

Tucker

WIRELINE SERVICES

DUAL INDUCTION RESISTIVITY LOG

Company RUNNING FOXES PETROLEUM Well WUNDERLY #11-36A-4 Field DEVON County BOURBON State KANSAS Country USA API No. 15-011-23813-00-00		File No : TUL-55538 Company : RUNNING FOXES PETROLEUM INC. Well : WUNDERLY #11-36A-4 Field : DEVON County : BOURBON State : KANSAS Country : USA API No : 15-011-23813-00-00	
Location : 2130' FSL & 2460' FEL SE NE NE SW		LSD :	Sect : 36 Twp : 24 Rge : 23
Permanent Datum:	GL	Elevations:	
Drilling Measured From:	GL	KB 0.00	Services:
Log Measured From:	GL	DF 0.00	CNT
Above Permanent Datum:	0.00 Ft	GL 868.00	LDT
Date	Aug 22 2011		
Run Number	1		
Depth--Driller	575.0	Ft	
Depth--Logger	573.0	Ft	
First Reading	552.0	Ft	
Last Reading	21.0	Ft	
Casing--Driller	20.0	Ft	
Casing--Logger	21.0	Ft	
Bit Size	6.750	In	
Casing Size	8.625	In	
Hole Fluid Type	FRESH/NATIVE		
Density	0.0	LBS/GAL	
Fluid Loss	0.0	CC	
PH/Viscosity	0.0	0.0 SEC	
Sample Source	MEASURED		
RMF@Measured Temp.	4.000	@ 80 F	
RMF@Measured Temp	3.000	@ 80 F	
RMF@Measured Temp.	4.600	@ 80 F	
Source RMF/RMC	CACULATED CACULATED		
RM@BHT	4.000	@ 80 F	
Time Circulation Stopped			
Max Recorded Temp.	80	F	
Equipment/Base	TRK123	TULSA	
Recorded By	T. MONTGOMERY		
Witnessed By	A. GREENE		

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)
6.750	575.00	8.625	40.00	20.00

Run Number	1	
Date	Aug 22 2011	
Date/Time On Bottom	Aug 22 2011 13:30	
Depth to Fluid	0.0 Ft	
Salinity	0.000 PPM	
RMF@BHT	0.000 @ 80 F	
RMC@BHT	0.000 @ 80 F	

Run Number 1

Comments

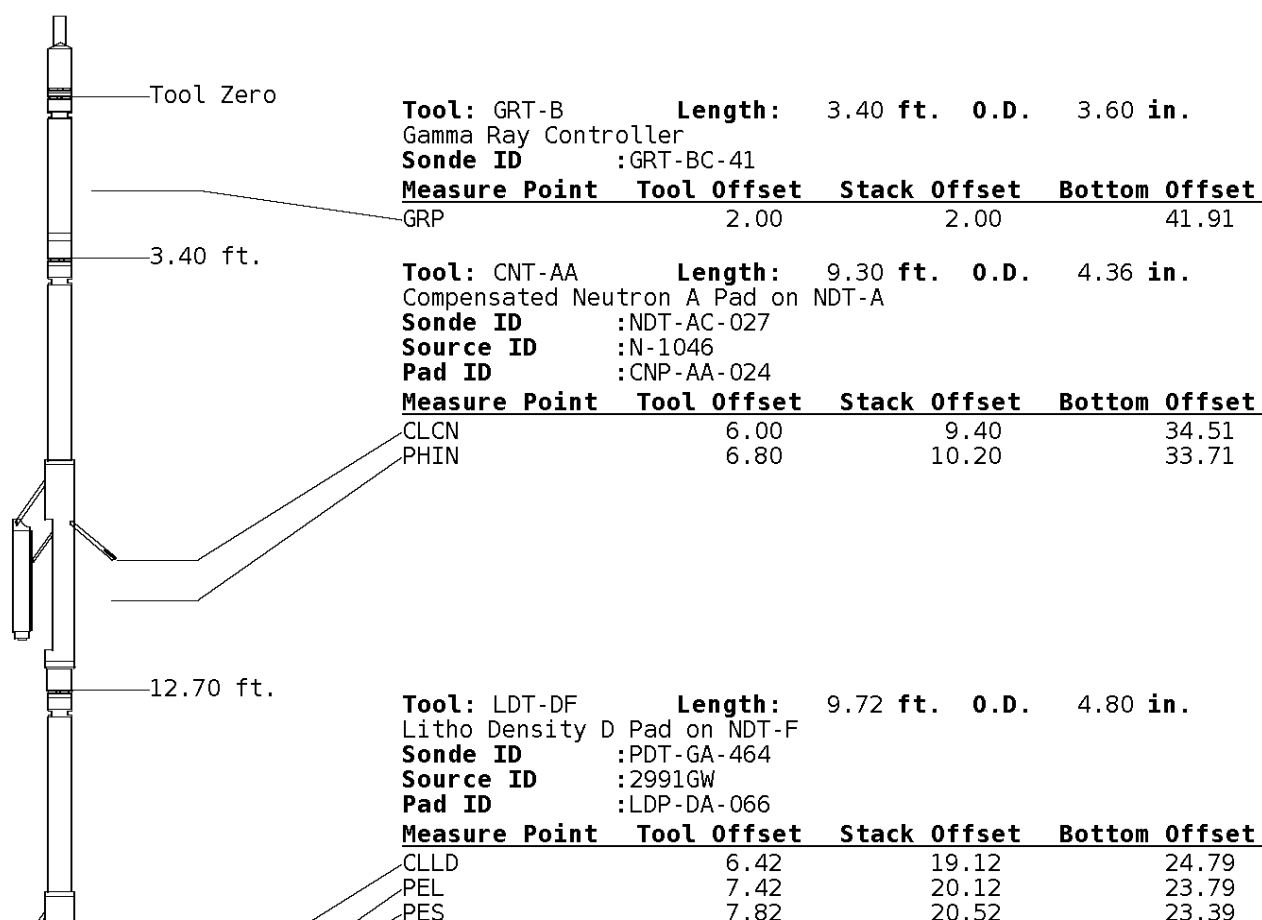
ALL PRESENTATIONS AS PER CUSTOMER REQUEST.
 GRT, CNT, LDT, AND PIT RUN IN COMBINATION.
 CALIPERS ORIENTED ON X-Y AXIS.
 2.71 G/CC USED TO CALCULATED POROSITY.
 ANNULAR HOLE VOLUME CALCULATED UISING 4.50" PRODUCTION CASING.

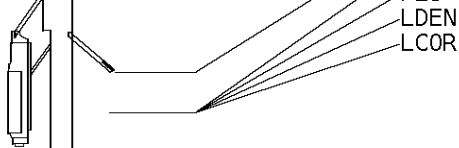
GRT: GRP.
 CNT: PHIN, CLCNIN.
 LDT: PORL, LCORN, PECLN, LDENN, PORLLS, CLLDIN.
 PIT: ILD, ILM, SPU, SFLAEC.

