PSI PHOENIX SURVEYS, INC.

COMPENSATED DENSITY
COMPESATED NEUTRON
DUAL INDUCTION

Company	Blue Chip Oil, Inc.
Well	Jervis 21-14
Field	Wattenberg
County	Weld
State/Province	Colorado
Location	480' FNL & 2147' FWL NE NW Sec. 14, Twp. 2N, Rge. 64W

Other Services
Density
Neutron

Elevation
K.B. 4961
D.F. 4960
G.L. 4949

Company
Well
Field
County
State/Prv

Permanent Datum	GL	Elevation	4949
Log Measured From	KB		
Drilling Measured From	KB		

Date	May 28, 2005		
Run Number	1		
Depth Driller	7811		
Depth Logger	7805		
Bottom Logged Interval	7805		
Top Log Interval	Casing		
Casing Driller	1087		
Casing Logger	1100		
Bit Size	7 7/8"		
Type Fluid in Hole	Chem Gel		
Density / Viscosity	9.6 / 59		
pH / Fluid Loss	8.0 / 7.2		
Source of Sample	Flowline		
Rm @ Meas. Temp	2.71 @ 72 °F		
Rmf @ Meas. Temp	2.11 @ 72 °F		
Rmc @ Meas. Temp	3.38 @ 72 °F		
Source of Rmf / Rmc	Measure / Calc		
Rm @ BHT	1.03 @ 216 °F		
Time Circulation Stopped	4:00		
Time Logger on Bottom	13:30		
Maximum Recorded Temperature	216 °F		
Equipment Number	4078		
Location	Brighton, CO		
Recorded By	Peter Dhaliwal		
Witnessed By	Chris Katselas	Tim Hager	

