gyrodata

CEMENT BOND LOG

Company	EXTRACTION OIL & GAS
Well	WINDSOR LV G-14H
Field	WATTENBERG
County	WELD
State	CO

Company **EXTRACTION OIL & GAS**

Well **WINDSOR LV G-14H**

Field **WATTENBERG**

County **WELD** **State** **CO**

API No.: 05-123-39054 Serv #: 1007

Location: **1405' FNL & 265' FEL**
LAT: 40.490420
LONG: -104.852260

Sec: 14 Twp:6N Rge: 67W

Other Services

TEMPERATURE
GAMMA SURVEY
CCL

Permanent Datum	GROUND LEVEL	Elevation	4848'
Log Measured From	KB , 24 Ft. above perm. datum		
Drilling Measured From	KB		

Elevation	
K.B.	4872'
D.F.	------
G.L.	4848'

Date @ Time Logged	5 JAN 2015 @ 2100 HRS	Type Fluid in Hole	WATER
Run No.	ONE	Density of Fluid	8.4 PPG
Depth - Driller	11,692'	Fluid Level	SURFACE
Depth - Logger	6770'	Cement Top Est. Logged	SURFACE
Bottom - Logged Interval	6758'	Equipment / Location	GD 114 / CASPER,WY
Top - Log Interval	SURFACE	Recorded by	J. BAKER
Max. Recorded Temp.	215°F	Witnessed by	TROY

CEMENTING DATA	Surface String	Protection String	Production String	Liner
Date / Time Cemented				
Primary / Squeeze				
Expected Compressive Strength	psi@ hrs	psi@ hrs	psi@ hrs	psi@ hrs
Cement Volume				
Cement Type / Weight	/	/	/	/
Formulation				
Mud Type / Mud Wgt.	/	/	/	/

Borehole Record				Casing & Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
				9 5/8"	36#	SURFACE	700'
				7"	26#	SURFACE	7600'
				4 1/2"	11.6#	6600'	11,844'

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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

Cement Bond Log was the initial log ran on the well dated1/05/2015
Cement top was estimated at surface.
Max temp on bottom was 215°F
Kick off Point was unknow to logging crew

Your crew today was B. Kennicker, M. Stewart

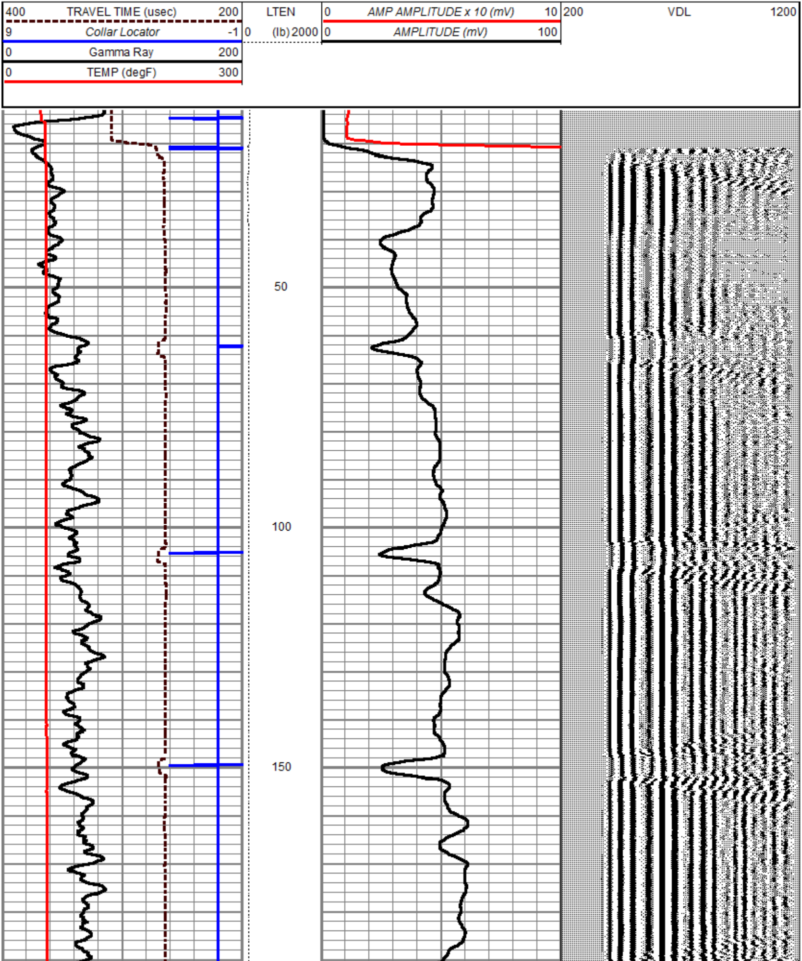
Thank you for using Gyrodata Logging Services, Casper, WY

