

**Tucker**  
WIRELINE SERVICES

**DUAL INDUCTION  
RESISTIVITY LOG**

**Company** RUNNING FOXES PETROLEUM  
**Well** WUNDERLY #14-36D-1  
**Field** DEVON  
**County** BOURBON  
**State** KANSAS  
**Country** USA  
**API No.** 15-011-23821

**File No** : TUL-55934  
**Company** : RUNNING FOXES PETROLEUM  
**Well** : WUNDERLY #14-36D-1  
**Field** : DEVON  
**County** : BOURBON  
**State** : KANSAS  
**Country** : USA  
**API No** : 15-011-23821

**Location** :  
490' FSL & 2460' FWL  
NE SE SE SW

**LSD** :                      **Sect** : 36                      **Twp** : 24S                      **Rge** : 23E

**Permanent Datum:** GL                      **Elevations:** KB 0.00 Ft                      **Services:** CNT  
**Drilling Measured From:** GL                      **DF** 0.00 Ft                      **LDT**  
**Log Measured From:** GL                      **GL** 859.00 Ft                      **PLT**  
**Above Permanent Datum:** 0.00 Ft

<b>Date</b>	2011-11-03	
<b>Run Number</b>	1	
<b>Depth--Driller</b>	550.0	Ft
<b>Depth--Logger</b>	528.0	Ft
<b>First Reading</b>	527.0	Ft
<b>Last Reading</b>	20.0	Ft
<b>Casing--Driller</b>	20.0	Ft
<b>Casing--Logger</b>	20.0	Ft
<b>Bit Size</b>	5.625	In
<b>Casing Size</b>	8.625	In
<b>Hole Fluid Type</b>	FRESH / NATIVE	
<b>Density</b>	0.0 LBS/GAL	
<b>Fluid Loss</b>	0.0 CC	
<b>PH/Viscosity</b>	0.0 @ 0.0 SEC	
<b>Sample Source</b>	MEASURED	
<b>RM@Measured Temp.</b>	1.300 @ 75 F	
<b>RMF@Measured Temp</b>	1.105 @ 75 F	
<b>RMG@Measured Temp.</b>	1.495 @ 75 F	
<b>Source RMF/RMG</b>	CALCULATED/CALCULATED	
<b>RM@BHT</b>	0.942 @ 80 F	
<b>Time Circulation Stopped</b>		
<b>Max Recorded Temp.</b>	80	F
<b>Equipment/Base</b>	TRK 127	TULSA
<b>Recorded By</b>	S. DAVIS / R. FRANKLIN	
<b>Witnessed By</b>	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)
5.625	550.00	8.625	20.00	20.00

<b>Run Number</b>	1	
<b>Date</b>	2011-11-03	
<b>Date/Time On Bottom</b>	2011-11-03 10:30	
<b>Depth to Fluid</b>	20.0	Ft
<b>Salinity</b>	0.000	PPM
<b>RMF@BHT</b>	1.040 @ 80	F
<b>RMC@BHT</b>	1.400 @ 80	F

**Run Number 1**

**Comments**

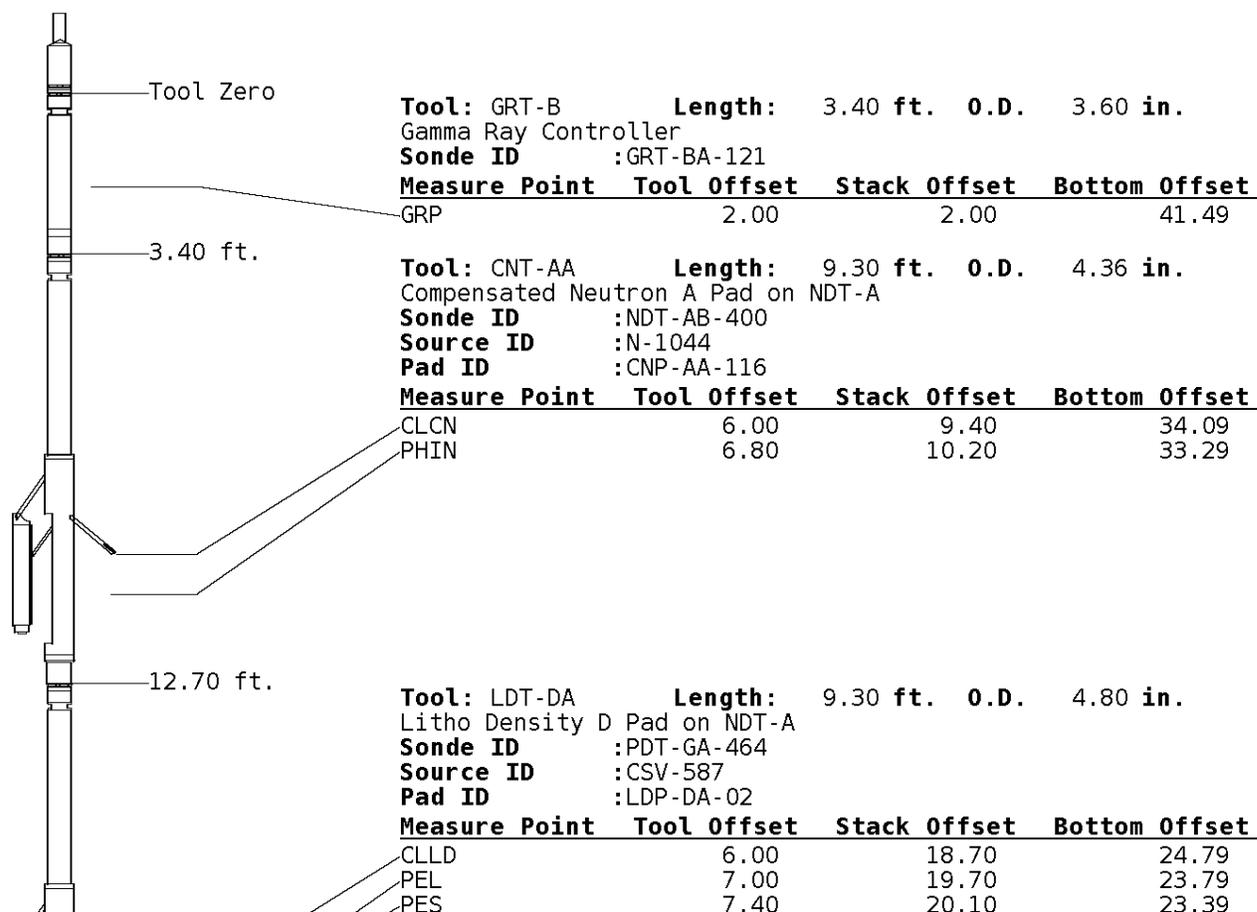
ALL PRESENTATIONS AS PER CUSTOMER REQUEST  
 GRT, CNT, LDT, AND PIT RUN IN COMBINATION.  
 CALIPERS ORIENTED ON X-Y AXIS.  
 2.71 G/CC USED TO CALCULATED POROSITY.  
 ANNULAR HOLE VOLUME CALCULATED USING 2.875" PRODUCTION CASING.

