

Tucker
WIRELINE SERVICES

COMPENSATED NEUTRON
PEL DENSITY MICRO LOG

Company AMERICAN ENERGIES CORP Well ADE #1-6 Field WILDCAT County MARION State KANSAS Country USA API No. 15-115-21422		File No : 55600 Company : AMERICAN ENERGIES CORPORATION Well : ADE #1-6 Field : WILDCAT County : MARION State : KANSAS Country : USA API No : 15-115-21422	
Permanent Datum: GL Drilling Measured From: KB Log Measured From: KB Above Permanent Datum: 9.00 Ft		Location: 1650' FSL & 1650' FEL SE NW SE	
Date : May 20 2011		Sect : 6 Twp : 19S Rge : 1E	
Run Number	1	Elevations:	Services:
Depth--Driller	2959.0 Ft	KB 1560.00 Ft	GRT MLT
Depth--Logger	2961.0 Ft	DF 1559.00 Ft	CNT CST
First Reading	2925.0 Ft	GL 1551.00 Ft	LDT PTT
Last Reading	1900.0 Ft		
Casing--Driller	222.0 Ft		
Casing--Logger	222.0 Ft		
Bit Size	7.875 In		
Casing Size	8.625 In		
Hole Fluid Type	WBM		
Density	8.5 LBS/GAL		
Fluid Loss	0.0 CC		
PH/Viscosity	0.0	50.0 SEC	
Sample Source	MEASURED		
RMF@Measured Temp.	1.000 @ 45 F		
RMF@Measured Temp	0.850 @ 45 F		
RMC@Measured Temp.	1.150 @ 45 F		
Source RMF/RMC	CALCULATED/CALCULATED		
RM@BHT	0.000 @ 80 F		
Time Circulation Stopped			
Max Recorded Temp.	80	F	
Equipment/Base	TRK123	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	2959.00	8.625	24.00	222.00

Run Number	1		
Date	May 20 2011		
Date/Time On Bottom			
Depth to Fluid	0.0 Ft		
Salinity	0.000 PPM		
RMF@BHT	0.000 @ 80 F		
RMC@BHT	0.000 @ 80 F		

Comments

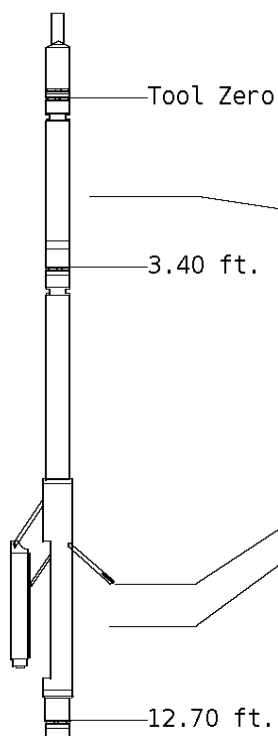
ALL PRESENTATIONS AS PER CUSTOMER REQUEST
 GRT, CNT, LDT, MLT, CST, AND PIT RUN IN COMBINATION.
 CALIPERS ORIENTED ON X-Y AXIS.
 2.71 G/CC USED TO CALCULATED POROSITY.
 ANNULAR HOLE VOLUME CALCULATED UISING 5.50" PRODUCTION CASING.
 DETAIL PRESENTED FROM TD 2700' AS PER CUSTOMER REQUEST.

GRT: GRP.
 CNT: PHIN, CLCNIN.
 LDT: PORL, LCORN, PECLN, LDENN, PORLLS, CLLDIN.
 MLT: NOR_R, INV_R, MSCLPIN.
 CST: PORS, ITT, CDTF, TT1, TT2, TT3, TT4.
 PIT: ILD, ILM, SPU, SFLAEC.

OPERATORS:
 M. GARNER
 S. DAVIS

Tool String Schematic

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



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

Gamma Ray Controller

Sonde ID :GRT-BA-15

Measure Point	Tool Offset	Stack Offset	Bottom Offset
GRP	2.00	2.00	64.95

Tool: CNT-AA **Length:** 9.30 ft. **O.D.** 4.36 in.

Compensated Neutron A Pad on NDT-A

Sonde ID :NDT-AC-027

Source ID :N-1046

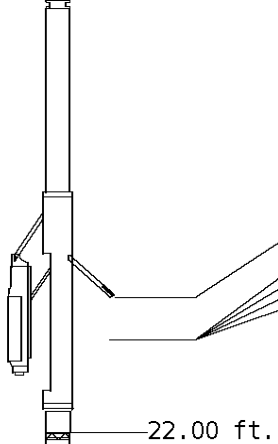
Pad ID :CNP-AA-112

Measure Point	Tool Offset	Stack Offset	Bottom Offset
CLCN	6.00	9.40	57.55
PHIN	6.80	10.20	56.75

Tool: LDT-DA **Length:** 9.30 ft. **O.D.** 4.80 in.

Litho Density D Pad on NDT-A
Sonde ID :PDT-GA-472
Source ID :2991GW
Pad ID :LDP-DA-067

Measure Point	Tool Offset	Stack Offset	Bottom Offset
CLLD	6.00	18.70	48.25
PEL	7.00	19.70	47.25
PES	7.40	20.10	46.85
LDEN	7.20	19.90	47.05
LCOR	7.20	19.90	47.05

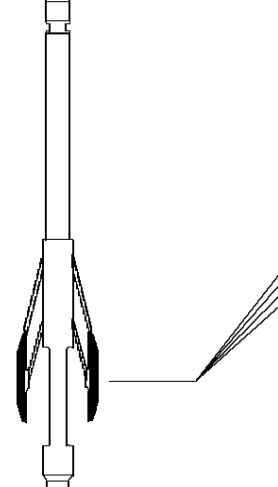


22.00 ft.

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

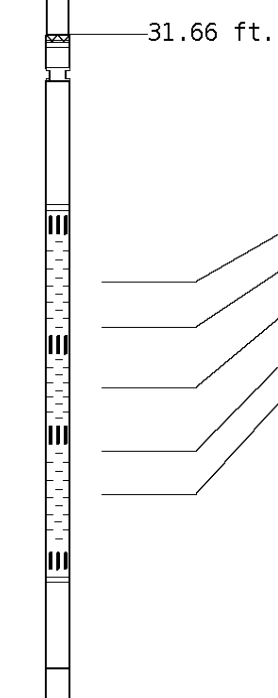


31.66 ft.

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

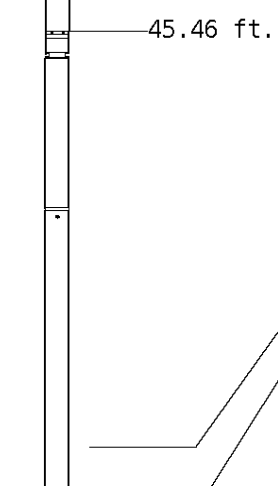


45.46 ft.

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

Sonde ID :PIT-CA-069

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: 123 AMER ADE 1-6 MAY 20 QUINT