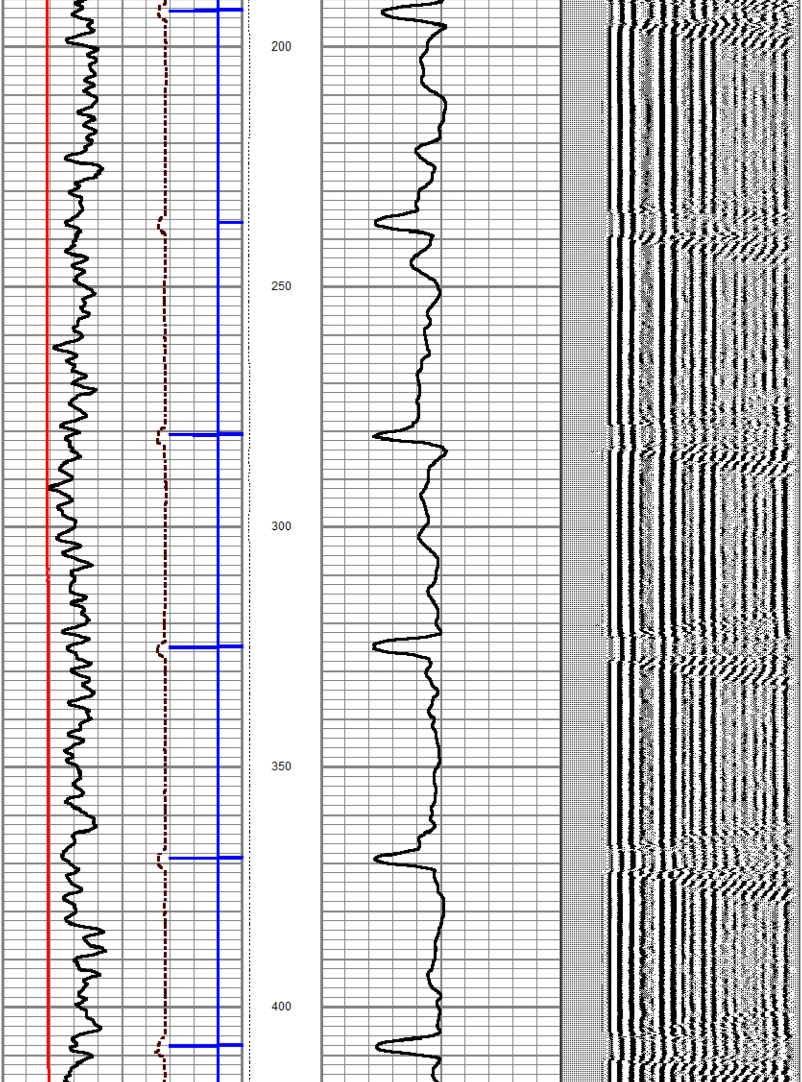
CEMENT BOND PRESENTATION

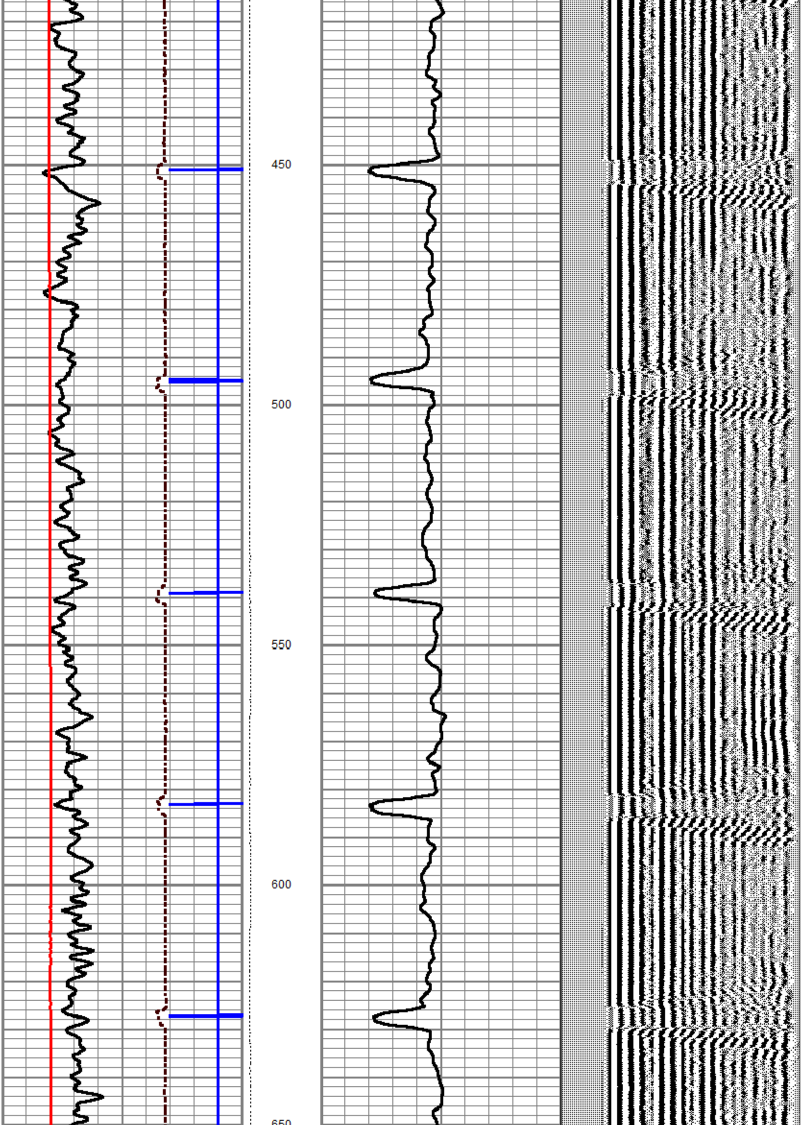
MAIN LOG SECTION / 0 PSI

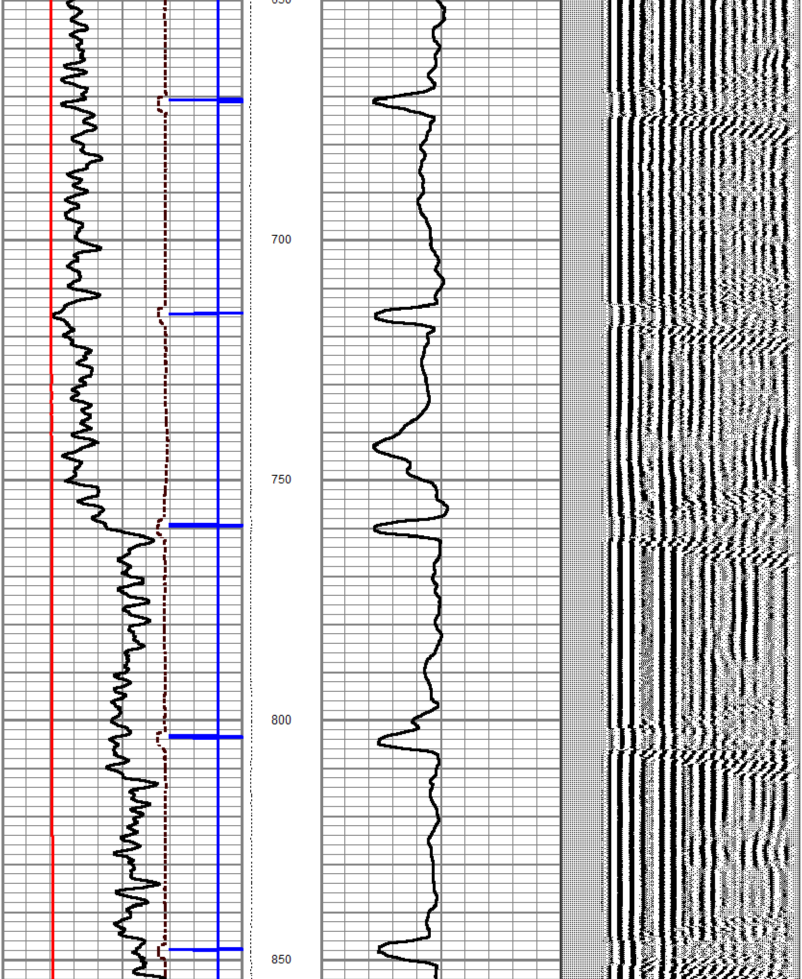
5" = 100'

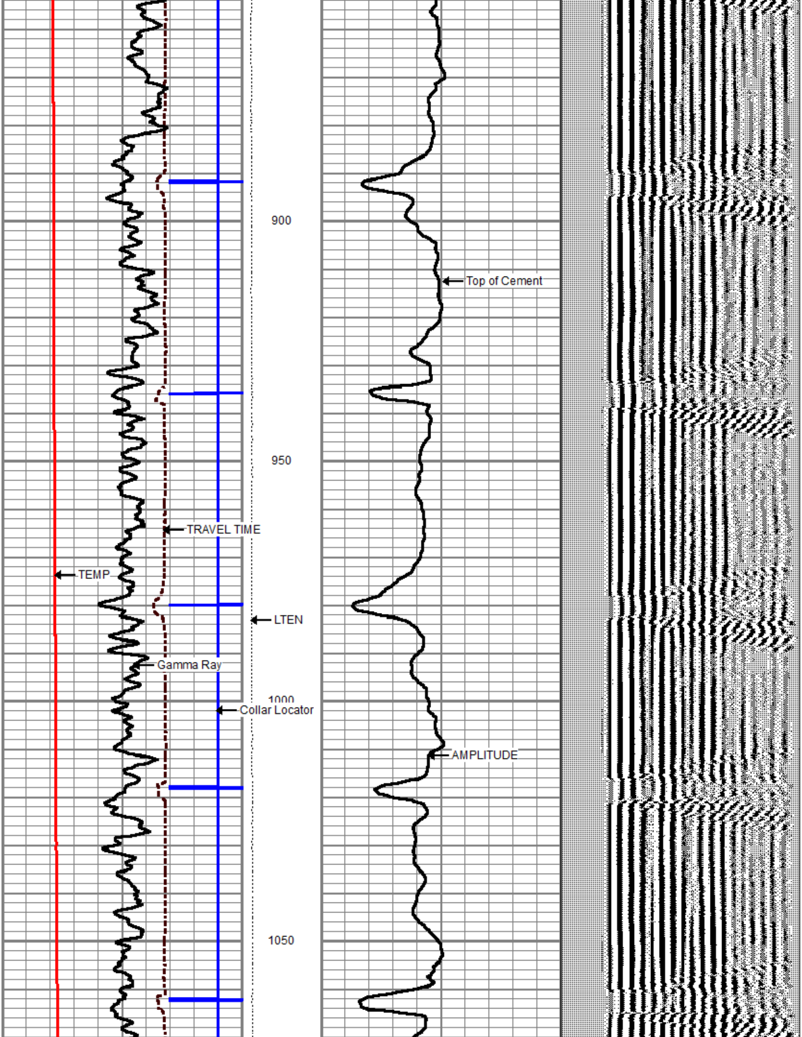
Database File	f:\well database\extraction\2015_extraction_windsor_lv_c_14_h\warrior\2015_extraction_windsor_lv_c_14_h.db
Dataset Pathname	pass1.1
Presentation Format	cbl_drs
Dataset Creation	Sun Jan 04 23:45:57 2015
Charted by	Depth in Feet scaled 1:240

