217-22378

Tucker
WIRELINE SERVICES

DUAL INDUCTION RESISTIVITY LOG

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

RECEIVED
OCT 22 2009
Mo Oil & Gas Council

File No.	TUL-54818
Company	RUNNING FOXES PETROLEUM, INC.
Well	EMMERSON #12-6D-3
Field	WILDCAT
County	VERNON
State	MISSOURI
Country	U.S.A.

Location : PERMIT # 22378
1520' FSL & 870' FWL
SE NW SW

Sect : 06 Twp : 36N Rge : 33W

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 :	21.0	FT
Casing Depth--Driller:	20.0	FT
Casing Depth--Logger :	21.0	FT
Casing Diameter :	8.625	IN
Bit Size :	5.875	IN

Unit No. : 123
Location : TULSA

Elevations :

KB :		FT
DF :		FT
GL :	874.00	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	84	F
RM at BHT :	10.800	OHMM at	77	F
RMF Source :	CALCULATED			
RMF :	8.500	OHMM at	84	F
RMF at BHT :	9.200	OHMM at	77	F
RMC Source :	CALCULATED			
RMC :	11.500	OHMM at	84	F
RMC at BHT :	12.460	OHMM at	77	F

Max Recorded Temp. : 77 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

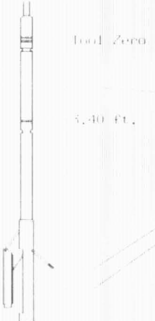
OPERATORS:

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 243.00 lbs.

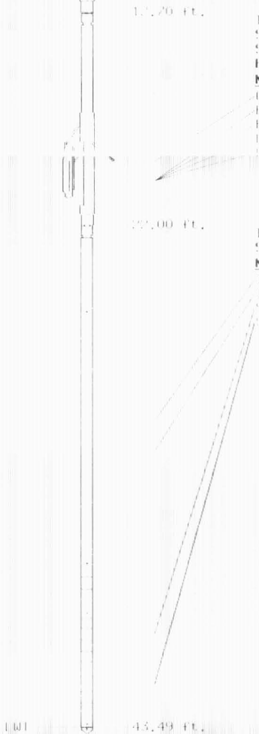


Tool: GRTB **Length:** 3.40 ft. **O.D.:** 3.60 in.
Sonde ID : GRT-BC-41

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
LLLD	18.70	6.00	24.79
PEI	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: PII Length: 21.49 ft. O.D.: 3.62 in.
Sonde ID : PII 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

