RCBL
GAMMA RAY / CCL

Company	HIGHPOINT RESOURCES
Well	ANSCHUTZ COFFELT 5-61-35-3225B
Field	WATTENBURG
County	WELD
State	CO

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Field	WATTENBURG		
County	WELD	State	CO

Location: API # : 05-123-49129

SWNW
1620' FNL & 320' FWL
SEC 35 TWP 5N RGE 61W

Other Services
NONE

Permanent Datum	GROUND LEVEL	Elevation	4491'
Log Measured From	KB 16.5'		
Drilling Measured From	KELLY BUSHING		

Elevation
K.B. 4508'
D.F. --
G.L. 4491'

Date	07-20-2019		
Run Number	ONE		
Depth Driller	15778'		
Depth Logger	NA		
Bottom Logged Interval	5960'		
Top Log Interval	SURFACE		
Open Hole Size	6.125"		
Type Fluid	H2O		
Density / Viscosity	8.3 / H2O		
Max. Recorded Temp.	NR		
Estimated Cement Top	SEE LOG		
Time Well Ready	0800		
Time Logger on Bottom	0830		
Equipment Number	216		
Location	GREELEY, CO		
Recorded By	S. STUMP		
Witnessed By	ANDREW PEETOOM		

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#	SURFACE	977'
Prot. String	7"	23#	SURFACE	6271'
Production String				
Liner	4.5"	11.6#	SURFACE	15773'

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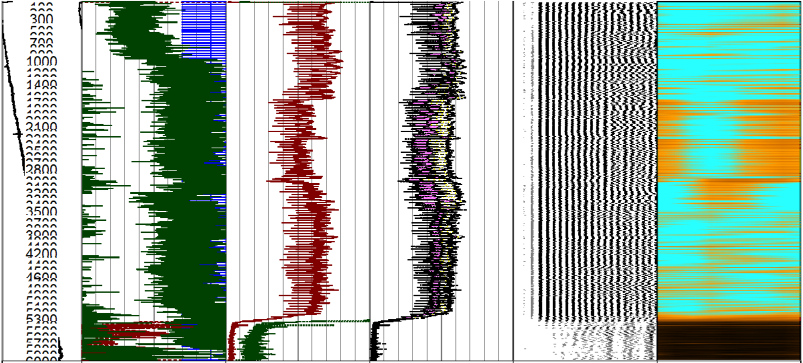
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

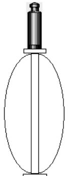
INFORMATION PROVIDED BY COMPANY
REPRESENTATIVE

Database File	90119.db
Dataset Pathname	1INCH
Presentation Format	rbl
Dataset Creation	Sat Jul 20 09:47:49 2019
Charted by	Depth in Feet scaled 1:20000

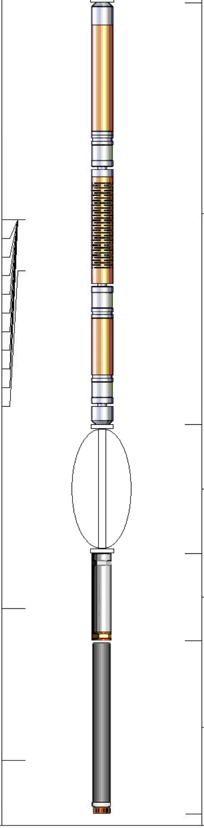
LTEN	Travel Time	Amplitude	Amplitude AVG	Variable Density	1 Sector Map 8
(lb)	370 (usec) 270	0 (mV) 100	0 150	200 (usec) 1200	
0 1000	Casing Collar Locator	Amplified Amplitude	Amplitude MAX		
	-9 1.05	0 (mV) 20	0 150		
	Gamma Ray		0 Amplitude MIN150		
	0 (GAPI) 100				



LTEN	Travel Time	Amplitude	Amplitude AVG	Variable Density	1 Sector Map 8
(lb)	370 (usec) 270	0 (mV) 100	0 150	200 (usec) 1200	
0 1000	Casing Collar Locator	Amplified Amplitude	Amplitude MAX		
	-9 1.05	0 (mV) 20	0 150		
	Gamma Ray		0 Amplitude MIN150		
	0 (GAPI) 100				

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			CHD-STNDRD Standard Cable Head	1.00	1.44	1.00
			CENT-tekco	2.73	2.75	50.00

WVFS8	12.56
WVFS7	12.56
WVFS6	12.56
WVFS5	12.56
WVFS4	12.56
WVFS3	12.56
WVFS2	12.56
WVFS1	12.56
WVFCAL	12.56
WVF3FT	12.56
WVF5FT	11.48
CCL	4.33
GR	1.13



RBT-Probe (DD1) Probe Radii Bond Tool with Digital Telemetry	8.92	2.75	90.00
CENT-tekco	2.73	2.75	50.00
CCL-tecko (D2) 3.125 logging ccl	1.83	3.13	20.00
GR-probe 2.75 (DA1)	3.67	2.75	100.00

Dataset:	90119.db: field/well/run1/MAIN
Total length:	20.88 ft
Total weight:	311.00 lb
O.D.:	3.13 in

Calibration Report

Database File	90119.db
Dataset Pathname	MAIN
Dataset Creation	Sat Jul 20 09:42:10 2019

Gamma Ray Calibration Report

Serial Number: DA1
Tool Model: probe 2.75
Performed: Tue Dec 15 12:23:42 2015

Calibrator Value: 200.0 GAPI

Background Reading: 39.6 cps
Calibrator Reading: 259.2 cps

Sensitivity: 0.9108 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: DD1
Tool Model: Probe

Calibration Casing Diameter: 4.500 in
Calibration Depth: 1257.583 ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.001	0.640	1.500	81.196	124.630	1.384
CAL	0.007	1.000				
5'	0.004	0.599	1.500	81.196	133.946	0.918
SUM						
S1	0.003	0.961	0.000	100.000	104.458	-0.358
S2	0.001	0.904	0.000	100.000	110.724	-0.072
S3	-0.004	0.877	0.000	100.000	113.517	0.448
S4	-0.006	0.933	0.000	100.000	106.497	0.656
S5	-0.001	0.887	0.000	100.000	112.596	0.158
S6	-0.007	0.882	0.000	100.000	112.425	0.821
S7	-0.011	0.874	0.000	100.000	112.994	1.229
S8	0.012	0.955	0.000	100.000	106.110	-1.319

