22398

! **CONFIDENTIAL** until 2-11-11

Tucker
[illegible]

DUAL INDUCTION
RESISTIVITY LOG
#

File No. : [illegible]
Company : RUNNING FOXES PETROLEUM
Well : SIDNER 14-7-SWD
Field : WILDCAT
County : VERNON
State : MISSOURI
Country : U.S.A.

RECEIVED
FEB 11 2010
Mo Oil & Gas Council

Location : PERMIT # 22398
550' FSL & 1060' FWL

Sect : 7 Twp : 36N Rge : 33W

Recorded By : C. GREEVER
Witnessed By : B. WALSH

Date : JUN 23 2009
Run No. : 1

Permanent Datum :	GL	
Drilling Measured From :	GL	
Log Measured From:	GL	
Above Permanent Datum :	0.00	FT
Depth--Driller :	788.0	FT
Depth--Logger :	786.0	FT
Bottom Log Interval :	785.0	FT
Top Log Interval :	42.0	FT
Casing Depth--Driller:	42.0	FT
Casing Depth--Logger :	42.0	FT
Casing Diameter :	8.625	IN
Bit Size :	7.875	IN

Unit No. TRK 118
Location TULSA

Elevations :
KB : FT
DF : FT
GL : 863.00 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 [illegible] 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 : NATIVE
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 : 4.600 OHMM at 90 F
RM at BHT : 4.696 OHMM at 88 F

RMF Source : CALCULATED
RMF : 3.910 OHMM at 90 F
RMF at BHT : 3.992 OHMM at 88 F

RMC Source : CALCULATED
RMC : 5.060 OHMM at 90 F
RMC at BHT : 5.166 OHMM at 88 F

Max Recorded Temp. : 88 F
Time Circulation Stopped : JUN 23 2009 @ 13:00
Operating Rig Time, Hrs. : 2.0

- Source Serial Numbers -

Gamma	317-49B
Neutron	21166B

- Sonde Serial Numbers -

GRTB	GRT-BC-43
CNT	CNP-AD-34
LDTNG	LDT-NG-002
PIT	PIT-AB-11

Casing Strings

Size (IN)	Weight (LB/FT)	Bottom (FT)
8.625	32.00	42.00

- Comments -

ALL PRESENTATIONS AS PER CLIENTS REQUEST>

GRT, CNT, LDT AND PIT RUN IN COMBINATION.
CALIPERS ORIENTED IN X-Y AXIS
2.71 G/CC USED TO CALCULATE PORSITY
PHIN IS CALIPER CORRECTED
ANNULAR HOLE VOLUME CALCULATED USING 4.5'' PRODUCTION CASING

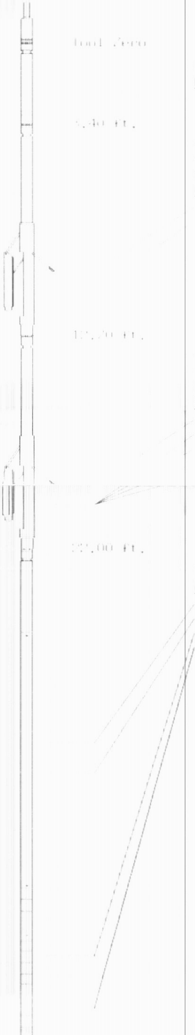
GRT: GRP.
CNT: PHIN, CLCNIN.
LDT: PORL, LCORN, PECLN, LDENN, CLLDIN.
PIT: ILD , ILM, SFLAEC, CIRD, SPU.

OPERATORS:
J. COLWILL
L. BARTO

THANK YOU FOR USING TUCKER WIRELINE SERVICES!!!!!!!!!!!!!!!!!!

Tool String Schematic

Total Tool Length 43.29 ft.
Maximum Outside diameter 4.80 in.
Net Weight in Air 243.00 lbs.



