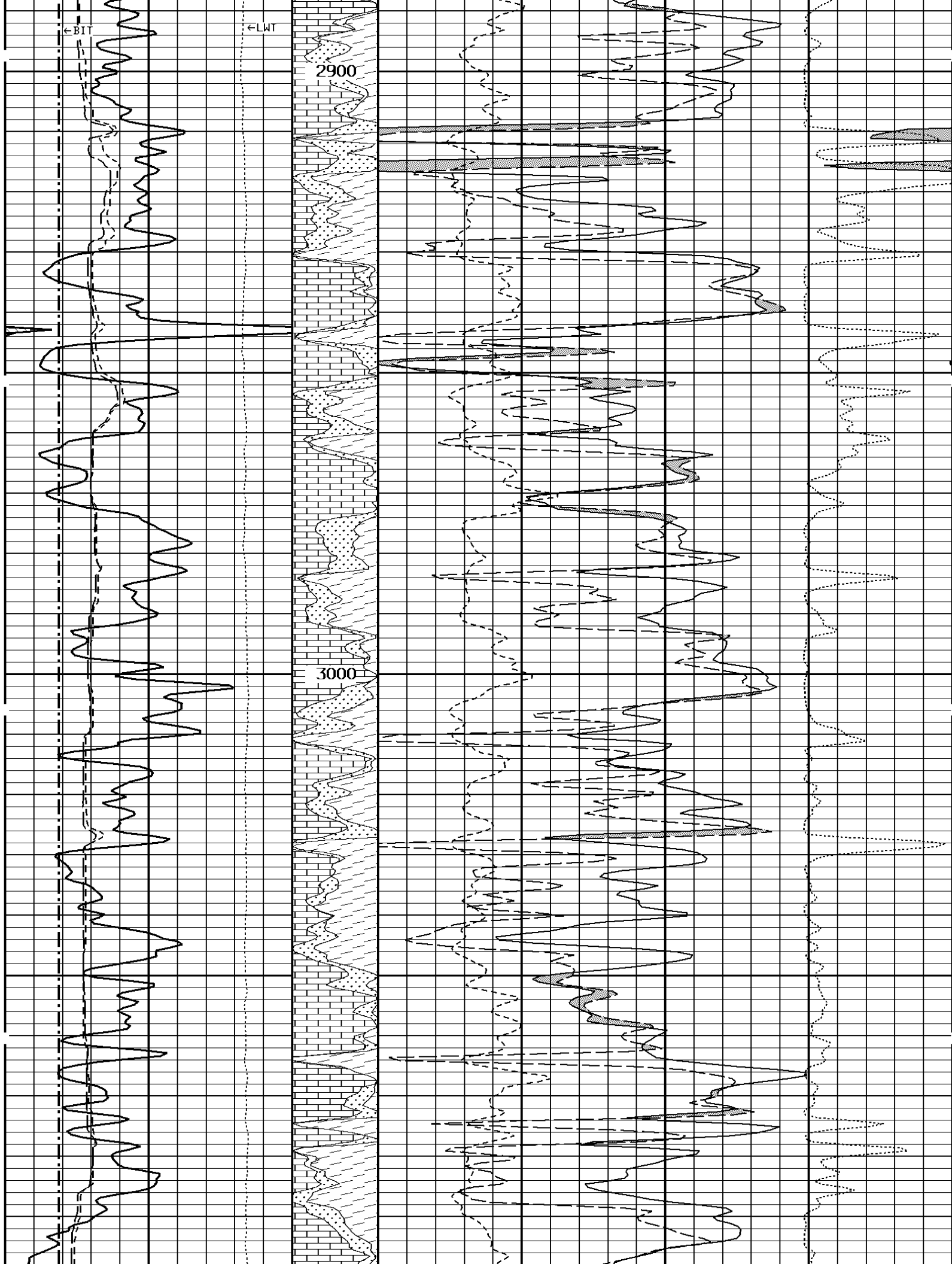
PE CROSS-SECTION BARNs/ELECTRON		DENSITY CORRECTION G/CC	
0	10	-0.25	0.25
NEUTRON POROSITY PERCENT (LIMESTONE MATRIX)			
30			-10
DENSITY POROSITY PERCENT (2.71 g/cc)			
70			30
30			-10

1:240 MAIN SECTION

[illegible][illegible]



