



Tucker
ENERGY SERVICES

COMPENSATED NEUTRON

PEL DENSITY LOG

Company RUNNING FOXES PETROLEUM N	
Well VALENTINE #8-24A-4	
Field WILDCAT	
County BOURBON	
State KANSAS	
Country USA	
API No. 15-011-24452	
File No : TUL-59695	Company : RUNNING FOXES PETROLEUM INC.
Well : VALENTINE #8-24A-4	Field : WILDCAT
County : BOURBON	State : KANSAS
Country : USA	API No : 15-011-24452
Location : 1815' FNL & 165' FEL SE NE	
LSD :	Sect : 24 Twp : 24S Rge : 25E
Permanent Datum :	Elevations :
Drilling Measured From :	KB 0.00 FT
Log Measured From :	DF 0.00 FT
Above Permanent Datum :	GL 877.00 FT
Date : 07-17-2014	Services : CNT LDT PIT
Run Number : 1	
Depth--Driller : 460.0 FT	
Depth--Logger : 459.0 FT	
First Reading : 436.0 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 : FRESH / NATIVE	
Density : 0.0	
Fluid Loss : 0.0	
PH/Viscosity : 0.0	
Sample Source : MEASURED	
RM@Measured Temp. : 1.300 @ 60 F	
RMF@Measured Temp : 1.100 @ 60 F	
RMG@Measured Temp. : 1.500 @ 60 F	
Source RMF/RMC : CALCULATED/CALCULATED	
RM@BHT : 1.000 @ 77 F	
Time Circulation Stopped : 77	
Max Recorded Temp. : F	
Equipment/Base : T-126 TULSA	
Recorded By : S.K. DAVIS	
Witnessed By : L. THOMPSON	

The customer is hereby warned that by providing the log data herein, T. E. S. does not agree to provide any interpretation of log data, conversion of log data to physical rock parameters or recommendations. T. E. 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. E. 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. E. 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)	Top (Ft)
6.750	459.00	8.625	20.00	20.00	0.00

Run Number	1	
Date	07-17-2014	
Date/Time On Bottom	07-17-2014 10:15 am	
Depth to Fluid	0.0 Ft	
Salinity	0.000	
RMF@BHT	0.900 @ 77 F	
RMC@BHT	1.200 @ 77 F	

Run Number 1

Comments

ALL PRESENTATION PER CUSTOMER REQUEST
 GRT,CNT,LDT,PIT RUN IN COMBINATION
 CALIPERS ORIENTED ON X-Y AXIS
 2.71 G/CC USED TO CALCULATE POROSITY
 ANNULAR & BOREHOLE VOLUME CALCULATED USING 2.875 PRODUCTION CASING
 PHIN IS CALIPER CORRECTED

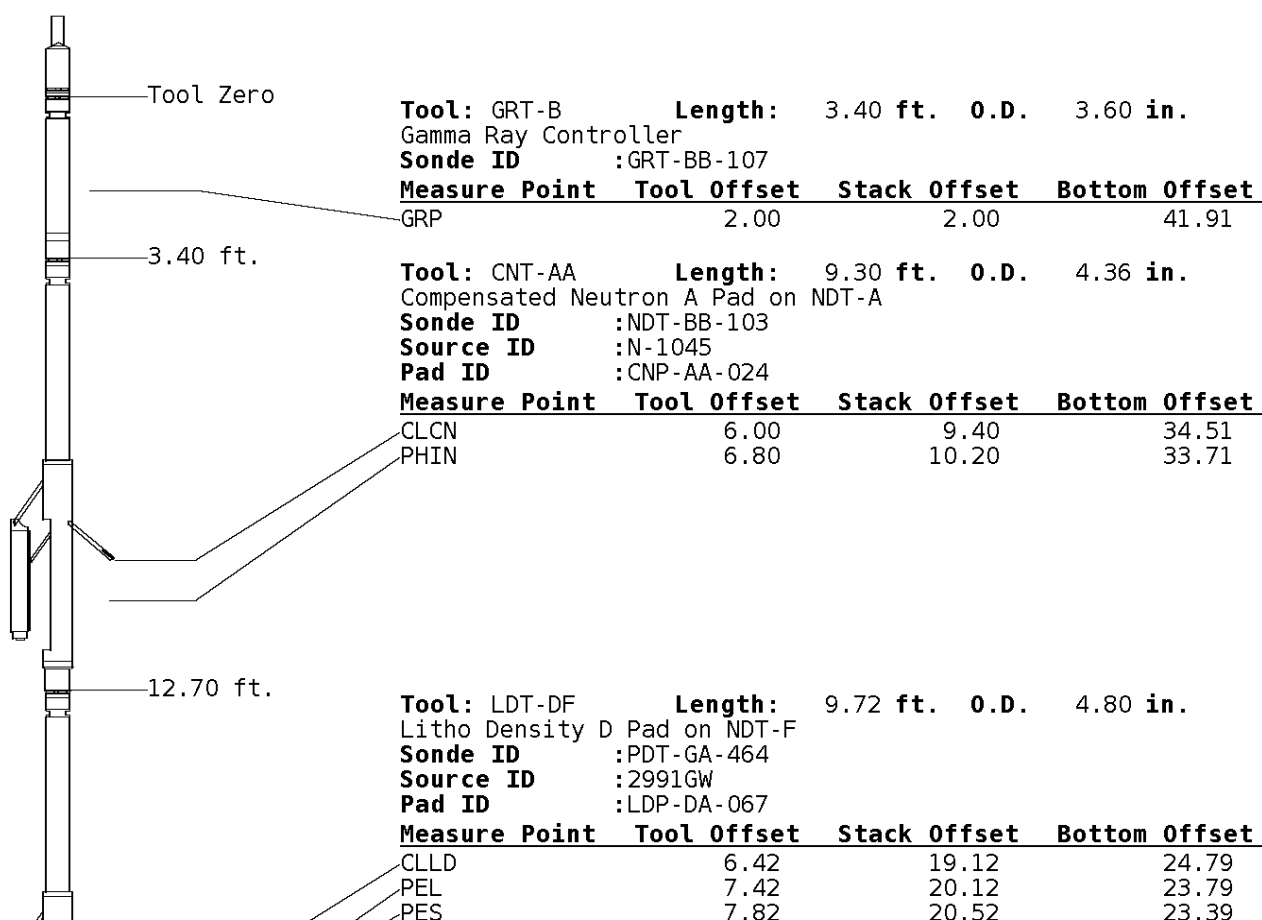
GRT; GRP
 CNT; PHIN, CLCNIN
 LDT; PORL, LCORN, PECLN, LDENN, CLLDIN
 PIT; ILD, ILM, SPU, SFLAEC, CIRD