Tool: GRTB **Length:** 3.40 ft. **O.D.:** [illegible] in.
Sonde ID : GRT BC 43

Measure Point	Stack Offset	Tool Offset	Bottom Offset
GRP	2.00	2.00	[illegible]

Tool: CNT **Length:** 9.30 ft. **O.D.:** [illegible] in.
Sonde ID : CNP BD 54
Source ID : 211666
Pad ID : CNP BD 54

Measure Point	Stack Offset	Tool Offset	Bottom Offset
CLLN	9.40	6.00	[illegible]
PHIN	10.24	6.84	[illegible]

Tool: CDTDB **Length:** [illegible] ft. **O.D.:** [illegible] in.
Sonde ID : CDT NB 002
Source ID : 3127498
Pad ID : CDT NB 002

Measure Point	Stack Offset	Tool Offset	Bottom Offset
CLLD	18.70	6.00	[illegible]
PE	19.70	7.00	[illegible]
PES	20.10	7.40	[illegible]
CDEN	19.70	7.00	[illegible]
CDDP	19.7[illegible]	[illegible]	[illegible]

Tool: PIT **Length:** 21.29 ft. **O.D.:** [illegible] in.
Sonde ID : PIT AB 11

Measure Point	Stack Offset	Tool Offset	Bottom Offset
ILD	30.92	8.92	[illegible]
ILM	32.10	10.10	[illegible]
SFLU	39.49	17.49	[illegible]
SP	42.60	20.60	[illegible]

TWT 43.29 ft.

TENSION
LBS
10000 0

SPONTANEOUS POTENTIAL
mV
→| |← 20

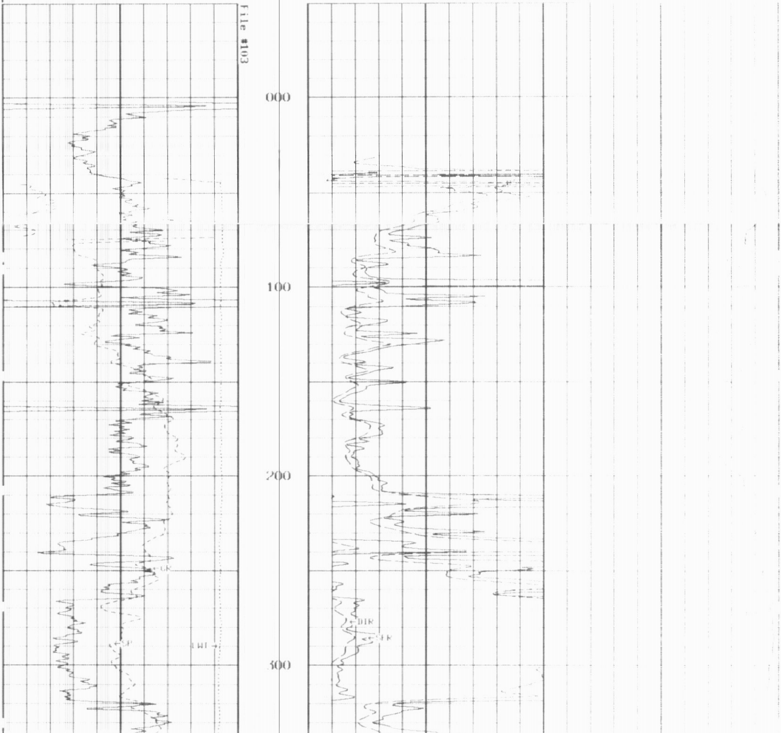
GAMMA RAY
API UNITS
200 400
0 200

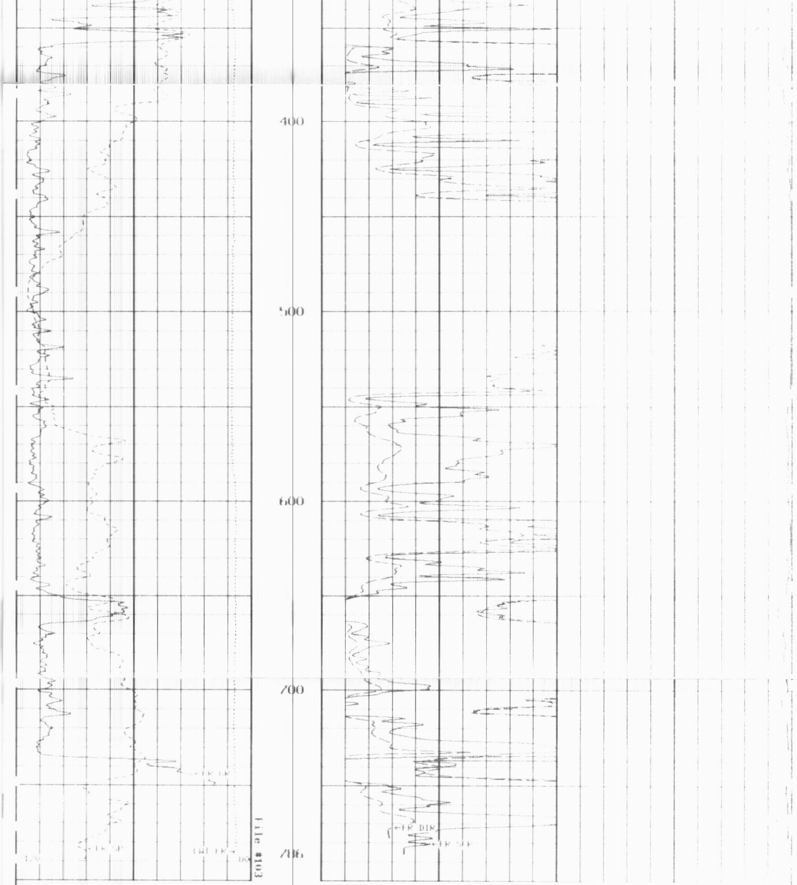
SHALLOW FOCUSED RESISTIVITY
OHMM
0.0 500.0
0.0 50.0

