Casedhole Solutions®

GAMMA RAY CCL
CEMENT BOND VDL

Company	NOBLE ENERGY INC
Well	TYE USX A15-04D
Field	WATTENBERG
County	WELD
State	COLO

Company NOBLE ENERGY INC

Well TYE USX A15-04D

Field WATTENBERG

County WELD **State** COLO

Location: API # : 05-123-33913

SE/NW

SEC 15 TWP 6N RGE 64W

Other Services

Permanent Datum	GL	Elevation	4797
Log Measured From	KB		
Drilling Measured From	KB		

Elevation

K.B. 4811
D.F.
G.L. 4797

Date	APR-25-16		
Run Number	ONE		
Depth Driller	7594		
Depth Logger	1810		
Bottom Logged Interval	1810		
Top Log Interval	SURFACE		
Casing Size	4.5		
Type Fluid	WATER		
Max. Recorded Temp.	NA		
Estimated Cement Top	1500		
Time Well Ready	7:00		
Time Logger On Bottom	8:00		
Unit Number	92-3827		
Tool Size / ID Number	1 11/16 PROBE		
Location	STERLING		
Recorded By	KYLE GIRDLER		
Witnessed By	TYSON H.		

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	905
Prot. String	4.5	11.6	SURFACE	7594
Production String				
Liner				

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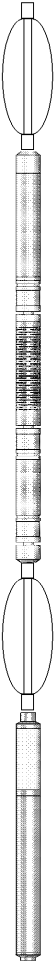
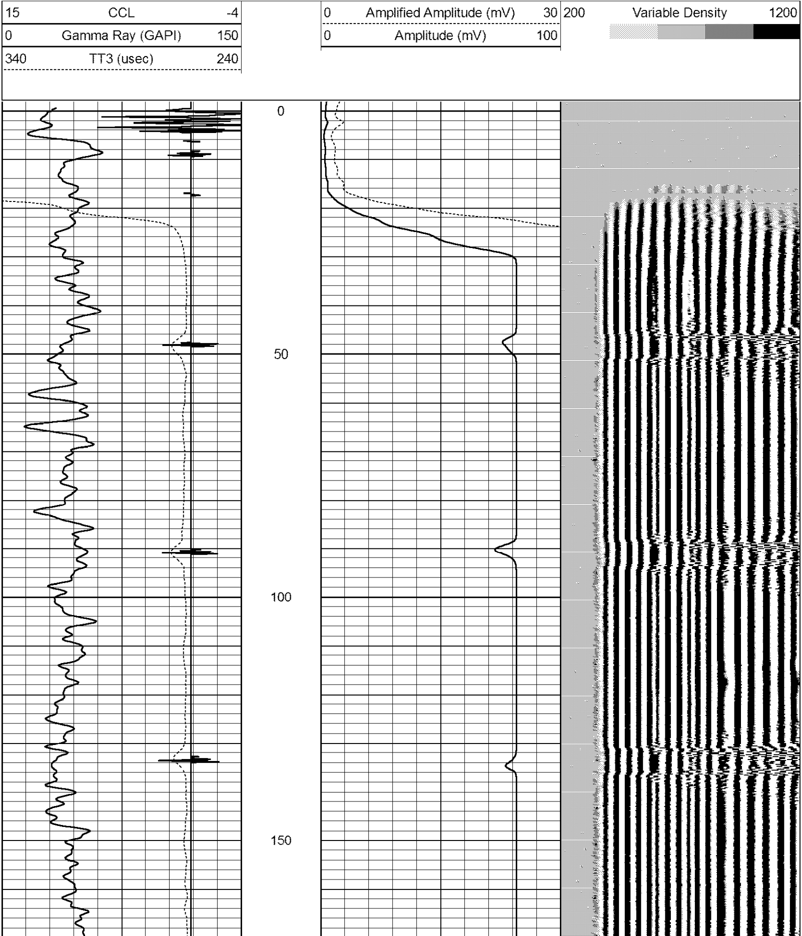
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