Scale: 1:240

Segment: V1.D4.S1 MN

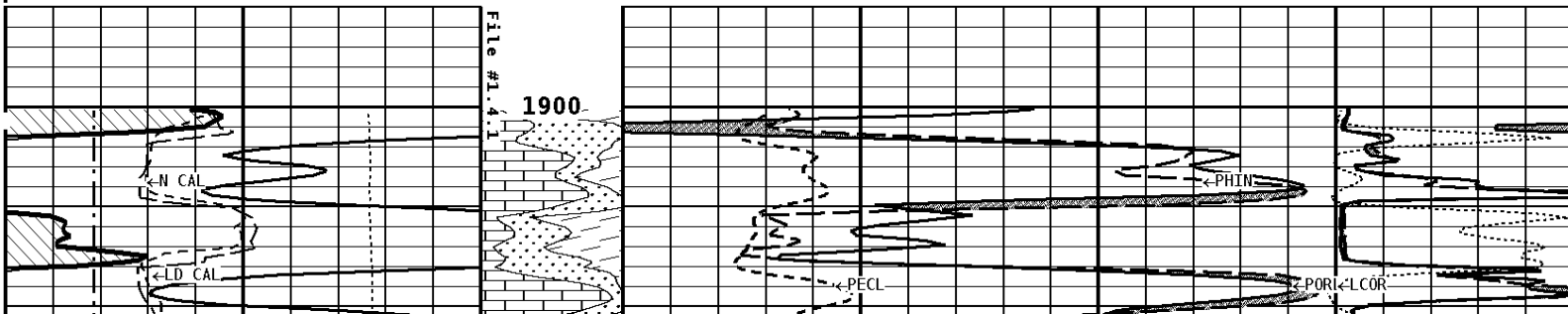
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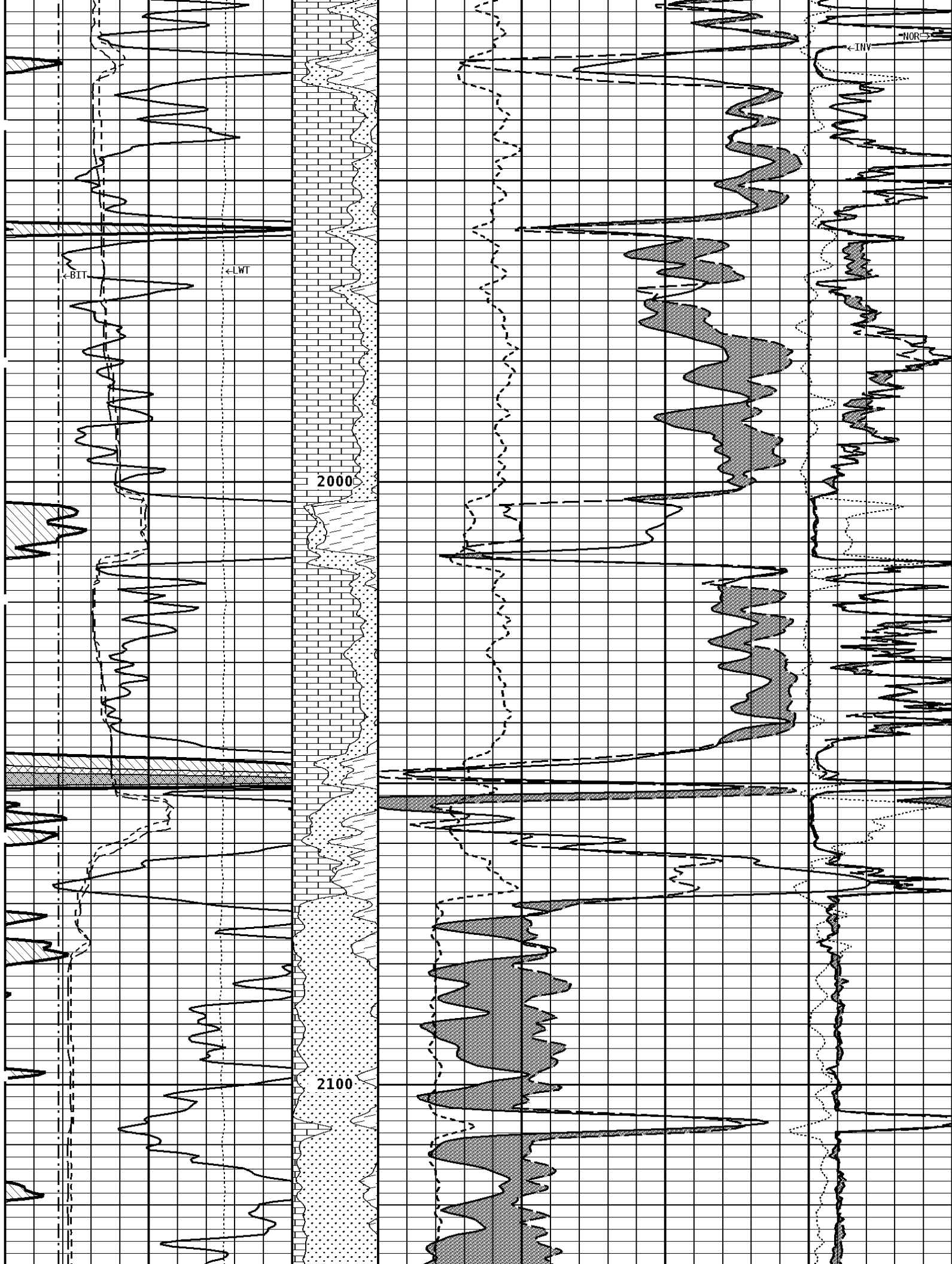
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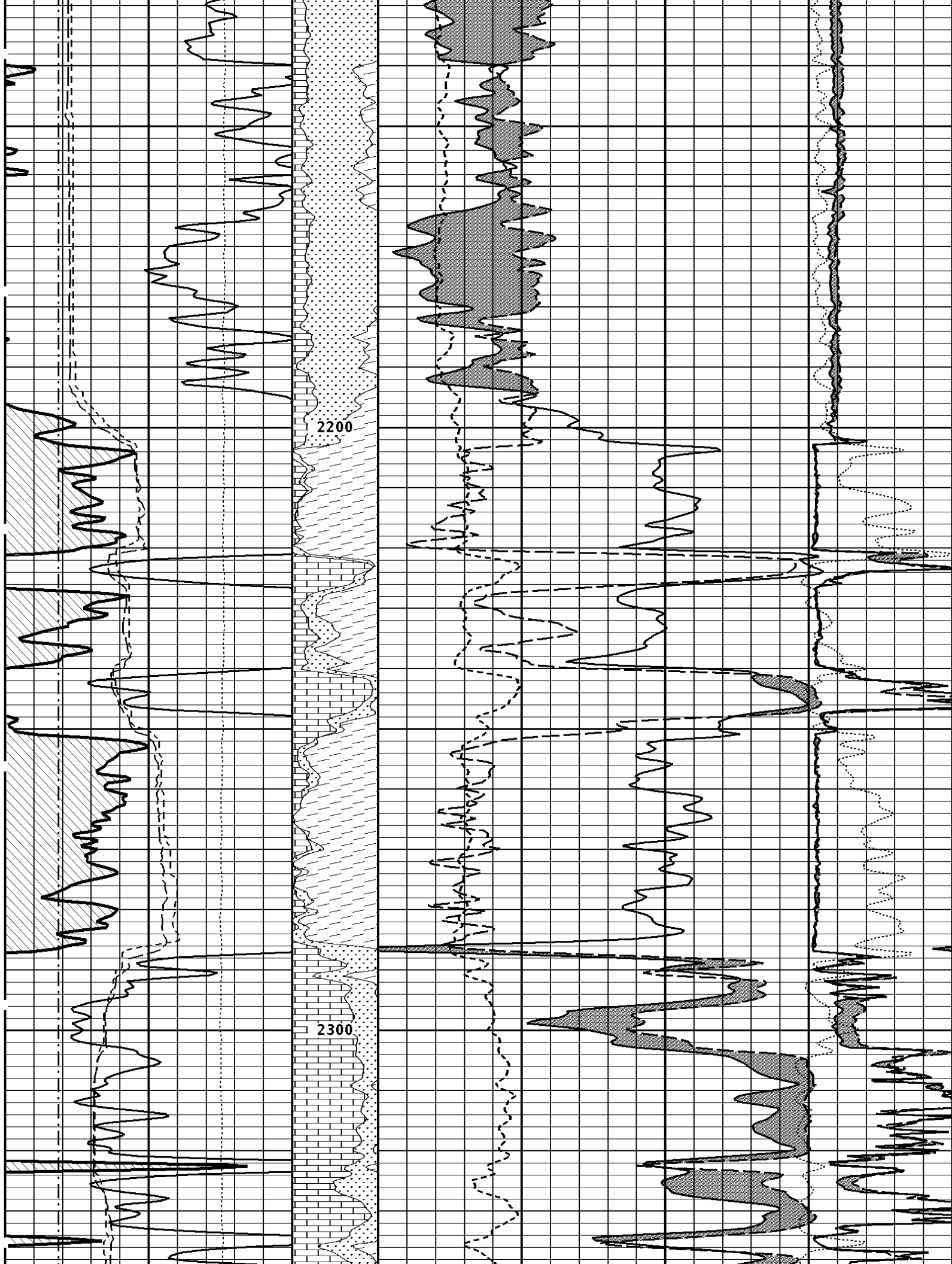
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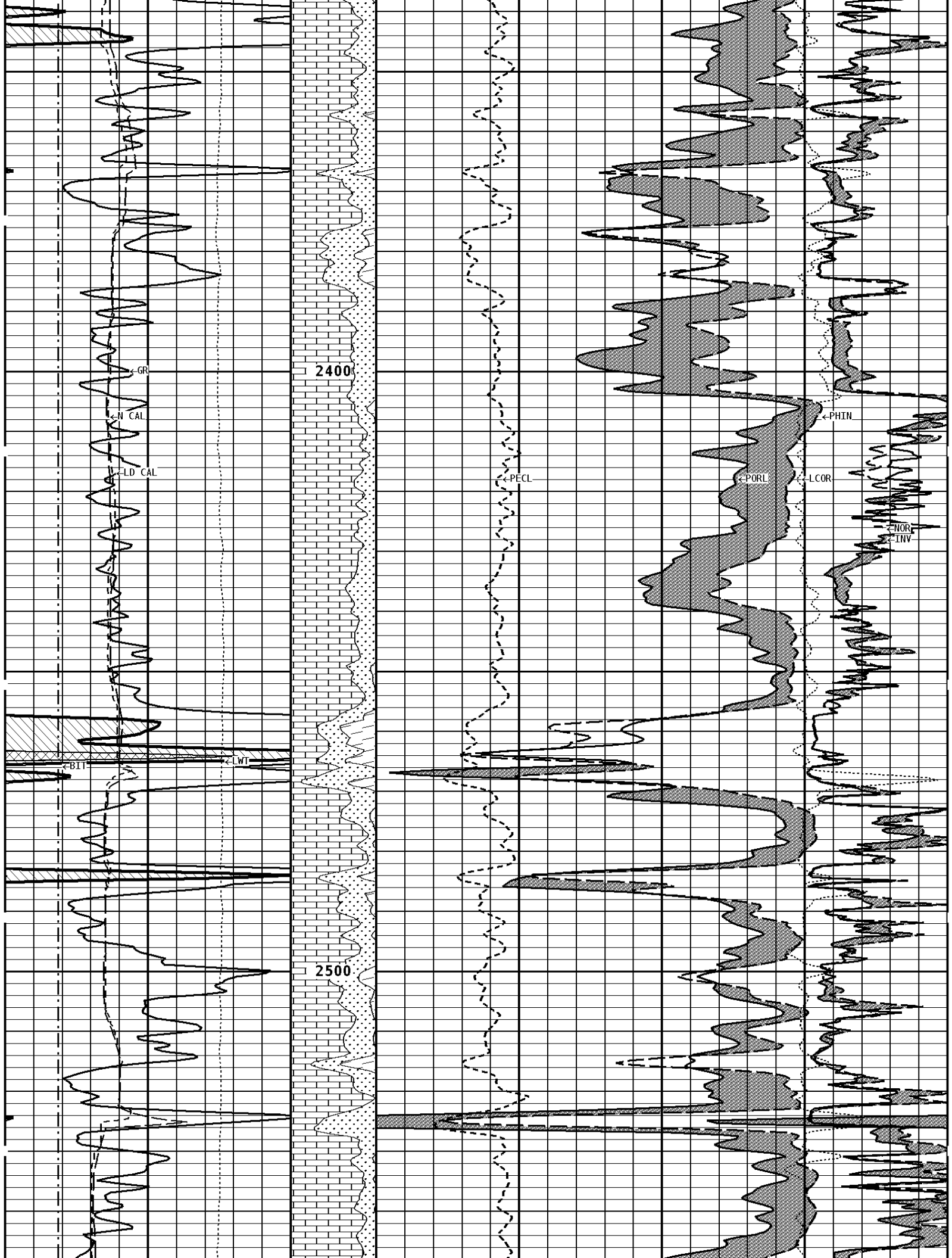
TENSION LBS 10000 0				MICRO-INVERSE OHMM 0 40	
BIT SIZE INCHES (IN) 6 16				MICRO-NORMAL OHMM 0 40	
DENSITY (X) CALIPER INCHES (IN) 16 26 6 16		Volume Quartz 0	PE CROSS-SECTION BARNS/ELECTRON 10		DENSITY CORRECTION G/CC -0.25 0.25
NEUTRON (Y) CALIPER INCHES (IN) 16 26 6 16		Volume Calcite 30	NEUTRON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