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

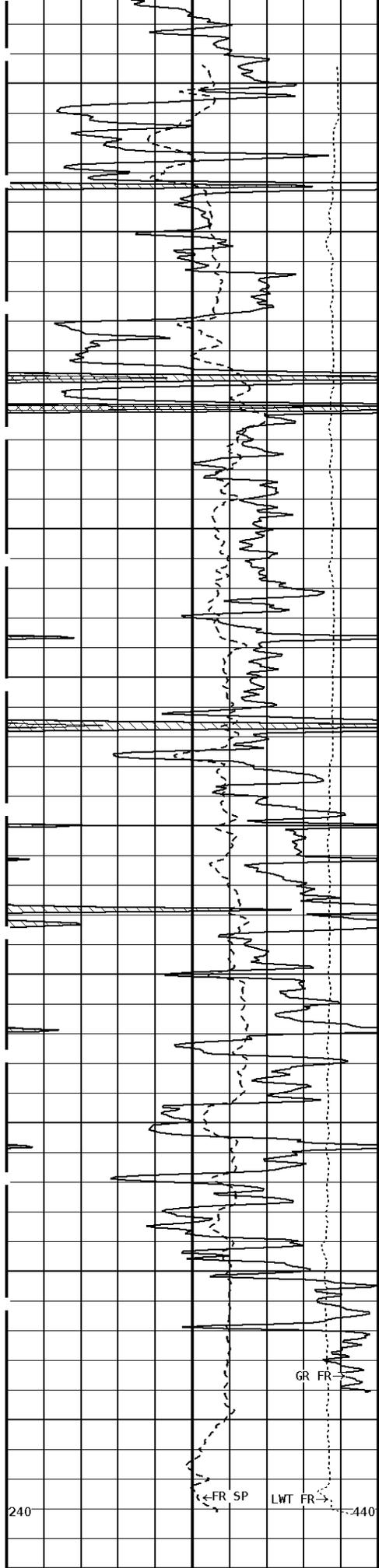
OPERATORS:  
 A. WARREN  
 S. DAVIS  
 T. HOBBS

### Tool String Schematic

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







100

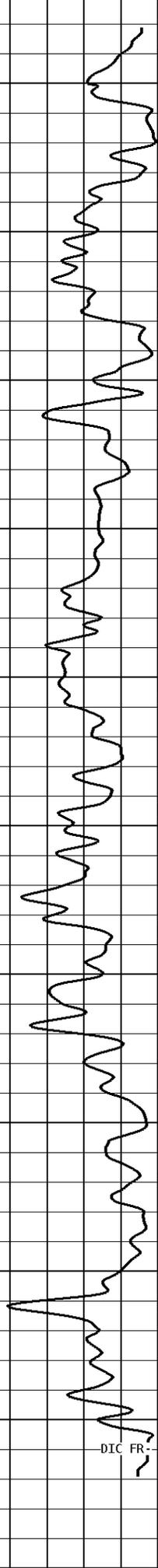
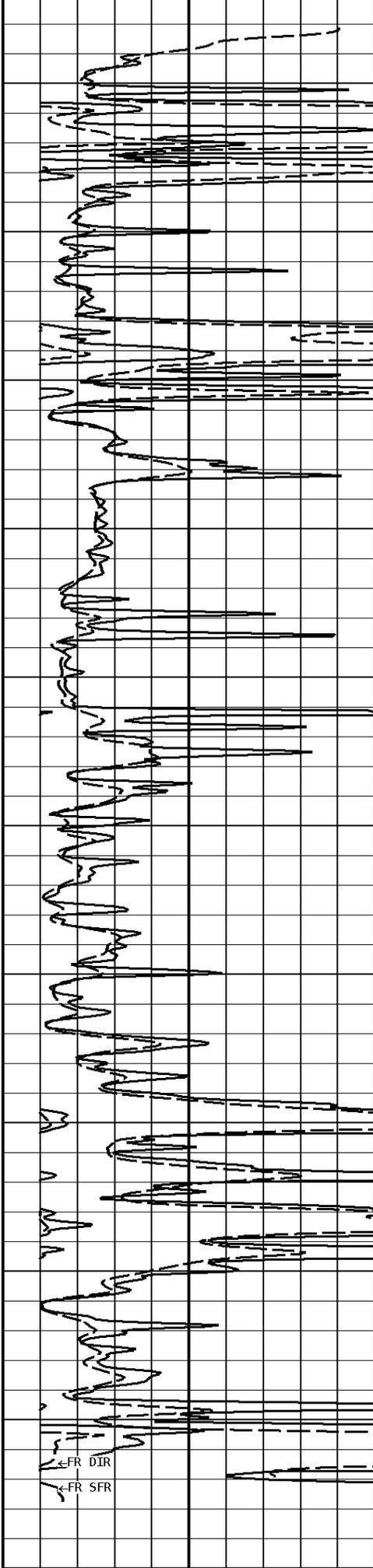
200

300

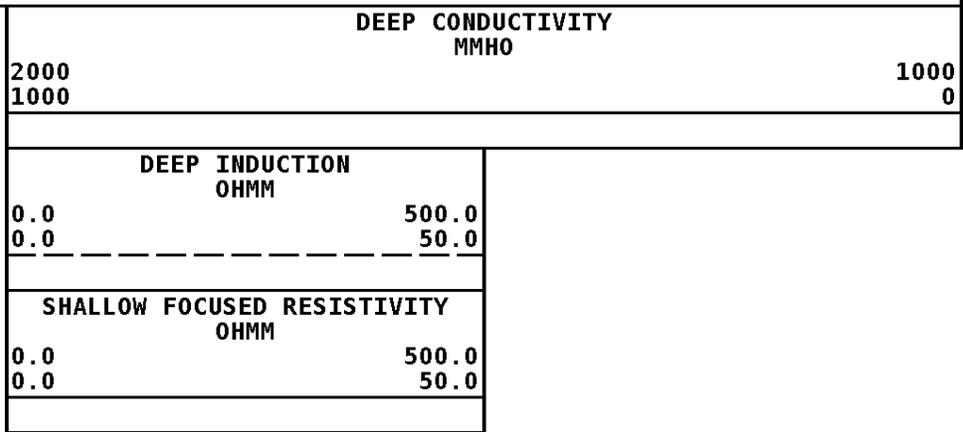
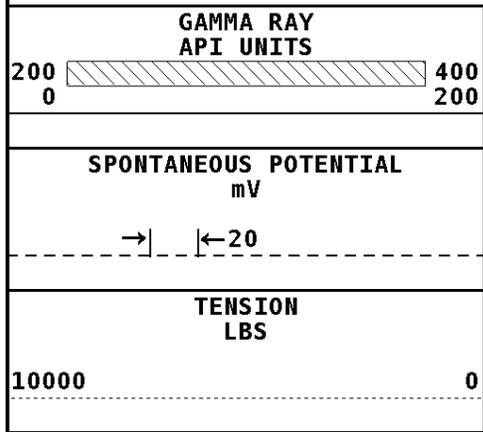
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500