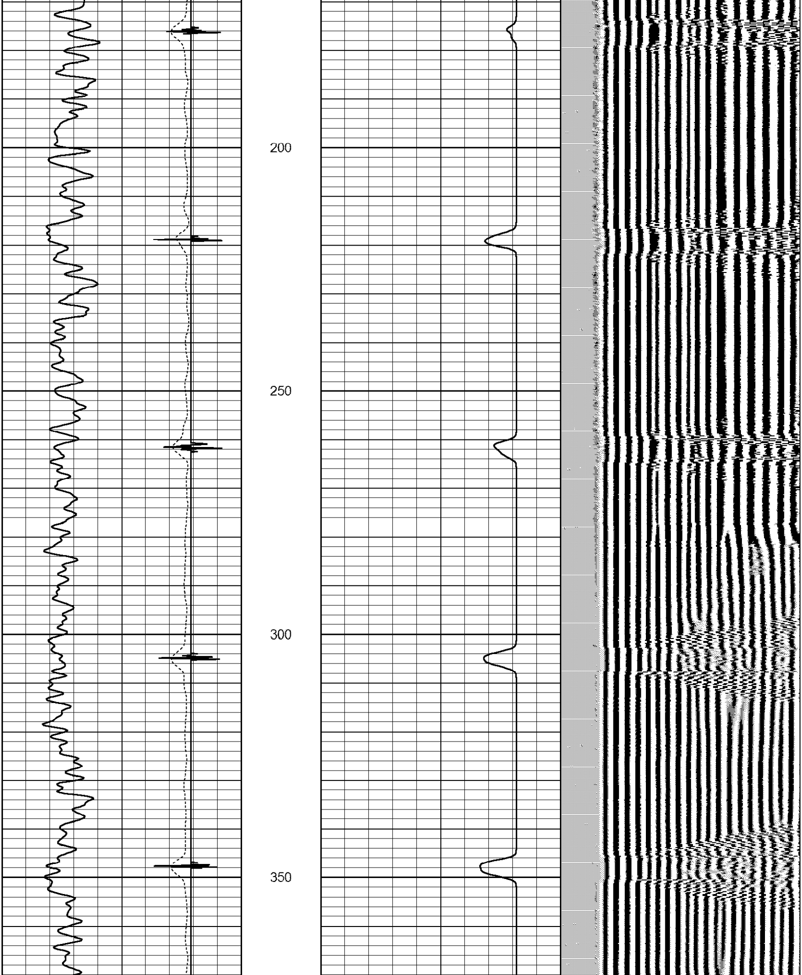
Comments

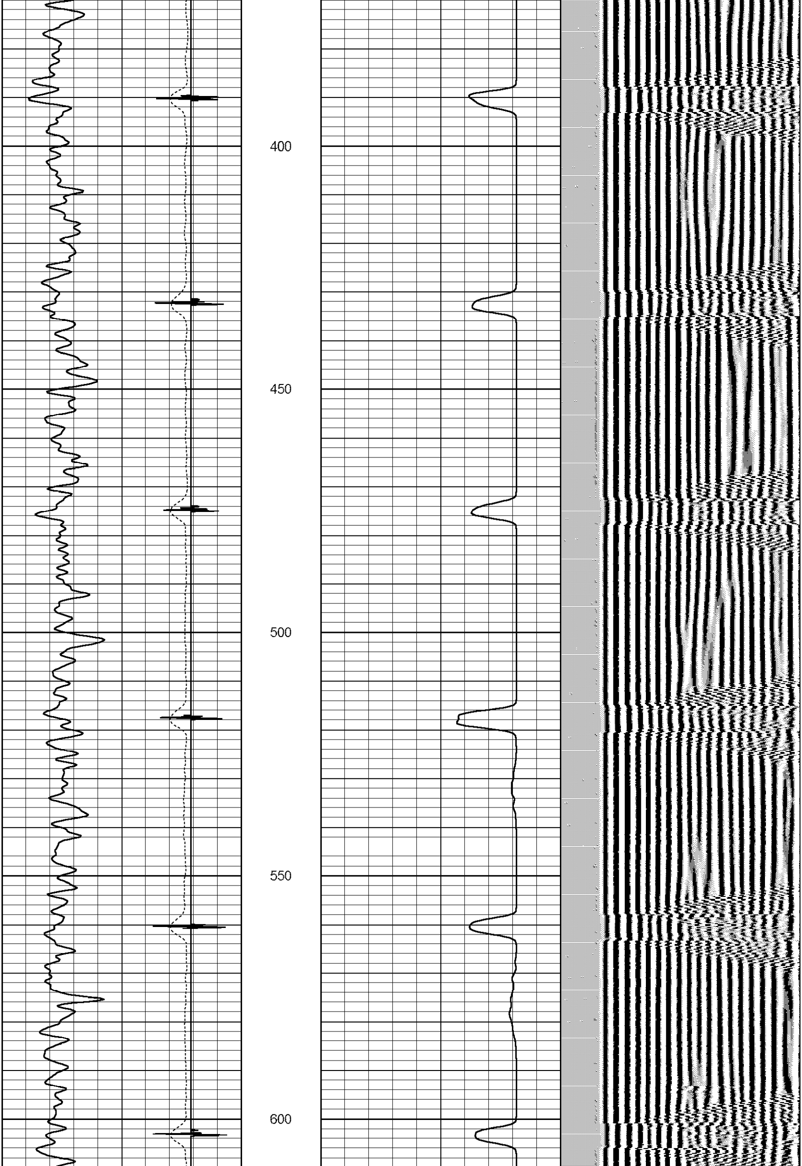
Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			1 PROBE	3.13	2.00	8.00
WVF3	12.59		CBL-Probe (FW1406-029) 1-11/16	8.60	1.69	41.00
WVF5	11.59					
