217-22423

Tucker
WIRELINE SERVICES

DUAL INDUCTION RESISTIVITY LOG

! CONFIDENTIAL

until 10 22 -10

RECEIVED
OCT 22 2009
Mo Oil & Gas Council

File No. : [illegible]
Company : RUNNING FOXES PETROLEUM, INC.
Well : EMMERSON #11-SC-3
Field : WILDCAT
County : VERNON
State : MISSOURI
Country : U.S.A.

Location : PERMIT # [illegible]
[illegible] FSL & [illegible] FWL
SW NE SW

Sect : 26 Twp : 36N Rge : 33W

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

Date : JUL 09 2009
Run No. : 1

Permanent Datum :	GL	
Drilling Measured From :	GL	
Log Measured From:	GL	
Above Permanent Datum :	[illegible]	FT
Depth--Driller :	[illegible]	FT
Depth--Logger :	[illegible]	FT
Bottom Log Interval :	[illegible]	FT
Top Log Interval :	[illegible]	FT
Casing Depth--Driller:	[illegible]	FT
Casing Depth--Logger :	[illegible]	FT
Casing Diameter :	[illegible]	IN
Bit Size	[illegible]	IN

Unit No. [illegible]
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 interpretations, 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 :	9.900	OHMM at	88	F
RM at BHT :	10.692	OHMM at	81	F
RMF Source :	CALCULATED			
RMF :	8.415	OHMM at	88	F
RMF at BHT :	9.087	OHMM at	81	F
RMC Source :	CALCULATED			
RMC :	11.385	OHMM at	88	F
RMC at BHT :	12.296	OHMM at	81	F

Max Recorded Temp. : 81 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
J. COLWILL

THANK YOU FOR USING TUCKER WIRELINE SERVICES!

Tool String Schematic

Total Tool Length 45.[illegible] ft.
Maximum Outside diameter 4.00 in.
Net Weight in Air 245.00 lbs.

Tool Zero
5.40 ft.

Tool: GRTB Length: [illegible] ft. O.D.: [illegible] in.
Sonde ID : GRT-BC-41

Measure Point	Stack Offset	Tool Offset	Bottom Offset
GRP	[illegible]	[illegible]	41.[illegible]

Tool: CNT Length: [illegible] ft. O.D.: [illegible] in.
Sonde ID : CNP-AA-112
Source ID : N-1046
Pad ID : CNP-AA-112

12,20 ft.
22,00 ft.
TDD
43,49 ft.

Measure Point	Stack Offset	Tool Offset	Bottom Offset
CCCN	9,40	6,00	34,09
PHIN	10,54	7,14	32,95

Tool: LDT Length: 9,80 ft. O.D.: 4,80 in.
Sonde ID : LDP No 14
Source ID : 2931GW
Pad ID : LDP No 14

Measure Point	Stack Offset	Tool Offset	Bottom Offset
CCCD	18,20	6,00	25,29
PEL	19,94	7,74	23,55
PES	19,94	7,74	23,55
LBED	19,94	7,74	23,55
CCOR	19,94	7,74	23,55

