

Tucker

WIRELINER SERVICES

COMPENSATED NEUTRON
PEL DENSITY MICRO LOG

Company	AMERICAN ENERGIES CORP
Well	#1-11 MASTRE TRUST
Field	RITZ-CANTON
County	MCPHERSON
State	KANSAS
Country	USA
API No.	15-113-21346
File No	56803
Company	AMERICAN ENERGIES CORPORATION
Well	#1-11 MASTRE TRUST
Field	RITZ-CANTON
County	MCPHERSON
State	KANSAS
Country	USA
API No	15-113-21346
Location	1980' FSL & 1815' FEL W2 E2 NW SE
LSD	Sect : 11 Twp : 19S Rge : 2W

Permanent Datum:	GL	Elevations:	Services:
Drilling Measured From:	KB	KB 1568.00	GRT MLT
Log Measured From:	KB	DF 1567.00	CNT CST
Above Permanent Datum:	9.00 Ft	GL 1559.00	LDT PIT
Date	2011-05-15		
Run Number	1		
Depth--Driller	3500.0	Ft	
Depth--Logger	3500.0	Ft	
First Reading	3499.0	Ft	
Last Reading	202.0	Ft	
Casing--Driller	202.0	Ft	
Casing--Logger	202.0	Ft	
Bit Size	7.875	In	
Casing Size	8.625	In	
Hole Fluid Type	CHEM		
Density	9.4	LBS/GAL	
Fluid Loss	9.2	CC	
PH/Viscosity	9.0	50.0 SEC	
Sample Source	FLOWLINE		
RMF@Measured Temp.	3.000	@ 60 F	
RMF@Measured Temp	3.450	@ 60 F	
RMF@Measured Temp.	2.550	@ 60 F	
Source RMF/RMC	CALCULATED	CALCULATED	
RM@BHT	1.530	@ 122 F	
Time Circulation Stopped			
Max Recorded Temp.	122	F	
Equipment/Base	TRK 127	TULSA	
Recorded By	T. MONTGOMERY		
Witnessed By	D. BARKER		

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.

Bitsize Intervals		Casing Strings		
Size (In)	Bottom (Ft)	Size (In)	Weight (Lbs)	Bottom (Ft)
7.875	3500.00	8.625	32.00	202.00

Run Number	1	
Date	2011-05-15	
Date/Time On Bottom		
Depth to Fluid	0.0	Ft
Salinity	0.000	PPM
RMF@BHT	1.750	@ 122 F
RMC@BHT	1.300	@ 122 F

Run Number 1

Comments

ALL PRESENTATIONS AS PER CUSTOMER REQUEST
 GRT, CNT, LDT, MLT, CST AND PIT RUN IN COMBINATION.
 CALIPERS ORIENTED ON X-Y AXIS.
 2.71 G/CC USED TO CALCULATED POROSITY.
 ANNULAR HOLE VOLUME CALCULATED UISING 5.500" PRODUCTION CASING.

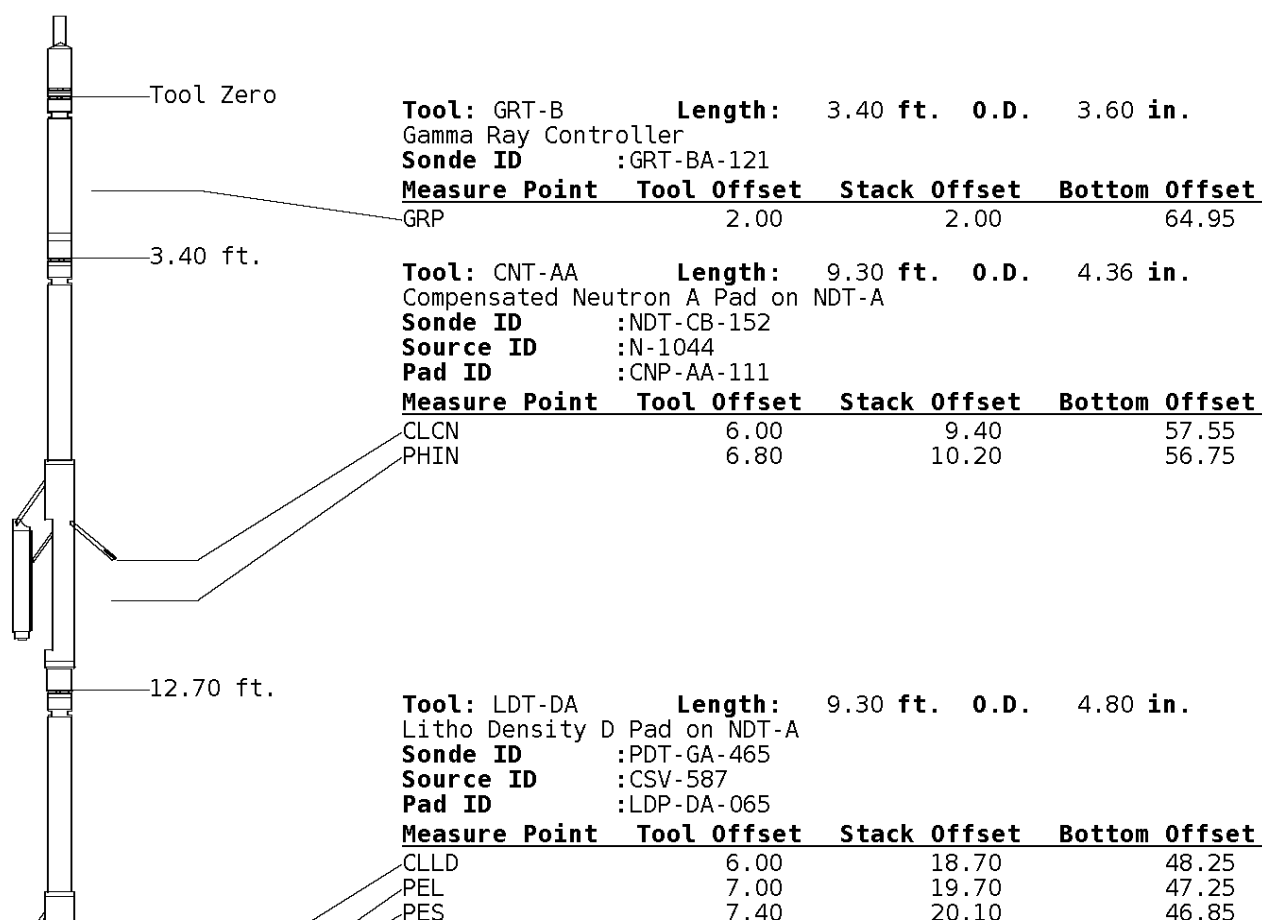
GRT: GRP.
 CNT: PHIN, CLCNIN
 LDT: PORL, LCORN, PECLN, LDENN, PORLLS, CLLDIN.
 MLT: NOR_R, INV_R, MSCLPIN.
 CST: PORS, DDCDTE, TT1PF, TT3PF, ITT.
 PIT: ILD, ILM, SPU, SFLAEC

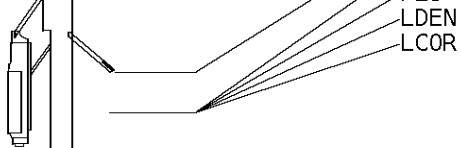
OPERATORS:

J.THOMAS

Tool String Schematic

Total Tool Length - 66.95 ft.
Maximum Outside diameter - 6.00 in.
Net Weight in Air - 1171.00 lbs.



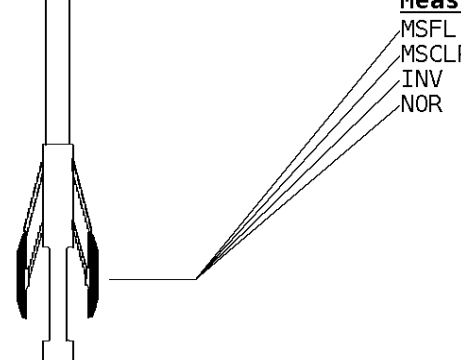


7.20 19.90 47.05
7.20 19.90 47.05

22.00 ft.

Tool: MST-DA **Length:** 9.66 ft. **O.D.** 6.00 in.
Micro Spherically Focused (IC)
Sonde ID :MST-NG-26

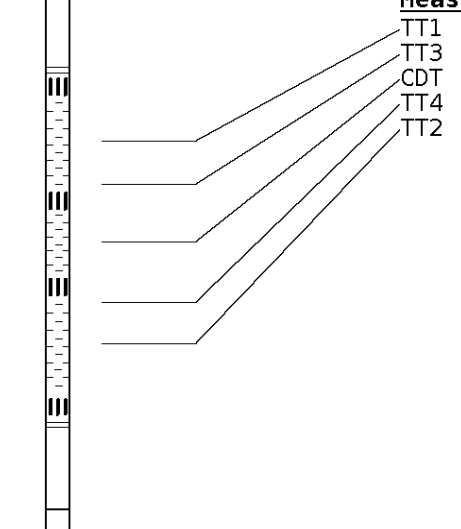
Measure Point	Tool Offset	Stack Offset	Bottom Offset
MSFL	7.60	29.60	37.35
MSCLP	7.60	29.60	37.35
INV	7.60	29.60	37.35
NOR	7.60	29.60	37.35



31.66 ft.

Tool: CST-AD **Length:** 13.80 ft. **O.D.** 3.60 in.
Open Hole Sonic
Sonde ID :CST-AD-38

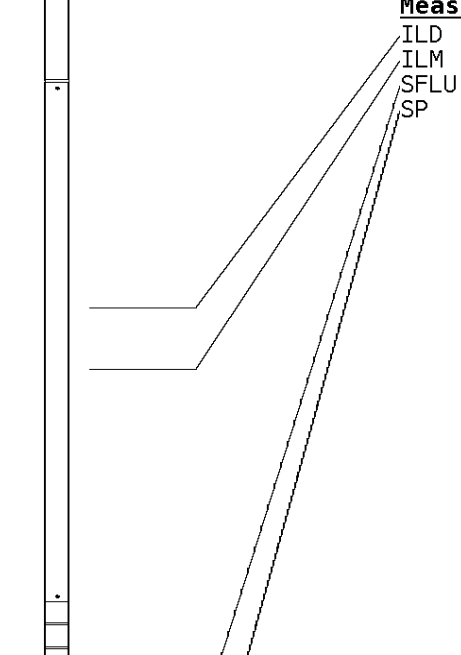
Measure Point	Tool Offset	Stack Offset	Bottom Offset
TT1	4.80	36.46	30.49
TT3	5.80	37.46	29.49
CDT	7.30	38.96	27.99
TT4	8.80	40.46	26.49
TT2	9.80	41.46	25.49



45.46 ft.

Tool: PIT-CA **Length:** 21.49 ft. **O.D.** 3.62 in.
Phased Dual Induction w/ RM & D
Sonde ID :PIT-CA-074

Measure Point	Tool Offset	Stack Offset	Bottom Offset
ILD	8.92	54.38	12.56
ILM	10.10	55.56	11.39
SFLU	17.49	62.95	4.00
SP	20.60	66.06	0.88



LWT 66.95 ft.

Well File: AMERICAN MASTRE 1-11 APR 15 QUINT

Scale: 1:240

Segment: V1.D1.S5 MN_REPRO

Acquired: 2011-05/15 13:46 3.2.0-9901

Reference: 0

Processed: 2011-05/16 10:00 3.2.0-9901

CALIPER MICRO
INCHES (IN)

16 26
6 16

TENSION
LBS

10000 0

BIT SIZE
INCHES (IN)

6 16

Volume
Dolo/Shale



MICRO-INVERSE
OHMM

0 40

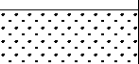
MICRO-NORMAL
OHMM

0 40

DENSITY (X) CALIPER
INCHES (IN)

16 26
6 16

Volume
Quartz



PE CROSS-SECTION
BARNES/ELECTRON

0 10 -0.25 0.25

DENSITY CORRECTION
G/CC

NEUTRON (Y) CALIPER
INCHES (IN)

16 26
6 16

Volume
Calcite



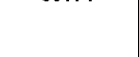
NEUTRON POROSITY
PERCENT (LIMESTONE MATRIX)

30 -10

GAMMA RAY
API UNITS

150 300
0 150

-BHV AHV-
CU.FT

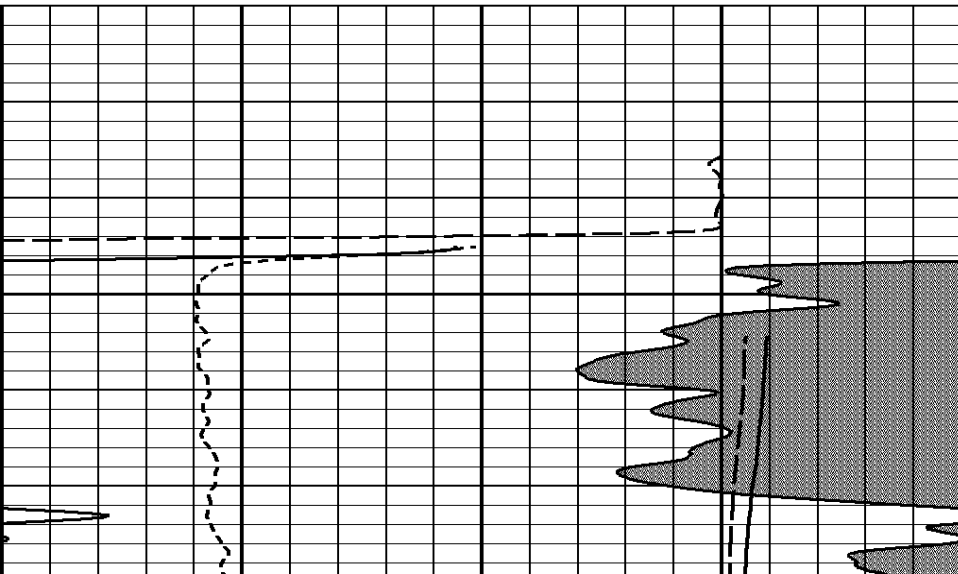
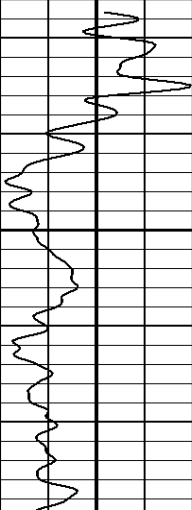


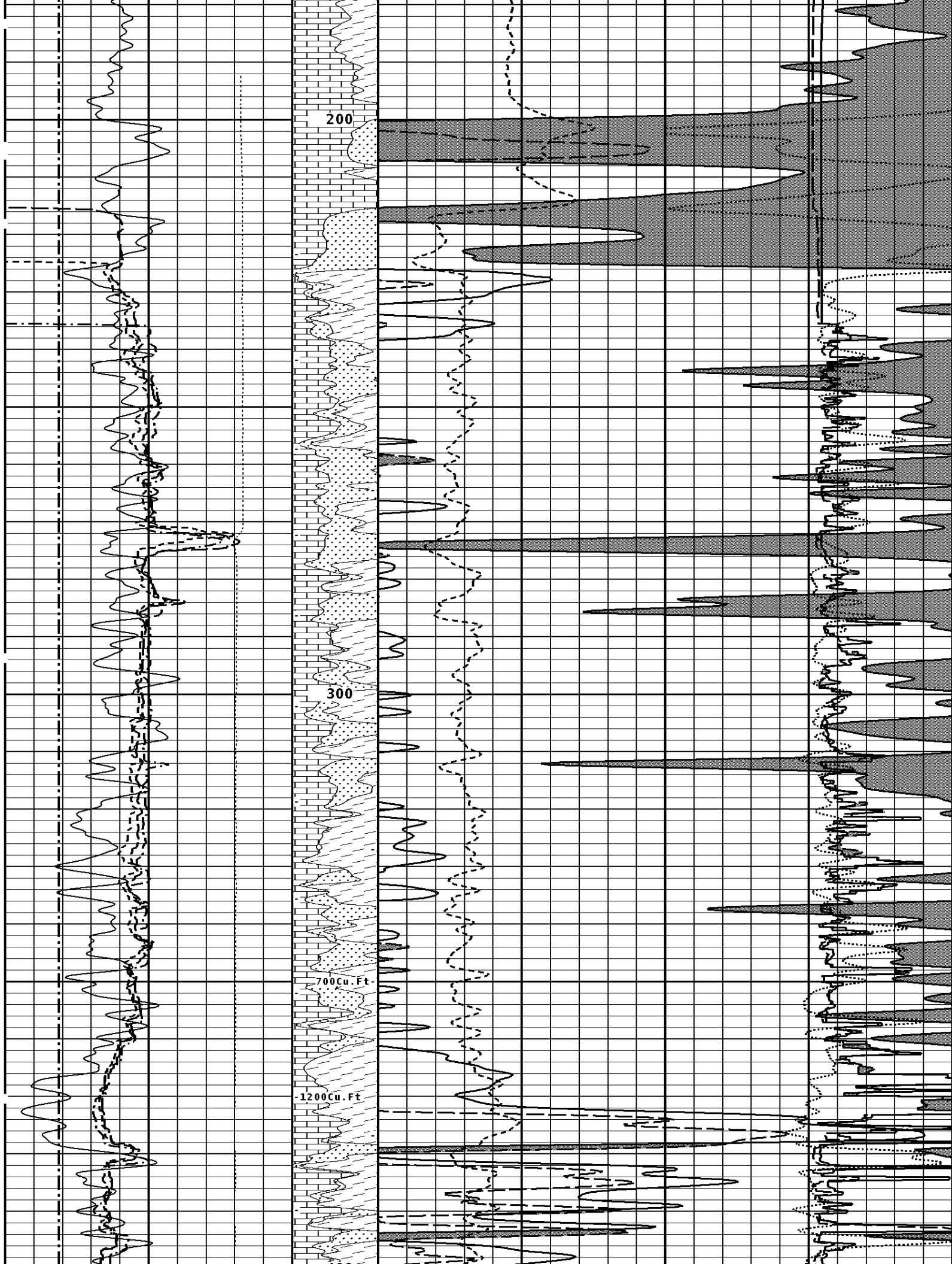
DENSITY POROSITY
PERCENT (2.71 g/cc)

70 30
30 -10
-10 -50

1:240 MAIN SECTION

File #1.1.5



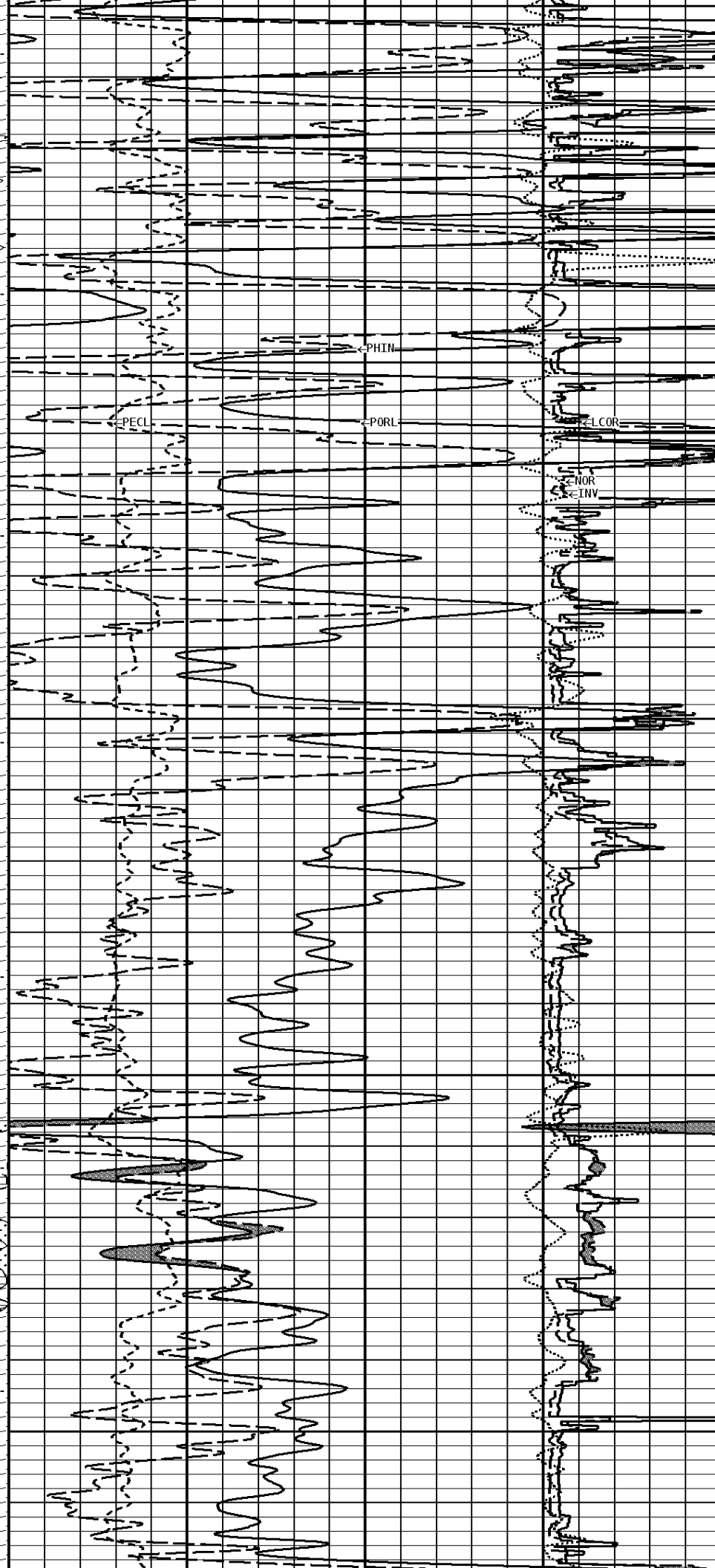
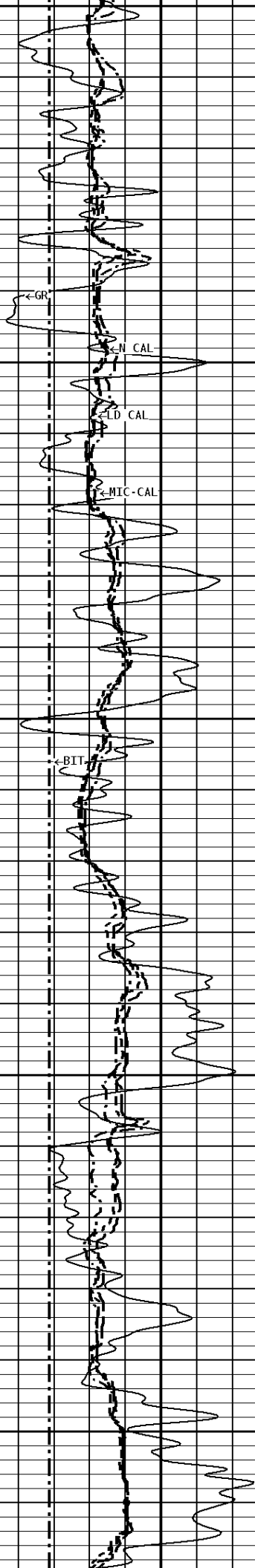


