



Tucker
ENERGY SERVICES

PHASED INDUCTION

SHALLOW FOCUS SP 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:		GL		Elevations:	
Drilling Measured From:		GL		KB 0.00	
Log Measured From:		GL		DF 0.00	
Above Permanent Datum:		0.00 Ft		GL 877.00	
Date		07-17-2014		Services:	
Run Number		1		CNT	
Depth--Driller		460.0 Ft		LDT	
Depth--Logger		459.0 Ft		PIT	
First Reading		459.0 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			
RMF@Measured Temp.		1.300 @ 60 F			
RMF@Measured Temp		1.100 @ 60 F			
RMC@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

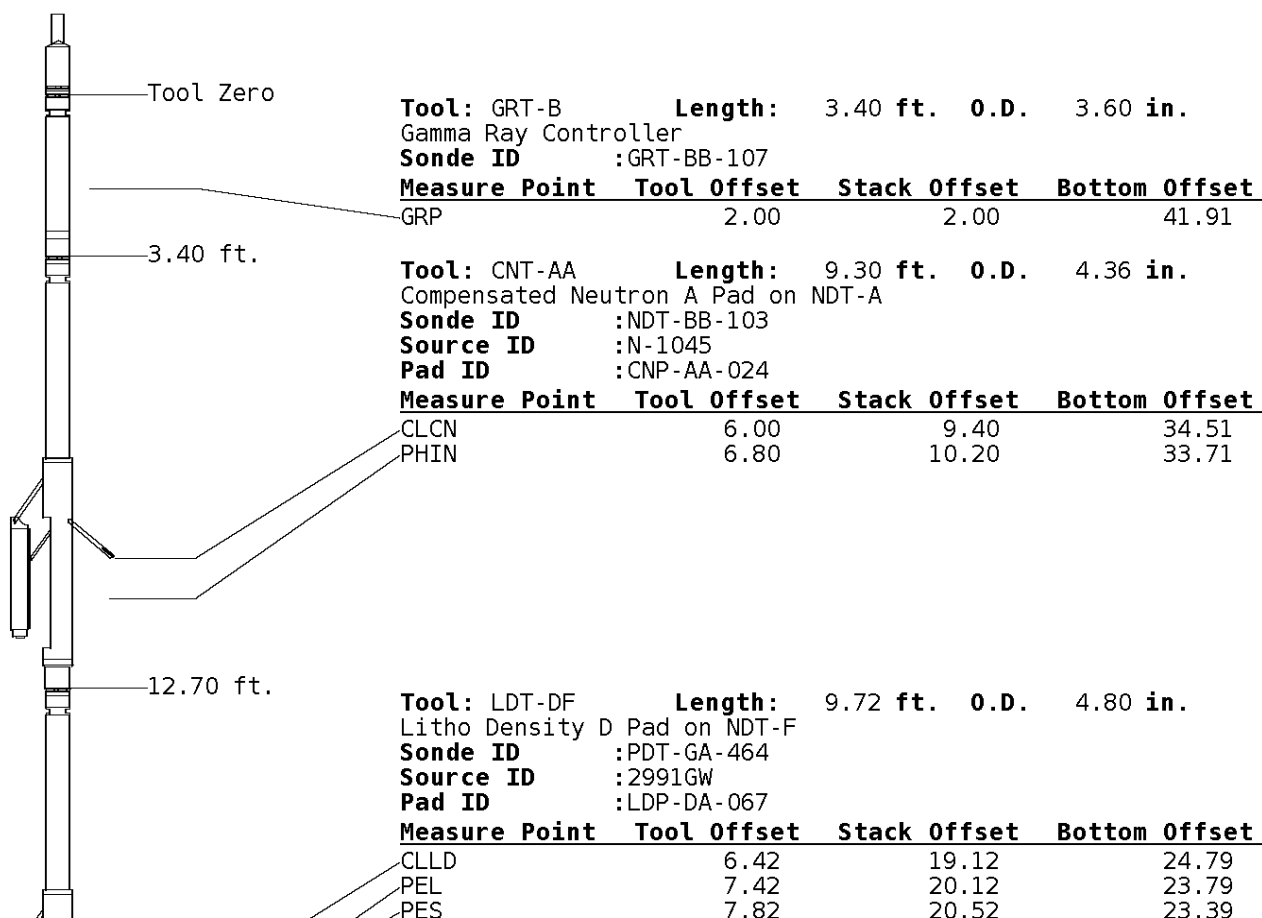
GRT; GRP
 CNT; PHIN, CLCNIN
 LDT; PORL, LCORN, PECLN, LDENN, CLLDIN
 PIT; ILD, ILM, SPU, SFLAEC, CIRD