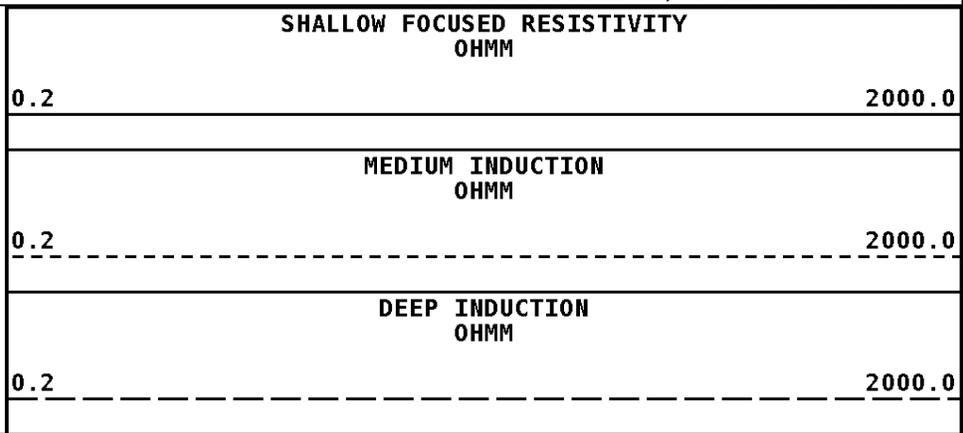
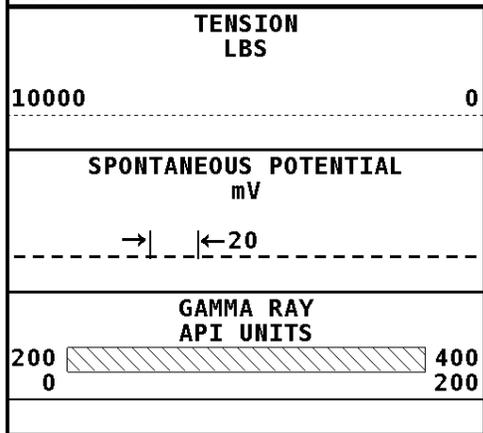
528



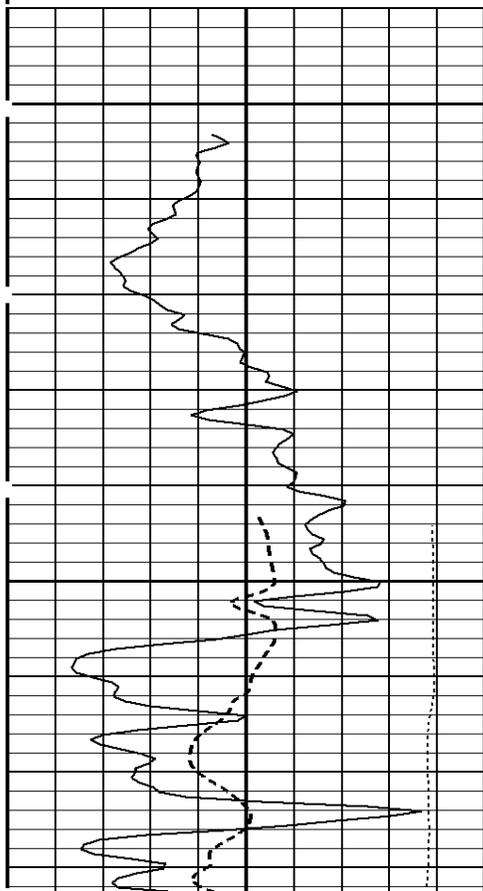
1:600 SECTION  
2 INCH



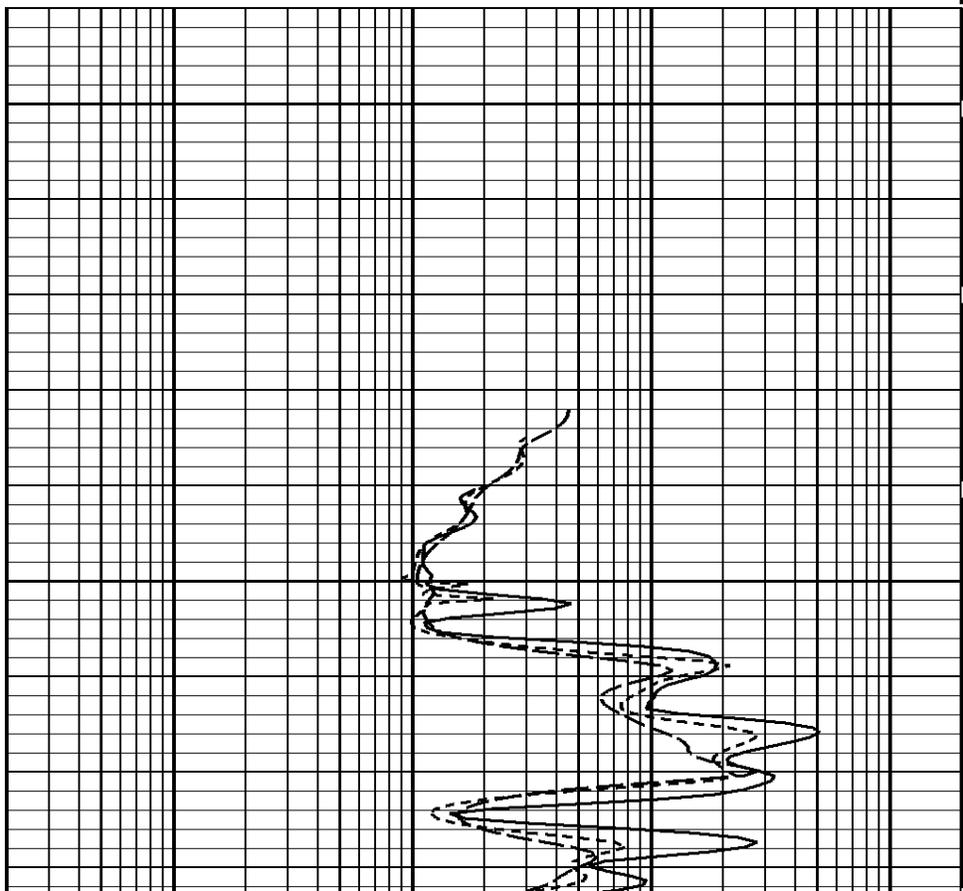
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**Segment:** V1.D1.S5 Reprocess of segment\_003 **Acquired:** 2011-11/03 10:37 3.2.0-10220  
**Reference:** 0 **Processed:** 2011-11/03 11:17 3.2.0-10220

