22432

Tucker
WIRELINE SERVICES

COMPENSATED NEUTRON
PEL DENSITY LOG

CONFIDENTIAL
aul 11/22/11

RECEIVED
NOV 22 2010
Mo Oil & Gas Council

File No. : TUL-55037
Company : RUNNING FOXES PETROLEUM INC.
Well : STONER #13-6B-4
Field :
County : VERNON
State : MISSOURI
Country : U.S.A.

Location : PERMIT: 22432
620' FSL & 495' FWL

Sect : 06 Twp : 36N Rge : 33W

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

Date : MAY 25 2010
Run No. : 1

Permanent Datum :	GL	
Drilling Measured From :	GL	
Log Measured From:	GL	
Above Permanent Datum :	0.00	FT
Depth--Driller :	462.0	FT
Depth--Logger :	460.0	FT
Bottom Log Interval :	457.0	FT
Top Log Interval :	23.0	FT
Casing Depth--Driller:	20.0	FT
Casing Depth--Logger :	27.0	FT
Casing Diameter :	7.000	IN
Bit Size	6.125	IN

Unit No. TRK 123
Location TULSA

Elevations :
KB : FT
DF : FT
GL : 901.00 FT

Additional Services

PIT

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			
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 :	10.000	OHMM at	80	F
RM at BHT :	9.660	OHMM at	81	F
RMF Source :	CALCULATED			
RMF :	8.500	OHMM at	80	F
RMF at BHT :	8.210	OHMM at	81	F
RMC Source :	CALCULATED			
RMC :	11.500	OHMM at	80	F
RMC at BHT :	11.110	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-AE-42
LDTNG	LDP-DA-067
PIT B	PIT-BA-20

Casing Strings

Size (IN)	Weight (LB/FT)	Bottom (FT)
7.000	17.00	26.00

- Comments -

ALL PRESENTATIONS AS PER CLIENTS REQUEST.

GRT, CNT, LDT, AND PIT RUN IN COMBINATION.
CALIPERS ORIENTED ON THE X AXIS.
2.71 G/CC USED TO CALCULATE POROSITY.
ANNULAR HOLE VOLUME CALCULATED USING 2.875" PRODUCTION CASING.

GRT: GRP.
CNT: PHIN, PHINLS, CNTNR.
LDT: PHIL, PHILLS, [illegible], [illegible], LDENN, CLLDIR.
PIT: ILS, ILM, [illegible], SFLABV, SPU.

OPERATORS:
[illegible]

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 [illegible] lbs.

Tool Zero
5.40 ft.
15.70 ft.
33.00 ft.

Tool: GRIB Length: 5.40 ft. O.D.: [illegible] in.
Sonde ID : [illegible]

Measure Point	Stack Offset	Tool Offset	Bottom Offset
GRP	2.00	2.00	41.49

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

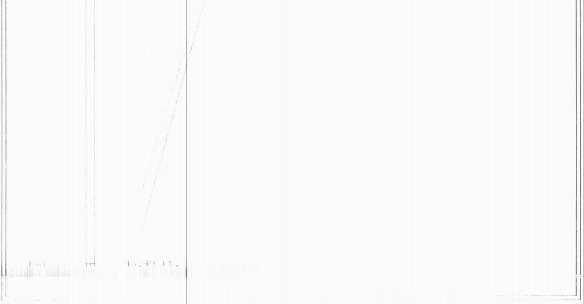
Measure Point	Stack Offset	Tool Offset	Bottom Offset
CNTN	9.40	[illegible]	34.09
PHIN	10.34	[illegible]	[illegible]

Tool: LDTDG Length: [illegible] ft. O.D.: 4.80 in.
Sonde ID : [illegible]
Source ID : [illegible]
Pad ID : [illegible]

Measure Point	Stack Offset	Tool Offset	Bottom Offset
LDTD	18.70	3.00	24.79
PEL	19.70	4.00	23.79
PES	20.10	4.40	23.39
LDEN	19.70	4.00	23.79
[illegible]	[illegible]	[illegible]	[illegible]

