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CEMENT BOND LOG

Company	**Conoco Phillips**
Well	**State La Plata 5-65 13-15 3DH**
Field	**------**
County	**Arapahoe**
State	**CO**

API # : 05-005-07259
Location:
Lat: 39° 36' 46.39" N
Long: 104° 36' 59.98" W

Other Services
JB / GR
Gyro

Elevation
K.B. 5,923'
D.F. -----
G.L. 5,897'

SEC: 13 TWP: 5S RGE: 65W

Permanent Datum: Ground Level Elevation: 5,897'
Log Measured From: Kelly Bushing , 26 ft. above Permanent Datum.
Drilling Measured From: Kelly Bushing

Date	16 Feb 2018
Run Number	One
Plug Back T.D. Driller	-----
Plug Back T.D. Logger	-----
Bottom Logged Interval	7887'
Top Log Interval	Surface
Type Fluid	-----
Density / Viscosity	-----
Max. Recorded Temp.	241°F
Time Logger on Bottom	13:00
Equipment Number	GD 114
Location	Casper, WY
Recorded By	J. Baker
Witnessed By	J. Burger

Casing Record				Tubing Record			
Size	Weight	From	To	Size	Weight	From	To
9 5/8"	36#	Surface	2440'				
5 1/2"	23#	Surface	17,718'				

Company	Conoco Phillips
Well	State La Plata 5-65 13-15 3DH
Field	------
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State	CO