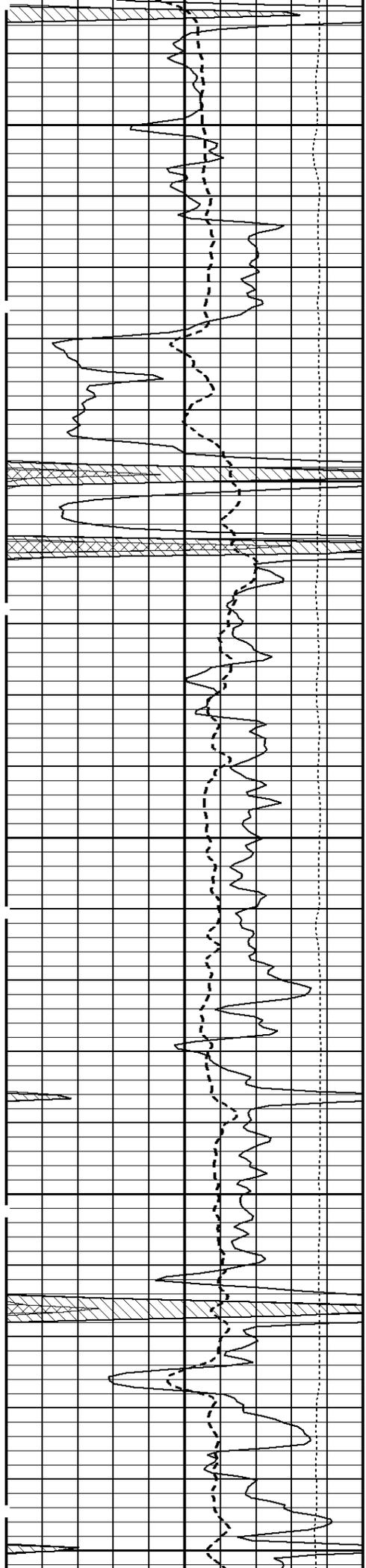


**1:240 MAIN SECTION**



000

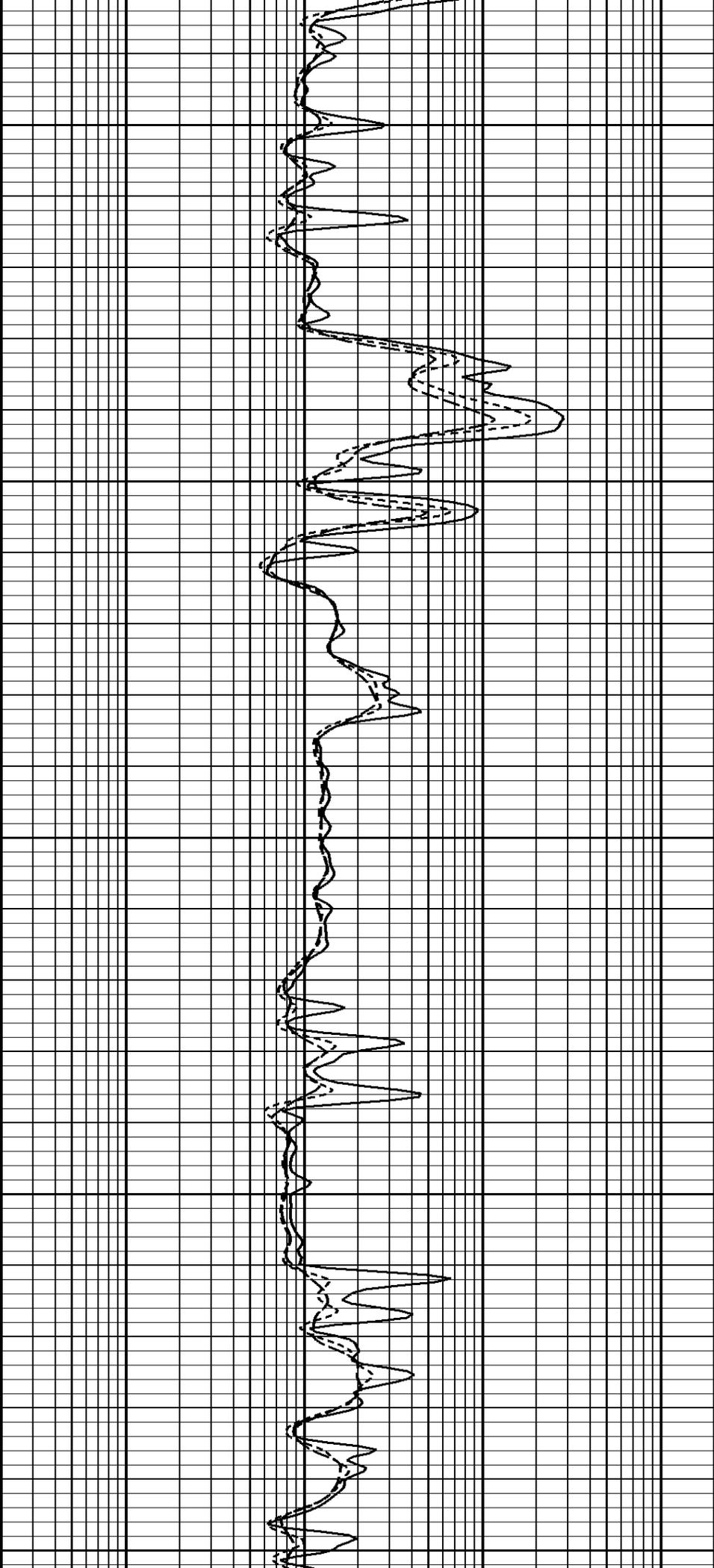


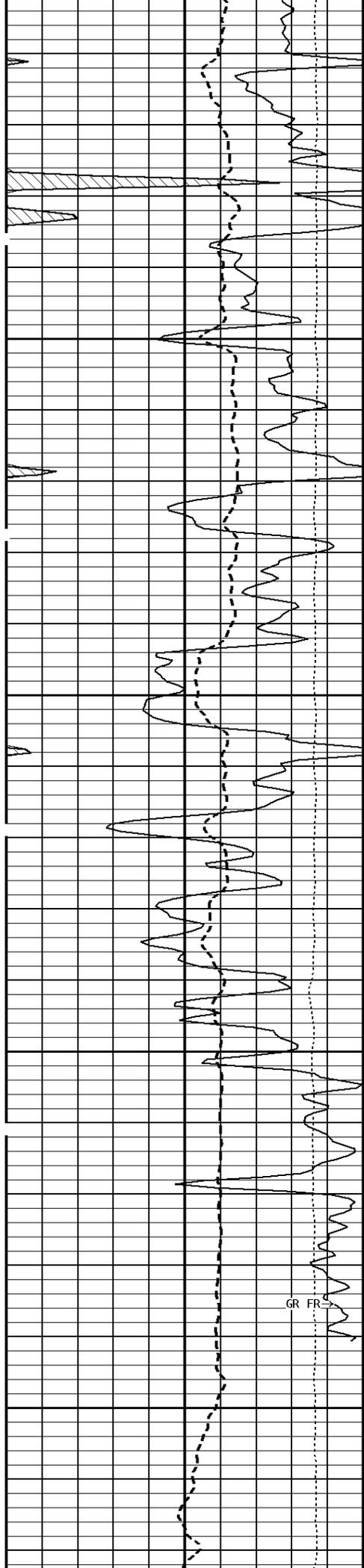


100

200

300

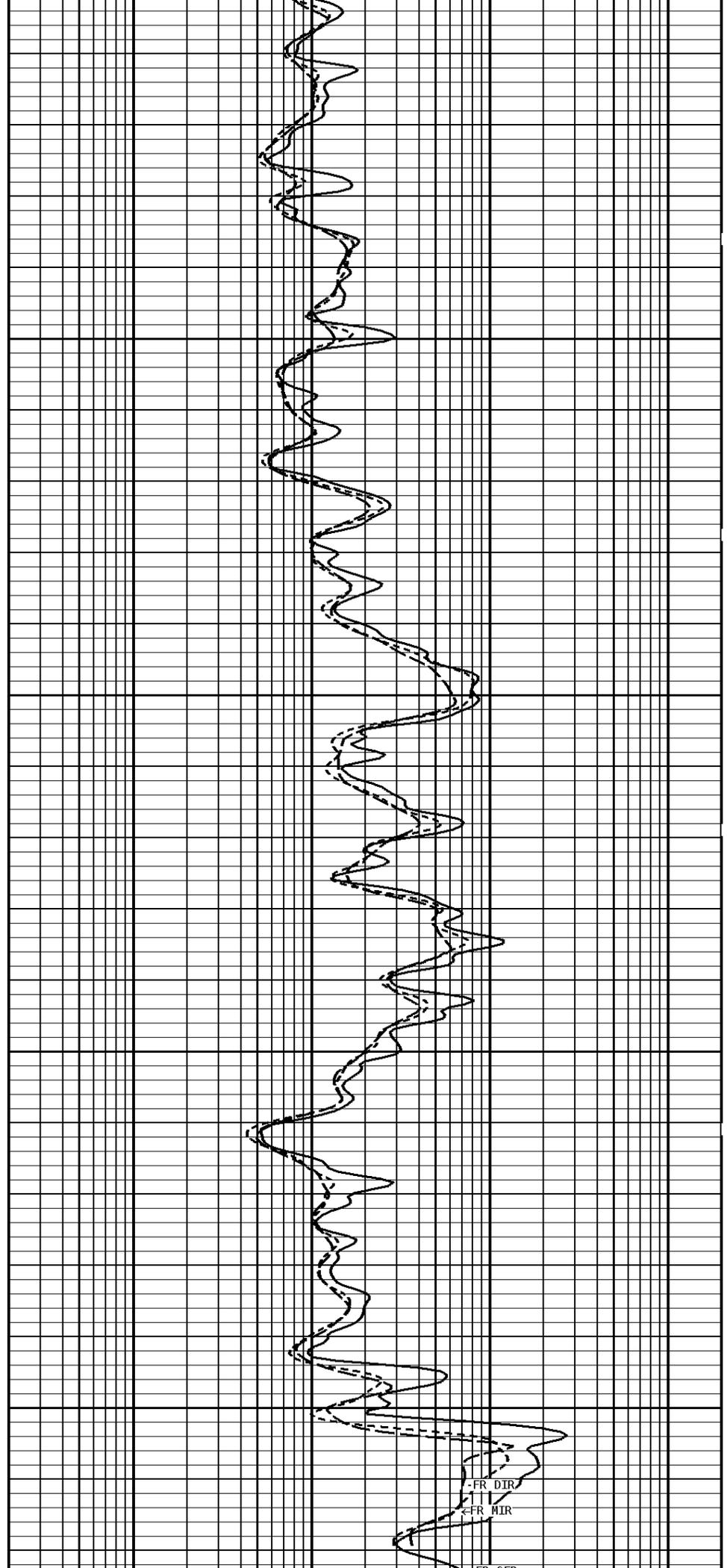




