

Tucker
ENERGY SERVICES

PHASED INDUCTION

SHALLOW FOCUS SP LOG

Company RUNNING FOXES PETROLEUM		N	
Well HILL #2-22A-3			
Field OSAGE			
County BOURBON			
State KANSAS			
Country USA			
API No. 15-011-24454			
File No : TUL-59784			
Company : RUNNING FOXES PETROLEUM INC.			
Well : HILL #2-22A-3			
Field : OSAGE			
County : BOURBON			
State : KANSAS			
Country : USA			
API No : 15-011-24454			
Location : 495' FNL & 1970' FEL SW NE NW NE			
LSD :	Sect : 22	Twp : 24S	Rge : 25E
Permanent Datum: GL		Elevations: KB 0.00 Ft	
Drilling Measured From: GL		DF 0.00 Ft	
Log Measured From: GL		GL 871.00 Ft	
Above Permanent Datum: 0.00 Ft		PIT	
Date	08-22-2014		
Run Number	1		
Depth--Driller	440.0 Ft		
Depth--Logger	432.0 Ft		
First Reading	432.0 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		
Fluid Loss	0.0		
PH/Viscosity	0.0		
Sample Source	MEASURED		
RMF@Measured Temp.	1.300 @ 80 F		
RMF@Measured Temp	1.100 @ 80 F		
RMF@Measured Temp.	1.500 @ 80 F		
Source RMF/RMC	CALCULATED/CALCULATED		
RM@BHT	1.200 @ 80 F		
Time Circulation Stopped			
Max Recorded Temp.	80 F		
Equipment/Base	T-126 TULSA		
Recorded By	S.K. DAVIS		
Witnessed By	C. TAYLOR		

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)
6.250	432.00	8.625	24.00	20.00	0.00

Run Number	1	
Date	08-22-2014	
Date/Time On Bottom	08-22-2014 9:45 am	
Depth to Fluid	0.0 Ft	
Salinity	0.000	
RMF@BHT	1.000 @ 80 F	
RMC@BHT	1.300 @ 80 F	

Run Number 1

Comments

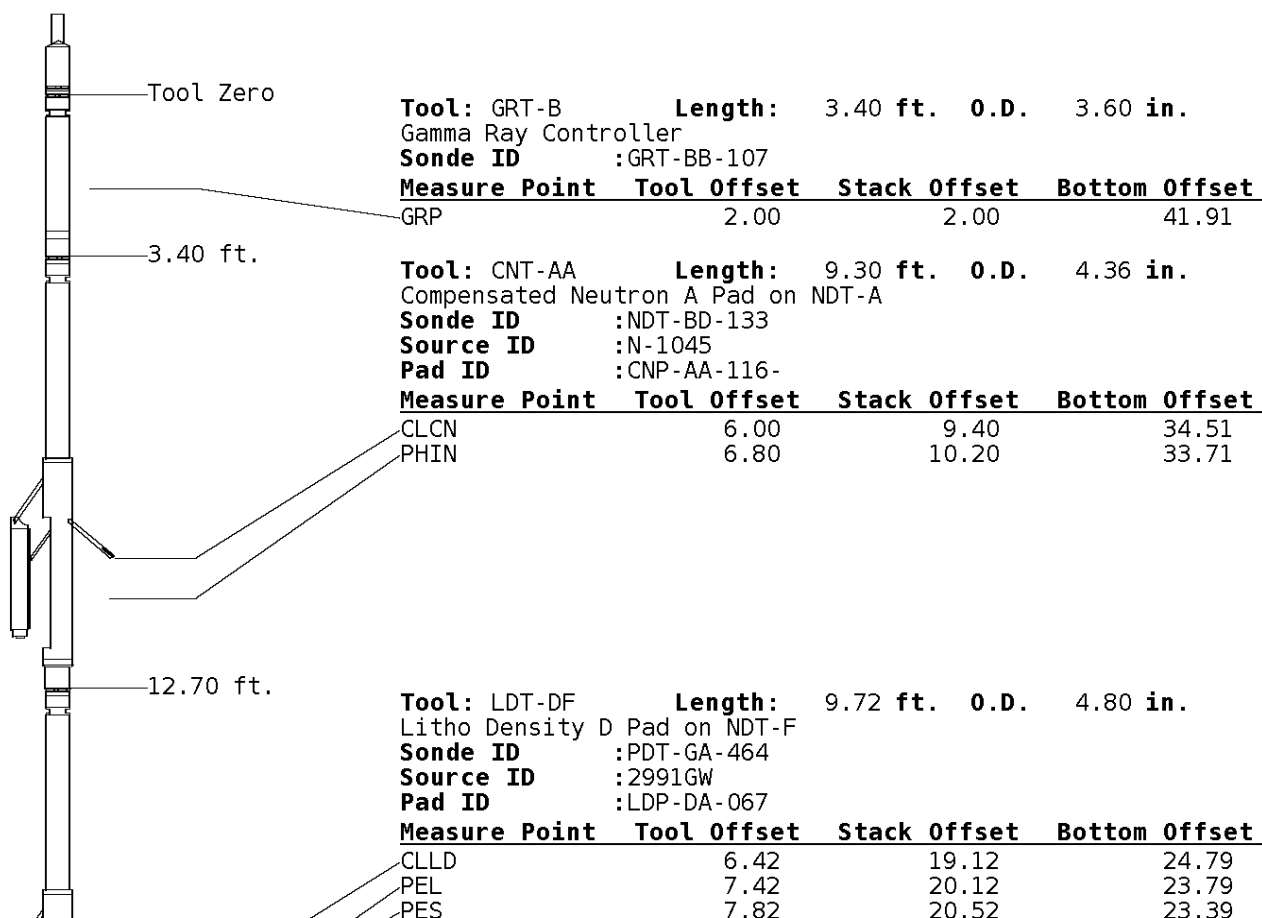
ALL PRESENTATION PER CUSTOMER REQUEST
 GRT,CNT,LDT,PIT RUN IN COMBINATION
 CALIPERS ORIENTED ON X-Y AXIS
 2.71 G/CC USED TO CALCULATE POROSITY
 ANNULAR & BOREHOLE VOLUME CALCULATED USING 2.875 PRODUCTION CASING
 PHIN IS CALIPER CORRECTED

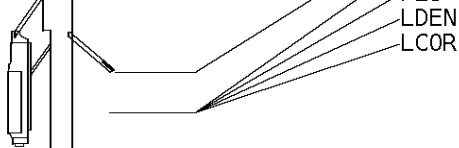
GRT; GRP
 CNT; PHIN, CLCNIN
 LDT; PORL, LCORN, PECLN, LDENN, CLLDIN
 PIT; ILD, ILM, SPU, SFLAEC, CIRD

OPERATORS;
 D. DUNCAN
 C. GONZALES
 J. THOMAS

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

22.42 ft.