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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.

Ticket # : RM0218PCBW241
Your Crew Today: J. Adams, M. Velasquez, T. Staker, D. Hamilton
Log Correlated to: Marker Joint at 7,050'

Cement Data

Date Cemented	-----
Primary / Squeeze	Primary
Type / Weight	-----
Main Pass Press.	500 psi
Repeat Pass Press.	0 psi

Bond Index

Index %	Est Top Depth
20 % Bond	126'
40 % Bond	285'
60 % Bond	940'
80 % Bond	-----
100 % Bond	-----

Comments

KOP 7,288'

Marker Joint at 7,050'

Thank you for using Gyrodata

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

Log Variables

Databased:\warrior\data\2018_02_16_conoco_state_la_plata_5_65_13_15_3dh_cbl\2018_02_16_c
Dataset field/well/run1/MAINPASS/_vars_

Top - Bottom

BHTEMP_Src	BOREID	BOTTEMP	CASEOD	CASETHCK	CASEWGHT	MAXAMPL	MaxAPIID
	in	degF	in	in	lb/ft	mV	in
TEMP	8.5	241	5.5	0.415	23	71.9	4.829

MaxAPIWall	MINAMPL	MinAPIID	MINATTN	PPT
in	mV	in	db/ft	usec
0.415	2.6	4.643	0	239

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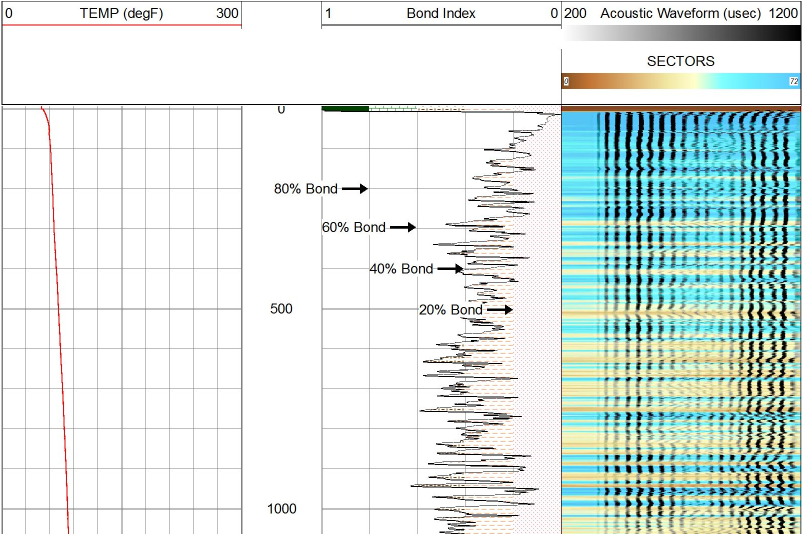
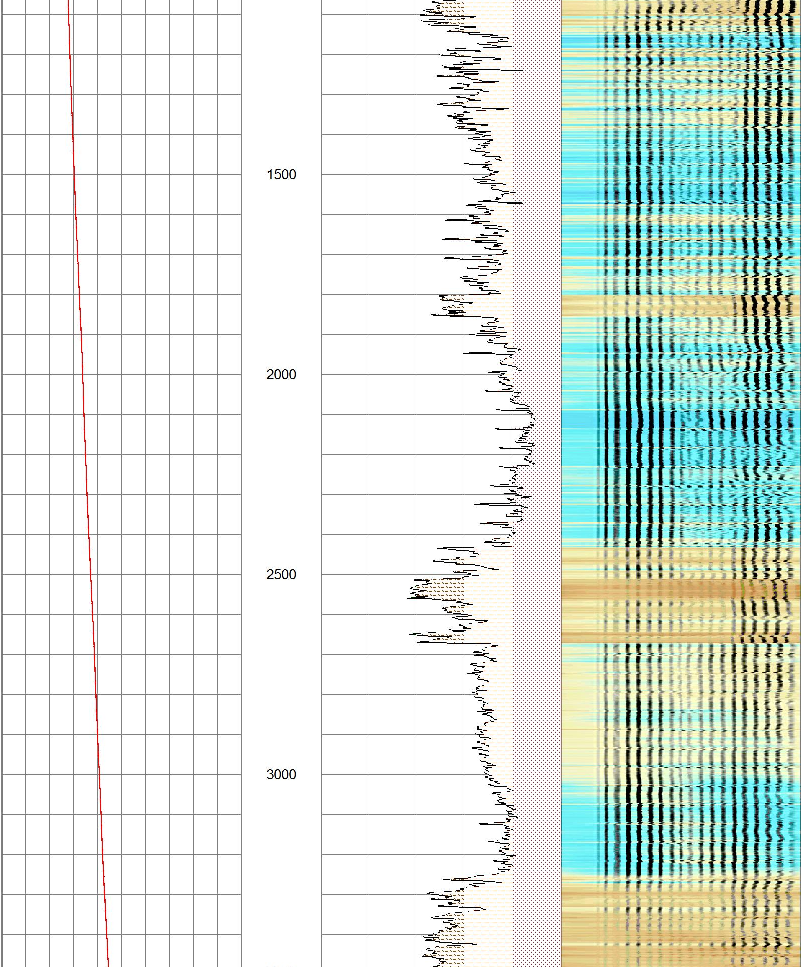
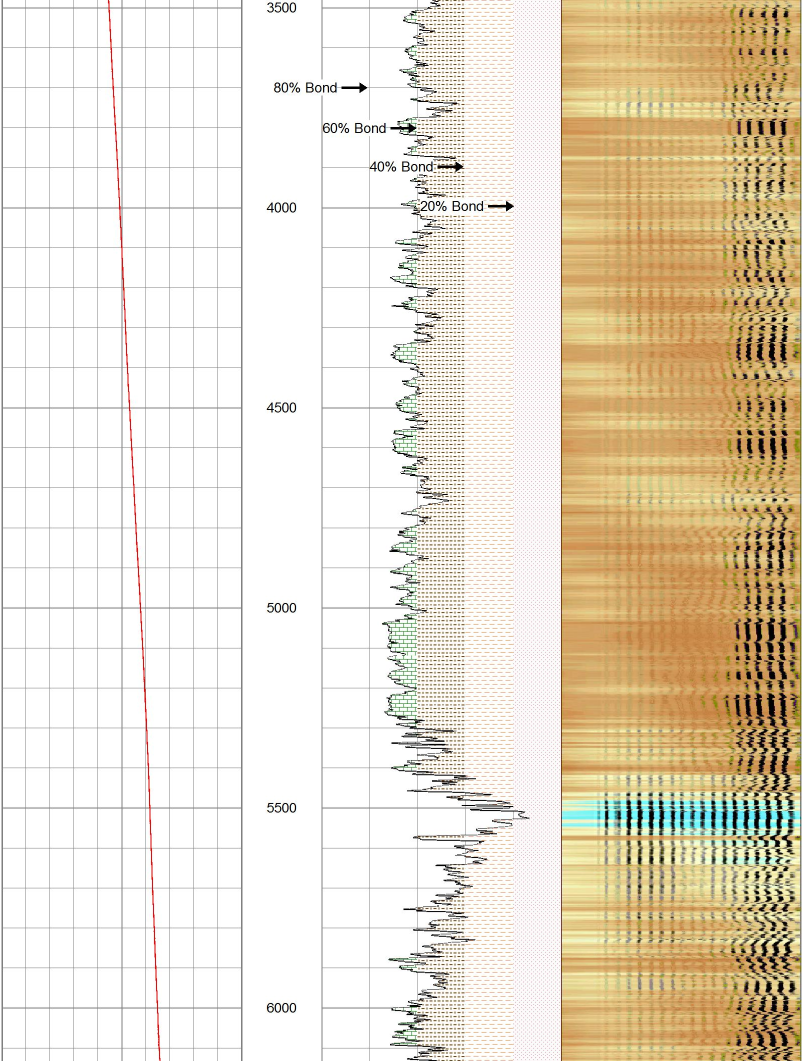
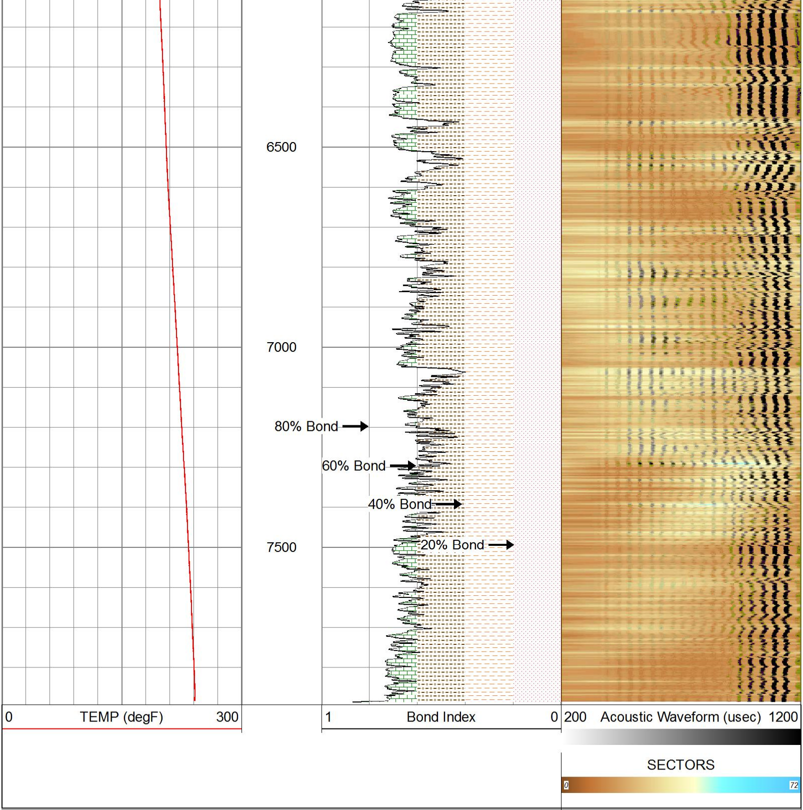
BOND INDEX