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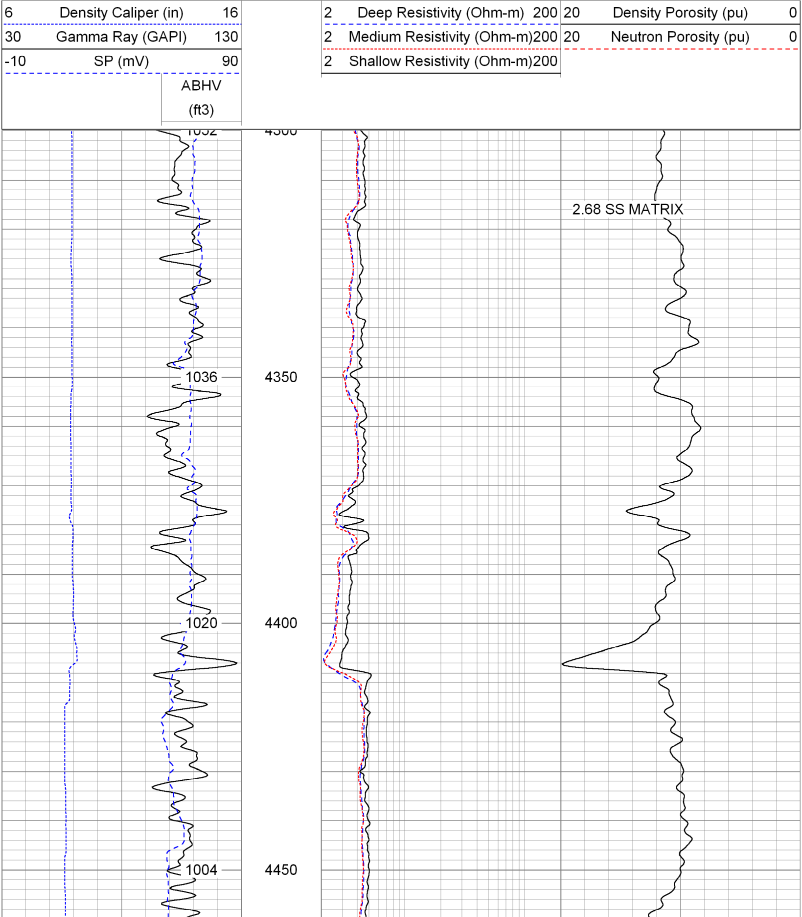
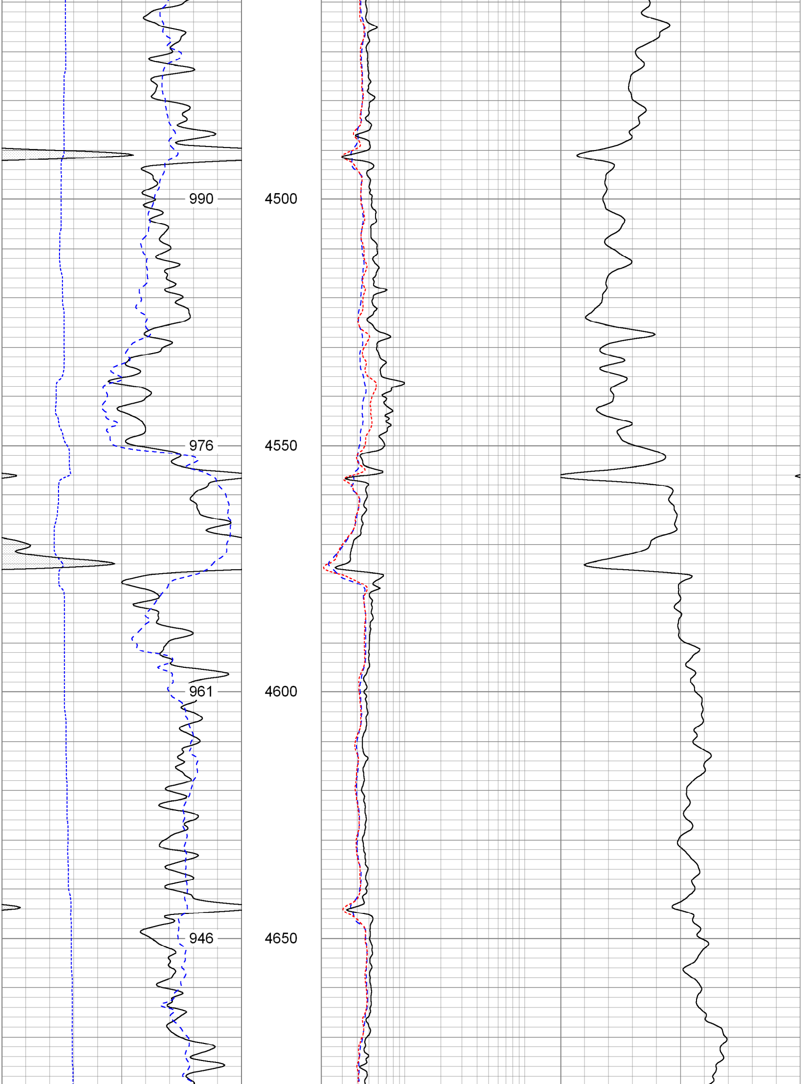
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

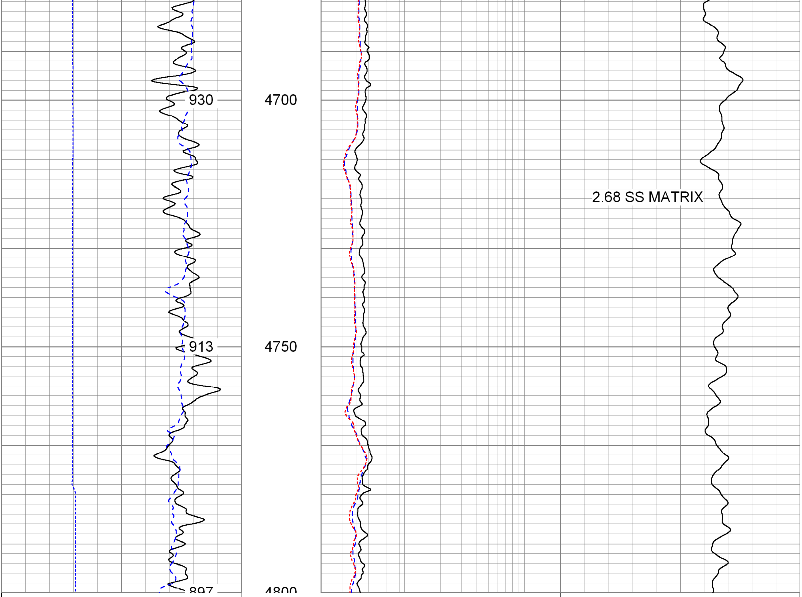
Comments

Annular volume calculated for 4.5" casing
Patterson 189
Thank you for using Phoenix Surveys!!
API #: 05-123-22980-00