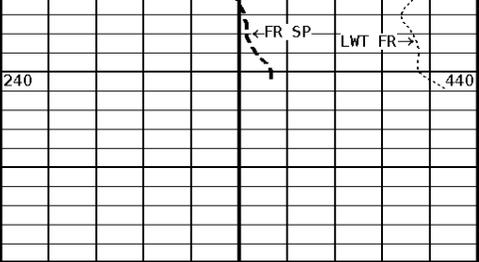
400

500

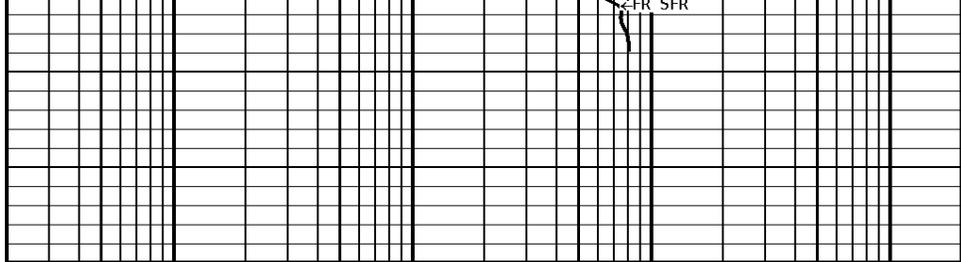
GR FR



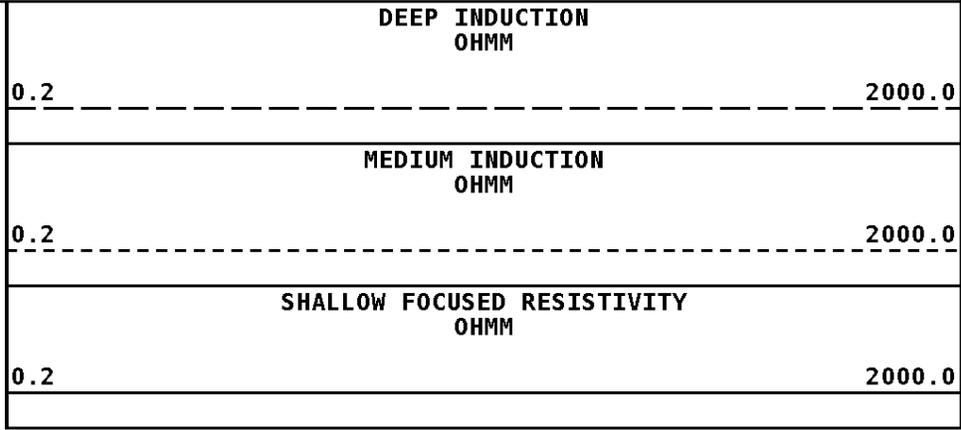
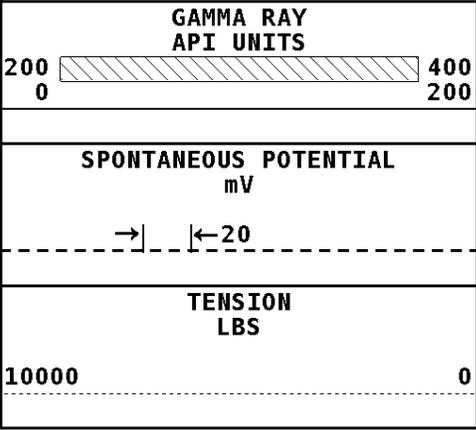
FR DIR  
FR MIR