DEEP INDUCTION
OHMM
0.0 500.0
0.0 50.0

DEEP CONDUCTIVITY
MMHO
2000 1000
1000 0

1:600 SECTION





1:600 SECTION

GAMMA RAY
API UNITS
200 400
0 200

DEEP CONDUCTIVITY
MMHO
2000 1000
1000 0

SPONTANEOUS POTENTIAL
mV
→| |← 20

DEEP INDUCTION
OHMM
0.0 500.0
0.0 50.0

TENSION
LBS
10000 0

SHALLOW FOCUSED RESISTIVITY
OHMM
0.0 500.0
0.0 50.0

TENSION
LBS
10000 0

SHALLOW FOCUSED RESISTIVITY
OHMM
0.2 2000.0

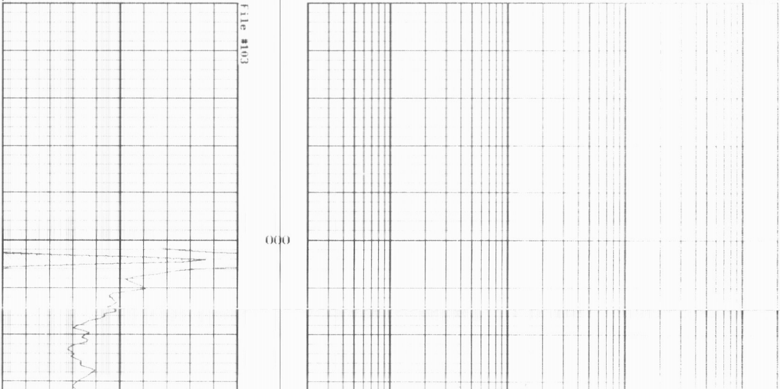
SPONTANEOUS POTENTIAL
mV
→| |← 20

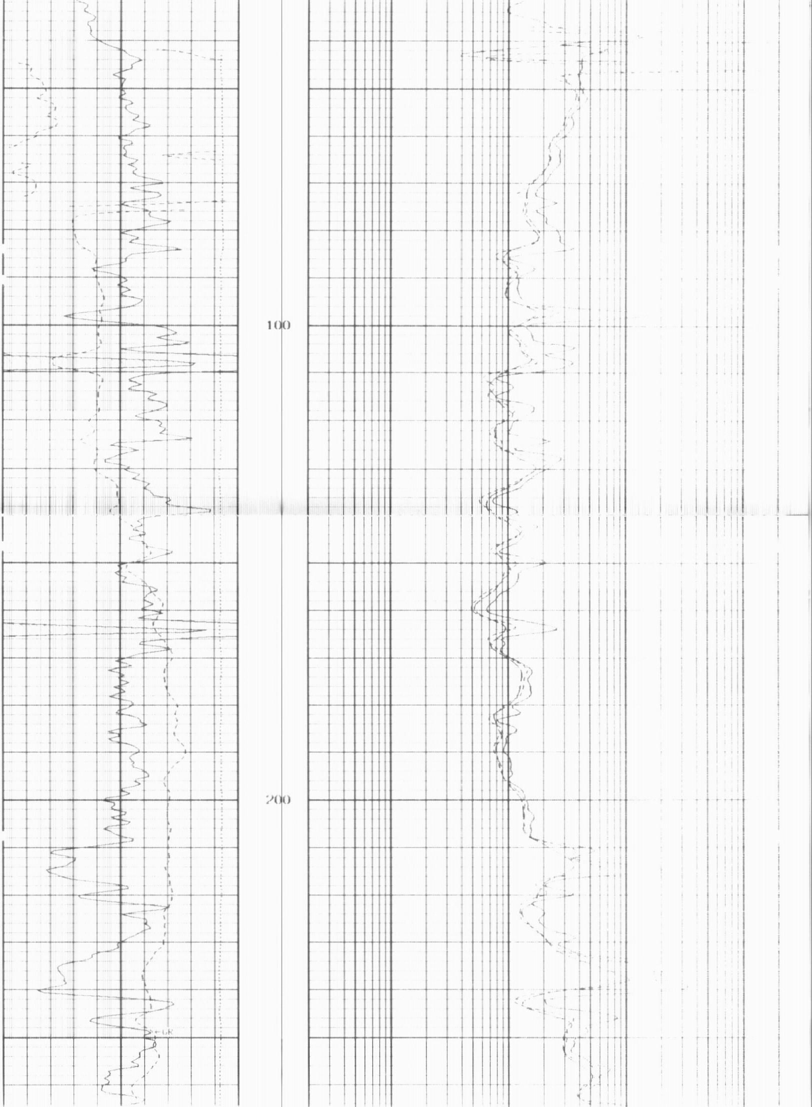
MEDIUM INDUCTION
OHMM
0.2 2000.0

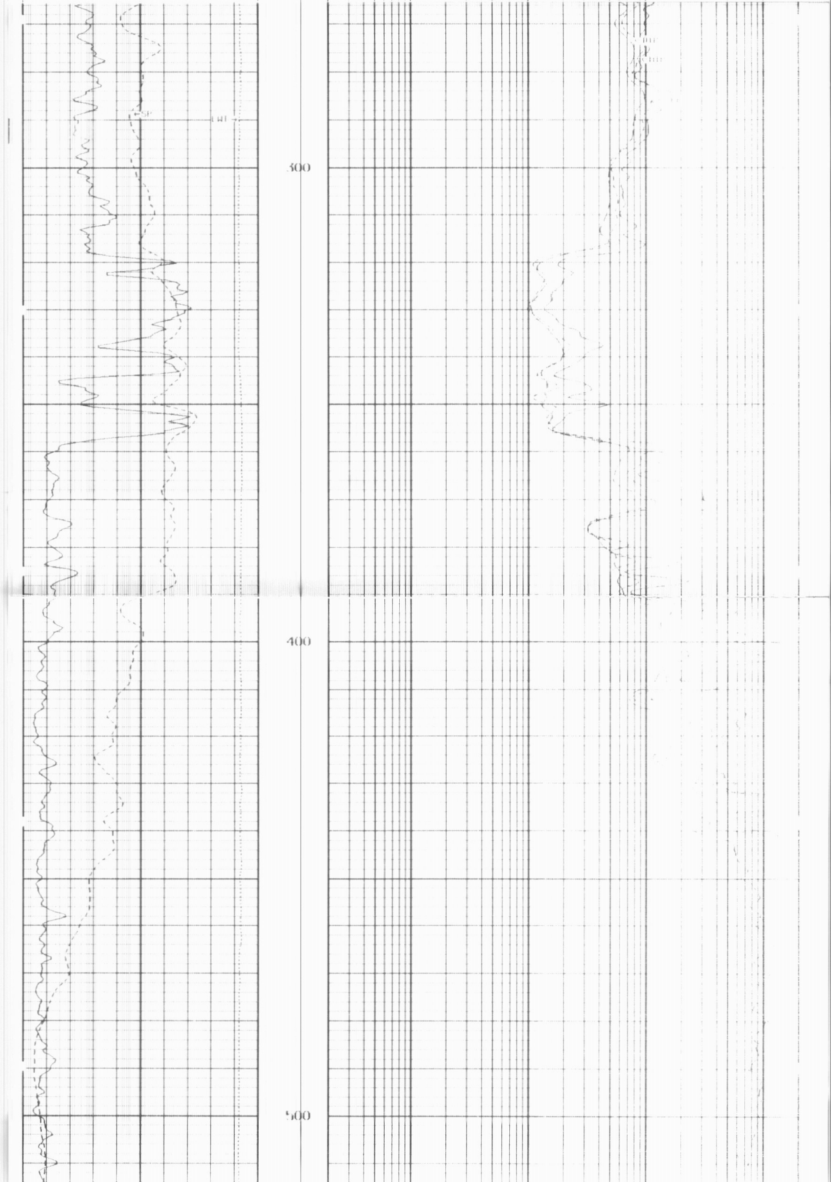