Tool: DIT Length: 21,49 ft. O.D.: 3,87 in.
Sonde ID : DIT No 21

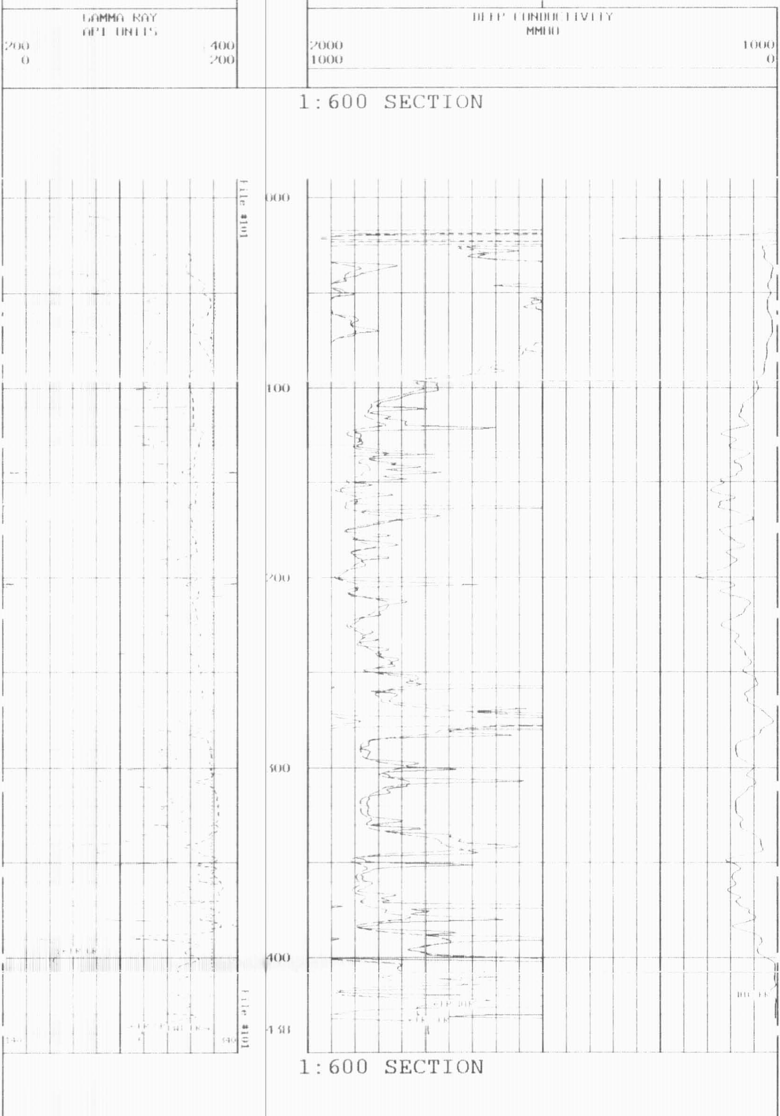
Measure Point	Stack Offset	Tool Offset	Bottom Offset
ILD	30,93	8,93	12,56
ILM	32,10	10,10	11,39
SFLU	39,49	17,49	4,00
SP	42,61	20,60	0,88

