

**Tucker**  
WIRELINE SERVICES

COMPENSATED NEUTRON

PEL DENSITY LOG

File No : TUL-57669  
 Company : RUNNING FOXES PETROLEUM INC.  
 Well : SHAW #2-25C-1  
 Field : WILDCAT  
 County : BOURBON  
 State : KS  
 Country : USA  
 API No : 15-011-23862-00-00

Location :  
 780' FNL & 780' FEL  
 NE SW NE NE

LSD : Sect : 25 Twp : 24S Rge : 25E

Company : RUNNING FOXES PETROLEUM  
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 Field : WILDCAT  
 County : BOURBON  
 State : KS  
 Country : USA  
 API No. : 15-011-23862-00-00

Permanent Datum: GL Elevations: KB 0.00 Ft  
 Drilling Measured From: GL DF 0.00 Ft  
 Log Measured From: GL DF 0.00 Ft  
 Above Permanent Datum: 0.00 Ft GL 867.00 Ft

Date	03-07-2012		Services:	CNT
Run Number	1		LDT	PII
Depth--Driller	362.0	Ft		
Depth--Logger	364.0	Ft		
First Reading	341.0	Ft		
Last Reading	20.0	Ft		
Casing--Driller	20.0	Ft		
Casing--Logger	20.0	Ft		
Bit Size	6.250	In		
Casing Size	8.625	In		
Hole Fluid Type	FRESH / NATIVE			
Density	0.0 LBS/GAL			
Fluid Loss	0.0 CC			
PH/Viscosity	0.0		0.0 SEC	
Sample Source	MEASURED			
RM@Measured Temp.	10.000	@ 70 F		
RMF@Measured Temp	8.500	@ 70 F		
RMC@Measured Temp.	11.500	@ 70 F		
Source RMF/RMC	CALCULATED/CALCULATED			
RM@BHT	10.000	@ 70 F		
Time Circulation Stopped	70	F		
Max Recorded Temp.	123	TULSA		
Equipment/Base	R. FRANKLIN			
Recorded By	G. BRATTON, C. COUNTS			
Witnessed By				

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)
6.250	362.00	8.625	24.00	20.00

Run Number	1	
Date	03-07-2012	
Date/Time On Bottom		
Depth to Fluid	25.0	Ft
Salinity	0.000	PPM
RMF@BHT	8.500 @ 70	F
RMC@BHT	11.500 @ 70	F

Run Number 1

Comments

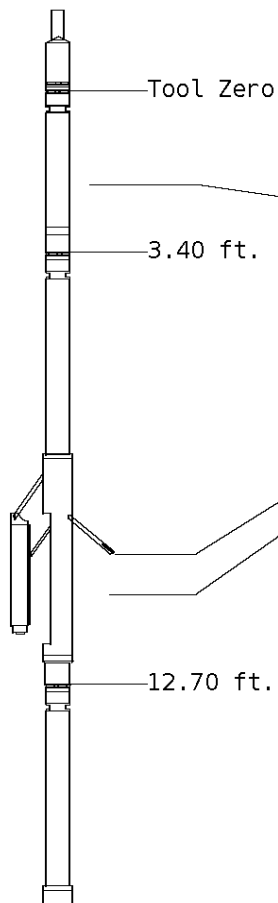
ALL PRESENTATIONS AS PER CUSTOMER REQUEST.  
 GRT, CNT, LDT, AND PIT RUN IN COMBINATION.  
 CALIPERS ORIENTED ON X-Y AXIS.  
 2.17 G/CC USED TO CALCULATED POROSITY.  
 ANNULAR HOLE VOLUME CALCULATED UISING 2.875" PRODUCTION CASING.

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

OPERATORS:  
 A. WARREN  
 N. LOYD  
 B. STEPHENS

### Tool String Schematic

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



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

**Sonde ID** :GRT-BA-14

Measure Point	Tool Offset	Stack Offset	Bottom Offset
GRP	2.00	2.00	41.91

**Tool:** CNT-AA      **Length:** 9.30 ft.    **O.D.** 4.36 in.  
 Compensated Neutron A Pad on NDT-A

**Sonde ID** :NDT-BD-123

**Source ID** :N-1046

**Pad ID** :CNP-AA-024

Measure Point	Tool Offset	Stack Offset	Bottom Offset
CLCN	6.00	9.40	34.51
PHIN	6.80	10.20	33.71

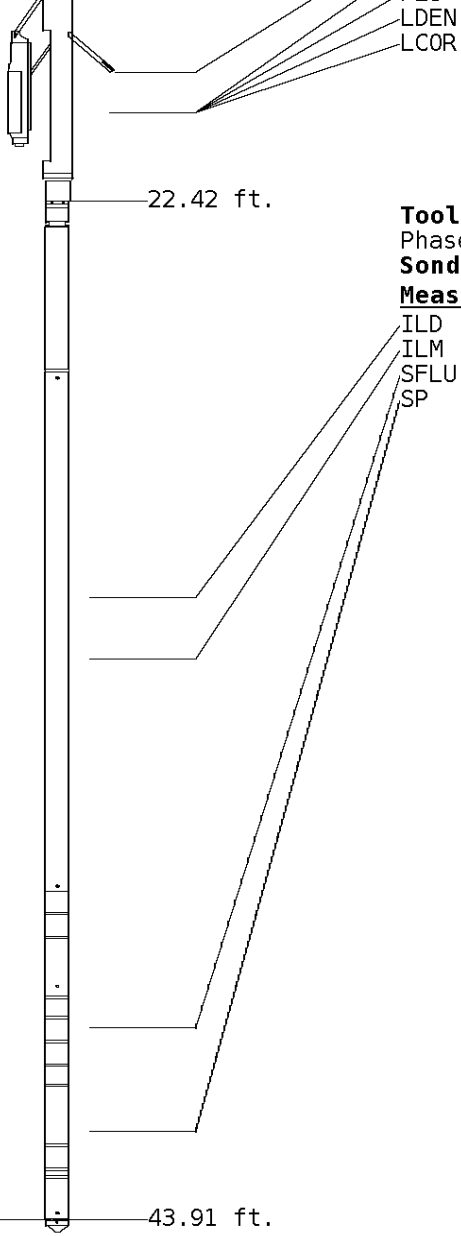
**Tool:** LDT-DF      **Length:** 9.72 ft.    **O.D.** 4.80 in.  
 Litho Density D Pad on NDT-F

