gyrodata

CEMENT BOND LOG

Company	Extraction Oil and Gas
Well	Launer 3
Field	Wattenberg
County	Weld
State	CO

Company Extraction Oil and Gas
Well Launer 3
Field Wattenberg
County Weld **State** CO

API # : 05-123-45175
Location: 861' FSL & 301' FEL
Lat: 40.540258
Long: -104.852038

SEC: 26 TWP: 7N RGE: 67W

Other Services

Elevation
K.B. 4951'
D.F. -----
G.L. 4926'

Permanent Datum: Ground Level Elevation: 4926'
Log Measured From: Kelly Bushing , 25 ft. above Permanent Datum.
Drilling Measured From: Kelly Bushing

Date	29 Dec 2017		
Run Number	One		
Plug Back T.D. Driller	-----		
Plug Back T.D. Logger	-----		
Bottom Logged Interval	7340'		
Top Log Interval	Surface		
Type Fluid	-----		
Density / Viscosity	-----		
Max. Recorded Temp.	226°F		
Time Logger on Bottom	12:30		
Equipment Number	GD 114		
Location	Casper, WY		
Recorded By	J. Baker		
Witnessed By			

Casing Record				Tubing Record			
Size	Weight	From	To	Size	Weight	From	To
9 5/8"	36#	Surface	1500'				
5 1/2"	20#	Surface	14,758'				

<<< 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 # : RM1217WLOW856
Your Crew Today: M. Velasquez, P. Murphy
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	508'
40 % Bond	508'
60 % Bond	800'
80 % Bond	2781'
100 % Bond	

Comments

Marker joint located at 6,633'