TENSION LBS	
10000	0

SPONTANEOUS POTENTIAL
mV
→| |← 20

SHALLOW FOCUSED RESISTIVITY OHMM	
0,0	500,0
0,0	50,0

DEEP INDUCTION OHMM	
0,0	500,0
0,0	50,0



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

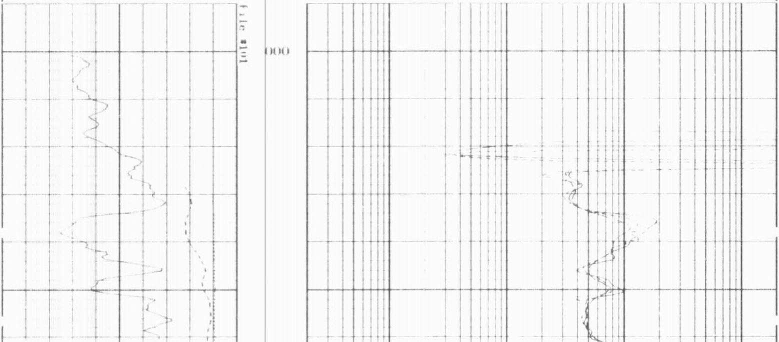
GAMMA RAY
API UNITS
200 400
0 200

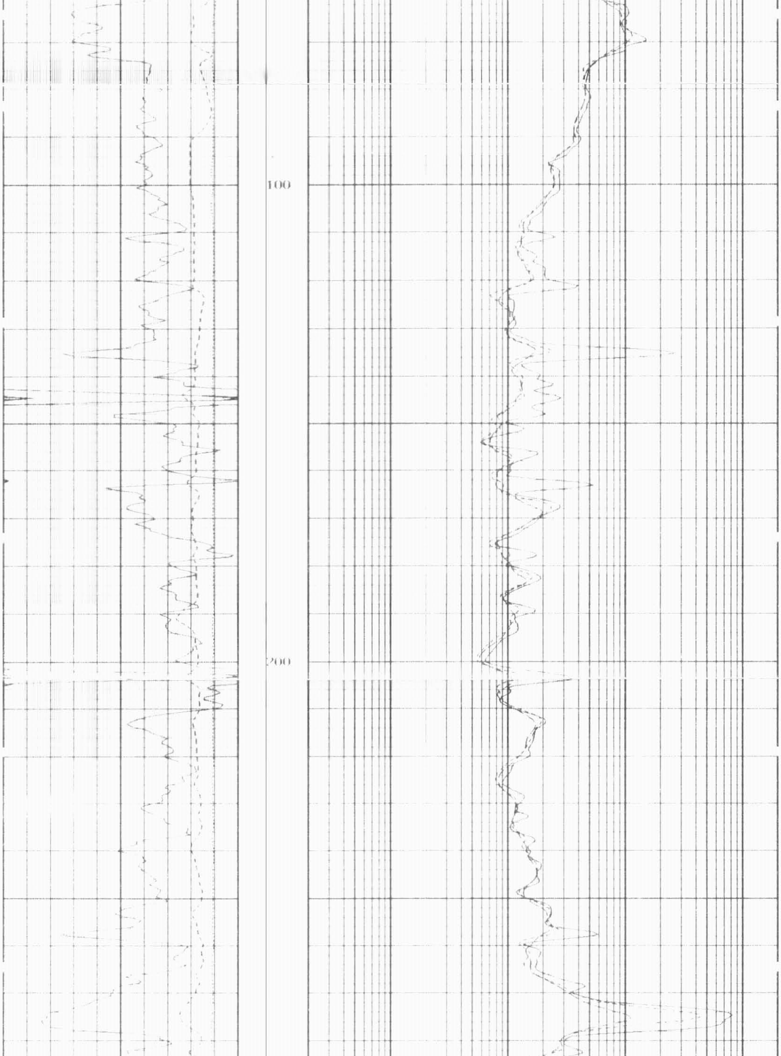
SHALLOW FOCUSED RESISTIVITY
OHMM
0.2 2000.0

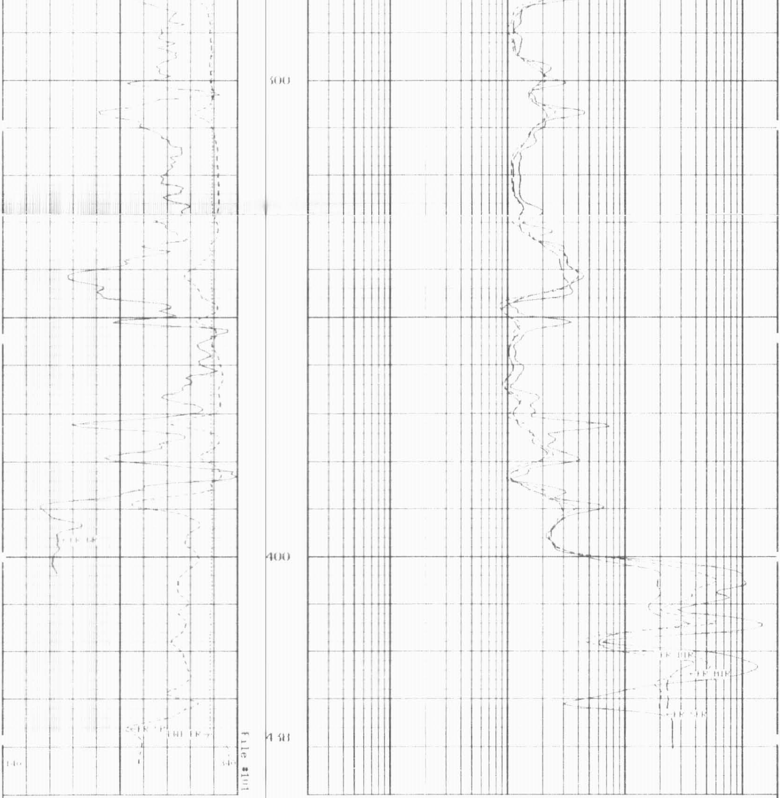
MEDIUM INDUCTION
OHMM
0.2 2000.0

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	450.000 F
Borehole Temperature	11.0 DEGC
Temperature Gradient	1.00 DEGM
Resistivity Of Mud	5.50 OHMM
Resistivity Of Mud Temperature	18.00 DEGC

