217-22409

Tucker WIRELINE SERVICES

COMPENSATED NEUTRON PEL DENSITY LOG

CONFIDENTIAL 12/20/11

RECEIVED
DEC 20 2010
Mo Oil & Gas Council

File No. : TUL-56591
Company : RUNNING FOXES PETROLEUM, INC.
Well : KEITH #4-29B
Field : BUCHANAN / WORDEN
County : VERNON
State : MISSOURI
Country : U.S.A.

Location : PERMIT: #22409
280' FNL & 250' FWL

Sect : 29 Twp : 37N Rge : 33W

Recorded By : R. FRANKLIN
Witnessed By : C. COUNTS

Date : AUG 09 2010
Run No. : 1

Permanent Datum :	GL	
Drilling Measured From :	GL	
Log Measured From:	GL	
Above Permanent Datum :	0.00	FT
Depth--Driller :	350.0	FT
Depth--Logger :	349.0	FT
Bottom Log Interval :	326.0	FT
Top Log Interval :	23.0	FT
Casing Depth--Driller:	23.0	FT
Casing Depth--Logger :	23.0	FT
Casing Diameter :	7.000	IN
Bit Size	6.125	IN

Unit No. TRK 123
Location TULSA

Elevations :

KB :		FT
DF :		FT
GL :	805.00	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 WATER			
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 :	3.000	OHMM at	85	F
RM at BHT :	3.070	OHMM at	83	F
RMF Source :	CALCULATED			
RMF :	2.550	OHMM at	85	F
RMF at BHT :	2.600	OHMM at	83	F
RMC Source :	CALCULATED			
RMC :	3.450	OHMM at	85	F
RMC at BHT :	3.520	OHMM at	83	F
Max Recorded Temp. :			83	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	15.00	23.00

- Comments -

ALL PRESENTATIONS AS PER CLIENTS REQUEST.

GRT, CNT, LDT, AND PIT RUN IN COMBINATION.
CALIPERS ORIENTED ON THE X-Y AXIS.
2.71 G/CC USED TO CALCULATE PORSITY.
ANNULAR HOLE VOLUME CALCULATED USING 4.50" PRODUCTION CASING.

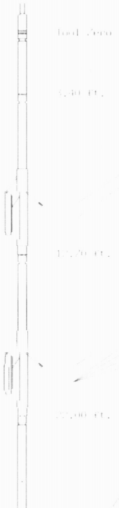
GRT: GRP.
CNT: PHIN, PHINLS, CLCNIN.
LDT: PORL, PORLLS, LCORN, PECLN, LDENN, CLLDIN.
PIT: ILD, ILM, CIRD, SFLAEC, SPU.

OPERATORS:
S. DAVIS
M. GARNER

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-AI-42
Source ID : N-1046
Pad ID : CNP-AI-42

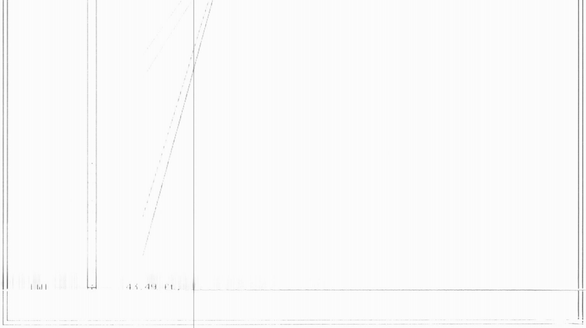
Measure Point	Stack Offset	Tool Offset	Bottom Offset
CLCN	9.40	6.00	34.09
PHIN	10.24	6.84	33.25

Tool: LDTNG **Length:** 9.30 ft. **O.D.:** 4.80 in.
Sonde ID : LDP-BA-062
Source ID : 2991GW
Pad ID : LDP-BA-062

Measure Point	Stack Offset	Tool Offset	Bottom Offset
CLLD	18.70	6.00	24.79
PEI	19.70	7.00	23.79
PES	20.10	7.40	23.39
CLDR	19.70	7.00	23.79
LCOR	19.70	7.00	23.79

Tool: PIT **Length:** 21.49 ft. **O.D.:** 3.62 in.
Sonde ID : PIT-BA-20

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

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

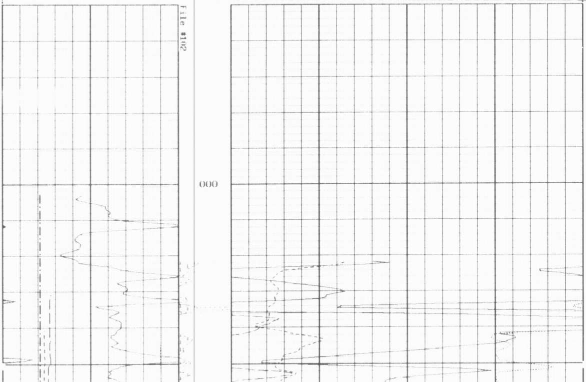
NEUTRON POROSITY
PERCENT (LIMESTONE MATRIX)
30 10

