NABORS
COMPLETION & PRODUCTION SERVICES CO.

Company	HIGH SIERRA WATER SERVICES LLC.
Well	SWD C4A
Field	WATTENBERG
County	WELD
State	COLORADO

CEMENT BOND LOG GAMMA RAY C C L V D L

Company	HIGH SIERRA WATER SERVICES LLC.		
Well	SWD C4A		
Field	WATTENBERG		
County	WELD	State	COLORADO

Location: API #: 05123358400000
SHL: 1040' FSL & 1294' FEL SW SE (SEC-26)
BHL: (est) 1250' FNL & 1405' FEL
SEC 35 TWP 6N RGE 65W

Other Services

Permanent Datum	GL	Elevation	4682	Elevation
Log Measured From	KB 23'			K.B. 4704
Drilling Measured From	KB			D.F. 4703 G.L. 4682

Date	December 26, 2012	
Run Number	One	
Depth Driller	9063	
Depth Logger	10668	
Bottom Logged Interval	10667	
Top Log Interval	Surface	
Casing Size	7.00"	4.50" sl
Type Fluid	Water	
Max. Recorded Temp.	305 deg F	
Estimated Cement Top	Surface est.	
Time Well Ready	Crane	
Time Logger On Bottom	AM	
Unit Number	4367	
Tool Size / ID Number	2.75 Probe 110802	2.75 Probe 110785
Location	45	Platteville, CO
Recorded By	K. Monaghan	
Witnessed By	E. Martin	

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	9.625"	36 lb/ft K-55	Surface	506
Prot. String				
Production String	7.00"	26 lb/ft P-110	Surface	9056
Liner	4.50"	11.6 lb/ft N-80	8910	10,716

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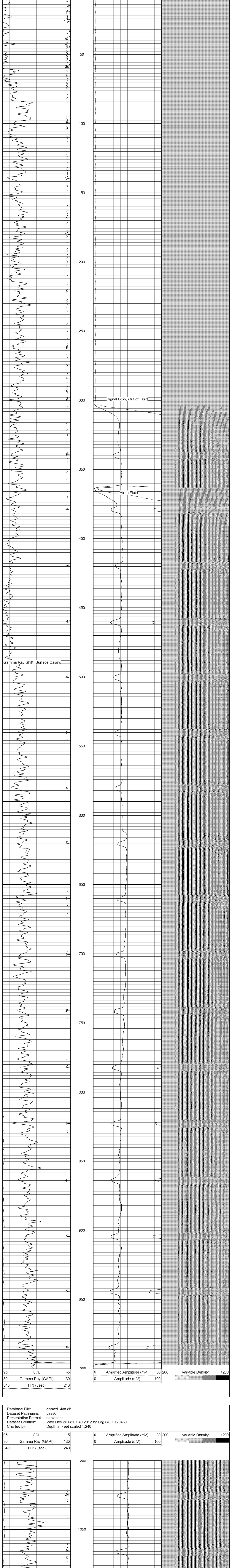
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

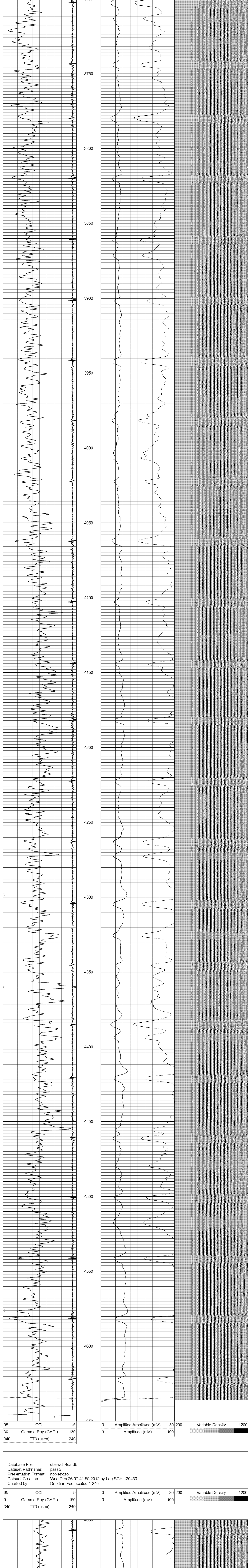
Comments

Thank You For Choosing Nabors Completion and Production Services CO!!
API# 05-123-35841-0000
Wireline Zero @ 23' KB
Correlated to Pioneer Wirelines Open Hole Log
Directions: 47 & 64, W 4/10, N on E side of Disposal Facility Into

Database File: cblswd 4ca.db
Dataset Pathname: pass7
Presentation Format: noblehozo
Dataset Creation: Wed Dec 26 11:37:39 2012 by Log SCH 120430
Charted by: Depth in Feet scaled 1:240

