217-22401

Tucker
WIRELINE SERVICES

COMPENSATED NEUTRON
PEL DENSITY LOG

CONFIDENTIAL until 9-22-11

RECEIVED
SEP 22 2010
Mo Oil & Gas Counc

File No. : TUL-55643
Company : RUNNING FOXES PETROLEUM INC
Well : STONER 13-6C-3
Field : VERNON
County : MISSOURI
State : USA
Country :

Location : PERMIT: 22401
310' FSL & 210' FWL

Sect : 6 Twp : 36N Rge : 33W

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

Date : JUN 17 2010
Run No. : 1

Elevations :
KB :
DF :
GL : 910.00 FT

Permanent Datum : GL
Drilling Measured From : GL
Log Measured From : GL
Above Permanent Datum : 0.00 FT

Depth--Driller : 462.0 FT
Depth--Logger : 462.0 FT
Bottom Log Interval : 439.0 FT
Top Log Interval : 22.0 FT

Casing Depth--Driller : 22.0 FT
Casing Depth--Logger : 22.0 FT
Casing Diameter : 7.000 IN

Bit Size : 6.125 IN
Unit No. : 122
Location : TULSA

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	SG		
Viscosity :	0.000	SEC		
pH :	0.000			
Fluid Loss :	0.000			
Salinity :	0.000	KPPM		
RM Source :	MEASURED			
RM :	10.000	OHMM at	94	F
RM at BHT :	9.008	OHMM at	83	F
RMF Source :	CALCULATED			
RMF :	8.500	OHMM at	94	F
RMF at BHT :	7.656	OHMM at	83	F
RMC Source :	CALCULATED			
RMC :	11.500	OHMM at	94	F
RMC at BHT :	10.359	OHMM at	83	F
Max Recorded Temp. :			83	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
PIT	PIT-AB-14

Casing Strings

Size (IN)	Weight (LB/FT)	Bottom (FT)
7.000	32.00	22.00

- 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 4.500" PRODUCTION CASING.

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

OPERATORS:

K.AUSTIN
N.BURKE

THANK YOU FOR USING TUCKER WIRELINE SERVICES!

Tool String Schematic

Total Tool Length 43.29 ft.
Maximum Outside diameter 4.00 in.
Net Weight in Air 243.00 lbs.

Tool Zero

Tool: GRTB Length: 3.40 ft. O.D.: 3.60 in.
Sonde ID : GRT-BA-14

Measure Point	Stack Offset	Tool Offset	Bottom Offset
GRP	2.00	2.00	41.29

3.40 ft.

Tool: CNT Length: 9.30 ft. O.D.: 4.30 in.
Sonde ID : CNP-AA-116
Source ID : N-1044
Pad ID : CNP-AA-116

Measure Point	Stack Offset	Tool Offset	Bottom Offset
CLCN	9.40	6.00	33.89
PHIN	10.24	6.84	33.05

12.70 ft.

Tool: LDTNG Length: 9.30 ft. O.D.: 4.00 in.
Sonde ID : LDP-NG-02
Source ID : CSV-587
Pad ID : LDP-NG-02

Measure Point	Stack Offset	Tool Offset	Bottom Offset
CLLD	18.70	6.00	24.59
PEL	19.70	7.00	23.59
PES	20.10	7.40	23.19
LDEN	19.70	7.00	23.59
LDSS	19.70	7.00	23.59

22.00 ft.