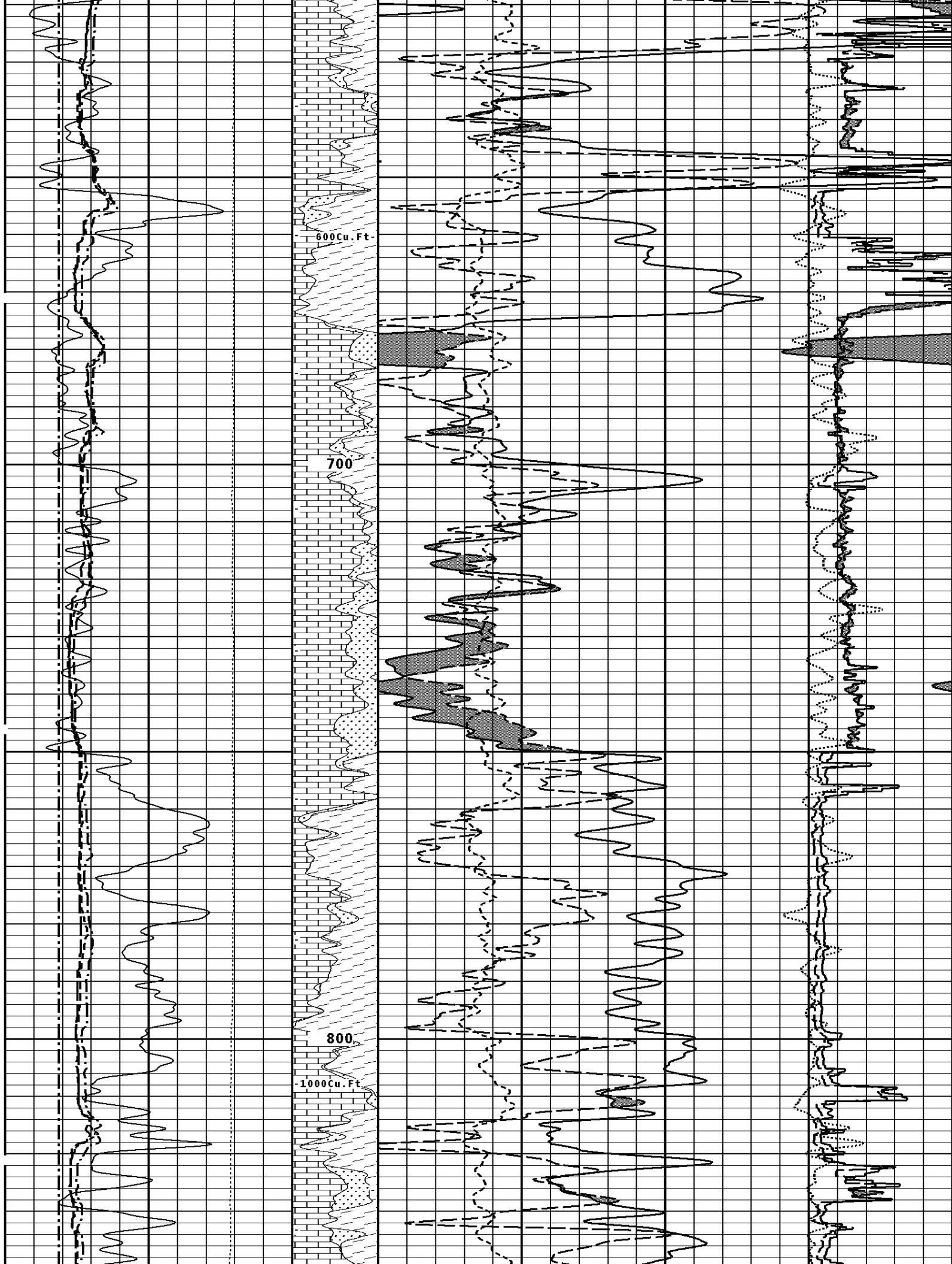
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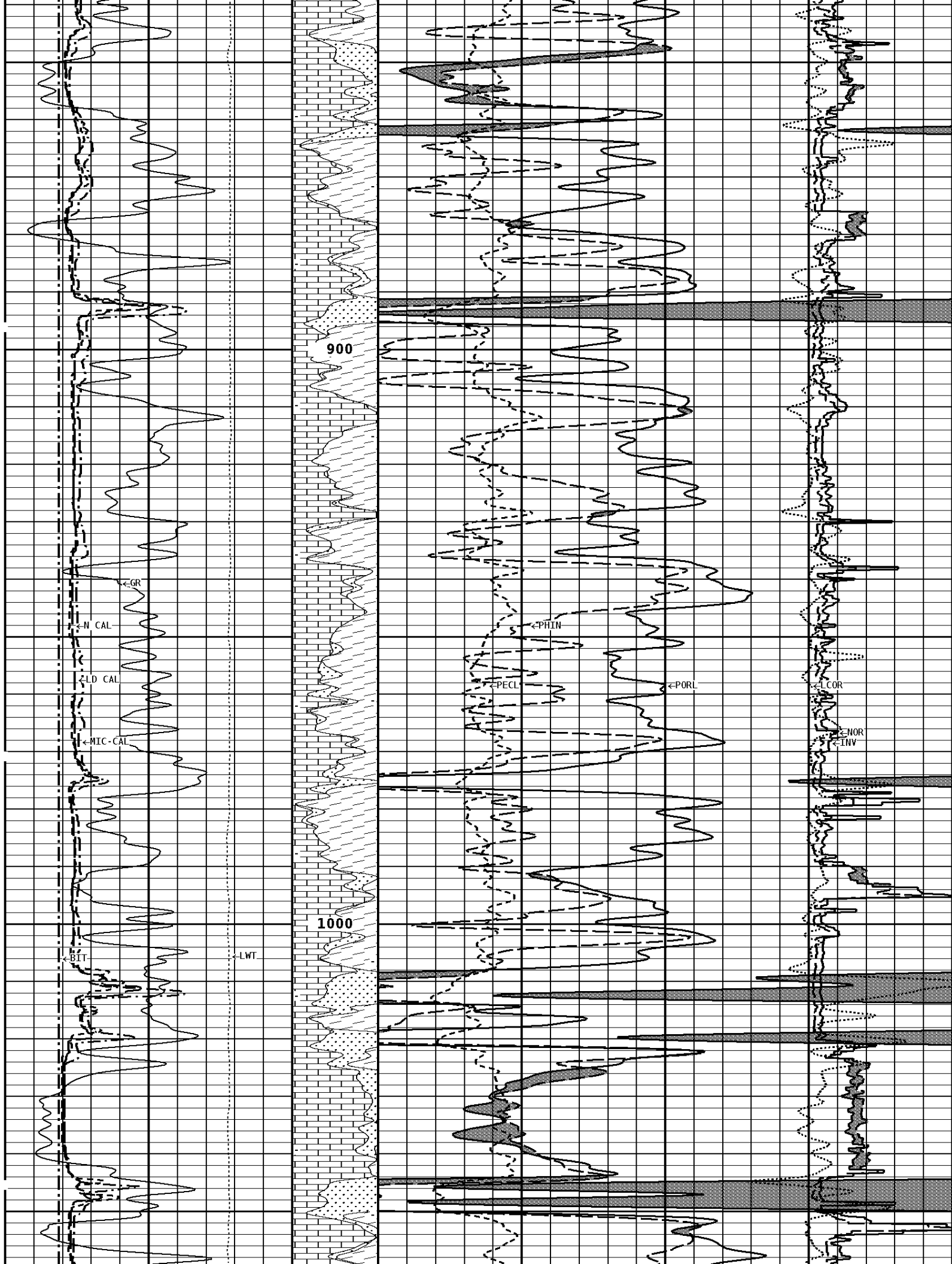
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1100 Cu. Ft.

600





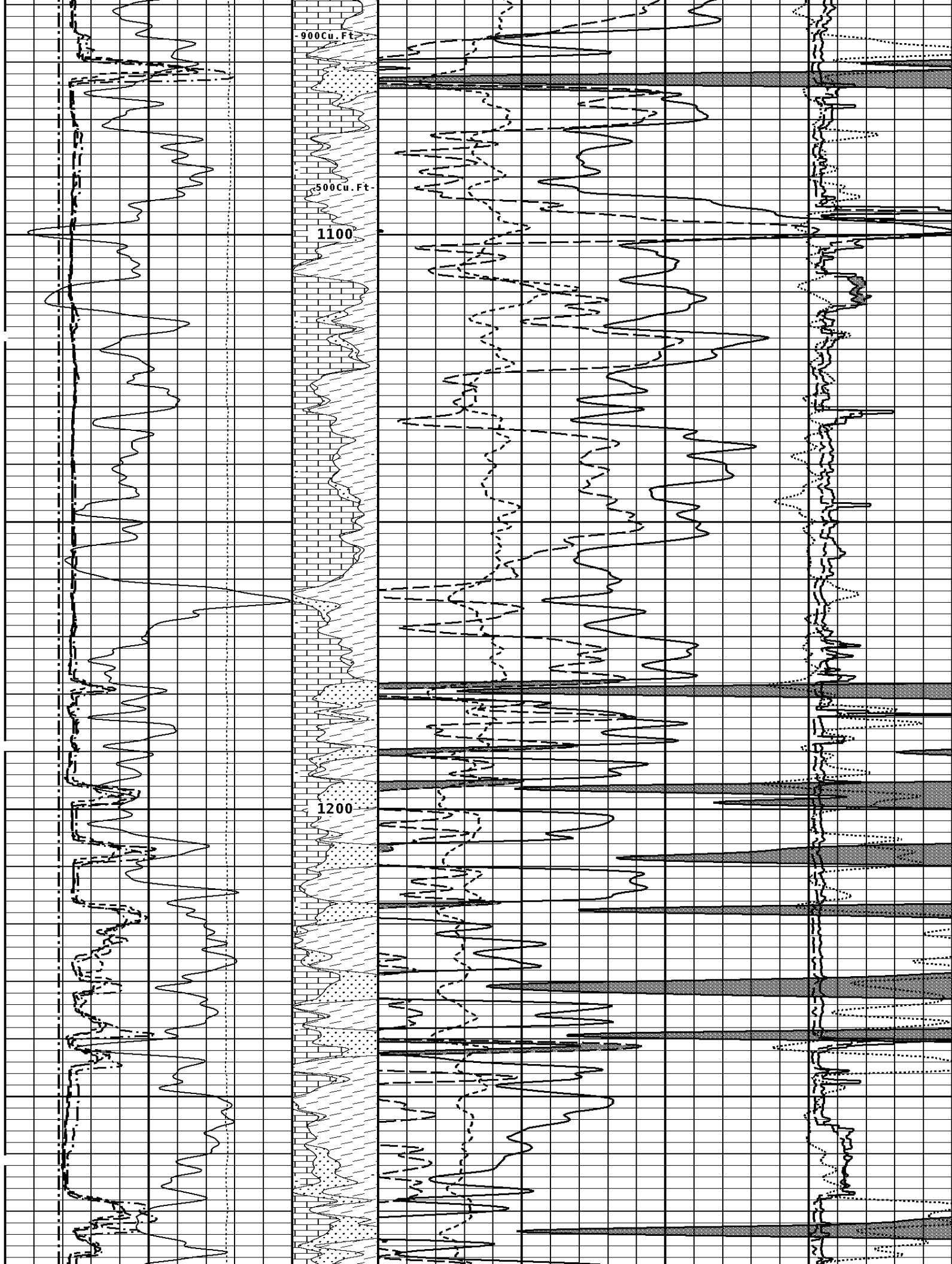


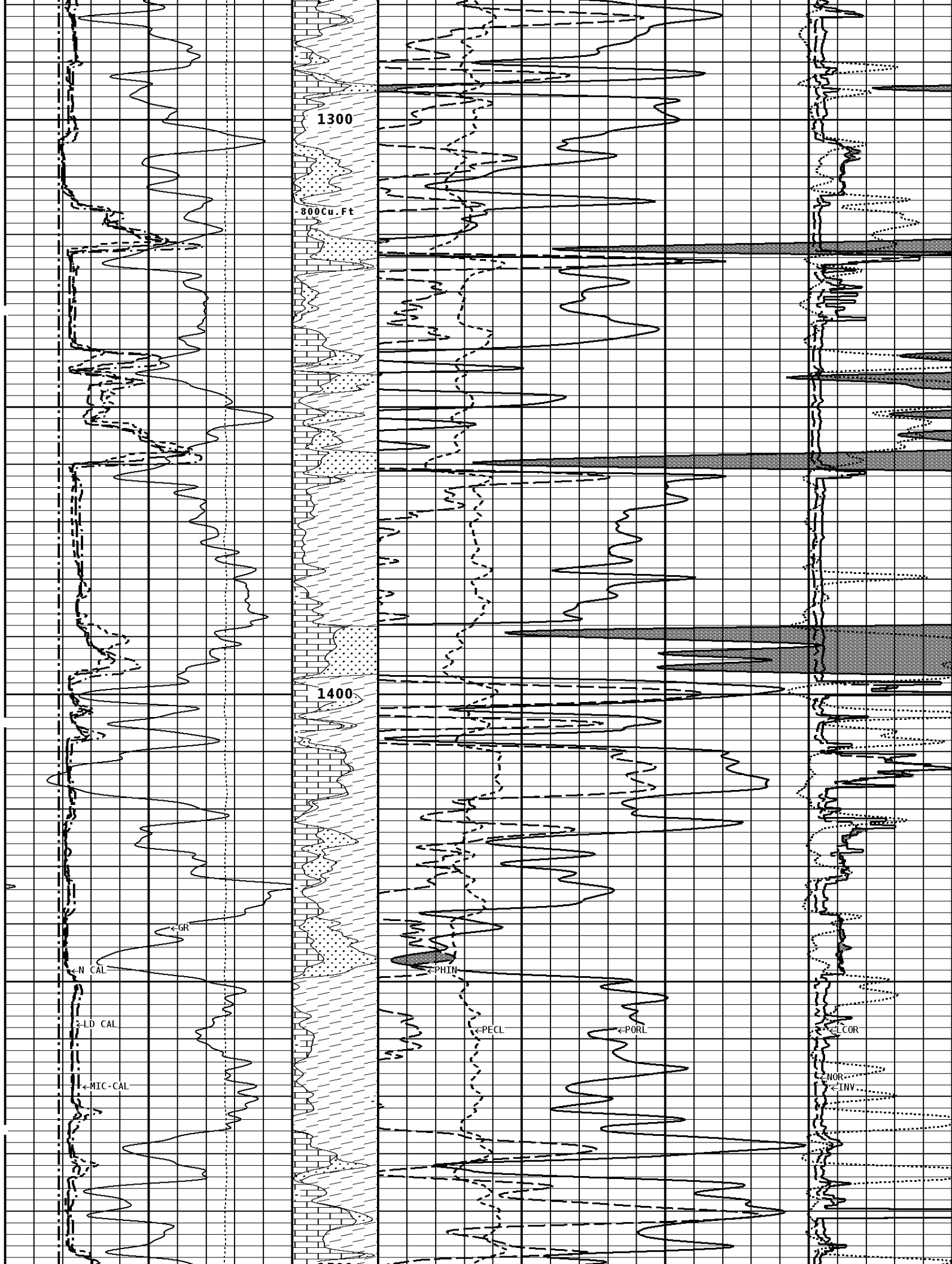
900 Cu. Ft.

