217-22379

Tucker WIRELINE SERVICES

DUAL INDUCTION RESISTIVITY LOG

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

File No. : TUL-54817
Company : RUNNING FOXES PETROLEUM, INC.
Well : EMMERSON #12-6D-4
Field : WILDCAT
County : VERNON
State : MISSOURI
Country : U.S.A.

RECEIVED
OCT 22 2009

Location : PERMIT # 22379
1520' FSL & 1200' FWL
SE NW SW
Sect : 06 Twp : 36N Rge : 33W

Mo Oil & Gas Council

Recorded By : R. FRANKLIN
Witnessed By : G. BRATTON

Date : JUL 10 2009
Run No. : 1

Permanent Datum :	GL	
Drilling Measured From :	GL	
Log Measured From:	GL	
Above Permanent Datum :	0.00	FT
Depth--Driller :	428.0	FT
Depth--Logger :	428.0	FT
Bottom Log Interval :	427.0	FT
Top Log Interval :	20.0	FT
Casing Depth--Driller:	20.0	FT
Casing Depth--Logger :	20.0	FT
Casing Diameter :	8.625	IN
Bit Size :	5.875	IN

Unit No. : 123
Location : TULSA

Elevations :

KB :		FT
DF :		FT
GL :	873.00	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 :	FRESH / 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 :	10.000	OHMM at	82	F
RM at BHT :	10.720	OHMM at	76	F

RMF Source :	CALCULATED			
RMF :	8.500	OHMM at	82	F
RMF at BHT :	9.110	OHMM at	76	F
RMC Source :	CALCULATED			
RMC :	11.500	OHMM at	82	F
RMC at BHT :	12.330	OHMM at	76	F
Max Recorded Temp. :			76	F
Time Circulation Stopped :				
Operating Rig Time, Hrs. :			1.5	

- Source Serial Numbers -

Gamma	2991GW
Neutron	N-1046

- Sonde Serial Numbers -

GRTB	GRT-BC-41
CNT	CNP-AA-112
LDT	LDP-BA-14
PIT_B	PIT-BA-21

Casing Strings

Size (IN)	Weight (LB/FT)	Bottom (FT)
8.625	40.00	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 2.875" PRODUCTION CASING.

GRT: GRP.
CNT: PHIN, CLCNIN.
LDT: PORL, LCOR, PECL, CLLDIN, LDEN, PORLLS.
PIT: ILD, ILM, CIRD, SFLAEC, SPU

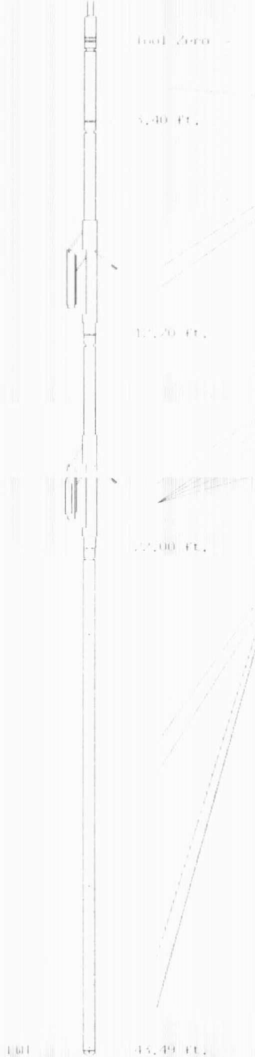
OPERATORS:

S. DAVIS

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 BB 41

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 112
Source ID : N 1046
Pad ID : CNP AA 112

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

Tool: LDT Length: 9.30 ft. O.D.: 4.30 in.
Sonde ID : LDP BA 14
Source ID : 2991GW
Pad ID : LDP BA 14

Measure Point	Stack Offset	Tool Offset	Bottom Offset
CLLD	18.70	6.00	24.79
PE	19.94	7.24	23.55
PES	19.94	7.24	23.55
LDEN	19.94	7.24	23.55
[illegible]	19.94	7.24	23.55

