

Tucker
WIRELINE SERVICES

**DUAL INDUCTION
RESISTIVITY LOG**

Company RUNNING FOXES PETROLEUM,
Well WUNDERLY #11-36A-1
Field DEVON
County BOURBON
State KANSAS
Country USA
API No. 15-011-23822-00-00

File No : TUL-55903
Company : RUNNING FOXES PETROLEUM, INC.
Well : WUNDERLY #11-36A-1
Field : DEVON
County : BOURBON
State : KANSAS
Country : USA
API No : 15-011-23822-00-00

Location :
2460' FSL & 2460' FWL
NE NE NE SW

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

Permanent Datum: GL Elevations: Services:
Drilling Measured From: GL KB 0.00 CNT
Log Measured From: GL DF 0.00 LDT
Above Permanent Datum: 0.00 Ft GL 864.00 PIT

Date	Aug 15 2011		
Run Number	1		
Depth--Driller	562.0	Ft	
Depth--Logger	560.0	Ft	
First Reading	559.0	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	LBS/GAL	
Fluid Loss	0.0	CC	
PH/Viscosity	0.0	0.0 SEC	
Sample Source	MEASURED		
RM@Measured Temp.	4.000	@ 80 F	
RMF@Measured Temp	3.400	@ 80 F	
RMC@Measured Temp.	4.600	@ 80 F	
Source RMF/RMC	CALCULATED	CALCULATED	
RM@BHT	4.000	@ 80 F	
Time Circulation Stopped			
Max Recorded Temp.	80	F	
Equipment/Base	TRK123	TULSA	
Recorded By	R. FRANKLIN		
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	562.00	8.625	24.00	20.00

Run Number	1		
Date	Aug 15 2011		
Date/Time On Bottom	Aug 15 2011 12:30		
Depth to Fluid	0.0 Ft		
Salinity	0.000 PPM		
RMF@BHT	3.400 @ 80 F		
RMC@BHT	4.600 @ 80 F		

Run Number 1

Comments

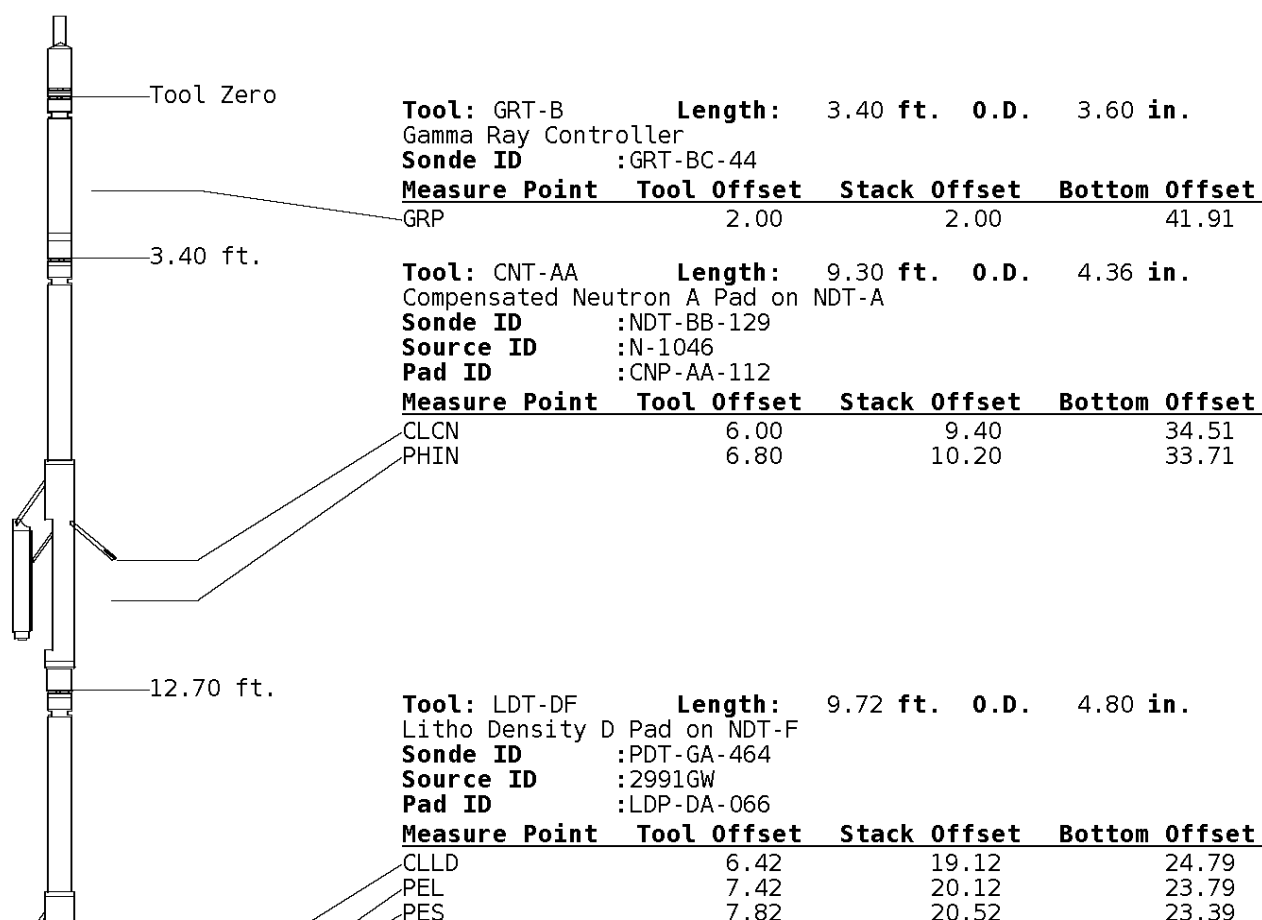
ALL PRESENTATIONS AS PER CUSTOMER REQUEST.
 GRT, CNT, LDT, AND PIT RUN IN COMBINATION.
 CALIPERS ORIENTED ON X-Y AXIS.
 2.71 G/CC USED TO CALCULATED POROSITY.
 ANNULAR HOLE VOLUME CALCULATED UISING 4.50" PRODUCTION CASING.

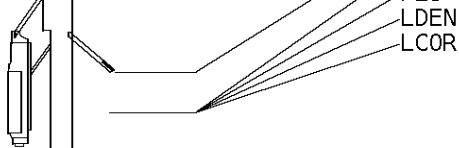
GRT: GRP.
 CNT: PHIN, CLCNIN.
 LDT: PORL, LCORN, PECLN, LDENN, PORLLS, CLLDIN.
 PIT: ILD, ILM, SPU, SFLAEC.

