PHOENIX SURVEYS, INC.

COMPENSATED DENSITY COMPENSATED NEUTRON DUAL INDUCTION

Company
Well
Field
County
State/Prv

Company	Blue Chip Oil, Inc.		
Well	Katie 11-22		
Field	Wattenberg		
County	Weld	State/Province	Colorado

Location
460' FNL & 460' FWL
NW NW
Sec. - 22. Twp - 5N, Rge - 67W

Other Services
None

Permanent Datum
Log Measured From
Drilling Measured From

Elevation 5051

Elevation
K.B. 5063
D.F. 5062
G.L. 5051

Date	January 19, 2005		
Run Number	1		
Depth Driller	7865		
Depth Logger	7858		
Bottom Logged Interval	7858		
Top Log Interval	Casing		
Casing Driller	672		
Casing Logger	672		
Bit Size	7 7/8"		
Type Fluid in Hole	Chem Gel		
Density / Viscosity	9.7 / 61		
pH / Fluid Loss	9.0 / 6.8		
Source of Sample	Mud Pit		
Rm @ Meas. Temp	3.80 @ 65° F		
Rmf @ Meas. Temp	2.85 @ 65° F		
Rmc @ Meas. Temp	4.75 @ 65° F		
Source of Rmf / Rmc	Measured / Calc.		
Rm @ BHT	1.17 @ 212° F		
Time Circulation Stopped	00:45		
Time Logger on Bottom	08:30		
Maximum Recorded Temperature	212° F		
Equipment Number	4041		
Location	Brighton		
Recorded By	Shaun Schuman		
Witnessed By	Tim Hager	Dean Rogers	Chris Katselas