			1 PROBE	3.13	2.00	8.00
CCL	4.08					
			GR-CCL/GR (FW1406-009) 1-11/16	5.21	1.69	
GR	0.57					

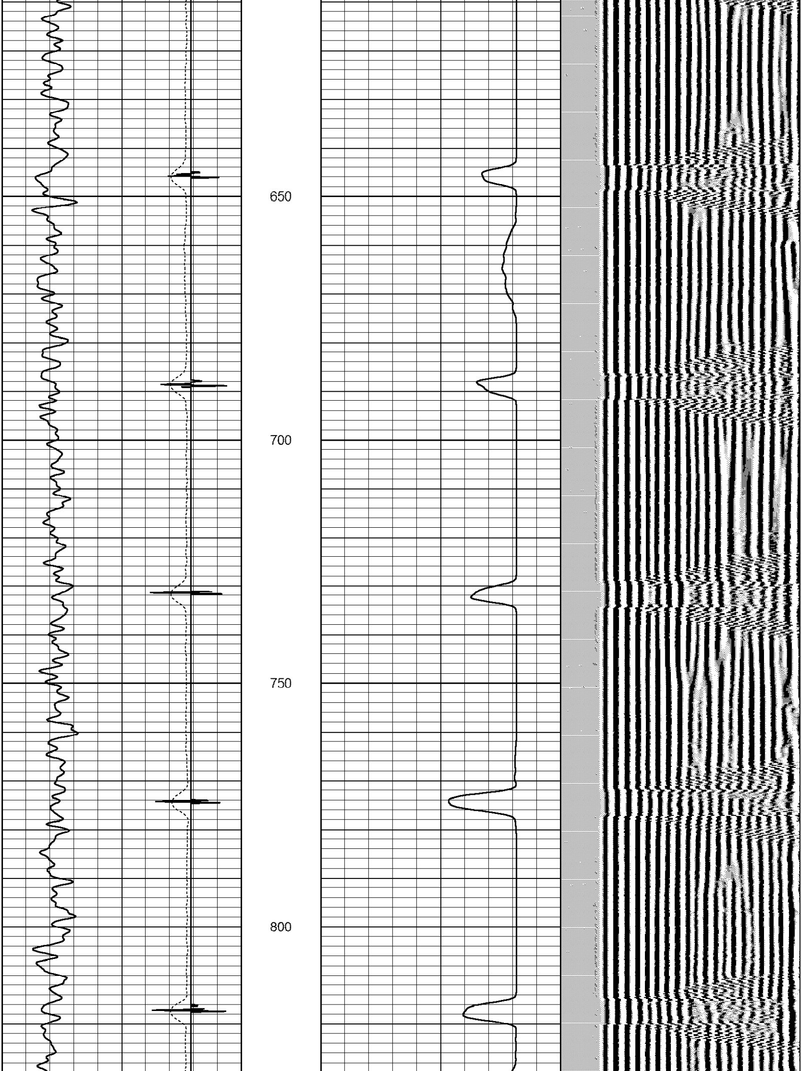
Dataset: tye usx a15-04d.db: field/well/run1/pass6
Total Length: 20.07 ft
Total Weight: 57.00 lb
O.D. 2.00 in

