gyrodata

CEMENT BOND LOG

Company	Extraction Oil and Gas Inc.
Well	Trott 8E-10-9N
Field	Wattenberg
County	Weld
State	CO.

Company Extraction Oil and Gas Inc.
Well Trott 8E-10-9N
Field Wattenberg
County Weld **State** CO.

API # : 05-123-45723-00
Location: 1552' FSL & 1182' FEL
Lat:40.324434
Long:-105.041137

SEC: 7 TWP: 4N RGE: 68W

Other Services

Elevation
K.B. 5060'
D.F. ----
G.L. 5035'

Permanent Datum: Ground Level Elevation: 5035'
Log Measured From: K.B. , 25' ft. above Permanent Datum.
Drilling Measured From: K.B.

Date	26, January 2018		
Run Number	one		
Plug Back T.D. Driller	----		
Plug Back T.D. Logger	----		
Bottom Logged Interval	5577'		
Top Log Interval	surface		
Type Fluid	----		
Density / Viscosity	----		
Max. Recorded Temp.	190°F		
Time Logger on Bottom	08:30		
Equipment Number	GD114		
Location	Casper Wy.		
Recorded By	T. Staker		
Witnessed By	S. Hackford		

Casing Record				Tubing Record			
Size	Weight	From	To	Size	Weight	From	To
9-5/8"	36#	Surface	1500'				
5-1/2"	20#	Surface	12,465'				

<<< Fold Here >>>

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.

Ticket # : RM0118PCBW202
Your Crew Today: Velasquez, Staker, Baker
Log Correlated to: Surface

Cement Data

Date Cemented	-----
Primary / Squeeze	Primary
Type / Weight	-----
Main Pass Press.	0 psi
Repeat Pass Press.	0 psi

Bond Index

Index %	Est Top Depth
20 % Bond	86'
40 % Bond	86'
60 % Bond	1046'
80 % Bond	1497'
100 % Bond	2684'

Comments

Estimated Top of Cement
(20% Bond index) @ 86'

Thank you for using Gyrodata

Eric Regnier: Rocky Mountain Wireline Manager EricR@Gyrodata.com

Log Variables

Databased:\warrior\data\2018_01_26_extraction_trott_8e_10_9n_cbl\2018_01_26_extraction_trott_
Dataset field/well/run1/MAINPASS/_vars_

Top - Bottom

BHTEMP_Src	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	CASEWGHT lb/ft	MAXAMPL mV	MaxAPIID in
TEMP	8.5	190	5.5	0.361	20	71.9	4.923

MaxAPIWall in	MINAMPL mV	MinAPIID in	MINATTN db/ft	PPT usec
0.361	1.9	4.751	0	241

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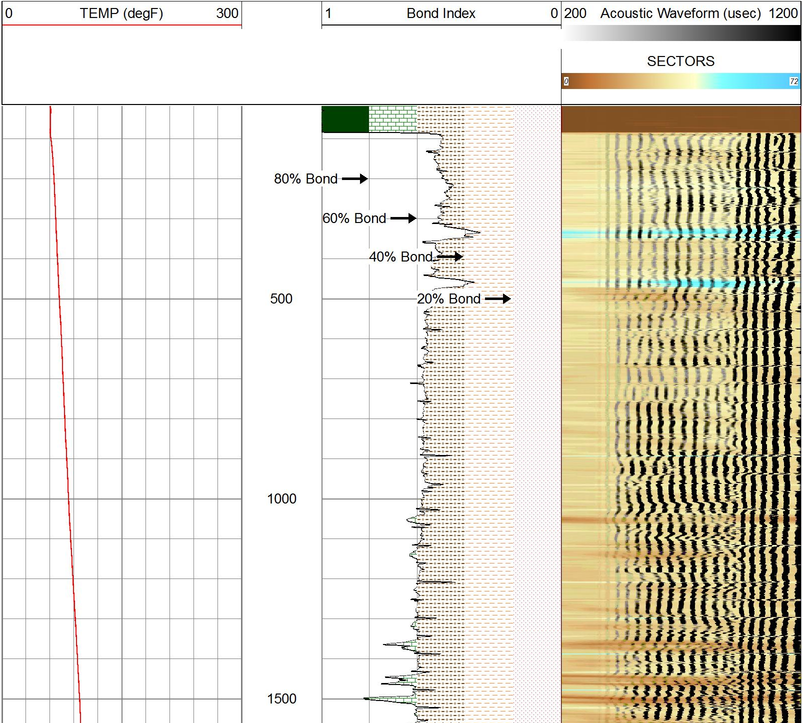
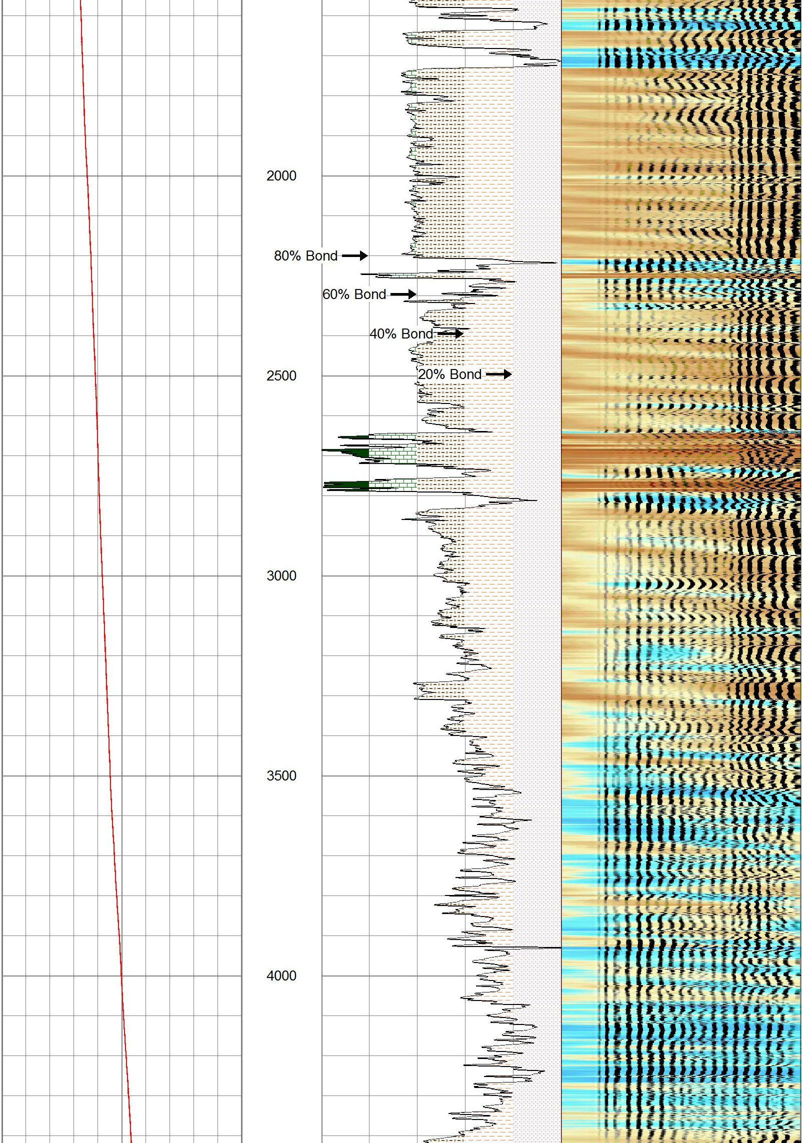
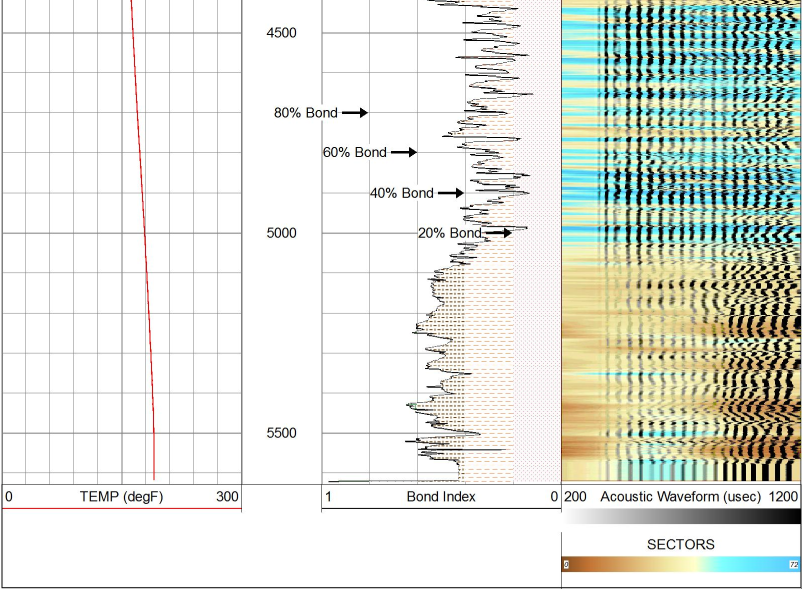
BOND INDEX

Database File	2018_01_26_extraction_trott_8e_10_9n_cbl\2018_01_26_extraction_trott_8e_10_9n_cbl.db
Dataset Pathname	BOND
Presentation Format	bndindx_msg-sec
Dataset Creation	Fri Jan 26 09:25:57 2018
Charted by	Depth in Feet scaled 1:3000