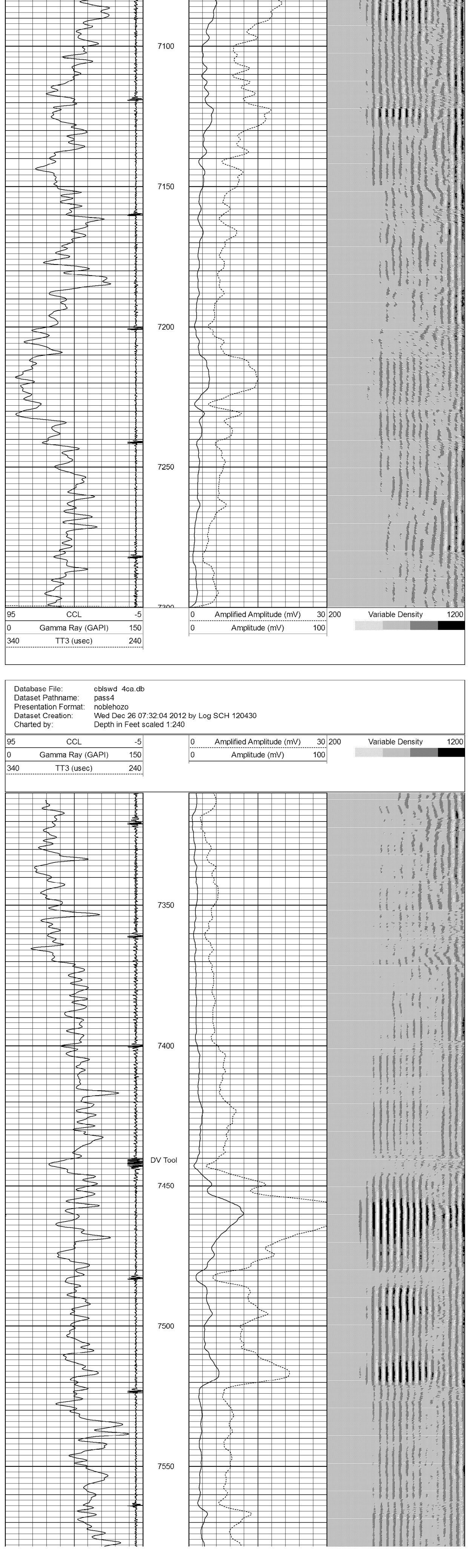


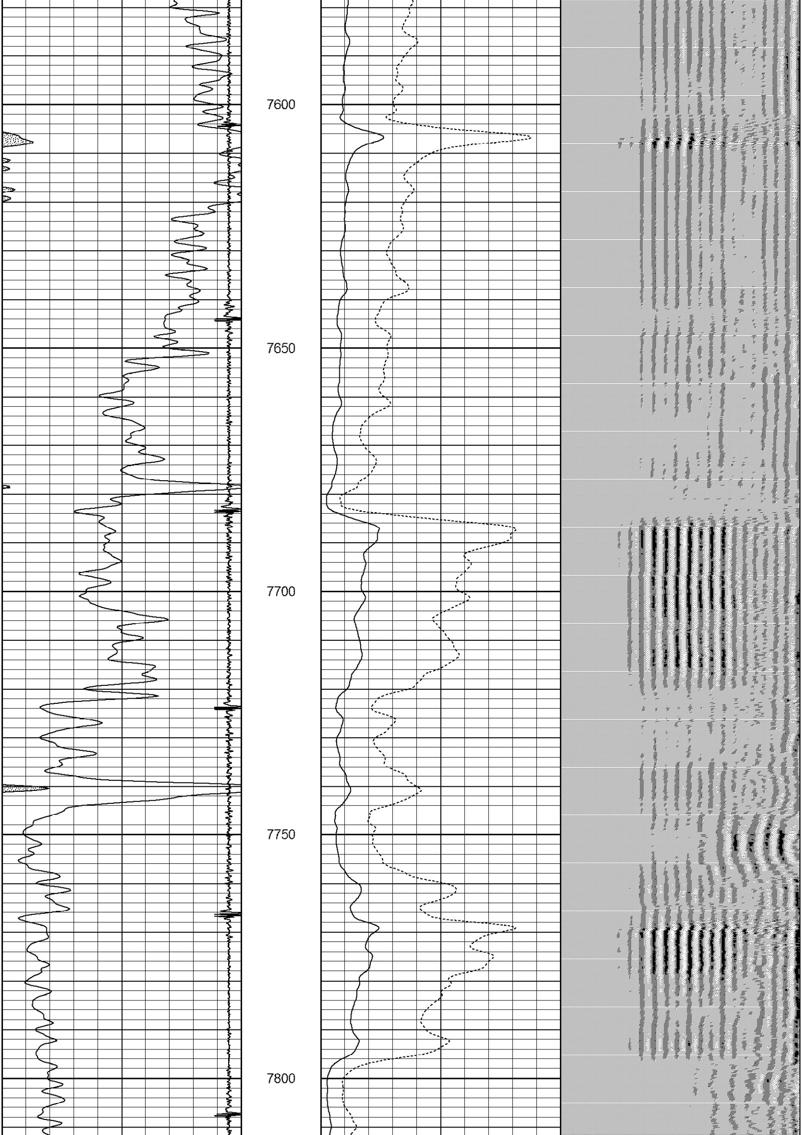
Database File: cblswd 4ca.db
Dataset Pathname: pass6
Presentation Format: noblehozo
Dataset Creation: Wed Dec 26 08:07:40 2012 by Log SCH 120430
Charted by: Depth in Feet scaled 1:240