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: rfp-hill-2-22a-3-stk-aug-22

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

Segment: V1.D1.S5 MN

Acquired: 2014-08/22 09:46 3.3.0-12594

Reference: 0

Processed: 2014-08/22 10:05 3.3.0-12594

TENSION
LBS

10000 ————— 0

DEEP INDUCTION
OHMM

0.0 ————— 500.0
 0.0 ————— 50.0

SPONTANEOUS POTENTIAL
mV

→ | ← 20

SHALLOW FOCUSED RESISTIVITY
OHMM

0.0 ————— 500.0
 0.0 ————— 50.0

GAMMA RAY
API UNITS

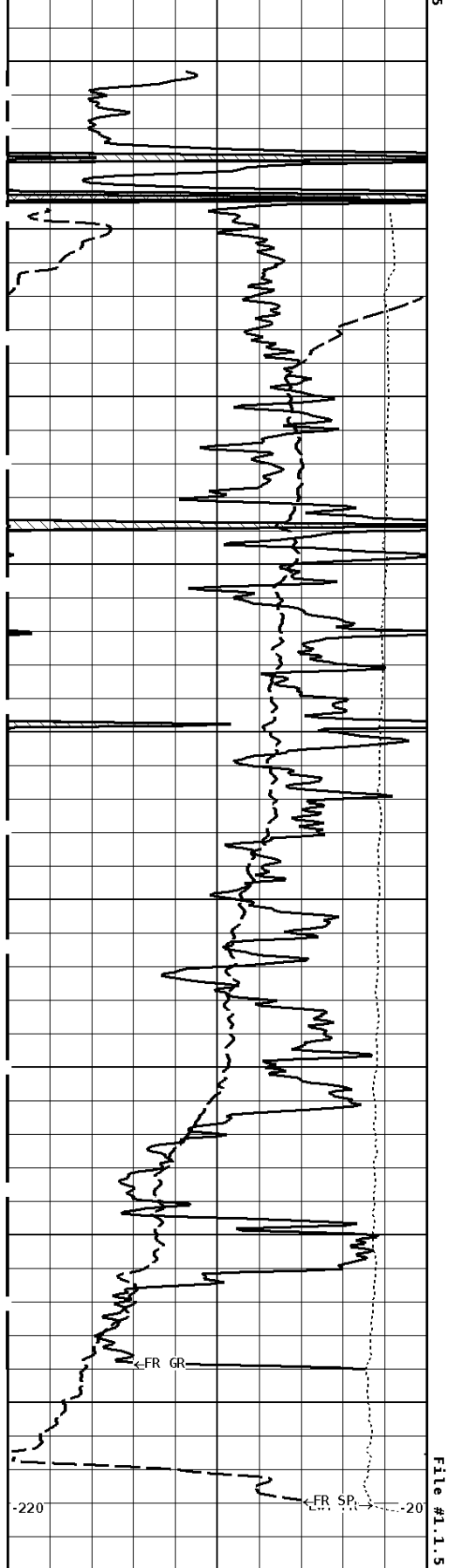
200 ————— 400
 0 ————— 200

DEEP CONDUCTIVITY
MMHO

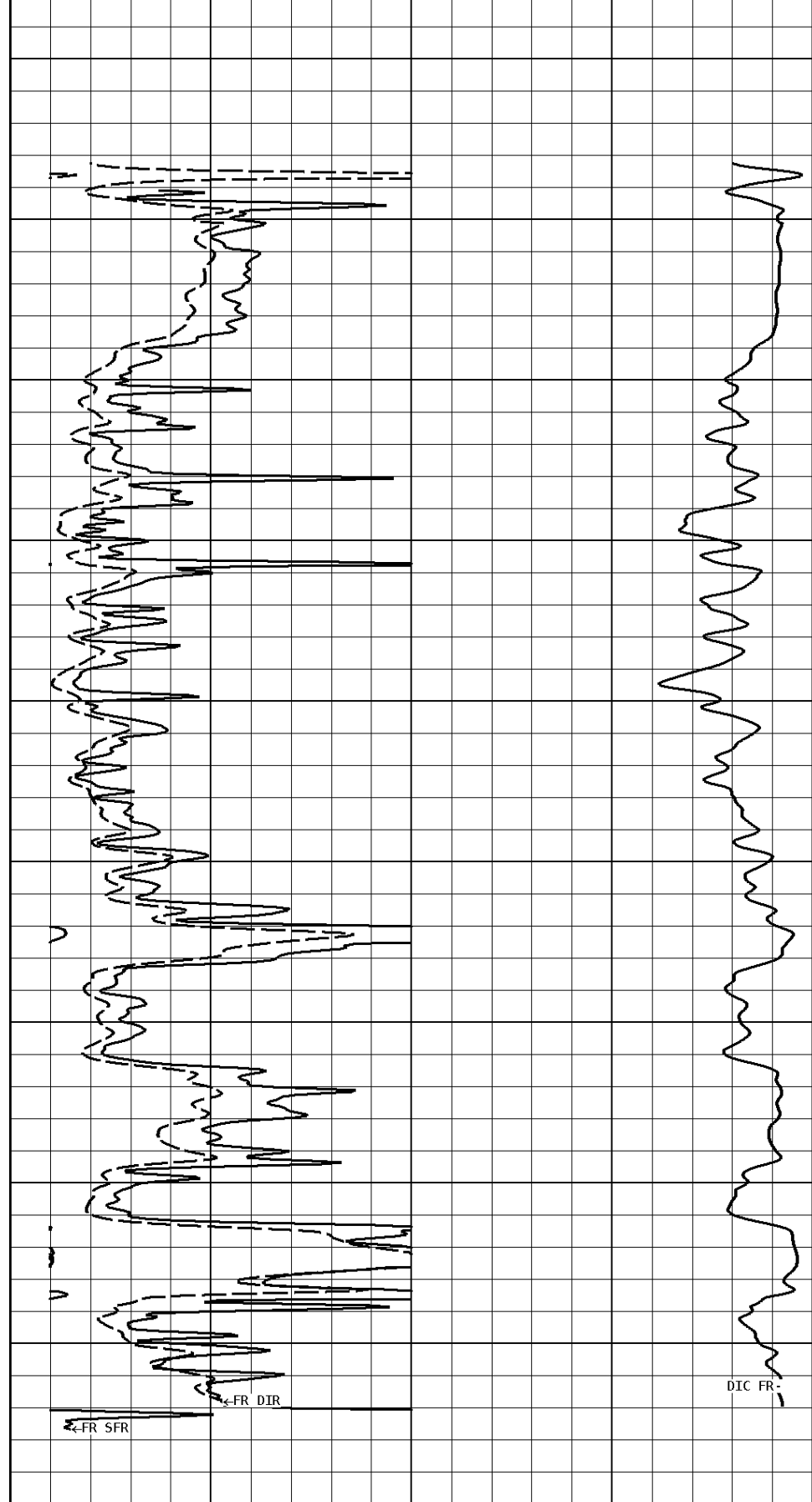
2000 ————— 1000
 1000 ————— 0

1:600 MAIN SECTION

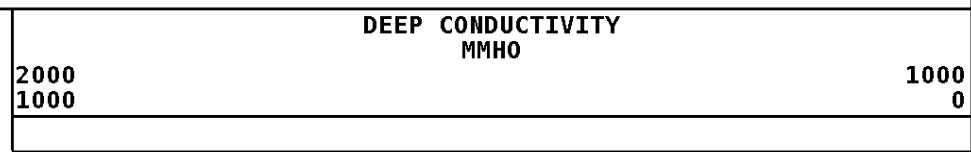
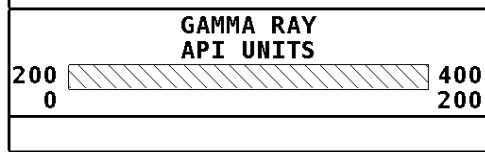
File #1.1.1

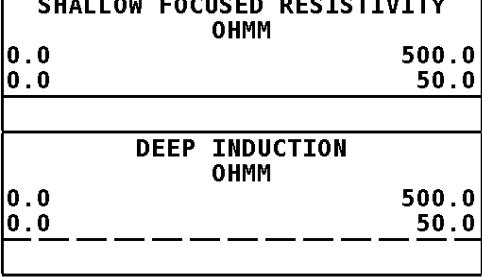
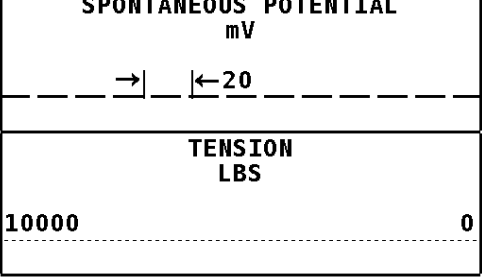


000
100
200
300
400
432

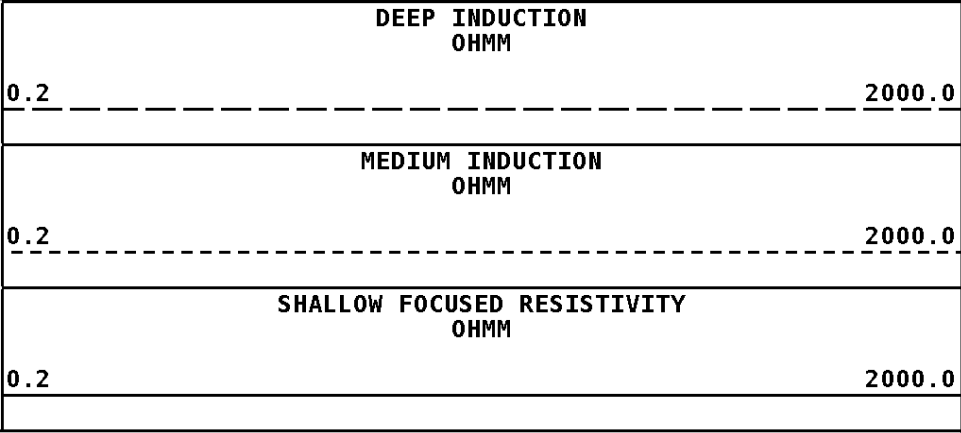
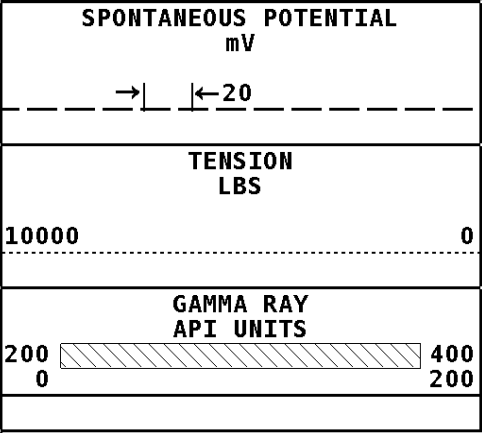