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

Measure Point	Stack Offset	Tool Offset	Bottom Offset
ILD	[illegible]	[illegible]	12.50
ILM	[illegible]	10.10	11.39
SFLU	[illegible]	[illegible]	4.00
SP	43.00	[illegible]	0.38



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

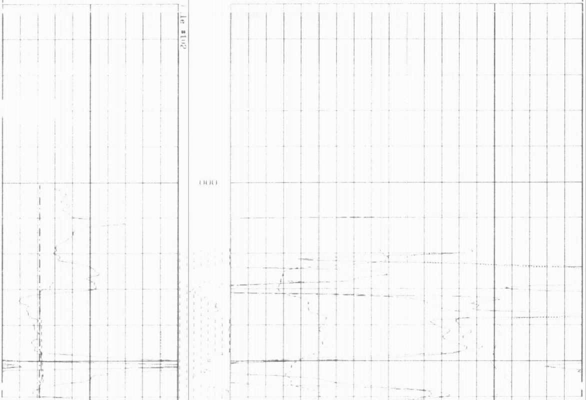
NEUTRON (Y) CALIPER
INCHES (IN)
14 24
4 14

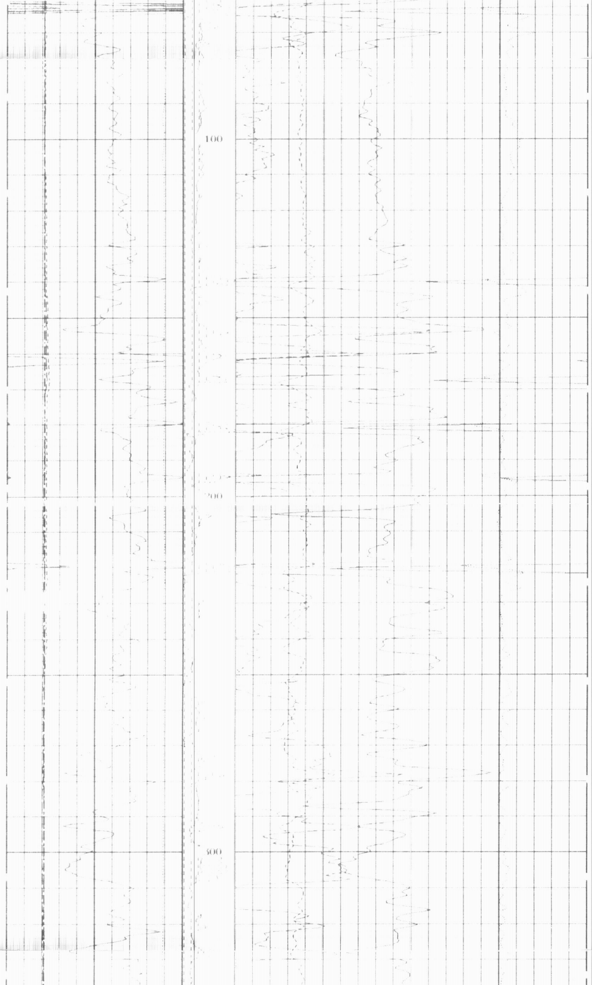
NEUTRON POROSITY
PERCENT (LIMESTONE MATRIX)
30 10