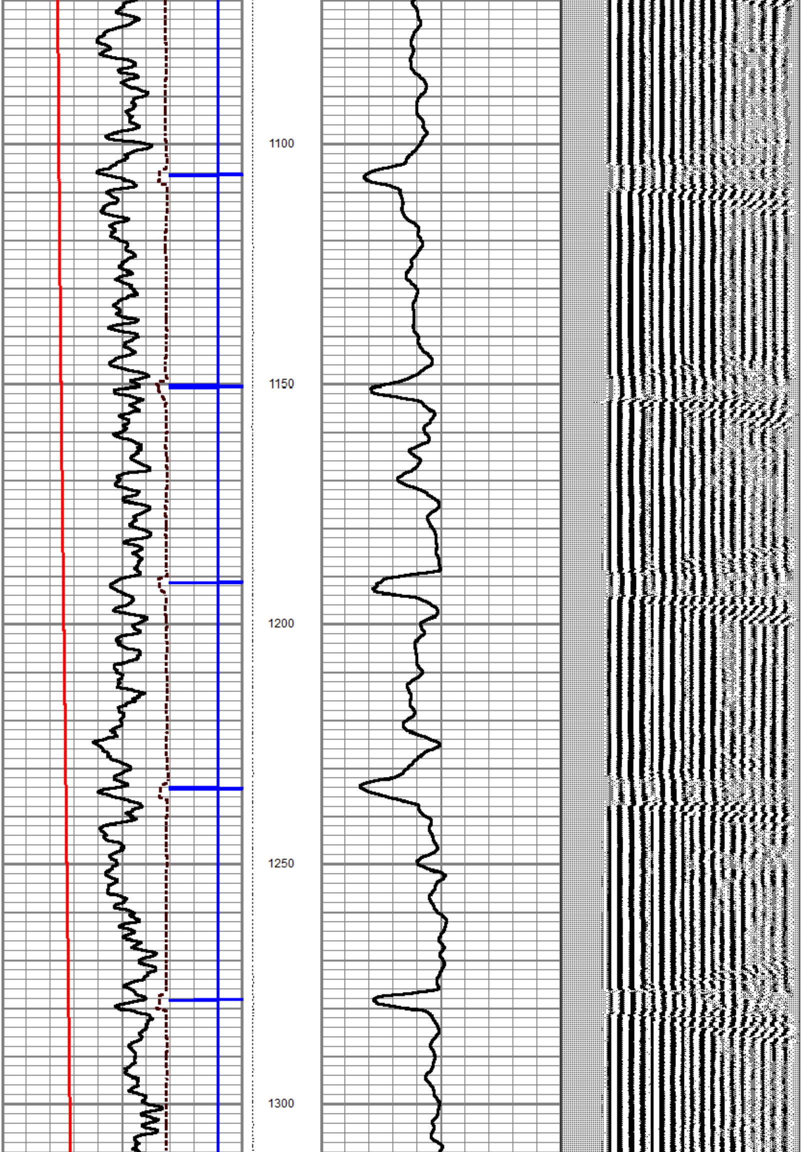


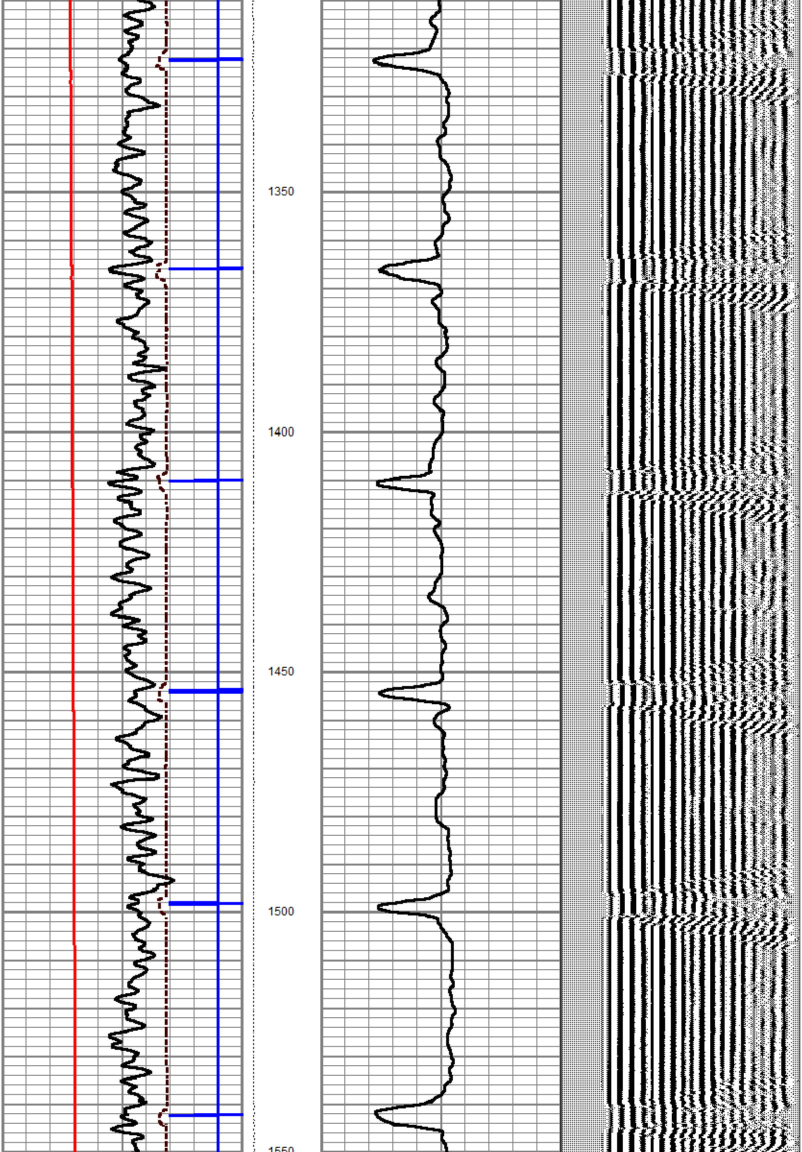


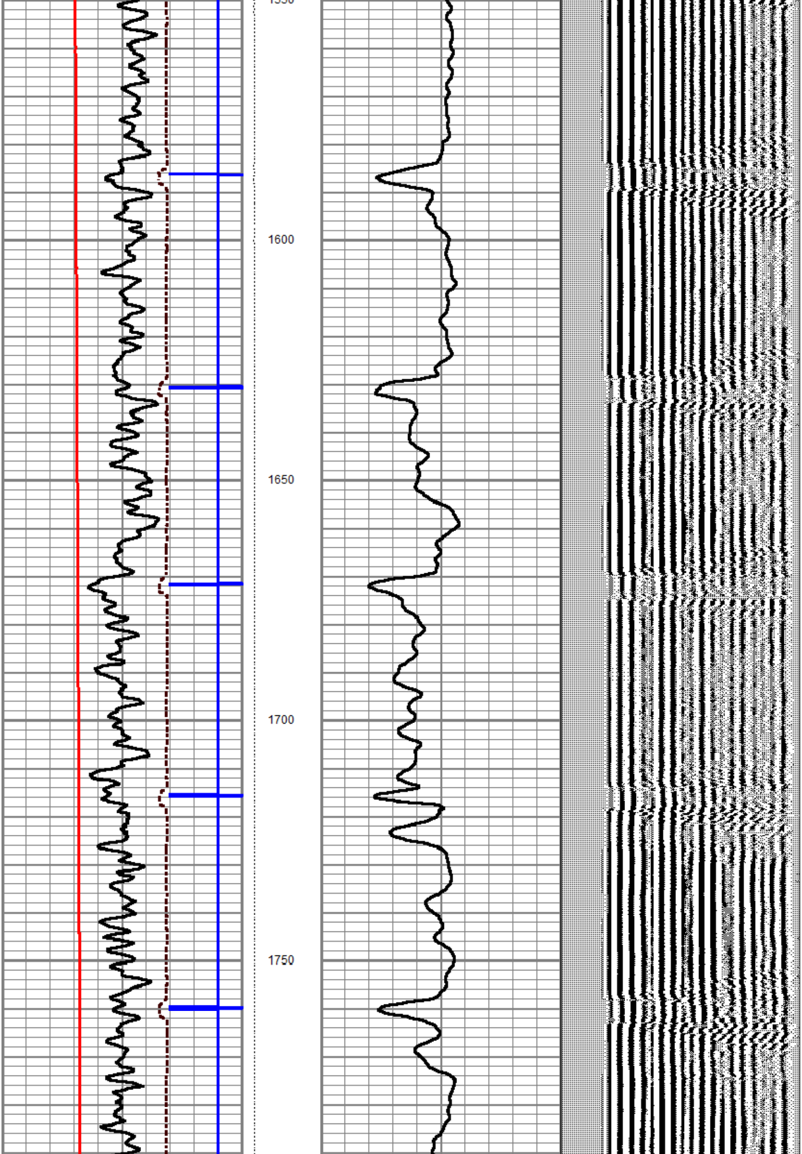


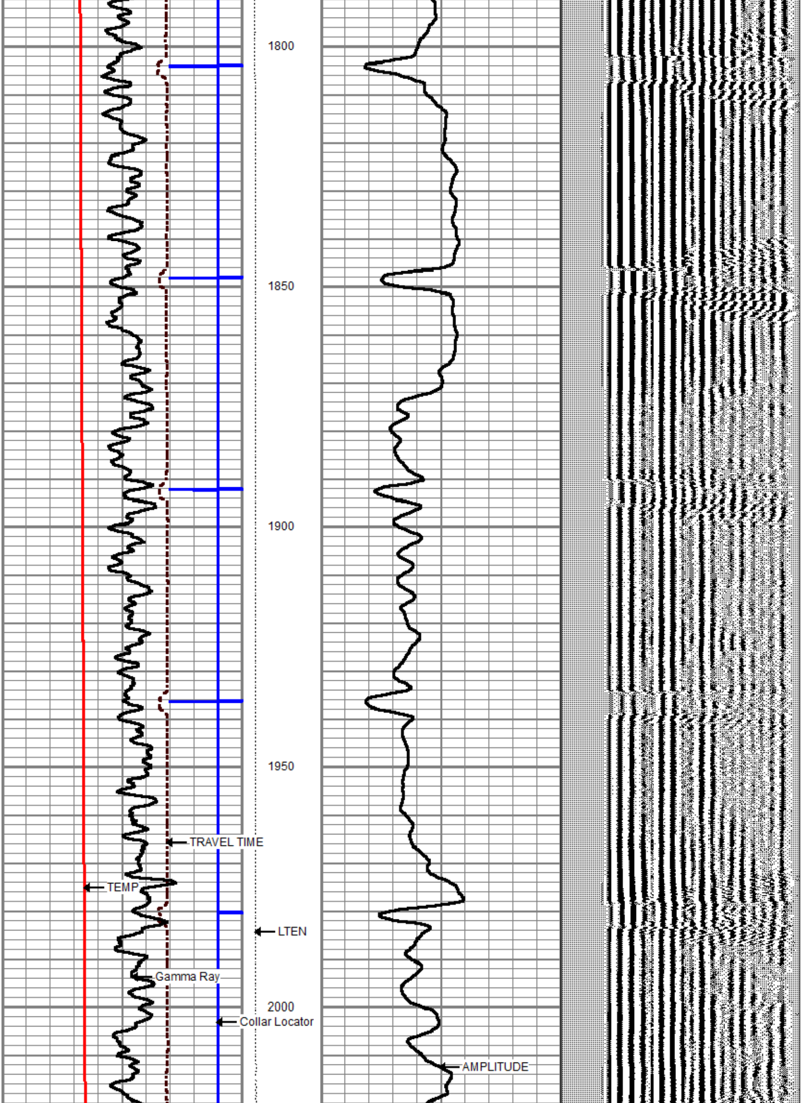


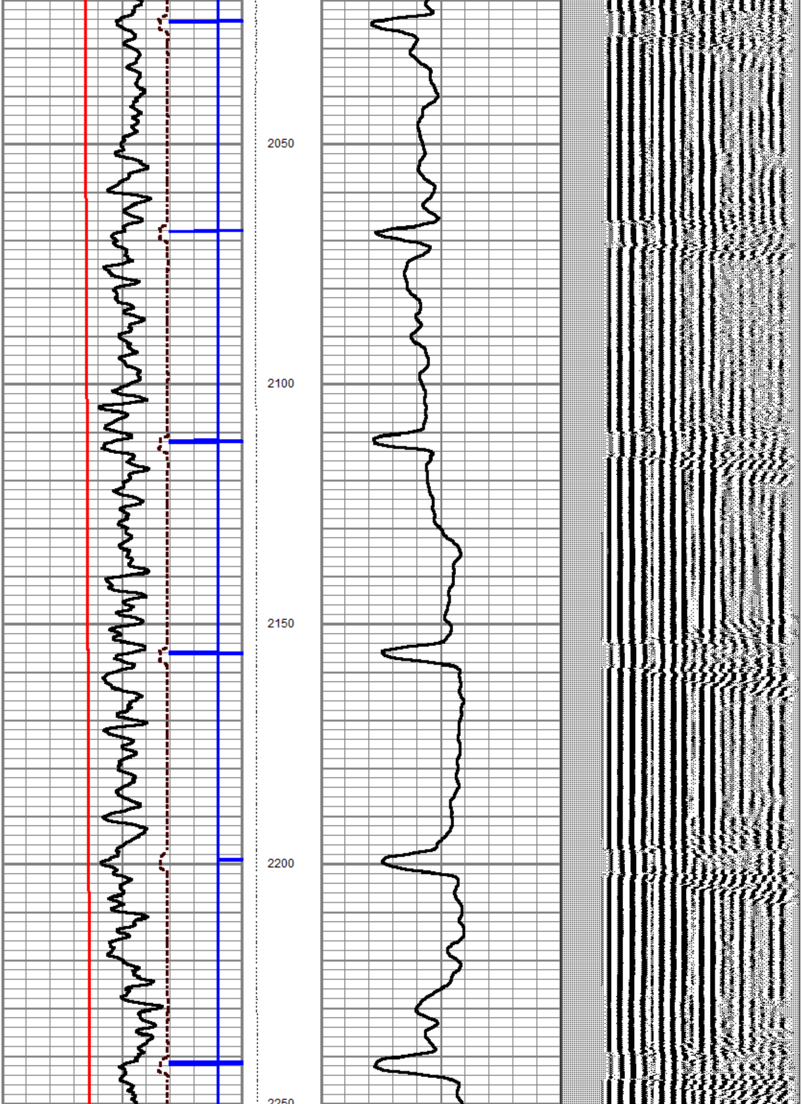