Thank you for using Gyrodata

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

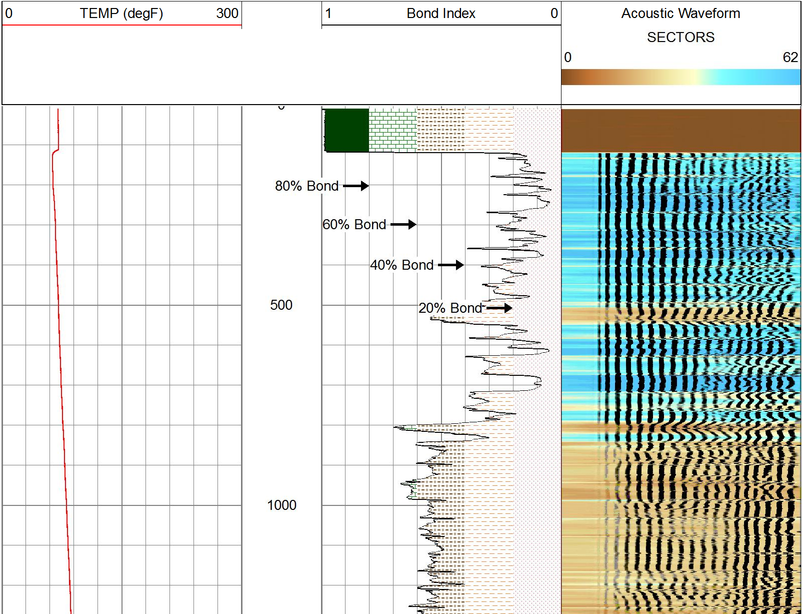
Log Variables

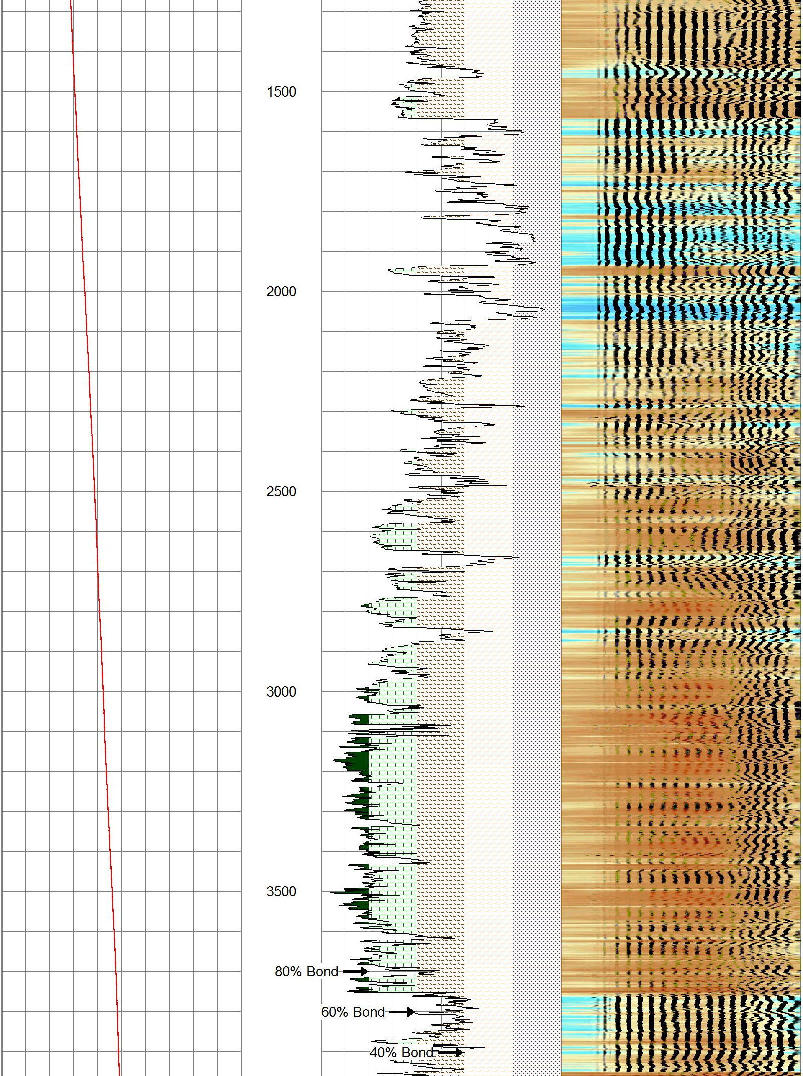
Databasec:\warrior\2017_12_28_extraction_launer_3_cbl\2017_12_28_extraction_launer_3_cbl.db
Dataset field/well/run1/pass1.5/_vars_