Database File	2018_02_16_conoco_state_la_plata_5_65_13_15_3dh_cbl\2018_02_16_conoco_state_la_plata_5_65_13_
Dataset Pathname	BOND
Presentation Format	bndindx_msg-sec
Dataset Creation	Fri Feb 16 14:26:33 2018
Charted by	Depth in Feet scaled 1:3000









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BOND INDEX

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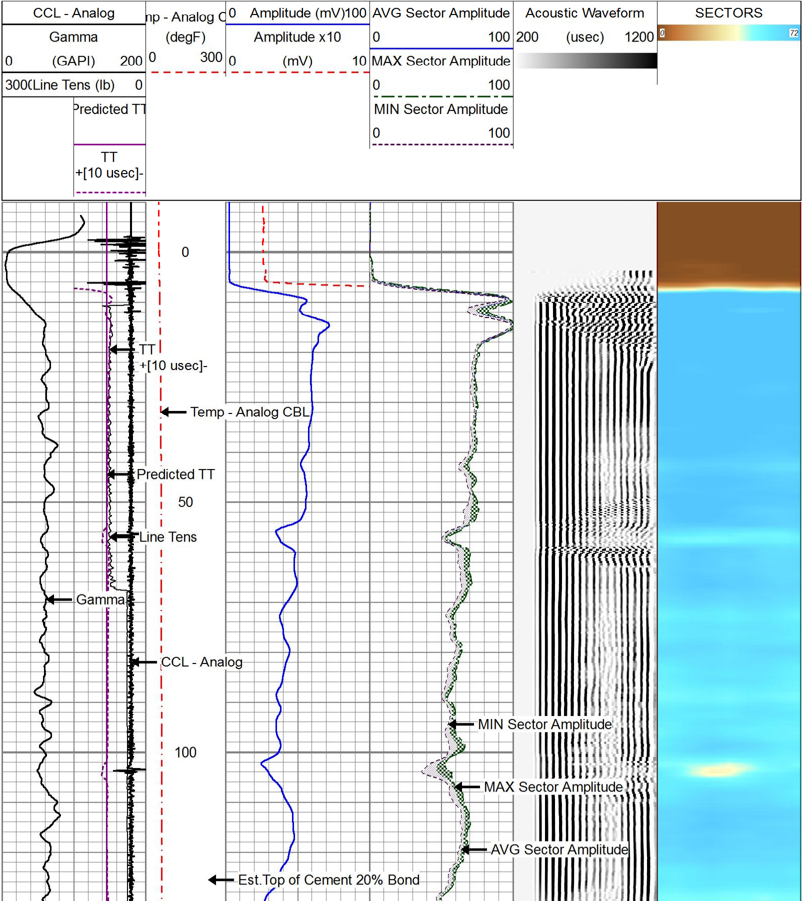
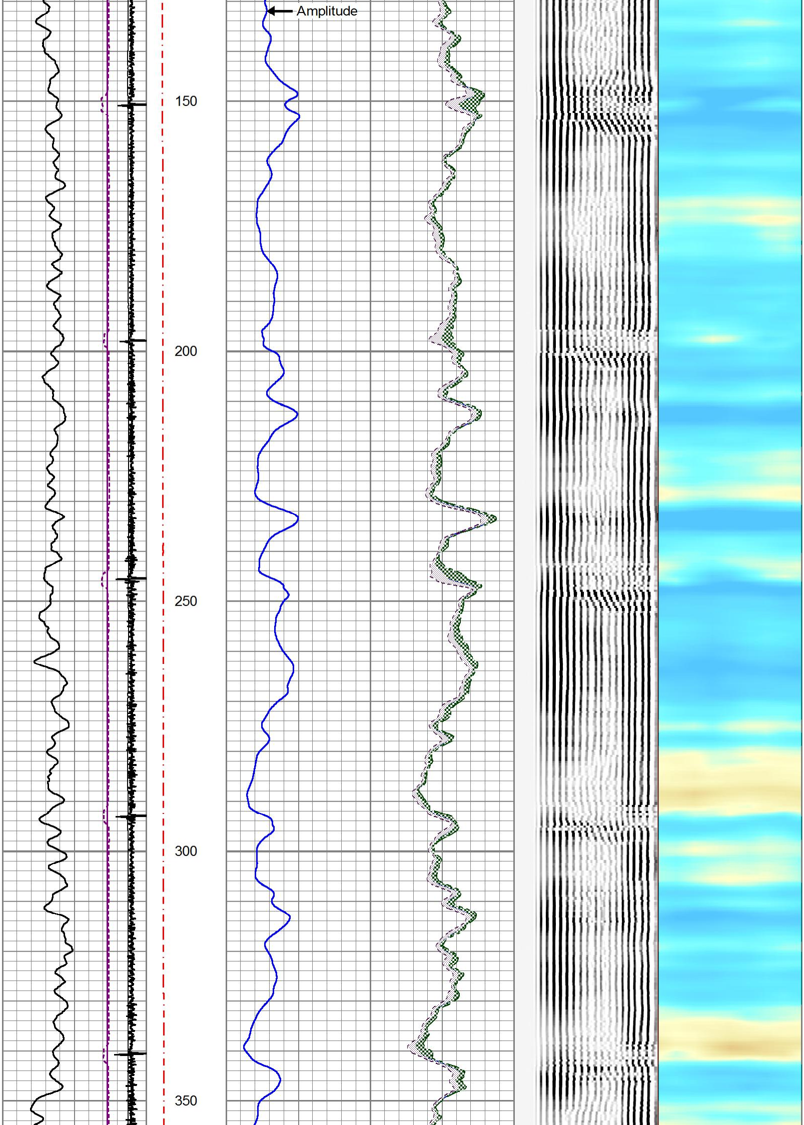
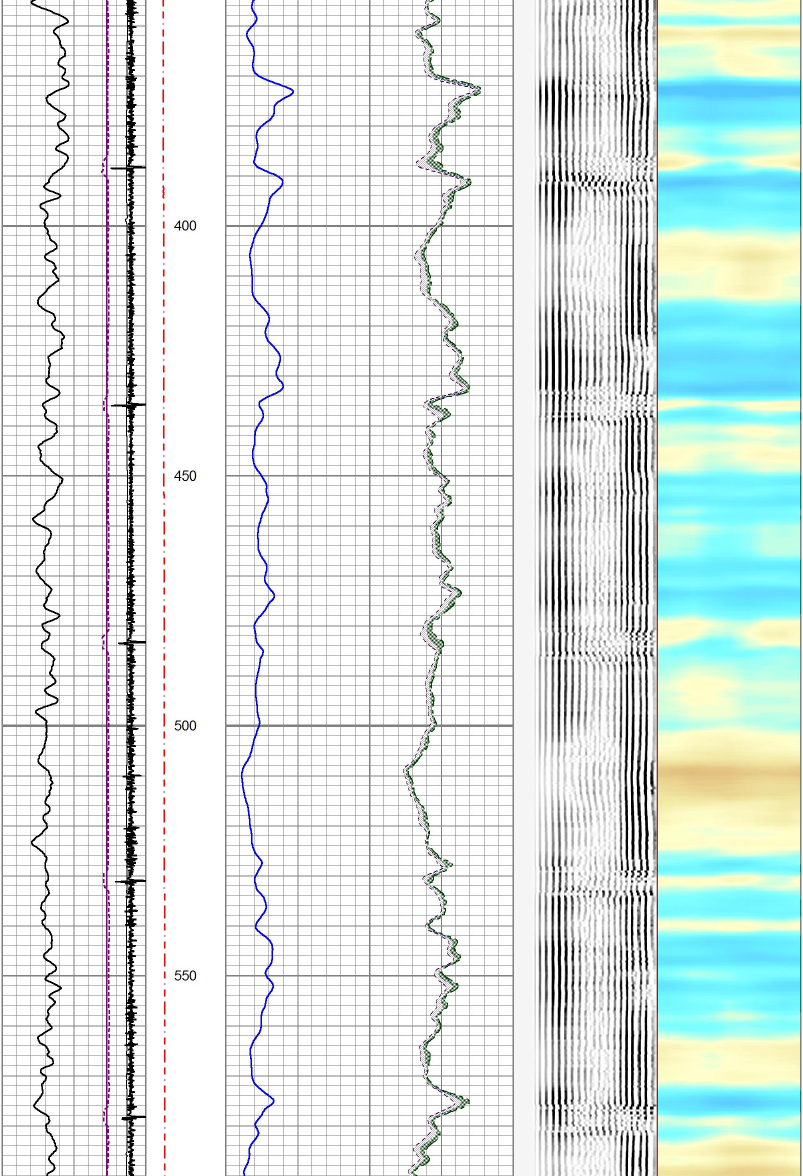
MAIN PASS - Ran with 500 PSI

