SUPERIOR WELL SERVICES

SUPERIOR
Black Lick, Pa.
Mercer, Pa.
Wooster, Oh.
Cleveland, Ok.
Trinidad, Co.

SINGLE INDUCTION LOG

Company	Pioneer Natural Resources
Well	Triumph 13-10 Tr
Field	Purgatoire River
County	Las Animas
State	Colorado

Company Pioneer Natural Resources
Well Triumph 13-10 Tr
Field Purgatoire River
County Las Animas State Colorado

Location: API # : 05 071 09188 00
1485' FSL & 469' FWL
SEC 10 TWP 32S RGE 66W

Other Services
SIL

Permanent Datum Ground Level Elevation 7343'
Log Measured From Kelly Bushing 4' Above G.L.
Drilling Measured From Kelly Bushing

Elevation
K.B. 7347'
D.F. -----
G.L. 7343'

Date	4-04-07		
Run Number	One		
Depth Driller	1695'		
Depth Logger	1692'		
Bottom Logged Interval	1690'		
Top Log Interval	Surface Casing		
Casing Driller	511'		
Casing Logger	510'		
Bit Size	7 7/8"		
Type Fluid in Hole	Water		
Density / Viscosity	///		
pH / Fluid Loss	///		
Source of Sample	///		
Rm @ Meas. Temp	///		
Rmf @ Meas. Temp	///		
Rmc @ Meas. Temp	///		
Source of Rmf / Rmc	///		
Rm @ BHT	///		
Time Circulation Stopped	9:00 A.M.		
Time Logger on Bottom	11:00 A.M.		
Maximum Recorded Temperature	94 DEG F		
Equipment Number	T697		
Location	Trinidad		
Recorded By	M. Norton		
Witnessed By	Mr. Jim Whitehead		

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

Well Directions:
Gulnare left at the gravel pit, right acroos thed creek, stay staight up Healy hill,
at bottom at 4-way stay left, thru gate (0000), first right, first left towards the Croc,
first left to location well on left hand side.

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Main Pass

Database File: triumphtr.db
Dataset Pathname: pass2.1
Presentation Format: iel
Dataset Creation: Wed Apr 04 11:57:22 2007 by Calc Open-Cased 061129
Charted by: Depth in Feet scaled 1:240

