

Tucker

WIRELINE SERVICES

COMPENSATED NEUTRON PEL DENSITY LOG

Company RUNNING FOXES PETROLEUM Well PAYNE 10-33B-3 Field WILDCAT County BOURBON State OKLAHOMA Country USA API No. 15-011-23774-00-00		File No : TUL-55984 Company : RUNNING FOXES PETROLEUM INC Well : PAYNE 10-33B-3 Field : WILDCAT County : BOURBON State : OKLAHOMA Country : USA API No : 15-011-23774-00-00	
Location : 2040' FSL & 2430' FEL SW NW NW SE		LSD :	Sect : 33 Twp : 23S Rge : 25E
Permanent Datum:	GL	Elevations:	
Drilling Measured From:	GL	KB 0.00	Services:
Log Measured From:	GL	DF 0.00	CNT
Above Permanent Datum:	0.00 Ft	GL 791.00	LDT
Date	2011-10-12		
Run Number	1		
Depth--Driller	465.0	Ft	
Depth--Logger	462.0	Ft	
First Reading	462.0	Ft	
Last Reading	20.0	Ft	
Casing--Driller	20.0	Ft	
Casing--Logger	20.0	Ft	
Bit Size	6.750	In	
Casing Size	8.625	In	
Hole Fluid Type	NATIVE/FRESH		
Density	0.0 LBS/GAL		
Fluid Loss	0.0 CC		
PH/Viscosity	0.0 SEC		
Sample Source	CALCULATED		
RMF@Measured Temp.	2.000 @ 79 F		
RMF@Measured Temp	1.800 @ 79 F		
RMF@Measured Temp.	2.200 @ 79 F		
Source RMF/RMC			
RM@BHT	2.000 @ 79 F		
Time Circulation Stopped	2011-10-12 13:00		
Max Recorded Temp.	79 F		
Equipment/Base	TRK 127 TULSA		
Recorded By	B.BAILEY		
Witnessed By	C.COUNTS		

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)
6.750	20.00	8.625	32.00	20.00

Run Number	1	
Date	2011-10-12	
Date/Time On Bottom	2011-10-12 19:15	
Depth to Fluid	0.0 Ft	
Salinity	0.000 PPM	
RMF@BHT	1.800 @ 79 F	
RMC@BHT	2.200 @ 79 F	

Run Number 1

Comments

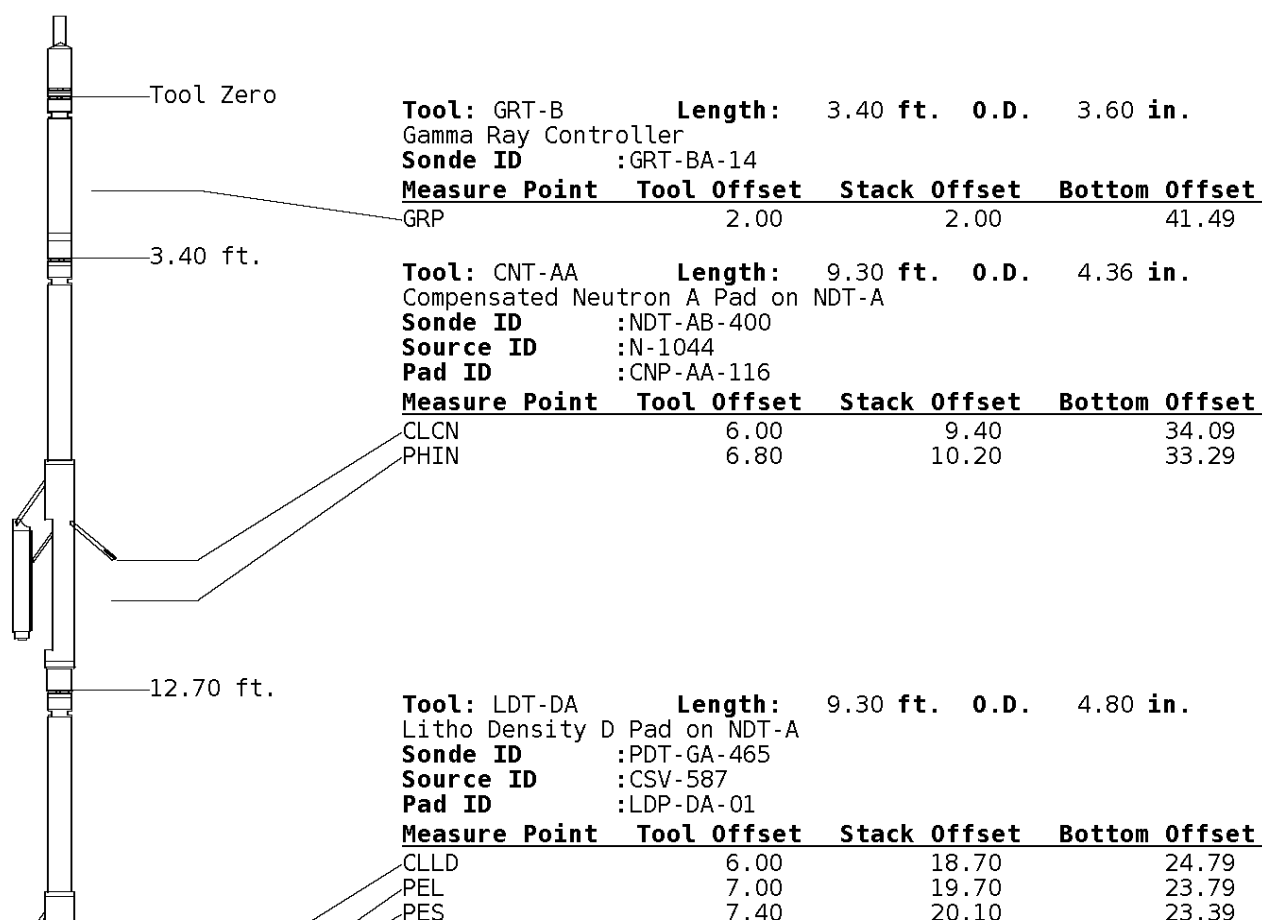
ALL PRESENTATIONS AS PER CUSTOMER REQUEST
 GRT, CNT, LDT, MLT AND PIT RUN IN COMBINATION.
 CALIPERS ORIENTED ON X-Y AXIS.
 2.71 G/CC USED TO CALCULATED POROSITY.
 ANNULAR HOLE VOLUME CALCULATED UISING 4.500" PRODUCTION CASING.

