NABORS
COMPLETION & PRODUCTION SERVICES CO.

GAMMA RAY CCL CEMENT BOND VDL

Company	NOBLE ENRGY INC.
Well	SLW RANCH STATE B12-67-1HN
Field	WATTENBERG
County	WELD
State	COLORADO

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Well	SLW RANCH STATE B12-67-1HN	
Field	WATTENBERG	
County	WELD	State COLORADO
Location:	API #: 0512336290 BHL: 1650' FNL & 535' FEL SW/NW	Other Services
	SEC 12 TWP 5N RGE 64W	

Permanent Datum	GL	Elevation 4603	Elevation K.B. 4627 D.F. G.L. 4603
Log Measured From	KB		
Drilling Measured From	KB		

Date	MAY 13, 2013
Run Number	ONE
Depth Driller	11248
Depth Logger	
Bottom Logged Interval	6405
Top Log Interval	SURFACE
Open Hole Size	8-3/4
Type Fluid	WATER
Density / Viscosity	N/A
Max. Recorded Temp.	210°F
Estimated Cement Top	1485
Time Well Ready	PORTABLE MAST
Time Logger on Bottom	2-3/4 PROBE 101020
Equipment Number	4838
Location	45
Recorded By	GREG NOLAN
Witnessed By	BILL MANSFIELD

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	9-5/8	36# J-55	24	668
Prot. String	7	26# P-110	24	7093
Production String	4-1/2	11.6# P-110	6822.4	11238
Liner				

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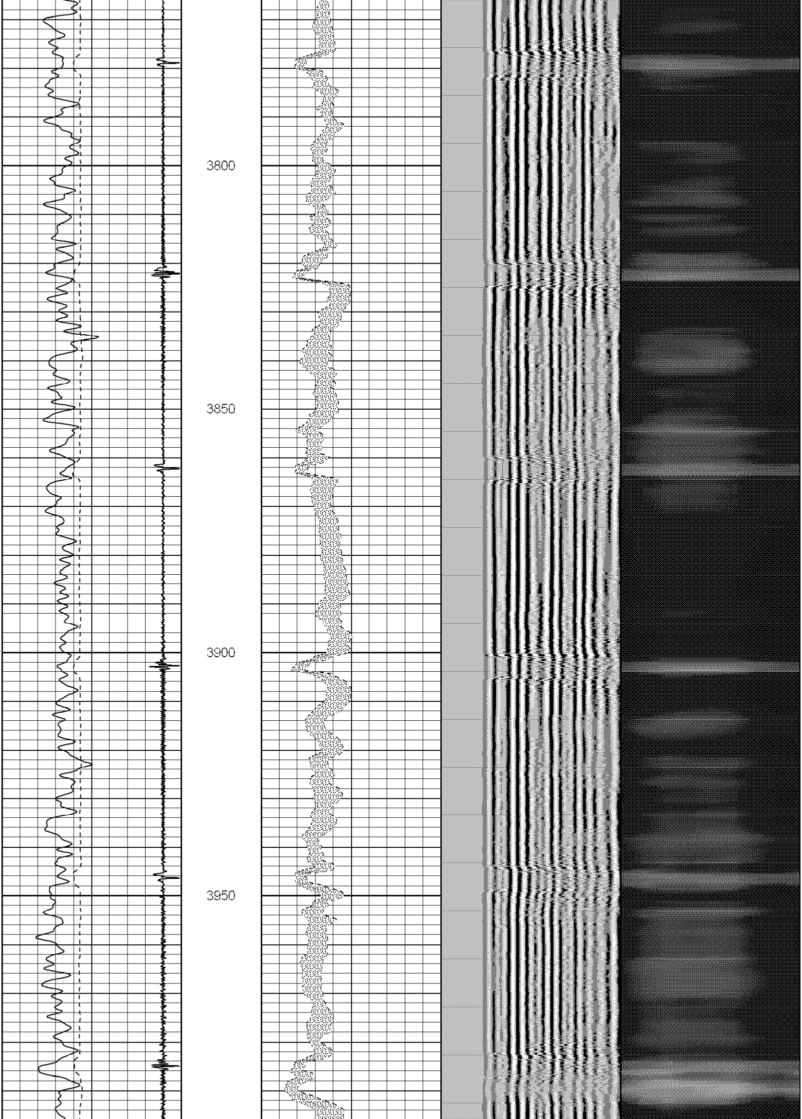
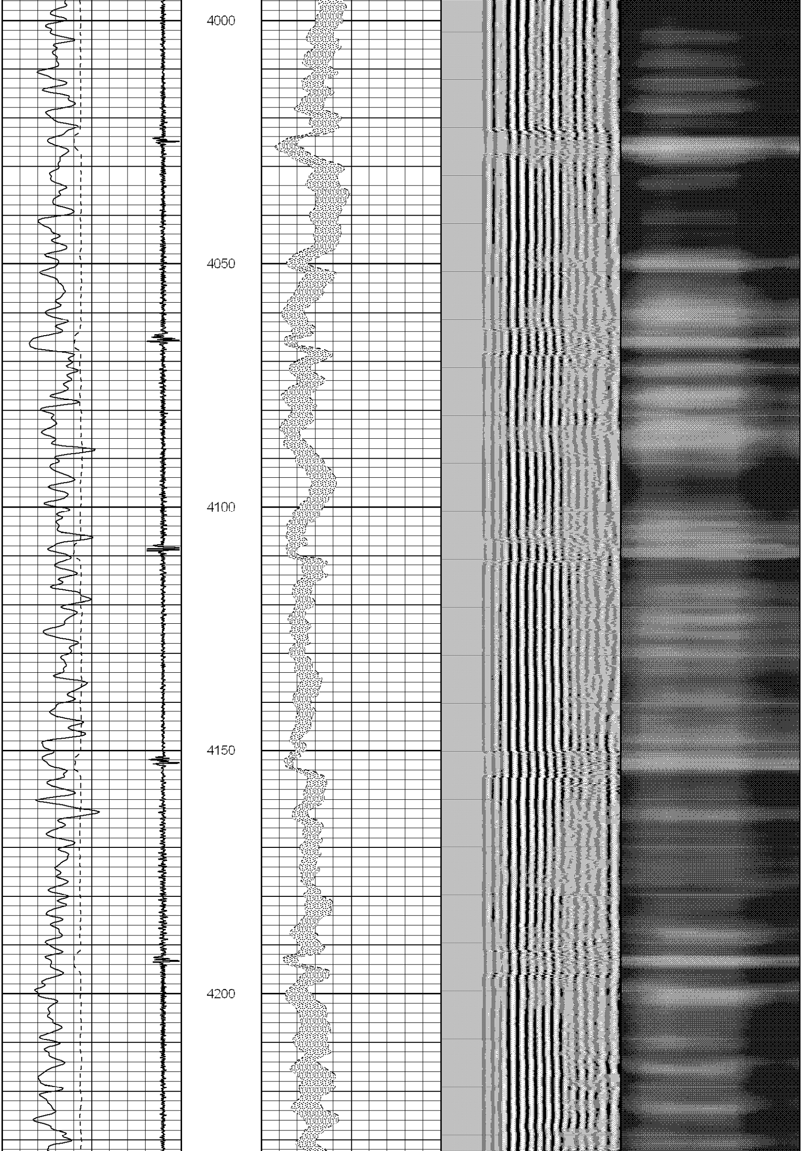
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