OPERATORS;

C. GONZALES
 J. ADAMS

Tool String Schematic

Total Tool Length - 43.91 ft.
Maximum Outside diameter - 4.80 in.
Net Weight in Air - 743.00 lbs.





7.62	20.32	23.59
7.62	20.32	23.59

Tool: PIT-CA **Length:** 21.49 ft. **O.D.** 3.62 in.
 Phased Dual Induction w/ RM & D
Sonde ID :PIT-AB-005

Measure Point	Tool Offset	Stack Offset	Bottom Offset
ILD	8.92	31.34	12.56
ILM	10.10	32.52	11.39
SFLU	17.49	39.91	4.00
SP	20.60	43.02	0.88

LWT ————— 43.91 ft.

Well File: run-val-8-24a-4-stk-jul-17

Scale: 1:240 **Format:** NLD-240

Segment: V1.D1.S5 MN

Acquired: 2014-07/17 10:18 3.3.0-12594

Reference: 0

Processed: 2014-07/17 10:35 3.3.0-12594

**BIT SIZE
INCHES (IN)**

4 ————— 14

**NEUTRON (Y) CALIPER
INCHES (IN)**

14 ————— 24
 4 ————— 14

**DENSITY (X) CALIPER
INCHES (IN)**

14 ————— 24
 4 ————— 14

Volume
Quartz

**PE CROSS-SECTION
BARNs/ELECTRON**

**DENSITY CORRECTION
G/CC**

0 ————— 10 -0.25 ————— 0.25

**TENSION
LBS**

10000 ————— 0

Volume
Calcite

**DENSITY POROSITY (2.71g/cc)
PERCENT**

70 ————— 30
 30 ————— -10
 -10 ————— -50

**GAMMA RAY
API UNITS**

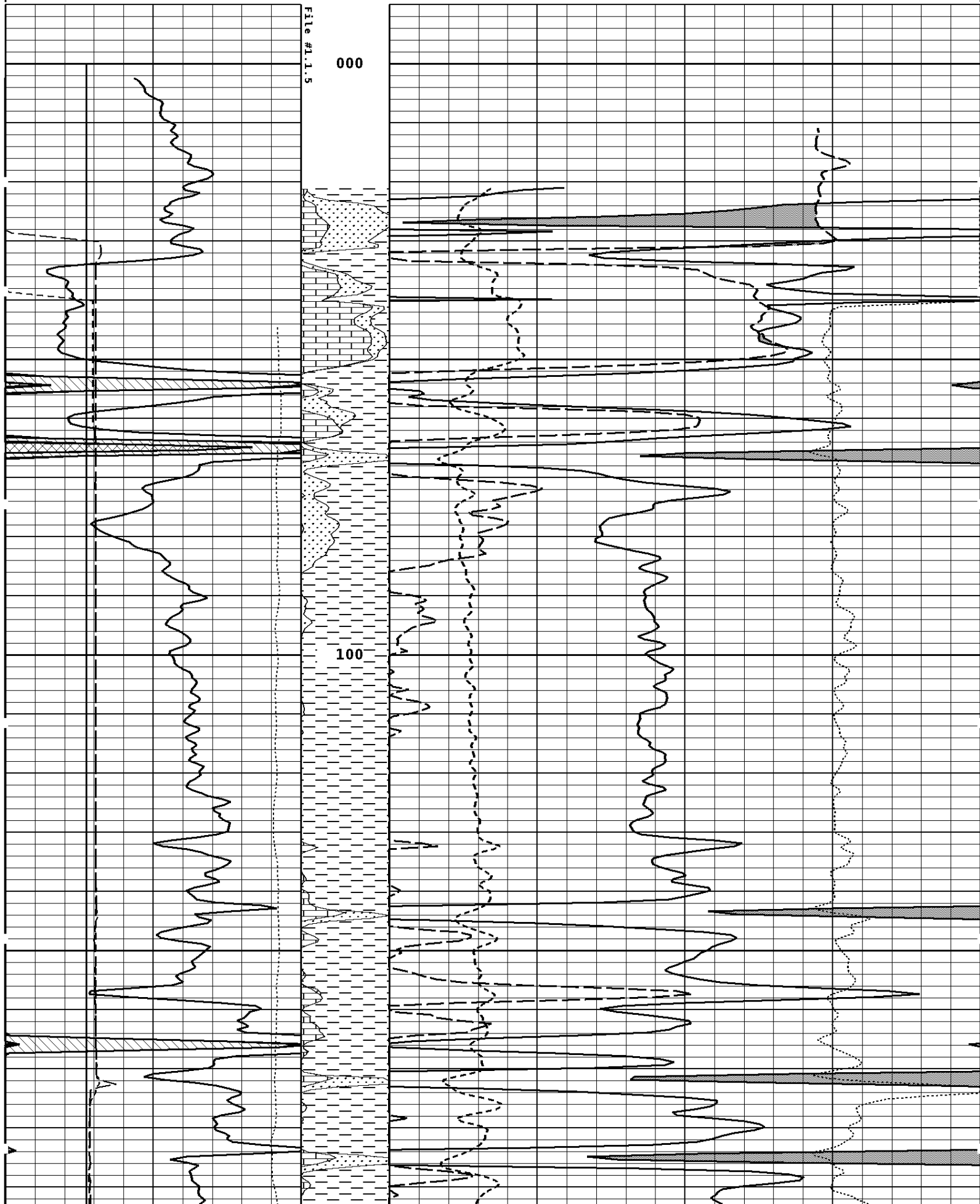
200 ————— 400
 0 ————— 200

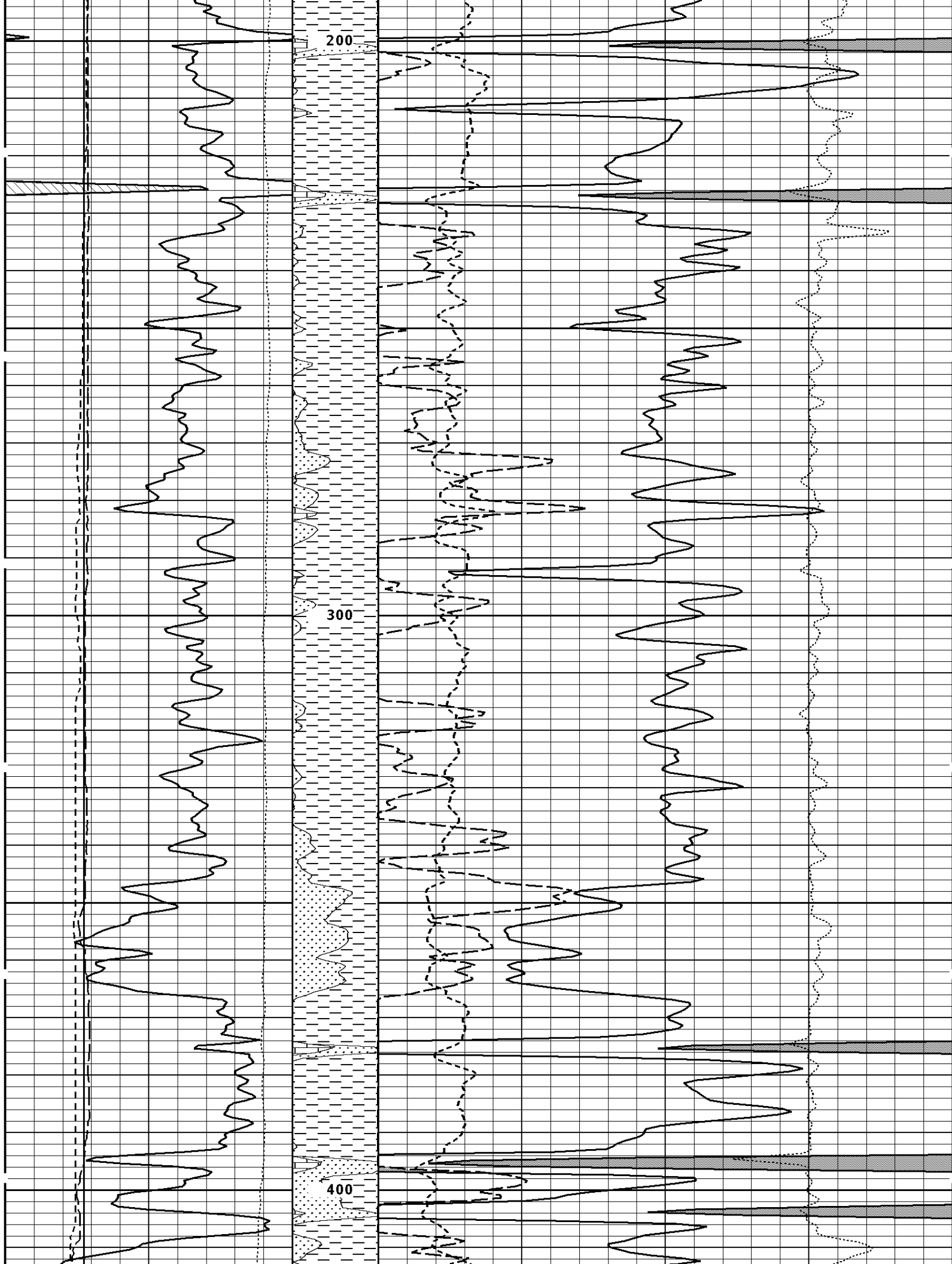
Volume
Dolo/Shale

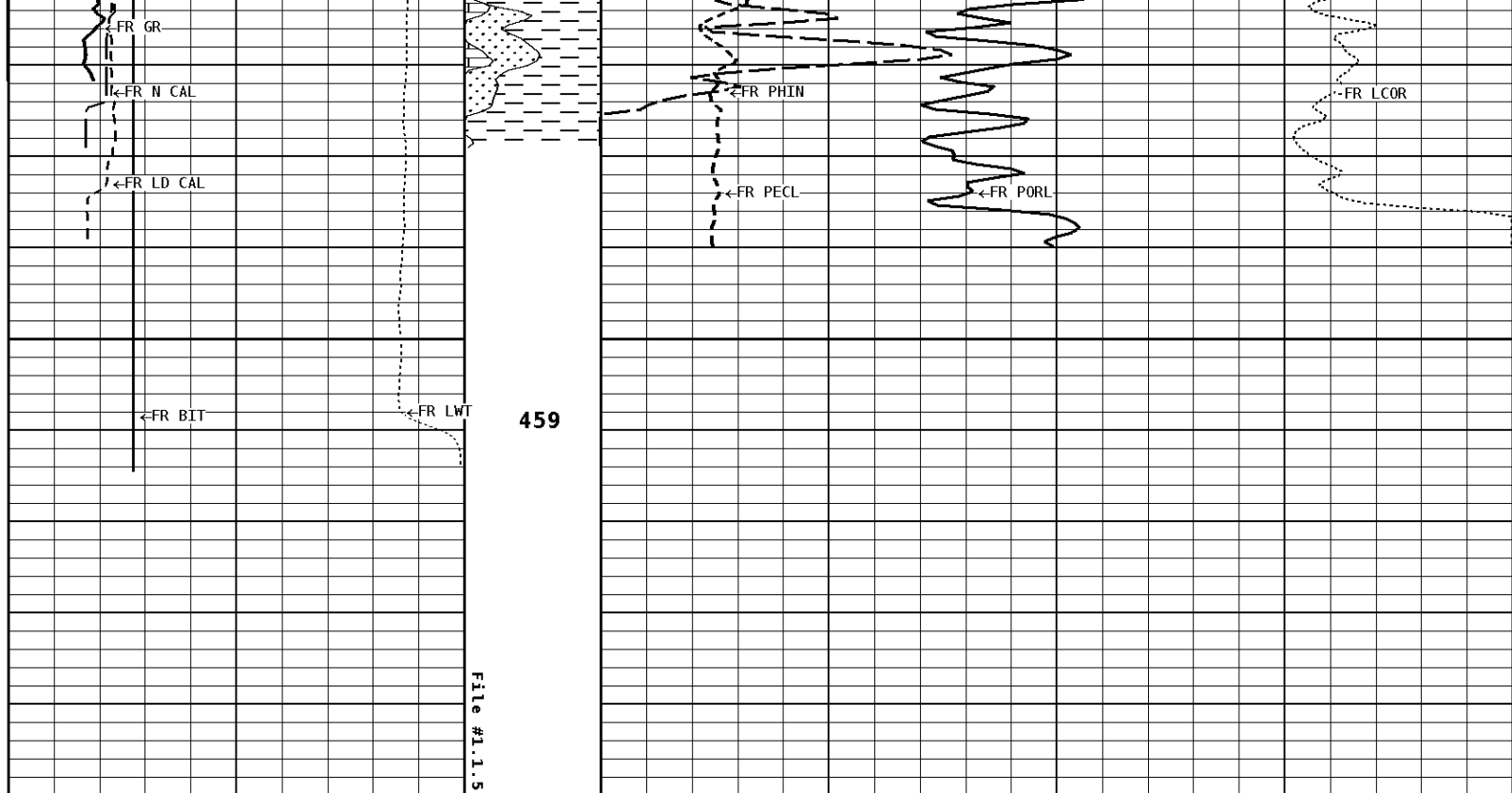
**NEUTRON POROSITY (LIMESTONE)
PERCENT**

30 ————— -10

1:240 MAIN SECTION







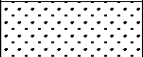
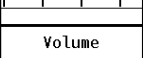
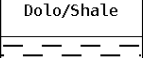
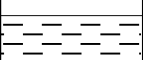
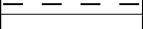
1:240 MAIN SECTION