1:600 MAIN SECTION

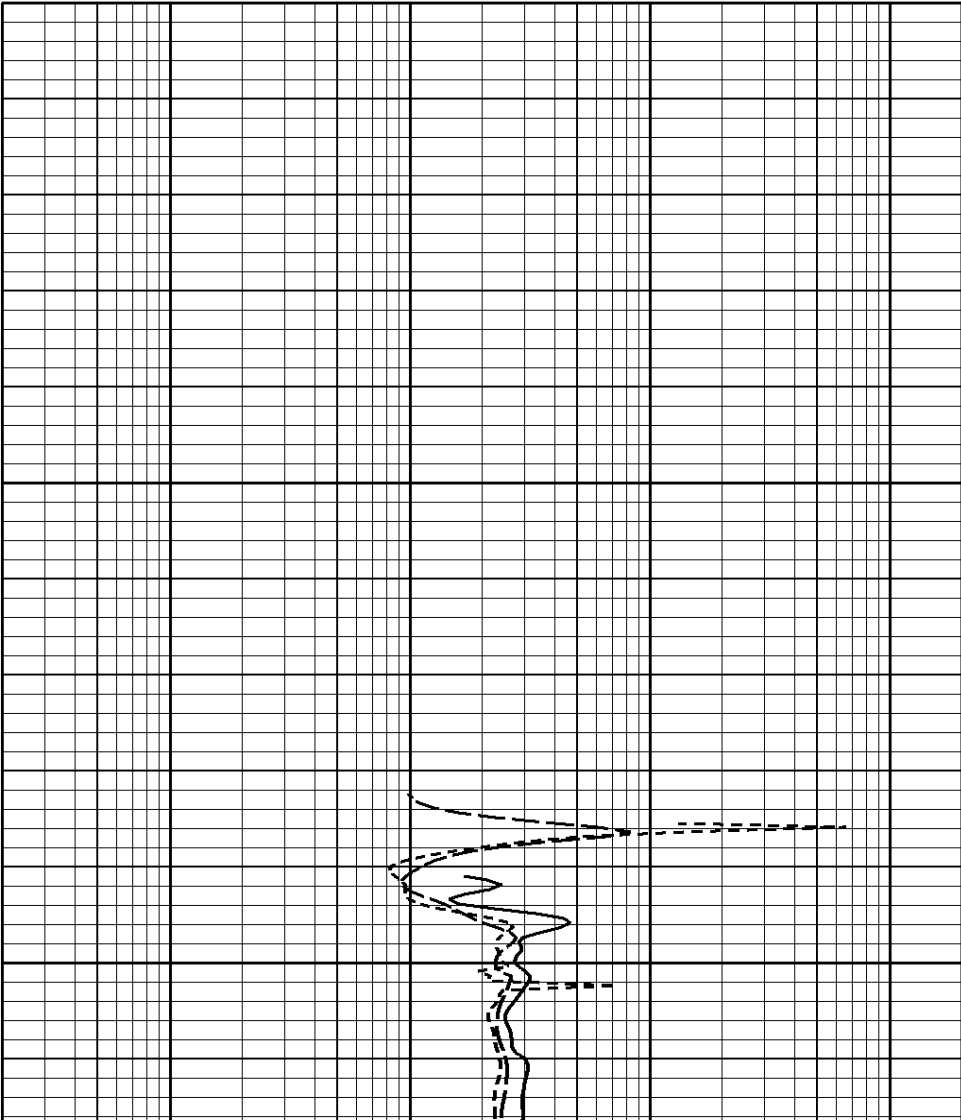
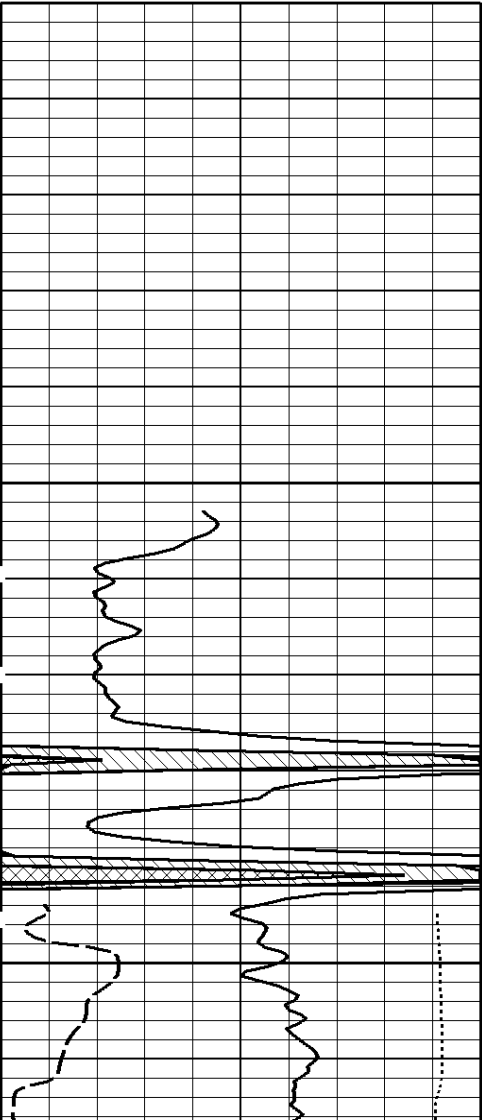


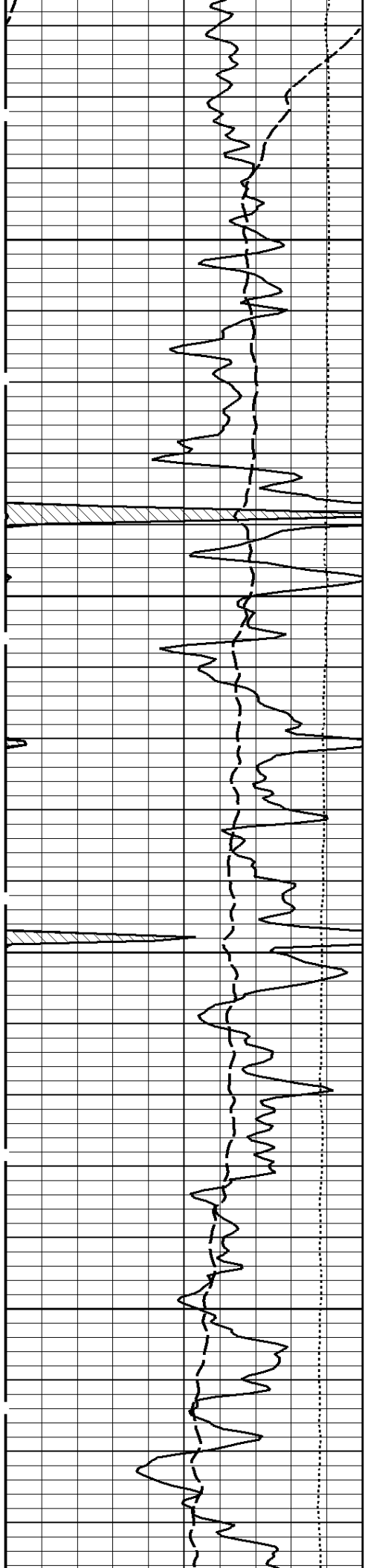


Well File: rfp-hill-2-22a-3-stk-aug-22 Scale: 1:240 Format: DIL-240
Segment: V1.D1.S5 MN Acquired: 2014-08/22 09:46 3.3.0-12594
Reference: 0 Processed: 2014-08/22 10:05 3.3.0-12594



