217 - 22419

Tucker
WIRELINE SERVICES

DUAL INDUCTION RESISTIVITY LOG

! RELEASED ~~CONFIDENTIAL~~ Until 10-22-10

File No. : TUL-[illegible]
Company : RUNNING FOXES PETROLEUM, INC.
Well : EMMERSON 12-6D-INJ
Field : WILDCAT
County : VERNON
State : MISSOURI
Country : U.S.A.

RECEIVED
OCT 22 2009
Mo Oil & Gas Council

Location : PERMIT # 22419
1685' FSL & 1025' F

Sect : 06 Twp : 36N Rge : 33W

Recorded By : C. GREEVER
Witnessed By : G. BRATTON

Date : JUL 07 2009
Run No. : 1

Permanent Datum :	GL	
Drilling Measured From :	GL	
Log Measured From:	GL	
Above Permanent Datum :	0.00	FT
Depth--Driller :	375.0	FT
Depth--Logger :	375.0	FT
Bottom Log Interval :	374.0	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 :	5.625	IN

Unit No. : TRK 118
Location : TULSA

Elevations :
KB : FT
DF : FT
GL : 871.00 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 interpretations, 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/QT		
pH :	0.000			
Fluid Loss :	0.000	CC		
Salinity :	0.000	KPPM		
RM Source :	MEASURED			
RM :	9.500	OHMM at	65	F
RM at BHT :	8.341	OHMM at	75	F
RMF Source :	CALCULATED			
RMF :	8.075	OHMM at	65	F
RMF at BHT :	7.090	OHMM at	75	F

RMC Source : CALCULATED
RMC : 10.450 OHMM at 65 F
RMC at BHT : 9.175 OHMM at 75 F

Max Recorded Temp. : 75 F
Time Circulation Stopped : JUL 07 2009 @ 07:00
Operating Rig Time, Hrs. : 2.0

- Source Serial Numbers -

Gamma	317-49B
Neutron	21166B

- Sonde Serial Numbers -

GRTB	GRT-BC-43
CNT	CNP-AD-34
LDTNG	LDT-NG-002
PIT	PIT-AB-11

Casing Strings

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

- Comments -

ALL PRESENTATIONS AS PER CLIENTS REQUEST>

GRT, CNT, LDT AND PIT RUN IN COMBINATION.
CALIPERS ORIENTED IN X-Y AXIS
2.71 G/CC USED TO CALCULATE PORSITY
PHIN IS CALIPER CORRECTED
ANNULAR HOLE VOLUME CALCULATED USING 4.5'' PRODUCTION CASING

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

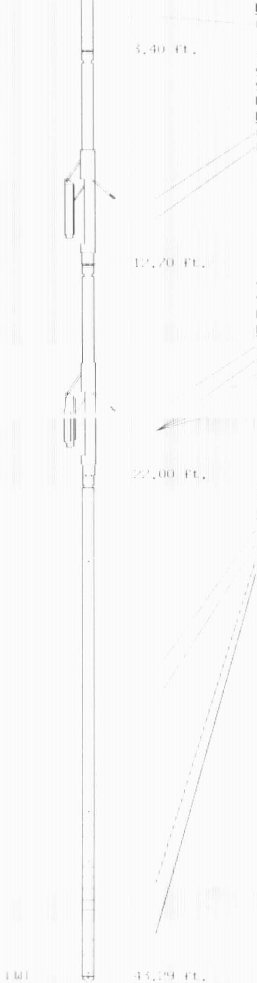
OPERATORS:
J. COLWILL
L. BARTO

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: 5.40 Ft. O.D.: [illegible] in.
Sonde ID : GRT BC 43



Measure Point	**Stack Offset**	**Tool Offset**	**Bottom Offset**
GRP	2.00	2.00	[illegible]

Tool: CNT **Length:** 9.30 ft. O.D.: [illegible] in.
Sonde ID : CNP 6B 34
Source ID : 211668
Pad ID : CNP 6B 34

Measure Point	**Stack Offset**	**Tool Offset**	**Bottom Offset**
CLCN	9.40	6.00	[illegible]
PHIN	10.24	6.84	[illegible]