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: 1:600 **Format:** DIL-600

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

TENSION
LBS

10000

0

DEEP INDUCTION
OHMM

0.0 500.0
0.0 50.0

SPONTANEOUS POTENTIAL
mV

→ | ← 30

SHALLOW FOCUSED RESISTIVITY
OHMM

0.0 500.0
0.0 50.0

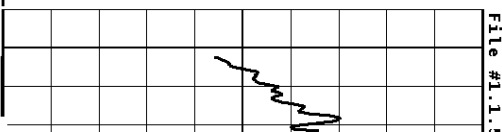
GAMMA RAY
API UNITS

200 400
0 200

DEEP CONDUCTIVITY
MMHO

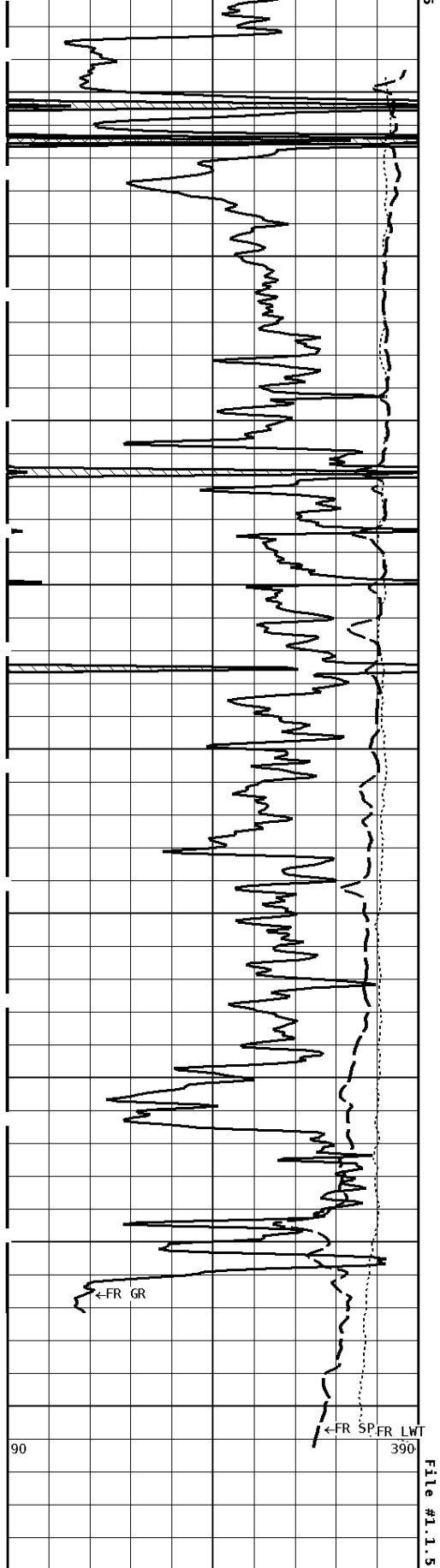
2000 1000
1000 0

1:600 MAIN SECTION



File #1.1.1

000



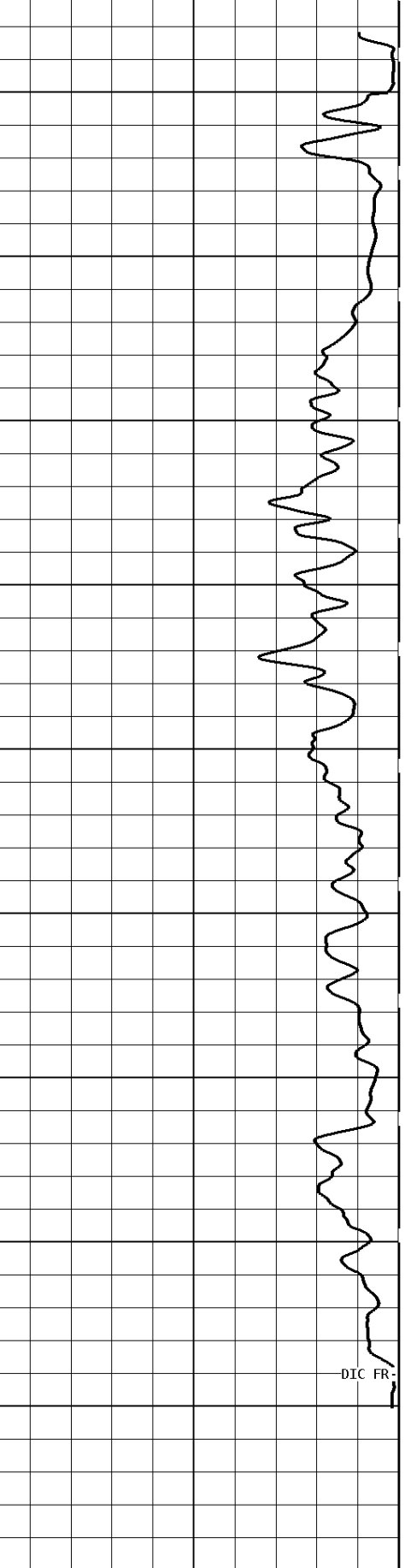
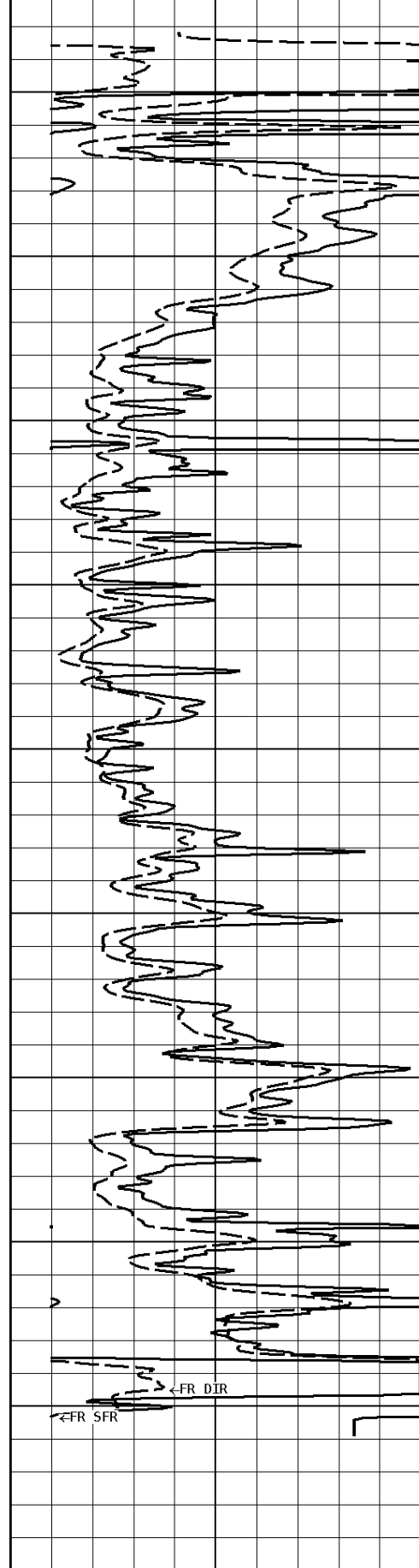
100