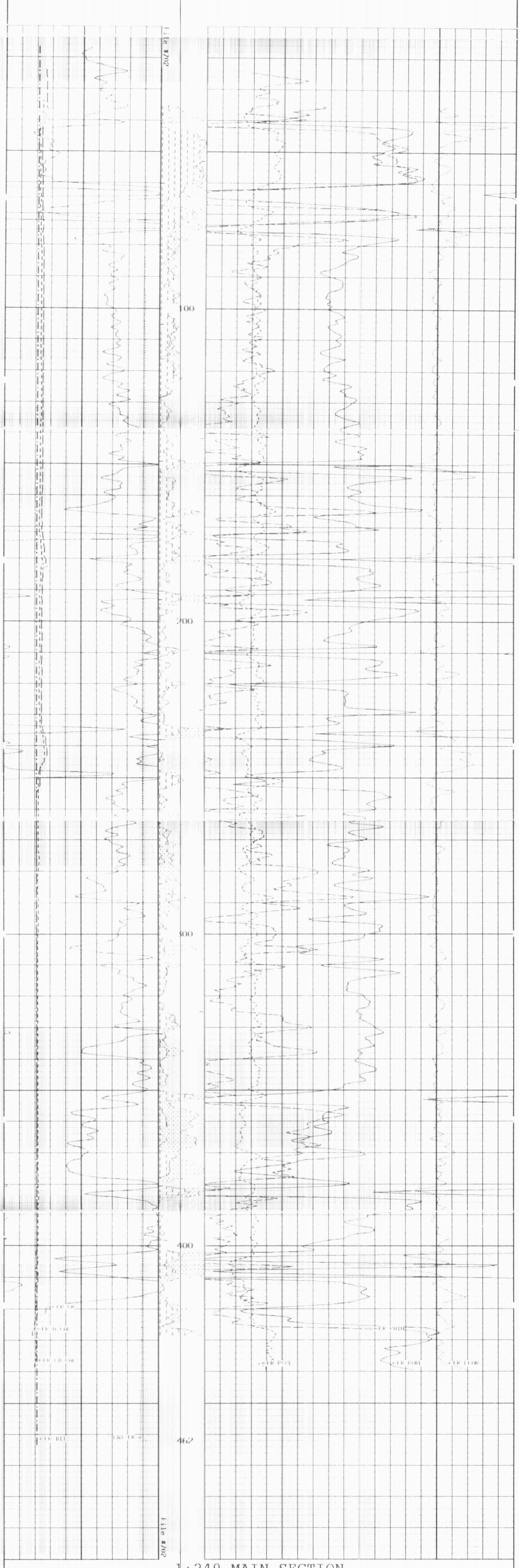
Tool: PIT Length: 21.29 ft. O.D.: 3.62 in.
Sonde ID : PIT-AB-14

Measure Point	Stack Offset	Tool Offset	Bottom Offset
ILD	30.97	8.97	12.32
ILM	32.10	10.10	11.19
SFLU	35.49	13.49	8.00
SP	42.60	20.60	0.69

43.29 ft.

TENSION LBS 10000 — 0			
BIT SIZE INCHES (IN) 4 — 14	Volume Quartz		
DENSITY (X) CALIPER INCHES (IN) 14 — 24; 4 — 14	Volume Calcite	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 Dolo/Shale	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- CU.FT	DENSITY POROSITY PERCENT (2.71 g/cc) 70 — 30; 30 — 10; 10 — 50	
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DENSITY (X) CALIPER INCHES (IN) 14 — 24; 4 — 14	Volume Calcite	PE CROSS SECTION BARNS/ELECTRON 0 — 10	DENSITY CORRECTION G/CC 0.25 — 0.25
BIT SIZE INCHES (IN) 4 — 14	Volume Quartz		
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
Production Casing Diameter	4.500 IN
Casing Correction (PHIN)	Disable