Tool: PIT Length: 21.49 ft. O.D.: 3.62 in.
Sonde ID : PIT BA 21

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

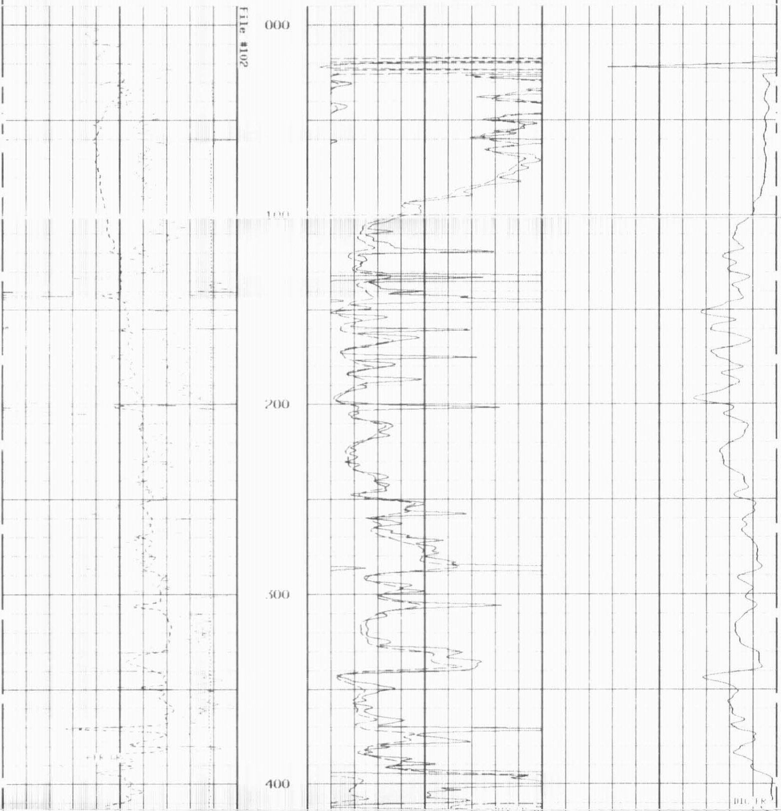
GAMMA RAY
API UNITS
200 400
0 200

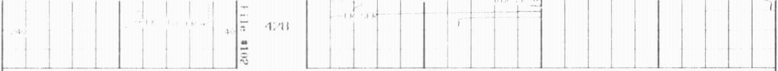
SHALLOW FOCUSED RESISTIVITY
OHMM
0.0 500.0
0.0 50.0