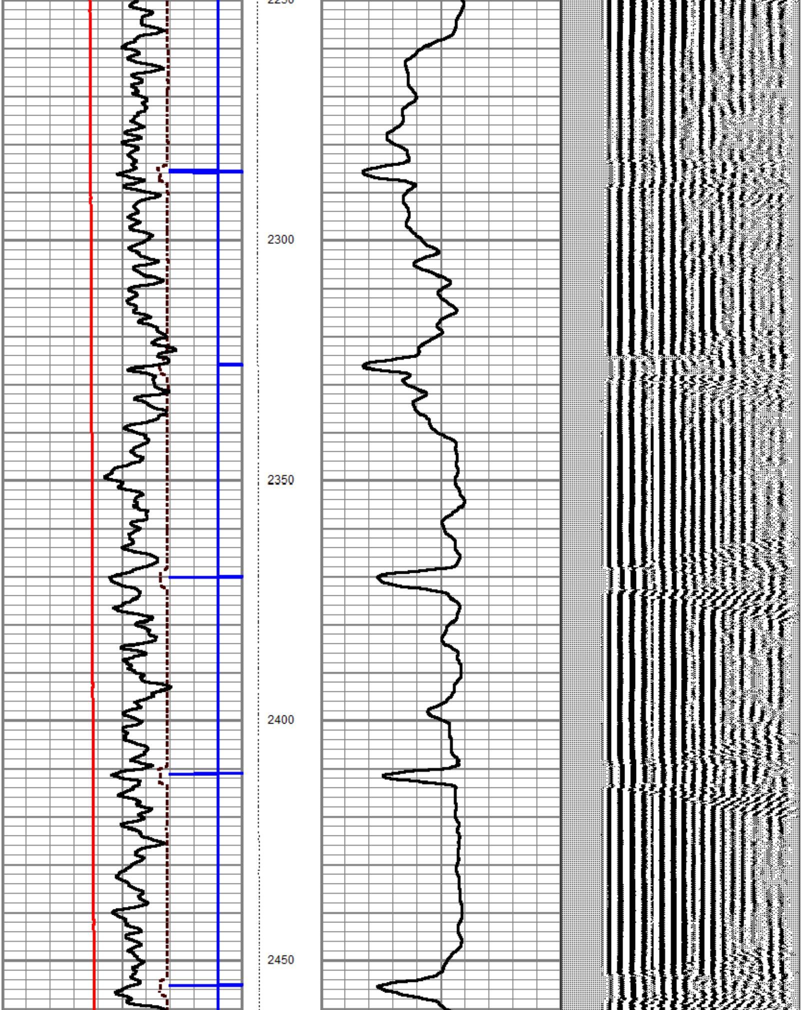


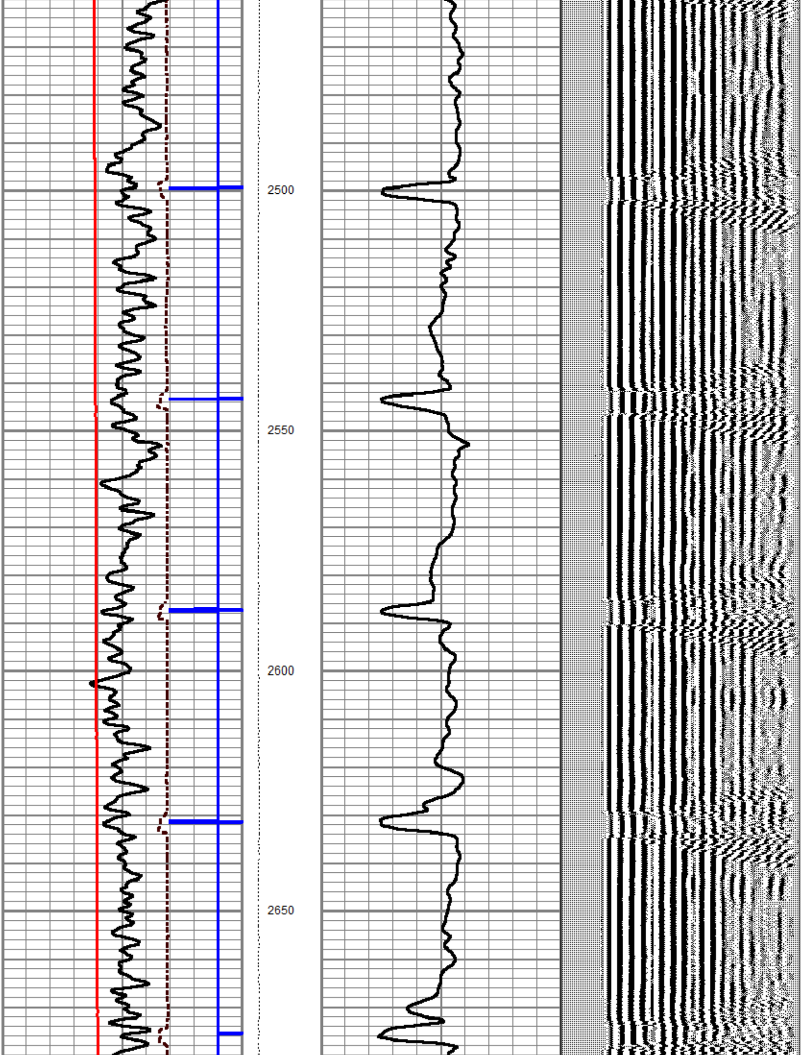


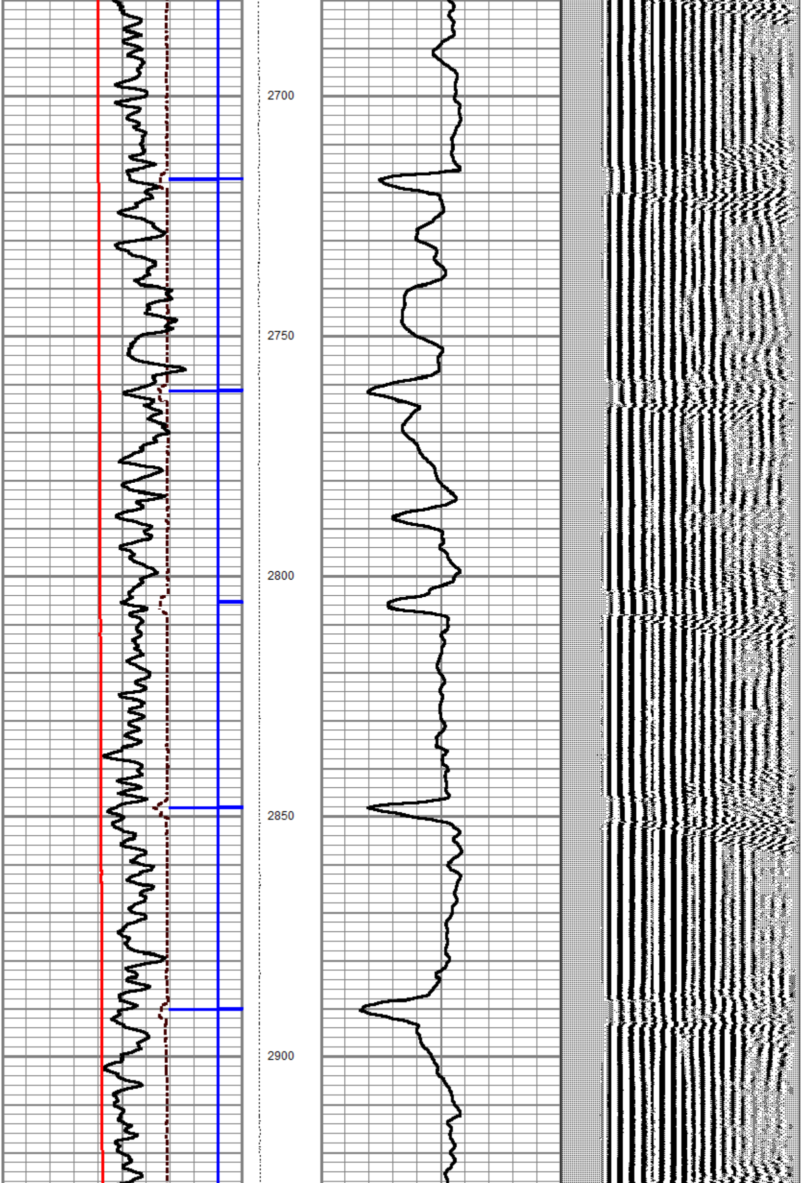


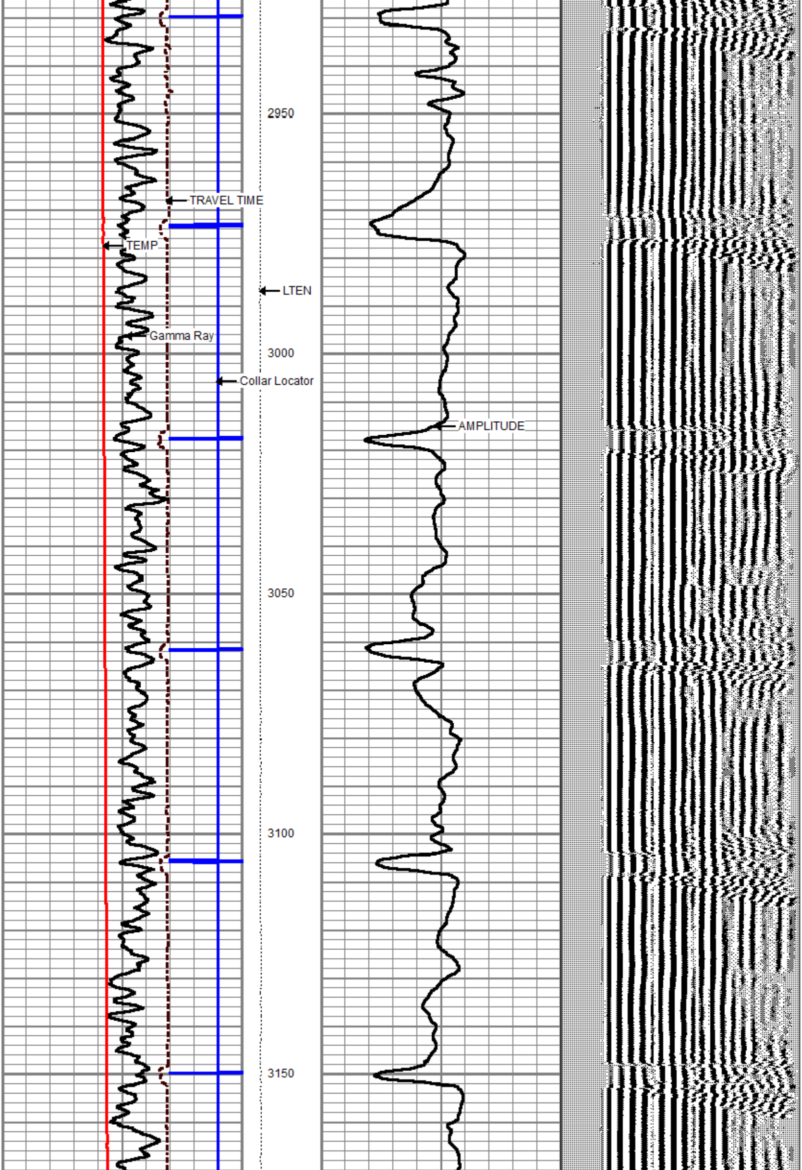


