Tucker WIRELINE SERVICES

DUAL INDUCTION RESISTIVITY LOG

CONFIDENTIAL 8/18/12

RECEIVED SEP 26 2011 Mo Oil & Gas Council

Company RUNNING FOXES PETROLEUM
Well EMMERSON 11-6B-1
Field
County VERNON
State KANSAS
Country USA
API No.

File No : TUL-55599
Company : RUNNING FOXES PETROLEUM INC
Well : EMMERSON 11-6B-1
Field :
County : VERNON
State : ~~KANSAS~~ MISSOURI
Country : USA
API No :

Location :
PERMIT #22584
2510' FSL & 1850' FWL

LSD : **Sect :** 6 **Twp :** 36N **Rge :** 33W

Permanent Datum:	GL	Elevations:			Services:
Drilling Measured From:	GL	KB	881.00	Ft	GRT PIT
Log Measured From:	GL	DF	0.00	Ft	CNT
Above Permanent Datum:	0.00 Ft	GL	881.00	Ft	LDT

Date	May 18 2011					
Run Number	1					
Depth--Driller	450.0	Ft				
Depth--Logger	420.0	Ft				
First Reading	429.0	Ft				
Last Reading	23.0	Ft				
Casing--Driller	20.0	Ft				
Casing--Logger	23.0	Ft				
Bit Size	5.625	In				
Casing Size	7.000	In				
Hole Fluid Type	NATIVE					
Density	0.0	LBS/GAL				
Fluid Loss	0.0	CC				
PH/Viscosity	0.0	0.0 SEC				
Sample Source	PIT					
RM@Measured Temp.	10.000 @ 72	F				
RMF@Measured Temp	8.000 @ 72	F				
RMC@Measured Temp.	99.999 @ 72	F				
Source RMF/RMC	CALCULATED	CALCULATED				
RM@BHT	0.000 @ 0	F				
Time Circulation Stopped						
Max Recorded Temp.	0	F				
Equipment/Base	TRK123	TULSA				
Recorded By	T. MONTGOMERY					
Witnessed By	M. MACHOSKY					

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 intepretations, conversions or recommendations as aforesaid.

Bitsize Intervals

Size (In)	Bottom (Ft)
5.625	450.00

Casing Strings

Size (In)	Weight (Lbs)	Bottom (Ft)
7.000	20.00	20.00

Run Number	1		
Date	May 18 2011		
Date/Time On Bottom			
Depth to Fluid	0.0	Ft	
Salinity	0.000	PPM	
RMF@BHT	0.000 @ 0	F	
RMC@BHT	0.000 @ 0	F	

Run Number 1

Comments

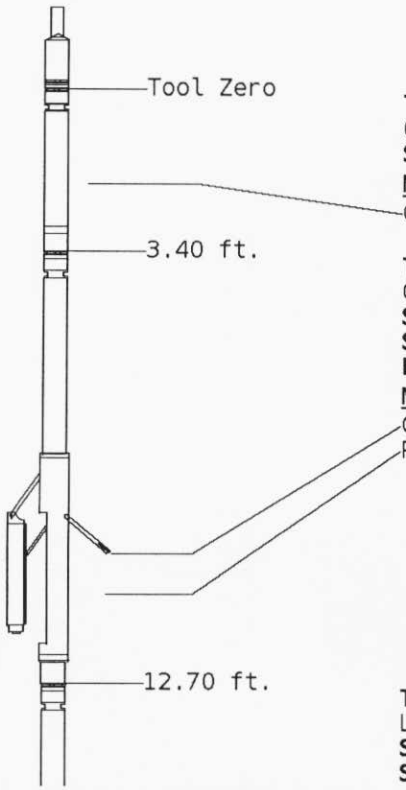
ALL PRESENTAATIONS AS PER CUSTOMER REQUEST
GRT, CNT, LDT, AND PIT RUN IN COMBINATION.
CALIPERS ORIENTED ON X-Y AXIS.
2.17 G/CC USED TO CALCULATED POROSITY.
ANNULAR HOLE VOLUME CALCULATED UISING 4.50" PRODUCTION CASING.
FLUID LEVEL 130'