Tool: LDING **Length:** 9.30 ft. O.D.: [illegible] in.
Sonde ID : LDT NG 002
Source ID : 317 498
Pad ID : LDT NG 002

Measure Point	**Stack Offset**	**Tool Offset**	**Bottom Offset**
CLLD	18.70	6.00	[illegible]
PEL	19.70	7.00	[illegible]
PES	20.10	7.40	[illegible]
LDEN	19.70	7.00	[illegible]
LCOR	19.70	7.00	[illegible]

Tool: PII **Length:** 21.29 ft. O.D.: [illegible] in.
Sonde ID : PII 6B 11

Measure Point	**Stack Offset**	**Tool Offset**	**Bottom Offset**
ILD	30.90	8.90	[illegible]
ILM	32.10	10.10	11.[illegible]
SFLU	34.49	12.49	[illegible]
SP	42.60	20.60	[illegible]

TENSION
LBS
10000 0

SPONTANEOUS POTENTIAL
mV
→| |← 20

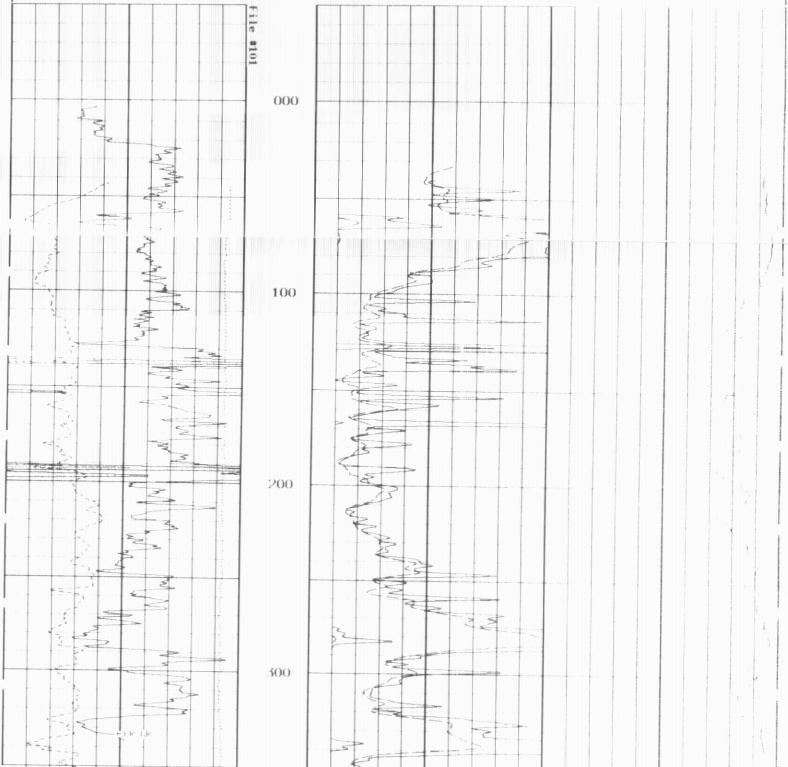
GAMMA RAY
API UNITS
200 400
0 200

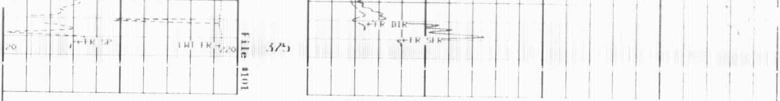
SHALLOW FOCUSED RESISTIVITY
OHMM
0.0 500.0
0.0 50.0

