317-225586

6/8/12

Tucker WIRELINE SERVICES

DUAL INDUCTION RESISTIVITY LOG

File No	TUL-56057
Company	RUNNING FOXES PETROLEUM
Well	EMMERSON 11-6B-3
Field	
County	VERNON
State	MISSOURI
Country	USA
API No	

Location : PERMIT#: 22586 2180' FSL & 1520' FWL

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

RECEIVED JUN 20 2011 Mo Oil & Gas Council

Company	RUNNING FOXES PETROLEUM
Well	EMMERSON 11-6B-3
Field	
County	VERNON
State	MISSOURI
Country	USA
API No.	

Permanent Datum:	GL	Elevations:	Services:
Drilling Measured From:	GL	KB 0.00 Ft	CNT
Log Measured From:	GL	DF 0.00 Ft	LDT
Above Permanent Datum:	0.00 Ft	GL 875.00 Ft	PIT

Date	2011-05-16
Run Number	1
Depth--Driller	450.0 Ft
Depth--Logger	446.0 Ft
First Reading	445.0 Ft
Last Reading	20.0 Ft
Casing--Driller	20.0 Ft
Casing--Logger	20.0 Ft
Bit Size	6.250 In
Casing Size	7.000 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.	10.000 @ 72 F
RMF@Measured Temp	8.000 @ 72 F
RMC@Measured Temp.	12.000 @ 72 F
Source RMF/RMC	CALCULATED / CALCULATED
RM@BHT	10.000 @ 72 F
Time Circulation Stopped	2011-05-16 12:18
Max Recorded Temp.	72 F
Equipment/Base	TRK 127 / TULSA
Recorded By	B.BAILEY
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		Casing Strings		
Size (In)	Bottom (Ft)	Size (In)	Weight (Lbs)	Bottom (Ft)
6.250	450.00	7.000	32.00	20.00

Run Number	1
Date	2011-05-16
Date/Time On Bottom	2011-05-16 17:15
Depth to Fluid	0.0 Ft
Salinity	0.000 PPM
RMF@BHT	8.000 @ 72 F
RMC@BHT	12.000 @ 72 F

Run Number 1

Comments

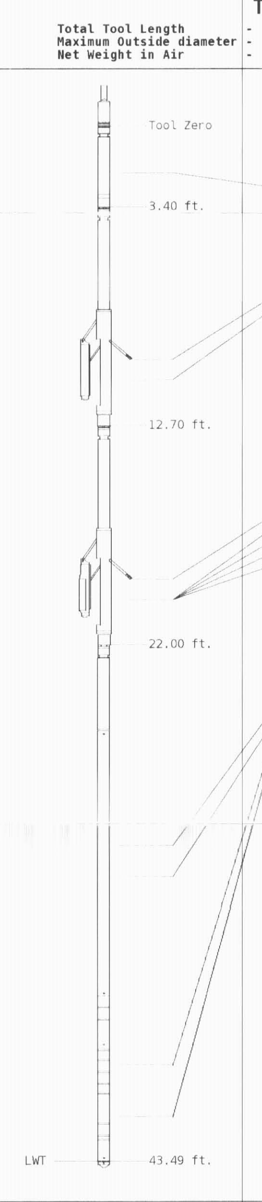
ALL PRESENTATIONS AS PER CUSTOMER REQUEST
GRT, CNT, LDT, AND PIT RUN IN COMBINATION.
CALIPERS ORIENTED ON X-Y AXIS.
2.71 G/CC USED TO CALCULATED POROSITY.
ANNULAR HOLE VOLUME CALCULATED UISING 4.500" PRODUCTION CASING.
DUE TO TIGHT HOLE REPEAT DONE UP HOLE.