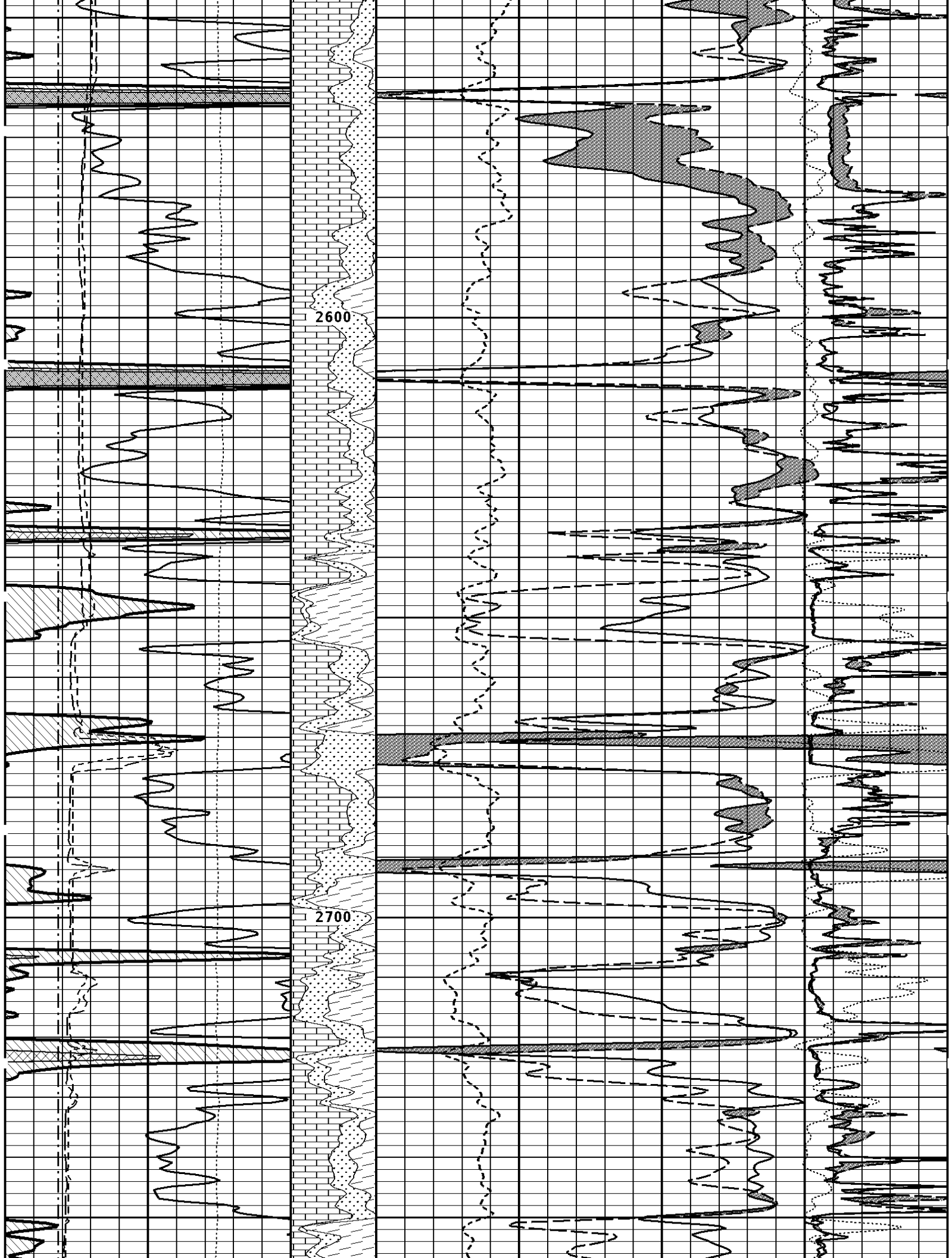
1:240 MAIN SECTION





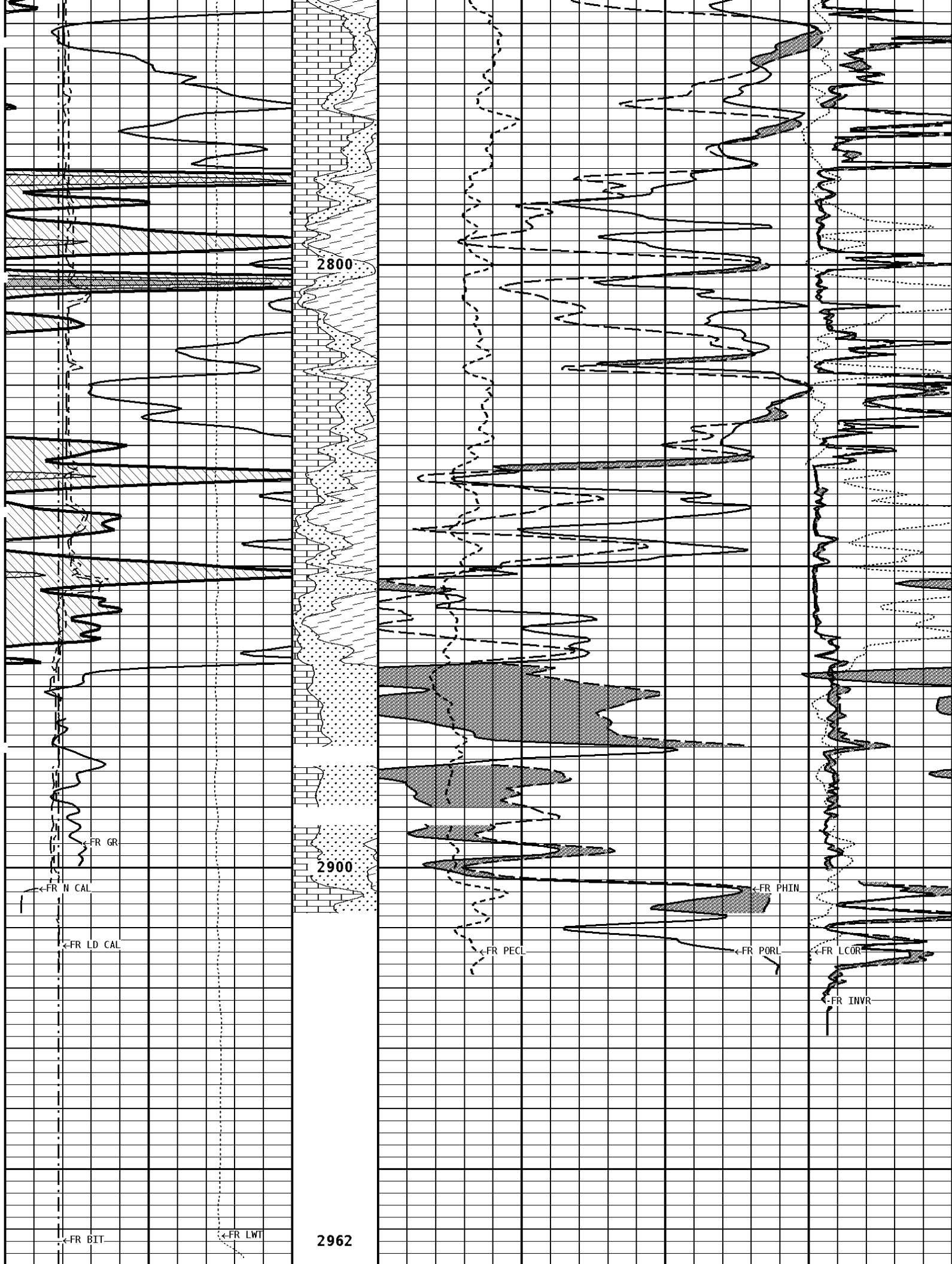






2600

2700



2800

2900

2962

FR GR

FR N CAL

FR LD CAL

FR BIT

FR LWT

FR PHIN

FR PECL

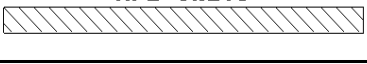
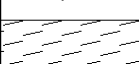
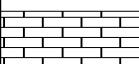
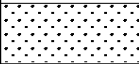
FR PORL

FR LCOR

FR INVR

File #1.4.1

1:240 MAIN SECTION

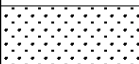


GAMMA RAY API UNITS 	Volume Dolo/Shale 	DENSITY POROSITY PERCENT (2.71 g/cc) 70 30 -10 -50	
NEUTRON (Y) CALIPER INCHES (IN) 16 6 ----- 26 16	Volume Calcite 	NEUTRON POROSITY PERCENT (LIMESTONE MATRIX) 30 ----- -10	
DENSITY (X) CALIPER INCHES (IN) 16 6 ----- 26 16	Volume Quartz 	PE CROSS-SECTION BARN/ELECTRON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

