Casedhole Solutions

GAMMA RAY CCL
CEMENT BOND VDL

Company	NOBLE ENERGY INC.	Company	NOBLE ENERGY INC.
Well	HSR HINDE 7-20	Well	HSR HINDE 7-20
Field	WATTENBERG	Field	WATTENBERG
County	WELD	County	WELD
State	COLORADO	State	COLORADO

Location: API #: 0512316400

SW/NE

SEC 20 TWP 4N RGE 65W

Other Services

Permanent Datum	GL	Elevation	4794
Log Measured From	KB		
Drilling Measured From	KB		

Elevation
K.B. 4804
D.F.
G.L. 4794

Date	NOVEMBER 23, 2015		
Run Number	ONE		
Depth Driller	7353		
Depth Logger	2000		
Bottom Logged Interval	2000		
Top Log Interval	SURFACE		
Casing Size	4-1/2		
Type Fluid	WATER		
Max. Recorded Temp.	N/A		
Estimated Cement Top	SURFACE		
Time Well Ready	LEED RIG		
Time Logger On Bottom	7:45		
Unit Number	92-2338		
Tool Size / ID Number	2-3/4 PROBE		
Location	45		
Recorded By	GREG NOLAN		
Witnessed By	PETE BURNS		

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#	SURFACE	381
Prot. String				
Production String	4-1/2	11.6# I-70	SURFACE	7335
Liner				

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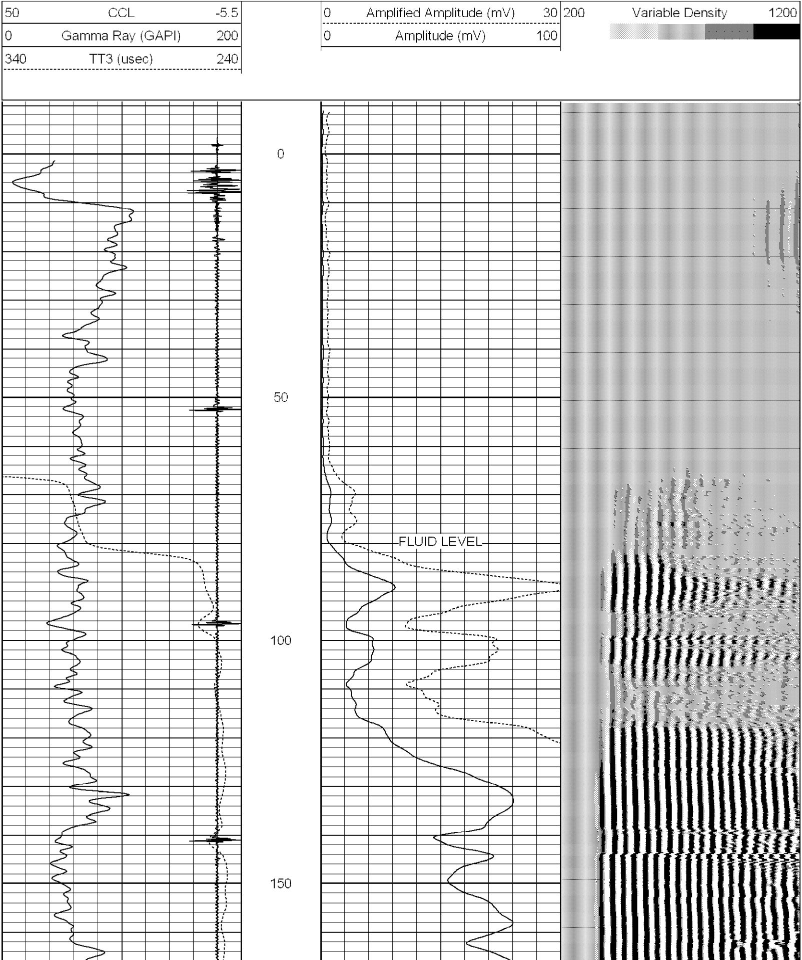
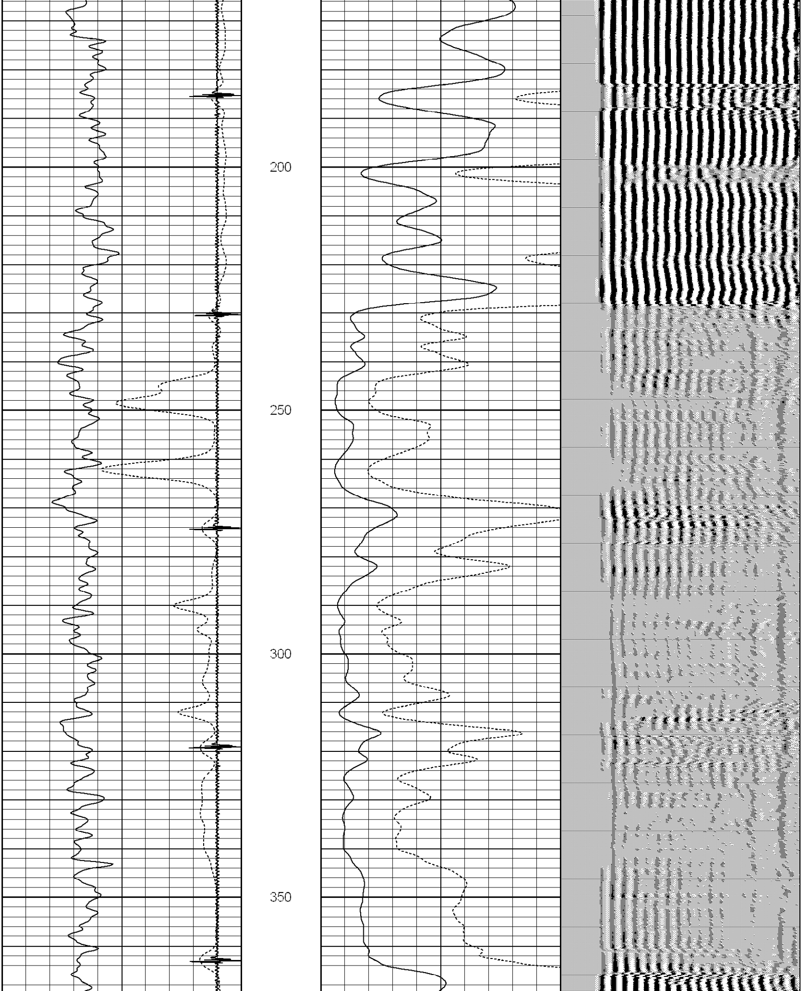
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