**Sonde ID** :PDT-GA-466

**Source ID** :2991GW

**Pad ID** :LDP-DA-067

Measure Point	Tool Offset	Stack Offset	Bottom Offset
CLLD	6.42	19.12	24.79
PEL	7.42	20.12	23.79
PES	7.82	20.52	23.39



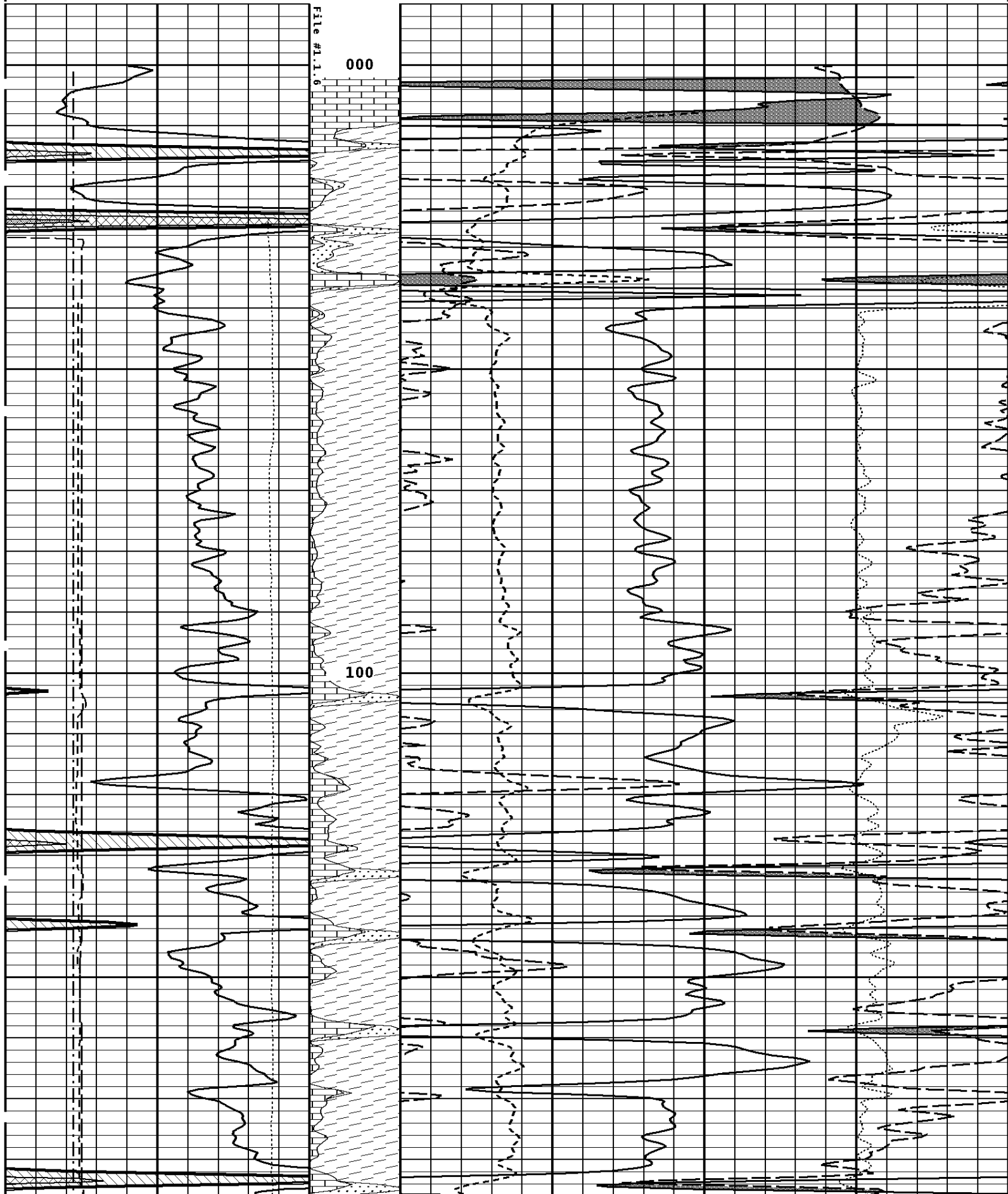
**Tool:** PIT-CA      **Length:** 21.49 ft.    **O.D.** 3.62 in.  
 Phased Dual Induction w/ RM & D  
**Sonde ID** :PIT-AC-022