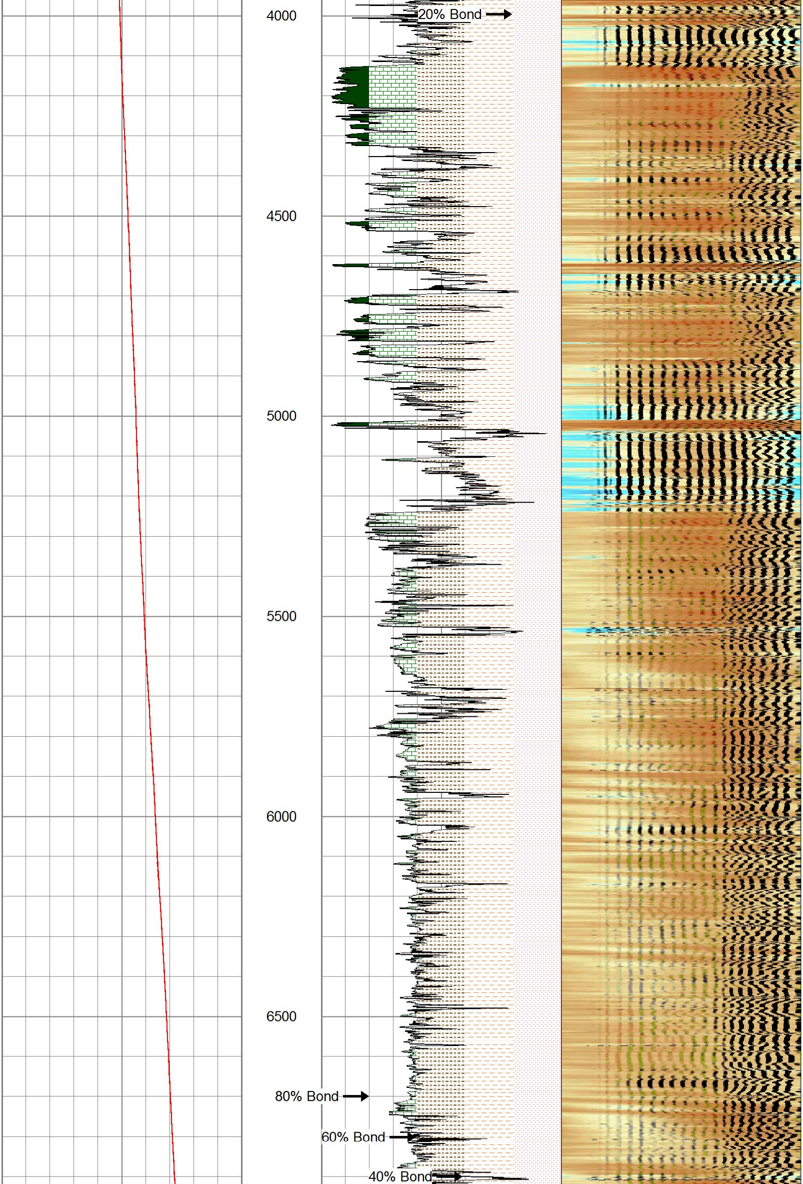
Top - Bottom

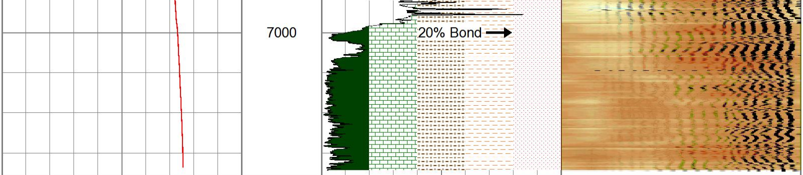
BHTEMP_Src	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	CASEWGHT lb/ft	MAXAMPL mV	MaxAPIID in
TEMP	8.5	226	5.5	0.361	20	71.9	4.923
MaxAPIWall in	MINAMPL mV	MinAPIID in	MINATTN db/ft	PPT usec			
0.361	1.9	4.751	0	240			

Database File	c:\warrior\2017_12_28_extraction_launer_3_cbl\2017_12_28_extraction_launer_3_cbl.db
Dataset Pathname	merge2
Presentation Format	bndindx_msg-sec
Dataset Creation	Fri Dec 29 13:36:12 2017
Charted by	Depth in Feet scaled 1:3000









0 TEMP (degF) 300

1 Bond Index 0

Acoustic Waveform

SECTORS

0 62

gyrodata

MAIN PASS - Ran with 0 PSI

5 in / 100 ft

Database File	c:\warrior\2017_12_28_extraction_launer_3_cbl\2017_12_28_extraction_launer_3_cbl.db
Dataset Pathname	merge1
Presentation Format	rcbl_8s
Dataset Creation	Fri Dec 29 13:35:04 2017
Charted by	Depth in Feet scaled 1:240