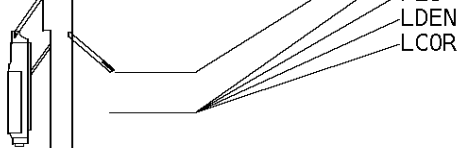
GRT: GRP.
 CNT: PHIN, CLCNIN
 LDT: PORL, LCORN, PECLN, LDENN, PORLLS, CLLDIN.
 MLT: NOR_R, INV_R, MSCLPIN.
 PIT: ILD, ILM, SPU, SFLAEC

OPERATORS:
 JT
 M.BURKE

Tool String Schematic

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





7.20	19.90	23.59
7.20	19.90	23.59

22.00 ft.

Tool: PIT-CA Length: 21.49 ft. O.D. 3.62 in.
Phased Dual Induction w/ RM & D
Sonde ID :PIT-AB-18

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

LWT 43.49 ft.

Well File:RFP PAYNE 10-33B-3 OCT12_ST

Scale: 1:240

Segment: V1.D1.S6 Splice main

Acquired: Not Available

Reference: 0

Processed: Not Available

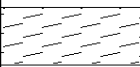
TENSION
LBS

10000 0

BIT SIZE
INCHES (IN)

4 14

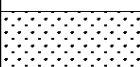
Volume
Dolo/Shale



DENSITY (X) CALIPER
INCHES (IN)

14 24
4 14

Volume
Quartz



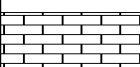
PE CROSS-SECTION
BARNs/ELECTRON

0 10 -0.25 0.25

NEUTRON (Y) CALIPER
INCHES (IN)

14 24
4 14

Volume
Calcite



NEUTRON POROSITY
PERCENT (LIMESTONE MATRIX)

30 -10

GAMMA RAY
API UNITS

200 400
0 200

- BHV AHV -
CU. FT

70 30
30 -10
-10 -50

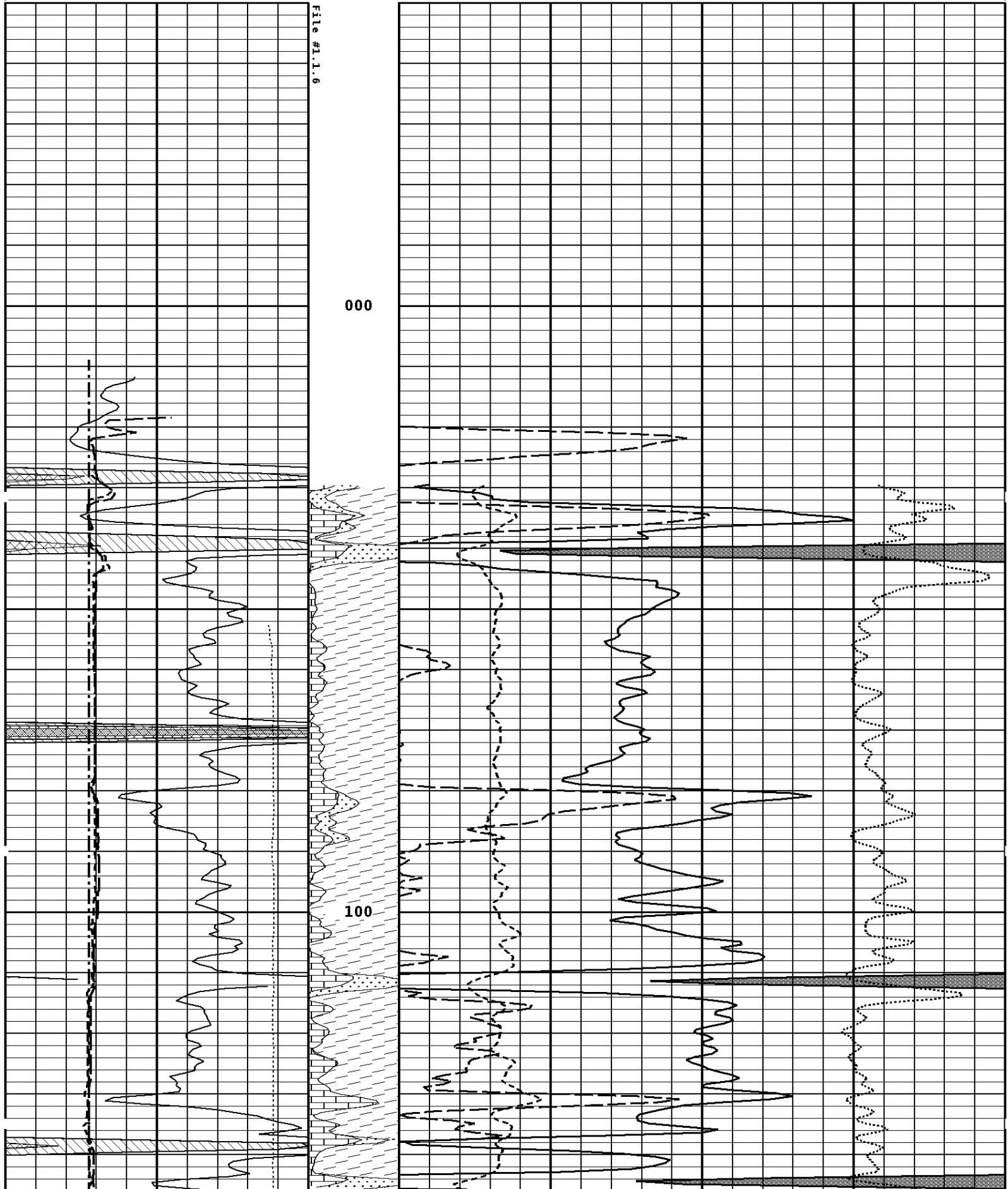
DENSITY POROSITY
PERCENT (2.71 g/cc)