*** Borehole Zone Factors ***

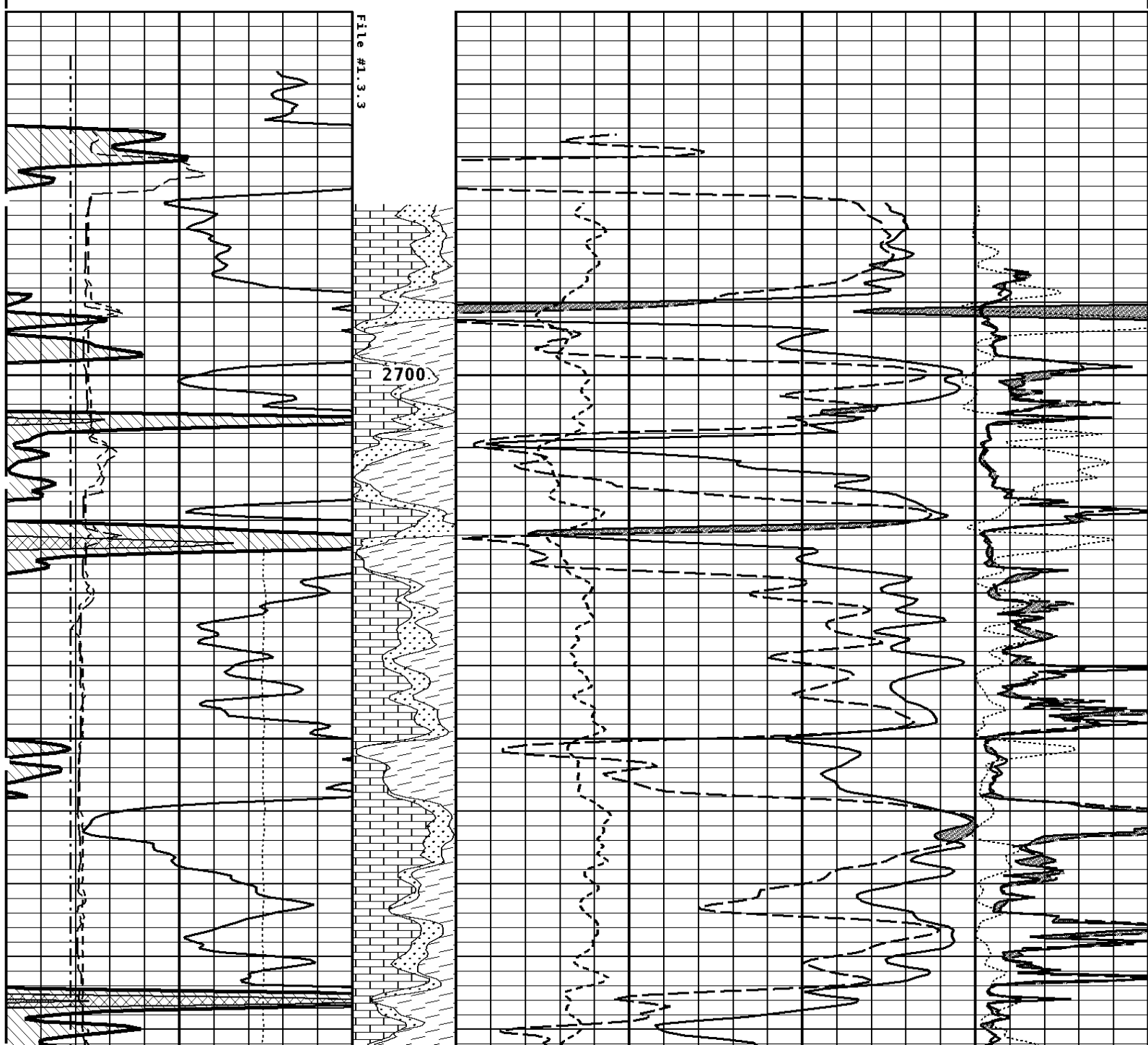
Zone 1 99999.0 to 0.0 Feet Matrix Density _____ 2.71 g/cc Fluid Density _____ 1.00 g/cc Formation Matrix _____ Limestone Drill Bit Size _____ 7.875 in Casing Diameter _____ 4.500 in Casing Correction (PHI N) _____ Disable
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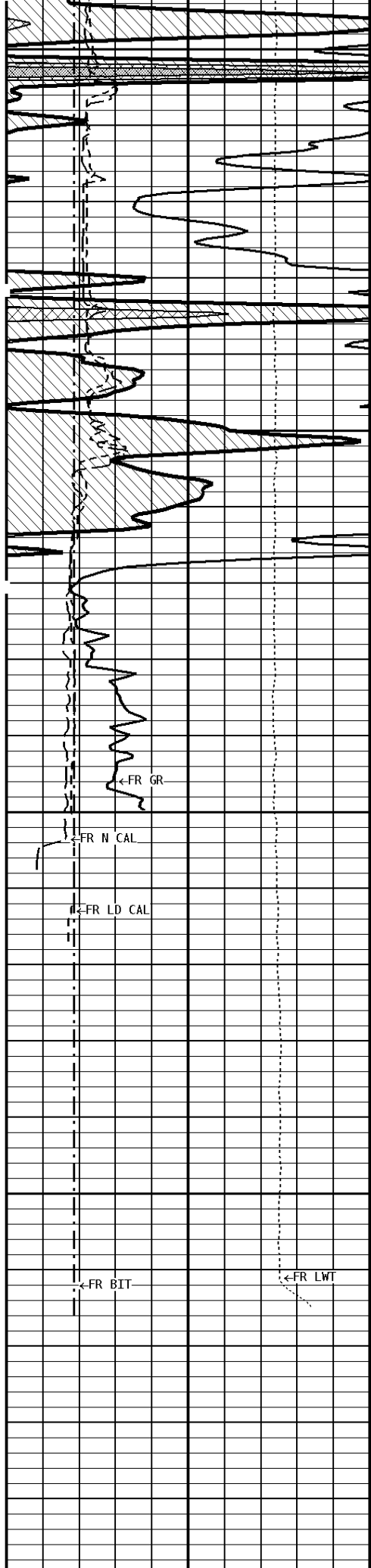
Well File: 123 AMER ADE 1-6 MAY 20 QUINT	Scale: 1:240
Segment: V1.D3.S3 RPT	Acquired: 2011-05/20 03:09 3.2.0-9901
Reference: 0	Processed: 2011-05/20 03:09 3.2.0-9901

TENSION LBS 10000 ----- 0		MICRO-INVERSE OHMH 0 ----- 40
BIT SIZE INCHES (IN) 6 ----- 16		MICRO-NORMAL OHMH 0 ----- 40
DENSITY (X) CALIPER	Volume	PE CROSS-SECTION
		DENSITY CORRECTION

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

1:240 REPEAT SECTION



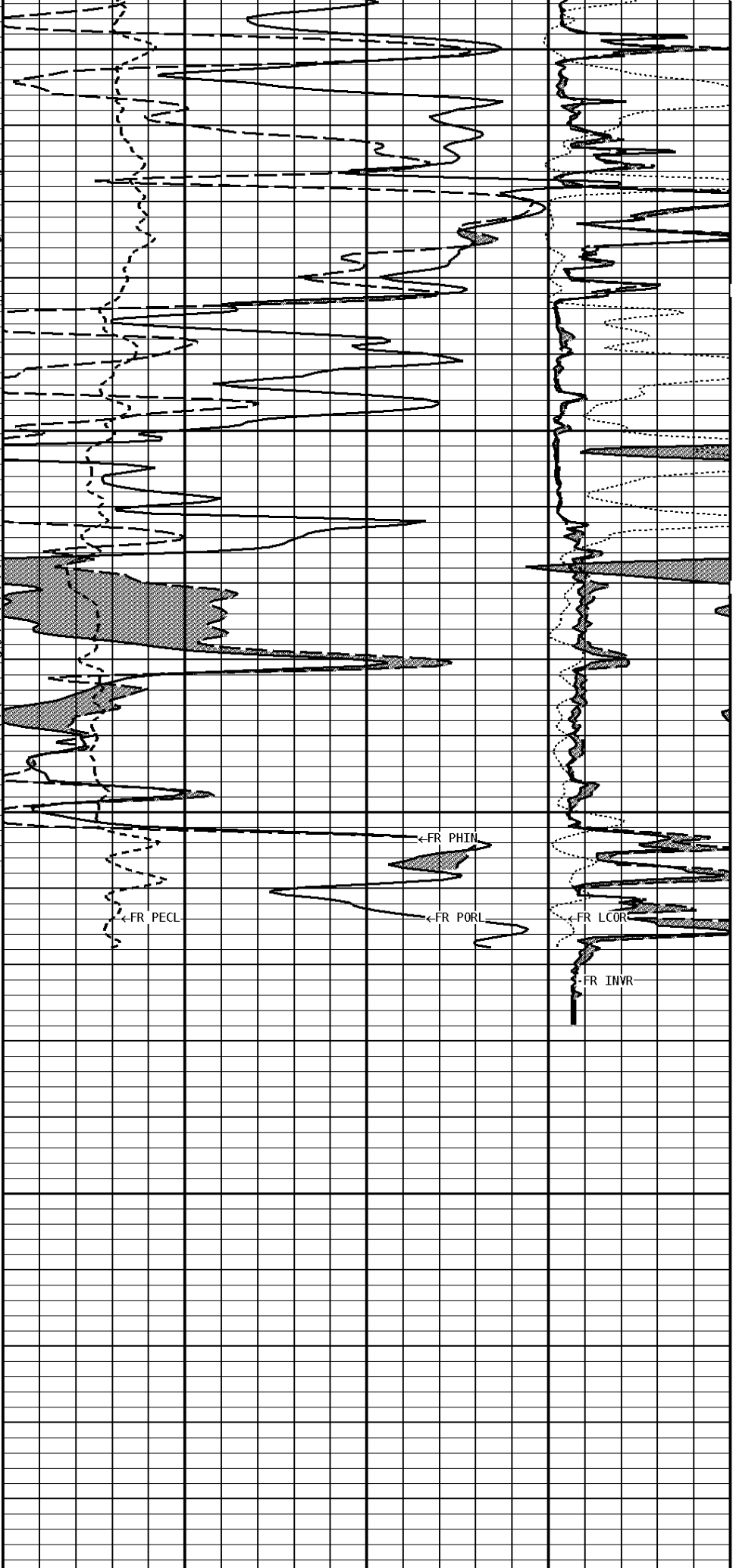


2800

2900


2962

File #1.3.3



File #1.3.3

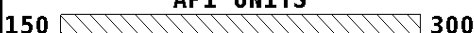
1:240 REPEAT SECTION

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

* 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 _____	4.500 in
Casing Correction (PHI N) _____	Disable