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

OPERATORS:
S. DAVIS
M. GARNER

Tool String Schematic

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



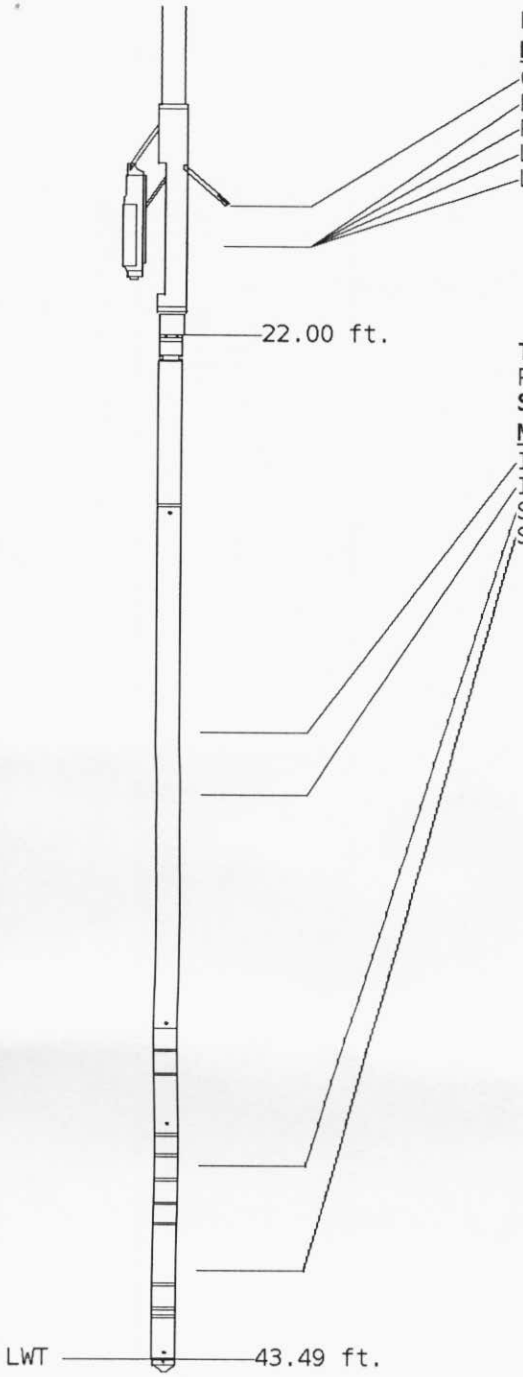
Tool: GRT-B **Length:** 3.40 **ft.** **O.D.** 3.60 **in.**
Gamma Ray Controller
Sonde ID :GRT-BB-109

Measure Point	Tool Offset	Stack Offset	Bottom Offset
GRP	2.00	2.00	41.49

Tool: CNT-AA **Length:** 9.30 **ft.** **O.D.** 4.36 **in.**
Compensated Neutron A Pad on NDT-A
Sonde ID :NDT-BB-129
Source ID :N-1046
Pad ID :CNP-AA-112

Measure Point	Tool Offset	Stack Offset	Bottom Offset
CLCN	6.00	9.40	34.09
PHIN	6.80	10.20	33.29

Tool: LDT-DA **Length:** 9.30 **ft.** **O.D.** 4.80 **in.**
Litho Density D Pad on NDT-A
Sonde ID :PDT-GA-472
Source ID :2991GW



Pad ID :LDP-DA-067

Measure Point	Tool Offset	Stack Offset	Bottom Offset
CLLD	6.00	18.70	24.79
PEL	7.00	19.70	23.79
PES	7.40	20.10	23.39
LDEN	7.20	19.90	23.59
LCOR	7.20	19.90	23.59

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	30.92	12.56
ILM	10.10	32.10	11.39
SFLU	17.49	39.49	4.00
SP	20.60	42.60	0.88

Well File: 123_RUN_EMER_11-6B-1_MAY_18_STK **Scale:** 1:600
Segment: V1.D1.S4 MN_REPRO **Acquired:** 2011-05/18 17:00 3.2.0-
Reference: 0 **Processed:** 2011-05/18 17:34 3.2.0-