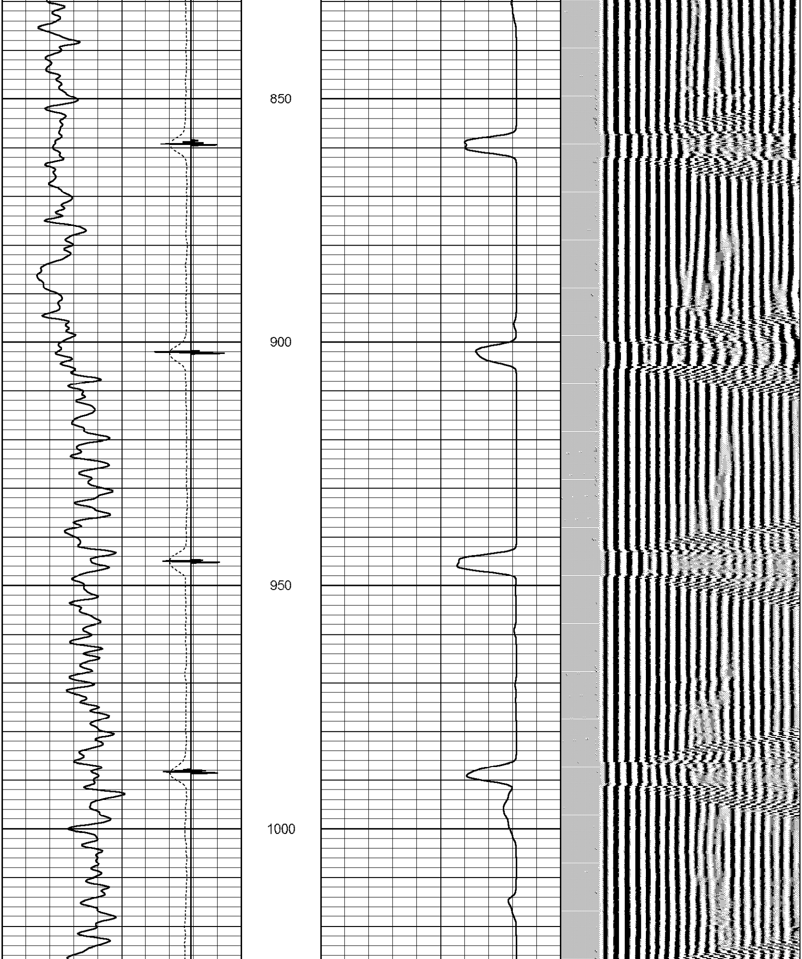
Database File:	tye usx a15-04d.db
Dataset Pathname:	pass6
Presentation Format:	nuexcbl
Dataset Creation:	Mon Apr 25 07:57:38 2016 by Log 7.0 B1
Charted by:	Depth in Feet scaled 1:240

