217- # 22431

Tucker
WIRELINE SERVICES

COMPENSATED NEUTRON
PEL DENSITY LOG

CONFIDENTIAL
tell 11/22/11

RECEIVED
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Mo Oil & Gas Council

File No. : TWL-35629
Company : RUNNING FOXES PETROLEUM INC.
Well : STONER 11-6B-3
Field :
County : VERNON
State : MISSOURI
Country : USA

Location : PERMIT: 22431
[illegible] FSL & [illegible] FWL

Sect : 6 Twp : 36N Rge : 33W

Recorded By : B.BAILEY
Witnessed By : G.BRATTON

Date : [illegible]
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 [illegible]

Elevations :
KB : FT
DF : FT
GL : [illegible] FT

Additional Services
PTT

The user of this log is hereby warned that by providing the log data herein, T.W.S. does not undertake 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 recommendation which may be given by T.W.S. personnel. Any interpretation, conversion or recommendation is not part of the contract nor of 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.

Run Number 1

Depth To Fluid : 0.0 FT
Fluid Type In Hole : WBM
Density : 0.000 [illegible]
Viscosity : 0.000 S/Q
pH : 0.000
Fluid Loss : 0.000
Salinity : 0.000 PPM

RM Source : MEASURED
RM : 10.000 OHMM at [illegible] F
RM at BHT : 10.000 OHMM at [illegible] F

RMF Source : CALCULATED
RMF : 8.500 OHMM at [illegible] F
RMF at BHT : 8.500 OHMM at [illegible] F

RMC Source : CALCULATED
RMC : 11.500 OHMM at [illegible] F
RMC at BHT : 11.500 OHMM at [illegible] F

Max Recorded Temp. : [illegible] F
Time Circulation Stopped :
Operating Rig Time, Hrs. : 2.0

- Source Serial Numbers -

Gamma	CSV-587
Neutron	N-1044

Sonde Serial Numbers

GRTB	GRT-BA-14
CNT	CNP-AA-116
LDTNG	LDP-NG-02
PTT	PTT-AB-14

Casing Strings

Size (IN)	Weight (lb/FT)	Bottom FT

[illegible].000 32.00 22.00

- Comments -

ALL [illegible] AS PER CUSTOMER REQUEST.

GRT, CNT, LDT, PIT RAN IN COMBINATION
CALIPER ORIENTATED ON THE X-Y AXIS.
[illegible] CALIPER CORRECTED.
[illegible] USED TO CALCULATE POROSITY.
ANNULAR HOLE VOLUME CALCULATED USING 4.500" PRODUCTION CASING.

GRT: [illegible].
CNT: FNIR, CLNIN, PHINS.
LDT: PORL, DCORR, PECLN, CLDIN, LDENN, PORLS, PESN.
PIT: ILD, ILM, CIRD, SFLAEC, SPU.

[illegible]:

[illegible]
[illegible]

THANK YOU FOR USING TUCKER WIRELINE SERVICES!

Tool String Schematic

Total Tool Length [illegible] Ft.
Maximum Outside diameter [illegible] in.
Net Weight in Air [illegible] lbs.

Tool Zero
[illegible] Ft.
[illegible] Ft.
[illegible] Ft.

Tool: [illegible] Length: [illegible] Ft. O.D.: [illegible] in.
Sonde ID : [illegible]

Measure Point	Stack Offset	Tool Offset	Bottom Offset
[illegible]	[illegible]	[illegible]	41.29

Tool: [illegible] Length: [illegible] Ft. O.D.: [illegible] in.
Sonde ID : [illegible]
Source ID : [illegible]
Pad ID : [illegible]

Measure Point	Stack Offset	Tool Offset	Bottom Offset
[illegible]	9.40	6.00	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]

Tool: [illegible] Length: [illegible] Ft. O.D.: [illegible] in.
Sonde ID : [illegible]
Source ID : [illegible]
Pad ID : [illegible]

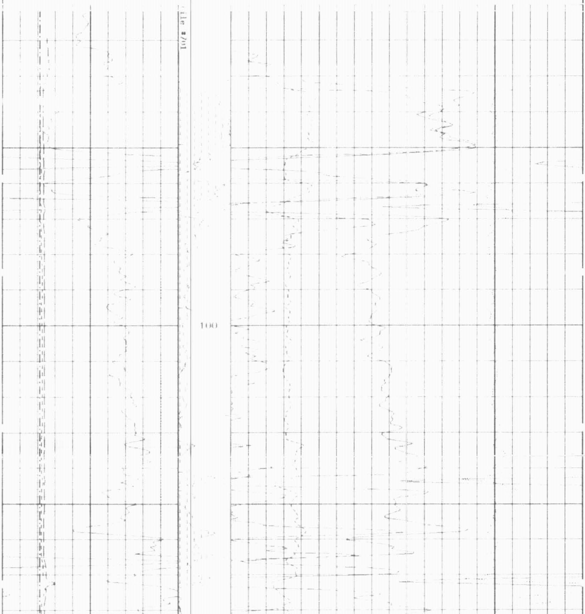
Measure Point	Stack Offset	Tool Offset	Bottom Offset
[illegible]	18.20	6.00	[illegible]
[illegible]	19.20	7.00	[illegible]
[illegible]	20.10	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]