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.007	1.000	1.000	0.000

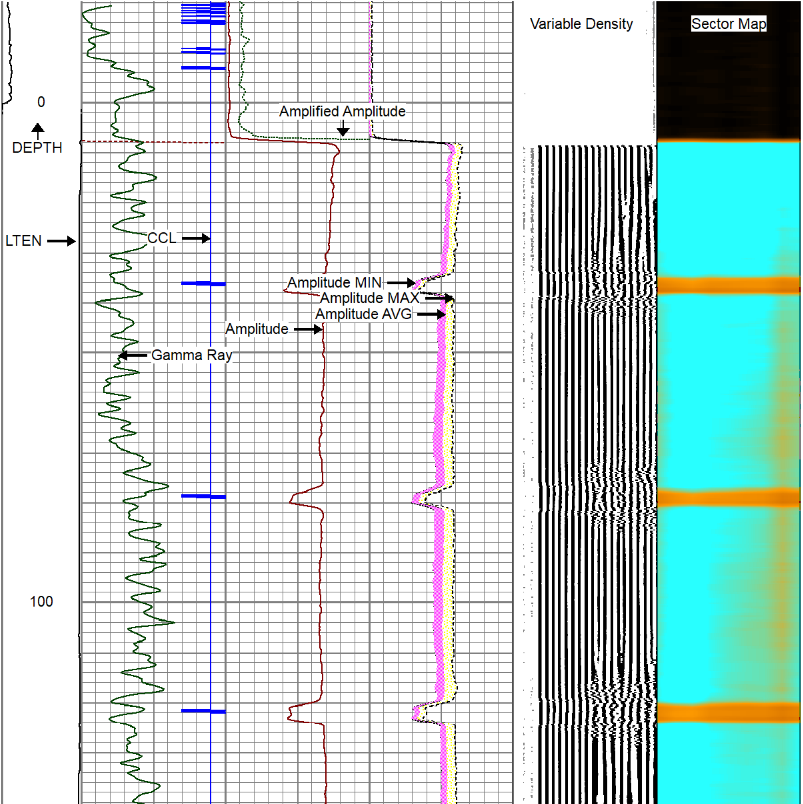
Air Zero Calibration, performed Fri Jul 19 07:02:28 2019:

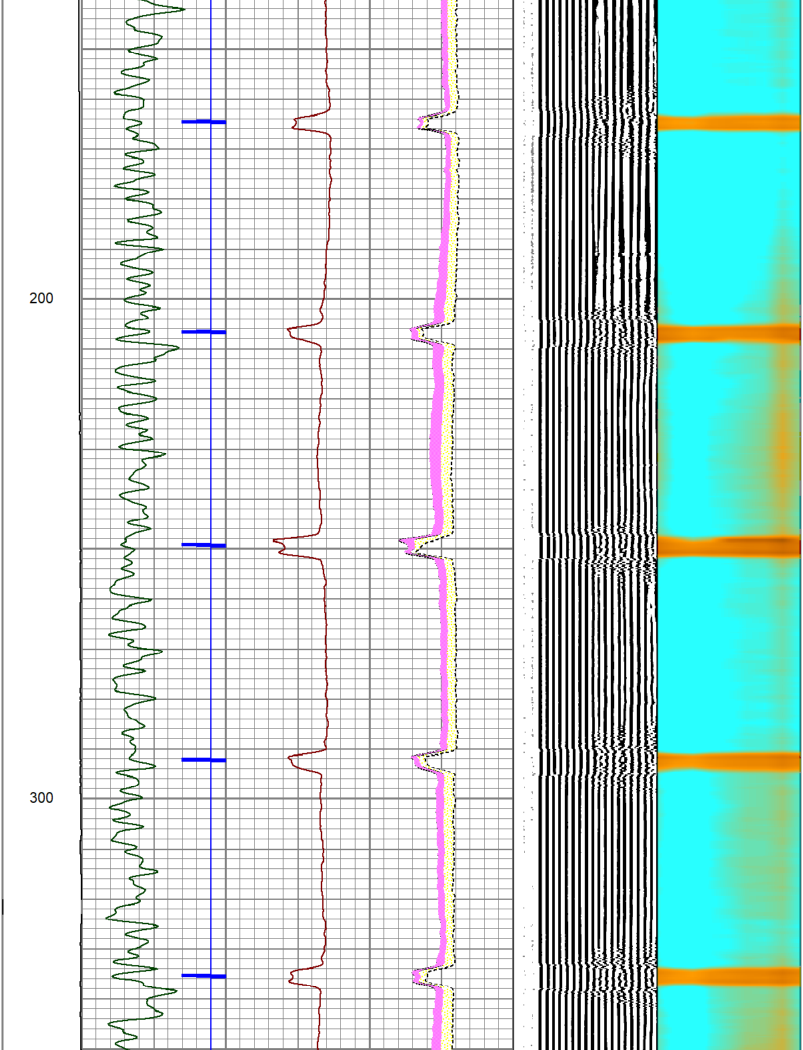
	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.000	0.000	0.000
5'	0.000	0.000	0.000
SUM			
S1	0.000	0.000	0.000
S2	0.000	0.000	0.000
S3	0.000	0.000	0.000
S4	0.000	0.000	0.000
S5	0.000	0.000	0.000
S6	0.000	0.000	0.000
S7	0.000	0.000	0.000
S8	0.000	0.000	0.000

