

Tucker

WIRELINE SERVICES

COMPENSATED NEUTRON
PEL DENSITY LOG

File No. : TUL-55043
Company : RUNNING FOXES PETROLEUM INC.
Well : SHAW # 1-25B INJ
Field : WILDCAT
County : BOURBON
State : KANSAS
Country : U.S.A.

Location : API: #15-011-23737-00-00
310' FNL & 370' FEL
NW NE NE NE

Sect : 25 Twp : 24S Rge : 25E

Recorded By : R. FRANKLIN
Witnessed By : G. BRATTON

Date : JUN 09 2010
Run No. : 1

Permanent Datum : GL
Drilling Measured From : GL
Log Measured From : GL
Above Permanent Datum : 0.00 FT

Depth--Driller : 422.0 FT
Depth--Logger : 420.0 FT
Bottom Log Interval : 397.0 FT
Top Log Interval : 21.0 FT

Casing Depth--Driller: 21.0 FT
Casing Depth--Logger : 21.0 FT
Casing Diameter : 7.000 IN

Bit Size : 6.125 IN
Unit No. : TRK 123
Location : TULSA

Elevations :
KB : FT
DF : FT
GL : 871.00 FT

Additional Services
PTT

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 : FRESH / NATIVE
Density : 0.000 LBS/GAL
Viscosity : 0.000 SEC/QT
pH : 0.000
Fluid Loss : 0.000 CC
Salinity : 0.000 KPPM

RM Source : MEASURED
RM : 10.000 OHMM at 73 F
RM at BHT : 9.410 OHMM at 78 F

RMF Source : CALCULATED
RMF : 8.500 OHMM at 73 F
RMF at BHT : 8.000 OHMM at 78 F

RMC Source : CALCULATED
RMC : 11.500 OHMM at 73 F

RMC :	11.500	OHMM at	73	F
RMC at BHT :	10.820	OHMM at	78	F
Max Recorded Temp. :			78	F
Time Circulation Stopped :				
Operating Rig Time, Hrs. :			1.5	

- Source Serial Numbers -

Gamma	2991GW
Neutron	N-1046

- Sonde Serial Numbers -

GRTB	GRT-BC-41
CNT	CNP-AA-112
LDTNG	LDP-DA-066
PIT_B	PIT-BA-20

Casing Strings

Size (IN)	Weight (LB/FT)	Bottom (FT)
7.000	15.00	21.00

- Comments -

ALL PRESENTATIONS AS PER CLIENTS REQUEST.

GRT, CNT, LDT, AND PIT RUN IN COMBINATION.
 CALIPERS ORIENTED ON THE X-Y AXIS.
 2.71 G/CC USED TO CALCULATE POROSITY.
 ANNULAR HOLE VOLUME CALCULATED USING 2.875" PRODUCTION CASING.
 REPEAT PULLED OVER ZONE OF INTEREST.

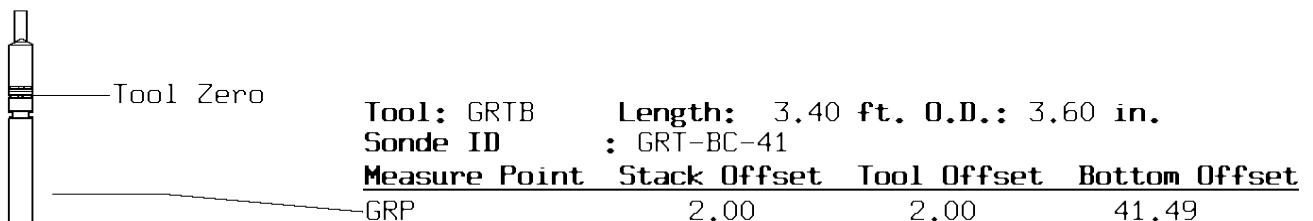
GRT: GRP.
 CNT: PHIN, PHINLS, CLCNIN.
 LDT: PORL, PORLLS, LCORN, PECLN, LDENN, CLLDIN.
 PIT: ILD, ILM, CIRD, SFLAEC, SPU.

OPERATORS:
 S. DAVIS
 M. GARNER

THANK YOU FOR USING TUCKER WIRELINE SERVICES!

Tool String Schematic

Total Tool Length - 43.49 ft.
 Maximum Outside diameter - 4.80 in.
 Net Weight in Air - 743.00 lbs.



3.40 ft.

Tool: CNT

Length: 9.30 ft. O.D.: 4.36 in.

Sonde ID : CNP-AA-112

Source ID : N-1046

Pad ID : CNP-AA-112

Measure Point	Stack Offset	Tool Offset	Bottom Offset
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CLCN	9.40	6.00	34.09
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PHIN	10.24	6.84	33.25
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12.70 ft.

Tool: LDTNG

Length: 9.30 ft. O.D.: 4.80 in.

Sonde ID : LDP-DA-066

Source ID : 2991GW

Pad ID : LDP-DA-066

Measure Point	Stack Offset	Tool Offset	Bottom Offset
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CLLD	18.70	6.00	24.79
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PEL	19.70	7.00	23.79
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PES	20.10	7.40	23.39
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LDEN	19.70	7.00	23.79
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LCOR	19.70	7.00	23.79
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22.00 ft.

Tool: PIT

Length: 21.49 ft. O.D.: 3.62 in.