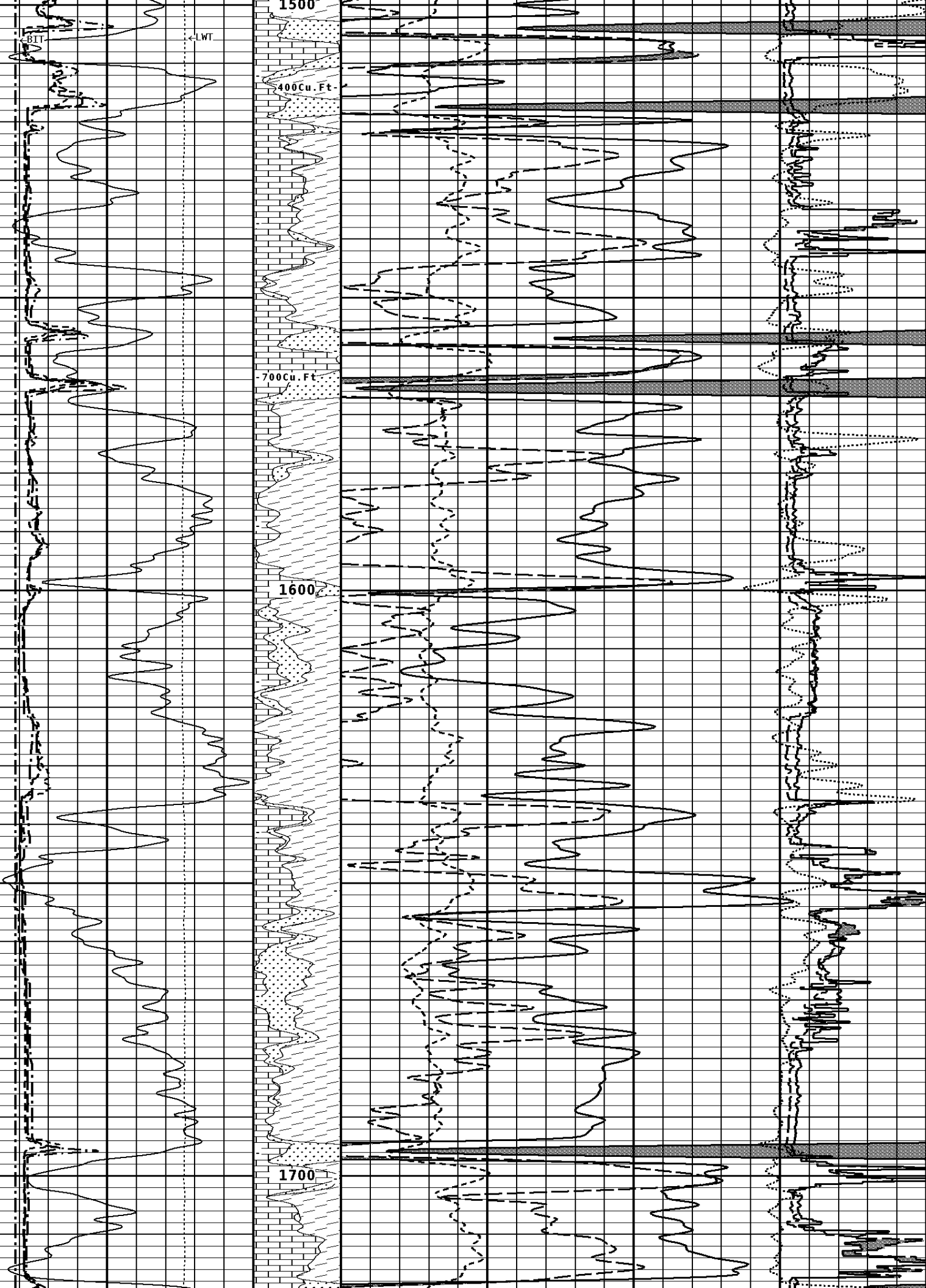
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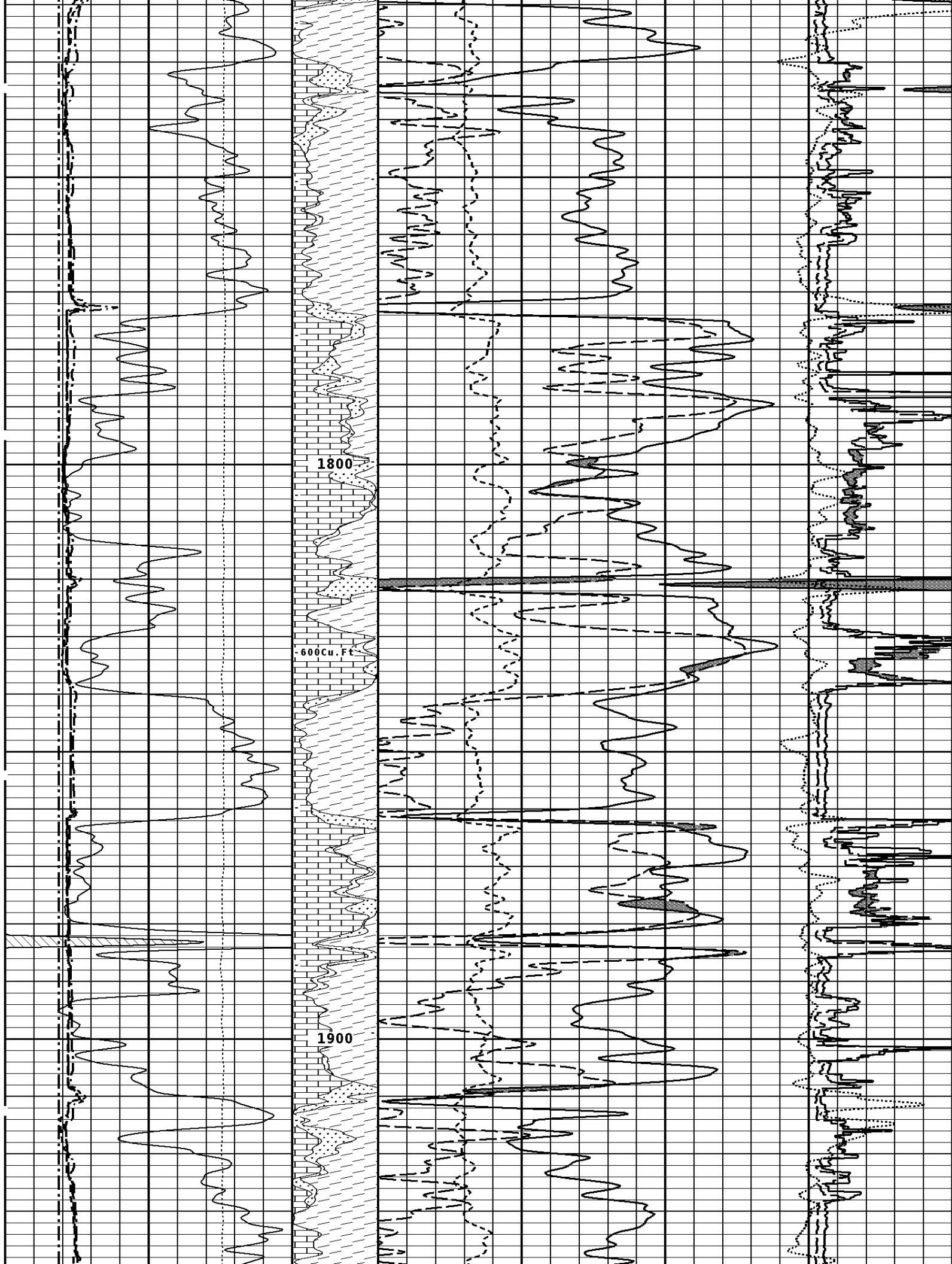
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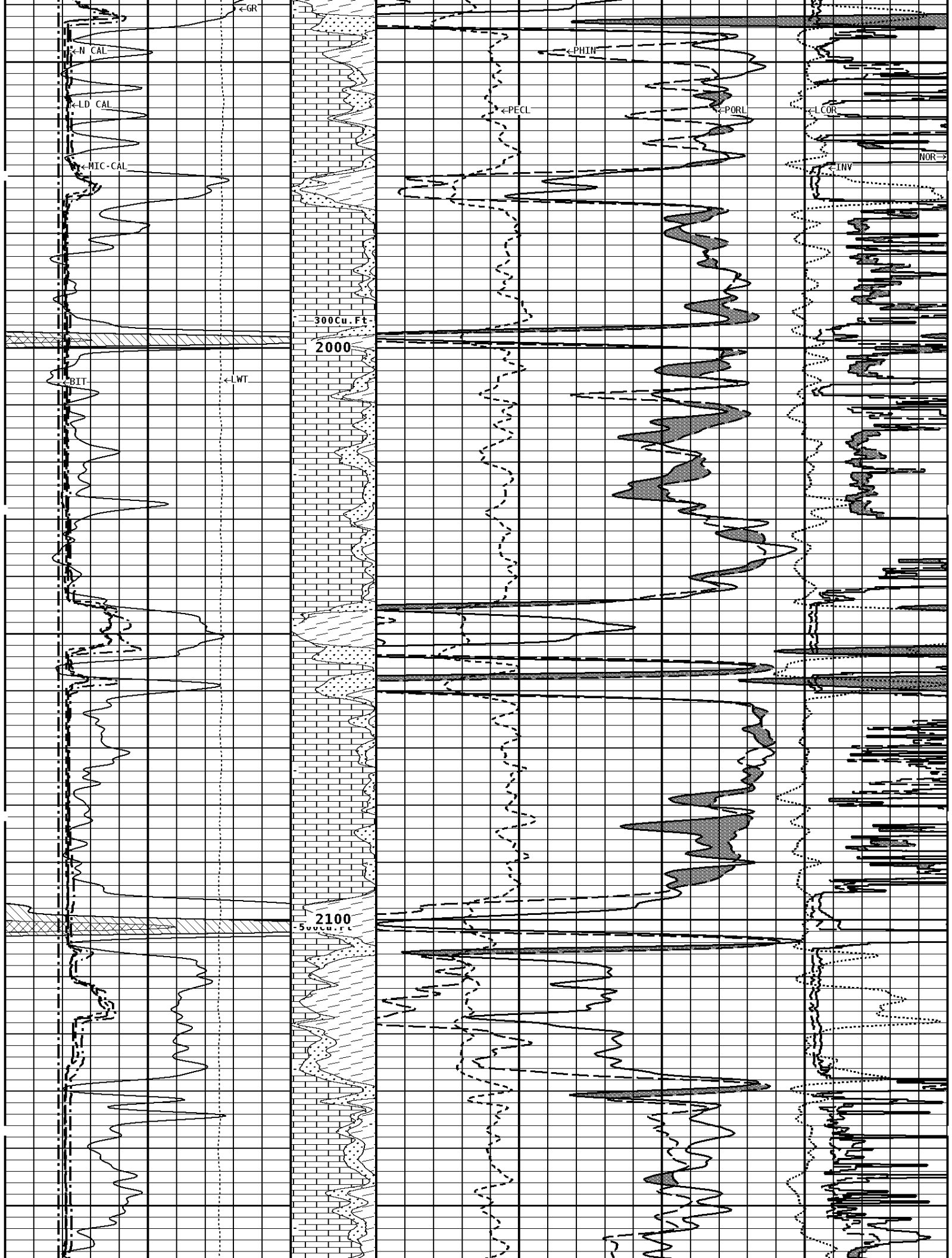
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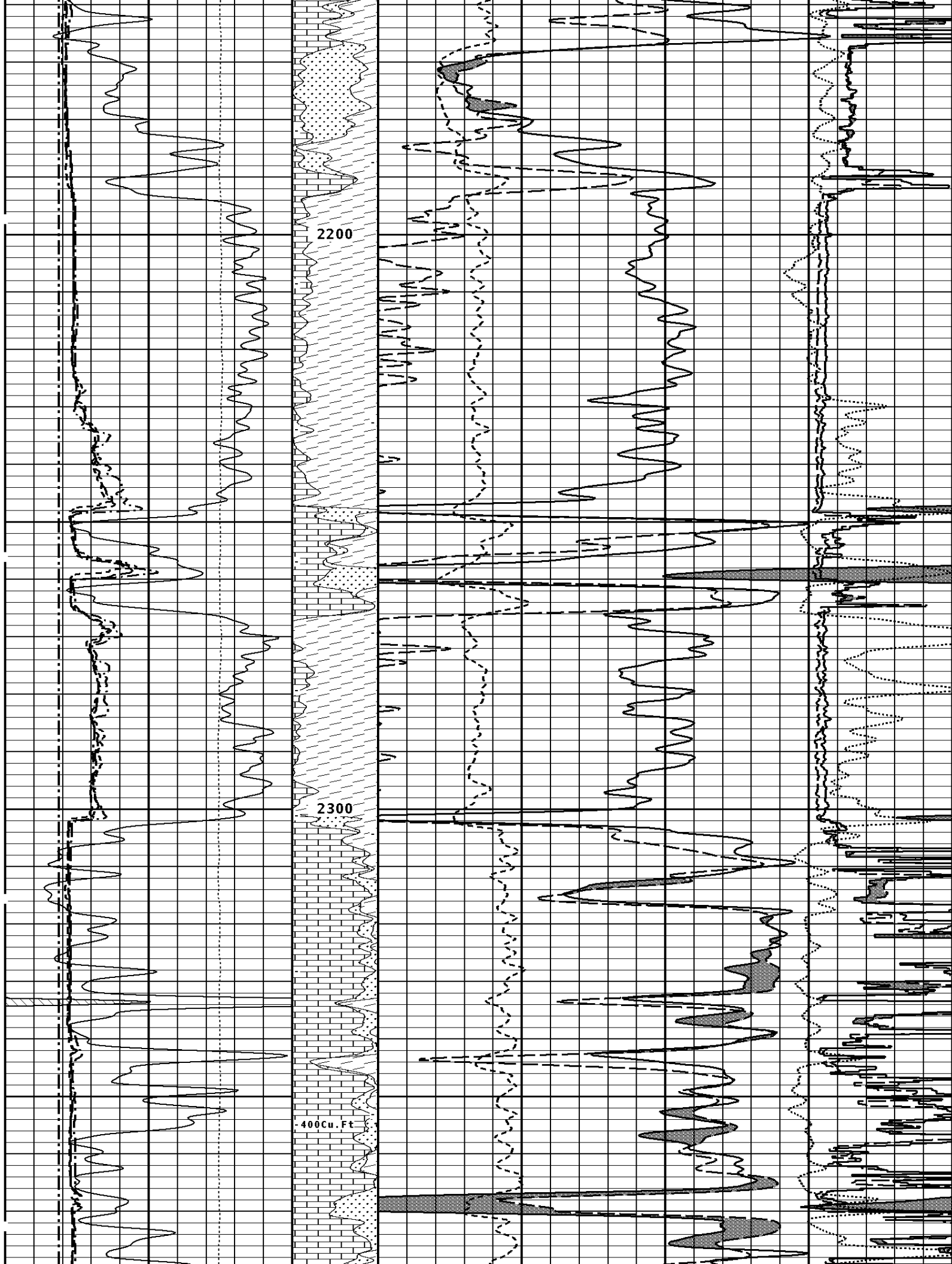