Database File: 5243.db
Dataset Pathname: pass3
Presentation Format: pdc1
Dataset Creation: Sat May 28 11:01:48 2005 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:240



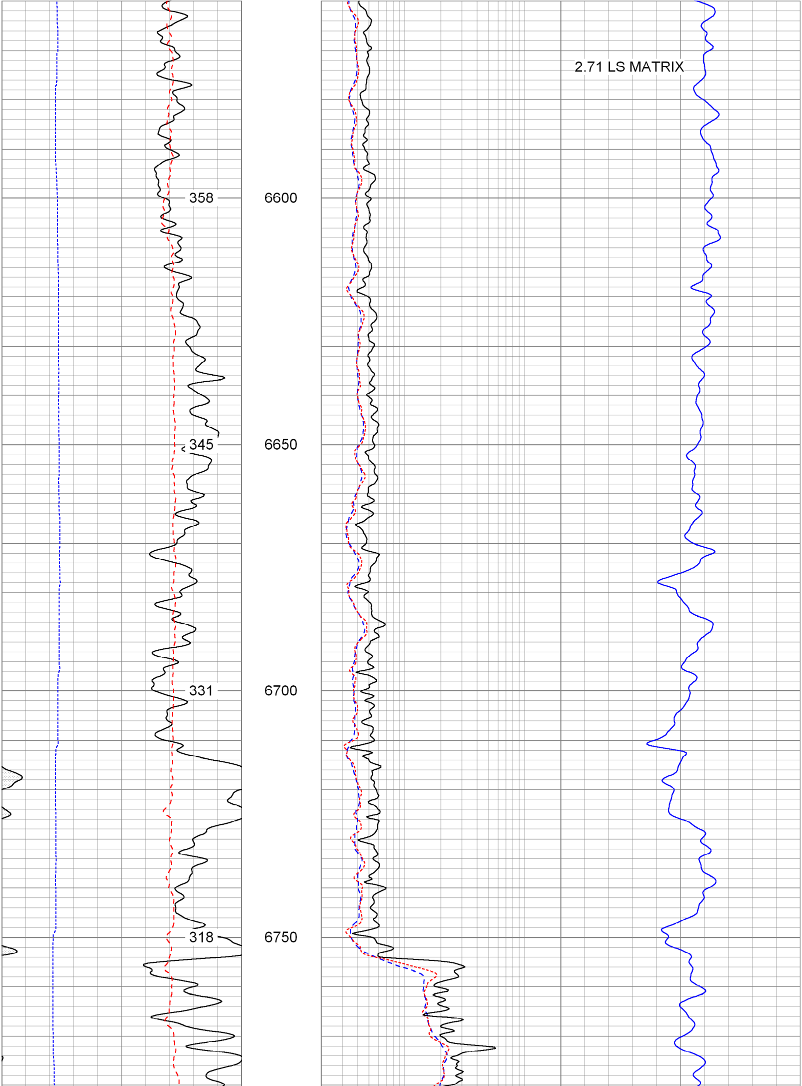


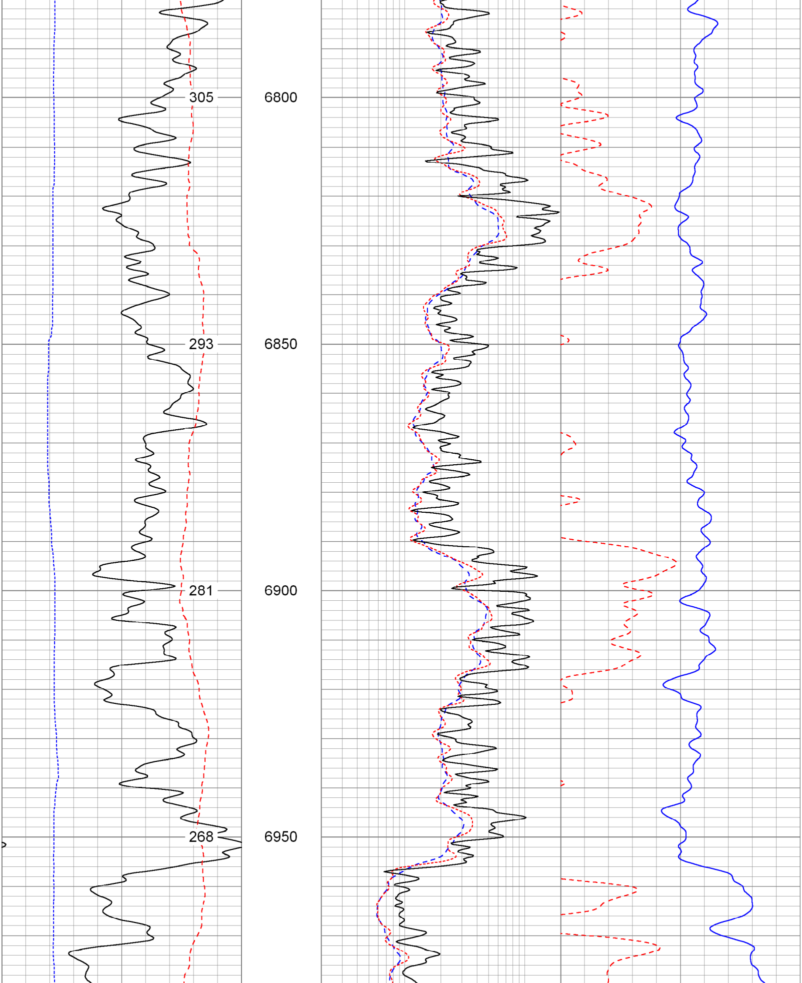