200

300

400

459



1:600 MAIN SECTION



SPONTANEOUS POTENTIAL mV → ← 30	
TENSION LBS 10000 0	

SHALLOW FOCUSED RESISTIVITY OHMM 0.0 500.0 0.0 50.0	
DEEP INDUCTION OHMM 0.0 500.0 0.0 50.0	

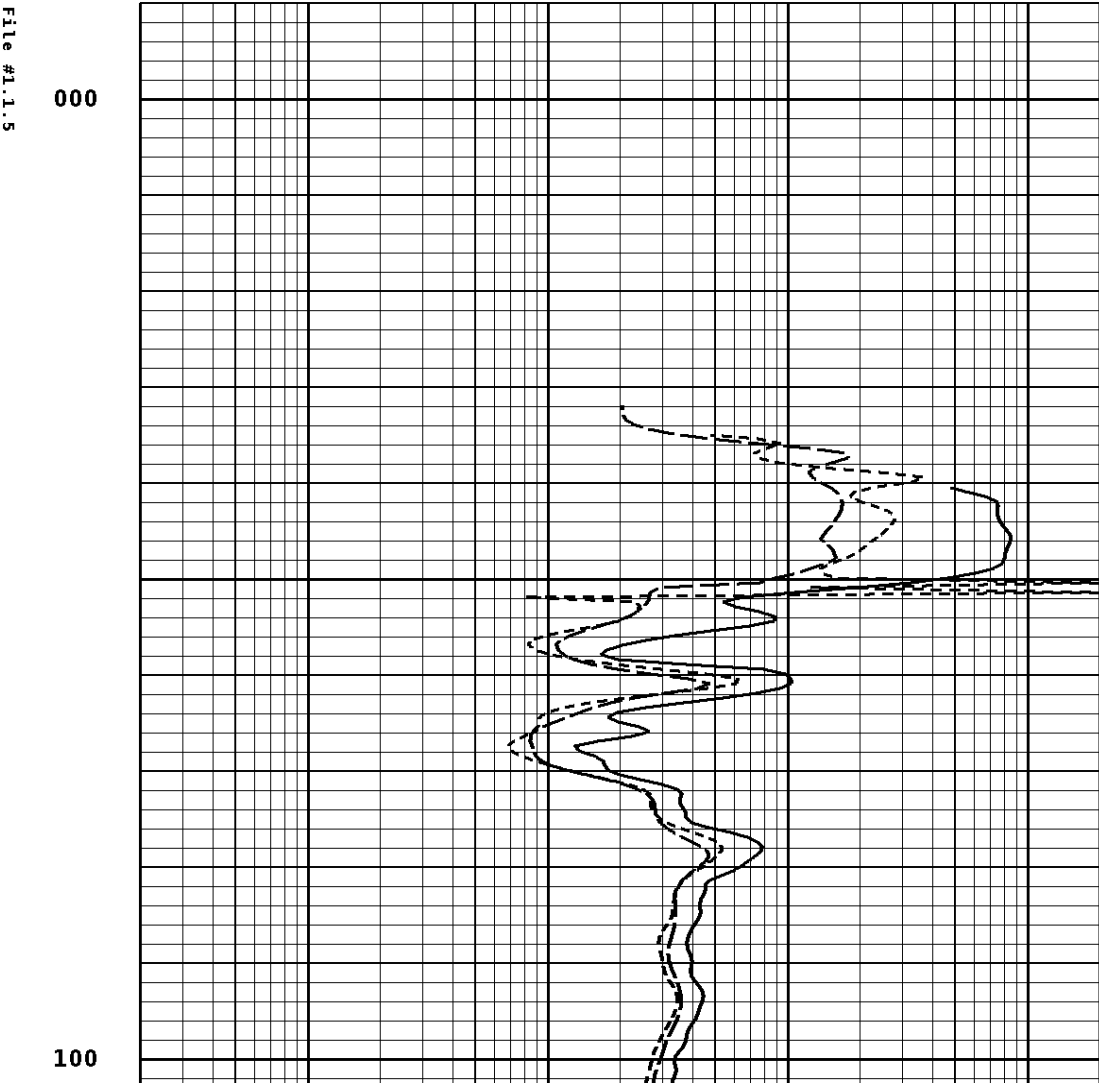
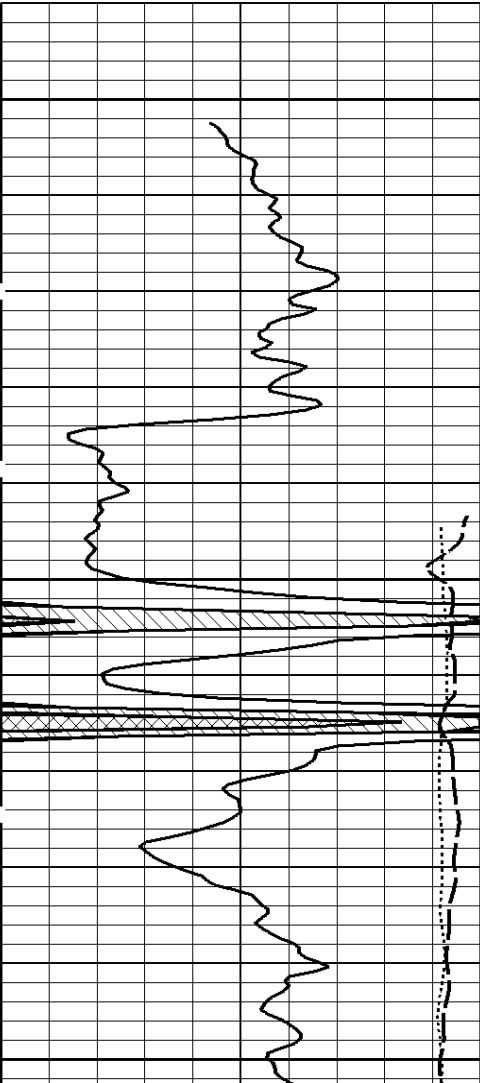
Well File: run-val-8-24a-4-stk-jul-17
Segment: V1.D1.S5 MN
Reference: 0