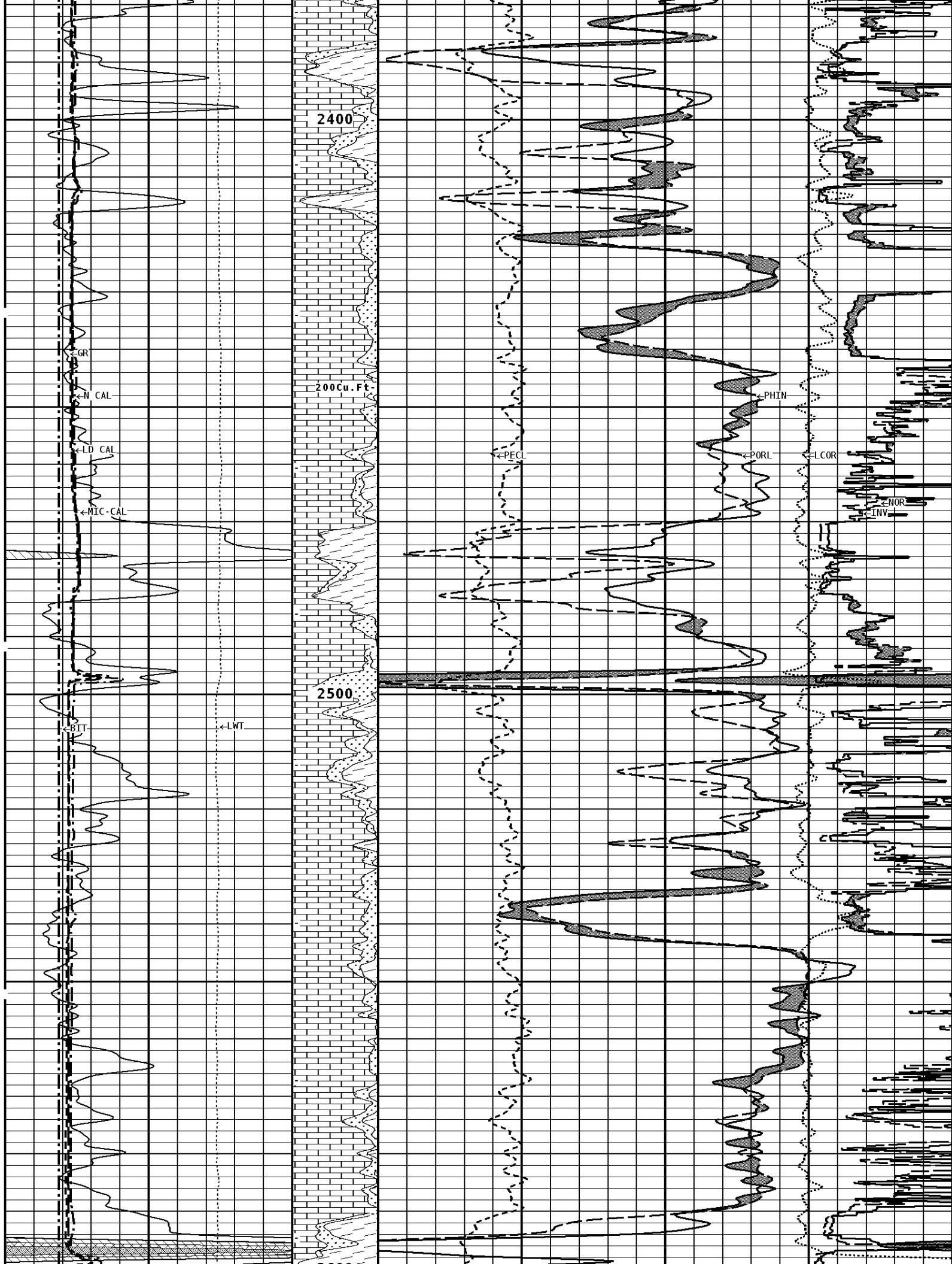


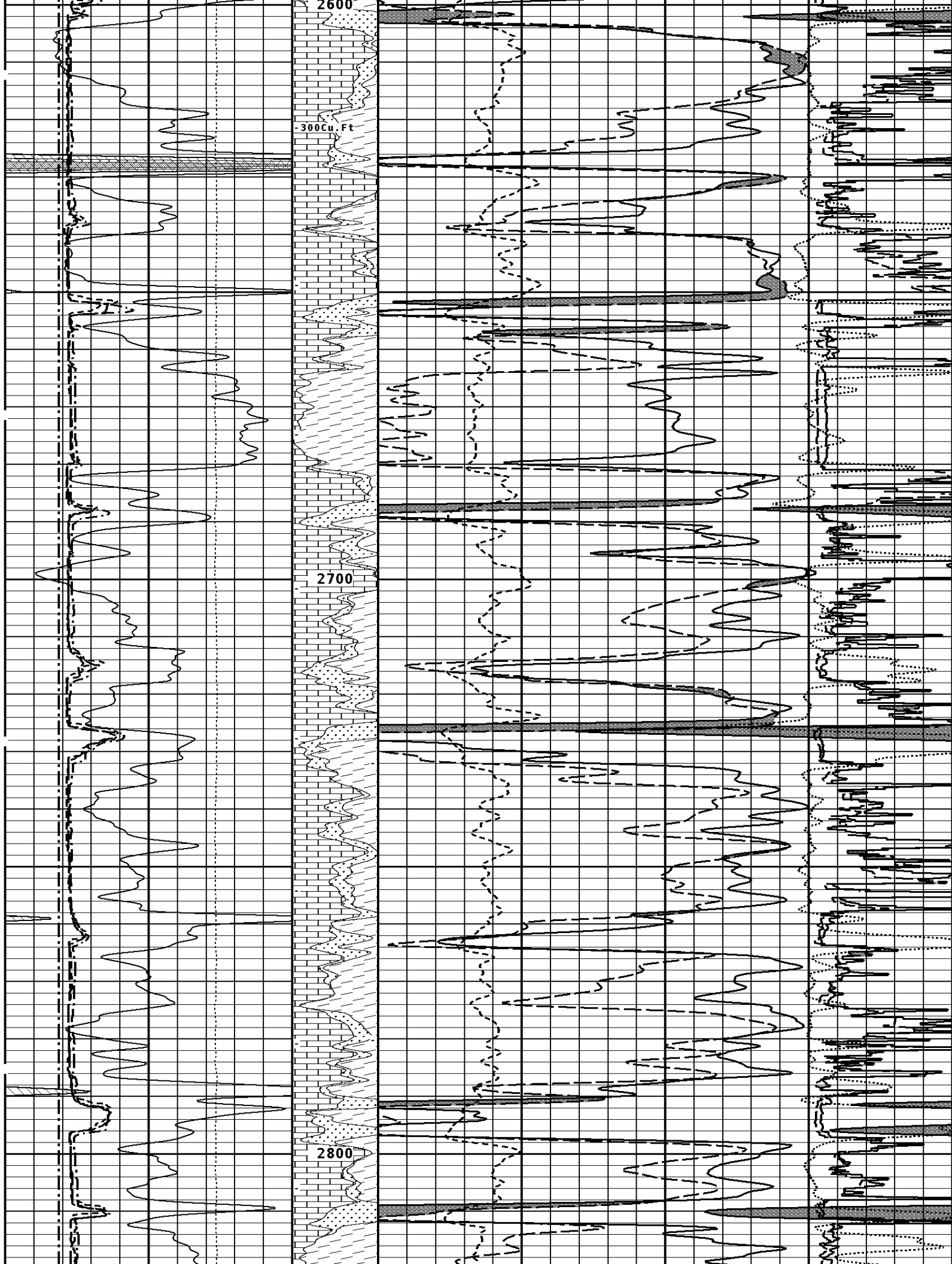


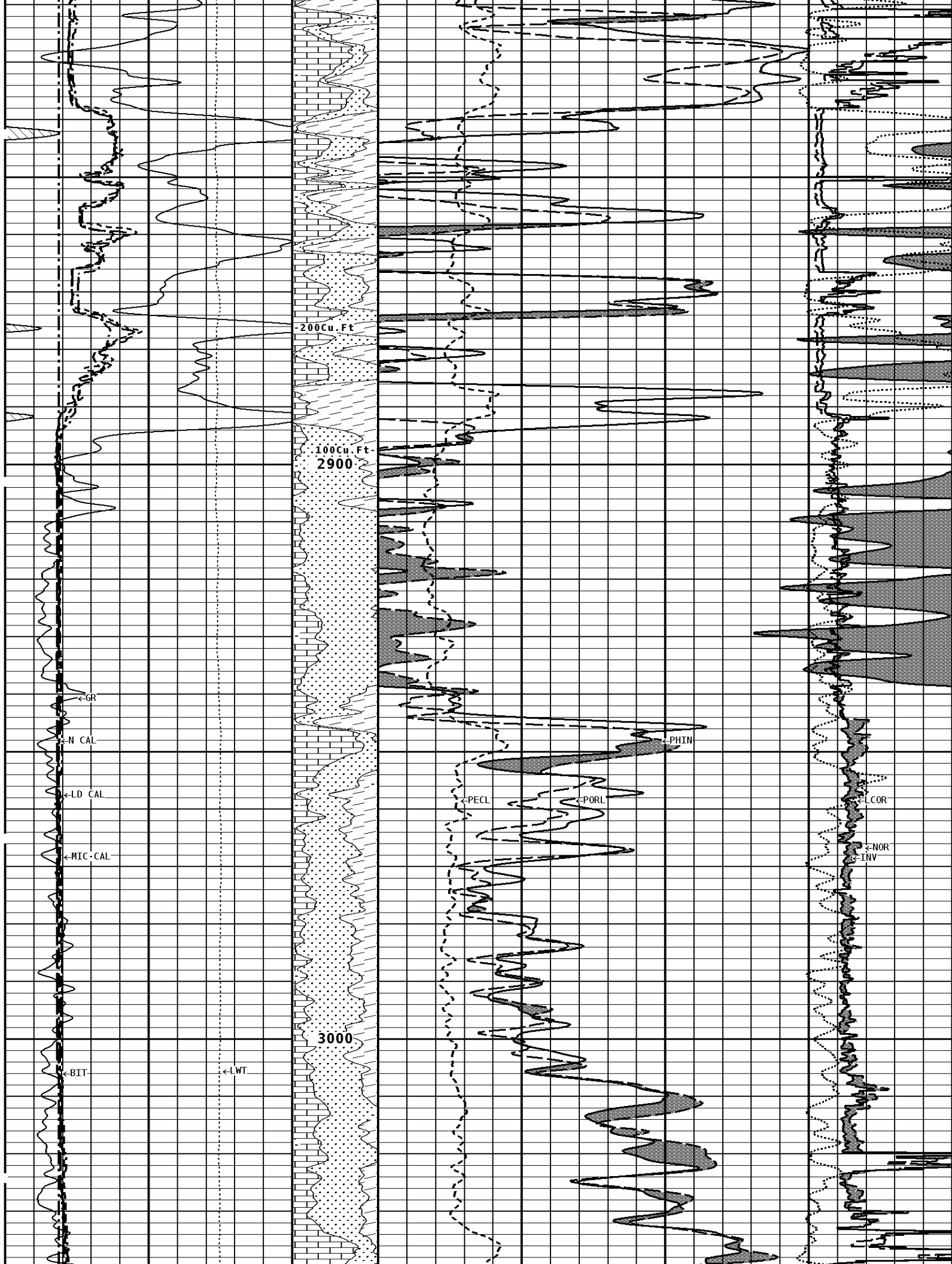


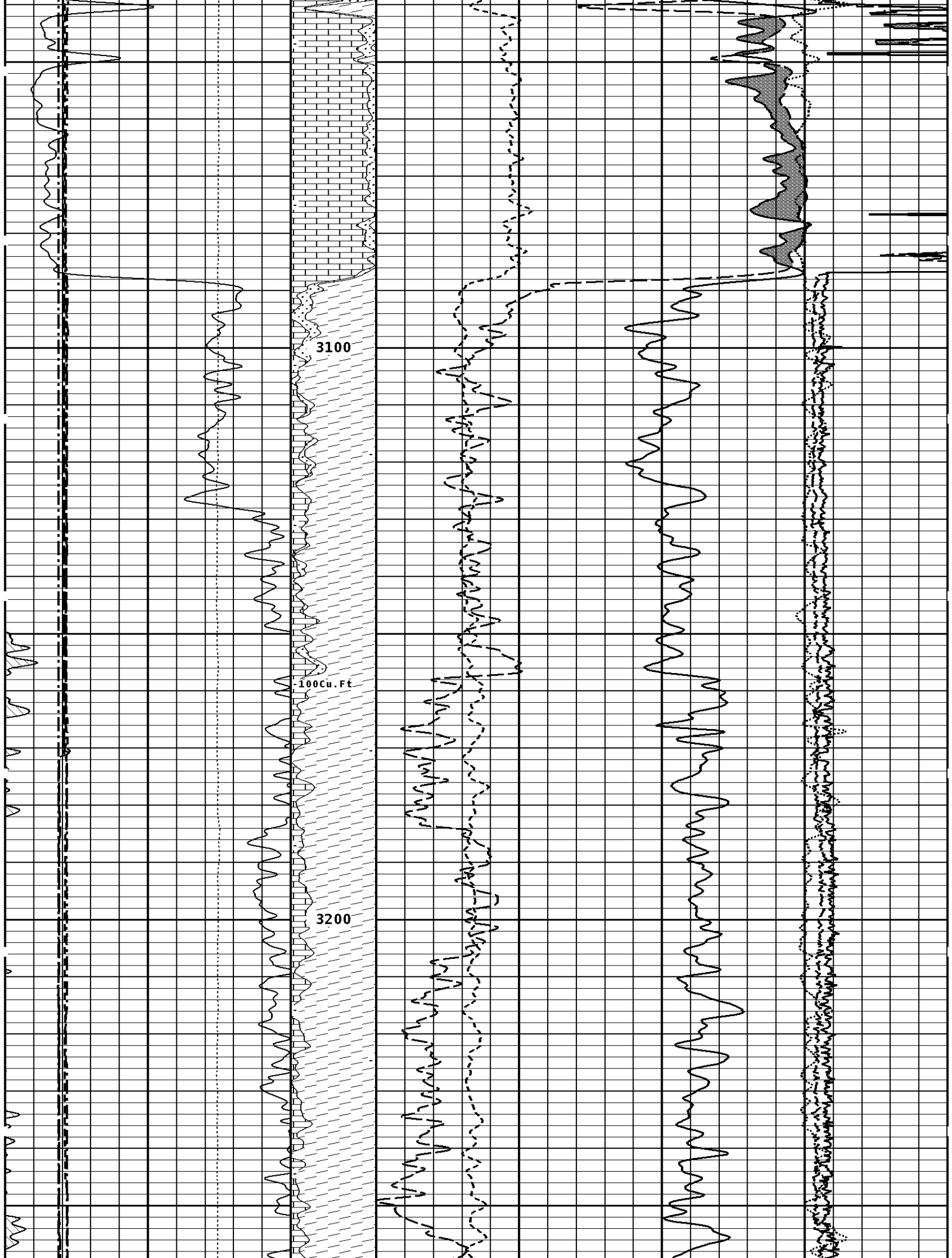


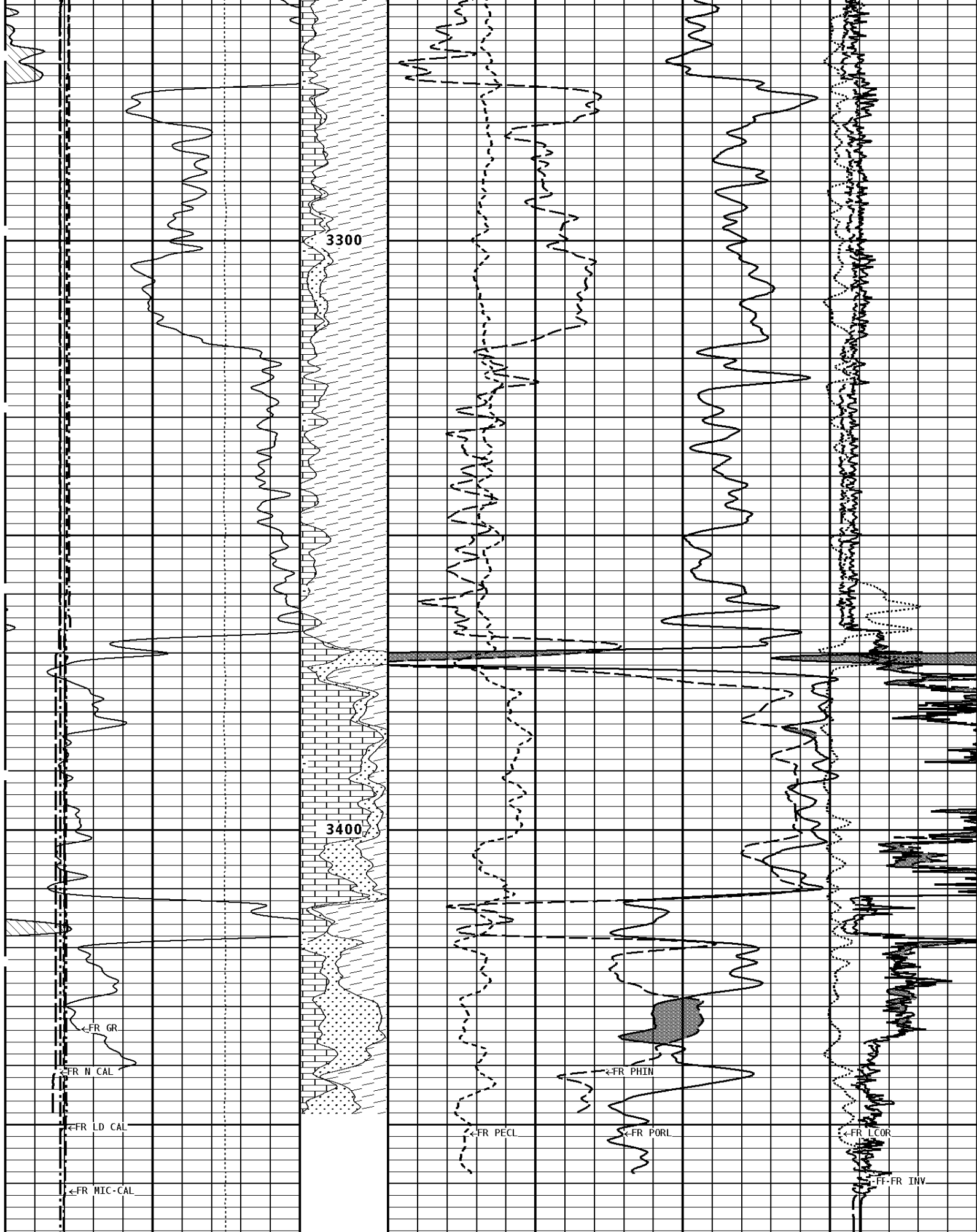


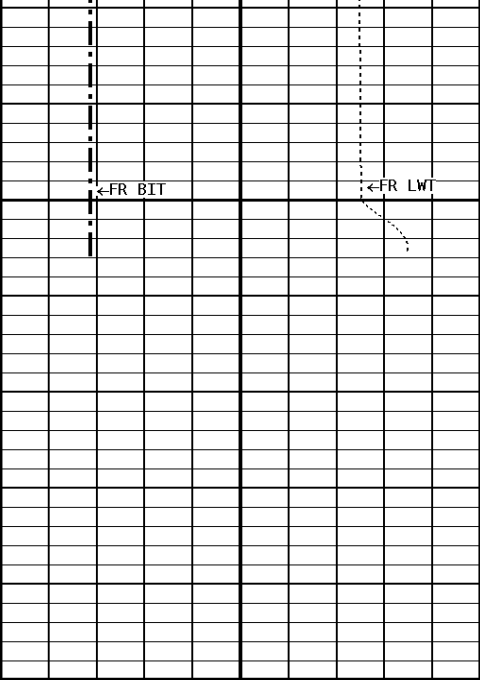












3499

File #1.1.5

1:240 MAIN SECTION

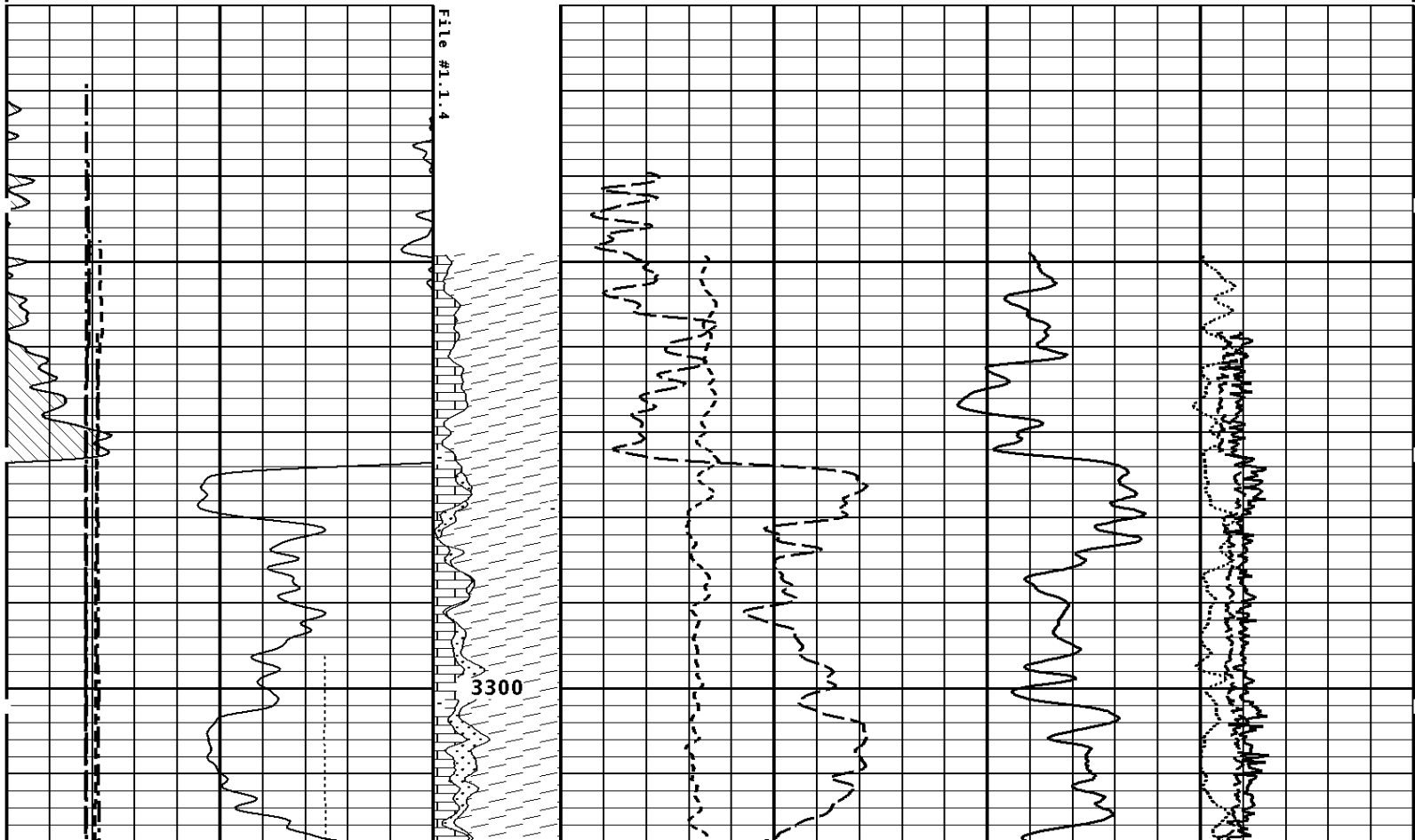
GAMMA RAY API UNITS		- BHV AHV - CU. FT	DENSITY POROSITY PERCENT (2.71 g/cc)	
150	300		70	30
0	150		30	-10
			-10	-50
NEUTRON (Y) CALIPER INCHES (IN)		Volume Calcite	NEUTRON POROSITY PERCENT (LIMESTONE MATRIX)	
16	26		30	-10
6	16			
DENSITY (X) CALIPER INCHES (IN)		Volume Quartz	PE CROSS-SECTION BARNs/ELECTRON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

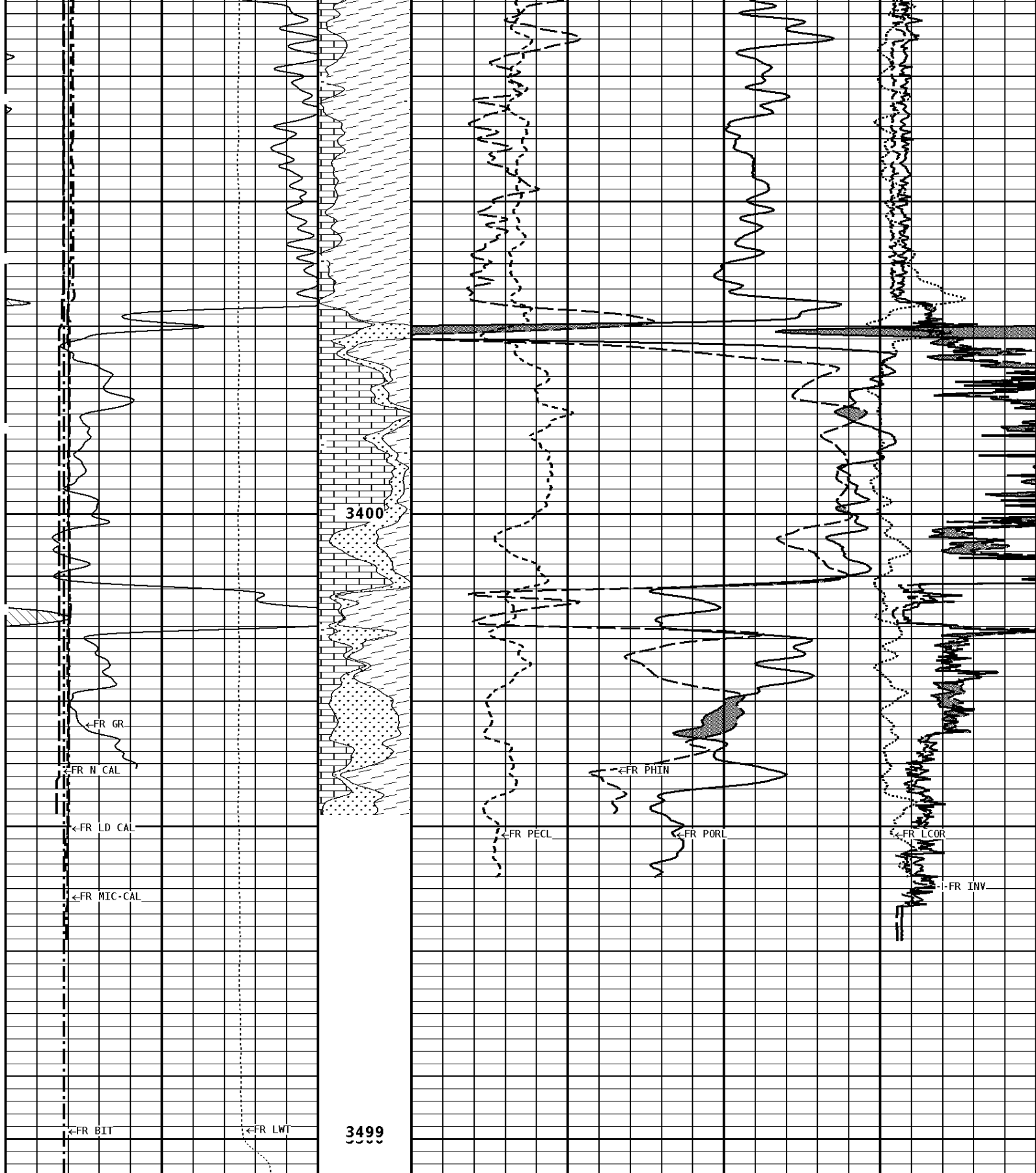
* Borehole Zone Factors *

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 Correction (PHI N)	Disable	

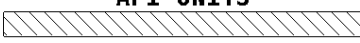
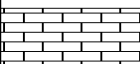
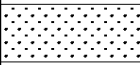
CALIPER MICRO INCHES (IN)					
16	26				
6	16				
TENSION LBS				MICRO-INVERSE OHMM	
10000		0		0	
BIT SIZE INCHES (IN)		Volume Dolo/Shale		MICRO-NORMAL OHMM	
6		16		0	
DENSITY (X) CALIPER INCHES (IN)		Volume Quartz		PE CROSS-SECTION BARNs/ELECTRON	
16	26	0		10	
6	16			DENSITY CORRECTION G/CC	
				-0.25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

1:240 REPEAT SECTION





1:240 REPEAT SECTION

GAMMA RAY API UNITS 150  300 0 150		- BHV AHV - CU. FT		DENSITY POROSITY PERCENT (2.71 g/cc) 70 30 -10 -50	
NEUTRON (Y) CALIPER INCHES (IN) 16 26 6 16		Volume Calcite 		NEUTRON POROSITY PERCENT (LIMESTONE MATRIX) 30 -10	
DENSITY (X) CALIPER INCHES (IN) 16 26 6 16		Volume Quartz 		PE CROSS-SECTION BARNs/ELECTRON 0 10 -0.25 0.25	
BIT SIZE INCHES (IN) 6 16		Volume Dolo/Shale 		MICRO-NORMAL OHMM 0 40	
TENSION LBS 10000 0				MICRO-INVERSE OHMM 0 40	
CALIPER MICRO INCHES (IN) 16 26 6 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 Correction (PHI N)	Disable

Well File: AMERICAN MASTRE 1-11 APR 15 QUINT

Scale: 1:240

Segment: V1.D1.S5 MN_REPRO

Acquired: 2011-05/15 13:46 3.2.0-9901

Reference: 0

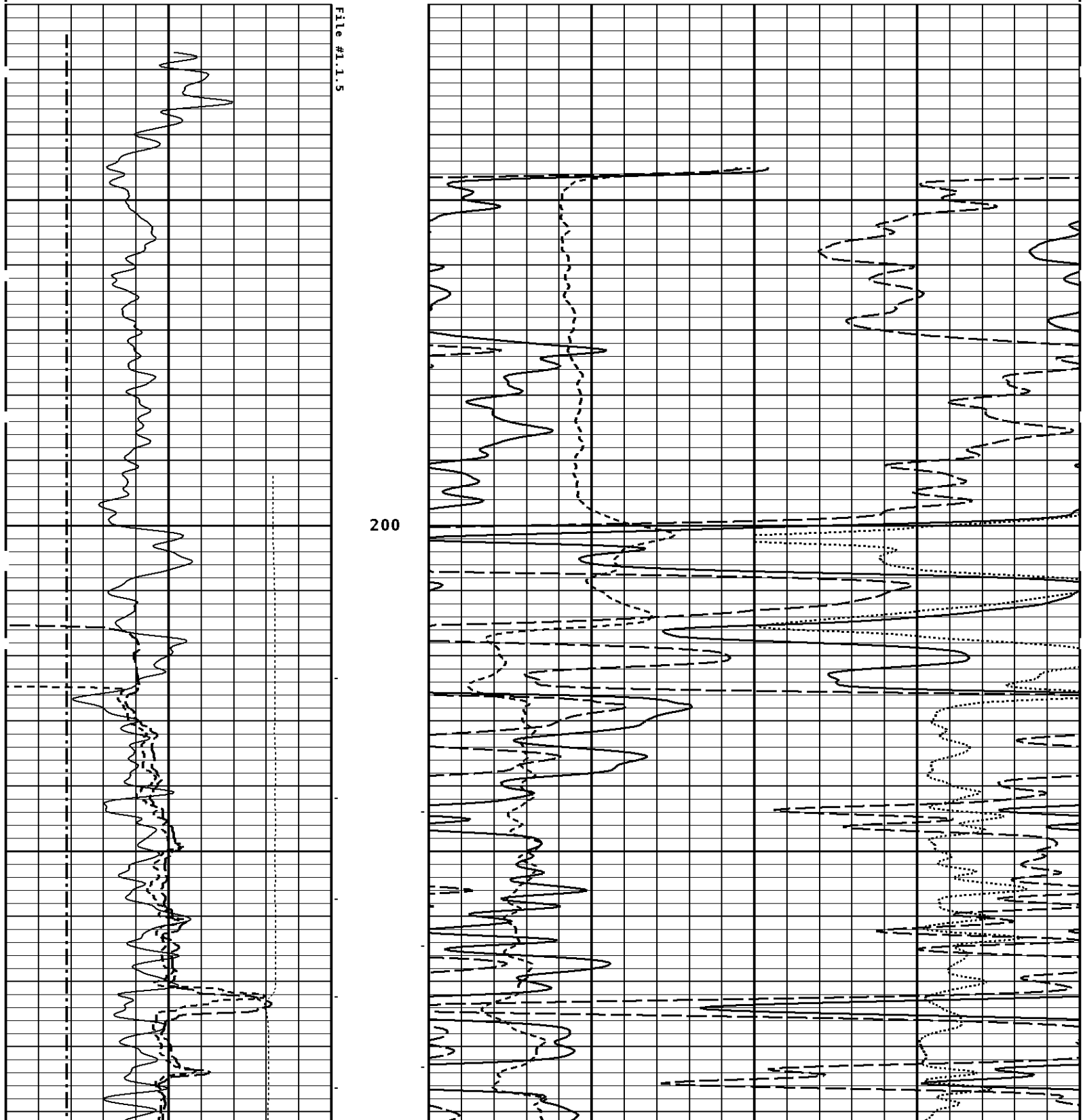
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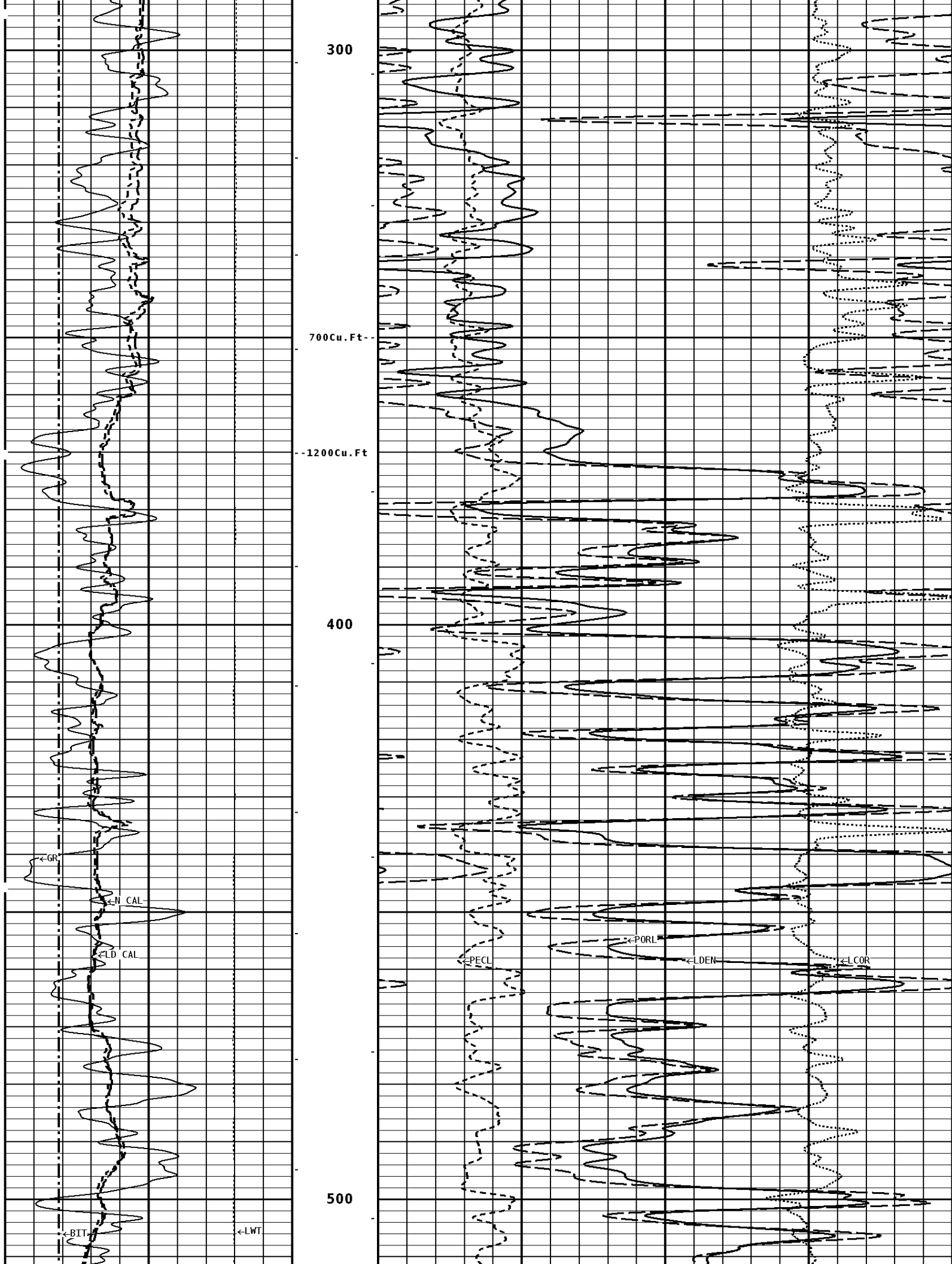
TENSION LBS 10000 0					
BIT SIZE INCHES (IN) 6 16					
DENSITY (X) CALIPER INCHES (IN) 16 26 6 16		PE CROSS-SECTION BARNs/ELECTRON 0 10 -0.25 0.25		DENSITY CORRECTION G/CC	
NEUTRON (Y) CALIPER INCHES (IN)		DENSITY POROSITY PERCENT (2.71 g/cc)			

