

**Tucker**  
ENERGY SERVICES

PHASED INDUCTION  
SHALLOW FOCUS SP LOG

Company: RUNNING FOXES PETROLEUM INC.  
Well: HOLEMAN #1-22A-4  
Field: BRONSON-XENIA  
County: ALLEN  
State: KANSAS  
Country: USA  
API No.: 15-001-30606-00-00

File No.: TUI-58792  
Company: RUNNING FOXES PETROLEUM INC.  
Well: HOLEMAN #1-22A-4  
Field: BRONSON-XENIA  
County: ALLEN  
State: KANSAS  
Country: USA  
API No.: 15-001-30606-00-00

Location: 495' FNL & 165' FEL  
SE NENE NE

LSD:                      Sect: 22                      Twp: 24S                      Rge: 21E

Date	04-30-2013			
Run Number	1			
Depth--Driller	879.0	Ft		
Depth--Logger	878.0	Ft		
First Reading	877.0	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			
Density	0.0			
Fluid Loss	0.0			
PH/Viscosity	0.0	0.0		
Sample Source	MEASURED			
RM@Measured Temp.	10.000	@ 80 F		
RMF@Measured Temp	8.500	@ 80 F		
RMG@Measured Temp.	11.500	@ 80 F		
Source RMF/RMC				
RM@BHT	9.700	@ 83 F		
Time Circulation Stopped	04-30-2013 17:44			
Max Recorded Temp.	83	F		
Equipment/Base	TRK 125	TULSA		
Recorded By	R. FRANKLIN			
Witnessed By	K. HODGES			

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	879.00	8.625	32.00	20.00	0.00

Run Number	1	
Date	04-30-2013	
Date/Time On Bottom	04-30-2013 17:00	
Depth to Fluid	0.0	Ft
Salinity	0.000	
RMF@BHT	0.000	@ 83 F
RMC@BHT	11.100	@ 83 F

Run Number 1

Comments

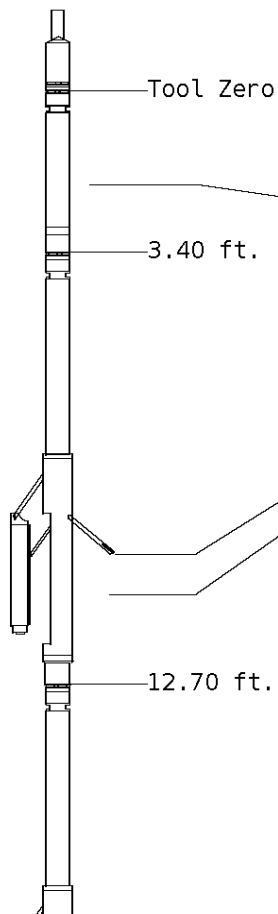
ALL PRESENTATIONS AS PER CUSTOMER REQUEST.  
 GRT, CNT, LDT, AND PIT RUN IN COMBINATION.  
 CALIPERS ORIENTED ON X-Y AXIS.  
 2.71 G/CC USED TO CALCULATE POROSITY.  
 ANNULAR HOLE VOLUME CALCULATED USING 4.5" PRODUCTION CASING.

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

OPERATORS:  
 R. SAMS  
 D. HOPPER

### Tool String Schematic

**Total Tool Length** - 43.29 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	41.29

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

**Sonde ID** :NDT-AF-402

**Source ID** :N-1048

**Pad ID** :CNP-AA-109

Measure Point	Tool Offset	Stack Offset	Bottom Offset
CLCN	6.00	9.40	33.89
PHIN	6.80	10.20	33.09

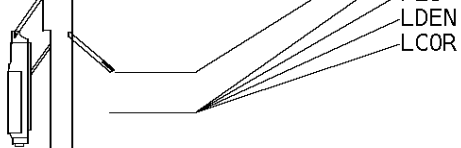
**Tool:** LDT-DA      **Length:** 9.30 ft.    **O.D.** 4.80 in.  
 Litho Density D Pad on NDT-A

**Sonde ID** :NDT-AH-148

**Source ID** :1902GW

**Pad ID** :LDP-DA-36

Measure Point	Tool Offset	Stack Offset	Bottom Offset
CLLD	6.00	18.70	24.59
PEL	7.00	19.70	23.59
PES	7.40	20.10	23.19



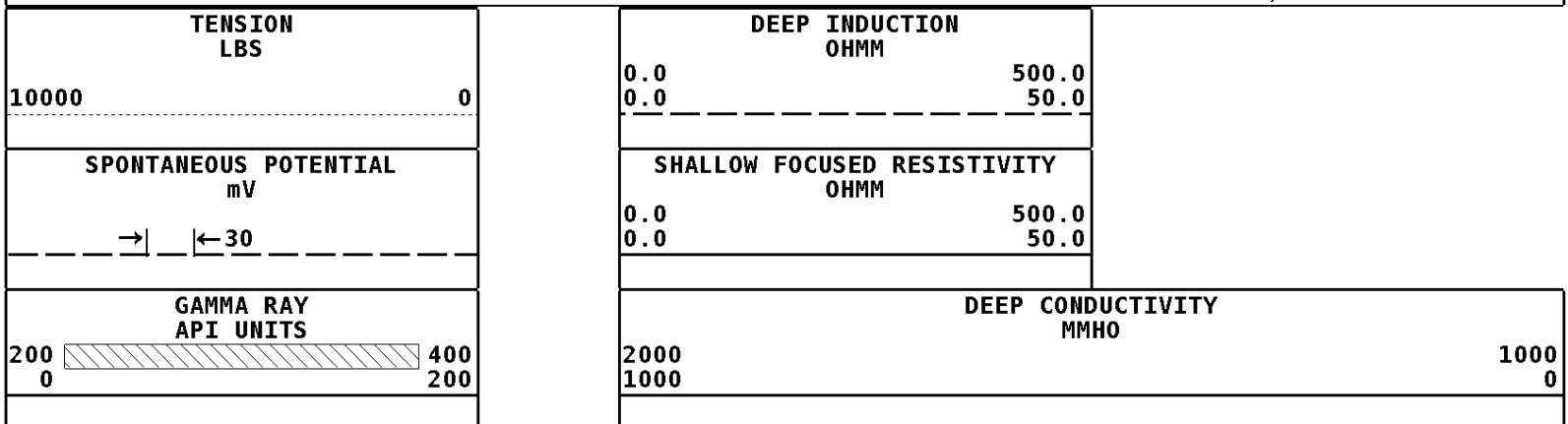
7.20 19.90 23.39  
 7.20 19.90 23.39

**Tool:** PIT-CA **Length:** 21.29 ft. **O.D.** 3.62 in.  
 Phased Dual Induction  
**Sonde ID** :PIT--AB-16

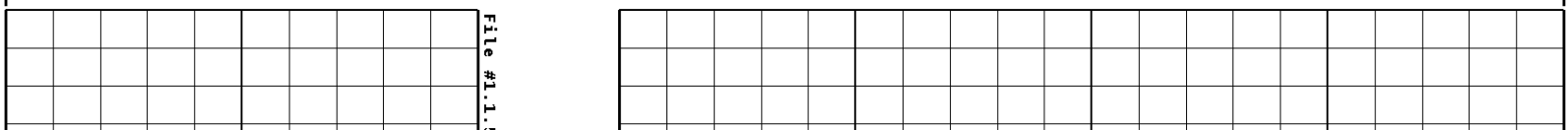
Measure Point	Tool Offset	Stack Offset	Bottom Offset
ILD	8.73	30.73	12.56
ILM	9.90	31.90	11.39
SFLU	17.29	39.29	4.00
SP	20.41	42.41	0.88

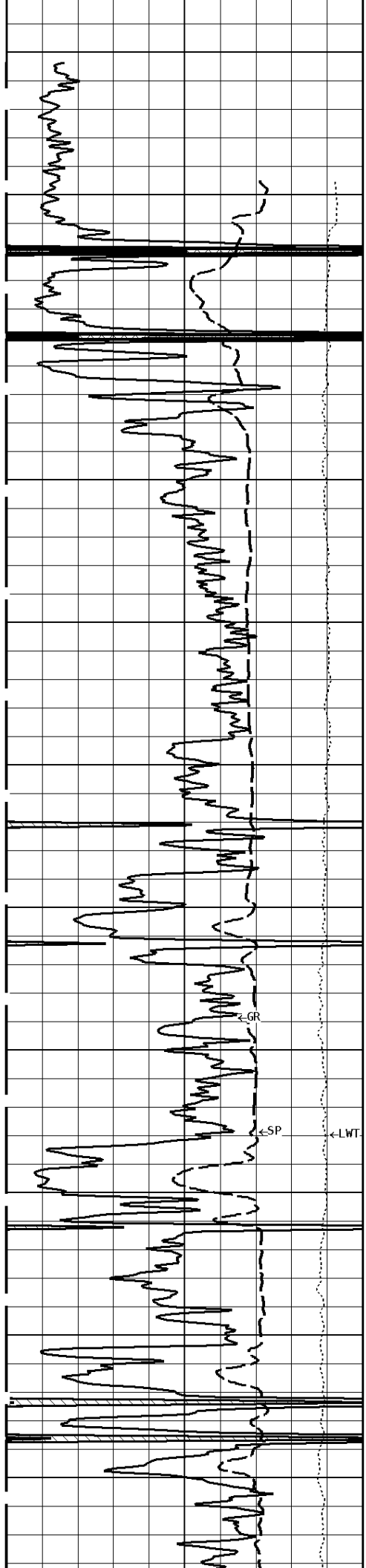
LWT 43.29 ft.