0	GR (GAPI)	200	0.2	DIR (Ohm-m)	2000
-100	SP (mV)	100	0.2	SN (Ohm-m)	2000

0	GR (GAPI)	200	0.2	DIR (Ohm-m)	2000
-100	SP (mV)	100	0.2	SN (Ohm-m)	2000

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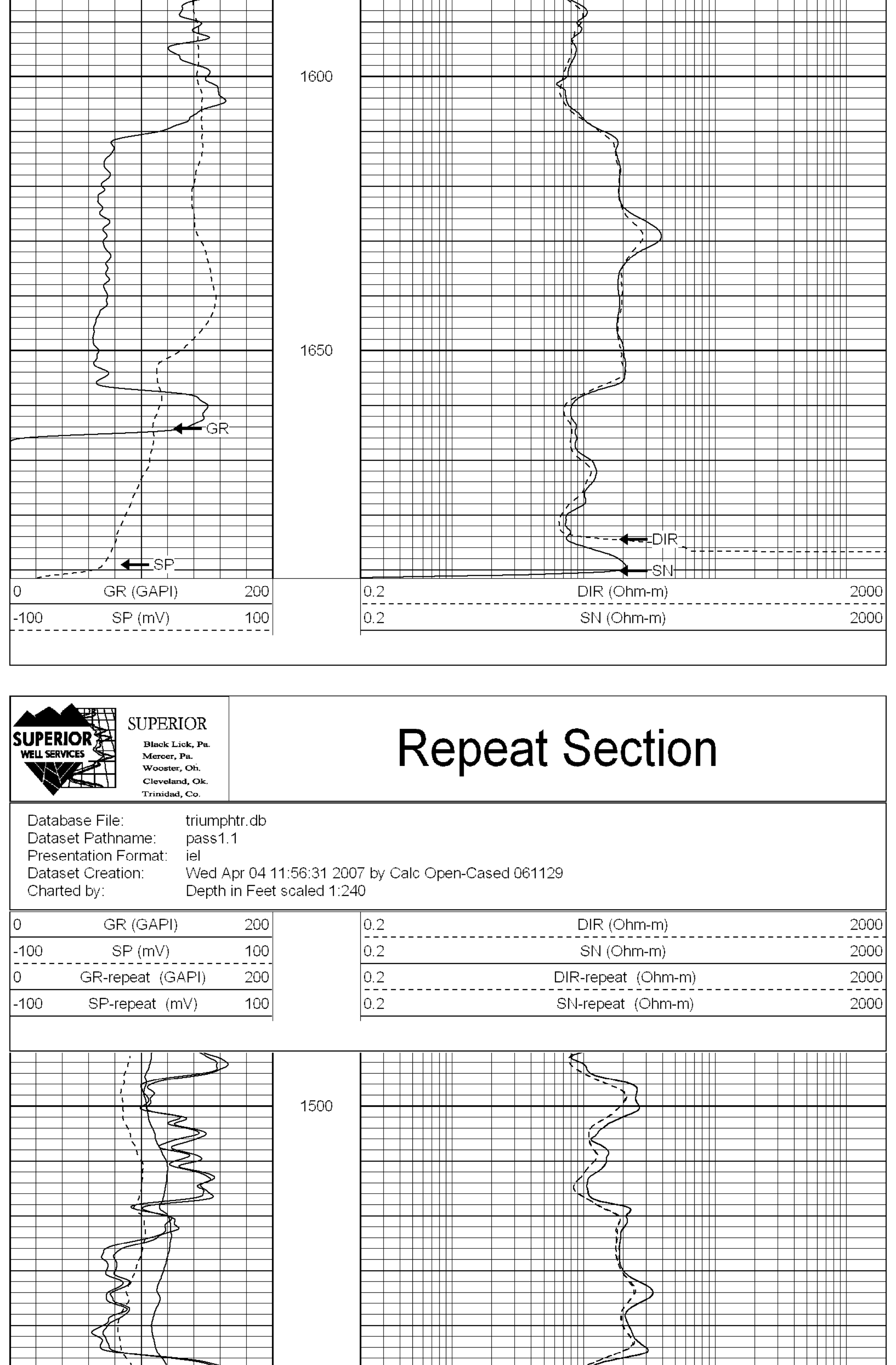
Repeat Section

Database File: triumphtr.db
Dataset Pathname: pass1.1
Presentation Format: iel
Dataset Creation: Wed Apr 04 11:56:31 2007 by Calc Open-Cased 061129
Charted by: Depth in Feet scaled 1:240

0	GR (GAPI)	200	0.2	DIR (Ohm-m)	2000
-100	SP (mV)	100	0.2	SN (Ohm-m)	2000
0	GR-repeat (GAPI)	200	0.2	DIR-repeat (Ohm-m)	2000
-100	SP-repeat (mV)	100	0.2	SN-repeat (Ohm-m)	2000



0	GR (GAPI)	200	0.2	DIR (Ohm-m)	2000
-100	SP (mV)	100	0.2	SN (Ohm-m)	2000
0	GR-repeat (GAPI)	200	0.2	DIR-repeat (Ohm-m)	2000
-100	SP-repeat (mV)	100	0.2	SN-repeat (Ohm-m)	2000

Calibration Report

Database File: triumphtr.db
Dataset Pathname: pass2
Dataset Creation: Wed Apr 04 10:08:54 2007 by Log Open-Cased 061129

Induction Tool Calibration Report

Serial Number: 116
Tool Model: G
Downhole Cal Performed: Fri Mar 16 07:49:33 2007
Surface Cal Performed: Fri Mar 16 07:48:59 2007
After Survey Verification Performed:

Surface Calibration:	Air	Loop	
Conductivity Reference:	0.000	500.000	mmho
Conductivity Reading:	0.003	0.642	V
Internal Reference:	Zero	Cal	
Conductivity Reference:	0.000	550.000	mmho
Conductivity Reading:	0.003	0.642	V
Downhole Calibration:	Internal Zero	Internal Cal	
Conductivity Reference:	-0.086	500.048	mmho
Conductivity Reading:	0.062	500.043	V
Short Normal Reference:	0.000	17.000	Ohm-m
Short Normal Reading:	-0.000	0.192	V
Results:	Gain	Offset	
Loop Conductivity:	783.009	-2.609	
Downhole Correction:	1.000	-0.148	
Short Normal Resistivity:	55.000	0.000	

Compensated Density Calibration Report

Serial-Model: 2118-poilex
Source / Verifier: /
Master Calibration Performed: Thu Mar 08 14:44:34 2007