TENSION
LBS
10000 0

SHALLOW FOCUSED RESISTIVITY
OHMM
0.0 500.0
0.0 50.0

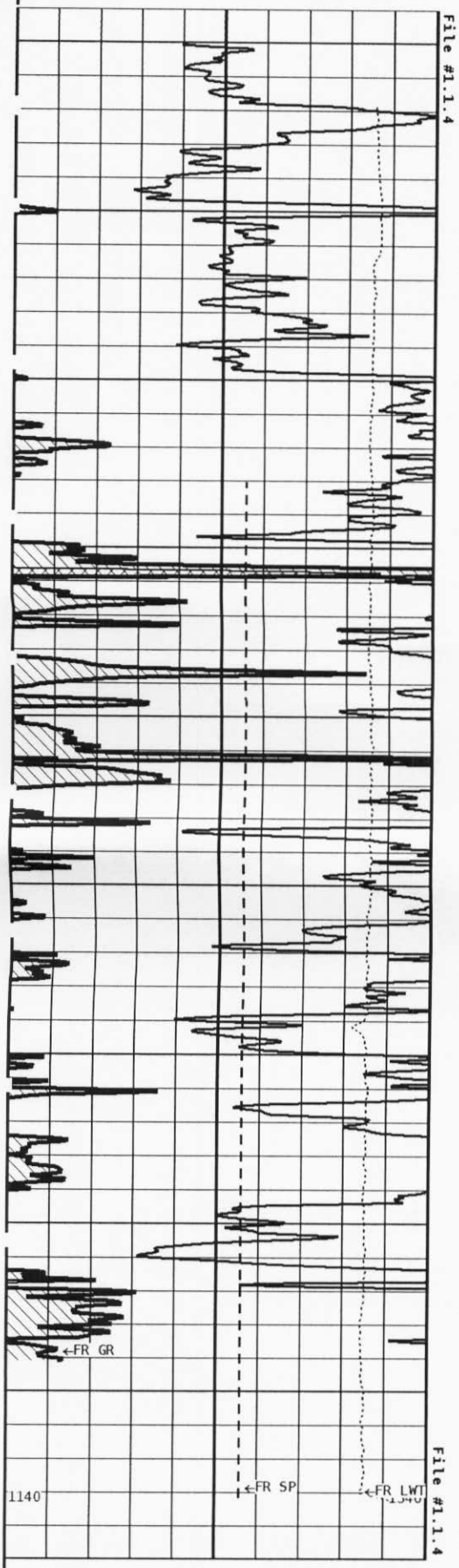
SPONTANEOUS POTENTIAL
mV
→| |←20

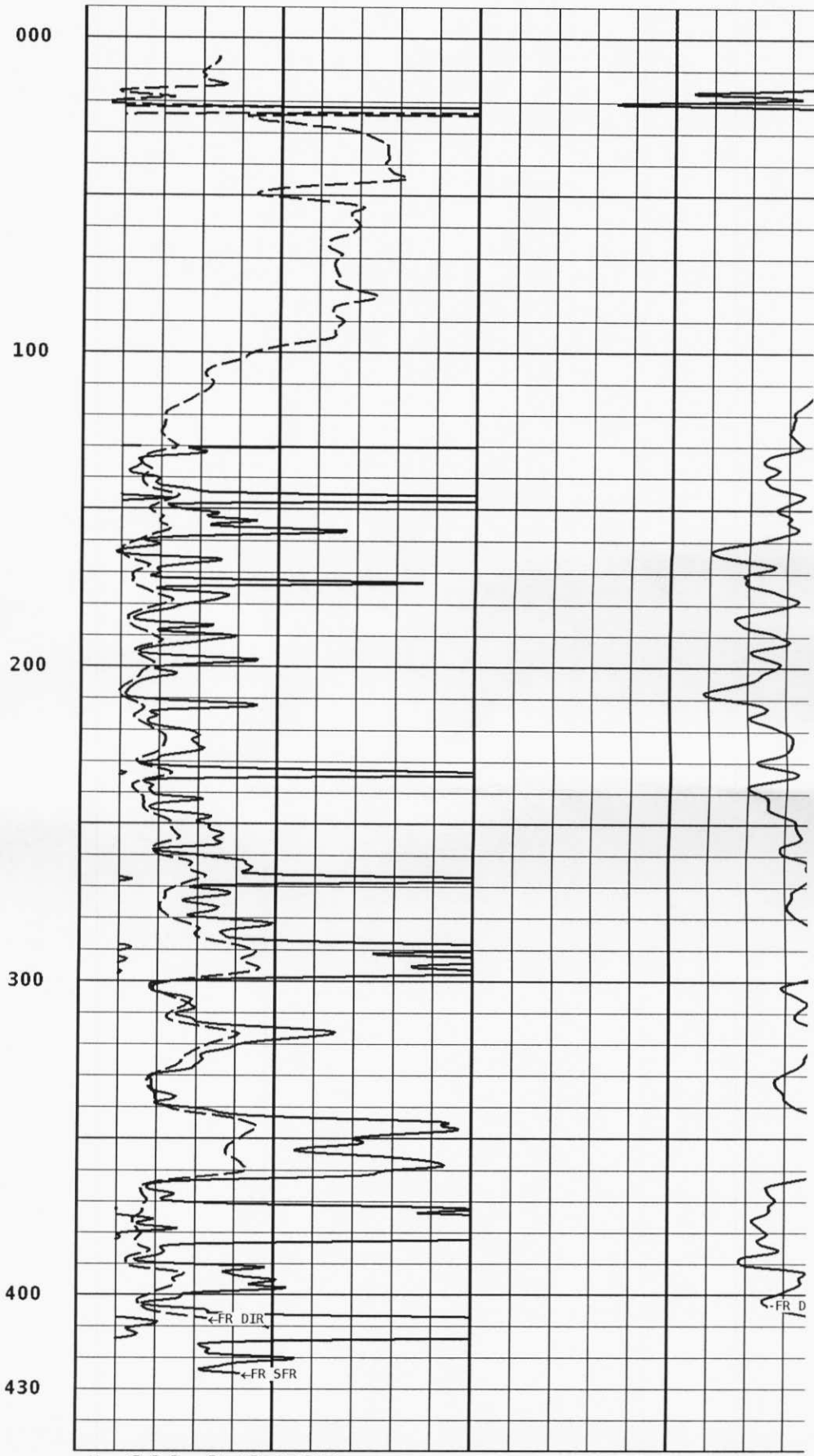
DEEP INDUCTION
OHMM
0.0 500.0
0.0 50.0

GAMMA RAY
API UNITS
150 300
0 150

DEEP CONDUCTIVITY
MMHO
2000
1000

1:600 SECTION





1:600 SECTION

GAMMA RAY API UNITS		DEEP CONDUCTIVITY MMHO

150 300
0 150

SPONTANEOUS POTENTIAL
mV
→| |←20

TENSION
LBS
10000 0

2000
1000

DEEP INDUCTION
OHMM
0.0 500.0
0.0 50.0

SHALLOW FOCUSED RESISTIVITY
OHMM
0.0 500.0
0.0 50.0

Well File: 123_RUN_EMER_11-6B-1_MAY_18_STK
Segment: V1.D1.S4 MN_REPRO
Reference: 0

Scale: 1:240
Acquired: 2011-05/18 17:00 3.2.0-
Processed: 2011-05/18 17:34 3.2.0-