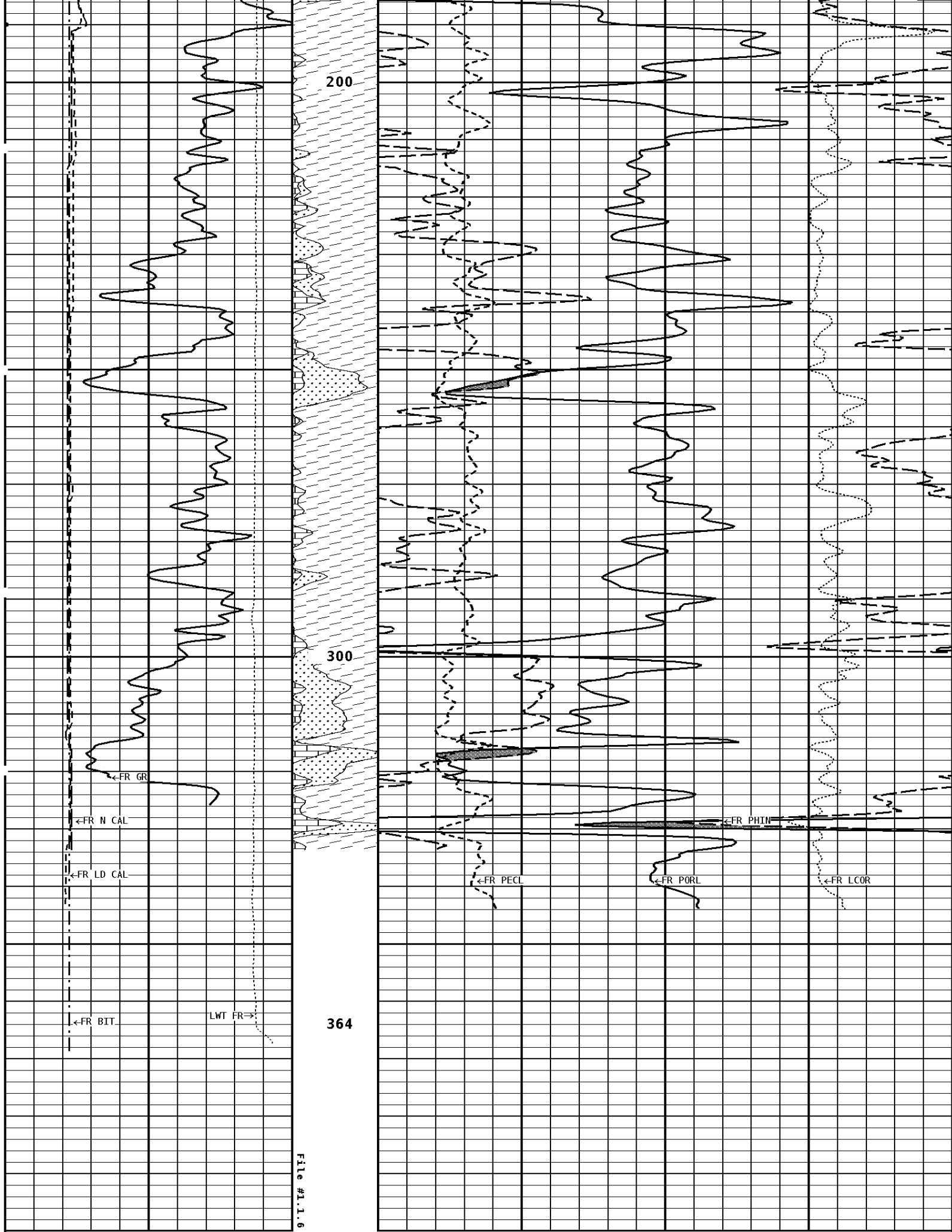
Measure Point	Tool Offset	Stack Offset	Bottom Offset
ILD	8.92	31.34	12.56
ILM	10.10	32.52	11.39
SFLU	17.49	39.91	4.00
SP	20.60	43.02	0.88


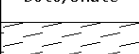


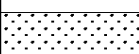
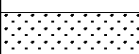


**Well File:** RFP\_SHA 2-25C-1 MAR 7 STK      **Scale:** 1:240  
**Segment:** V1.D1.S6 MAIN      **Acquired:** 2012-03/07 13:46 3.2.0-10367  
**Reference:** 0      **Processed:** 2012-03/07 14:20 3.2.0-10367

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

# 1:240 MAIN SECTION









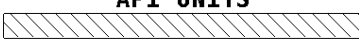
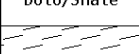


<b>GAMMA RAY API UNITS</b> 		Volume Dolo/Shale 	<b>DENSITY POROSITY PERCENT (2.71 g/cc)</b>	
200	400	70		30
0	200	30		-10
		-10		-50
<b>NEUTRON (Y) CALIPER INCHES (IN)</b> 		Volume Calcite 	<b>NEUTRON POROSITY PERCENT (LIMESTONE MATRIX)</b>	
14	24	70		30
4	14	30		-10
		-10		-50
<b>DENSITY (X) CALIPER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