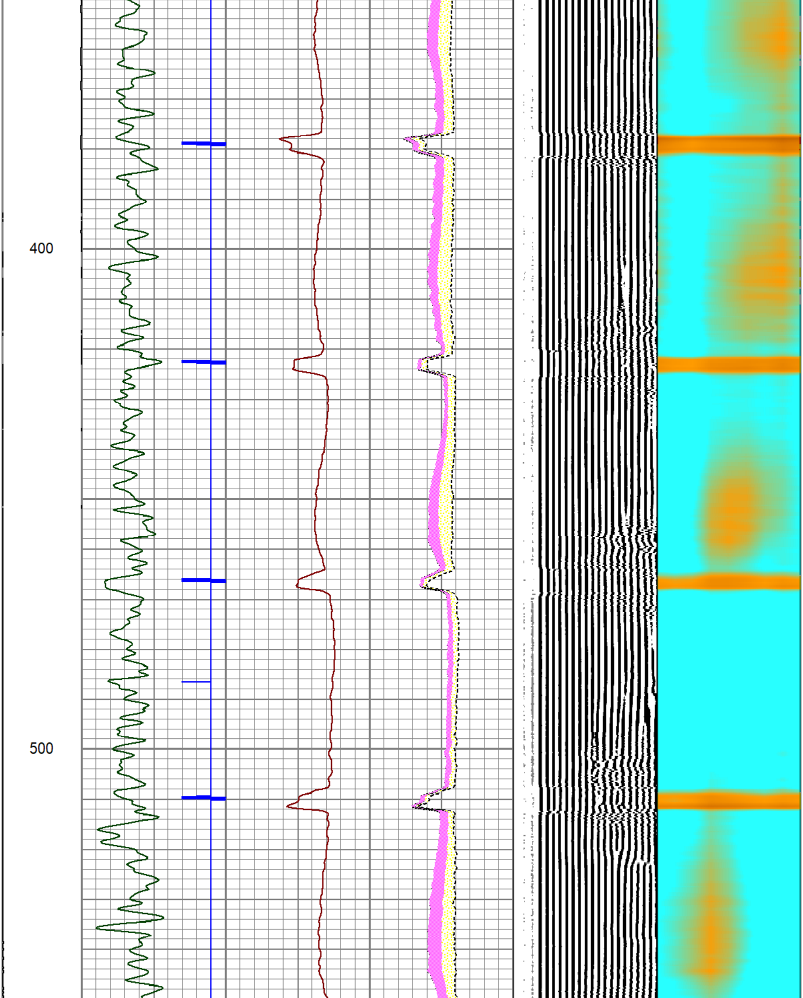
MAIN PASS 0 PSI

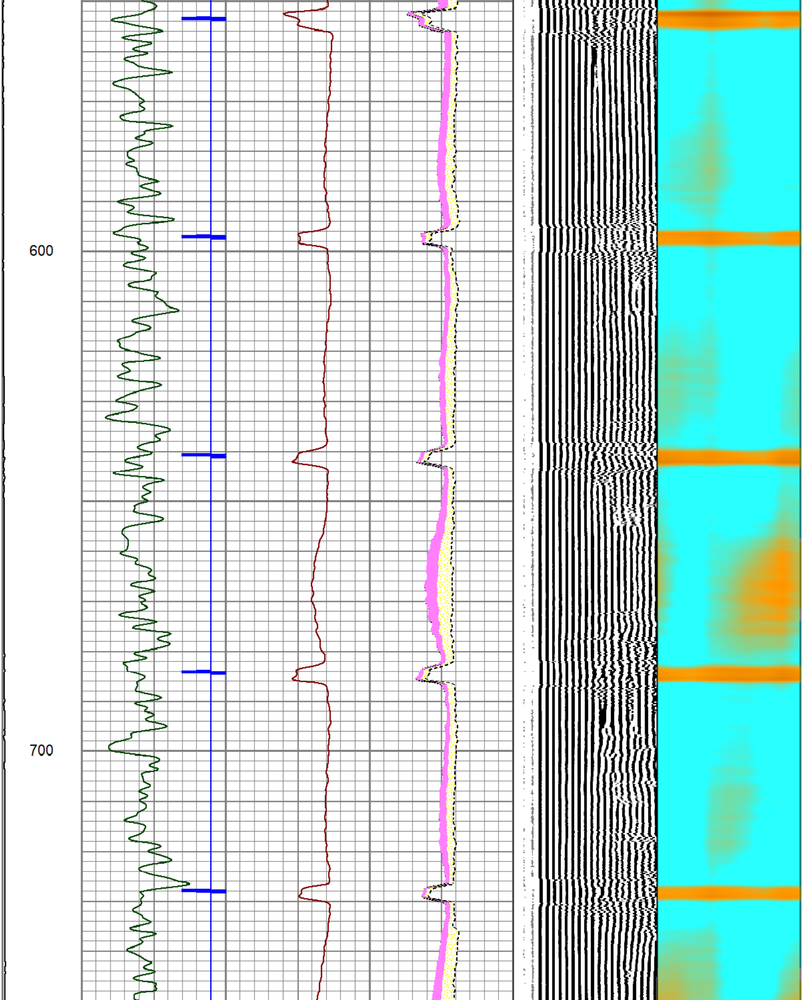
Database File	90119.db
Dataset Pathname	MAIN
Presentation Format	rbl
Dataset Creation	Sat Jul 20 09:42:10 2019
Charted by	Depth in Feet scaled 1:240

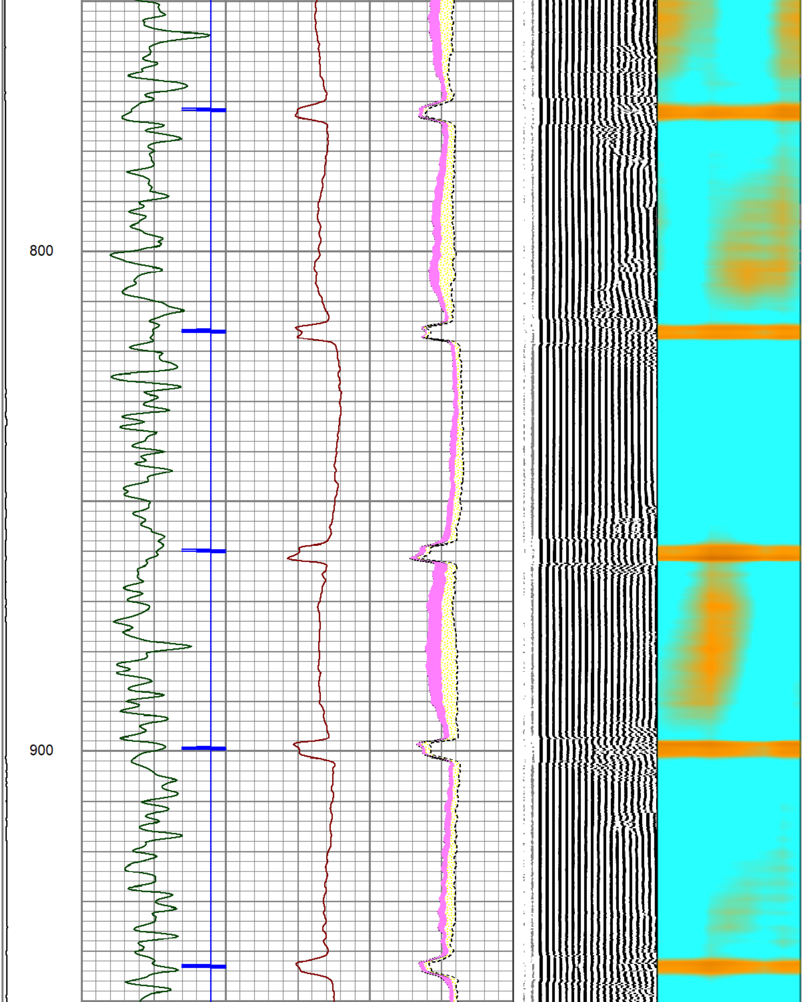
LTEN	Travel Time	Amplitude	Amplitude AVG	Variable Density	Sector Map
(lb) 0 1000	370 (usec) 270	0 (mV) 100	0 150	200 (usec) 1200	1 8
	Casing Collar Locator -9 1.05	Amplified Amplitude 0 (mV) 20	Amplitude MAX 0 150		
	Gamma Ray 0 (GAPI) 100		0 Amplitude MIN150		