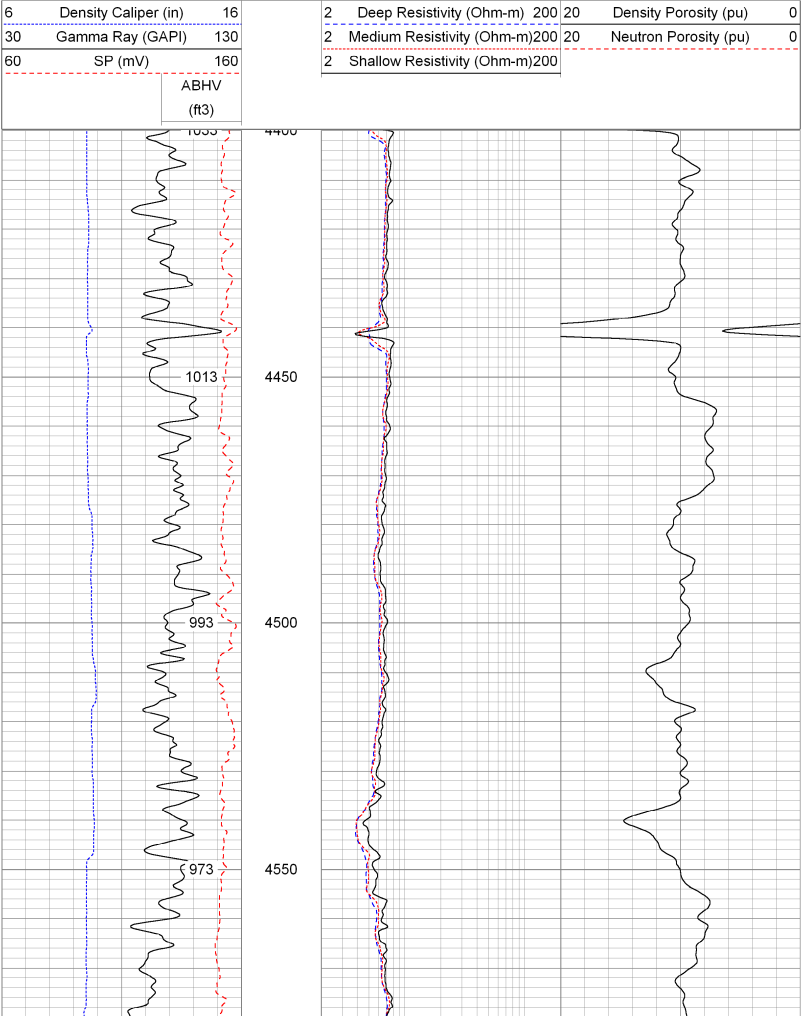
<<< Fold Here >>>

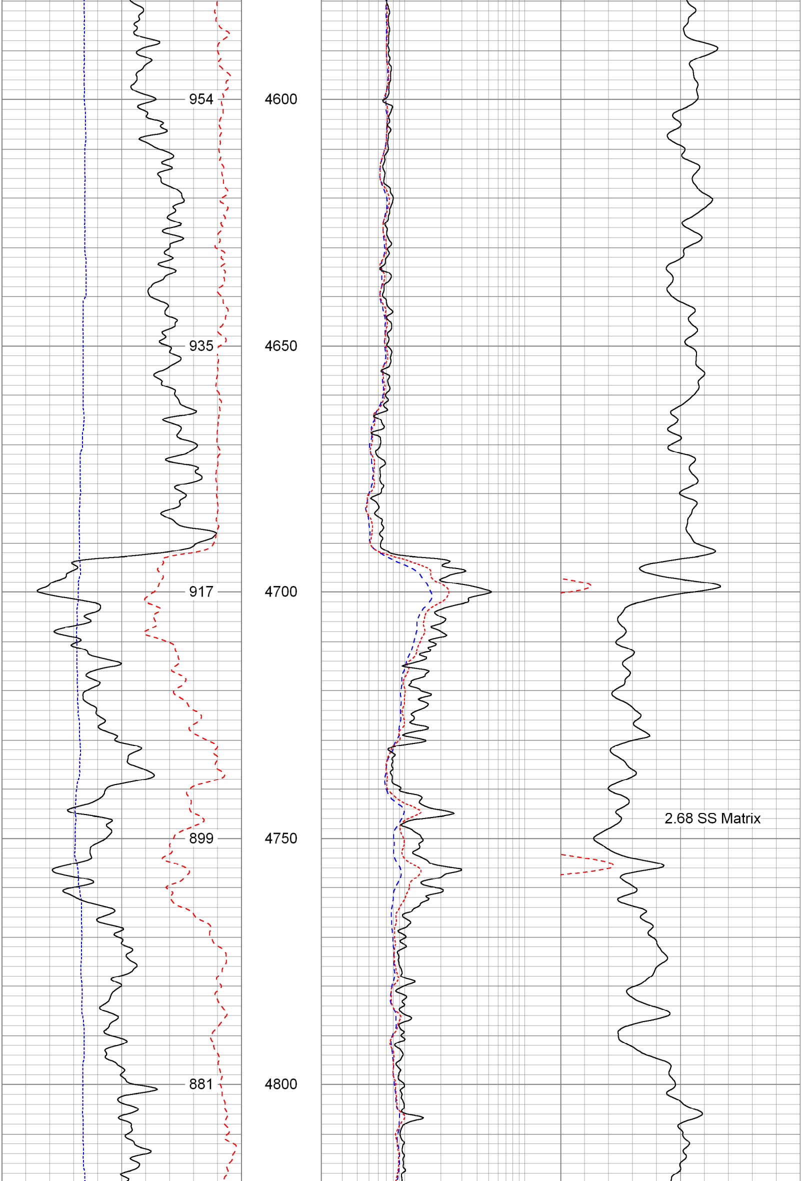
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

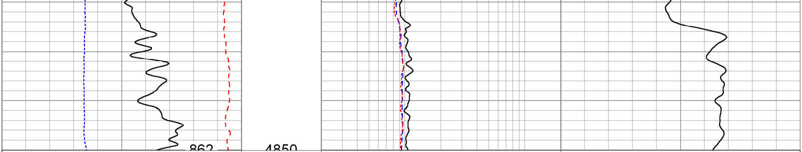
Comments

Annular volume calculated for 4.5" casing
Patterson-UTI Drilling Rig 6
Thank you for using Phoenix Surveys!