OPERATORS:
 J. THOMAS
 S. DAVIS

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-CA-069

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_11-36a-4_aug_22_stk

Scale: 1:600

Segment: V1.D1.S5 MN-RE

Acquired: 2011-08/22 13:34 3.2.0-9963

Reference: 0

Processed: 2011-08/22 14:21 3.2.0-9963

TENSION
LBS

10000

0

SPONTANEOUS POTENTIAL
mV

→ | ← 20

GAMMA RAY
API UNITS

200
0

400
200

SHALLOW FOCUSED RESISTIVITY
OHMM

0.0 500.0
0.0 50.0

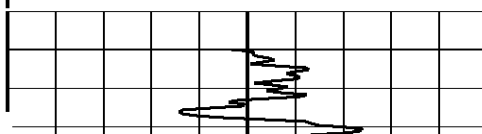
DEEP INDUCTION
OHMM

0.0 500.0
0.0 50.0

DEEP CONDUCTIVITY
MMHO

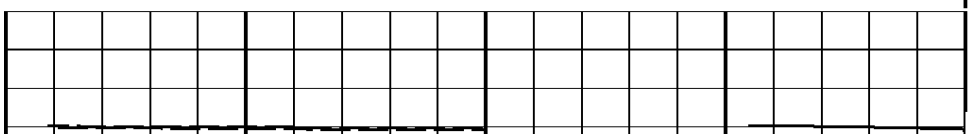
2000 1000 1000 0

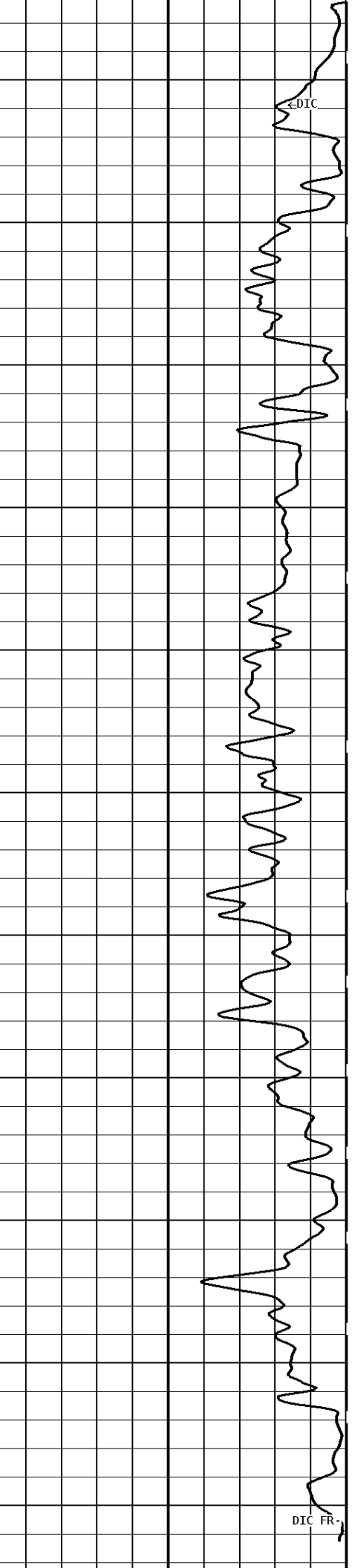
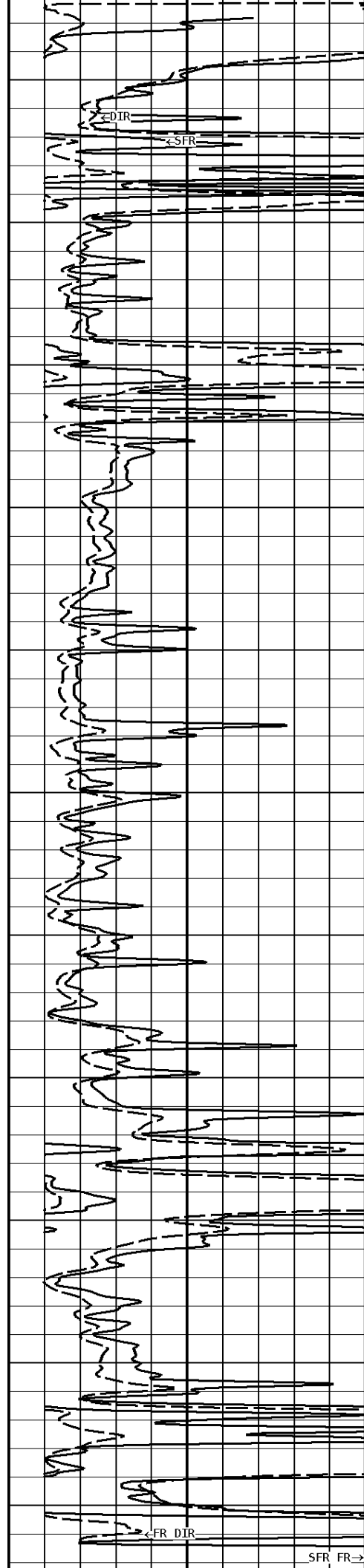
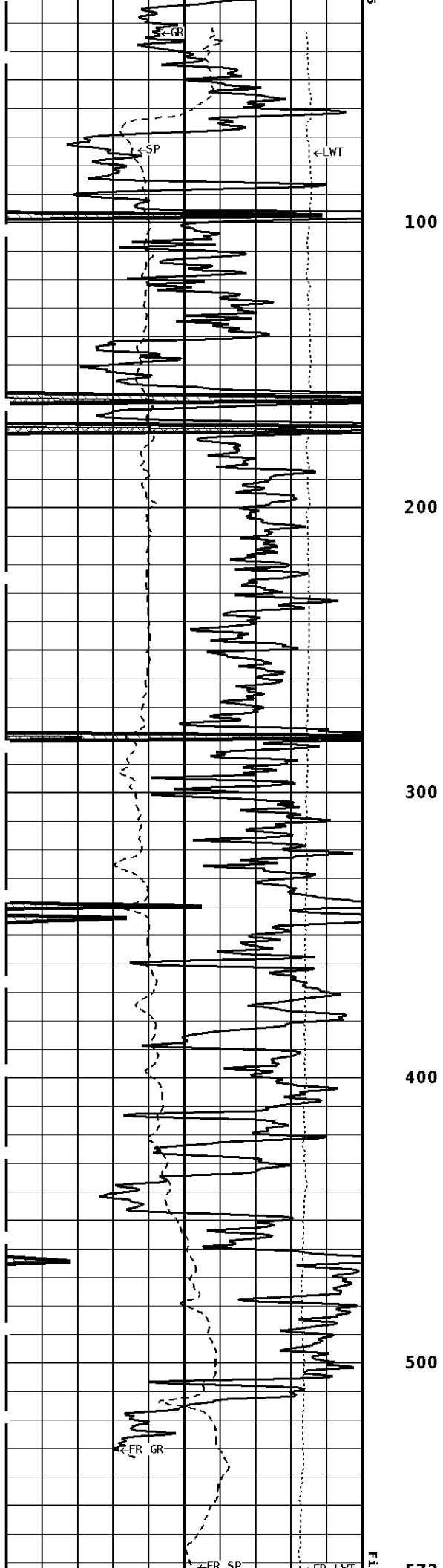
1:600 SECTION