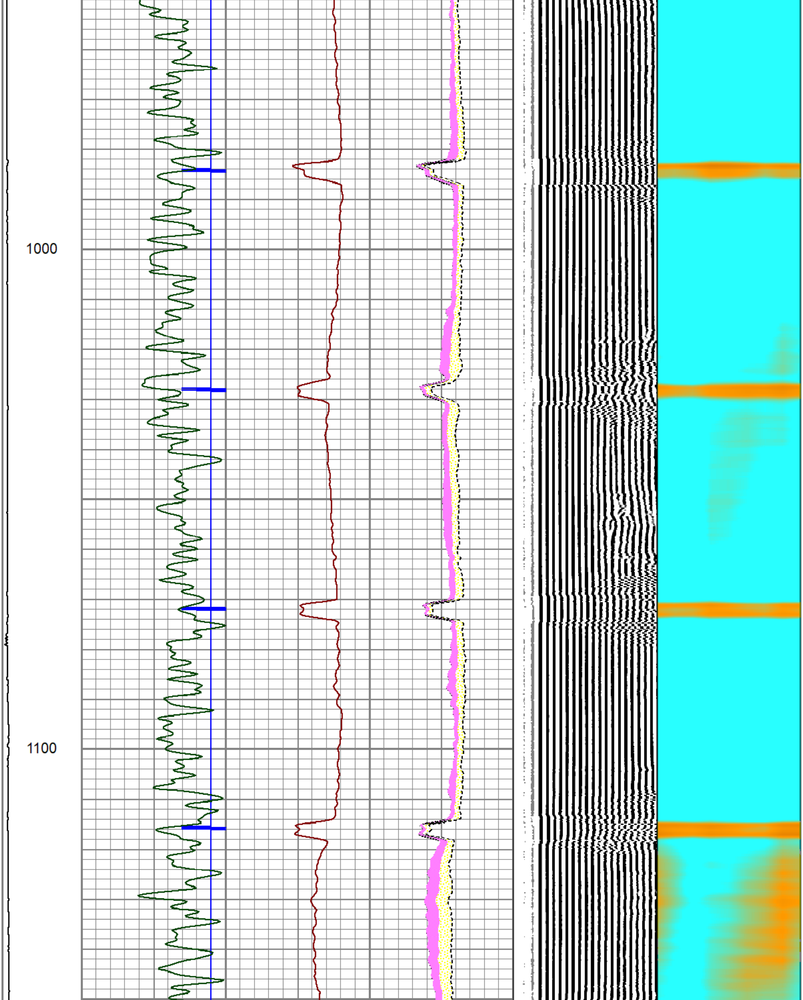


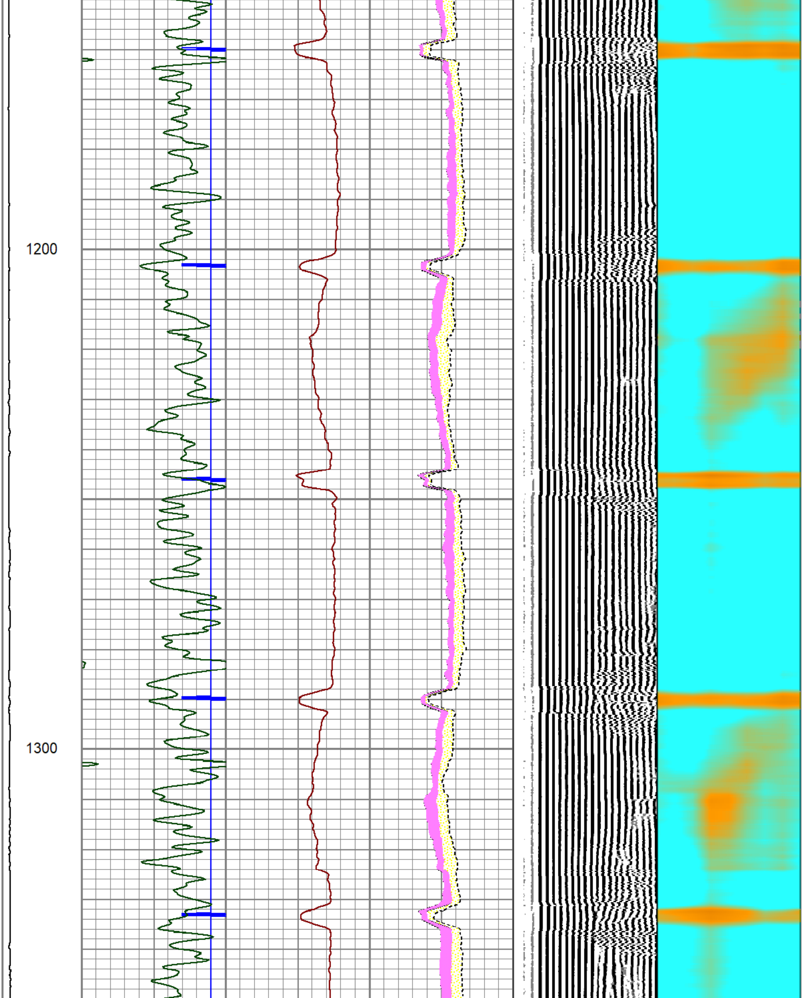


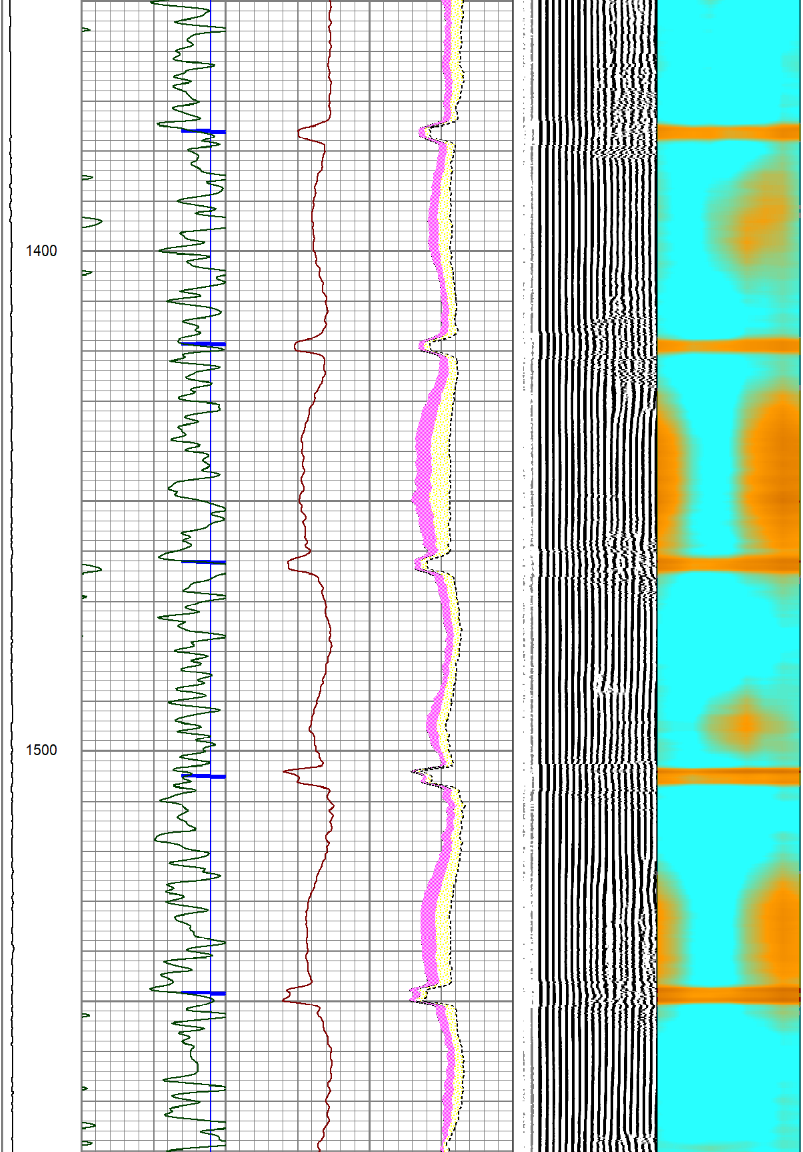


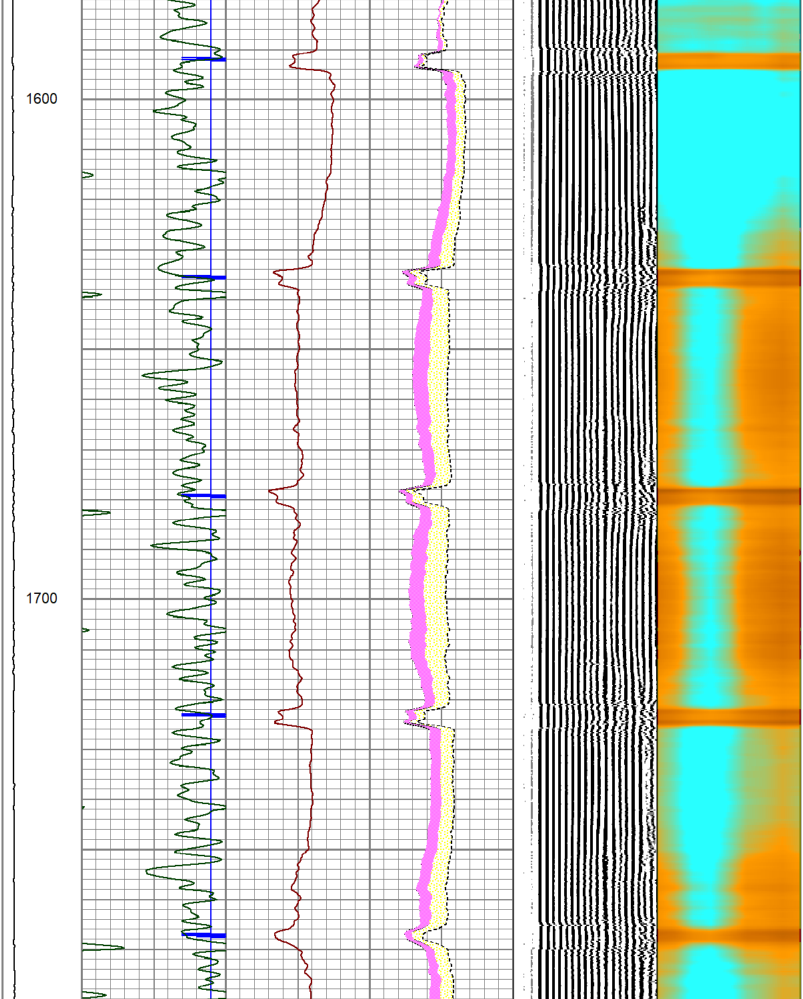


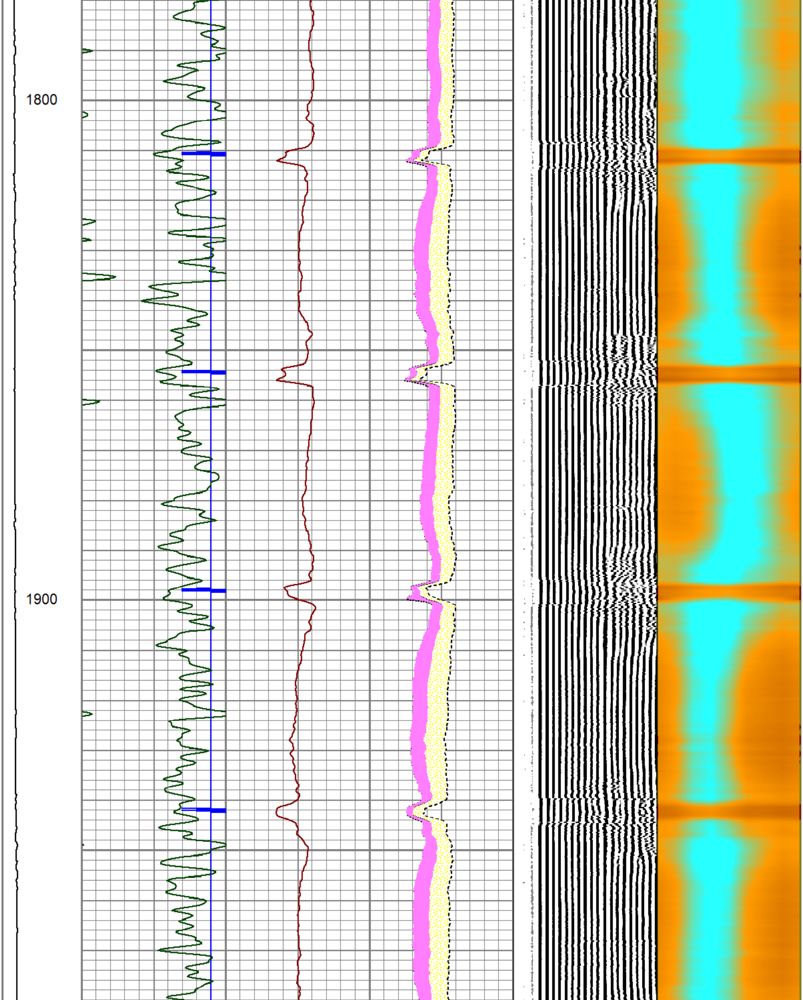


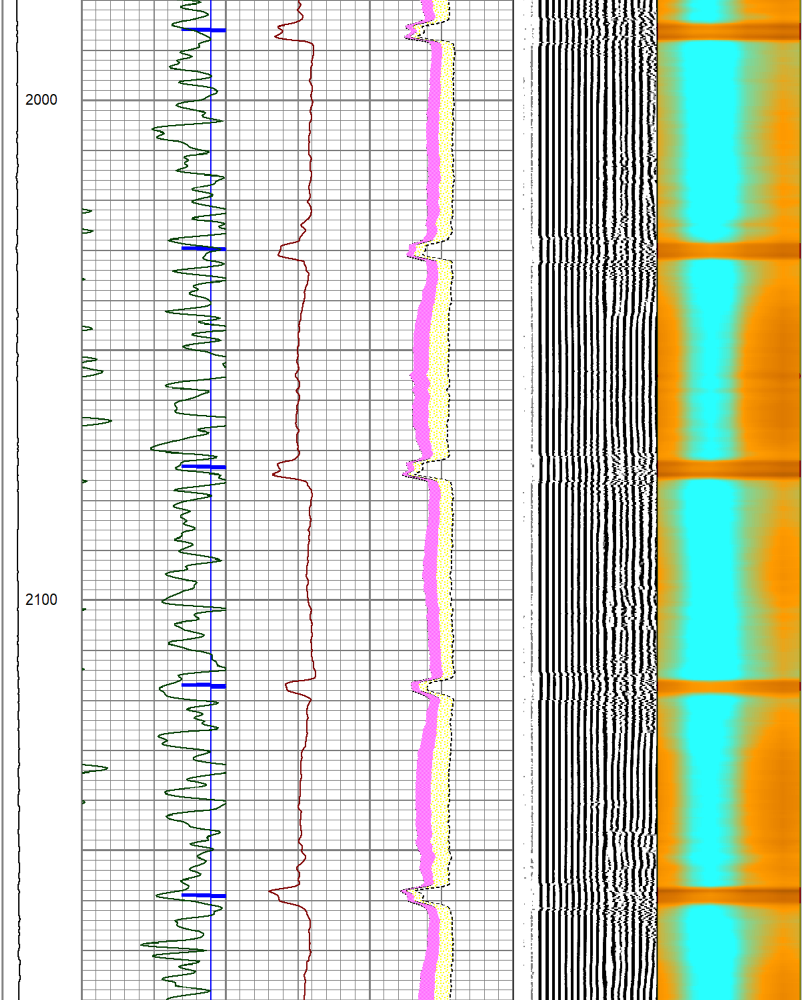


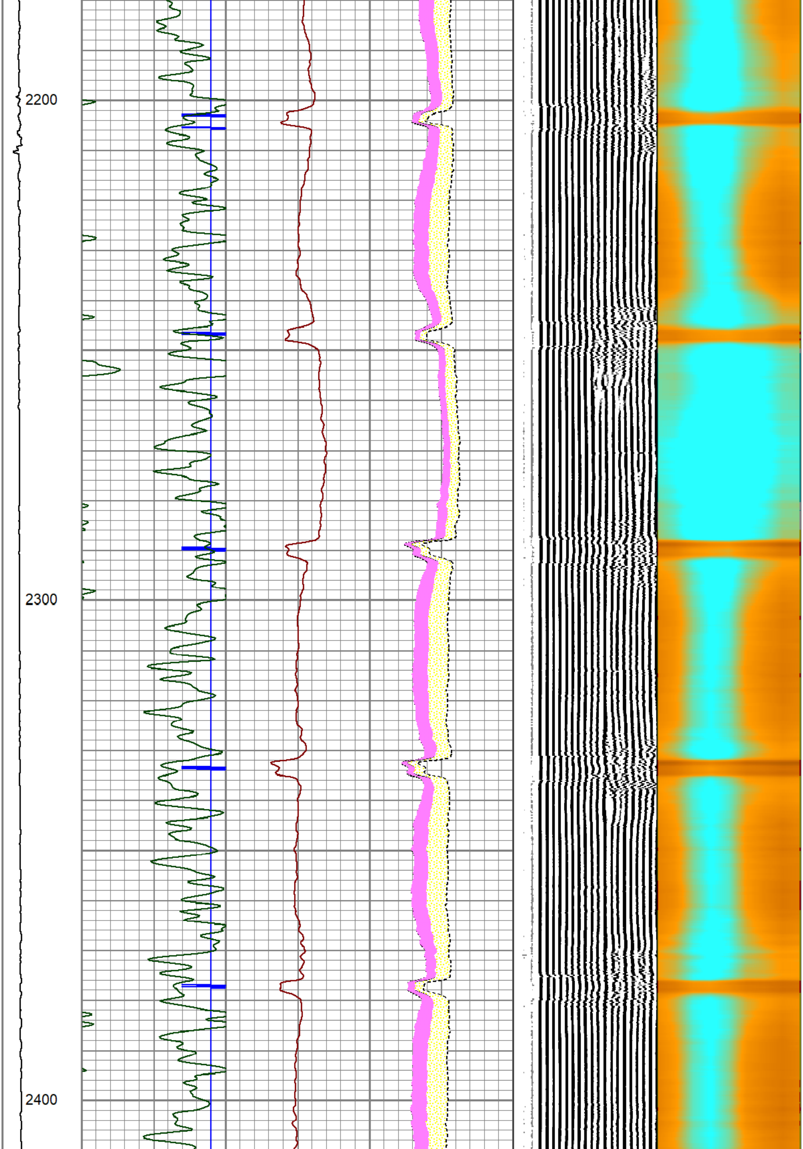