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

OPERATORS:
R.AUSTIN

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-BA-121

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

Tool: CNT-AA Length: [illegible] O.D. [illegible]
Compensated Neutron A Pad on NDT-A
Sonde ID :NDT-CB-152
Source ID :N-1044
Pad ID :CNP-AA-111

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-465
Source ID :CSV-587
Pad ID :LDP-DA-065

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-074

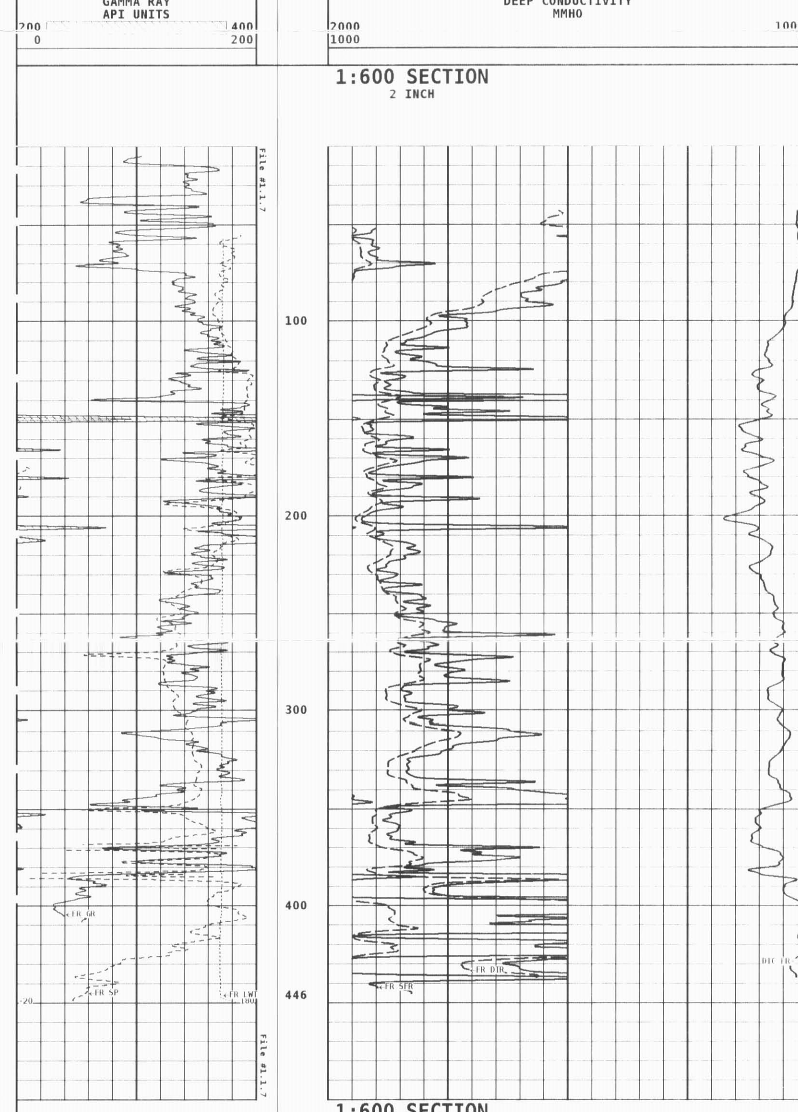
Measure Point	Tool Offset	Stack Offset	Bottom Offset
ILD	8.92	30.92	12.56
ILM	10.10	32.10	11.39
SFLU	17.49	39.49	4.00
SP	20.60	42.60	0.88

Well File: Running_Foxes_Petroleum_EMMERSON_11-6B-3st
Segment: V1.D1.S7 Reprocess MAIN
Reference: 0
Scale: 1:600
Acquired: 2011-05/16 17:17 3.2.0-9901
Processed: 2011-05/16 17:37 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 200 – 400; 0 – 200	DEEP CONDUCTIVITY MMHO 2000 – 1000; 1000 – 0