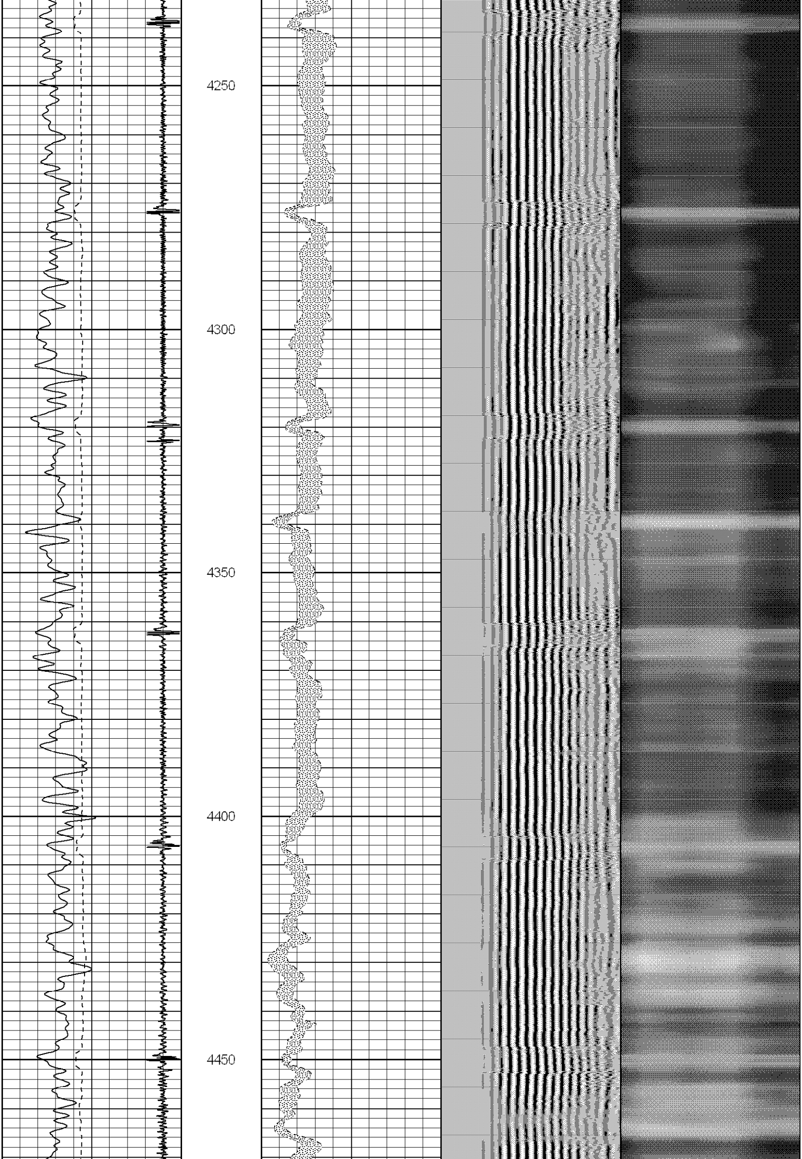
Comments

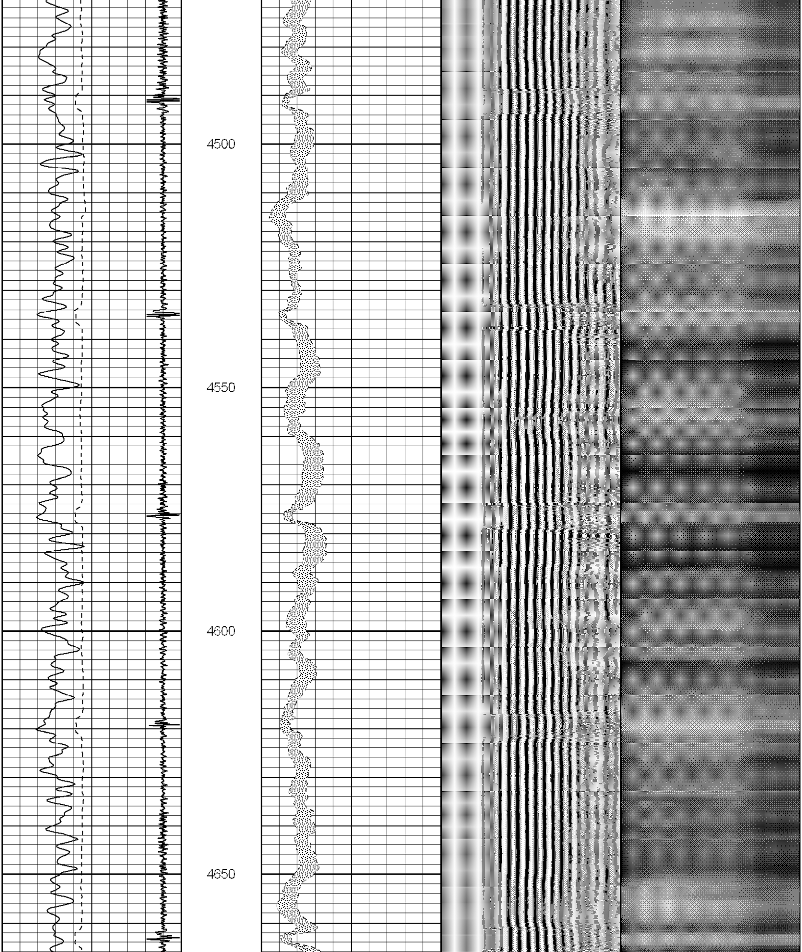
THANK YOU FOR CHOOSING NCPS!!!!
LOG NOT CORRELATED
WCR 58-1/2 & WCR 59, S.1, E INTO
NORTHERNMOST WELL OF A 4 WELL PAD