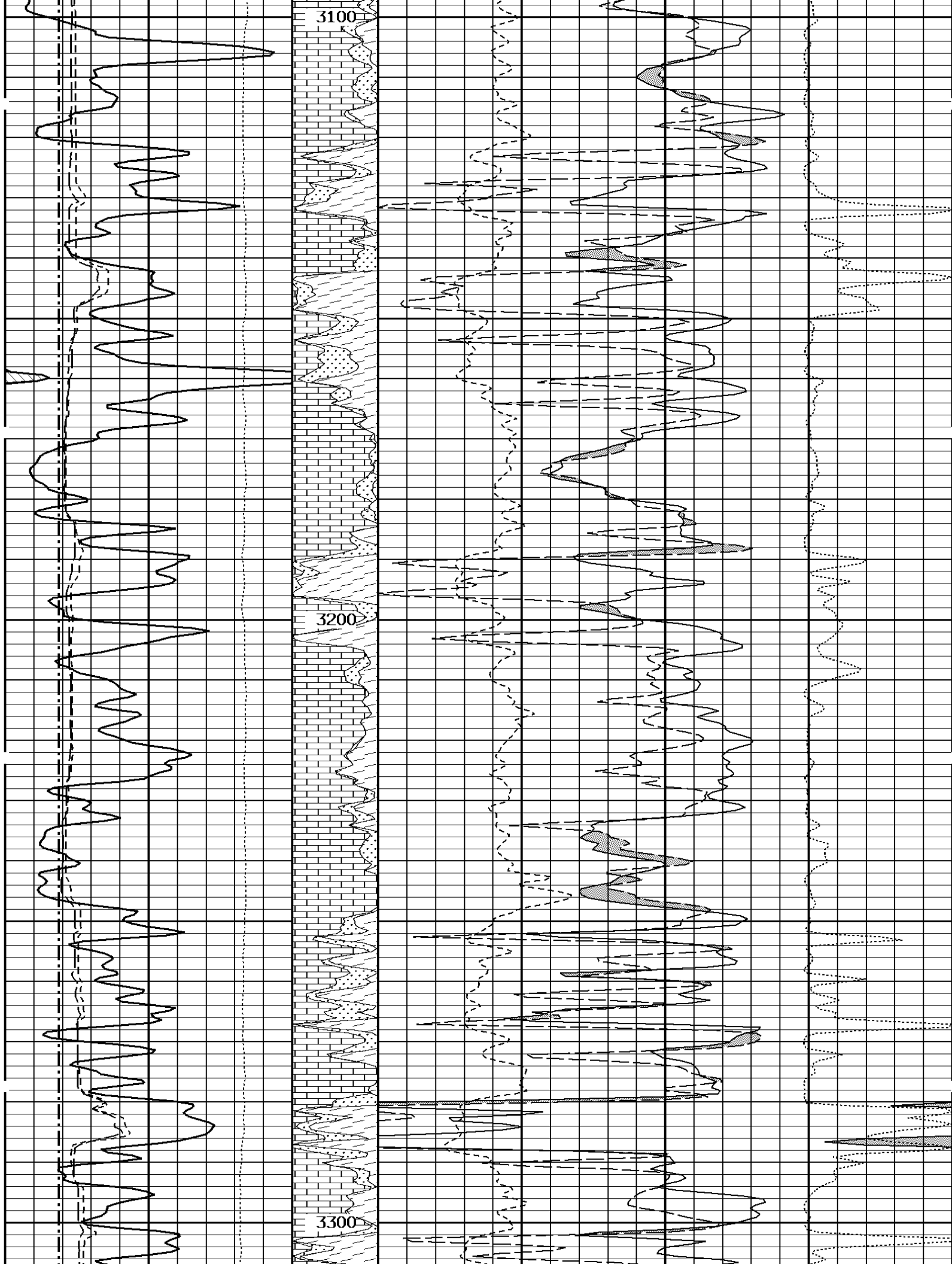


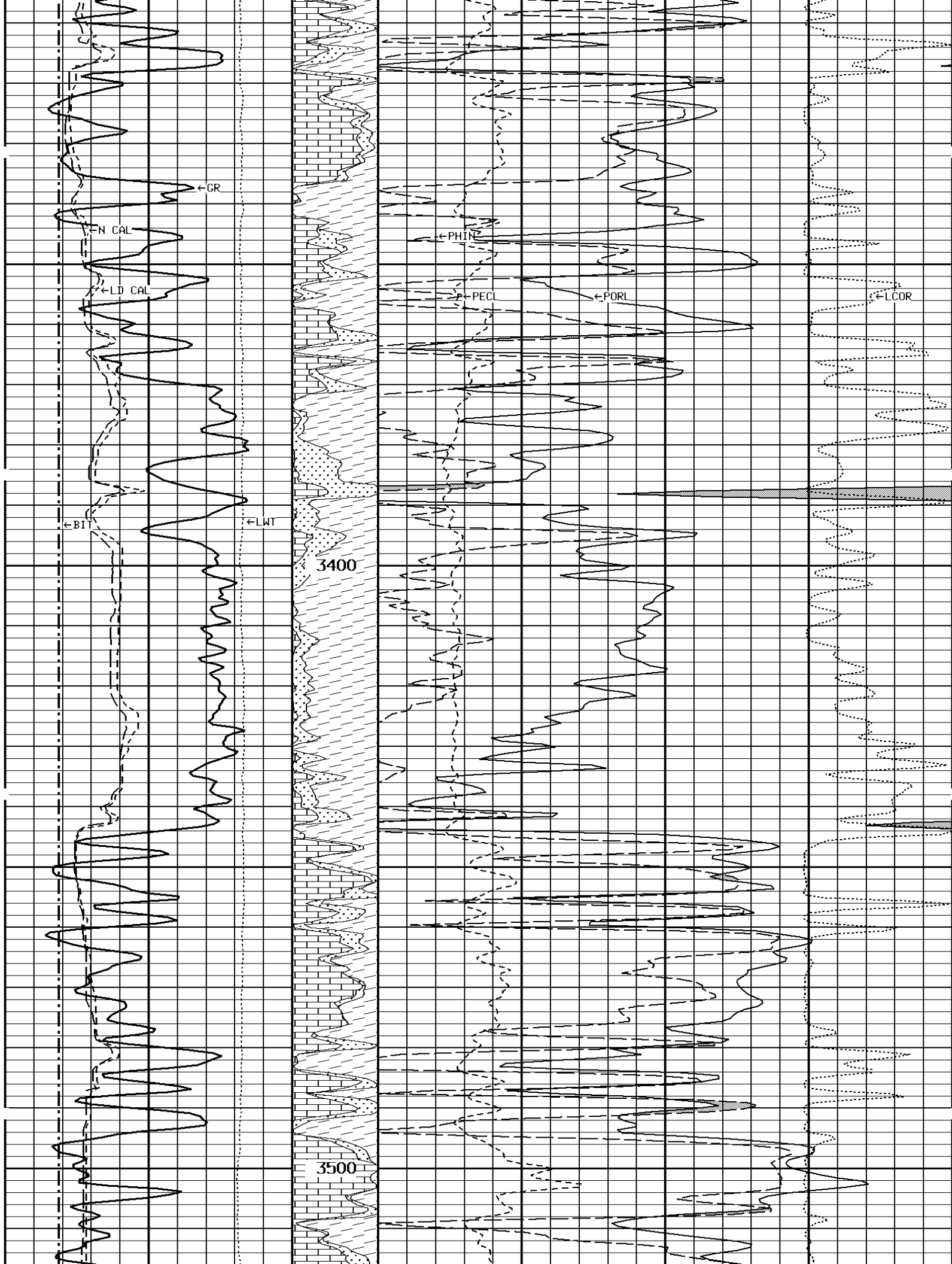


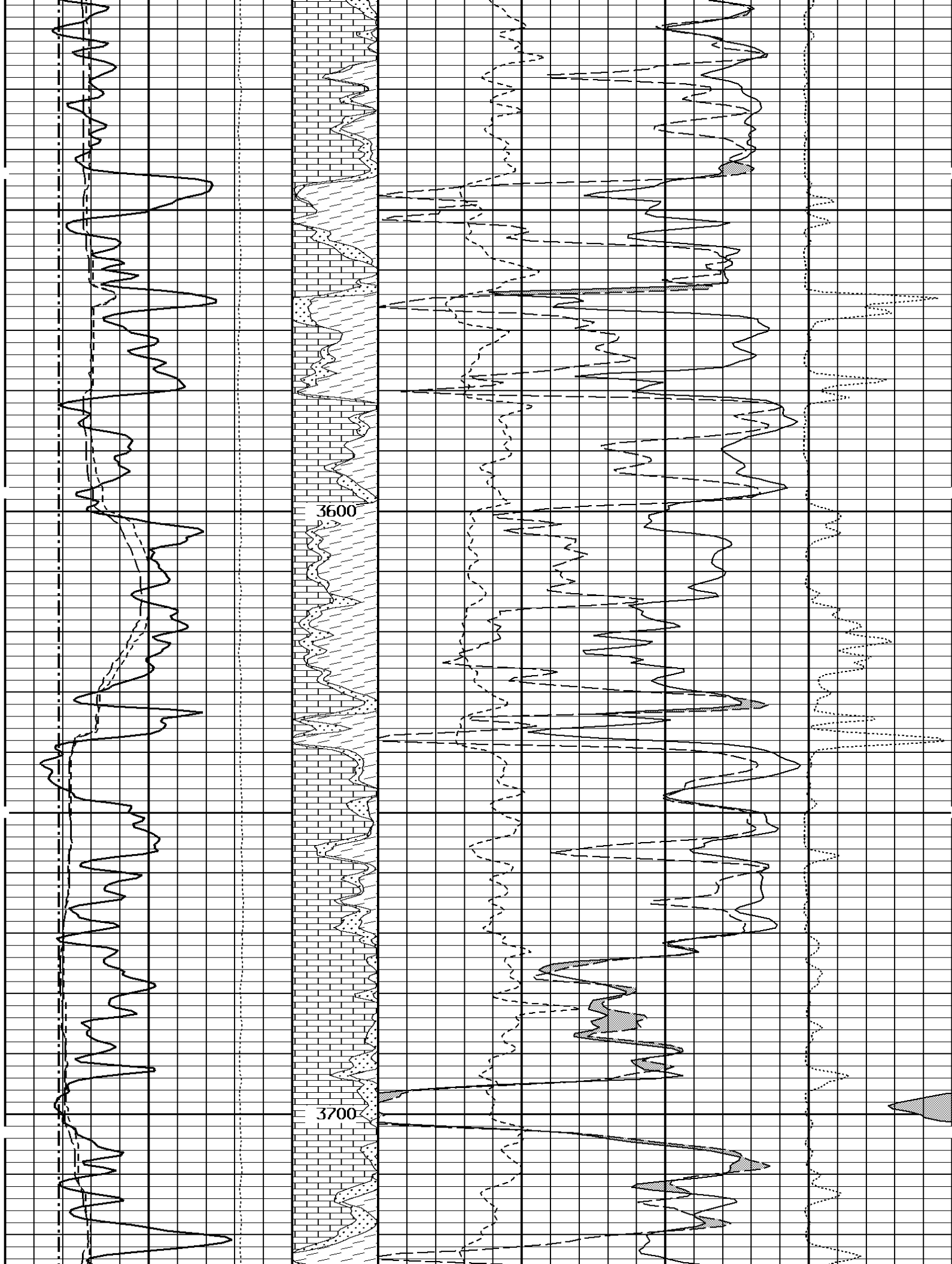
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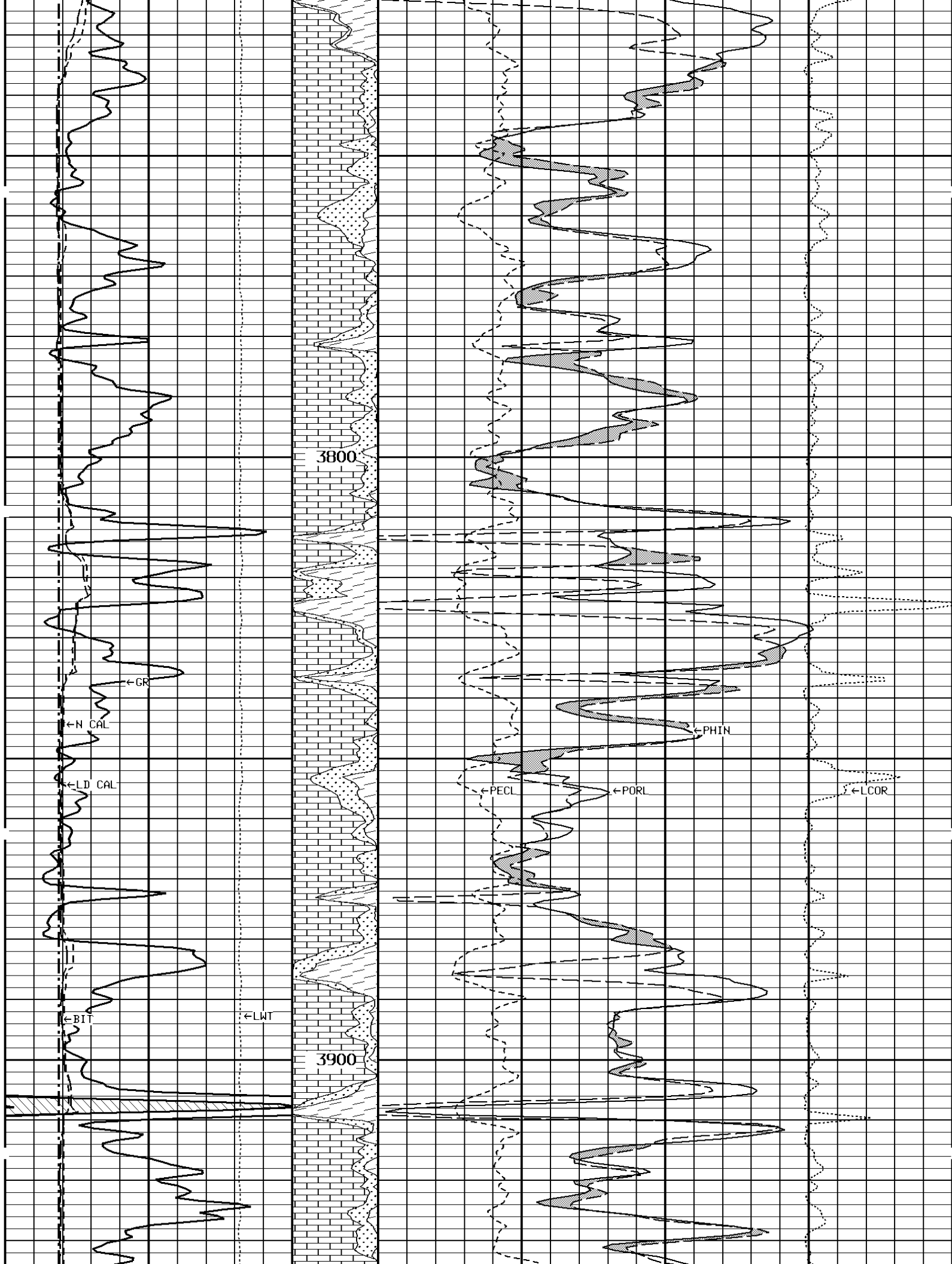
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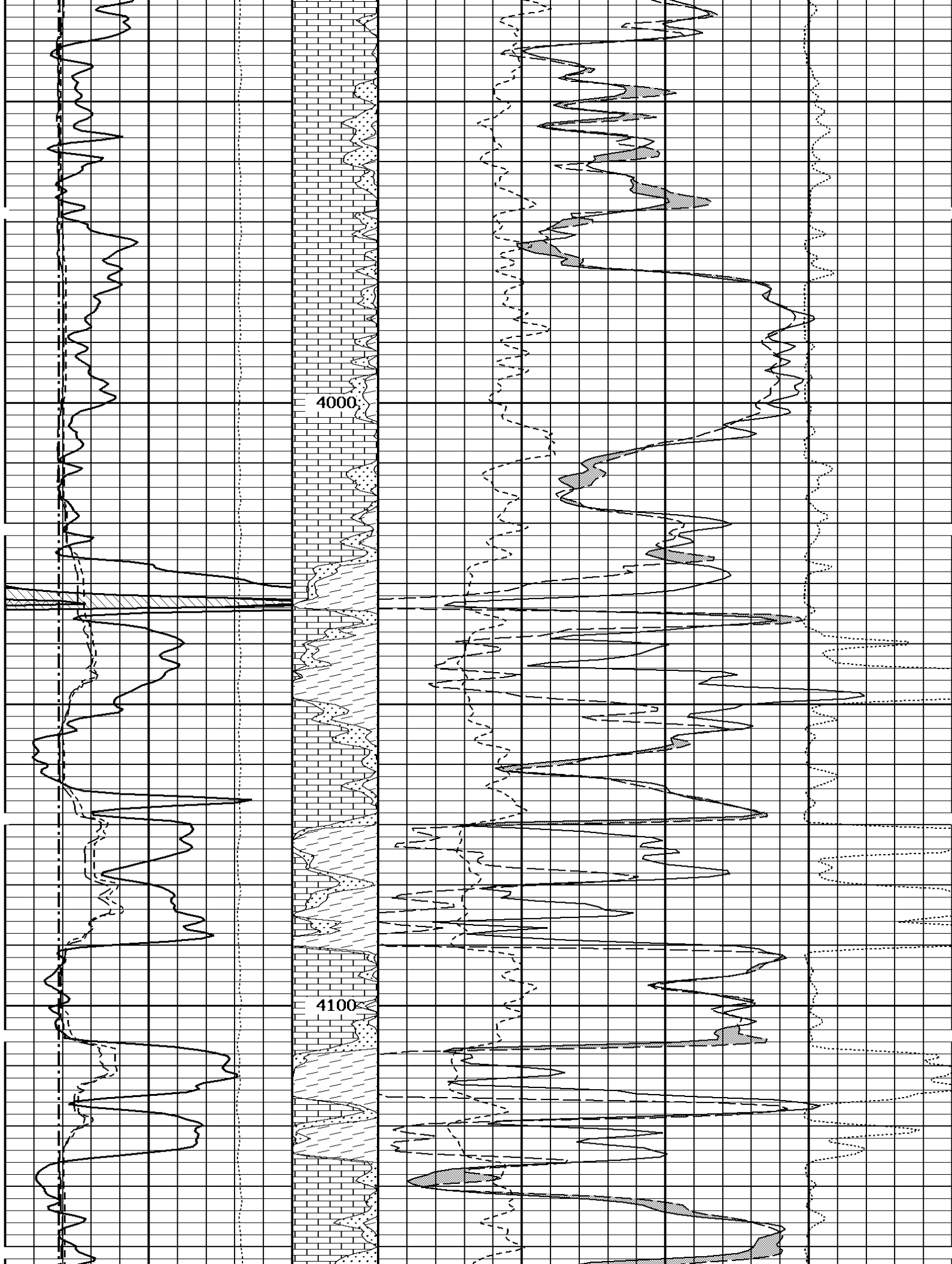
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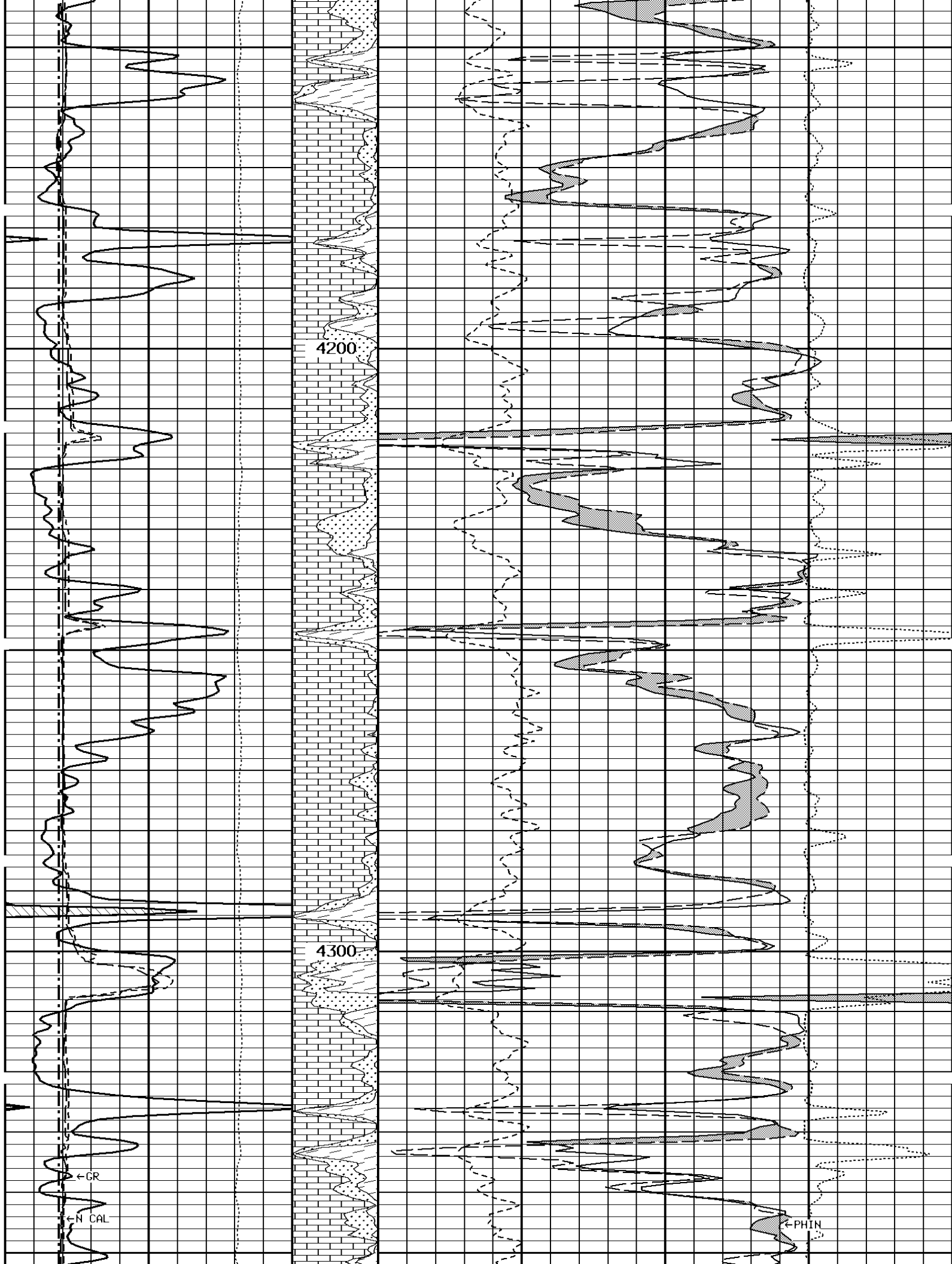


