217-22423

Tucker
WIRELINE SERVICES

COMPENSATED NEUTRON
PEL DENSITY LOG

! CONFIDENTIAL
Until 10-22-10

File No. : TUL-54816
Company : RUNNING FOXES PETROLEUM, INC.
Well : EMMERSON #11-6C-3
Field : WILDCAT
County : VERNON
State : MISSOURI
Country : U.S.A.

RECEIVED
OCT 22 2009
Mo Oil & Gas Council

Location : PERMIT # 22423
1520' FSL & 1520' FWL
SW NE SW
Sect : 06 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 : 0.00 FT

Depth--Driller : 438.0 FT
Depth--Logger : 438.0 FT
Bottom Log Interval : 415.0 FT
Top Log Interval : 20.0 FT

Casing Depth--Driller: 20.0 FT
Casing Depth--Logger : 20.0 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
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 / 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 68 F
RM at BHT : 10.692 OHMM at 81 F

RMF Source : CALCULATED
RMF : 8.415 OHMM at 68 F
RMF at BHT : 9.087 OHMM at 81 F

RMC Source : CALCULATED
RMC : 11.385 OHMM at 68 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	10.00	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 43.49 ft.
Maximum Outside diameter 4.80 in.
Net Weight in Air 243.00 lbs.

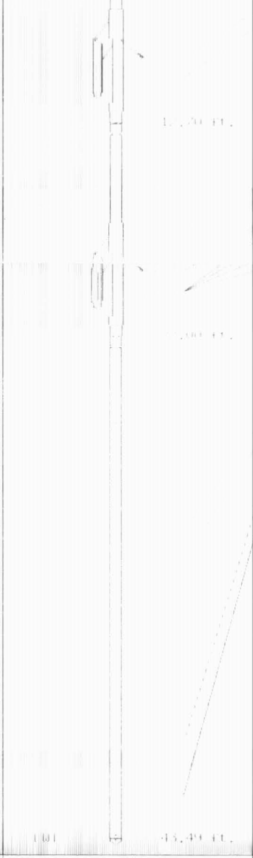
Tool Zero
5.40 ft.

Tool: GRTB Length: 5.40 ft. O.D.: 3.50 in.
Sonde ID : GRT-BC-41

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

Tool: CNT Length: 9.50 ft. O.D.: 3.50 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	4.00	34.09



PHIN	10.24	[illegible]	33.25

Tool: CDL Length: 9.30 ft. O.D.: 4.50 in.
Sonde ID : CDL No 14
Source ID : [illegible]
Pad ID : CDP No 14

Measure Point	Stack Offset	Tool Offset	Bottom Offset
CLLD	18.70	6.00	24.79
PE	19.94	7.24	23.55
PES	19.94	7.24	23.55
LDRH	19.94	7.24	23.55
[illegible]	[illegible]	[illegible]	[illegible]

Tool: DIL Length: 21.49 ft. O.D.: 3.62 in.
Sonde ID : DIL No 21

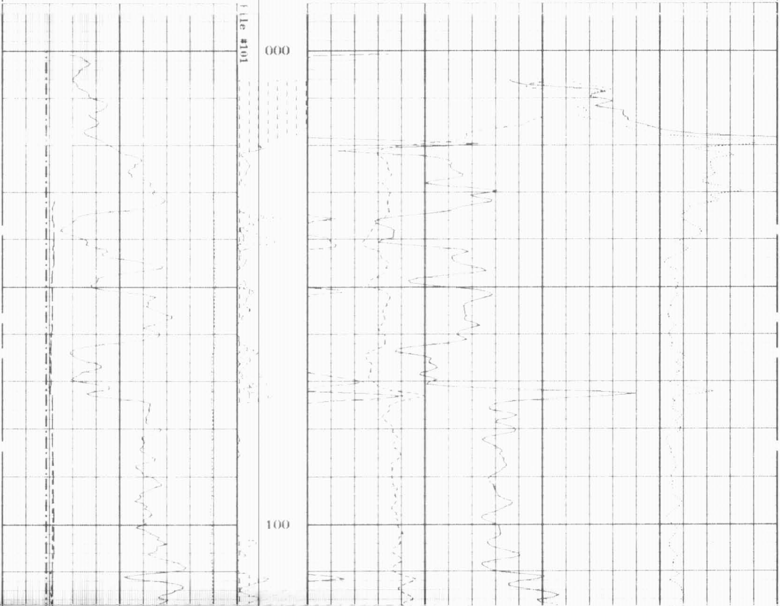
Measure Point	Stack Offset	Tool Offset	Bottom Offset
ILD	30.93	8.93	12.56
ILM	32.10	10.10	11.39
SFLU	39.49	17.49	4.00
SP	42.61	20.60	0.88