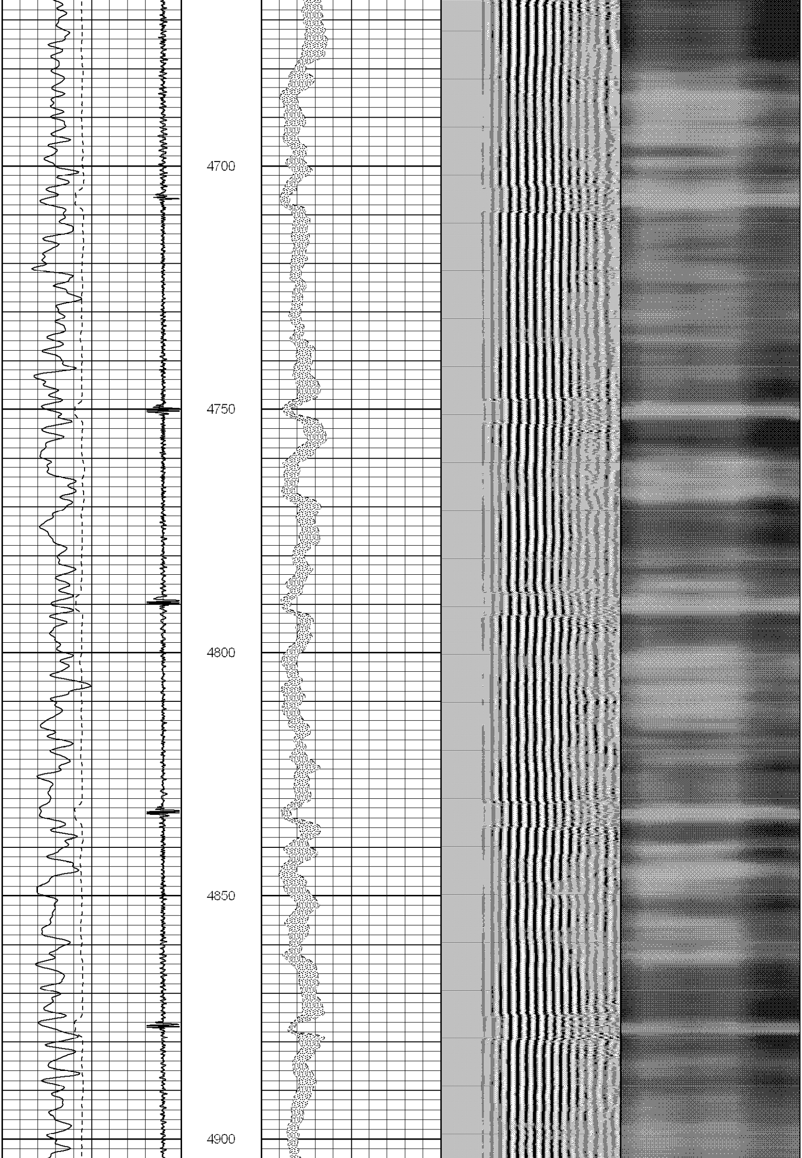
Database File: cbl noble slw ranch state b12-67-1hn.db
Dataset Pathname: pass3
Presentation Format: sector2
Dataset Creation: Mon May 13 07:36:13 2013 by Log SCH 120430
Charted by: Depth in Feet scaled 1:240