DEEP INDUCTION
OHMM
0.0 500.0
0.0 50.0

DEEP CONDUCTIVITY
MMHO
2000 1000
1000 0

1:600 SECTION





1:600 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

TENSION
LBS
10000 0

SPONTANEOUS POTENTIAL
mV
→| |← 20

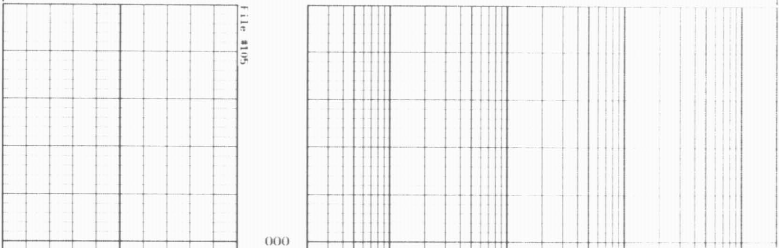
GAMMA RAY
API UNITS
200 400
0 200

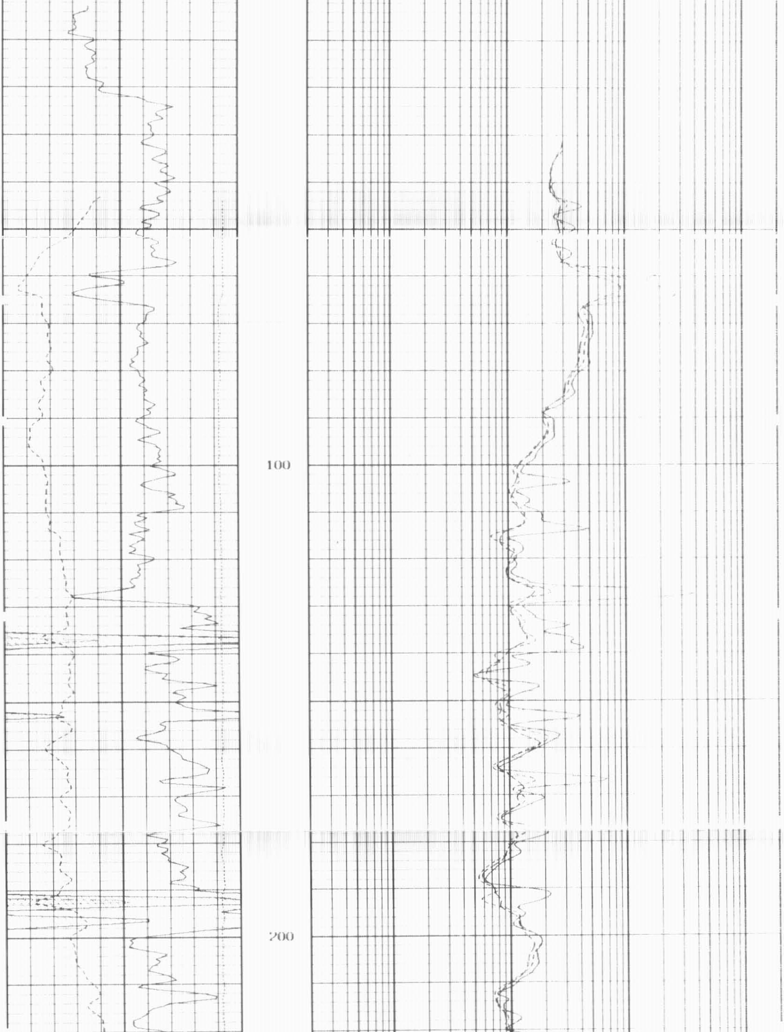
SHALLOW FOCUSED RESISTIVITY
OHMM
0.2 2000.0

