

Tucker
ENERGY SERVICES

COMPENSATED NEUTRON

PEL DENSITY LOG

Company		RUNNING FOXES PETROLEUM N	
Well		VALENTINE 2-24	
Field		WILDCAT	
County		BOURBON	
State		KANSAS	
Country		USA	
API No.		15-011-24466-0000	
File No		: TUL 59719	
Company		: RUNNING FOXES PETROLEUM INC.	
Well		: VALENTINE 2-24	
Field		: WILDCAT	
County		: BOURBON	
State		: KANSAS	
Country		: USA	
API No		: 15-011-24466-0000	
Location		: 660' FNL & 660' FWL NW	
LSD :		Sect : 24 Twp : 24 S Rge : 25 E	
Permanent Datum:		GL	
Drilling Measured From:		GL	
Log Measured From:		GL	
Above Permanent Datum:		0.00 Ft	
Date		07-22-2014	
Run Number		1	
Depth--Driller		470.0 Ft	
Depth--Logger		467.0 Ft	
First Reading		443.0 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 WATER	
Density		0.0	
Fluid Loss		0.0	
PH/Viscosity		0.0	
Sample Source		MEASURED	
RMF@Measured Temp.		0.000 @ 0 F	
RMF@Measured Temp		0.000 @ 0 F	
RMC@Measured Temp.		0.000 @ 0 F	
Source RMF/RMC		CALCULATED/CALCULATED	
RM@BHT		0.000 @ 82 F	
Time Circulation Stopped		07-22-2014 8:00 am	
Max Recorded Temp.		82 F	
Equipment/Base		TRUCK 127 TULSA	
Recorded By		R. KING	
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	470.00	8.625	24.00	20.00	0.00

Run Number	1	
Date	07-22-2014	
Date/Time On Bottom	07-22-2014 9:15 am	
Depth to Fluid	0.0 Ft	
Salinity	0.000	
RMF@BHT	0.000 @ 82 F	
RMC@BHT	0.000 @ 82 F	

Run Number 1

Comments

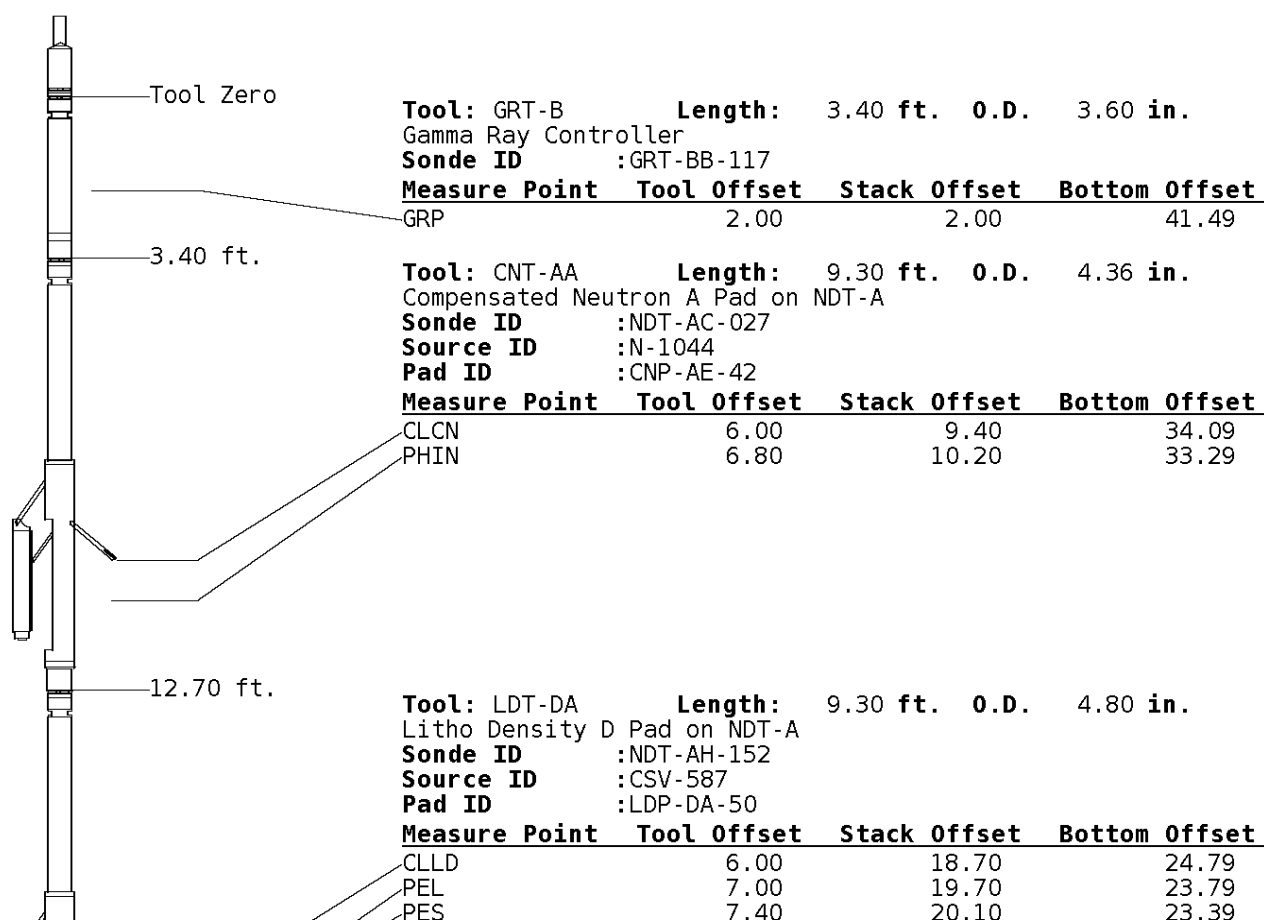
ALL PRESENTATIONS AS PER CUSTOMER REQUEST
 GRT, CNT, LDT, AND PIT RUN IN COMBINATION
 CALIPERS ORIENTED ON X-Y AXIS
 2.71 G/CC USED TO CALCULATE POROSITY
 NO CASING BEING USED
 PHIN IS CALIPER CORRECTED