DEEP INDUCTION
OHMM
0.0 500.0
0.0 50.0

DEEP CONDUCTIVITY
MMHO
2000 1000
1000 0

1:600 SECTION





1:600 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

TENSION
LBS
10000 0

SHALLOW FOCUSED RESISTIVITY
OHMM
0.2 2000.0

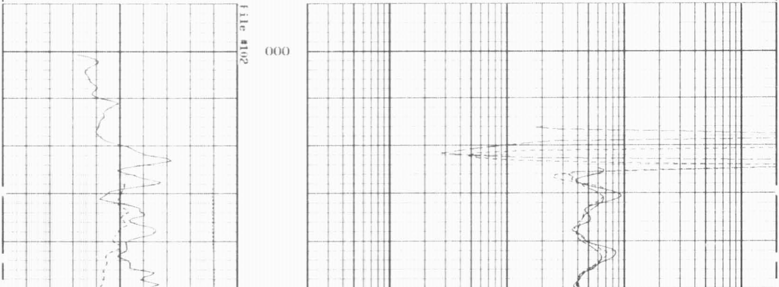
SPONTANEOUS POTENTIAL
mV
→| |← 20

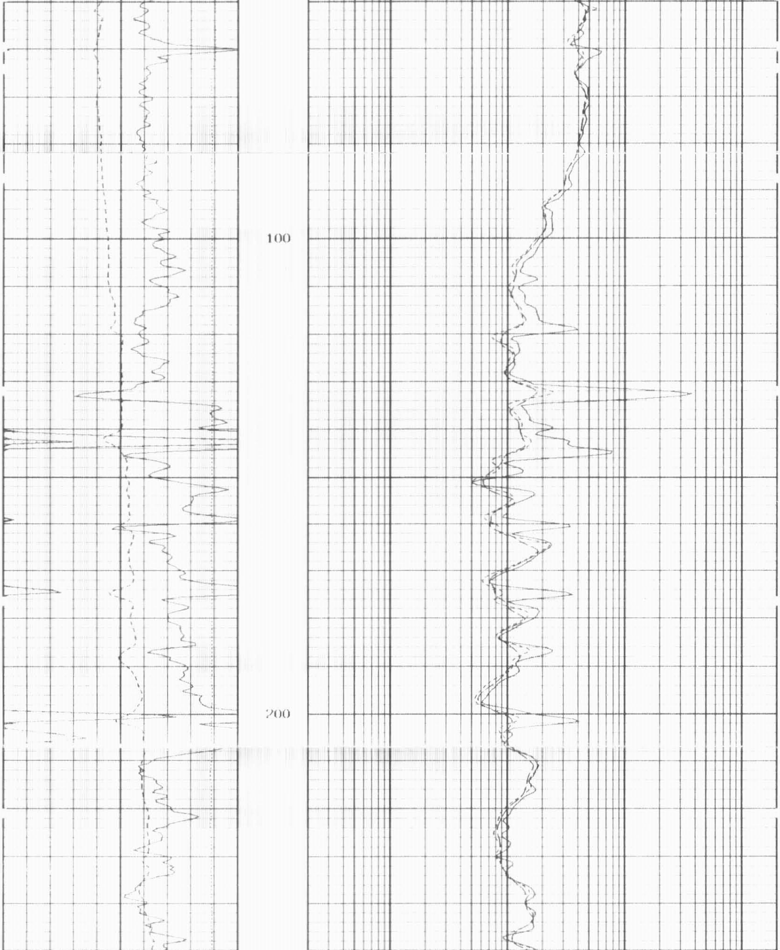
MEDIUM INDUCTION
OHMM
0.2 2000.0

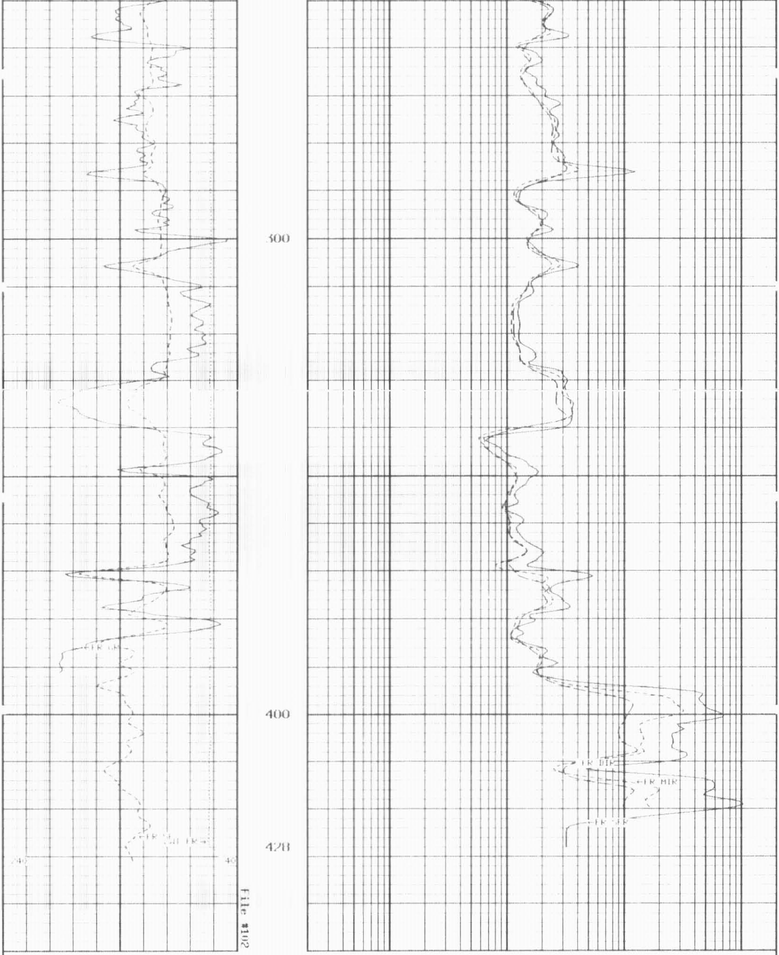
GAMMA RAY
API UNITS
200 400
0 200

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 9999.0 to 0.0 F

Drill Bit Size	5.875	IN
BHT Depth	498.000	F
Borehole Temperature	76.0	DEGF
Temperature Gradient	1.00	DEHF
Resistivity Of Mud	10.00	OHMM
Resistivity Of Mud Temperature	82.00	DEGF