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BOND INDEX

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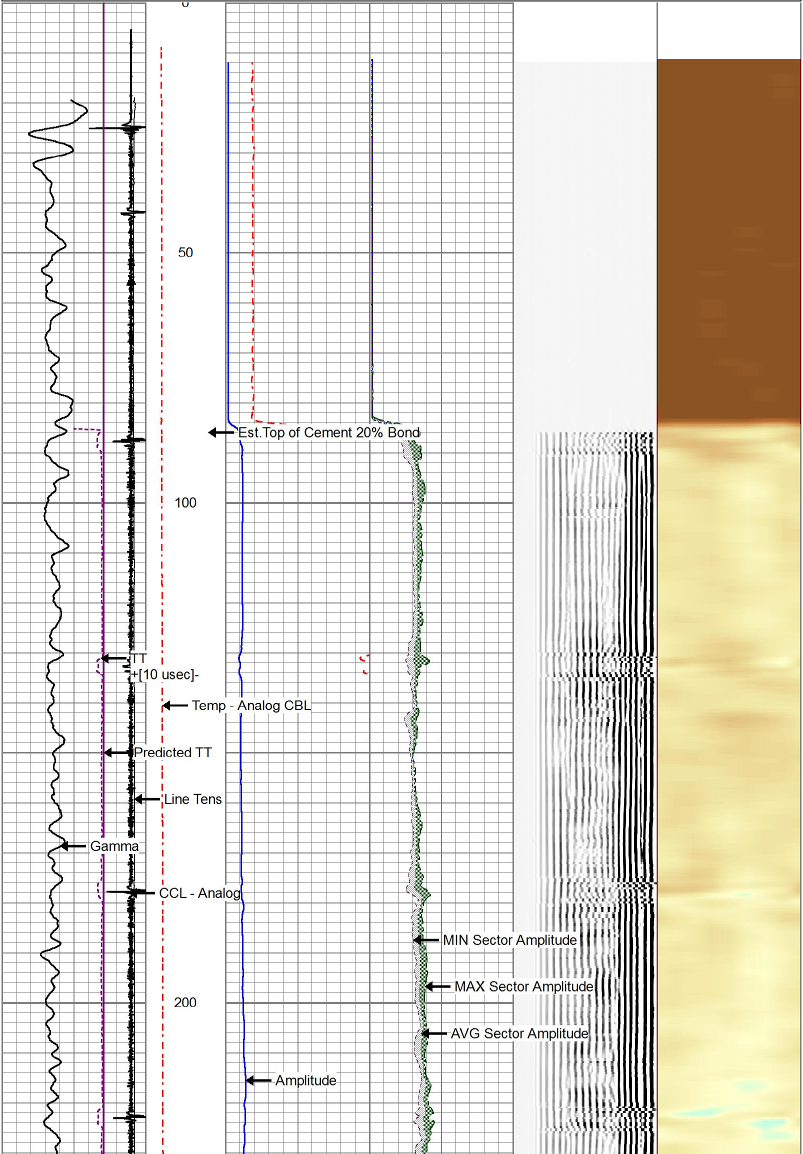
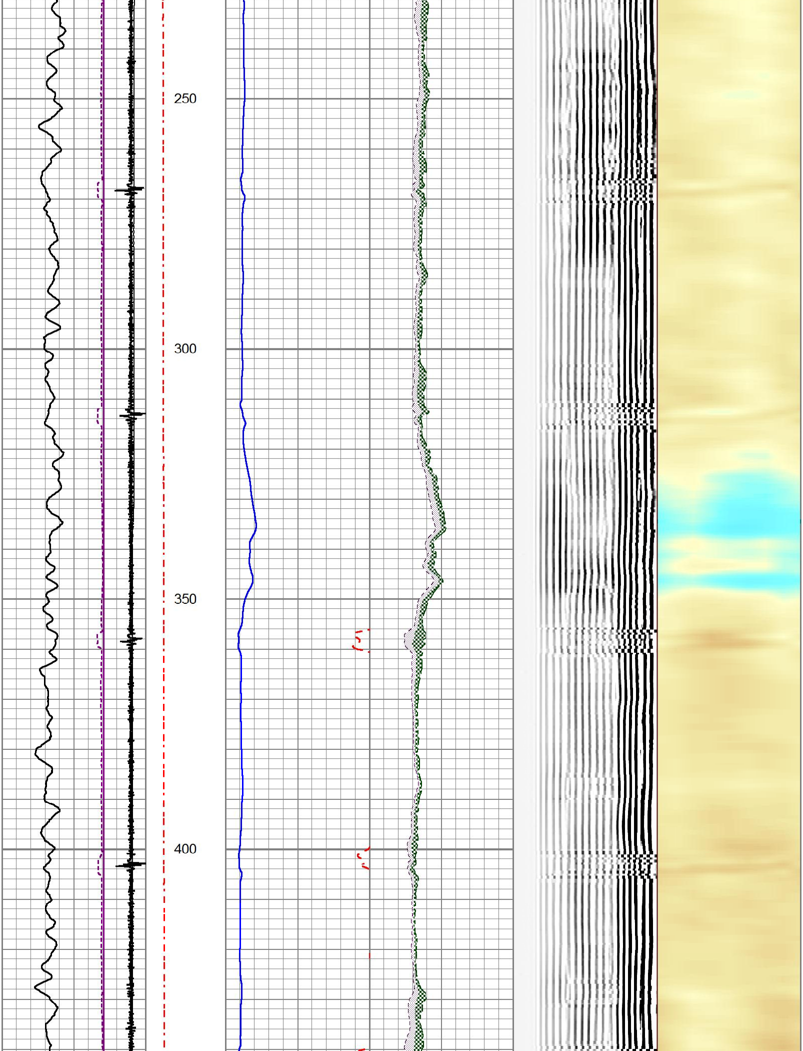
MAIN PASS - Ran with 0 PSI

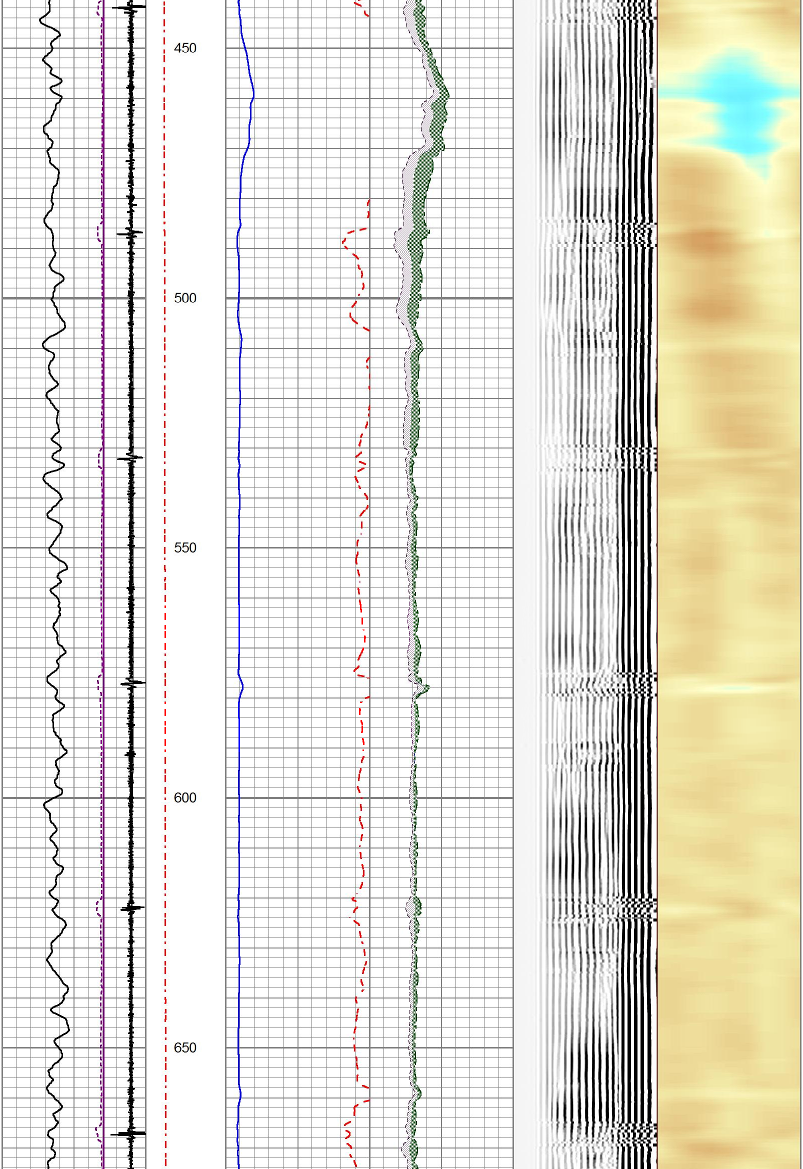
5 in / 100 ft

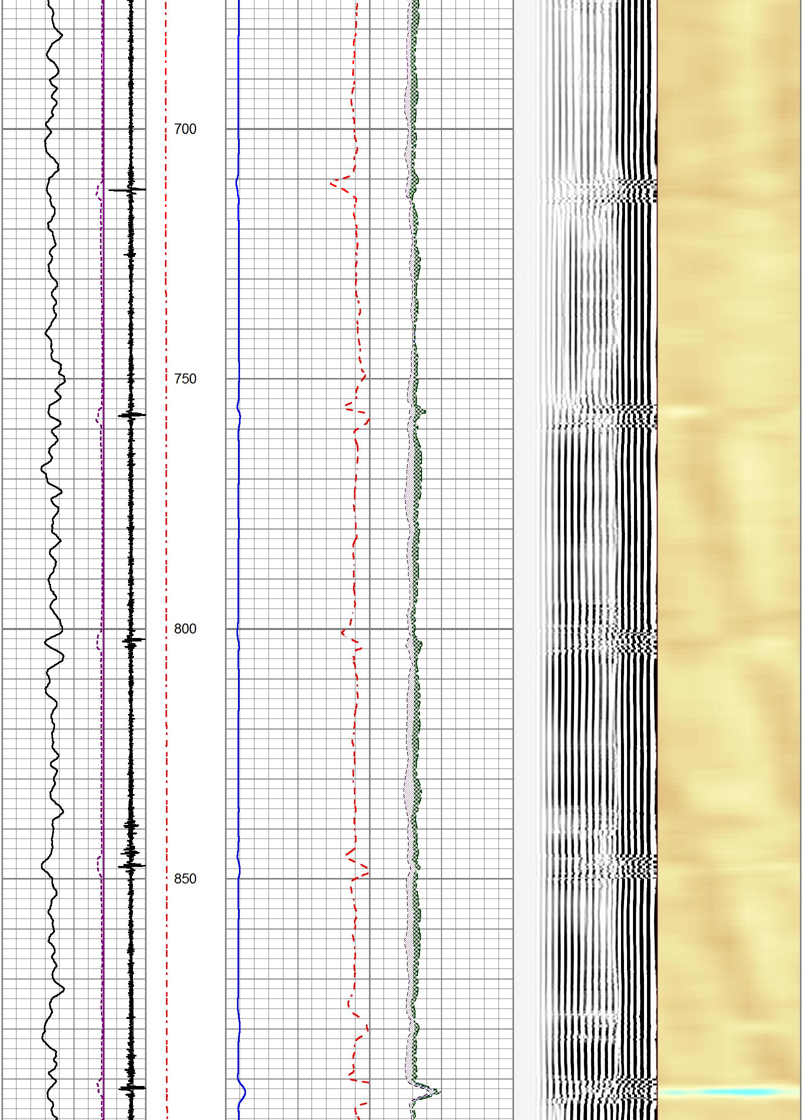
Database File	2018_01_26_extraction_trott_8e_10_9n_cbl\2018_01_26_extraction_trott_8e_10_9n_cbl.db
Dataset Pathname	MAINPASS
Presentation Format	rcbl_8s
Dataset Creation	Fri Jan 26 09:21:58 2018
Charted by	Depth in Feet scaled 1:240

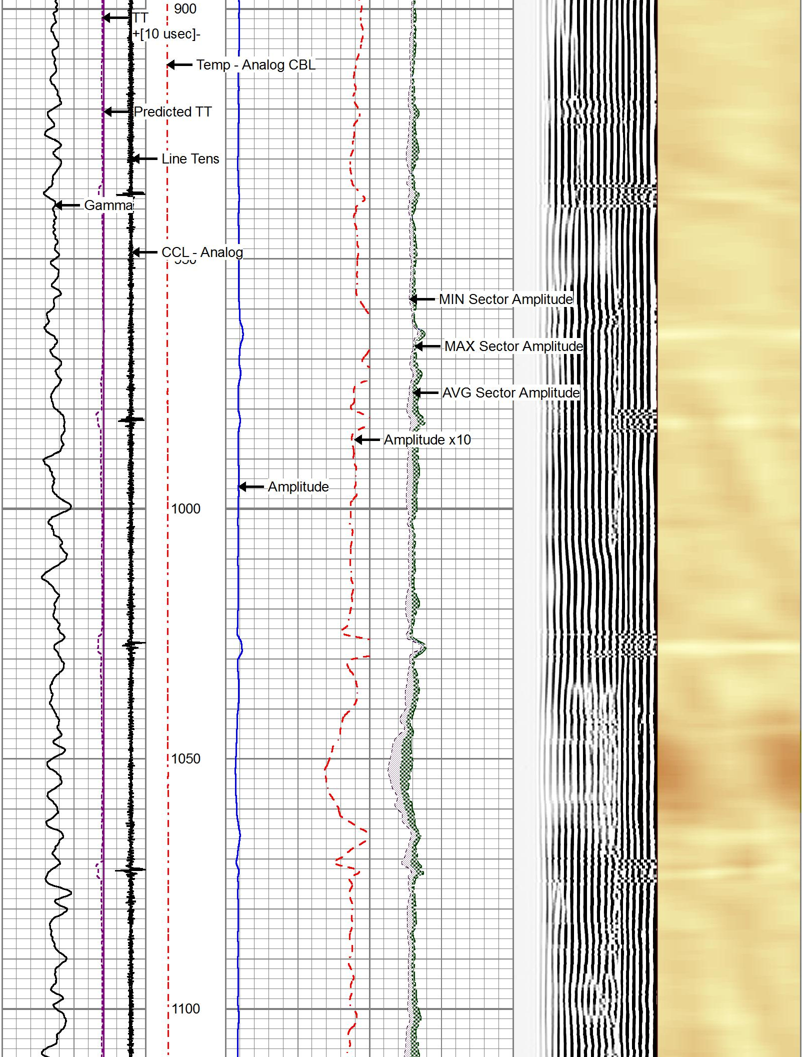
CCL - Analog	np - Analog C	0 Amplitude (mV)100	AVG Sector Amplitude	Acoustic Waveform	SECTORS
Gamma	(degF)	Amplitude x10	0 100	200 (usec) 1200	0 72
0 (GAPI) 200	0 300	0 (mV) 10	MAX Sector Amplitude		
300(Line Tens (lb) 0			0 100		
Predicted TT			MIN Sector Amplitude		
			0 100		
TT +[10 usec]-					