TENSION
LBS
10000 0

SPONTANEOUS POTENTIAL
mV
→| |←20

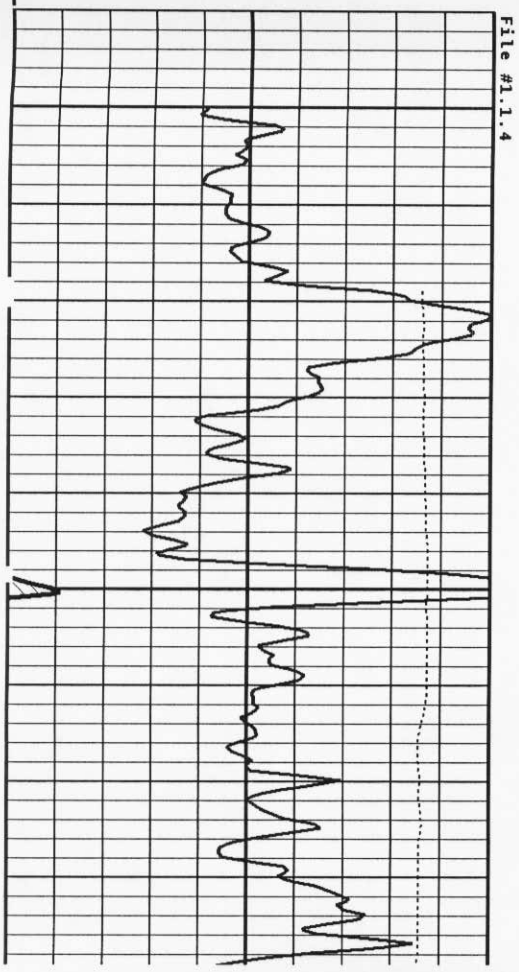
GAMMA RAY
API UNITS
150 300
0 150

SHALLOW FOCUSED RESISTIVITY
OHMM
0.2 20

MEDIUM INDUCTION
OHMM
0.2 20

DEEP INDUCTION