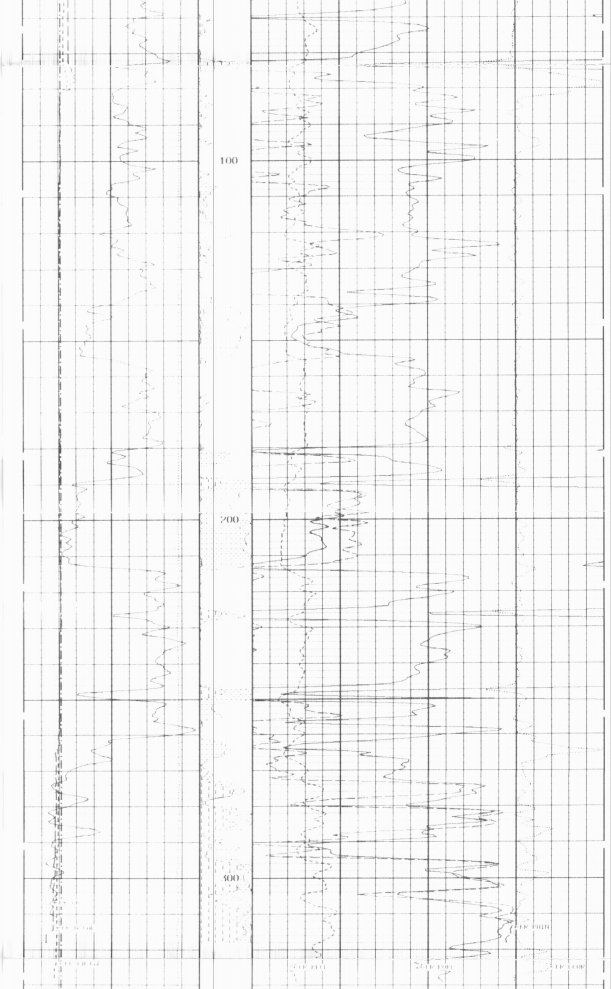
GAMMA RAY
API UNITS
200 400
0 200

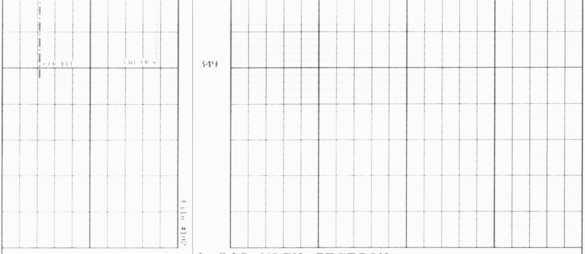
Volume
Dolomite

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

1:240 MAIN SECTION







1:240 MAIN SECTION

GAMMA RAY API UNITS	Volume Dolo/Shale	DENSITY POROSITY PERCENT (2.71 g/cc)	
200 — 400 0 — 200		70 — 30 30 — 10	
NEUTRON (Y) CALIPER INCHES (IN)	Volume Calcite	NEUTRON POROSITY PERCENT (LIMESTONE MATRIX)	
14 — 24 4 — 14		30 — 10	
DENSITY (X) CALIPER INCHES (IN)	Volume Quartz	PE CROSS SECTION BARNS/ELECTRON	DENSITY CORRECTION G/CC
14 — 24 4 — 14		0 — 10	0.25 — 0.25
BIT SIZE INCHES (IN)			
4 — 14			
TENSION LBS			
10000 — 0			