OPERATORS:
 T. HOBBS
 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.
Sonde ID :PIT-CA-069
 Phased Dual Induction w/ RM & D

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_wun_11-36a-1_aug_15_stk

Scale: 1:600

Segment: V1.D1.S6 MAIN

Acquired: 2011-08/15 12:31 3.2.0-9963

Reference: 0

Processed: 2011-08/15 12:56 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

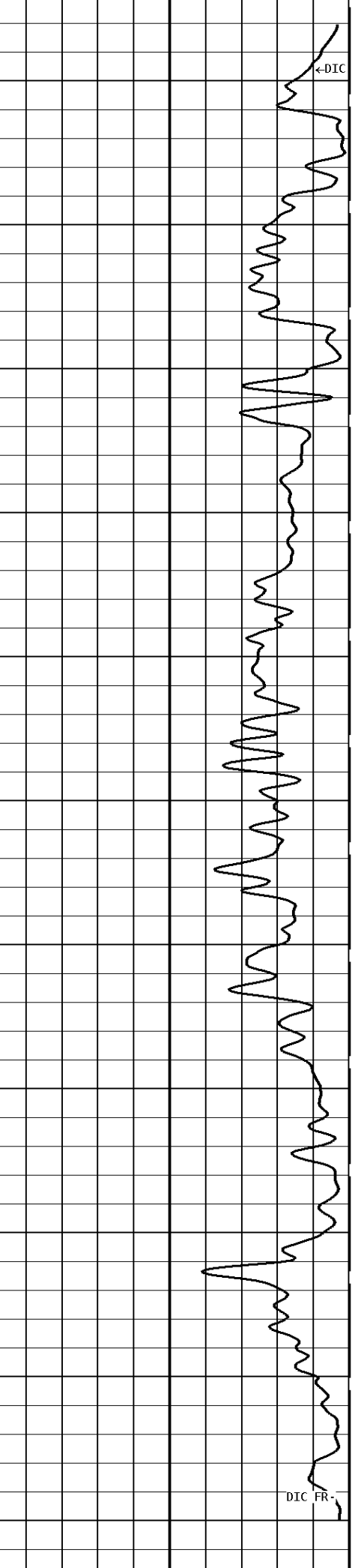
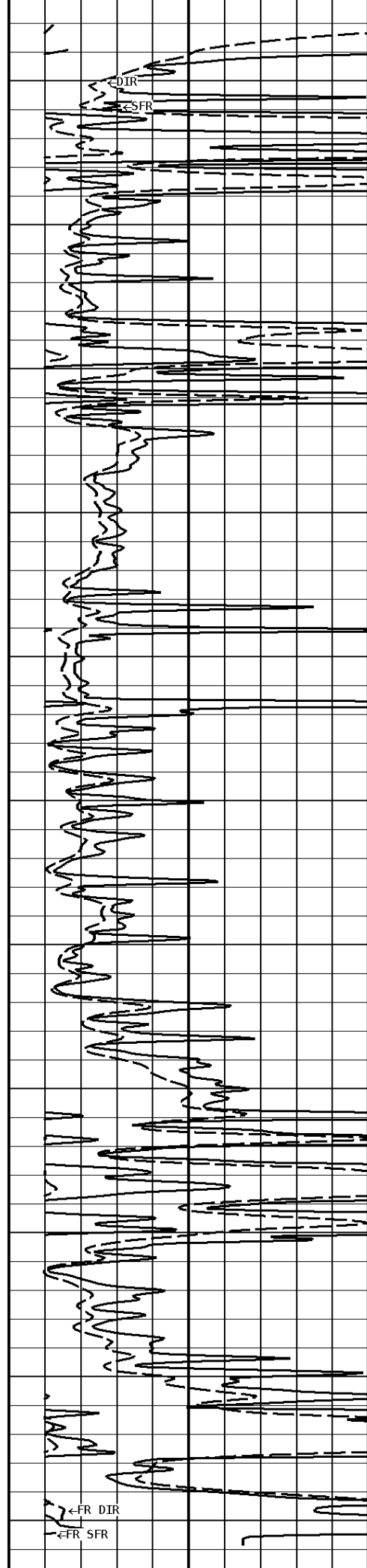
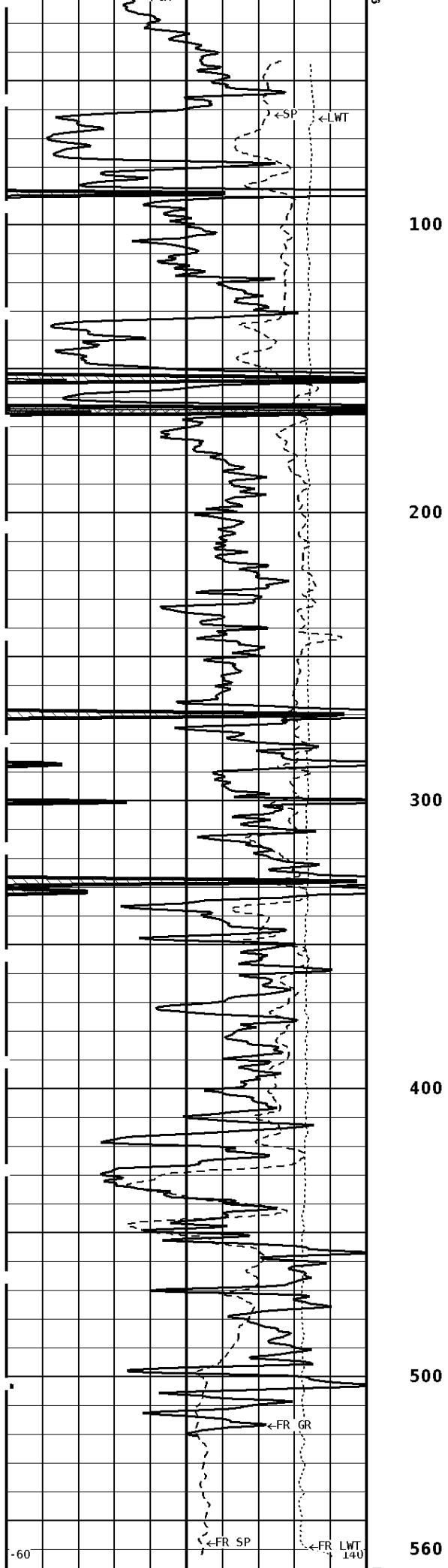
2000 ————— 1000
1000 ————— 0