OHMM
0.2 20

1:240 MAIN SECTION



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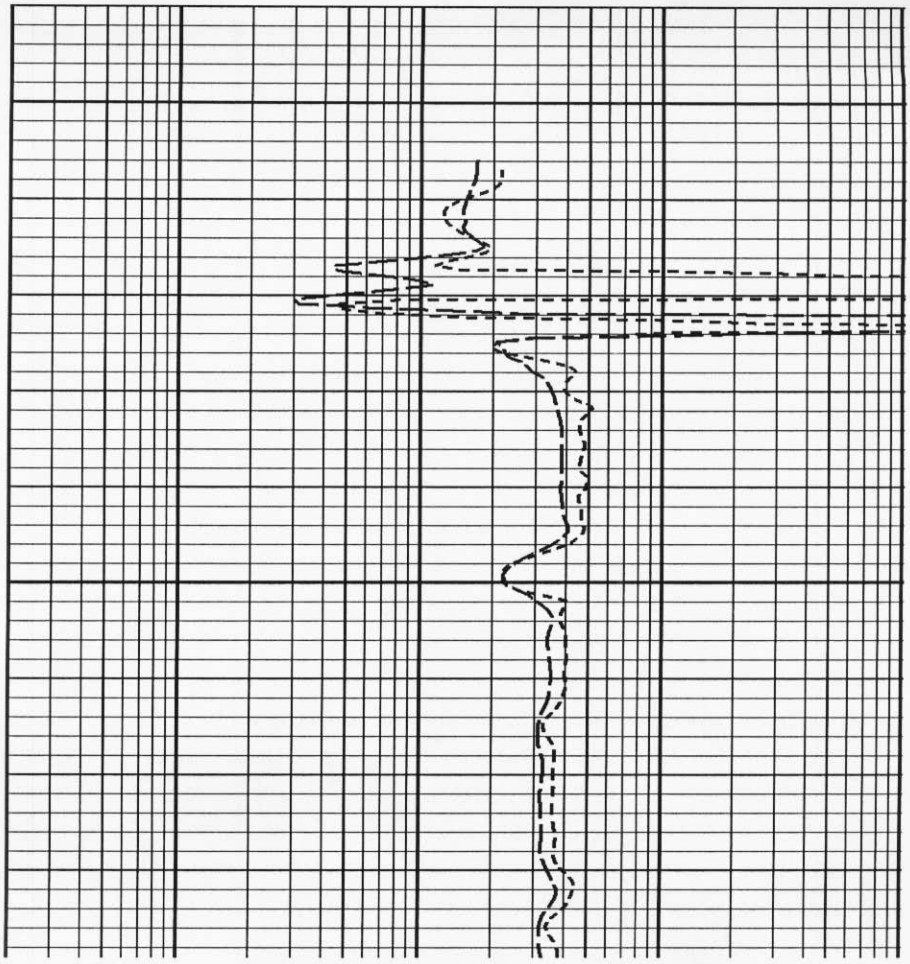
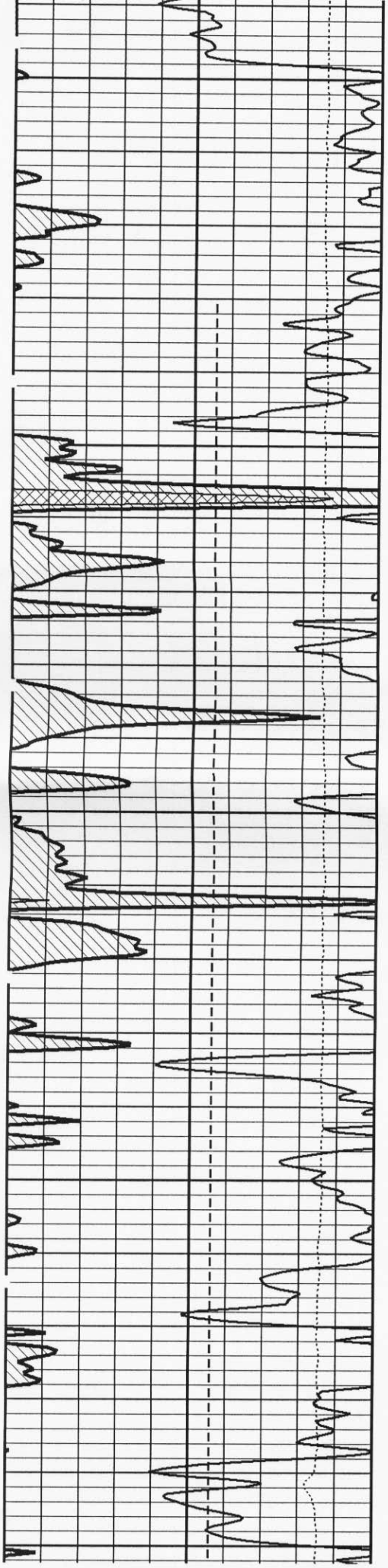
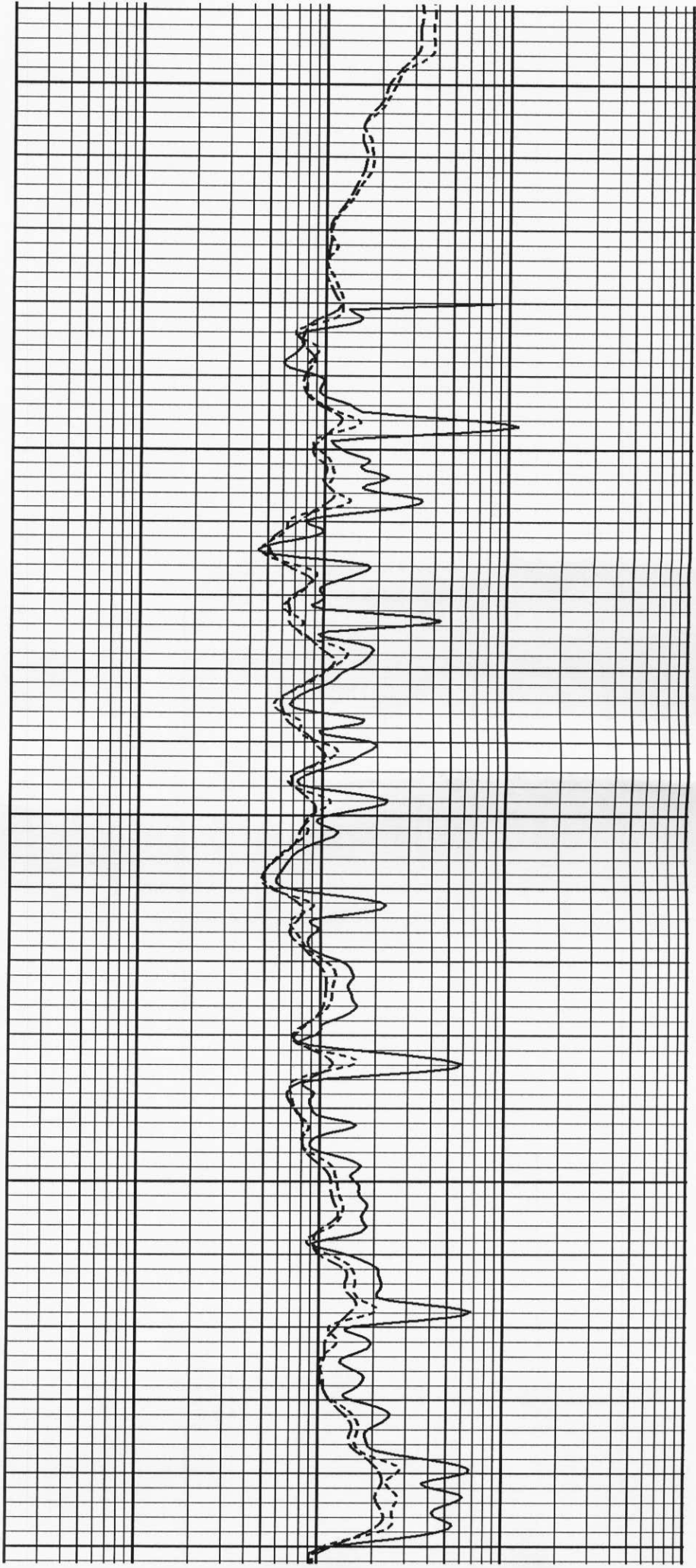