**Well File:** RFP\_HOL\_1-22A-4\_APR\_30\_STK **Scale:** 1:600 **Format:** DIL-600  
**Segment:** V1.D1.S5 MAIN **Acquired:** 2013-04/30 17:27 3.3.0-11923  
**Reference:** 0 **Processed:** 2013-04/30 18:05 3.3.0-11923



**1:600 MAIN SECTION**





000

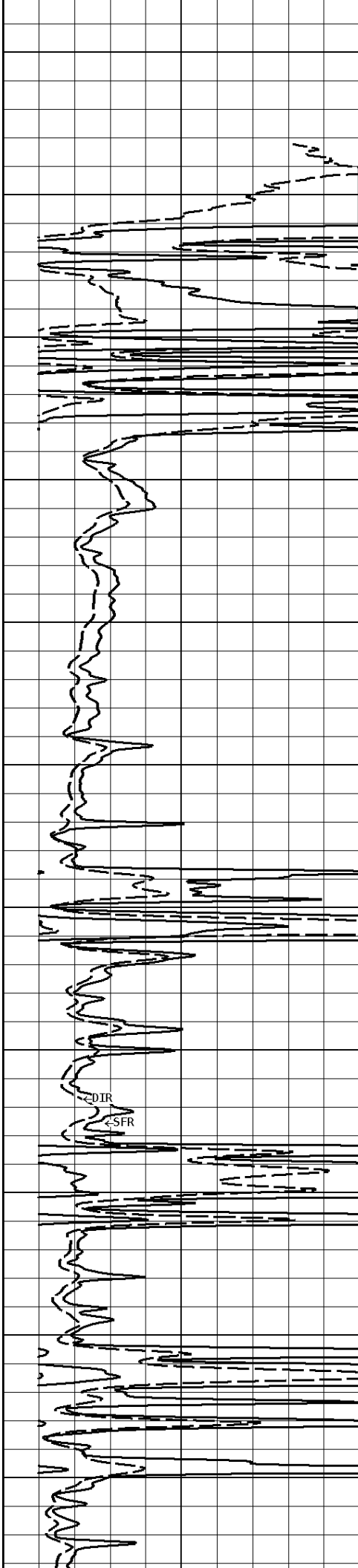
100

200

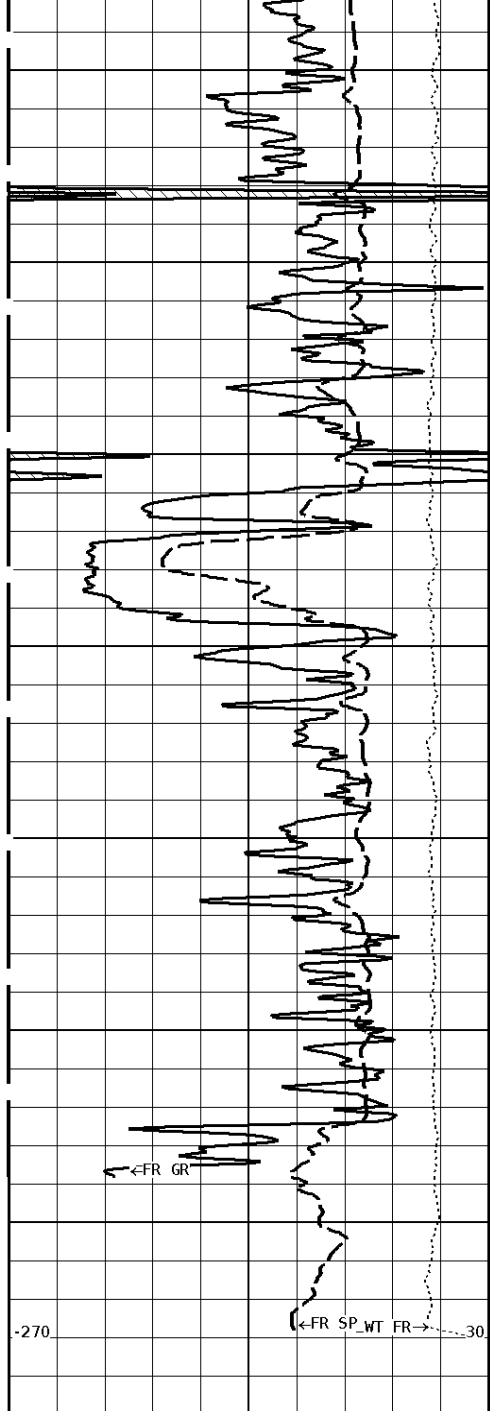
300

400

500



DIC

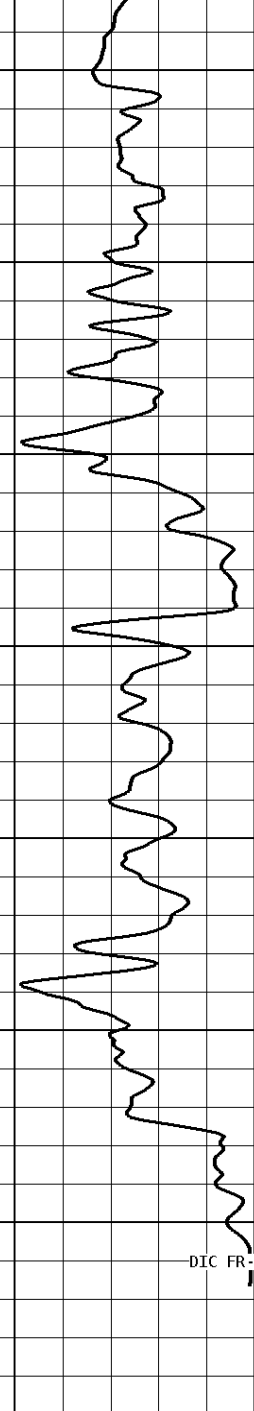
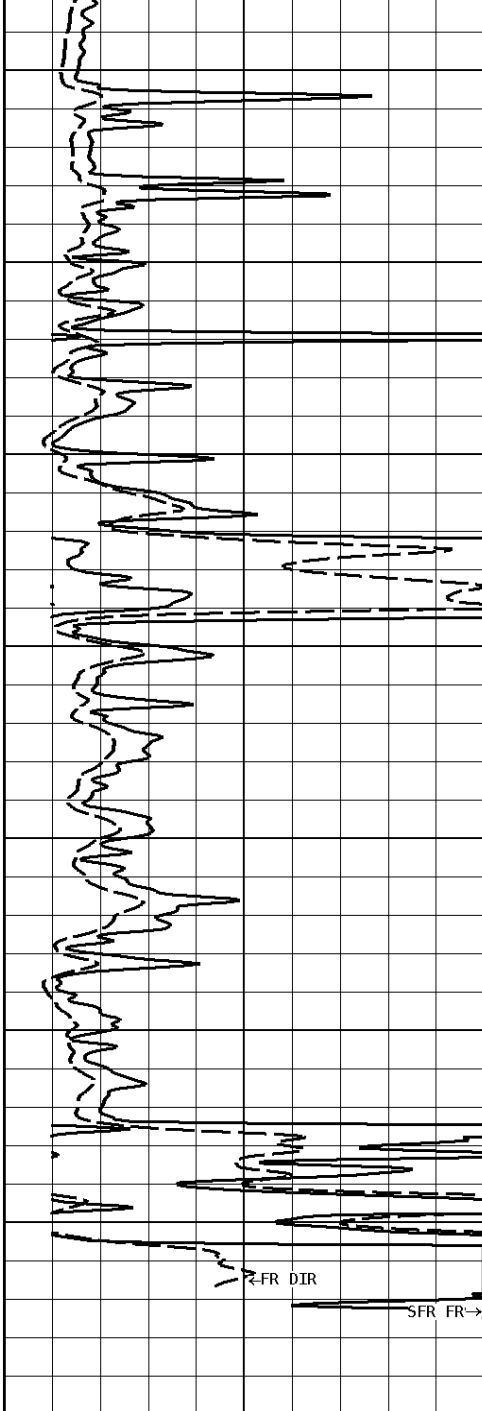


600

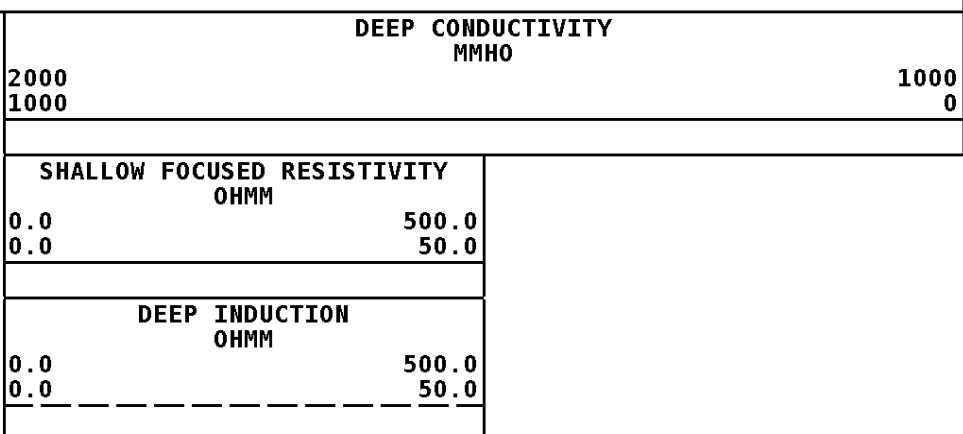
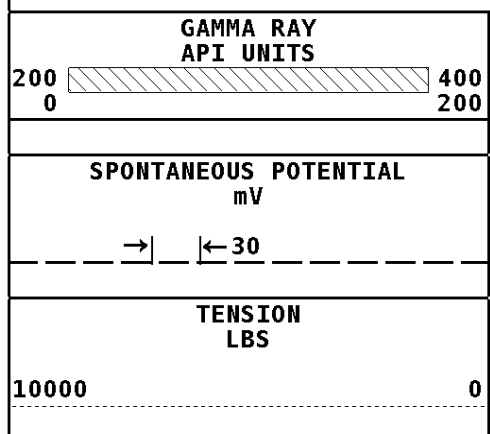
700

