217- 22375

Tucker
WIRELINE SERVICES

DUAL INDUCTION RESISTIVITY LOG

~~CONFIDENTIAL~~ until 10-22-10
RELEASED

File No. : TUL-55146
Company : RUNNING FOXES PETROLEUM, INC.
Well : EMERSON #12-6C-INJ
Field :
County : VERNON
State : MISSOURI
Country : U.S.A.

RECEIVED
OCT 22 2009
Mo Oil & Gas Council

Location : PERMIT #: 22375
1685' FSL & 365' FWL

Sect : 06 Twp : 36N Rge : 33W

Recorded By : R. FRANKLIN
Witnessed By : G. BRATTON (NOT ON LOCATION)

Date : MAR 13 2009
Run No. : 1

Permanent Datum :	GL	
Drilling Measured From :	GL	
Log Measured From:	GL	
Above Permanent Datum :	0.00	FT
Depth--Driller :	406.0	FT
Depth--Logger :	406.0	FT
Bottom Log Interval :	405.0	FT
Top Log Interval :	21.0	FT
Casing Depth--Driller:	20.5	FT
Casing Depth--Logger :	21.0	FT
Casing Diameter :	7.000	IN
Bit Size :	6.250	IN

Unit No. : 122
Location : TULSA

Elevations :

KB :		FT
DF :		FT
GL :	870.00	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.

Run Number 1

Depth To Fluid	0.0	FT		
Fluid Type In Hole :	NATIVE			
Density :	0.000	LBS/GAL		
Viscosity :	0.000	SEC		
pH :	0.000			
Fluid Loss :	0.000	CC		
Salinity :	0.000			
RM Source :	MEASURED			
RM :	1.430	OHMM at	61	F
RM at BHT :	1.140	OHMM at	78	F
RMF Source :	CALCULATED			
RMF :	1.210	OHMM at	61	F
RMF at BHT :	0.960	OHMM at	78	F
RMC Source :	CALCULATED			
RMC :	1.640	OHMM at	61	F
RMC at BHT :	1.310	OHMM at	78	F
Max Recorded Temp. :			78	F
Time Circulation Stopped :				
Operating Rig Time, Hrs. :			1.5	

- Source Serial Numbers -

Gamma	CSV587
Neutron	N-1044

- Sonde Serial Numbers -

GRTB	GRT-BA-103
CNT	CNP-AA-103
LDTNG	LDP-NG-35
PIT_B	PIT-CA-37

Casing Strings

Size (IN)	Weight (LB/FT)	Bottom (FT)
7.000	32.00	20.50

- 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 2.875" PRODUCTION CASING.

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

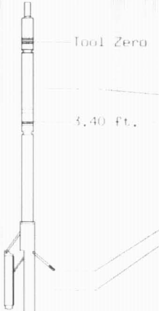
OPERATORS:

R. AUSTIN
L. BARTO

THANK YOU FOR USING TUCKER WIRELINE SERVICES!

Tool String Schematic

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

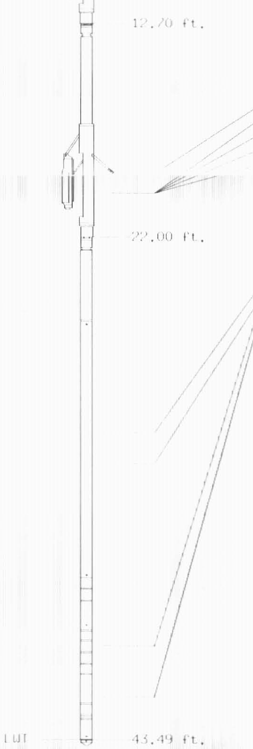


Tool: GRTB **Length:** 3.40 **ft. O.D.:** 3.60 **in.**
Sonde ID : GRT-BA-103

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

Tool: CNT **Length:** 9.30 **ft. O.D.:** 4.36 **in.**
Sonde ID : CNP-AA-103
Source ID : N-1044
Pad ID : CNT-AA-117

Measure Point	Stack Offset	Tool Offset	Bottom Offset
CLCN	9.40	6.00	34.09
PHIN	10.24	6.84	33.25