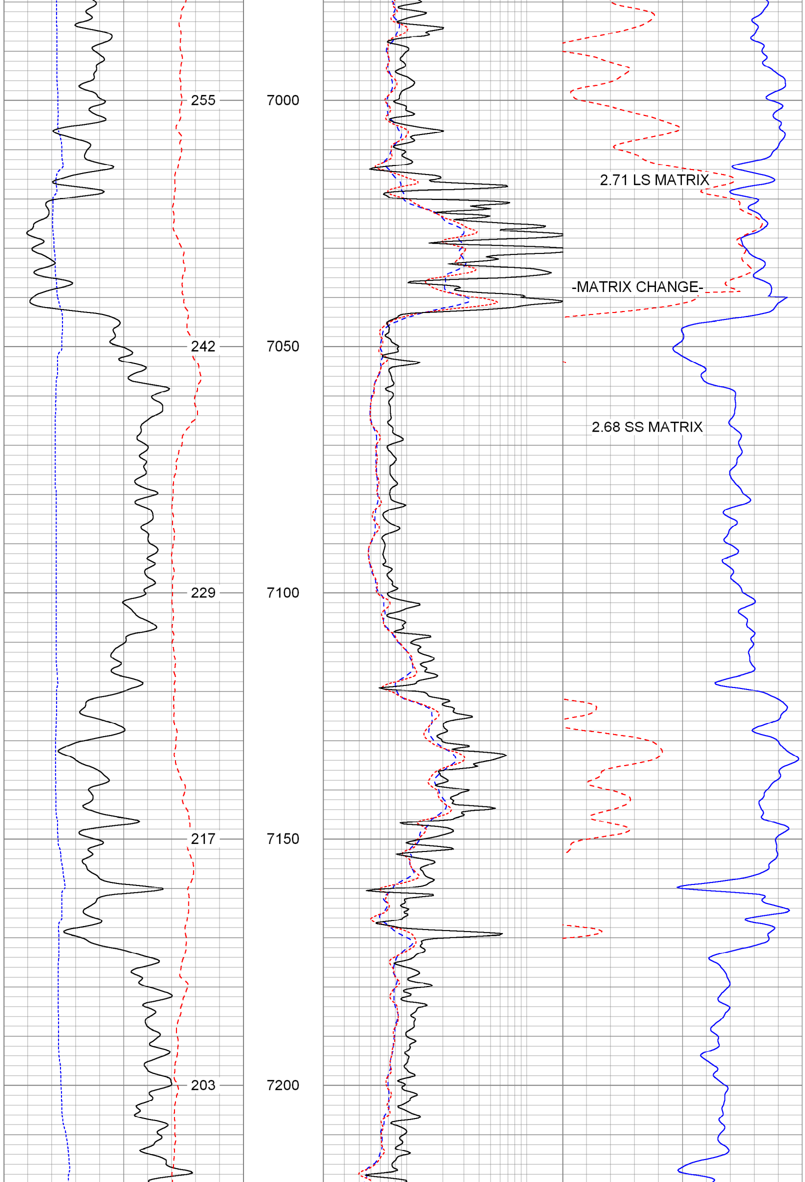
6	Density Caliper (in)	16	2	Deep Resistivity (Ohm-m)	200	20	Density Porosity (pu)	0
30	Gamma Ray (GAPI)	130	2	Medium Resistivity (Ohm-m)	200	20	Neutron Porosity (pu)	0
-10	SP (mV)	90	2	Shallow Resistivity (Ohm-m)	200			
	ABHV (ft3)							