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

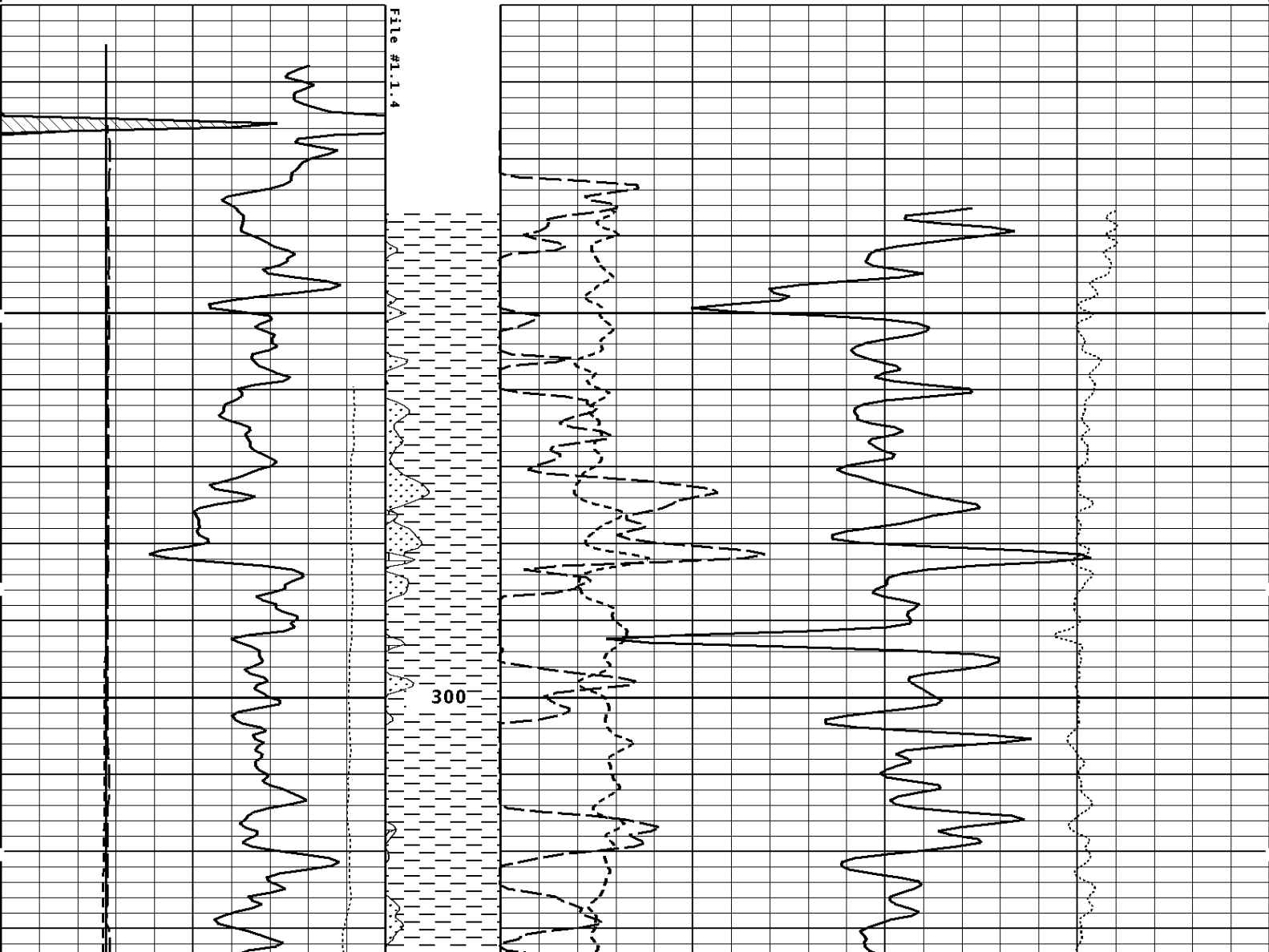
* Borehole Zone Factors *

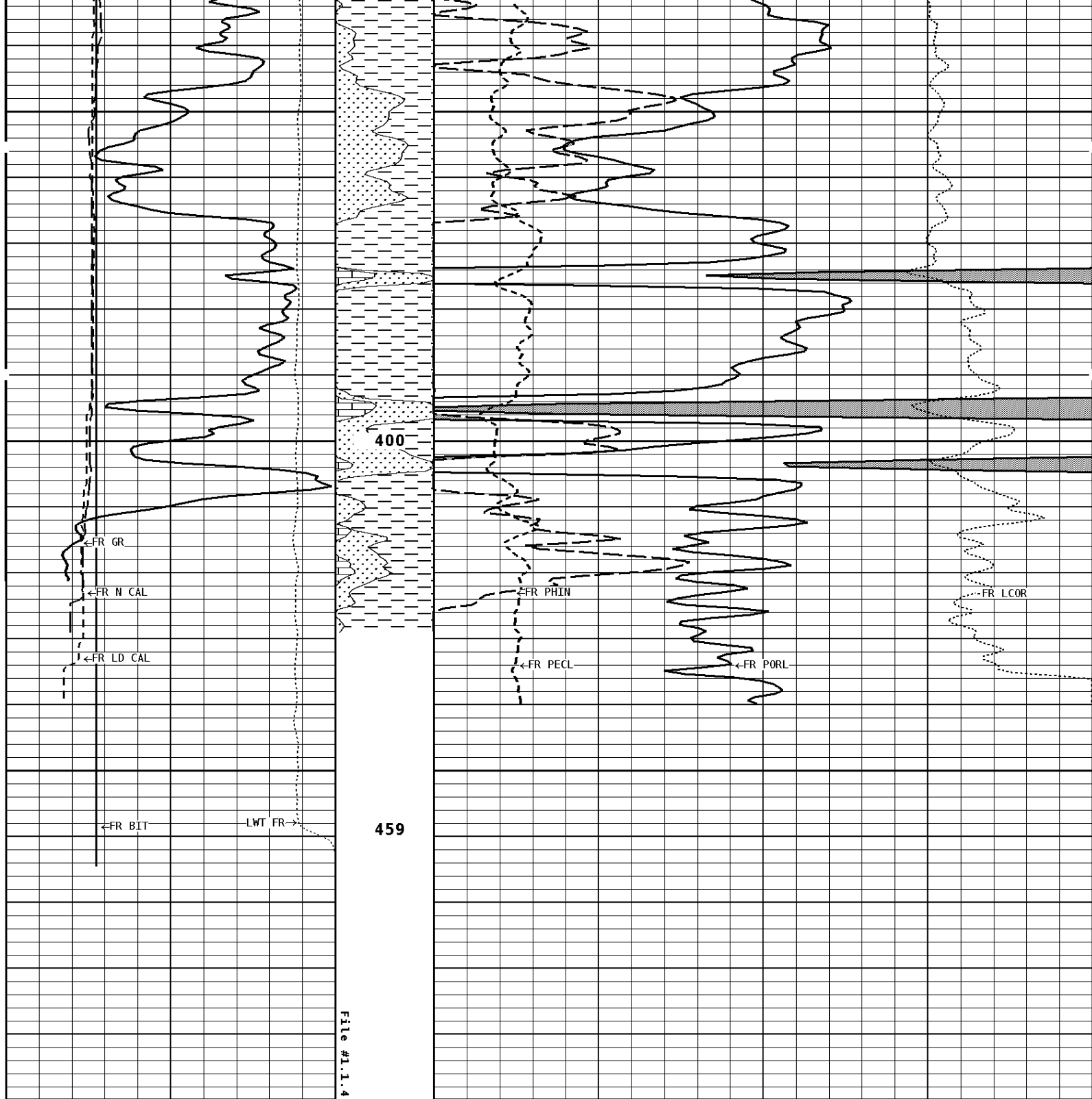
Zone 1 99999.0 to 0.0 Feet		
Matrix Density		2.71 g/cc
Fluid Density		1.00 g/cc
Formation Matrix		Limestone
Drill Bit Size		6.750 in
Casing Diameter		2.875 in
Casing Thickness		0.250 in
Casing Correction (PHI N)		Disable