1:600 SECTION

2 INCH



1:600 SECTION

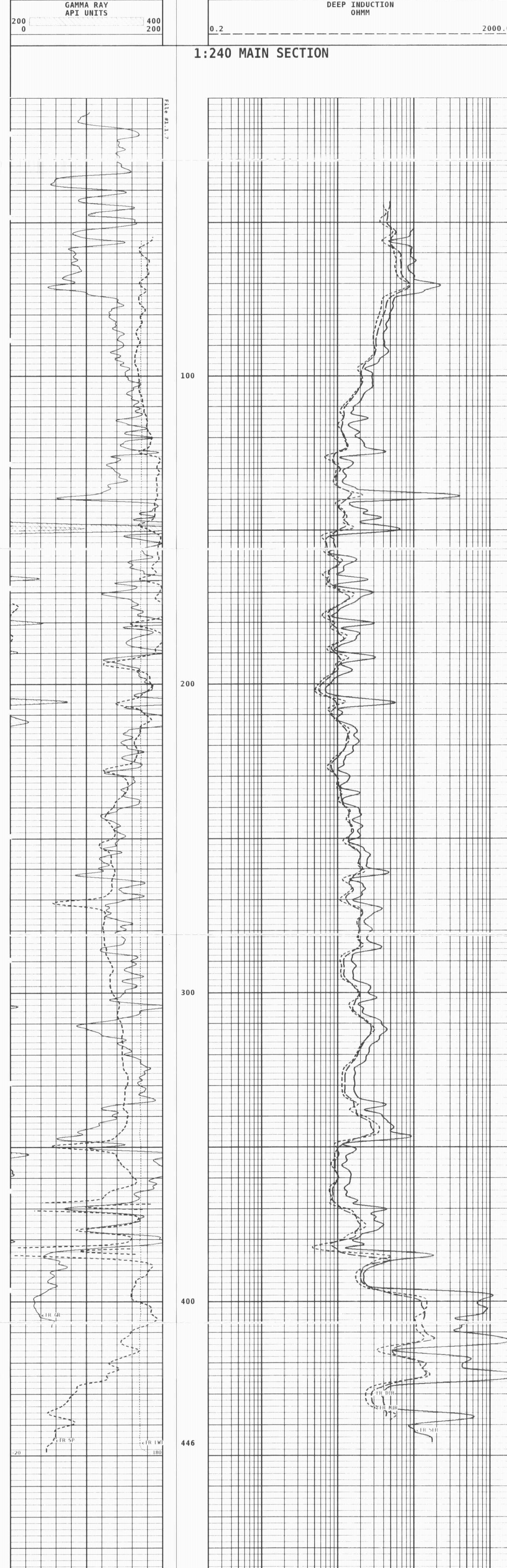
2 INCH

GAMMA RAY API UNITS 200 – 400; 0 – 200	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

Well File: Running_Foxes_Petroleum_EMMERSON_11-6B-3st
Segment: V1.D1.S7 Reprocess MAIN
Reference: 0
Scale: 1:240
Acquired: 2011-05/16 17:17 3.2.0-9901
Processed: 2011-05/16 17:37 3.2.0-9901

TENSION LBS 10000 – 0	SHALLOW FOCUSED RESISTIVITY OHMM 0.2 – 2000.0
SPONTANEOUS POTENTIAL mV →| |←20	MEDIUM INDUCTION OHMM 0.2 – 2000.0
GAMMA RAY API UNITS 200 – 400; 0 – 200	DEEP INDUCTION OHMM 0.2 – 2000.0

1:240 MAIN SECTION



1:240 MAIN SECTION

GAMMA RAY API UNITS 200 – 400; 0 – 200	DEEP INDUCTION OHMM 0.2 – 2000.0
SPONTANEOUS POTENTIAL mV →| |←20	MEDIUM INDUCTION OHMM 0.2 – 2000.0
TENSION LBS 10000 – 0	SHALLOW FOCUSED RESISTIVITY OHMM 0.2 – 2000.0