File #1.1.1

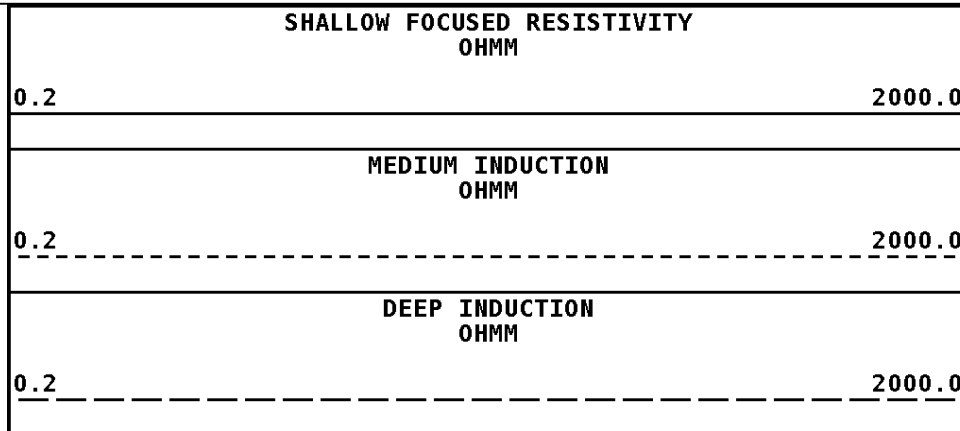
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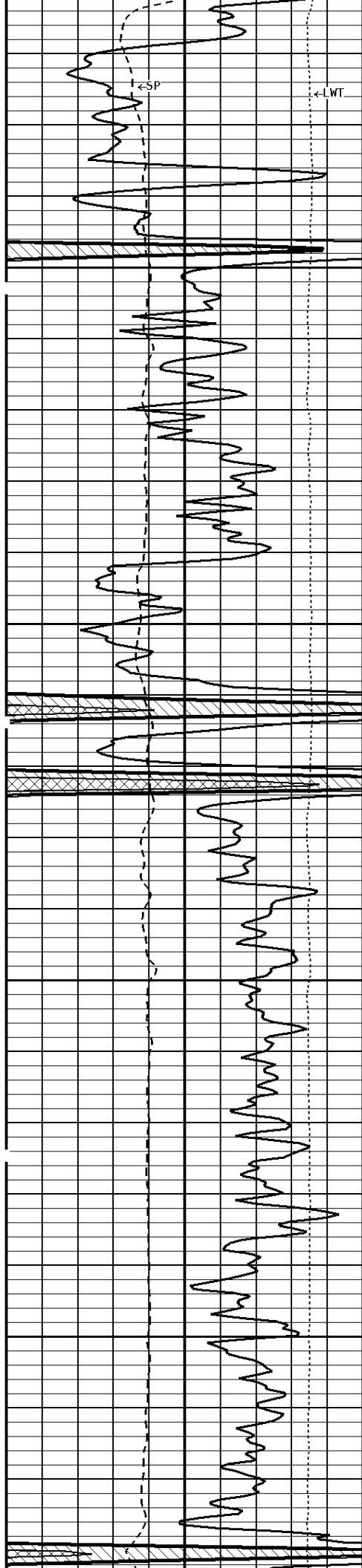




DEEP CONDUCTIVITY		
MMHO		
2000		1000
1000		0
DEEP INDUCTION		
OHMM		
0.0		500.0
0.0		50.0
SHALLOW FOCUSED RESISTIVITY		
OHMM		
0.0		500.0
0.0		50.0

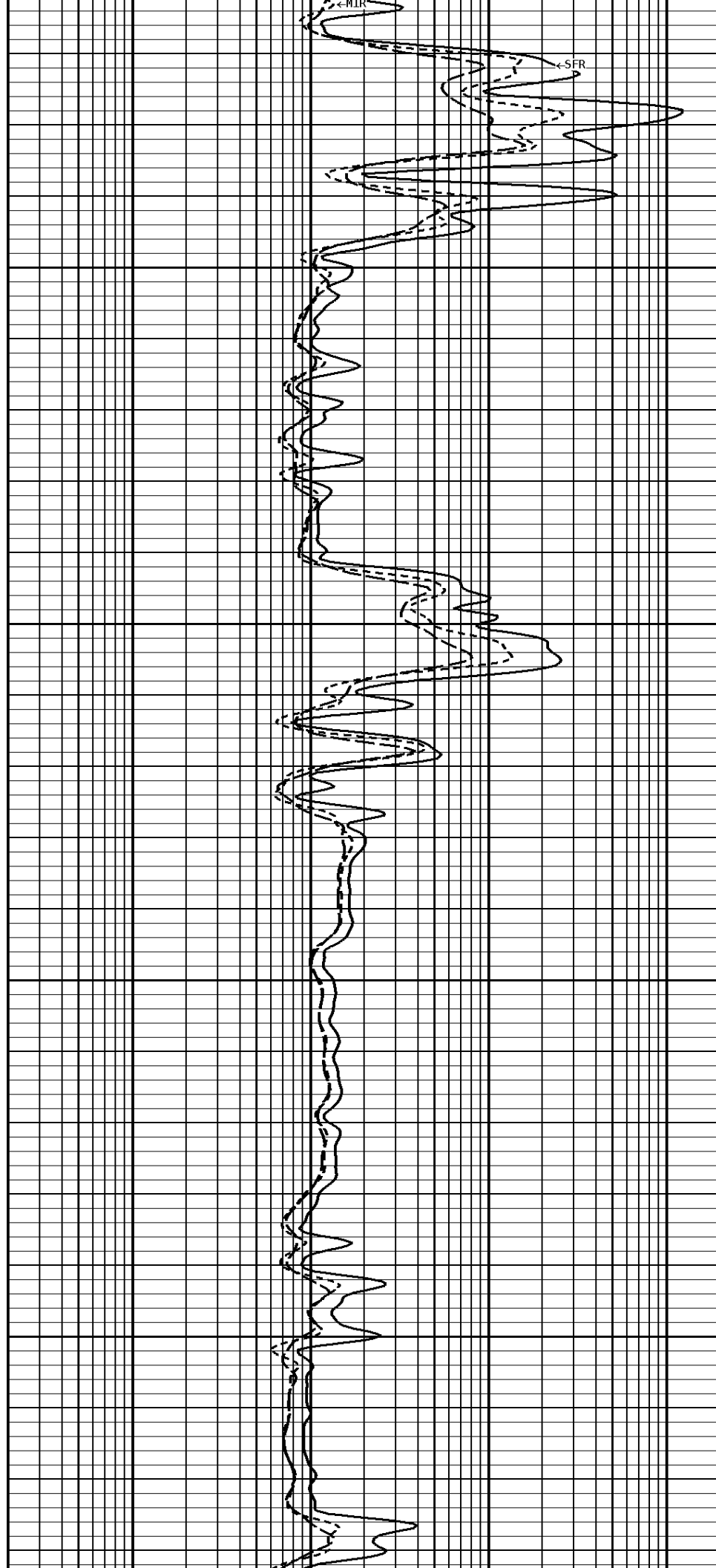
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Acquired:	2011-08/22 13:34 3.2.0-9963
Processed:	2011-08/22 14:21 3.2.0-9963