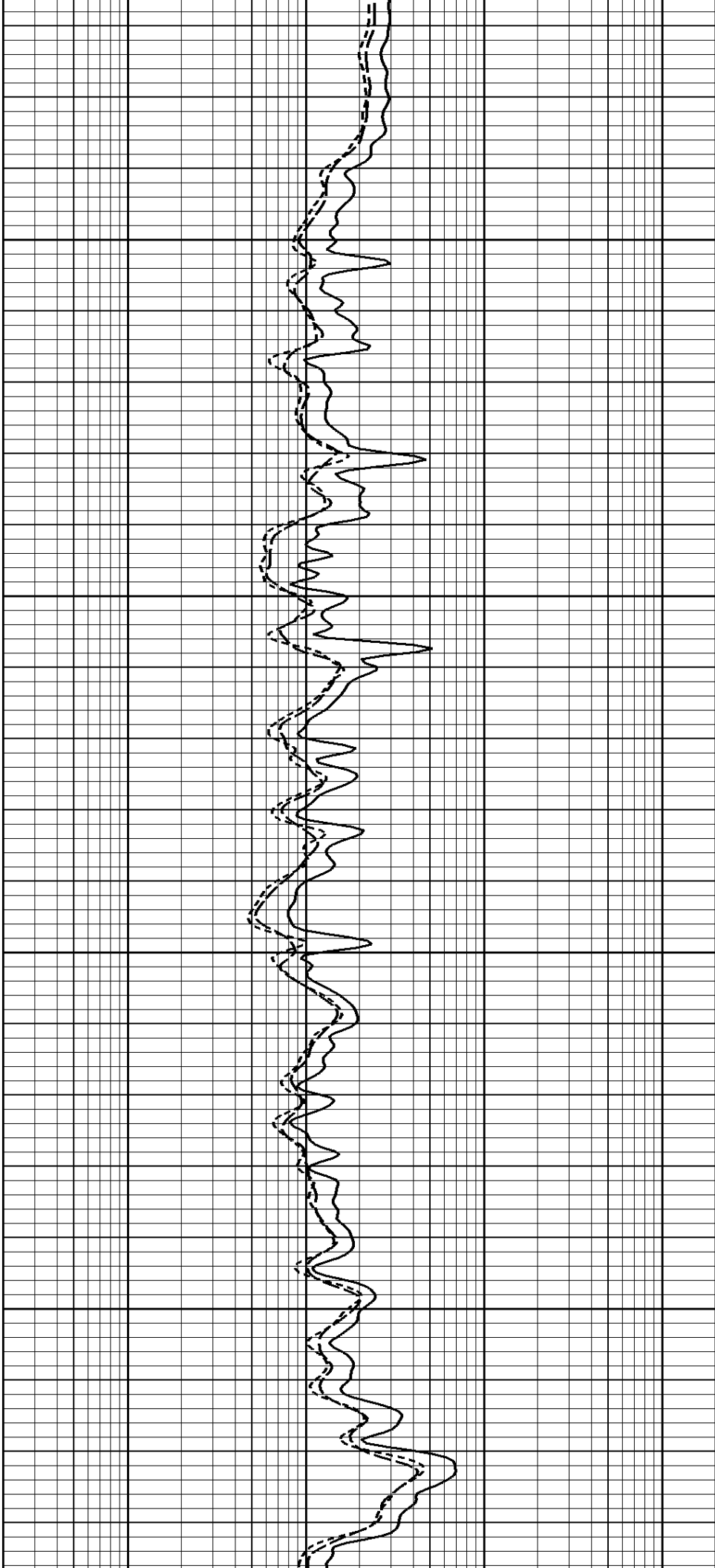
1:240 MAIN SECTION

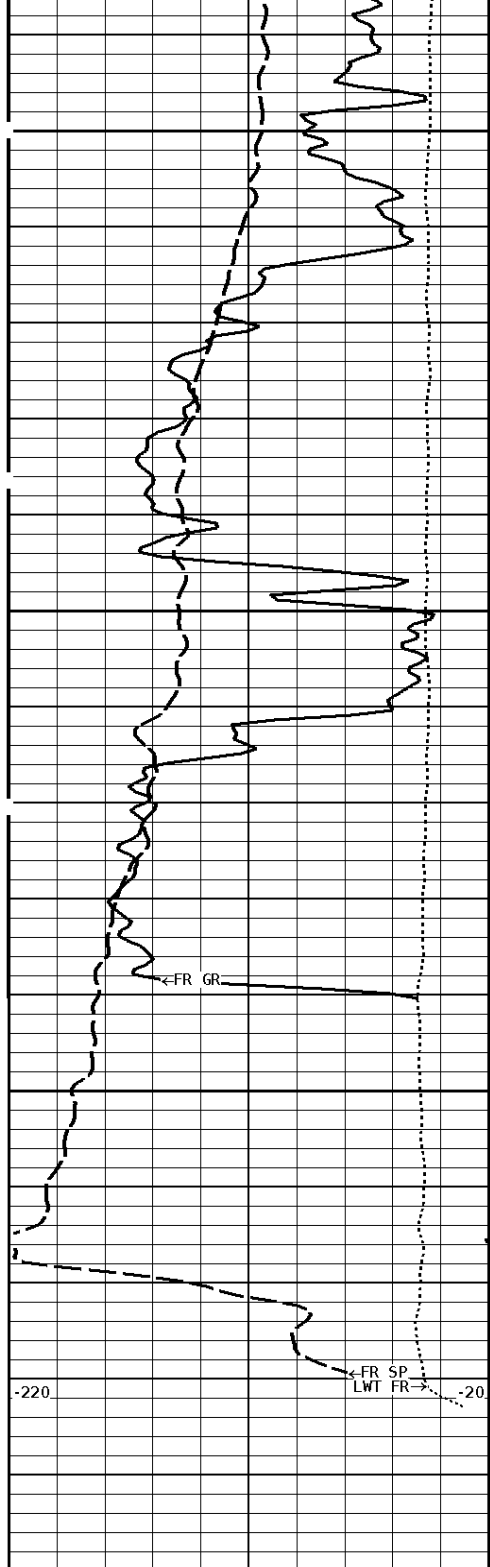




100

200





300

400

432

←FR GR

←FR SP

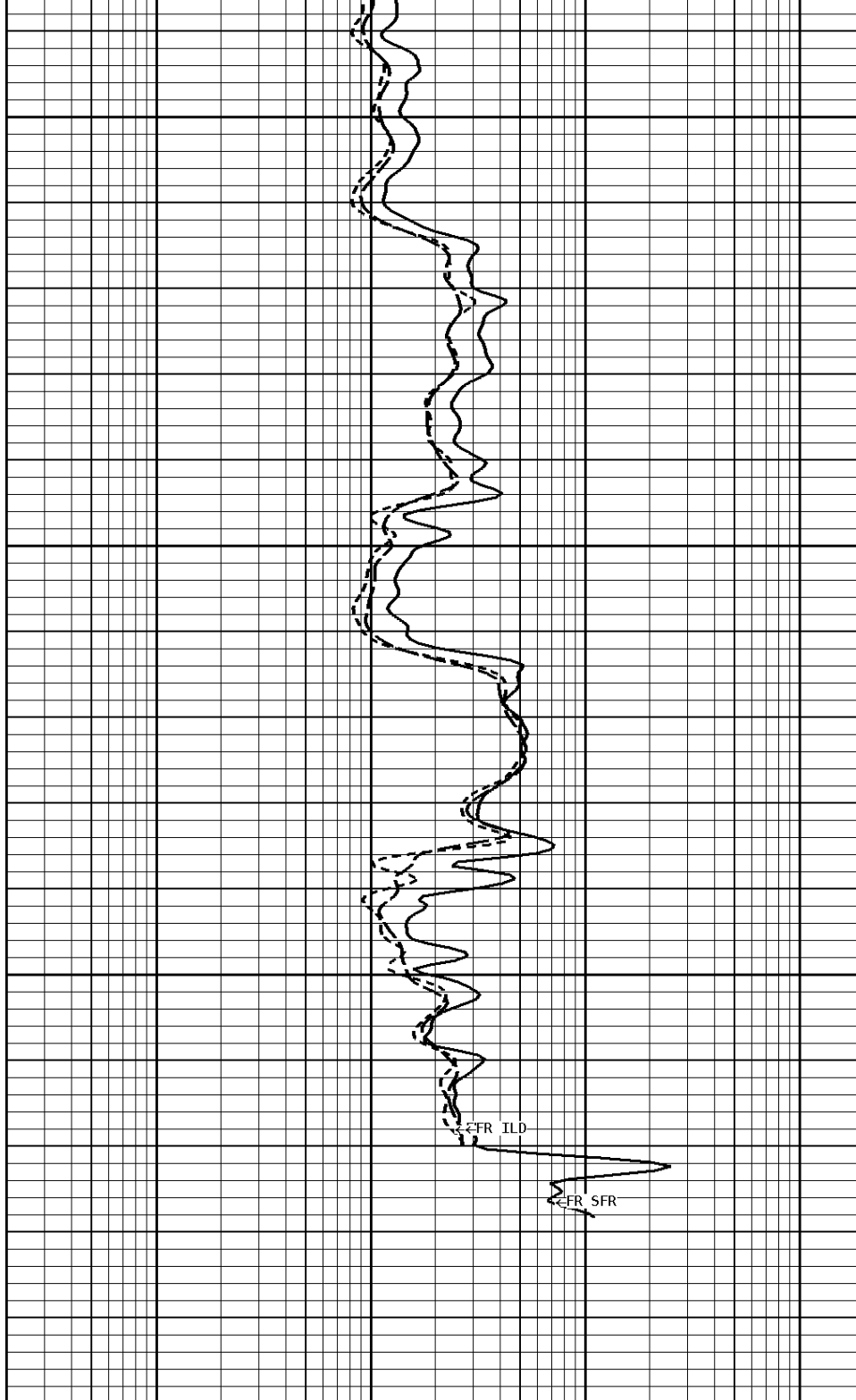
LWT FR

-220

-20

File #1.1.5

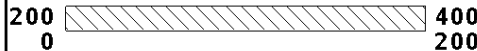
1:240 MAIN SECTION



←FR ILD

←FR SFR