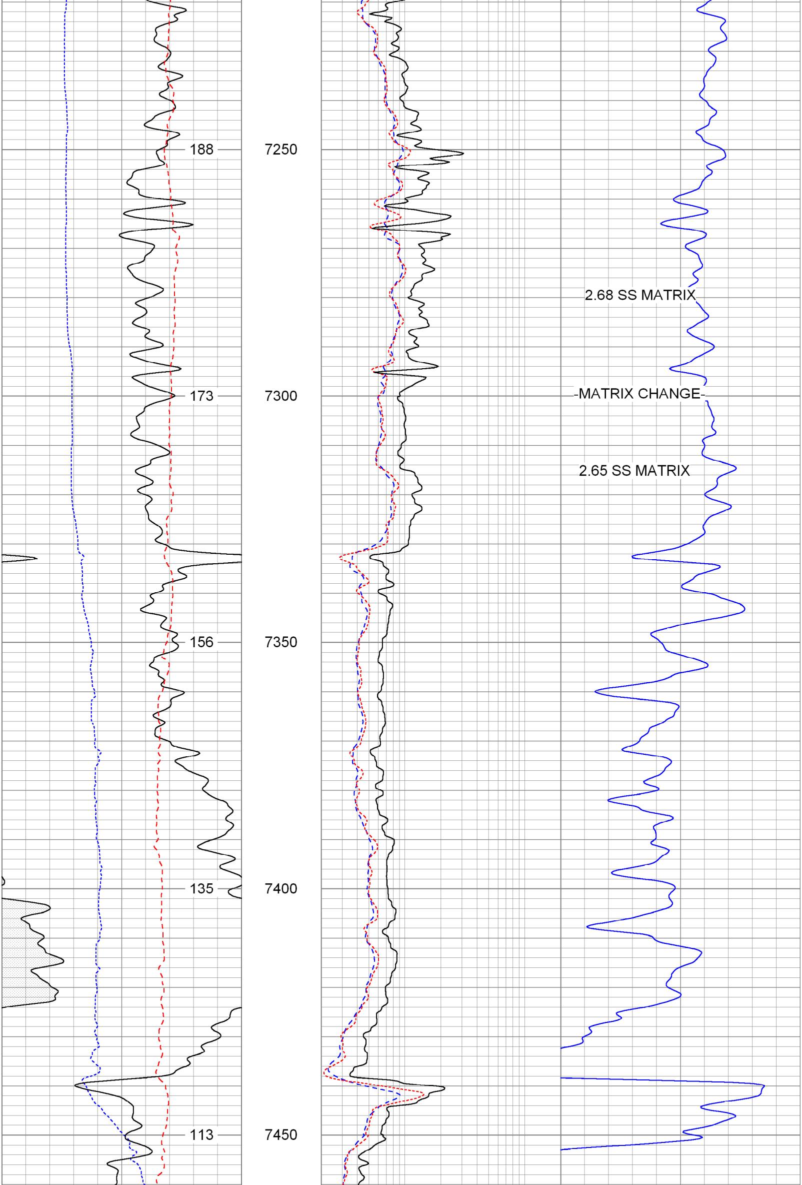
Database File: 5243.db
Dataset Pathname: final1
Presentation Format: pdc
Dataset Creation: Sat May 28 13:34:16 2005
Charted by: Depth in Feet scaled 1:240

