

Tucker

WIRELINE SERVICES

COMPENSATED NEUTRON
PEL DENSITY LOG

File No. : TUL-55640
Company : RUNNING FOXES PETROLEUM INC.
Well : COLEMAN 6-24C INJ
Field :
County : BOURBON
State : KANSAS
Country : USA

Location : API#: 15-011-23735-00-00
400' FSL & 380' FEL
SE SE SE

Sect : 24 Twp : 24S Rge : 25E

Recorded By : B.BAILEY
Witnessed By : G.BRATTON

Date : JUN 11 2010
Run No. : 1

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

Depth--Driller : 402.0 FT
Depth--Logger : 401.0 FT
Bottom Log Interval : 378.0 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. : 122
Location : TULSA

Elevations :
KB : FT
DF : FT
GL : 859.00 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 : NATIVE
Density : 0.000 SG
Viscosity : 0.000 SEC
pH : 0.000
Fluid Loss : 0.000
Salinity : 0.000 KPPM

RM Source : MEASURED
RM : 10.000 OHMM at 82 F
RM at BHT : 10.472 OHMM at 78 F

RMF Source : CALCULATED
RMF : 8.500 OHMM at 82 F
RMF at BHT : 8.901 OHMM at 78 F

RMC Source : CALCULATED
RMC : 11.500 OHMM at 82 F

RMC :	11.500	OHMM at	82	F
RMC at BHT :	12.043	OHMM at	78	F
Max Recorded Temp. :			78	F
Time Circulation Stopped :				
Operating Rig Time, Hrs. :			2.0	

- Source Serial Numbers -

Gamma	CSV-587
Neutron	N-1044

- Sonde Serial Numbers -

GRTB	GRT-BA-14
CNT	CNP-AA-111
LDTNG	LDP-NG-02
PIT	PIT-AB-14

Casing Strings

Size (IN)	Weight (LB/FT)	Bottom (FT)
7.000	32.00	21.00

- Comments -

ALL PRESENTATIONS AS PER CUSTOMER REQUEST.

GRT, CNT, LDT, PIT RAN IN COMBINATION
 CALIPERS ORIENTED ON THE X-Y AXIS.
 PHIN IS CALIPER CORRECTED.
 2.71 G/CC USED TO CALCULATE POROSITY.
 ANNULAR HOLE VOLUME CALCULATED USING 4.500" PRODUCTION CASING.

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

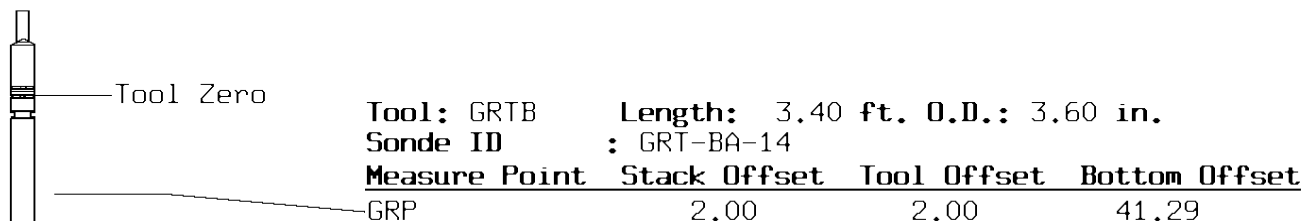
OPERATORS:

M.BURKE

THANK YOU FOR USING TUCKER WIRELINE SERVICES!

Tool String Schematic

Total Tool Length -	43.29 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-111

Source ID : N-1044

Pad ID : CNP-AA-111

Measure Point	Stack Offset	Tool Offset	Bottom Offset
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CLCN	9.40	6.00	33.89
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PHIN	10.24	6.84	33.05
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12.70 ft.

Tool: LDTNG

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

Sonde ID : LDP-NG-02

Source ID : CSV-587

Pad ID : LDP-NG-02

Measure Point	Stack Offset	Tool Offset	Bottom Offset
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CLLD	18.70	6.00	24.59
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PEL	19.70	7.00	23.59
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PES	20.10	7.40	23.19
-----	-------	------	-------

LDEN	19.70	7.00	23.59
------	-------	------	-------

LCOR	19.70	7.00	23.59
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22.00 ft.

Tool: PIT

Length: 21.29 ft. O.D.: 3.62 in.