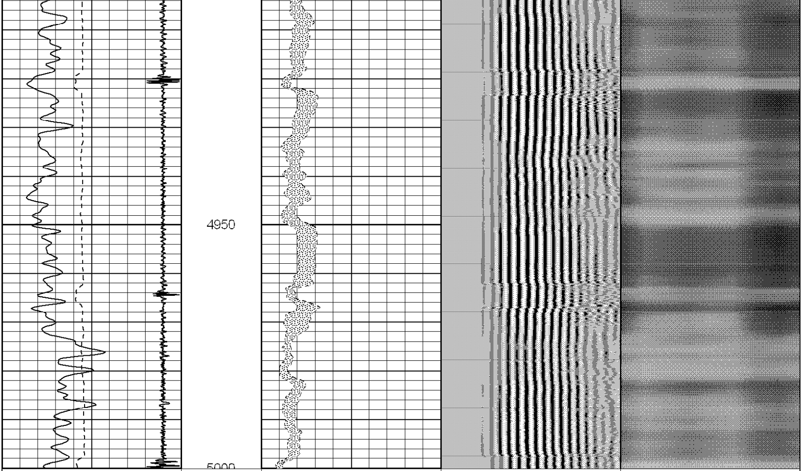








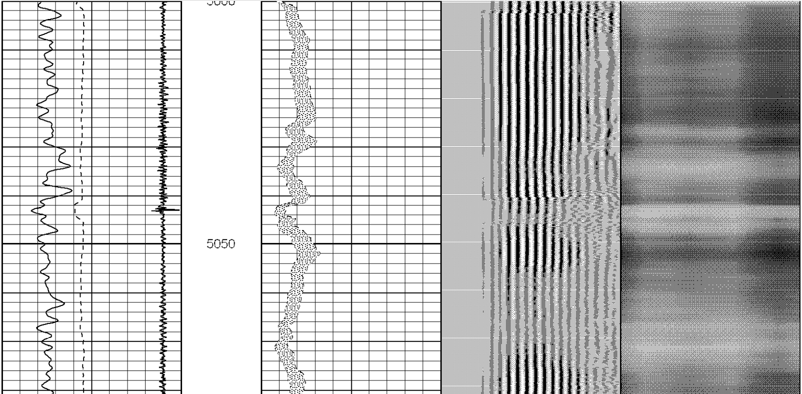


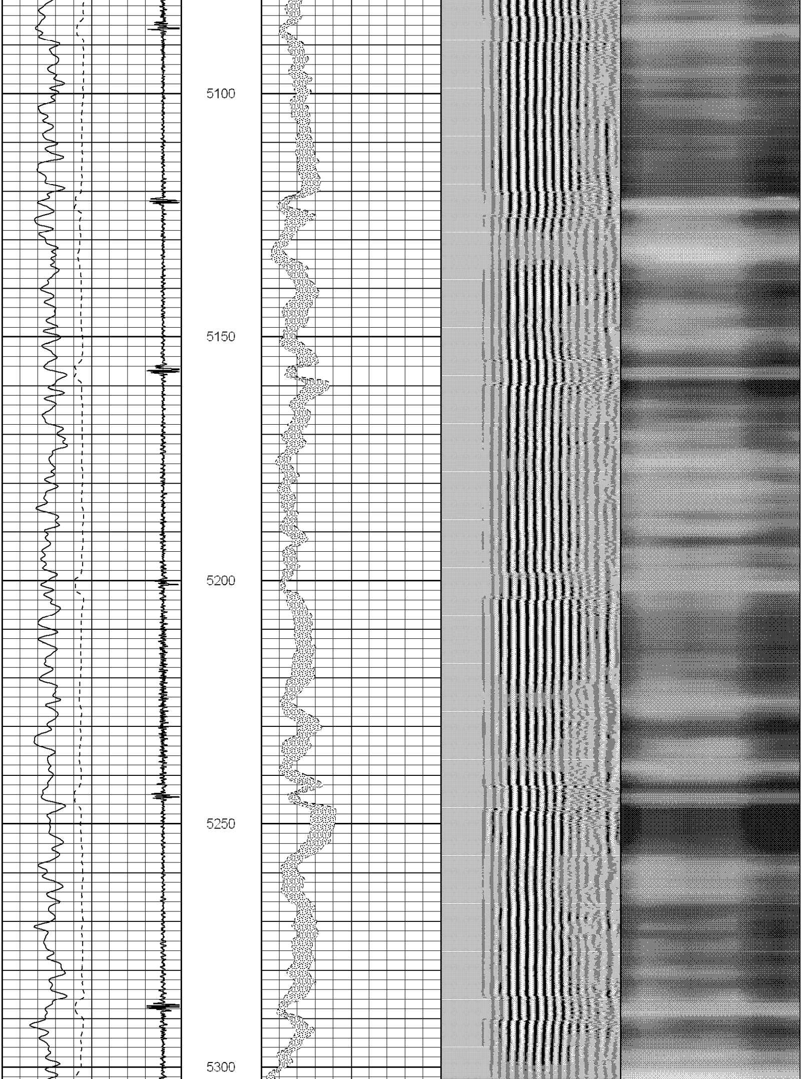


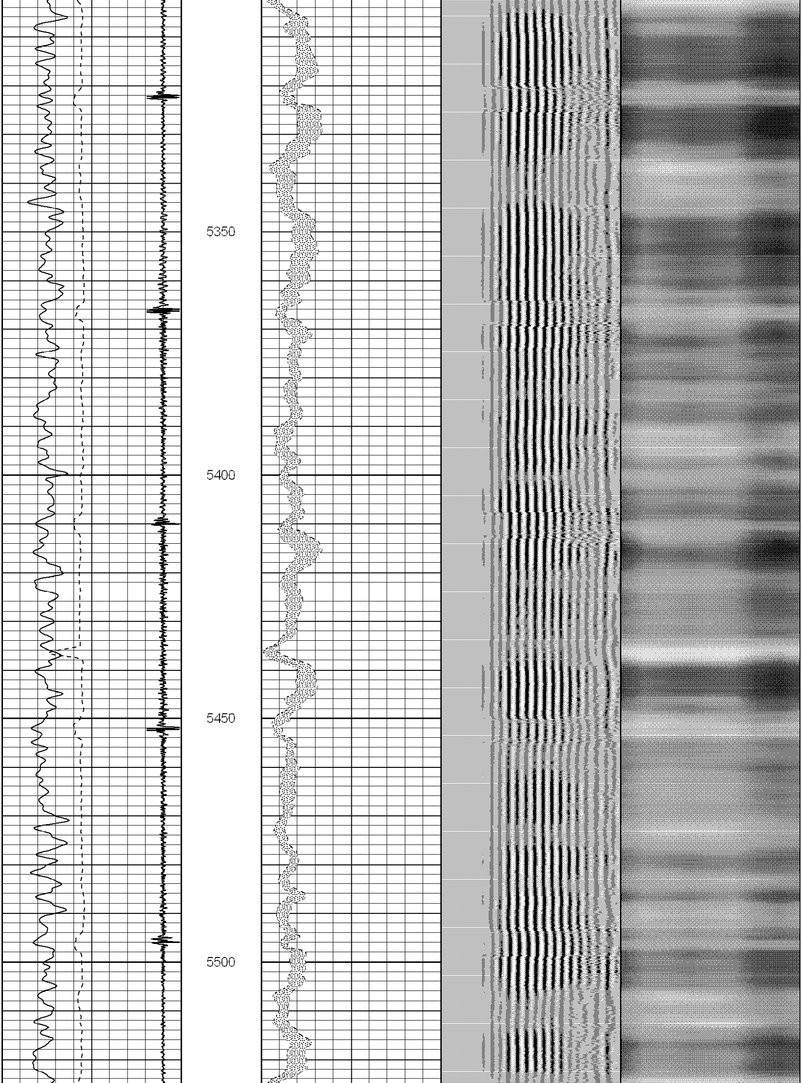
0 GR (GAPI) 150	0 AMPMAX 100	200 WVF5FT 1200	1 Sector Map 8
400 TT3FT (usec) 200	0 AMPAVG 100		
50 CCL -5.5	0 AMPMIN 100		
	0 AMP3FT (mV) 100		