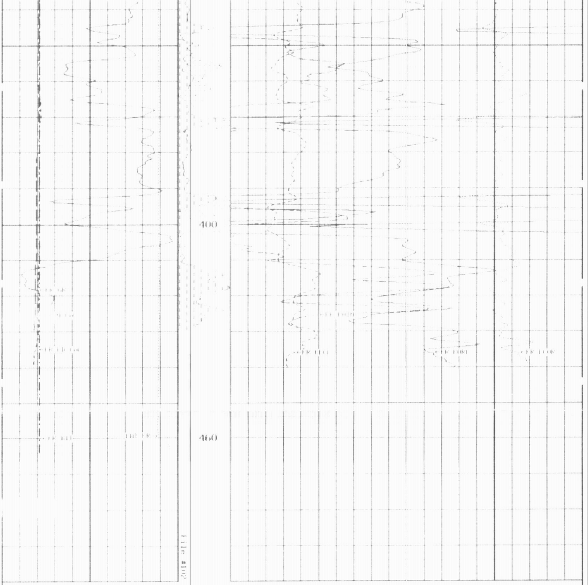
GAMMA RAY
API UNITS
200 400
0 200

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

1:240 MAIN SECTION







1:240 MAIN SECTION

GAMMA RAY
API UNITS
200 400
0 200

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

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 F

Matrix Density	2.71 G/CC
Fluid Density	1.00 G/CC
Formation Matrix	Limestone
Drill Bit Size	6.125 IN
Casing Correction (BIT IN)	Disable

TENSION
LBS
10000 0

BIT SIZE
INCHES (IN)
4 14

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

Volume
Quartz

PE CROSS SECTION
BARNS/ELECTRON
0 10

DENSITY CORRECTION
G/CC
-0.25 0.25

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

Volume
Calcite

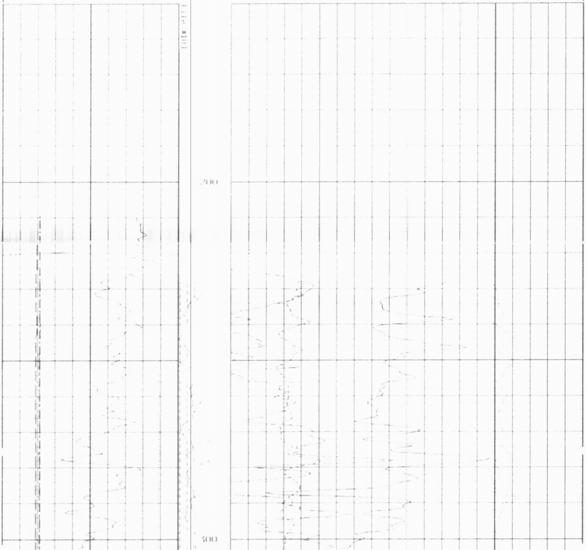
NEUTRON POROSITY
PERCENT (LIMESTONE MATRIX)
30 -10

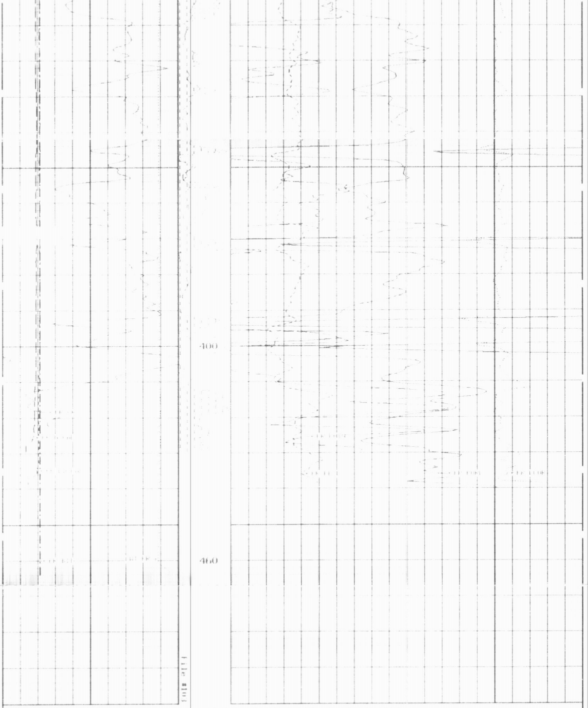
GAMMA RAY
API UNITS
200 400
0 200

Volume
Dolomite

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

1:240 REPEAT SECTION





1:240 REPEAT SECTION

GAMMA RAY API UNITS 200 400 0 200	Volume Dolomite	DENSITY POROSITY PERCENT (2.71 g/cc) 70 30 30 10
NEUTRON (Y) CALIPER INCHES (IN) 14 24 4 14	Volume Calcite	NEUTRON POROSITY PERCENT (LIMESTONE MATRIX) 30 10
DENSITY (X) CALIPER INCHES (IN) 14 24 4 14	Volume Quartz	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 F