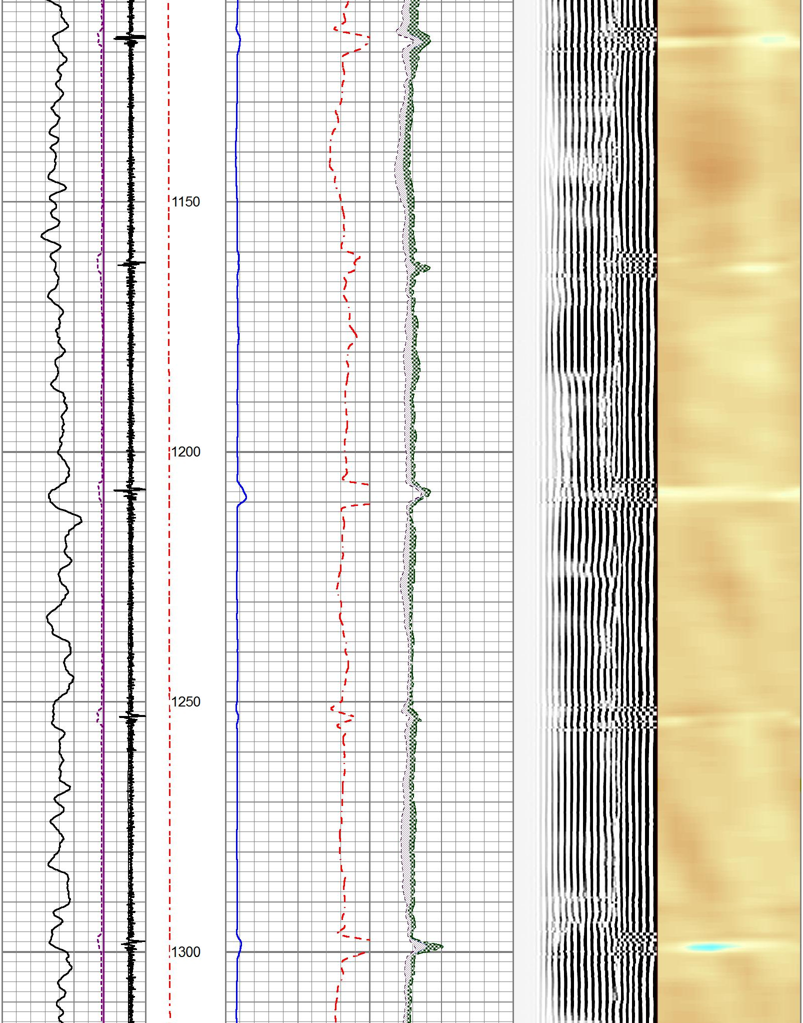


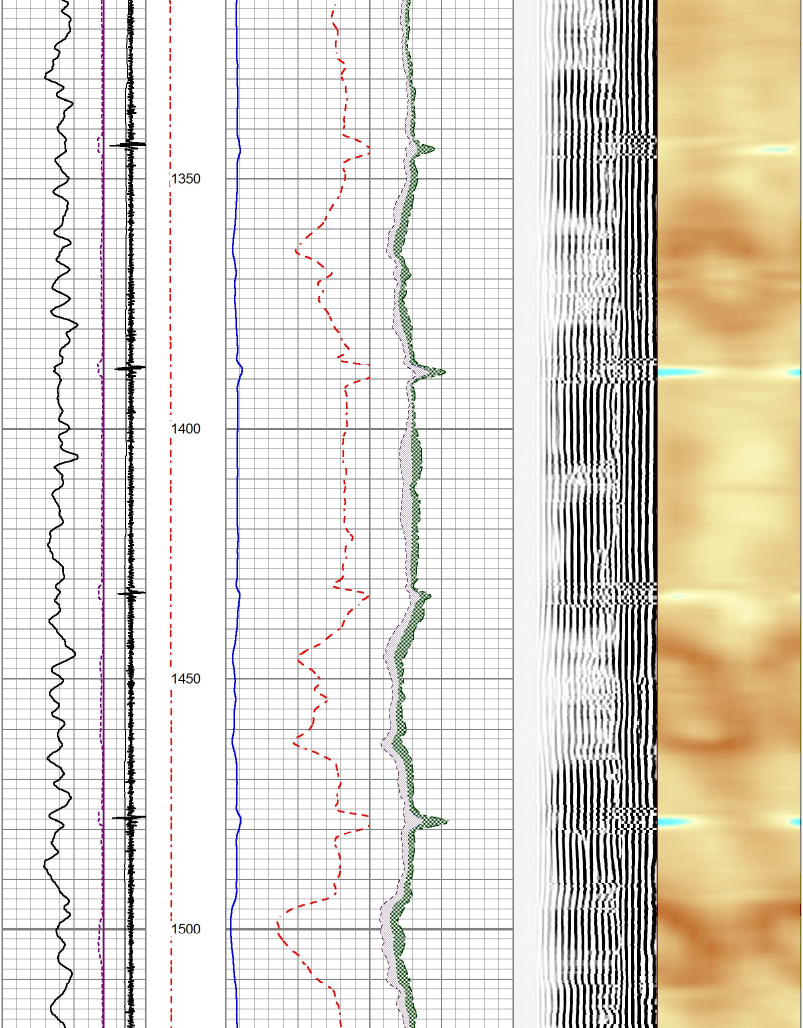


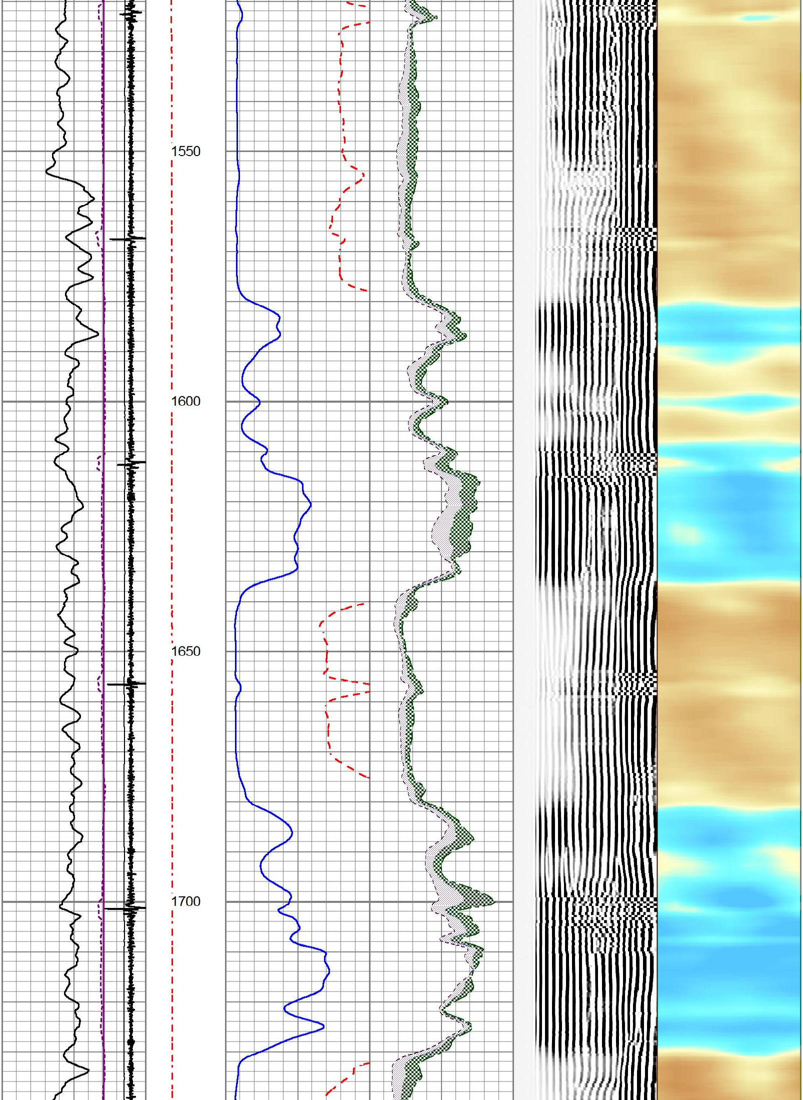


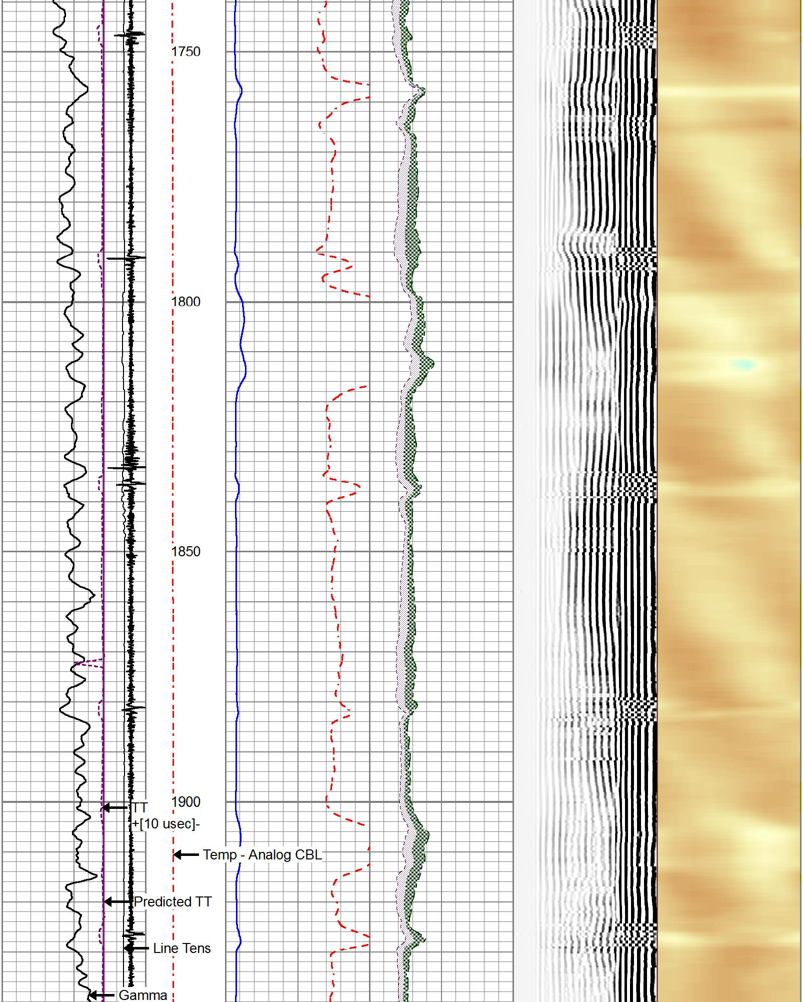


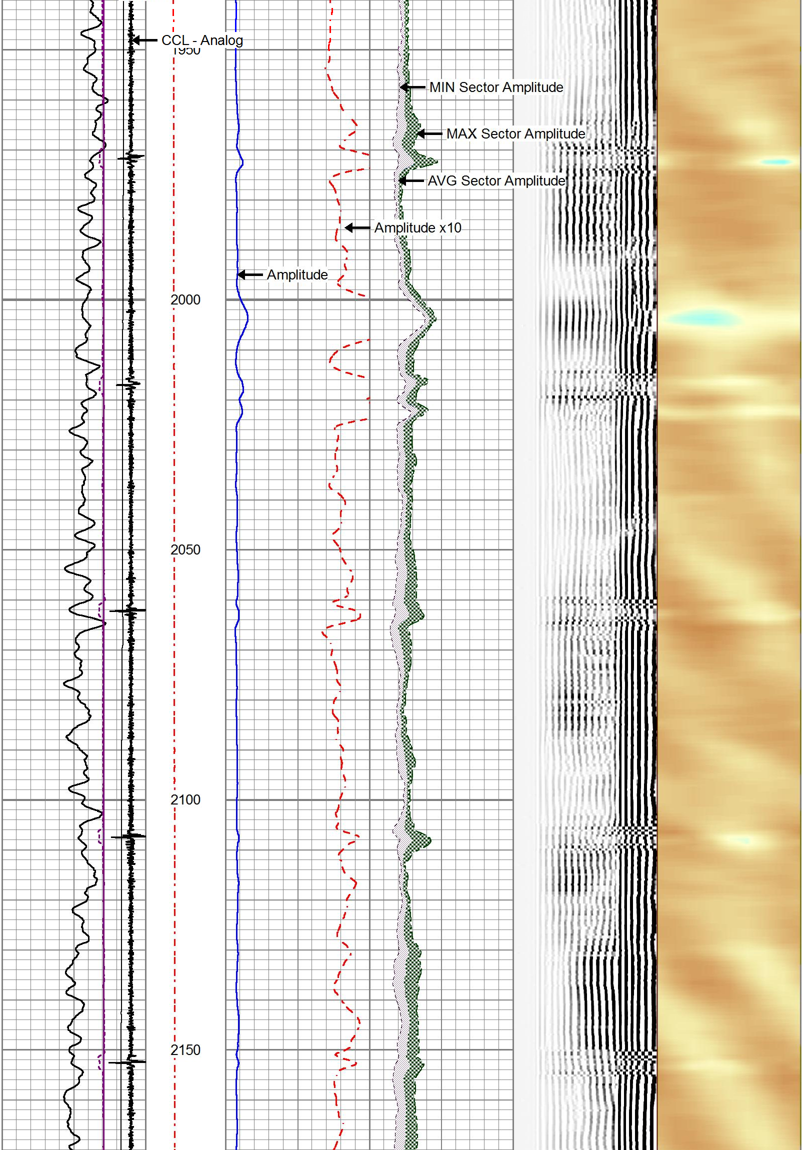


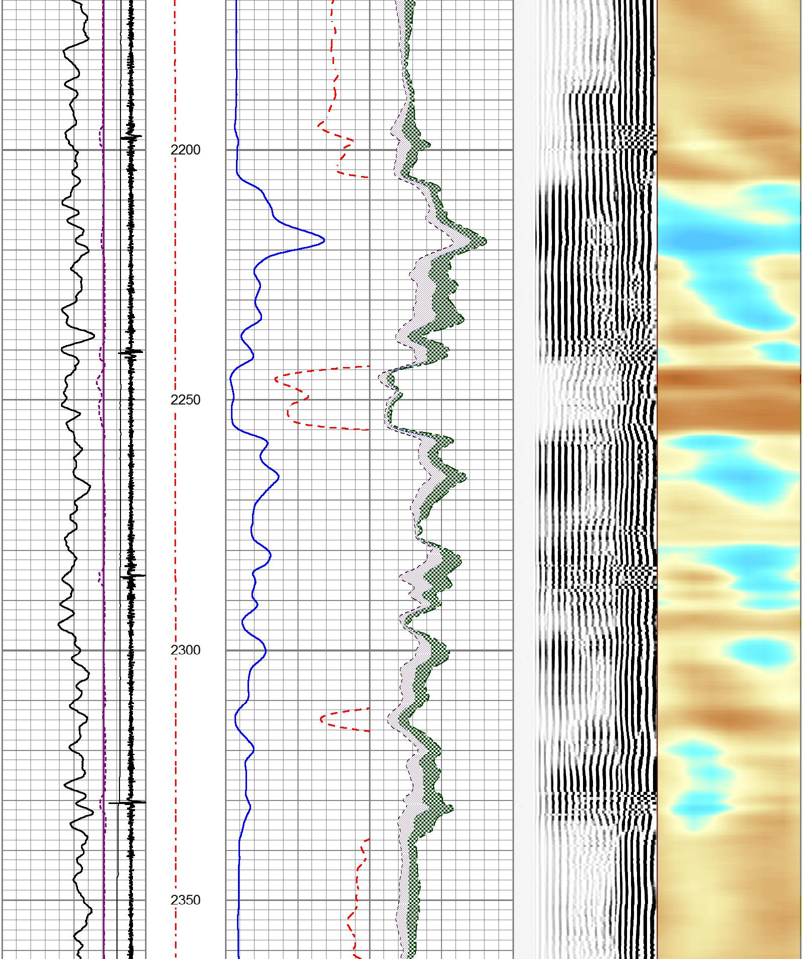


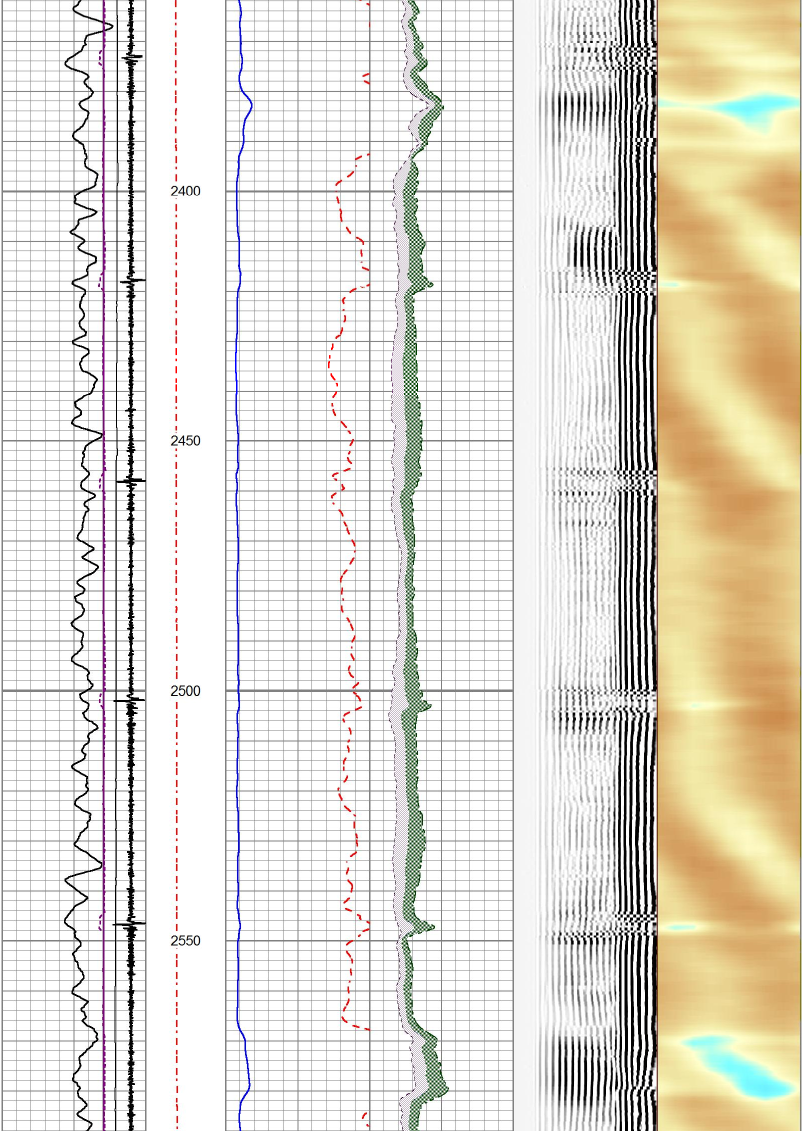


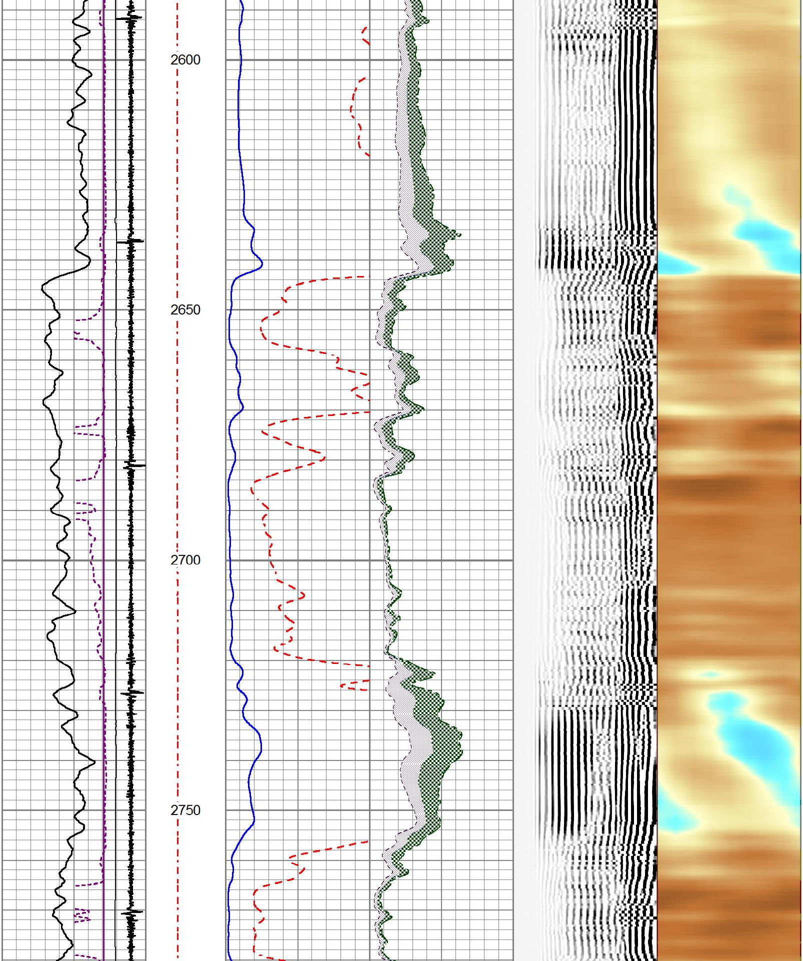


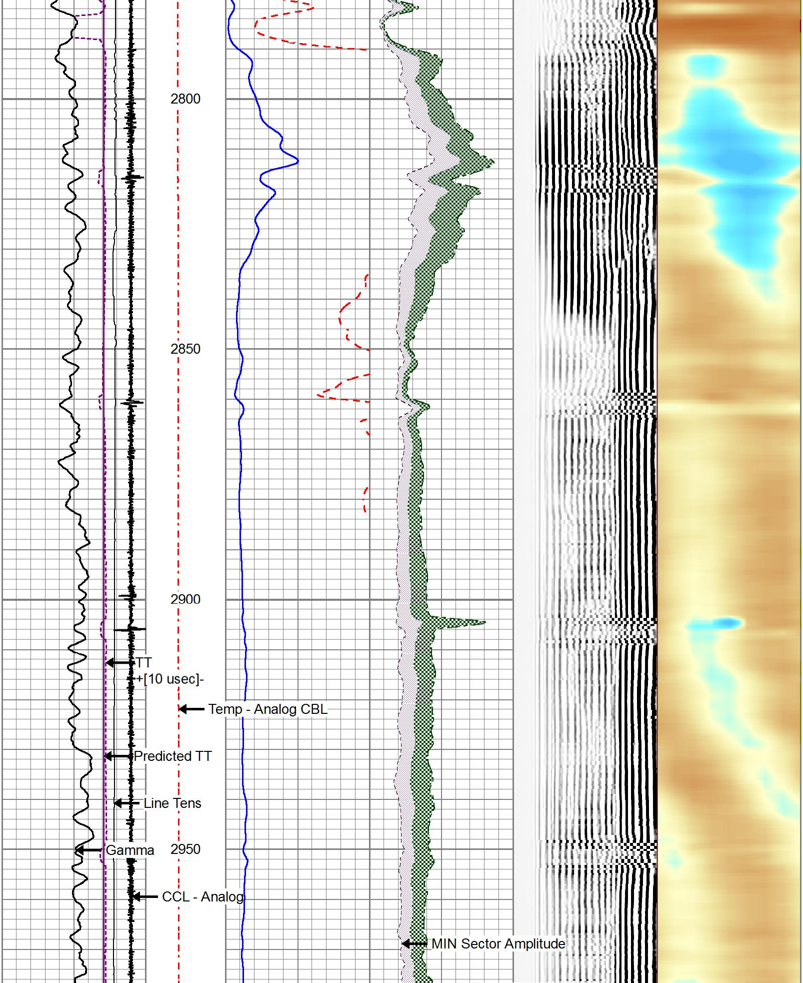


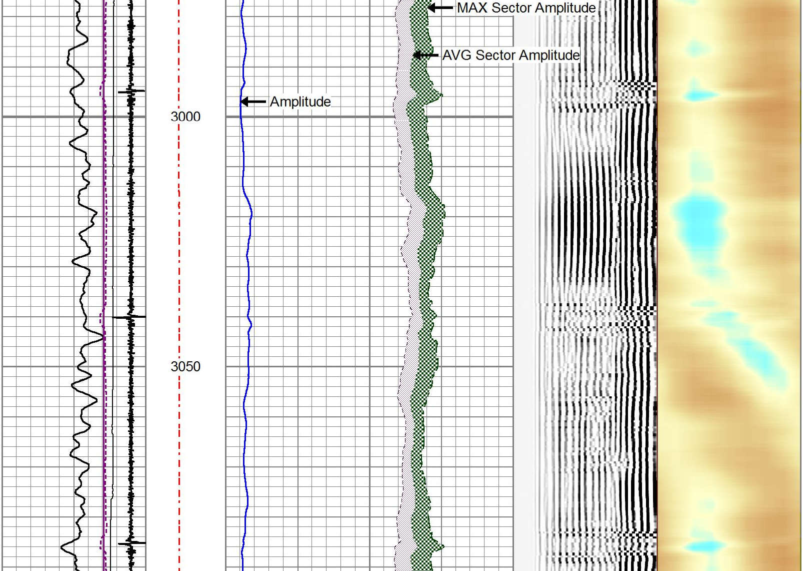


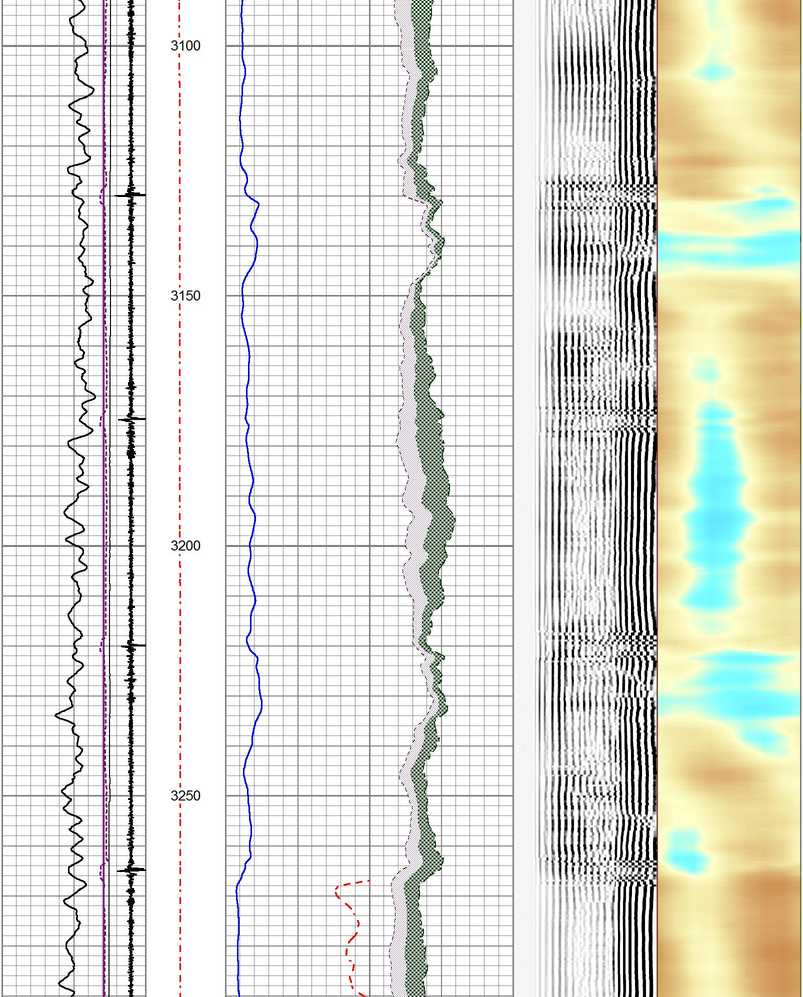


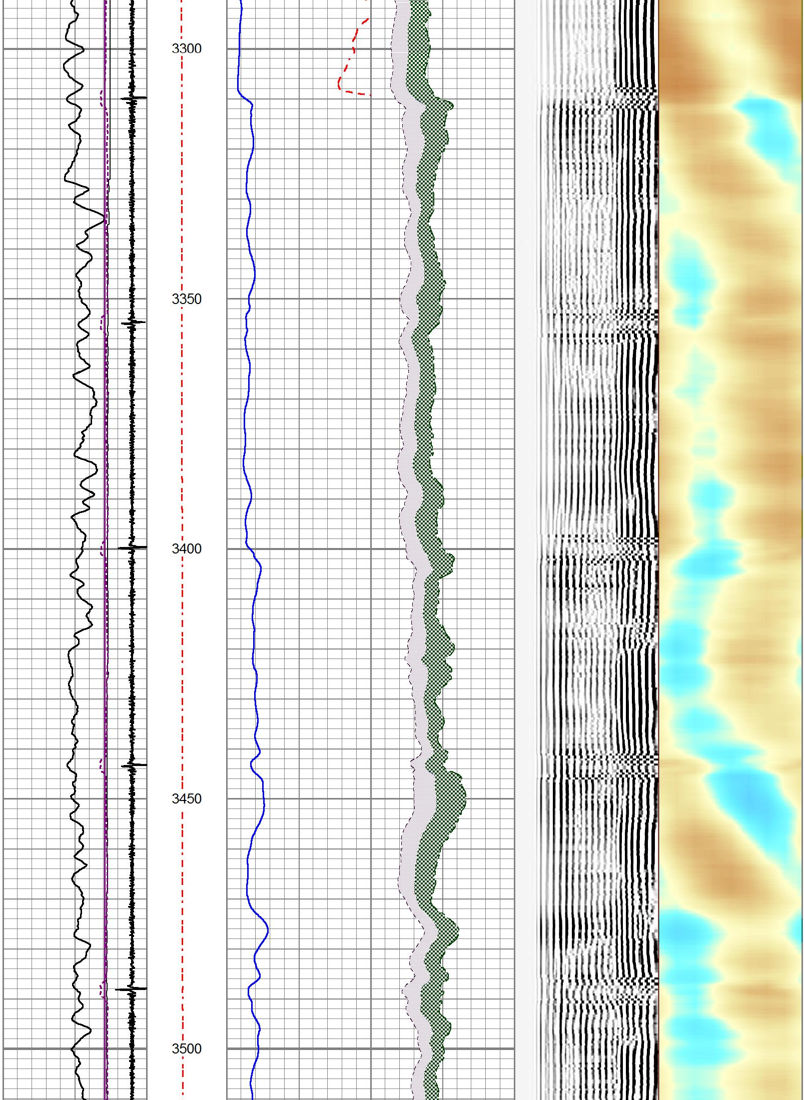


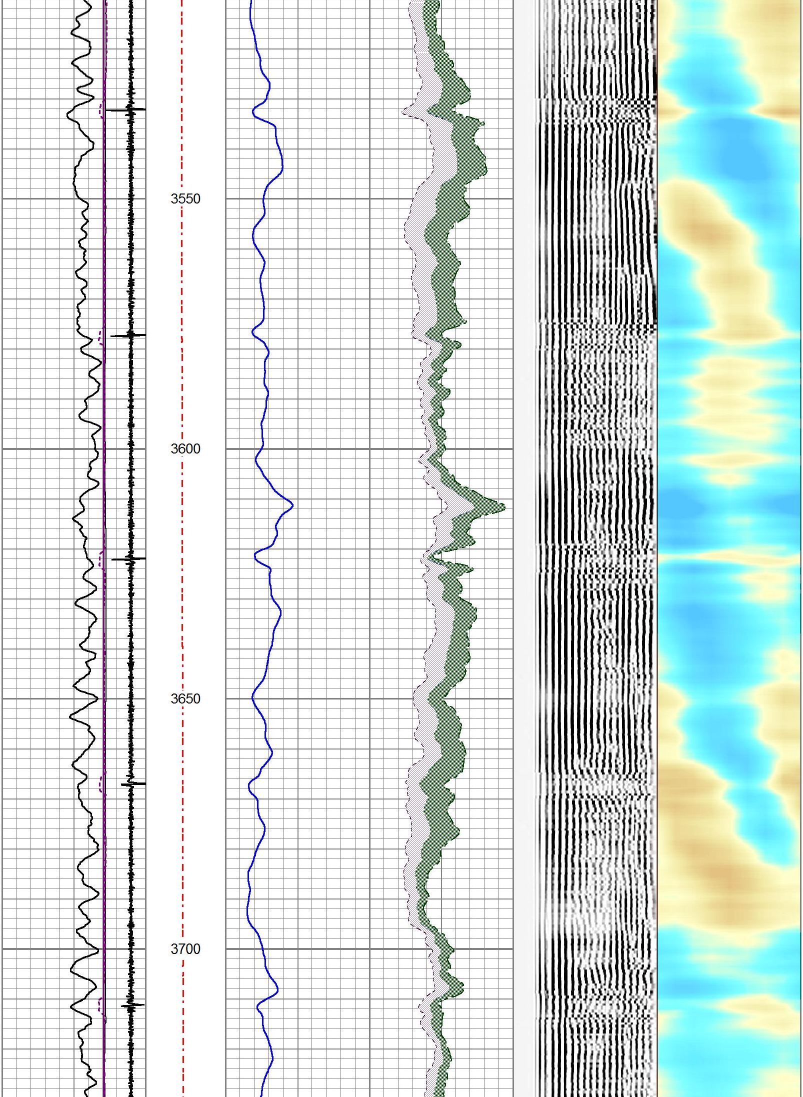


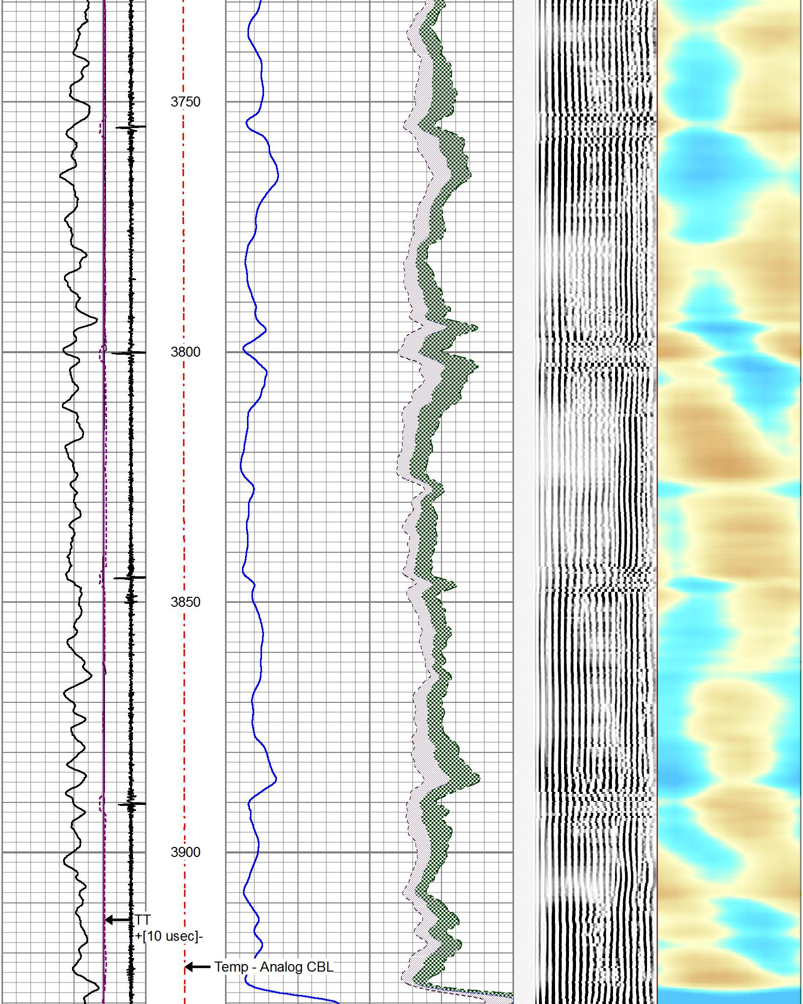


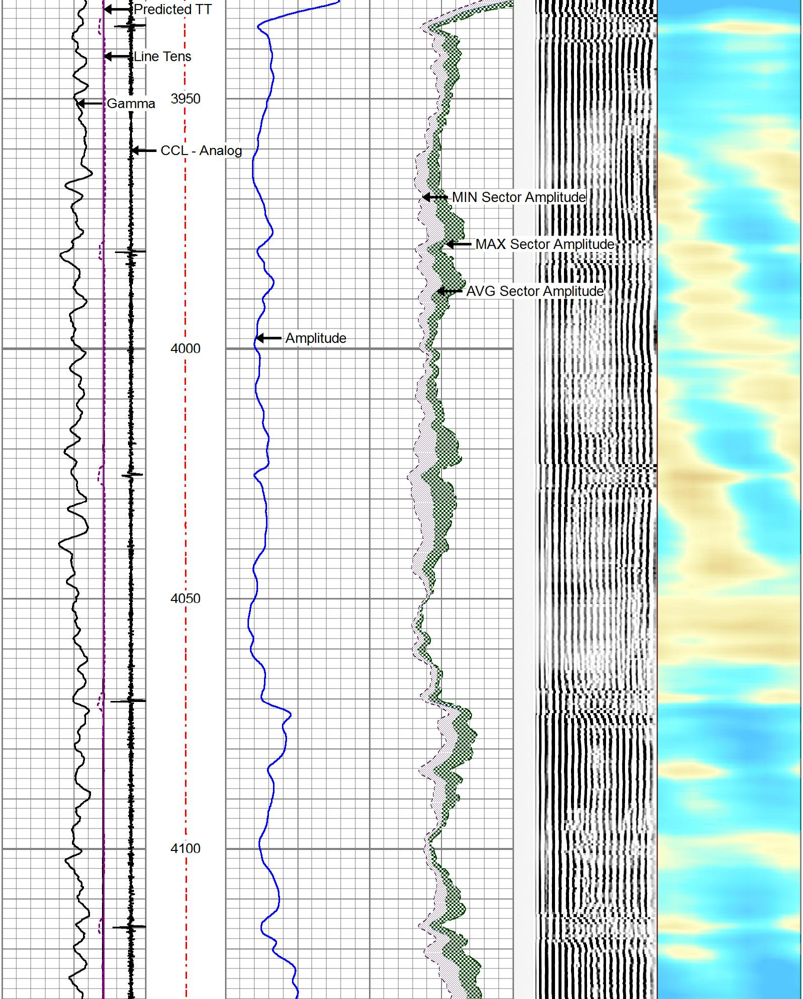


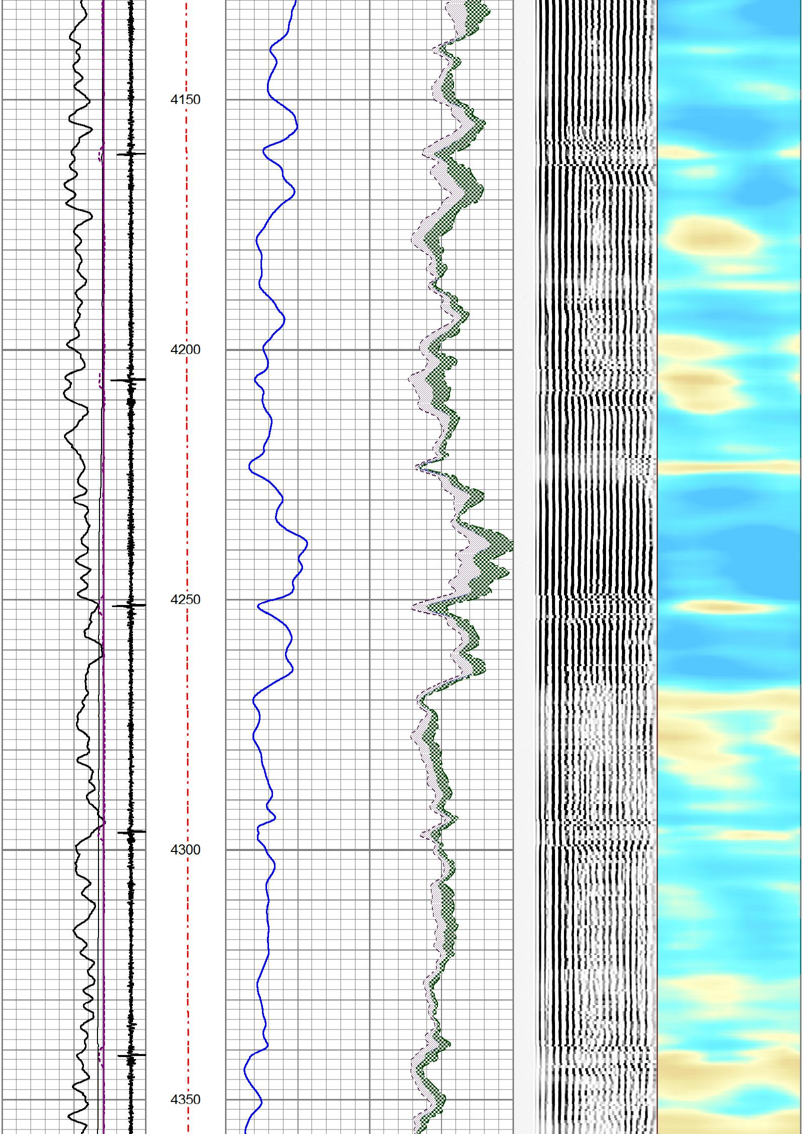


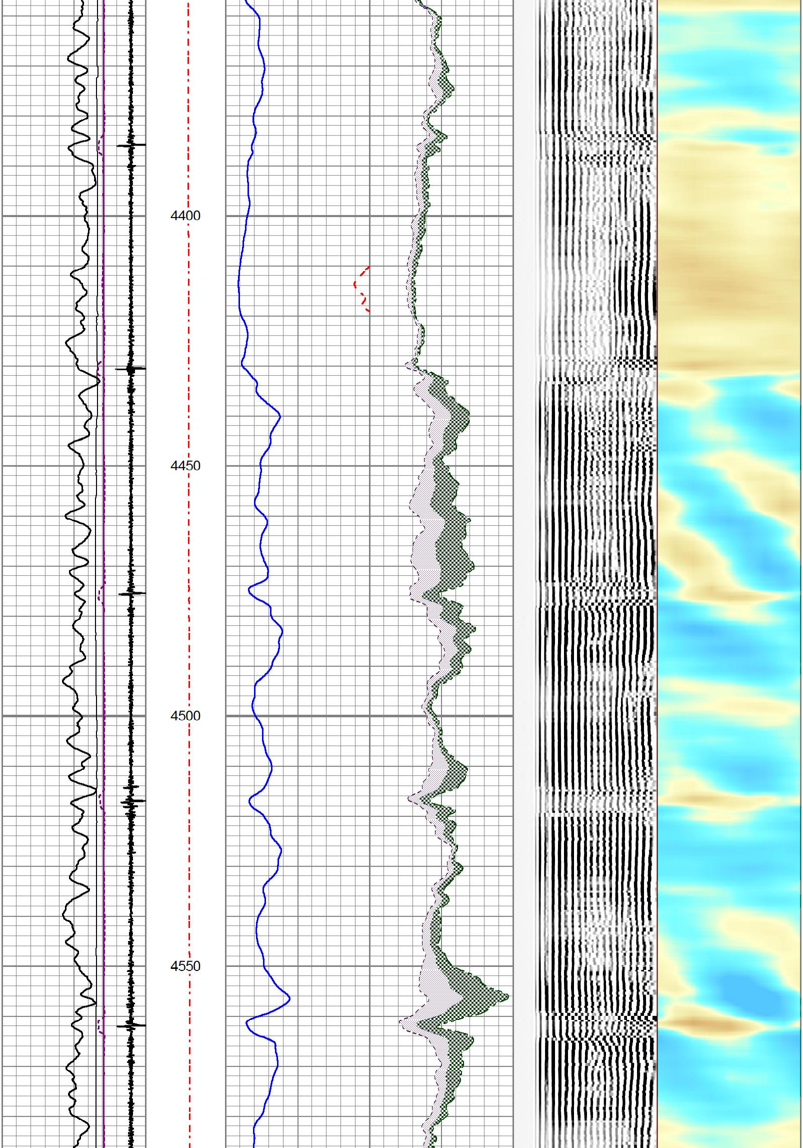