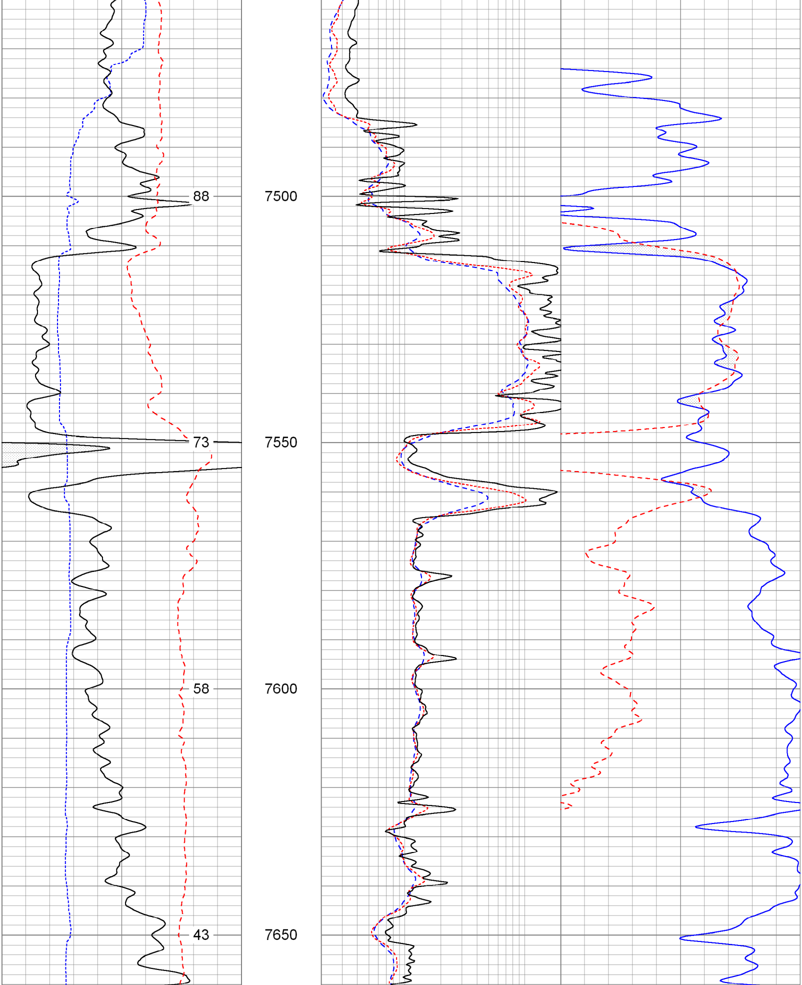
6	Caliper (in)	16	2	Deep Resistivity (Ohm-m)	200	20	Density Porosity (pu)	0
0	Gamma Ray (GAPI)	200	2	Medium Resistivity (Ohm-m)	200	20	Neutron Porosity (pu)	0
0	SP (mV)	200	2	Shallow Resistivity (Ohm-m)	200			
	ABHV (ft3)							