Tool: LDTNG **Length:** 9.30 **ft. O.D.:** 4.80 **in.**
Sonde ID : LDP-NG-35
Source ID : CSV587
Pad ID : LDP-NG-35

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

Tool: PIT **Length:** 21.49 **ft. O.D.:** 3.62 **in.**
Sonde ID : PIT-CA-37

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

TENSION
LBS
10000 0

SPONTANEOUS POTENTIAL
mV
→| |← 20

GAMMA RAY
API UNITS
200 400
0 200

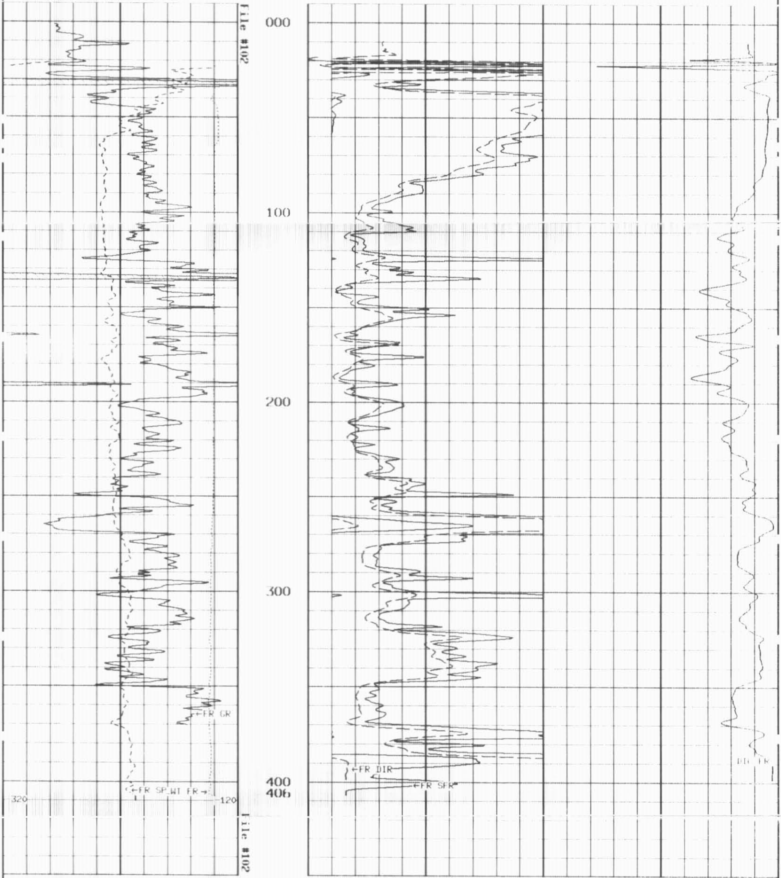
SHALLOW FOCUSED RESISTIVITY
OHMM
0.0 500.0
0.0 50.0