* Borehole Zone Factors *

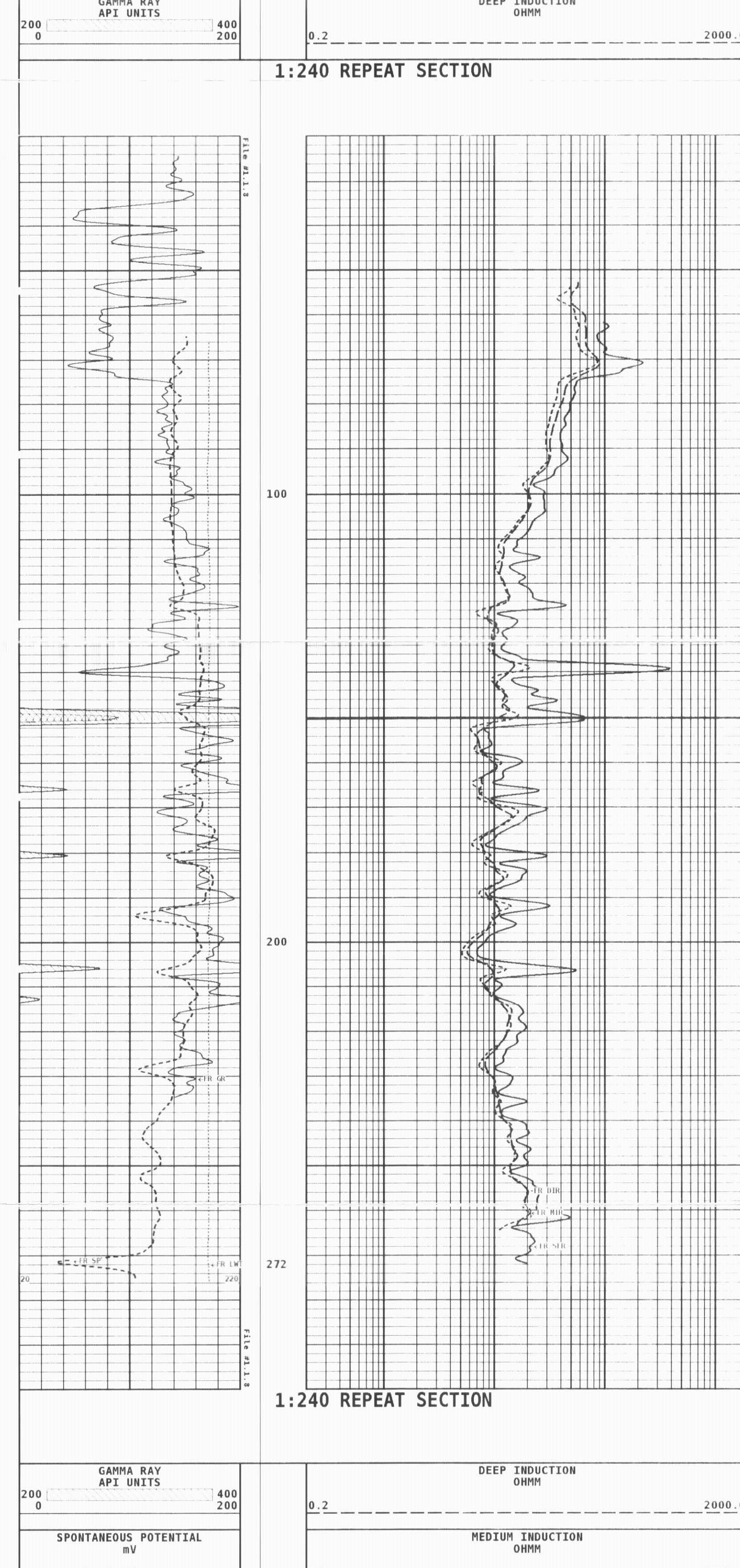
Zone 1 99999.0 to 0.0 Feet

Drill Bit Size	6.250	in
BHT Depth	450.000	ft
Borehole Temperature	72.0	degF
Temperature Gradient	1.00	DFHF
Resistivity Of Mud	10.000	ohm/m
Standoff	0.0	
Resistivity Of Mud Temperature	72.00	degF

Well File: Running_Foxes_Petroleum_EMMERSON_11-6B-3st
Segment: V1.D1.S8 REPEAT
Reference: 0
Scale: 1:240
Acquired: 2011-05/16 17:39 3.2.0-9901
Processed: 2011-05/16 17:39 3.2.0-9901

TENSION LBS 10000 – 0	SHALLOW FOCUSED RESISTIVITY OHMM 0.2 – 2000.0
SPONTANEOUS POTENTIAL mV →| |←20	MEDIUM INDUCTION OHMM 0.2 – 2000.0
GAMMA RAY API UNITS 200 – 400; 0 – 200	DEEP INDUCTION OHMM 0.2 – 2000.0

1:240 REPEAT SECTION



1:240 REPEAT SECTION

GAMMA RAY API UNITS 200 – 400; 0 – 200	DEEP INDUCTION OHMM 0.2 – 2000.0
SPONTANEOUS POTENTIAL mV →| |←20	MEDIUM INDUCTION OHMM 0.2 – 2000.0
TENSION LBS 10000 – 0	SHALLOW FOCUSED RESISTIVITY OHMM 0.2 – 2000.0

