SUPERIOR
WELL SERVICES

GAMMA RAY CCL
CEMENT BOND VDL

Company NOBLE ENERGY INC.
Well GUTTERSEN D02-33D
Field WATTENBERG
County WELD
State COLORADO

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Location: API # : 0512335036
SHL: 1647' FSL & 1350' FWL NE/SW
BHL: 75' FWL & 1350' FSL NW/SW
SEC 2 TWP 3N RGE 64W

Other Services

Permanent Datum GL Elevation 4700
Log Measured From KB
Drilling Measured From KB

Elevation
K.B. 4714
D.F. 4700
G.L. 4700

Date	JUNE 13, 2012		
Run Number	ONE		
Depth Driller	7693		
Depth Logger	7632		
Bottom Logged Interval	7631		
Top Log Interval	1591		
Open Hole Size	7-7/8		
Type Fluid	WATER		
Density / Viscosity	N/A		
Max. Recorded Temp.	247 DEG. F		
Estimated Cement Top	1968		
Time Well Ready	PORTABLE MAST		
Time Logger on Bottom	2-3/4 PROBE 110803		
Equipment Number	3342		
Location	45		
Recorded By	GREG NOLAN		
Witnessed By	TROY SETTLE		

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	8-5/8	24# J-55	14	793
Prot. String				
Production String	4-1/2	11.6# M-80	14	7693
Liner				

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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

THANK YOU FOR CHOOSING SUPERIOR WELL SERVICES!!!
LOG NOT CORRELATED BECAUSE NO OPEN HOLE LOGS WERE RAN.
WCR 40 & WCR 57, S1.5, SE.3, S INTO
WEST WELL OF A 3 WELL PAD

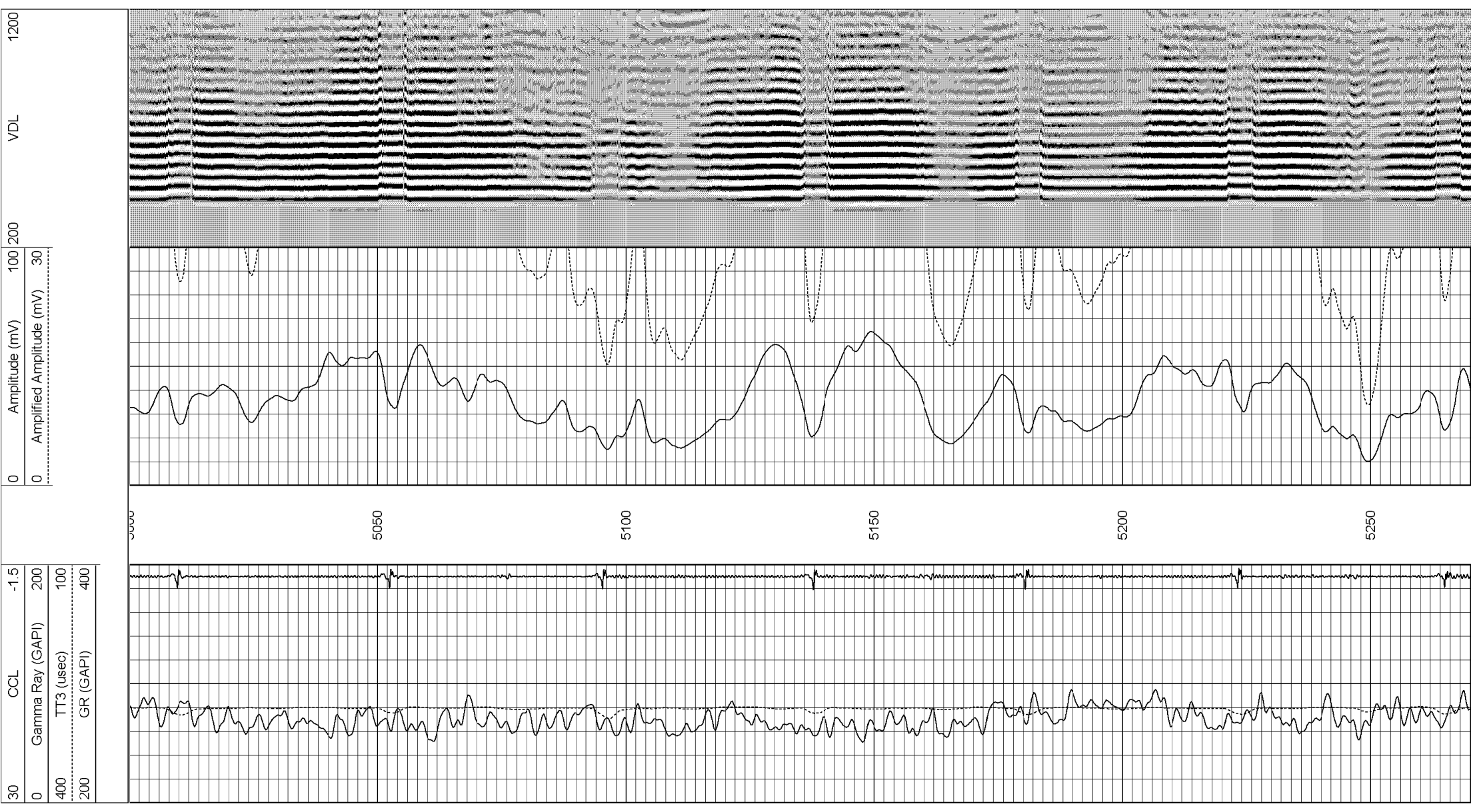
Database File: cbl noble guttersen d02-33d.db
Dataset Pathname: pass3
Presentation Format: bond
Dataset Creation: Thu Jun 14 10:42:19 2012 by Log Std Casedhole 10081
Charted by: Depth in Feet scaled 1:240