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

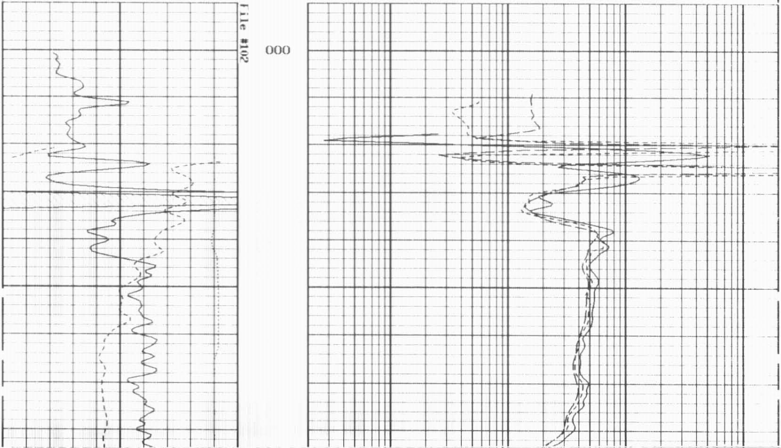
GAMMA RAY
API UNITS
200 ▨ 400
0 200

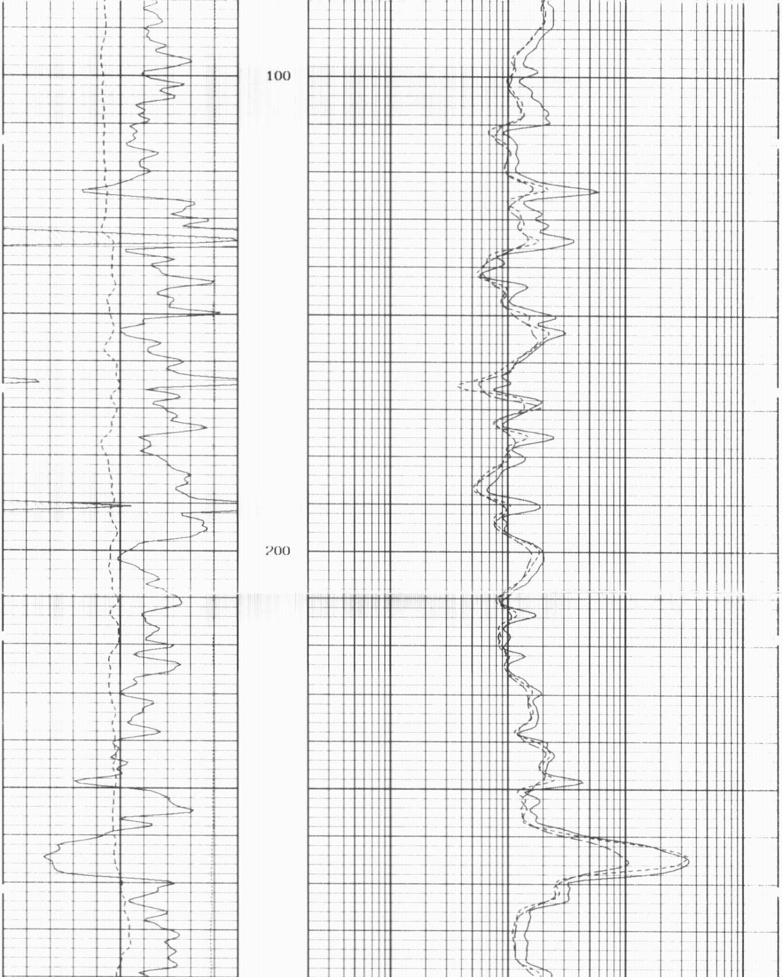
SHALLOW FOCUSED RESISTIVITY
OHMM
0.2 2000.0