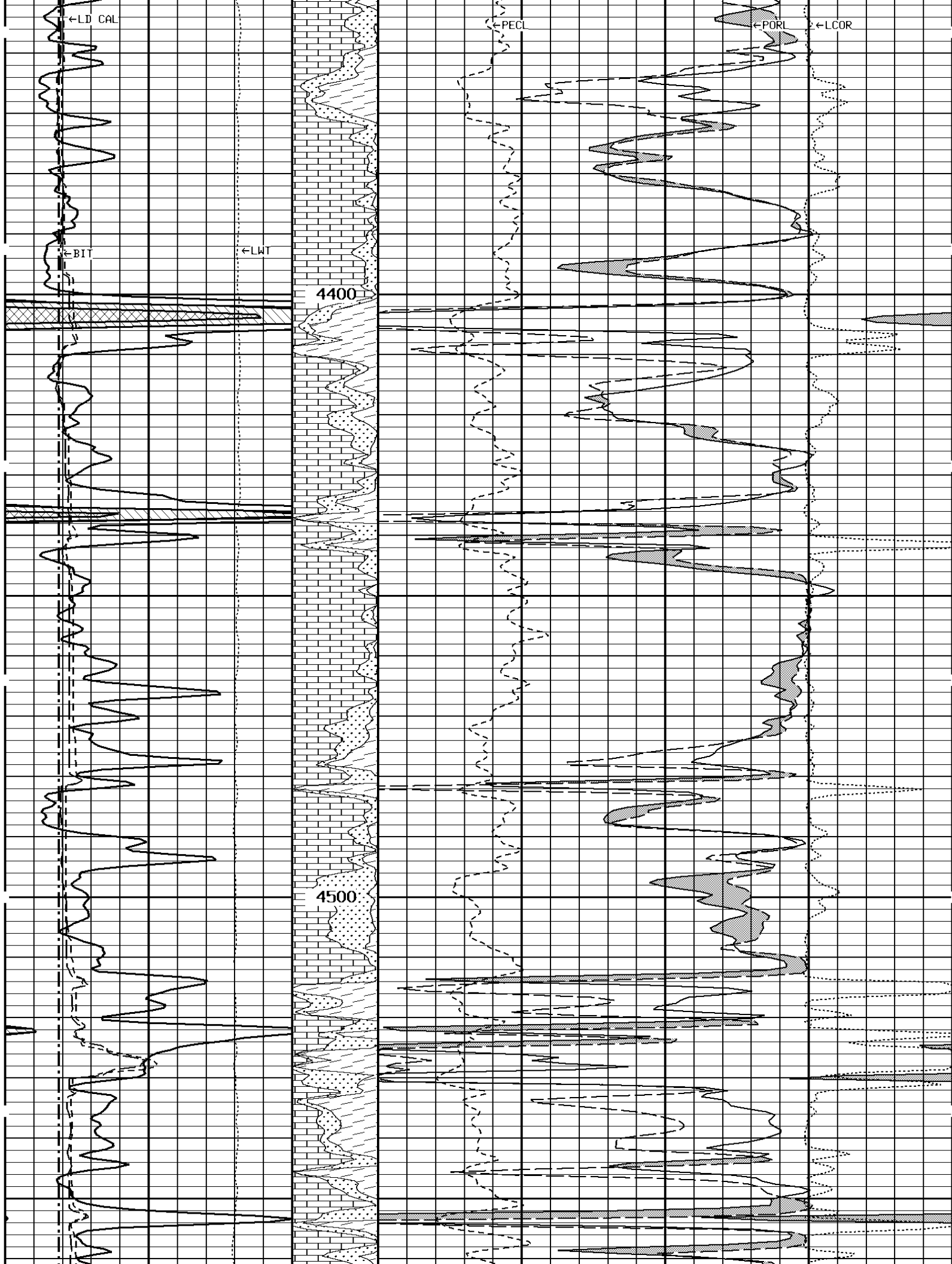


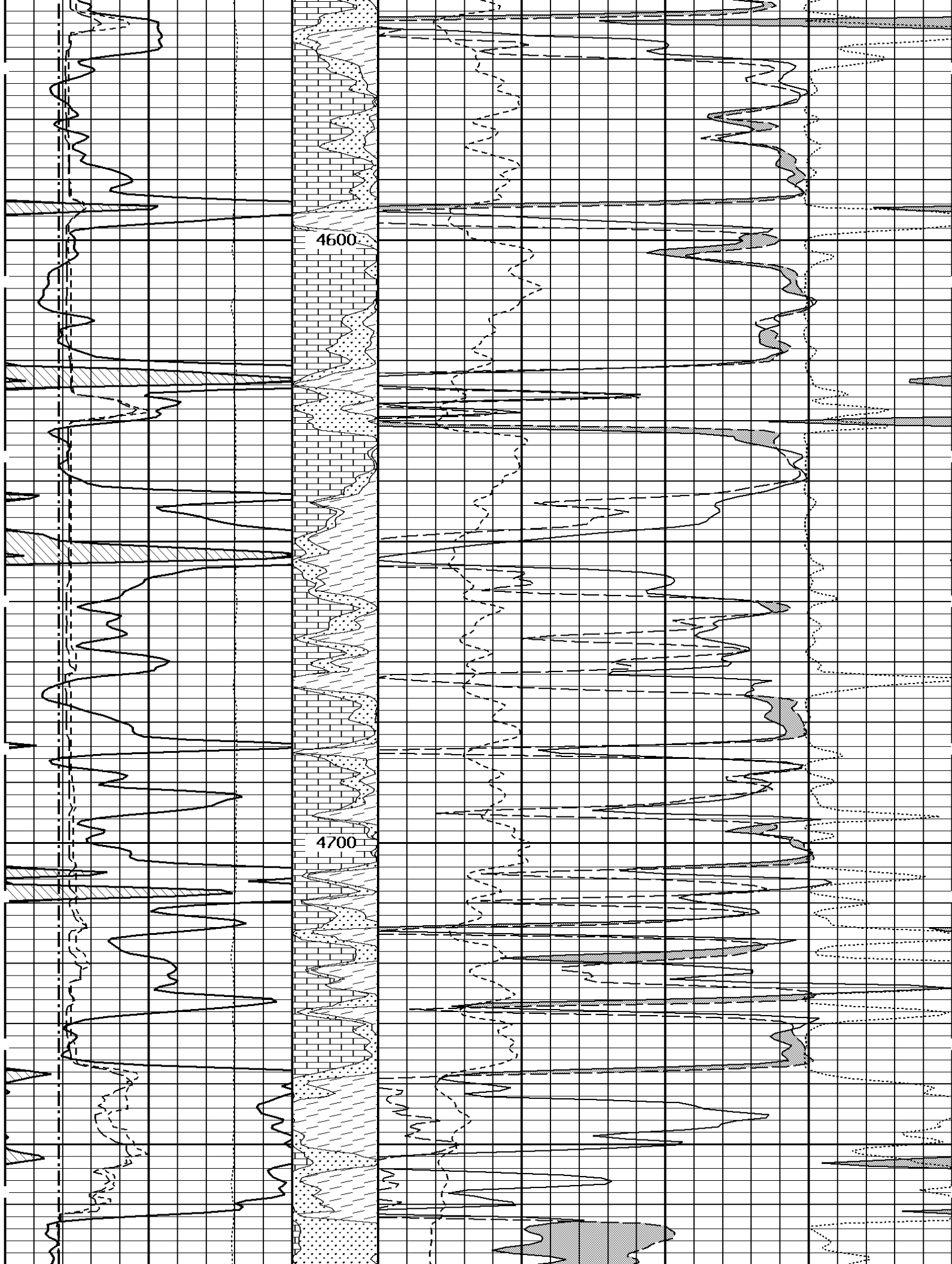


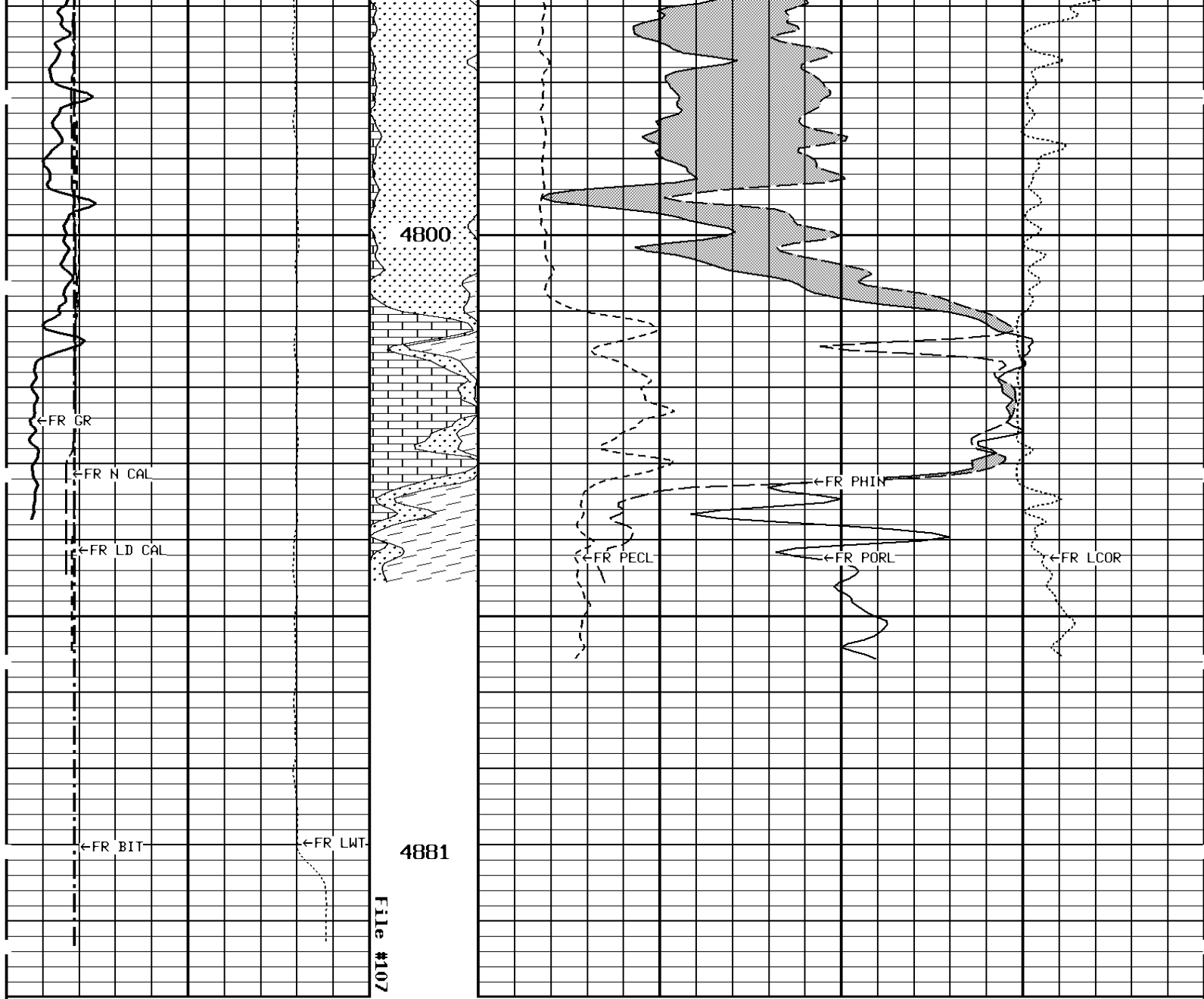












1:240 MAIN SECTION

GAMMA RAY API UNITS		
150		300
0		150
NEUTRON (Y) CALIPER INCHES (IN)		
16		26
6		16
DENSITY (X) CALIPER INCHES (IN)		
16		26
6		16
PE CROSS-SECTION BARN/ELECTRON		
0		10

DENSITY POROSITY PERCENT (2.71 g/cc)	
70	30
30	-10
NEUTRON POROSITY PERCENT (LIMESTONE MATRIX)	
30	-10
DENSITY CORRECTION G/CC	
0	0.25
10	-0.25

BIT SIZE INCHES (IN)	
6	16
TENSION LBS	
10000	0

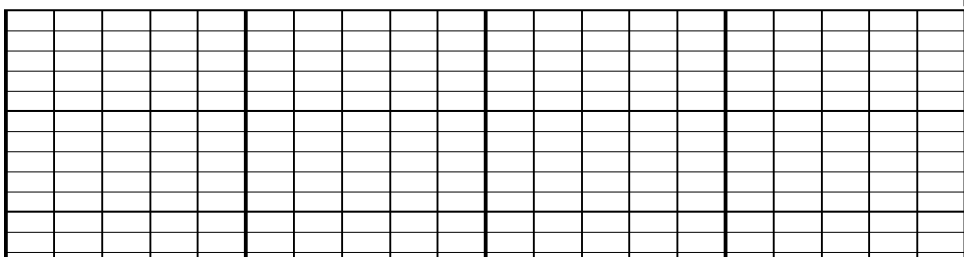
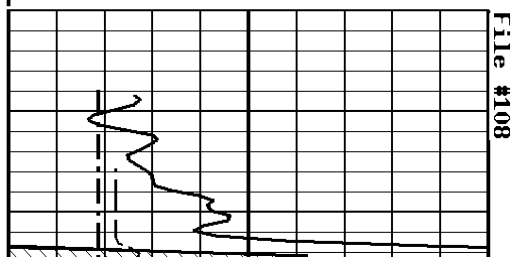
* Borehole Zone Factors *