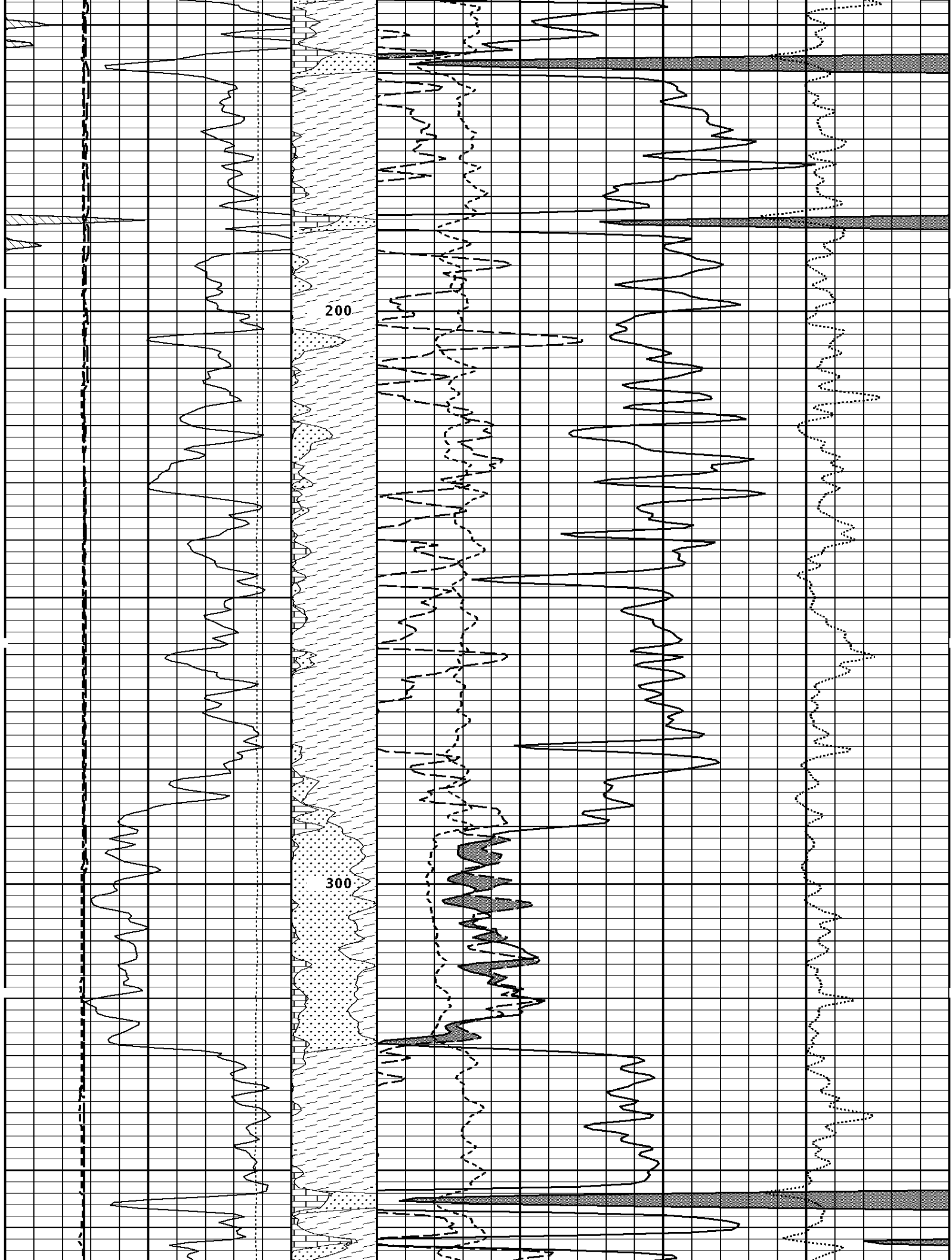
1:240 MAIN SECTION

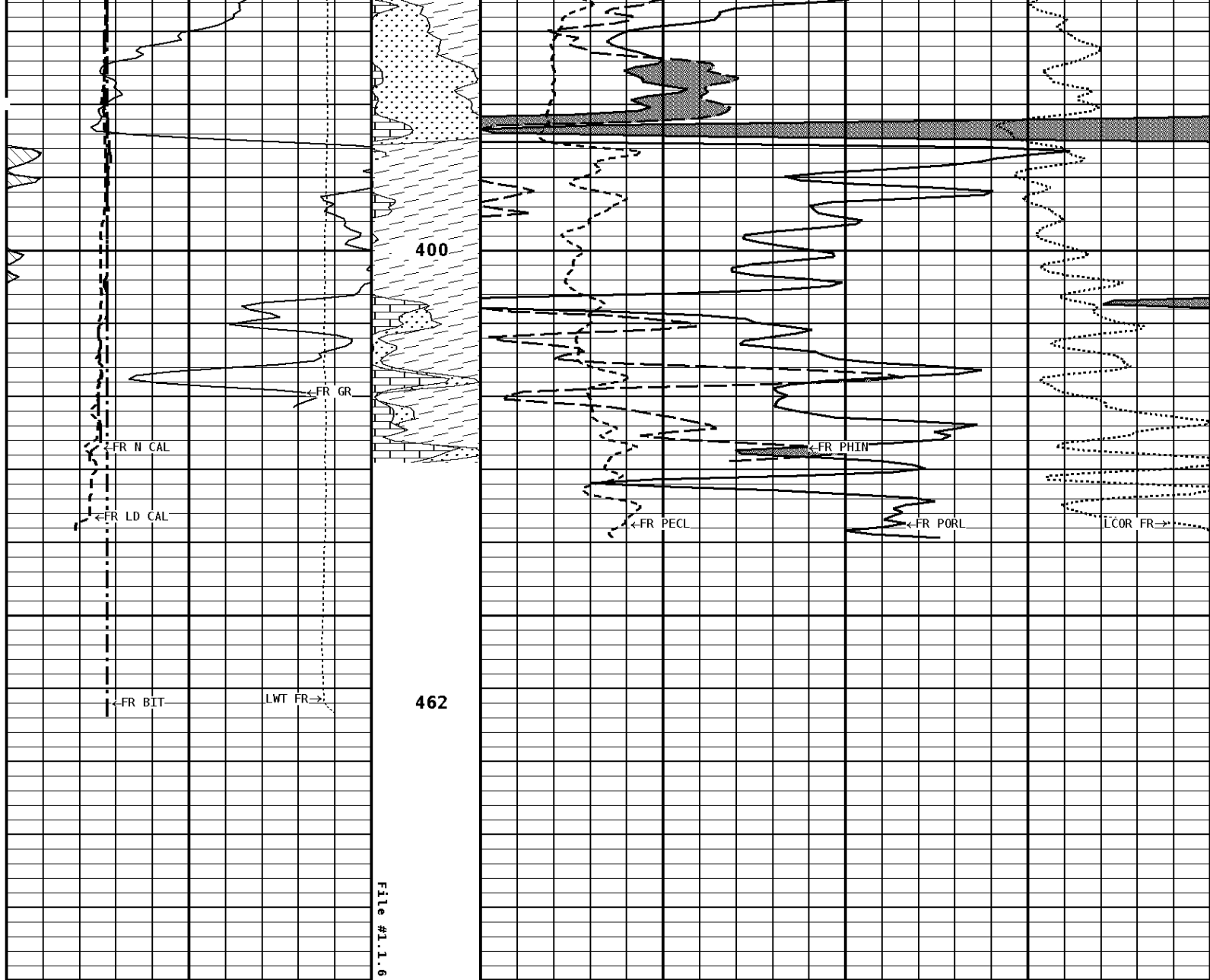
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000

100







1:240 MAIN SECTION

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

LBS

10000

0

* Borehole Zone Factors *

Zone 1 99999.0 to 0.0 Feet

Drill Bit Size	6.750 in
Casing Diameter	4.500 in
Casing Correction (PHI N)	Disable
Fluid Density	1.00 g/cc
Matrix Density	2.71 g/cc
Formation Matrix	Limestone

Well File: RFP PAYNE 10-33B-3 OCT12 ST

Scale: 1:240

Segment: V1.D1.S3 Reprocess REPEAT