GAMMA RAY
API UNITS



TENSION
LBS



SPONTANEOUS POTENTIAL
mV

→ | ← 20

SHALLOW FOCUSED RESISTIVITY
OHMM



MEDIUM INDUCTION
OHMM



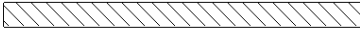
DEEP INDUCTION
OHMM



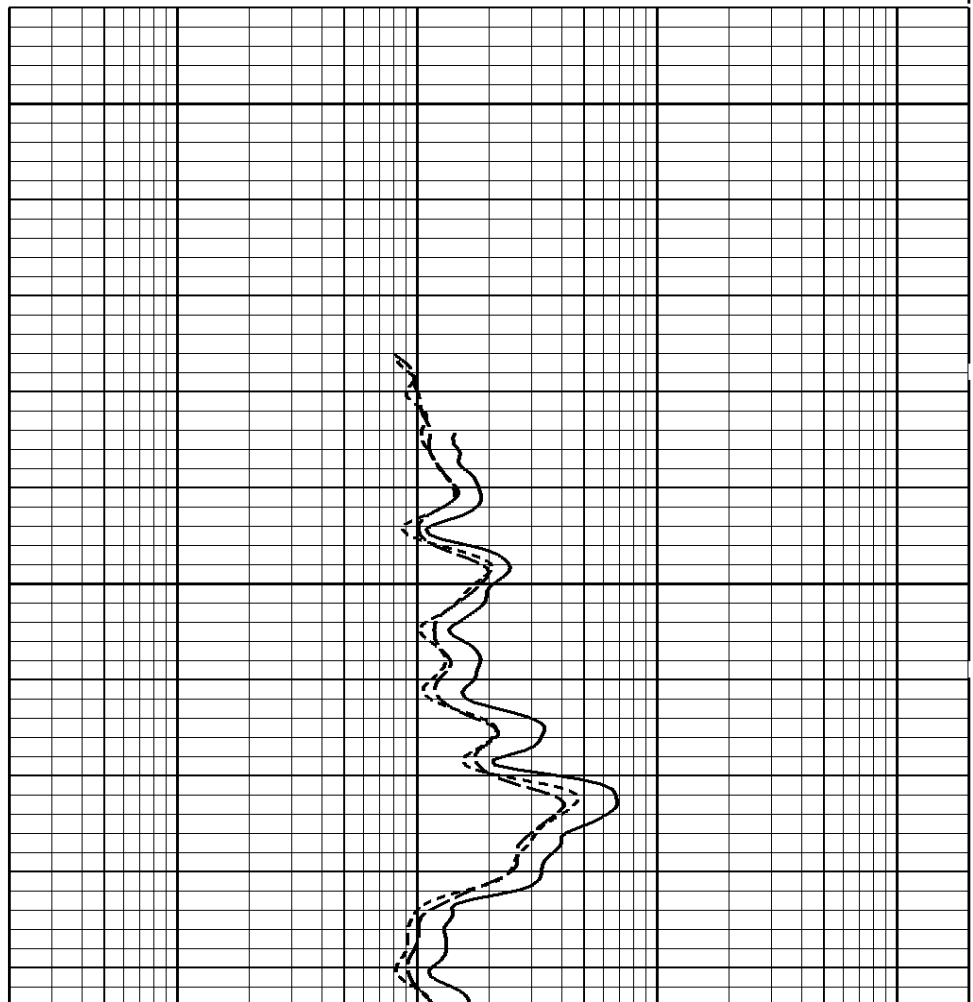
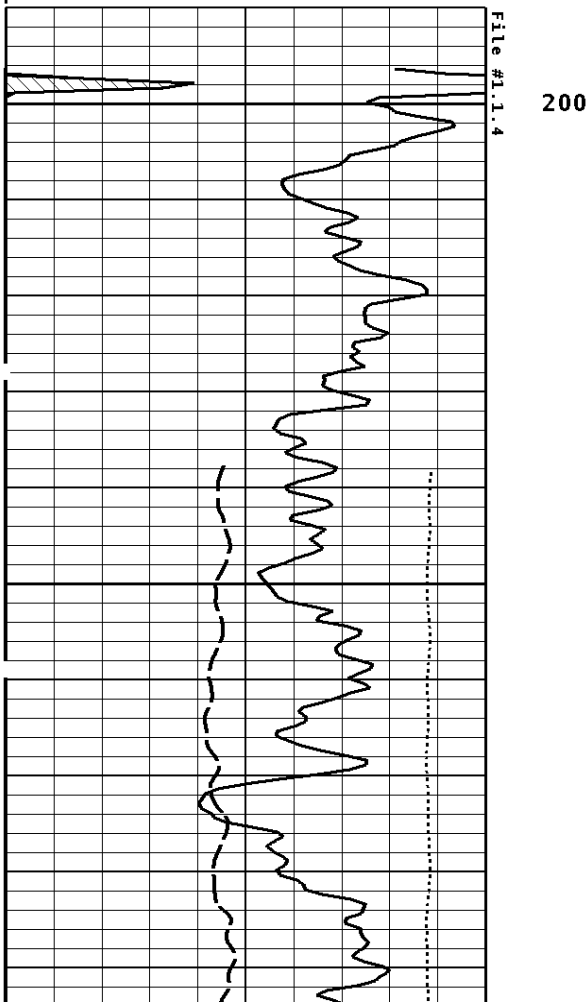
*** Borehole Zone Factors ***