30	CCL	-1.5
30	Gamma Ray (GAPI)	130
400	TT3 (usec)	100
200	GR (GAPI)	400
0	Amplitude (mV)	100
0	Amplified Amplitude (mV)	30
200	VDL	1200

30	CCL	-1.5
30	Gamma Ray (GAPI)	130
400	TT3 (usec)	100
200	GR (GAPI)	400
0	Amplitude (mV)	100
0	Amplified Amplitude (mV)	30
200	VDL	1200

Database File: cbl noble guttersen d02-33d.db
Dataset Pathname: pass2
Presentation Format: bond
Dataset Creation: Thu Jun 14 10:22:10 2012 by Log Std Casedhole 10081
Charted by: Depth in Feet scaled 1:240

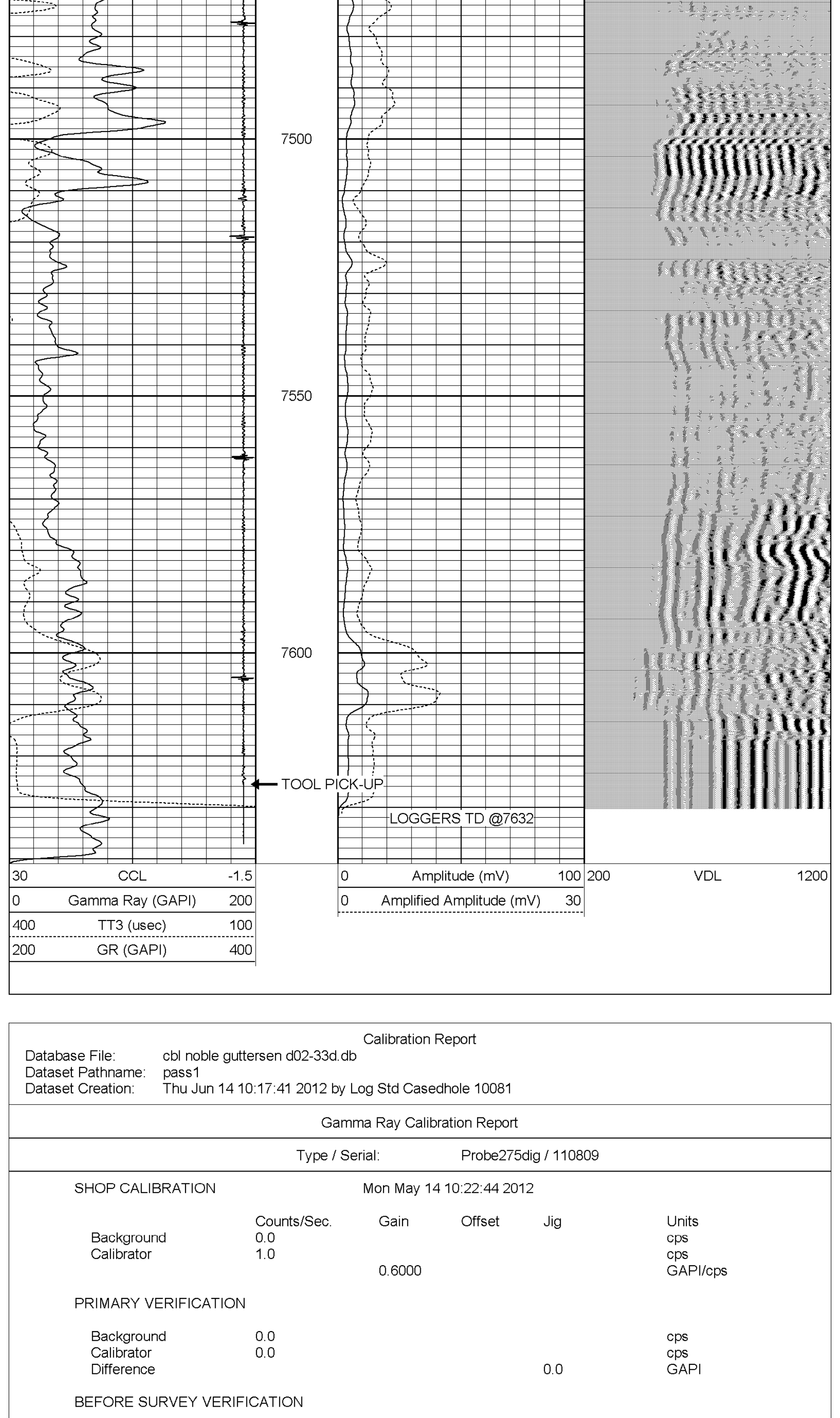
30	CCL	-1.5
0	Gamma Ray (GAPI)	200
400	TT3 (usec)	100
200	GR (GAPI)	400
0	Amplitude (mV)	100
0	Amplified Amplitude (mV)	30
200	VDL	1200



30	CCL	-1.5	0	Amplitude (mV)	100	200	VDL	1200
0	Gamma Ray (GAPI)	200	0	Amplified Amplitude (mV)	30			
400	TT3 (usec)	100						
200	GR (GAPI)	400						

Database File: cbl noble guttersen d02-33d.db
Dataset Pathname: pass1
Presentation Format: bond
Dataset Creation: Thu Jun 14 10:17:41 2012 by Log Std Casedhole 10081
Charted by: Depth in Feet scaled 1:240

30	CCL	-1.5	0	Amplitude (mV)	100	200	VDL	1200
0	Gamma Ray (GAPI)	200	0	Amplified Amplitude (mV)	30			
400	TT3 (usec)	100						
200	GR (GAPI)	400						