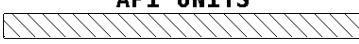
800

878



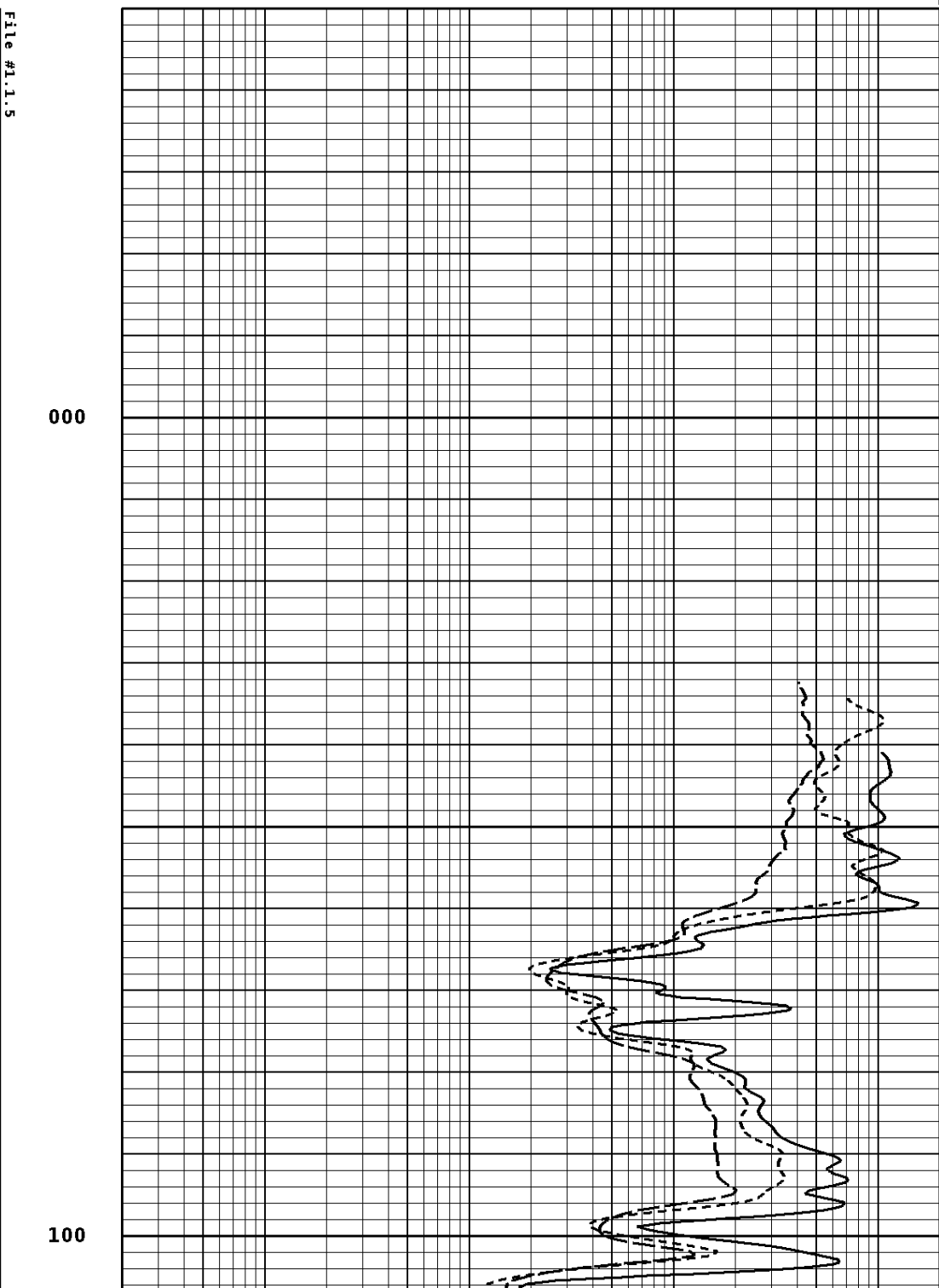
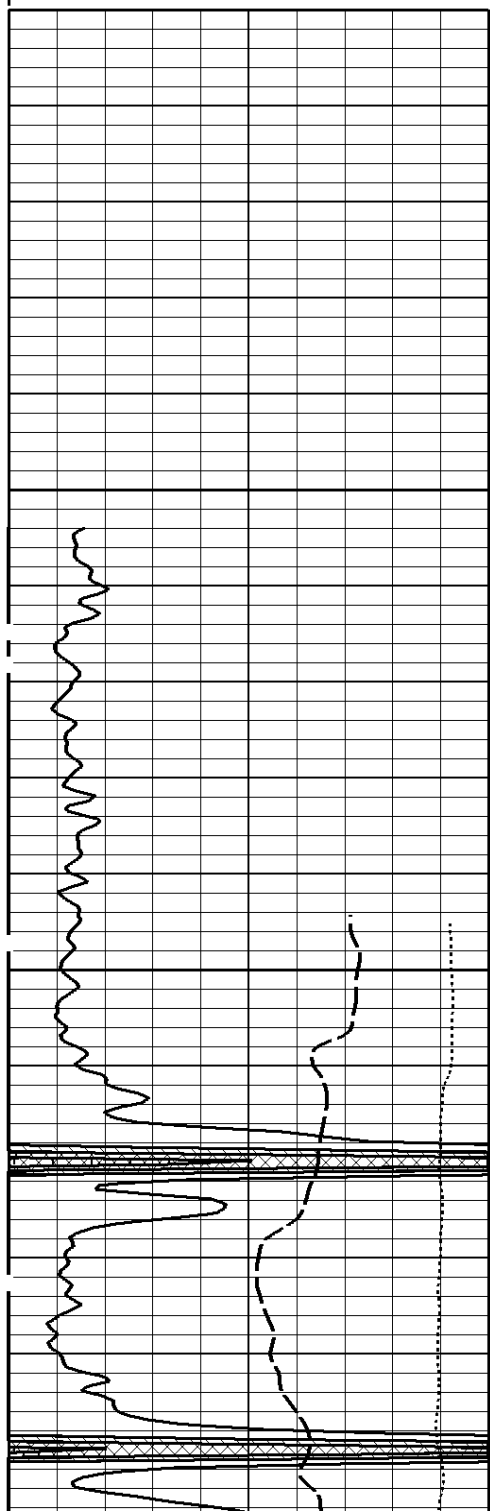
**1:600 MAIN SECTION**

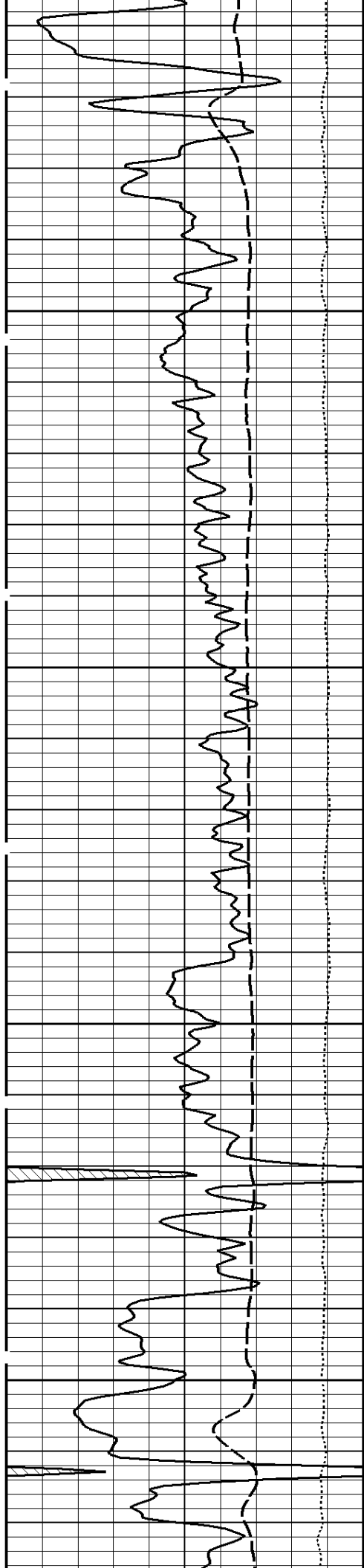


<b>SPONTANEOUS POTENTIAL</b> mV →   ← 30	
<b>TENSION</b> LBS 10000 ----- 0	
<b>GAMMA RAY</b> API UNITS 200 0  400 0 200	

<b>DEEP INDUCTION</b> OHMM 0.2 ----- 2000.0	
<b>MEDIUM INDUCTION</b> OHMM 0.2 ----- 2000.0	
<b>SHALLOW FOCUSED RESISTIVITY</b> OHMM 0.2 ----- 2000.0	