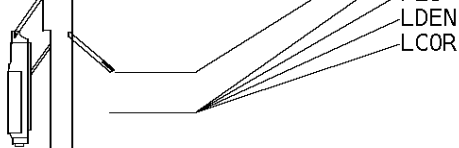
GRT: GRP
 CNT: PHIN, CLCNIN
 LDT: PORL, LCORN, PECLN, LDENN, PORLLS, CLLDIN
 PIT: ILD, ILM, SPU, SFLAEC, CIRD

OPERATORS:
 J. THOMAS
 B. BROWN

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

Tool: PIT-CA **Length:** 21.49 ft. **O.D.** 3.62 in.
 Phased Dual Induction w/ RM & D
Sonde ID :PIT-CA-062

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 VALENTINE2-24 JUL22-STK

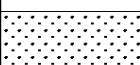
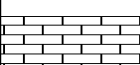
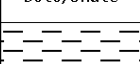
Scale: 1:240 **Format:** NLD-240

Segment: V1.D1.S7 MAIN-RP0

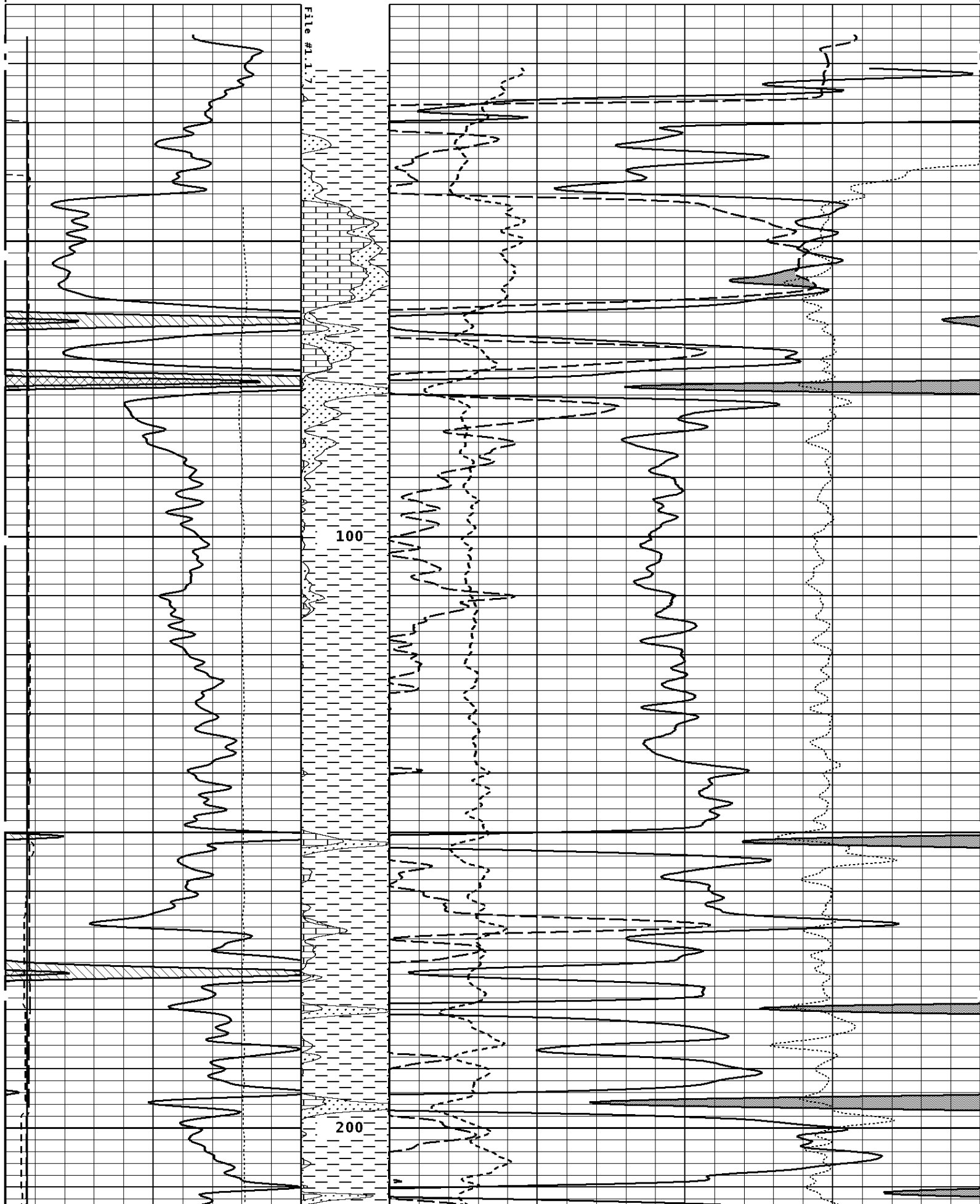
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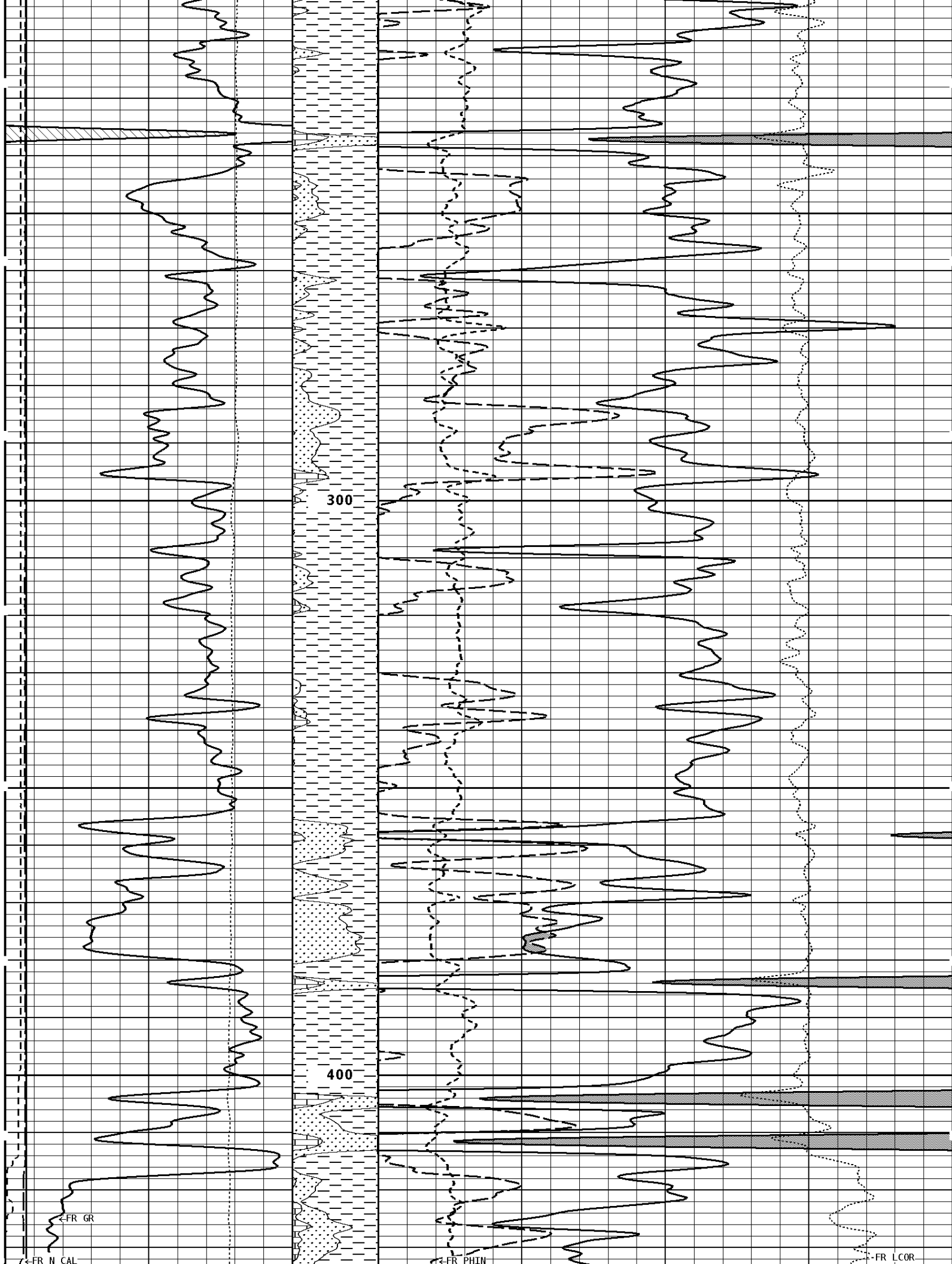
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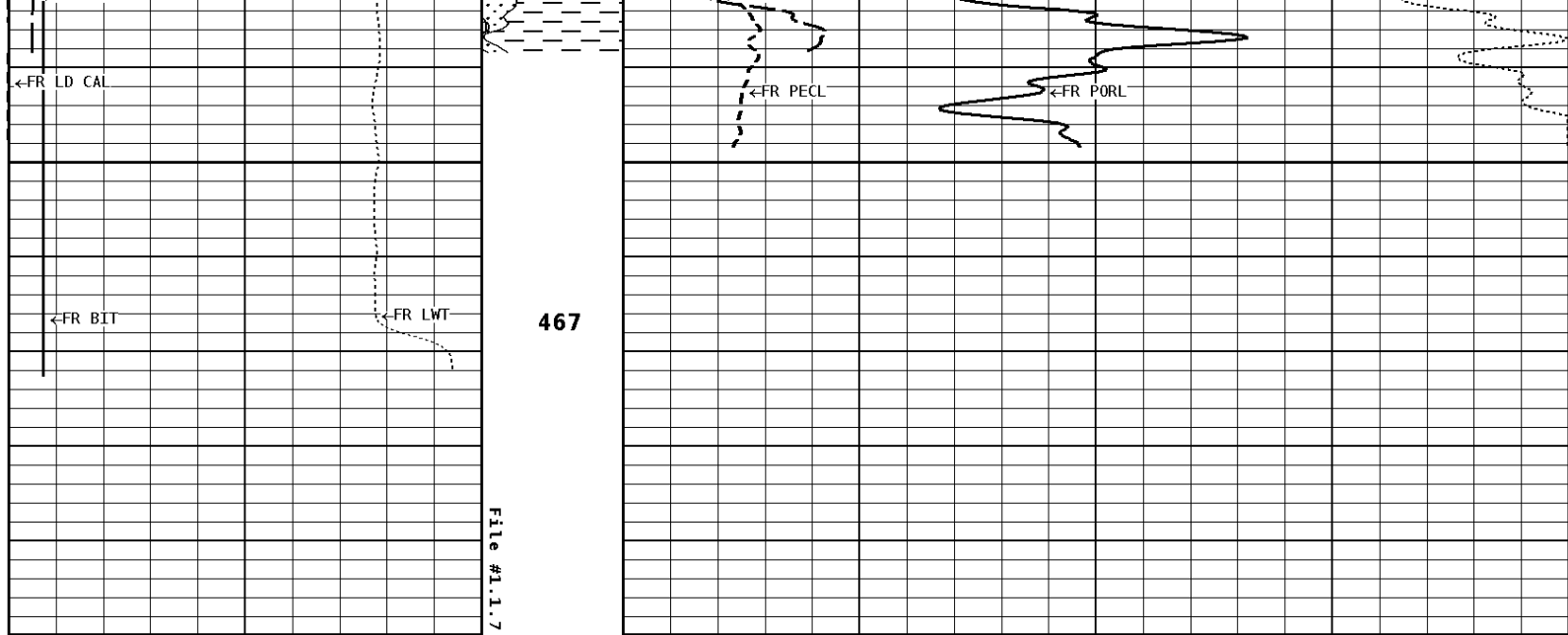
Processed: 2014-07/22 10:06 3.5.0-12850