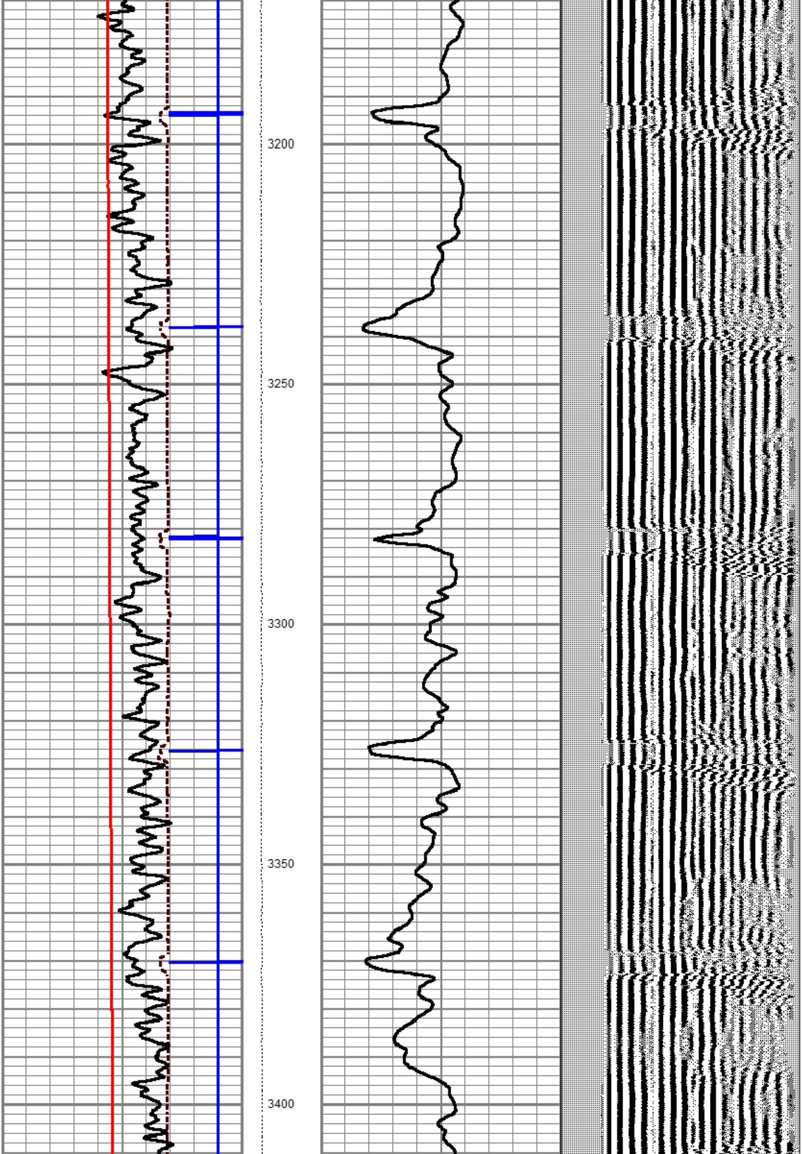


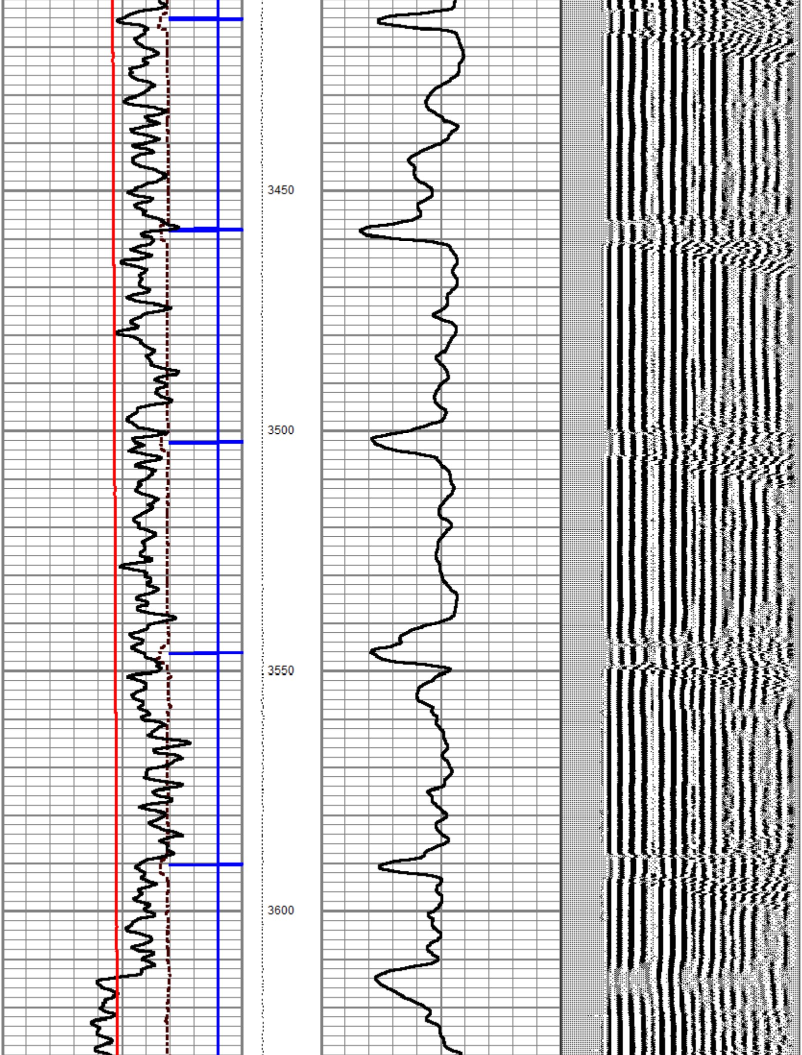


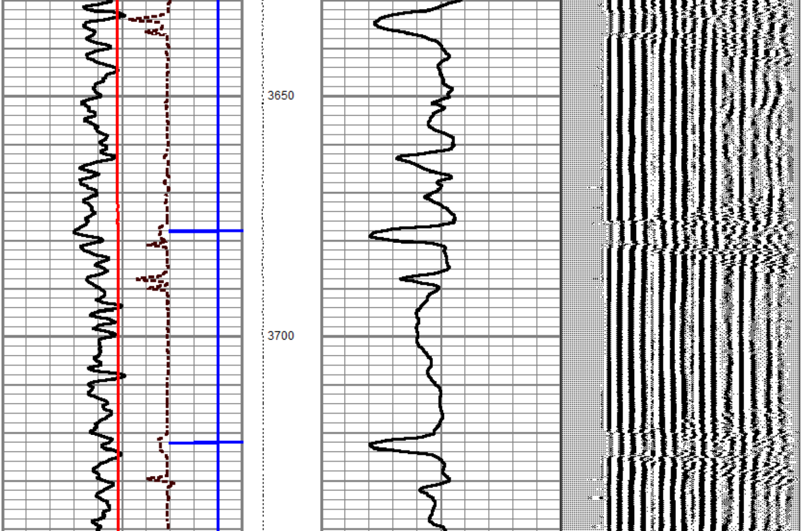












400 TRAVEL TIME (usec) 200 | LTEN | 0 AMP AMPLITUDE x 10 (mV) 10 | 200 VDL 1200

9 Collar Locator -1 | 0 (lb) 2000 | 0 AMPLITUDE (mV) 100

0 Gamma Ray 200

0 TEMP (degF) 300

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CEMENT BOND PRESENTATION

MAIN LOG SECTION / 0 PSI
5" = 100'