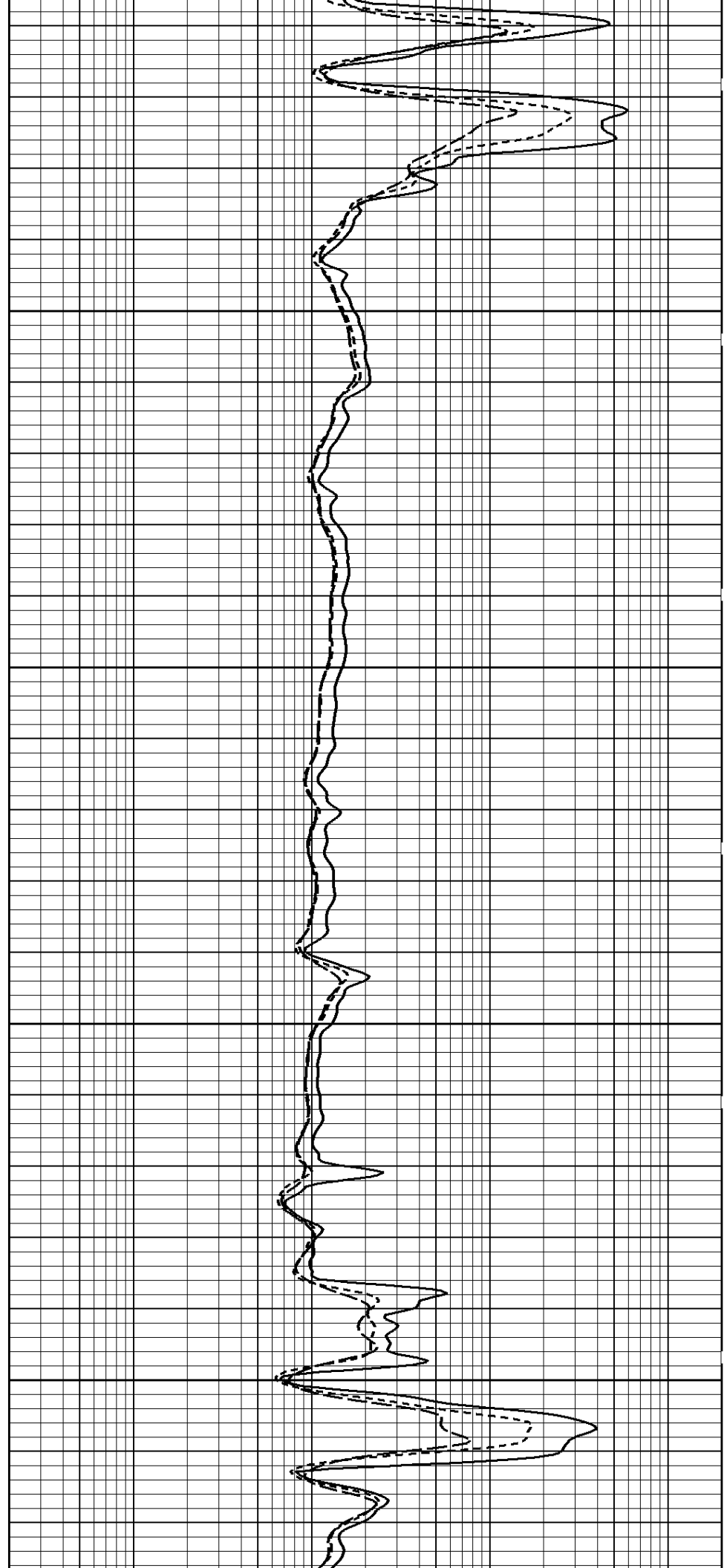
### 1:240 MAIN SECTION

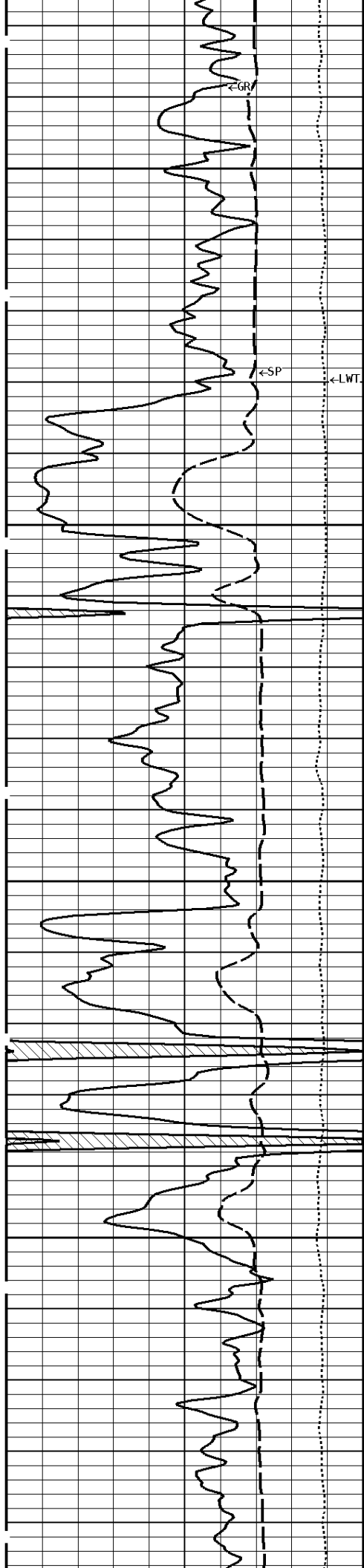




200

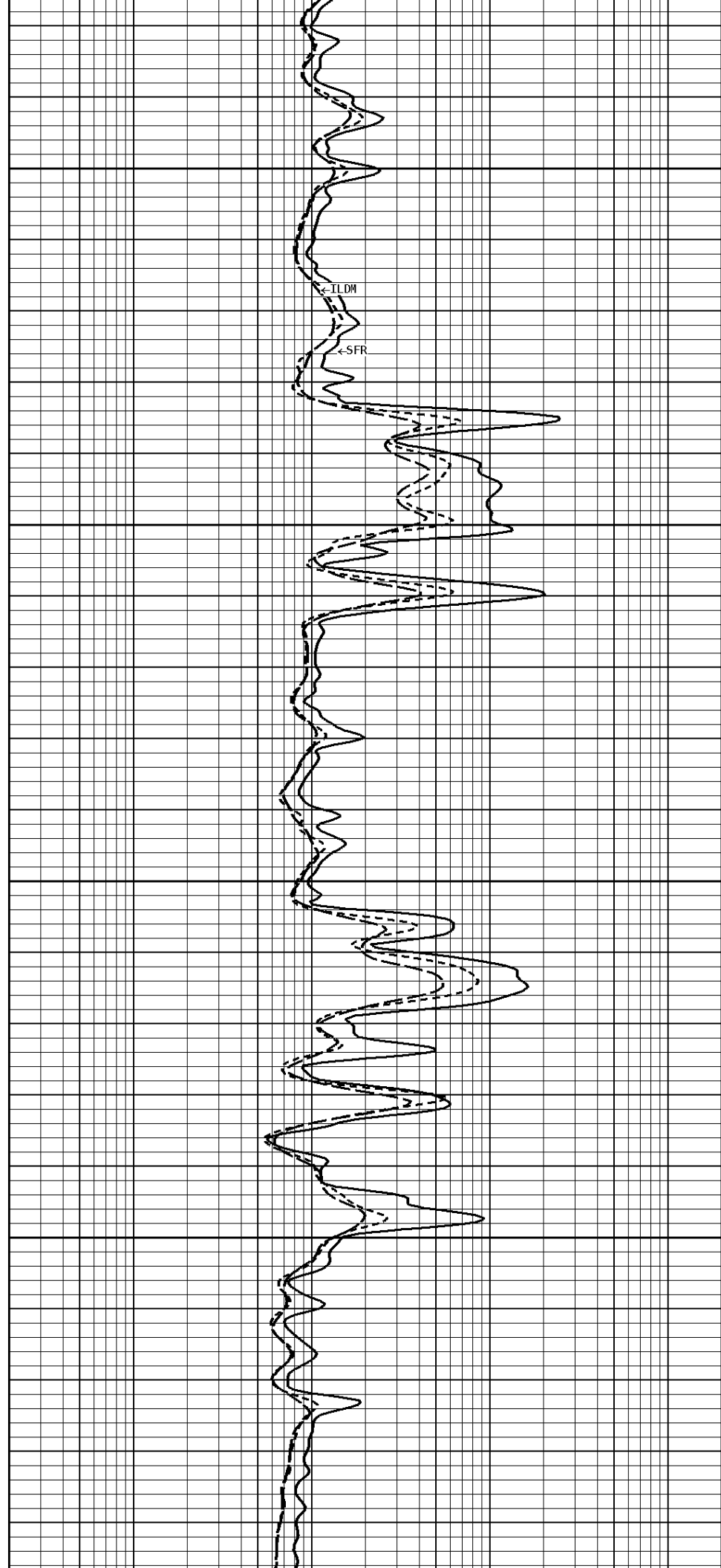
300



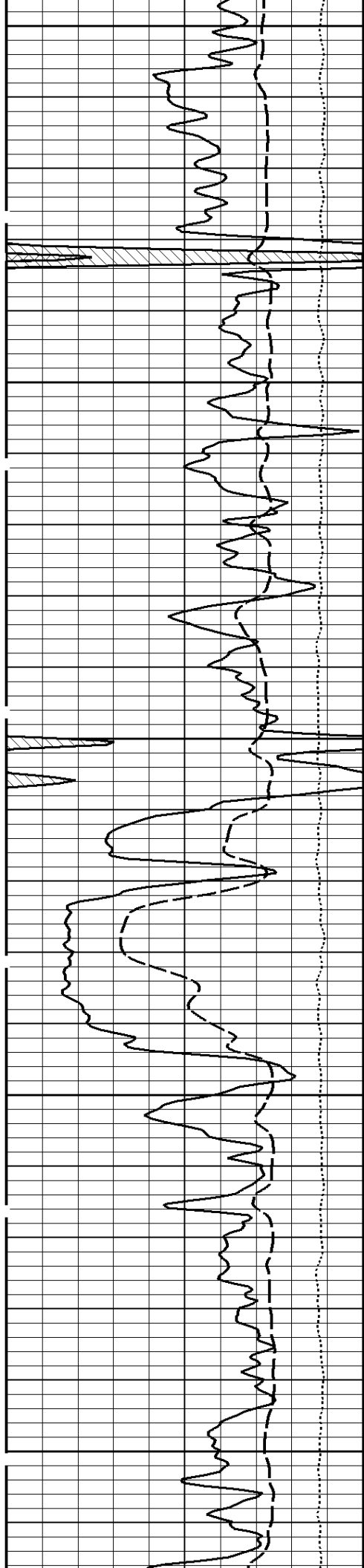


400

500

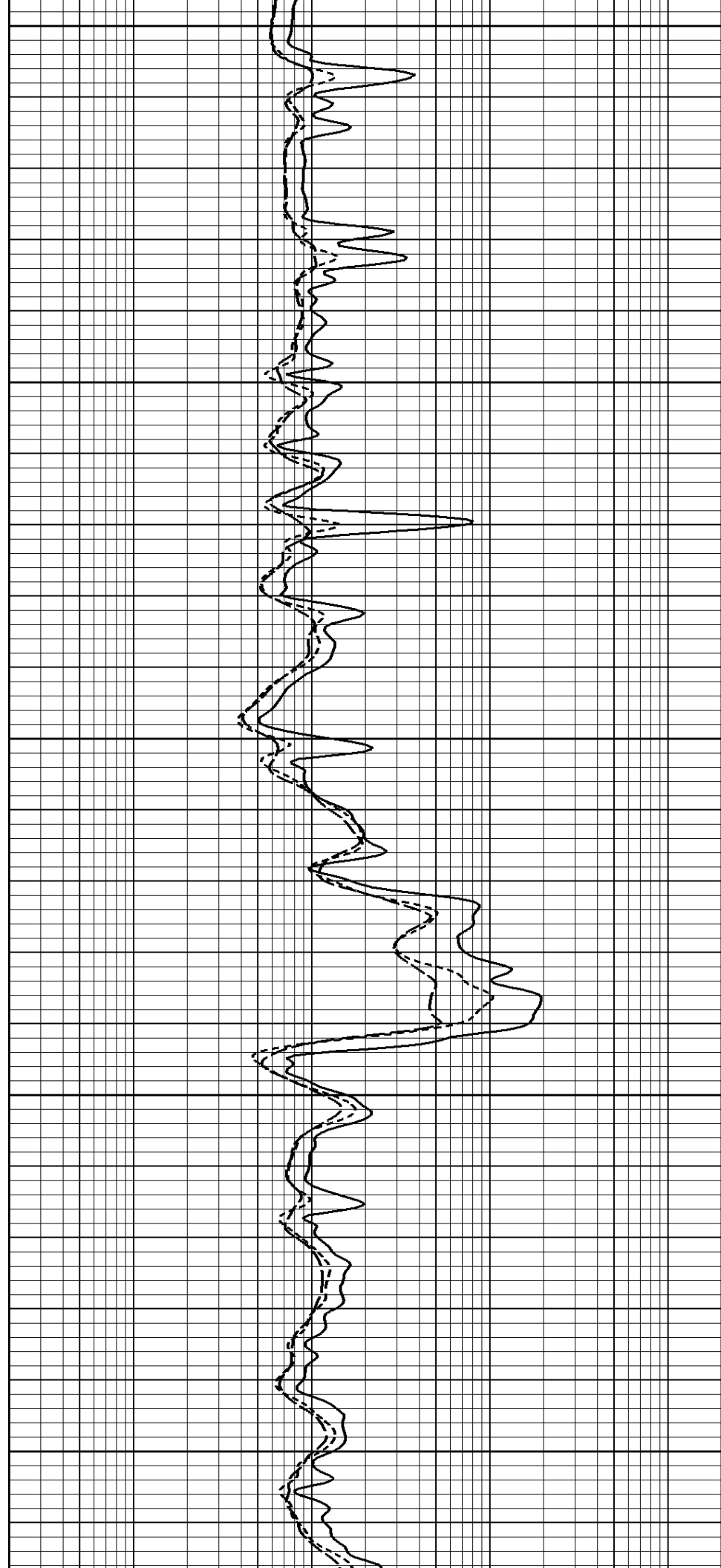


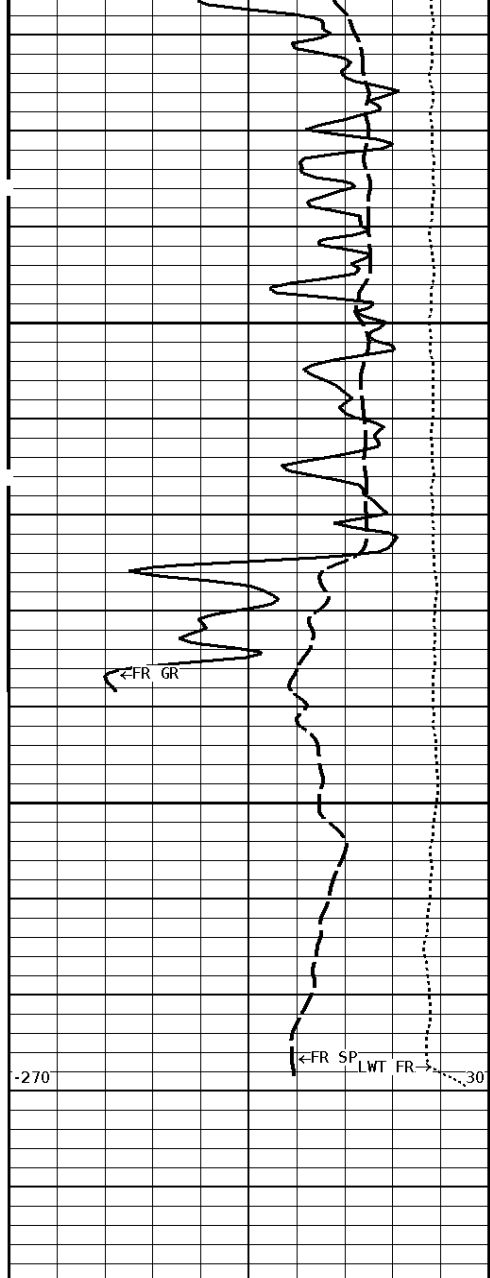




600

700