BIT SIZE INCHES (IN) 6 16			
NEUTRON (Y) CALIPER INCHES (IN) 16 26 6 16			
DENSITY (X) CALIPER INCHES (IN) 16 26 6 16		Volume Quartz 	PE CROSS-SECTION BARNs/ELECTRON 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

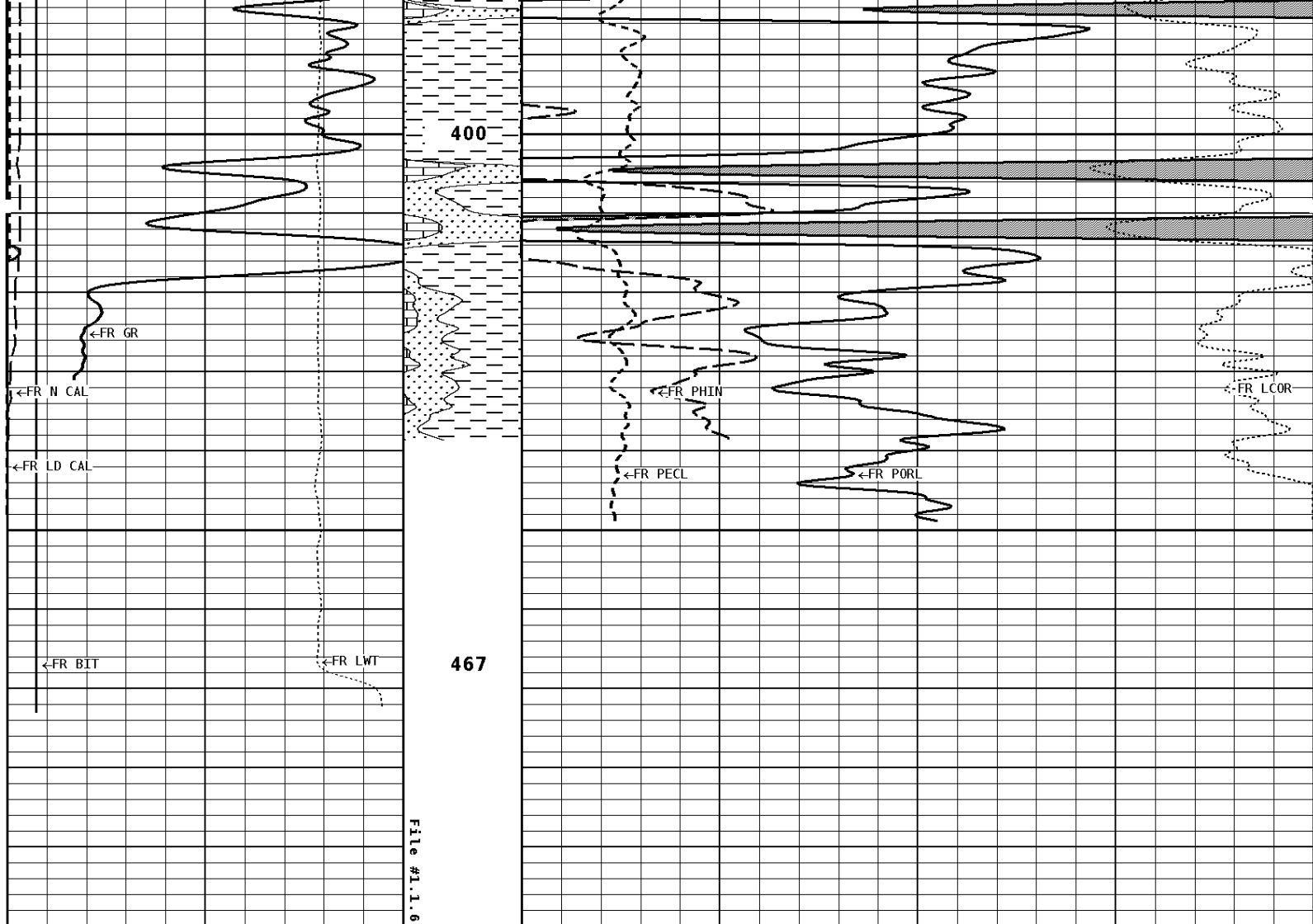
GAMMA RAY API UNITS 200 0 400 200		Volume Dolo/Shale 30	NEUTRON POROSITY (LIMESTONE) PERCENT -10	
TENSION LBS 10000 0		Volume Calcite 70 30 -10	DENSITY POROSITY (2.71g/cc) PERCENT 30 -10 -50	
DENSITY (X) CALIPER INCHES (IN) 16 6 26 16		Volume Quartz 0 10	PE CROSS-SECTION BARNS/ELECTRON	DENSITY CORRECTION G/CC -0.25 0.25
NEUTRON (Y) CALIPER INCHES (IN) 16 6 26 16				
BIT SIZE INCHES (IN) 6 16				