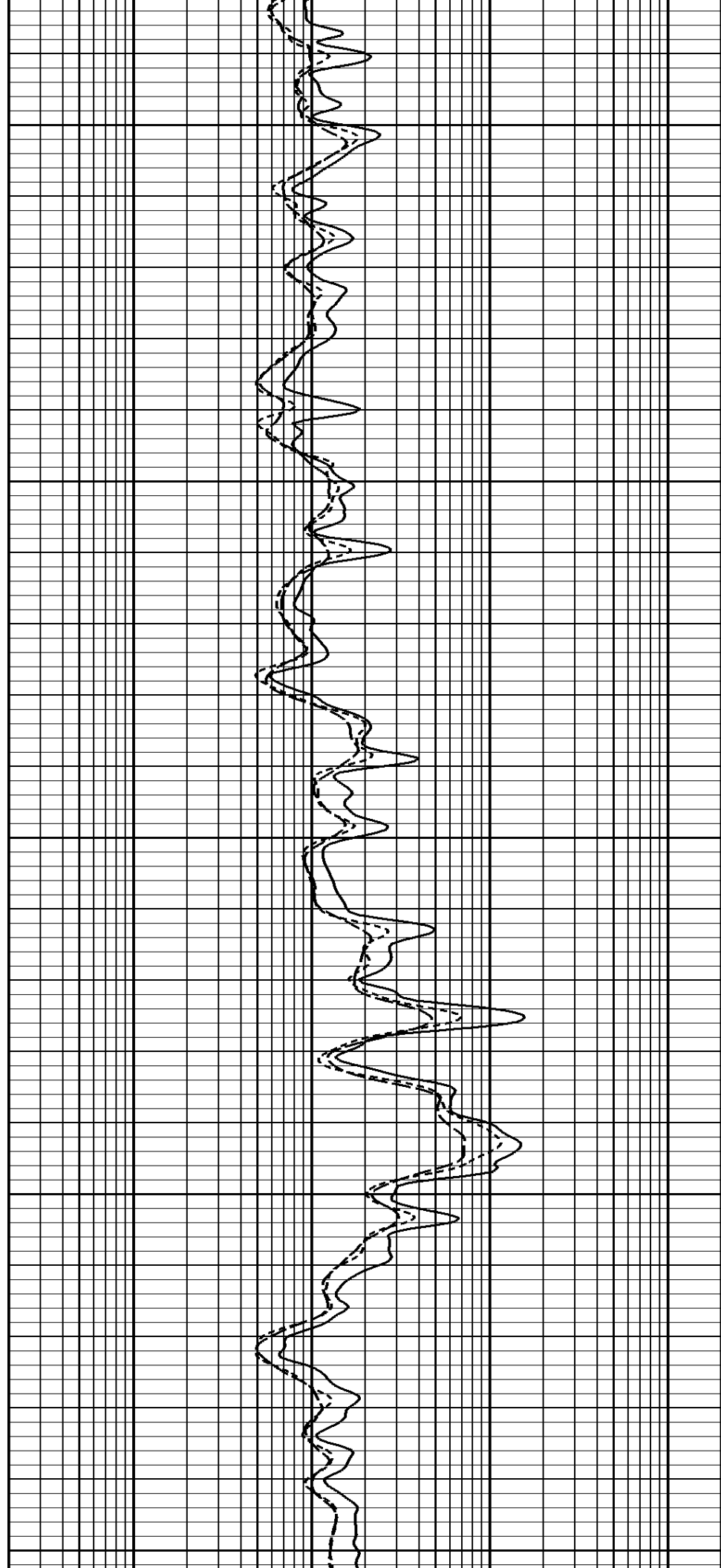
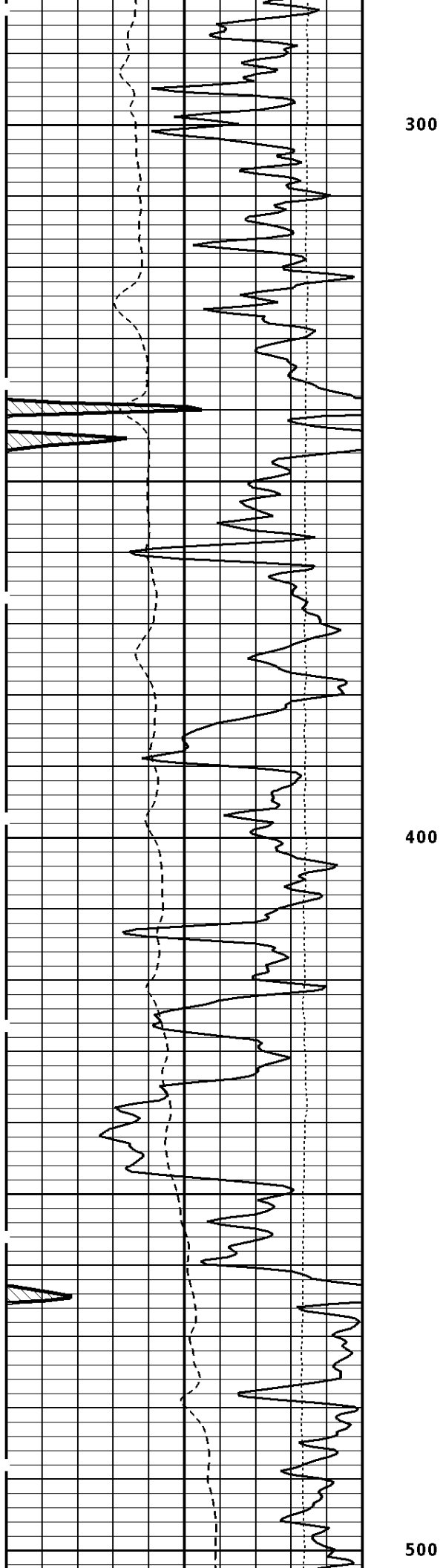