**\* Borehole Zone Factors \***

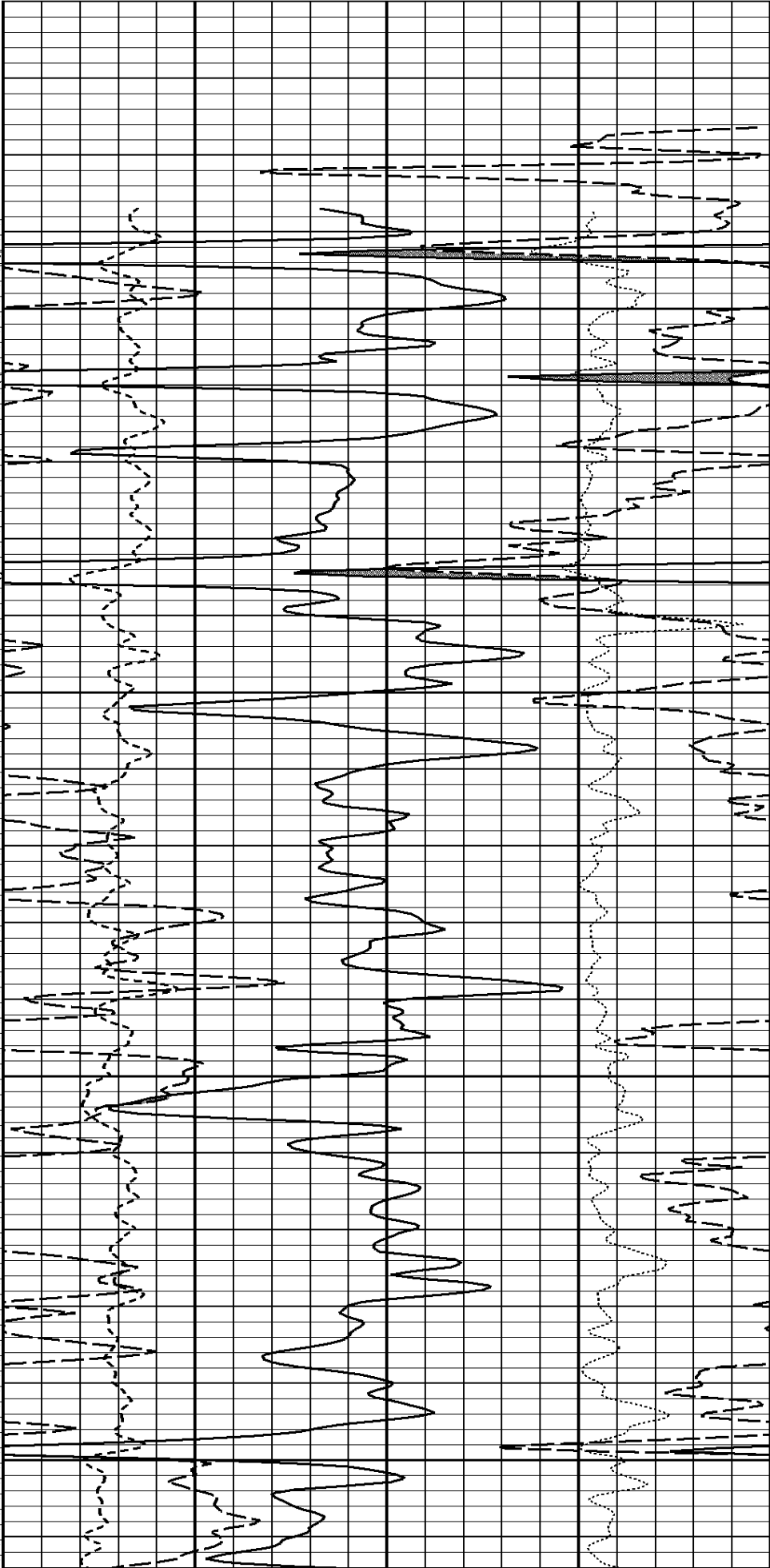
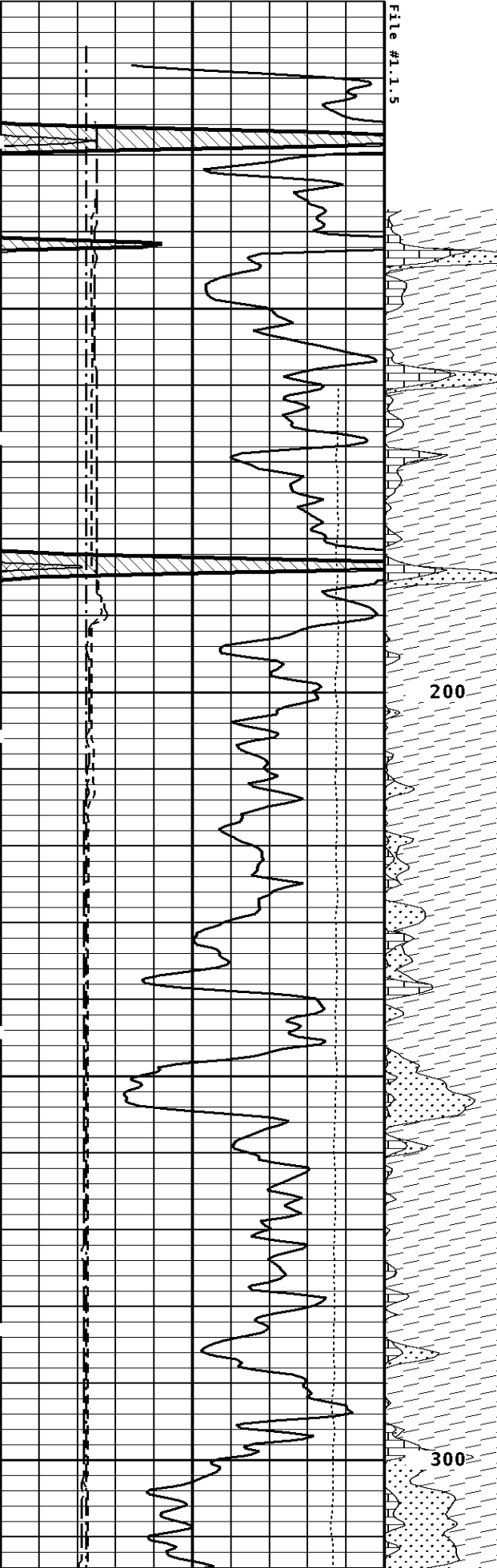
<b>Zone 1 99999.0 to 0.0 Feet</b>	
Matrix Density _____	2.71 g/cc
Fluid Density _____	1.00 g/cc
Formation Matrix _____	Limestone
Drill Bit Size _____	6.250 in
Casing Diameter _____	2.875 in
Casing Correction (PHI N) _____	Disable