Sonde ID : PIT-BA-20

Measure Point	Stack Offset	Tool Offset	Bottom Offset
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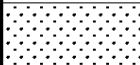
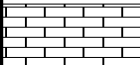
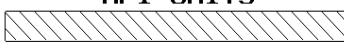
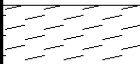
ILD	30.92	8.92	12.56
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ILM	32.10	10.10	11.39
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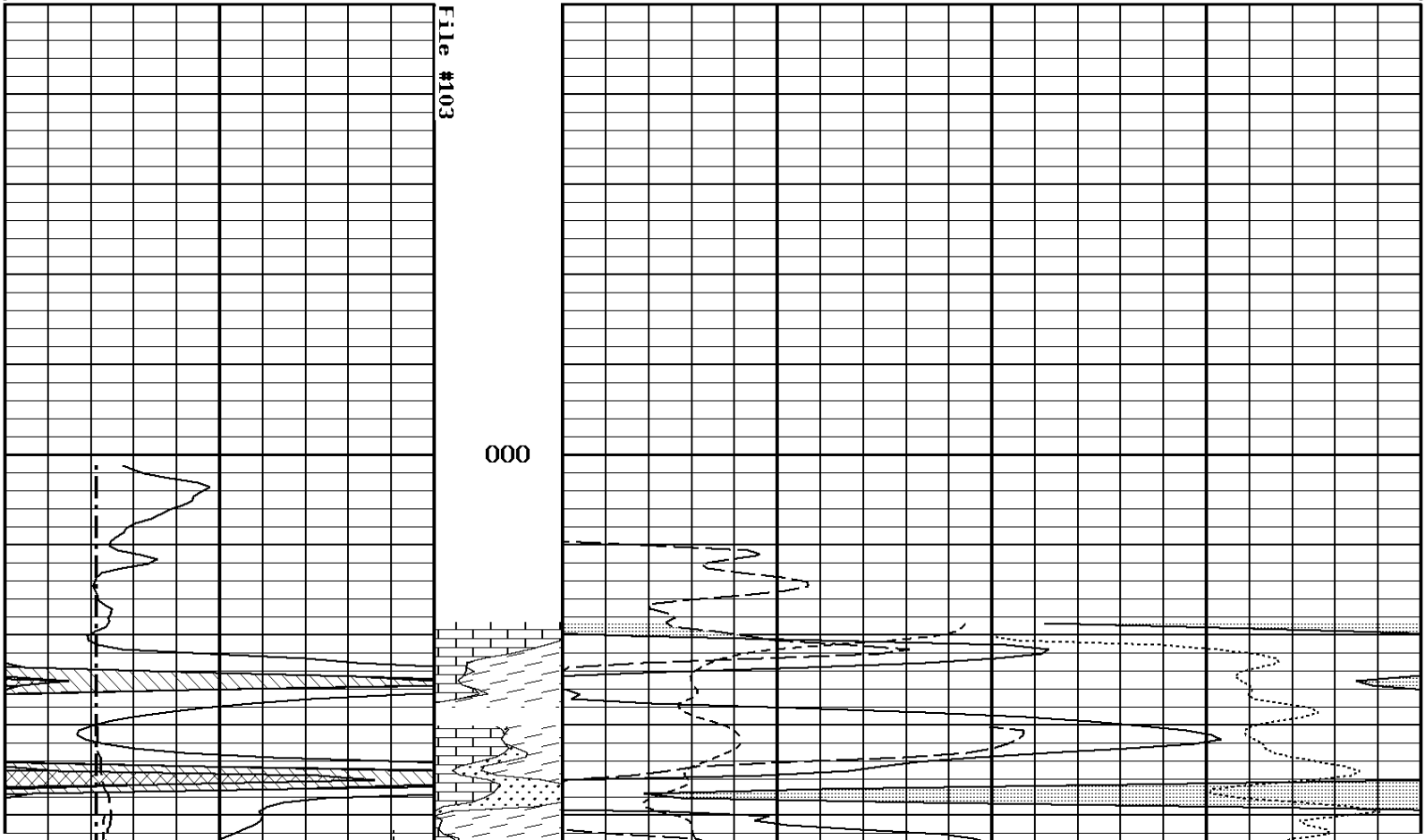
SFLU	39.49	17.49	4.00
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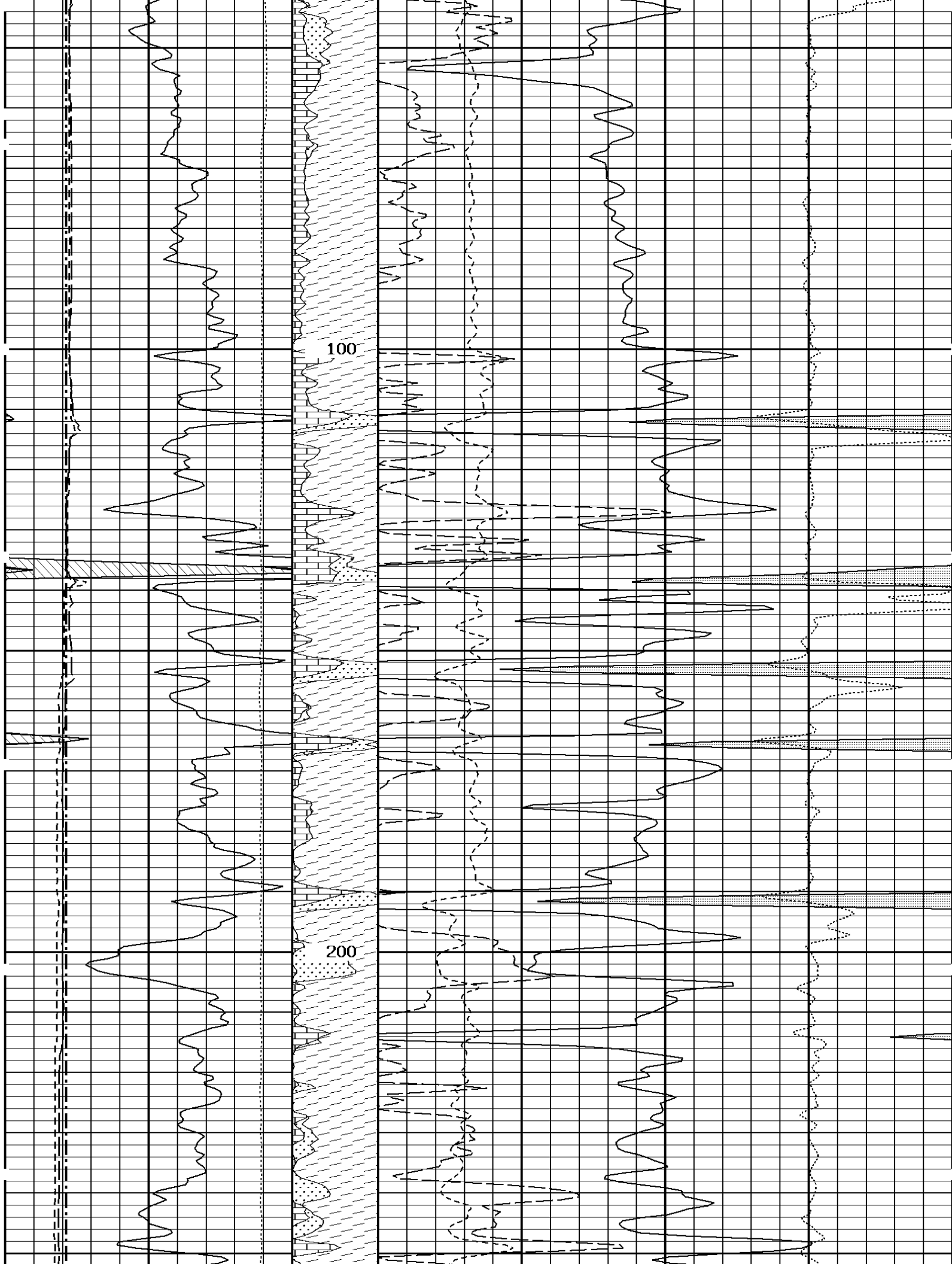
SP	42.60	20.60	0.88
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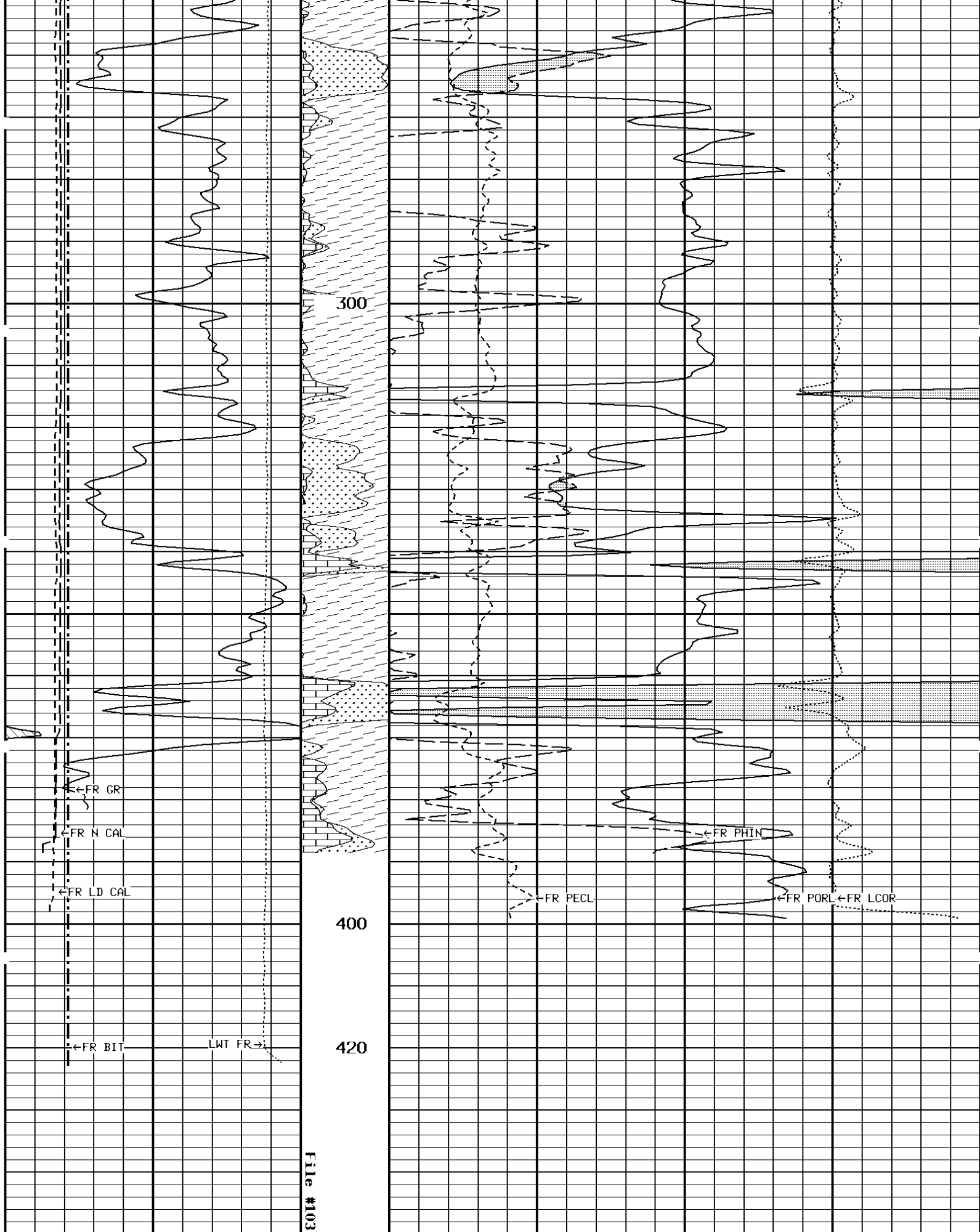
LWT 43.49 ft.