Sonde ID : PIT-AB-14

Measure Point	Stack Offset	Tool Offset	Bottom Offset
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ILD	30.92	8.92	12.37
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ILM	32.10	10.10	11.20
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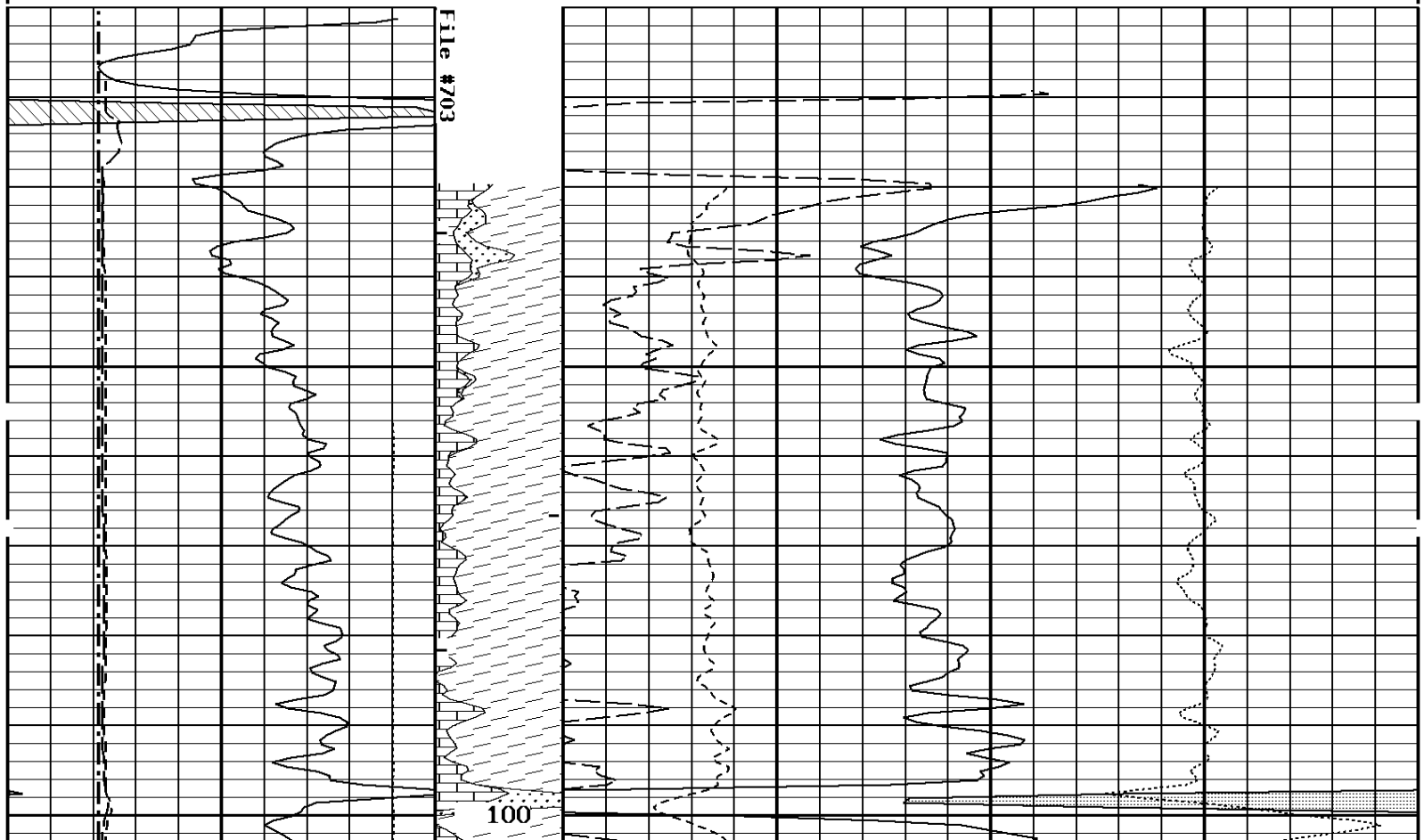