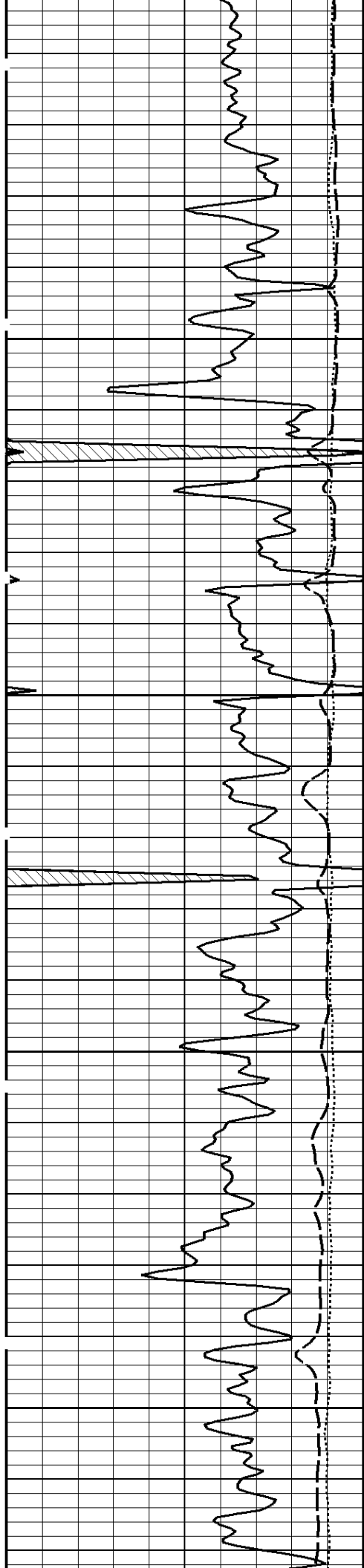
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Acquired: 2014-07/17 10:18 3.3.0-12594
Processed: 2014-07/17 10:35 3.3.0-12594

Format: DIL-240

SPONTANEOUS POTENTIAL mV → ← 30 TENSION LBS 10000 0 GAMMA RAY API UNITS 200 0 400 200		DEEP INDUCTION OHMM 0.2 2000.0
		MEDIUM INDUCTION OHMM 0.2 2000.0
		SHALLOW FOCUSED RESISTIVITY OHMM 0.2 2000.0