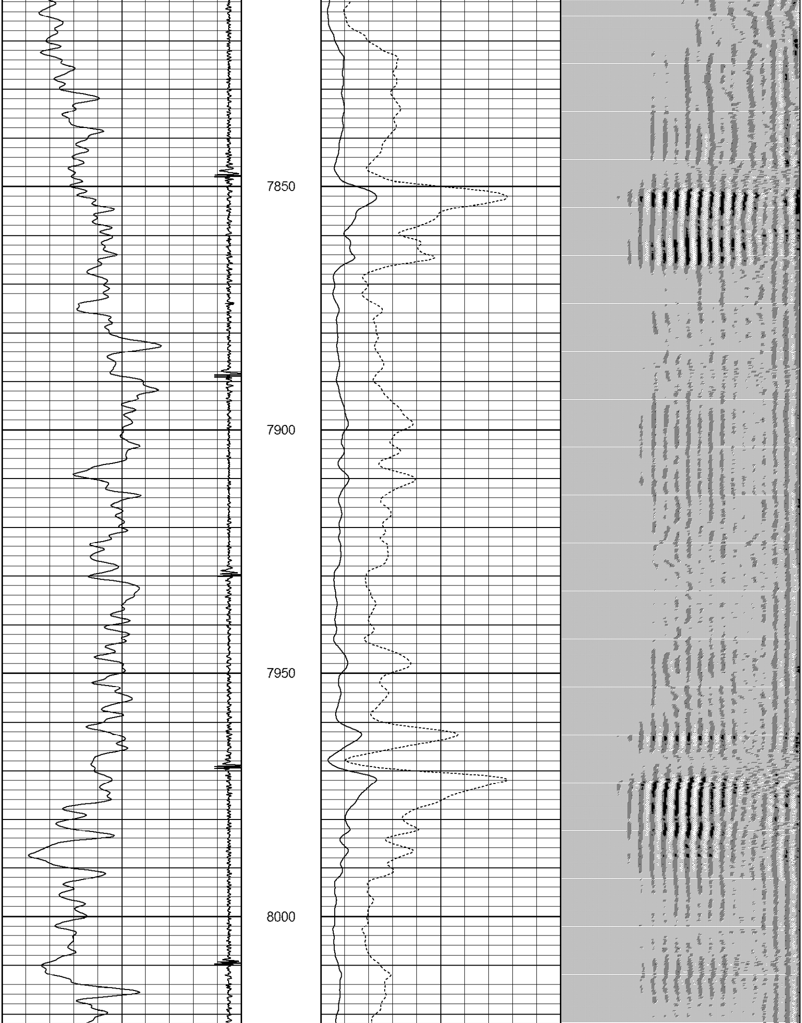


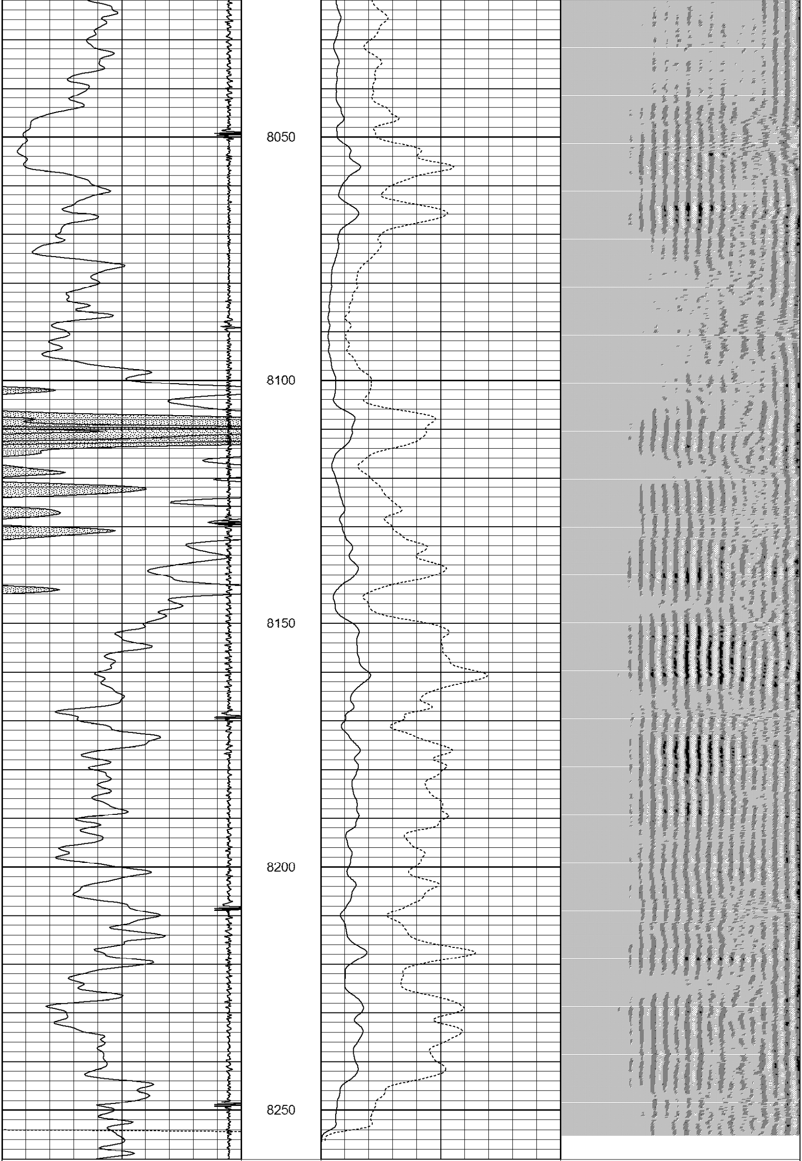
Database File: cblswd 4ca.db
Dataset Pathname: pass5
Presentation Format: noblehozo
Dataset Creation: Wed Dec 26 07:41:55 2012 by Log SCH 120430
Charted by: Depth in Feet scaled 1:240

Database File: cblswd 4ca.db
Dataset Pathname: pass4
Presentation Format: noblehozo
Dataset Creation: Wed Dec 26 07:32:04 2012 by Log SCH 120430
Charted by: Depth in Feet scaled 1:240