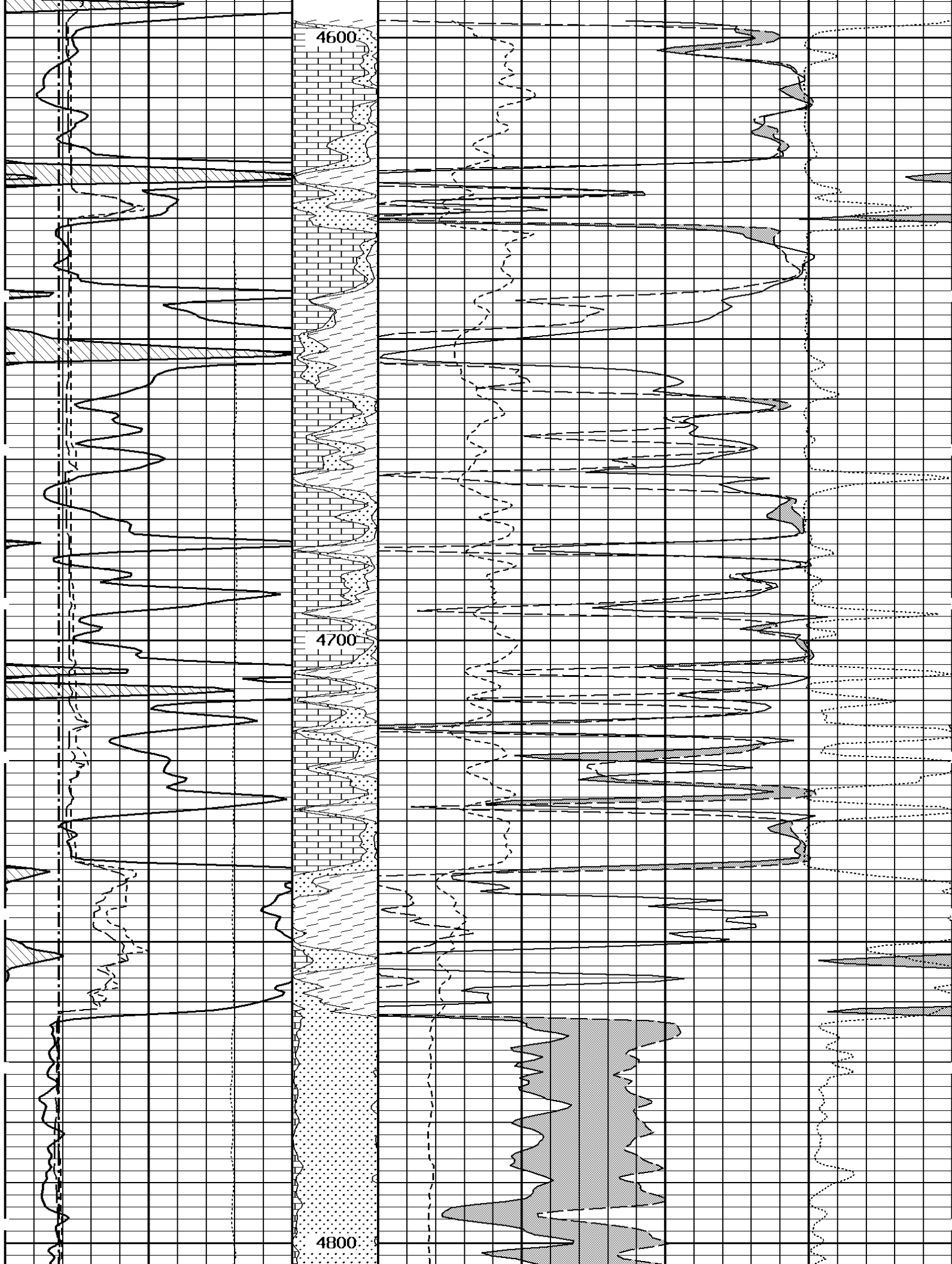
Zone 1 99999.0 to 0.0 F		
Matrix Density_____	2.71	G/C3
Fluid Density_____	1.00	G/C3
Formation Matrix_____	Limestone	
Drill Bit Size_____	7.875	IN
Production Casing Diameter_____	4.500	IN
Casing Correction (PHI N)_____	Disable	

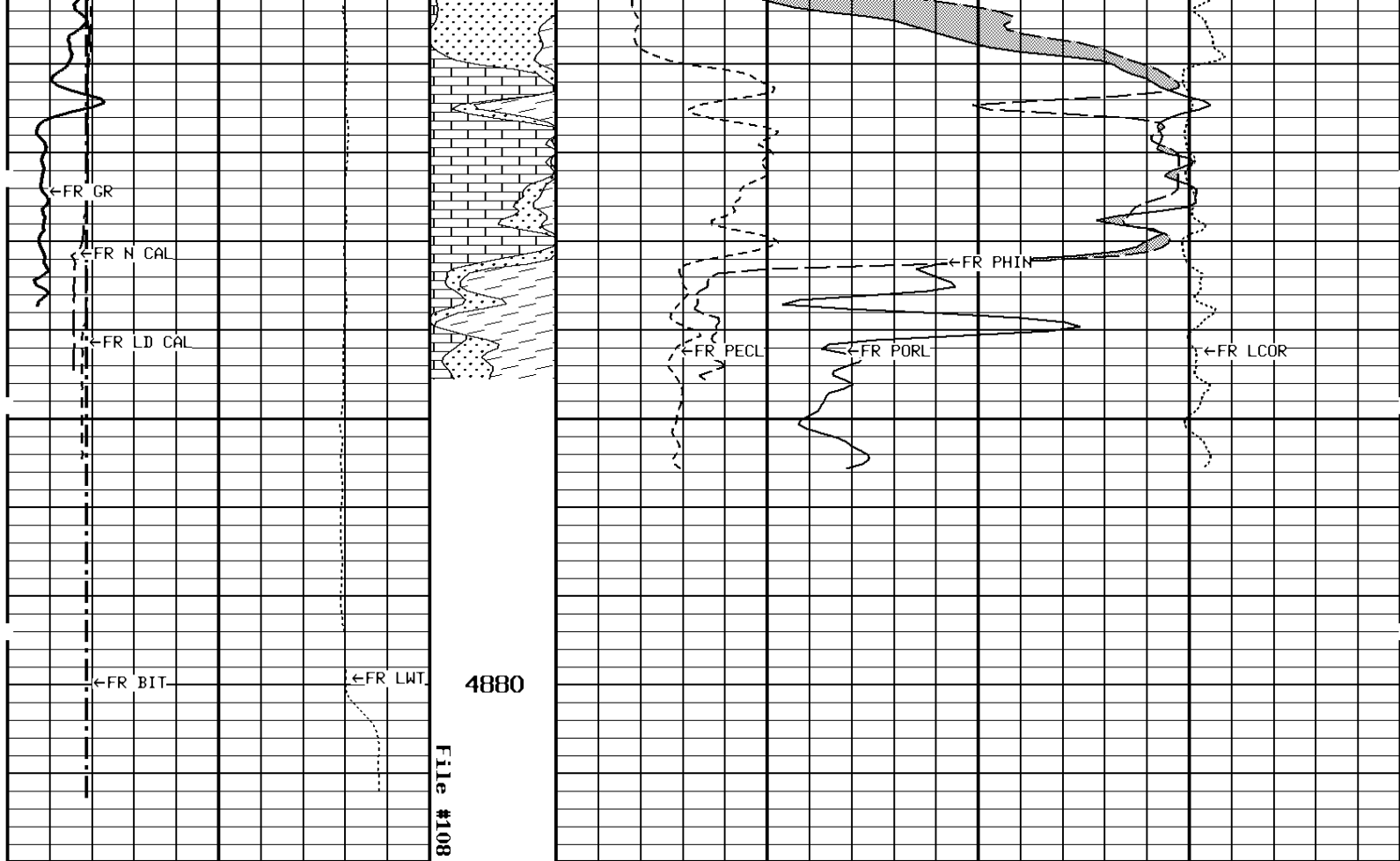
TENSION LBS	
10000	0
BIT SIZE INCHES (IN)	
6	16
DENSITY (X) CALIPER INCHES (IN)	
16	26
6	16
NEUTRON (Y) CALIPER INCHES (IN)	
16	26
6	16
GAMMA RAY API UNITS	
150	300
0	150

PE CROSS-SECTION BARNS/ELECTRON	DENSITY CORRECTION G/CC
0	10
-0.25	0.25
NEUTRON POROSITY PERCENT (LIMESTONE MATRIX)	
30	-10
DENSITY POROSITY PERCENT (2.71 g/cc)	
70	30
30	-10

1:240 REPEAT SECTION







1:240 REPEAT SECTION

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

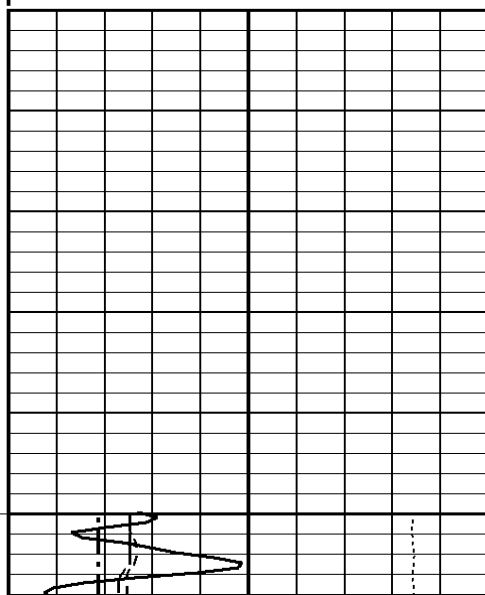
* Borehole Zone Factors *

Zone 1 99999.0 to 0.0 F		
Matrix Density_____	2.71	G/C3
Fluid Density_____	1.00	G/C3
Formation Matrix_____	Limestone	
Drill Bit Size_____	7.875	IN
Production Casing Diameter_____	4.500	IN
Casing Correction (PHI N)_____	Disable	

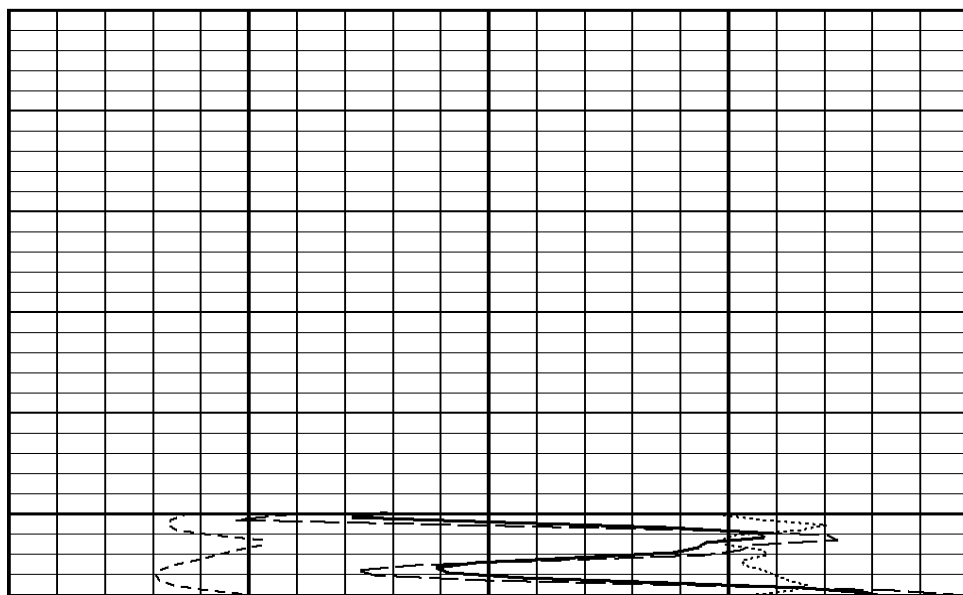
TENSION LBS	
10000	0
BIT SIZE INCHES (IN)	
6	16
DENSITY (X) CALIPER INCHES (IN)	
16	26
6	16
NEUTRON (Y) CALIPER INCHES (IN)	
16	26
6	16
GAMMA RAY API UNITS	
150	300
0	150

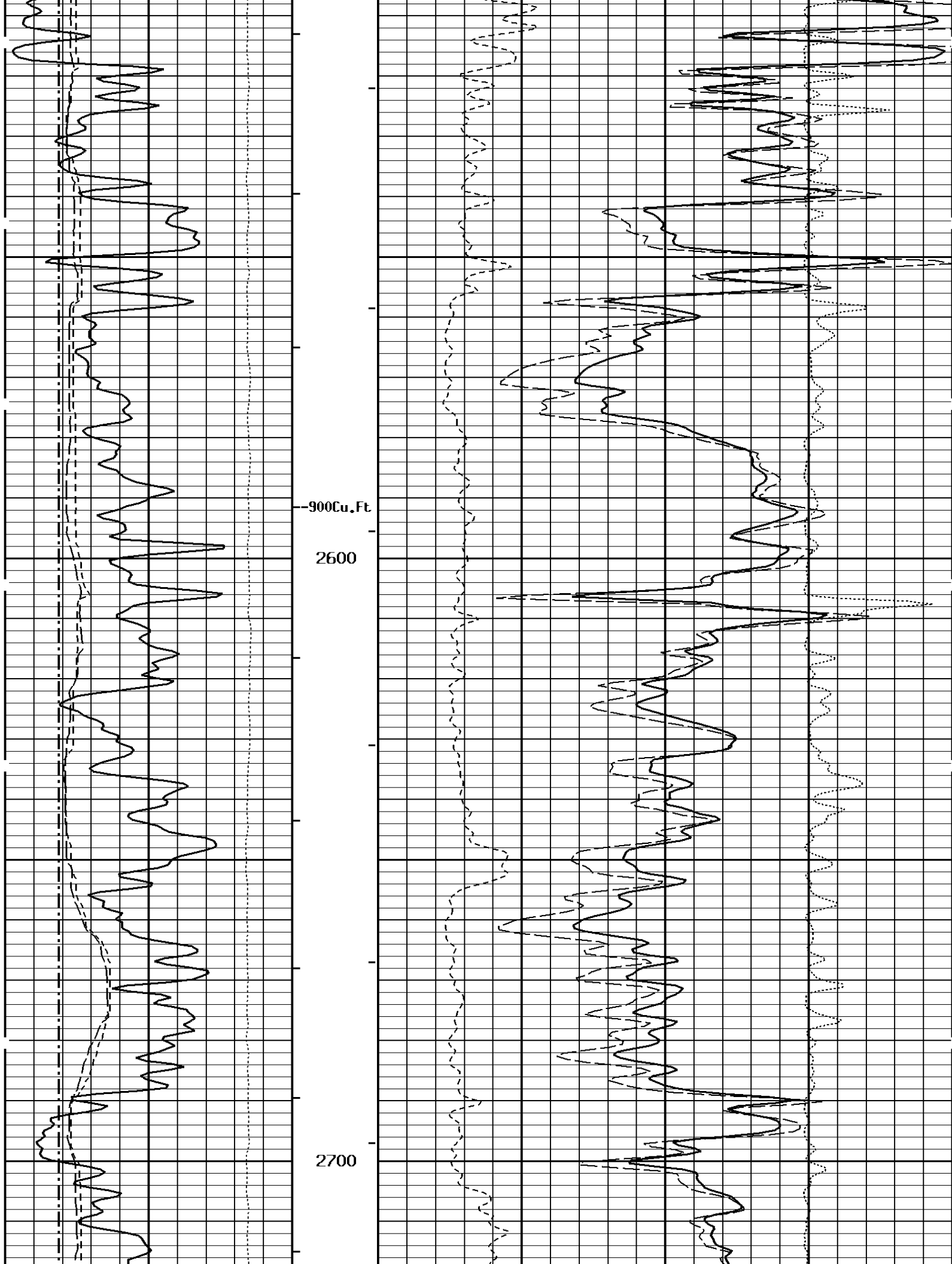
PE CROSS-SECTION BARNS/ELECTRON		DENSITY CORRECTION G/CC	
0	10	-0.25	0.25
DENSITY POROSITY PERCENT (2.71 g/cc)			
30		-10	
COMPENSATED BULK DENSITY G/CC			
3.0		4.0	
2.0		3.0	
1.0		2.0	