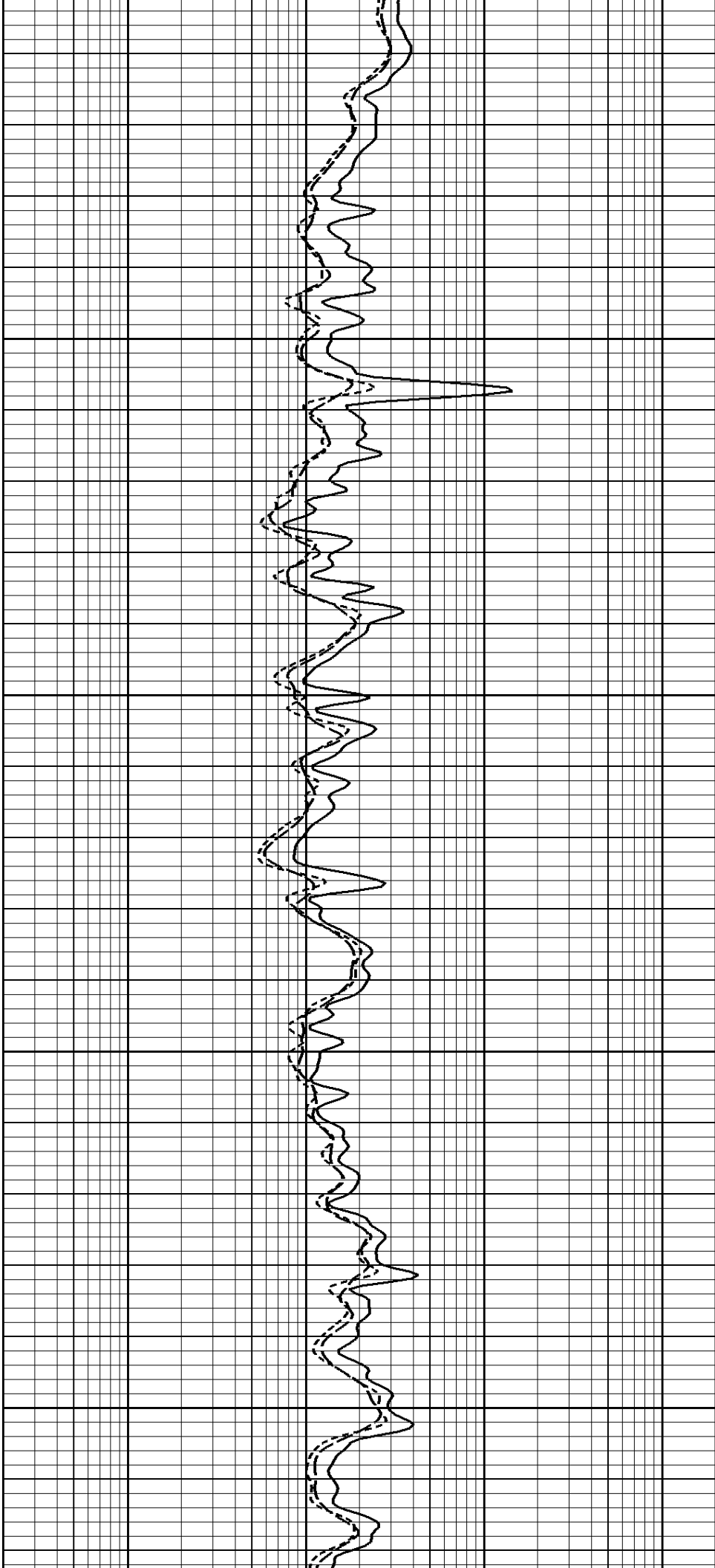
1:240 MAIN SECTION

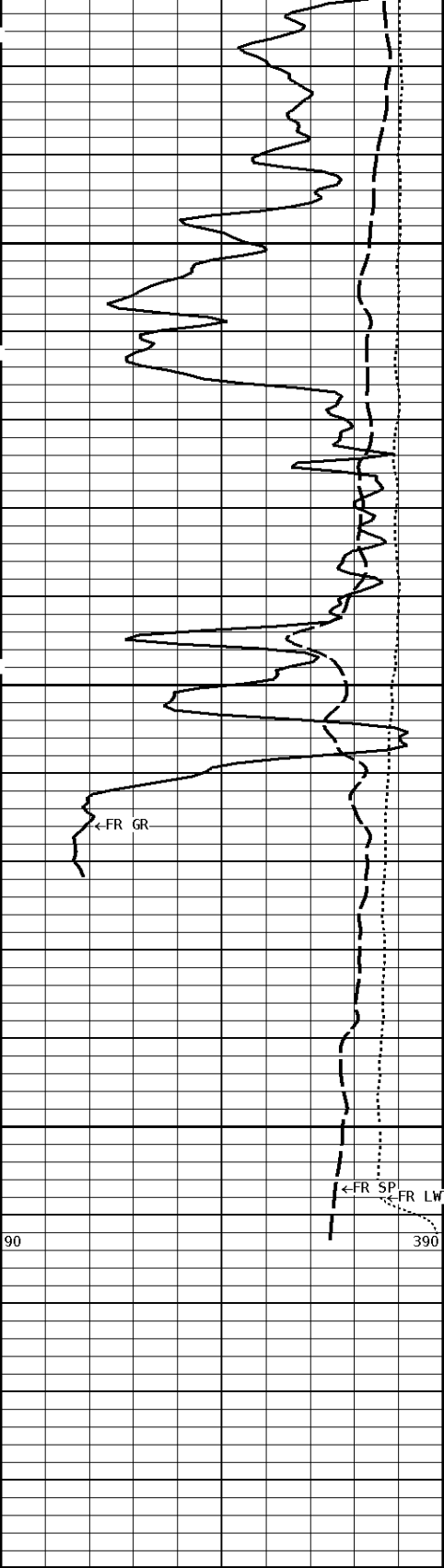




200

300

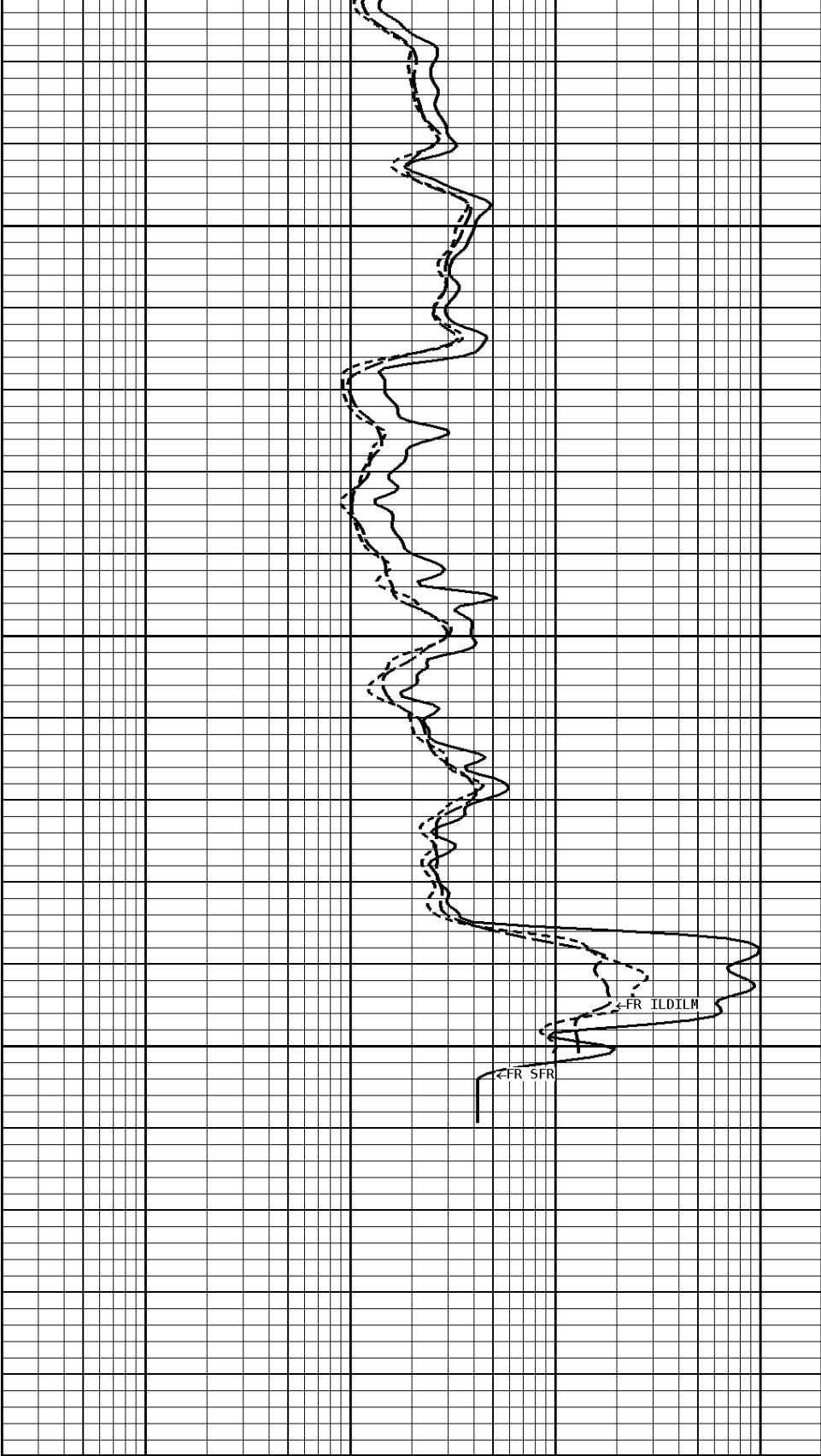




400

459

1:240 MAIN SECTION



GAMMA RAY
API UNITS

200 0 400 200

TENSION
LBS

10000 0

SHALLOW FOCUSED RESISTIVITY
OHMM

0.2

2000.0

MEDIUM INDUCTION
OHMM

0.2

2000.0

SPONTANEOUS POTENTIAL mV	
→	← 30

DEEP INDUCTION OHMM	
0.2	2000.0

