Tucker WIRELINE SERVICES

CONFIDENTIAL
Until 09/27/2011

DUAL INDUCTION RESISTIVITY LOG

File No. :	TUL-55634
Company :	RUNNING FOXES PETROLEUM INC.
Well :	EMMERSON 11-6C-2
Field :	
County :	VERNON
State :	MISSOURI
Country :	USA
Location :	PERMIT: 22440 1850' FSL & 1520 FWL
	Sect : 6 Twp : 36N Rge : 33W
Recorded By :	B.BAILEY
Witnessed By :	G.BRATTON

Date : JUN 2 2010		
Run No. : 1		
Permanent Datum :	GL	
Drilling Measured From :	GL	
Log Measured From:	GL	
Above Permanent Datum :	0.00	FT
Depth--Driller :	436.0	FT
Depth--Logger :	435.0	FT
Bottom Log Interval :	434.0	FT
Top Log Interval :	20.0	FT
Casing Depth--Driller:	20.0	FT
Casing Depth--Logger :	20.0	FT
Casing Diameter :	7.000	IN
Bit Size :	6.125	IN
Unit No. :	122	
Location :	TULSA	

Elevations :
KB : FT
DF : FT
GL : 872.00 FT

Additional Services
CNT
LDT

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.

RECEIVED
SEP 27 2010
Mo Oil & Gas Council

Run Number 1

Depth To Fluid	0.0	FT		
Fluid Type In Hole :	FRESH/NATIVE			
Density :	0.000	SG		
Viscosity :	0.000	SEC		
pH :	0.000			
Fluid Loss :	0.000			
Salinity :	0.000	KPPM		
RM Source :	MEASURED			
RM :	10.000	OHMM at	94	F
RM at BHT :	9.008	OHMM at	83	F
RMF Source :	CALCULATED			
RMF :	8.500	OHMM at	94	F
RMF at BHT :	7.656	OHMM at	83	F
RMC Source :	CALCULATED			
RMC :	11.500	OHMM at	94	F
RMC at BHT :	10.359	OHMM at	83	F
Max Recorded Temp. :			83	F
Time Circulation Stopped :				
Operating Rig Time, Hrs. :			1.0	

- Source Serial Numbers -

Gamma	CSV-587
Neutron	N-1044

- Sonde Serial Numbers -

GRTB	GRT-BA-14
CNT	CNP-AA-111
LDTNG	LDP-NG-02
PIT	PIT-AB-14

Casing Strings

Size (IN)	Weight (LB/FT)	Bottom (FT)
7.000	32.00	20.00

- Comments -

ALL PRESENTATIONS AS PER CUSTOMER REQUEST.

GRT, CNT, LDT, PIT RAN IN COMBINATION
CALIPERS ORIENTED ON THE X-Y AXIS.
PHIN IS CALIPER CORRECTED.
2.71 G/CC USED TO CALCULATE POROSITY.
ANNULAR HOLE VOLUME CALCULATED USING 4.500" PRODUCTION CASING.

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

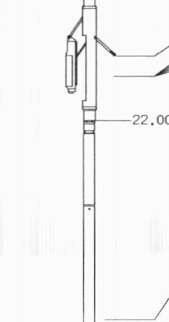
OPERATORS:

R.AUSTIN
M.BURKE

THANK YOU FOR USING TUCKER WIRELINE SERVICES!

Tool String Schematic

Total Tool Length - 43.29 ft.
Maximum Outside diameter - 4.80 in.
Net Weight in Air - 743.00 lbs.



Tool: GRTB Length: 3.40 ft. O.D.: 3.60 in.
Sonde ID : GRT-BA-14

Measure Point	Stack Offset	Tool Offset	Bottom Offset
GRP	2.00	2.00	41.29

Tool: CNT Length: 9.30 ft. O.D.: 4.36 in.
Sonde ID : CNP-AA-111
Source ID : N-1044
Pad ID : CNP-AA-111

Measure Point	Stack Offset	Tool Offset	Bottom Offset
CLCN	9.40	6.00	33.89
PHIN	10.24	6.84	33.05

Tool: LDTNG Length: 9.30 ft. O.D.: 4.80 in.
Sonde ID : LDP-NG-02
Source ID : CSV-587
Pad ID : LDP-NG-02