Acquired: 2011-10/12 19:08 3.2.0-10220

Reference: 0

Processed: 2011-10/12 19:13 3.2.0-10220

TENSION
LBS

10000

0

BIT SIZE
INCHES (IN)

4

14

Volume
Dolo/ShaleDENSITY (X) CALIPER
INCHES (IN)14
424
14Volume
QuartzPE CROSS-SECTION
BARNES/ELECTRONDENSITY CORRECTION
G/CC

0

10

-0.25

0.25

NEUTRON (Y) CALIPER
INCHES (IN)14
424
14Volume
CalciteNEUTRON POROSITY
PERCENT (LIMESTONE MATRIX)

30

-10

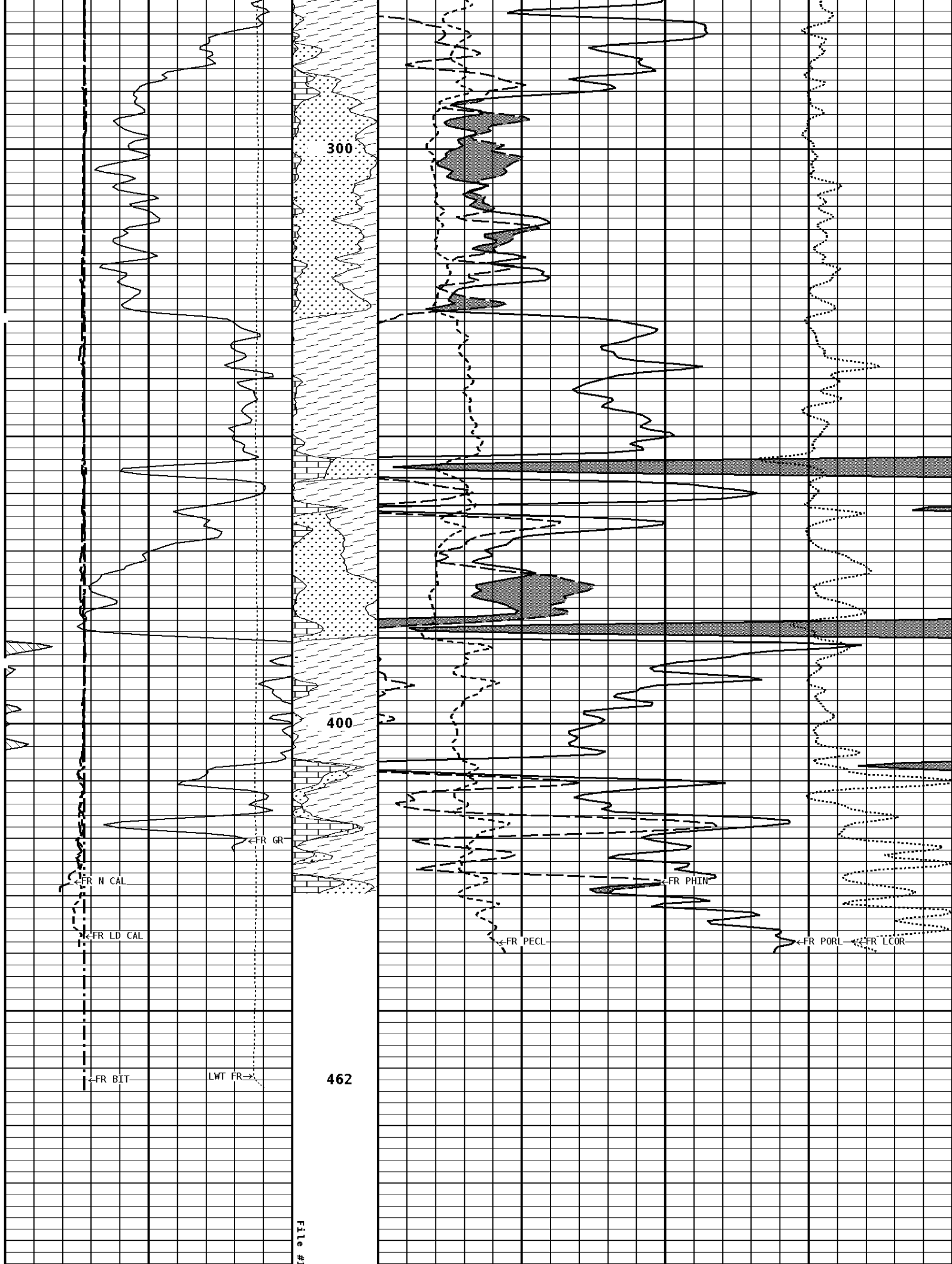
GAMMA RAY
API UNITS200
070
3030
-10- BHV AHV -
CU. FTDENSITY POROSITY
PERCENT (2.71 g/cc)