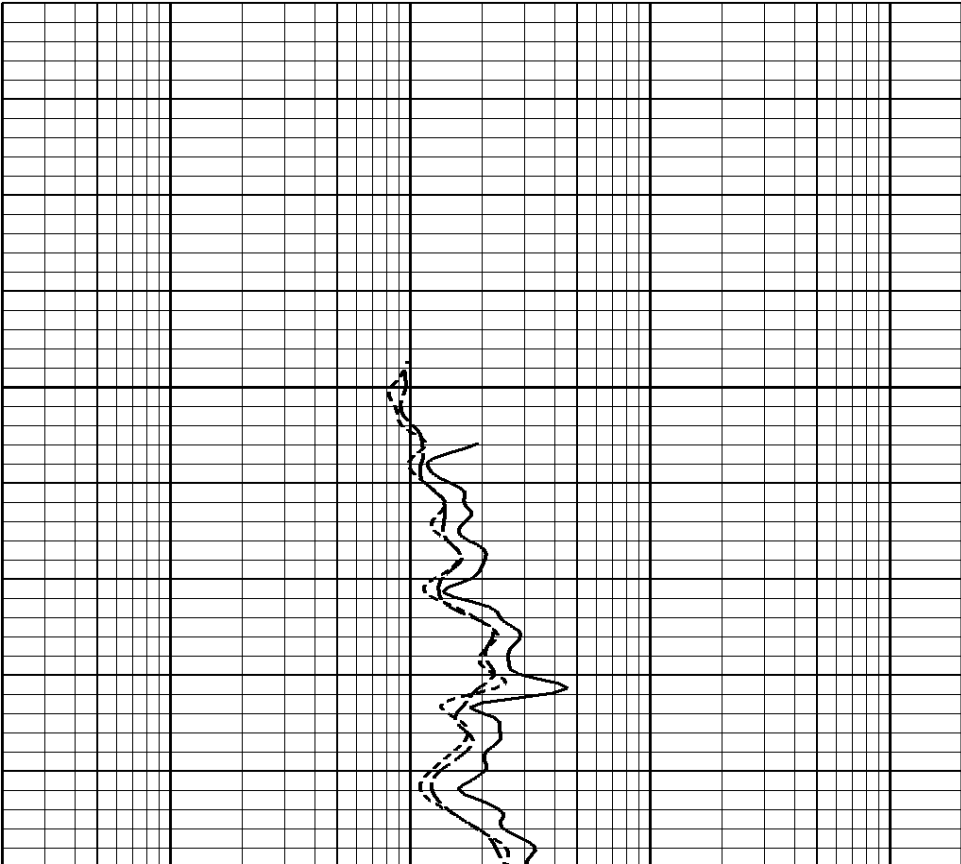
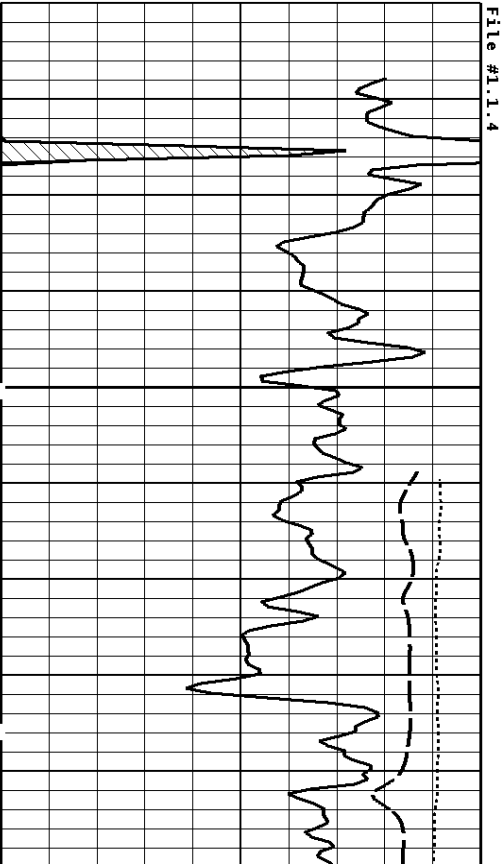
*** Borehole Zone Factors ***

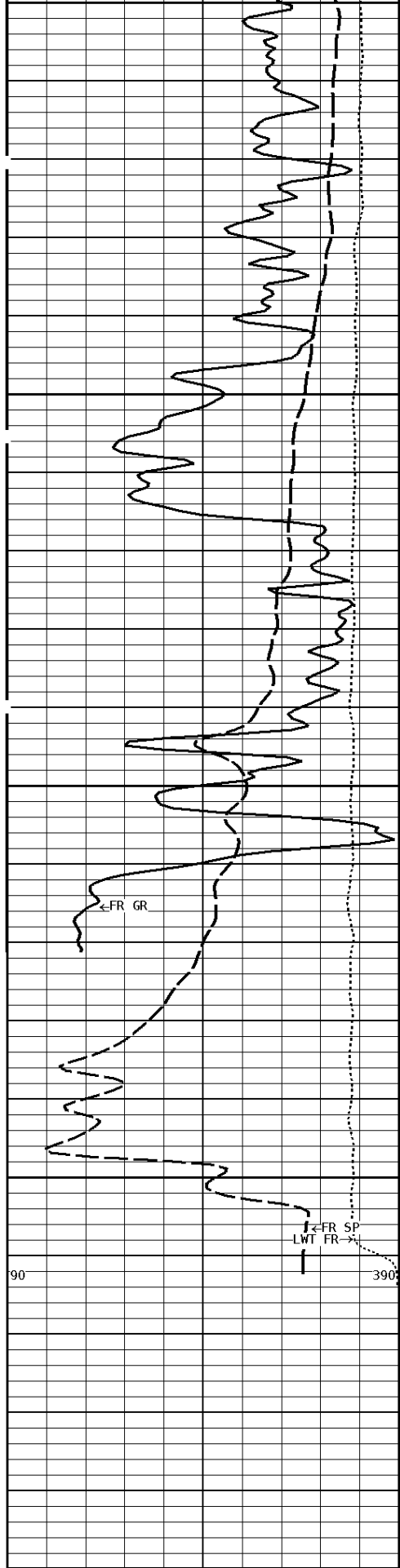
Zone 1 99999.0 to 0.0 Feet	
Drill Bit Size	6.750 in
Casing Diameter	2.875 in
BHT Depth	459.000 ft
Borehole Temperature	77.0 degF
Temperature Gradient	1.00 DFHF
Resistivity Of Mud	1.300 ohm/m
Standoff	1.5
Resistivity Of Mud Temperature	60.00 degF