TENSION
LBS
10000 0

SHALLOW FOCUSED RESISTIVITY
OHMM
0.2 2000.0

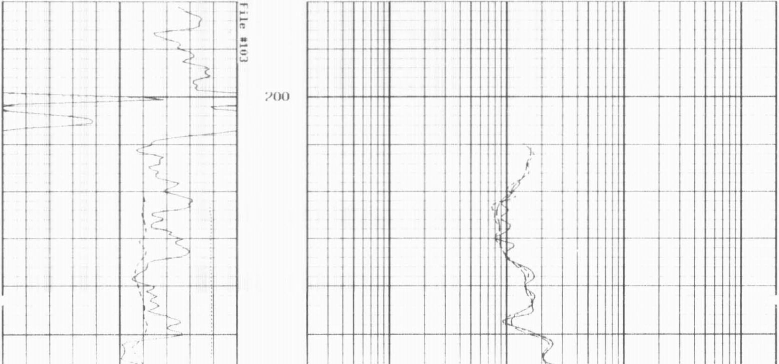
SPONTANEOUS POTENTIAL
mV
→| |← 20

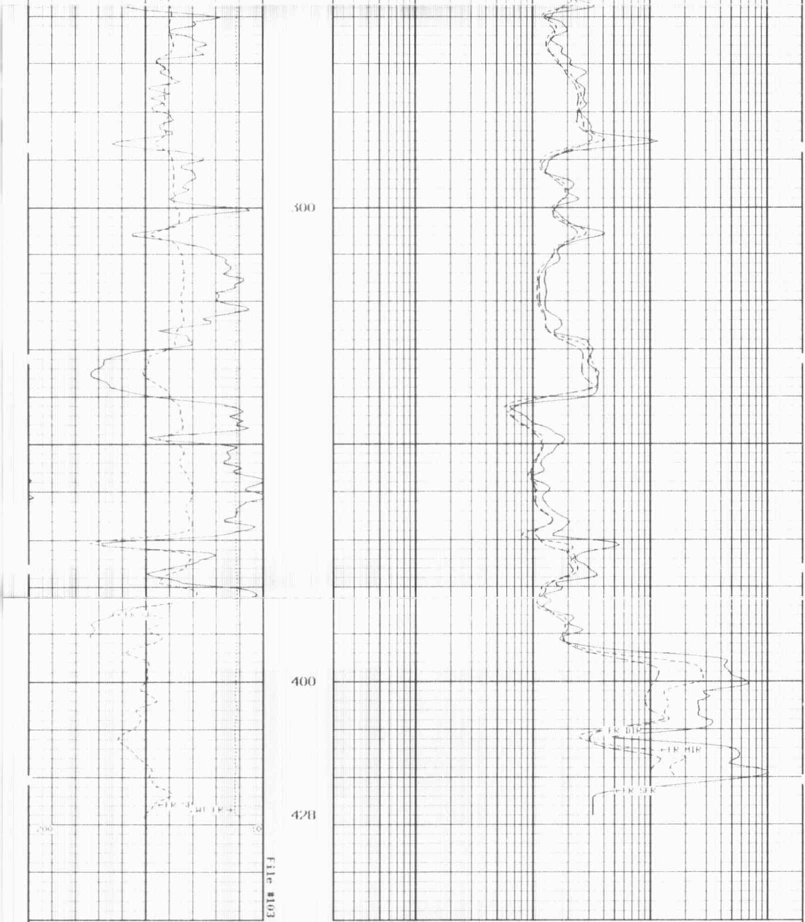
MEDIUM INDUCTION
OHMM
0.2 2000.0

GAMMA RAY
API UNITS
200 400
0 200

DEEP INDUCTION
OHMM
0.2 2000.0

1:240 REPEAT SECTION





1:240 REPEAT SECTION

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            GAMMA RAY                                                 DEEP INDUCTION
            API UNITS                                                     OHMM
200                         400
 0                          200        0.2                                                      2000.0