-10

-50

1:240 REPEAT SECTION

File #1.1.3



300

400

462

File #1

FR N CAL

FR LD CAL

FR BIT

FR GR

LWT FR

FR PHIN

FR PECL

FR PORL

FR LCOR

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	30 -10
			-10	-50
NEUTRON (Y) CALIPER INCHES (IN)		Volume Calcite	NEUTRON POROSITY PERCENT (LIMESTONE MATRIX)	
14 4	24 14		30	-10
DENSITY (X) CALIPER INCHES (IN)		Volume Quartz	PE CROSS-SECTION BARNs/ELECTRON	DENSITY CORRECTION G/CC
14 4	24 14		010	-0.250.25
BIT SIZE INCHES (IN)		Volume Dolo/Shale		
4	14			
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	_____	6.750	in
Casing Diameter	_____	4.500	in
Casing Correction (PHI N)	_____	Disable	

Well File: RFP_PAYNE_10-33B-3_OCT12_ST	Scale: 1:240
Segment: V1.D1.S6 Splice main	Acquired: Not Available
Reference: 0	Processed: Not Available

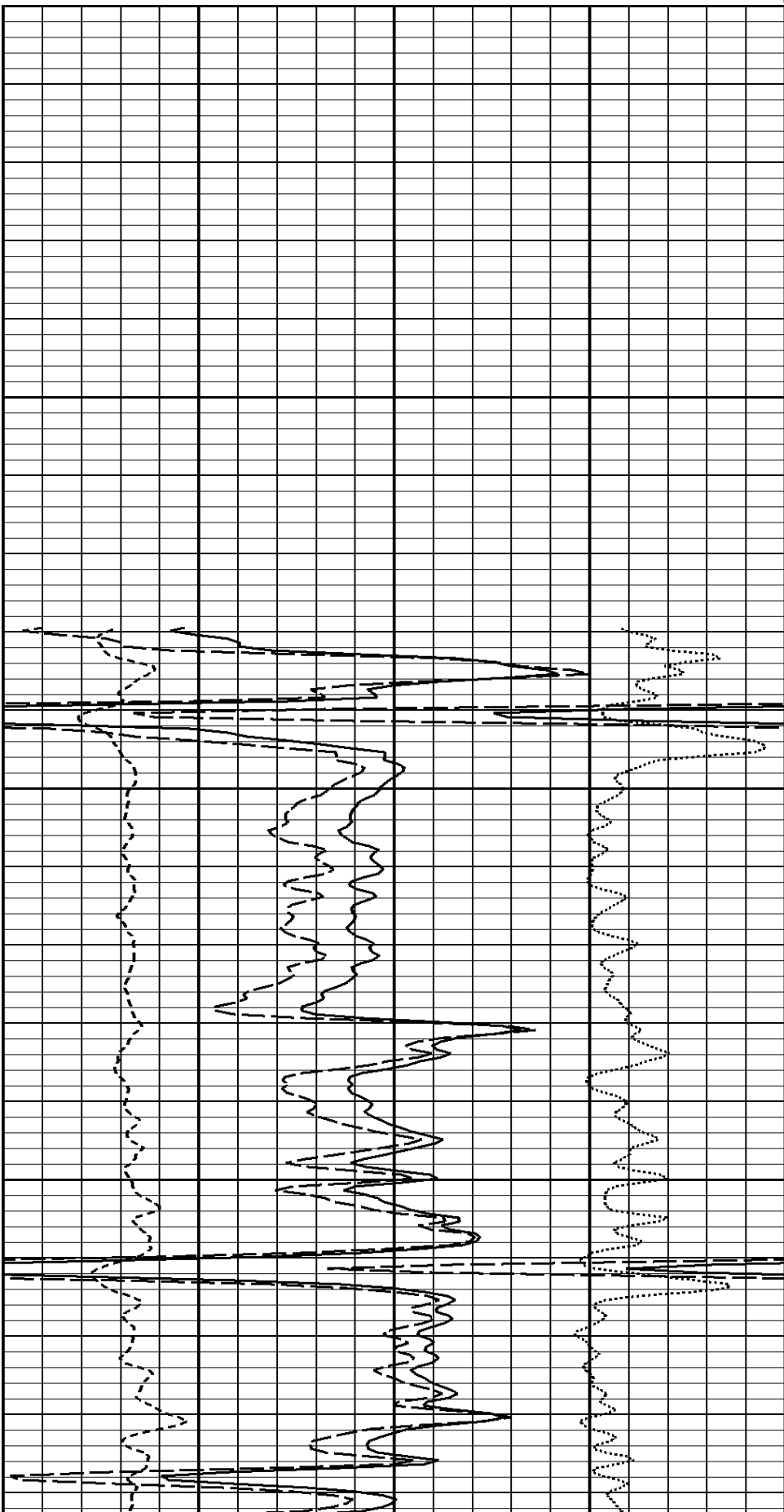
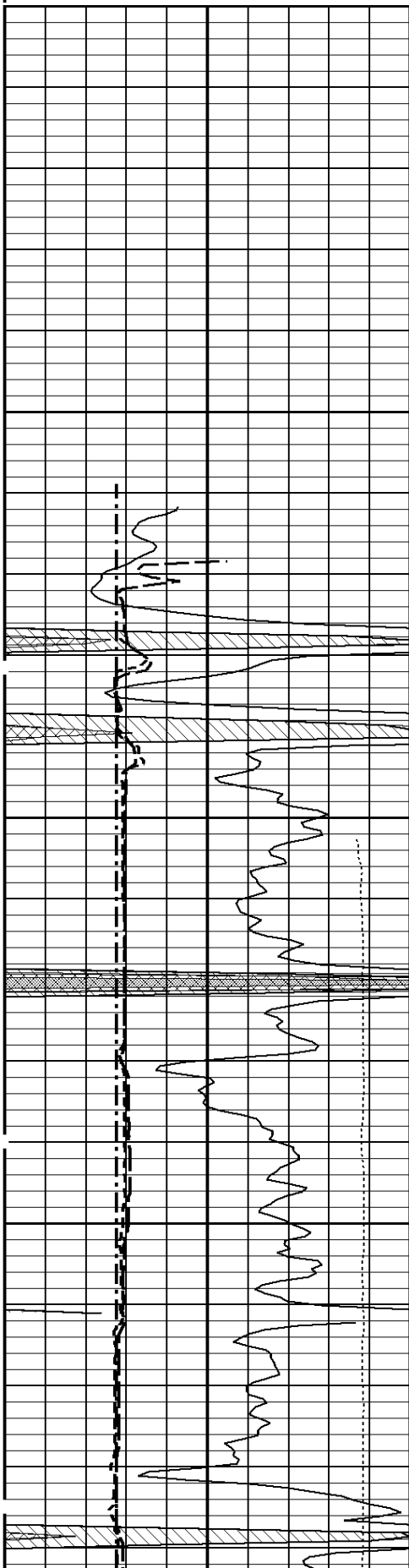
TENSION LBS 10000 0			
BIT SIZE INCHES (IN) 4 14			
DENSITY (X) CALIPER INCHES (IN) 14 4 24 14		PE CROSS-SECTION BARNs/ELECTRON 0 10	DENSITY CORRECTION G/CC -0.25 0.25
NEUTRON (Y) CALIPER INCHES (IN) 14 4 24 14		DENSITY POROSITY PERCENT (2.71 g/cc) 70 30 -10 30 -10 -50	
GAMMA RAY API UNITS 200  400 0 200		- BHV AHV - CU. FT	COMPENSATED BULK DENSITY G/CC 3.0 2.0 4.0 3.0