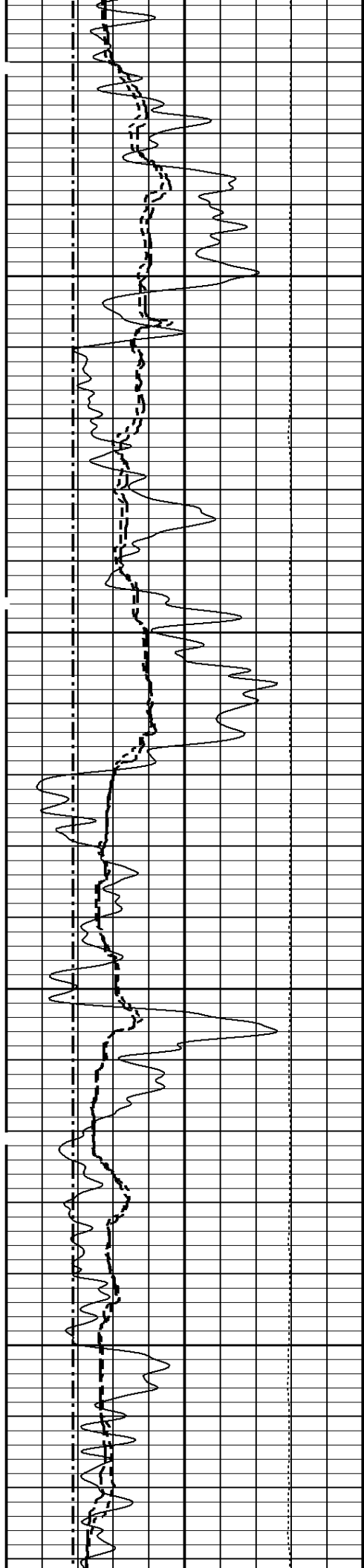
16	26	70	30
6	16	30	-10
		-10	-50
GAMMA RAY API UNITS 1500 300150		COMPENSATED BULK DENSITY G/CC 3.0 2.0 1.0 4.0 3.0 2.0	
- BHV AHV - CU. FT			

1:240 MAIN SECTION

BULK DENSITY





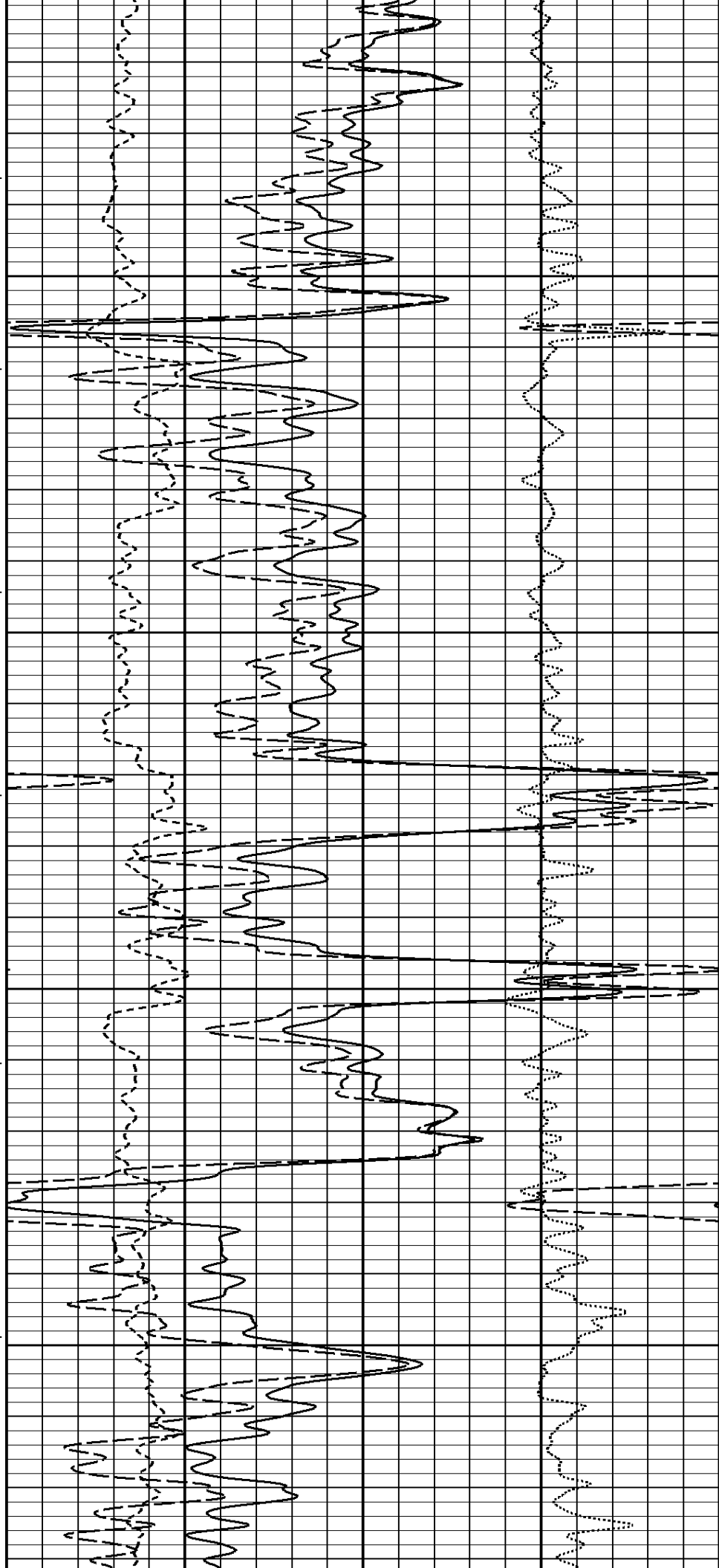


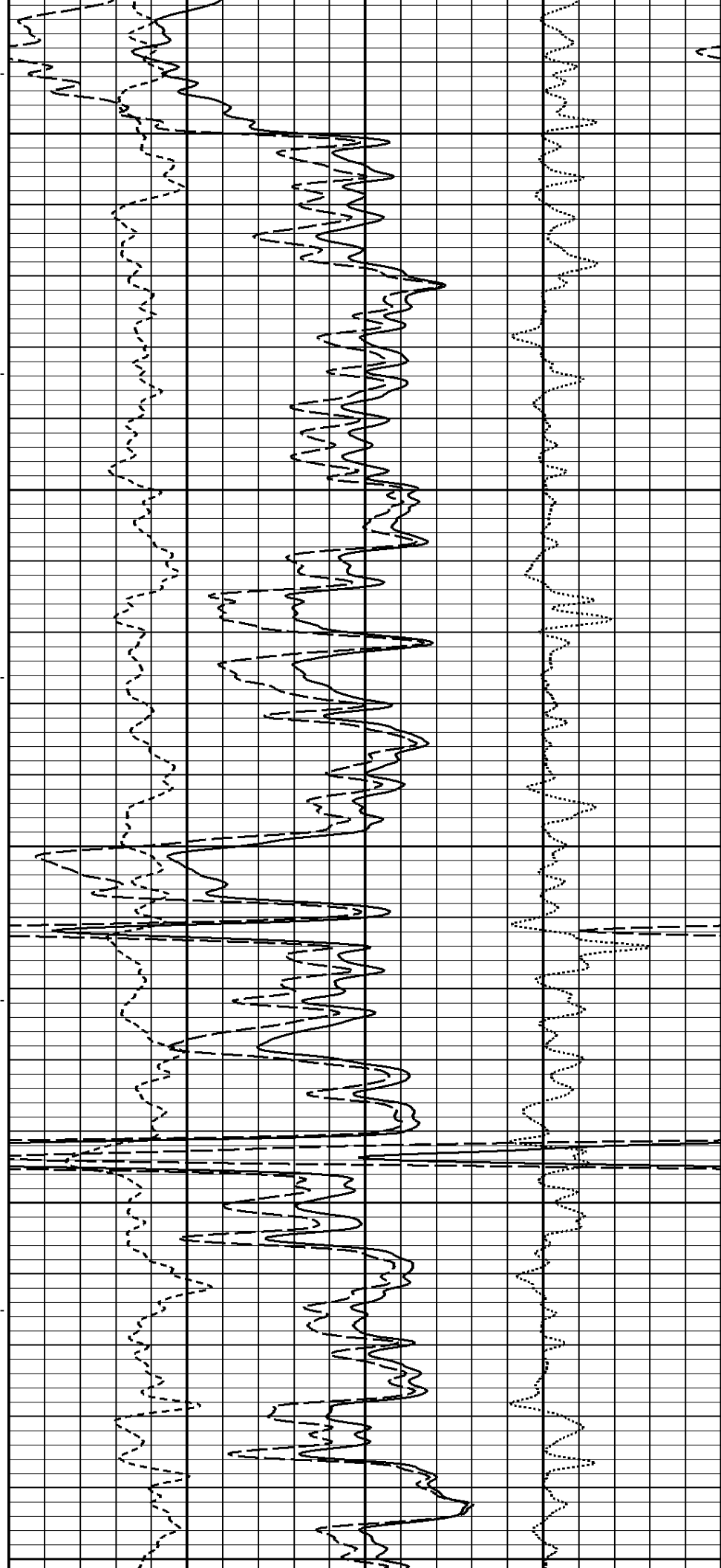
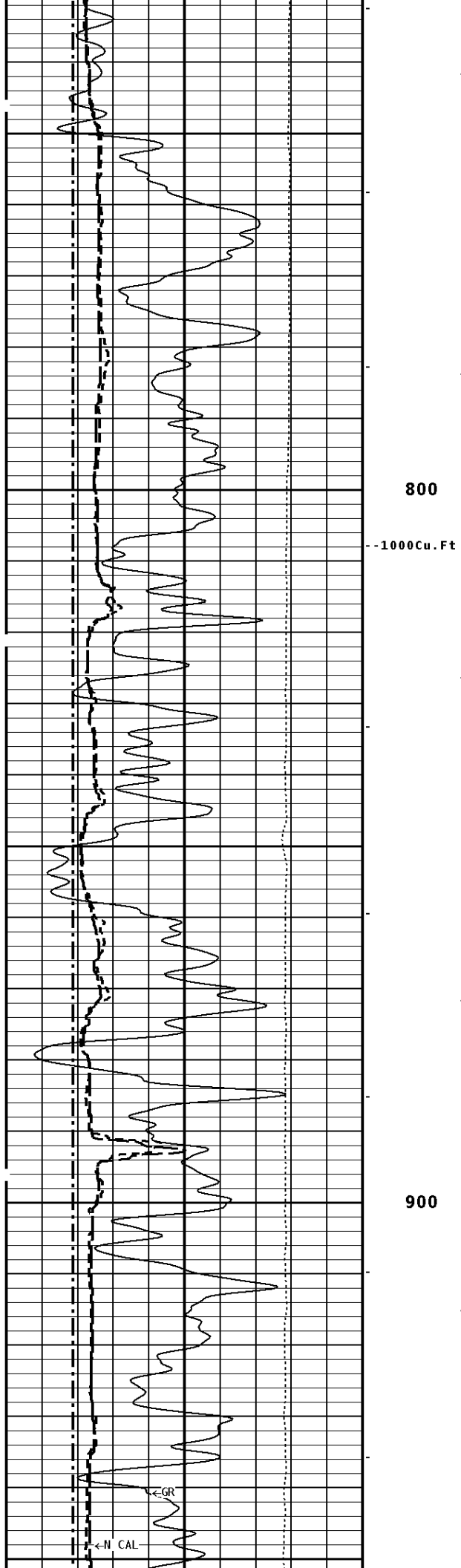
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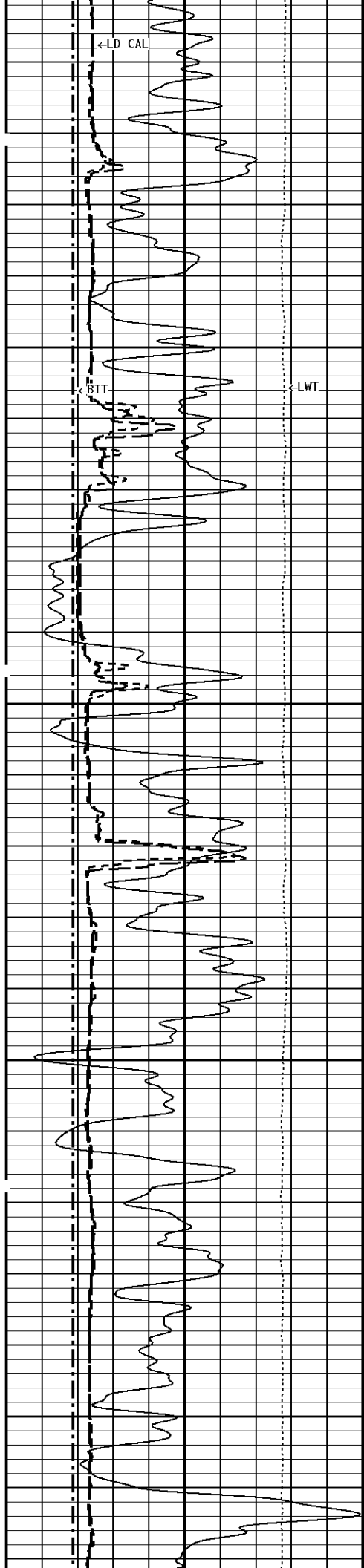
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600Cu.Ft--