95	CCL	-5
0	Gamma Ray (GAPI)	150
340	TT3 (usec)	240

0	Amplified Amplitude (mV)	30
0	Amplitude (mV)	100

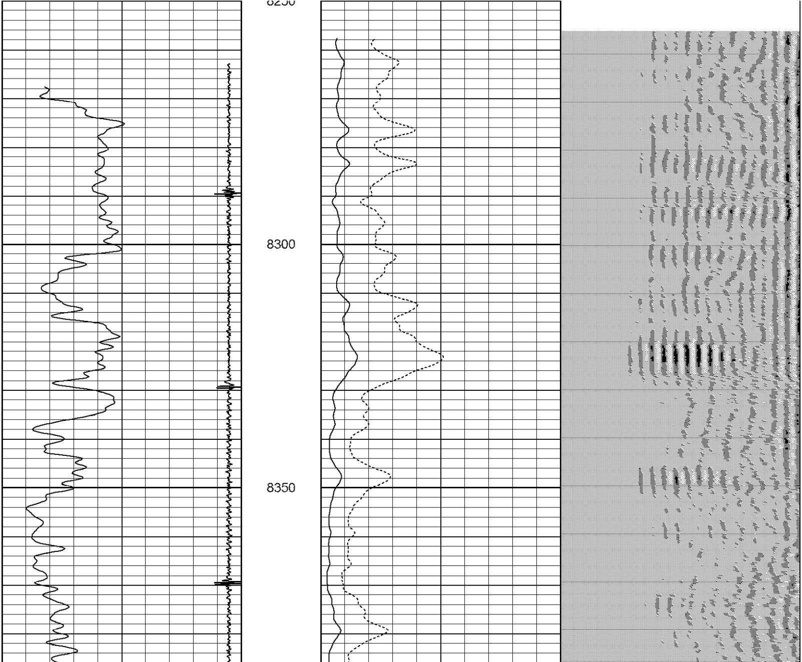
200	Variable Density	1200

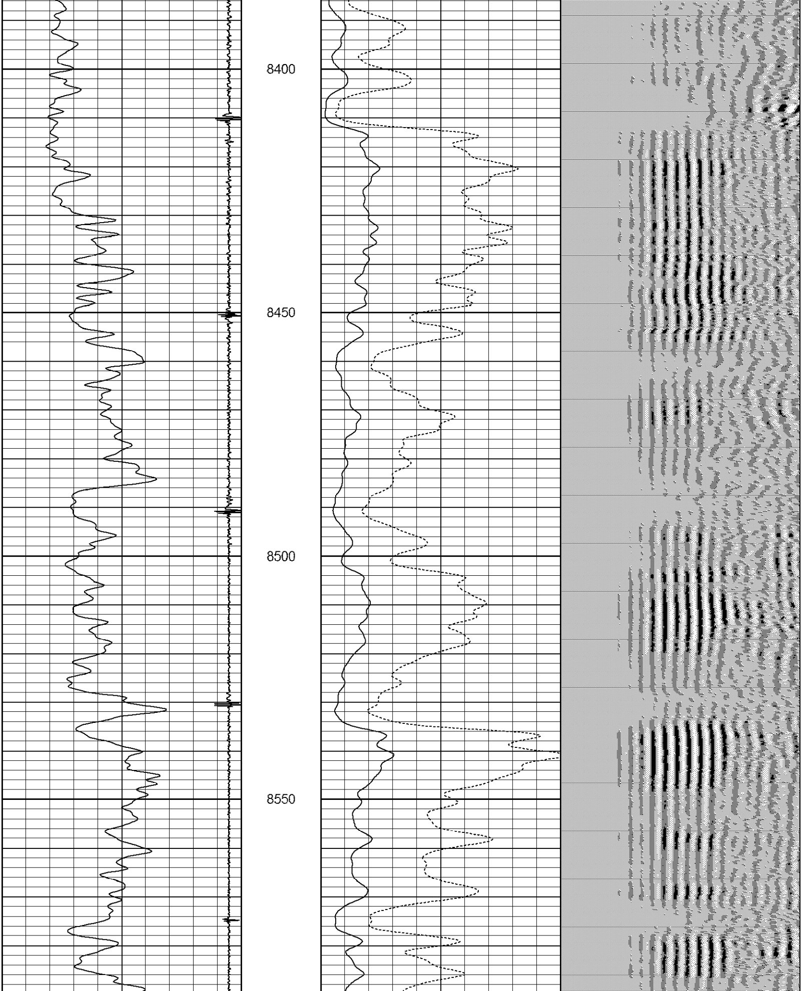
Database File: cblswd 4ca.db
Dataset Pathname: pass3
Presentation Format: noblehozo
Dataset Creation: Wed Dec 26 07:23:49 2012 by Log SCH 120430
Charted by: Depth in Feet scaled 1:240

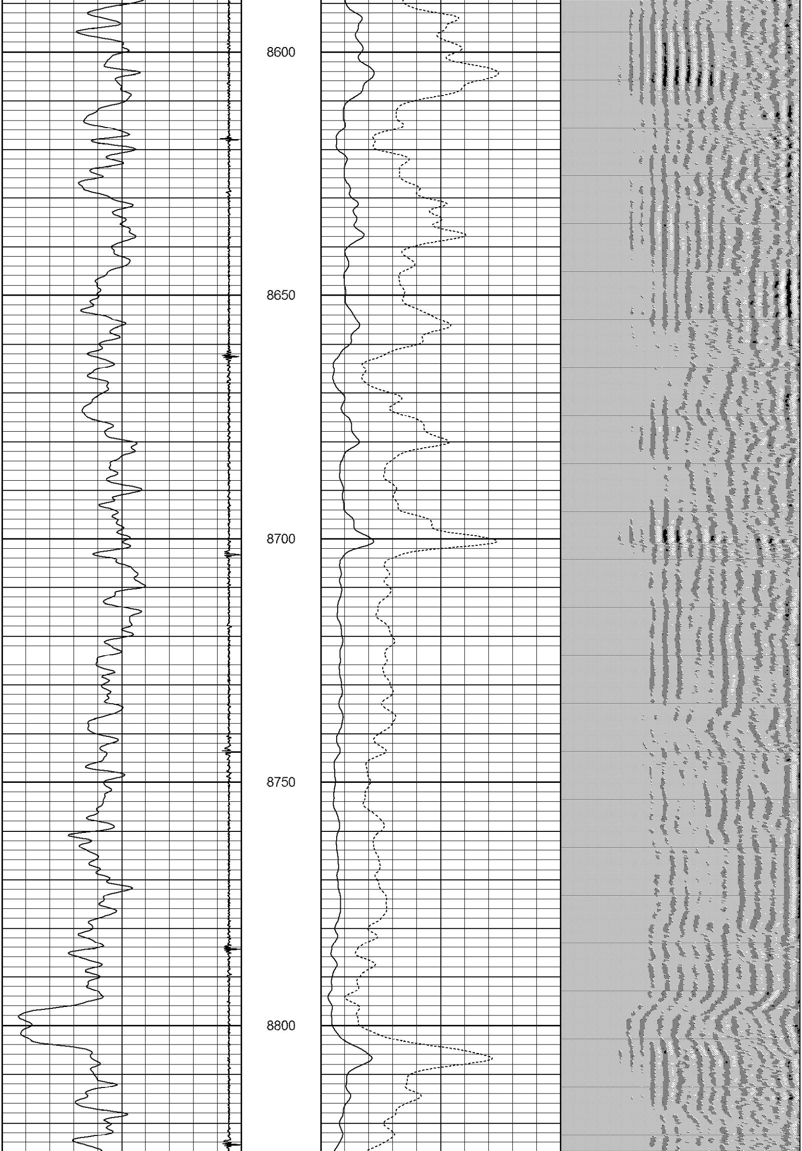
95	CCL	-5
0	Gamma Ray (GAPI)	150
340	TT3 (usec)	240

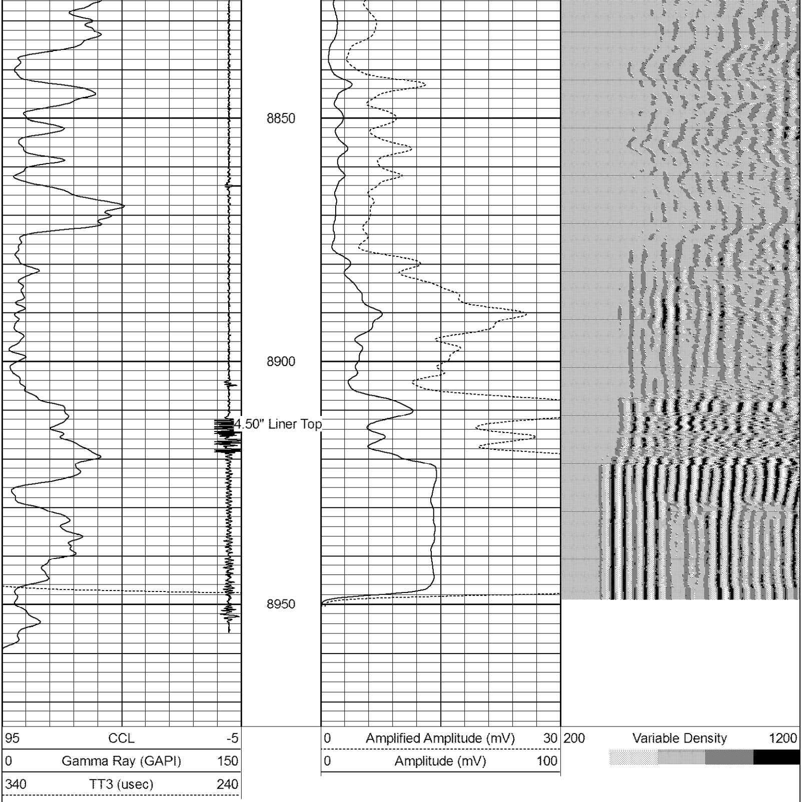
0	Amplified Amplitude (mV)	30
0	Amplitude (mV)	100