TENSION
LBS
10000 0

SPONTANEOUS POTENTIAL
mV
→ |← 20

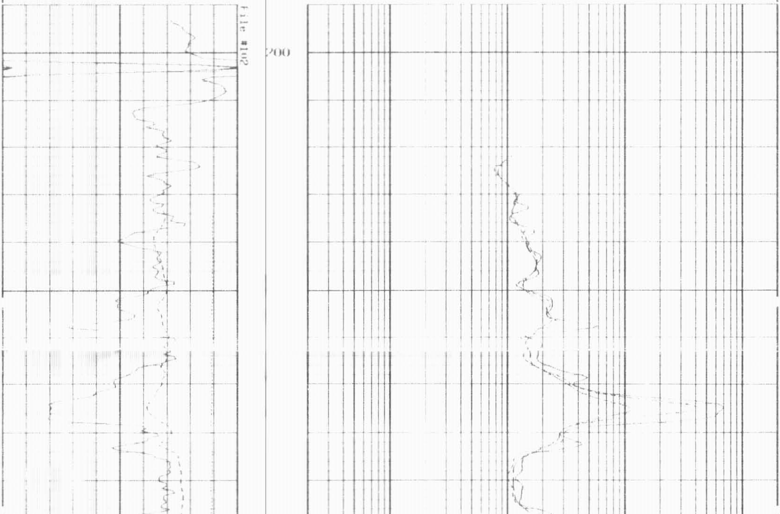
GAMMA RAY
API UNITS
200 400
0 200

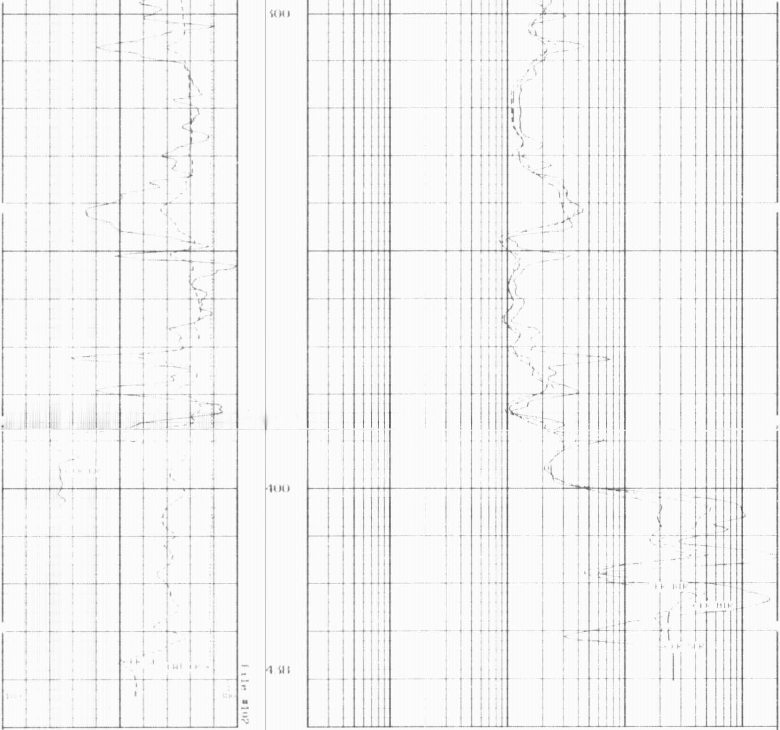
SHALLOW FOCUSED RESISTIVITY
OHMM
0.2 2000.0

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

   Initial Bit Size                                 [illegible]  IN
   BHT Depth                                        [illegible]  F
   Borehole Temperature                             [illegible]  DEGF
   Temperature Gradient                             [illegible]  [illegible]
   Resistivity Of Mud                               [illegible]  OHMM
   Resistivity Of Mud Temperature                   [illegible]  DEGF
```

* Calibration Summary *