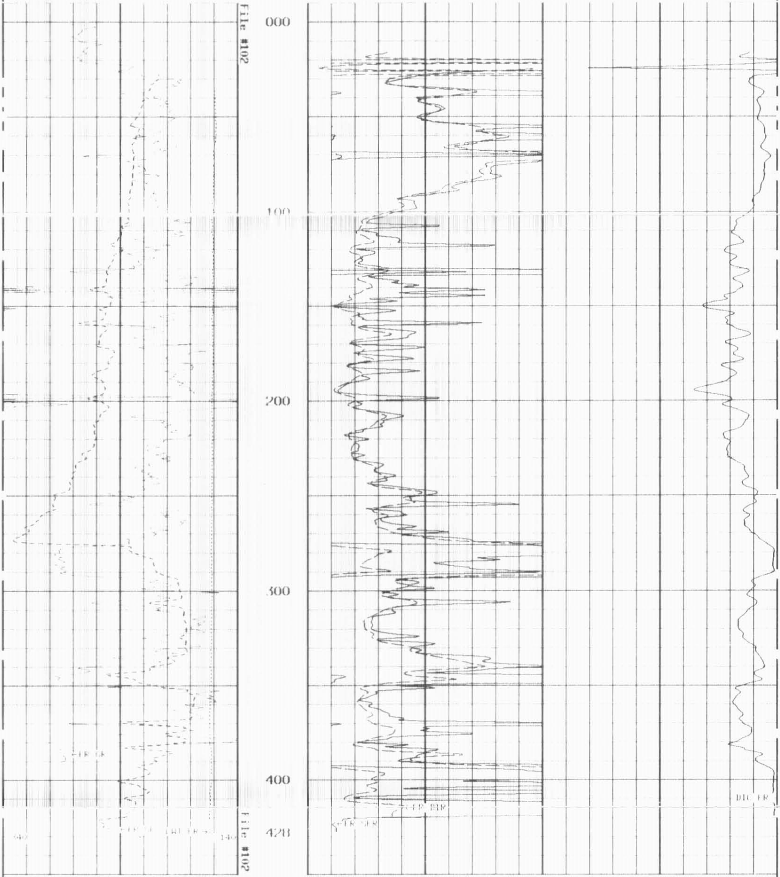
GAMMA RAY
API UNITS
200 400
0 200

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

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

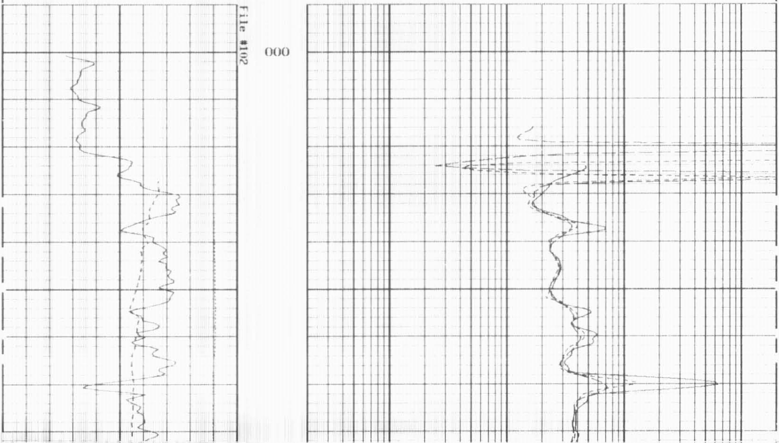
GAMMA RAY
API UNITS
200 400
0 200

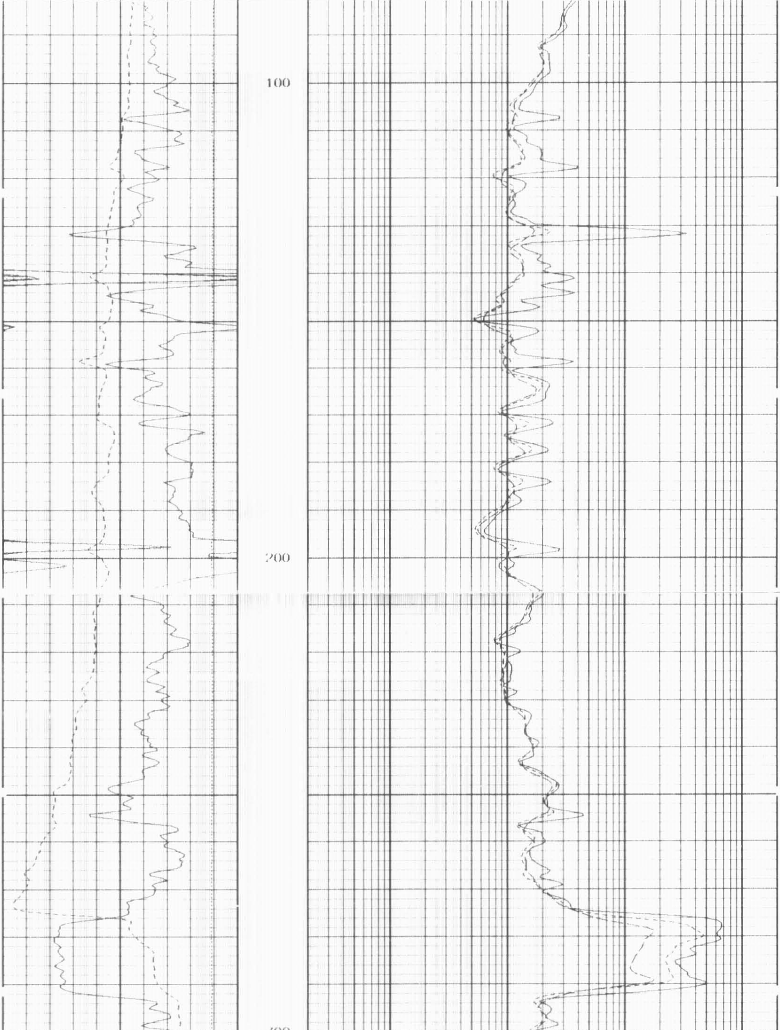
SHALLOW FOCUSED RESISTIVITY
OHMM
0.2 2000.0