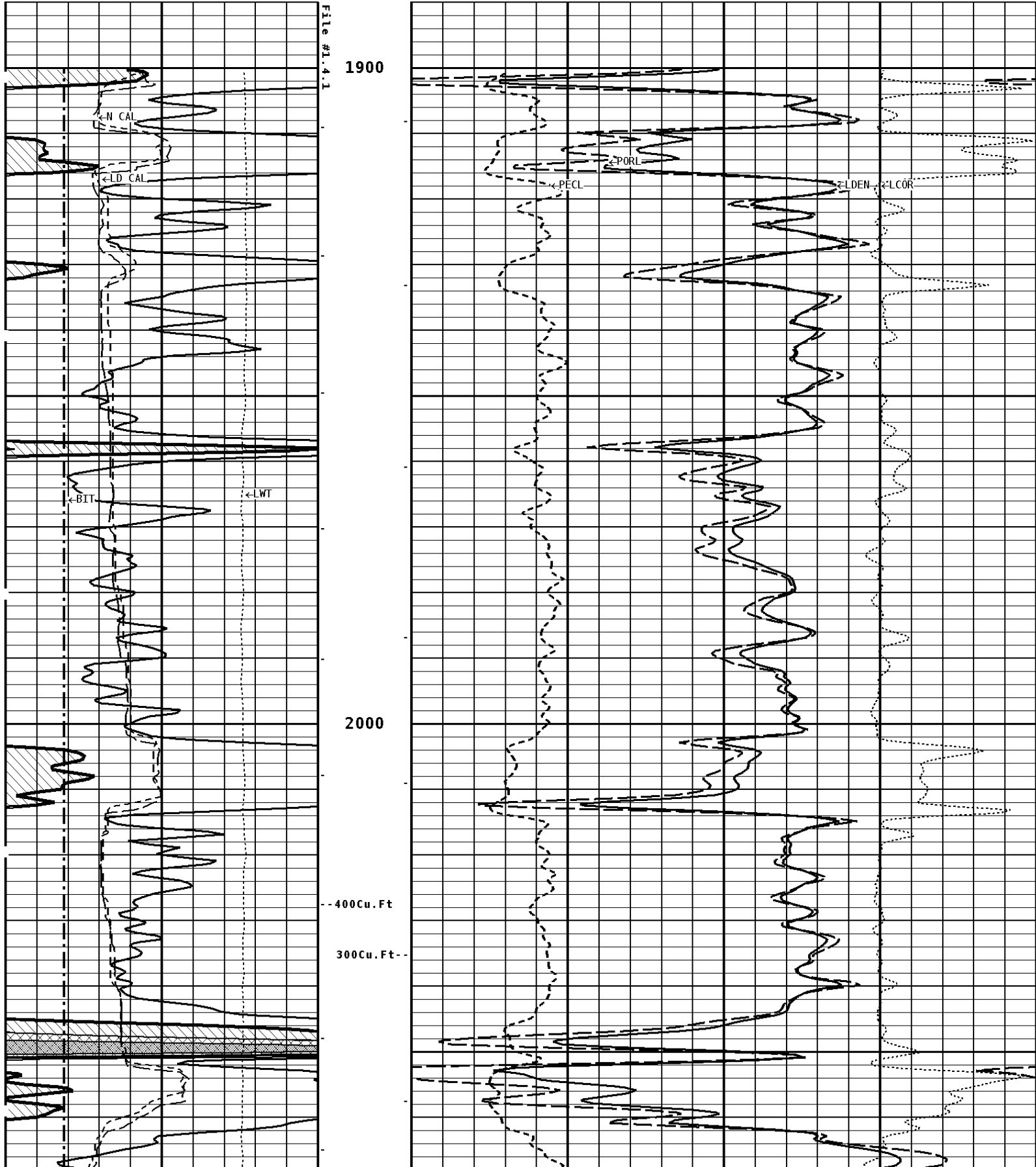
Well File: 123 AMER ADE 1-6 MAY 20 QUINT Segment: V1.D4.S1 MN Reference: 0	Scale: 1:240 Acquired: 2011-05/20 03:48 3.2.0-9901 Processed: 2011-05/20 03:48 3.2.0-9901
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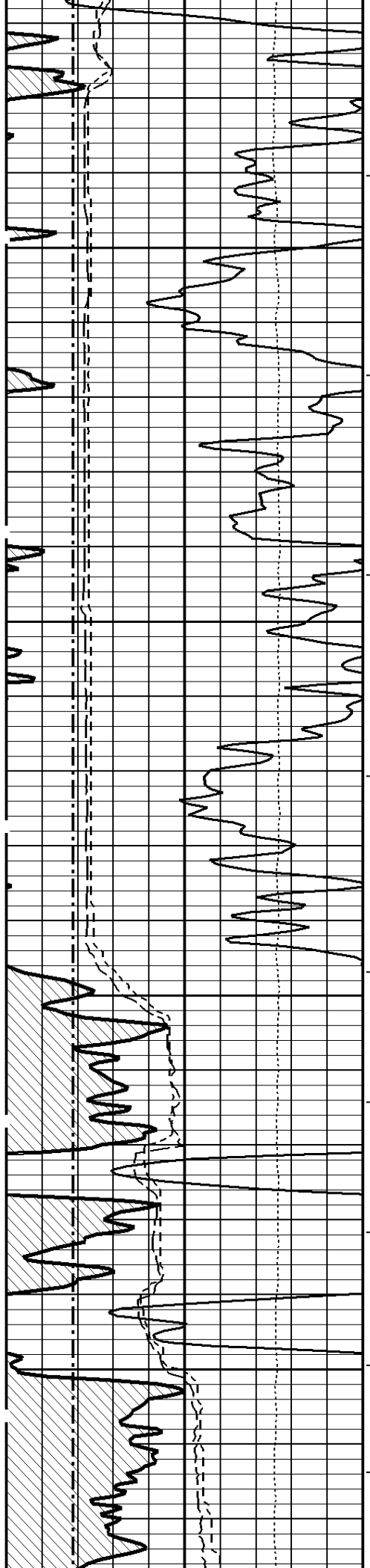
TENSION LBS 10000 ----- 0	
BIT SIZE INCHES (IN) 6 ----- 16	
DENSITY (X) CALIPER INCHES (IN) 16 6 ----- 26 16	PE CROSS-SECTION BARNs/ELECTRON 0 ----- 10
	DENSITY CORRECTION G/CC -0.25 ----- 0.25
NEUTRON (Y) CALIPER INCHES (IN) 16 6 ----- 26 16	DENSITY POROSITY PERCENT (2.71 g/cc) 70 30 ----- -10 -50
GAMMA RAY API UNITS 	COMPENSATED BULK DENSITY G/CC 3.0 ----- 4.0