Matrix Density	2.71 G/CC
Fluid Density	1.000 G/CC
Formation Matrix	Limestone
Drill Bit Size	6.125 IN
Casing Correction (FULL ID)	Disable

TENSION
LBS
10000 0

BIT SIZE
INCHES (IN)
4 14

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

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

GAMMA RAY
API UNITS
200 400
0 200

BHV BHV
CU.FT

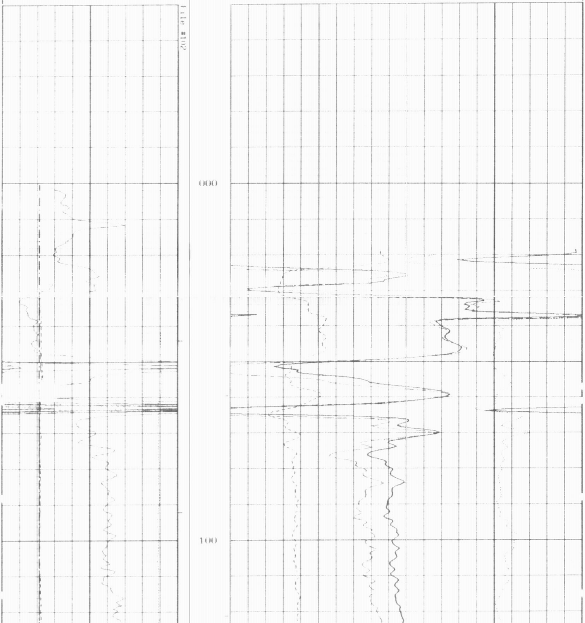
PE CROSS SECTION
BARNS/ELECTRON
0 10

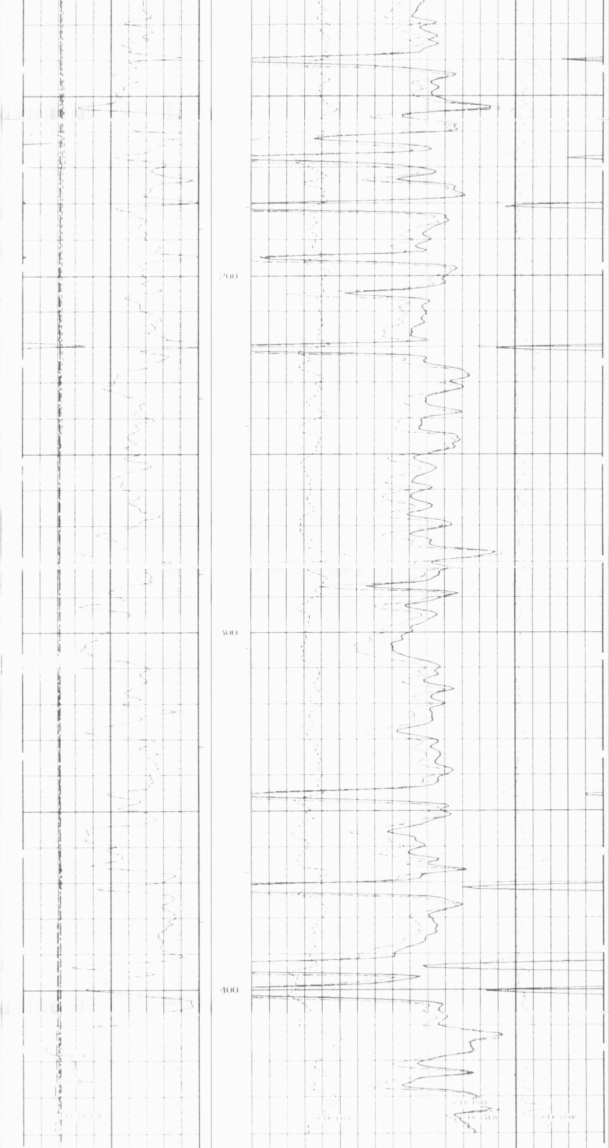
DENSITY CORRECTION
G/CC
0.25 0.25

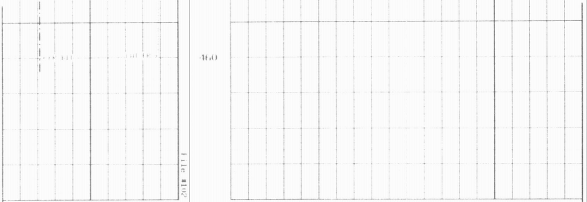
DENSITY POROSITY
PERCENT (2.71 g/cc)
30 10

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

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GAMMA RAY                          BHV BHV   COMPENSATED BULK DENSITY
API UNITS                          CAL-H     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
 4                            14             30                                     10
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
Formation Matrix                        Limestone
Drill Bit Size                              6.125   IN
Casing Correction (OH) [illegible]         Disable

* Calibration Summary *

Shop Calibration
GRTB
Performed : [illegible] Sep 2010          Time : 11:02
Source Serial : [illegible]                  ID : [illegible]

            Measured      Units        Calibrated        Unit
   Background      Cps                    Cps
GR          36       586     [illegible]      175           GAPI

Shop Calibration
CNT
Performed : 1[illegible] May 2010          Time : [illegible]
Source Serial : [illegible]                  ID : [illegible]
Source ID : [illegible]

            Tank                  Verification          Units
   Measured      Calibrated          Cps
[illegible]    [illegible]      [illegible]       [illegible]
Porosity       20.4          20.5             20.4

Performed : [illegible] APR 2010          Time : [illegible]
Source Serial : [illegible]                  ID : [illegible]

          Cps   Measured              Cps   Calibrated   Unit
       Ring#1  Ring#2              Ring#1  Ring#2
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LL #2              6,0      11,5              6,0     12,0        HL
----------------------------------------------------------------------