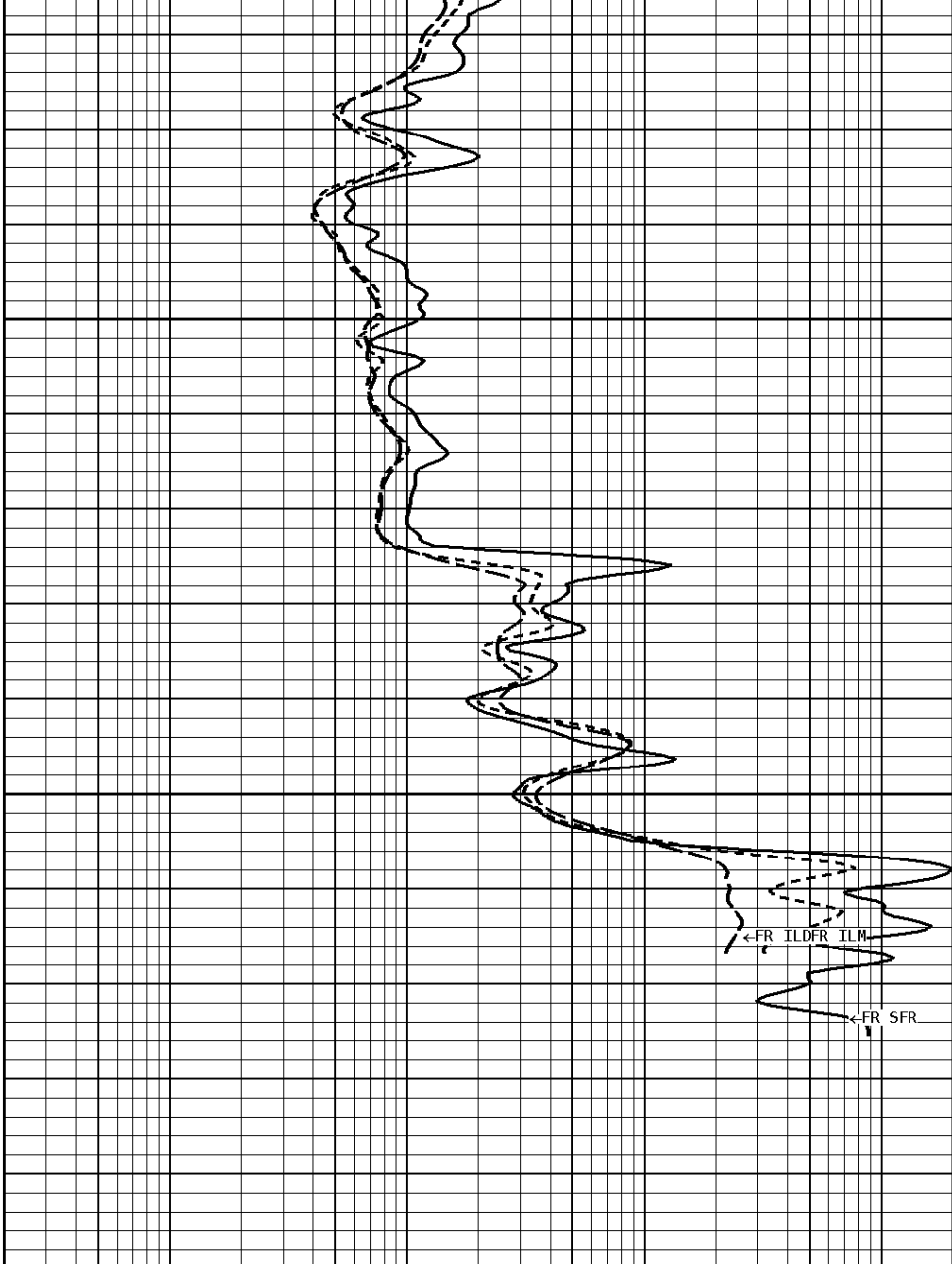




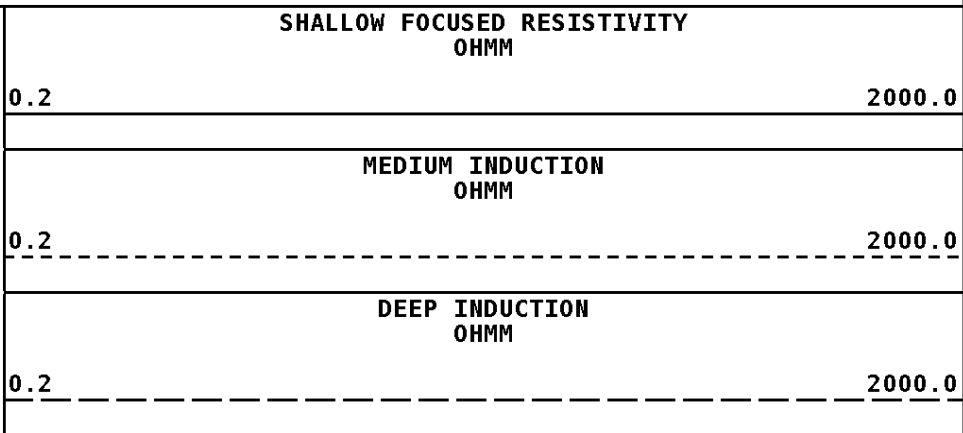
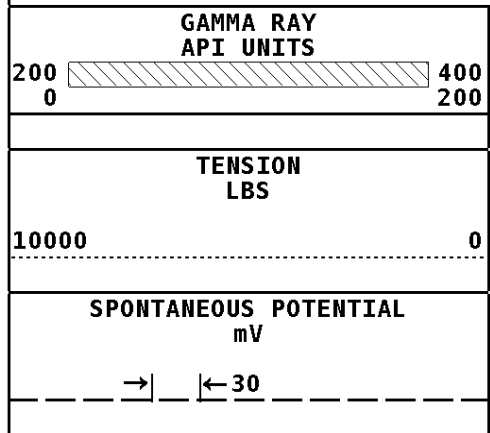
File #1.1.5

800

878



**1:240 MAIN SECTION**



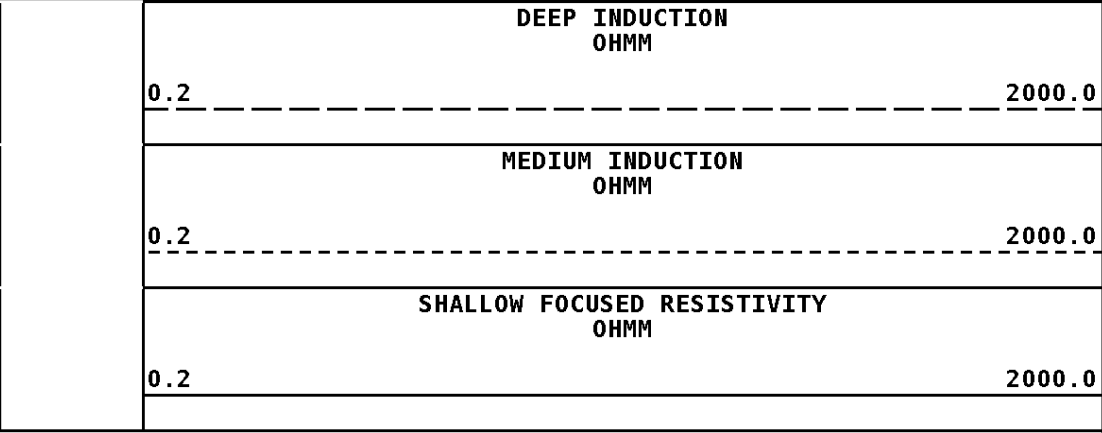
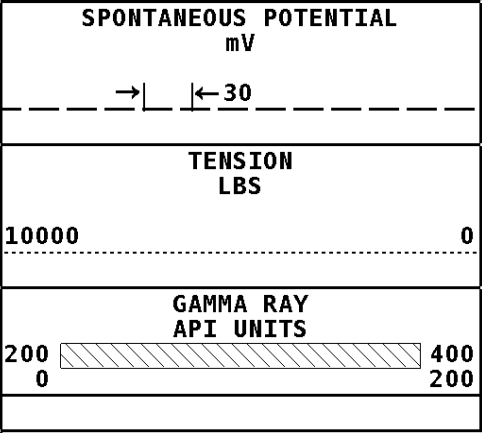
**\* Borehole Zone Factors \***

<b>Zone 1</b>	<b>99999.0</b>	<b>to</b>	<b>0.0</b>	<b>Feet</b>