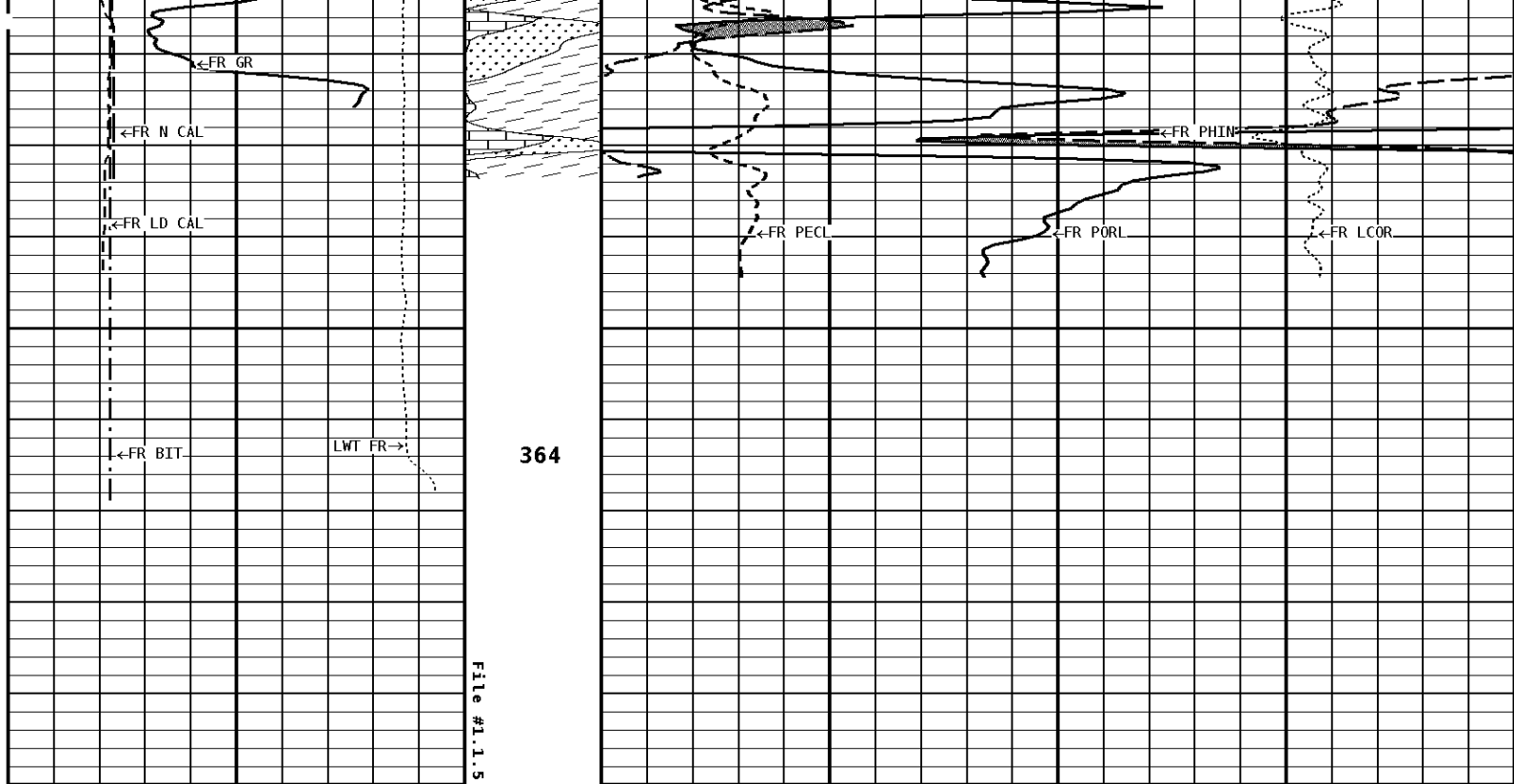
<b>Well File:</b> RFP_SHA_2-25C-1_MAR_7_STK <b>Segment:</b> V1.D1.S5_REPEAT <b>Reference:</b> 0	<b>Scale:</b> 1:240 <b>Acquired:</b> 2012-03/07 13:34 3.2.0-10367 <b>Processed:</b> 2012-03/07 14:20 3.2.0-10367
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<b>TENSION LBS</b> 				
10000	0			
<b>BIT SIZE INCHES (IN)</b> 				
4	14			
<b>DENSITY (X) CALIPER INCHES (IN)</b> 		Volume Quartz 	<b>PE CROSS-SECTION BARNS/ELECTRON</b>	<b>DENSITY CORRECTION G/CC</b>
14	24	0	10	-0.25
4	14			0.25
<b>NEUTRON (Y) CALIPER INCHES (IN)</b> 		Volume Calcite 	<b>NEUTRON POROSITY PERCENT (LIMESTONE MATRIX)</b>	
14	24	70		30
4	14	30		-10
		-10		-50
<b>GAMMA RAY API UNITS</b> 		Volume Dolo/Shale 	<b>DENSITY POROSITY PERCENT (2.71 g/cc)</b>	
200	400	70		30
0	200	30		-10
		-10		-50

**1:240 REPEAT SECTION**

File #1.1.5





**1:240 REPEAT SECTION**

<b>GAMMA RAY</b> <b>API UNITS</b> 200  400 0 <span style="float: right;">200</span>		Volume Dolo/Shale 	<b>DENSITY POROSITY</b> <b>PERCENT (2.71 g/cc)</b> 70 <span style="float: right;">30</span> 30 <span style="float: right;">-10</span> -10 <span style="float: right;">-50</span>	
<b>NEUTRON (Y) CALIPER</b> <b>INCHES (IN)</b> 14 <span style="float: right;">24</span> 4 <span style="float: right;">14</span>		Volume Calcite 	<b>NEUTRON POROSITY</b> <b>PERCENT (LIMESTONE MATRIX)</b> 70 <span style="float: right;">30</span> 30 <span style="float: right;">-10</span> -10 <span style="float: right;">-50</span>	
<b>DENSITY (X) CALIPER</b> <b>INCHES (IN)</b> 14 <span style="float: right;">24</span> 4 <span style="float: right;">14</span>		Volume Quartz 	<b>PE CROSS-SECTION</b> <b>BARNS/ELECTRON</b> 0 <span style="float: right;">10</span>	<b>DENSITY CORRECTION</b> <b>G/CC</b> -0.25 <span style="float: right;">0.25</span>
<b>BIT SIZE</b> <b>INCHES (IN)</b> 4 <span style="float: right;">14</span>				
<b>TENSION</b> <b>LBS</b> 10000 <span style="float: right;">0</span>				

**\* Borehole Zone Factors \***

<b>Zone 1 99999.0 to 0.0 Feet</b>		
Matrix Density	_____	2.71 g/cc
Fluid Density	_____	1.00 g/cc
Formation Matrix	_____	Limestone
Drill Bit Size	_____	6.250 in
Casing Diameter	_____	2.875 in
Casing Correction (PHI N)	_____	Disable