200	Variable Density	1200









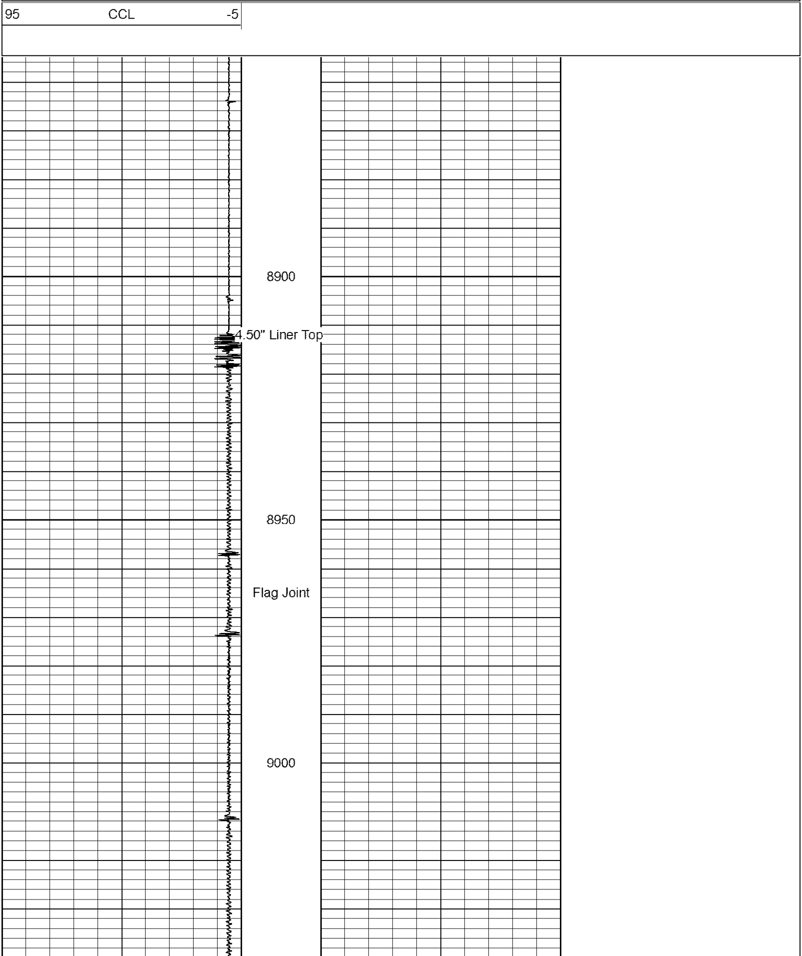
NABORS

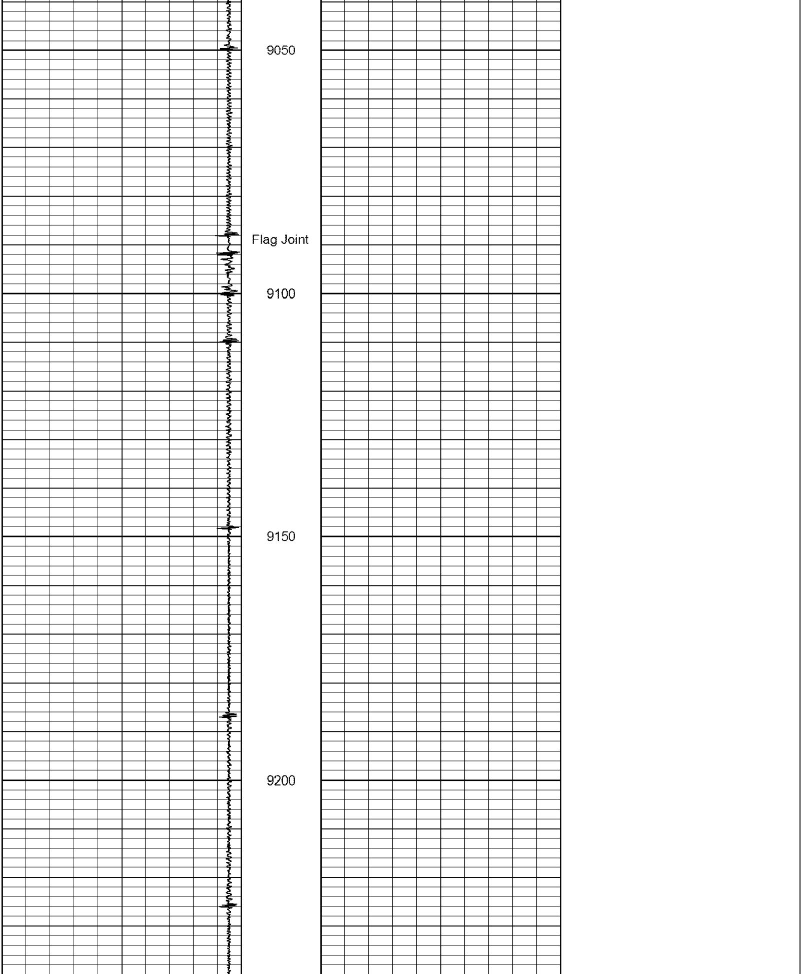
**COMPLETION
& PRODUCTION
SERVICES CO.**