SFLU	39.49	17.49	3.81
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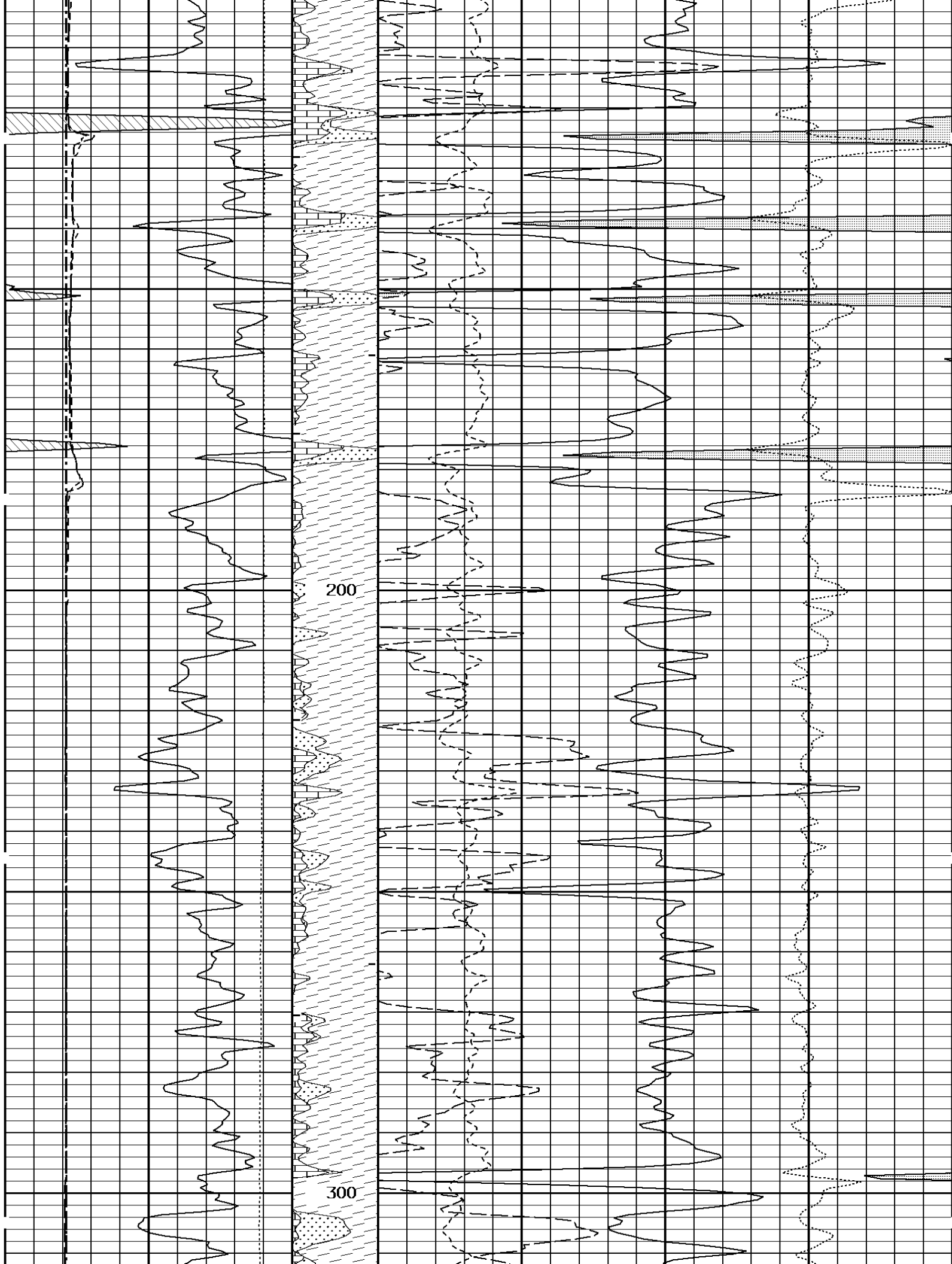
SP	42.60	20.60	0.69
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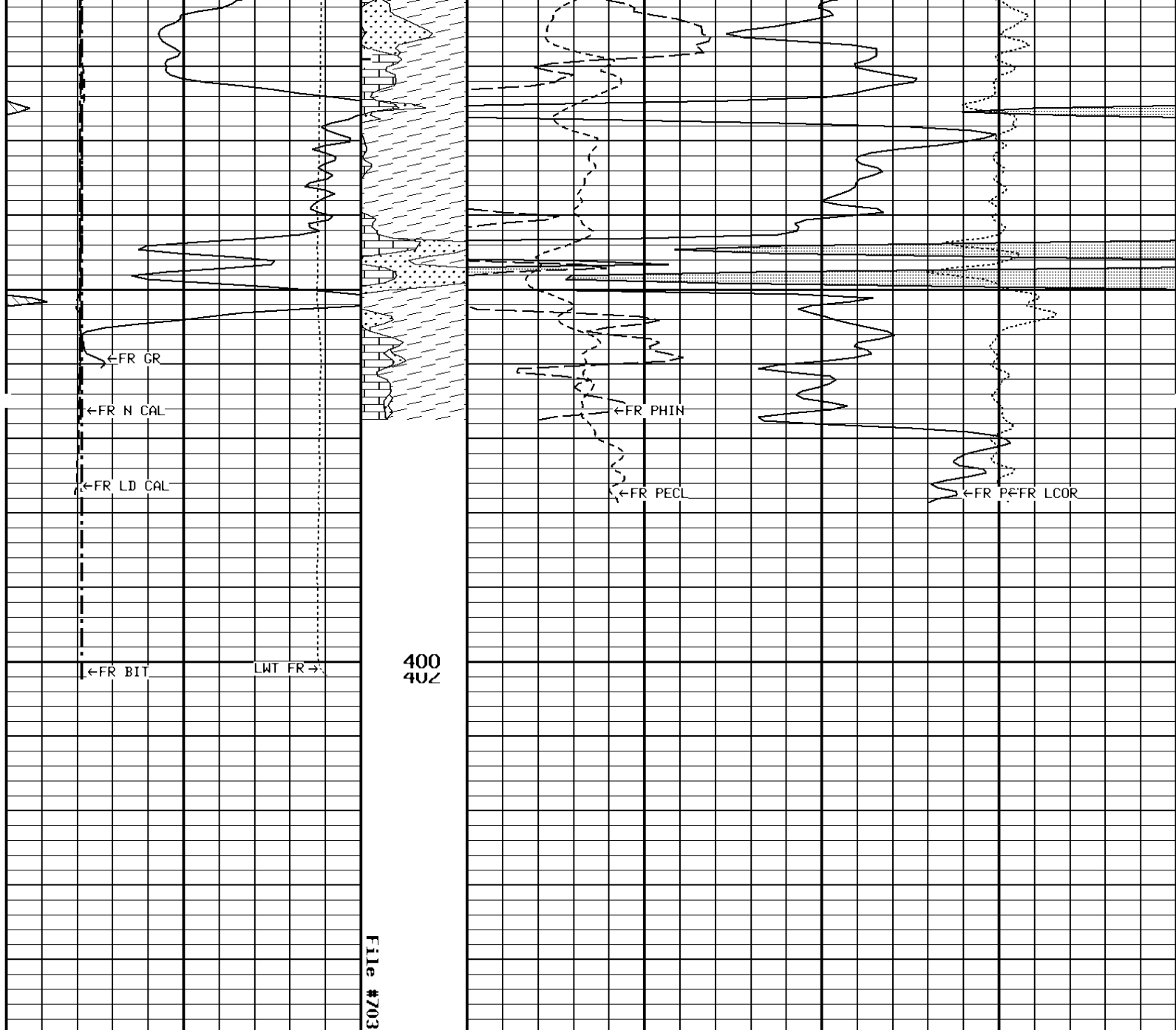
LWT 43.29 ft.