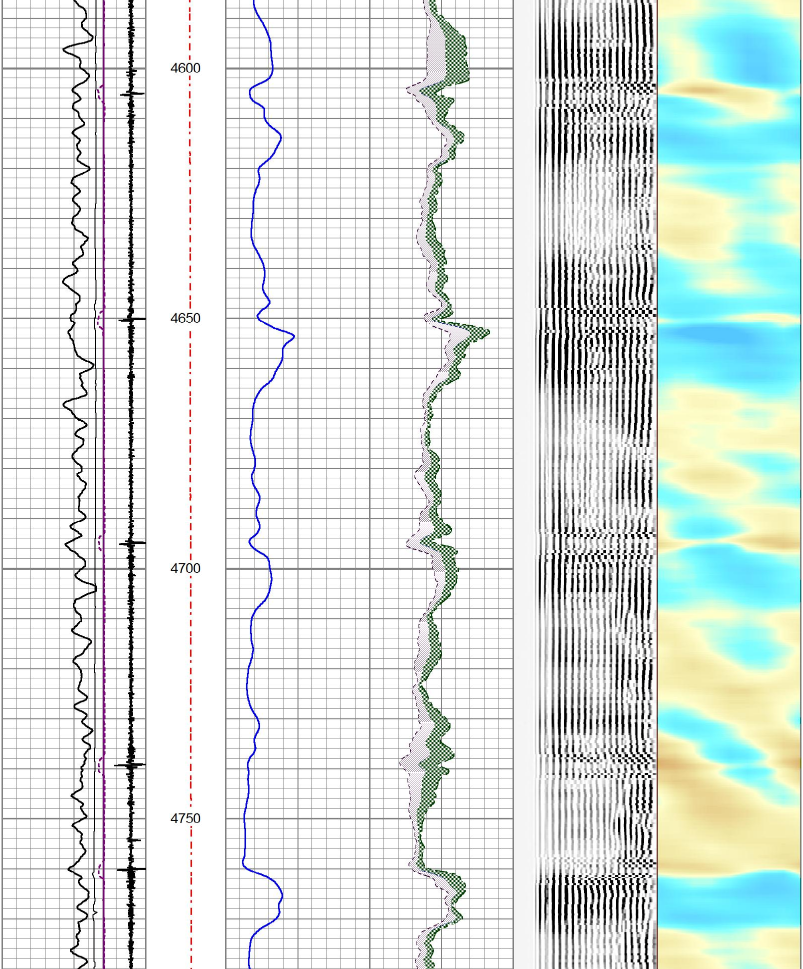


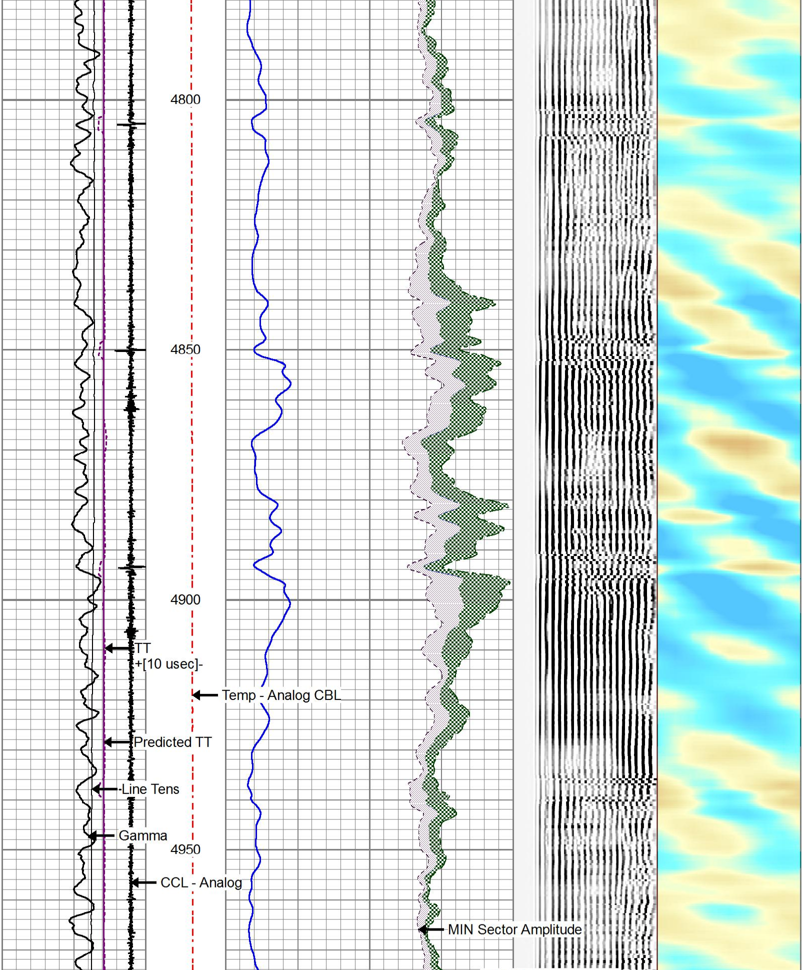


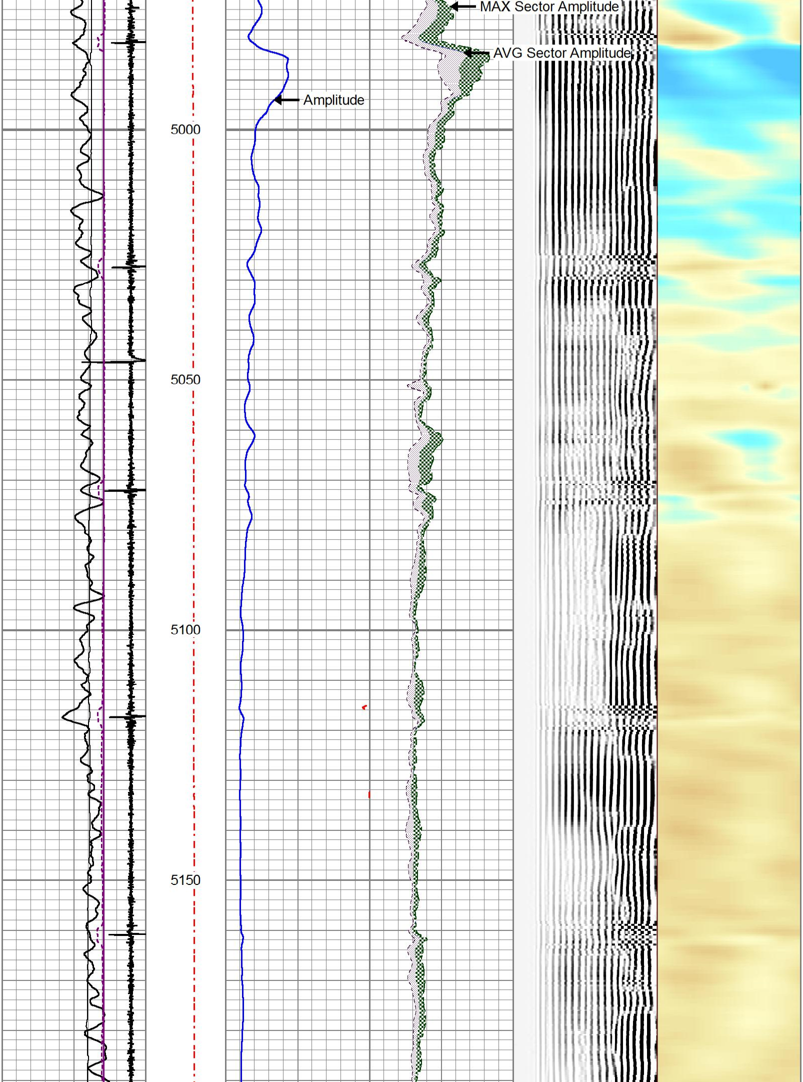


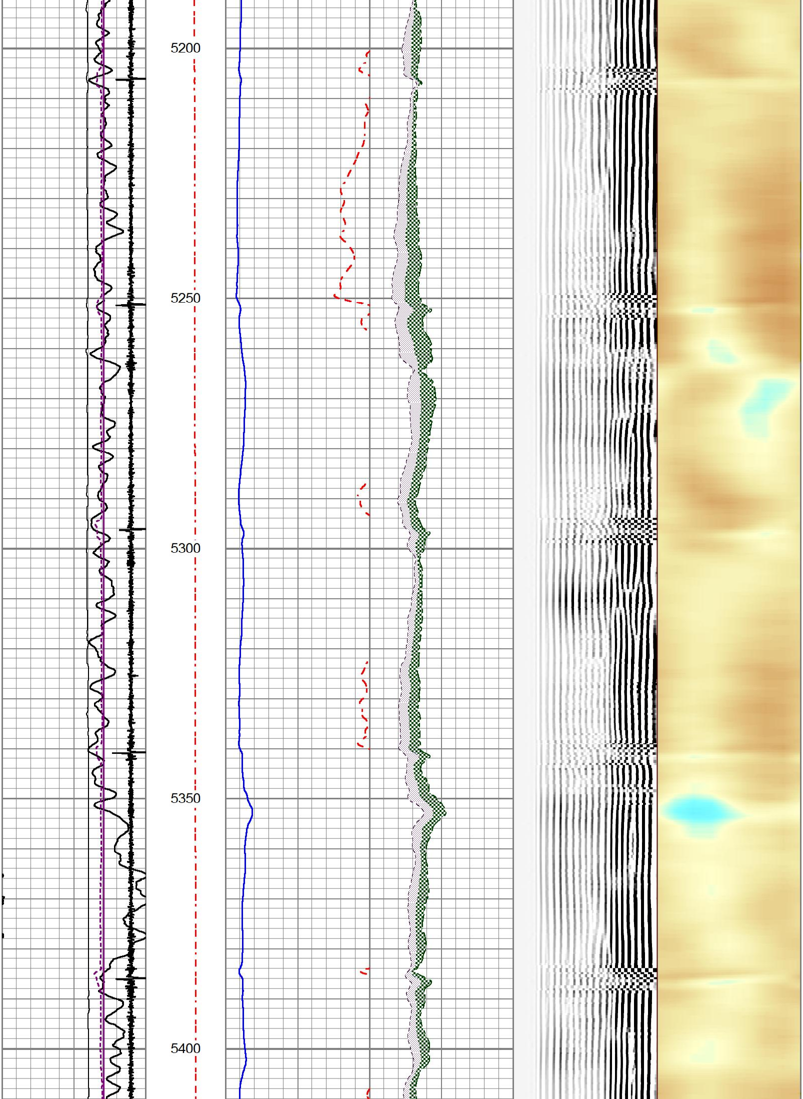


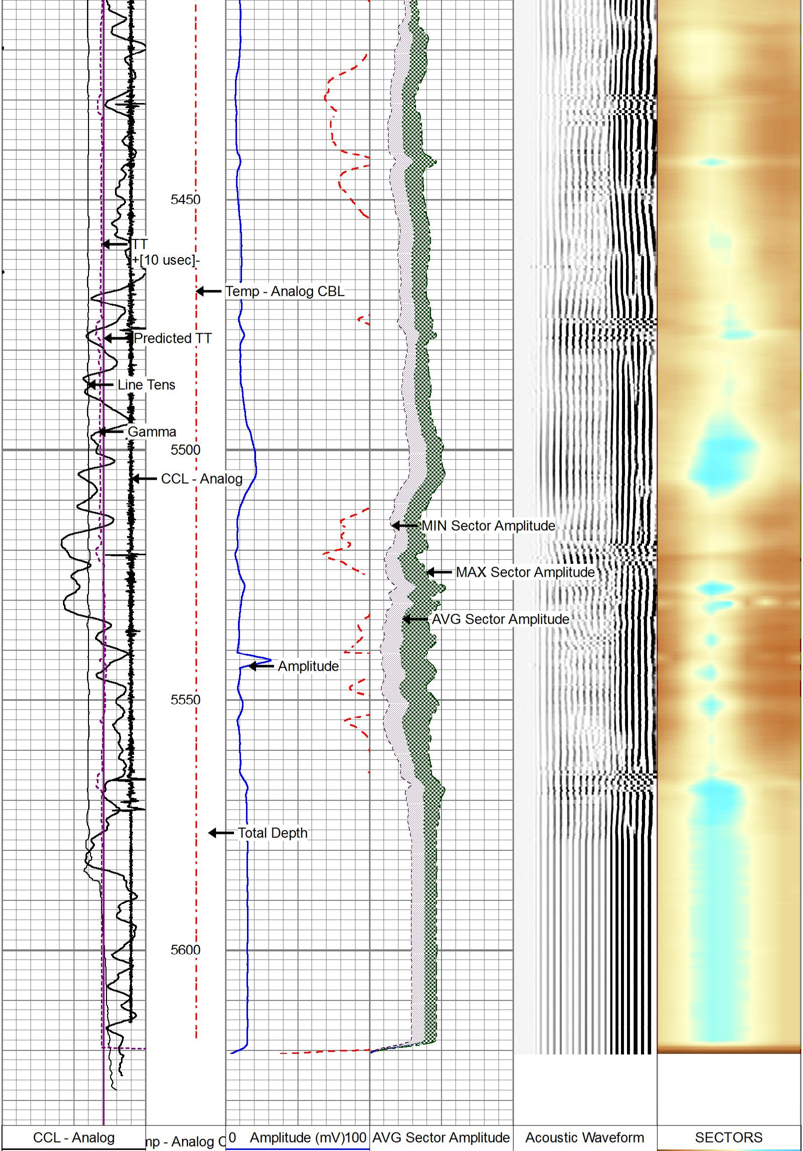












Gamma
0 (GAPI) 200
300(Line Tens (lb) 0
Predicted TT
TT
+[10 usec]-

(degF)
0 300

Amplitude x10
0 (mV) 10

0 100
MAX Sector Amplitude
0 100
MIN Sector Amplitude
0 100

200 (usec) 1200

0 72

MAIN PASS - Ran with 0 PSI

5 in / 100 ft

REPEAT PASS - Ran with 0 PSI

5 in / 100 ft

Database File	2018_01_26_extraction_trott_8e_10_9n_cbl\2018_01_26_extraction_trott_8e_10_9n_cbl.db
Dataset Pathname	REPEATPASS
Presentation Format	rcbl_8s
Dataset Creation	Fri Jan 26 09:27:30 2018
Charted by	Depth in Feet scaled 1:240