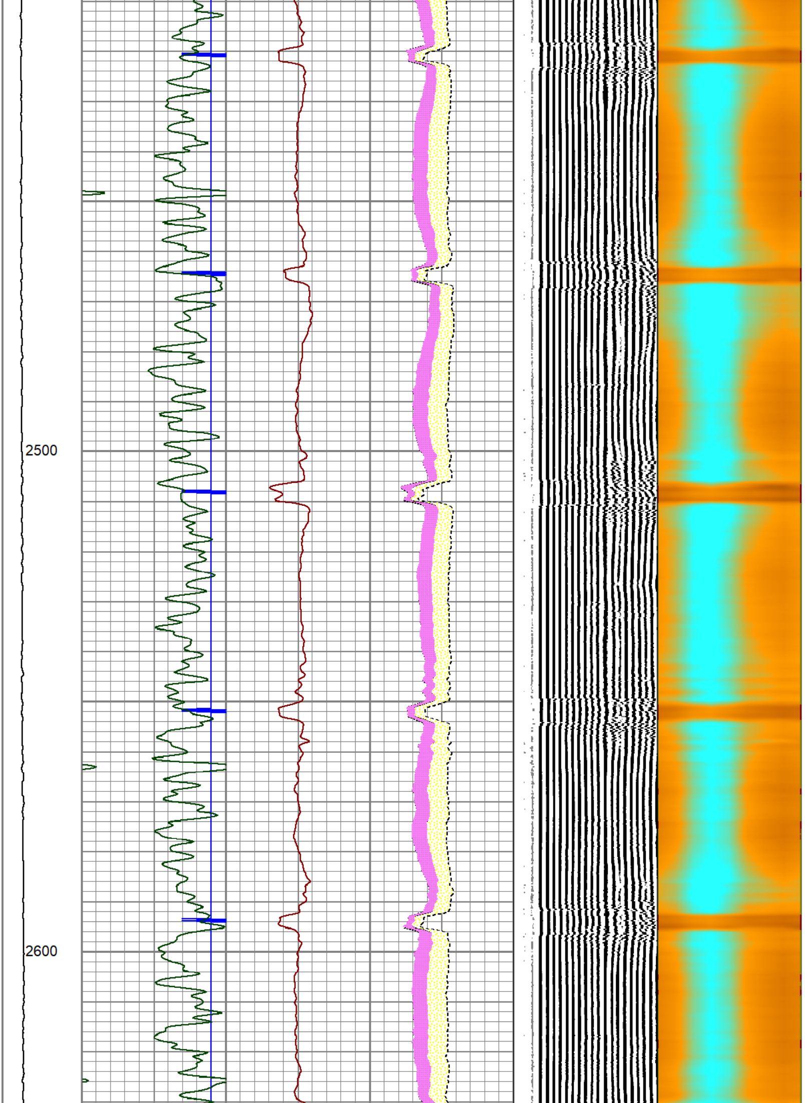


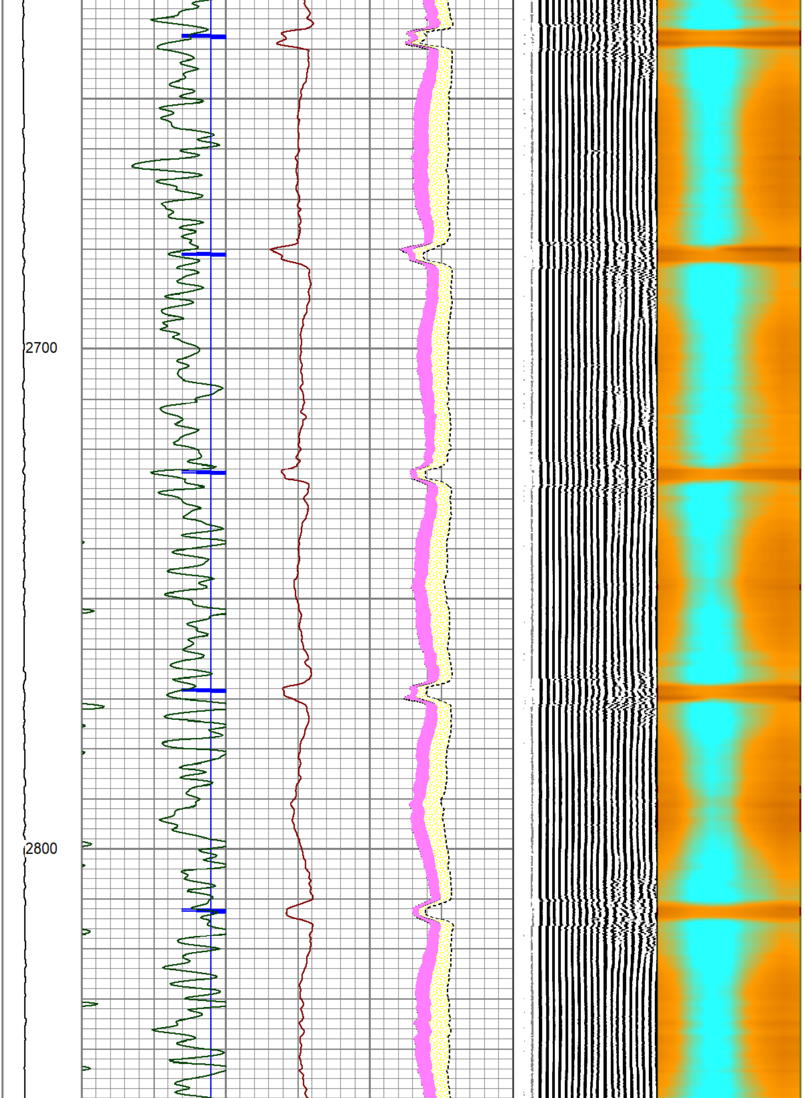


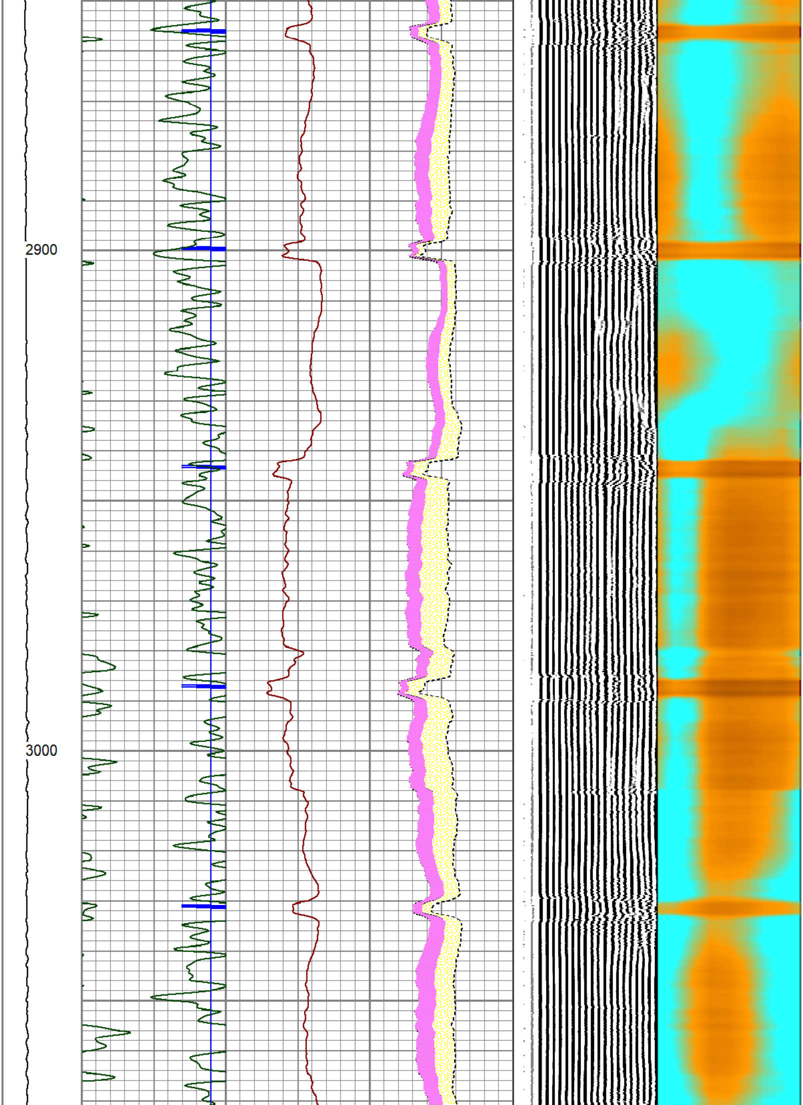












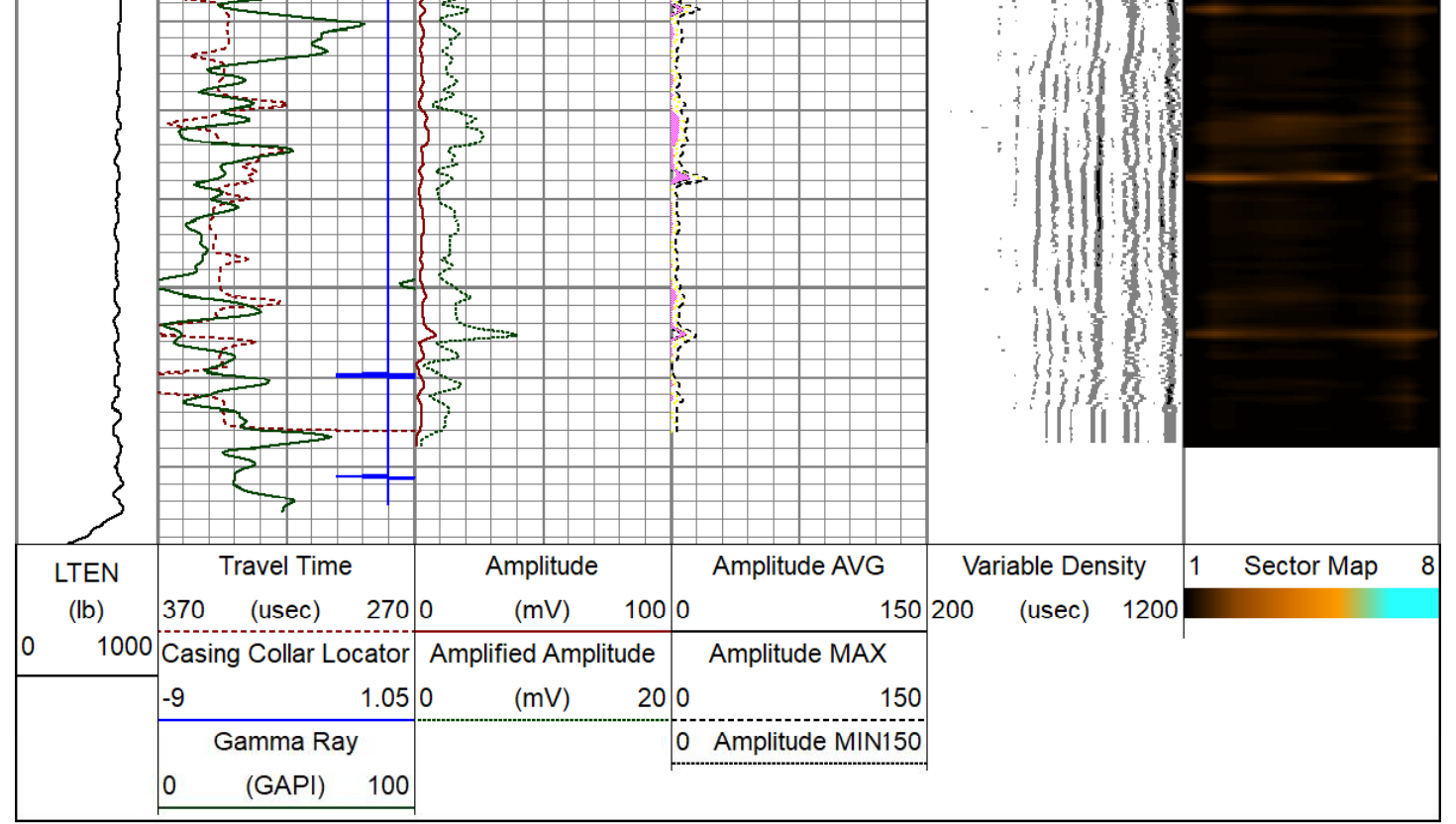
LTEN (lb)	Travel Time	Amplitude	Amplitude AVG	Variable Density	Sector Map
0 1000	370 (usec) 270	0 (mV) 100	0 150	200 (usec) 1200	1 8