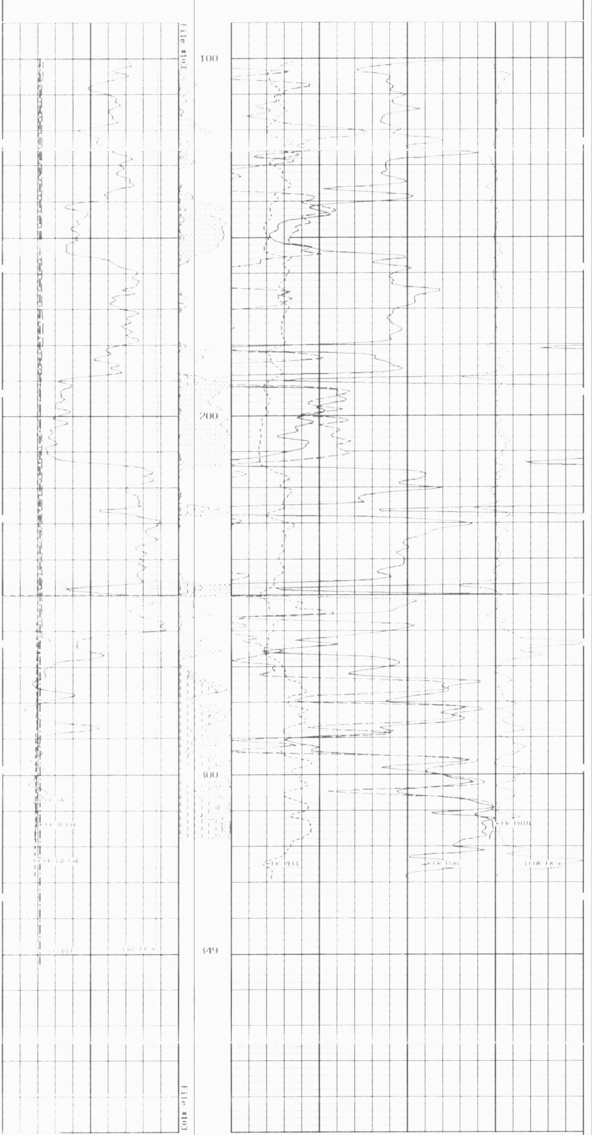
* Borehole Zone Factors *

Zone 1 99999.0 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
Casing Correction (OHL N)	Disable

TENSION LBS			
10000 — 0			
BIT SIZE INCHES (IN)			
4 — 14			
DENSITY (X) CALIPER INCHES (IN)	Volume Quartz	PE CROSS SECTION BARNS/ELECTRON	DENSITY CORRECTION G/CC
14 — 24 4 — 14		0 — 10	0.25 — 0.25
NEUTRON (Y) CALIPER INCHES (IN)	Volume Calcite	NEUTRON POROSITY PERCENT (LIMESTONE MATRIX)	
14 — 24 4 — 14		30 — 10	
GAMMA RAY API UNITS	Volume Dolo/Shale	DENSITY POROSITY PERCENT (2.71 g/cc)	
200 — 400 0 — 200		70 — 30 30 — 10	

1:240 REPEAT SECTION



1:240 REPEAT SECTION

GAMMA RAY
API UNITS
200 400
0 200

Volume
Dolo/Shale

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/C3
Fluid Density	1.00 G/C3
Formation Matrix	Limestone
Drill Bit Size	6.125 IN
Casing Correction (PHIN)	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

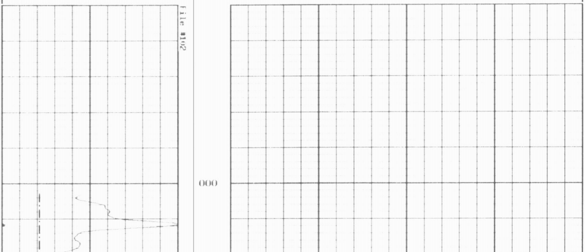
DENSITY POROSITY
PERCENT (2.71 g/cc)
30 10