1:600 SECTION

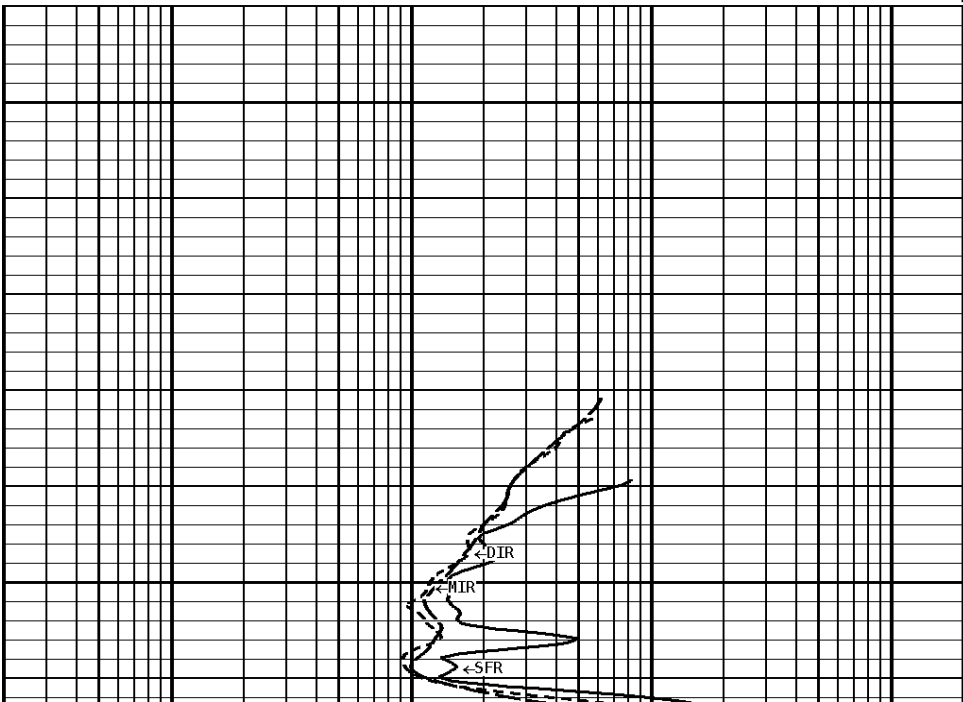
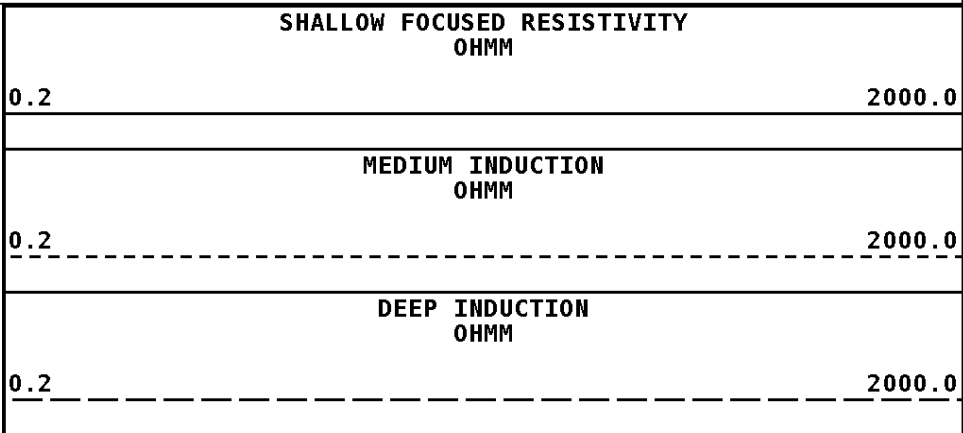
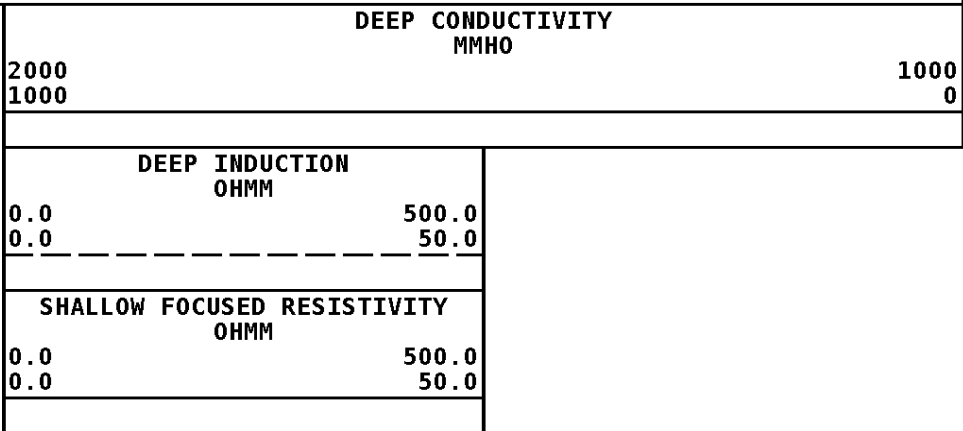