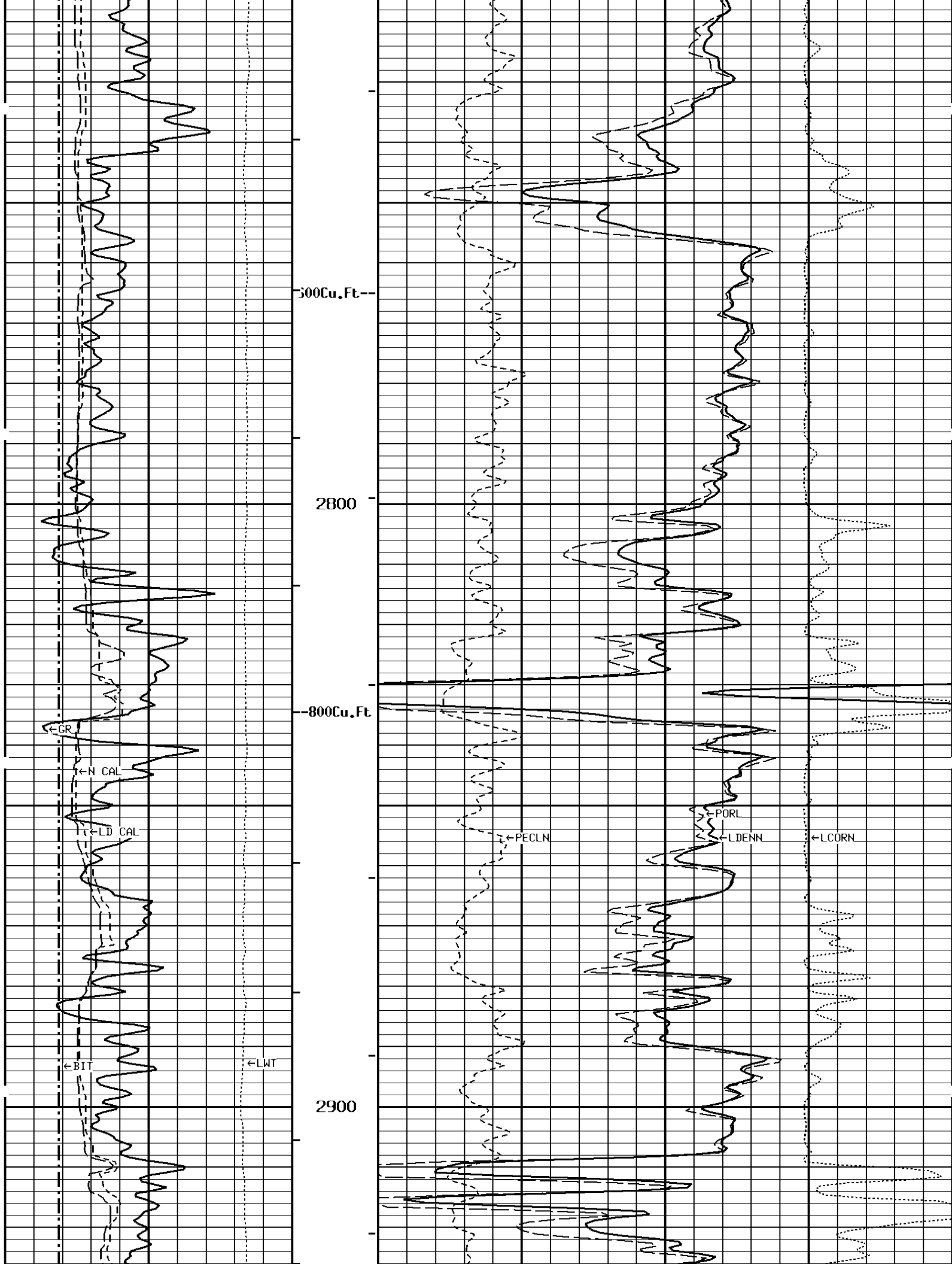
**1:240 MAIN SECTION
BULK DENSITY**

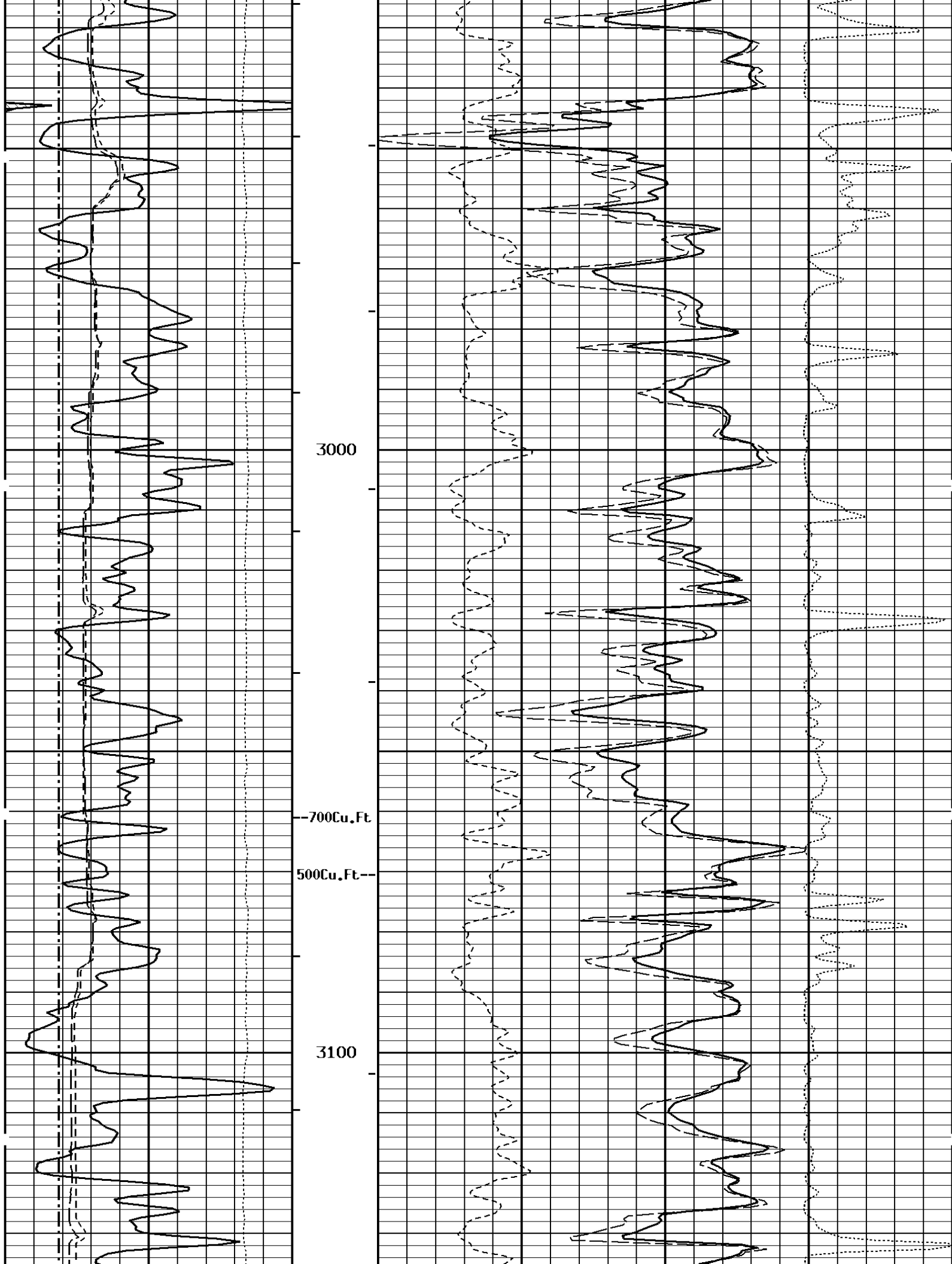


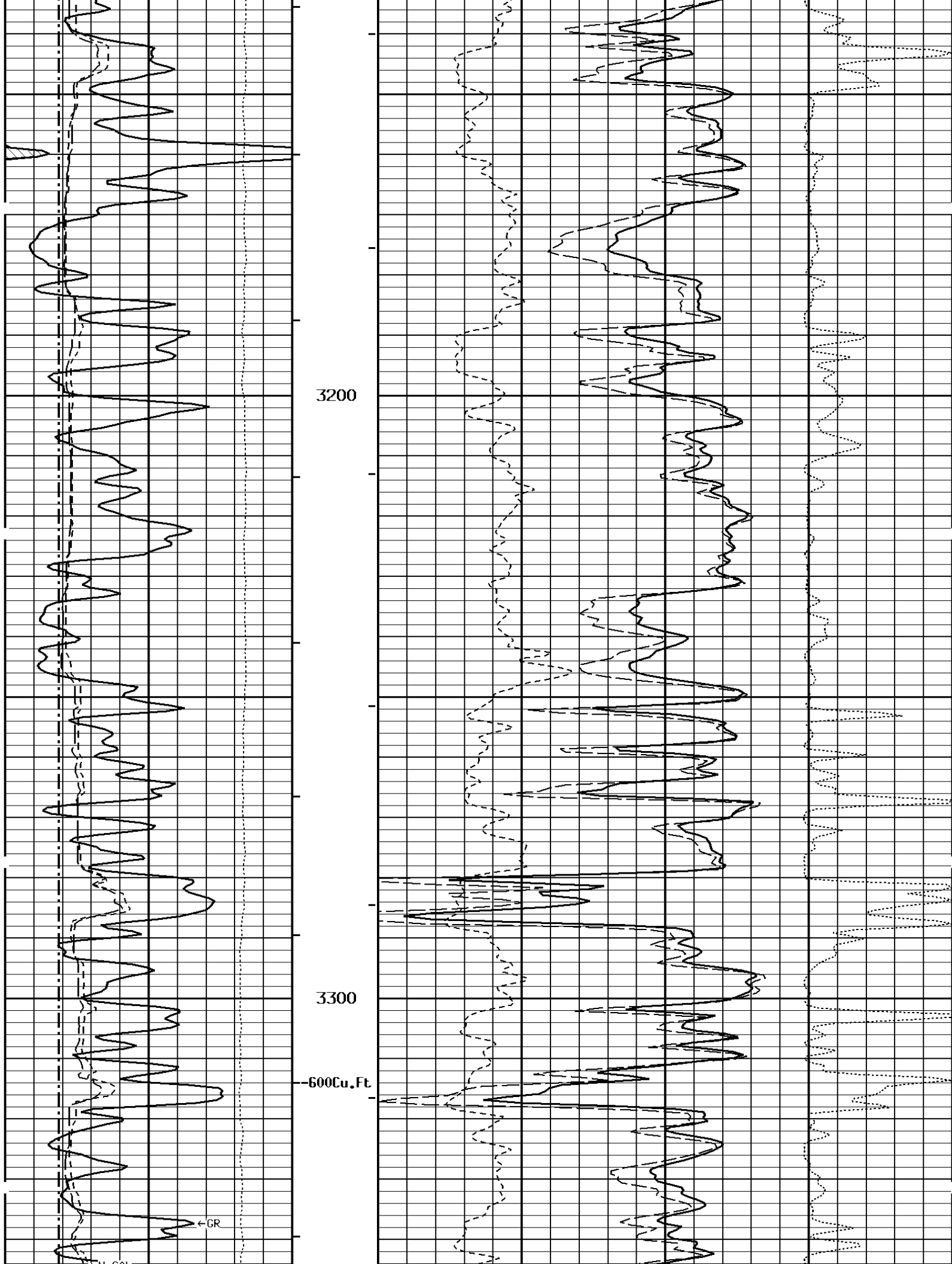
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