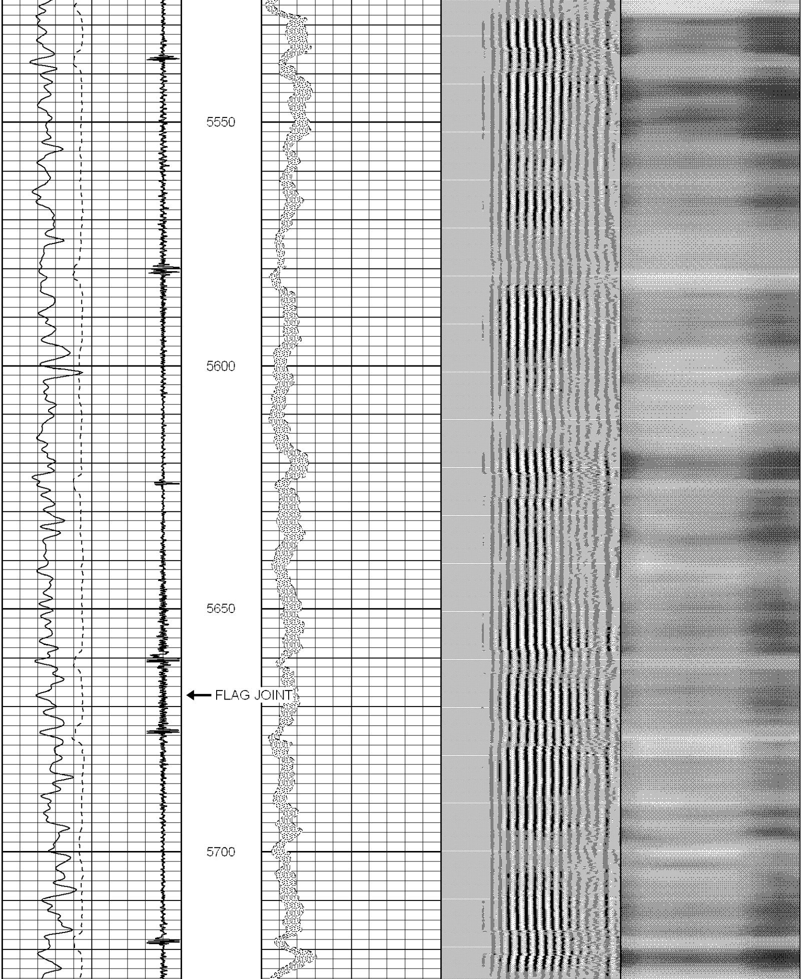
Database File: cbl noble slw ranch state b12-67-1hn.db
Dataset Pathname: pass2
Presentation Format: sector2
Dataset Creation: Mon May 13 07:23:24 2013 by Log SCH 120430
Charted by: Depth in Feet scaled 1:240

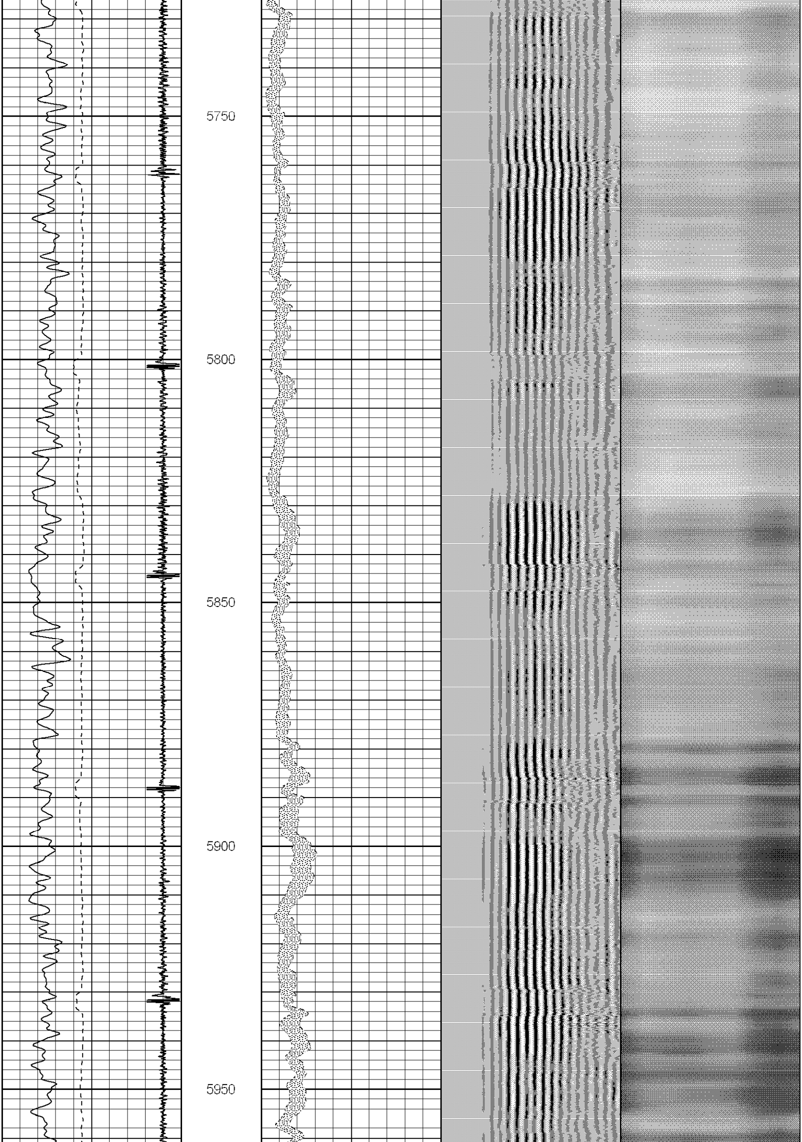
0 GR (GAPI) 200	0 AMPMAX 100	200 WVF5FT 1200	1 Sector Map 8
400 TT3FT (usec) 200	0 AMPAVG 100		
50 CCL -5.5	0 AMPMIN 100		
	0 AMP3FT (mV) 100		