```
                          Shop Calibration
                                GRIB
   Performed : 24 Apr 2008                 Time : 10:4[illegible]
Session Source : [illegible]                  ID : [illegible]

                    Measured      Units       Calibrated       Unit
        Background        Bkg                    Bkg
[illegible]             43         337     [illegible]         1[illegible]5       [illegible]
```

```
                          Shop Calibration
                                PIL B
   Performed : 26 May 2009                 Time : 10:1[illegible]
Session Source : [illegible]                  ID : [illegible]

                               Medium
                    Measured                       Calibrated
                    [illegible]                    [illegible]              Unit
[illegible]      1[illegible]  1[illegible]     [illegible]    [illegible]    MMHOS
Zero             1[illegible]  1[illegible]     0,0            0,0            MMHOS
Reference        [illegible]   [illegible]      5000,0         5000,0         MMHOS
Loop             1[illegible]  1[illegible]     [illegible]    [illegible]    MMHOS
Sonde Error                                     0,2            4,2            MMHOS
Final                                           5000,0         5000,0         MMHOS

                                Deep
                    Measured                       Calibrated
                    [illegible]                    [illegible]              Unit
Air              1[illegible]  1[illegible]     [illegible]    [illegible]    MMHOS
Zero             1[illegible]  1[illegible]     0,0            0,0            MMHOS
Reference        [illegible]   [illegible]      [illegible]    [illegible]    MMHOS
Loop             1[illegible]  1[illegible]     [illegible]    [illegible]    MMHOS
Sonde Error                                     [illegible]    [illegible]    MMHOS
Final                                           [illegible]    [illegible]    MMHOS

                             Temperature
                    Measured                       Calibrated
                    Low        High                Low          High       Unit
                 [illegible]  [illegible]          [illegible]  [illegible]  DEGF

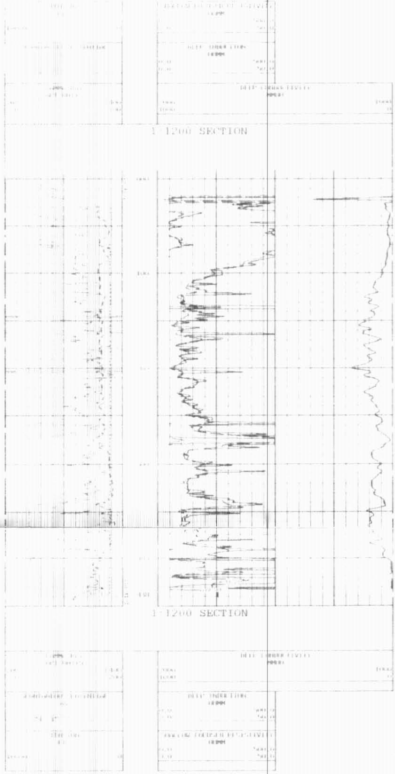
   Performed : 26 May 2009                 Time : 10:1[illegible]
Session Source : [illegible]                  ID : [illegible]

                              Internal
                      Measured                     Calibrated
                   Zero      Reference          Zero     Reference        Unit
Im               [illegible]  [illegible]       0,0      [illegible]      mA
Iv               [illegible]  [illegible]       0,0      [illegible]      mA
MOMI             [illegible]  [illegible]       0,0      [illegible]      mV
Equivalent SH                                            [illegible]      OHMM

   Performed : 26 May 2009                 Time : 10:2[illegible]
Session Source : [illegible]                  ID : [illegible]

                              Internal
                 Measured                          Calibrated
             Zero      Reference                Zero     Reference        Unit
          [illegible]  [illegible]              0,0      [illegible]      mV

   Performed : 26 May 2009                 Time : 11:12
Session Source : [illegible]                  ID : [illegible]

                              Internal
                      Measured                     Calibrated
                   Zero      Reference          Zero     Reference        Unit
Rmi                0,0       [illegible]        0,0      [illegible]      mA
Rmv                0,0       [illegible]        0,0      [illegible]      mV
Equivalent Rm                                            0,0871           OHMM
```