GAMMA RAY
API UNITS
200 400
0 200

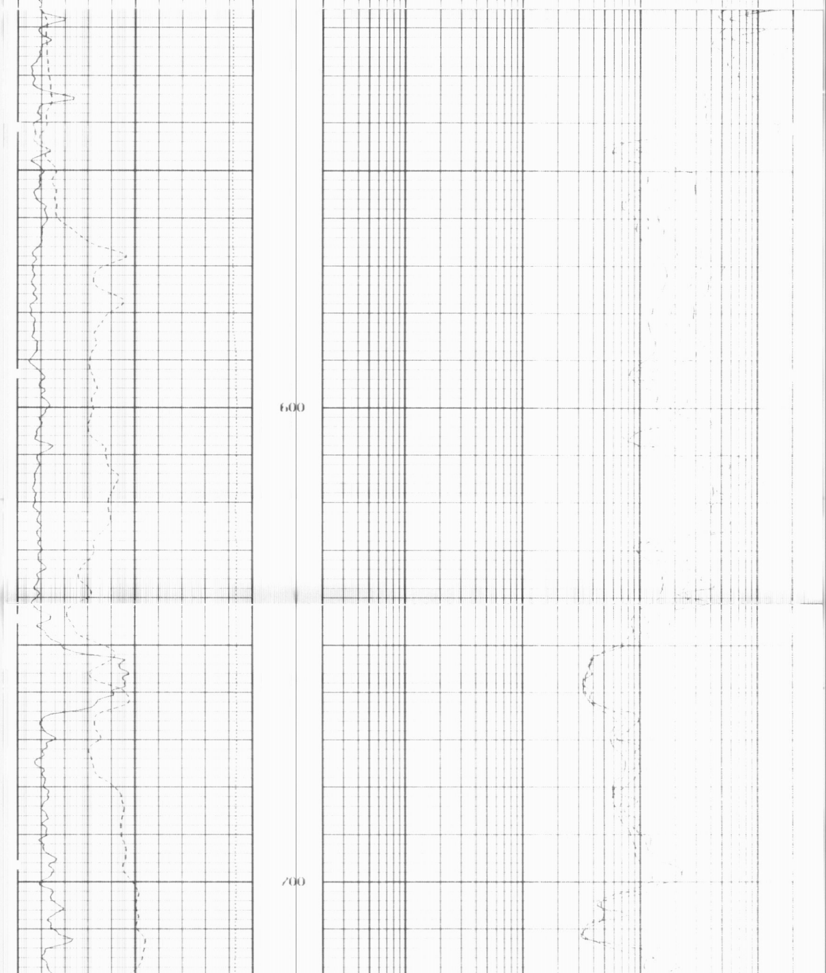
DEEP INDUCTION
OHMM
0.2 2000.0

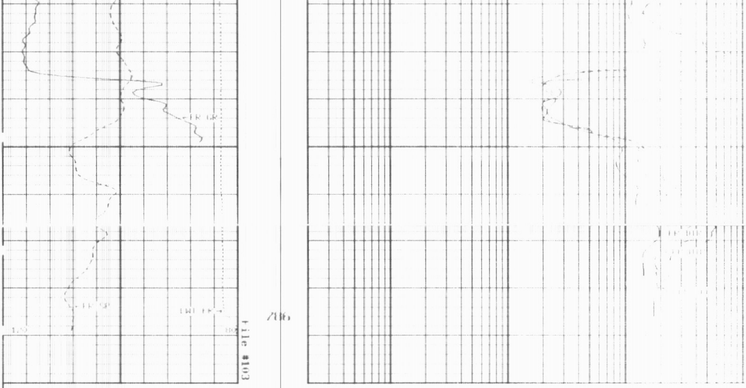
1:240 MAIN SECTION











1:240 MAIN SECTION

GAMMA RAY
API UNITS
200 | |400
0 200

DEEP INDUCTION
OHMM
0.2 [illegible]