* 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		0.000	in
Casing Thickness		0.250	in
Casing Correction (PHI N)		Disable	

Well File: RFP VALENTINE2-24 JUL22-STK	Scale: 1:240	Format: NLD-240
Segment: V1.D1.S6 REPEAT-RP0	Acquired: 2014-07/22 09:09 3.5.0-12850	
Reference: 0	Processed: 2014-07/22 10:06 3.5.0-12850	

BIT SIZE INCHES (IN)	
6	16



1:240 REPEAT SECTION

GAMMA RAY API UNITS 200 0 400 200		Volume Dolo/Shale 30	NEUTRON POROSITY (LIMESTONE) PERCENT -10	
TENSION LBS 10000 0		Volume Calcite 70 30 -10	DENSITY POROSITY (2.71g/cc) PERCENT 30 -10 -50	
DENSITY (X) CALIPER INCHES (IN) 16 6 26 16		Volume Quartz 0 10	PE CROSS-SECTION BARNS/ELECTRON	DENSITY CORRECTION G/CC -0.25 0.25
NEUTRON (Y) CALIPER INCHES (IN) 16 6 26 16				
BIT SIZE INCHES (IN) 6 16				

* Borehole Zone Factors *

Zone 1	99999.0	to	0.0	Feet
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Matrix Density	2.71	g/cc
Fluid Density	1.00	g/cc
Formation Matrix	Limestone	
Drill Bit Size	6.750	in
Casing Diameter	0.000	in
Casing Thickness	0.250	in
Casing Correction (PHI N)	Disable	

Well File: RFP VALENTINE2-24 JUL22-STK

Scale: 1:240

Format: LDT-240

Segment: V1.D1.S7 MAIN-RP0

Acquired: 2014-07/22 09:21 3.5.0-12850

Reference: 0

Processed: 2014-07/22 10:06 3.5.0-12850

BIT SIZE
INCHES (IN)

6 16

NEUTRON (Y) CALIPER
INCHES (IN)

16 26
6 16

DENSITY (X) CALIPER
INCHES (IN)