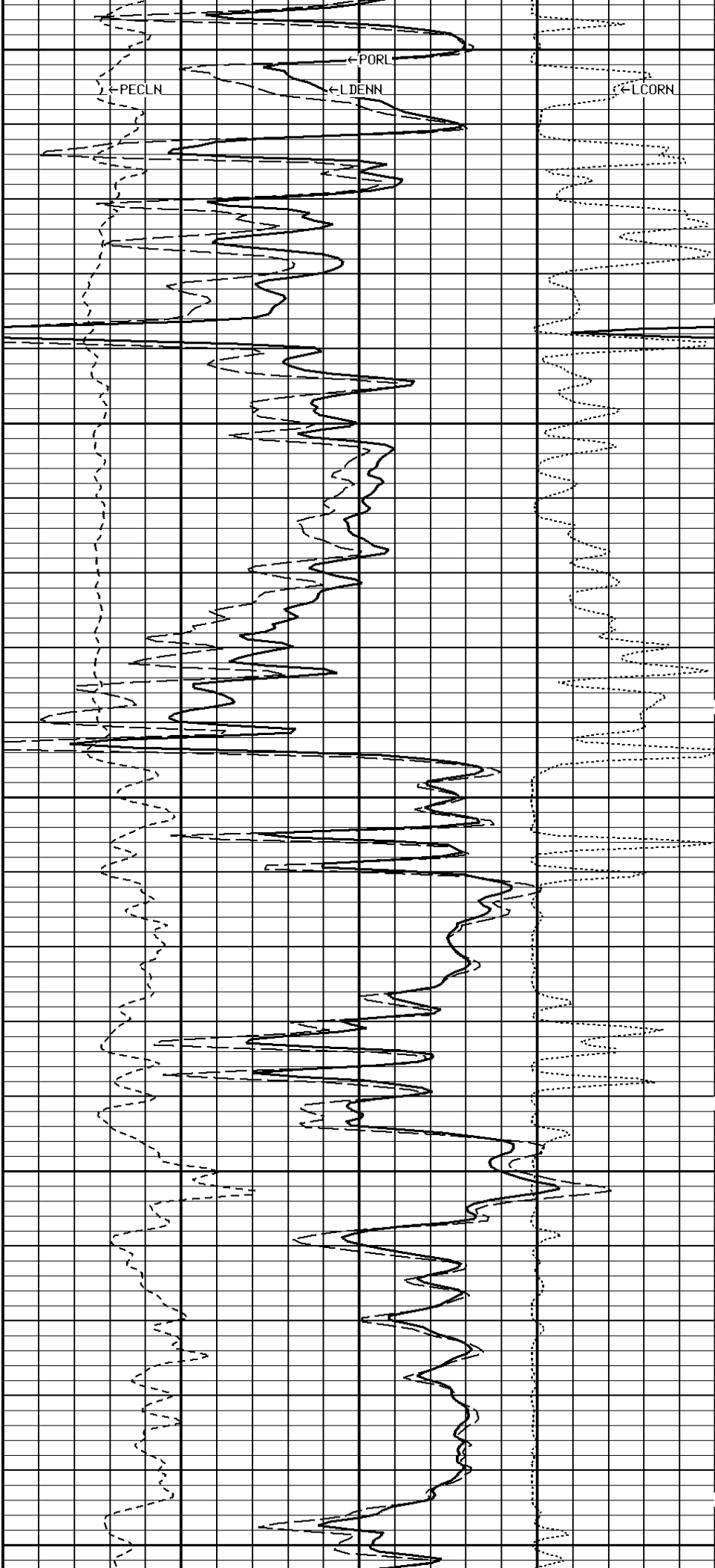
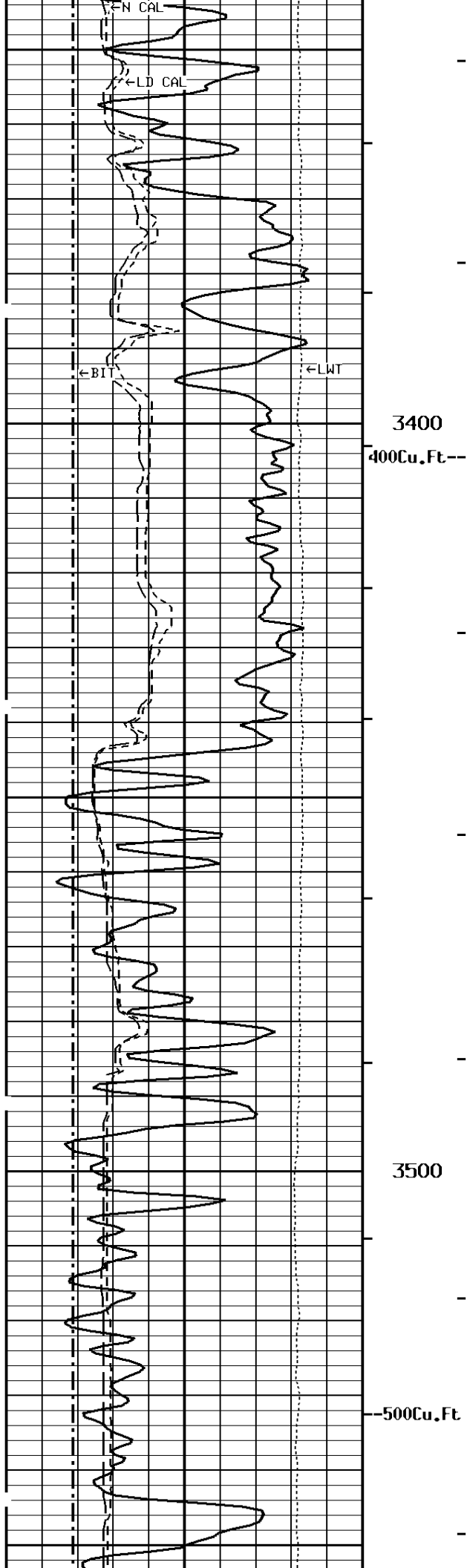


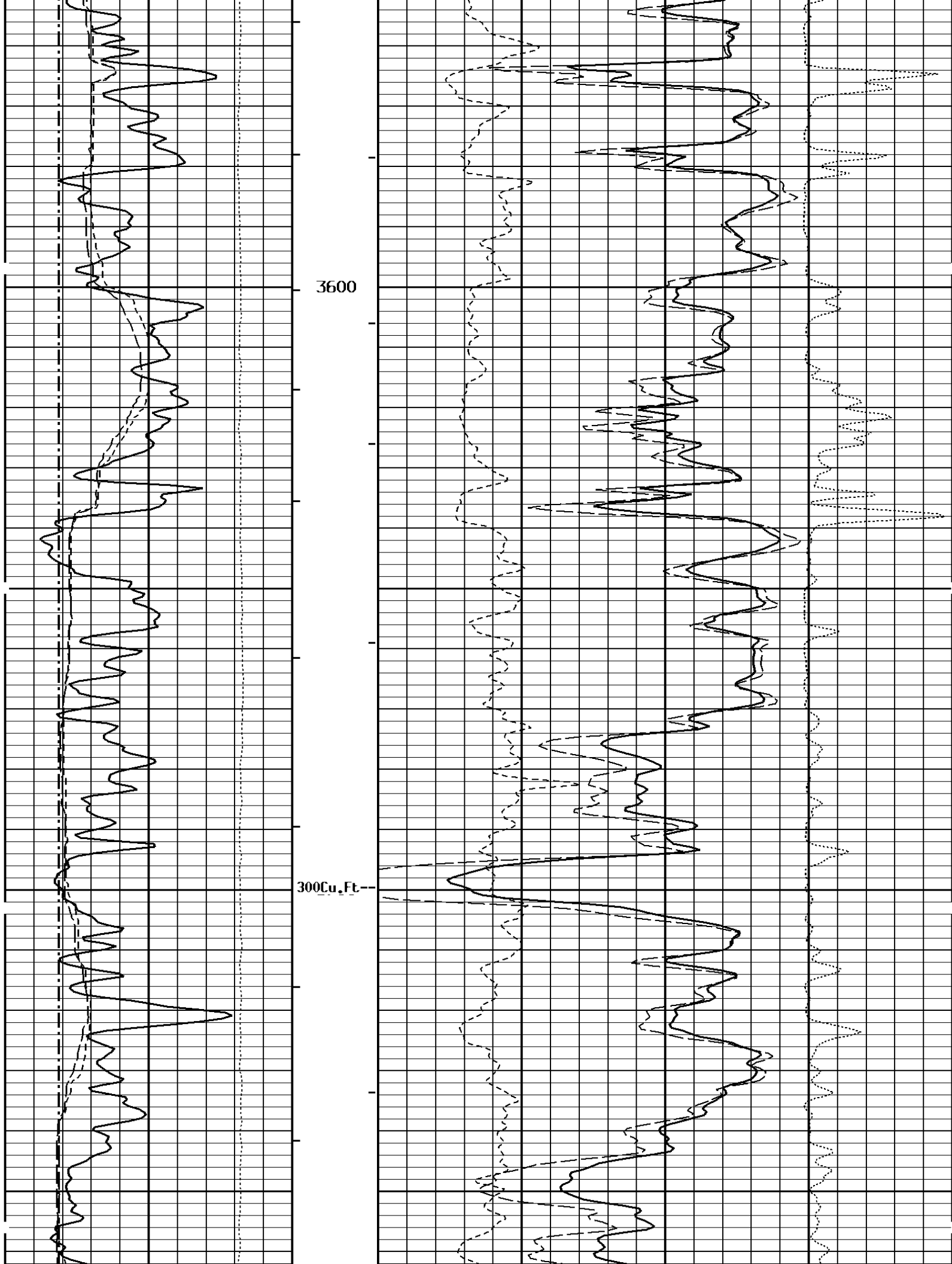


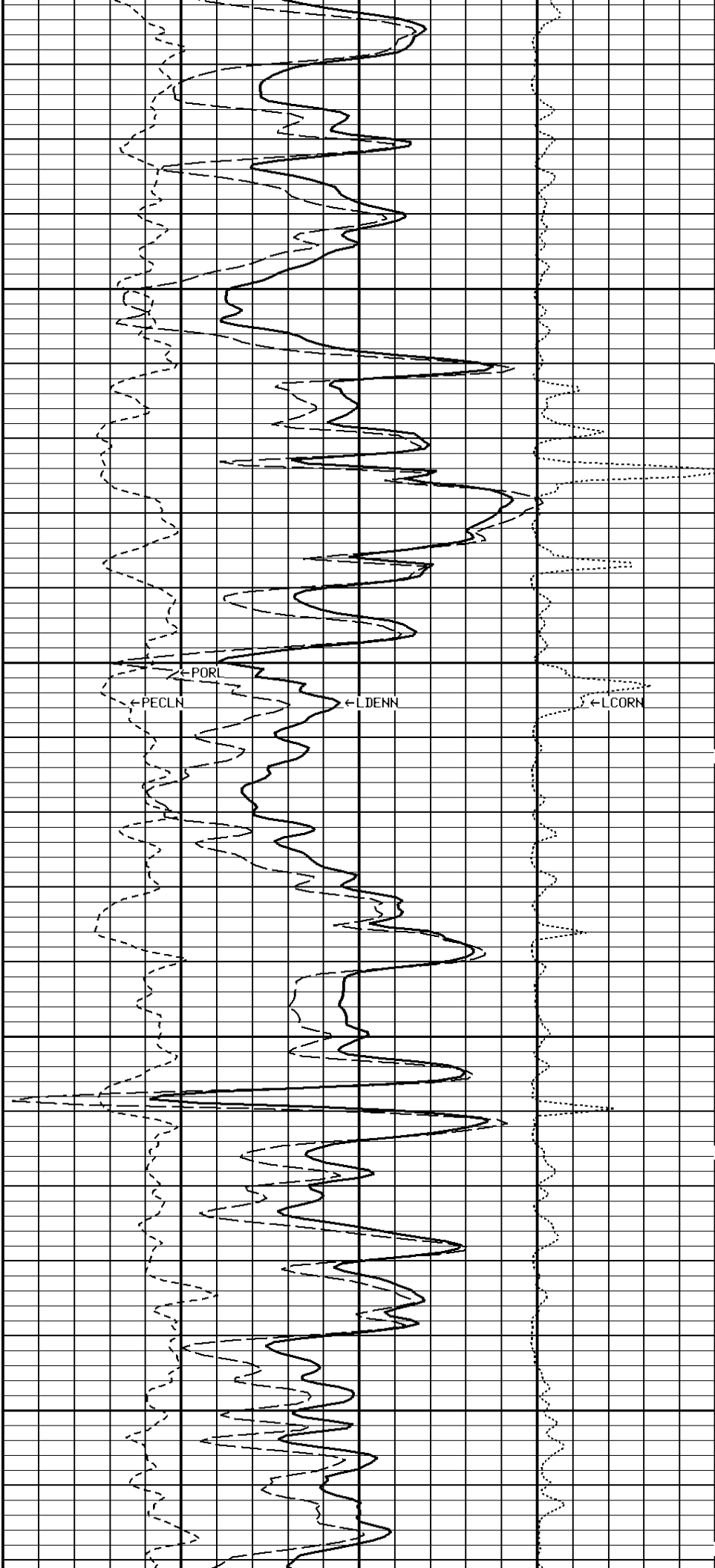
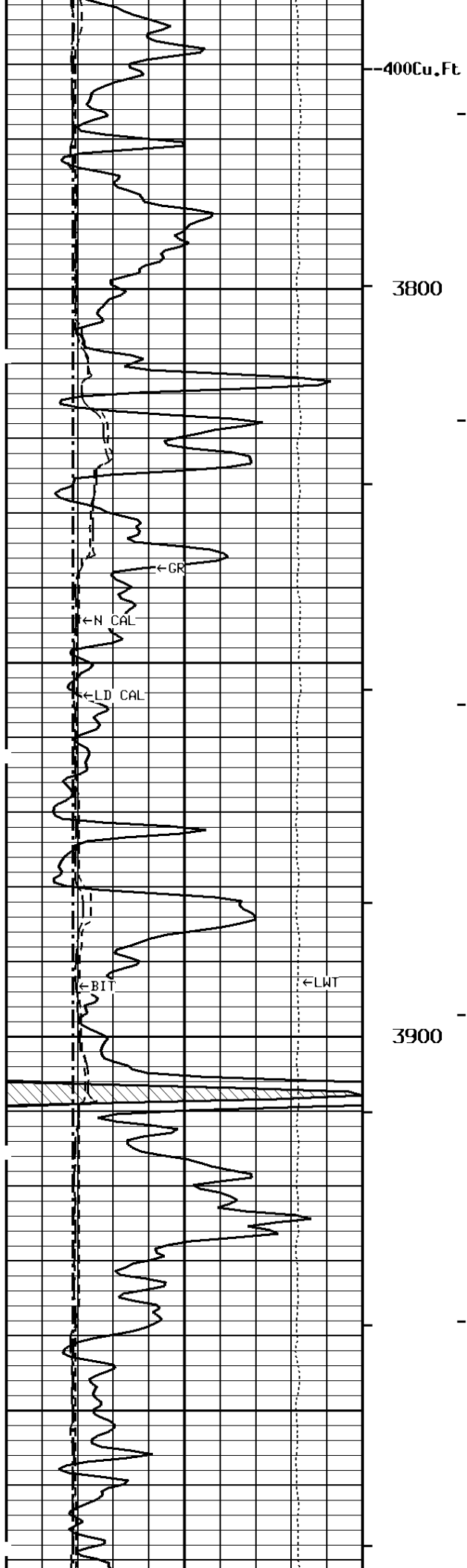