30	CCL	-1.5	0	Amplitude (mV)	100	200	VDL	1200
0	Gamma Ray (GAPI)	200	0	Amplified Amplitude (mV)	30			
400	TT3 (usec)	100						
200	GR (GAPI)	400						

Calibration Report

Database File: cbl noble guttersen d02-33d.db
Dataset Pathname: pass1
Dataset Creation: Thu Jun 14 10:17:41 2012 by Log Std Casedhole 10081

Gamma Ray Calibration Report

Type / Serial: Probe275dig / 110809

SHOP CALIBRATION	Mon May 14 10:22:44 2012				
	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	1.0				cps
		0.6000			GAPI/cps
PRIMARY VERIFICATION					
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI
BEFORE SURVEY VERIFICATION					
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI
AFTER SURVEY VERIFICATION					
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

Cement Bond Log Calibration Report

Serial Number:	110803		
Tool Model:	Probe275Digital		
Performed:	Thu Jun 14 10:01:30 2012		
Depth:	940.2	ft	
Casing Diameter:	4.5	in	
	3' Spacing	5' Spacing	
Signal Zero:	0.8	0	mV
Calibrated Amplitude:	81.1961	81.1961	mV
Reading at Signal Zero:	0.00932617	0.0092041	V
Reading in Free Pipe:	2.49795	2.41472	V
Gain:	32.3055	33.7541	
Offset:	0.498714	-0.310676	