528



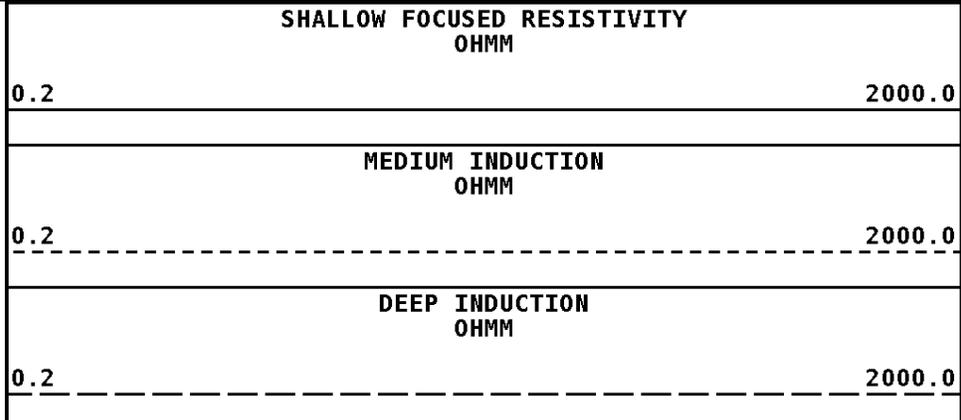
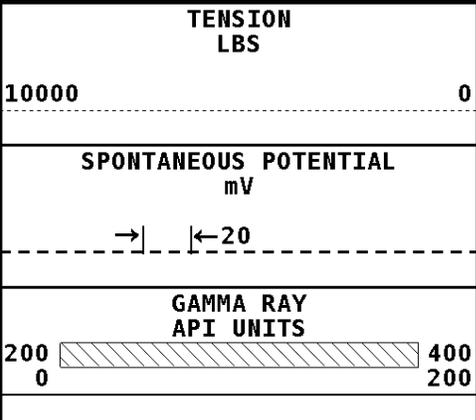
**1:240 MAIN SECTION**



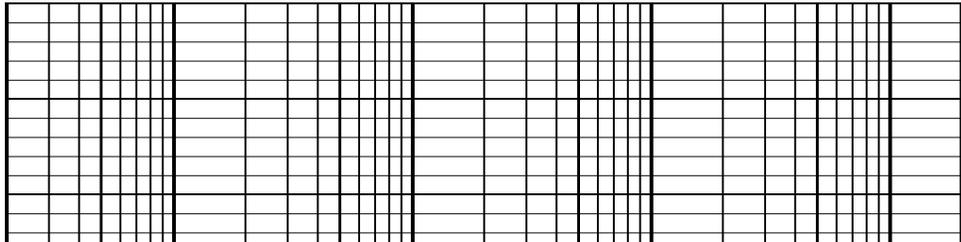
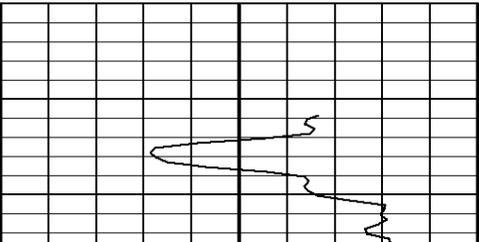
**\* Borehole Zone Factors \***

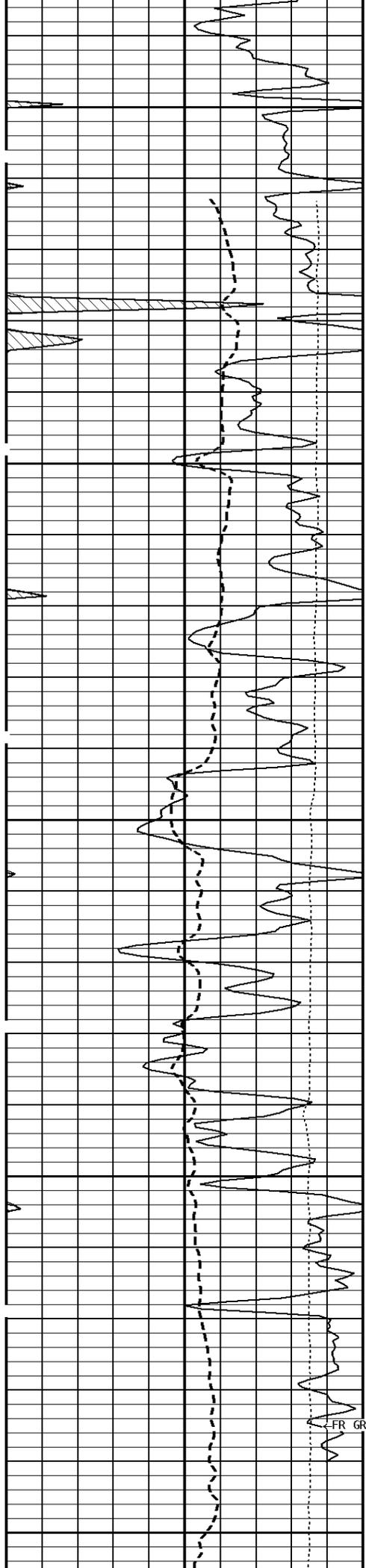
<b>Zone 1 99999.0 to 0.0 Feet</b>	
Drill Bit Size _____	5.625 in
BHT Depth _____	528.000 ft
Borehole Temperature _____	80.0 degF
Temperature Gradient _____	1.00 DFHF
Resistivity Of Mud _____	1.300 ohm/m
Resistivity Of Mud Temperature _____	75.00 degF

**Well File:** rfp\_wun\_14\_36d\_1\_stk\_nov\_3 **Scale:** 1:240  
**Segment:** V1.D1.S4 Reprocess of segment\_002 **Acquired:** 2011-11/03 10:24 3.2.0-10220  
**Reference:** 0 **Processed:** 2011-11/03 11:17 3.2.0-10220