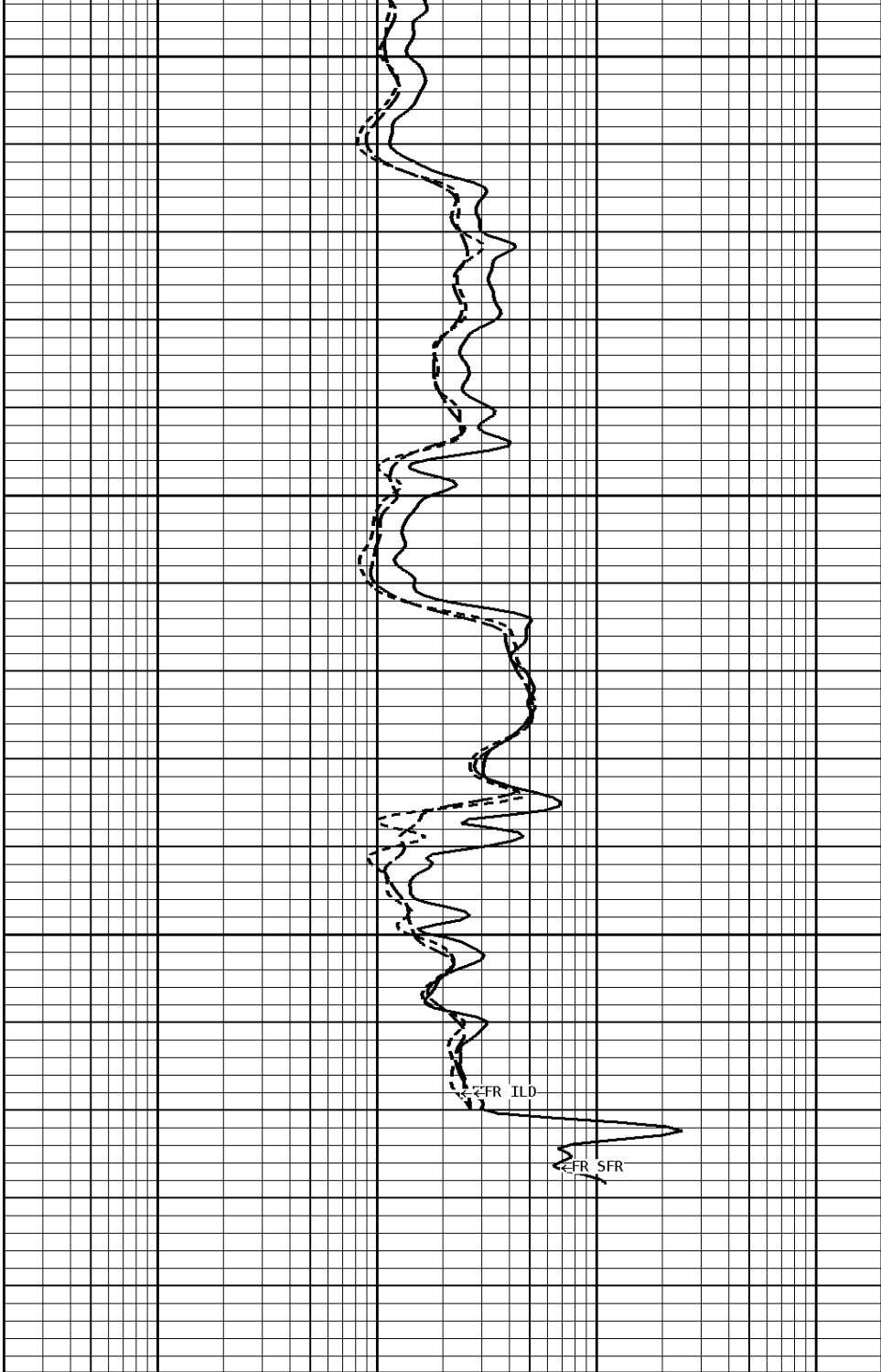
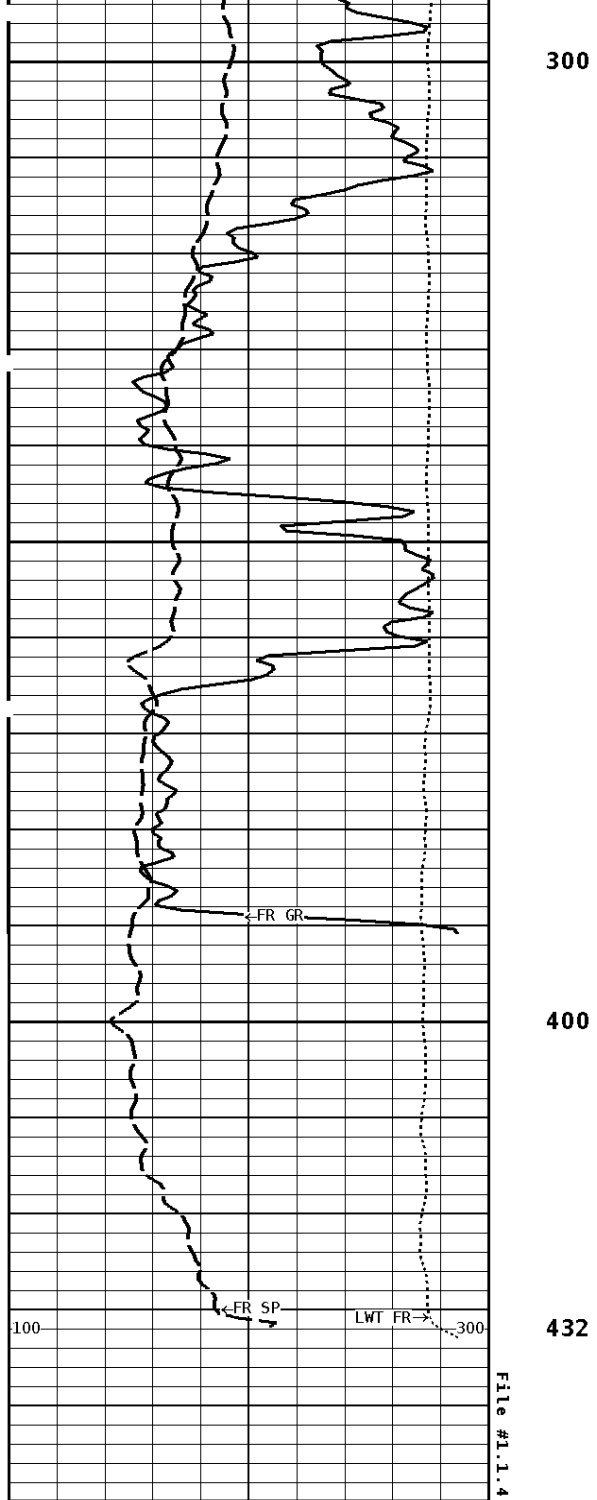
Zone 1 99999.0 to 0.0 Feet		
Drill Bit Size	6.750	in
Casing Diameter	2.875	in
BHT Depth	432.000	ft
Borehole Temperature	80.0	degF
Temperature Gradient	1.00	DFHF
Resistivity Of Mud	1.300	ohm/m
Standoff	1.5	
Resistivity Of Mud Temperature	70.00	degF