* Borehole Zone Factors *

Zone 1 99999.0 to 0.0 Feet

Drill Bit Size	6.250	in
BHT Depth	450.000	ft
Borehole Temperature	72.0	degF
Temperature Gradient	1.00	DFHF
Resistivity Of Mud	10.000	ohm/m
Standoff	0.0	
Resistivity Of Mud Temperature	72.00	degF

* Calibration Summary *

Shop Calibration GRT-B

Performed : 16-May-2011 Time : 10:12
Sensor Suite : GR-GR5 ID : GRT-BA-121

	Background	Measured Jig	Units	Calibrated Jig	Units
GR	51	355	CPS	175	GRAPI

Shop Calibration PIT-CA

Performed : 26-OCT-2010 Time : 15:00
Sensor Suite : P-IND-T ID : PIT-CA-074

Medium

	Measured R	Measured X	Calibrated R	Calibrated X	Units
Air	129085	131631	1.8	-0.9	MMHOS
Zero	131073	131069	0.0	0.0	MMHOS
Reference	250510	250460	5000.0	5000.0	MMHOS
Loop	150493	177054	2800.2	1005.1	MMHOS
Sonde Error			-0.2	-17.5	MMHOS
Cond			5000.0	5000.0	MMHOS

Deep

	Measured R	Measured X	Calibrated R	Calibrated X	Units
Air	129182	131225	0.2	-0.5	MMHOS
Zero	131070	131069	0.0	0.0	MMHOS
Reference	234261	234640	2000.0	2000.0	MMHOS
Loop	150874	177126	1307.0	465.5	MMHOS
Sonde Error			-5.0	-6.0	MMHOS
Cond			2000.0	2000.0	MMHOS

Temperature

Measured Low	Measured High	Calibrated Low	Calibrated High	Units
16980.0	56920.0	70.0	350.0	DEGF

Performed : [illegible] Oct 2010 Time : 14:2[illegible]
Sensor Suite : SFL ID : PIT-CA-074

Internal

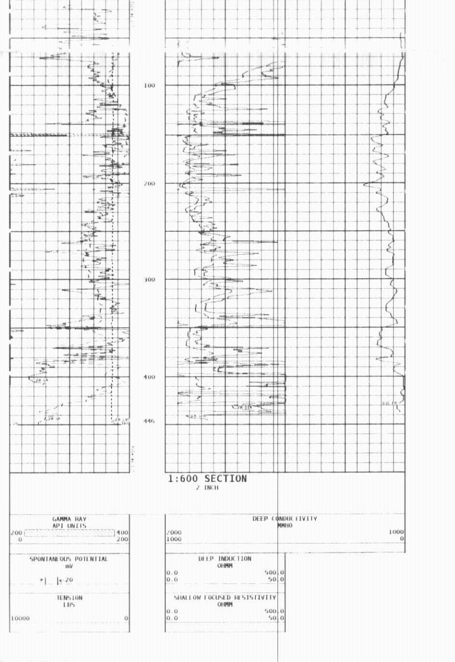
	Measured Zero	Measured Reference	Calibrated Zero	Calibrated Reference	Units
Im	32797.7	48515.7	0.0	7028.0	uA
Ib	32772.2	49422.5	0.0	1750.0	mA
MOM1	32741.3	56808.0	0.0	175.0	mV
Equivalent SFL				43.97	OHMM

Performed : 26-Oct-2010 Time : 13:58
Sensor Suite : P-SP ID : PIT-CA-074

Internal

Measured Zero	Measured Reference	Calibrated Zero	Calibrated Reference	Units
32766.9	58975.1	0.0	1000.0	mV

Performed : 10-SEP-2010 Time : 12:00
Sensor Suite : P-RMUD ID : PIT-CA-074

Internal

	Measured Zero	Measured Reference	Calibrated Zero	Calibrated Reference	Units
Rmi	0.0	34825.0	0.0	290.6	mA
Rmv	0.0	34825.0	0.0	290.6	mV
Equivalent Rm				0.0871	OHMM