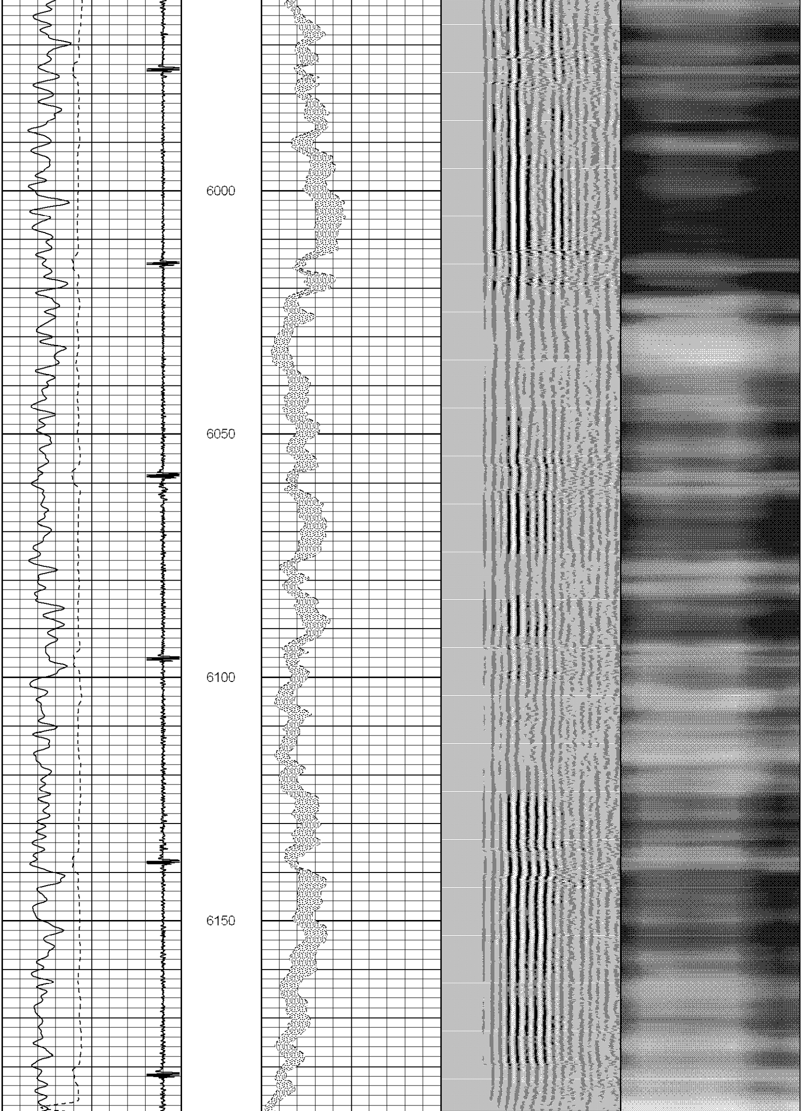


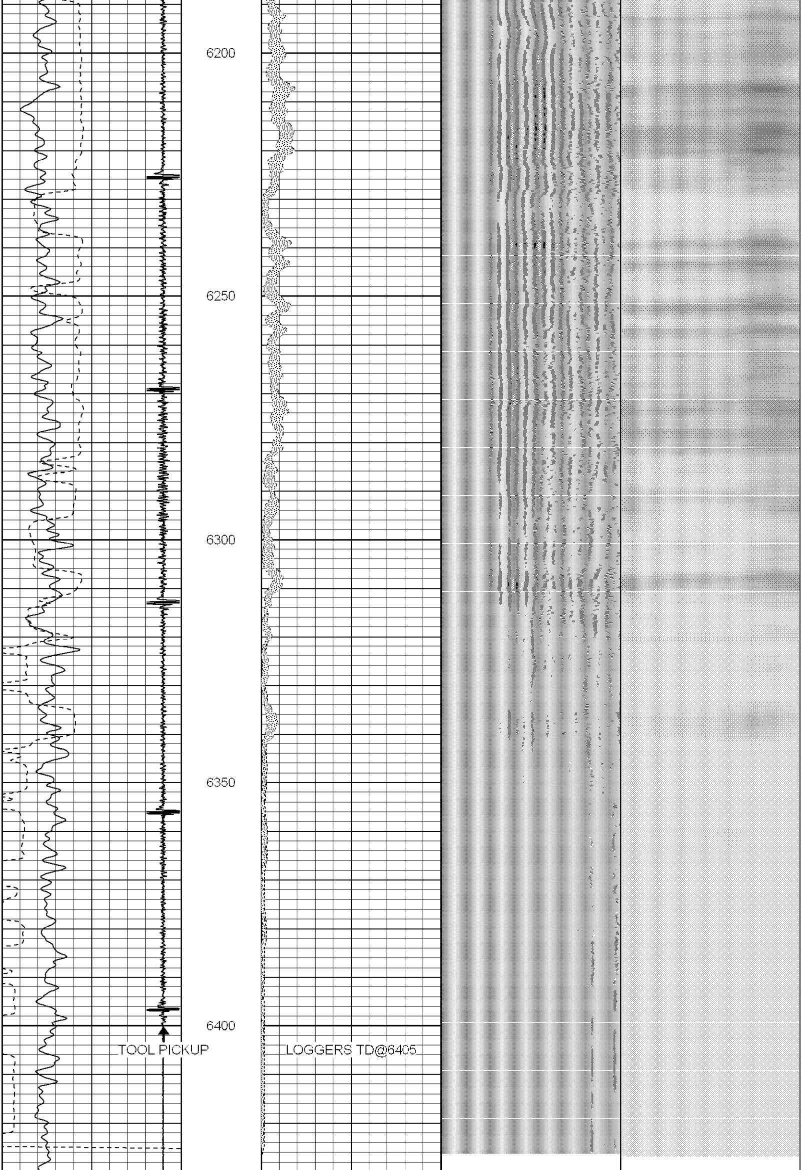


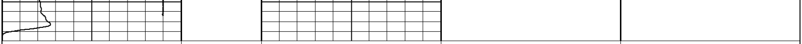












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400 TT3FT (usec) 200	0 AMPAVG 100		
50 CCL -5.5	0 AMPMIN 100		
	0 AMP3FT (mV) 100		

Calibration Report

Database File: cbl noble slw ranch state b12-67-1hn.db
Dataset Pathname: pass2
Dataset Creation: Mon May 13 07:23:24 2013 by Log SCH 120430

Gamma Ray Calibration Report

Type / Serial: Probe275dig / 110785

SHOP CALIBRATION Tue Apr 30 07:49:20 2013

	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	1.0				cps
		0.4700			GAPI/cps

PRIMARY VERIFICATION

	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

BEFORE SURVEY VERIFICATION

	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

AFTER SURVEY VERIFICATION

	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

Segmented Cement Bond Log Calibration Report

Serial Number:	101020	
Tool Model:	Probe	
Calibration Casing Diameter:	7.000	in
Calibration Depth:	309.567	ft