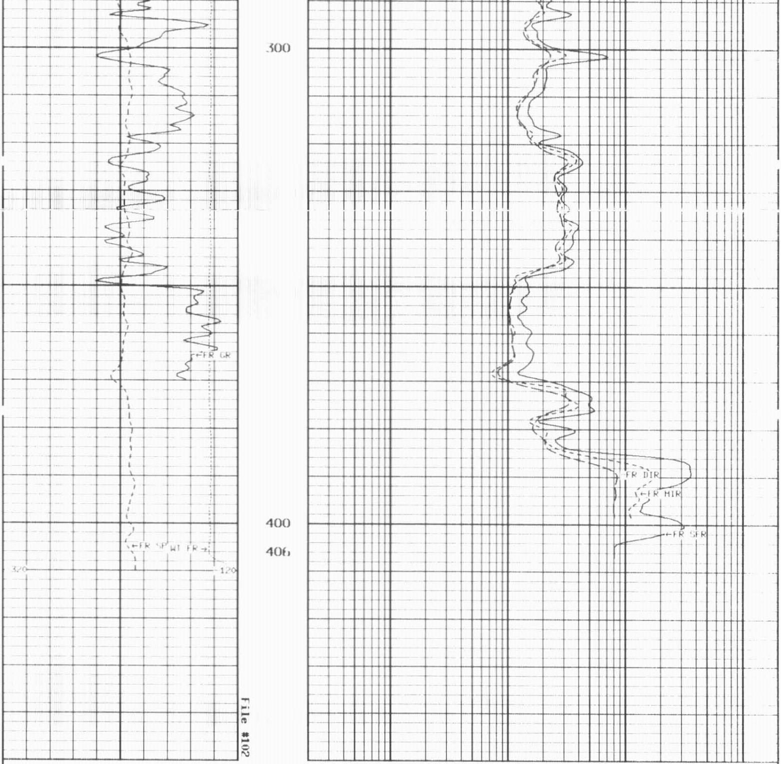
MEDIUM INDUCTION
OHMM
0.2 2000.0

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	6.250	IN
BHT Depth	406.000	F
Borehole Temperature	78.0	DEGF
Temperature Gradient	1.00	DFHF
Resistivity Of Mud	1.43	OHMM
Resistivity Of Mud Temperature	60.90	DEGF

TENSION
LBS
10000 0

SPONTANEOUS POTENTIAL
mV
→| |← 20

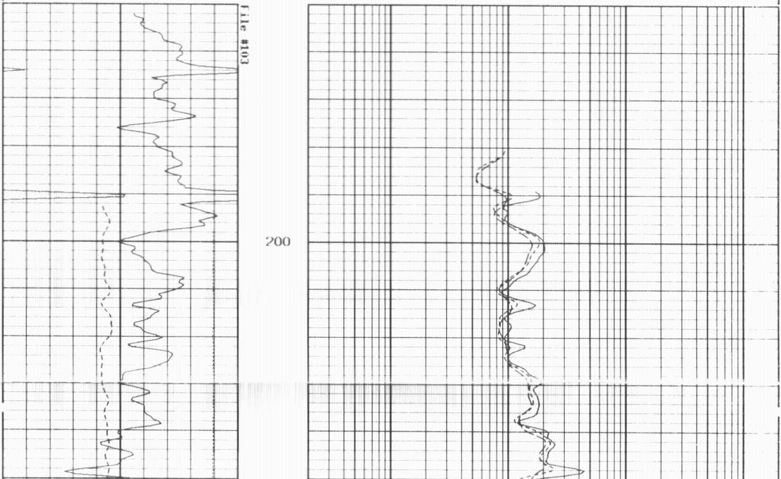
GAMMA RAY
API UNITS
200 400
0 200

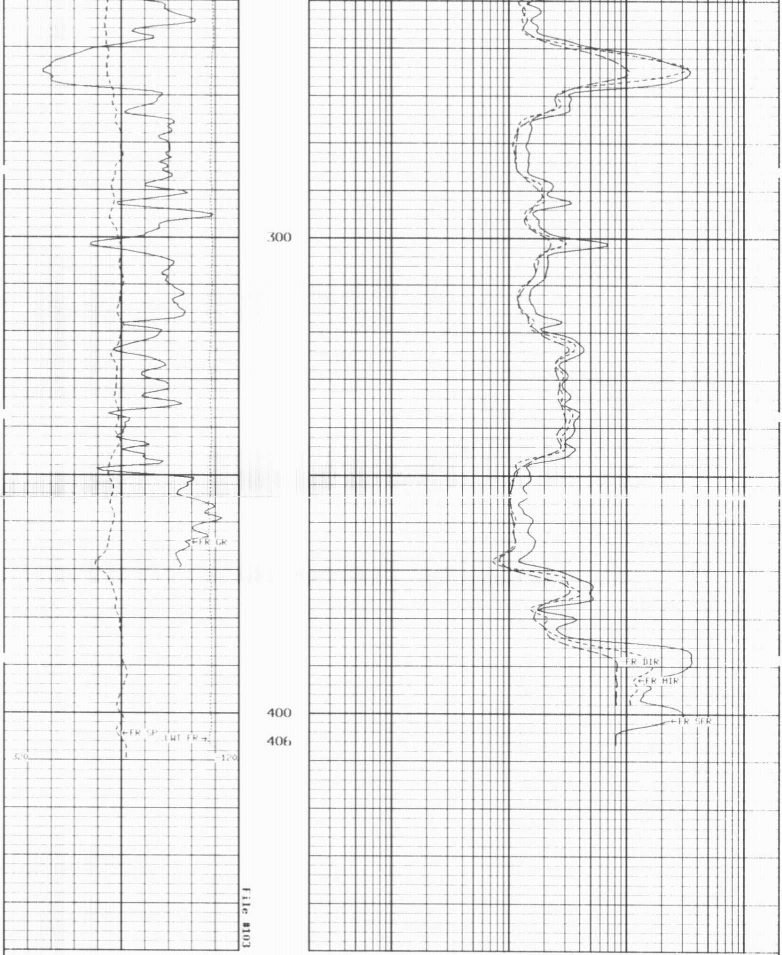
SHALLOW FOCUSED RESISTIVITY
OHMM
0.2 2000.0