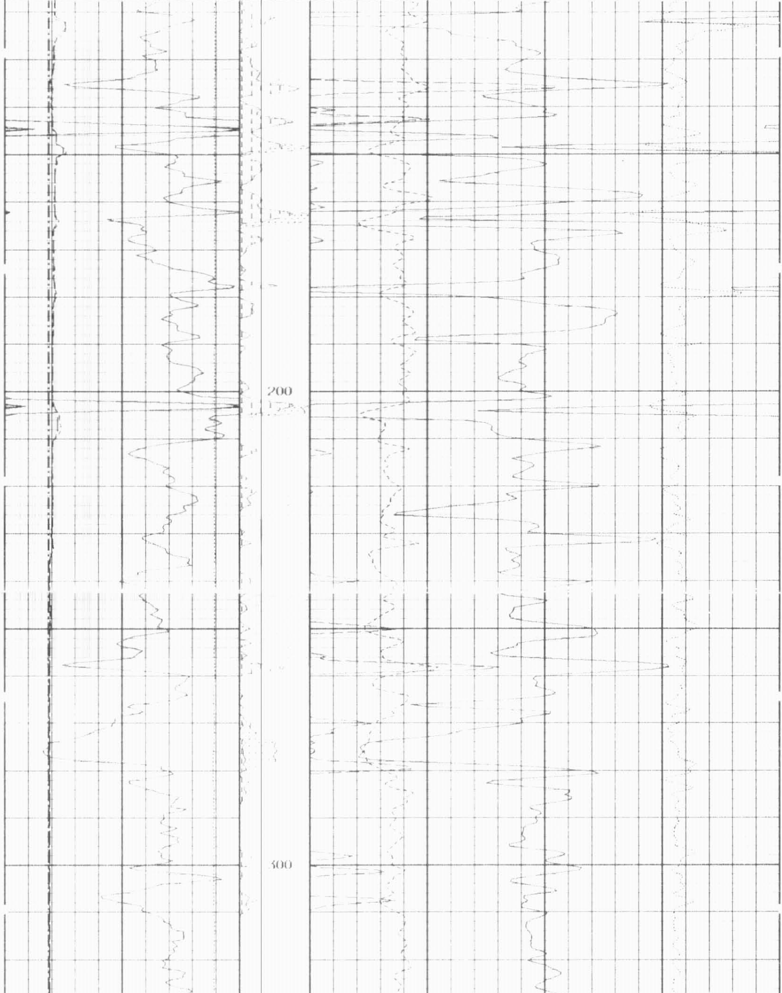
TENSION LBS	
10000	0

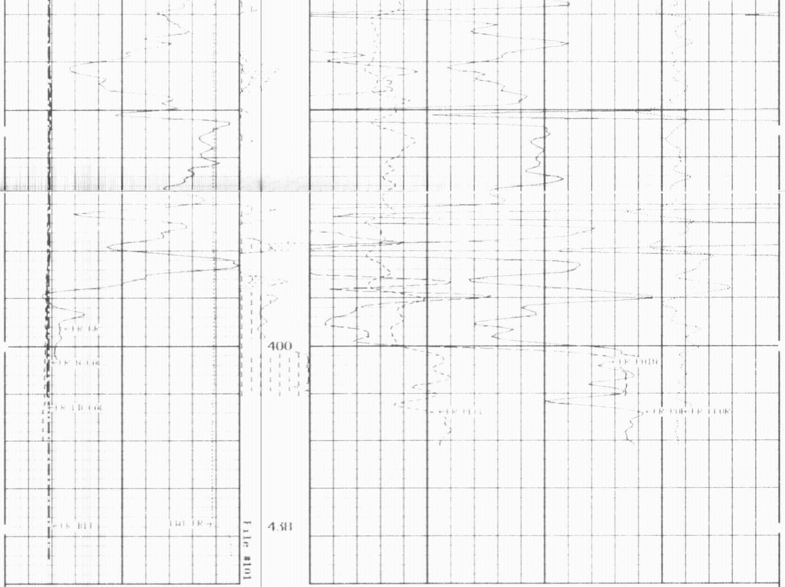
BIT SIZE
INCHES (IN)