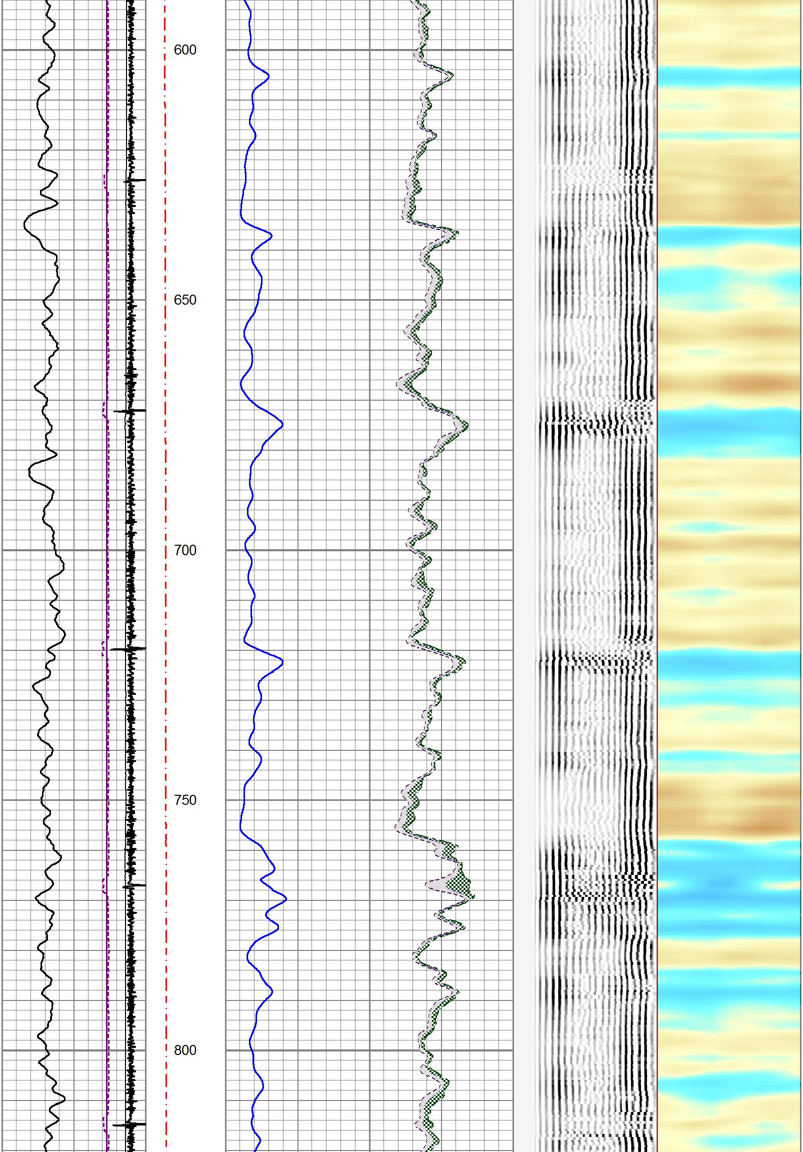
5 in / 100 ft

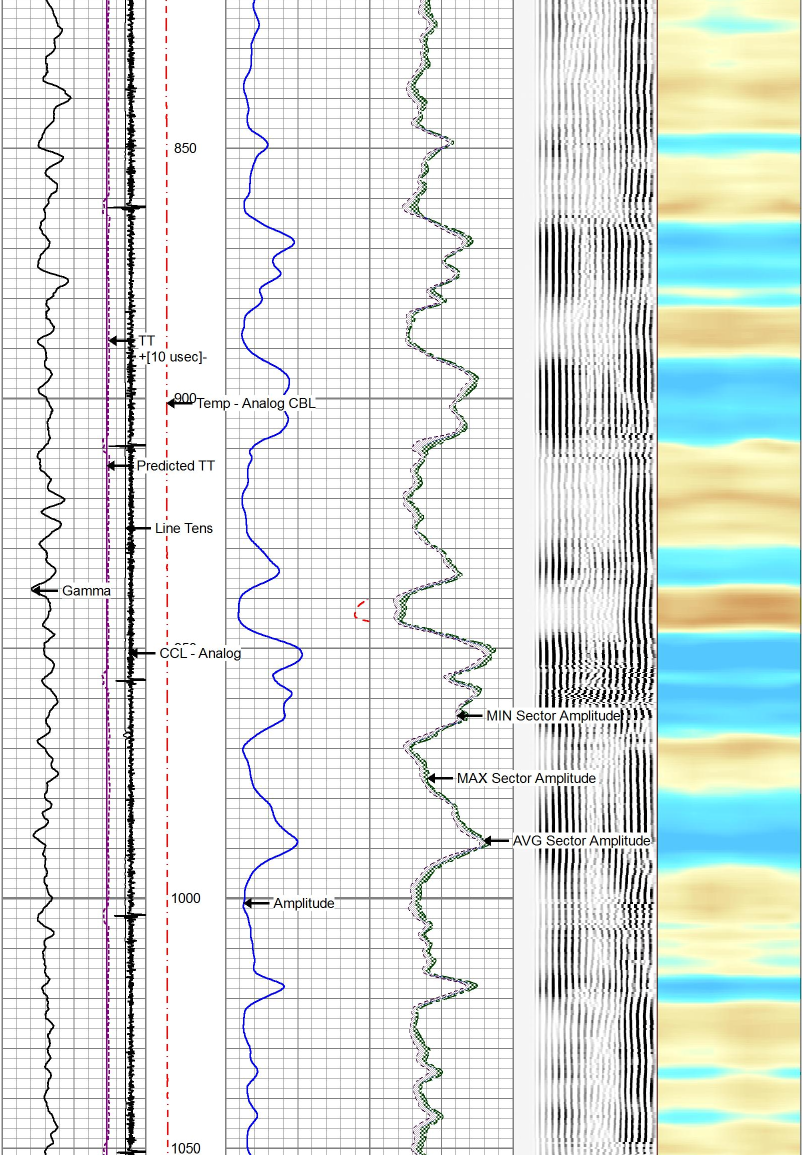
Database File	2018_02_16_conoco_state_la_plata_5_65_13_15_3dh_cbl\2018_02_16_conoco_state_la_plata_5_65_13_
Dataset Pathname	MAINPASS
Presentation Format	rcbl_8s
Dataset Creation	Fri Feb 16 14:23:43 2018
Charted by	Depth in Feet scaled 1:240