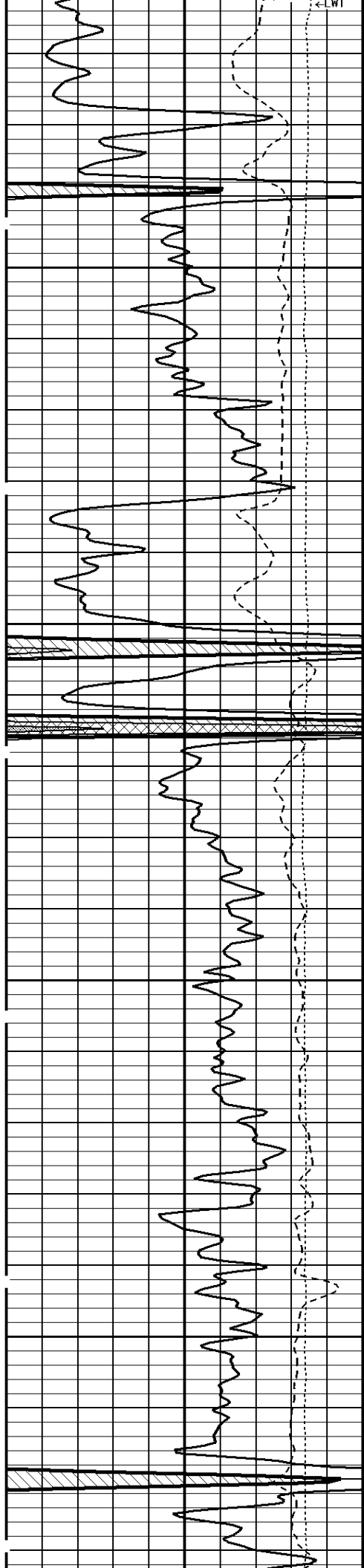
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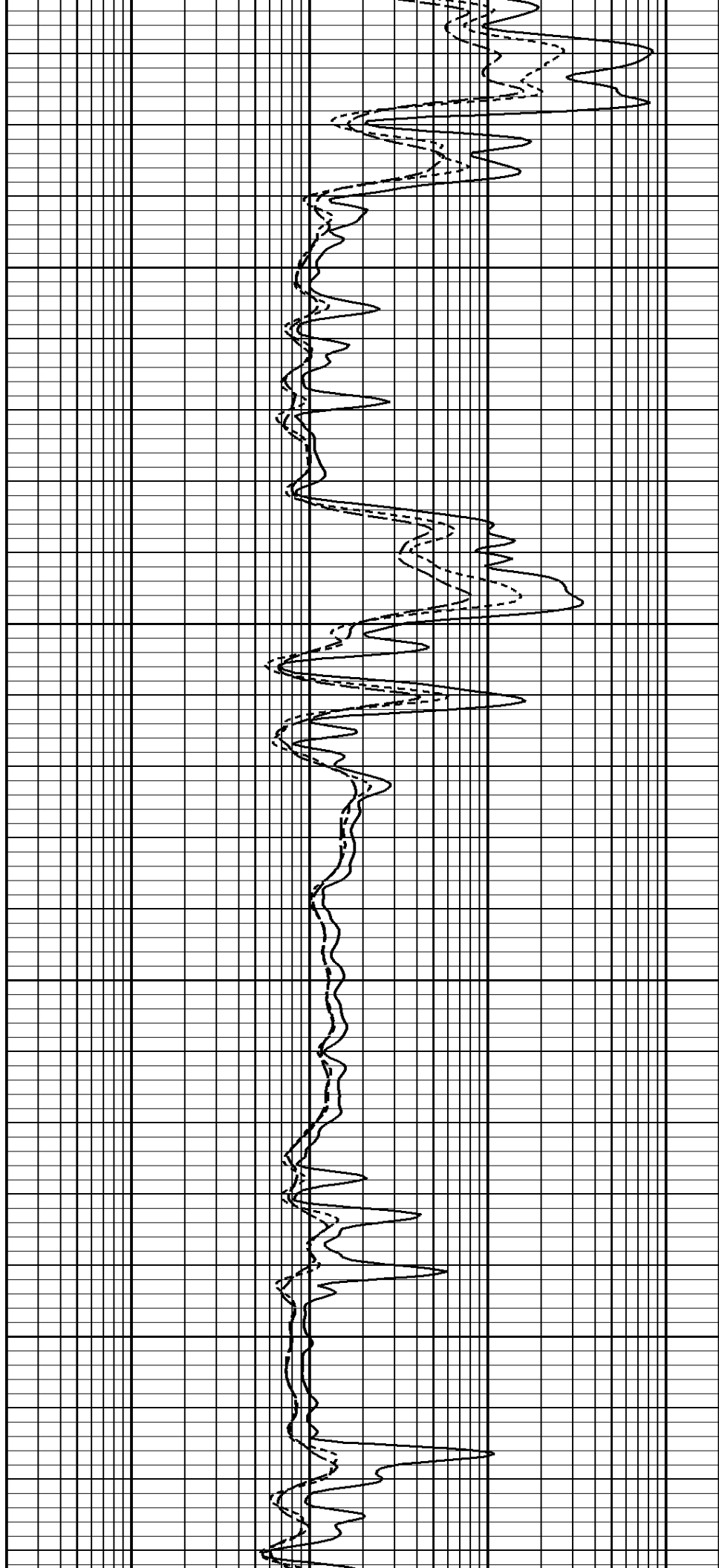
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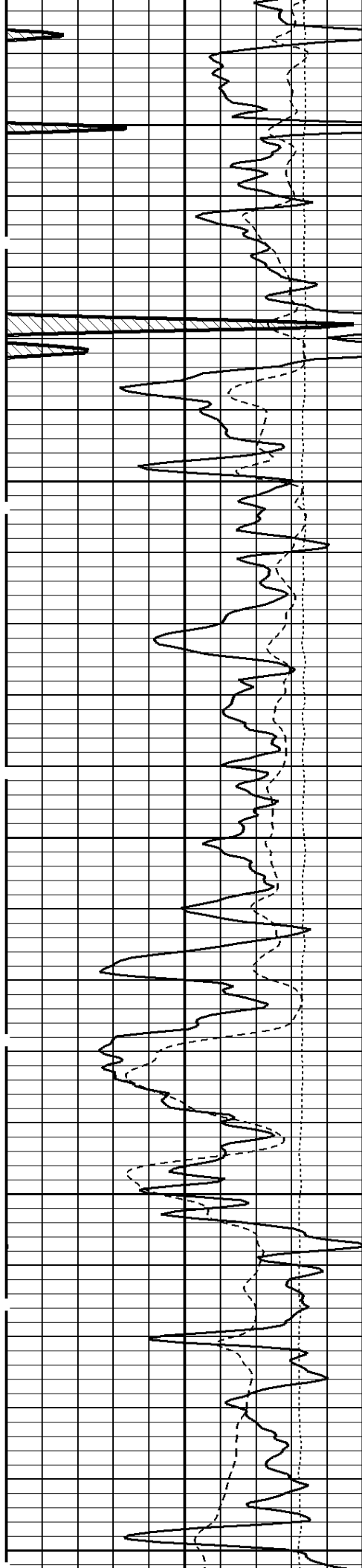