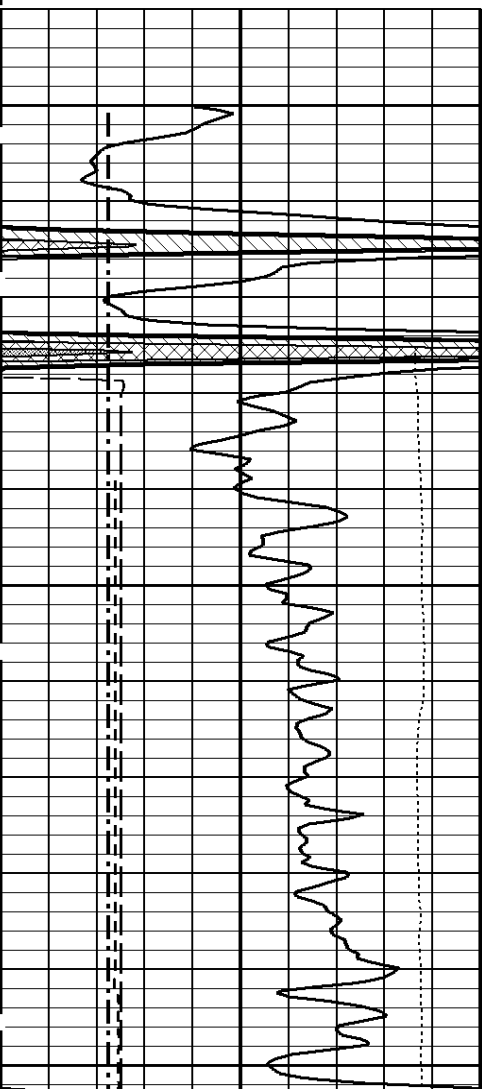


<b>TENSION LBS</b>	
10000	0
<b>BIT SIZE INCHES (IN)</b>	
4	14
<b>DENSITY (X) CALIPER INCHES (IN)</b>	
14 4	24 14
<b>NEUTRON (Y) CALIPER INCHES (IN)</b>	
14 4	24 14
<b>GAMMA RAY API UNITS</b>	
200 0	400 200