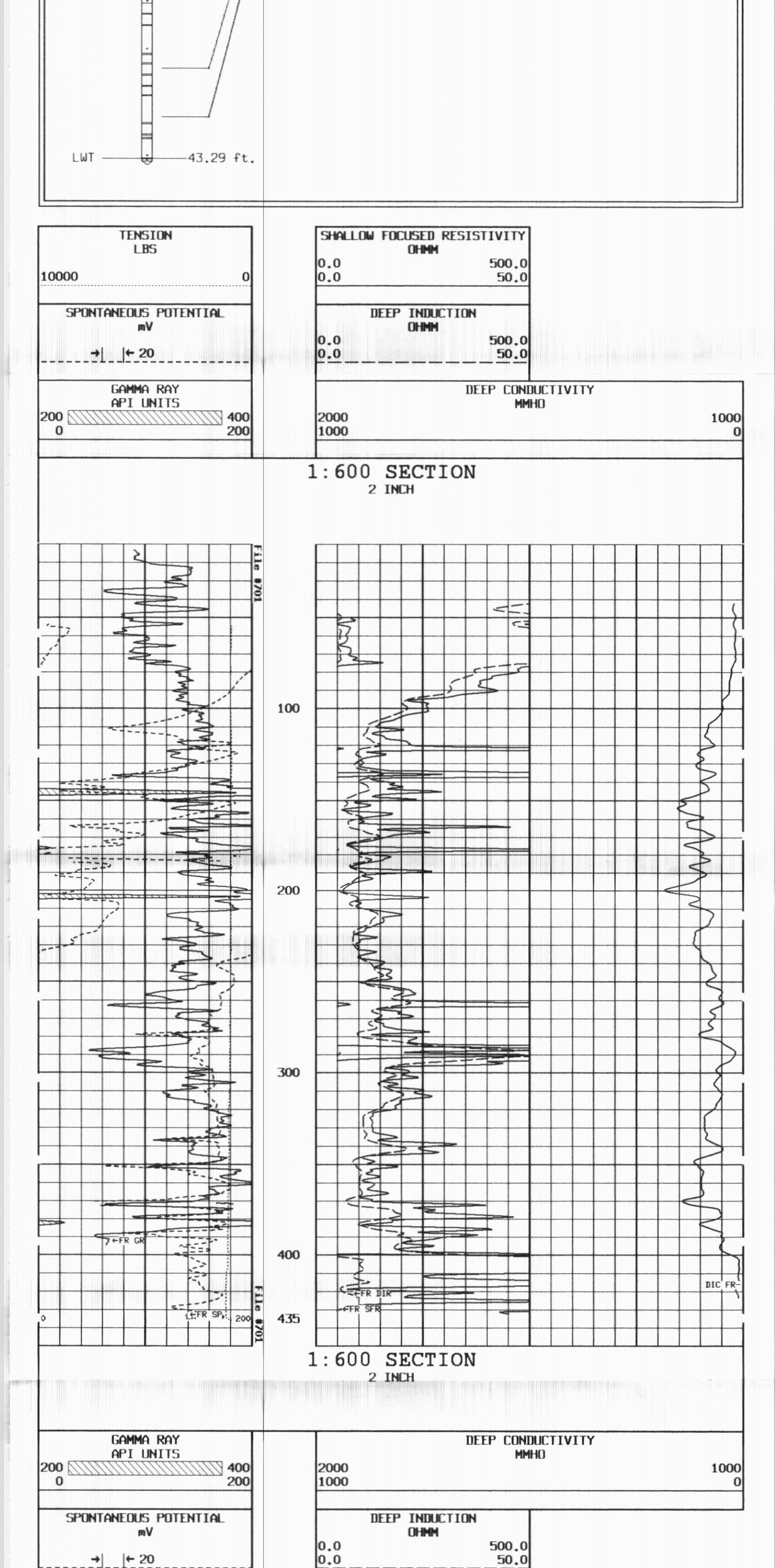
Measure Point	Stack Offset	Tool Offset	Bottom Offset
CLLD	18.70	6.00	24.59
PEL	19.70	7.00	23.59
PES	20.10	7.40	23.19
LDEN	19.70	7.00	23.59
LCOR	19.70	7.00	23.59

Tool: PIT Length: 21.29 ft. O.D.: 3.62 in.
Sonde ID : PIT-AB-14

Measure Point	Stack Offset	Tool Offset	Bottom Offset
ILD	30.92	8.92	12.37
ILM	32.10	10.10	11.20
SFLU	39.49	17.49	3.81
SP	42.60	20.60	0.69

TENSION LBS 10000 — 0
SPONTANEOUS POTENTIAL mV →| |← 20
GAMMA RAY API UNITS 200 — 400; 0 — 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
2 INCH