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 Dolo/Shale	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	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

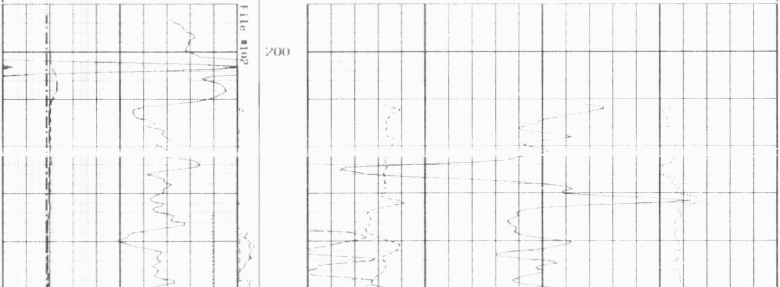
Matrix Density 2.71 G/CC
Fluid Density 1.000 G/CC
Formation Matrix Limestone
Drill Bit Size 5.875 IN
Casing Correction (PHI N) Disable

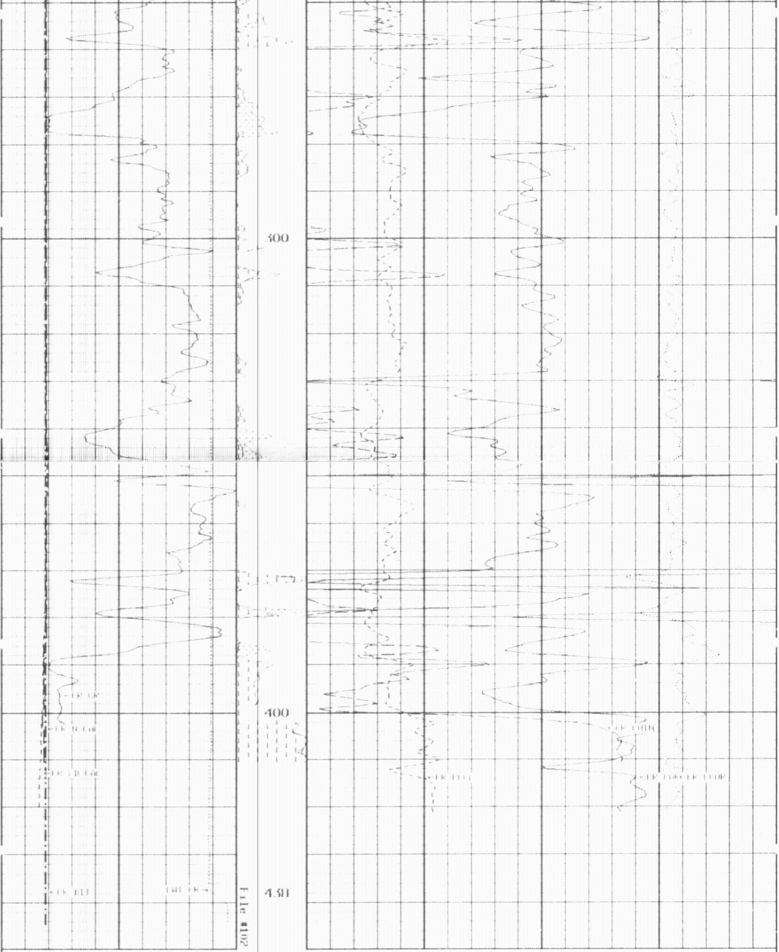
TENSION
LBS
10000 0

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

1:240 REPEAT SECTION





1:240 REPEAT 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			

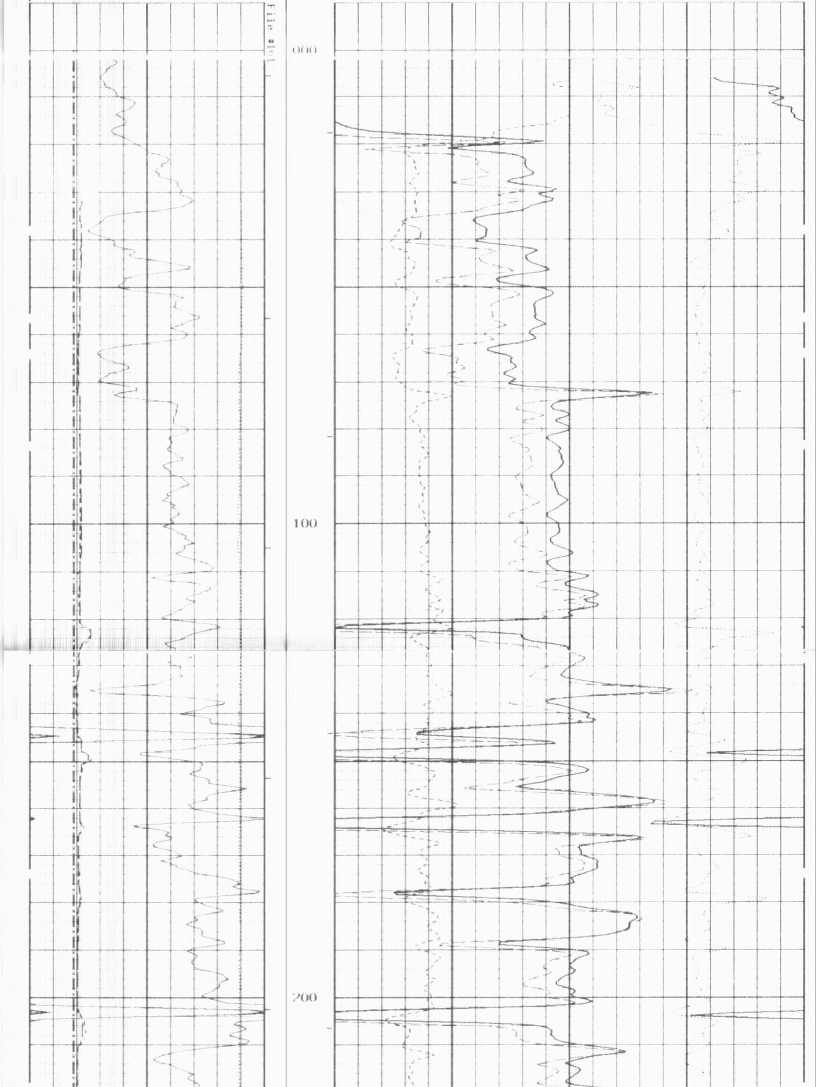
* Borehole Zone Factors *

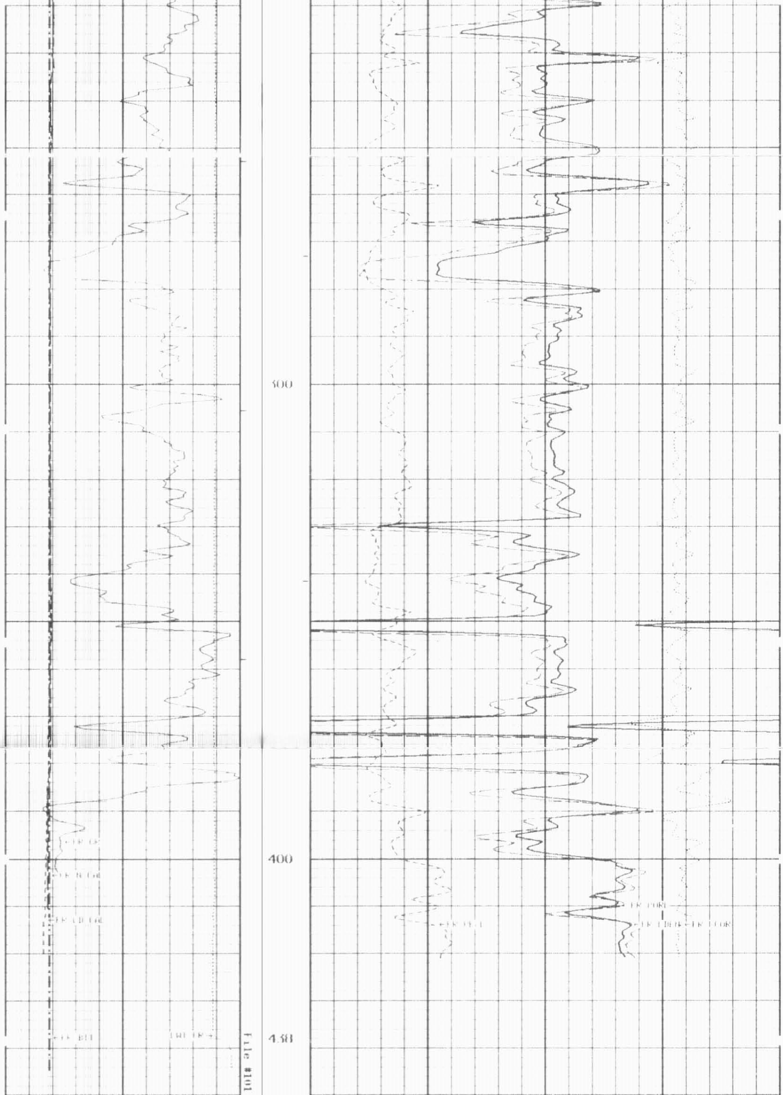
Zone 1 99999.0 to 0.0 F

Matrix Density	2.71 G/CC
Fluid Density	1.00 G/CC
Formation Matrix	Limestone
Drill Bit Size	5.875 IN
Casing Correction (PHI N)	Disable

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

-BHV AHV-
CU.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

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                                 5.875  IN
    Casing Correction (PHI N)                     Disable


                    * Calibration Summary *

                       Shop Calibration
                             GRIB
     Performed : 24 Apr 2008                 Time : 10:49
  Sensor Suite : GR GRS                        ID : GRT BC 41

                 Measured      Units        Calibrated        Units
      Background       Jig                     Jig
GR               45    557     CPS              135           GAPI

                       Shop Calibration