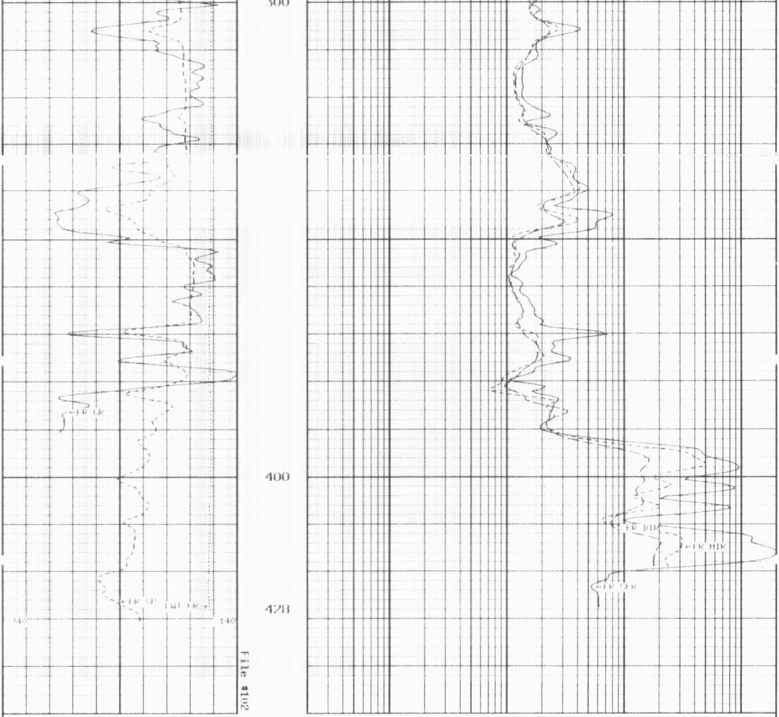
MEDIUM INDUCTION
OHMM
0.2 2000.0

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

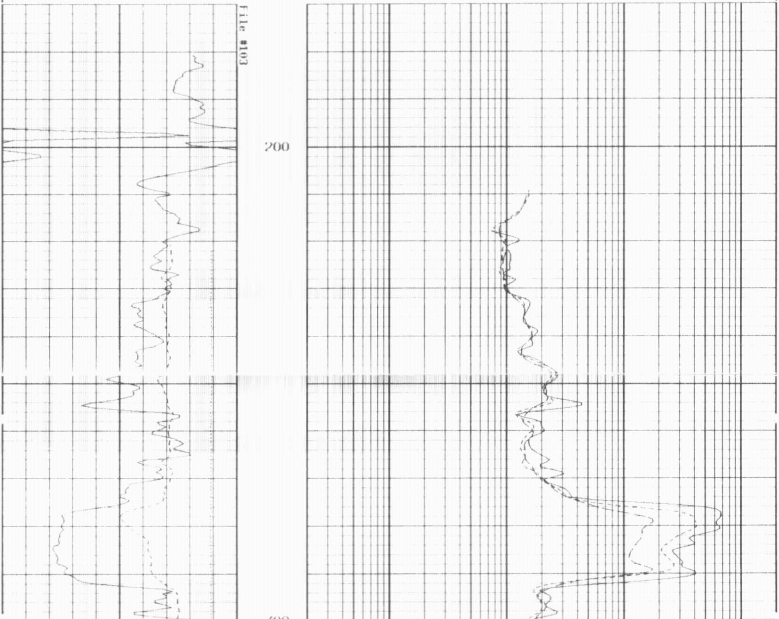
* Borehole Zone Factors *

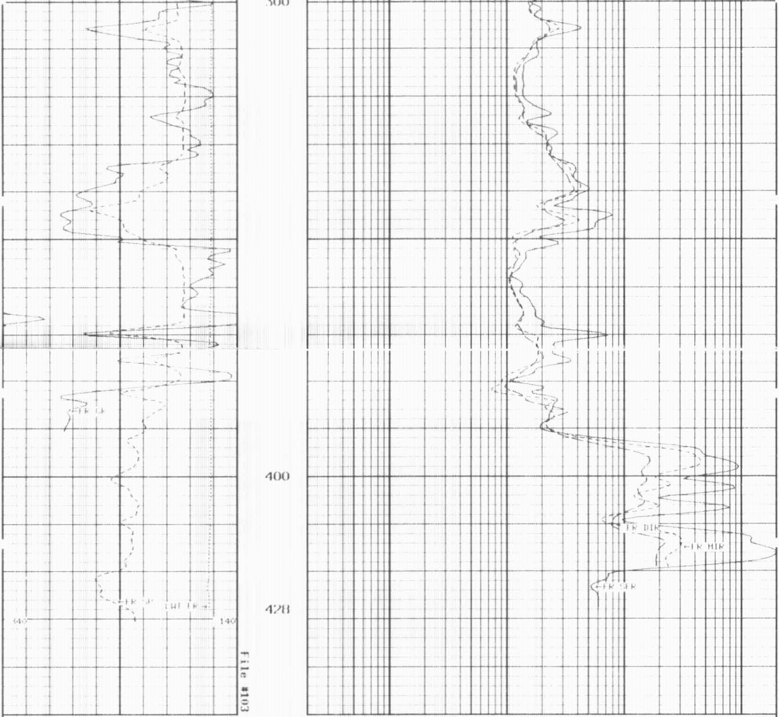
Zone 1 99999.0 to 0.0 F

Drill Bit Size	5.875	IN
BHT Depth	428.000	F
Borehole Temperature	22.0	DEGF
Temperature Gradient	1.00	DEHF
Resistivity Of Mud	10.00	OHMM
Resistivity Of Mud Temperature	84.00	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

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

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                    * Borehole Zone Factors *

              Zone 1   99999.0  to    0.0  F

   Drill Bit Size                                  5.875  IN
   BHT Depth                                     420.000  F
   Borehole Temperature                             72.0    DEGF
   Temperature Gradient                             1.00    DEHF
   Resistivity Of Mud                              10.00     OHMM
   Resistivity Of Mud Temperature                  88.00     DEGF


                     * Calibration Summary *

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

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

                        Shop Calibration
                              PII B
   Performed : 26 May 2009               Time : 10:18
Sensor Suite : P IND 1                     ID : PII 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   249485  248850             5000.0     5000.0       MMHOS
Loop        151425  123632             2698.0      998.5       MMHOS