Database File: 4878.db
Dataset Pathname: main
Presentation Format: pdc1
Dataset Creation: Wed Jan 19 08:14:08 2005
Charted by: Depth in Feet scaled 1:240







6 Density Caliper (in) 16
30 Gamma Ray (GAPI) 130
60 SP (mV) 160
ABHV
(ft3)

2 Deep Resistivity (Ohm-m) 200
2 Medium Resistivity (Ohm-m)200
2 Shallow Resistivity (Ohm-m)200

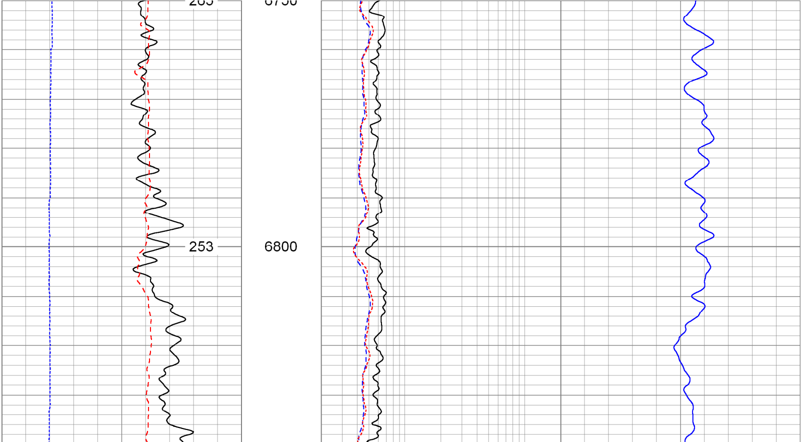
20 Density Porosity (pu) 0
20 Neutron Porosity (pu) 0

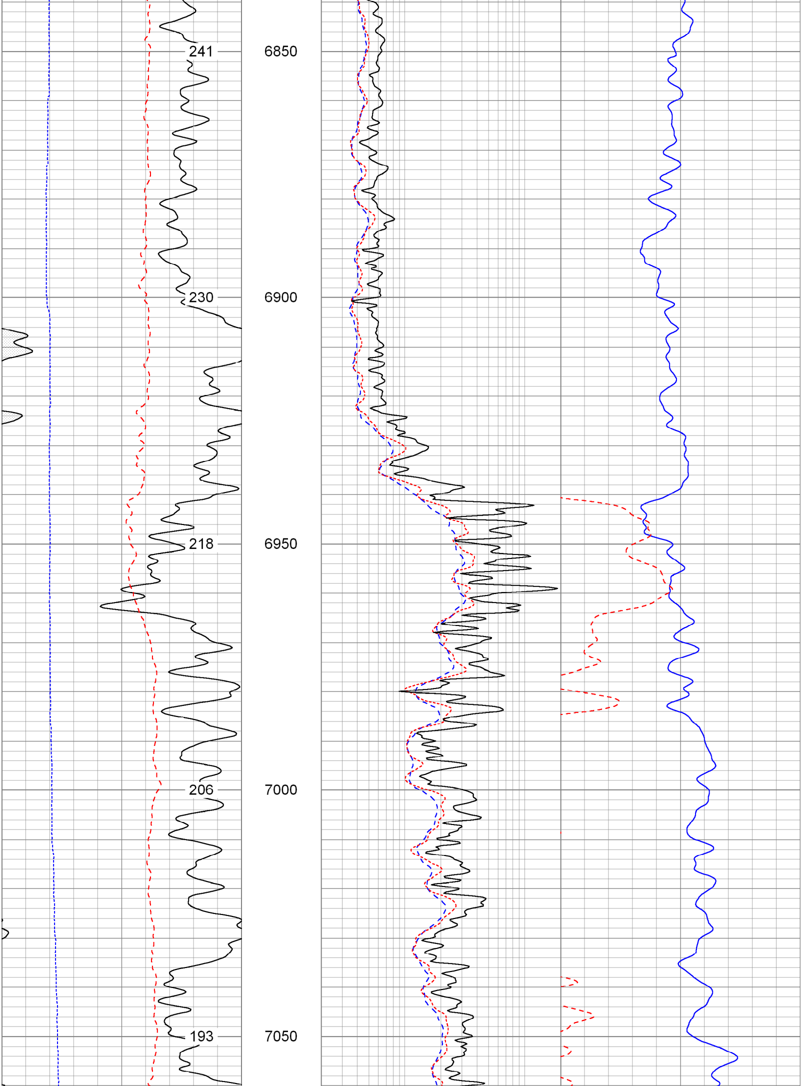
Database File:	4878.db
Dataset Pathname:	main
Presentation Format:	pdc
Dataset Creation:	Wed Jan 19 08:14:08 2005
Charted by:	Depth in Feet scaled 1:240