150 0 300 150

3.0 2.0 1.0 4.0 3.0 2.0

1:240 MAIN SECTION BULK DENSITY

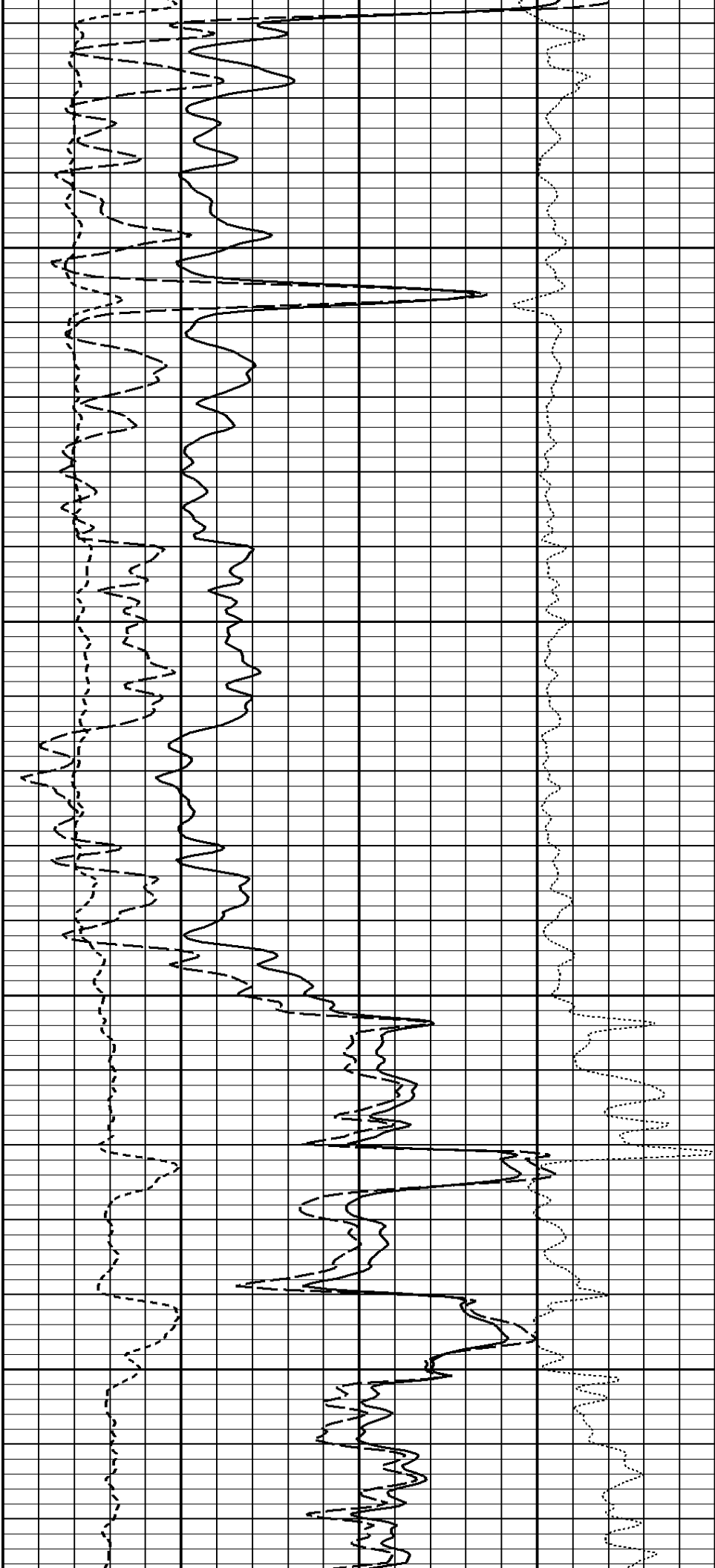


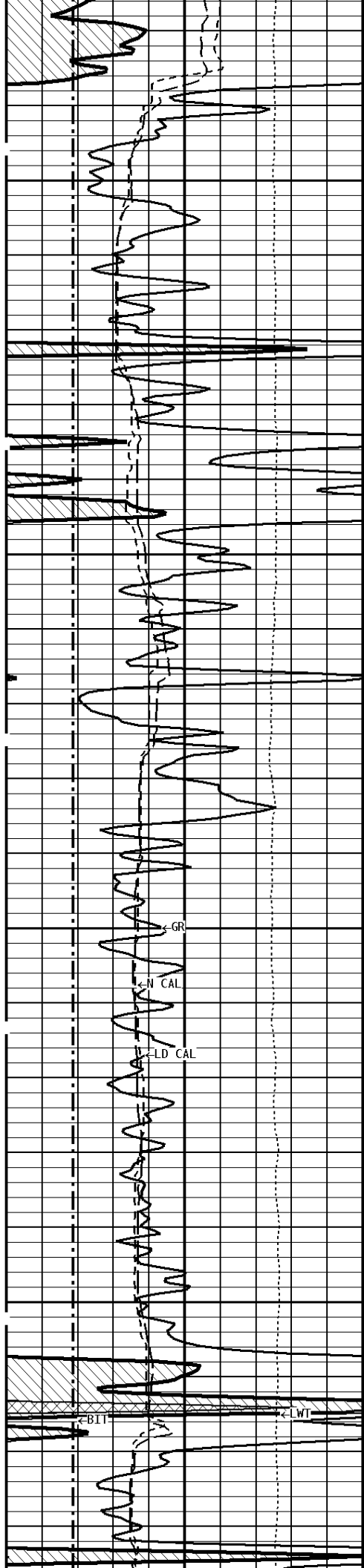


2100

2200

--300Cu. Ft

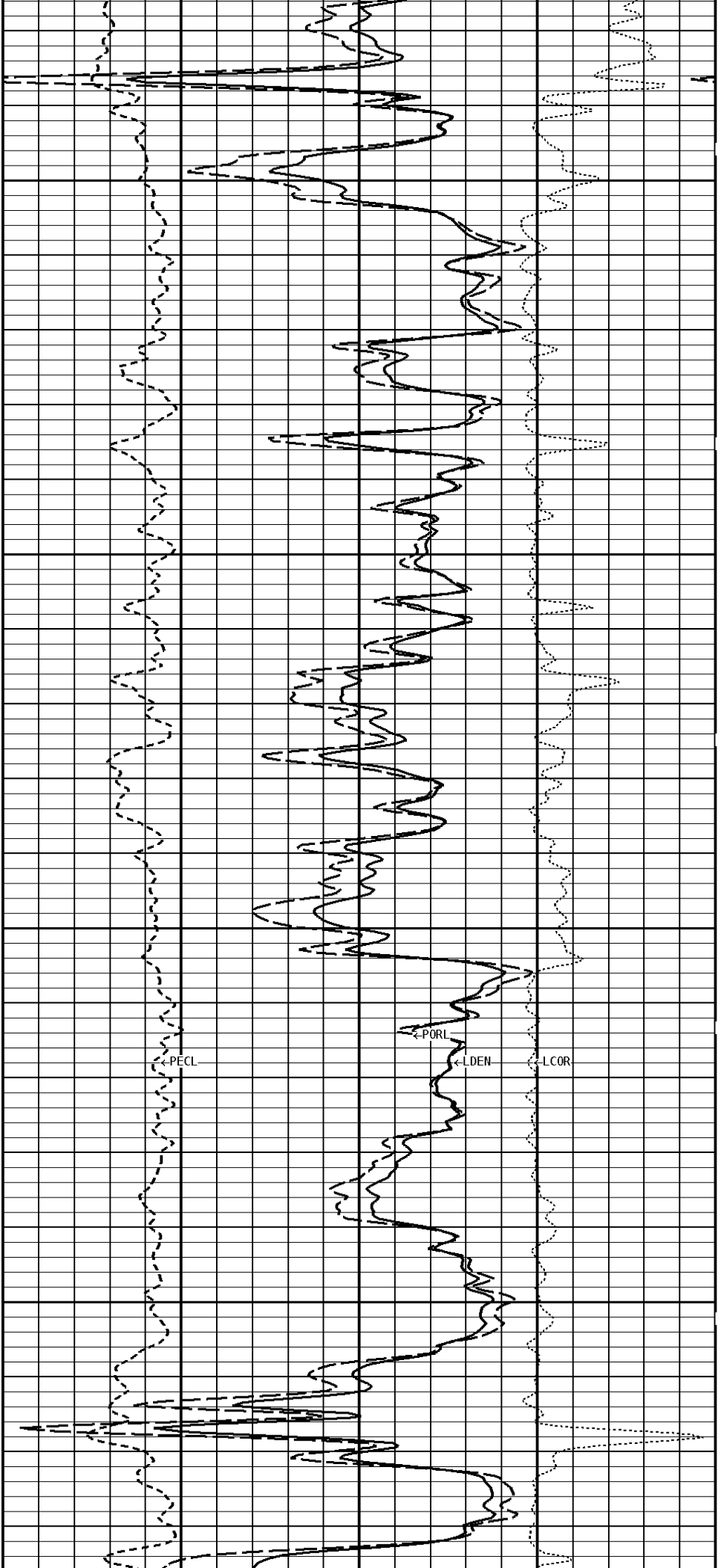




200Cu. Ft
2300

2400

200Cu. Ft

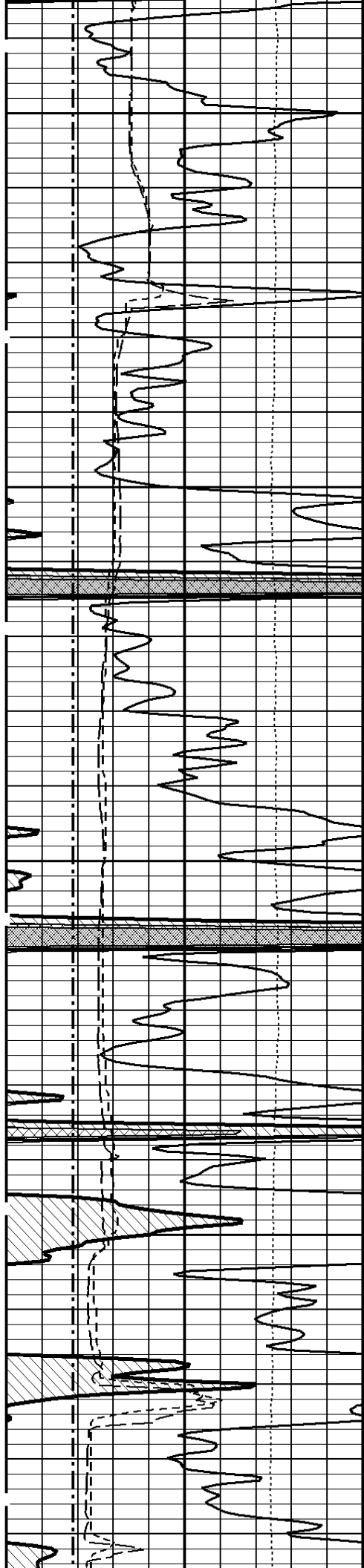


PECL

PRL

LDEN

LCOR

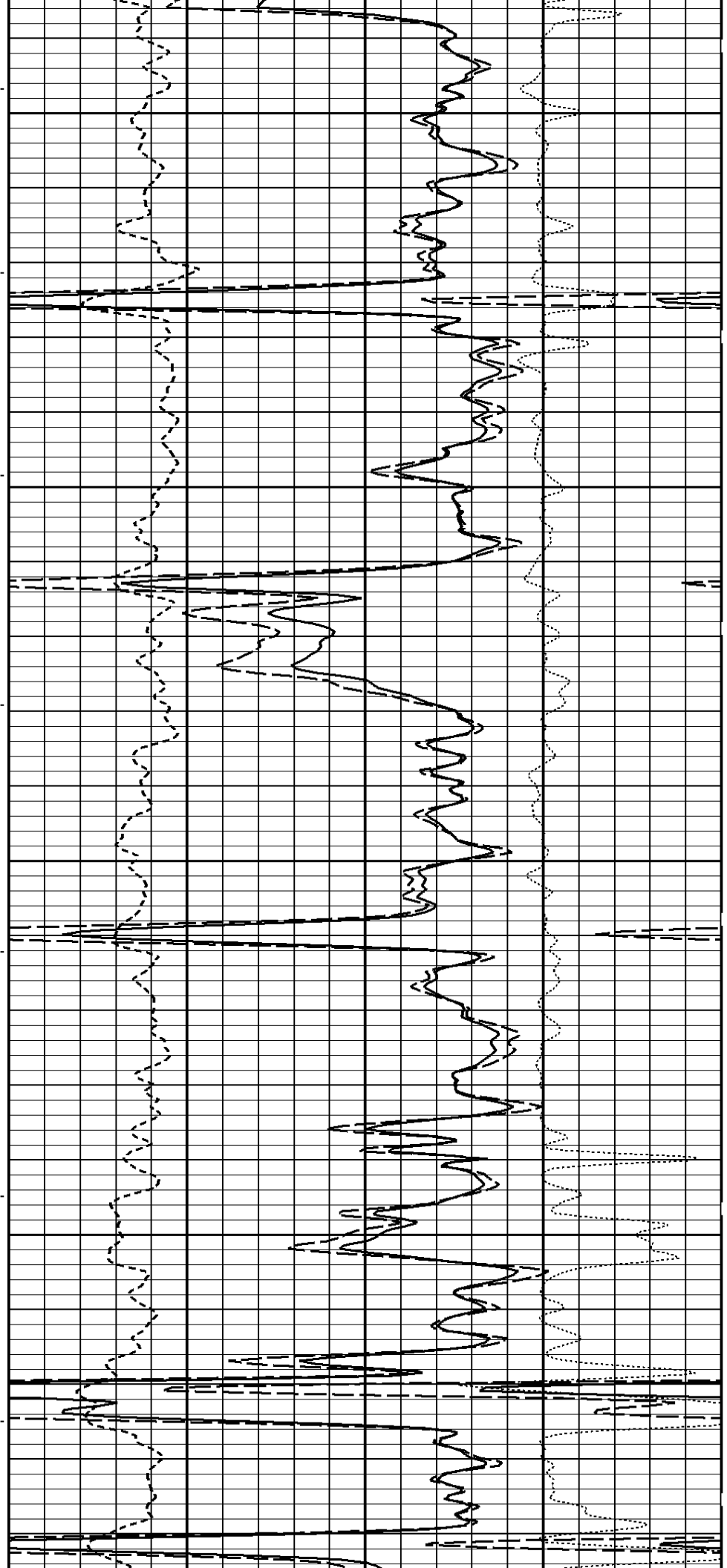


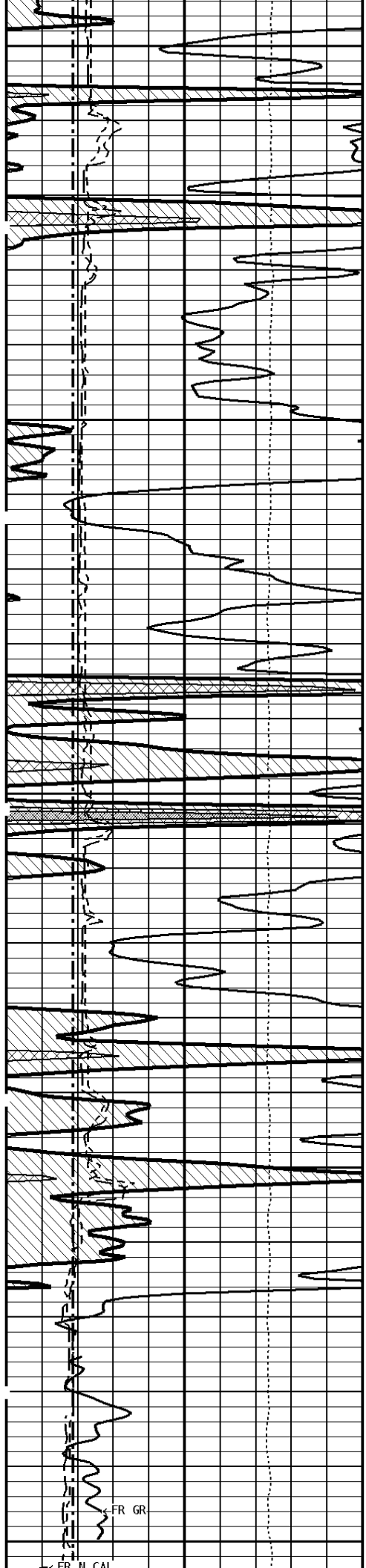
2500

100Cu. Ft.