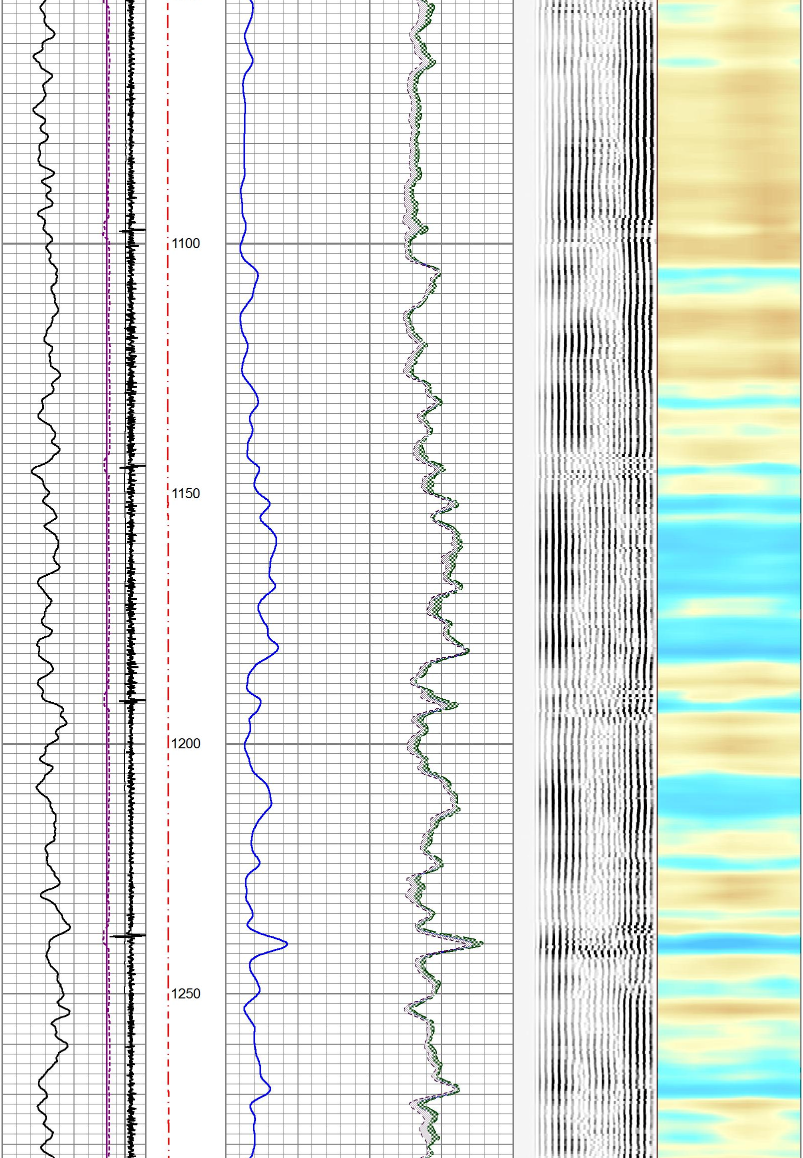


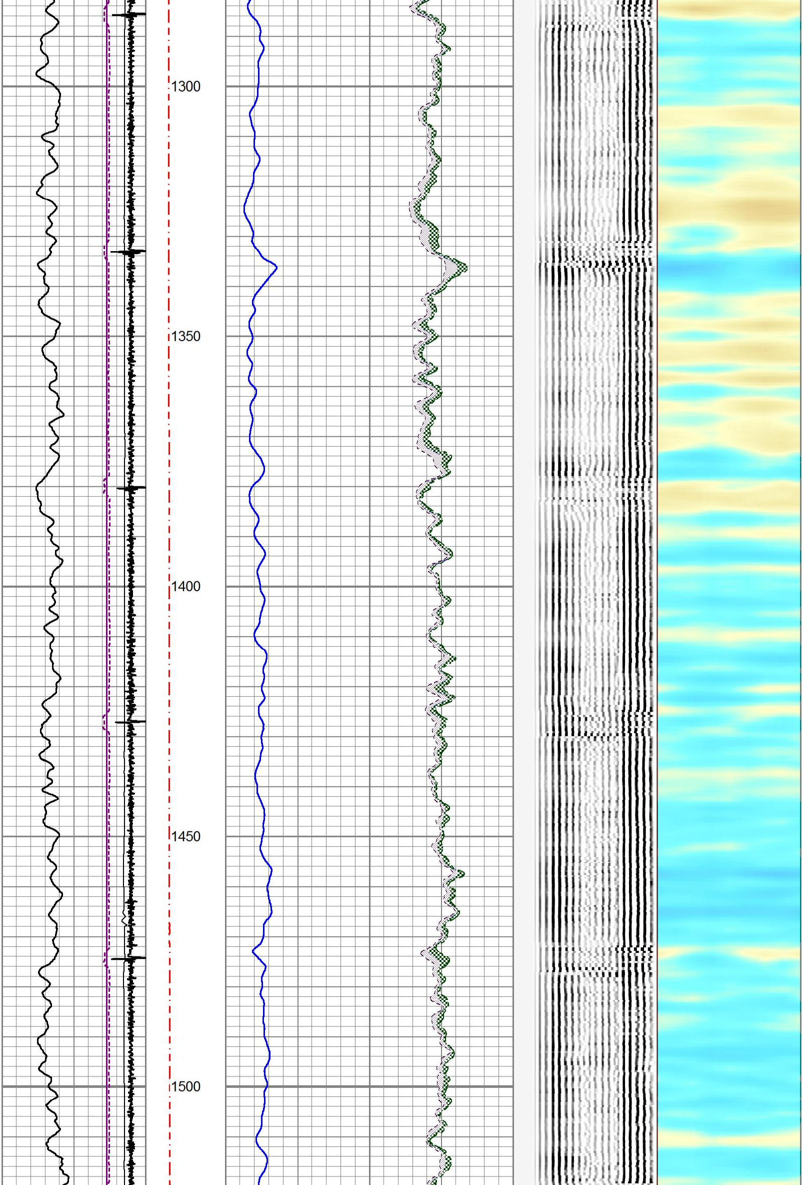


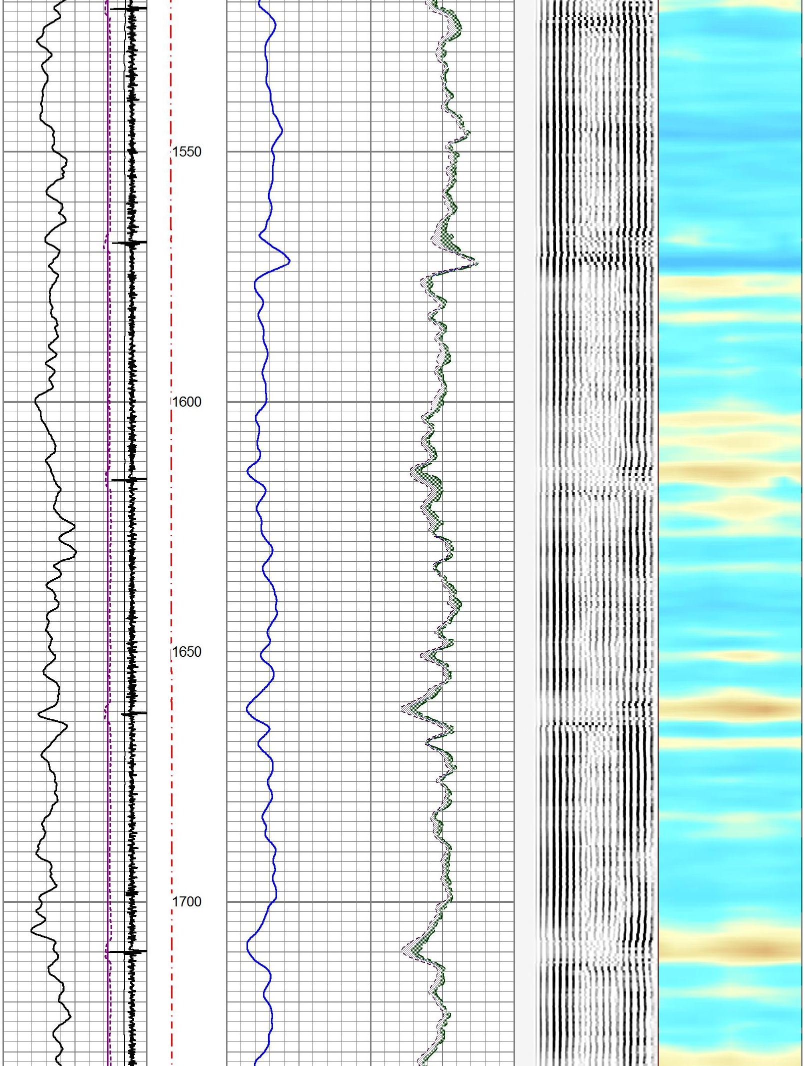


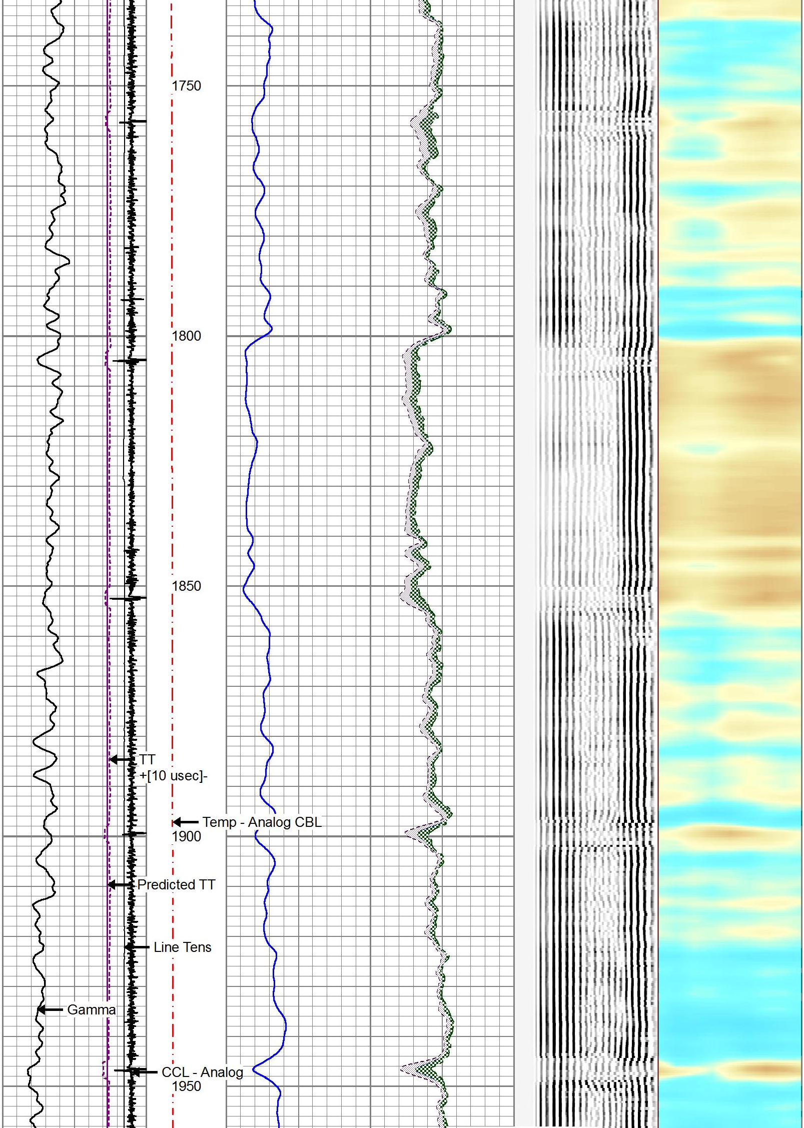


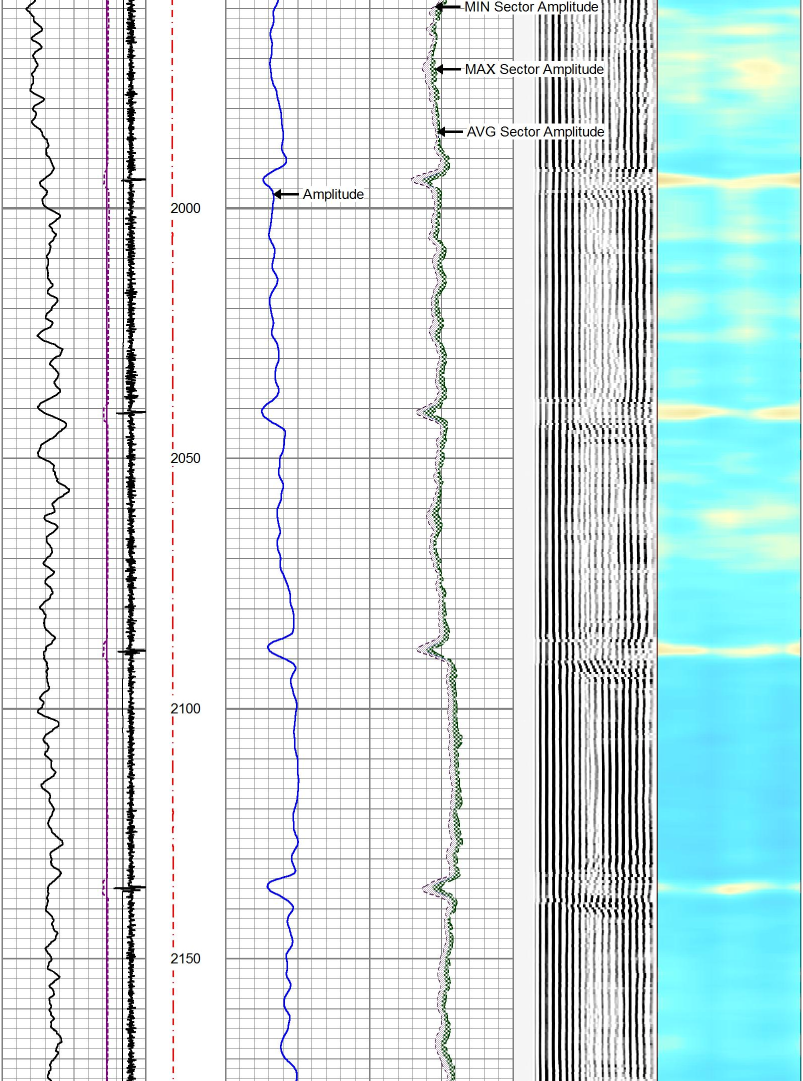


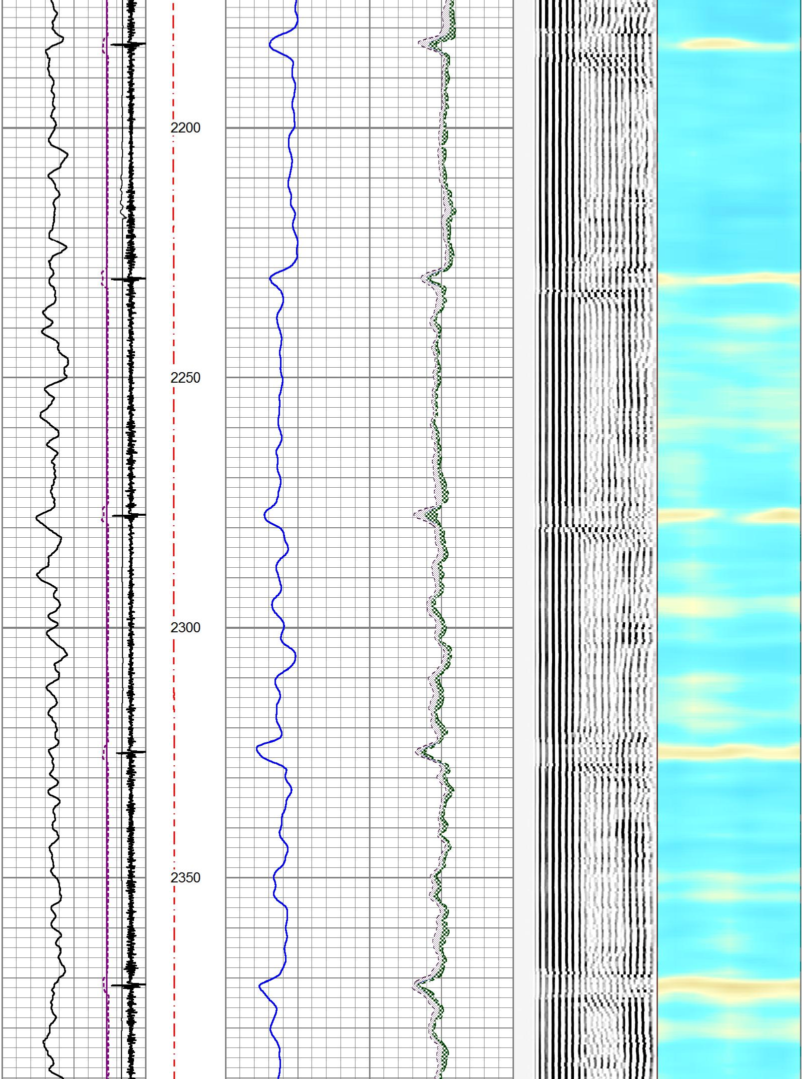


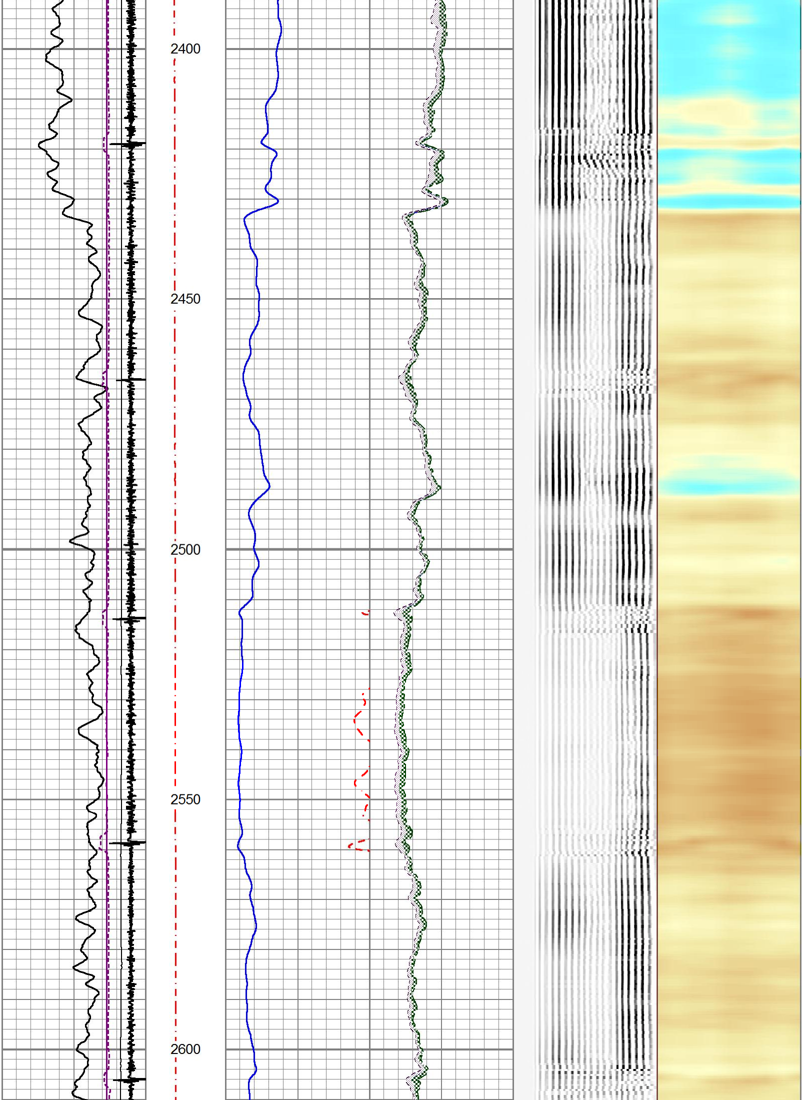


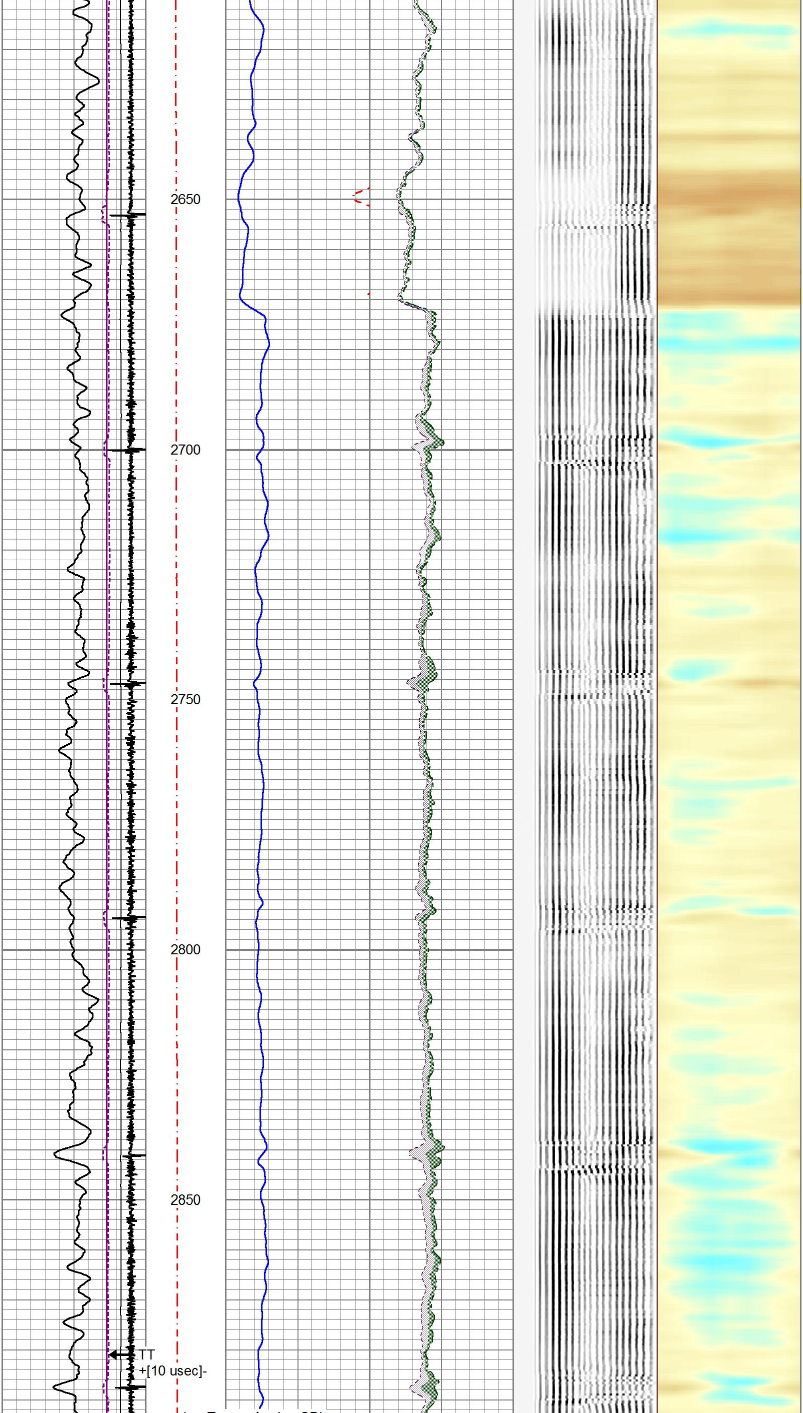












Temp - Analog CBL
Predicted TT
Line Tens
Gamma
CCL - Analog
Amplitude
MIN Sector Amplitude
MAX Sector Amplitude
AVG Sector Amplitude