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CEMENT BOND PRESENTATION

REPEAT LOG SECTION / 0 PSI
5" = 100'

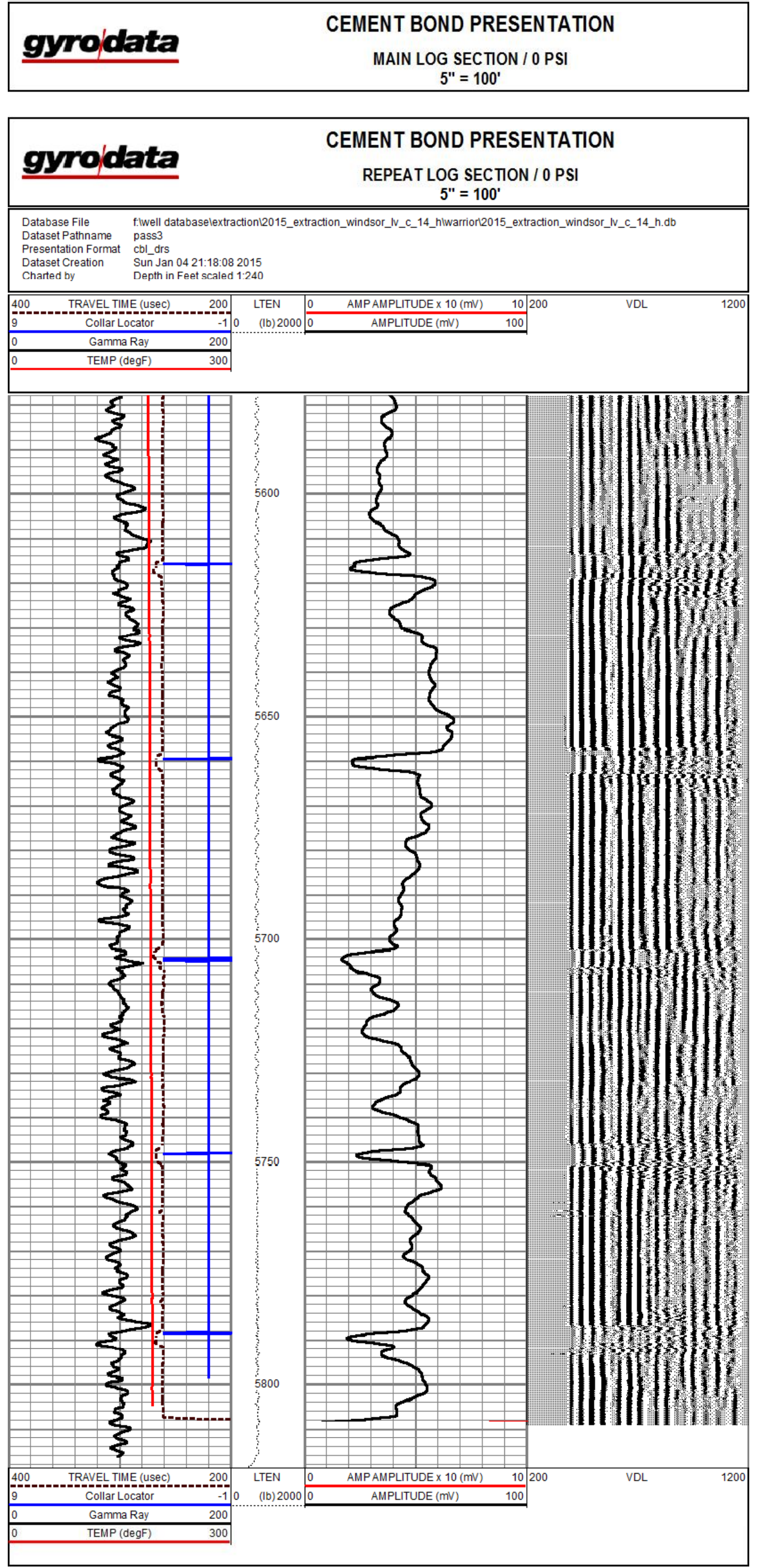
Database File	f:\well database\extraction\2015_extraction_windsor_lv_c_14_h\warrior\2015_extraction_windsor_lv_c_14_h.db
Dataset Pathname	pass3
Presentation Format	cbl_drs
Dataset Creation	Sun Jan 04 21:18:08 2015
Charted by	Depth in Feet scaled 1:240