Drill Bit Size			6.750	in
Casing Diameter			4.500	in
BHT Depth			878.000	ft
Borehole Temperature			83.0	degF

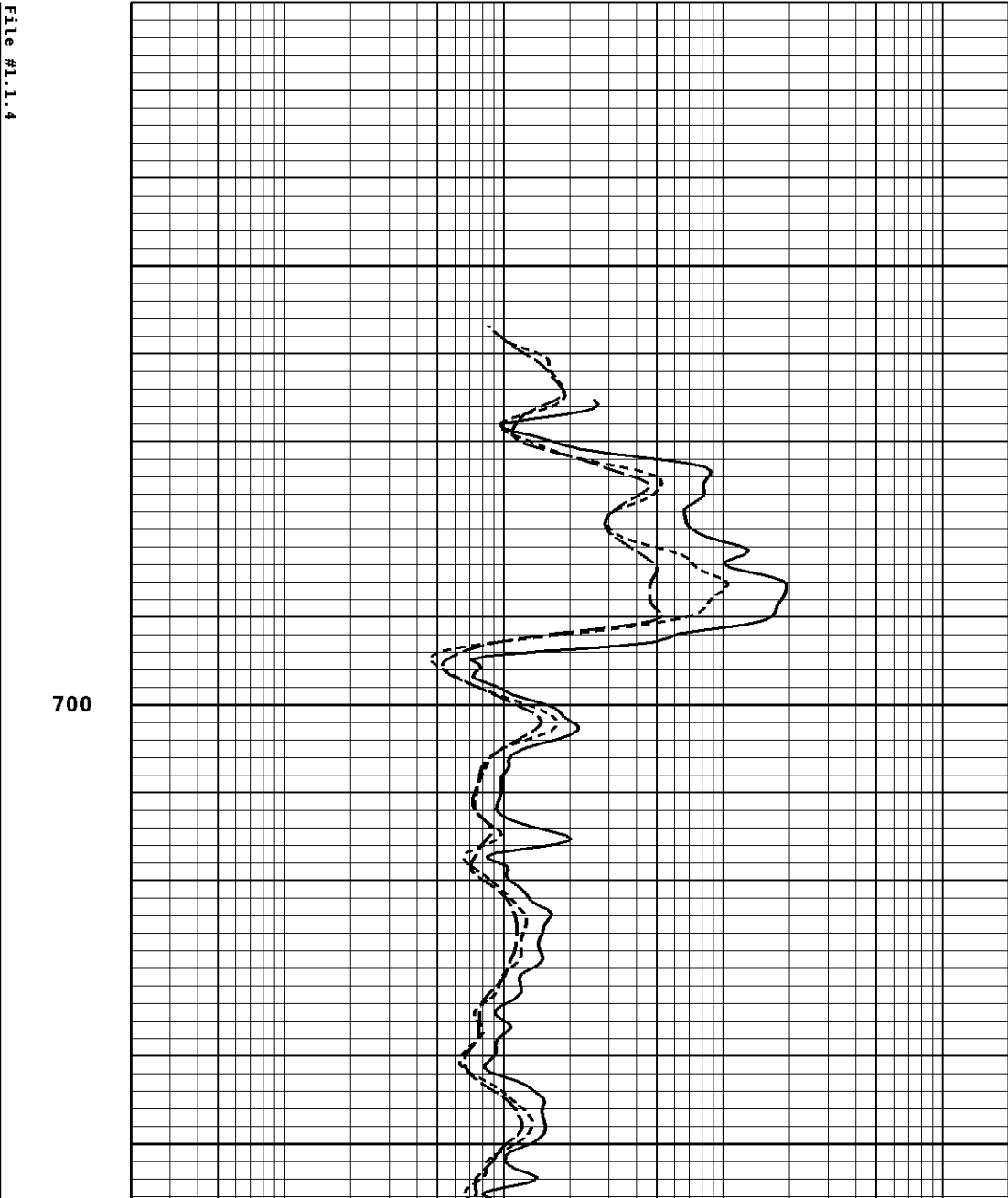
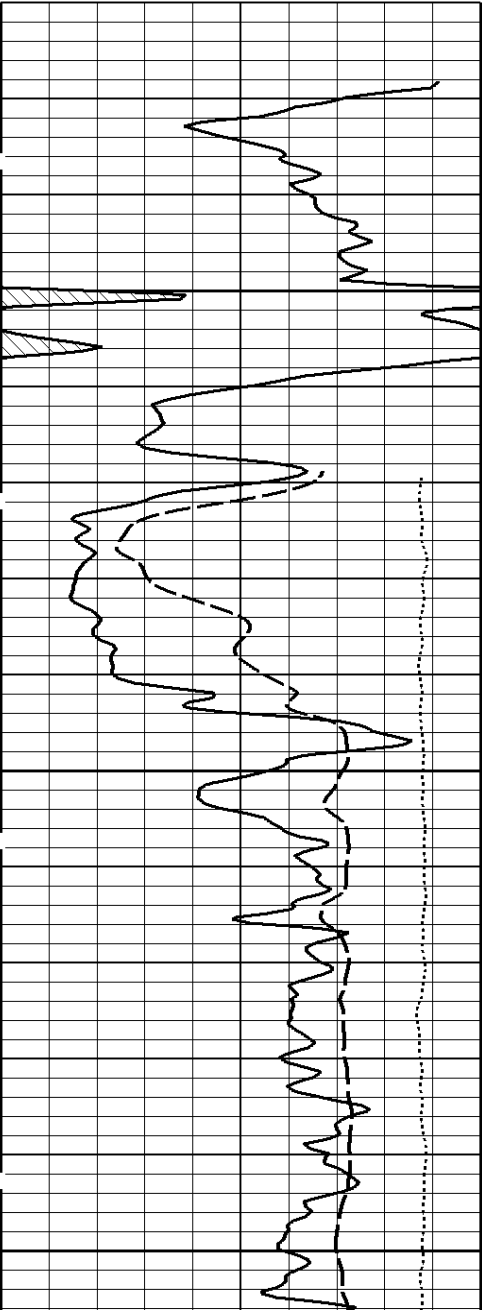
Temperature Gradient \_\_\_\_\_  
Resistivity Of Mud \_\_\_\_\_  
Resistivity Of Mud Temperature \_\_\_\_\_