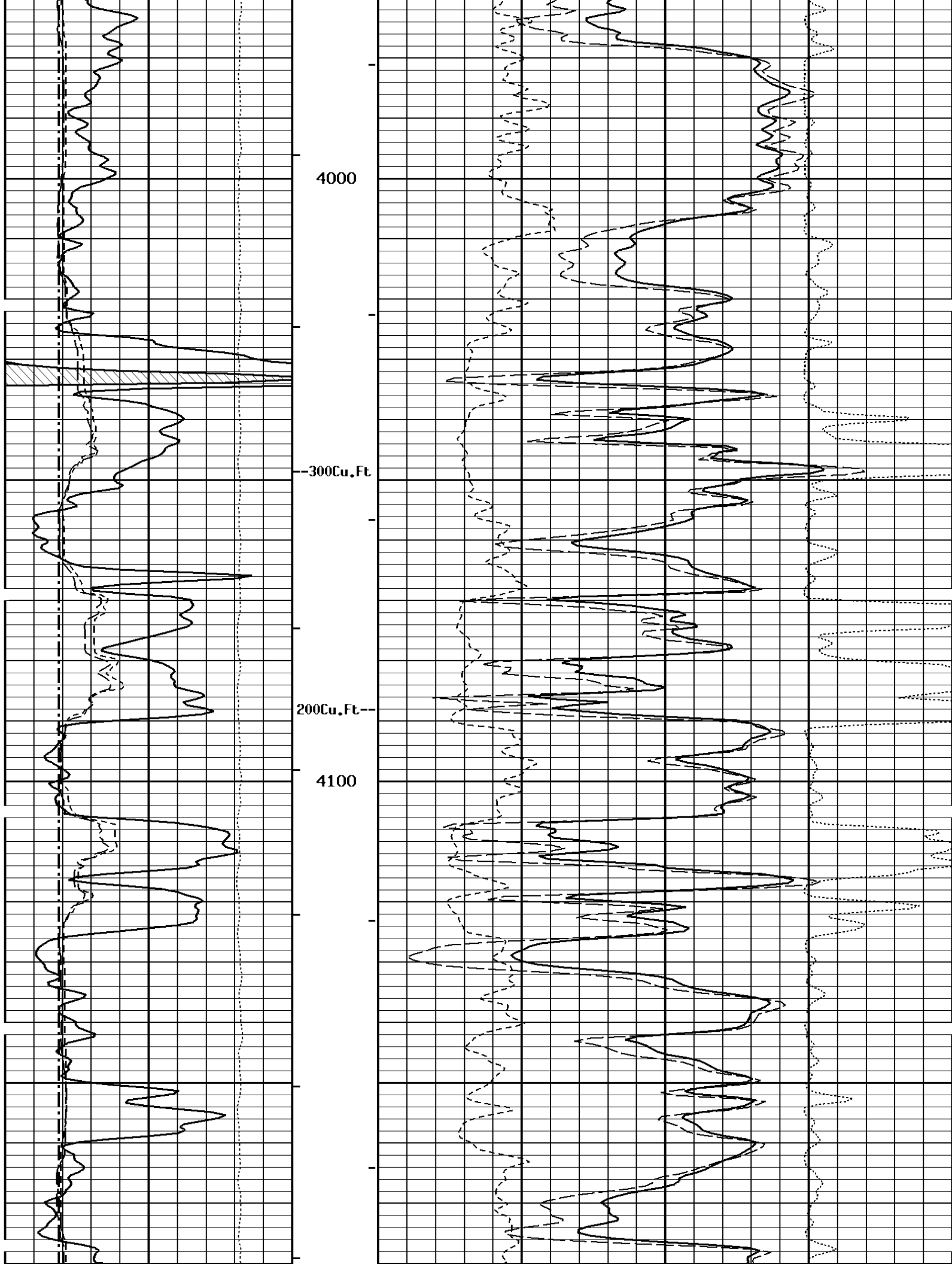










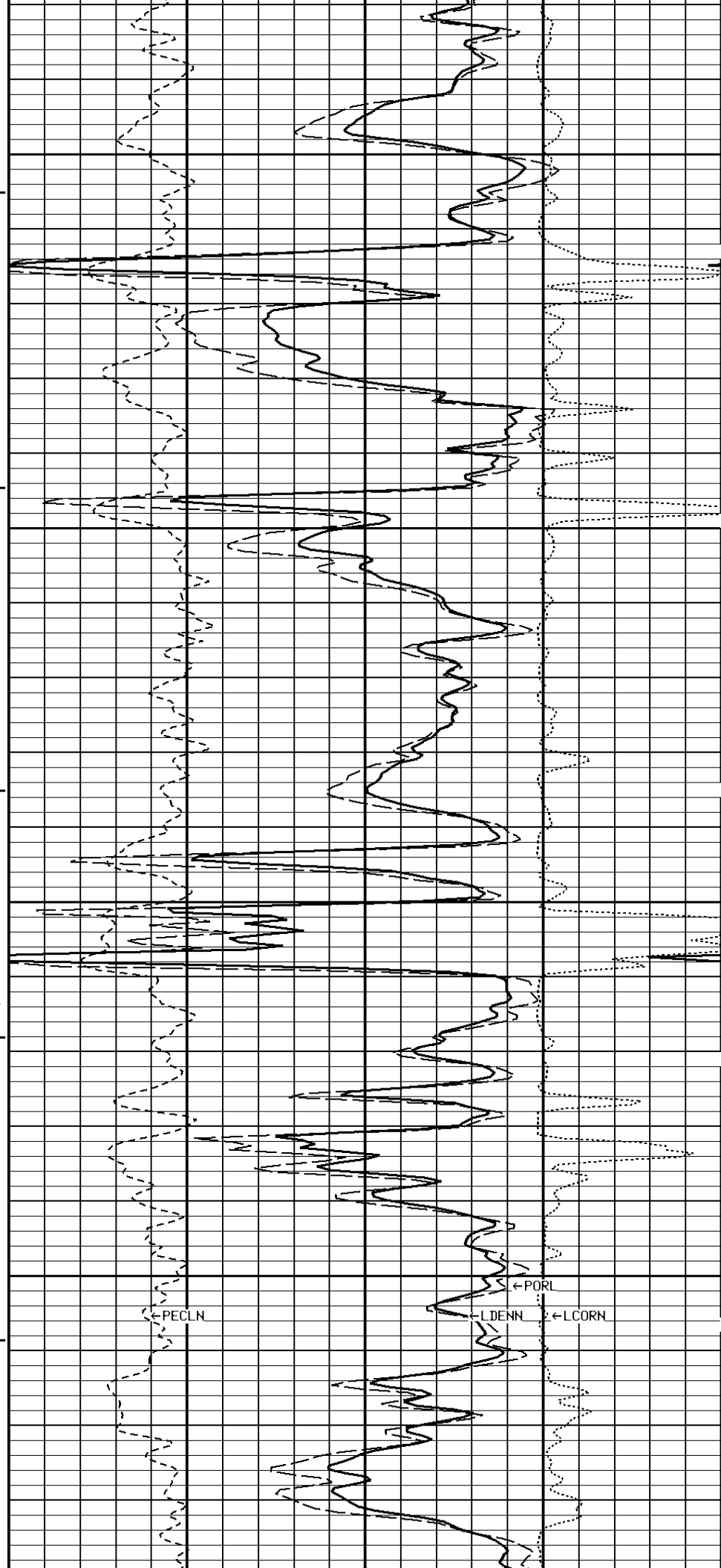


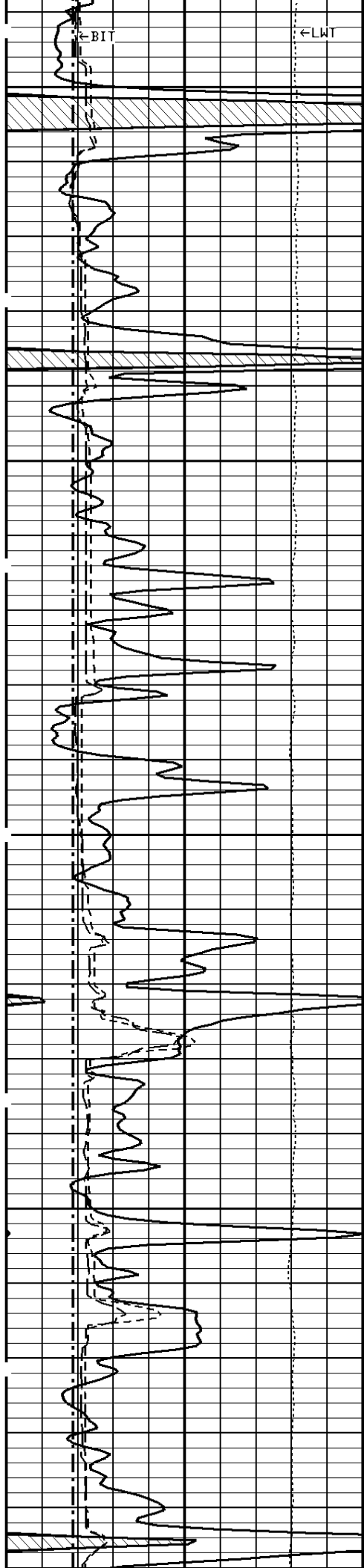


4200

4300

--200Cu.Ft



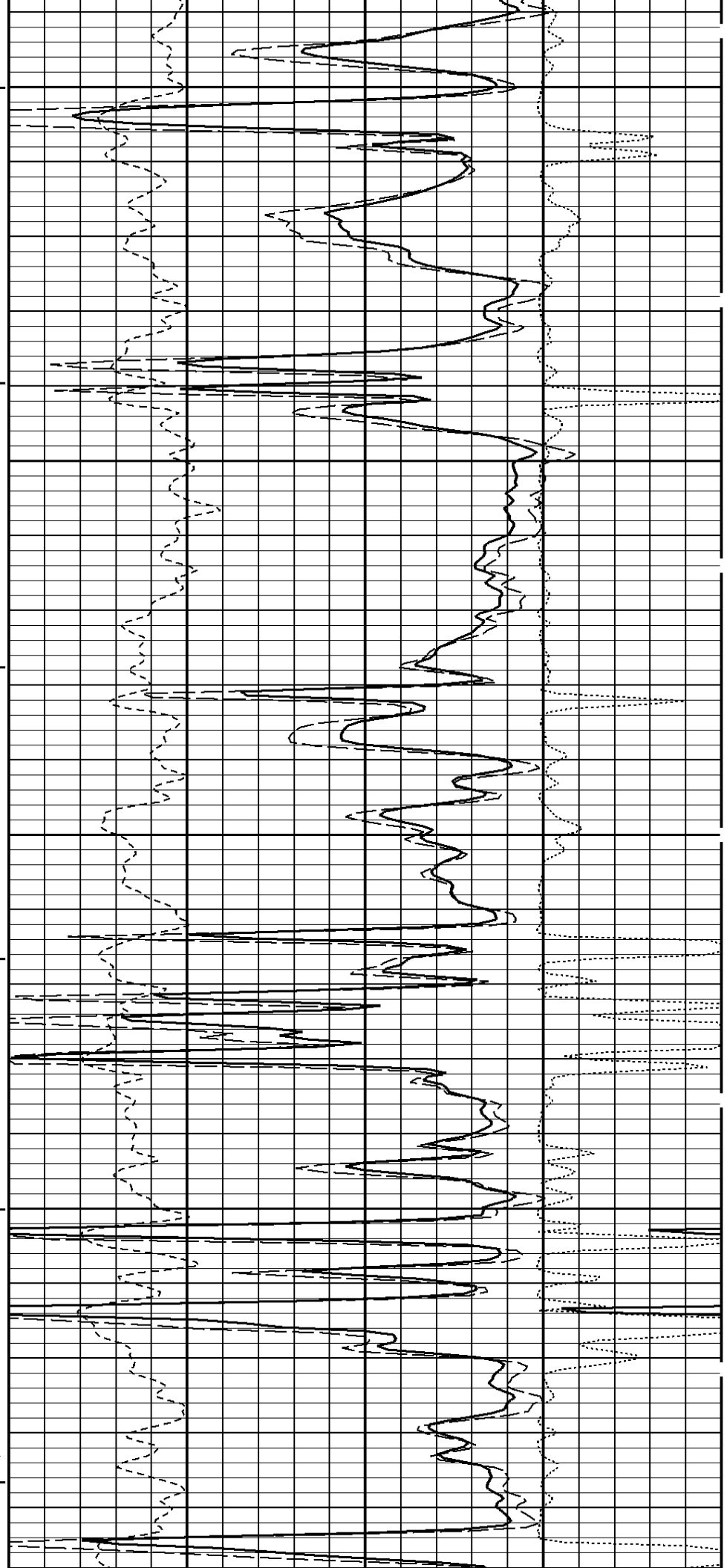


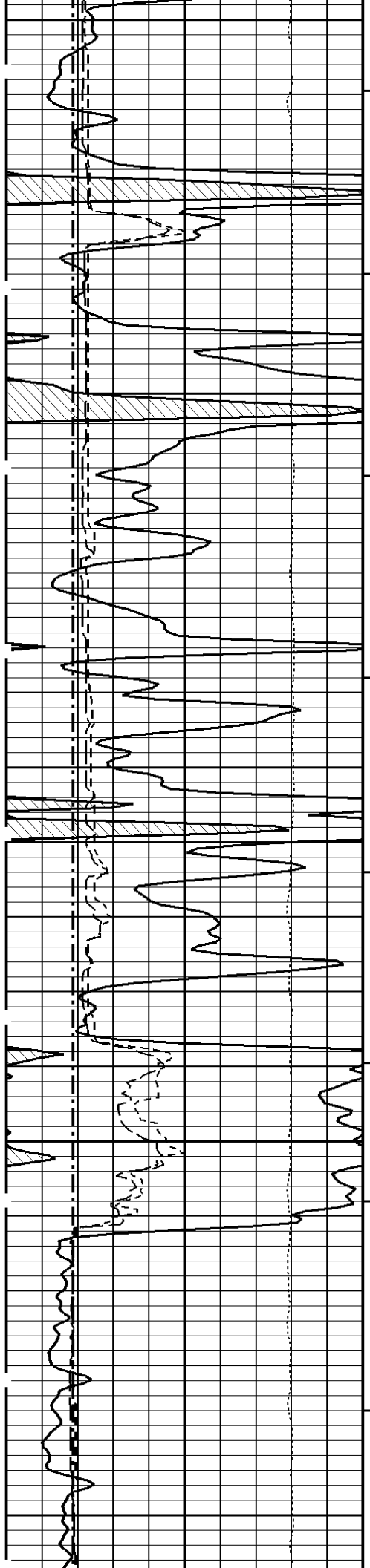
4400

100Cu.Ft--

4500

--100Cu.Ft

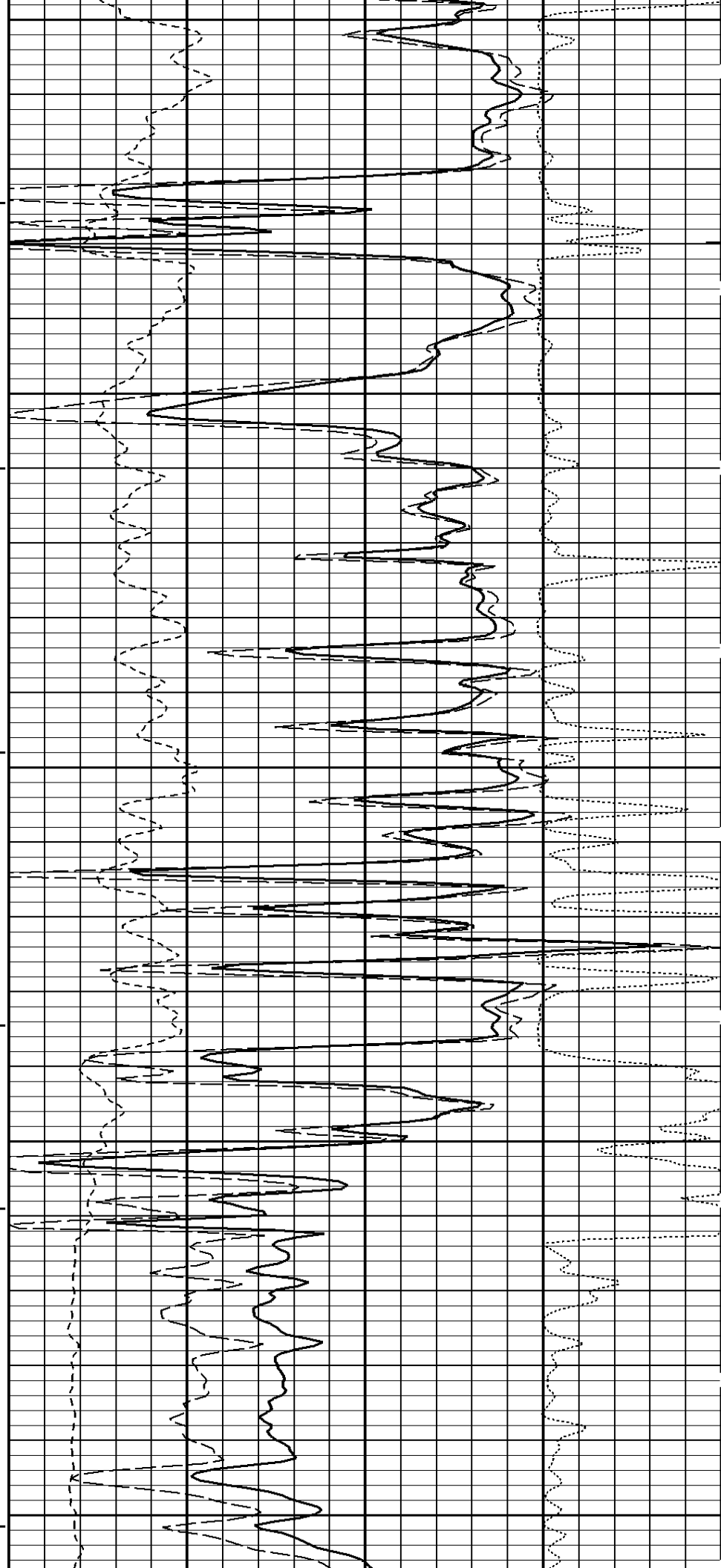


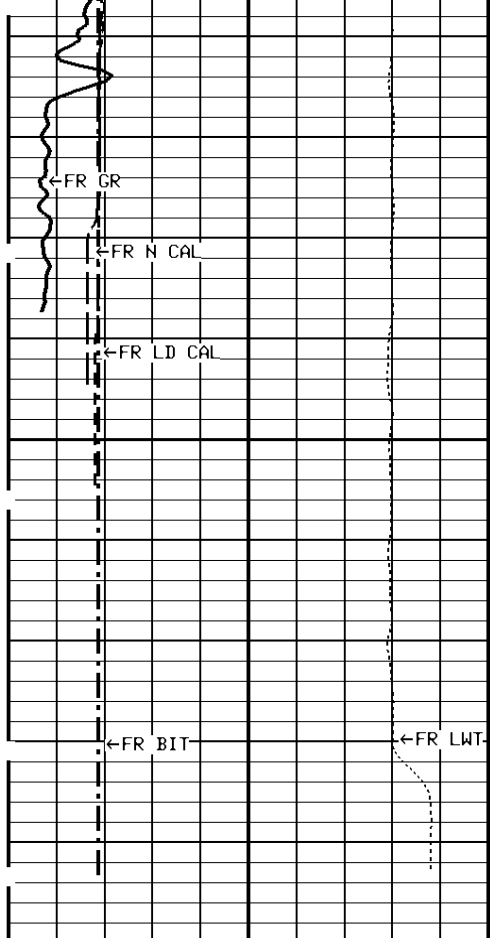


4600

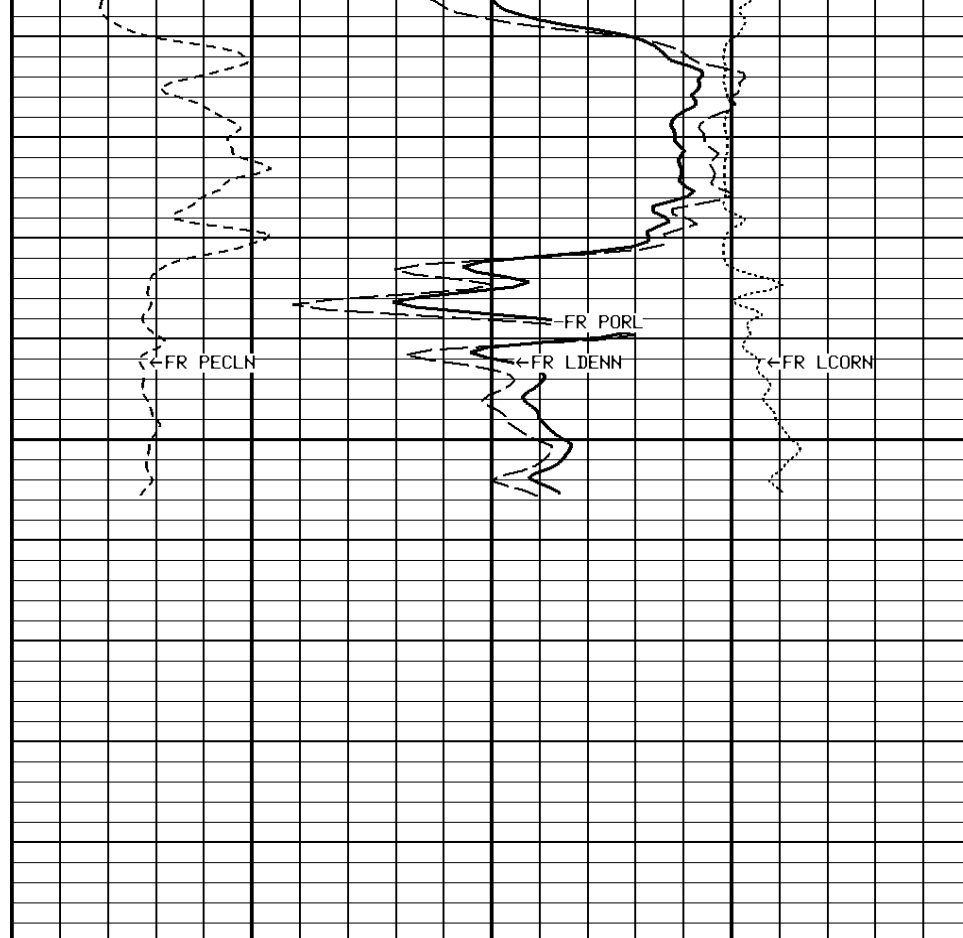
4700

4800





4881



1:240 MAIN SECTION BULK DENSITY

GAMMA RAY API UNITS 150  300 0 150		-BHV AHV- CU.FT		COMPENSATED BULK DENSITY G/CC 3.0 4.0 2.0 3.0 1.0 2.0	
NEUTRON (Y) CALIPER INCHES (IN) 16 26 6 16				DENSITY POROSITY PERCENT (2.71 g/cc) 30 -10	
DENSITY (X) CALIPER INCHES (IN) 16 26 6 16				PE CROSS-SECTION BARNs/ELECTRON 0 10	DENSITY CORRECTION G/CC -0.25 0.25
BIT SIZE INCHES (IN) 6 16					
TENSION LBS 10000 0					

*** Borehole Zone Factors ***

Zone 1 99999.0 to 0.0 F				
Matrix Density_____	2.71	G/C3		
Fluid Density_____	1.00	G/C3		
Formation Matrix_____	Limestone			
Drill Bit Size_____	7.875	IN		
Production Casing Diameter_____	4.500	IN		
Casing Correction (PHI N)_____	Disable			

*** Calibration Summary ***

Shop Calibration					
GRTB					
Performed : 12-Feb-2009			Time : 15:11		
Sensor Suite : GR-GR5			ID : GRT-BA-017		
	Measured	Units	Calibrated	Units	
	Background	Jig	Jig		
GR	56	371	CPS	175	GRAPI
Shop Calibration					
CNT					
Performed : 05-Feb-2010			Time : 16:01		