TENSION LBS					
10000	0				
BIT SIZE INCHES (IN)		Volume Quartz			
4	14				
DENSITY (X) CALIPER INCHES (IN)		Volume Calcite	PE CROSS-SECTION BARNs/ELECTRON	DENSITY CORRECTION G/CC	
14	24				
4	14		0	10	-0.25
NEUTRON (Y) CALIPER INCHES (IN)		Volume Dolo/Shale	NEUTRON POROSITY PERCENT (LIMESTONE MATRIX)		
14	24				
4	14		30		-10
GAMMA RAY API UNITS		-BHV AHV- CU.FT	DENSITY POROSITY PERCENT (2.71 g/cc)		
200	400		70		30
0	200		30		-10
			-10		-50

1:240 MAIN SECTION







1:240 MAIN SECTION

GAMMA RAY API UNITS 200 0 400 200	-BHV AHV- CU.FT	DENSITY POROSITY PERCENT (2.71 g/cc) 70 30 -10 -50	
NEUTRON (Y) CALIPER INCHES (IN) 14 4 24 14	Volume Dolo/Shale 30	NEUTRON POROSITY PERCENT (LIMESTONE MATRIX) -10	
DENSITY (X) CALIPER INCHES (IN) 14 24	Volume Calcite	PE CROSS-SECTION BARNS/ELECTRON	DENSITY CORRECTION G/CC