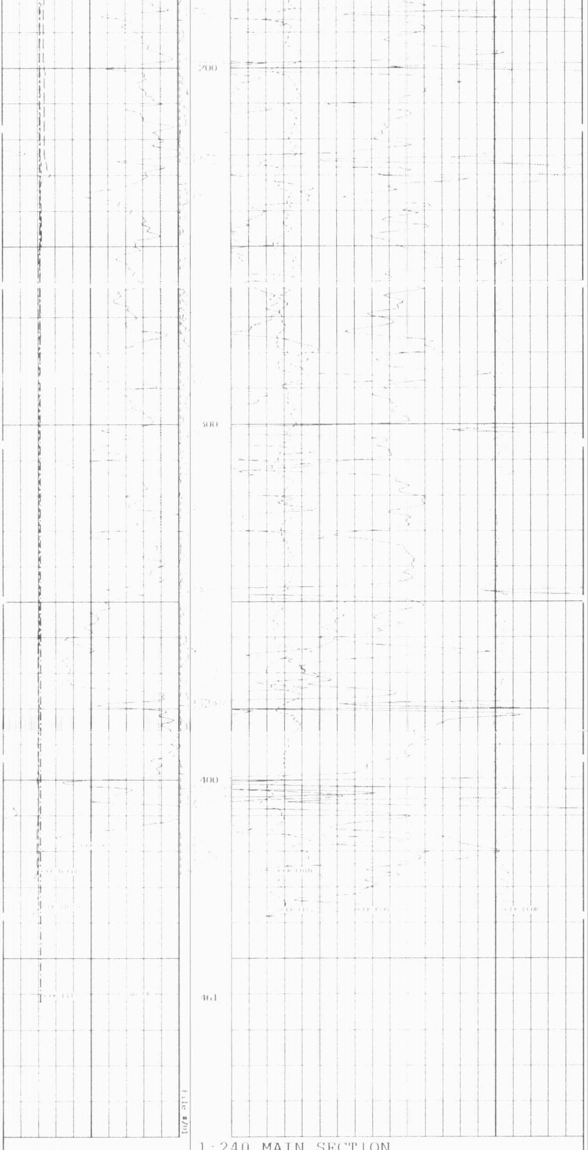
Tool: [illegible] Length: [illegible] Ft. O.D.: [illegible] in.
Sonde ID : [illegible]

Measure Point	Stack Offset	Tool Offset	Bottom Offset
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	10.10	11.20
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]

TENSION LBS 10000 0			
BIT SIZE INCHES (IN) 4 14			
DENSITY (X) CALIPER INCHES (IN) 14 24 4 14		PE CROSS SECTION BARNS/ELECTRON 0 10	DENSITY CORRECTION G/CC 0.25 0.25
NEUTRON (Y) CALIPER INCHES (IN) 14 24 4 14		NEUTRON POROSITY PERCENT (LIMESTONE MATRIX) 30 10	
GAMMA RAY API UNITS 200 400 0 200	-BHV BHV- CU.FT	DENSITY POROSITY PERCENT (2.71 g/cc) 70 30 30 10 10 50	

1:240 MAIN SECTION





1:240 MAIN SECTION

GAMMA RAY
API UNITS
200 400
0 200

BHV BHV
10.FT

DENSITY POROSITY
PERCENT (2.71 g/cc)
70 30
30 10
10 50

NEUTRON (Y) CALIPER
INCHES (IN)
14 24
4 14

NEUTRON POROSITY
PERCENT (LIMESTONE MATRIX)
30 10

DENSITY (X) CALIPER
INCHES (IN)
14 24
4 14

PE CROSS SECTION
BARNS/ELECTRON
0 10

DENSITY CORRECTION
G/CC
0.25 0.25

BIT SIZE
INCHES (IN)
4 14

TENSION
LBS
10000 0

* Borehole Zone Factors *

Zone 1 9999.0 to 0.0 F

Matrix Density	2.71 G/C3
Fluid Density	1.00 G/C3
Formation Matrix	Limestone
Drill Bit Size	6.125 IN
[illegible] Diameter	4.500 IN
[illegible]	Disable