16 26
6 16

TENSION
LBS

10000 0

GAMMA RAY
API UNITS

200 400
0 200

PE CROSS-SECTION
BARNs/ELECTRON

0 10 -0.25 0.25

DENSITY CORRECTION
G/CC

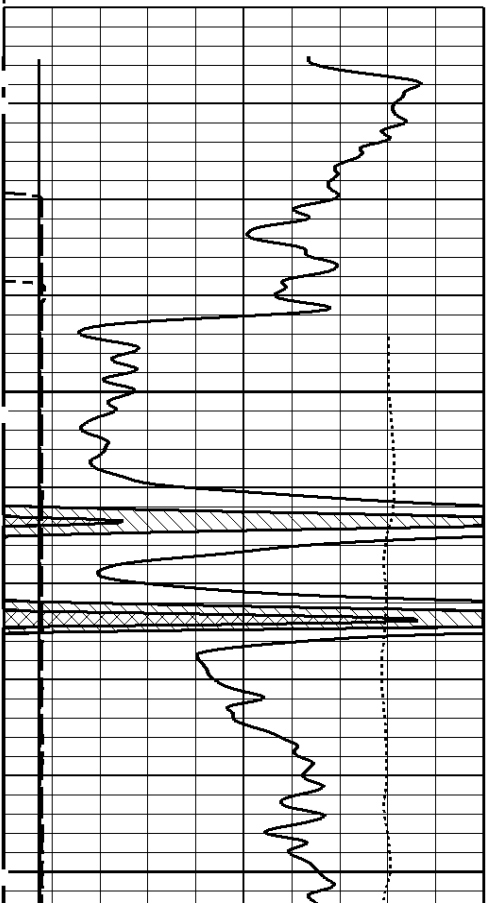
COMPENSATED BULK DENSITY
G/CC

3.0 4.0
2.0 3.0
1.0 2.0

DENSITY POROSITY (2.71g/cc)
PERCENT

70 30
30 -10