BIT SIZE INCHES (IN)					
4	14				
NEUTRON (Y) CALIPER INCHES (IN)					
14	24				
4	14				

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

1:240 REPEAT SECTION





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

14 4	24 14	0	10	-0.25	0.25
NEUTRON (Y) CALIPER INCHES (IN)					
14 4	24 14				
BIT SIZE INCHES (IN)					
4	14				

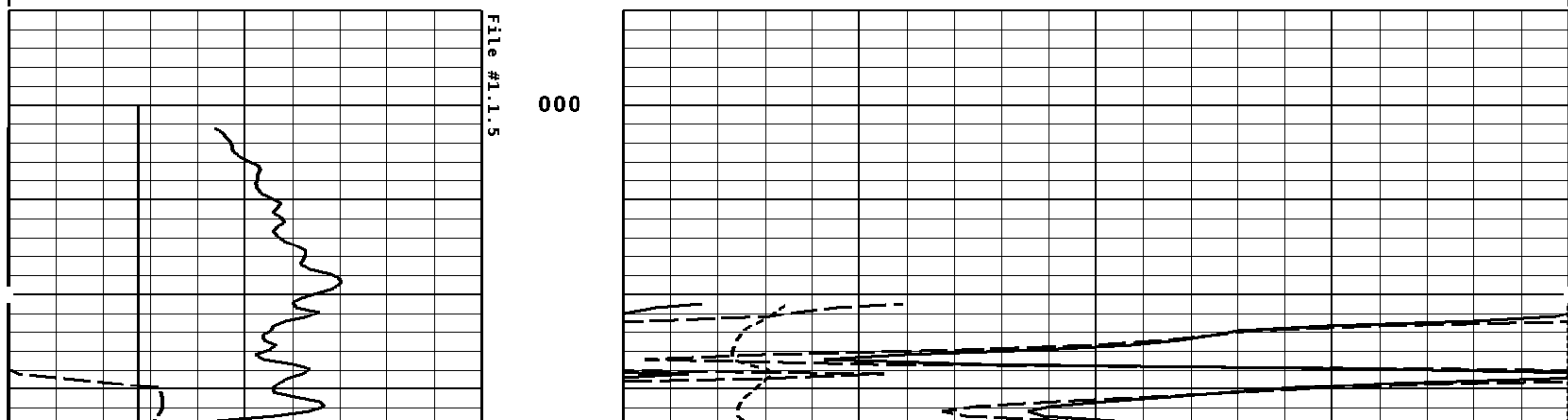
* Borehole Zone Factors *

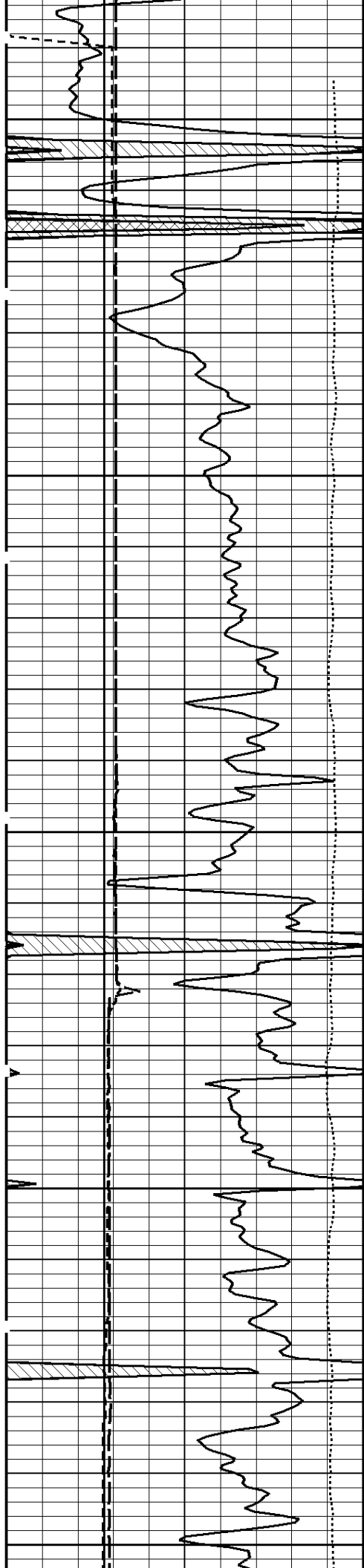
Zone 1		99999.0	to	0.0	Feet
Matrix Density		2.71		g/cc	
Fluid Density		1.00		g/cc	
Formation Matrix		Limestone			
Drill Bit Size		6.750		in	
Casing Diameter		2.875		in	
Casing Thickness		0.250		in	
Casing Correction (PHI N)		Disable			

Well File: run-val-8-24a-4-stk-jul-17	Scale: 1:240	Format: LDT-240
Segment: V1.D1.S5 MN	Acquired: 2014-07/17 10:18 3.3.0-12594	
Reference: 0	Processed: 2014-07/17 10:35 3.3.0-12594	

BIT SIZE INCHES (IN)	4	14		
NEUTRON (Y) CALIPER INCHES (IN)	14 4	24 14		
DENSITY (X) CALIPER INCHES (IN)	14 4	24 14		
TENSION LBS	10000	0		
GAMMA RAY API UNITS	200 0	400 200		
			PE CROSS-SECTION BARNs/ELECTRON	DENSITY CORRECTION G/CC
			0	10 -0.25 0.25
			COMPENSATED BULK DENSITY G/CC	
			3.0	4.0
			2.0	3.0
			1.0	2.0
			DENSITY POROSITY (2.71g/cc) PERCENT	
			70	30
			30	-10
			-10	-50