TENSION
LBS
10000 0

BIT SIZE
INCHES (IN)
4 14

DENSITY (X) CALIPER
INCHES (IN)
14 24
4 14

PE CROSS SECTION
BARNS/ELECTRON
0 10

DENSITY CORRECTION
G/CC
0.25 0.25

NEUTRON (Y) CALIPER
INCHES (IN)
14 24
4 14

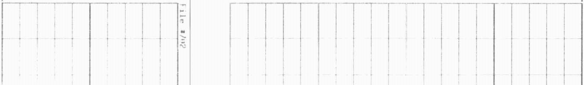
NEUTRON POROSITY
PERCENT (LIMESTONE MATRIX)
30 10

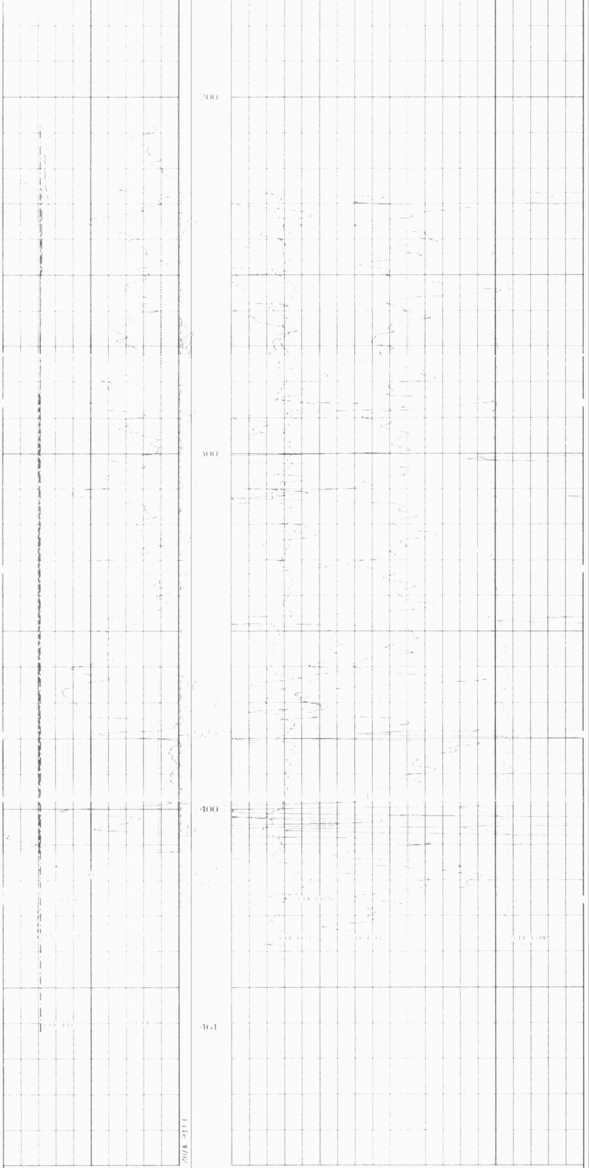
GAMMA RAY
API UNITS
200 400
0 200

BHV BHV
10.FT

DENSITY POROSITY
PERCENT (2.71 g/cc)
70 30
30 10
10 50

1:240 REPEAT SECTION





1:240 REPEAT SECTION

GAMMA RAY
API UNITS
200 400
0 200

-DRY DRY-
10,FT

DENSITY POROSITY
PERCENT (2.71 g/cc)
70 30
30 10
10 50

NEUTRON (Y) CALIPER
INCHES (IN)
14 24
4 14

NEUTRON POROSITY
PERCENT (LIMESTONE MATRIX)
30 10

DENSITY (X) CALIPER
INCHES (IN)
14 24
4 14

PE CROSS SECTION
BARNS/ELECTRON
0 10

DENSITY CORRECTION
G/CC
0.25 0.25

BIT SIZE
INCHES (IN)
4 14

TENSION
LBS
10000 0

* Borehole Zone Factors *

Zone 1 99999.0 to 0.0 ft

Matrix Density	2.71 G/CC
Fluid Density	1.00 G/CC
Formation Matrix	Lime Stone
Drill Bit Size	6.125 IN
[illegible] Diameter	1.500 IN
[illegible]	[illegible]