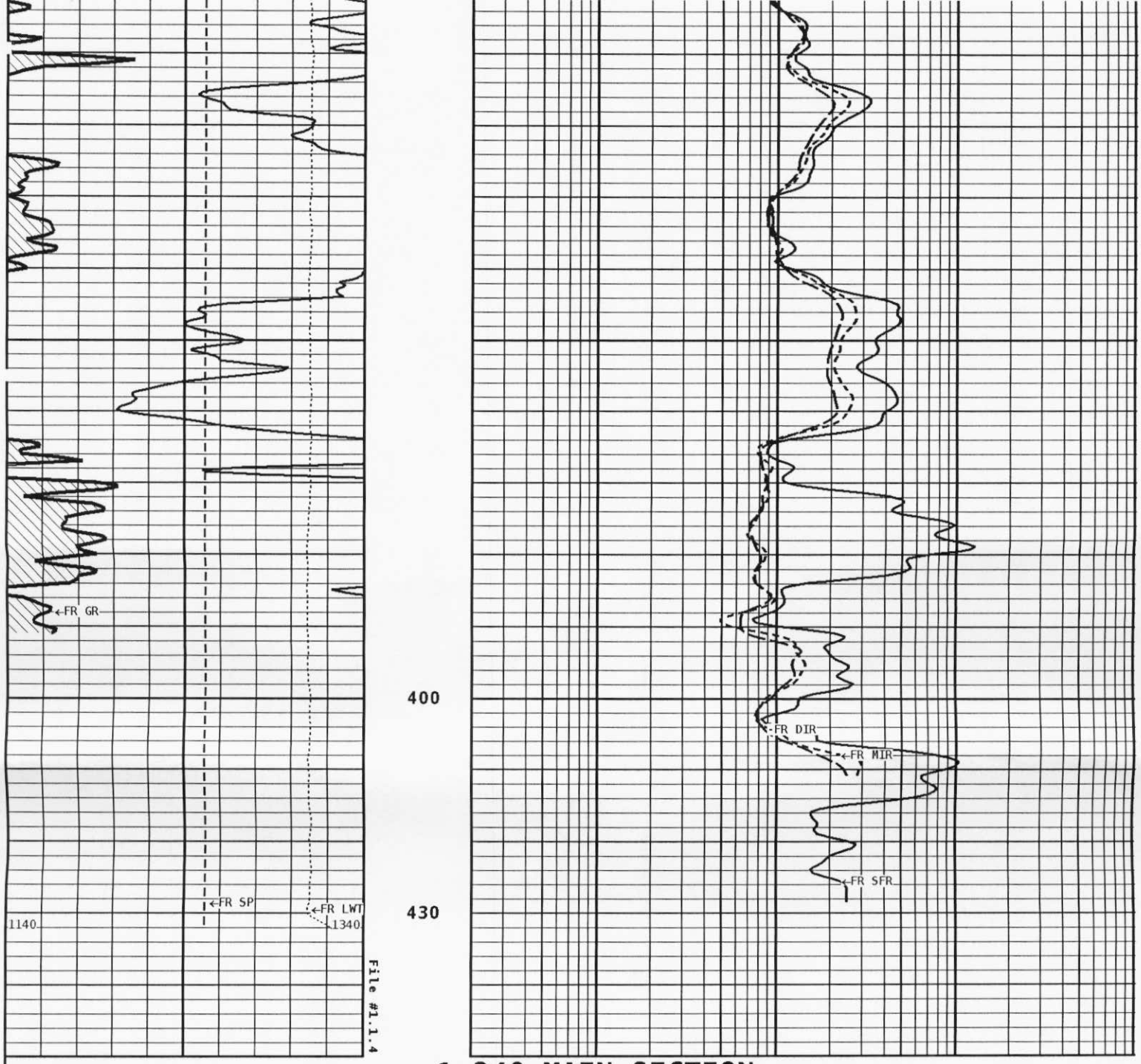




100

200

300



1:240 MAIN SECTION

GAMMA RAY API UNITS	DEEP INDUCTION OHMM
150 0 — 300 150	0.2 — 20
SPONTANEOUS POTENTIAL mV	**MEDIUM INDUCTION OHMM**
→| |←20	0.2 — 20
TENSION LBS	**SHALLOW FOCUSED RESISTIVITY OHMM**
10000 — 0	0.2 — 20

* Borehole Zone Factors *

Zone 1 99999.0 to 0.0 Feet

Drill Bit Size	5.625	in
BHT Depth	881.000	ft
Borehole Temperature	73.0	degF
Temperature Gradient	1.00	DFHF
Resistivity Of Mud	0.200	ohm/m
Resistivity Of Mud Temperature	50.00	degF

Well File: 123_RUN_EMER_11-6B-1_MAY_18_STK
Segment: V1.D1.S5 RPT_REPRO
Reference: 0

Scale: 1:240
Acquired: 2011-05/18 17:16 3.2.0-
Processed: 2011-05/18 17:34 3.2.0-