**1:240 REPEAT SECTION**

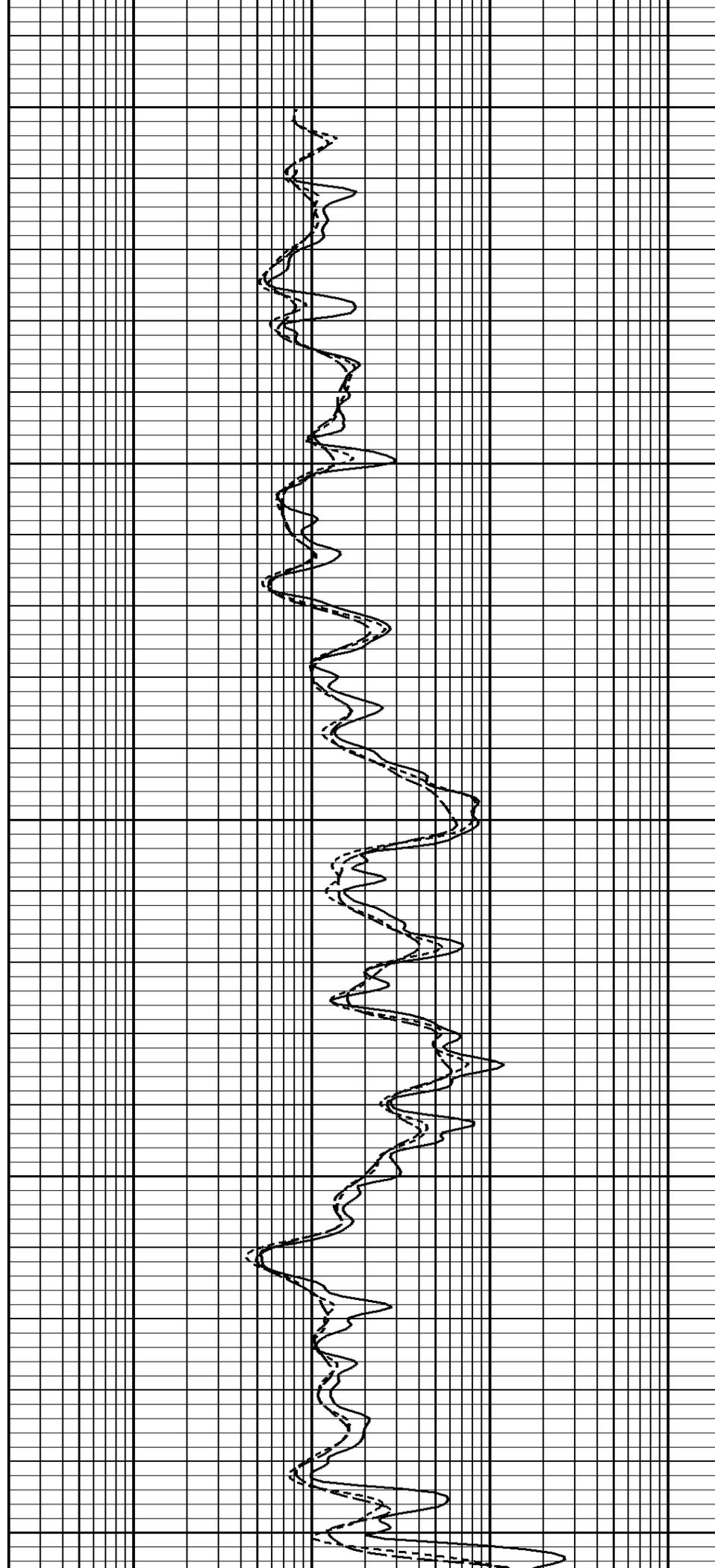


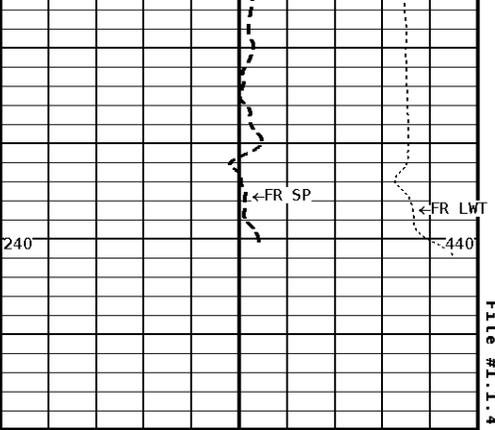


300

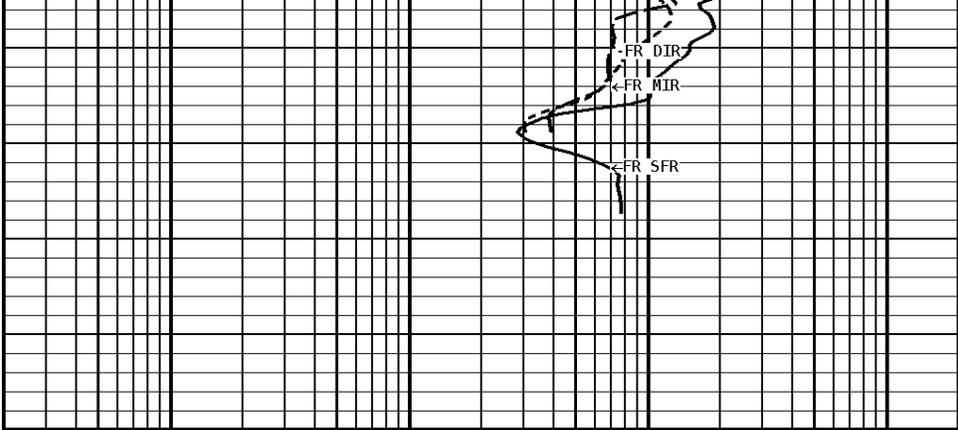
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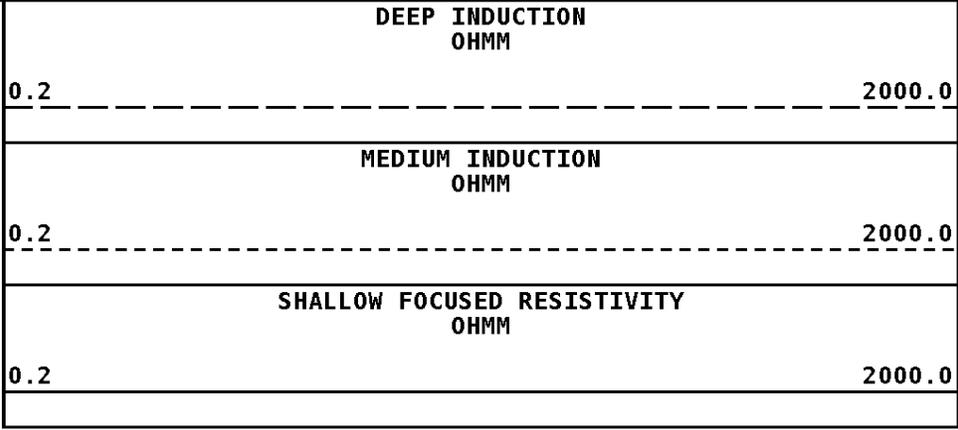
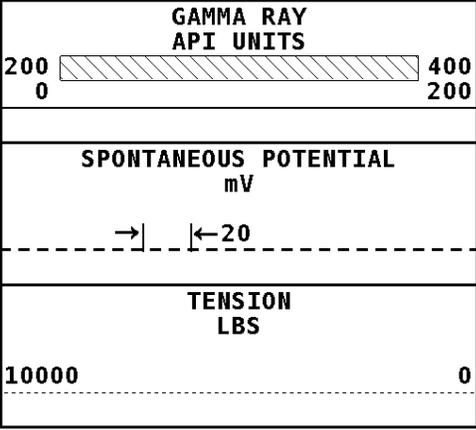