Sensor Suite : BHC NEUT			ID : CNP-AA-106		
Source ID : N-1043					
	Tank	Verification	Units		
	Measured	Calibrated	Jig		
N/F	3.7881	3.6894	3.6909		
Porosity	22.0	20.5	20.5		%
Shop Calibration					
LDTNG					
Performed : 05-JAN-2009			Time : 11:32		
Sensor Suite : CALI-BCN			ID : CNP-AA-106		
	Jig - Measured		Jig - Calibrated		Units
	Ring#1	Ring#2	Ring#1	Ring#2	
CL # 1	8.6	14.3	6.0	12.0	IN.
Shop Calibration					
LDTNG					
Performed : 05-FEB-2010			Time : 14:53		
Sensor Suite : CALIPEL			ID : LDP-DA-065		
	Jig - Measured		Jig - Calibrated		Units
	Ring#1	Ring#2	Ring#1	Ring#2	
CL # 1	6.7	10.3	6.0	12.0	IN.
Shop Calibration					
BHCPELNG					
Performed : 05-Feb-2010			Time : 14:40		
Sensor Suite : BHCPELNG			ID : LDP-DA-065		
Source ID : CSV-C2					
	Short Space				
	BKGD	Al	Mg	Al+Fe	Units
LSW1	71	514	832	352	CPS
LSW2	77	626	1001	456	CPS
LSW3	289	1499	2376	1302	CPS
LSW4	354	1416	1972	1269	CPS
LSW5	33	43	45	42	CPS
LSW6	95	96	97	98	CPS
LSW7	62	62	61	62	CPS
LSW8	2	2	3	3	CPS
QS	0.210	0.215	0.228	0.225	
PES			2.570	6.180	
SSDN		2.600	1.680		G/CC
	Long Space				

	Long space				
	BKGD	Al	Mg	Al+Fe	Units
LLW1	104	595	2426	389	CPS
LLW2	113	1011	4137	751	CPS
LLW3	441	2013	7449	1767	CPS
LLW4	563	1198	3200	1119	CPS
LLW5	63	70	86	66	CPS
LLW6	179	174	167	177	CPS
LLW7	116	113	113	114	CPS
LLW8	5	6	12	6	CPS
QL	0.214	0.213	0.193	0.216	
PEL			2.570	6.180	
LSDN		2.600	1.680		G/CC