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

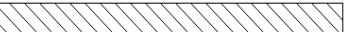
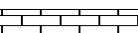
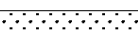
1:240 MAIN SECTION





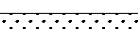
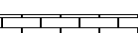


1:240 MAIN SECTION

GAMMA RAY API UNITS 200  400 0 200		Volume Dolo/Shale 	DENSITY POROSITY PERCENT (2.71 g/cc) 70 30 30 -10	
NEUTRON (Y) CALIPER INCHES (IN) 14 24 4 14		Volume Calcite 	NEUTRON POROSITY PERCENT (LIMESTONE MATRIX) 30 -10	
DENSITY (X) CALIPER INCHES (IN) 14 24 4 14		Volume Quartz 	PE CROSS-SECTION BARNs/ELECTRON 0 10	DENSITY CORRECTION G/CC -0.25 0.25
BIT SIZE INCHES (IN) 4 14				
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_____	6.125	IN
Casing Correction (PHI N)_____	Disable	

TENSION LBS 10000 0				
BIT SIZE INCHES (IN) 4 14				
DENSITY (X) CALIPER INCHES (IN) 14 24 4 14		Volume Quartz 	PE CROSS-SECTION BARNs/ELECTRON 0 10	DENSITY CORRECTION G/CC -0.25 0.25
NEUTRON (Y) CALIPER INCHES (IN) 14 24 4 14		Volume Calcite 	NEUTRON POROSITY PERCENT (LIMESTONE MATRIX) 30 -10	
GAMMA RAY		Volume	DENSITY POROSITY	

API UNITS

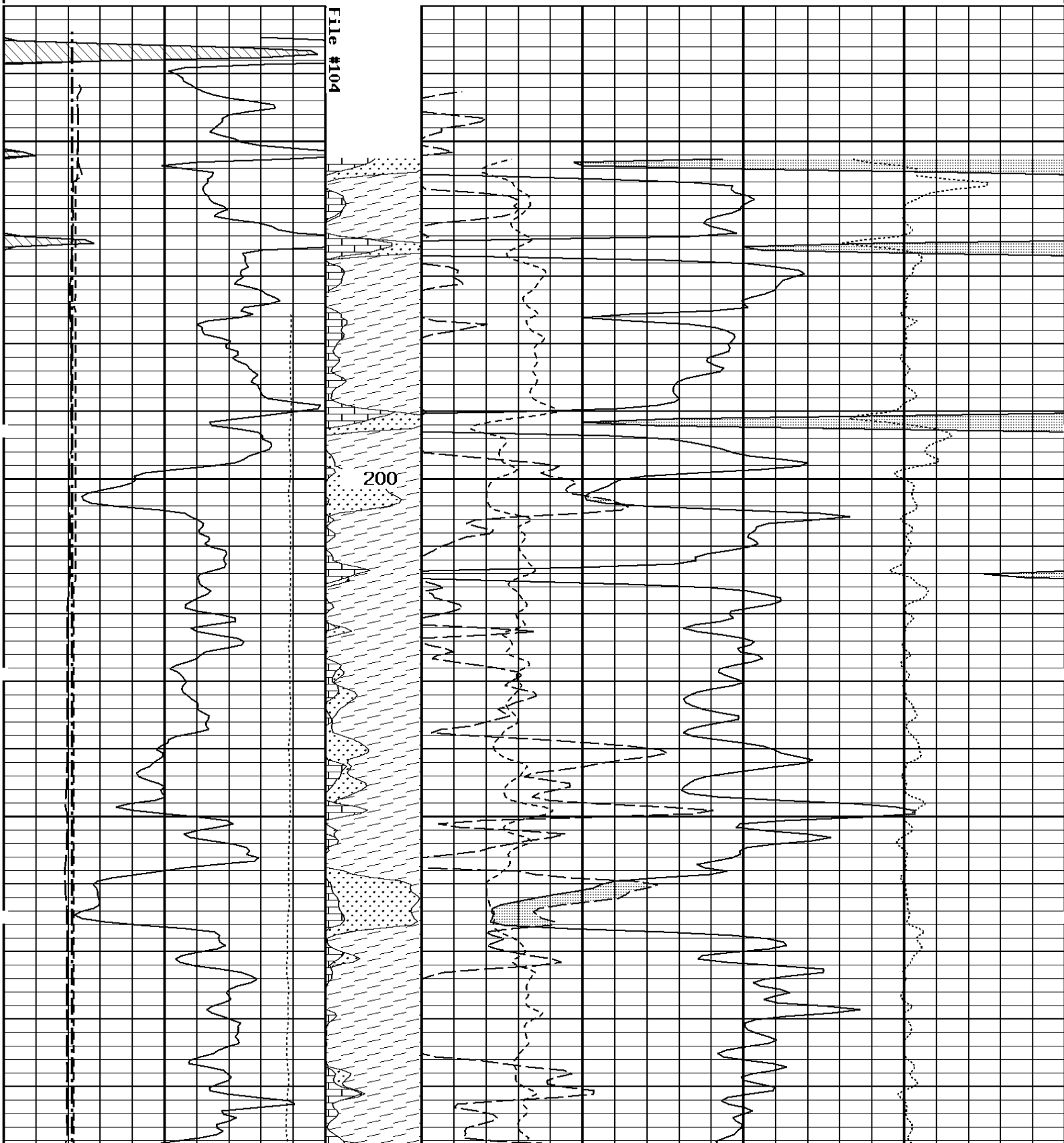
PERCENT (2.71 g/cc)