SPONTANEOUS POTENTIAL
mV
→| |← 20

MEDIUM INDUCTION
OHMM
0.2 [illegible]

TENSION
LBS
10000 0

SHALLOW FOCUSED RESISTIVITY
OHMM
0.2 [illegible]

* Borehole Zone Factors *

Zone 1 99999.0 to 0.0 F

Drill Bit Size	7.875	IN
BHT Depth	786.000	F
Borehole Temperature	88.0	DEGF
Temperature Gradient	1.000	DEGF
Resistivity Of Mud	[illegible]	[illegible]
Resistivity Of Mud Temperature	[illegible]	DEGF

TENSION
LBS
10000 0

SHALLOW FOCUSED RESISTIVITY
OHMM
0.2 [illegible]

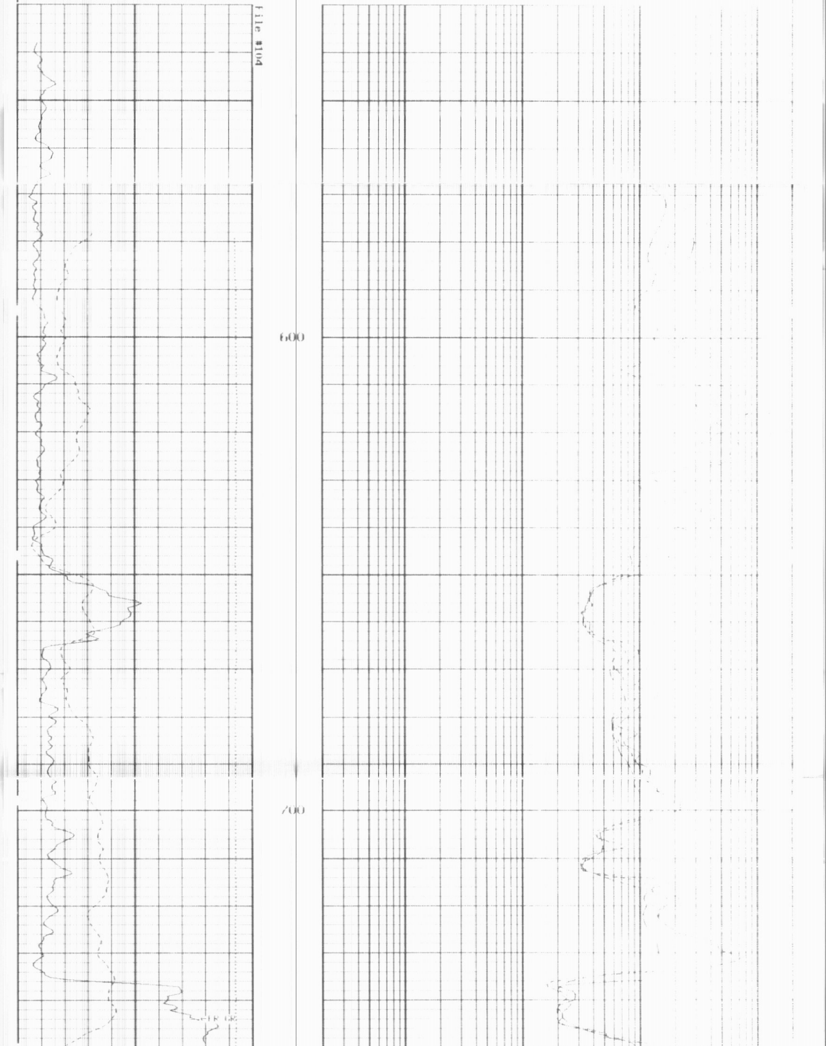
SPONTANEOUS POTENTIAL
mV
→| |← 20

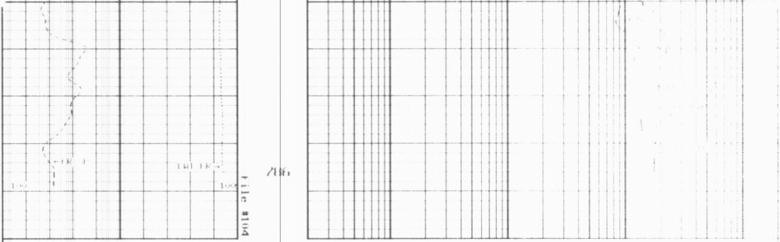
MEDIUM INDUCTION
OHMM
0.2 [illegible]