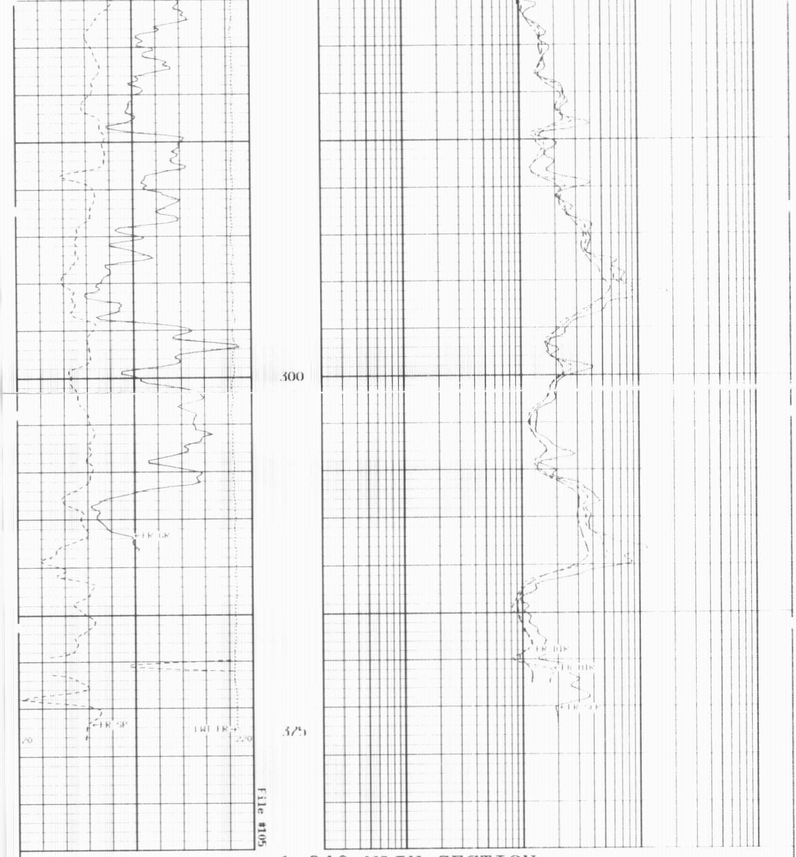
MEDIUM INDUCTION
OHMM
0.2 2000.0

DEEP INDUCTION
OHMM
0.2 [illegible]

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	5.625	IN
BHT Depth	325.000	F
Borehole Temperature	25.0	DEGF
Temperature Gradient	1.00	DEGF
Resistivity Of Mud	9.50	OHMM
Resistivity Of Mud Temperature	65.00	DEGF

TENSION
LBS
10000 0

SPONTANEOUS POTENTIAL
mV
→| |← 20

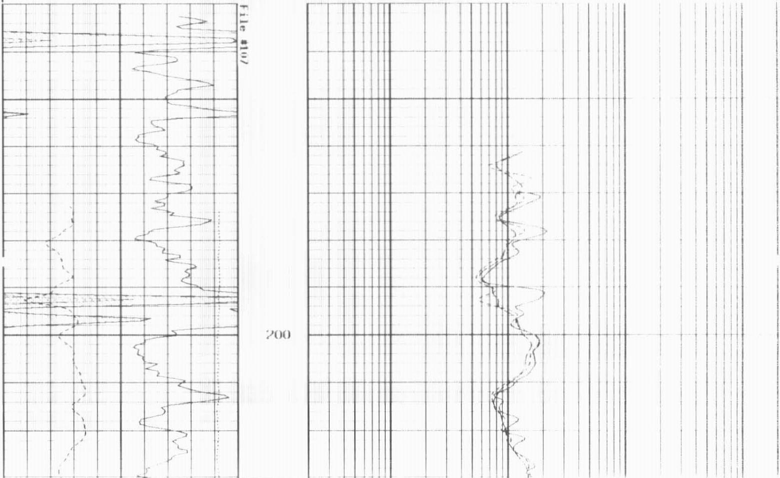
GAMMA RAY
API UNITS
200 400
0 200

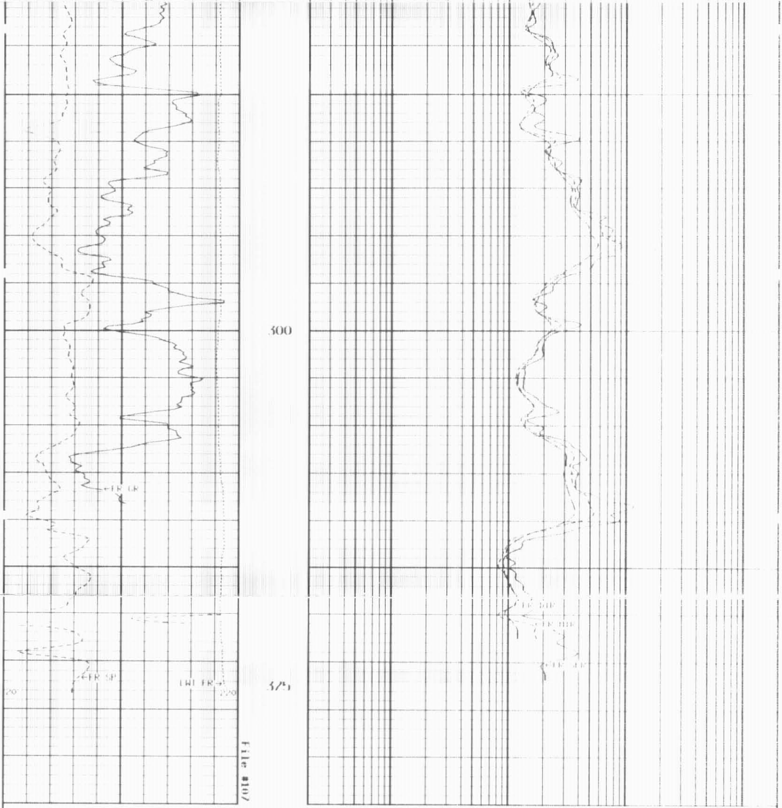
SHALLOW FOCUSED RESISTIVITY
OHMM
0.2 2000.0