CCL - Analog
Gamma
0 (GAPI) 200
300(Line Tens (lb) 0
Predicted TT
TT
+[10 usec]-

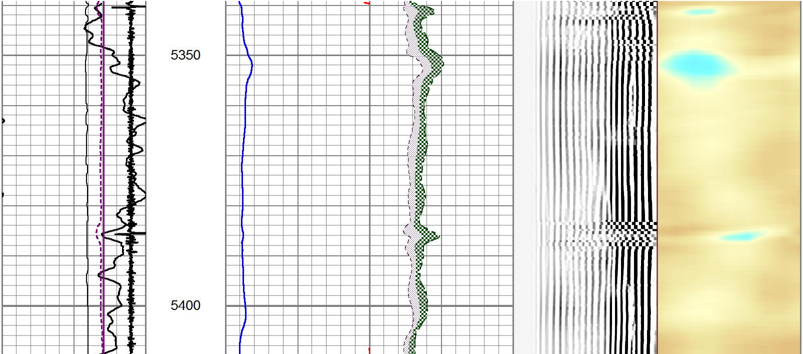
np - Analog C
(degF)
0 300

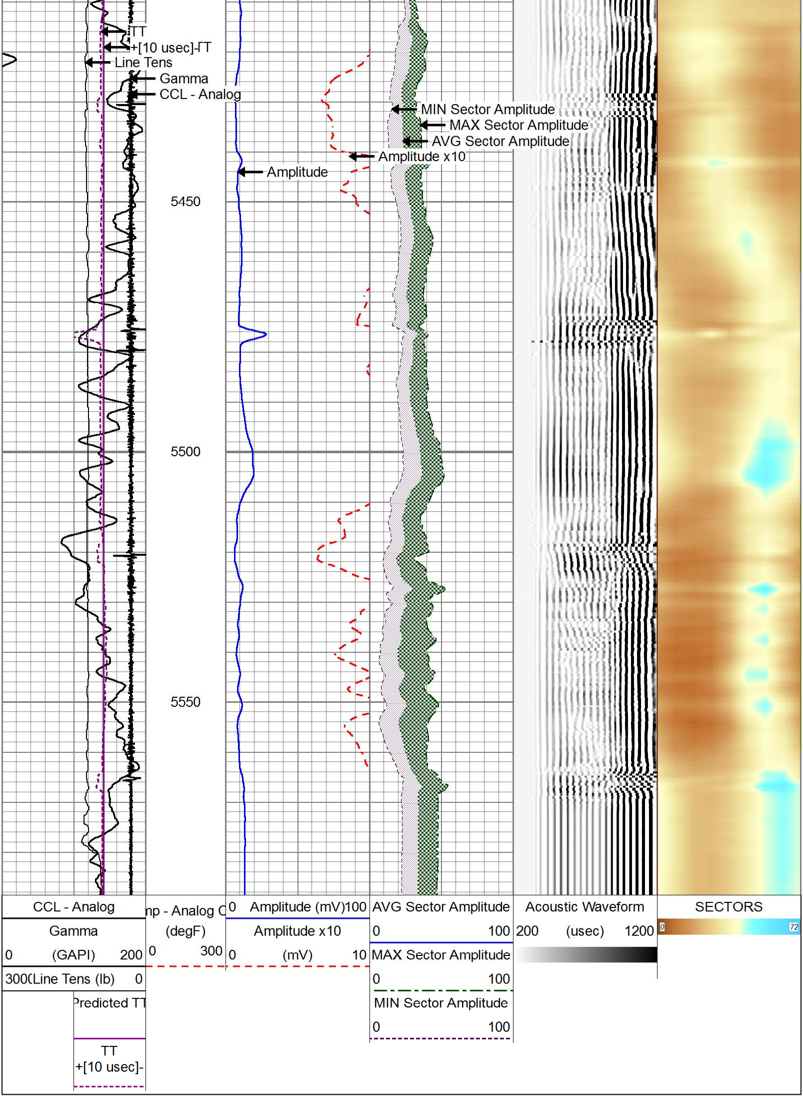
0 Amplitude (mV)100
Amplitude x10
0 (mV) 10

AVG Sector Amplitude
0 100
MAX Sector Amplitude
0 100
MIN Sector Amplitude
0 100

Acoustic Waveform
200 (usec) 1200

SECTORS
0 72





REPEAT PASS - Ran with 0 PSI

5 in / 100 ft

Calibration Report

Database File	d:\warrior\data\2018_01_26_extraction_trott_8e_10_9n_cbl\2018_01_26_extraction_trott_8e_10_9n_cbl.db
Dataset Pathname	MAINPASS
Dataset Creation	Fri Jan 26 09:21:58 2018

Gamma Ray Calibration Report

Serial Number:	ISHV2-03	
Tool Model:	2 3/4" TekCo	