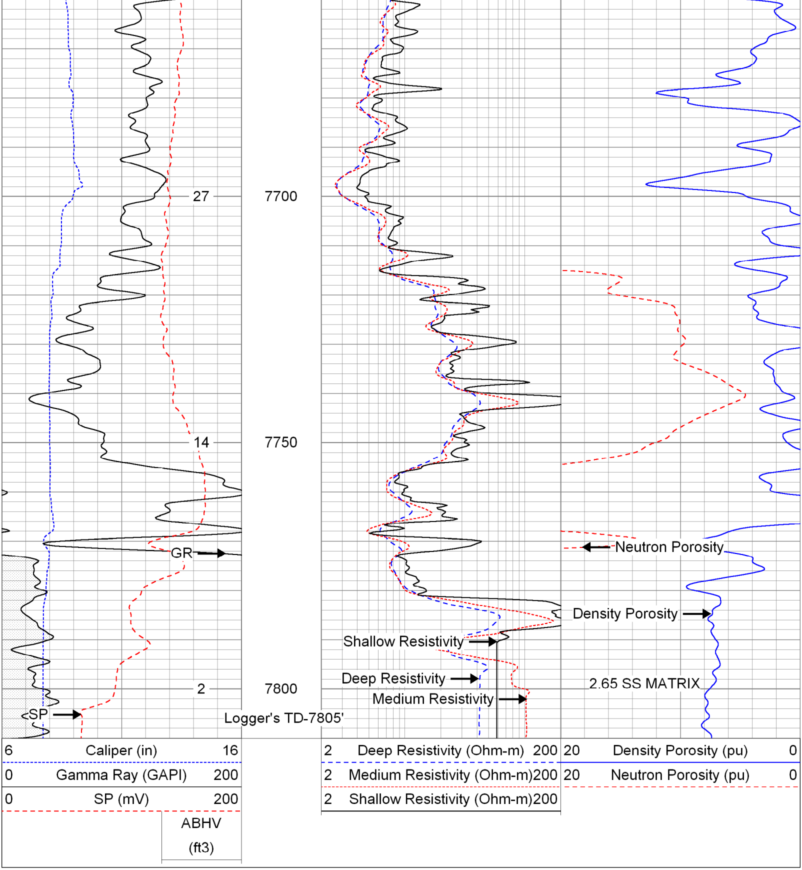












Calibration Report

Database File: 5243.db
Dataset Pathname: pass1
Dataset Creation: Sat May 28 10:23:55 2005 by Log 6.2_B4

Dual Induction Calibration Report

Serial-Model: 246-PSI
Surface Cal Performed:

	Readings		References			Results	
Loop:	Air	Loop	Air	Loop		m	b
Deep	92.156	421.369	4.000	250.000	mmho-m	0.560	-36.000
Medium	96.782	328.562	10.000	110.000	mmho-m	0.370	-27.000

Compensated Density Calibration Report

Serial-Model: 203-PSI
Source / Verifier: Tex / IH
Master Calibration Performed: Thu Feb 03 22:00:02 2005
Before Survey Verification Performed:
After Survey Verification Performed:

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.750	g/cc	7053.84	8349.51	cps
Aluminum	2.685	g/cc	1299.22	5360.61	cps

Spine Angle = 75.32

Density/Spine Ratio = 0.535

	Size		Reading
Small Ring	6.25	in	1.92
Large Ring	14.50	in	1.74

Before Survey Verification

Target		Measured	
	g/cc		g/cc
	g/cc		g/cc
	g/cc		g/cc

After Survey Verification

Target		Measured	
	g/cc		g/cc
	g/cc		g/cc
	g/cc		g/cc

Compensated Neutron Calibration Report

Serial Number: 43
Tool Model: PSI

CALIBRATION

Detector	Readings		Target		Normalization
Short Space	1.00	cps	1.00	cps	1.9000
Long Space	1.00	cps	1.00	cps	2.1700

PRE-SURVEY VERIFICATION

	Detector	Readings	Measured	Target
1)	Short Space	cps		
	Long Space	cps	pu	pu
2)	Short Space	cps		
	Long Space	cps	pu	
3)	Short Space	cps		
	Long Space	cps	pu	

POST-SURVEY VERIFICATION

	Detector	Readings	Measured	Target
1)	Short Space	cps		
	Long Space	cps	pu	pu
2)	Short Space	cps		
	Long Space	cps	pu	pu
3)	Short Space	cps		
	Long Space	cps	pu	pu

Gamma Ray Calibration Report

Serial Number:	197	
Tool Model:	PSI	
Performed:	Tue Apr 05 14:26:16 2005	
Calibrator Value:	195	GAPI
Background Reading:	22	cps
Calibrator Reading:	320	cps
Sensitivity:	0.53	GAPI/cps