TENSION LBS 10000 — 0			
BIT SIZE INCHES (IN) 4 — 14	Volume Quartz		
DENSITY (X) CALIPER INCHES (IN) 14 — 24; 4 — 14	Volume Calcite	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 Dolo/Shale	NEUTRON POROSITY PERCENT (LIMESTONE MATRIX) 30 — 10	
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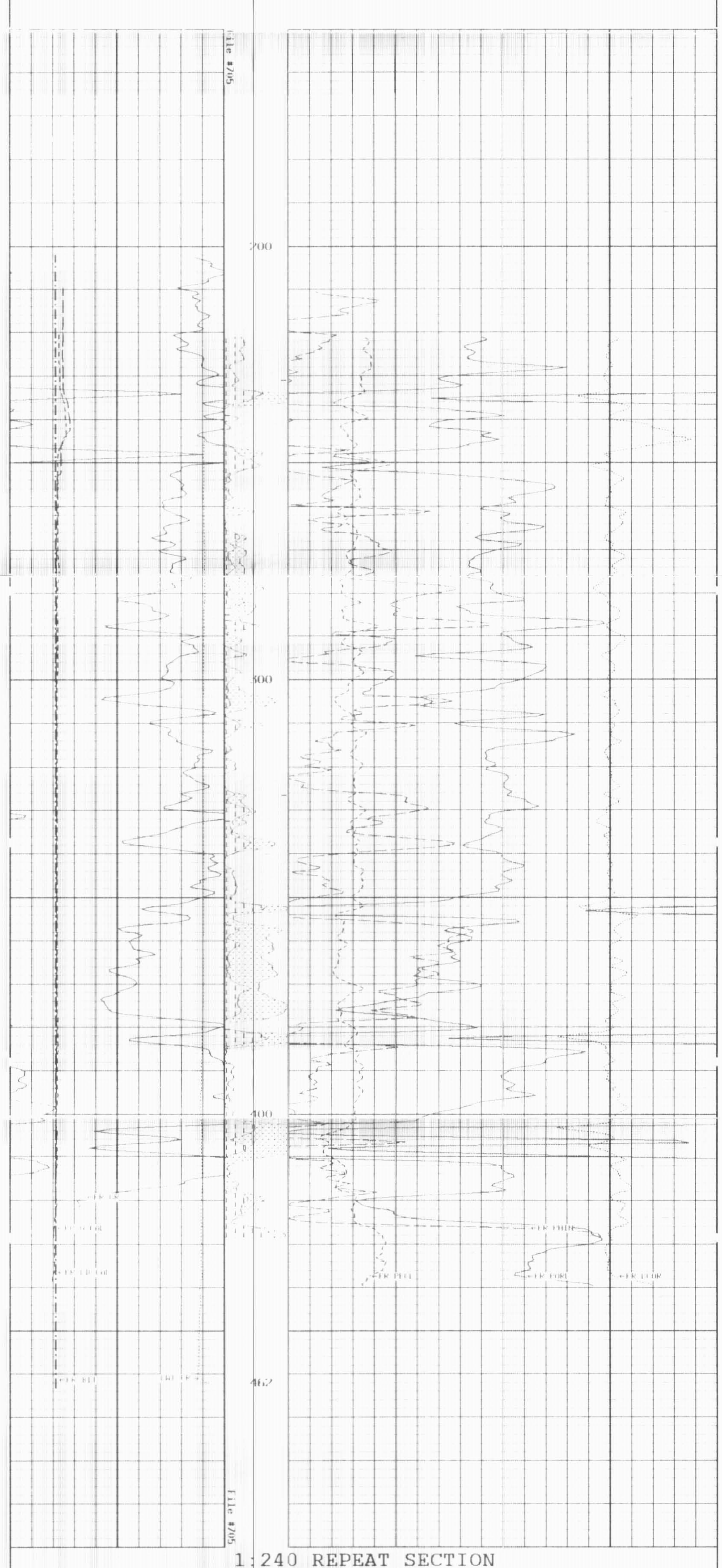
1:240 REPEAT SECTION



1:240 REPEAT SECTION

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	
NEUTRON (Y) CALIPER INCHES (IN) 14 — 24; 4 — 14	Volume Dolo/Shale	NEUTRON POROSITY PERCENT (LIMESTONE MATRIX) 30 — 10	
DENSITY (X) CALIPER INCHES (IN) 14 — 24; 4 — 14	Volume Calcite	PE CROSS SECTION BARNS/ELECTRON 0 — 10	DENSITY CORRECTION G/CC 0.25 — 0.25
BIT SIZE INCHES (IN) 4 — 14	Volume Quartz		
TENSION LBS 10000 — 0			