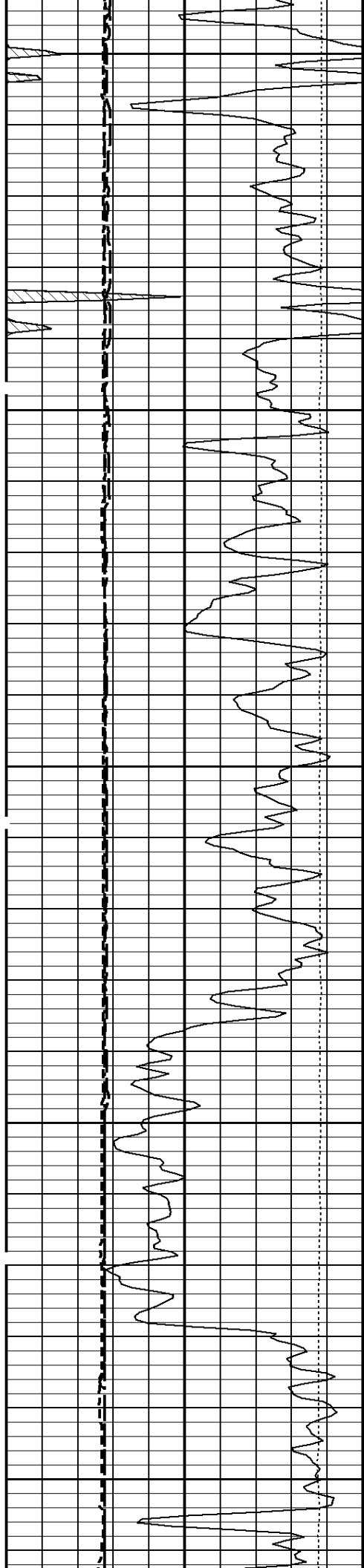
1:240 MAIN SECTION BULK DENSITY

File #1.1.6

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