TENSION LBS
10000 — 0

SPONTANEOUS POTENTIAL mV
→| |←20

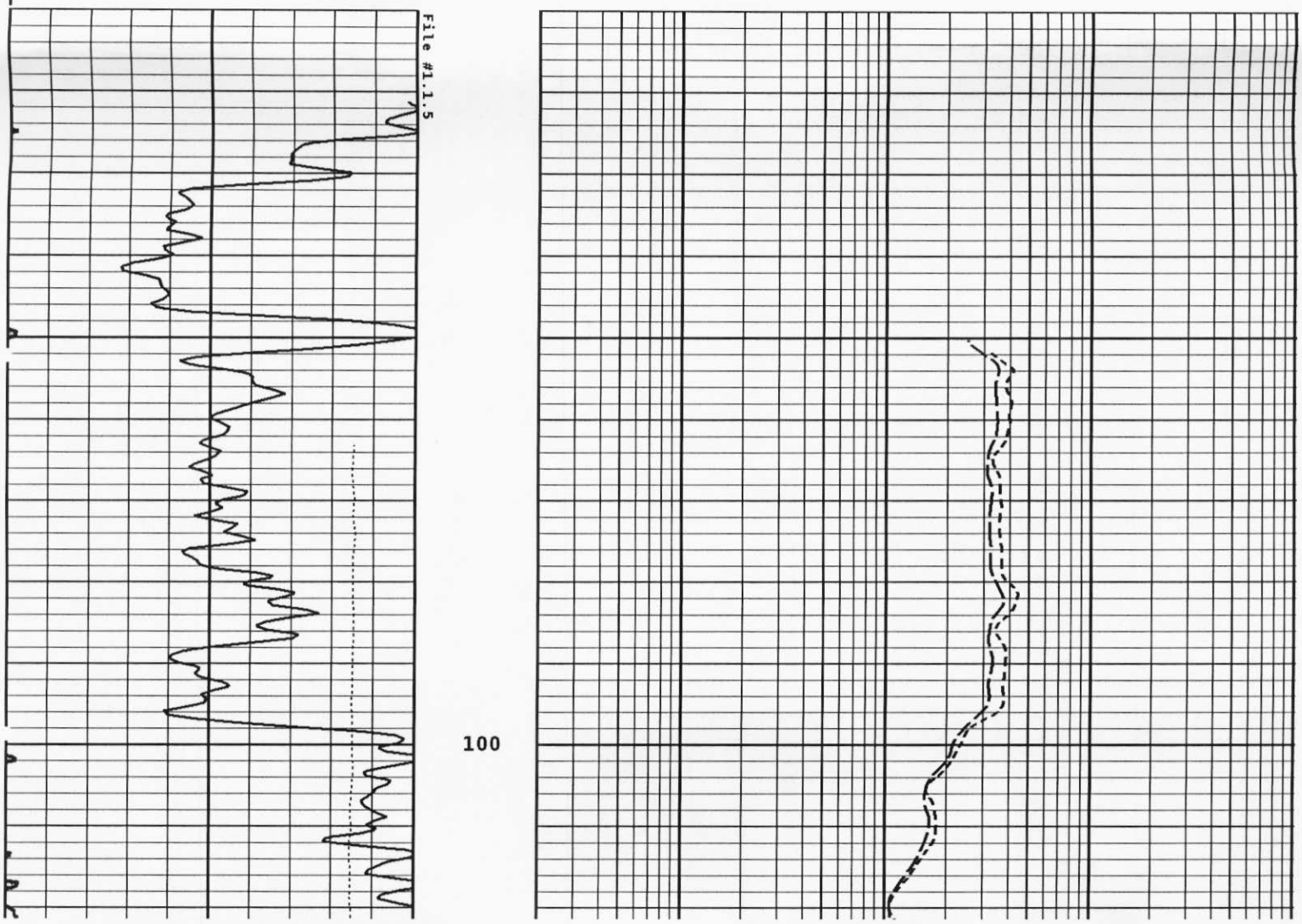
GAMMA RAY API UNITS
150 — 300
0 — 150

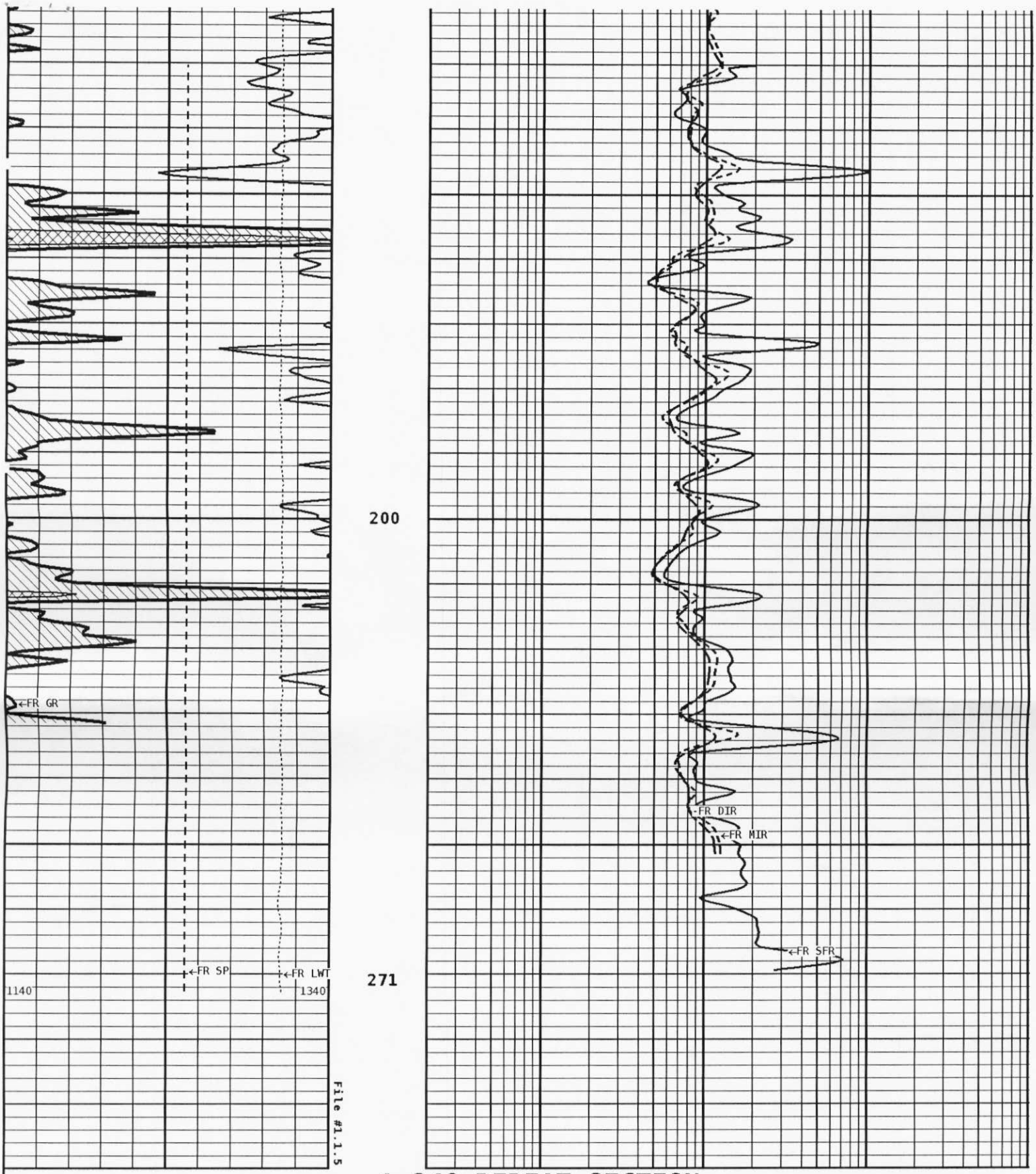
SHALLOW FOCUSED RESISTIVITY OHMM
0.2 — 20