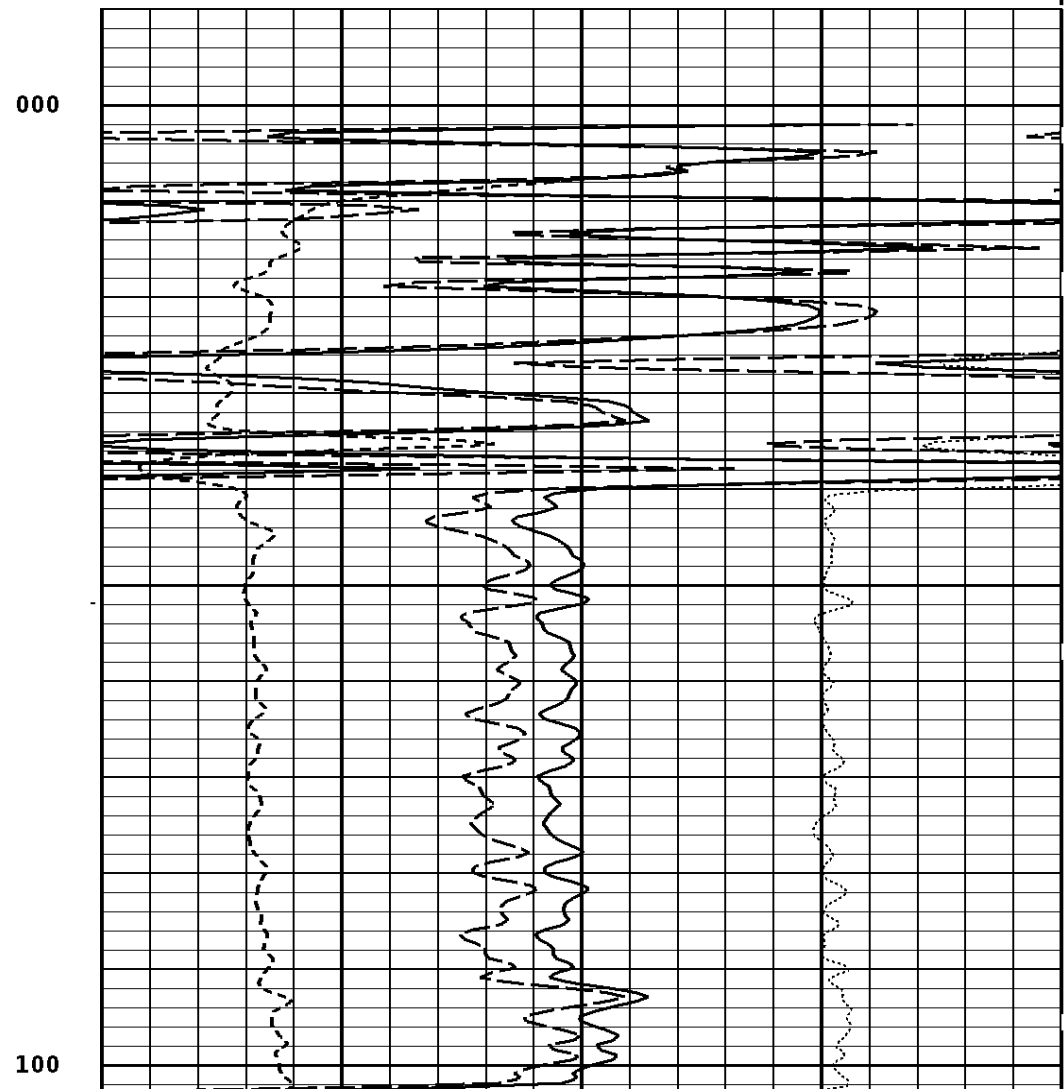
- BHV AHV -  
CU. FT

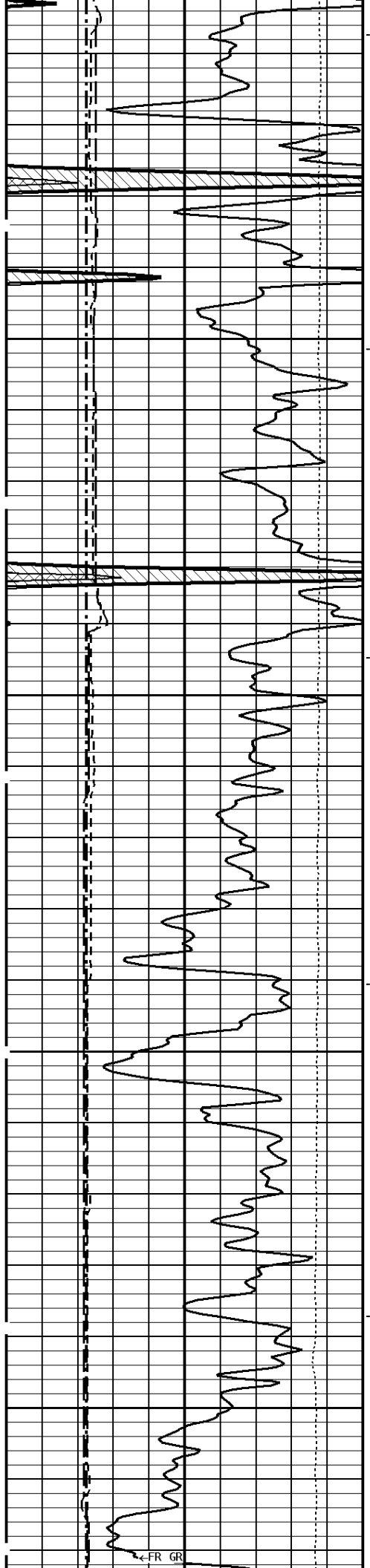
<b>PE CROSS-SECTION BARNS/ELECTRON</b>		<b>DENSITY CORRECTION G/CC</b>	
0	10	-0.25	0.25
<b>DENSITY POROSITY PERCENT (2.71 g/cc)</b>			
70 30 -10			30 -10 -50
<b>COMPENSATED BULK DENSITY G/CC</b>			
3.0 2.0 1.0			4.0 3.0 2.0

**1:240 MAIN SECTION  
BULK DENSITY**



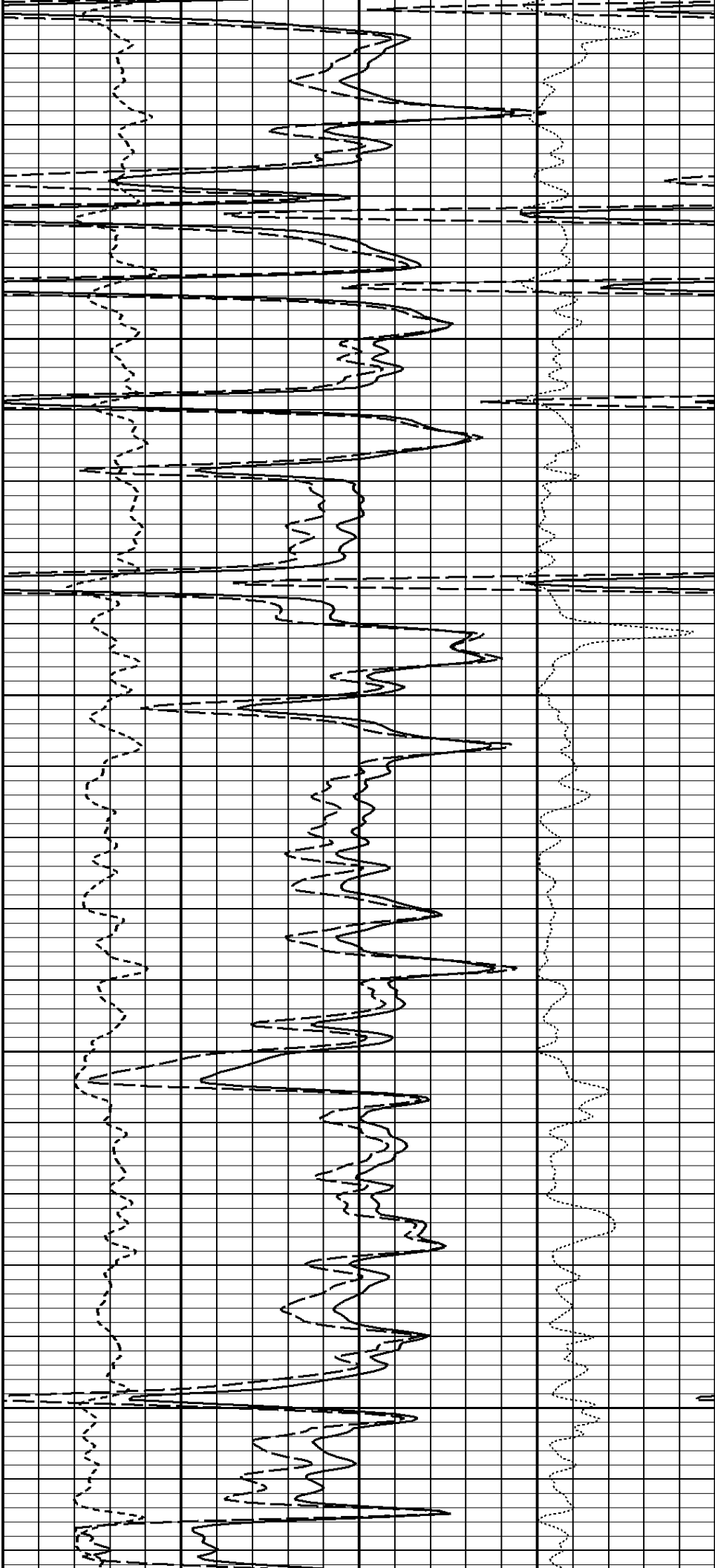
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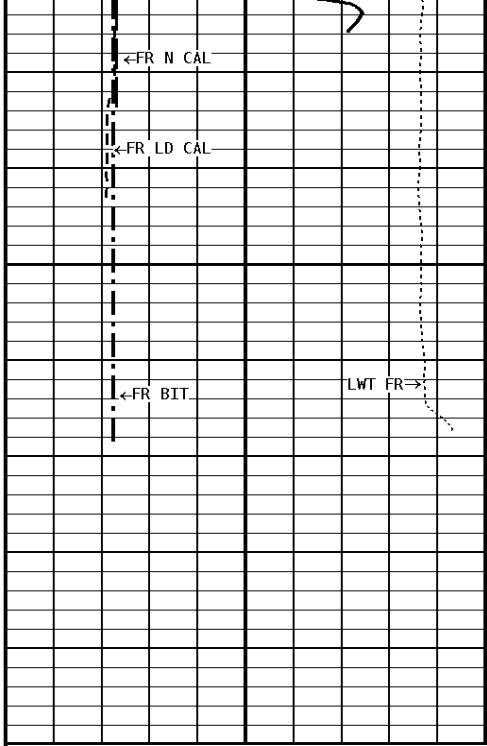