                             CNT
     Performed : 25 Jun 2009                 Time : 11:16
  Sensor Suite : DRR NEUT                      ID : CNP no 112
     Source ID : N 1046

                     Tank                 Verification        Units
            Measured      Calibrated          Jig
N/F           3.8759        3.6891           3.2079
Porosity      23.4          20.5             20.2             %

     Performed : 28 MAY 2009                 Time : 11:56
  Sensor Suite : CALI BCN                      ID : CNP no 112

                 Jig    Measured           Jig    Calibrated    Units
              Ring#1   Ring#2            Ring#1   Ring#2
```

```
CL # 1               5.8     11.8               6.0     12.0          IN.
---------------------------------------------------------------------------
                          Shop Calibration
                                LDT
       Performed : 01 Jul 2009              Time : 10:17
   Sensor Serial : 880 PEB                    ID : LDP Bo 14
       Source ID : 2991GW

                             Short Space
                  BKGD          Al           Mg        Al+Mg       Units
SSW1                62       14255        25524         8056        CPS
SSW2                78       25484        43005        16057        CPS
SSW3               501       55316        98619        44856        CPS
SSW4               588       33384        56544        29441        CPS
SSW5                51         484          586          483        CPS
SSW6                79         189          188          189        CPS
SSW7                80         188          185          189        CPS
SSW8                 1           5            5            5        CPS
QSS              0.006       0.006        0.017        0.000
PES                                       2.961        6.261
SSDR                         2.581        1.679                    G/CC

                             Long Space
                  BKGD          Al           Mg        Al+Mg       Units
LSW1                60        5880        22107          528        CPS
LSW2                70       10727        50234          953        CPS
LSW3               268       11895        29962         1651        CPS
LSW4               327        8159        28625          223        CPS
LSW5                22          29           45           29        CPS
LSW6                69          69           70           70        CPS
LSW7                70          69           66           68        CPS
LSW8                 1           2            5            2        CPS
QLS              0.002       0.000        0.024        0.014
PEL                                       2.184        6.594
LSDR                         2.581        1.674                    G/CC

       Performed : 15 May 2009              Time : 17:10
   Sensor Serial : Ld1 PEB                    ID : LDP Bo 14

                Dia    Measured             Dia    Calibrated     Units
               Ring#1   Ring#2             Ring#1   Ring#2
CL # 1               6.9     12.9               6.0     12.0          IN.
```