	Casing Collar Locator	Amplified Amplitude	Amplitude MAX		
	-9 1.05	0 (mV) 20	0 150		
	Gamma Ray		Amplitude MIN		
	0 (GAPI) 100		0 150		

MAIN PASS 0 PSI

REPEAT PASS 0 PSI

Database File 90119.db
Dataset Pathname pass4
Presentation Format rbl
Dataset Creation Sat Jul 20 08:33:45 2019
Charted by Depth in Feet scaled 1:240

LTEN (lb)	Travel Time	Amplitude	Amplitude AVG	Variable Density	Sector Map
0 1000	370 (usec) 270	0 (mV) 100	0 150	200 (usec) 1200	1 8
	Casing Collar Locator	Amplified Amplitude	Amplitude MAX		
	-9 1.05	0 (mV) 20	0 150		
	Gamma Ray		Amplitude MIN		
	0 (GAPI) 100		0 150		



LTEN (lb)	Travel Time	Amplitude	Amplitude AVG	Variable Density	Sector Map
0 1000	370 (usec) 270	0 (mV) 100	0 150	200 (usec) 1200	1 8
	Casing Collar Locator	Amplified Amplitude	Amplitude MAX		
	-9 1.05	0 (mV) 20	0 150		
	Gamma Ray		Amplitude MIN		
	0 (GAPI) 100		0 150		

REPEAT PASS 0 PSI