Sonde Error                               0.2        4.7       MMHOS
Cond                                   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  124966             1265.2      463.4       MMHOS
Sonde Error                               3.0        0.3       MMHOS
Cond                                   2000.0     2000.0       MMHOS

                           Temperature
               Measured                    Calibrated
               Low     High                Low        High     Units
           16980.0 56920.0                20.0       550.0     DEGF

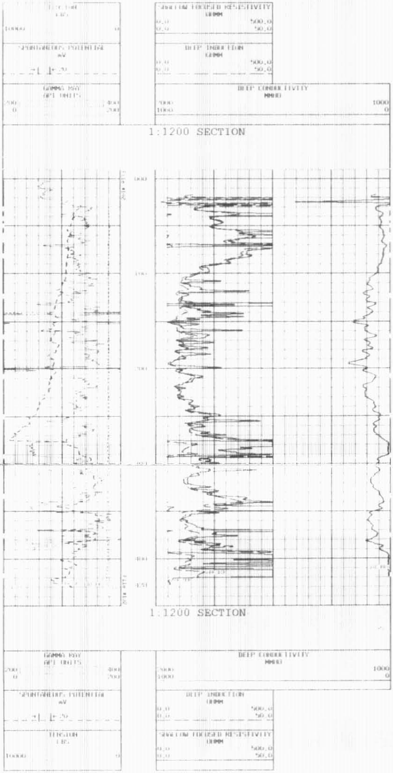
   Performed : 26 May 2009               Time : 10:13
Sensor Suite : SH                          ID : PII BA 21

                            Internal
                 Measured                  Calibrated
              Zero     Reference         Zero     Reference    Units
Im          32769.9     50381.9           0.0       2028.0     uA
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 Suite : P SP                        ID : PII BA 21

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

   Performed : 26 May 2009               Time : 11:17
Sensor Suite : RMUD                        ID : PII BA 21

                            Internal
                 Measured                  Calibrated
              Zero     Reference         Zero     Reference    Units
Rmi             0.0     34825.0           0.0        290.6     mA
Rmv             0.0     34835.0           0.0        290.6     mV
Equivalent Rm                                       0.0821     OHMM
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