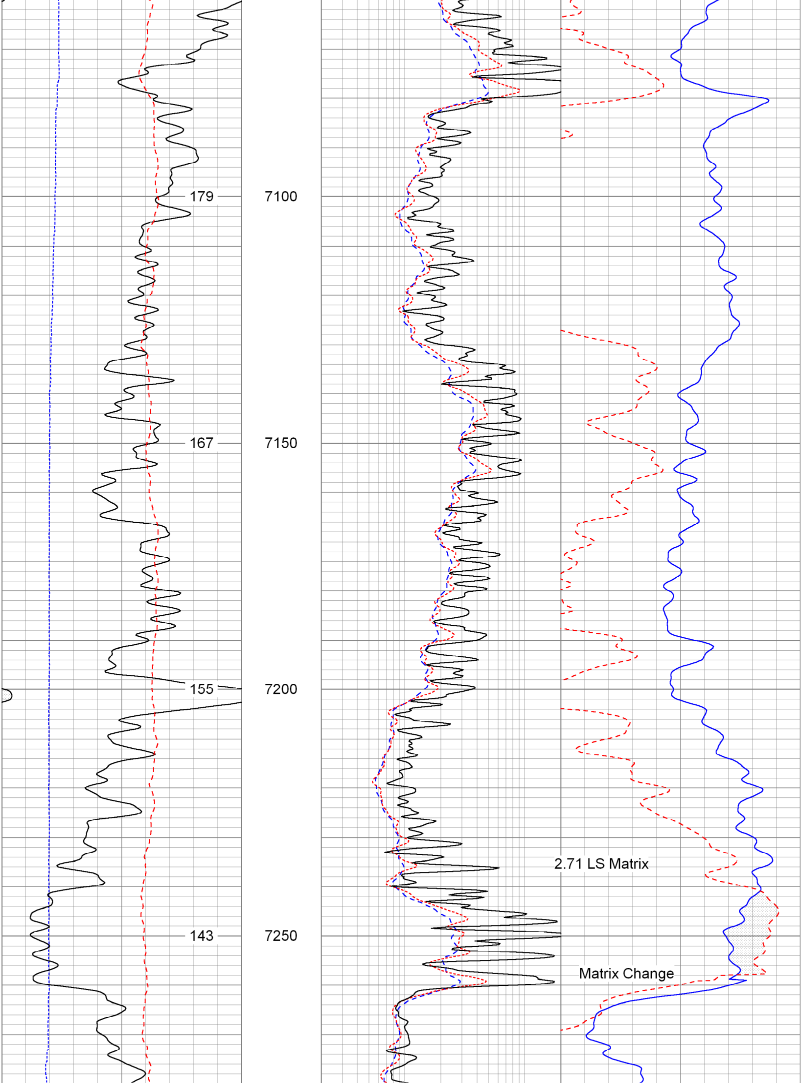
6 Caliper (in) 16
0 Gamma Ray (GAPI) 200
0 SP (mV) 200
ABHV
(ft3)