2600

100Cu. Ft.

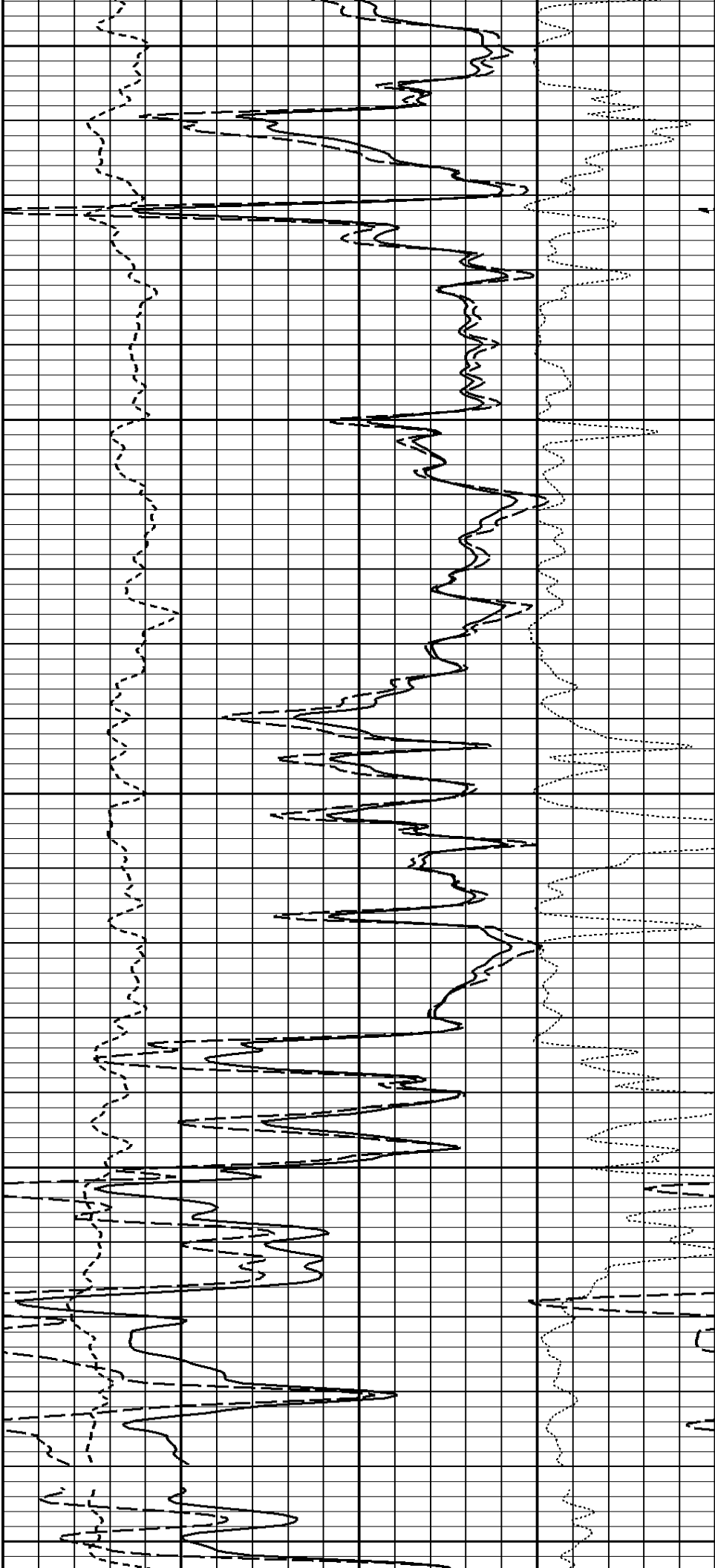




2700

2800

2900



FR GR

EP N CAI

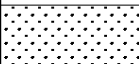
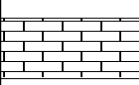
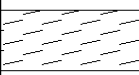
Matrix Density	2.71	g/cc
Fluid Density	1.00	g/cc
Formation Matrix	Limestone	
Drill Bit Size	7.875	in
Casing Diameter	4.500	in
Casing Correction (PHI N)	Disable	

*** Calibration Summary ***

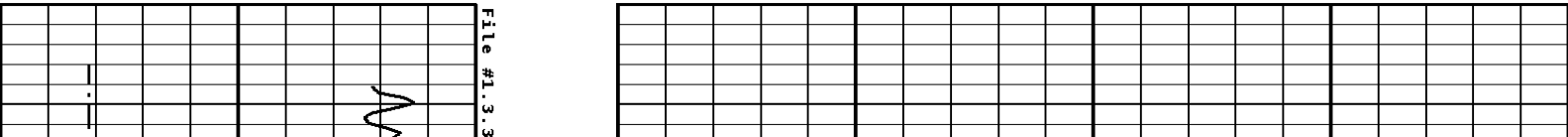
Shop Calibration					
GRT-B					
Performed : 00-xxx-0000			Time : 00:00		
Sensor Suite : GR-GR5			ID : GRT-BA-15		
	Background	Measured Jig	Units	Calibrated Jig	Units
GR	0	200	CPS	200	GRAPI
Shop Calibration					
CNT-AA					
Performed : 30-APR-2011			Time : 18:55		
Sensor Suite : CALI-BCN			ID : NDT-AC-027		
	Jig - Measured		Jig - Calibrated		Units
	Ring#1 Ring#2		Ring#1 Ring#2		
CL # 1	7.3 14.1		6.0 12.0		IN.
Shop Calibration					
LDT-DA					
Performed : 26-Apr-2011			Time : 10:12		
Sensor Suite : BHC NEUT			ID : CNP-AA-112		
Source ID : N-1046					
	Tank		Verification		Units
	Measured	Calibrated	Jig		
N/F	4.0513	3.6893	3.6858		
Porosity	26.4	20.5	20.4		%
Shop Calibration					
LDT-DA					
Performed : 18-MAY-2011			Time : 17:34		
Sensor Suite : CALI-LTH			ID : PDT-GA-472		
	Jig - Measured		Jig - Calibrated		Units
	Ring#1 Ring#2		Ring#1 Ring#2		
CL # 1	5.9 9.6		6.0 12.0		IN.
Shop Calibration					
LDP-DA					
Performed : 26-Apr-2011			Time : 11:26		
Sensor Suite : BHCPENLNG			ID : LDP-DA-067		
Source ID : 2991GW					
Short Space					
	BKGD	Al	Mg	Al+Fe	Units
LSW1	65	1176	1913	756	CPS
LSW2	72	1350	2147	973	CPS
LSW3	262	3080	4973	2605	CPS
LSW4	323	2759	4001	2412	CPS
LSW5	39	67	74	63	CPS
LSW6	76	82	84	84	CPS
LSW7	55	58	58	57	CPS
LSW8	7	9	10	9	CPS
QS	0.161	0.174	0.183	0.193	
PES			2.778	5.967	
SSDN		2.600	1.680		G/CC
Long Space					
	BKGD	Al	Mg	Al+Fe	Units
LLW1	96	1305	5305	785	CPS
LLW2	106	2331	9081	1684	CPS
LLW3	402	4233	16063	3622	CPS
LLW4	522	1992	6430	1788	CPS
LLW5	57	67	130	65	CPS
LLW6	176	168	159	171	CPS
LLW7	108	105	100	107	CPS
LLW8	3	6	18	6	CPS
QL	0.240	0.231	0.226	0.232	
PEL			2.697	5.458	
LSDN		2.600	1.680		G/CC
Shop Calibration					
MSF-DA					