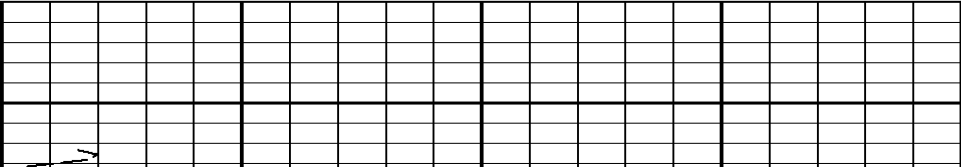
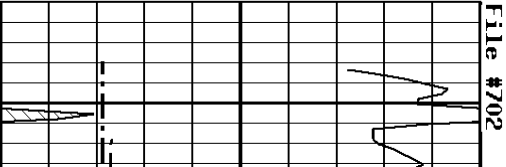
4	14		0	10	-0.25	0.25
BIT SIZE INCHES (IN)		Volume Quartz				
4	14					
TENSION LBS						
10000	0					

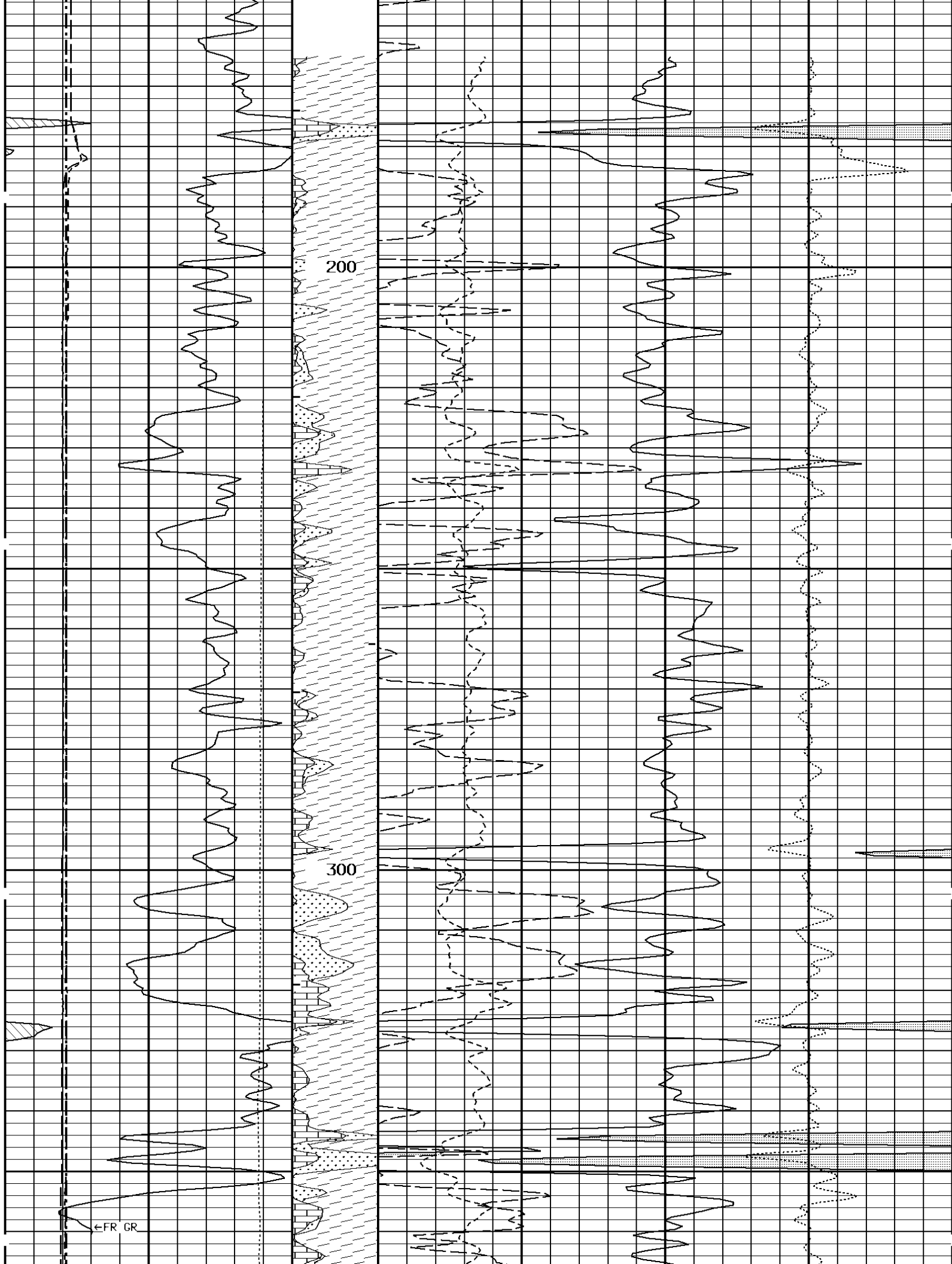
* Borehole Zone Factors *

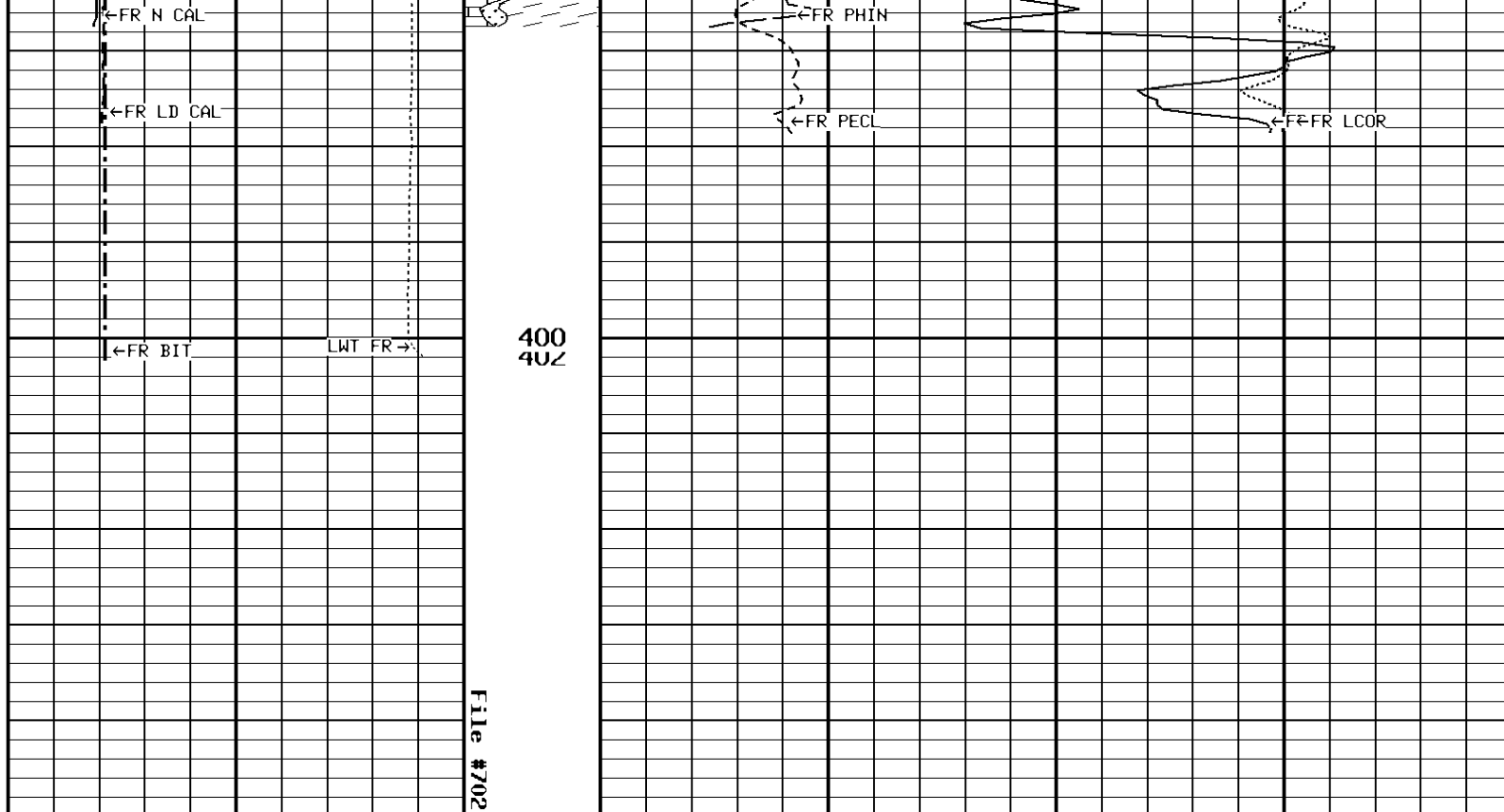
Zone 1 99999.0 to 0.0 F		
Matrix Density	2.71	G/C3
Fluid Density	1.00	G/C3
Formation Matrix	Limestone	
Drill Bit Size	6.125	IN
Production Casing Diameter	4.500	IN
Casing Correction (PHI N)	Disable	

TENSION LBS					
10000	0				
BIT SIZE INCHES (IN)		Volume Quartz			
4	14				
DENSITY (X) CALIPER INCHES (IN)		Volume Calcite	PE CROSS-SECTION BARNES/ELECTRON	DENSITY CORRECTION G/CC	
14	24		0	10	-0.25
4	14		0.25		
NEUTRON (Y) CALIPER INCHES (IN)		Volume Dolo/Shale	NEUTRON POROSITY PERCENT (LIMESTONE MATRIX)		
14	24		30		
4	14		-10		
GAMMA RAY API UNITS		-BHV AHV- CU.FT	DENSITY POROSITY PERCENT (2.71 g/cc)		
200	400		70	30	
0	200		30	-10	
			-10	-50	

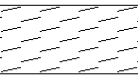
1:240 REPEAT SECTION

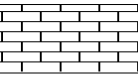


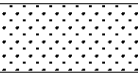




1:240 REPEAT SECTION

GAMMA RAY API UNITS		-BHV AHV- CU.FT	DENSITY POROSITY PERCENT (2.71 g/cc)	
200 0	 400 200		70 30 -10	30 -10 -50
NEUTRON (Y) CALIPER INCHES (IN)		Volume Dolo/Shale	NEUTRON POROSITY PERCENT (LIMESTONE MATRIX)	
14 4	24 14		30	-10

DENSITY (X) CALIPER INCHES (IN)		Volume Calcite	PE CROSS-SECTION BARNS/ELECTRON	DENSITY CORRECTION G/CC
14 4	24 14		010	-0.250.25