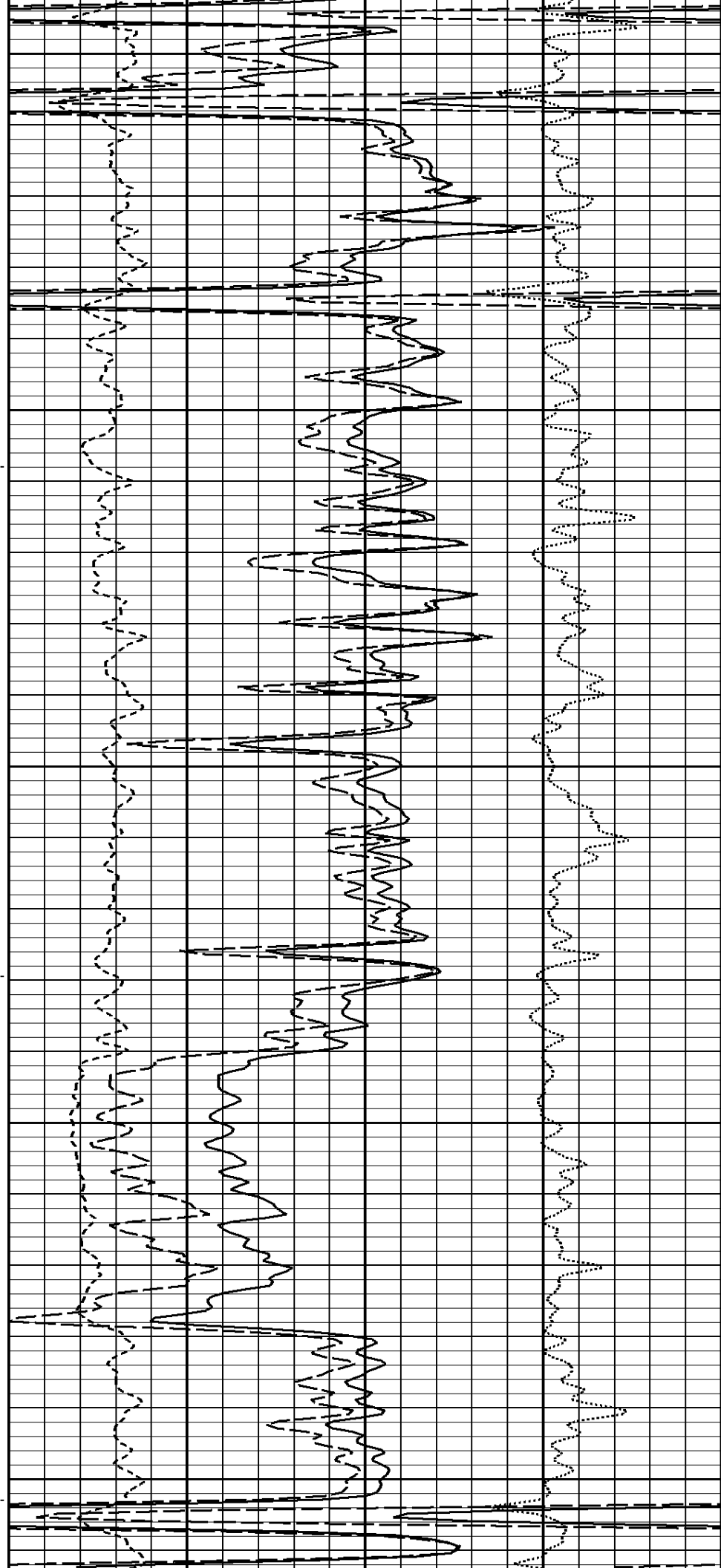
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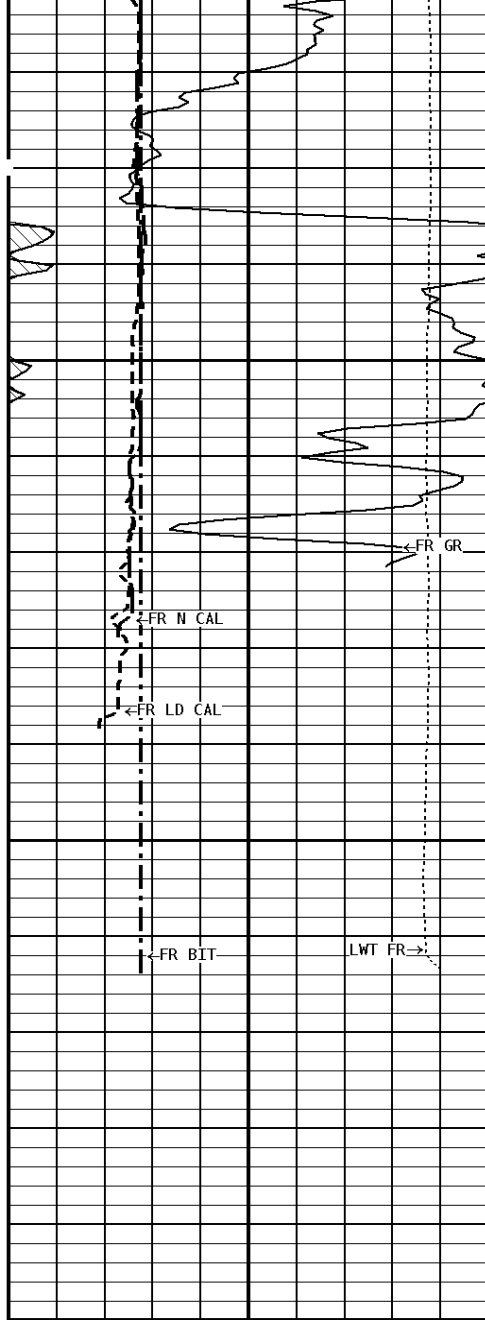