100

200

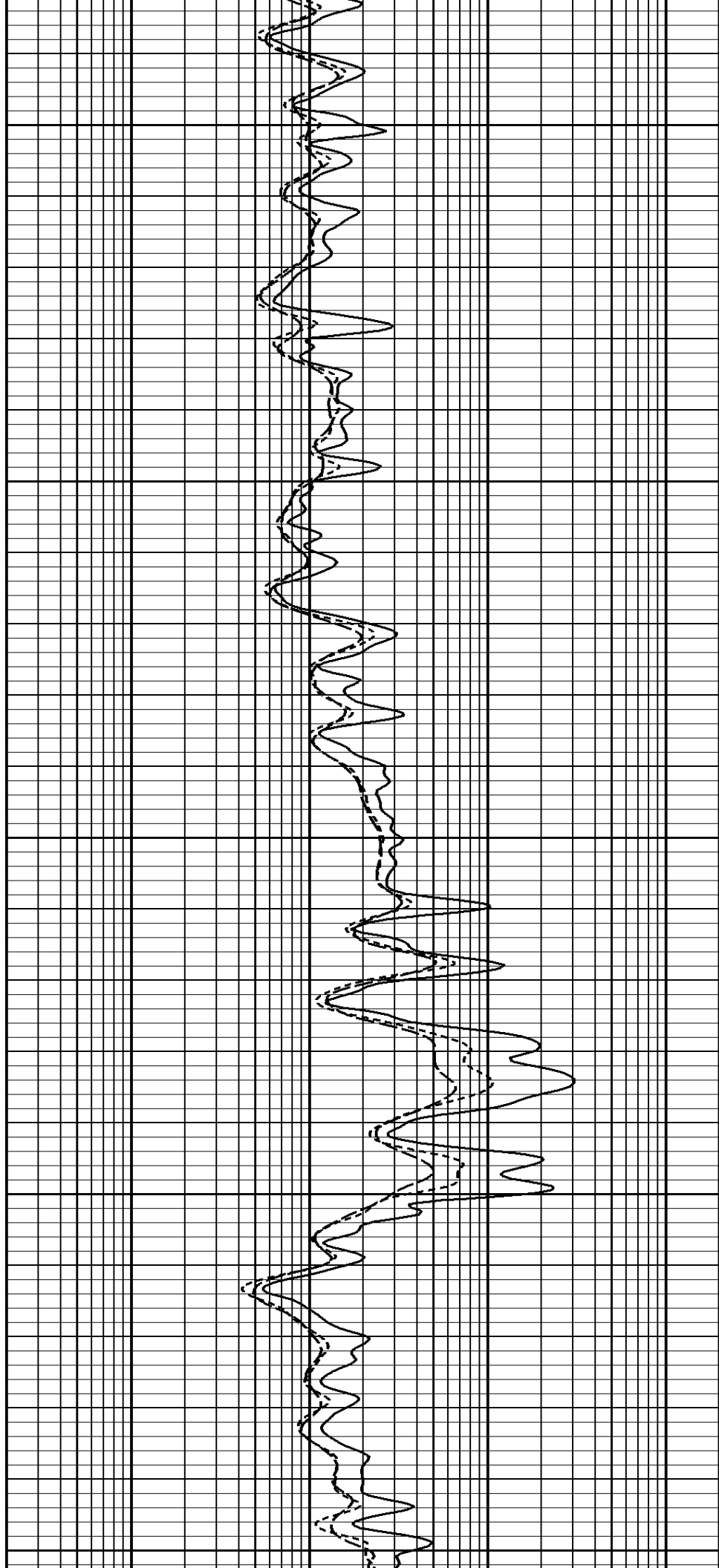


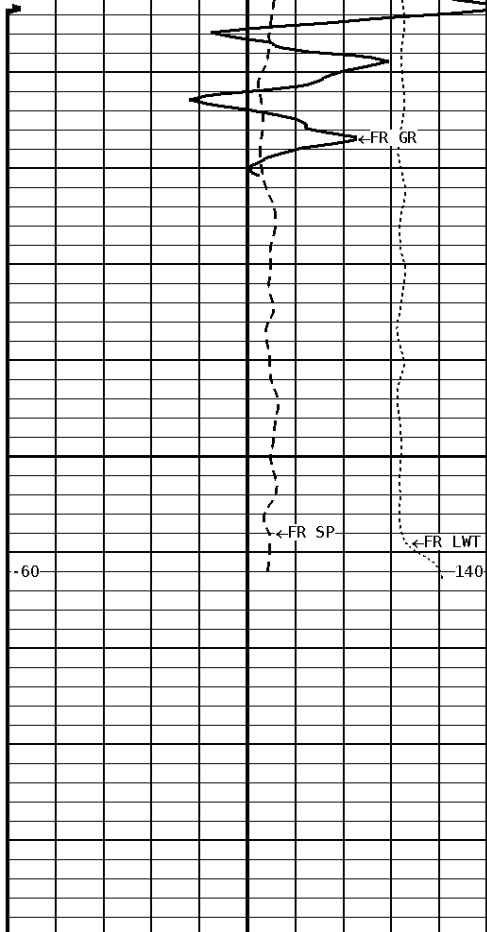


300

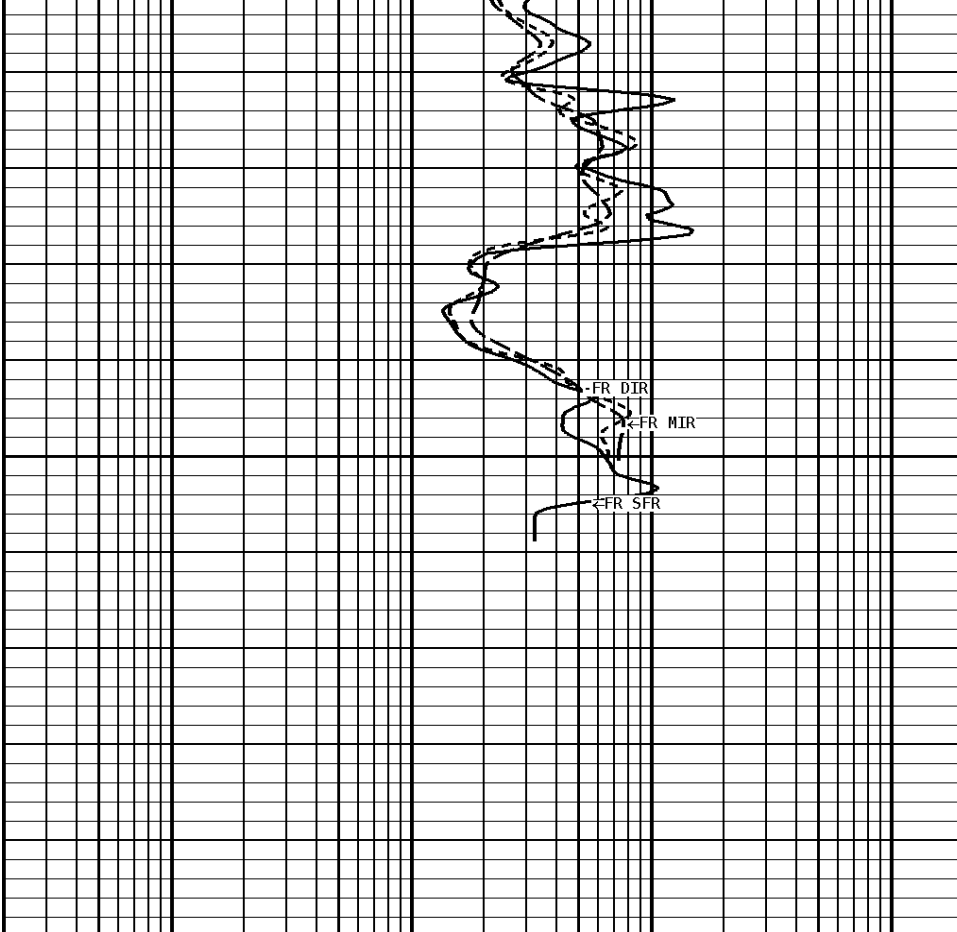
400

500

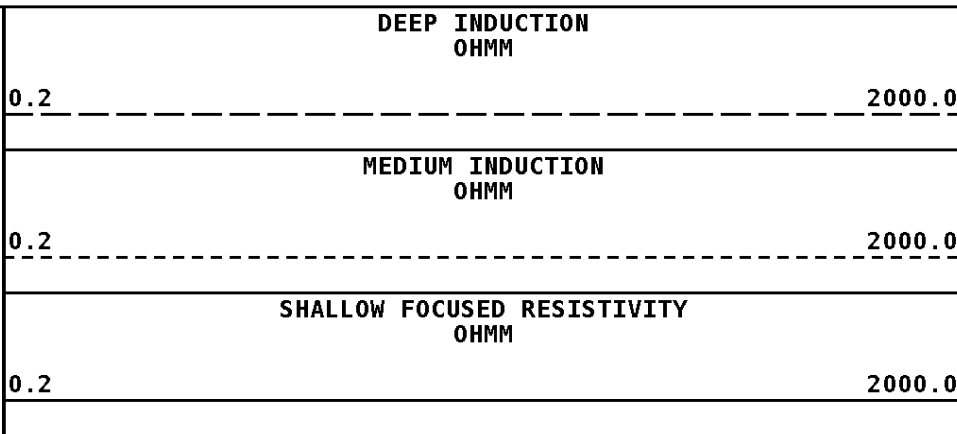
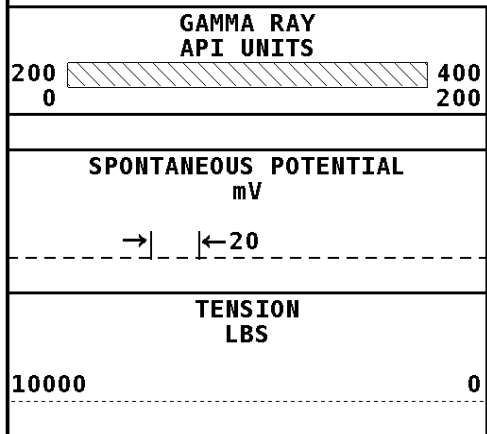




560



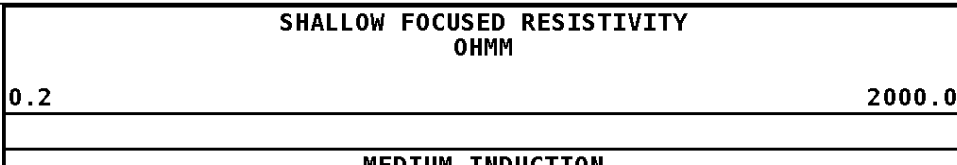
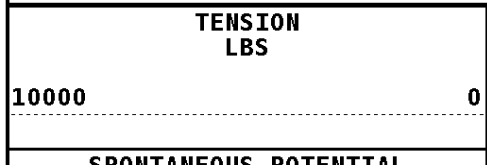
1:240 MAIN SECTION