700





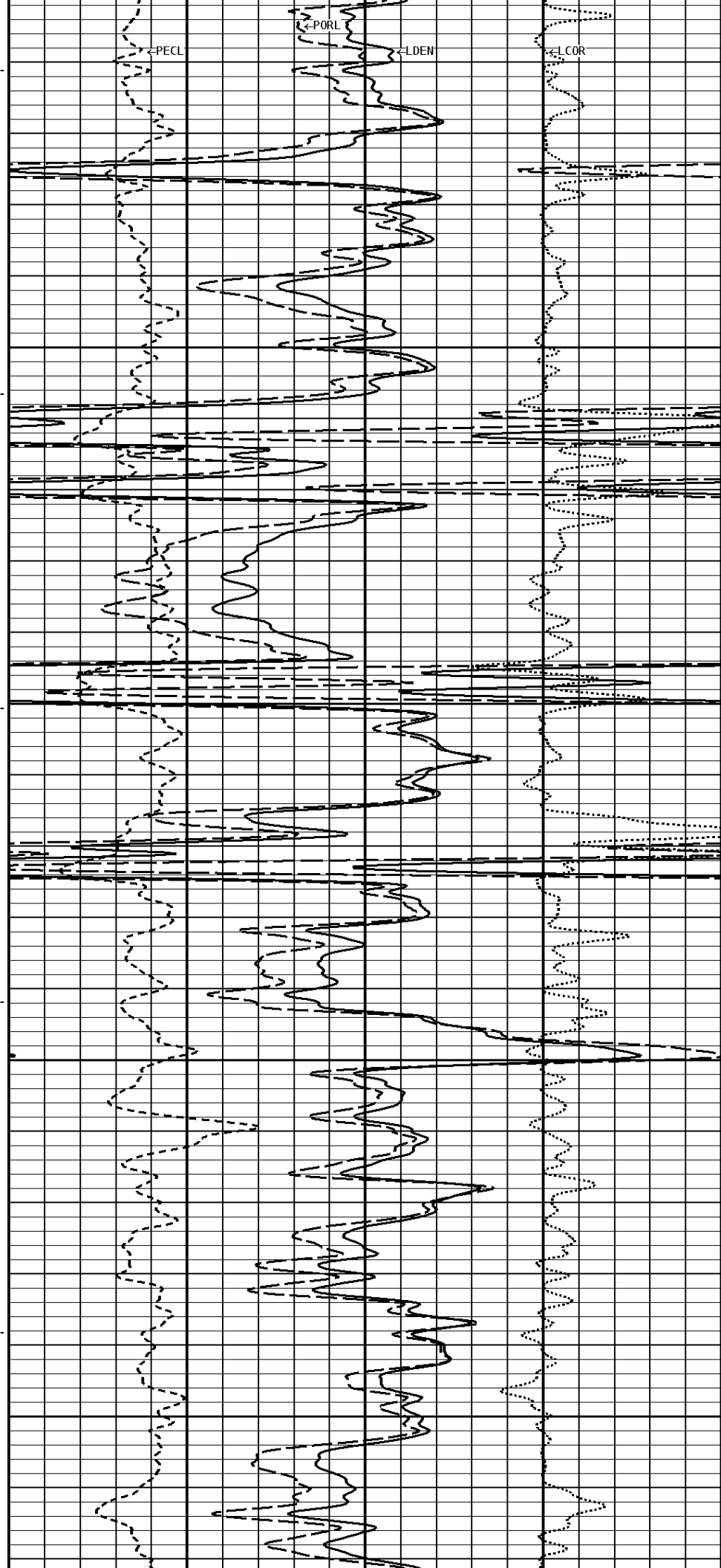


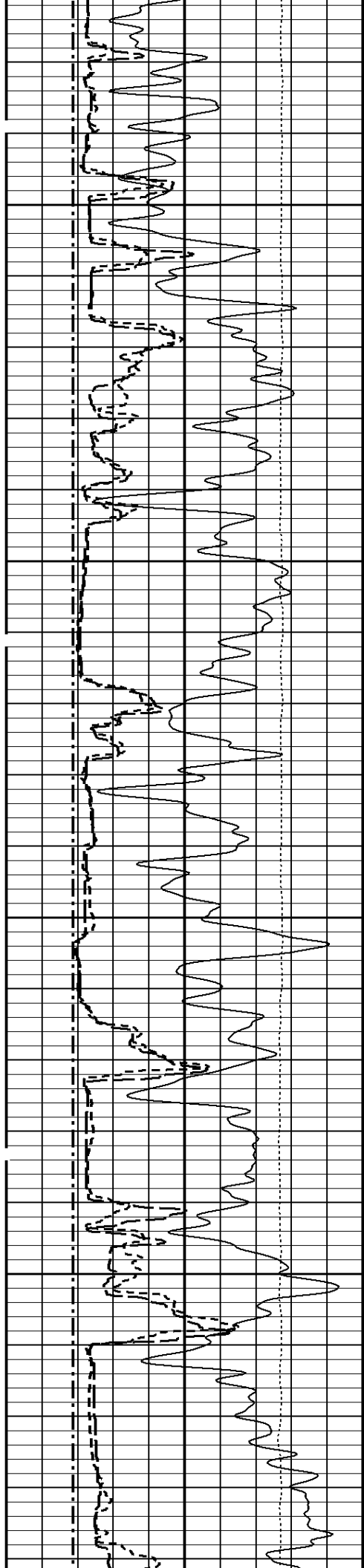
1000

--900Cu.Ft

500Cu.Ft--

1100

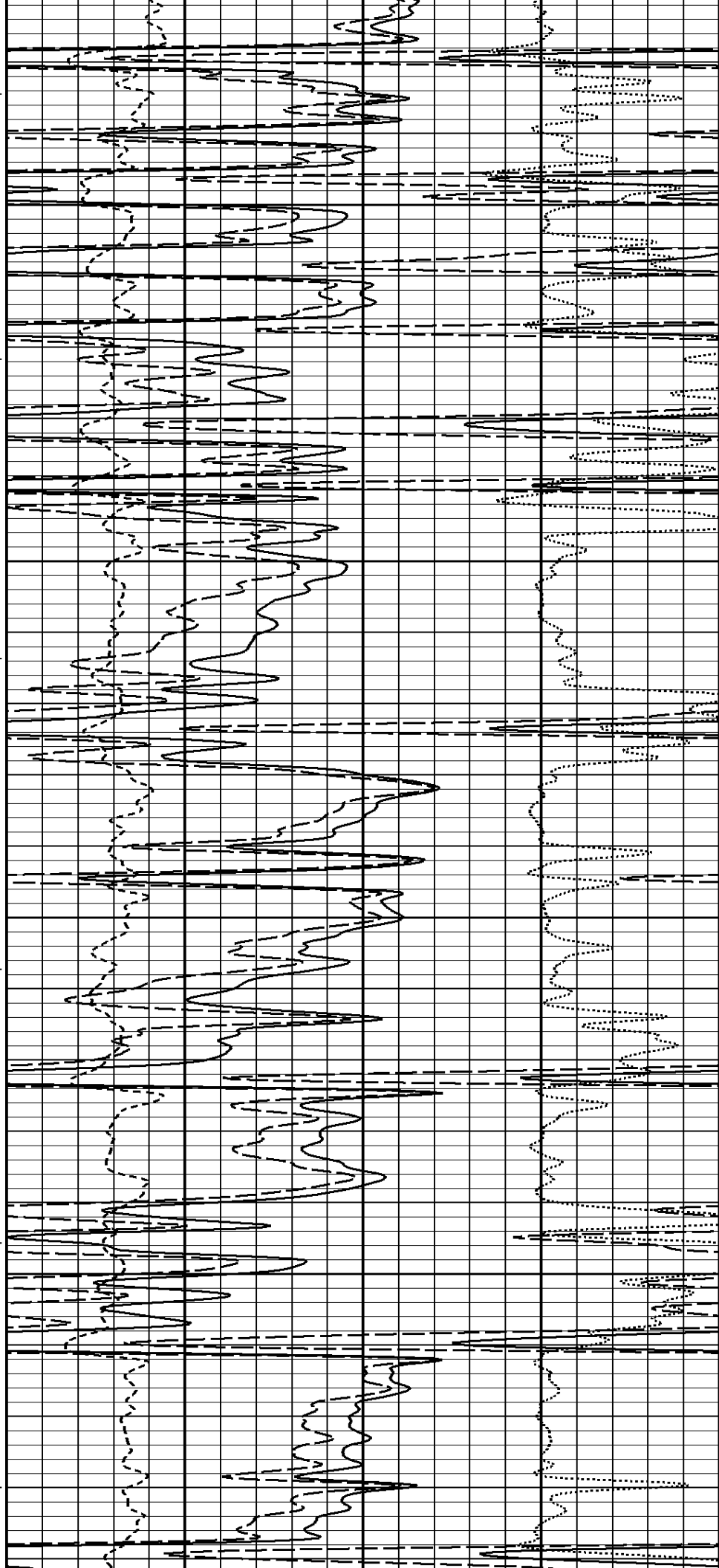


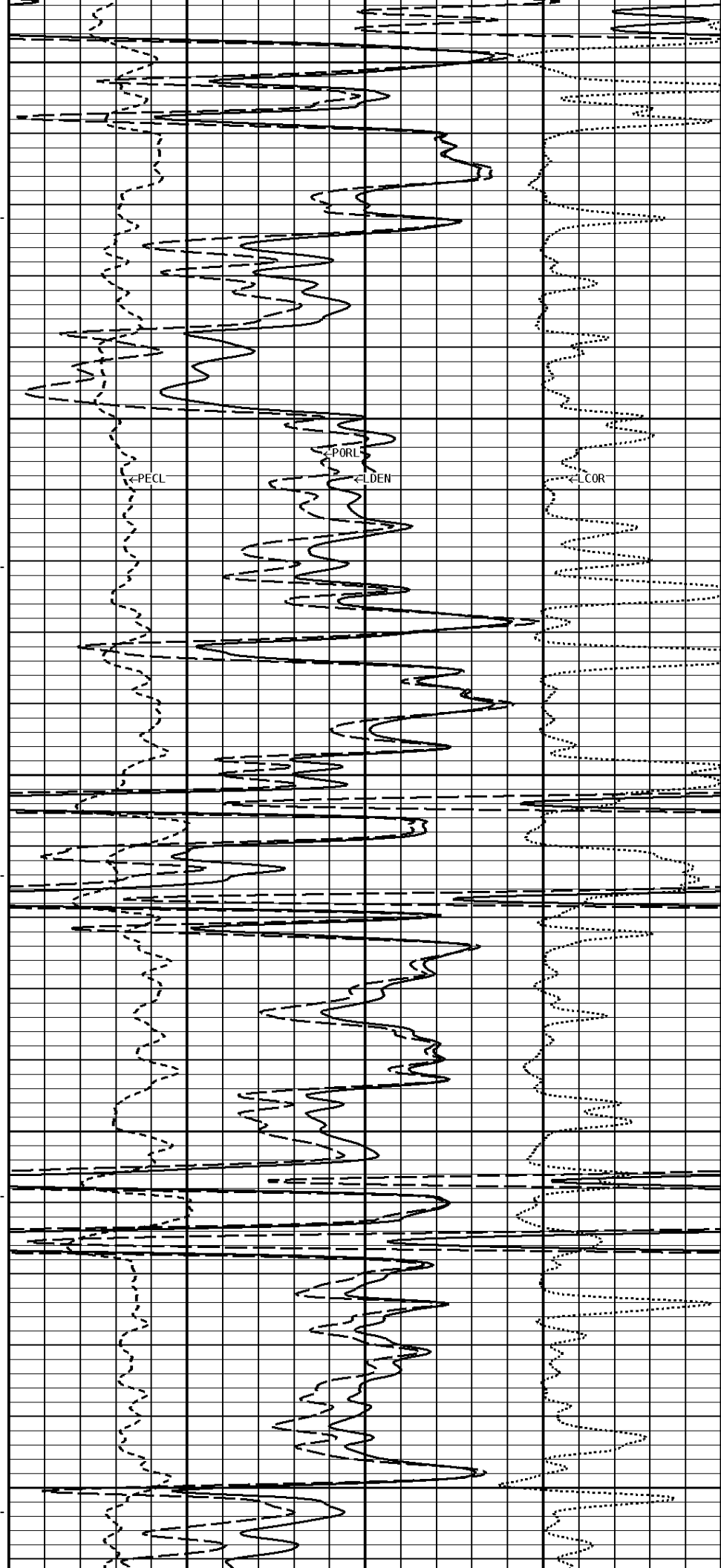
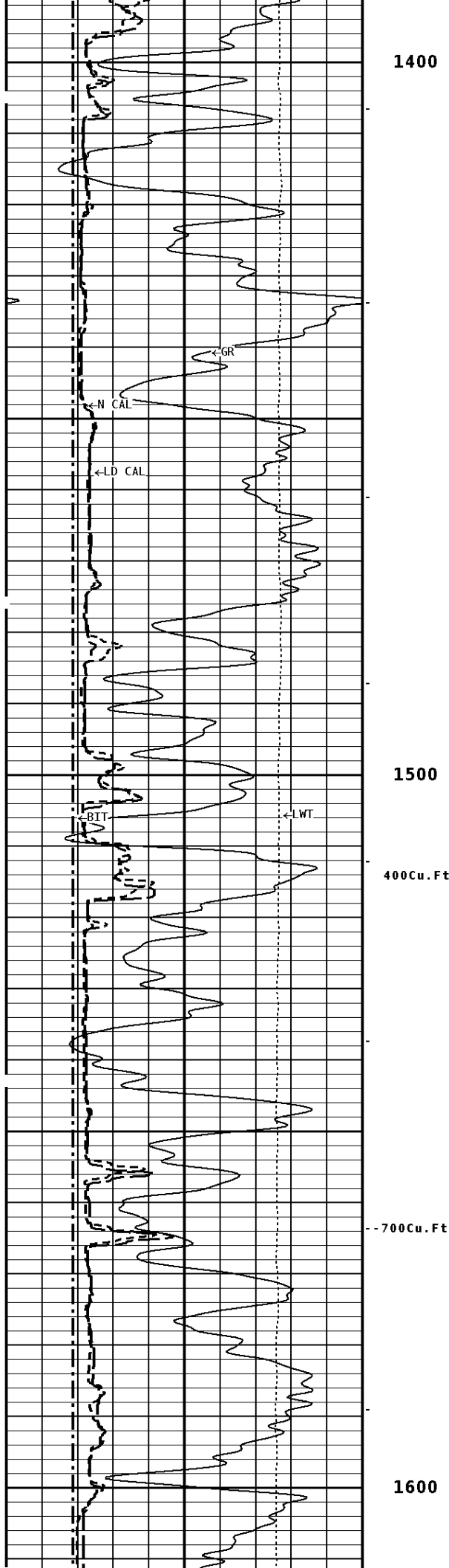


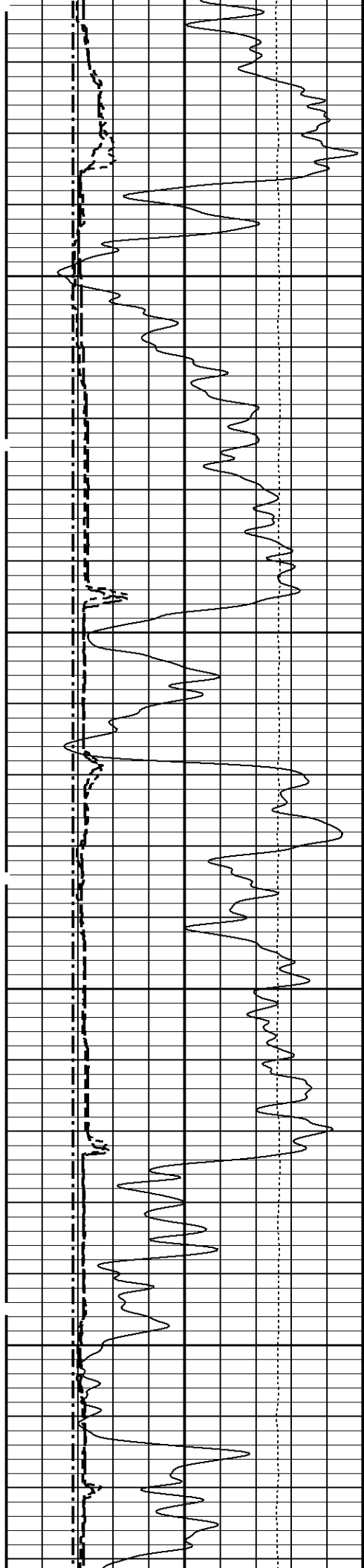
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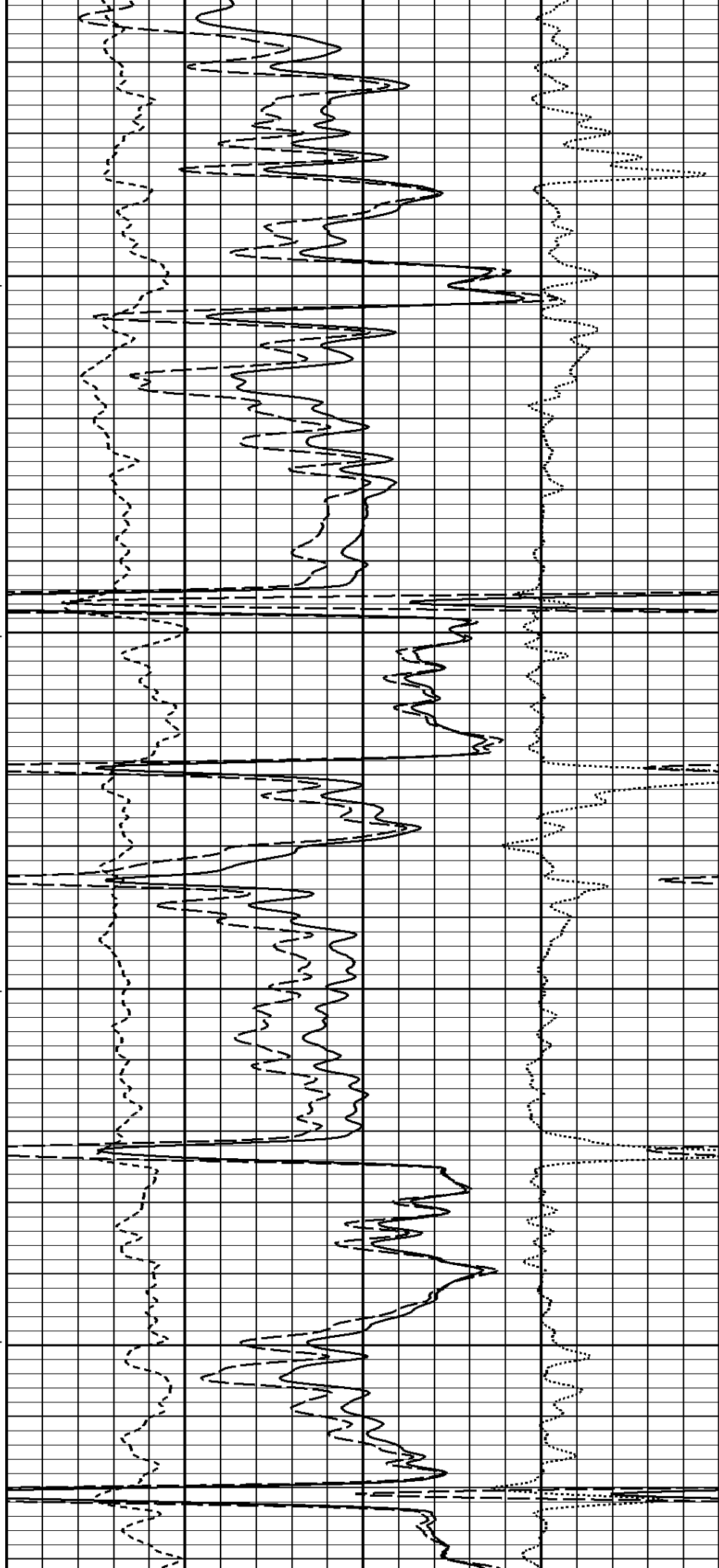
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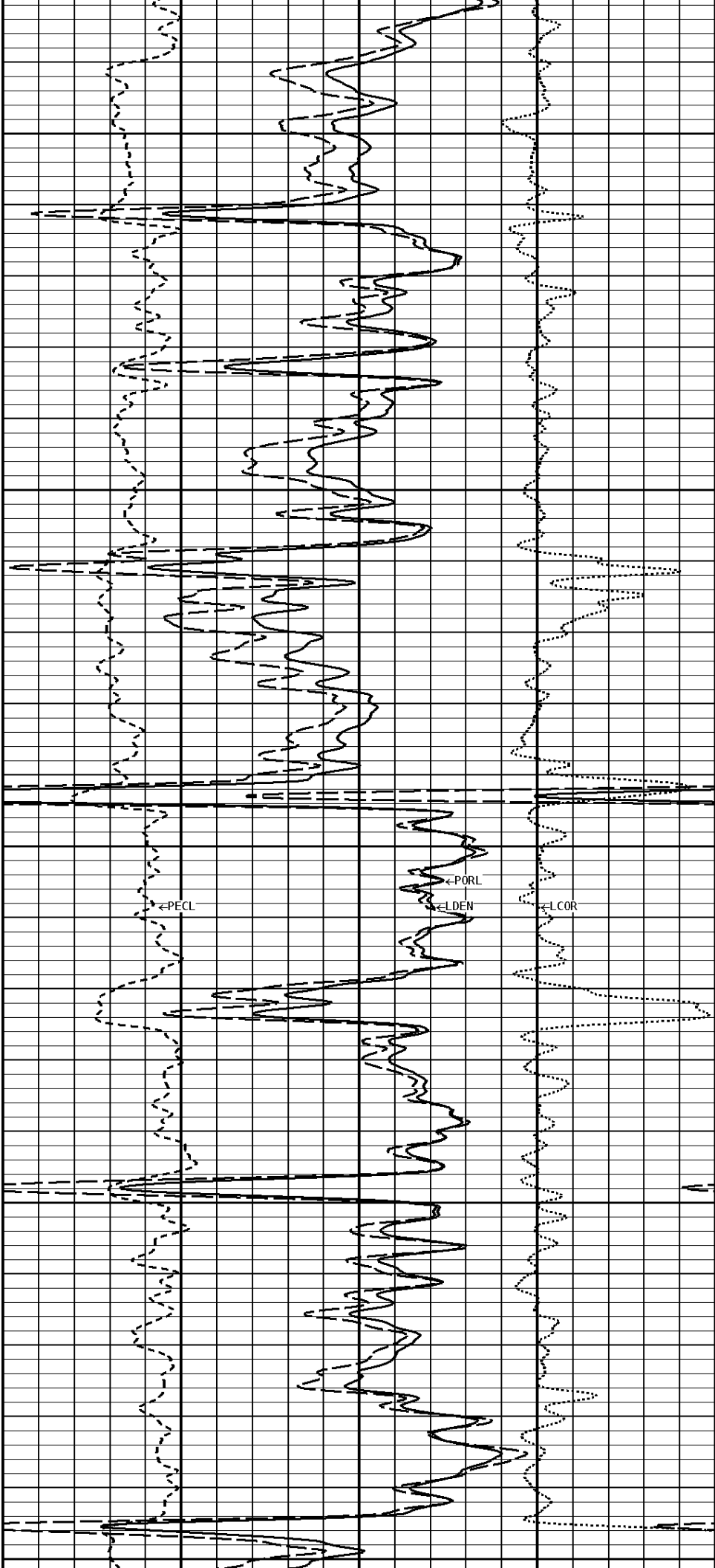
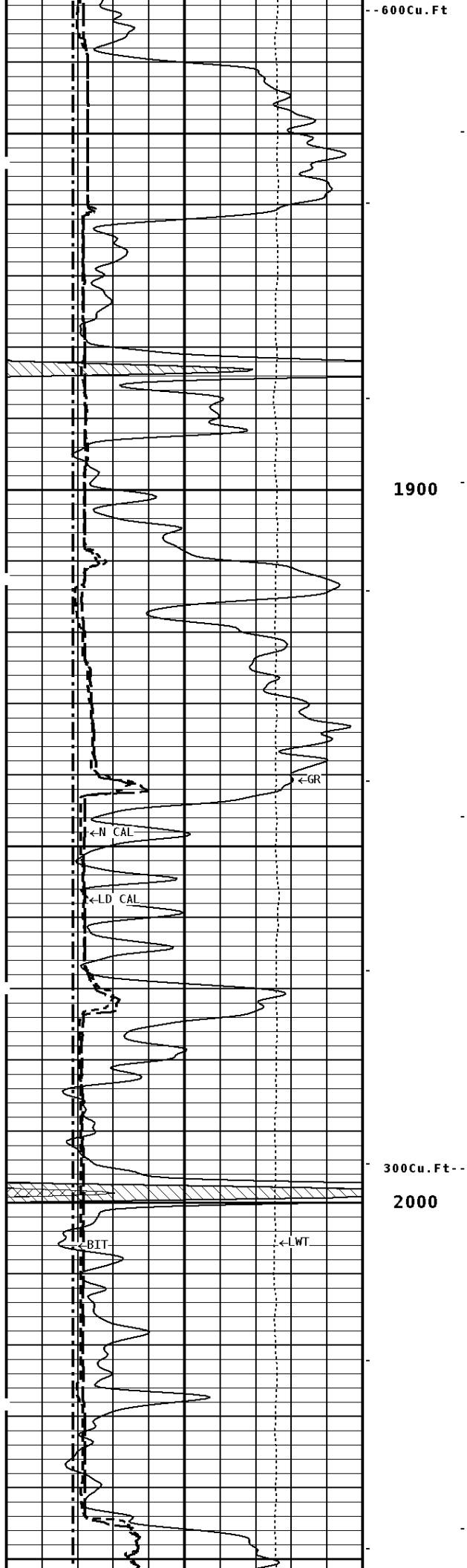