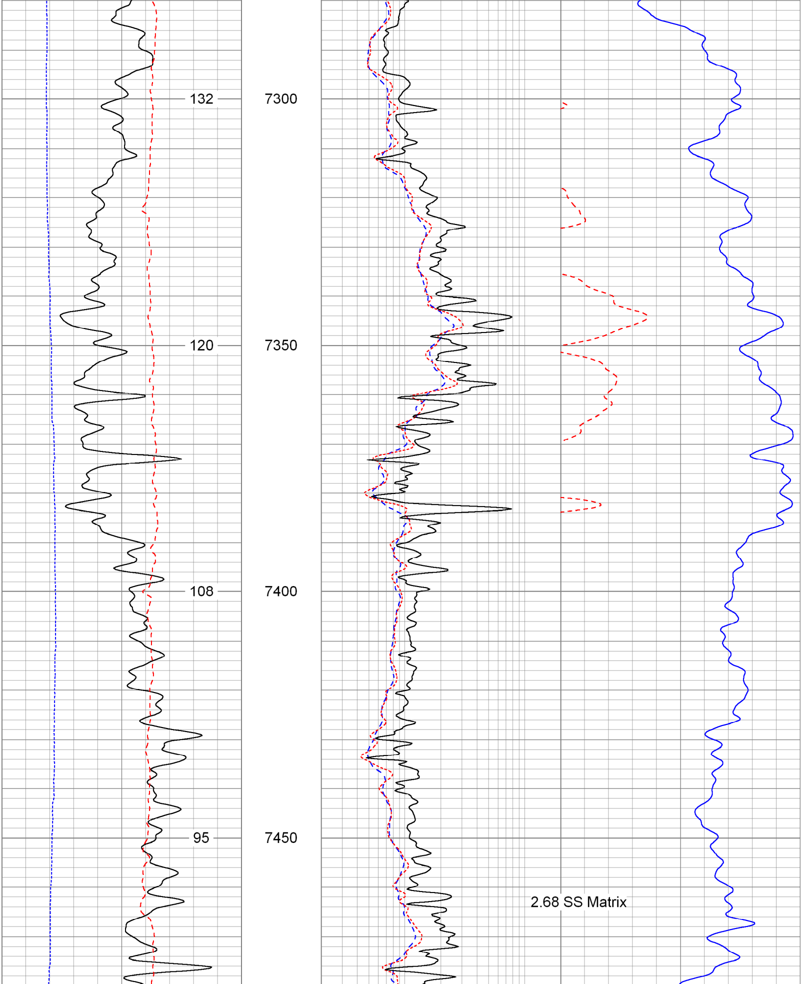
2 Deep Resistivity (Ohm-m) 200
2 Medium Resistivity (Ohm-m)200
2 Shallow Resistivity (Ohm-m)200

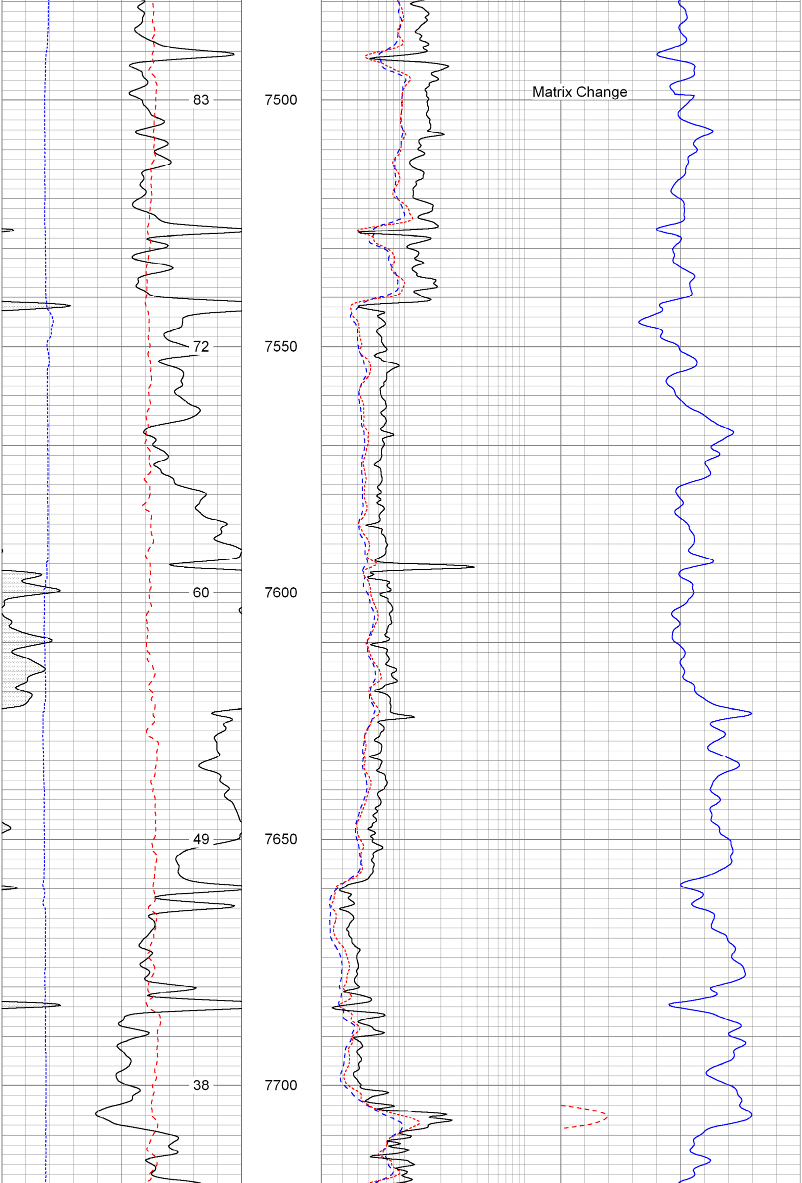
20 Density Porosity (pu) 0
20 Neutron Porosity (pu) 0