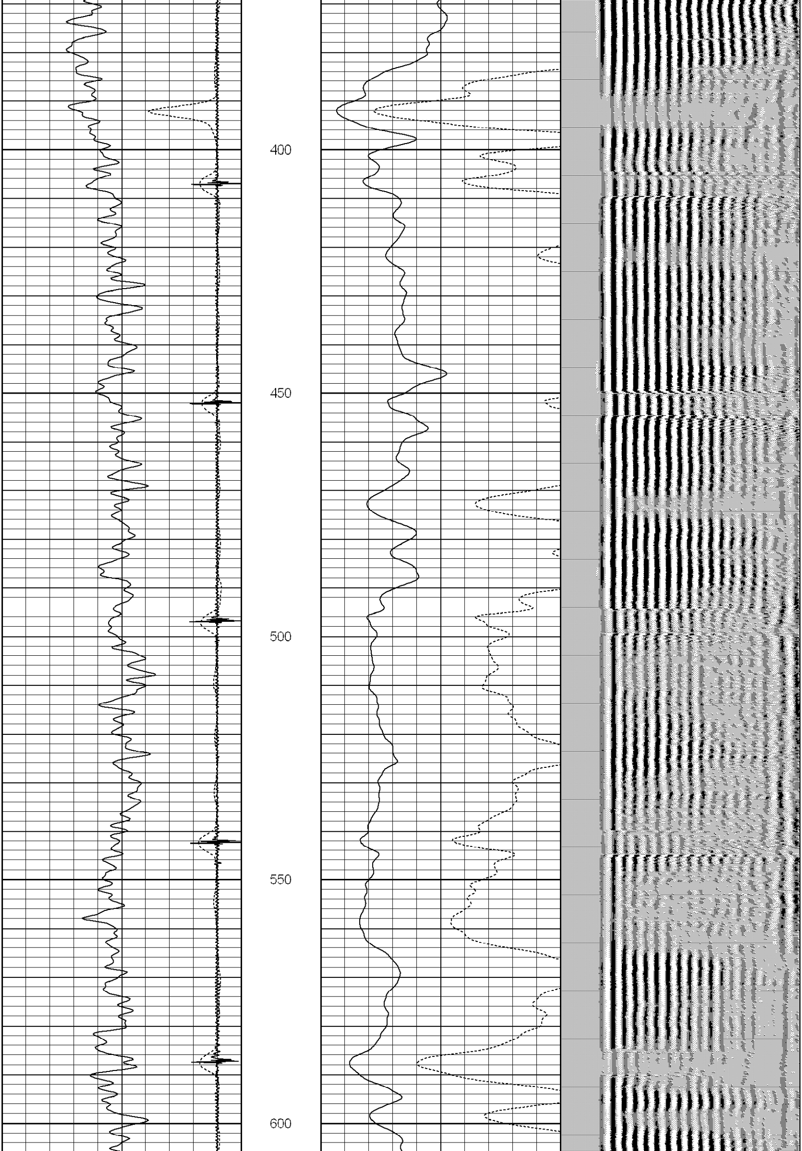
Comments

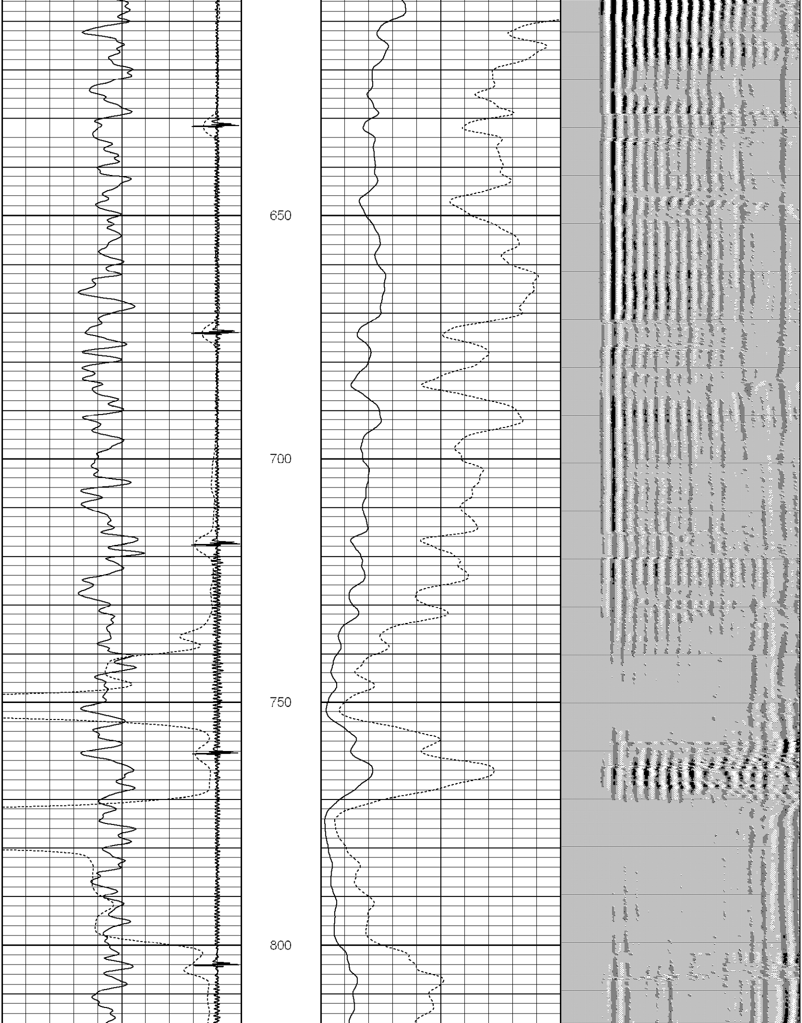
THANK YOU FOR CHOOSING CHS!!!!!
LOG NOT CORRLELATED