    SPONTANEOUS POTENTIAL                                            MEDIUM INDUCTION
             mV                                                           OHMM

          →|    |← 20                  0.2                                                      2000.0

           TENSION                                             SHALLOW FOCUSED RESISTIVITY
             LBS                                                          OHMM

10000                         0        0.2                                                      2000.0
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                          * Borehole Zone Factors *

                  Zone 1    99999.0   to     0.0  F

     Drill Bit Size                                   5.875   IN
     BHT Depth                                      438.000   F
     Borehole Temperature                             76.0    DEGF
     Temperature Gradient                             1.00    DEHF
     Resistivity Of Mud                              10.00     OHMM
     Resistivity Of Mud Temperature                  82.00     DEGF
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                          * Calibration Summary *

                            Shop Calibration
                                  GRTB
      Performed : 24 Apr 2008                  Time : 10:49
   Sensor Suite : GR GR5                         ID : GRT BC 41

                          Measured        Units        Calibrated          Units
              Background        Jig                       Jig
 GR                   43        337     CPS               175              GRAPI

                            Shop Calibration
                                  PIT B
      Performed : 26 May 2009                  Time : 10:18
   Sensor Suite : P IND 1                        ID : PIT BA 21

                                 Medium
                      Measured                  Calibrated
                      R        X                R            X         Units
 Air             131278   130106              0.3          0.6         MMHOS
 Zero            131067   131068              0.0          0.0         MMHOS
 Reference       249585   248850           5000.0       5000.0         MMHOS
 Loop            151423   173632           2698.0        998.5         MMHOS
 Sonde Error                                  0.7          4.7         MMHOS
 Gain                                      5000.0       5000.0         MMHOS

                                  Deep
                      Measured                  Calibrated
                      R        X                R            X         Units
 Air             128818   131563              0.3          0.2         MMHOS
 Zero            130804   131067              0.0          0.0         MMHOS
 Reference       232678   231483           2000.0       2000.0         MMHOS
 Loop            149239   174966           1265.7        463.4         MMHOS
 Sonde Error                                  3.0          0.3         MMHOS
 Gain                                      2000.0       2000.0         MMHOS

                              Temperature
                      Measured                  Calibrated
```

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          Low      High                     Low       High      Units
        16880.0 56920.0                     70.0      150.0     DEGF

   Performed : 26 May 2009              Time : 10:15
Sensor Name : SH                           ID : P11 B6 21

                              Internal
              Measured                       Calibrated
              Zero     Reference       Zero      Reference      Units
Im          32769.9     50381.9        0.0         7028.0      mA
Ib          32768.4     50624.2        0.0         1750.0      mA
MOM1        32768.2     58261.4        0.0          175.0      mV
Equivalent SH                                       43.97      OHMM

   Performed : 26 May 2009              Time : 10:02
Sensor Name : P SP                         ID : P11 B6 21

                              Internal
          Measured                           Calibrated
          Zero    Reference                Zero      Reference      Units
      32787.2     58921.3                  0.0         1000.0      mV

   Performed : 26 MAY 2009              Time : 11:12
Sensor Name : P RMUD                       ID : P11 B6 21

                              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
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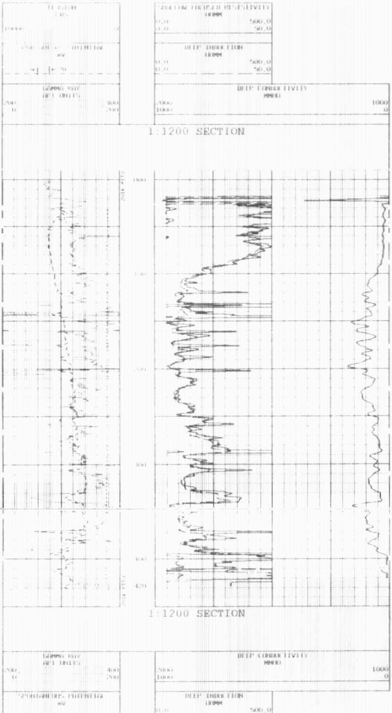

TENSION
LBS

10000	0

SHALLOW FOCUSED RESISTIVITY
OHMM

[illegible]	[illegible]
[illegible]	[illegible]