2950
3000
3050
3100
3150
3200
3250
3300
3350
3400
3450
3500
3550
3600
3650
3700
3750
3800
3850
TT
(10 usec)
Temp - Analog CBL
Predicted TT
3900
Line Tens
Gamma
CCL - Analog
Amplitude
MIN Sector Amplitude
MAX Sector Amplitude
AVG Sector Amplitude
Amplitude x10
4000
4050
4100
4150
4200
4250
4300
4350
4400
4450
4500
4550
4600
4650
4700
4750
4800
4850
TT
(10 usec)
Temp - Analog CBL
Predicted TT
4900
Line Tens
Gamma
CCL - Analog
Amplitude
MIN Sector Amplitude
MAX Sector Amplitude
AVG Sector Amplitude
Amplitude x10
5000
5050
5100
5150
5200
5250
5300
5350
5400
5450
5500
5550
5600
5650
5700
5750
5800
5850
Temp - Analog CBL
Predicted TT
5900
Line Tens
Gamma
CCL - Analog
Amplitude
MIN Sector Amplitude
MAX Sector Amplitude
AVG Sector Amplitude
Amplitude x10
6000
6050
6100
6150
6200
6250
6300
6350
6400
6450
6500
6550
6600
6650
6700
6750
6800
6850
TT
(10 usec)
Temp - Analog CBL

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MAIN PASS - Ran with 500 PSI