Well File: rfp-hill-2-22a-3-stk-aug-22	Scale: 1:240	Format: DIL-240
Segment: V1.D1.S4 RP	Acquired: 2014-08/22 09:33 3.3.0-12594	
Reference: 0	Processed: 2014-08/22 10:05 3.3.0-12594	

SPONTANEOUS POTENTIAL mV → ← 20 ----- TENSION LBS 10000 ----- 0 ----- GAMMA RAY API UNITS 200  400 0 ----- 200		DEEP INDUCTION OHMM 0.2 ----- 2000.0 ----- MEDIUM INDUCTION OHMM 0.2 ----- 2000.0 ----- SHALLOW FOCUSED RESISTIVITY OHMM 0.2 ----- 2000.0 -----
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1:240 REPEAT SECTION





1:240 REPEAT SECTION

GAMMA RAY API UNITS	
200 0	400 200
TENSION LBS	
10000	0
SPONTANEOUS POTENTIAL mV	
→	← 20

SHALLOW FOCUSED RESISTIVITY 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			432.000	ft
Borehole Temperature			80.0	degF
Temperature Gradient			1.00	DFHF
Resistivity Of Mud			1.300	ohm/m
Standoff			1.5	
Resistivity Of Mud Temperature			70.00	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	
	Background	Jig	Jig		
GR	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		
	R	X	R	X	Units
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		
	R	X	R	X	Units
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		
	Low	High	Low	High	Units
	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		
	Zero	Reference	Zero	Reference	Units
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			Time : 12:05		
Sensor Suite : P-SP			ID : PIT-AB-005		
Internal					
	Measured		Calibrated		
	Zero	Reference	Zero	Reference	Units
	32770.1	58920.2	0.0	1000.0	mV

Well File: rfp-hill-2-22a-3-stk-aug-22

Scale: 1:1200

Format: DIL1200

Segment: V1.D1.S5 MN

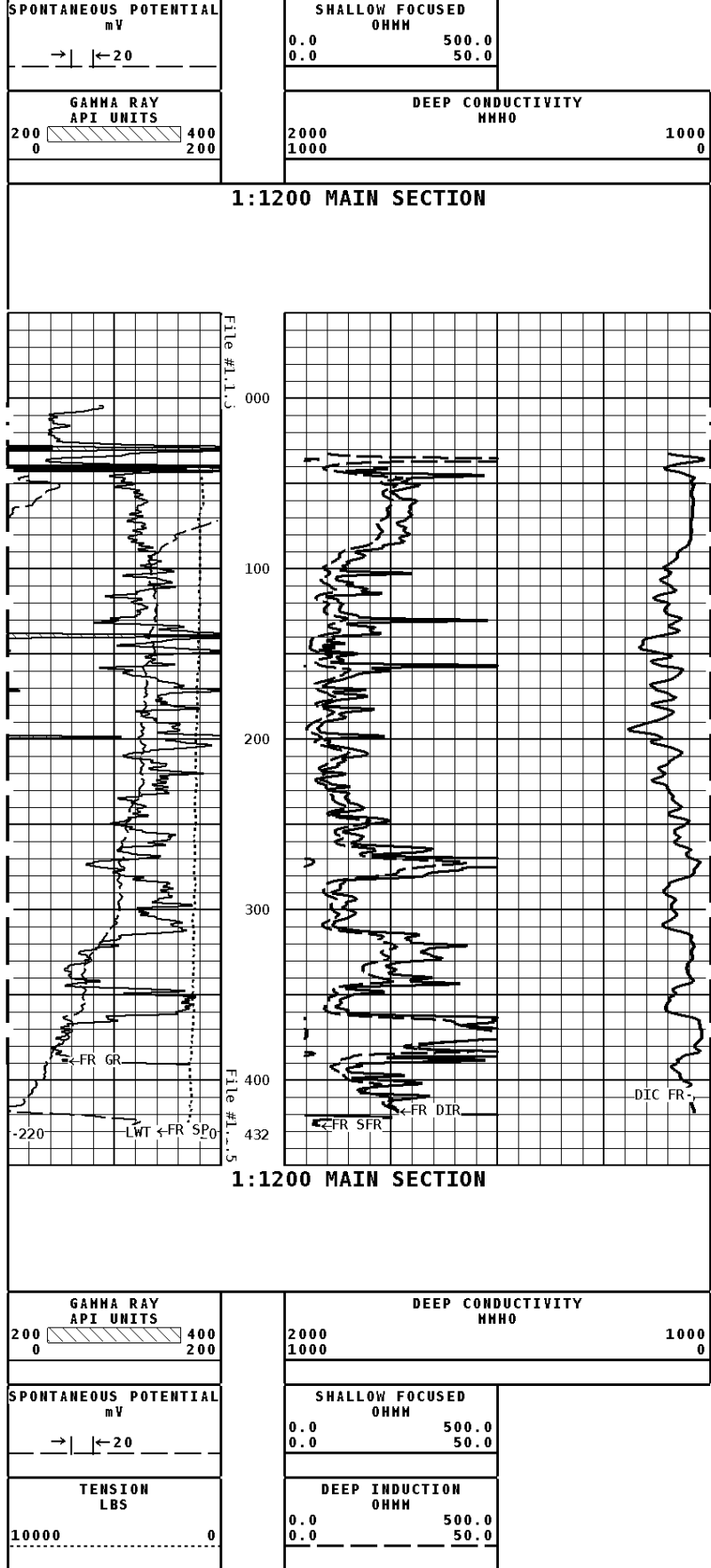
Acquired: 2014-08/22 09:46 3.3.0-12594

Reference: 0

Processed: 2014-08/22 10:05 3.3.0-12594

TENSION	
LBS	
10000	0

DEEP INDUCTION	
OHMM	
0.0	500.0
0.0	50.0



Tucker
ENERGY SERVICES

Company: RUNNING FOXES PETROLEUM INC.

Well: HILL #2-22A-3

Location: 495' FNL & 1970' FEL

Logged: 08-22-2014

K.B. Elev: 0.0 Ft