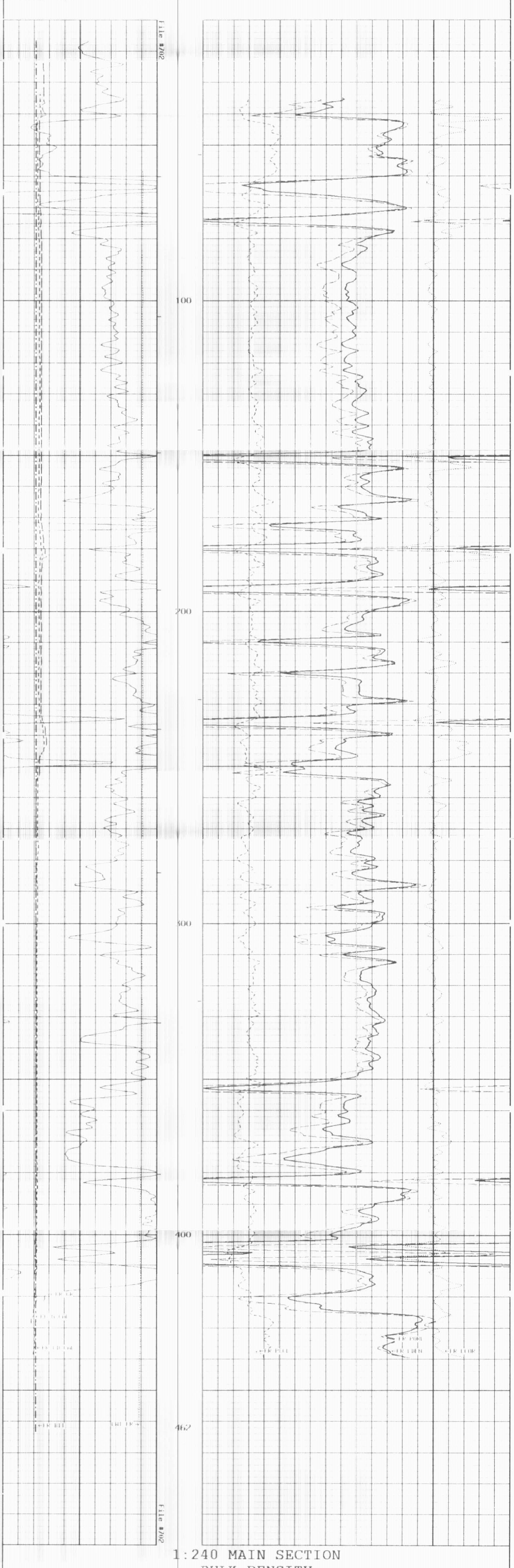
* Borehole Zone Factors *

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
Production Casing Diameter	4.500 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) 70 — 30; 30 — 10; 10 — 50	
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; 0 — 200	-BHV BHV- 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) 70 — 30; 30 — 10; 10 — 50	
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/C3
Fluid Density	1.00 G/C3
Formation Matrix	Limestone
Drill Bit Size	6.125 IN
Production Casing Diameter	4.500 IN
Casing Correction (PHIN)	Disable

* Calibration Summary *

Shop Calibration
GRTB

Performed : 21 Aug 2009 Time : 15:26
Sensor Suite : GR GRS ID : GRT-BA-14

	Background	Measured Ifg	Units	Calibrated Ifg	Units
GR	49	347	CPS	175	GRAPI

Shop Calibration
CNT

Performed : 05 May 2010 Time : 11:02
Sensor Suite : BH NEUT ID : CNP-AA-116
Source ID : N-1044

	Tank Measured	Calibrated	Verification Ifg	Units
N/F	3.8272	3.6901	3.7010	
Porosity	23.4	20.5	20.7	%

Performed : 07 MAR 2010 Time : 09:04
Sensor Suite : CALI BEN ID : CNP-AA-116

	Ifg Measured Ring#1	Ring#2	Ifg Calibrated Ring#1	Ring#2	Units
CL # 1	8.2	14.2	6.0	12.0	IN.

Shop Calibration
LDTNG

Performed : 14 APR 2009 Time : 14:57
Sensor Suite : CALIPER ID : LDP-NG-02

	Ifg Measured Ring#1	Ring#2	Ifg Calibrated Ring#1	Ring#2	Units
CL # 1	6.8	12.8	6.0	12.0	IN.

Performed : 05 May 2010 Time : 09:47
Sensor Suite : DENSITY ID : LDP-NG-02
Source ID : CSV-587

Short Space

	BKGD	Al	Mg	Alcoa	Units
SSW1	21	482	722	373	CPS
SSW2	23	584	933	417	CPS
SSW3	292	1452	2281	1232	CPS
SSW4	370	1392	1931	1232	CPS
SSW5	35	45	467	44	CPS
SSW6	96	92	967	88	CPS
SSW7	60	62	61	61	CPS
SSW8	2	3	3	3	CPS
QS	0.231	0.220	0.228	0.233	
PES			2.228	5.967	
SSDN		2.600	1.680		G/CC

Long Space

	BKGD	Al	Mg	Alcoa	Units
LLW1	109	629	2543	392	CPS
LLW2	123	1084	4422	714	CPS
LLW3	456	2105	7702	1017	CPS
LLW4	600	1229	3164	1132	CPS
LLW5	66	71	187	70	CPS
LLW6	197	190	184	191	CPS
LLW7	119	122	116	121	CPS
LLW8	3	5	10	5	CPS
QL	0.247	0.218	0.227	0.224	
PEL			2.697	5.438	
LSDN		2.600	1.680		G/CC