                         Shop Calibration
                               LDING

      Performed : 27 APR 2010              Time : 12:55
   Session Name : Ld.1EE1                    ID : CDF 00 06

                 Type   Measured            Type   Calibrated   Units
               Ring#1   Ring#2            Ring#1   Ring#2
LL #1             7,7     12,7               6,0     12,0        HL

      Performed : 27 apr 2010              Time : 12:02
   Session Name : BBBPTLLBG                  ID : CDF 00 067
      Sample ID : 9901LM

                            Short Space
                BEGIN          Al           Mg    [illegible]   Units
L5001              69        1194        19079          724       LL%
L5002              74        1562        27162          983       LL%
L5003             262        5109        56002         2656       LL%
L5004             331        2819        40833         2488       LL%
L5005              50          66  [illegible]  [illegible]       LL%
L5006              87          87           62           67       LL%
L5007              57          60           60           30       LL%
L5008               5          12            9            7       LL%
GF             0,1150      0,1184       0,1154       0,1134
[illegible]                             2,2031       5,2867
[illegible]                2,6000       1,6600                  0,711

                            Long Space
                BEGIN          Al           Mg    [illegible]   Units
L1001              98        1579         5599         1309       LL%
L1002             111        2298        18875         1691       LL%
L1003             418        4209       152638         5654       LL%
L1004             535        2004        64537         1875       LL%
L1005              58          69          132           68       LL%
L1006             127         175          162          175       LL%
L1007             111         106          105          110       LL%
L1008     [illegible] [illegible]           39            6       LL%
GF             0,2179      0,2253       0,2213       0,2273
[illegible]                             7,6557       5,4480
[illegible]                2,6000       1,6600                  0,711
```