MEDIUM INDUCTION OHMM
0.2 — 20

DEEP INDUCTION OHMM
0.2 — 20

1:240 REPEAT SECTION





1:240 REPEAT SECTION

GAMMA RAY API UNITS	DEEP INDUCTION OHMM
150 0 300 150	0.2 20
SPONTANEOUS POTENTIAL	MEDIUM INDUCTION

mV	OHMM
→| |←20	0.2 — 20
TENSION LBS	SHALLOW FOCUSED RESISTIVITY OHMM
10000 — 0	0.2 — 20

* Borehole Zone Factors *

Zone 1 99999.0 to 0.0 Feet

Drill Bit Size	5.625	in
BHT Depth	881.000	ft
Borehole Temperature	73.0	degF
Temperature Gradient	1.00	DFHF
Resistivity Of Mud	0.200	ohm/m
Resistivity Of Mud Temperature	50.00	degF

* Calibration Summary *

Shop Calibration GRT-B

Performed : 28-SEP-2005 Time : 14:40
Sensor Suite : GR-GR5 ID : GRT-BB-109

	Measured Background	Measured Jig	Units	Calibrated Jig	Units
GR	43	318	CPS	175	GRAPI

Shop Calibration PIT-CA

Performed : 28-APR-2011 Time : 13:11
Sensor Suite : P-IND-T ID : PIT-CA-069

Medium

	Measured R	Measured X	Calibrated R	Calibrated X	Units
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 R	Measured X	Calibrated R	Calibrated X	Units
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 Low	Measured High	Calibrated Low	Calibrated High	Units
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 Zero	Measured Reference	Calibrated Zero	Calibrated Reference	Units
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

Zero	Reference	Zero	Reference	Units
32768.3	58943.9	0.0	1000.0	mV

Well File: 123_RUN_EMER_11-6B-1_MAY_18_STK
Segment: V1.D1.S5 RPT_REPRO
Reference: 0

Scale: 1:600
Acquired: 2011-05/18 17:16 3.2.0-9901
Processed: 2011-05/18 17:34 3.2.0-9901

TENSION LBS
10000 — 0

SHALLOW FOCUSED RESISTIVITY OHMM
0.0 — 500.0
0.0 — 50.0

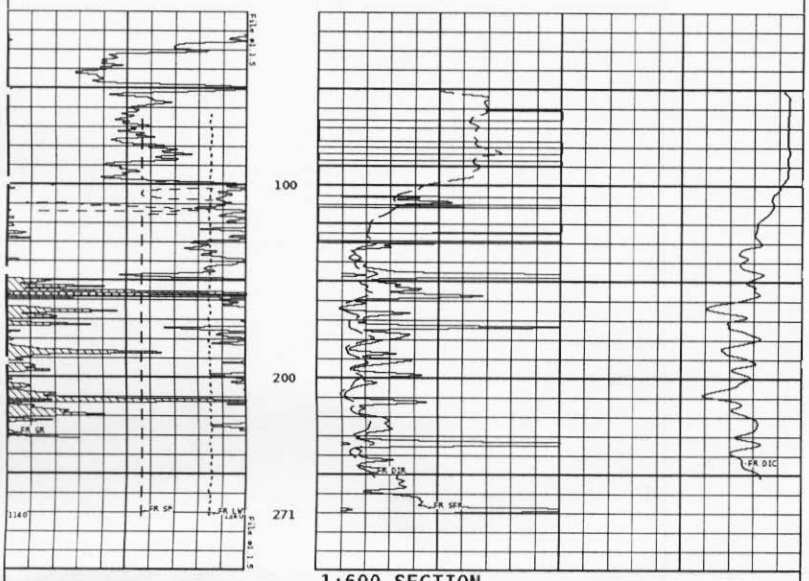
SPONTANEOUS POTENTIAL mV
→| |←20

DEEP INDUCTION OHMM
0.0 — 500.0
0.0 — 50.0

GAMMA RAY API UNITS
150 — 300
0 — 150

DEEP CONDUCTIVITY MMHO
2000 — 1000
1000 — 0

1:600 SECTION



1:600 SECTION

GAMMA RAY API UNITS
150 — 300
0 — 150

DEEP CONDUCTIVITY MMHO
2000 — 1000
1000 — 0

SPONTANEOUS POTENTIAL mV
→| |←20

DEEP INDUCTION OHMM
0.0 — 500.0
0.0 — 50.0

TENSION LBS
10000 — 0

SHALLOW FOCUSED RESISTIVITY OHMM
0.0 — 500.0
0.0 — 50.0

Schlumberger BlueView :