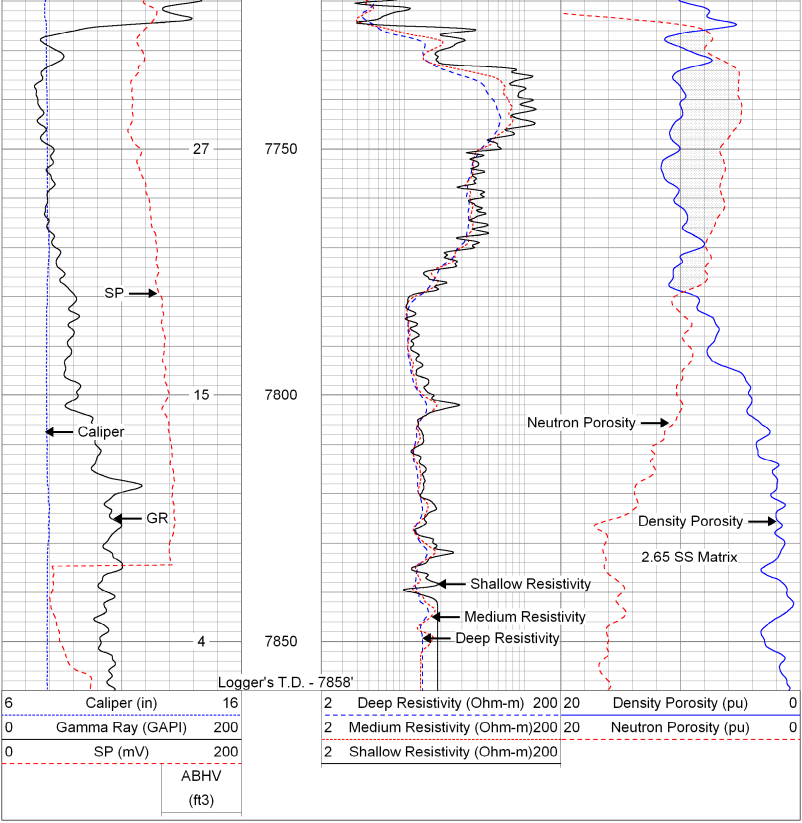












Calibration Report

Database File:	4878.db
Dataset Pathname:	pass1
Dataset Creation:	Wed Jan 19 06:12:20 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	75.411	495.929	4.000	250.000	mmho-m	0.570	-34.000
Medium	75.269	470.661	10.000	100.000	mmho-m	0.272	-15.000

Compensated Density Calibration Report

Serial-Model: 203-PSI
Source / Verifier: CsvB6 /
Master Calibration Performed: Sat Jan 01 03:20:52 2005
Before Survey Verification Performed:
After Survey Verification Performed:

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.750	g/cc	3705.00	4676.49	cps
Aluminum	2.690	g/cc	666.44	2894.70	cps

Spine Angle = 74.38

Density/Spine Ratio = 0.528

	Size		Reading
Small Ring	7.00	in	0.65
Large Ring	15.00	in	0.74

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: 55
Tool Model: PSI

CALIBRATION

Detector	Readings	Target	Normalization
Short Space	5200.00 cps	1000.00 cps	1.9000
Long Space	460.00 cps	1000.00 cps	2.4000

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: 40
Tool Model: PSI
Performed: Tue Dec 28 13:14:38 2004

Calibrator Value: 253 GAPI

Background Reading: 30 cps
Calibrator Reading: 380 cps

Sensitivity: 0.56 GAPI/cps