1:240 MAIN SECTION
BULK DENSITY

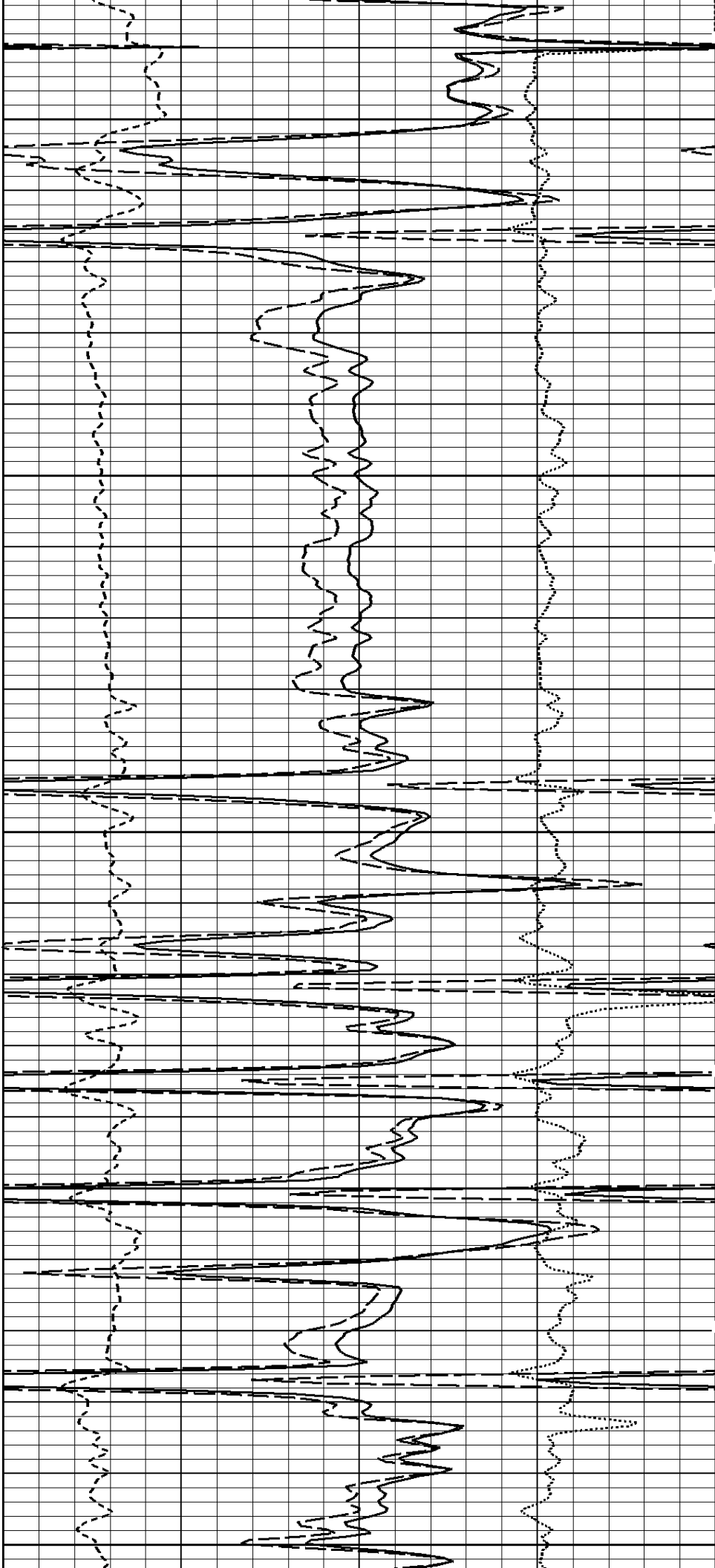


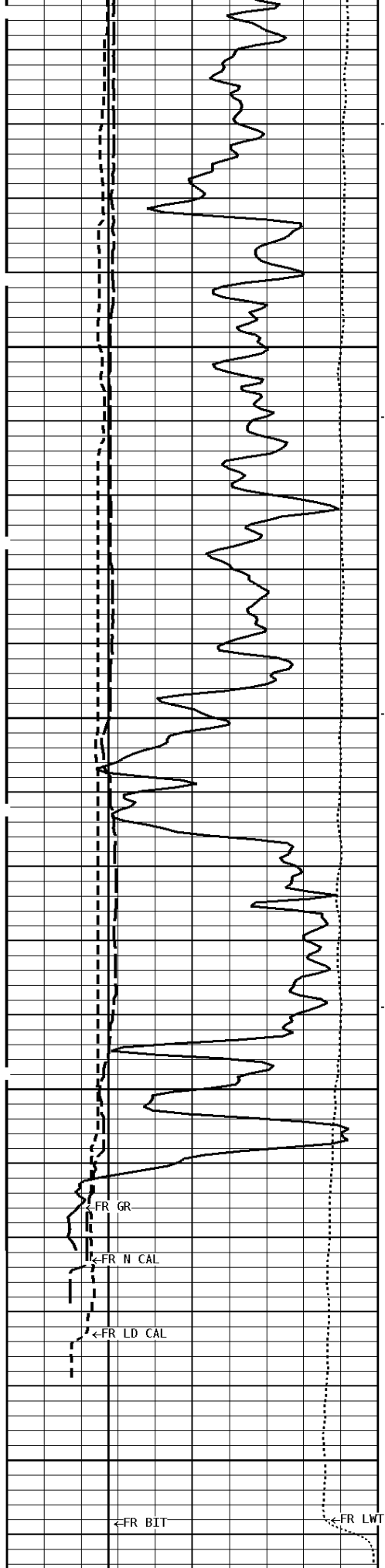


--100Cu.Ft

100

200

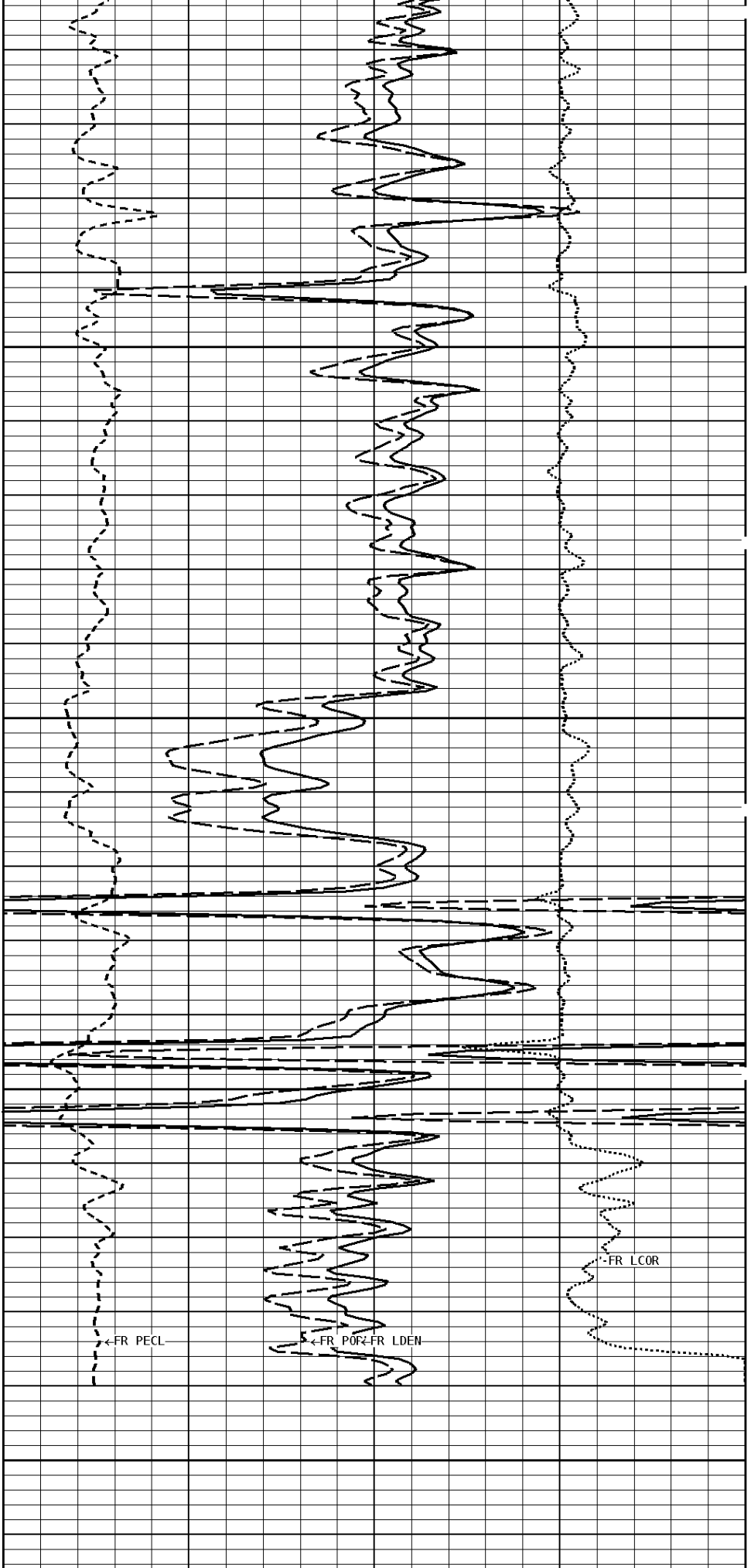




300

400

459



File #1.1.5

1:240 MAIN SECTION

BULK DENSITY

GAMMA RAY API UNITS		- BHV AHV - CU. FT	DENSITY POROSITY (2.71g/cc) PERCENT	
200 0	400 200		70 30	30 -10
			-10	-50
TENSION LBS			COMPENSATED BULK DENSITY G/CC	
10000	0		3.0 2.0	4.0 3.0
			1.0	2.0
DENSITY (X) CALIPER INCHES (IN)			PE CROSS-SECTION BARNS/ELECTRON	DENSITY CORRECTION G/CC
14 4	24 14		010	-0.250.25
NEUTRON (Y) CALIPER INCHES (IN)				
14 4	24 14			
BIT SIZE INCHES (IN)				
4	14			

* 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		2.875	in
Casing Correction (PHI N)		Disable	

* Calibration Summary *

Shop Calibration					
GRT-B					
Performed : 21-APR-2014			Time : 11:21		
Sensor Suite : GR-GR5			ID : GRT-BB-107		
	Measured	Units	Calibrated	Units	
GR	Background	Jig	Jig		
	75	381	175	GRAPI	
Shop Calibration					
CNT-AA					
Performed : 02-Jul-2014			Time : 09:45		
Sensor Suite : CALI-BCN			ID : NDT-BB-103		
	Jig - Measured		Jig - Calibrated	Units	
	Ring#1 Ring#2		Ring#1 Ring#2		
CL # 1	9.1 14.0		6.0 12.0	IN.	
Performed : 02-Jul-2014			Time : 09:26		
Sensor Suite : BHC NEUT			ID : CNP-AA-024		