Well File: run-val-8-24a-4-stk-jul-17 Scale: 1:240 Format: DIL-240
Segment: V1.D1.S4 RP Acquired: 2014-07/17 10:06 3.3.0-12594
Reference: 0 Processed: 2014-07/17 10:35 3.3.0-12594

SPONTANEOUS POTENTIAL mV		DEEP INDUCTION OHMM	
→	← 30	0.2	2000.0
TENSION LBS		MEDIUM INDUCTION OHMM	
10000	0	0.2	2000.0
GAMMA RAY API UNITS		SHALLOW FOCUSED RESISTIVITY OHMM	
200	400	0.2	2000.0
0	200		

1:240 REPEAT SECTION

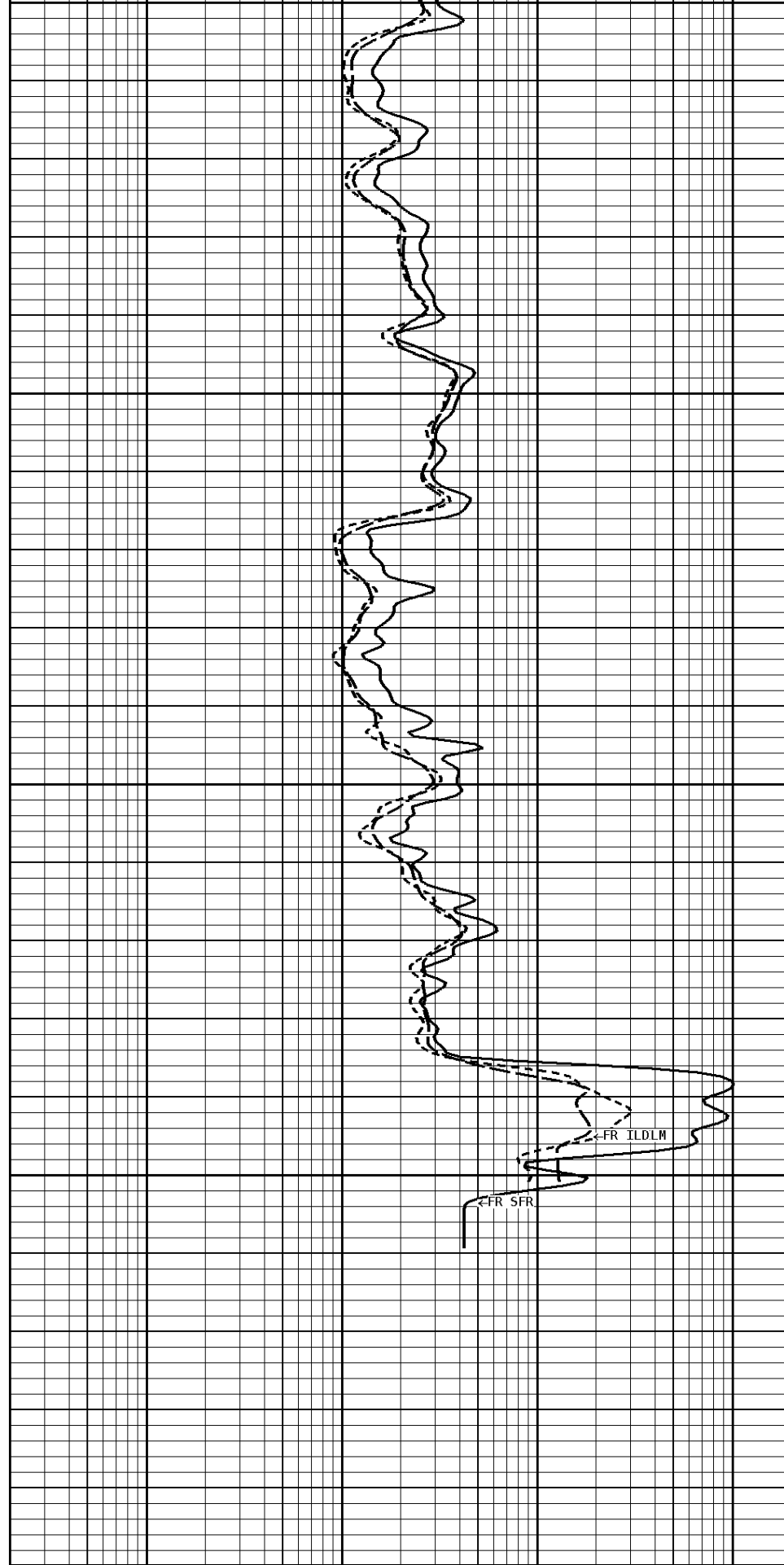




300

400

459



1:240 REPEAT SECTION

GAMMA RAY

SHALLOW FOCUSED RESISTIVITY

API UNITS	
200	400
0	200
TENSION LBS	
10000	0
SPONTANEOUS POTENTIAL mV	
→	← 30

OHMM	
0.2	2000.0
MEDIUM INDUCTION OHMM	
0.2	2000.0
DEEP INDUCTION OHMM	
0.2	2000.0

*** Borehole Zone Factors ***

Zone 1	99999.0	to	0.0	Feet
Drill Bit Size		6.750	in	
Casing Diameter		2.875	in	
BHT Depth		459.000	ft	
Borehole Temperature		77.0	degF	
Temperature Gradient		1.00	DFHF	
Resistivity Of Mud		1.300	ohm/m	
Standoff		1.5		
Resistivity Of Mud Temperature		60.00	degF	