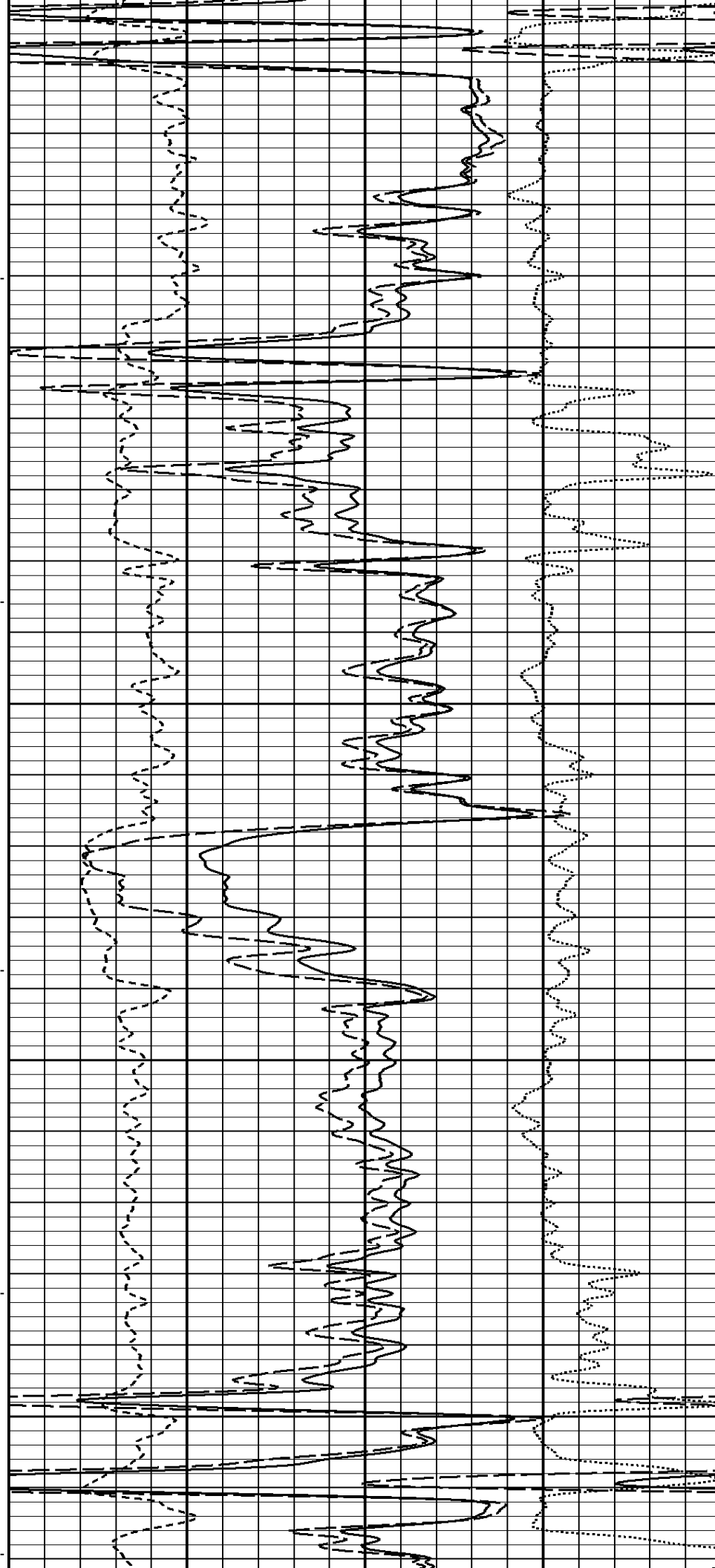
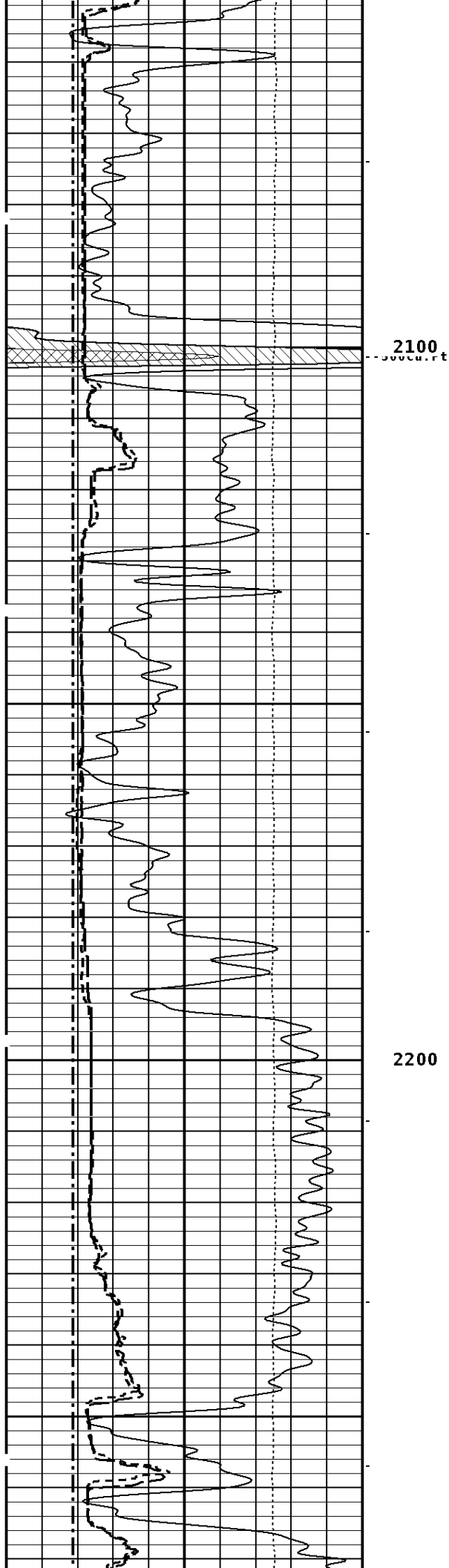


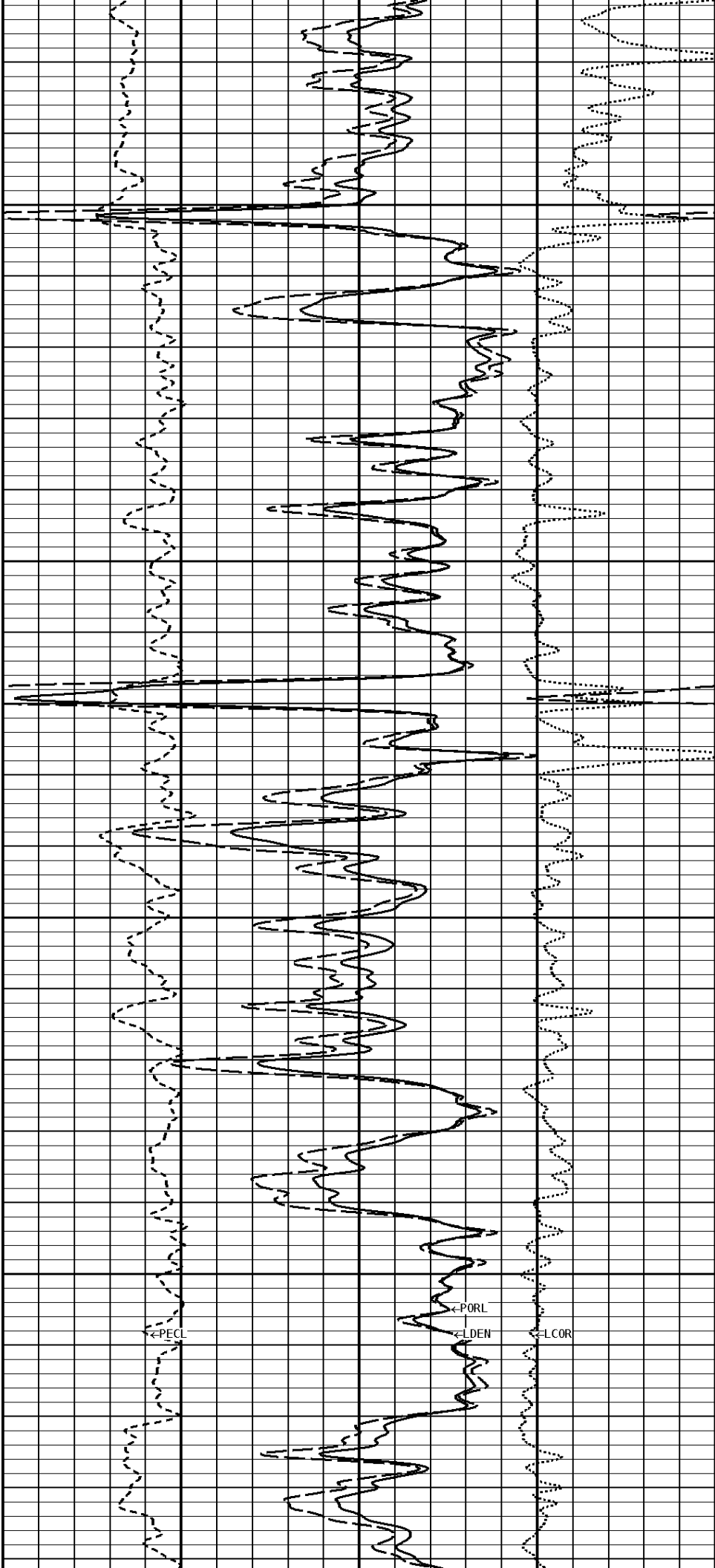
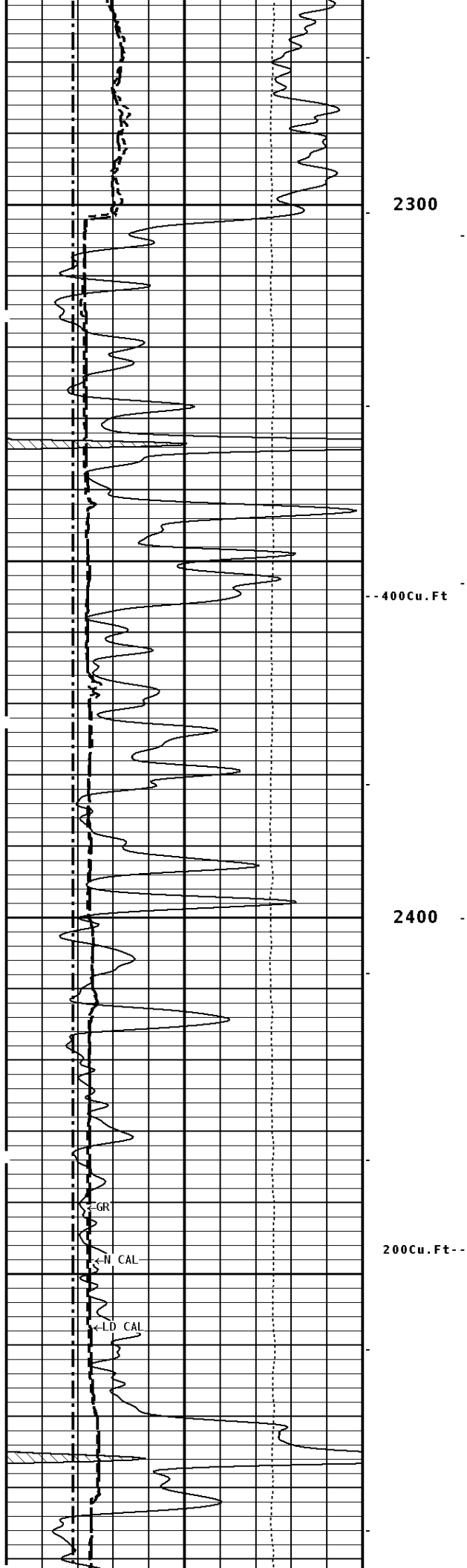
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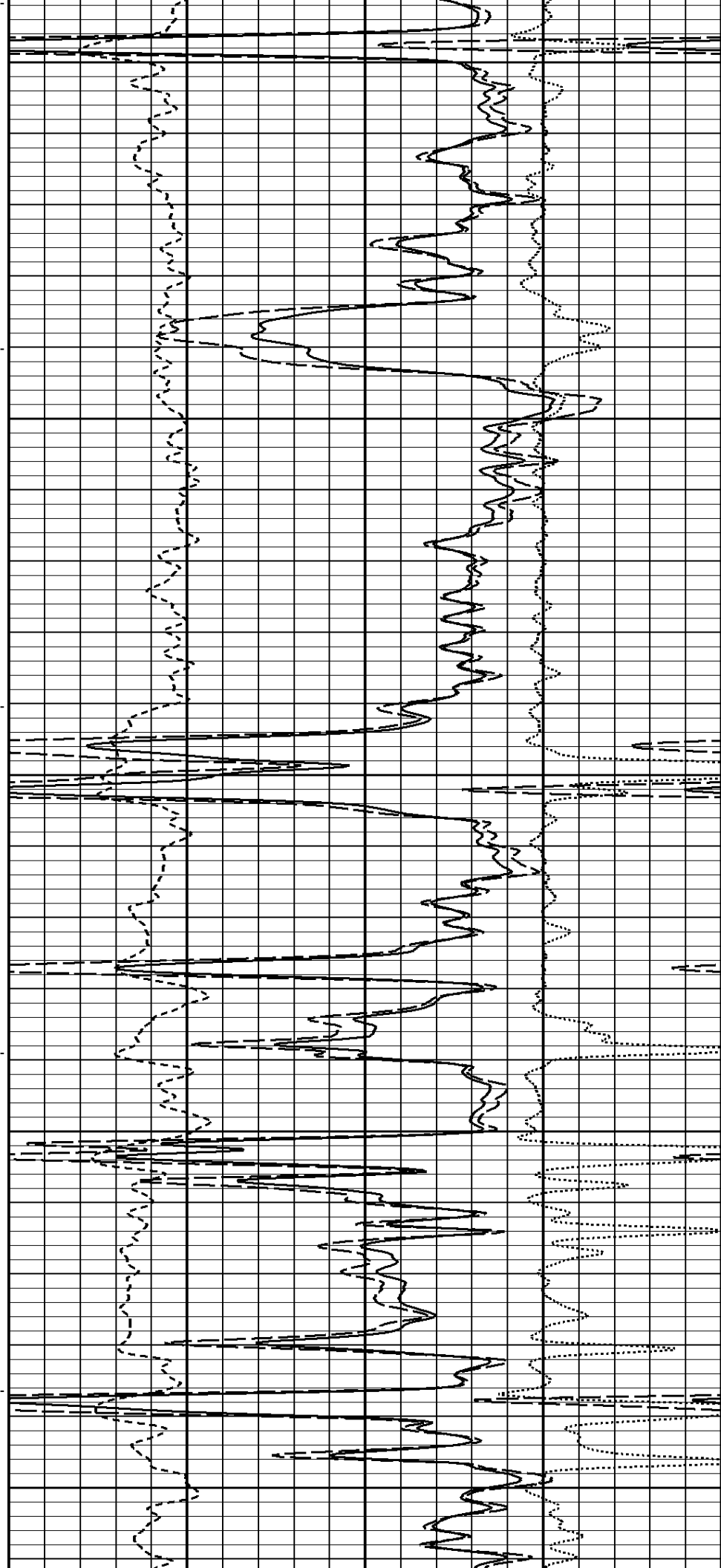
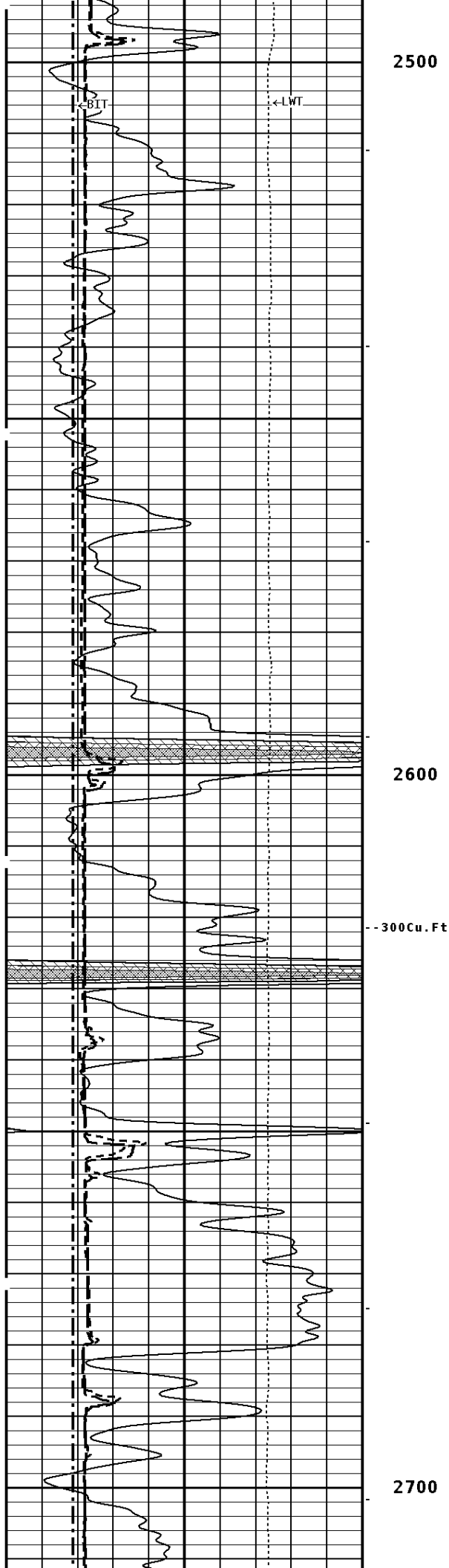