Master Calibration, performed Mon May 13 07:07:27 2013:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.008	1.007	1.500	62.165	60.707	1.035
CAL	0.008	1.458				
5'	0.008	1.170	1.500	62.165	52.213	1.096
SUM						
S1	0.008	1.156	0.000	62.165	54.128	-0.417
S2	0.008	1.136	0.000	62.165	55.114	-0.425
S3	0.008	1.053	0.000	62.165	59.454	-0.446
S4	0.008	0.928	0.000	62.165	67.568	-0.510
S5	0.008	0.830	0.000	62.165	75.554	-0.576
S6	0.007	0.840	0.000	62.165	74.649	-0.555
S7	0.008	0.984	0.000	62.165	63.707	-0.494
S8	0.008	1.134	0.000	62.165	55.203	-0.417

Internal Reference Calibration, performed Fri Jan 13 14:30:16 2012:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.008	1.458	1.000	0.000

Air Zero Calibration, performed Mon May 13 07:07:54 2013:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.008	0.000	-0.000
5'	0.008	0.000	0.000
SUM			
S1	0.008	0.000	0.000
S2	0.008	0.000	0.000
S3	0.008	0.000	-0.000
S4	0.008	0.000	-0.000
S5	0.008	0.000	-0.000
S6	0.008	0.000	-0.000
S7	0.008	0.000	0.000
S8	0.008	0.000	-0.000