GAMMA RAY
API UNITS
200 | |400
0 200

DEEP INDUCTION
OHMM
0.2 [illegible]

1:240 REPEAT SECTION





1:240 REPEAT 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	[illegible]
BHT Depth	[illegible]
Borehole Temperature	[illegible]
Temperature Gradient	1.00 [illegible]
Resistivity Of Mud	[illegible]
Resistivity Of Mud Temperature	[illegible]

* Calibration Summary *

Shop Calibration
GRTB

Performed : 24 Apr 2008 Time : 10:1[illegible]
Sensor Serial : [illegible] ID : [illegible]

	Measured		Units	Calibrated	
	Background	Jig		Jig	
GR	41	314	CPS	175	GAPI

Shop Calibration
PTT

Performed : 2? May 2009 Time : 10:4[illegible]

```
Sensor Suite : P IND I                        ID : [illegible]

                              Medium
                 Measured                     Calibrated
                 R        X                   R          X          [illegible]
Air           131379   129999                 0,2        0,4        [illegible]
Zero          131066   131020                 0,0        0,0        [illegible]
Reference     251089   249276              5000,0     5000,0        [illegible]
Loop          152000   123857              2207,1      988,7        [illegible]
Sonde Error                                   8,8        17,8       [illegible]
Cond                                       5000,0     5000,0        [illegible]

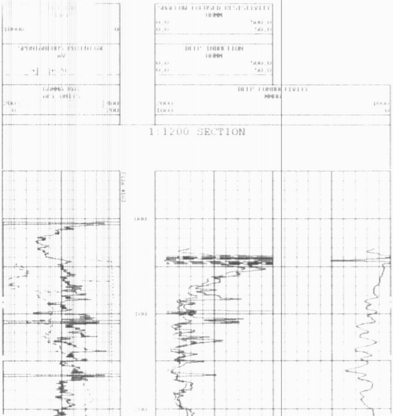
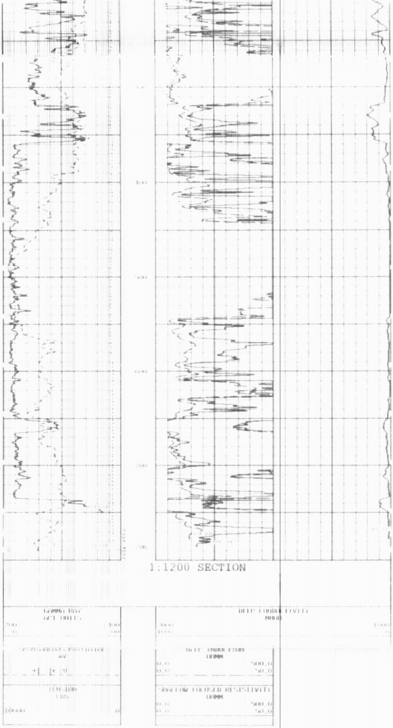
                               Deep
                 Measured                     Calibrated
                 R        X                   R          X          [illegible]
Air           128182   132552                 [illegible]
Zero          131080   131023                 [illegible]
Reference     235483   234923              [illegible]
Loop          149010   122282              [illegible]
Sonde Error                                   10,0       [illegible]
Cond                                       2000,0        [illegible]

                           Temperature
                 Measured                     Calibrated
                 Low      High                Low        High       [illegible]
              16980,0 56920,0                 [illegible]

   Performed : 22 May 2009                 Time : [illegible]
Sensor Suite : SN                             ID : [illegible]

                             Internal
                     Measured                 Calibrated
                 Zero     Reference           Zero     Reference    [illegible]
Im            32760,4     49632,3             0,0      2038,0       [illegible]
Ib            32776,0     48848,4             0,0      1250,0       [illegible]
MOM1          32798,6     52716,8             0,0       125,0       [illegible]
Equivalent SN                                           [illegible]

   Performed : 22 May 2009                 Time : 10:33
Sensor Suite : P SP                           ID : [illegible]

                             Internal
               Measured                       Calibrated
             Zero     Reference               Zero     Reference
          32790,8     58850,0                 0,0      1000,0
```