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  !

    Drill Bit Size                                     5.625   IN
    BHT Depth                                        375.000   F
    Borehole Temperature                              75.0     DEGF
    Temperature Gradient                               1.00    DFHF
    Resistivity Of Mud                                 9.50     OHMM
    Resistivity Of Mud Temperature                    65.00     DEGF
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                       * Calibration Summary *

                          Shop Calibration
                                GRIB
    Performed : 24 Apr 2008               Time : 10:15
 Sensor Suite : GR GR5                      ID : GRI 1B 45

                  Measured      Units         Calibrated        Unit
        Background        Jig                     Jig
GR               41        314     CPS              175           GAPI

                          Shop Calibration
                                PII
    Performed : 22 May 2009               Time : 10:40
 Sensor Suite : P IND I                     ID : PII 6B 11

                               Medium
                 Measured                      Calibrated
                 R        X                    R            X        Unit
Air            131379   129999                0.2          0.4       MMHO
Zero           131066   131020                0.0          0.0       MMHO
Reference      251089   249776             5000.0       5000.0       MMHO
Loop           152000   173857             2707.1        988.2       MMHO
Sonde Error                                   8.8         52.8       MMHO
Total                                      5000.0       5000.0       MMHO

                                Deep
                 Measured                      Calibrated
                 R        X                    R            X        Unit
Air            128182   132557                0.2          0.3       MMHO
Zero           131080   131073                0.0          0.0       MMHO
Reference      235183   234973             2000.0       2000.0       MMHO
Loop           149010   127782             1350.3        461.7       MMHO
Sonde Error                                  10.0         56.0       MMHO
Total                                      2000.0       2000.0       MMHO

                             Temperature
                 Measured                      Calibrated
                 Low      High                 Low          High     Unit
              16980.0 56920.0                 70.0         350.0     DEGF

    Performed : 22 May 2009               Time : 10:35
 Sensor Suite : SN                          ID : PII 6B 11

                               Internal
                    Measured                   Calibrated
                 Zero     Reference          Zero     Reference      Unit
Im             32760.4     49632.3            0.0       2028.0       uA
Ib             32776.0     48848.4            0.0       1750.0       uA
MOM1           32798.6     57216.8            0.0        175.0       mV
Equivalent SN                                            43.97       OHMM

    Performed : 22 May 2009               Time : 10:33
 Sensor Suite : P SP                        ID : PII 6B 11

                               Internal
              Measured                         Calibrated
           Zero     Reference                Zero     Reference      Unit
         32790.8      58950.0                 0.0       1000.0       mV
```

TENSION
LBS
10000 0

SHALLOW FOCUSED RESISTIVITY
OHMM
0.0 500.0
0.0 50.0

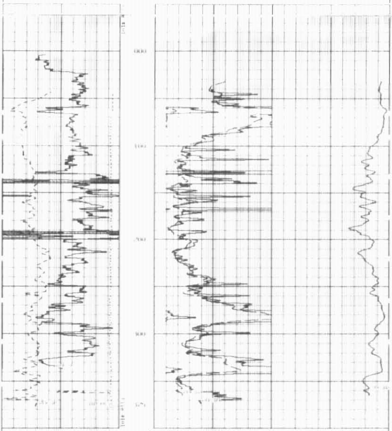
SPONTANEOUS POTENTIAL
mV
-| |+20

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

1:1200 SECTION



1:1200 SECTION

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