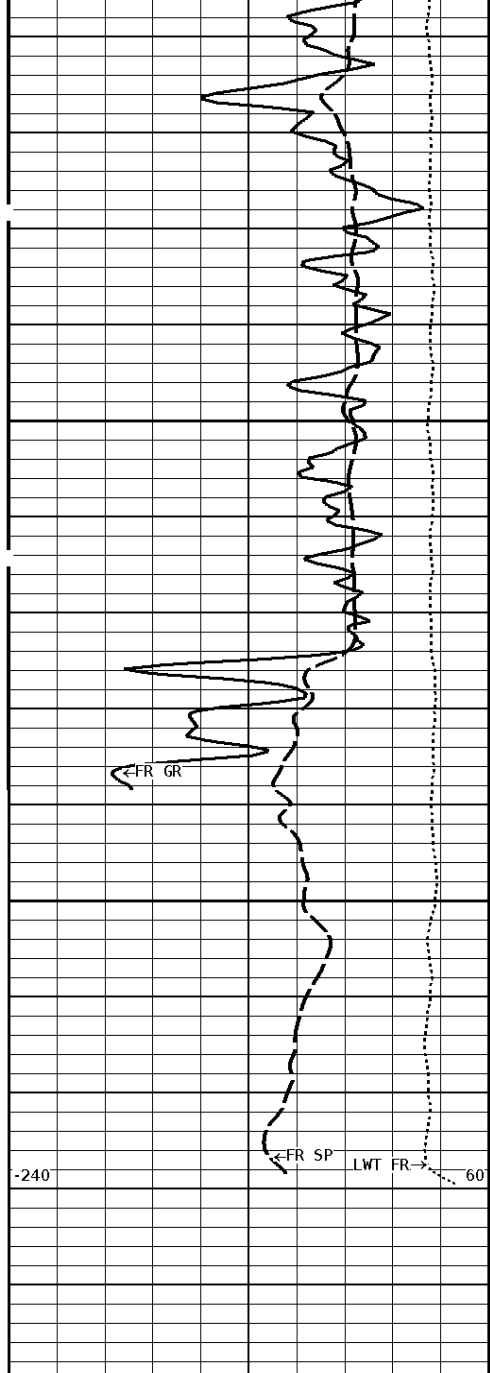
1.00 DFHF  
10.00 ohm/m  
80.00 degF

Well File: RFP\_HOL\_1-22A-4\_APR\_30\_STK      Scale: 1:240      Format: DIL-240  
Segment: V1.D1.S4\_REPEAT      Acquired: 2013-04/30 17:14 3.3.0-11923  
Reference: 0      Processed: 2013-04/30 18:04 3.3.0-11923



### 1:240 REPEAT SECTION



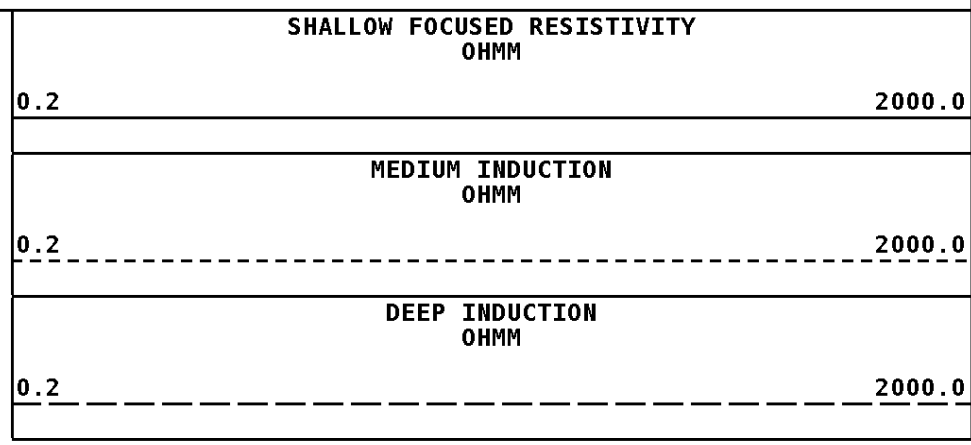
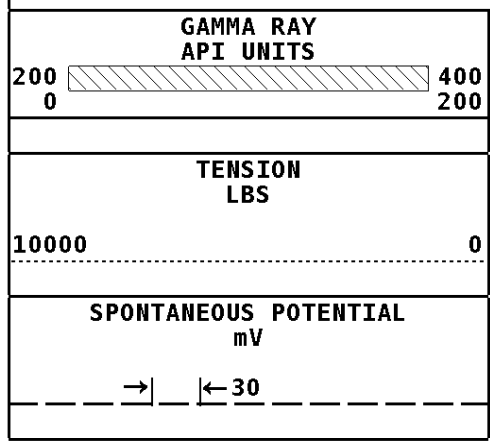
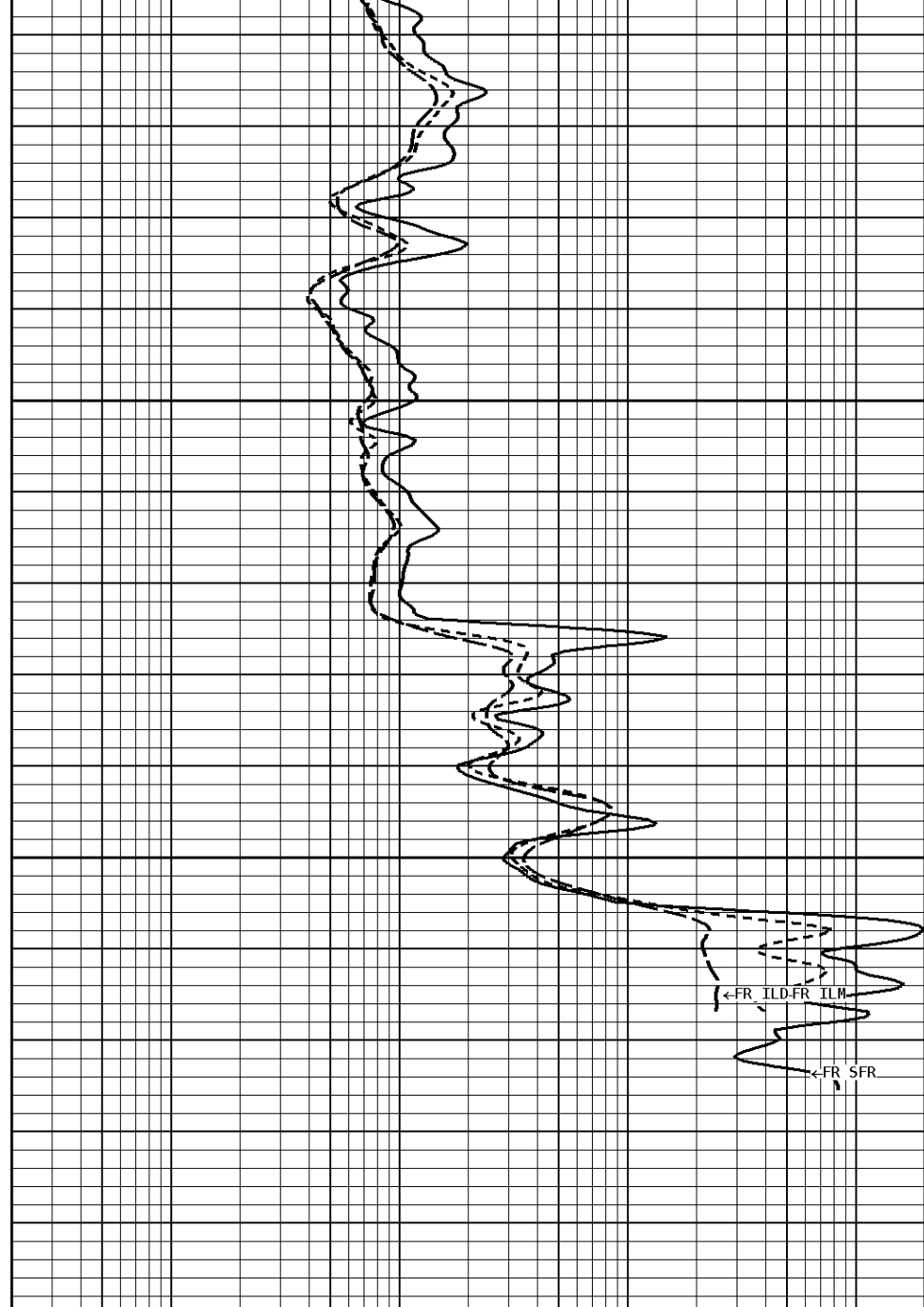