*** 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					
PIT-CA					
Performed : 20-MAY-2014			Time : 12:16		
Sensor Suite : P-IND-T			ID : PIT-AB-005		
Medium					
	Measured		Calibrated		Units
	R	X	R	X	
Air	130436	130973	0.3	0.3	MMHOS
Zero	131064	131069	27.2	2.3	MMHOS
Reference	250278	251098	5142.2	4745.2	MMHOS
Loop	127822	217880	3591.7	3538.5	MMHOS
Sonde Error			-1.6	-2.1	MMHOS
Cond			5142.2	4745.2	MMHOS
Deep					
	Measured		Calibrated		Units
	R	X	R	X	
Air	128989	131106	-3.7	-3.9	MMHOS
Zero	131083	131072	40.1	-10.7	MMHOS
Reference	232597	234445	2030.7	1916.3	MMHOS
Loop	125792	219397	1633.8	1702.6	MMHOS
Sonde Error			-3.5	-9.0	MMHOS
Cond			2030.7	1916.3	MMHOS
Temperature					
	Measured		Calibrated		Units
	Low	High	Low	High	
	16980.0	56920.0	70.0	350.0	DEGF
Performed : 20-MAY-2014			Time : 12:07		
Sensor Suite : SFL			ID : PIT-AB-005		
Internal					
	Measured		Calibrated		Units
	Zero	Reference	Zero	Reference	
Im	32773.9	49477.8	0.0	7028.0	uA
Ib	32760.9	48718.2	0.0	1750.0	mA
MOM1	32720.3	56560.2	0.0	175.0	mV
Equivalent SFL				43.97	OHMM

Performed : 20-MAY-2014
Sensor Suite : P-SP

Time : 12:05
ID : PIT-AB-005

Measured		Internal		Calibrated		Units
Zero	Reference			Zero	Reference	
32770.1	58920.2			0.0	1000.0	mV

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

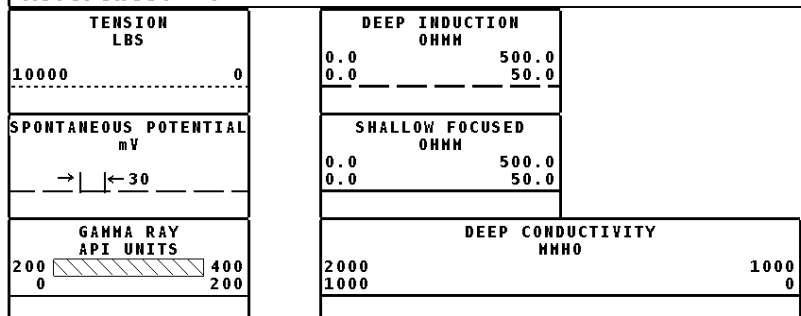
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Segment: V1.D1.S5 MN

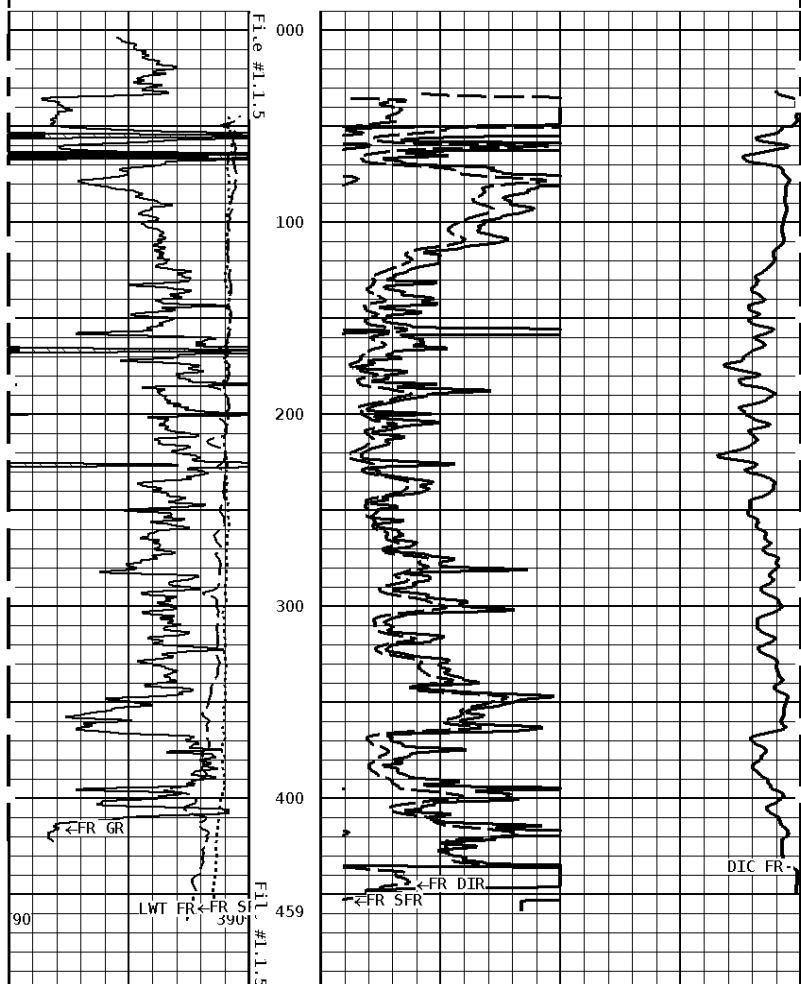
Acquired: 2014-07/17 10:18 3.3.0-12594

Reference: 0

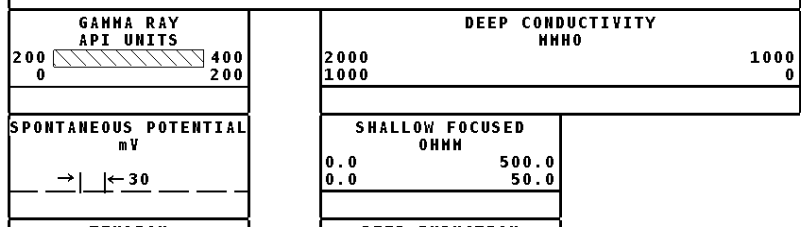
Processed: 2014-07/17 10:35 3.3.0-12594



1:1200 MAIN SECTION



1:1200 MAIN SECTION



TENSION LBS	
10000	0

DEEP INDUCTION OHMM	
0.0	500.0
0.0	50.0



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