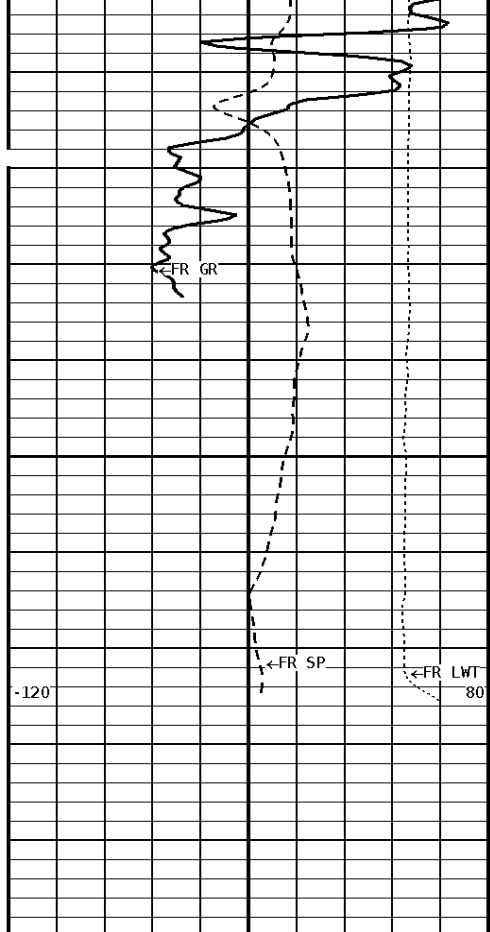


100

200

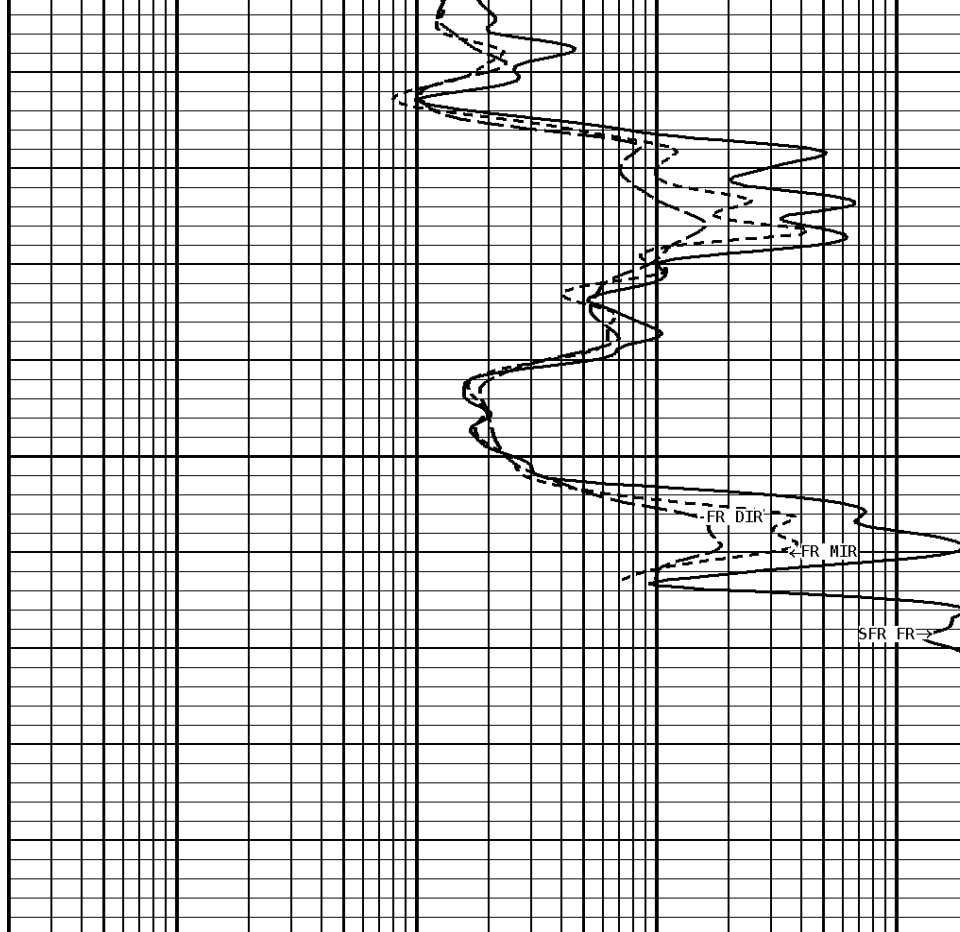




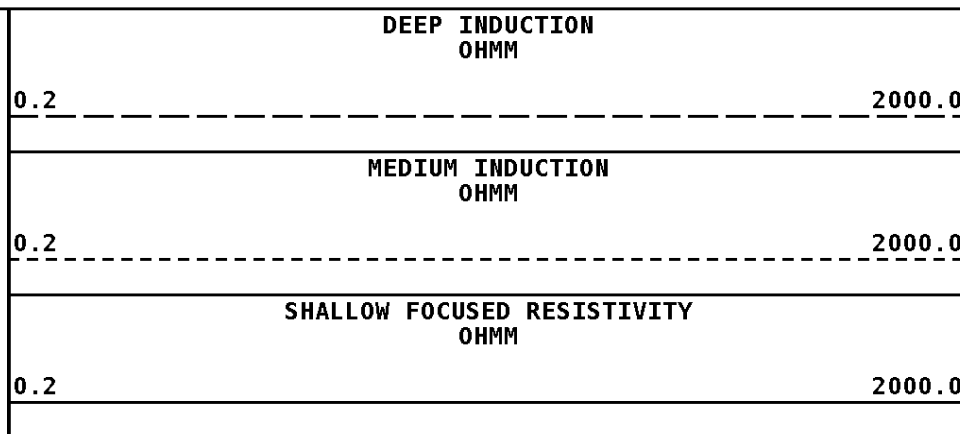
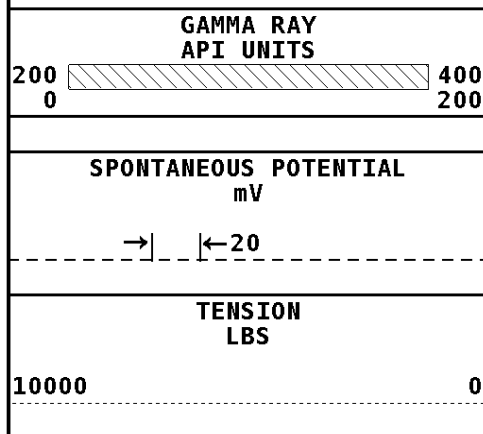


573

File #1.1.5



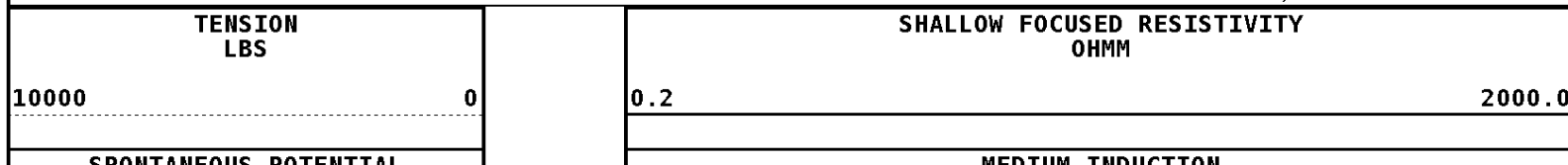
1:240 MAIN SECTION

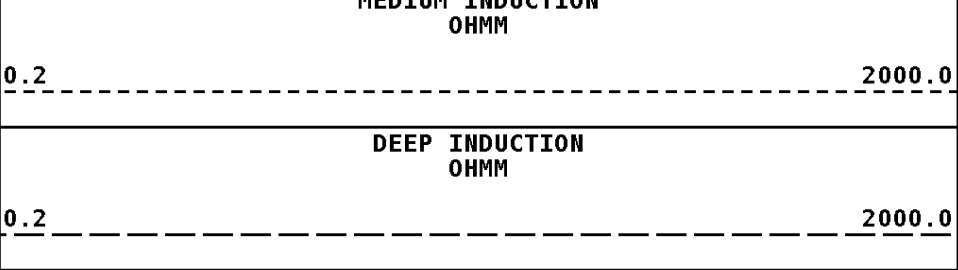
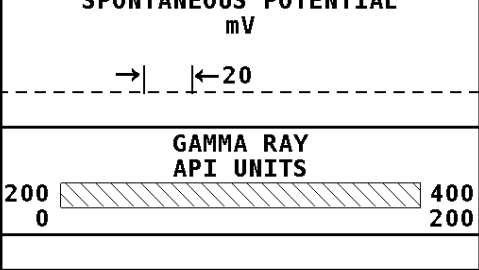