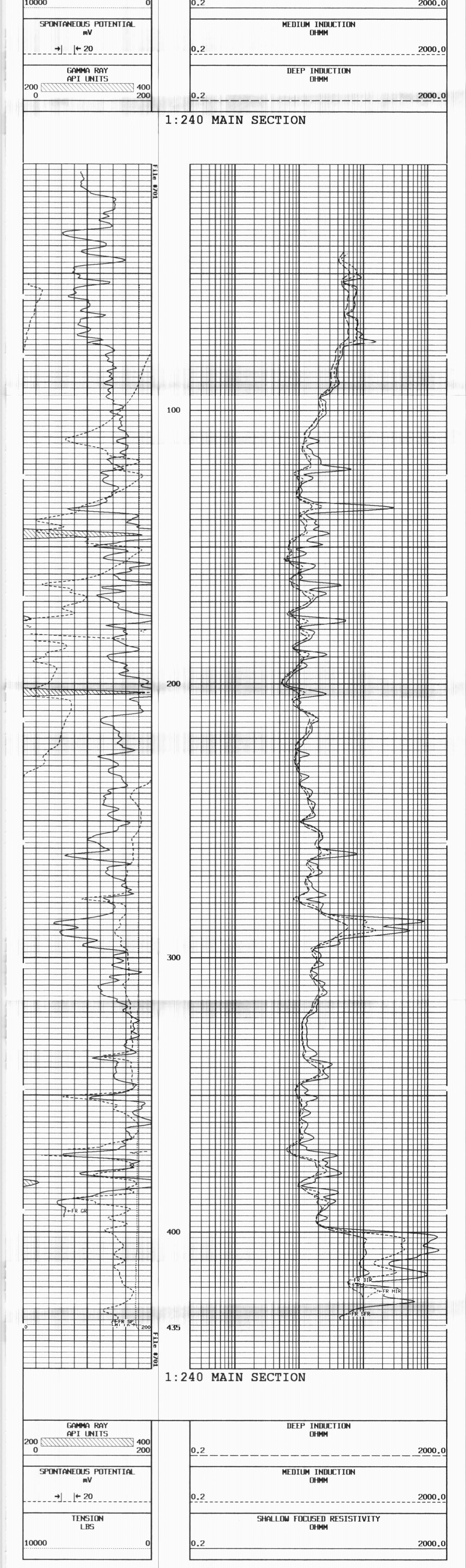


1:600 SECTION
2 INCH

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

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

1:240 MAIN SECTION



1:240 MAIN SECTION

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

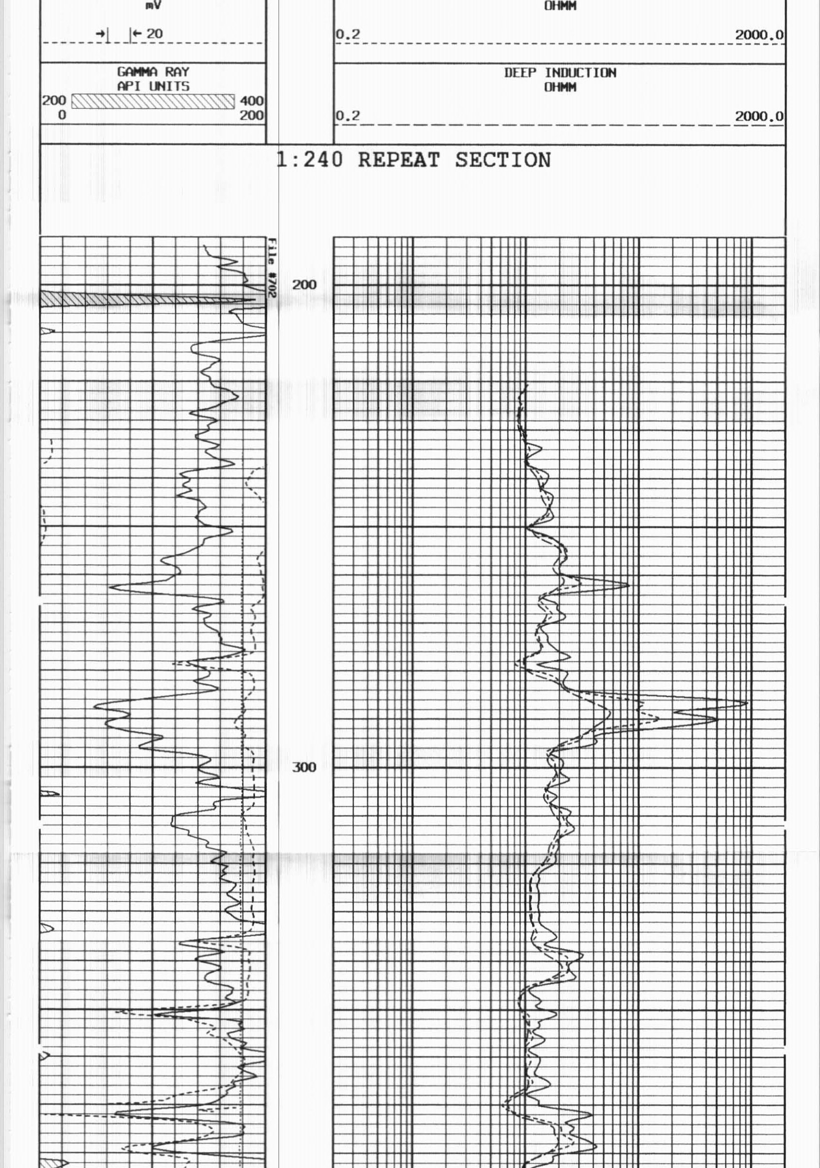
*** Borehole Zone Factors ***

Zone 1 99999.0 to 0.0 F

Drill Bit Size	6.125	IN
BHT Depth	436.000	F
Borehole Temperature	83.0	DEGF
Temperature Gradient	1.00	DFHF
Resistivity Of Mud	10.00	OHMM
Resistivity Of Mud Temperature	94.00	DEGF

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

1:240 REPEAT SECTION



1:240 REPEAT SECTION

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

*** Borehole Zone Factors ***

Zone 1 99999.0 to 0.0 F

Drill Bit Size	6.125	IN
BHT Depth	436.000	F
Borehole Temperature	83.0	DEGF
Temperature Gradient	1.00	DFHF
Resistivity Of Mud	10.00	OHMM
Resistivity Of Mud Temperature	94.00	DEGF

*** Calibration Summary ***

Shop Calibration GRTB

Performed : 21-Aug-2009 Time : 15:26
Sensor Suite : GR-GR5 ID : GRT-BA-14

	Measured Background	Measured Jig	Units	Calibrated Jig	Units
GR	49	347	CPS	175	GRAPI

Shop Calibration PIT

Performed : 09-Mar-2010 Time : 11:49