-10 -50

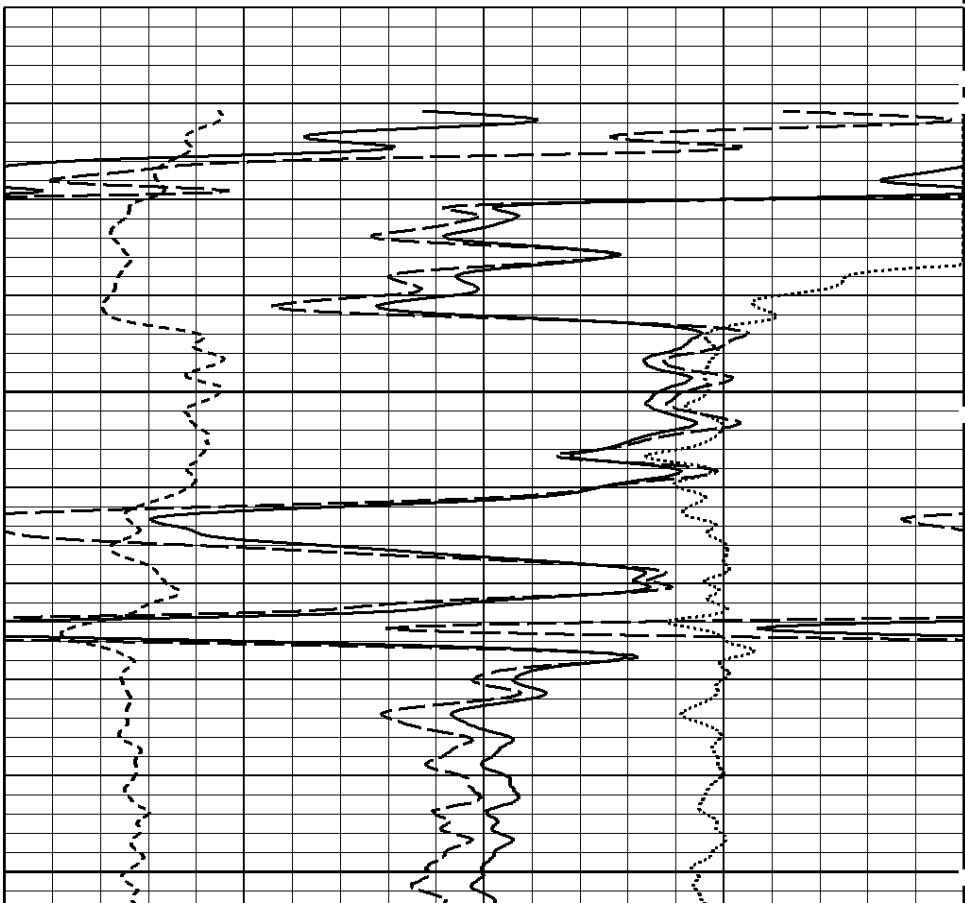
1:240 MAIN SECTION BULK DENSITY

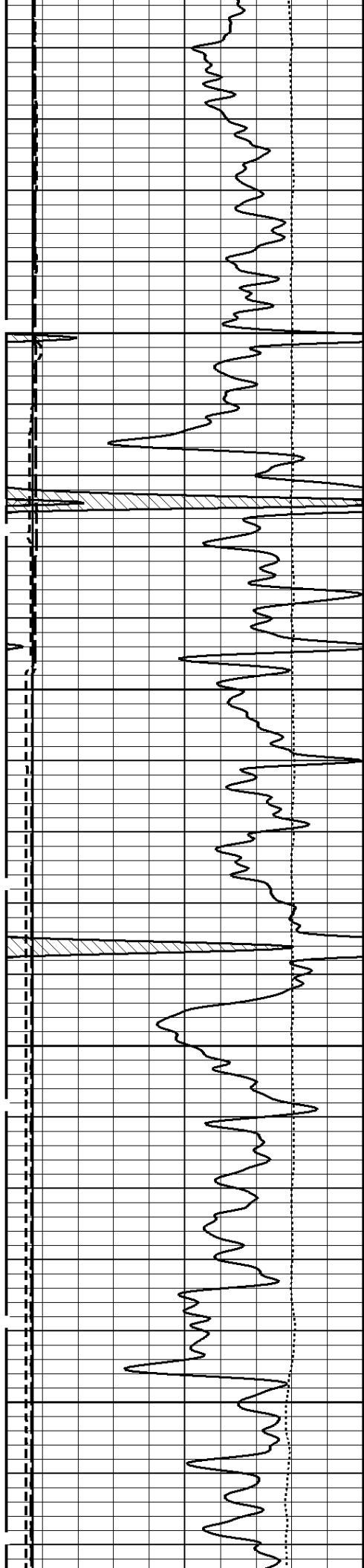


File #1.1.7

--10C100Cu.Ft--

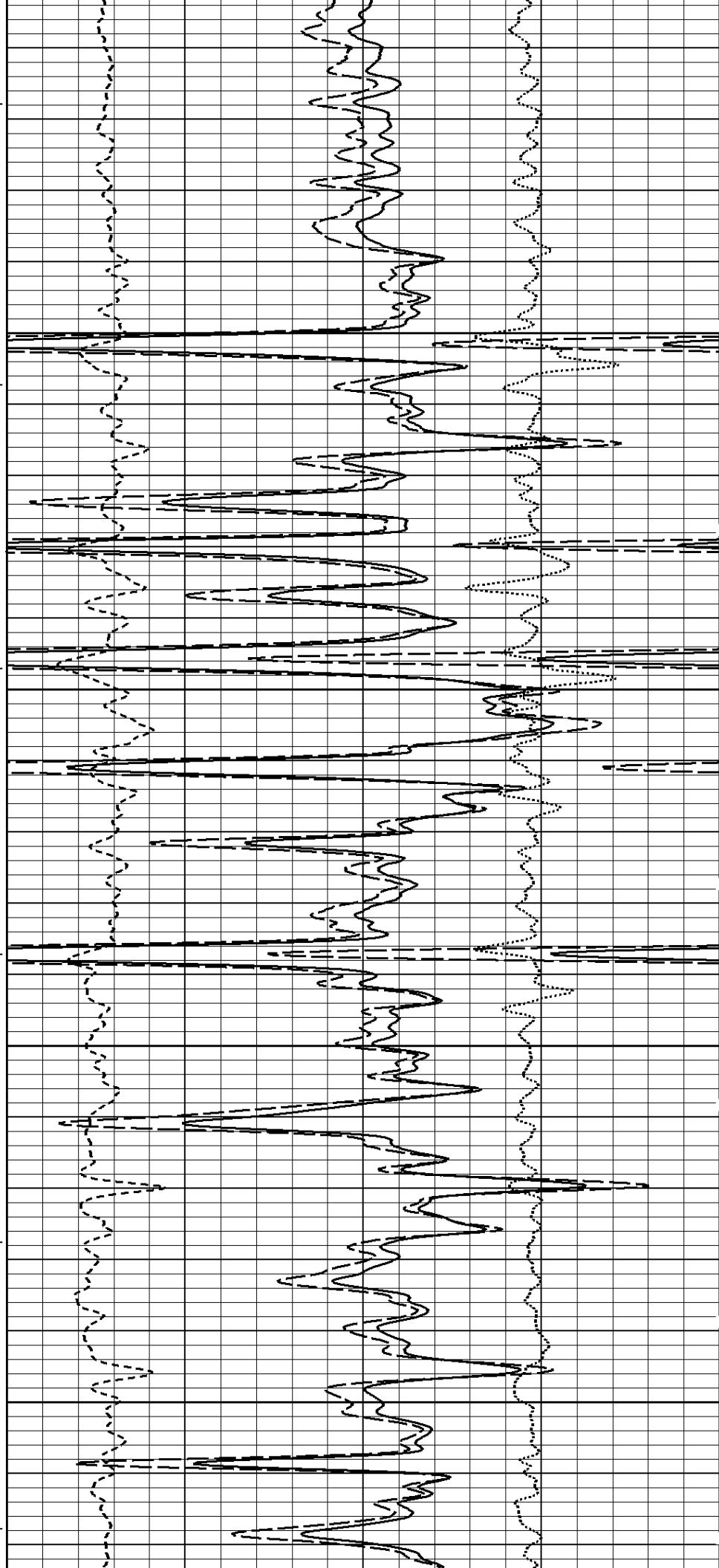
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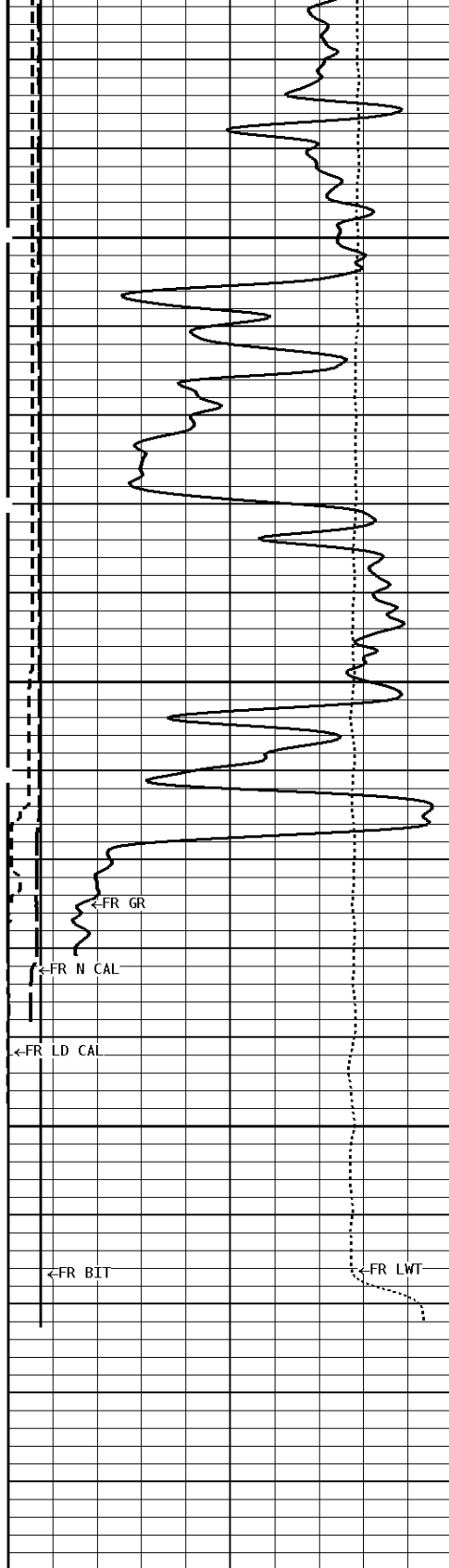