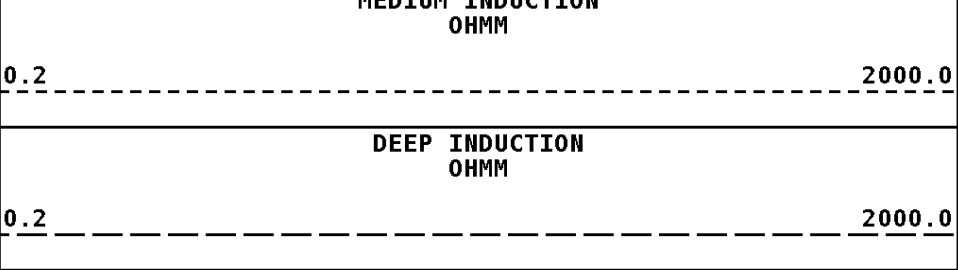
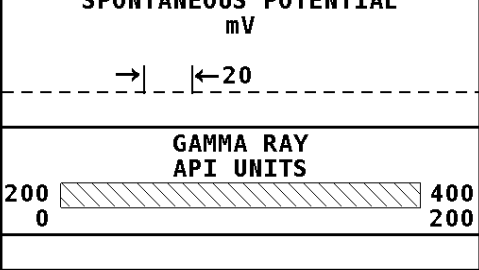


* Borehole Zone Factors *

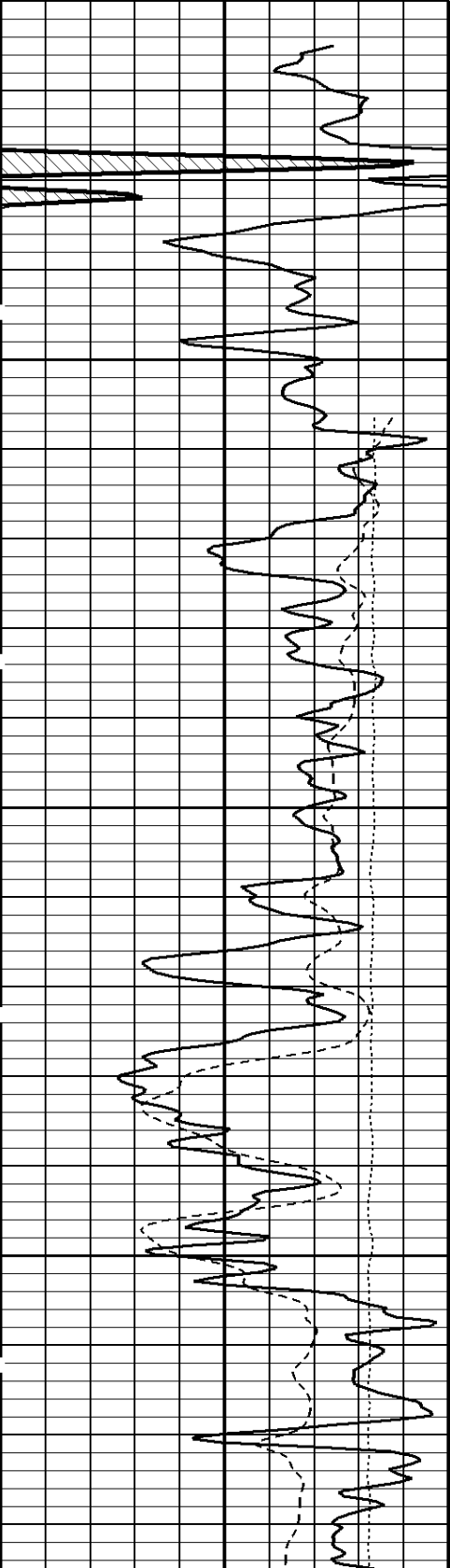
Zone 1 99999.0 to 0.0 Feet		
Drill Bit Size	6.750	in
BHT Depth	560.000	ft
Borehole Temperature	80.0	degF
Temperature Gradient	1.00	DFHF
Resistivity Of Mud	4.000	ohm/m
Resistivity Of Mud Temperature	80.00	degF

Well File: run wun 11-36a-1_aug_15_stk	Scale: 1:240
Segment: V1.D1.S5 REPEAT	Acquired: 2011-08/15 12:20 3.2.0-9963
Reference: 0	Processed: 2011-08/15 12:56 3.2.0-9963