5 in / 100 ft

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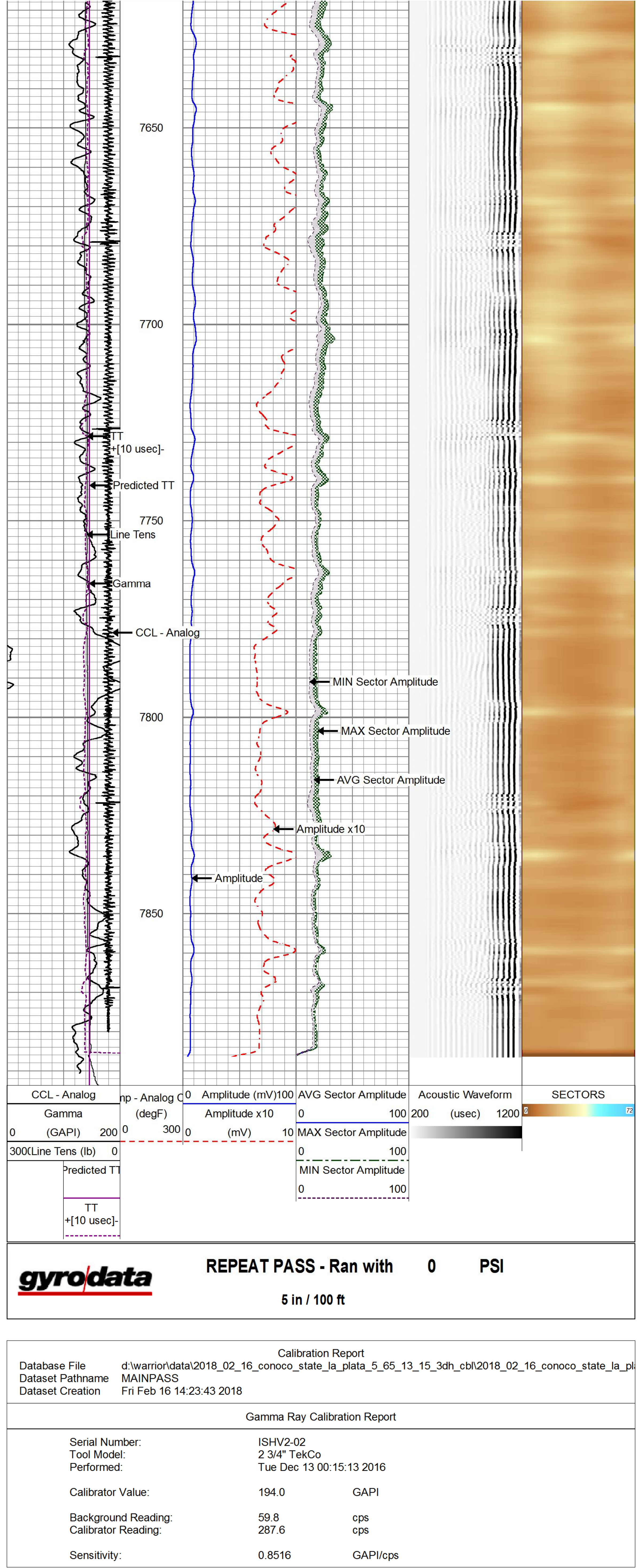
REPEAT PASS - Ran with 0 PSI

5 in / 100 ft

Database File 2018_02_16_conoco_state_la_plata_5_65_13_15_3dh_cbl\2018_02_16_conoco_state_la_plata_5_65_13
Dataset Pathname REPEATPASS
Presentation Format rcbl_8s
Dataset Creation Fri Feb 16 14:32:34 2018
Charted by Depth in Feet scaled 1:240



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REPEAT PASS - Ran with 0 PSI

5 in / 100 ft

Calibration Report

Database File d:\warrior\data\2018_02_16_conoco_state_la_plata_5_65_13_15_3dh_cbl\2018_02_16_conoco_state_la_pl
Dataset Pathname MAINPASS
Dataset Creation Fri Feb 16 14:23:43 2018

Gamma Ray Calibration Report

Serial Number: ISHV2-02
Tool Model: 2 3/4" TekCo
Performed: Tue Dec 13 00:15:13 2016

Calibrator Value: 194.0 GAPI

Background Reading: 59.8 cps
Calibrator Reading: 287.6 cps

Sensitivity: 0.8516 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: 370.053 ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.010	0.511	2.600	71.921	133.053	3.899
CAL	-0.010	0.233				
5'	-0.009	0.708	2.600	71.921	96.793	3.430
SUM						
S1	0.001	0.611	0.000	100.000	164.159	-0.223
S2	-0.002	0.594	0.000	100.000	167.687	0.415
S3	-0.003	0.599	0.000	100.000	166.213	0.502
S4	-0.002	0.521	0.000	100.000	191.166	0.350
S5	-0.000	0.499	0.000	100.000	200.457	0.041
S6	0.001	0.483	0.000	100.000	207.758	-0.282
S7	0.003	0.522	0.000	100.000	192.476	-0.516
S8	0.003	0.551	0.000	100.000	182.552	-0.526

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	0.233	1.000	0.000

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

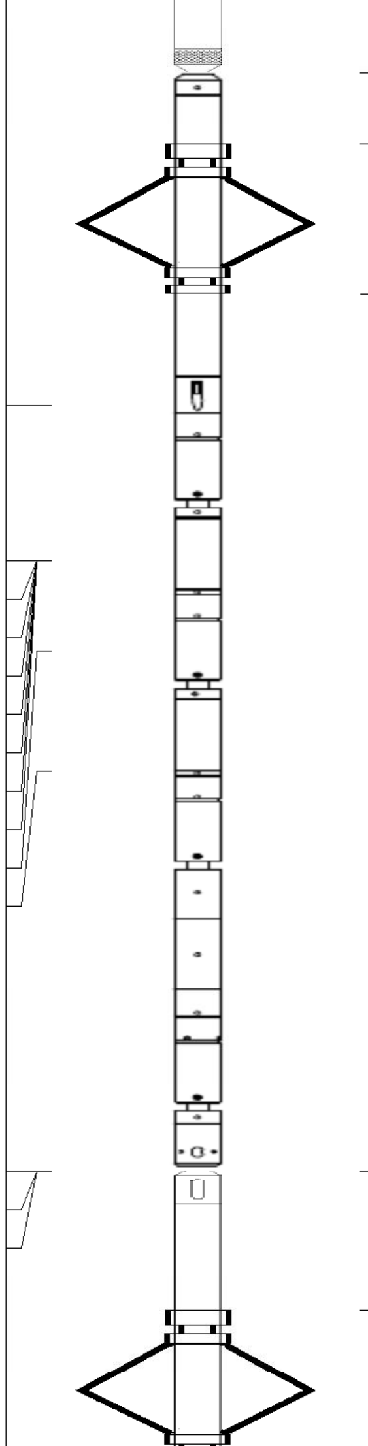
	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.000	0.000	0.000
5'	0.000	0.000	0.000
SUM			
S1	0.000	0.000	0.000
S2	0.000	0.000	0.000
S3	0.000	0.000	0.000
S4	0.000	0.000	0.000
S5	0.000	0.000	0.000
S6	0.000	0.000	0.000
S7	0.000	0.000	0.000
S8	0.000	0.000	0.000

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	13.50		CCL_Log-2 3/4" TekCo (IS2T1-09)	1.83	2.75	33.00
			Antelope-Overbody	1.25	2.75	
TEMP	10.05					
WVFS8	8.76					
WVFS7	8.76					
WVFS6	8.76					
WVFS5	8.76		RBTA-2 3/4" RIB Analog (IPPO2-01)	9.13	2.75	102.00
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					
			Antelope-Overbody	1.25	2.75	
			GR_Log-2 3/4" TekCo (ISHV2-02)	3.68	2.75	47.00
GR	1.04					
LOCTIM	0.00					
UTCTIM	0.00					

Dataset: 2018_02_16_conoco_state_la_plata_5_65_13_15_3dh_cbl.db: field/well/run1/MAINPASS
Total length: 15.67 ft
Total weight: 185.60 lb
O.D.: 2.75 in

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Company	Conoco Phillips
Well	State La Plata 5-65 13-15 3DH
Field	------
County	Arapahoe
State	CO
Country	U.S.A.