BIT SIZE INCHES (IN)		Volume Quartz		
4	14			

TENSION LBS				
10000	0	-----		

* Borehole Zone Factors *

Zone 1 99999.0 to 0.0 F

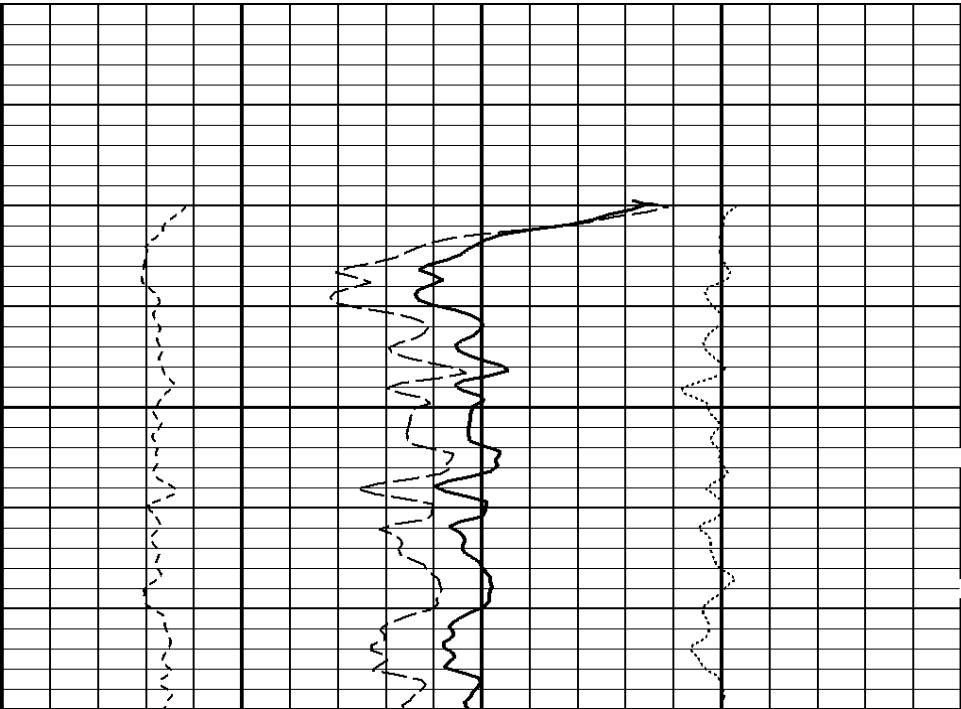
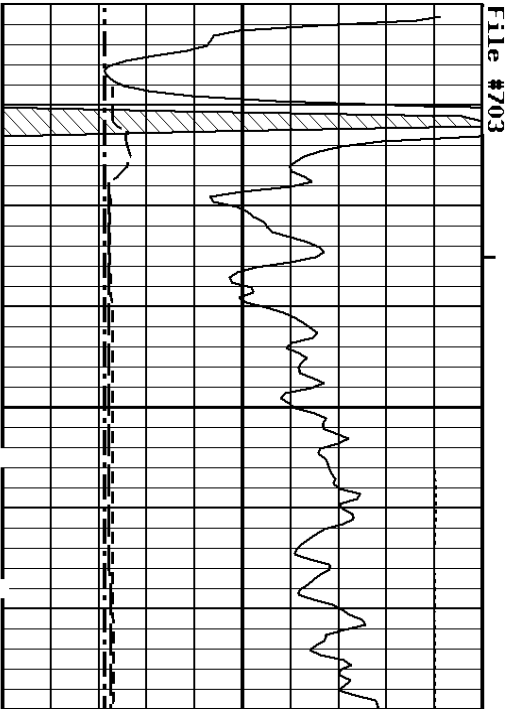
Matrix Density_____	2.71	G/C3
Fluid Density_____	1.00	G/C3
Formation Matrix_____	Limestone	
Drill Bit Size_____	6.125	IN
Production Casing Diameter_____	4.500	IN
Casing Correction (PHI N)_____	Disable	

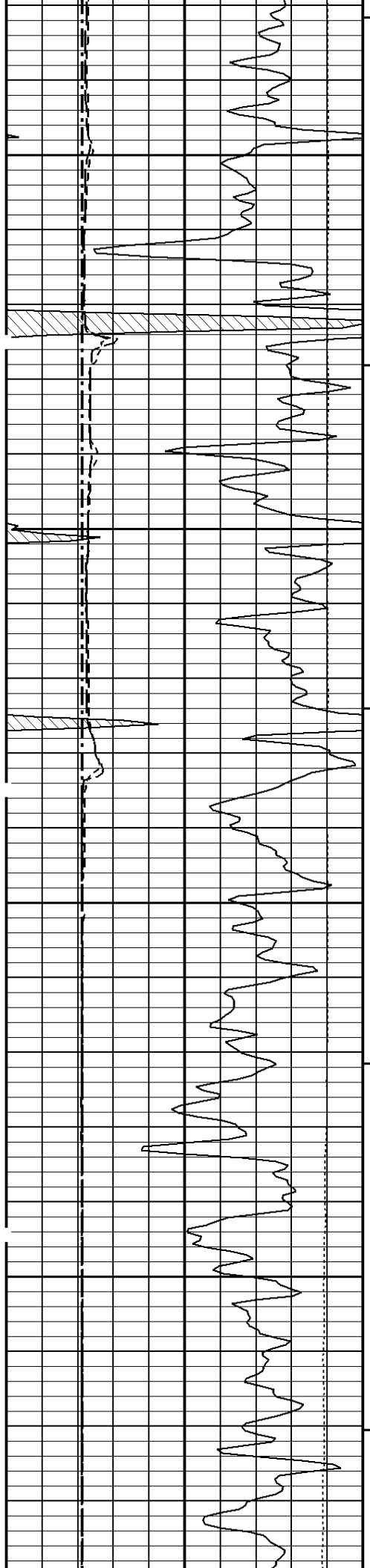
TENSION LBS	
10000	0
BIT SIZE INCHES (IN)	
4	14
DENSITY (X) CALIPER INCHES (IN)	
14	24
4	14
NEUTRON (Y) CALIPER INCHES (IN)	
14	24
4	14
GAMMA RAY API UNITS	
200	400
0	200