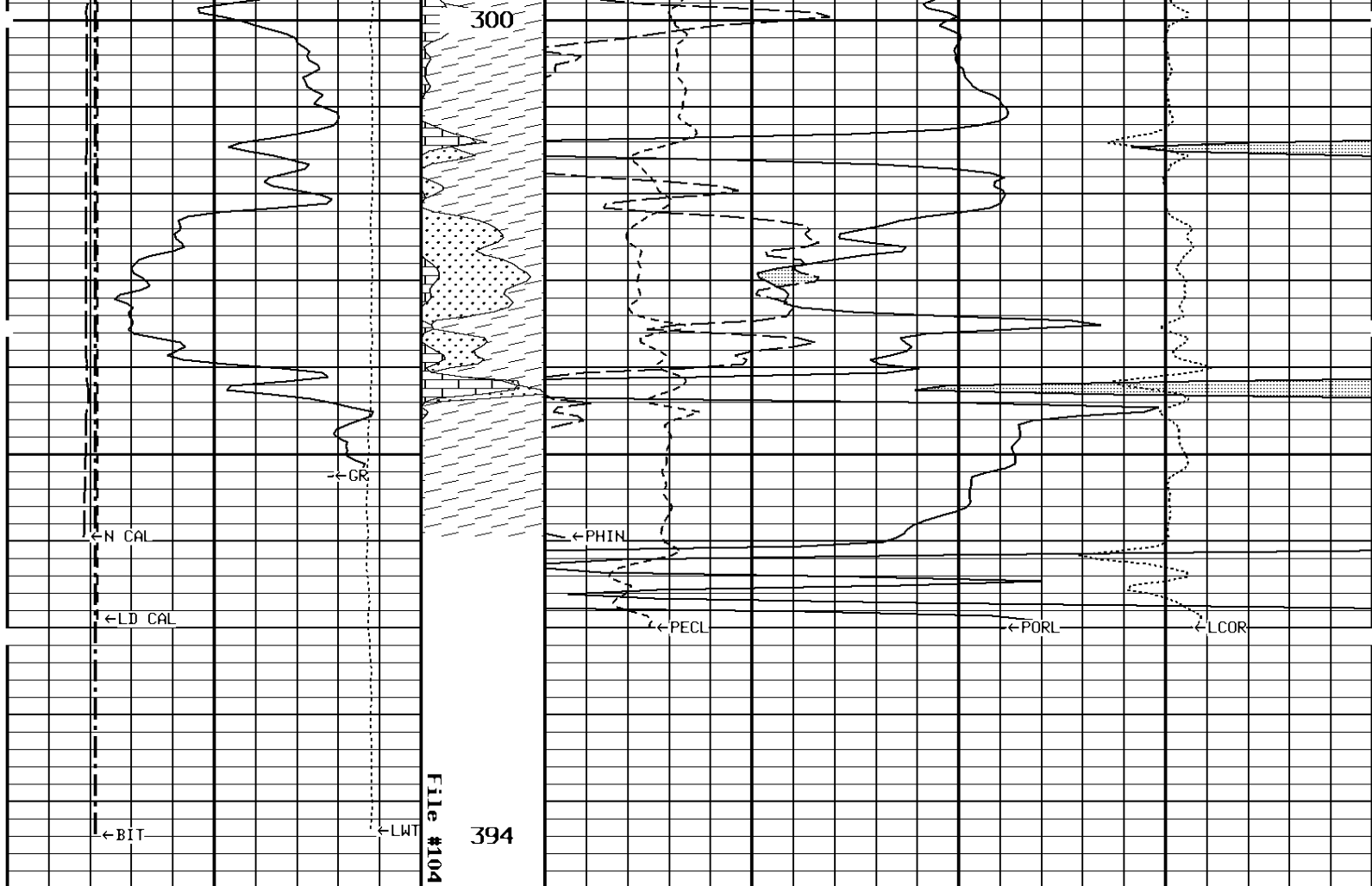
200 0 400 200

70 30

30 -10

1:240 REPEAT SECTION





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1:240 REPEAT SECTION

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

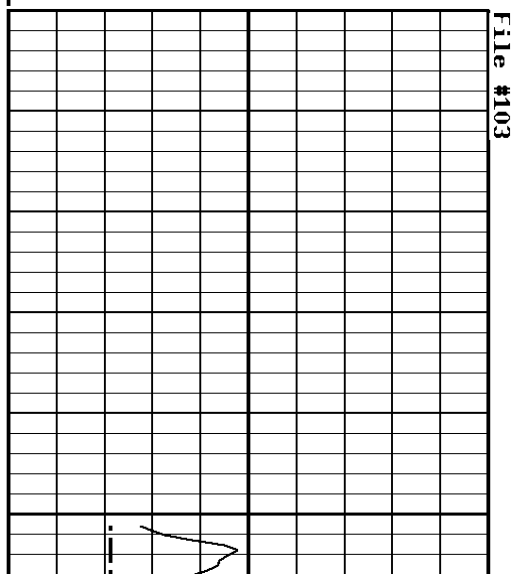
* Borehole Zone Factors *

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_____	6.125	IN
Casing Correction (PHI N)_____	Disable	