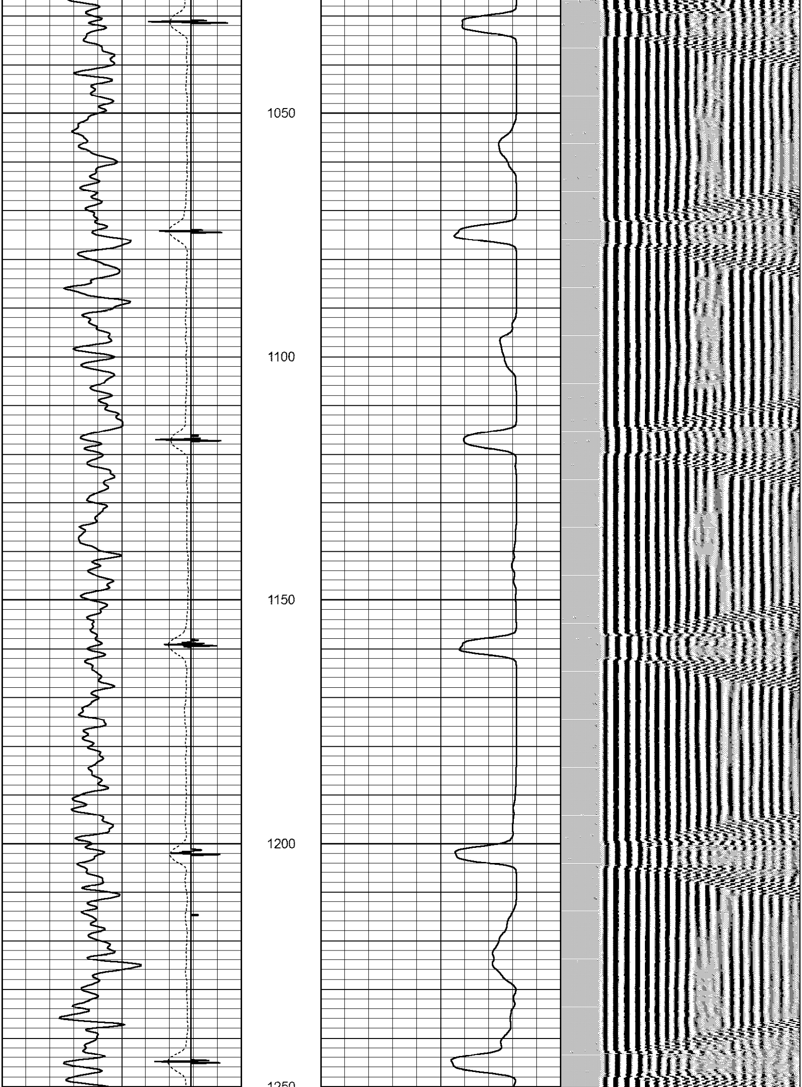


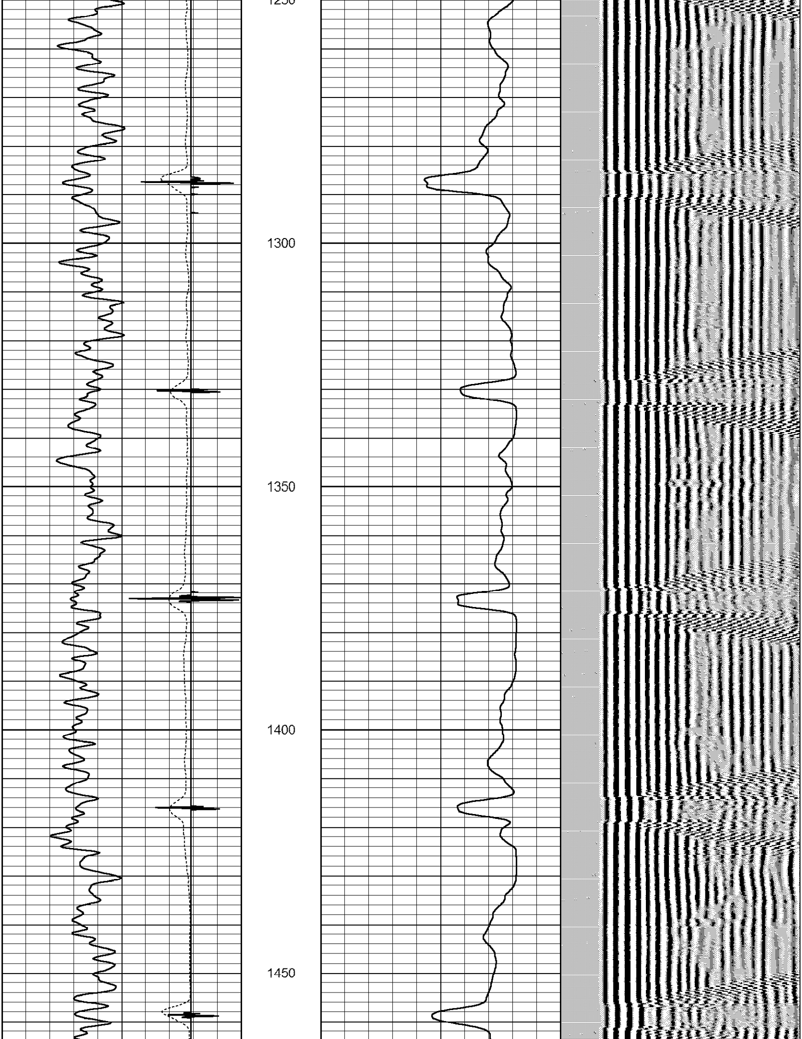


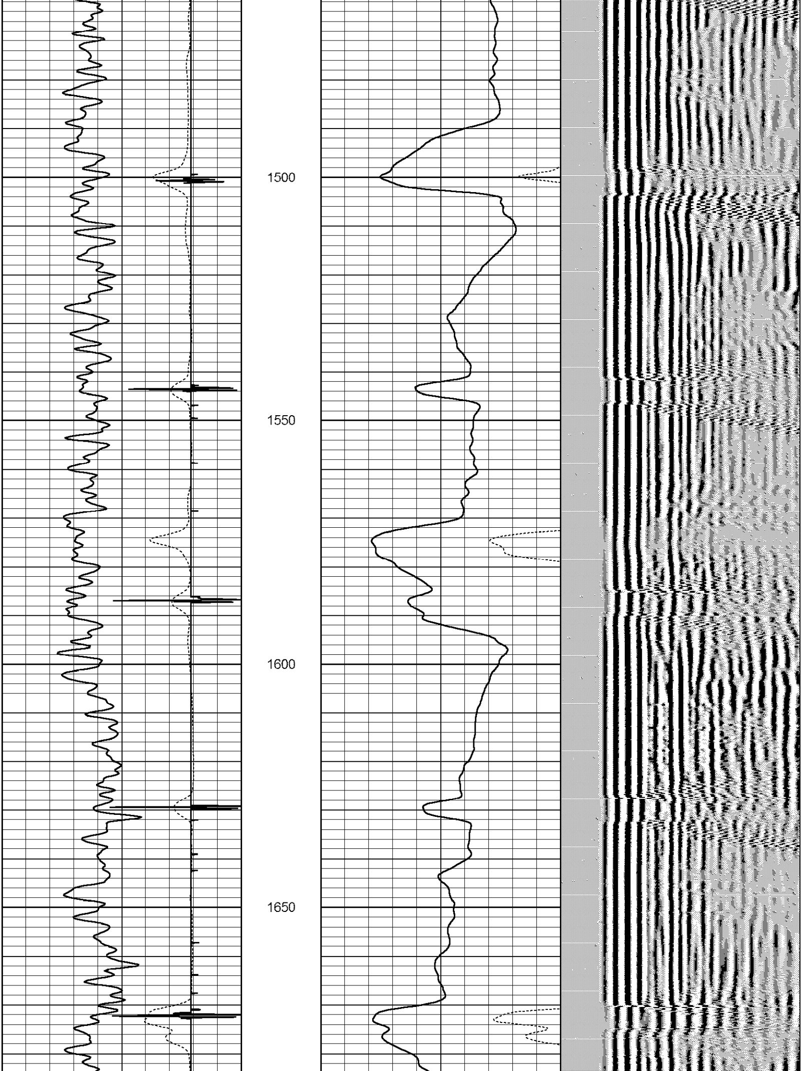


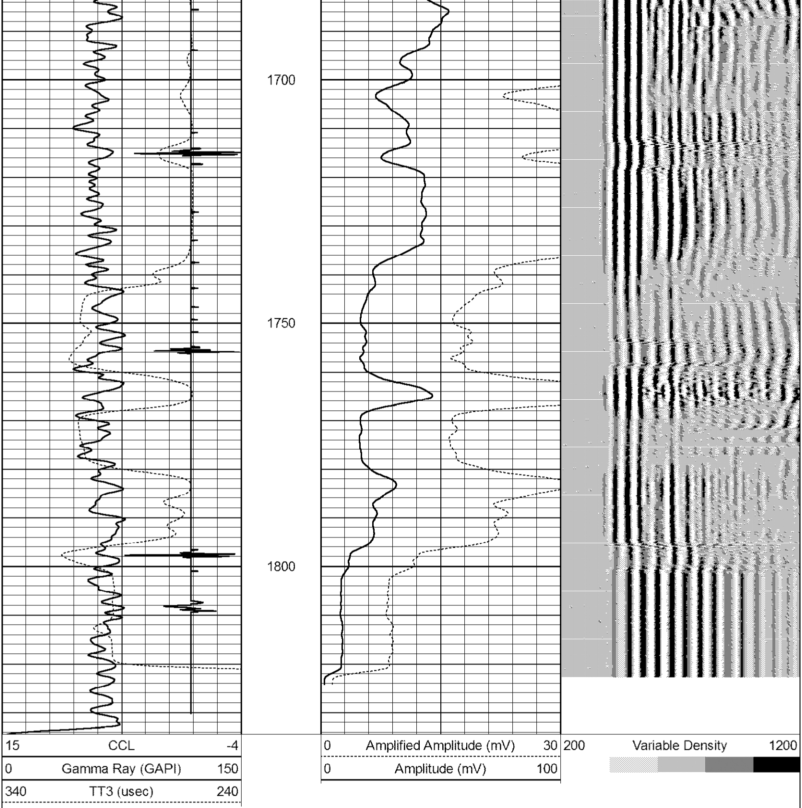












Calibration Report

Database File: tye usx a15-04d.db
Dataset Pathname: pass6
Dataset Creation: Mon Apr 25 07:57:38 2016 by Log 7.0 B1

Gamma Ray Calibration Report

Type / Serial: CCL/GR / FW1406-009

SHOP CALIBRATION	Counts/Sec.	Gain	Offset	Jig	Units
Thu Jun 11 13:08:30 2015					
Background	0.0				cps
Calibrator	1.0				cps
		0.7000			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:	FW1406-029	
Tool Model:	Probe	
Performed:	Tue Apr 19 08:24:29 2016	
Depth:	417.142	ft
Casing Diameter:	4.5	in

	3' Spacing	5' Spacing	
Signal Zero:	1.5	0	mV
Calibrated Amplitude:	81.1961	81.1961	mV
Reading at Signal Zero:	0.00144043	0.0013916	V
Reading in Free Pipe:	2.48704	2.47954	V
Gain:	32.0632	32.7648	
Offset:	1.45382	-0.0455956	