TENSION
LBS
10000 0

BIT SIZE
INCHES (IN)
4 14

DENSITY (X) CALIPER
INCHES (IN)
14 24
4 14

PE CROSS SECTION
BARNS/ELECTRON
0 10

DENSITY CORRECTION
G/CC
0.25 0.25

NEUTRON (Y) CALIPER
INCHES (IN)
14 24
4 14

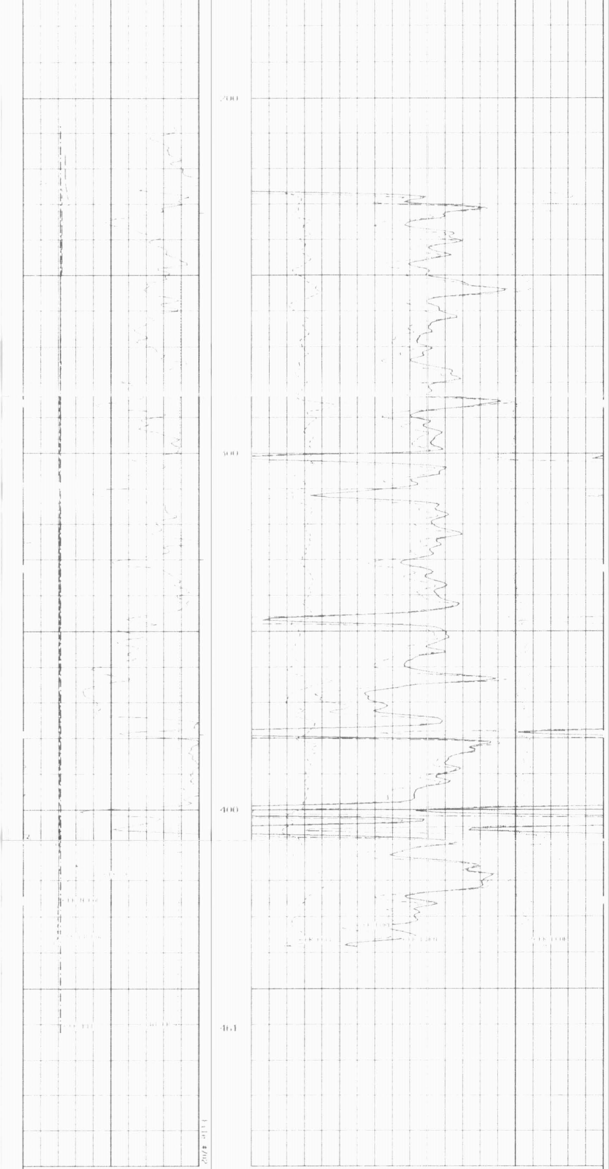
DENSITY POROSITY
PERCENT (2.71 g/cc)
70 30
30 10
10 50

GAMMA RAY
API UNITS
200 400
0 200

-DRY DRY-
10,FT

COMPENSATED BULK DENSITY
G/CC
3.0 4.0
2.0 3.0
1.0 2.0

1:240 MAIN SECTION
BULK DENSITY



1:240 MAIN SECTION
BULK DENSITY

```
GAMMA RAY                    BHV BHV    COMPENSATED BULK DENSITY
API UNITS                    CU.FT      G/CC
200                    400              3.0                              4.0
  0                    200              2.0                              3.0
                                        1.0                              2.0

NEUTRON (Y) CALIPER                     DENSITY POROSITY
INCHES (IN)                             PERCENT (2.71 g/cc)
14                      24              70                                30
 4                      14              30                                10
                                        10                                50

DENSITY (X) CALIPER                     PE CROSS SECTION     DENSITY CORRECTION
INCHES (IN)                             BARNS/ELECTRON       G/CC
14                      24
 4                      14              0                10  0.25          0.25

BIT SIZE
INCHES (IN)
4                       14

TENSION
LBS
10000                    0
```

* Borehole Zone Factors *

```
Zone 1    9999.0   to     0.0   f

Matrix Density                                  2.71   g/cc
Fluid Density                                   1.00   g/cc
Correction Matrix                           Limestone
Local Bit Size                                  6.125  IN
[illegible]                                     1.000  IN
[illegible]                                   Disabled
```

* Calibration Summary *

```
Shop Calibration
GRTB

  Performed : [illegible]                  Time : [illegible]
  Surface [illegible] : [illegible]          ID : [illegible]

              Measured      Unit        Calibrated      Unit
   Background    [illegible]
  [illegible]                                [illegible]

Shop Calibration
CNT

  Performed : [illegible] May [illegible]   Time : [illegible]
  Surface [illegible] : [illegible]         ID : [illegible]
  Source ID : [illegible]

                 Cal                     [illegible]        Unit
           Measured     Calibrated        [illegible]
  [illegible]
  [illegible]

  Performed : [illegible]                   Time : [illegible]
  Surface [illegible] : [illegible]         ID : [illegible]

             [illegible]  Measured          [illegible]  Calibrated   Unit
             Ring#1   Ring#                 Ring#1   Ring#
  [illegible]                                                          [illegible]

Shop Calibration
[illegible]

  Performed : [illegible]                   Time : [illegible]
  Surface [illegible] : [illegible]         ID : [illegible]

             [illegible]  Measured          [illegible]  Calibrated   Unit
             Ring#1   Ring#                 Ring#1   Ring#
  [illegible]          [illegible]  [illegible]          6.0   [illegible]     [illegible]

  Performed : [illegible] May [illegible]   Time : [illegible]
  Surface [illegible] : [illegible]         ID : [illegible]
  Source ID : [illegible]
```