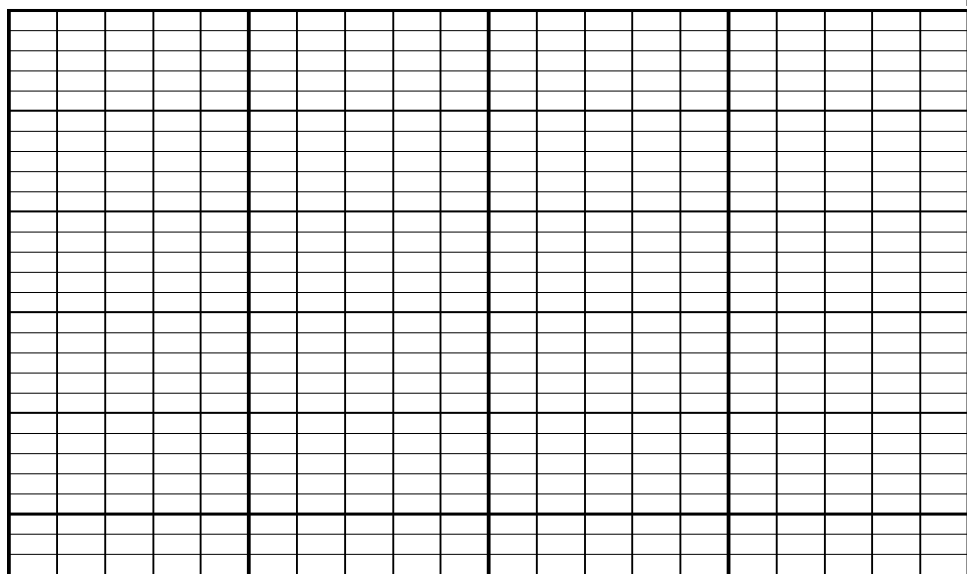
TENSION LBS	
10000	0
BIT SIZE INCHES (IN)	
4	14
DENSITY (X) CALIPER INCHES (IN)	
14	24
4	14
NEUTRON (Y) CALIPER INCHES (IN)	
14	24
4	14
GAMMA RAY API UNITS	
200	400
0	200

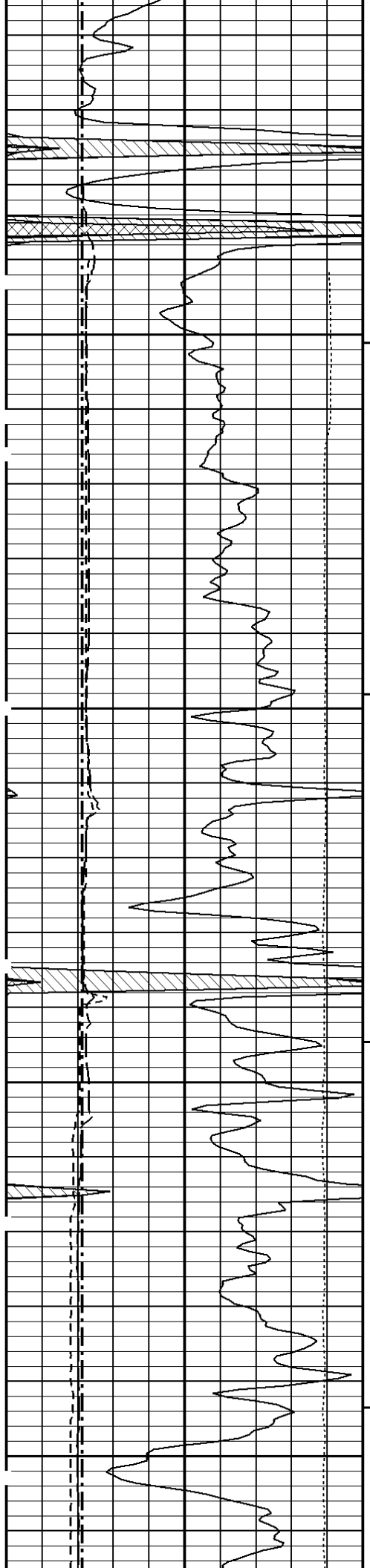
PE CROSS-SECTION BARNS/ELECTRON		DENSITY CORRECTION G/CC	
0	10	-0.25	0.25
DENSITY POROSITY PERCENT (2.71 g/cc)			
30		-10	
COMPENSATED BULK DENSITY G/CC			
3.0		4.0	
2.0		3.0	
1.0		2.0	