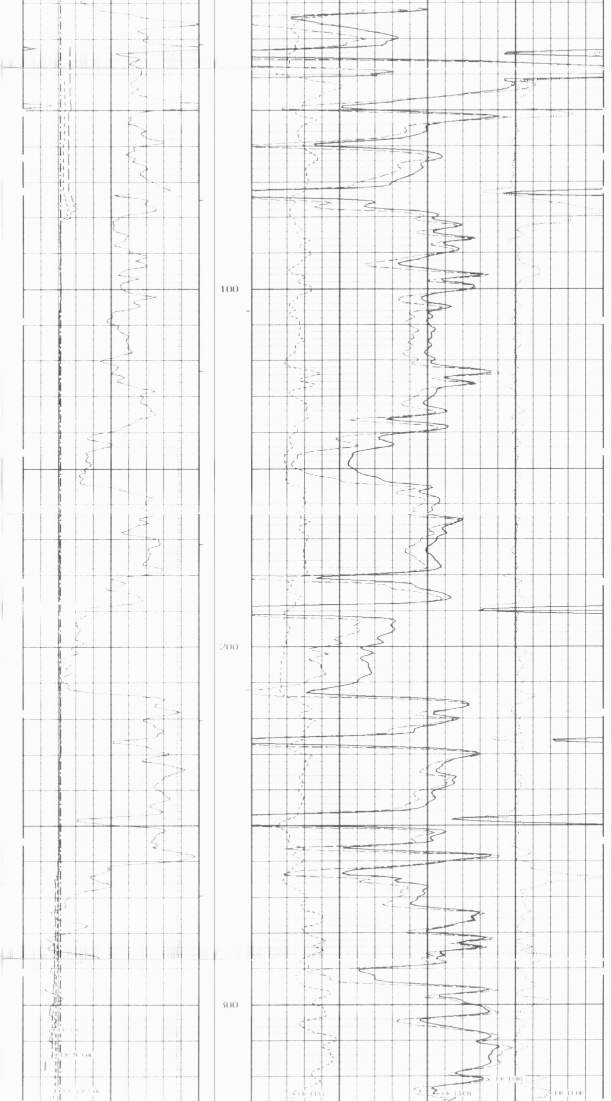
GAMMA RAY
API UNITS
200 400
0 200

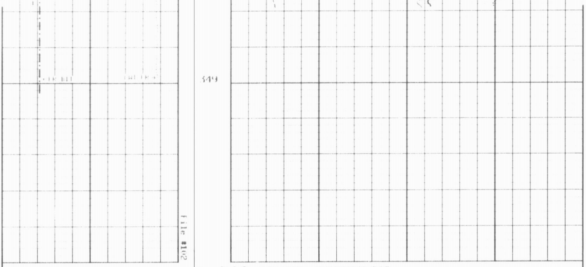
-BHV BHV-
CU.FT

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 API UNITS 200 400 200	-RHV RHV- OL FT	COMPENSATED BULK DENSITY G/CC 3.0 4.0 2.0 3.0 1.0 2.0
NEUTRON (Y) CALIPER INCHES (IN) 14 24 4 14		DENSITY POROSITY PERCENT (2.71 g/cc) 30 10
DENSITY (X) CALIPER INCHES (IN) 14 24 4 14		PE CROSS SECTION BARNS/ELECTRON 0 10
BIT SIZE INCHES (IN) 4 14		DENSITY CORRECTION G/CC 0.25 0.25
TENSION LBS 10000 0		

* Borehole Zone Factors *

Zone 1 99999.0 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
Casing Correction (PHI N)	Disable

* Calibration Summary *

Shop Calibration
GRTB

Performed : 29 Apr 2010 Time : 11:02
Sensor Serial : GR 685 ID : GRT BC 41

	Measured		Units	Calibrated	Units
	Background	Jig		Jig	
GR	46	546	CPS	175	GRAPI

Shop Calibration
CNT

Performed : 02 Aug 2010 Time : 10:31
Sensor Serial : BRD NEU ID : CNP AL 42
Source ID : N 1046

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           Tank                   Verification          Units
      Measured    Calibrated          Tgt
[illegible]     5.6430      5.6494           5.6494
Porosity        29.7        29.5             29.5           %

    Performed : 02 AUG 2010             Time : 11:25
 Sensor Serial : Cal1BCN                  ID : CNP 0d 42

            Tgt    Measured            Tgt    Calibrated   Units
          Ring#1   Ring#2            Ring#1   Ring#2
CL #1        6.1     11.6               6.0     12.0        IN.
-----------------------------------------------------------------
                     Shop Calibration
                          LDTNG
    Performed : 15 JUL 2010             Time : 12:11
 Sensor Serial : Cal TPH                  ID : LDP Dn 062

            Tgt    Measured            Tgt    Calibrated   Units
          Ring#1   Ring#2            Ring#1   Ring#2
CL #1        6.9     12.5               6.0     12.0        IN.

    Performed : 15 Jul 2010             Time : 12:04
 Sensor Serial : BBCPLING                 ID : LDP Dn 062
     Source ID : 2991GW

                          Short Space
             BKGD         Al          Mg        Al+Fe       Units
LS001          62       1169        1884         259        CPS
LS002          24       1364        2159         622        CPS
LS003         293       3140        5049        2952        CPS
LS004         551       2856        4124        2996        CPS
LS005          30         66          73          63        CPS
LS006          31         44         180          36        CPS
LS007          56         59          61          61        CPS
LS008           5          7           9           8        CPS
DS         0.1887     0.1756      0.1181      0.1320
RHS                               2.2228      5.2962
SSDEN                 2.6600      1.6880                    G/CC

                          Long Space
             BKGD         Al          Mg        Al+Fe       Units
LL001          38       1369        5094         266        CPS
LL002         169       2514        9012        1624        CPS
LL003         412       4501       16266        5884        CPS
LL004         554       2025        6529        1031        CPS
LL005          56         70         129          67        CPS
LL006         124        124         162         124        CPS
LL007         108        108         102         109        CPS
LL008           5          6          19           6        CPS
DL         0.2437     0.2354      0.2287      0.2350
RHL                               2.6862      5.4583
LSDEN                 2.6600      1.6880                    G/CC
```