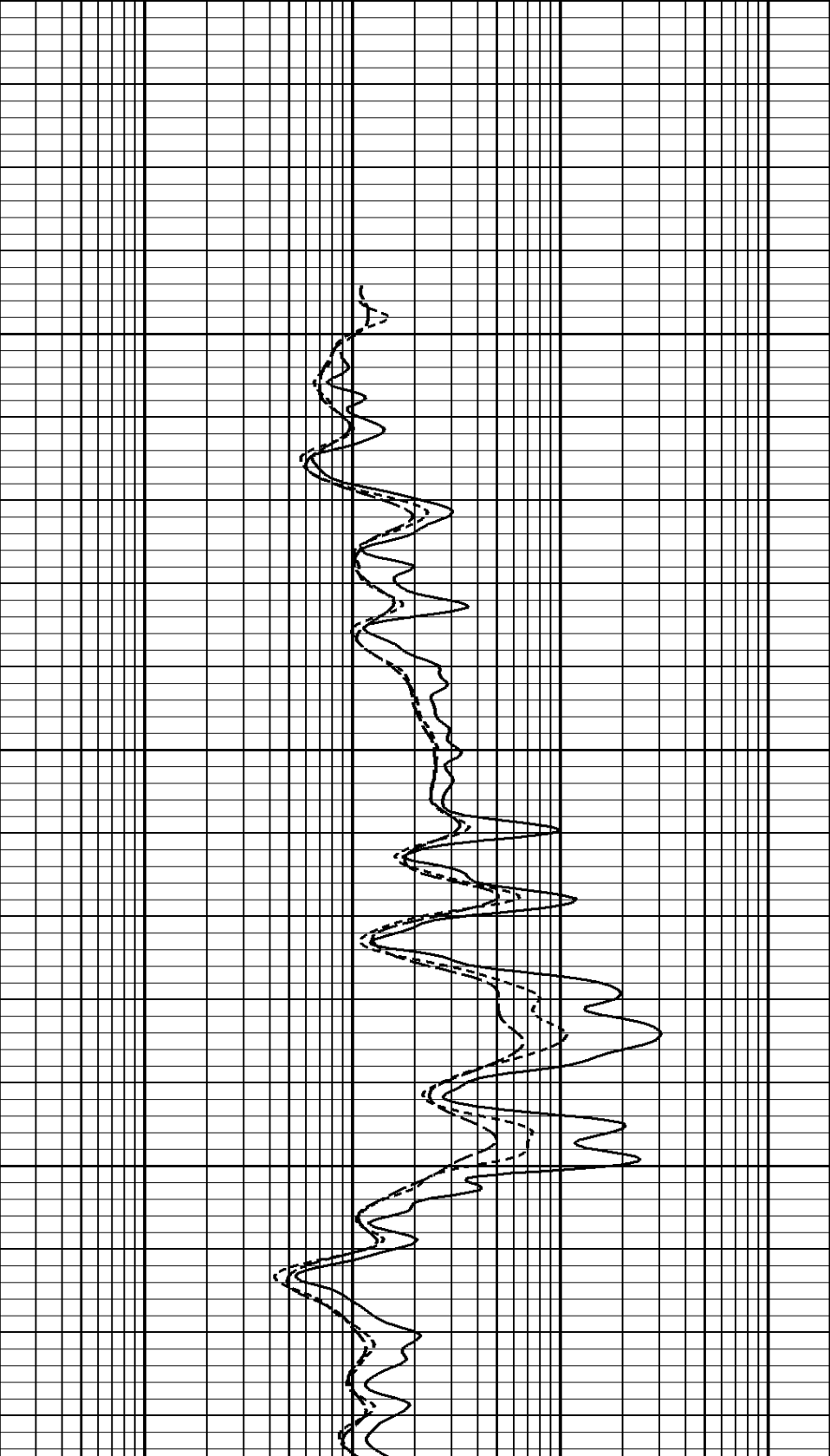


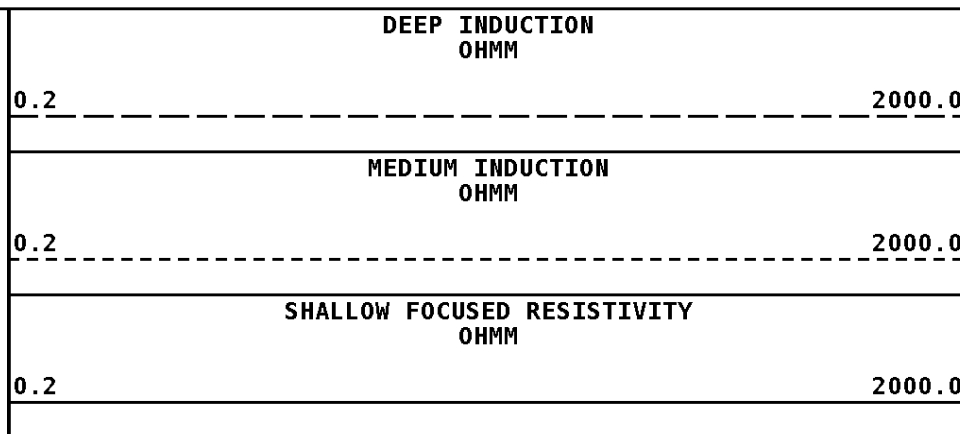
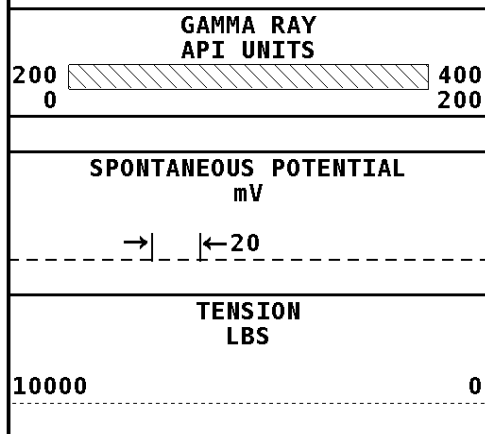
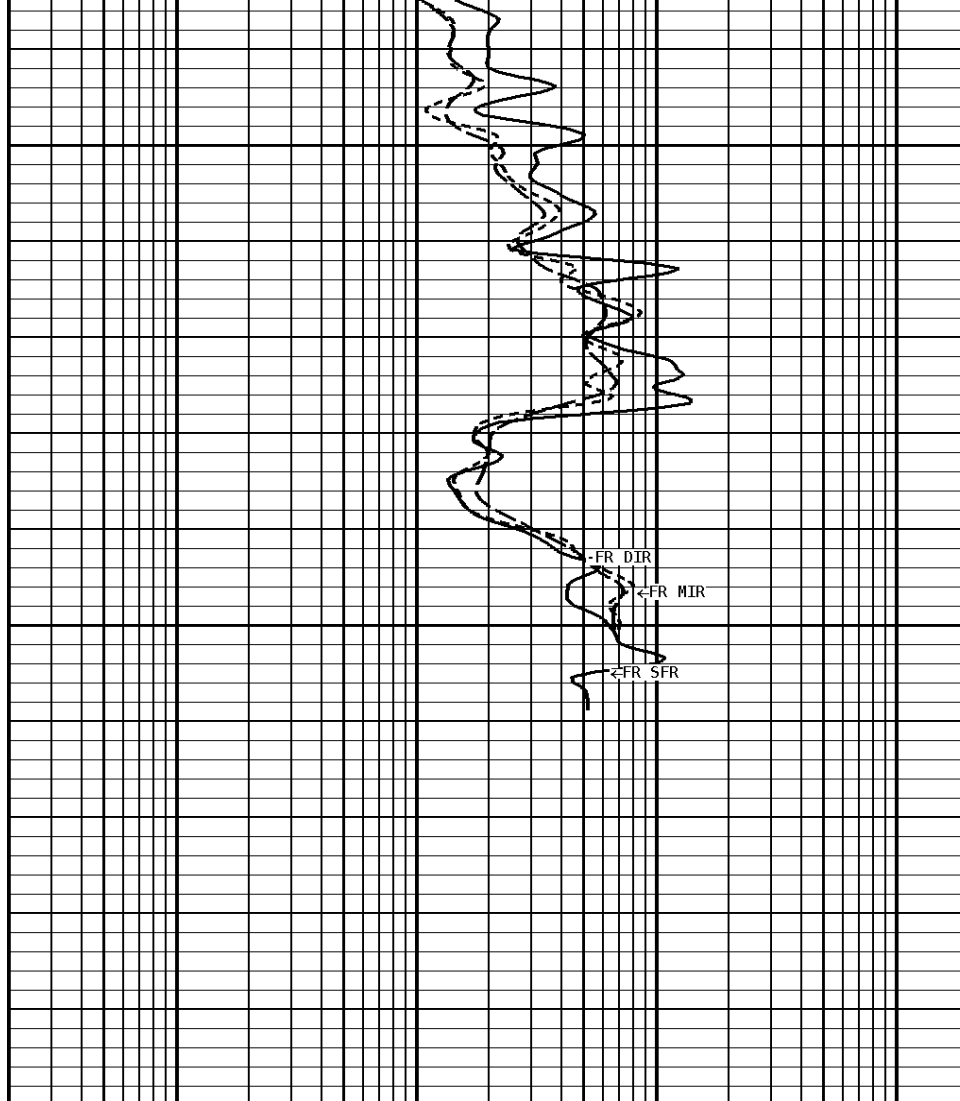
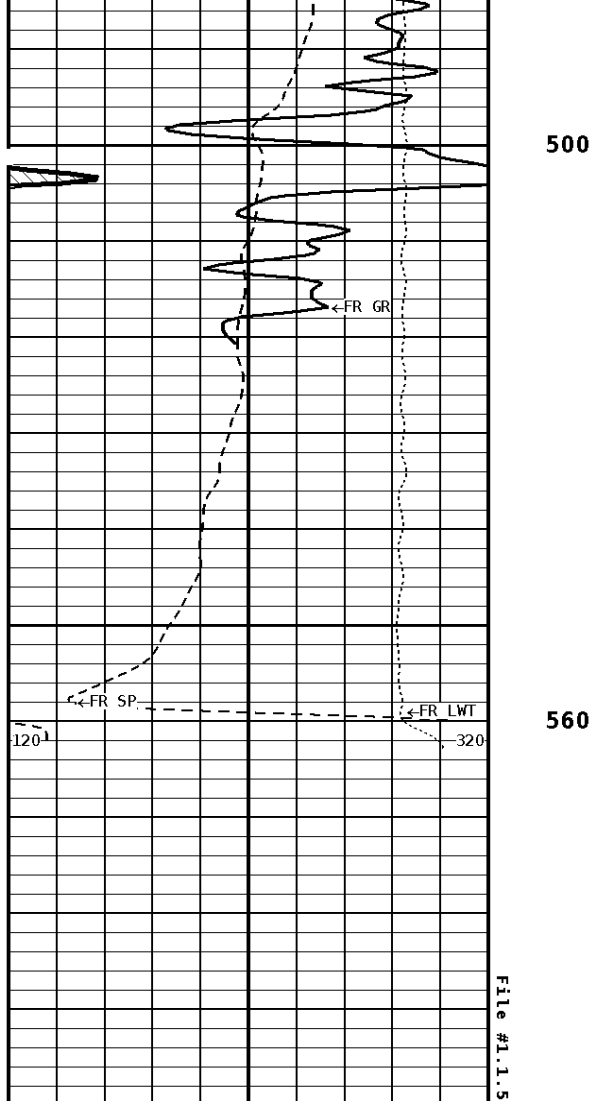