**1:240 MAIN SECTION
BULK DENSITY**



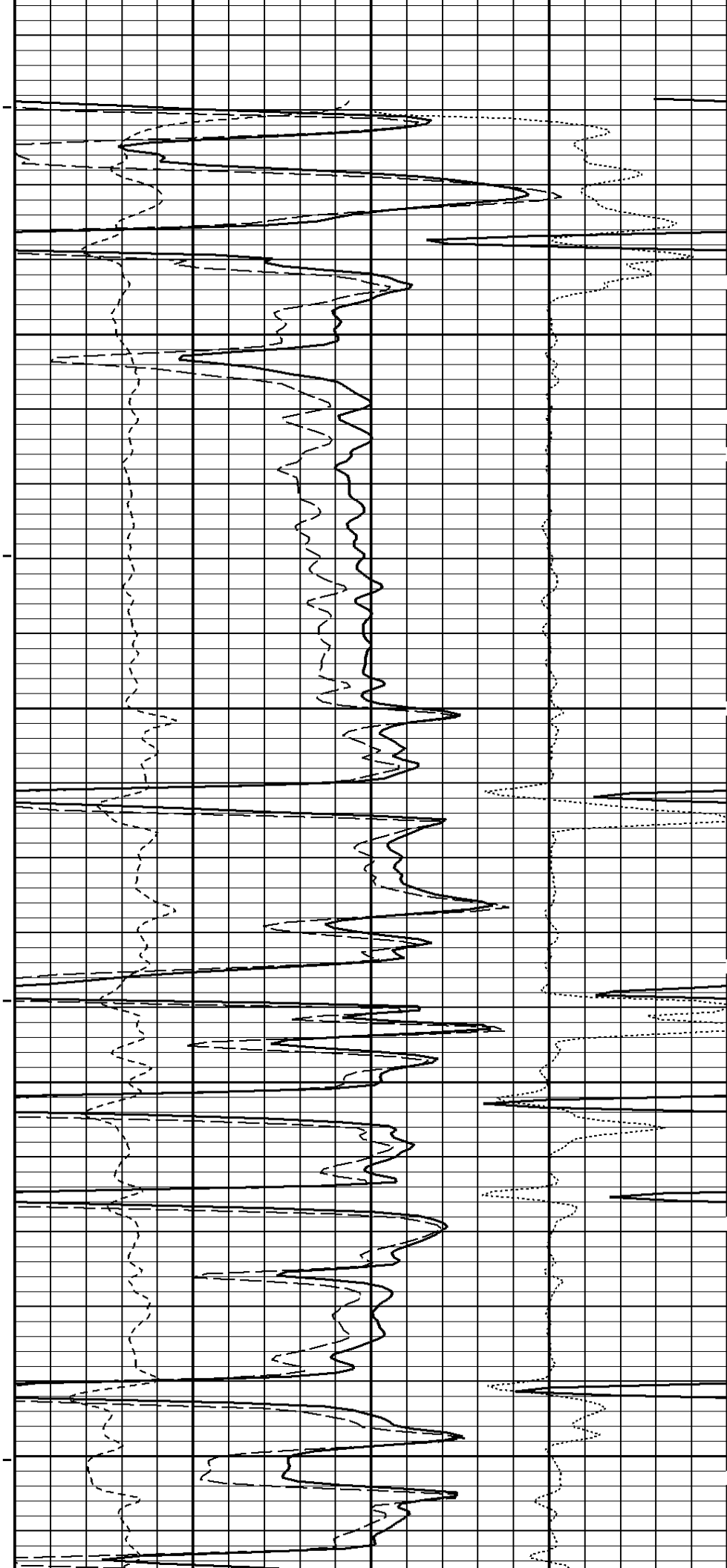
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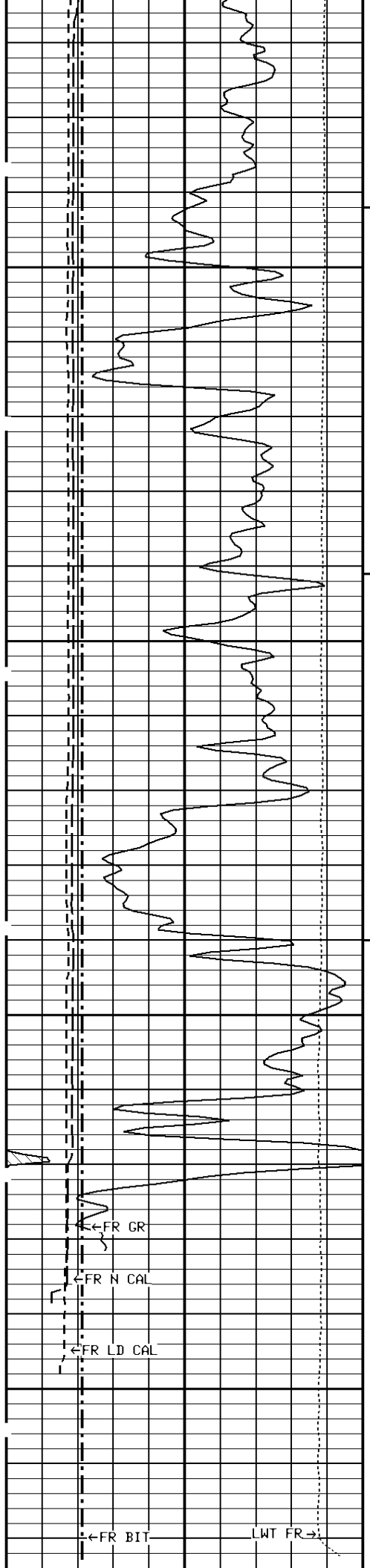