CCL - Analog

Gamma

0 (GAPI) 200

Line Tens

3000 (lb) 0

redicted T

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

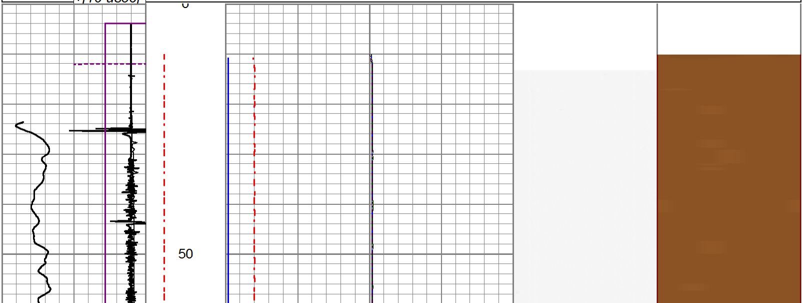
0 100

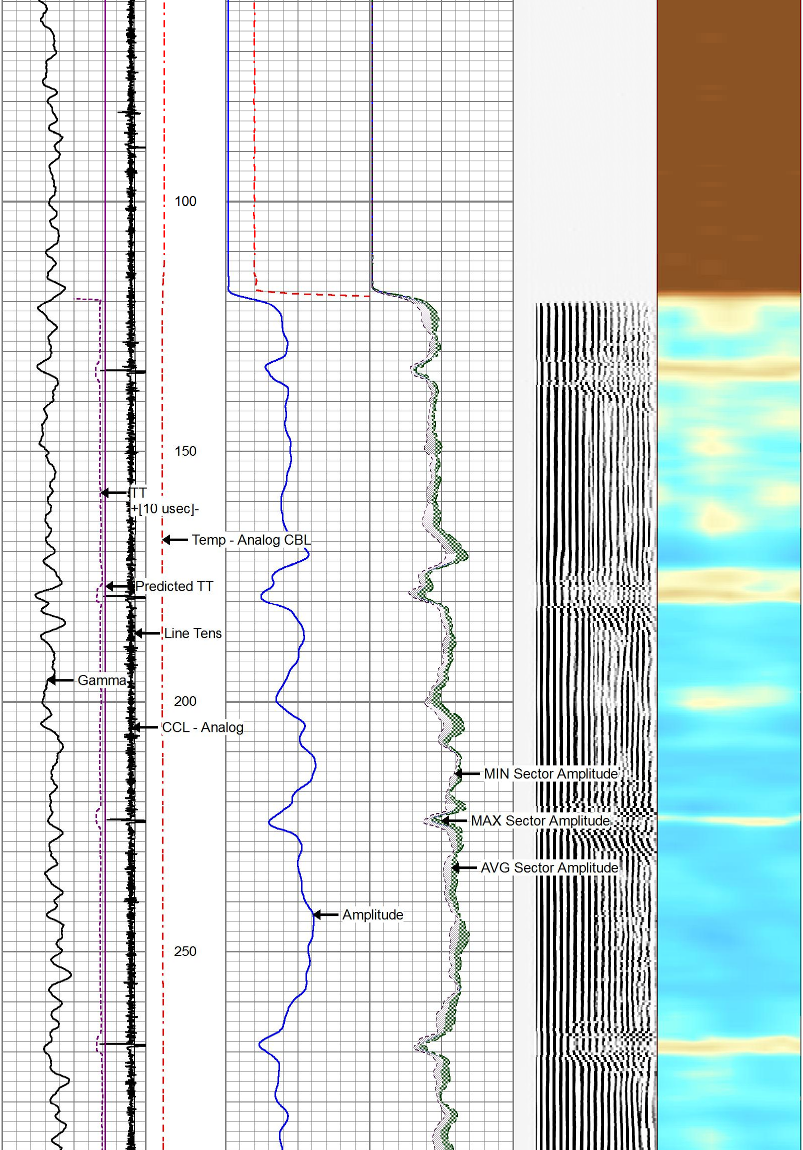
Acoustic Waveform

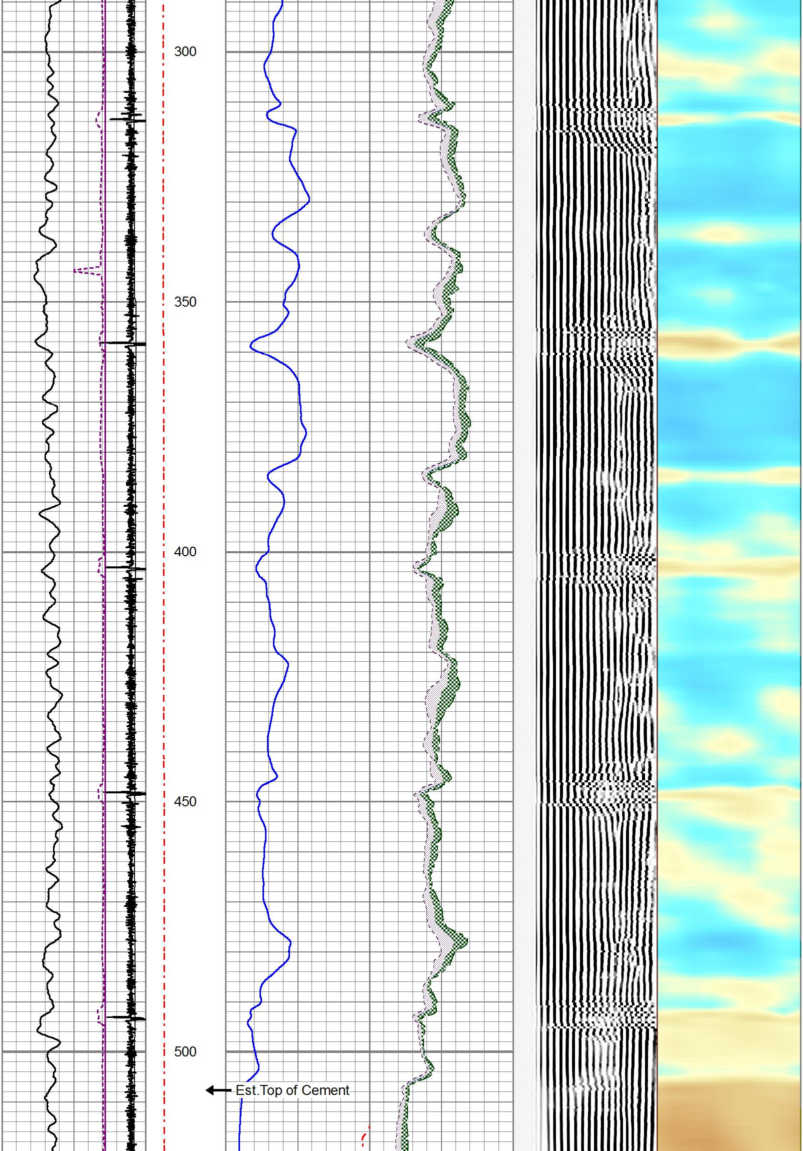
200 1200