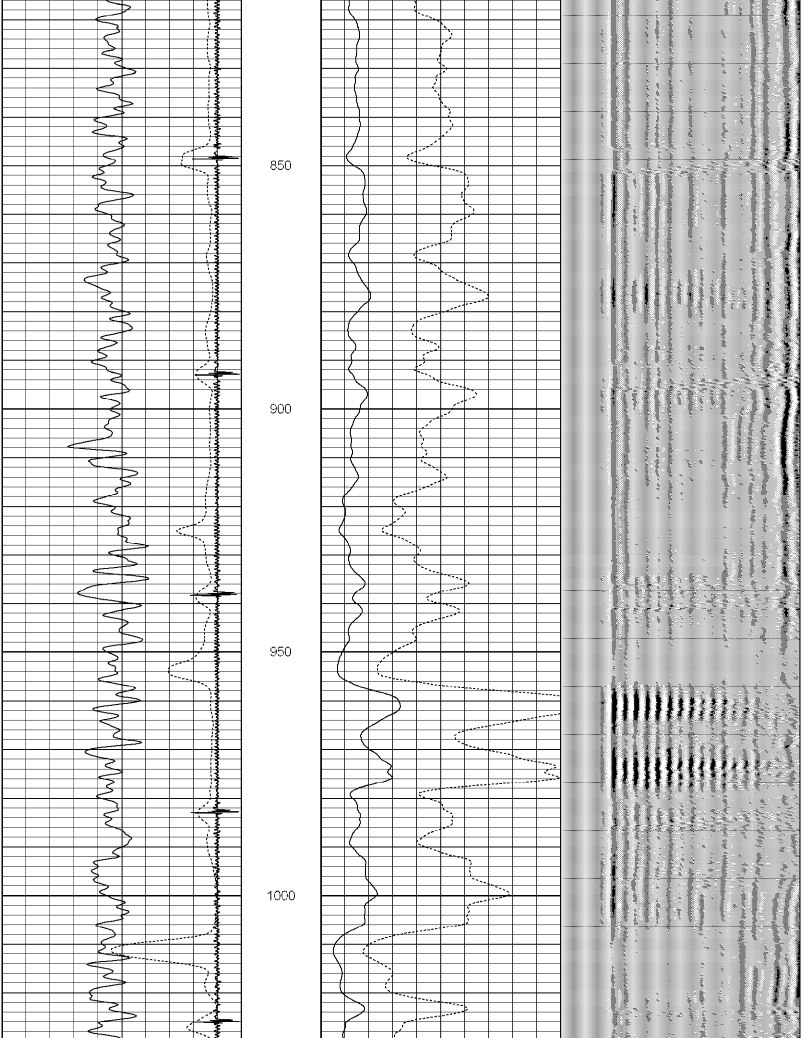
Database File:	cbl noble hsr hinde 7-20.db
Dataset Pathname:	pass3
Presentation Format:	noble en
Dataset Creation:	Mon Nov 23 07:48:43 2015 by Log SCH 120430
Charted by:	Depth in Feet scaled 1:240