528



**1:240 REPEAT SECTION**



**\* Borehole Zone Factors \***

Zone 1 9999.0 to 0.0 Feet		
Drill Bit Size	_____	5.625 in
BHT Depth	_____	528.000 ft
Borehole Temperature	_____	80.0 degF
Temperature Gradient	_____	1.00 DFHF
Resistivity Of Mud	_____	1.300 ohm/m
Resistivity Of Mud Temperature	_____	75.00 degF

**\* Calibration Summary \***

Shop Calibration GRT-B					
Performed : 16-May-2011			Time : 10:12		
Sensor Suite : GR-GR5			ID : GRT-BA-121		
	Measured	Units	Calibrated	Units	
GR	Background	Jig	Jig		
	51	355	175	GRAPI	

Shop Calibration PIT-CA					
Performed : 07-Jan-2010			Time : 13:21		
Sensor Suite : P-IND-T			ID : PIT-AC-13		
Medium					
	Measured		Calibrated		Units
	R	X	R	X	
Air	136416	125008	-0.3	-1.1	MMHOS
Zero	131064	131067	0.0	0.0	MMHOS
Reference	251718	249932	5000.0	5000.0	MMHOS
Loop	157524	168938	2722.3	972.0	MMHOS
Sonde Error			-11.6	-382.8	MMHOS
Cond			5000.0	5000.0	MMHOS

Deep					
	Measured		Calibrated		Units
	R	X	R	X	

Air	133180	127344	-0.2	-0.6	MMHOS
Zero	131074	131070	0.0	0.0	MMHOS
Reference	236123	236388	2000.0	2000.0	MMHOS
Loop	154704	172992	1276.5	456.4	MMHOS
Sonde Error			6.4	-124.1	MMHOS
Cond			2000.0	2000.0	MMHOS

Temperature					
Measured			Calibrated		Units
Low	High		Low	High	
16980.0	56920.0		70.0	350.0	DEGF

Performed : 07-Jan-2010      Time : 13:14  
 Sensor Suite : SFL              ID : PIT-AC-13

Internal					
Measured			Calibrated		Units
Zero	Reference		Zero	Reference	
Im	32766.0	49423.3	0.0	7028.0	uA
Ib	32774.3	48667.7	0.0	1750.0	mA
MOM1	32711.8	56481.1	0.0	175.0	mV
Equivalent SFL				43.97	OHMM

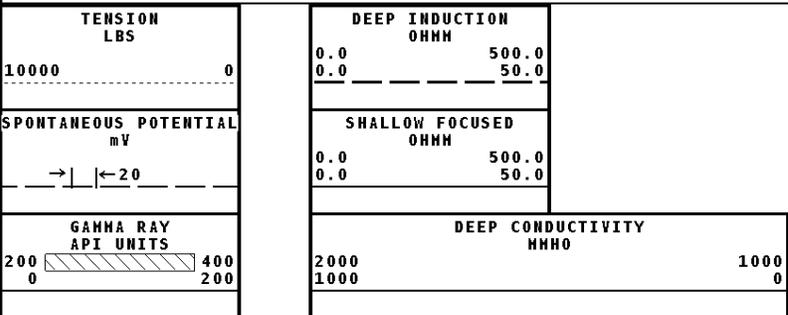
Performed : 07-Jan-2010      Time : 13:04  
 Sensor Suite : P-SP            ID : PIT-AC-13

Internal					
Measured			Calibrated		Units
Zero	Reference		Zero	Reference	
	32768.2	58923.7	0.0	1000.0	mV

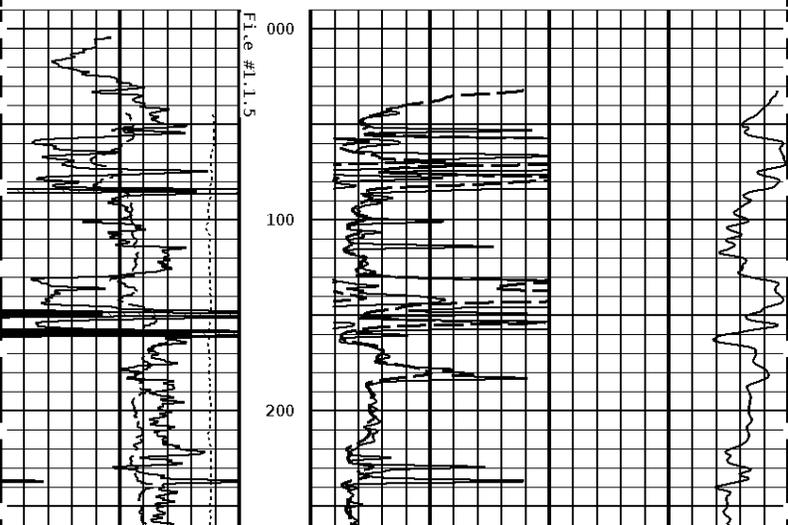
Performed : 07-JAN-2010      Time : 13:25  
 Sensor Suite : P-RMUD        ID : PIT-AC-13

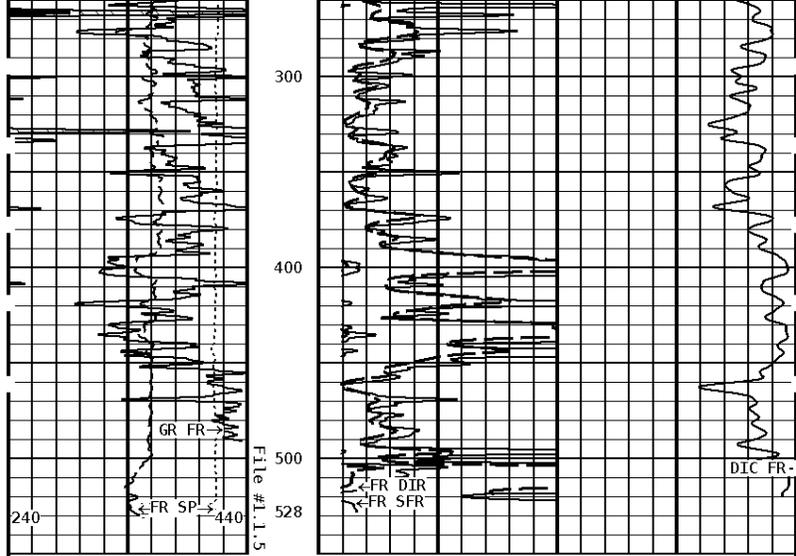
Internal					
Measured			Calibrated		Units
Zero	Reference		Zero	Reference	
Rmi	0.0	34825.0	0.0	290.6	mA
Rmv	0.0	34825.0	0.0	290.6	mV
Equivalent Rm				0.0871	OHMM

**Well File:** rfp wun 14 36d 1 stk nov 3      **Scale:** 1:1200  
**Segment:** V1.D1.S5 Reprocess of segment\_003      **Acquired:** 2011-11/03 10:37 3.2.0-10220  
**Reference:** 0      **Processed:** 2011-11/03 11:17 3.2.0-10220



**1:1200 MAIN SECTION**





**1:1200 MAIN SECTION**