1:240 REPEAT SECTION



400





*** Borehole Zone Factors ***

Zone 1 99999.0 to 0.0 Feet		
Drill Bit Size	6.750	in
BHT Depth	560.000	ft
Borehole Temperature	80.0	degF
Temperature Gradient	1.00	DFHF
Resistivity Of Mud	4.000	ohm/m
Resistivity Of Mud Temperature	80.00	degF

*** Calibration Summary ***

Shop Calibration GRT-B						
Performed : 05-Jan-2010			Time : 12:41			
Sensor Suite : GR-GR5			ID : GRT-BC-44			
GR	Measured		Units	Calibrated		Units
	Background	Jig		Jig		
	58	335	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

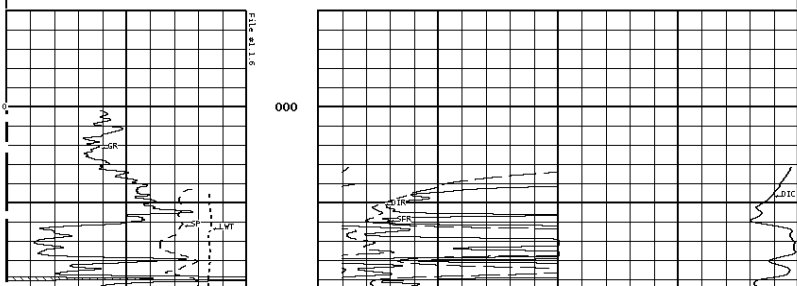
Performed : 28-Apr-2011			Time : 12:54		
Sensor Suite : SFL			ID : PIT-CA-069		
Internal					
	Measured		Calibrated		Units
	Zero	Reference	Zero	Reference	
Im	32786.2	49071.6	0.0	7028.0	uA
Ib	32768.9	49102.0	0.0	1750.0	mA
MOM1	32796.9	56691.2	0.0	175.0	mV
Equivalent SFL				43.97	OHMM

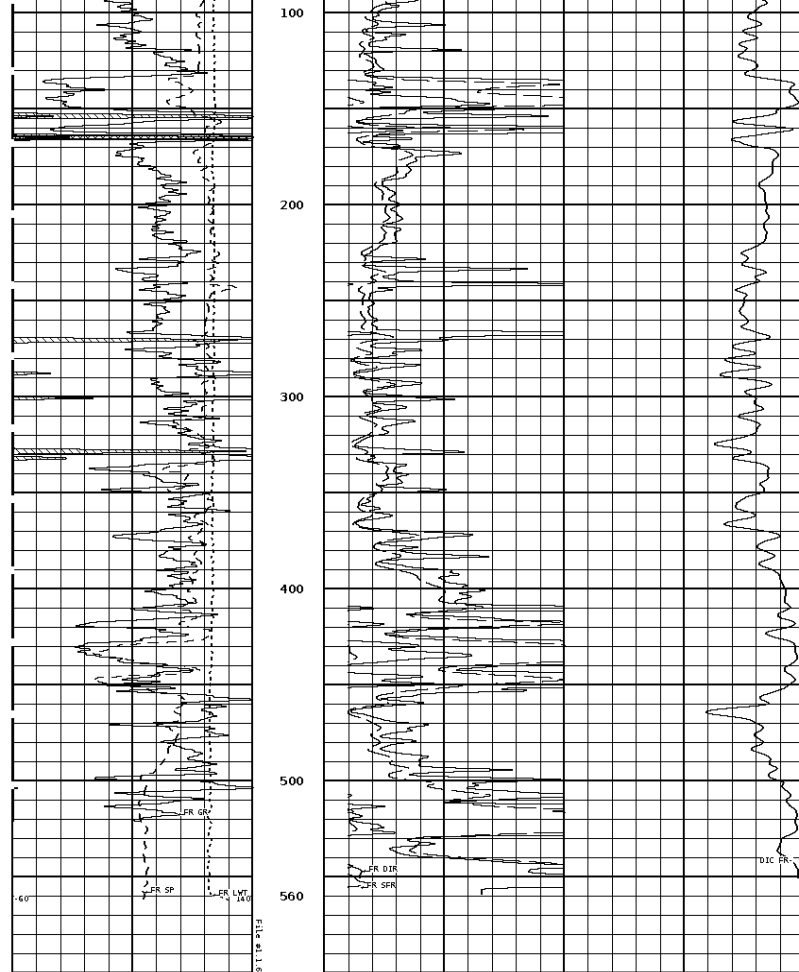
Performed : 28-Apr-2011			Time : 12:57		
Sensor Suite : P-SP			ID : PIT-CA-069		
Internal					
	Measured		Calibrated		Units
	Zero	Reference	Zero	Reference	
	32768.3	58943.9	0.0	1000.0	mV

Well File: run_wun_11-36a-1_aug_15_stk Scale: 1:500
Segment: V1.D1.56 MAIN Acquired: 2011-08/15 12:31 3.2.0-9963
Reference: 0 Processed: 2011-08/15 12:56 3.2.0-9963

TENSION LBS	SHALLOW FOCUSED RESISTIVITY OHMM
10000	0.0 500.0
0	0.0 50.0
SPONTANEOUS POTENTIAL mV	DEEP INDUCTION OHMM
→ ← 20	0.0 500.0
	0.0 50.0
GAMMA RAY API UNITS	DEEP CONDUCTIVITY MHMO
200 400	2000 1000
0 200	0 0

1:1200 SECTION





1:1200 SECTION