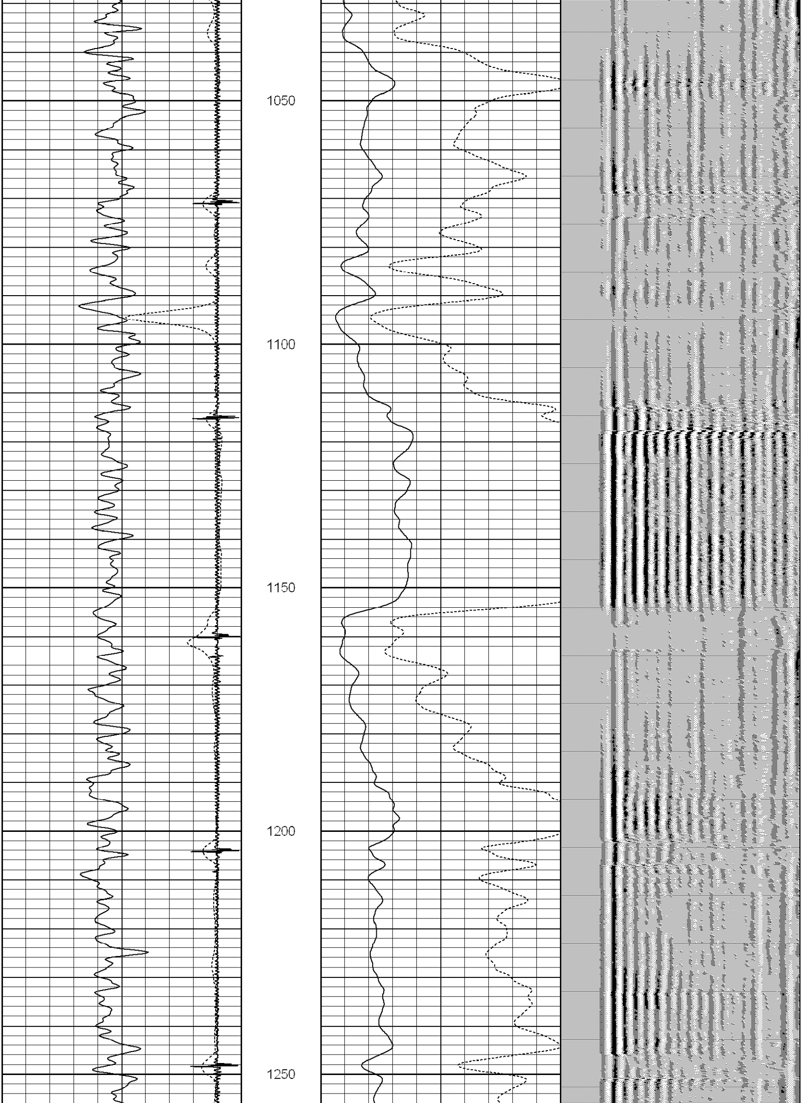


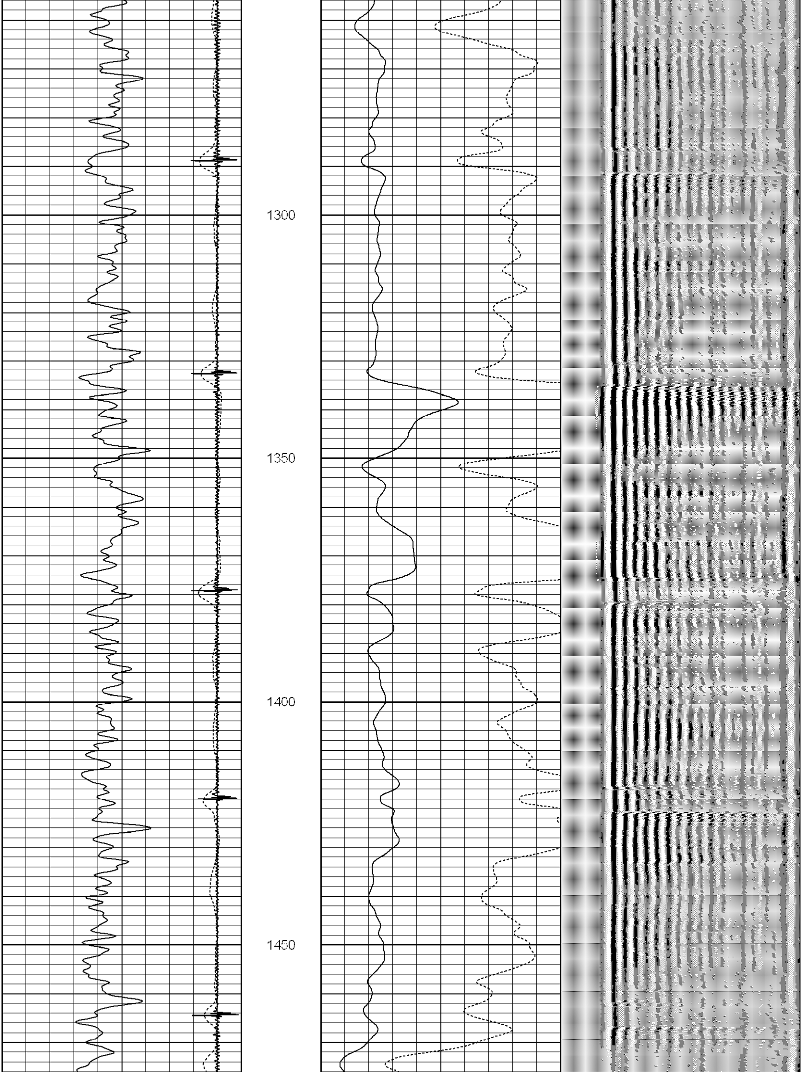


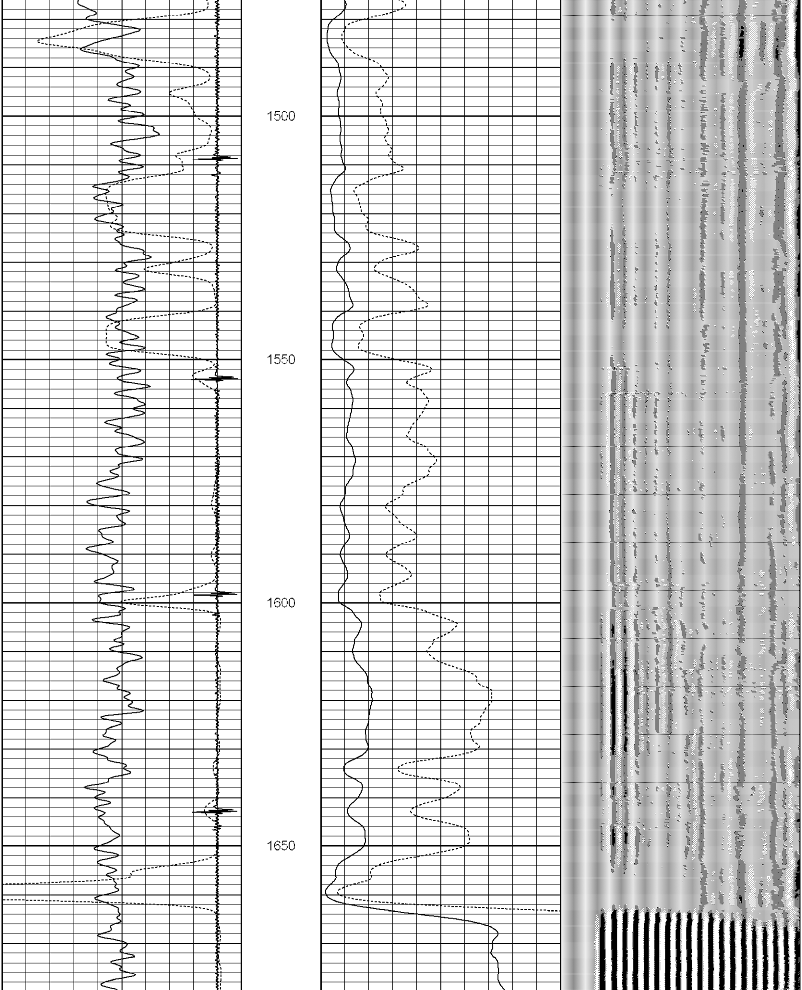


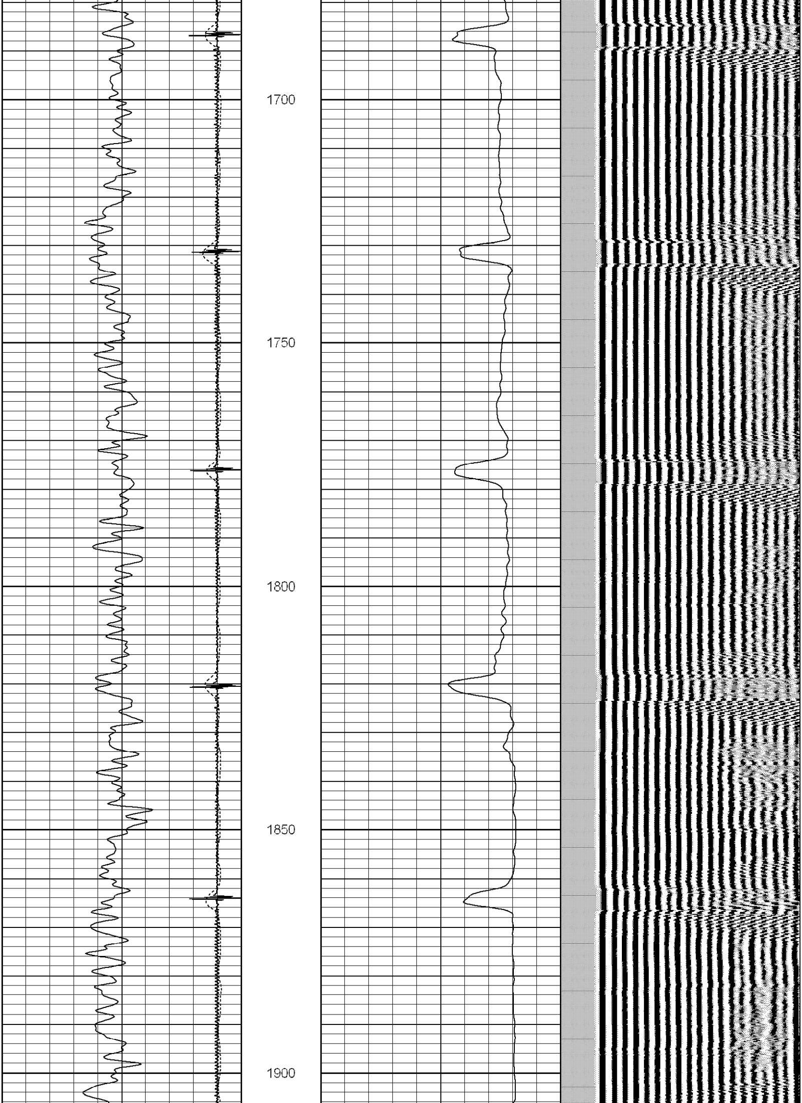


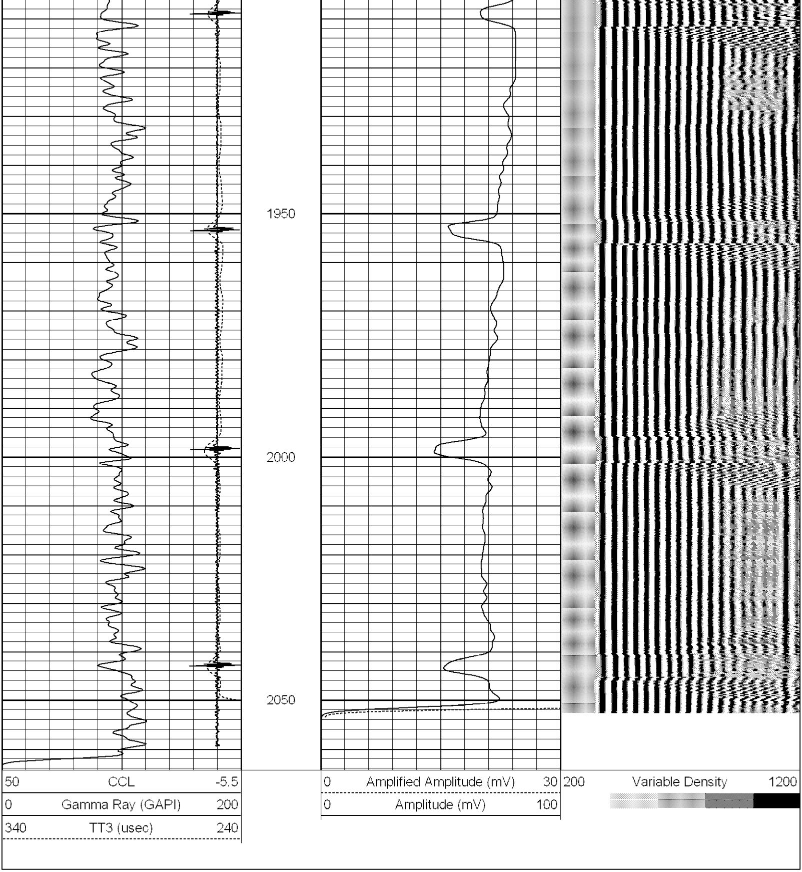












Calibration Report

Database File: cbl noble hsr hinde 7-20.db
Dataset Pathname: pass3
Dataset Creation: Mon Nov 23 07:48:43 2015 by Log SCH 120430

Gamma Ray Calibration Report

Type / Serial: Probe275dig / 110785

SHOP CALIBRATION Wed Jul 08 08:49:56 2015

	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	1.0				cps
		0.9000			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

Cement Bond Log Calibration Report

Serial Number: 110802
Tool Model: Probe275Digital
Performed: Mon Nov 23 07:47:58 2015

Depth: 2063.21 ft
Casing Diameter: 4.5 in

	3' Spacing	5' Spacing	
Signal Zero:	0.7	0	mV
Calibrated Amplitude:	81.1961	81.1961	mV
Reading at Signal Zero:	0.00725098	0.00732422	V
Reading in Free Pipe:	2.49265	2.43638	V
Gain:	32.3876	33.4271	
Offset:	0.465158	-0.244827	