Sensor Suite : P-IND-T ID : PIT-AB-14

Medium

	Measured R	Measured X	Calibrated R	Calibrated X	Units
Air	131255	130232	-0.1	-0.1	MMHOS
Zero	131069	131070	0.0	0.0	MMHOS
Reference	247874	248000	5000.0	5000.0	MMHOS
Loop	151150	173026	2681.5	978.1	MMHOS
Sonde Error			-1.8	-1.4	MMHOS
Cond			5000.0	5000.0	MMHOS

Deep

	Measured R	Measured X	Calibrated R	Calibrated X	Units
Air	128932	131266	-0.0	0.0	MMHOS
Zero	131082	131071	0.0	0.0	MMHOS
Reference	232315	231356	2000.0	2000.0	MMHOS
Loop	149400	174585	1268.3	459.5	MMHOS
Sonde Error			-4.6	1.1	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 : 09-Mar-2010 Time : 11:45
Sensor Suite : SFL ID : PIT-AB-14

Internal

	Measured Zero	Measured Reference	Calibrated Zero	Calibrated Reference	Units
Im	32747.6	48726.7	0.0	7028.0	uA
Ib	32767.7	49769.5	0.0	1750.0	mA
MOM1	32750.0	56560.6	0.0	175.0	mV
Equivalent SFL				43.97	OHMM

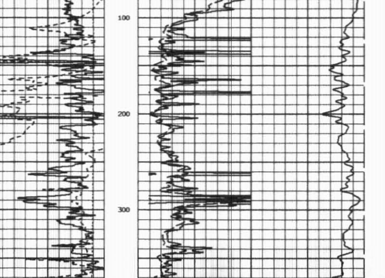
Performed : 09-Mar-2010 Time : 11:40
Sensor Suite : P-SP ID : PIT-AB-14

Internal

Measured Zero	Measured Reference	Calibrated Zero	Calibrated Reference	Units
32784.9	58942.3	0.0	1000.0	mV

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

1:1200 SECTION



1:1200 SECTION

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