* Borehole Zone Factors *

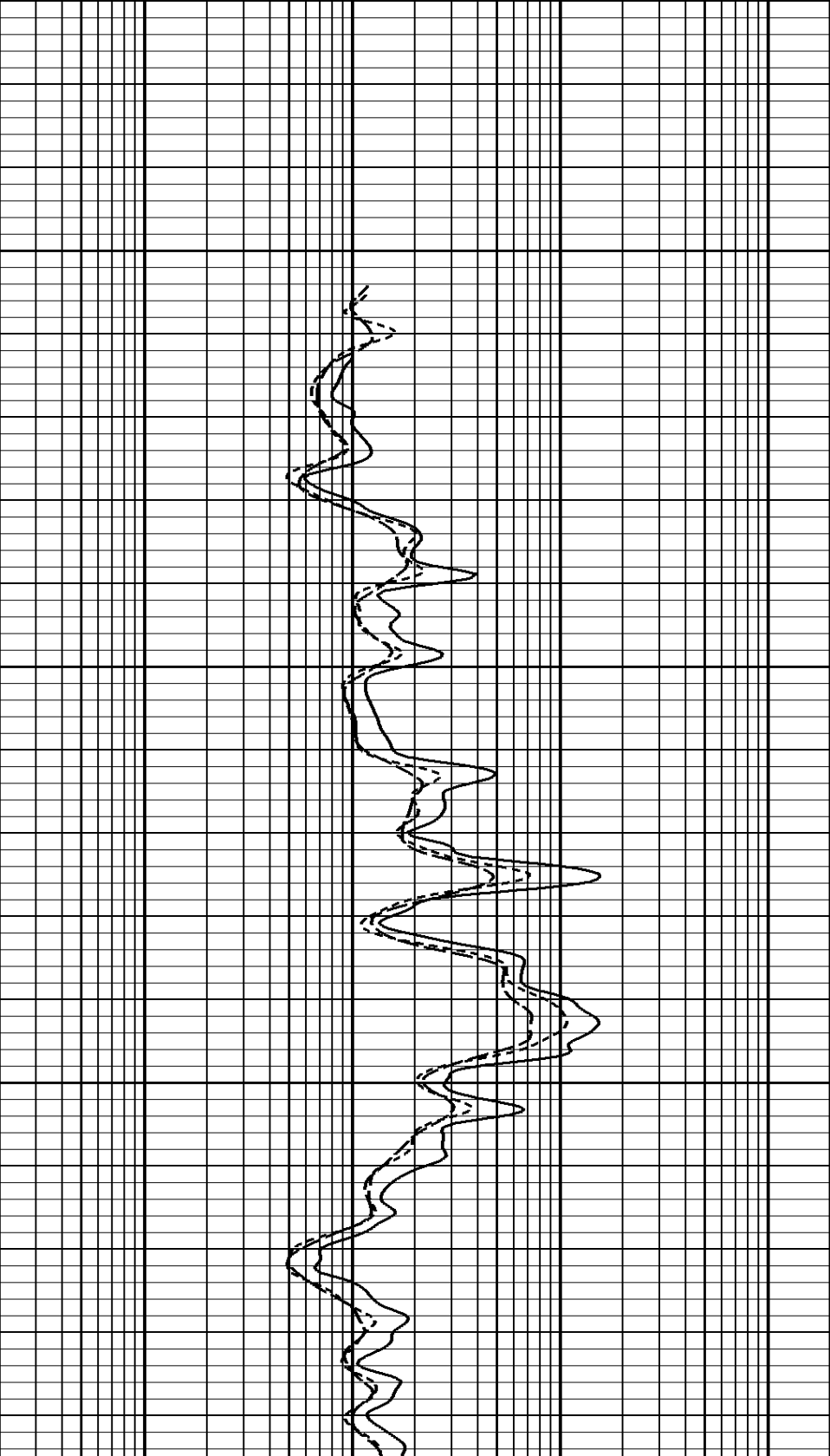
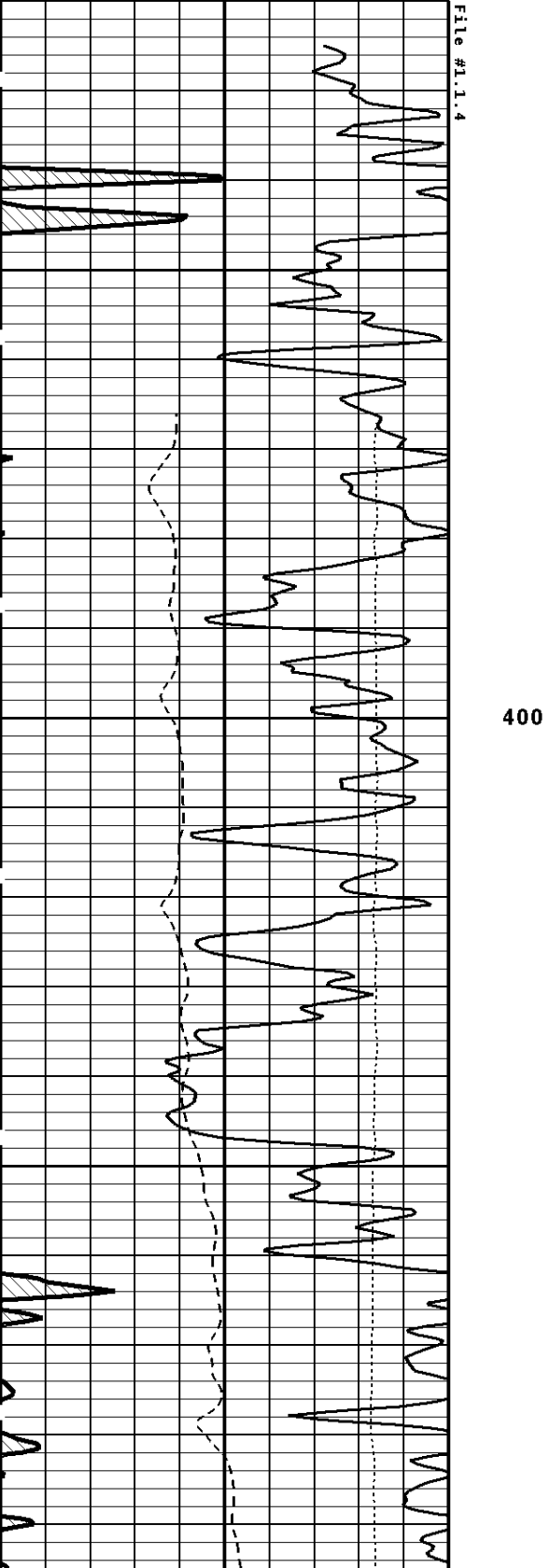
Zone 1 99999.0 to 0.0 Feet		
Drill Bit Size		6.750 in
BHT Depth		573.000 ft
Borehole Temperature		80.0 degF
Temperature Gradient		1.00 DFHF
Resistivity Of Mud		0.200 ohm/m
Resistivity Of Mud Temperature		80.00 degF