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

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 F

Drill Bit Size	6.250	IN
BHT Depth	406.000	F
Borehole Temperature	78.0	DEGF
Temperature Gradient	1.00	DFHF
Resistivity Of Mud	1.43	OHMM
Resistivity Of Mud Temperature	60.90	DEGF

* Calibration Summary *

Shop Calibration
GRTB

Performed : 19-May-2008 Time : 10:16
Sensor Suite : GR-GR5 ID : GRT-BA-103

	Measured Background	Measured Jig	Units	Calibrated Jig	Units
GR	51	341	CPS	175	GRAPI

Shop Calibration
PIT_B

Performed : 02-Feb-2009 Time : 10:48
Sensor Suite : F-IND-1 ID : PIT-LA-37

Medium

	Measured R	Measured X	Calibrated R	Calibrated X	Units
Air	131799	128878	-0.8	-1.0	MMHOS
Zero	131073	131061	0.0	0.0	MMHOS
Reference	256294	255169	5000.0	5000.0	MMHOS
Loop	177806	150329	2700.4	-973.8	MMHOS
Sonde Error			-1.2	-223.6	MMHOS
Cond			5000.0	5000.0	MMHOS

Deep

	Measured R	Measured X	Calibrated R	Calibrated X	Units
Air	133235	125952	-0.9	0.3	MMHOS
Zero	131071	131057	0.0	0.0	MMHOS
Reference	248083	246596	2000.0	2000.0	MMHOS
Loop	183561	149497	1266.8	-452.3	MMHOS
Sonde Error			-6.5	-250.5	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

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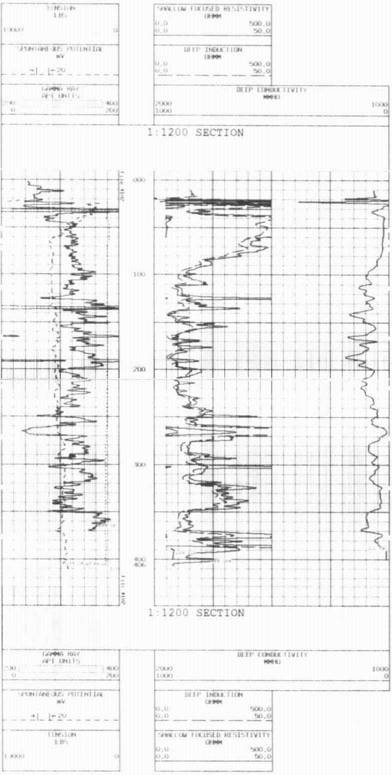
      Performed : 02-Feb-2009                  Time : 10:26
  Sensor Suite : SFL                             ID : PIT-CA-37

                                 Internal
                         Measured                 Calibrated
                      Zero     Reference         Zero     Reference      Units
  Im               32765.0       48792.8          0.0        7028.0      uA
  Ib               32768.0       49824.0          0.0        1750.0      mA
  MOM1             32752.7       56641.1          0.0         175.0      mV
  Equivalent SFL                                               43.97     OHMM

      Performed : 02-Feb-2009                  Time : 10:15
  Sensor Suite : P-SP                            ID : PIT-CA-37

                                 Internal
                   Measured                       Calibrated
                Zero     Reference               Zero     Reference      Units
             32785.0       58946.2                0.0        1000.0      mV

      Performed : 00-XXX-0000                  Time : 00:00
  Sensor Suite : P-RMUD                          ID : PIT-CA-37

                                 Internal
                         Measured                 Calibrated
                      Zero     Reference         Zero     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
```