800

878

File #1.1.4

**1:240 REPEAT SECTION**



**\* Borehole Zone Factors \***

**Zone 1 99999.0 to 0.0 Feet**

Drill Bit Size	6.750	in
Casing Diameter	4.500	in
BHT Depth	878.000	ft
Borehole Temperature	83.0	degF
Temperature Gradient	1.00	DFHF
Resistivity Of Mud	10.000	ohm/m
Resistivity Of Mud Temperature	80.00	degF

**\* Calibration Summary \***

Shop Calibration					
GRT-B					
Performed : 17-Apr-2013			Time : 11:05		
Sensor Suite : GR-GR5			ID : GRT-BA-14		
	Measured	Units	Calibrated	Units	
GR	Background	Jig	Jig	GRAPI	
	46	367	175		

Shop Calibration					
PIT-CA					
Performed : 22-APR-2013			Time : 12:20		
Sensor Suite : P-IND-T			ID : PIT--AB-16		
Medium					
	Measured		Calibrated		Units
	R	X	R	X	
Air	130882	130506	0.0	0.0	MMHOS
Zero	131063	131065	9.4	18.5	MMHOS
Reference	249780	250267	5009.4	5018.5	MMHOS
Loop	128010	217984	3548.4	3790.3	MMHOS
Sonde Error			-3.2	-6.8	MMHOS
Cond			5009.4	5018.5	MMHOS
Deep					
	Measured		Calibrated		Units
	R	X	R	X	
Air	128673	131410	0.0	0.0	MMHOS
Zero	131069	131074	50.2	-11.4	MMHOS
Reference	231608	232584	2050.2	1988.6	MMHOS
Loop	125419	219626	1673.4	1802.8	MMHOS
Sonde Error			-2.3	-7.3	MMHOS
Cond			2050.2	1988.6	MMHOS
Temperature					
	Measured		Calibrated		Units
	Low	High	Low	High	
	16980.0	56920.0	70.0	350.0	DEGF

Performed : 22-Apr-2013			Time : 12:09		
Sensor Suite : SFL			ID : PIT--AB-16		
Internal					
	Measured		Calibrated		Units
	Zero	Reference	Zero	Reference	
Im	32767.0	49662.3	0.0	7028.0	uA
Ib	32769.0	48863.1	0.0	1750.0	mA
MOM1	32815.1	57263.4	0.0	175.0	mV
Equivalent SFL				43.97	OHMM

Performed : 22-Apr-2013			Time : 12:06		
Sensor Suite : P-SP			ID : PIT--AB-16		
Internal					
	Measured		Calibrated		Units
	Zero	Reference	Zero	Reference	
	32792.1	58951.9	0.0	1000.0	mV

**Well File:** RFP\_HOL\_1-22A-4\_APR\_30\_STK **Scale:** 1:1200 **Format:** DIL1200  
**Segment:** V1.D1.S5 MAIN **Acquired:** 2013-04/30 17:27 3.3.0-11923  
**Reference:** 0 **Processed:** 2013-04/30 18:05 3.3.0-11923

TENSION LBS
10000 ----- 0
SPONTANEOUS POTENTIAL mV
→   ← 30

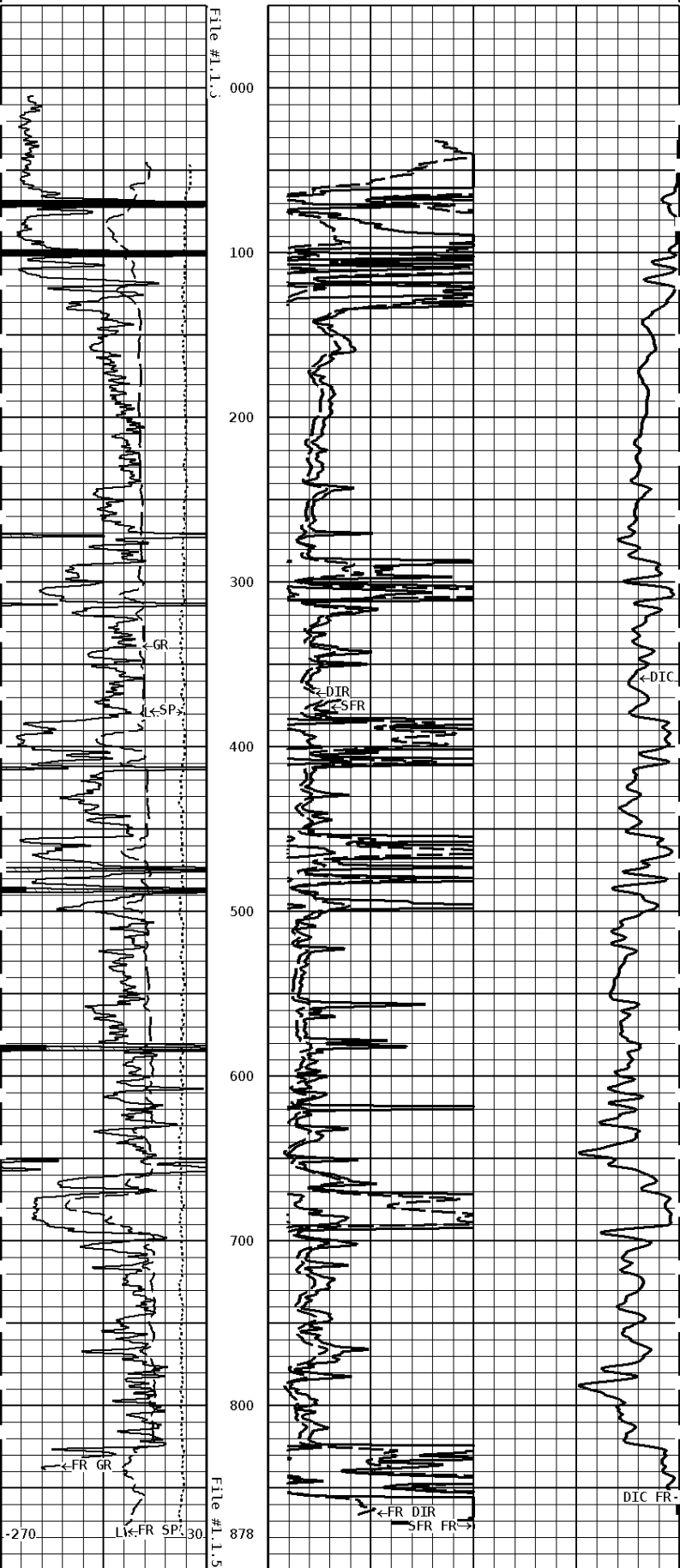
DEEP INDUCTION OHMM
0.0 500.0 0.0 50.0
SHALLOW FOCUSED OHMM
0.0 500.0 0.0 50.0

DEEP CONDUCTIVITY MHMO
---------------------------

200 400 200

2000 1000 0

1:1200 MAIN SECTION



1:1200 MAIN SECTION

GAMMA RAY  
API UNITS  
200 0 400  
200

DEEP CONDUCTIVITY  
MHMO  
2000 1000  
1000 0

SPONTANEOUS POTENTIAL  
mV  
→ | ← 30

SHALLOW FOCUSED  
OHMM  
0.0 500.0  
0.0 50.0

TENSION  
LBS  
10000 0

DEEP INDUCTION  
OHMM  
0.0 500.0  
0.0 50.0



Company: RUNNING FOXES PETROLEUM INC.  
Well: HOLEMAN #1-22A-4  
Location: 495' FNL & 165' FEL  
Logged: 04-30-2013  
K.B. Elev: 0.0 Ft