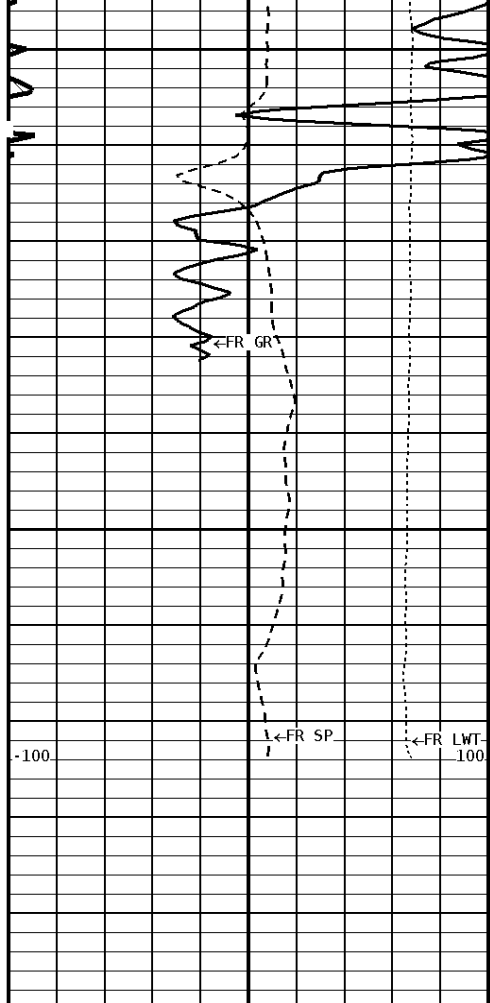
Well File: rfp 11-36a-4 aug 22_stk	Scale: 1:240
Segment: V1.D1.S4 RP-RE	Acquired: 2011-08/22 13:20 3.2.0-9963
Reference: 0	Processed: 2011-08/22 14:21 3.2.0-9963





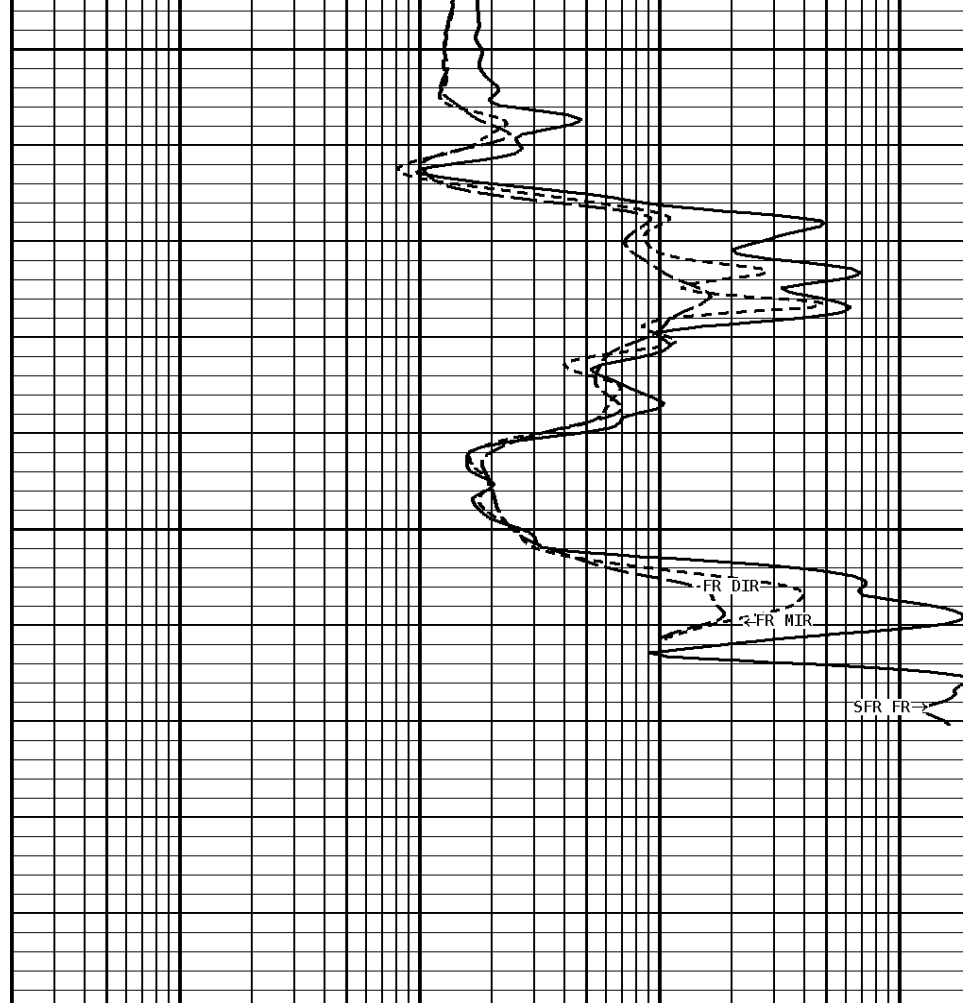
1:240 REPEAT SECTION



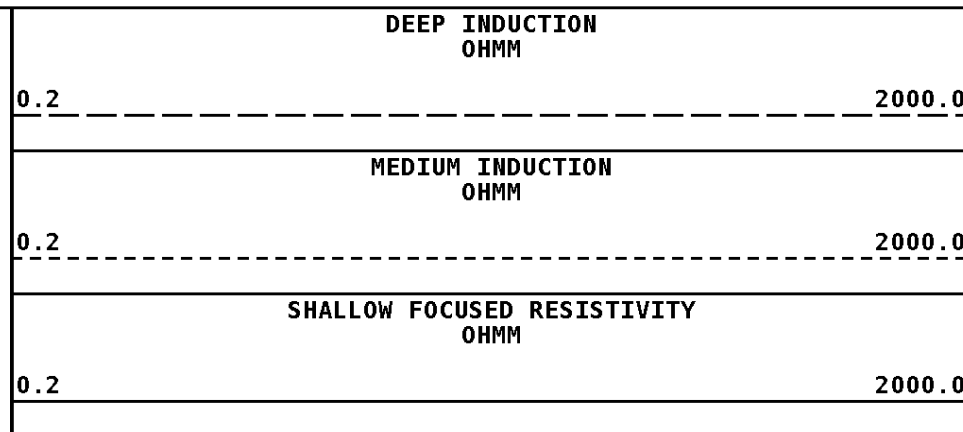
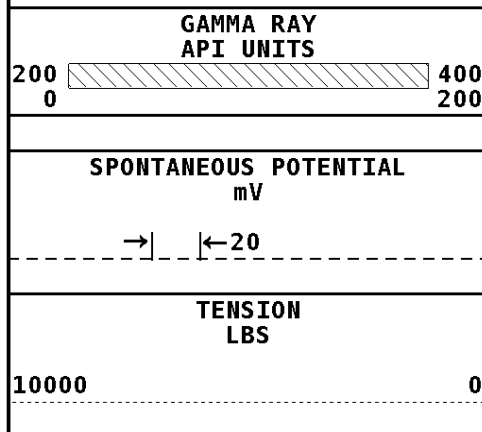