400 TRAVEL TIME (usec) 200 | LTEN | 0 AMP AMPLITUDE x 10 (mV) 10 | 200 VDL 1200

9 Collar Locator -1 | 0 (lb) 2000 | 0 AMPLITUDE (mV) 100

0 Gamma Ray 200

0 TEMP (degF) 300



400 TRAVEL TIME (usec) 200 | LTEN | 0 AMP AMPLITUDE x 10 (mV) 10 | 200 VDL 1200

9 Collar Locator -1 | 0 (lb) 2000 | 0 AMPLITUDE (mV) 100

0 Gamma Ray 200

0 TEMP (degF) 300

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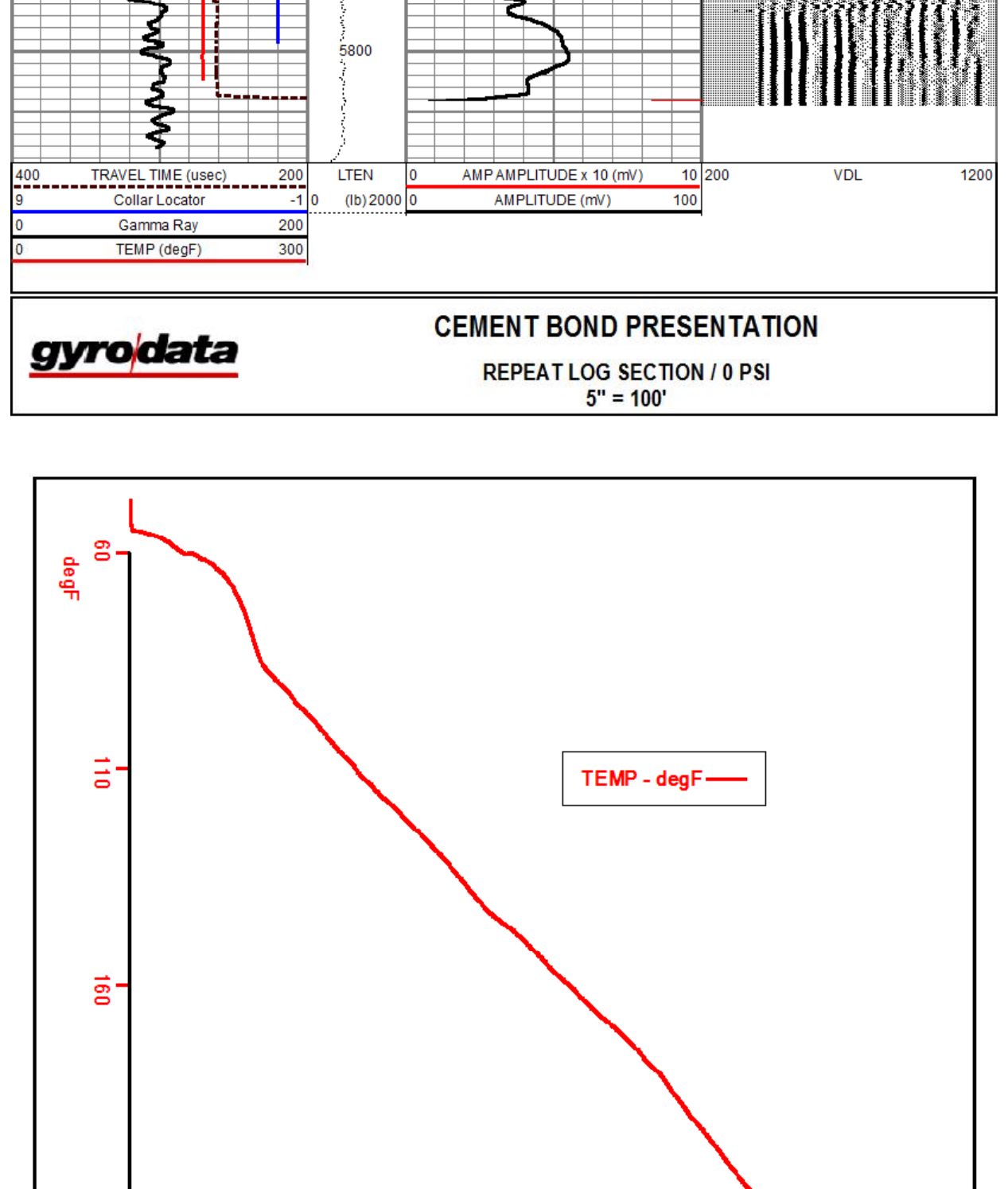
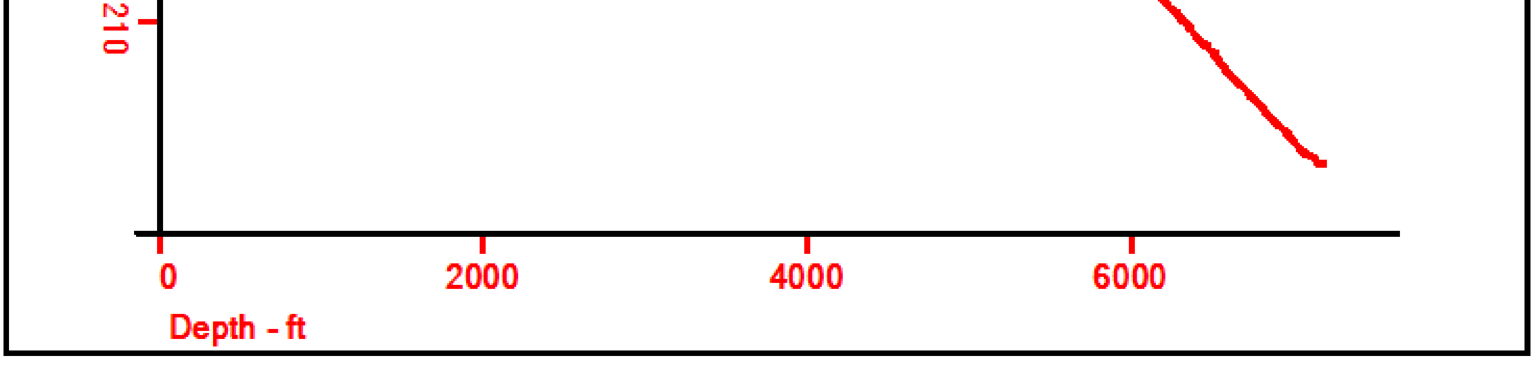
CEMENT BOND PRESENTATION

REPEAT LOG SECTION / 0 PSI
5" = 100'





Log Variables

DatabaseF:\Well Database\Extraction\2015_extraction_windsor_lv_c_14_h\WARRIOR\2015_extraction_windsor_lv_c_14
Dataset field/well/run1/pass1.1

Top - Bottom

BHTEMP_Src	PPT usec	CASEWGHT lb/ft	MAXAMPL mV	MINAMPL mV	MINATTN db/ft	SRFTEMP degF	CASEOD in	PERFS	TDEPTH ft
1	0	26	62	1	0.8	0	7	0	0

BOTTEMP degF	BOREID in
250	7.875

Calibration Report

Database File	F:\Well Database\Extraction\2015_extraction_windsor_lv_c_14_h\WARRIOR\2015_extraction_windsor_lv_c_14_h.db
Dataset Pathname	pass1.1
Dataset Creation	Sun Jan 04 23:45:57 2015

Gamma Ray Calibration Report

Serial Number:	234GR-IPCD9-02	
Tool Model:	GR-Tek-Co	
Performed:	Tue Feb 25 16:32:03 2014	
Calibrator Value:	120.0	
Background Reading:	100.8	cps
Calibrator Reading:	244.7	cps
Sensitivity:	0.8337	/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	234RIBT-IPPO2-02 FIELD	
Tool Model:	275 H/T RIB with I/E Temp	
Calibration Casing Diameter:	7.000	in
Calibration Depth:	629.283	ft

Master Calibration, performed Sun Jan 04 23:45:52 2015:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.006	0.364	1.000	62.165	165.041	2.023
CAL	0.000	0.305				
5'	-0.163	0.907	1.000	62.165	57.136	10.322
SUM						
S1	-0.005	0.430	0.000	100.000	229.935	1.119
S2	0.000	0.411	0.000	100.000	243.373	-0.006
S3	0.000	0.337	0.000	100.000	296.817	-0.006
S4	-0.025	0.396	0.000	100.000	237.588	5.831
S5	-0.128	0.374	0.000	100.000	199.171	25.413
S6	-0.053	0.366	0.000	100.000	238.582	12.565
S7	-0.129	0.446	0.000	100.000	173.731	22.494
S8	-0.029	0.366	0.000	100.000	253.360	7.295

Internal Reference Calibration, performed Thu Dec 25 20:11:00 2014:

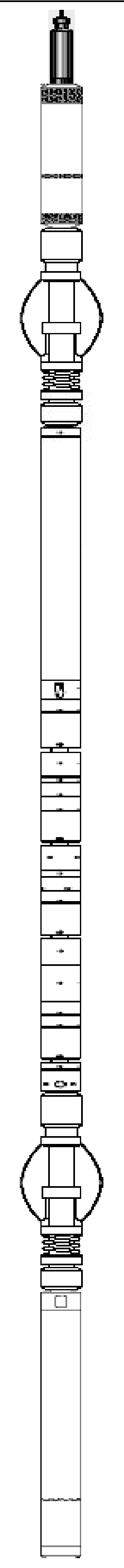
	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.000	0.305	1.000	0.000

Air Zero Calibration, performed Thu Dec 25 19:19:50 2014:

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

Temperature Calibration Report

Serial Number:	234RIBT-IPPO2-02 FIELD			
Tool Model:	275 H/T RIB with I/E Temp			
Performed:	Tue Nov 25 12:50:38 2014			
	Reference		Reading	
Low Reference:	0.00	degF	0.00	usec
High Reference:	1.00	degF	1.00	usec
Gain:	0.33			
Offset:	0.00			
Delta Spacing	1			

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			TitanConeType2 Cable Head 1 7/16 Cone Type II	1.03	1.44	3.60
CCL	19.56					
			CCL-275tekco (234CCL-IS2T1-08) 2 3/4" 450 Deg. "F" TekCo CCL Earth Mag	1.96	2.75	20.00
			2.75 2 3/4" Tekco Adjustable Centralizer	2.73	2.75	25.00
TEMP	12.77					
WVFS8	11.48					
WVFS7	11.48		275 H/T RIB with I/E Temp (234RIBT-IPPO2-029.13_D) Tekco 2.75" 450 Deg. F RIB with I/E Temp		2.75	102.00
WVFS6	11.48					
WVFS5	11.48					
WVFS4	11.48					
WVFS3	11.48					
WVFS2	11.48					
WVFS1	11.48					
WVF5FT	9.73					
WVFSYNC	6.40					
WVFTEMP	6.40					
WVFCAL	6.40					
			2.75 2 3/4" Tekco Adjustable Centralizer	2.73	2.75	25.00
			GR-GR-Tek-Co (234GR-IPCD9-02) Tekco 2 3/4" 400 Deg. F Logging Gamma Ray	3.67	2.75	40.00
GR	1.04					

Dataset:	2015_extraction_windsor_lv_c_14_h.db: field/well/run1/pass1.1
Total length:	21.25 ft
Total weight:	215.60 lb
O.D.:	2.75 in

gyrodata

Company	EXTRACTION OIL & GAS		
Well	WINDSOR LV C-14H		
Field	WATTENBERG		
County	WELD		
State	CO	Country	USA