Performed:	Tue Dec 13 00:23:06 2016	
Calibrator Value:	194.0	GAPI
Background Reading:	58.9	cps
Calibrator Reading:	300.8	cps
Sensitivity:	0.8020	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	IPPO2-01	
Tool Model:	2 3/4" RIB Analog	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	982.340	ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.003	1.224	1.900	71.921	57.356	1.724
CAL	-0.010	0.234				
5'	-0.005	1.864	1.900	71.921	37.453	2.099
SUM						
S1	0.030	1.211	1.900	71.921	59.268	0.150
S2	0.031	1.170	1.900	71.921	61.469	-0.023
S3	0.035	1.200	1.900	71.921	60.099	-0.176
S4	0.036	1.069	1.900	71.921	67.776	-0.551
S5	0.032	1.015	1.900	71.921	71.217	-0.375
S6	0.029	0.979	1.900	71.921	73.726	-0.272
S7	0.029	1.053	1.900	71.921	68.339	-0.056
S8	0.028	1.122	1.900	71.921	64.047	0.091

Internal Reference Calibration, performed Fri Aug 25 16:15:12 2017:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.010	0.234	1.000	0.000

Air Zero Calibration, performed Fri Aug 25 16:15:12 2017:

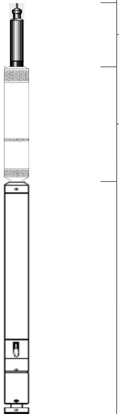
	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.000	0.000	0.000
5'	0.000	0.000	0.000
SUM			
S1	0.000	0.000	0.000
S2	0.000	0.000	0.000
S3	0.000	0.000	0.000
S4	0.000	0.000	0.000
S5	0.000	0.000	0.000
S6	0.000	0.000	0.000
S7	0.000	0.000	0.000
S8	0.000	0.000	0.000

Temperature Calibration Report

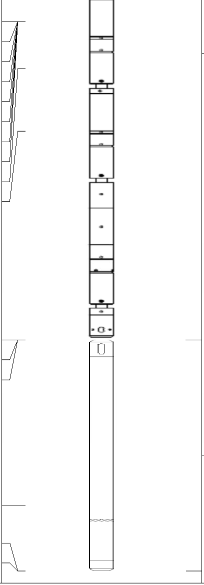
Serial Number: IPPO2-01
Tool Model: 2 3/4" RIB Analog
Performed: Fri Aug 26 11:07:15 2016

	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
			CableHead-TitanConeType2	1.03	1.44	3.60
			CCL_Log-2 3/4" TekCo (IPSN7-03)	1.83	2.75	33.00
CCL	13.50					
TEMP	10.05					

WVFS8	8.76
WVFS7	8.76
WVFS6	8.76
WVFS5	8.76
WVFS4	8.76
WVFS3	8.76
WVFS2	8.76
WVFS1	8.76
WVF3FT	8.01
WVF5FT	7.01
WVFSYNC	3.68
WVFTEMP	3.68
WVFCAL	3.68
GR	1.04
LOCTIM	0.00
UTCTIM	0.00



RBTA-2 3/4" RIB Analog (IPPO2-01)	9.13	2.75	102.00
GR_Log-2 3/4" TekCo (ISHV2-03)	3.68	2.75	47.00

Dataset: 2018_01_26_extraction_trott_8e_10_9n_cbl.db: field/well/run1/MAINPASS
Total length: 15.67 ft
Total weight: 185.60 lb
O.D.: 2.75 in

gyrodata

Company	Extraction OIl and Gas Inc.
Well	Trott 8E-10-9N
Field	Wattenberg
County	Weld
State	CO.
Country	U.S.A.