200

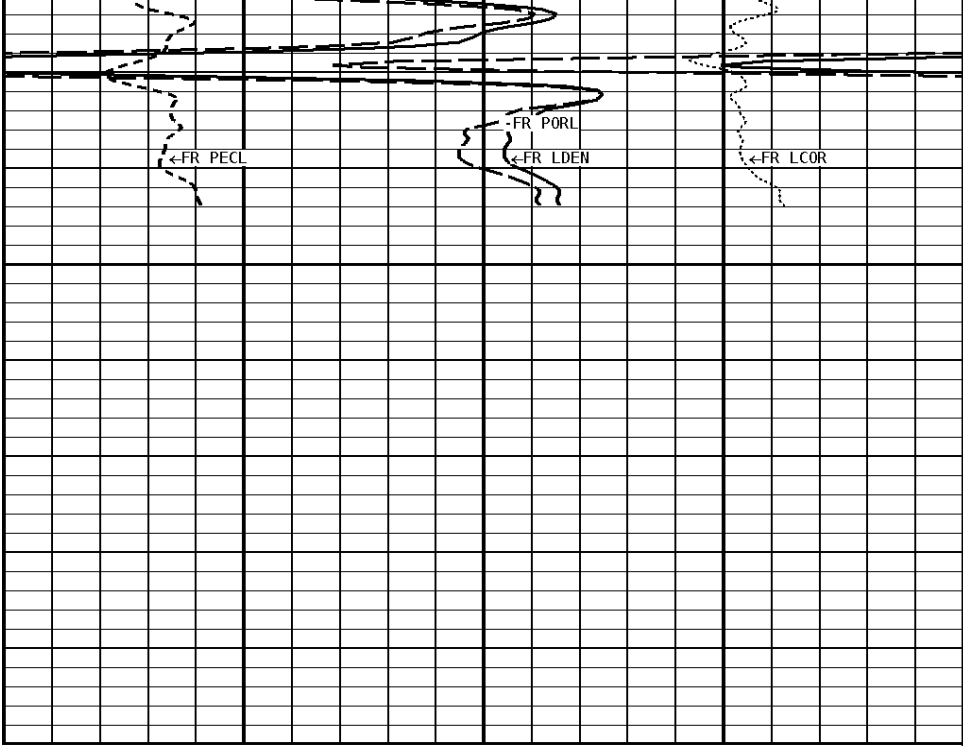
300





File #1.1.6

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**1:240 MAIN SECTION  
BULK DENSITY**

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

-BHV AHV- CU. FT	<b>COMPENSATED BULK DENSITY G/CC</b> 3.0 4.0 2.0 3.0 1.0 2.0	
	<b>DENSITY POROSITY PERCENT (2.71 g/cc)</b> 70 30 30 ----- -10 -10 ----- -50	
	<b>PE CROSS-SECTION BARNS/ELECTRON</b> 0 ----- 10	<b>DENSITY CORRECTION G/CC</b> -0.25 ----- 0.25

**\* Borehole Zone Factors \***

<b>Zone 1 99999.0 to 0.0 Feet</b>		
Matrix Density	_____	2.71 g/cc
Fluid Density	_____	1.00 g/cc
Formation Matrix	_____	Limestone
Drill Bit Size	_____	6.250 in
Casing Diameter	_____	2.875 in
Casing Correction (PHI N)	_____	Disable

**\* Calibration Summary \***

<b>Shen Calibration</b>
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Shop Calibration GRT-B						
Performed : 21-Aug-2009		Time : 15:26				
Sensor Suite : GR-GR5		ID : GRT-BA-14				
	Measured	Units	Calibrated	Units		
GR	Background	Jig	Jig	GRAPI		
	49	347	175			
Shop Calibration CNT-AA						
Performed : 26-JAN-2012		Time : 10:38				
Sensor Suite : CALI-BCN		ID : NDT-BD-123				
	Jig - Measured	Jig - Calibrated	Units			
	Ring#1 Ring#2	Ring#1 Ring#2				
CL # 1	6.3 11.3	6.0 12.0	IN.			
Shop Calibration LDT-DF						
Performed : 25-Jan-2012		Time : 10:27				
Sensor Suite : BHC NEUT		ID : CNP-AA-024				
Source ID : N-1046						
	Tank	Verification	Units			
	Measured	Jig				
N/F	3.8832	3.7187				
Porosity	23.6	20.9	%			
Shop Calibration LDT-DF						
Performed : 26-OCT-2011		Time : 09:52				
Sensor Suite : CALI-LTH		ID : PDT-GA-466				
	Jig - Measured	Jig - Calibrated	Units			
	Ring#1 Ring#2	Ring#1 Ring#2				
CL # 1	8.6 11.9	6.0 12.0	IN.			
Performed : 25-Jan-2012		Time : 11:26				
Sensor Suite : BHCPELNG		ID : LDP-DA-067				
Source ID : 2991GW						
Short Space						
	BKGD	Al	Mg	Al+Fe	Units	
LSW1	65	1156	1881	748	CPS	
LSW2	71	1352	2166	967	CPS	
LSW3	259	3083	4989	2607	CPS	
LSW4	316	2838	4180	2501	CPS	
LSW5	39	70	79	66	CPS	
LSW6	73	80	78	79	CPS	
LSW7	54	57	58	56	CPS	
LSW8	7	9	11	9	CPS	
QS	0.148	0.172	0.149	0.168		
PES			2.778	5.967		
SSDN		2.600	1.680		G/CC	
Long Space						
	BKGD	Al	Mg	Al+Fe	Units	
LLW1	93	1346	5490	813	CPS	
LLW2	104	2407	9385	1742	CPS	
LLW3	401	4286	16345	3711	CPS	
LLW4	515	2008	6544	1816	CPS	
LLW5	57	68	133	67	CPS	
LLW6	171	164	159	169	CPS	
LLW7	108	104	99	103	CPS	
LLW8	3	6	18	6	CPS	
QL	0.227	0.223	0.231	0.240		
PEL			2.697	5.458		
LSDN		2.600	1.680		G/CC	