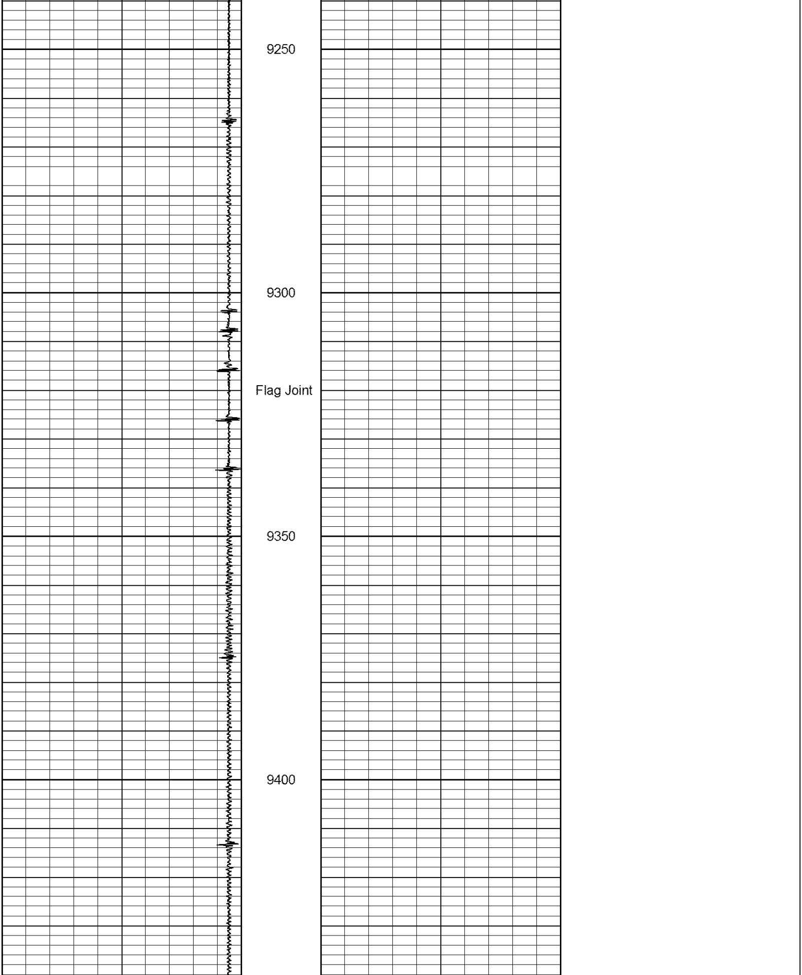
SWD C4A

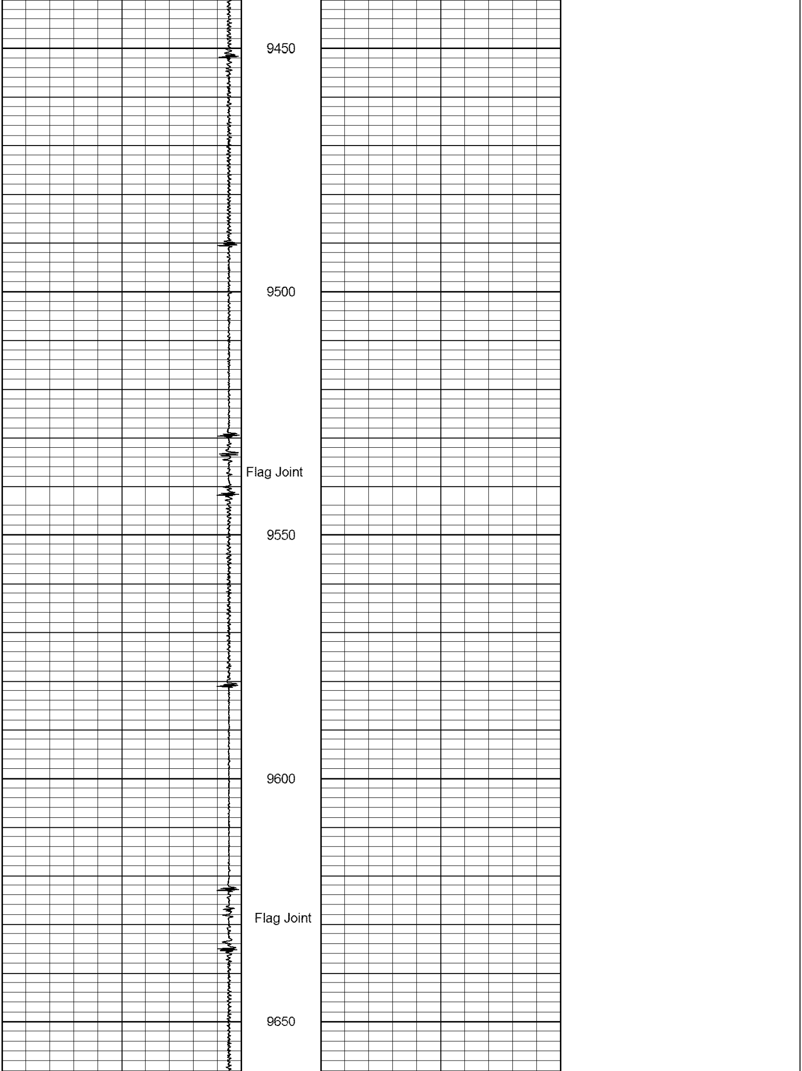
CCL: TD-TOL

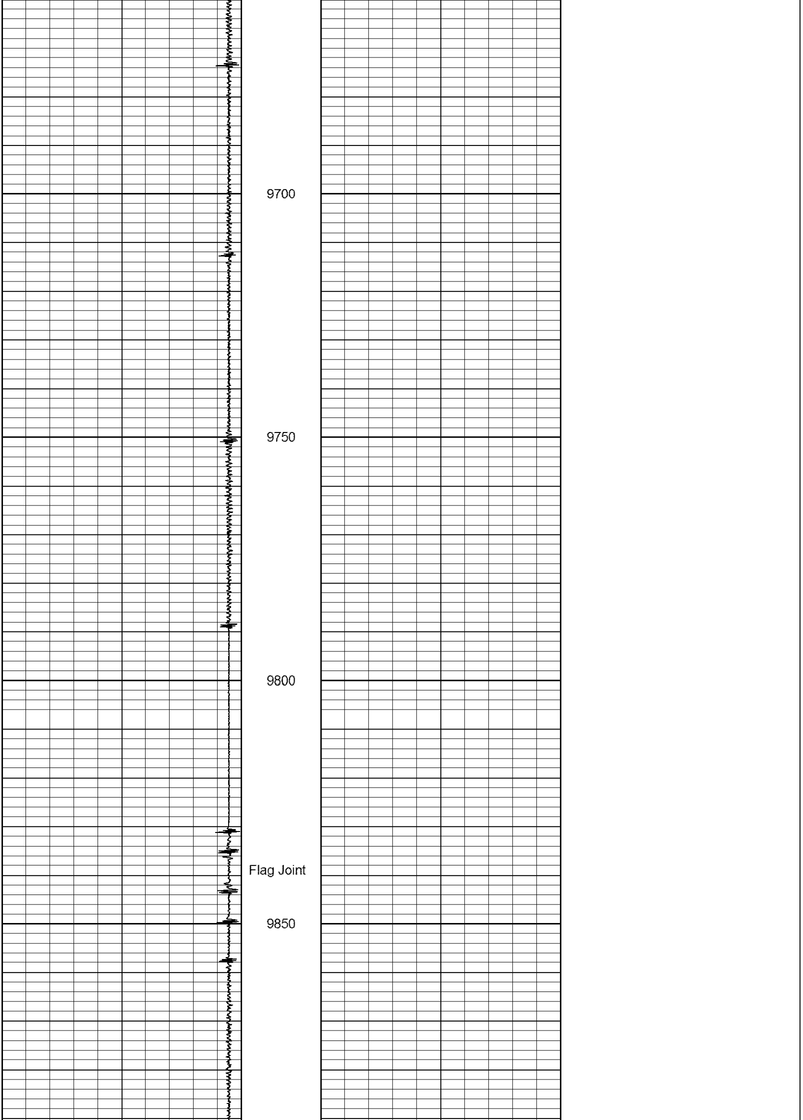
Database File:	cblswd 4ca.db
Dataset Pathname:	pass2
Presentation Format:	noblehozo
Dataset Creation:	Wed Dec 26 07:03:31 2012 by Log SCH 120430
Charted by:	Depth in Feet scaled 1:240