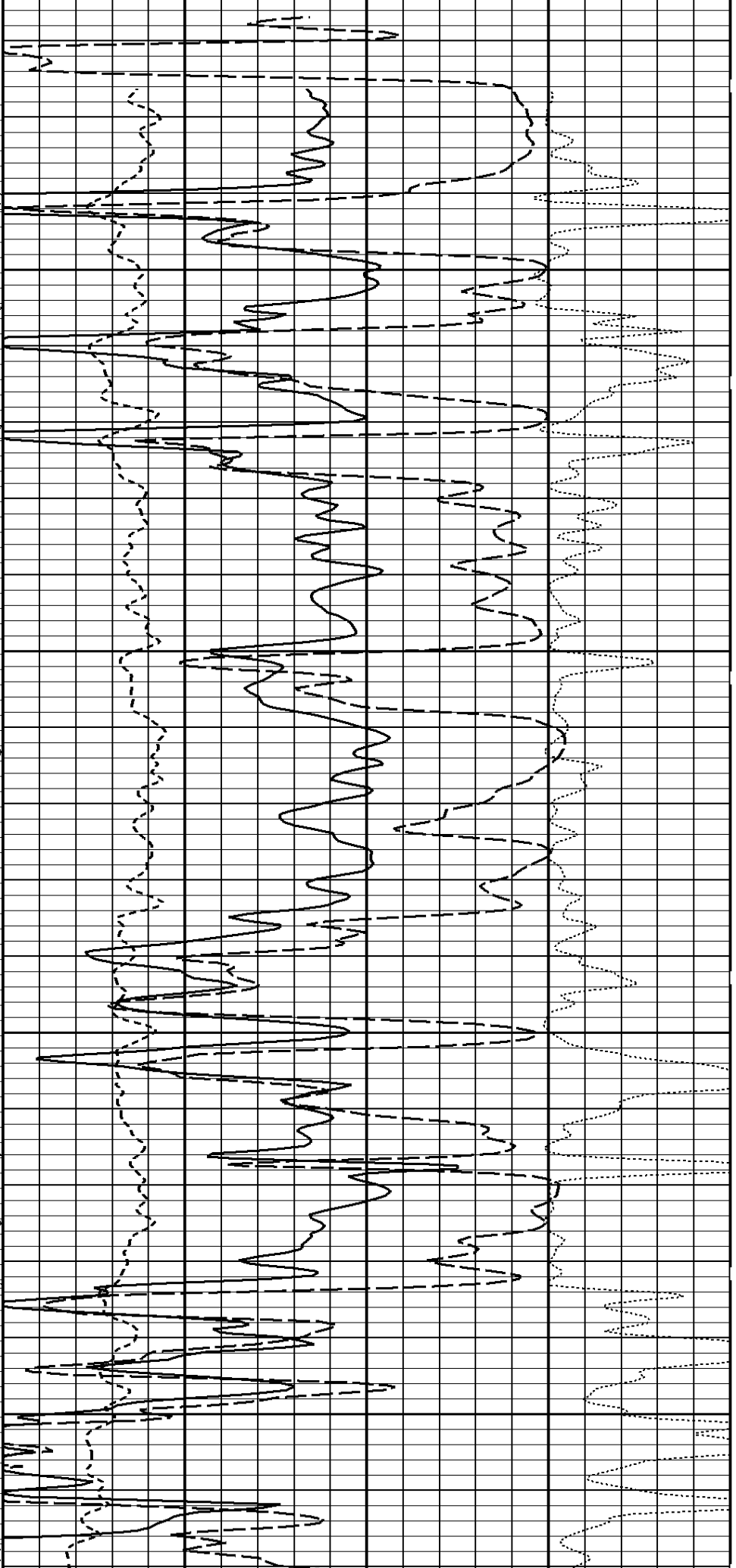
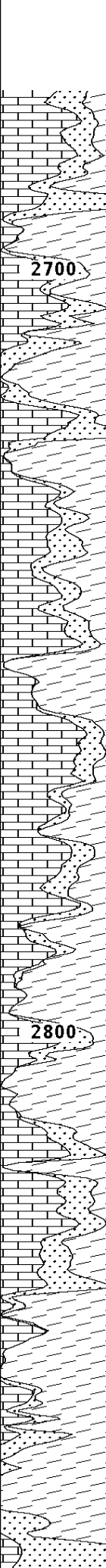
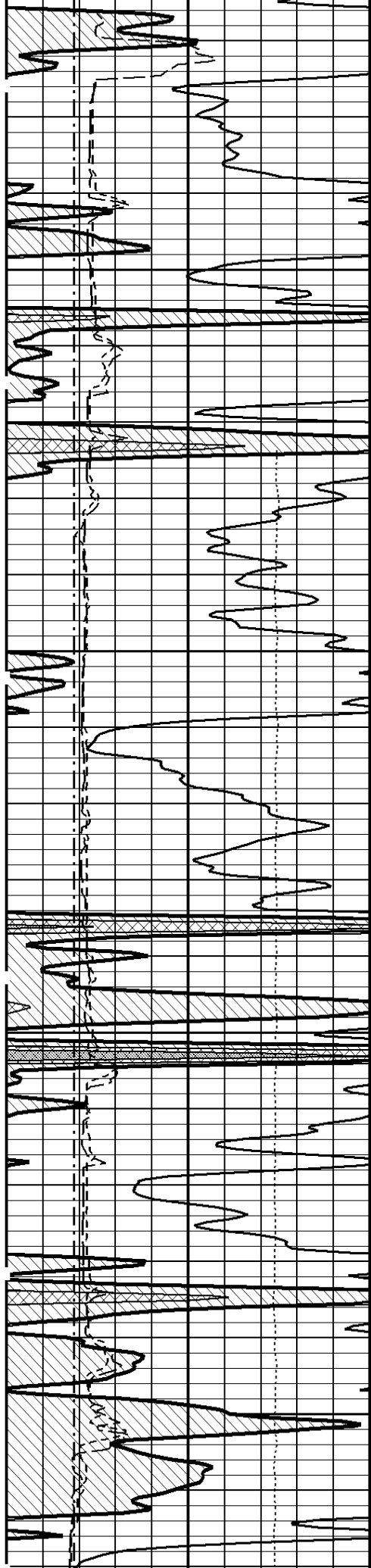
MST-DA						
Performed : 14-OCT-2007			Time : 12:54			
Sensor Suite : CALI-MSN			ID : MST-NG-26			
		Jig - Measured		Jig - Calibrated		Units
CL # 1	Ring#1	Ring#2	Ring#1	Ring#2		IN.
	7.1	13.1	6.0	12.0		
MSTDA-NI						
Performed : 01-MAY-2007			Time : 11:46			
Sensor Suite : MSTDA-NI			ID : MST-NG-26			
		Measured		Internal		Calibrated
	Zero	Reference	Units	Zero	Reference	Units
INV-V	0.0	30325.6		0.00	1546.00	MV
NOR-V	3.2	30476.3		0.00	1585.00	MV
IN-C	1.5	60152.2		0.00	15.46	UA
INV-R					32.34	OHMM
NOR-R					55.11	OHMM
MSTDAMSF						
Performed : 14-OCT-2007			Time : 12:55			
Sensor Suite : MSTDAMSF			ID : MST-NG-26			
		Measured		Internal		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

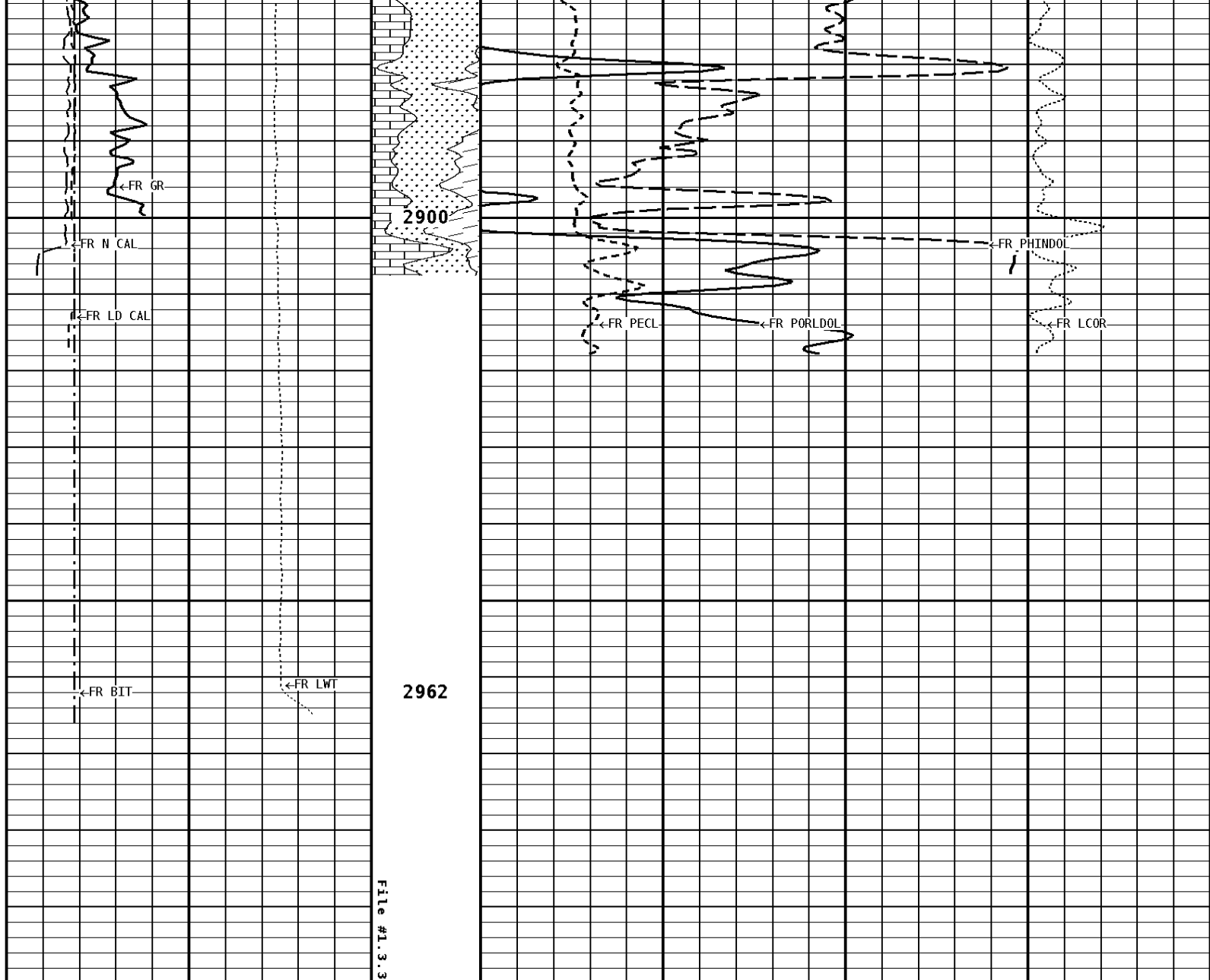
Well File: 123 AMER ADE 1-6 MAY 20 QUINT Scale: 1:240
 Segment: V1.D3.S3 RPT Acquired: 2011-05/20 03:09 3.2.0-9901
 Reference: 0 Processed: 2011-05/20 03:09 3.2.0-9901

TENSION LBS		10000 0	
BIT SIZE INCHES (IN)		6 16	
DENSITY (X) CALIPER INCHES (IN)	Volume Quartz	PE CROSS-SECTION BARN/ELECTRON	DENSITY CORRECTION G/CC
16 26 6 16		0 10 -0.25	0.25
NEUTRON (Y) CALIPER INCHES (IN)	Volume Calcite	DENSITY POROSITY PERCENT (2.87 G/CC)	
16 26 6 16		30 -10	
GAMMA RAY API UNITS	Volume Dolo/Shale	NEUTRON POROSITY PERCENT (DOLOMITE MATRIX)	
150 300 0 150		30 -10	

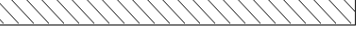
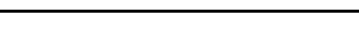
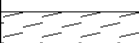
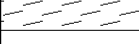

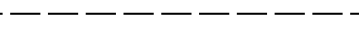
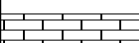
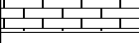

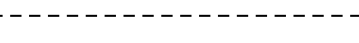



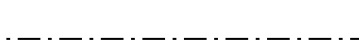
1:240 MAIN SECTION







1:240 MAIN SECTION

GAMMA RAY API UNITS 150  300 0  150		Volume Dolo/Shale  30  -10	NEUTRON POROSITY PERCENT (DOLOMITE MATRIX) -10	
NEUTRON (Y) CALIPER INCHES (IN) 16  26 6  16		Volume Calcite  30  -10	DENSITY POROSITY PERCENT (2.87 G/CC) -10	
DENSITY (X) CALIPER INCHES (IN) 16  26 6  16		Volume Quartz  0  10	PE CROSS-SECTION BARNS/ELECTRON 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 Feet

Matrix Density_____	2.71	g/cc
Fluid Density_____	1.00	g/cc
Formation Matrix_____	Limestone	
Drill Bit Size_____	7.875	in
Casing Diameter_____	4.500	in
Casing Correction (PHI N)_____	Disable	