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

1:240 MAIN SECTION

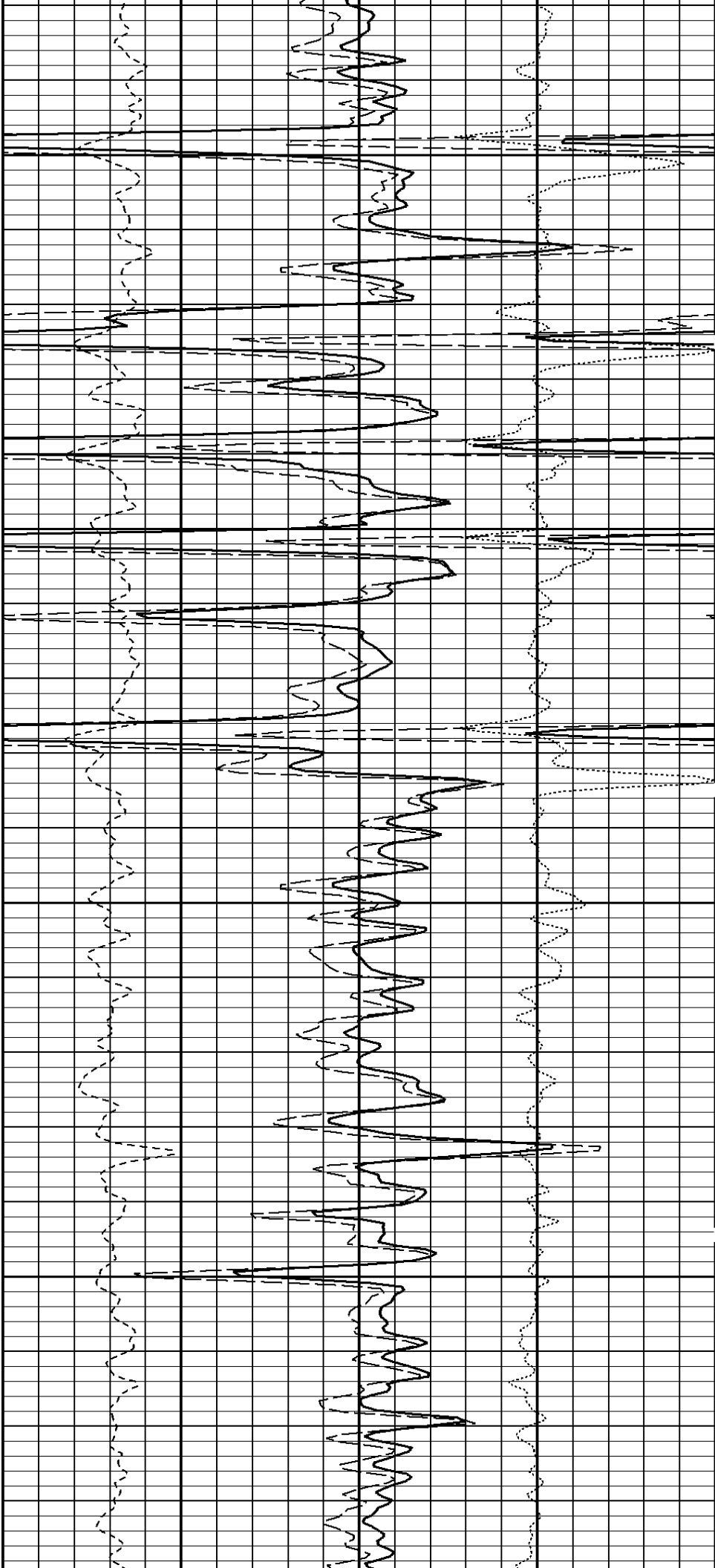
BULK DENSITY

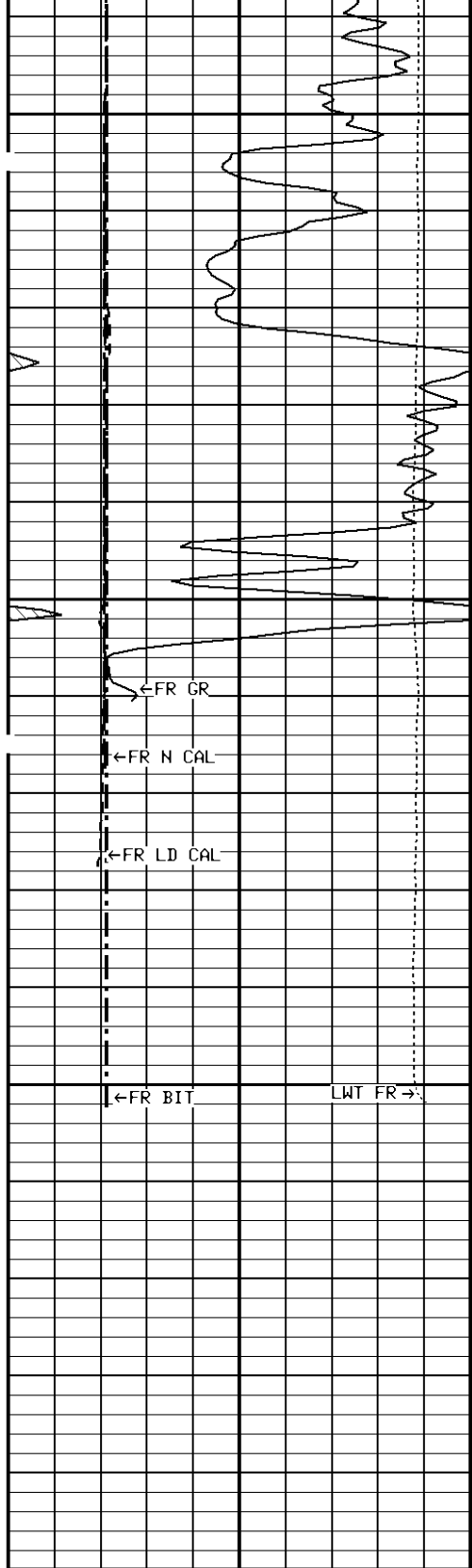




100

200



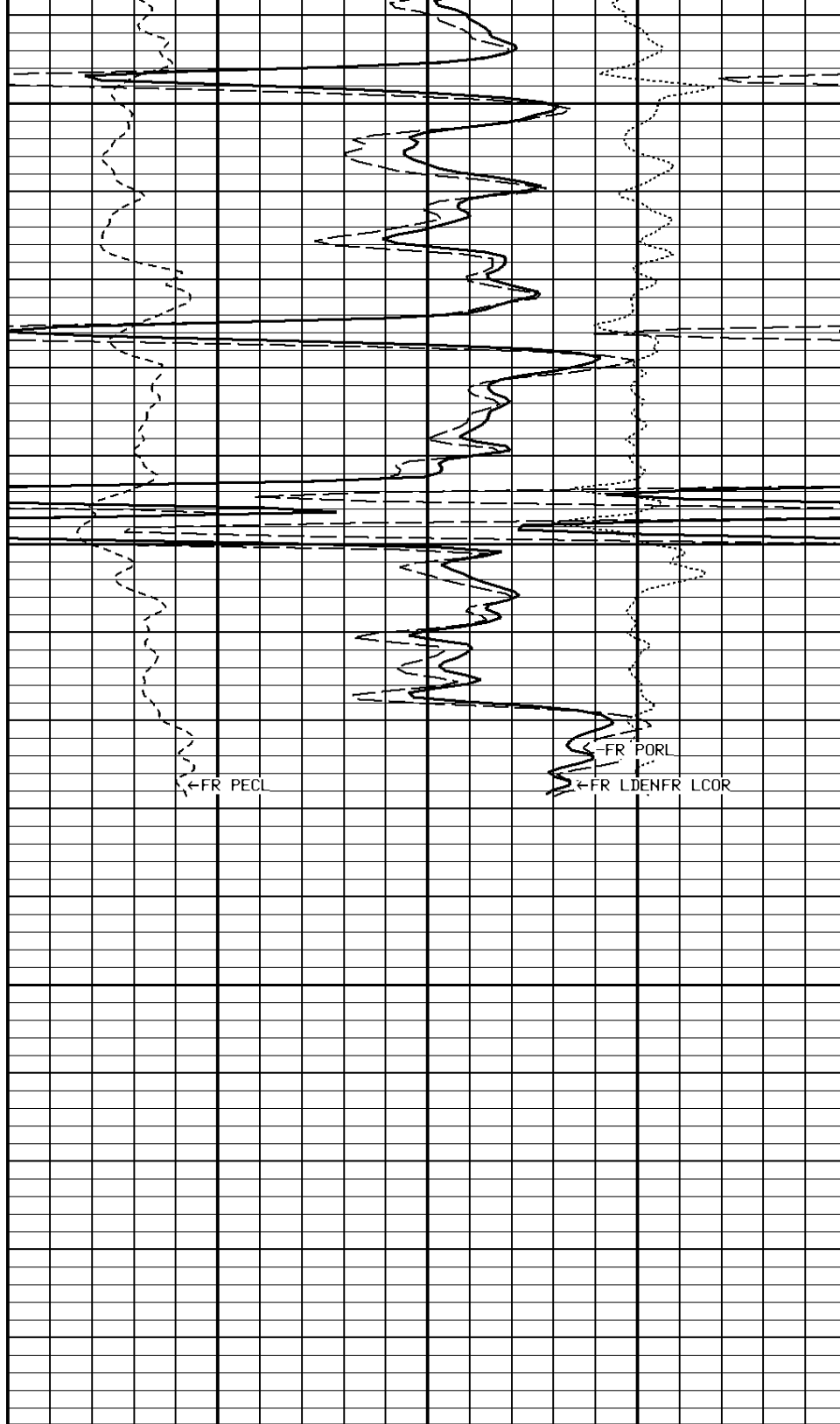


300

400
40Z

File #703

1:240 MAIN SECTION BULK DENSITY



GAMMA RAY API UNITS 200 0 400 200	-BHV BHV- CU.FT	COMPENSATED BULK DENSITY G/CC 3.0 2.0 1.0 4.0 3.0 2.0	
NEUTRON (Y) CALIPER INCHES (mm)		DENSITY POROSITY PERCENT (g/cc)	

CL # 1	Jig - Measured		Jig - Calibrated		Units
	Ring#1	Ring#2	Ring#1	Ring#2	
	6.9	12.9	6.0	12.0	IN.
Performed : 05-May-2010 Time : 09:47 Sensor Suite : BHCPELNG ID : LDP-NG-02 Source ID : CSV-587					
Short Space					
	BKGD	Al	Mg	Al+Fe	Units
LSW1	71	482	772	323	CPS
LSW2	73	584	933	417	CPS
LSW3	292	1457	2281	1232	CPS
LSW4	370	1392	1931	1232	CPS
LSW5	35	45	46	44	CPS
LSW6	96	97	97	98	CPS
LSW7	60	62	61	61	CPS
LSW8	2	3	3	3	CPS
QS	0.231	0.220	0.228	0.233	
PES			2.778	5.967	
SSDN		2.600	1.680		G/CC
Long Space					
	BKGD	Al	Mg	Al+Fe	Units
LLW1	109	629	2543	392	CPS
LLW2	123	1084	4422	784	CPS
LLW3	456	2105	7702	1817	CPS
LLW4	600	1229	3164	1132	CPS
LLW5	66	71	87	70	CPS
LLW6	197	190	184	191	CPS
LLW7	119	122	116	121	CPS
LLW8	3	5	10	5	CPS
QL	0.247	0.218	0.227	0.224	
PEL			2.697	5.458	
LSDN		2.600	1.680		G/CC