Master Calibration

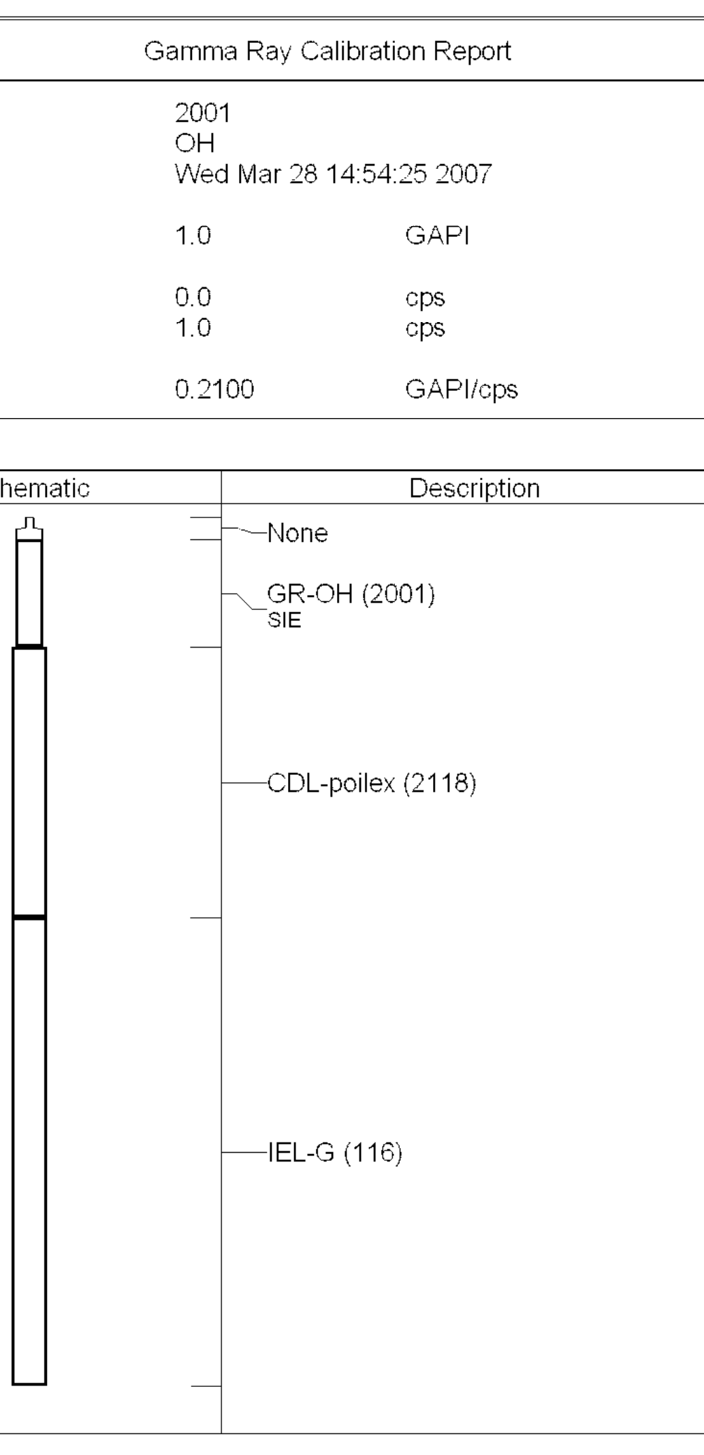
	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	665.94	685.05	cps
Aluminum	2.590	g/cc	149.68	463.33	cps

Spine Angle = 75.32
Density/Spine Ratio = 0.570

	Size		Reading	
Small Ring	7.85	in	4.60	V
Large Ring	14.00	in	9.25	V

Gamma Ray Calibration Report

Serial Number:	2001	
Tool Model:	OH	
Performed:	Wed Mar 28 14:54:25 2007	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.2100	GAPI/cps



Sensor	Offset (ft)	Description	Len (ft)	OD (in)	Wt (lb)
		None	0.75	1.50	5.00
GR	26.04	GR-OH (2001) SIE	3.50	3.25	40.00
LSD DCAL SSD	17.88 17.46 17.33	CDL-poilex (2118)	8.79	4.00	275.00
DIC	6.89	IEL-G (116)	15.25	4.00	178.00
SP SN	1.50 1.00				

Dataset: triumphtr.db: field/well/run1/pass2
Total Length: 28.29 ft
Total Weight: 498.00 lb
O.D.: 4.00 in