500

573



1:240 REPEAT SECTION



* Borehole Zone Factors *

Zone 1 99999.0 to 0.0 Feet		
Drill Bit Size	6.750	in
BHT Depth	573.000	ft
Borehole Temperature	80.0	degF
Temperature Gradient	1.00	DFHF
Resistivity Of Mud	0.200	ohm/m
Resistivity Of Mud Temperature	80.00	degF

* Calibration Summary *

Shop Calibration		
GRT-B		
Performed : 29-Apr-2010	Time : 11:02	
Sensor Suite : GR-GR5	ID : GRT-BC-41	

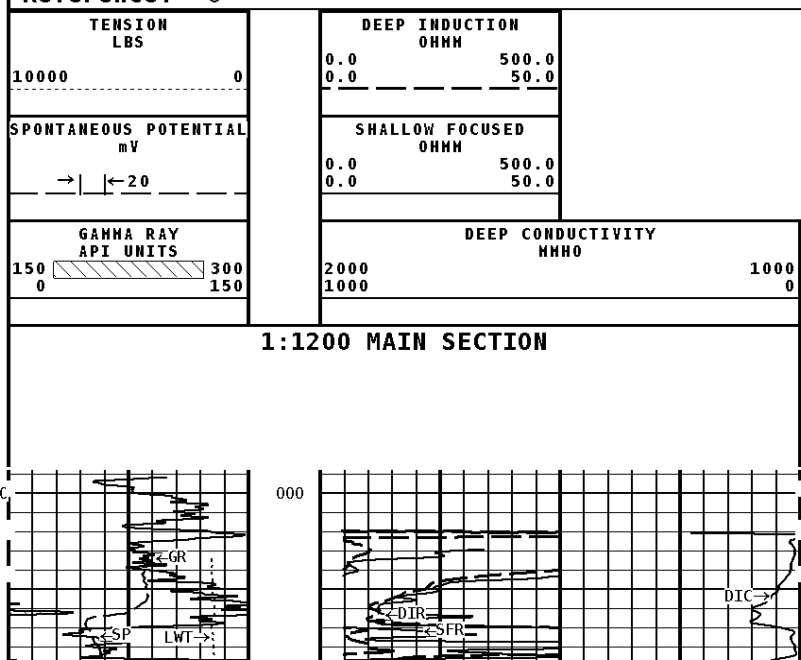
	Background	Measured Jig	Units	Calibrated Jig	Units
GR	46	346	CPS	175	GRAPI

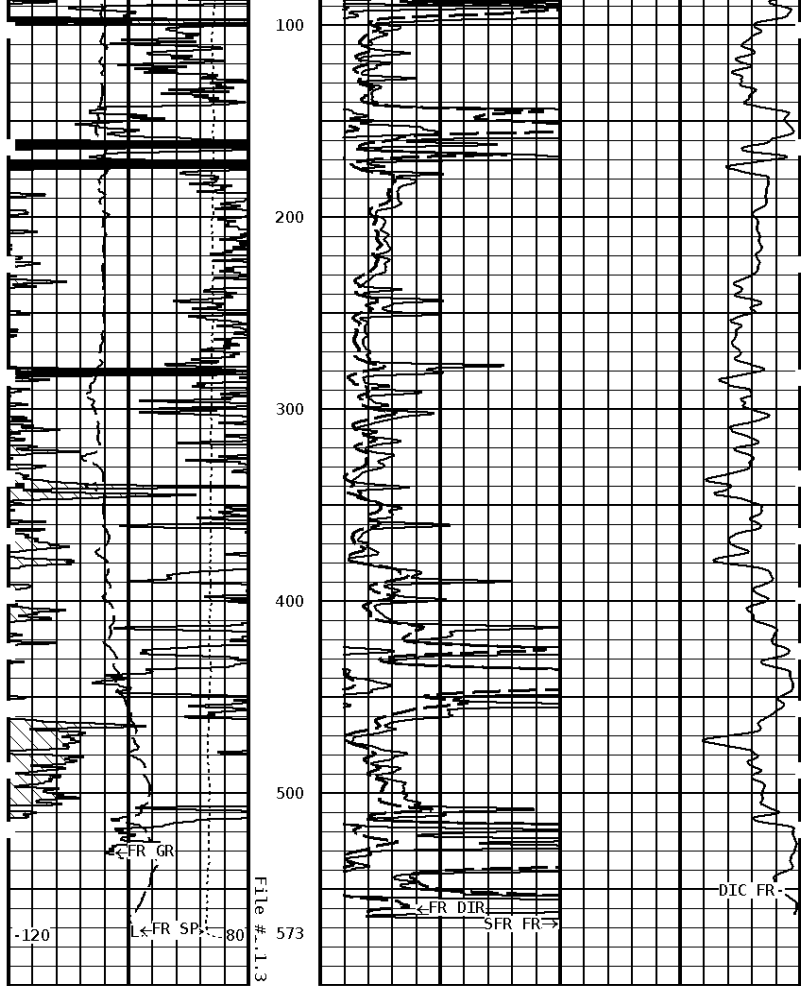
Shop Calibration PIT-CA					
Performed : 28-APR-2011			Time : 06:57		
Sensor Suite : P-IND-T			ID : PIT-CA-069		
Medium					
	Measured		Calibrated		Units
	R	X	R	X	
Air	130173	131162	-0.0	-0.0	MMHOS
Zero	131069	131068	42.3	-8.2	MMHOS
Reference	249132	248386	5042.3	4991.8	MMHOS
Loop	128928	218725	3679.1	3784.6	MMHOS
Sonde Error			0.1	-8.5	MMHOS
Cond			5042.3	4991.8	MMHOS
Deep					
	Measured		Calibrated		Units
	R	X	R	X	
Air	128071	132145	0.0	0.0	MMHOS
Zero	131066	131068	56.5	-22.2	MMHOS
Reference	234699	233671	2056.5	1977.8	MMHOS
Loop	127048	223014	1751.5	1791.0	MMHOS
Sonde Error			-2.6	0.1	MMHOS
Cond			2056.5	1977.8	MMHOS
Temperature					
	Measured		Calibrated		Units
	Low	High	Low	High	
	16980.0	56920.0	70.0	350.0	DEGF

Performed : 28-Apr-2011			Time : 12:54		
Sensor Suite : SFL			ID : PIT-CA-069		
Internal					
	Measured		Calibrated		Units
	Zero	Reference	Zero	Reference	
Im	32786.2	49071.6	0.0	7028.0	uA
Ib	32768.9	49102.0	0.0	1750.0	mA
MOM1	32796.9	56691.2	0.0	175.0	mV
Equivalent SFL				43.97	OHMM

Performed : 28-Apr-2011			Time : 12:57		
Sensor Suite : P-SP			ID : PIT-CA-069		
Internal					
	Measured		Calibrated		Units
	Zero	Reference	Zero	Reference	
	32768.3	58943.9	0.0	1000.0	mV

Well File: rfp_11-36a-4_aug_22_stk	Scale: 1:1200
Segment: V1.D1.S3 MN	Acquired: 2011-08/22 13:34 3.2.0-9963
Reference: 0	Processed: 2011-08/22 13:34 3.2.0-9963





1:1200 MAIN SECTION