100

200

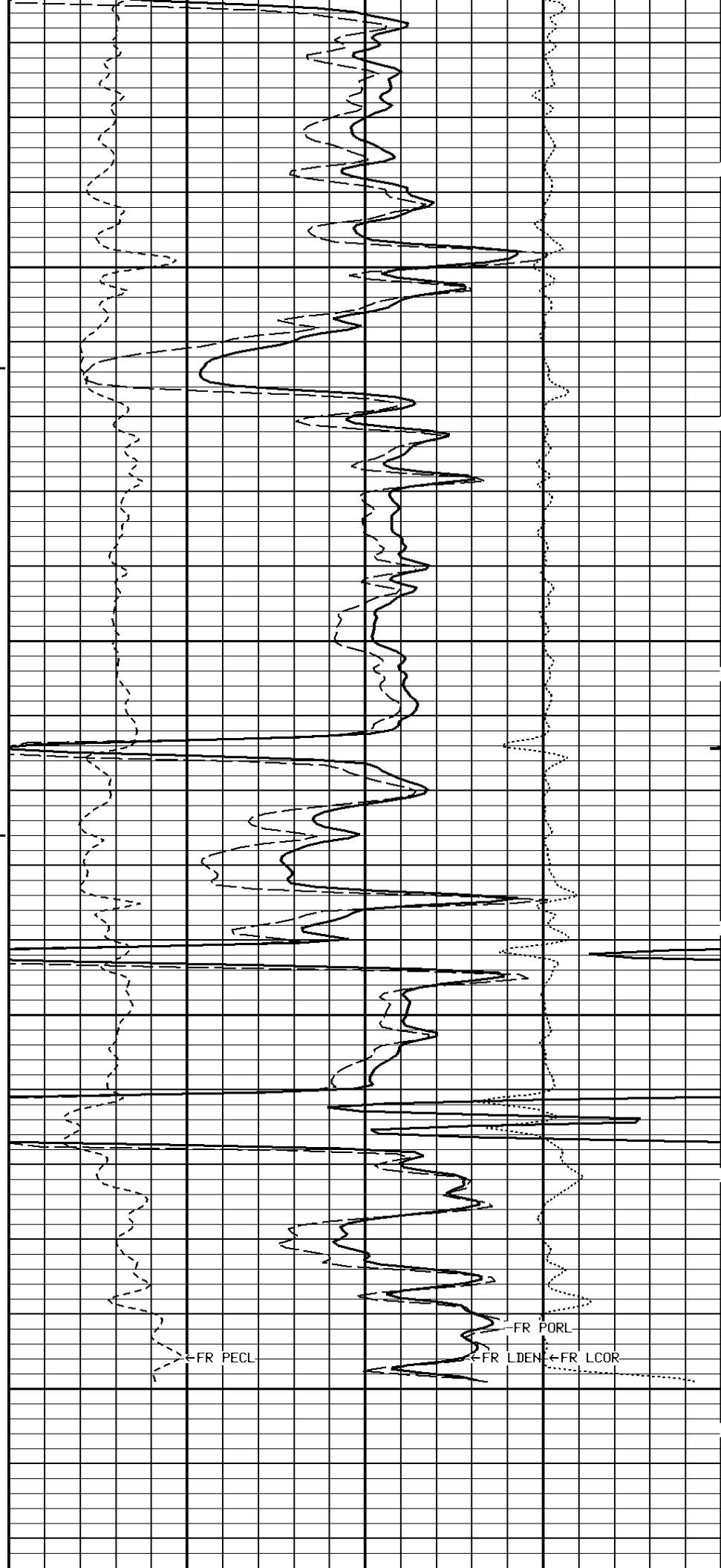




300

400

420



File #103

1:240 MAIN SECTION BULK DENSITY

GAMMA RAY API UNITS 200  400 0 200		-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) 14 24 4 14			DENSITY POROSITY PERCENT (2.71 g/cc) 30 -10	
DENSITY (X) CALIPER INCHES (IN) 14 24 4 14			PE CROSS-SECTION BARNs/ELECTRON 0 10	DENSITY CORRECTION G/CC -0.25 0.25
BIT SIZE INCHES (IN) 4 14				
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_____	6.125	IN
Casing Correction (PHI N)_____	Disable	

* Calibration Summary *

Shop Calibration					
GRTB					
Performed : 29-Apr-2010			Time : 11:02		
Sensor Suite : GR-GR5			ID : GRT-BC-41		
	Measured	Units	Calibrated	Units	
GR	Background	Jig	Jig		
	46	346	175	GRAPI	

Shop Calibration					
CNT					
Performed : 12-May-2010			Time : 12:28		
Sensor Suite : BHC NEUT			ID : CNP-AA-112		
Source ID : N-1046					
	Measured	Tank Calibrated	Verification Jig		Units
N/F	4.0700	3.6893	3.6957		
Porosity	26.7	20.5	20.6		%
Performed : 14-APR-2010			Time : 12:51		
Sensor Suite : CALI-BCN			ID : CNP-AA-112		
	Jig - Measured		Jig - Calibrated		Units
	Ring#1	Ring#2	Ring#1	Ring#2	
CL # 1	11.1	16.0	6.0	12.0	IN.
Shop Calibration					
LDTNG					
Performed : 22-APR-2010			Time : 12:36		
Sensor Suite : CALIPEL			ID : LDP-DA-066		
	Jig - Measured		Jig - Calibrated		Units
	Ring#1	Ring#2	Ring#1	Ring#2	
CL # 1	9.7	14.1	6.0	12.0	IN.
Performed : 27-May-2010			Time : 11:56		
Sensor Suite : BHCPELNG			ID : LDP-DA-066		
Source ID : 2991GW					
Short Space					
	BKGD	Al	Mg	Al+Fe	Units
LSW1	70	1178	1901	754	CPS
LSW2	72	1414	2231	1009	CPS
LSW3	279	3243	5222	2752	CPS
LSW4	344	2885	4154	2528	CPS
LSW5	33	60	69	56	CPS
LSW6	92	96	97	97	CPS
LSW7	58	63	64	64	CPS
LSW8	2	4	6	4	CPS
QS	0.227	0.208	0.205	0.205	
PES			2.778	5.967	
SSDN		2.600	1.680		G/CC
Long Space					
	BKGD	Al	Mg	Al+Fe	Units
LLW1	106	1191	4790	724	CPS
LLW2	119	2239	8759	1602	CPS
LLW3	450	4280	16149	3692	CPS
LLW4	577	2055	6532	1872	CPS
LLW5	63	74	136	72	CPS
LLW6	186	185	172	182	CPS
LLW7	115	114	111	116	CPS
LLW8	3	7	20	7	CPS
QL	0.236	0.237	0.216	0.221	
PEL			2.697	5.458	
LSDN		2.600	1.680		G/CC