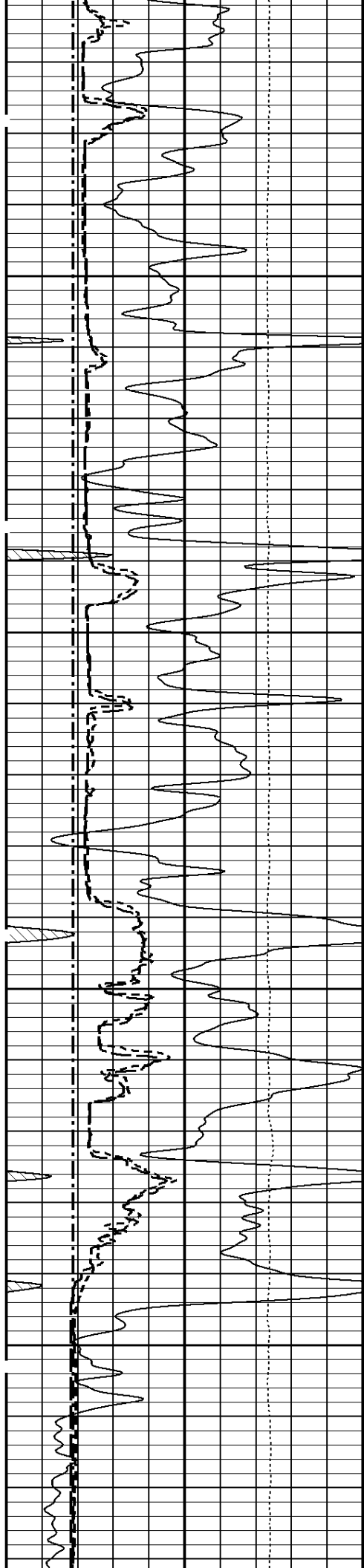
1800







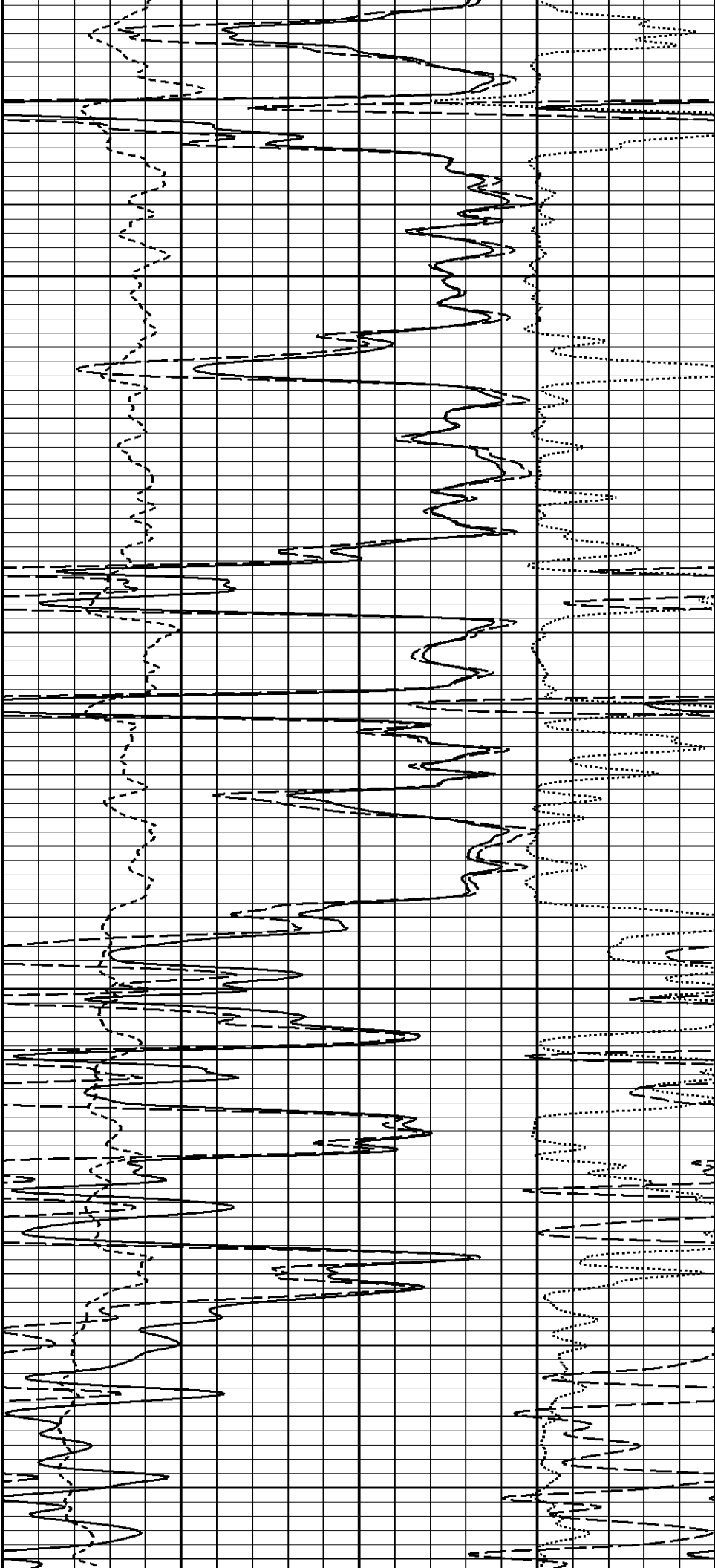


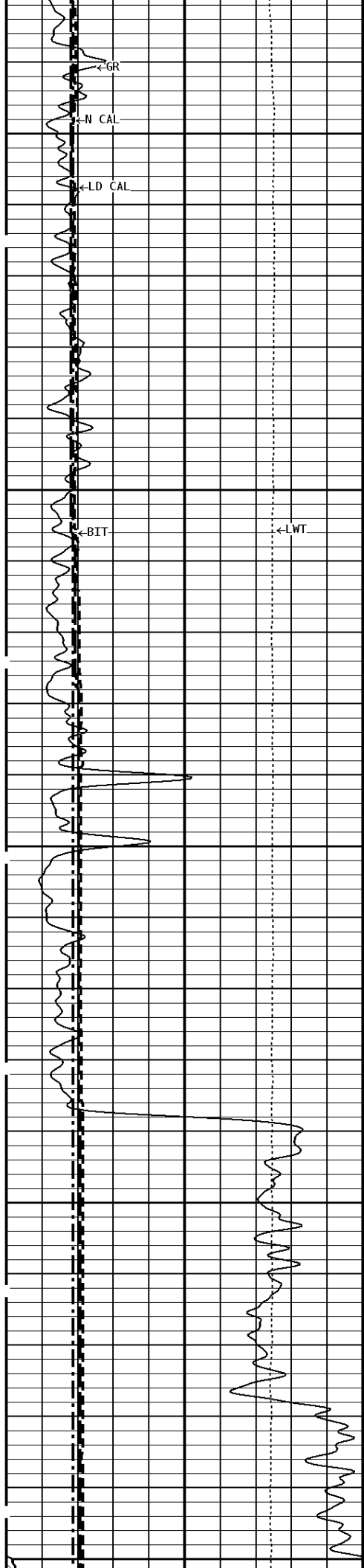


2800

--200Cu.Ft

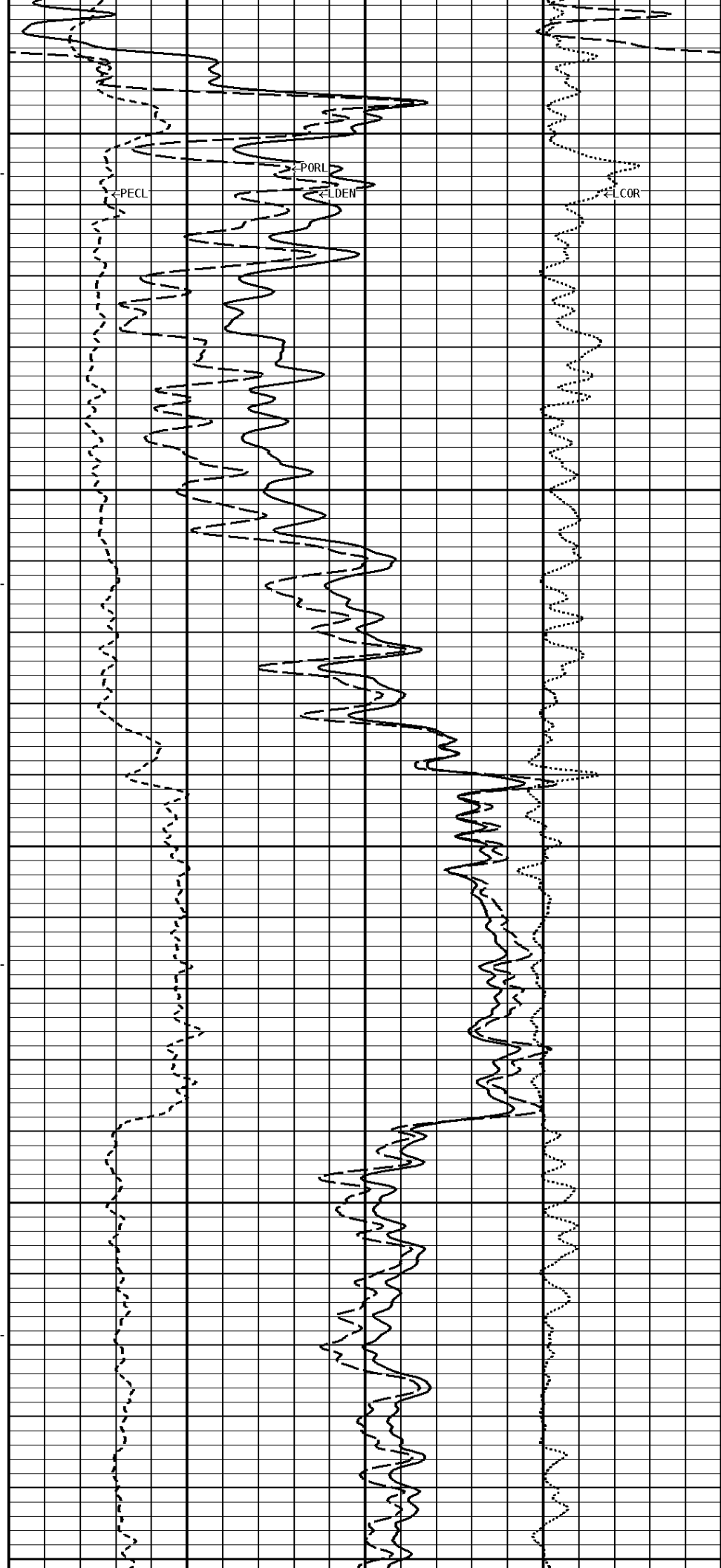
100Cu.Ft--
2900

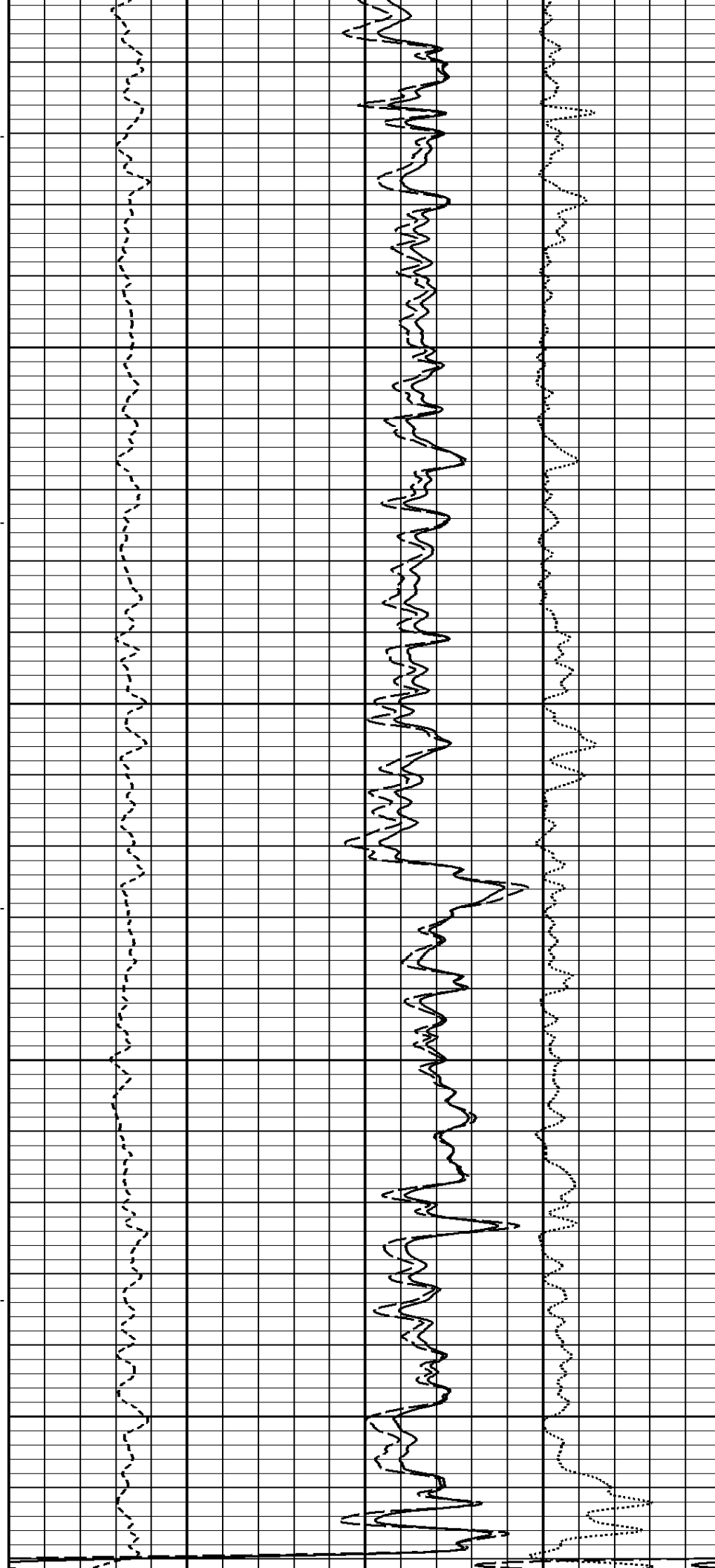
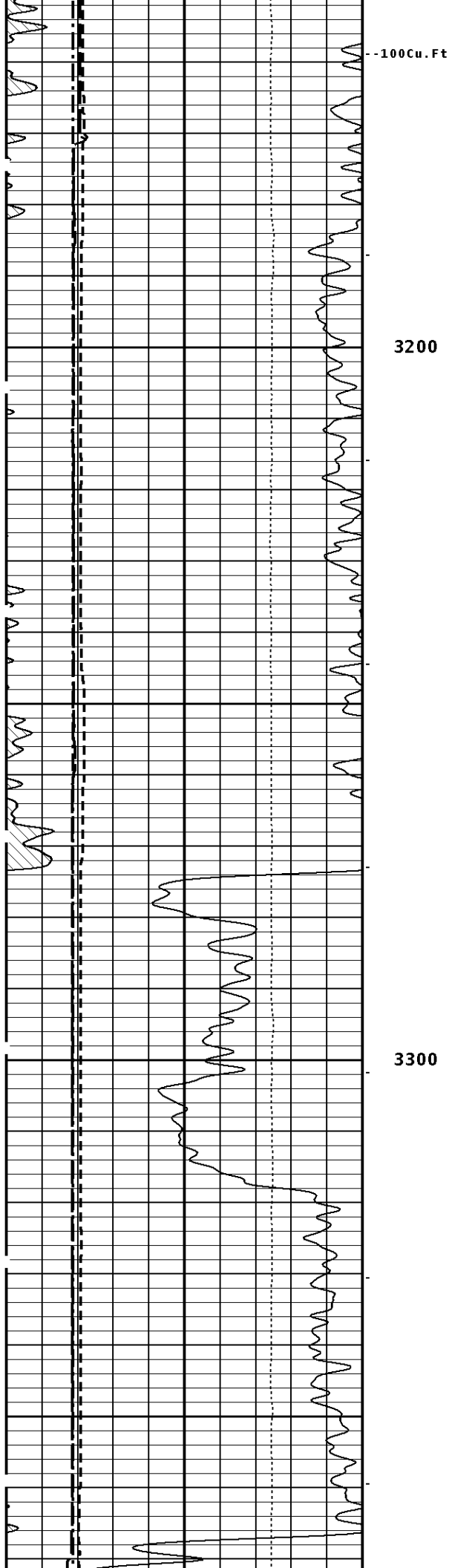


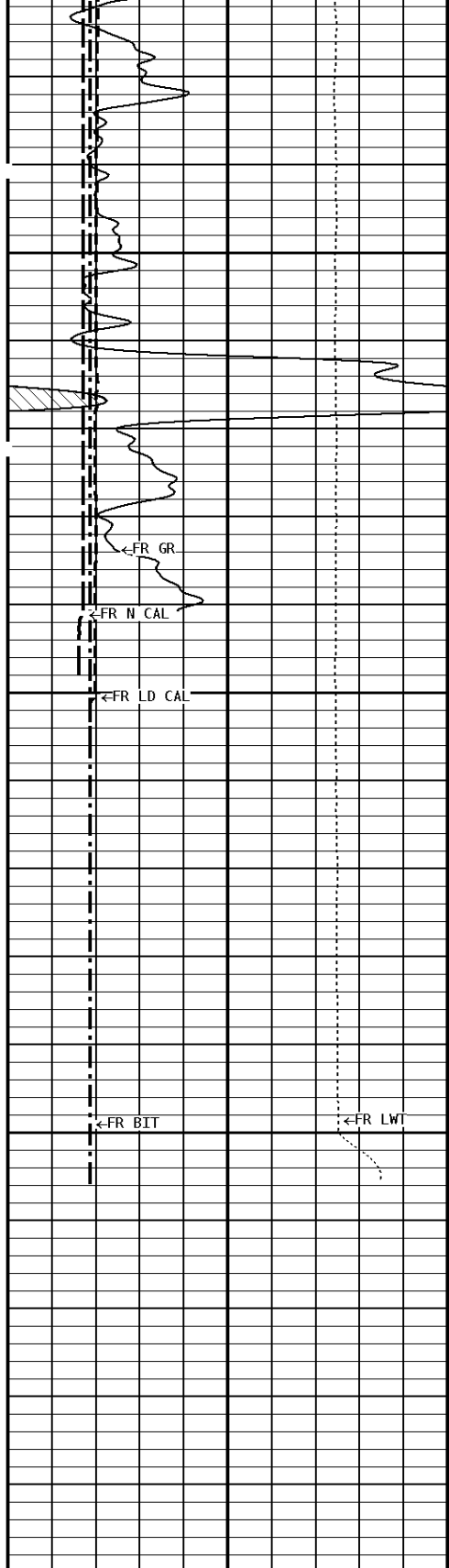


3000

3100



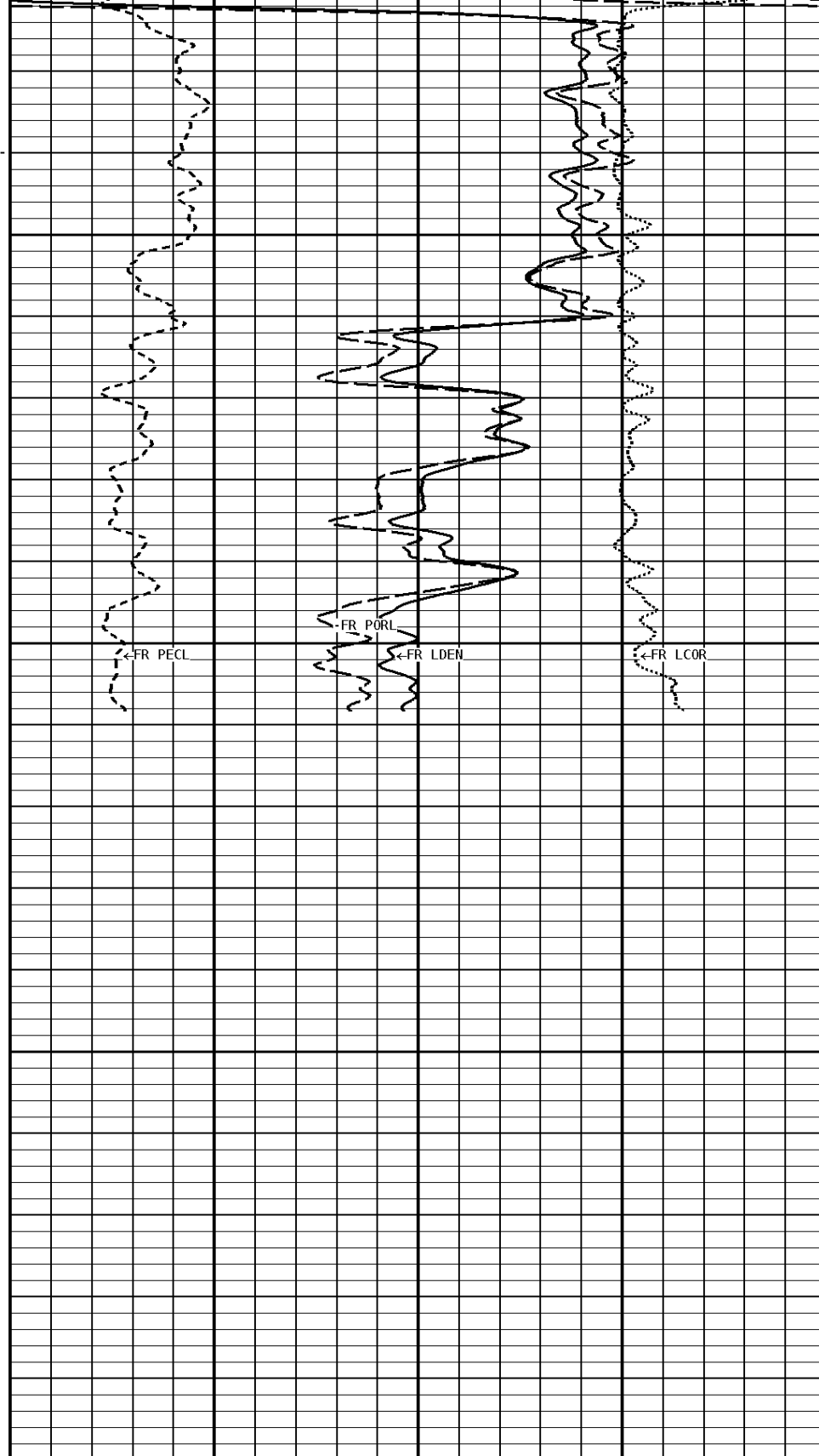




3400

3499

File #1.1.5



1:240 MAIN SECTION BULK DENSITY

GAMMA RAY API UNITS 150 0 300 150	- BHV AHV - CU. FT	COMPENSATED BULK DENSITY G/CC 3.0 4.0 2.0 3.0 1.0 2.0
NEUTRON (Y) CALIPER		DENSITY POROSITY

INCHES (IN)	
16	26
6	16
DENSITY (X) CALIPER INCHES (IN)	
16	26
6	16
BIT SIZE INCHES (IN)	
6	16
TENSION LBS	
10000	0

PERCENT (2.71 g/cc)	
70	30
30	-10
-10	-50
PE CROSS-SECTION BARNs/ELECTRON	
DENSITY CORRECTION G/CC	
0	10
-0.25	0.25

*** 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 Correction (PHI N)	Disable		

*** Calibration Summary ***

Shop Calibration GRT-B					
Performed : 15-MAY-2011			Time : 08:17		
Sensor Suite : GR-GR5			ID : GRT-BA-121		
	Measured	Units	Calibrated	Units	
	Background	Jig	Jig		
GR	50	360	175	GRAP1	
Shop Calibration CNT-AA					
Performed : 00-XXX-0000			Time : 00:00		
Sensor Suite : CALI-BCN			ID : NDT-CB-152		
	Jig - Measured		Jig - Calibrated	Units	
	Ring#1	Ring#2	Ring#1	Ring#2	
CL # 1	7.8	13.9	6.0	12.0	IN.
Shop Calibration LDT-DA					
Performed : 15-Apr-2011			Time : 11:02		
Sensor Suite : BHC NEUT			ID : CNP-AA-111		
Source ID : N-1044					
	Tank		Verification	Units	
	Measured	Calibrated	Jig		
N/F	3.6545	3.6893	3.6824		
Porosity	20.0	20.5	20.4	%	
Shop Calibration LDT-DA					
Performed : 15-MAY-2011			Time : 08:26		
Sensor Suite : CALI-LTH			ID : PDT-GA-465		
	Jig - Measured		Jig - Calibrated	Units	
	Ring#1	Ring#2	Ring#1	Ring#2	
CL # 1	5.4	11.4	6.0	12.0	IN.
Shop Calibration LDP-DA					
Performed : 22-Apr-2011			Time : 10:29		
Sensor Suite : BHCPELNG			ID : LDP-DA-065		
Source ID : CSV-587					
	Short Space				
	BKGD	Al	Mg	Al+Fe	Units
LSW1	71	486	788	331	CPS
LSW2	77	585	930	432	CPS
LSW3	282	1412	2205	1214	CPS
LSW4	344	1308	1812	1172	CPS

LSW5	31	40	41	39	CPS
LSW6	92	96	94	94	CPS
LSW7	58	60	60	59	CPS
LSW8	2	2	3	2	CPS
QS	0.223	0.236	0.225	0.228	
PES			2.778	5.967	
SSDN		2.600	1.680		G/CC
Long Space					
	BKGD	Al	Mg	Al+Fe	Units
LLW1	100	562	2297	363	CPS
LLW2	111	939	3825	692	CPS
LLW3	422	1868	6837	1633	CPS
LLW4	551	1115	2889	1042	CPS
LLW5	61	66	79	65	CPS
LLW6	168	171	165	171	CPS
LLW7	112	111	111	110	CPS
LLW8	4	6	11	5	CPS
QL	0.202	0.214	0.198	0.216	
PEL			2.697	5.458	
LSDN		2.600	1.680		G/CC

**Shop Calibration
MST-DA**

Performed : 15-MAY-2011 Time : 08:20
Sensor Suite : CALI-MSN ID : MST-NG-26

		Jig - Measured		Jig - Calibrated		Units
		Ring#1	Ring#2	Ring#1	Ring#2	
CL # 1		6.3	12.3	6.0	12.0	IN.

Performed : 01-MAY-2007 Time : 10:03
Sensor Suite : MSTDA-NI ID : MST-NG-26

		Internal				
		Measured		Calibrated		
	Zero	Reference	Units	Zero	Reference	Units
INV-V	150.0	30325.6		0.00	1546.00	MV
NOR-V	150.0	30476.3		0.00	1585.00	MV
IN-C	150.0	60152.2		0.00	15.46	UA
INV-R					32.34	OHMM
NOR-R					55.11	OHMM

Performed : 00-XXX-0000 Time : 00:00
Sensor Suite : MSTDAMSF ID : MST-NG-26

		Internal				
		Measured		Calibrated		
	Zero	Reference	Units	Zero	Reference	Units
MSFC	150.0	58600.0		0.00	1522.00	UA
MSFB	32800.0	62500.0		0.00	1522.00	MA
MOM1	150.0	5950.0		0.00	1522.00	MV
MSFRA					43.30	OHMM