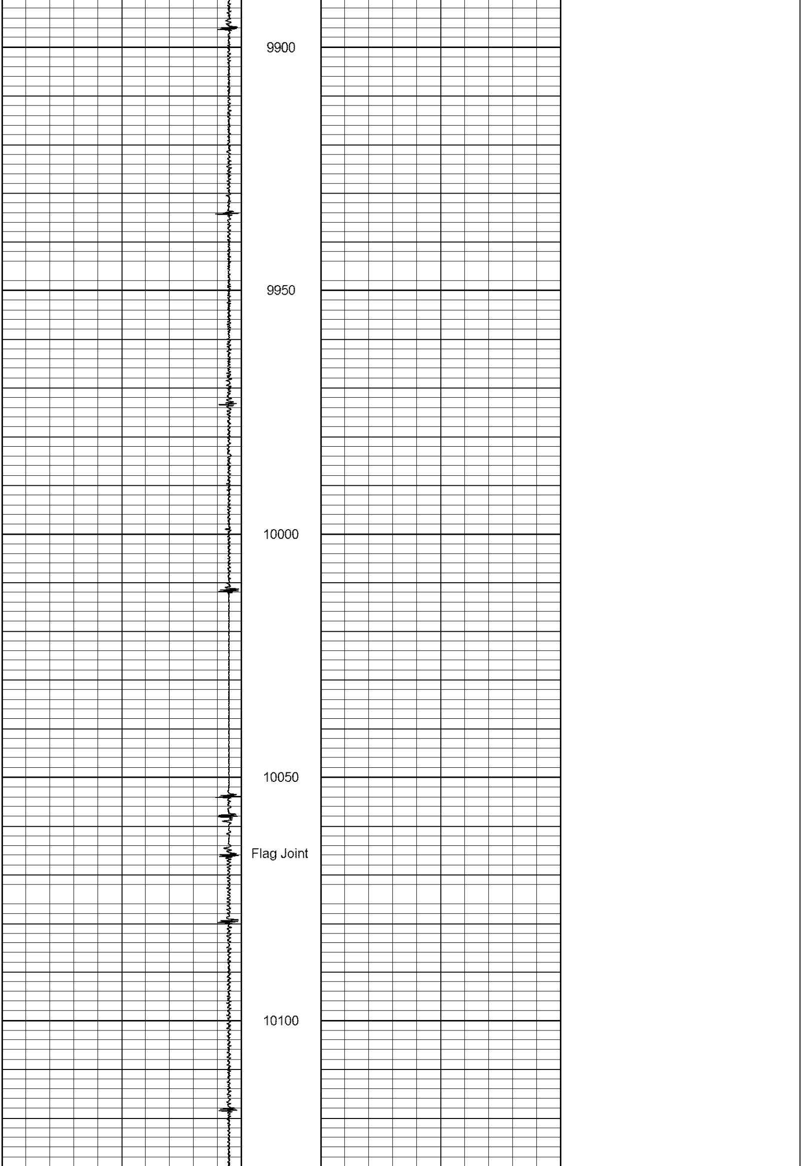


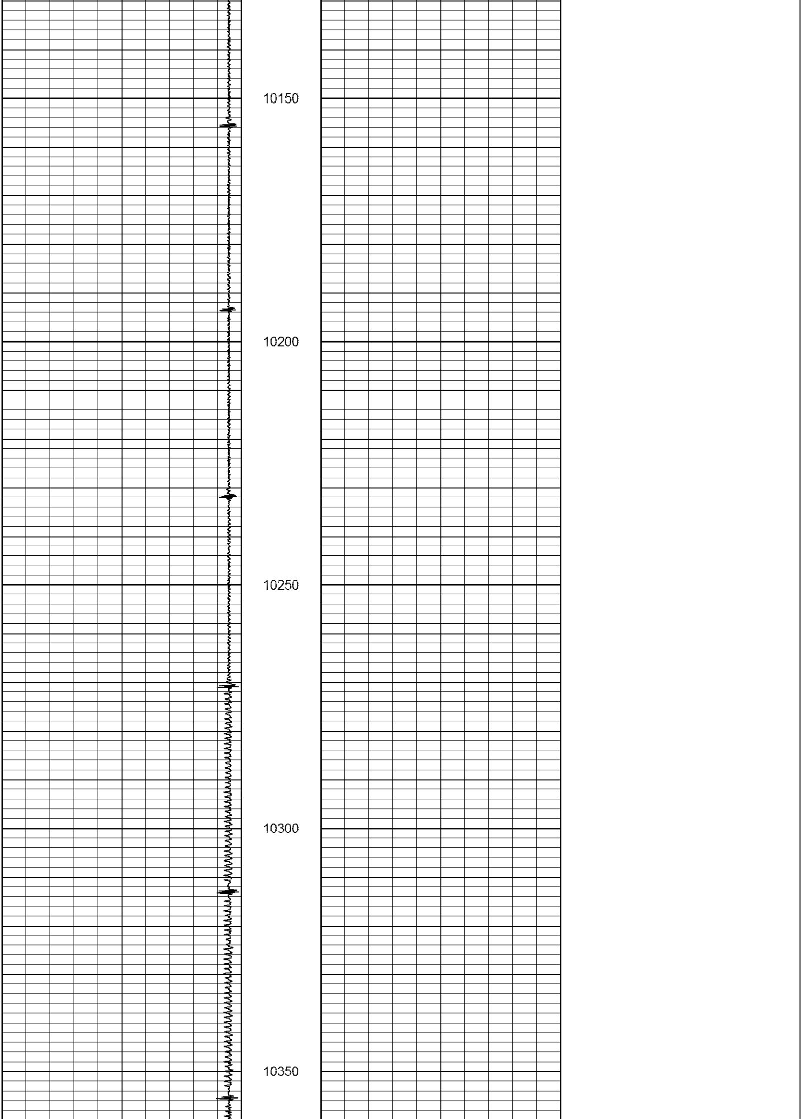


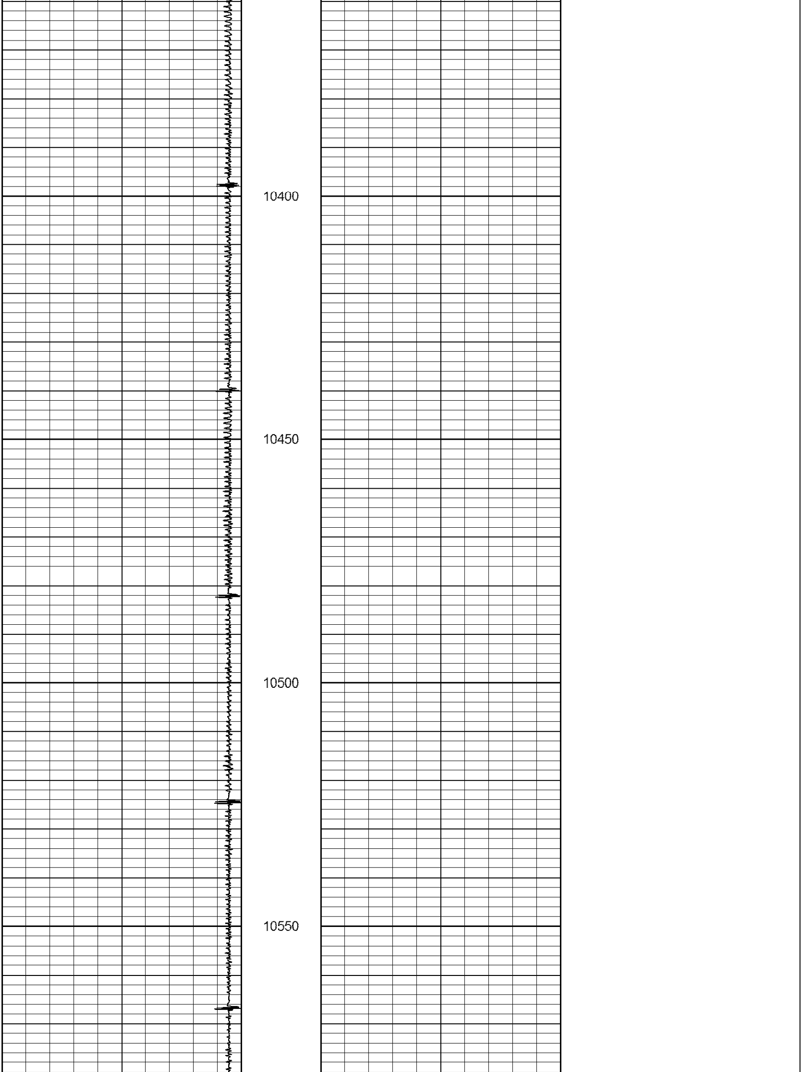


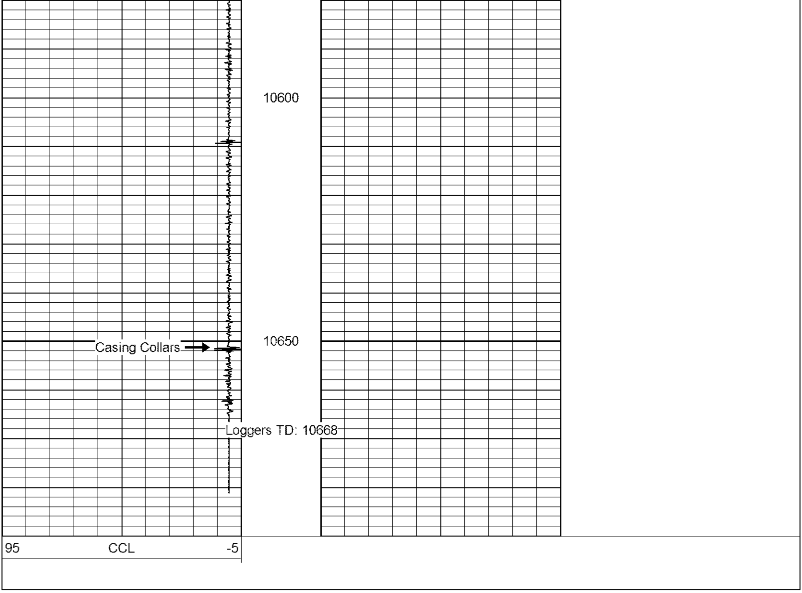












Calibration Report

Database File: cblswd 4ca.db
Dataset Pathname: pass2
Dataset Creation: Wed Dec 26 07:03:31 2012 by Log SCH 120430

Gamma Ray Calibration Report

Type / Serial: Probe275dig / 110785

	Counts/Sec.	Gain	Offset	Jig	Units
SHOP CALIBRATION	Wed Dec 26 06:58:48 2012				
Background	0.0				cps
Calibrator	1.0				cps
		0.6500			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: 110802
Tool Model: Probe275Digital
Performed: Wed Dec 26 06:33:28 2012

Depth: 1152.92 ft
Casing Diameter: 7 in

	3' Spacing	5' Spacing	
Signal Zero:	0.9	0	mV
Calibrated Amplitude:	62.1651	62.1651	mV
Reading at Signal Zero:	0.0134766	0.0133545	V
Reading in Free Pipe:	2.49753	2.40488	V
Gain:	24.6633	25.9939	
Offset:	0.567623	-0.347135	