200

300

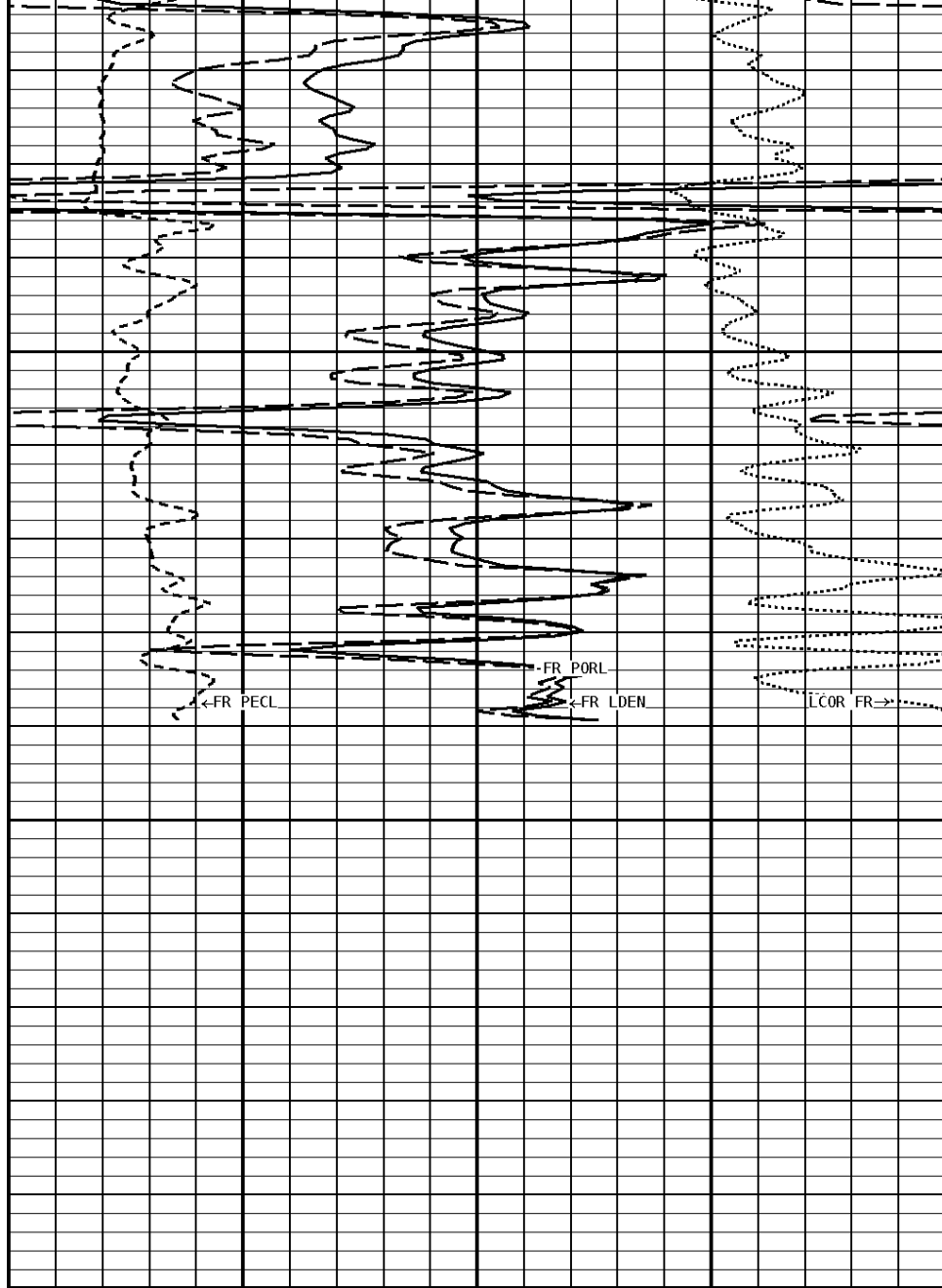




File #1.1.6

400

462



1:240 MAIN SECTION BULK DENSITY

GAMMA RAY API UNITS 200 0 400 200	- 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 4 24 14		DENSITY POROSITY PERCENT (2.71 g/cc) 70 30 30 -10 -10 -50	
DENSITY (X) CALIPER INCHES (IN) 14 4 24 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 Feet					
Drill Bit Size			6.750	in	
Casing Diameter			4.500	in	
Casing Correction (PHI N)			Disable		
Fluid Density			1.00	g/cc	
Matrix Density			2.71	g/cc	
Formation Matrix			Limestone		

*** Calibration Summary ***

Shop Calibration GRT-B						
Performed : 16-MAY-2011			Time : 09:49			
Sensor Suite : GR-GR5			ID : GRT-BA-14			
	Measured	Units	Calibrated		Units	
	Background	Jig	Jig			
GR	50	361	175		GRAP1	
Shop Calibration CNT-AA						
Performed : 21-MAR-2011			Time : 11:09			
Sensor Suite : CALI-BCN			ID : NDT-AB-400			
	Jig - Measured		Jig - Calibrated		Units	
	Ring#1	Ring#2	Ring#1	Ring#2		
CL # 1	8.4	14.4	6.0	12.0	IN.	
Performed : 13-Jul-2011			Time : 11:29			
Sensor Suite : BHC NEUT			ID : CNP-AA-116			
Source ID : N-1044						
	Tank		Verification		Units	
	Measured	Calibrated	Jig			
N/F	3.8805	3.6893	3.7029			
Porosity	23.5	20.5	20.7		%	
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	6.1	12.1	6.0	12.0	IN.	
Performed : 13-Jul-2011			Time : 12:09			
Sensor Suite : BHCPELNG			ID : LDP-DA-01			
Source ID : CSV-587						
Short Space						
	BKGD	Al	Mg	Al+Fe	Units	
LSW1	64	489	798	327	CPS	
LSW2	69	564	908	409	CPS	
LSW3	259	1341	2112	1147	CPS	
LSW4	310	1227	1704	1093	CPS	
LSW5	31	39	42	38	CPS	
LSW6	79	79	78	79	CPS	
LSW7	48	52	52	51	CPS	
LSW8	3	4	4	4	CPS	
QS	0.240	0.209	0.202	0.221		
PES			2.778	5.967		
SSDN		2.600	1.680		G/CC	
Long Space						
	BKGD	Al	Mg	Al+Fe	Units	
LLW1	109	613	2504	393	CPS	
LLW2	123	1058	4276	772	CPS	
LLW3	469	2037	7352	1776	CPS	
LLW4	607	1182	2992	1113	CPS	
LLW5	69	73	90	72	CPS	
LLW6	197	190	183	191	CPS	

LLW7	120	121	118	122	CPS
LLW8	8	9	14	8	CPS
QL	0.243	0.222	0.217	0.220	
PEL			2.697	5.458	
LSDN		2.600	1.680		G/CC