Source ID : N-1045					
	Tank		Verification	Units	

	Measured	Calibrated	Jig		
N/F	3.9117	3.6893	3.6916		
Porosity	24.0	20.5	20.5	%	
Shop Calibration					
LDT-DF					
Performed : 02-JUL-2014			Time : 10:36		
Sensor Suite : CALI-LTH			ID : PDT-GA-464		
	Jig - Measured		Jig - Calibrated		Units
	Ring#1	Ring#2	Ring#1	Ring#2	
CL # 1	7.7	11.1	6.0	12.0	IN.
Performed : 02-JUL-2014			Time : 10:16		
Sensor Suite : BHCPELNG			ID : LDP-DA-067		
Source ID : 2991GW					
Short Space					
	BKGD	Al	Mg	Al+Fe	Units
LSW1	65	1018	1652	669	CPS
LSW2	67	1203	1920	868	CPS
LSW3	244	2792	4522	2373	CPS
LSW4	301	2601	3808	2298	CPS
LSW5	41	73	78	69	CPS
LSW6	63	67	69	68	CPS
LSW7	49	51	52	52	CPS
LSW8	12	13	15	13	CPS
QS	0.132	0.129	0.140	0.138	
PES			2.778	5.967	
SSDN		2.600	1.680		G/CC
Long Space					
	BKGD	Al	Mg	Al+Fe	Units
LLW1	109	1140	4661	694	CPS
LLW2	137	2050	8151	1498	CPS
LLW3	455	3843	14763	3311	CPS
LLW4	504	1835	5918	1668	CPS
LLW5	55	63	114	61	CPS
LLW6	162	155	149	159	CPS
LLW7	101	98	96	100	CPS
LLW8	3	6	16	5	CPS
QL	0.232	0.225	0.219	0.225	
PEL			2.697	5.458	
LSDN		2.600	1.680		G/CC



Tucker
ENERGY SERVICES

Company: RUNNING FOXES PETROLEUM INC.

Well: VALENTINE #8-24A-4

Location: 1815' FNL & 165' FEL

Logged: 07-17-2014

K.B. Elev: 0.0 Ft