200

300

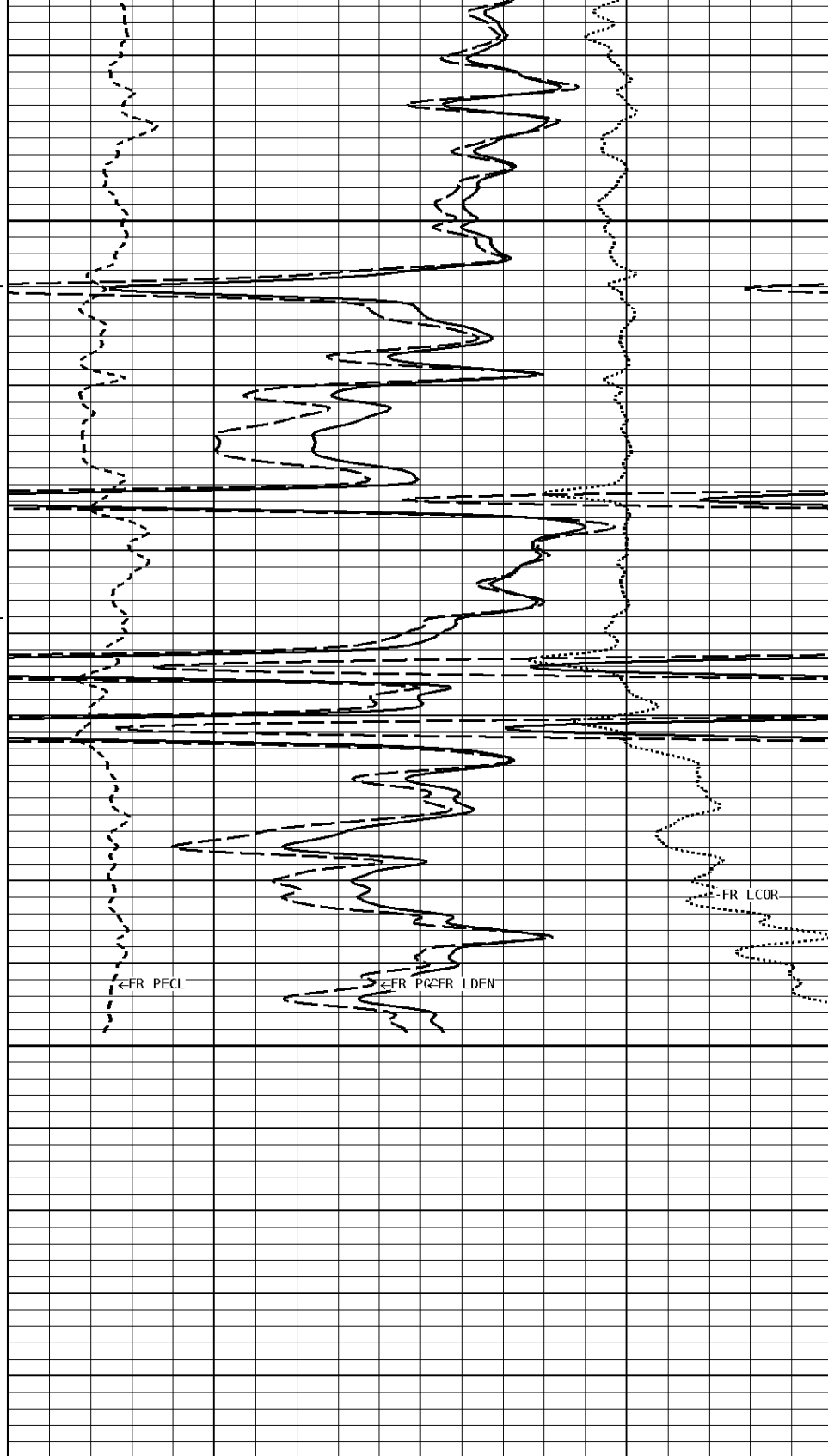




400

467

File #1.1.7



1:240 MAIN SECTION BULK DENSITY

GAMMA RAY API UNITS 200 0 400 200	-BHV AHV- CU, FT	DENSITY POROSITY (2.71g/cc) PERCENT 70 30 -10 30 -10 -50
TENSION LBS 10000 0		COMPENSATED BULK DENSITY G/CC 3.0 4.0 2.0 3.0

DENSITY (X) CALIPER INCHES (IN)	
16	26
6	16

NEUTRON (Y) CALIPER INCHES (IN)	
16	26
6	16

BIT SIZE INCHES (IN)	
6	16

1.0	2.0
PE CROSS-SECTION BARN/ ELECTRON	
0	10

DENSITY CORRECTION G/CC	
-0.25	0.25

*** 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_____ 0.000 in					
Casing Correction (PHI N)_____ Disable					

*** Calibration Summary ***

Shop Calibration GRT-B					
Performed : 27-JUN-2014			Time : 09:08		
Sensor Suite : GR-GR5			ID : GRT-BB-117		
	Measured	Units	Calibrated	Units	
	Background Jig		Jig		
GR	43 344	CPS	175		GRAPI

Shop Calibration CNT-AA					
Performed : 27-JUN-2014			Time : 10:08		
Sensor Suite : CALI-BCN			ID : NDT-AC-027		
	Jig - Measured		Jig - Calibrated		Units
	Ring#1	Ring#2	Ring#1	Ring#2	
CL # 1	8.0	14.6	6.0	12.0	IN.

Performed : 27-Jun-2014			Time : 10:23		
Sensor Suite : BHC NEUT			ID : CNP-AE-42		
Source ID : N-1044					
	Tank	Verification	Units		
	Measured	Calibrated	Jig		
N/F	3.6222	3.6893	3.7132		
Porosity	19.5	20.5	20.9	%	

Shop Calibration LDT-DA					
Performed : 15-Jul-2014			Time : 10:09		
Sensor Suite : CALI-LTH			ID : NDT-AH-152		
	Jig - Measured		Jig - Calibrated		Units
	Ring#1	Ring#2	Ring#1	Ring#2	
CL # 1	7.4	10.7	6.0	12.0	IN.

Performed : 27-Jun-2014			Time : 09:25		
Sensor Suite : BHCPELNG			ID : LDP-DA-50		
Source ID : CSV-587					
Short Space					
	BKGD	Al	Mg	Al+Fe	Units
LSW1	70	453	727	313	CPS
LSW2	77	540	856	401	CPS
LSW3	287	1334	2063	1158	CPS
LSW4	346	1274	1752	1140	CPS
LSW5	32	41	40	40	CPS
LSW6	96	96	96	95	CPS
LSW7	57	60	58	60	CPS
LSW8	2	2	3	2	CPS

LLW0					
QS	0.257	0.232	0.248	0.231	CPS
PES			2.778	5.967	
SSDN		2.600	1.680		G/CC
Long Space					
	BKGD	Al	Mg	Al+Fe	Units
LLW1	104	534	2162	346	CPS
LLW2	115	909	3677	674	CPS
LLW3	426	1813	6565	1589	CPS
LLW4	567	1102	2744	1024	CPS
LLW5	65	69	82	68	CPS
LLW6	172	169	163	168	CPS
LLW7	115	113	108	114	CPS
LLW8	5	6	10	6	CPS
QL	0.199	0.199	0.206	0.193	
PEL			2.697	5.458	
LSDN		2.600	1.680		G/CC



Tucker
ENERGY SERVICES

Company: RUNNING FOXES PETROLEUM INC.

Well: VALENTINE 2-24

Location: 660' FNL & 660' FWL

Logged: 07-22-2014

K.B. Elev: 0.0 Ft