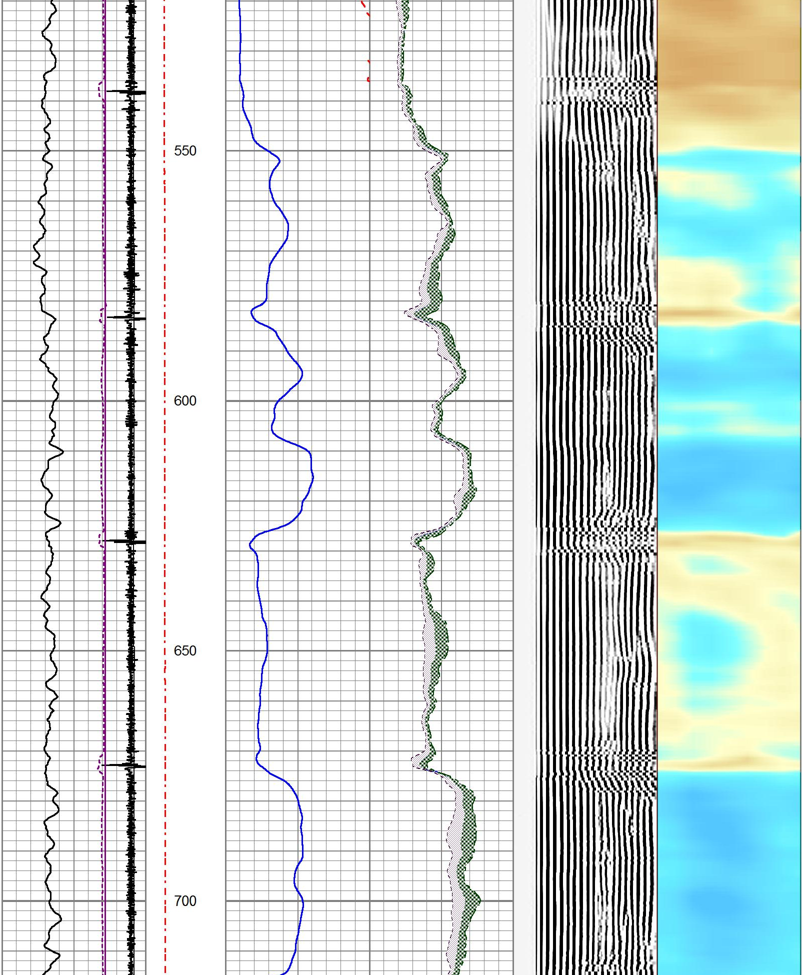
SECTORS

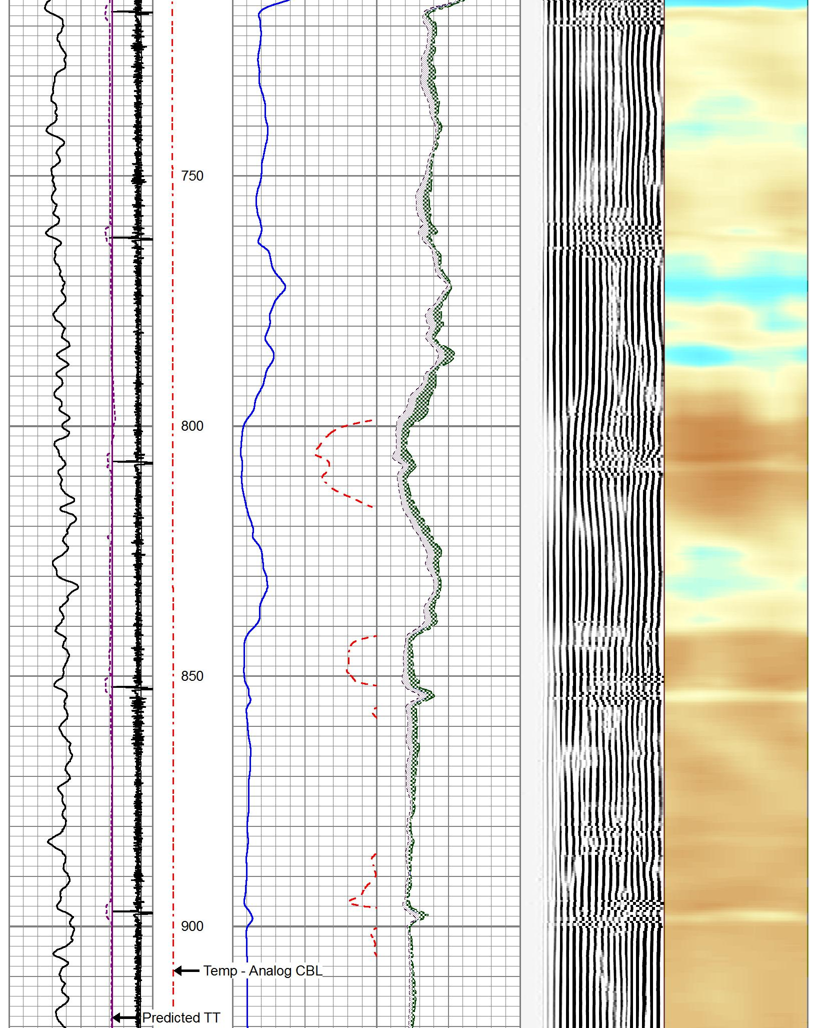
0 72

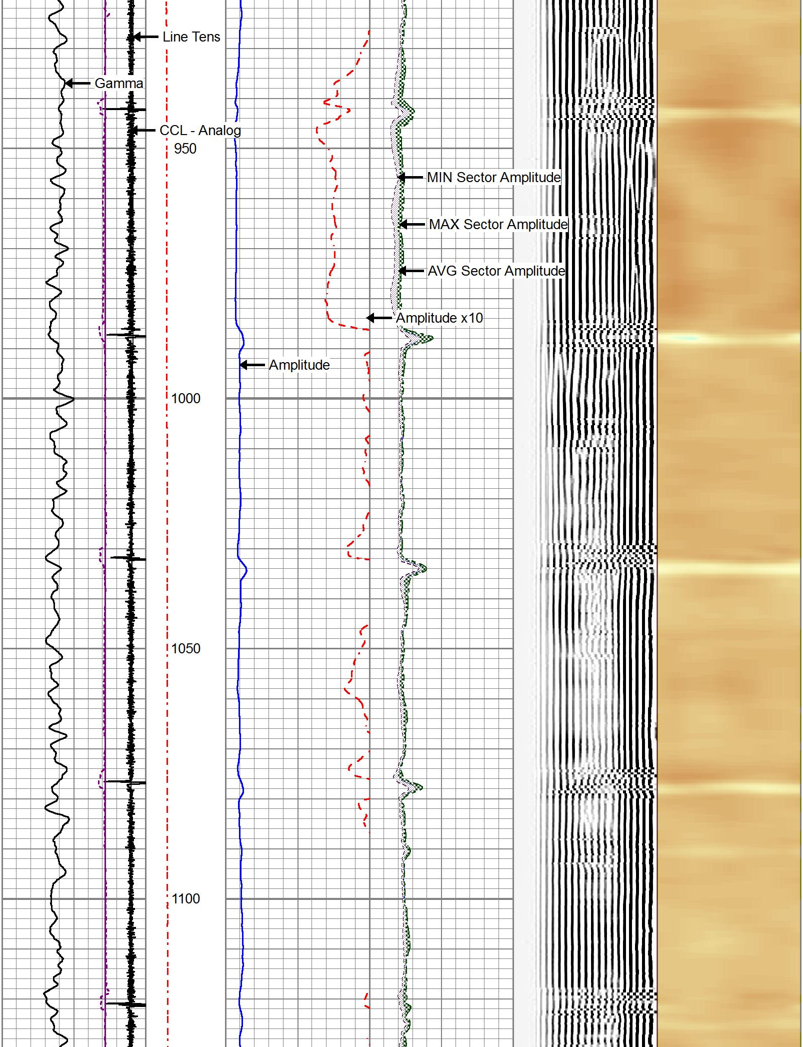


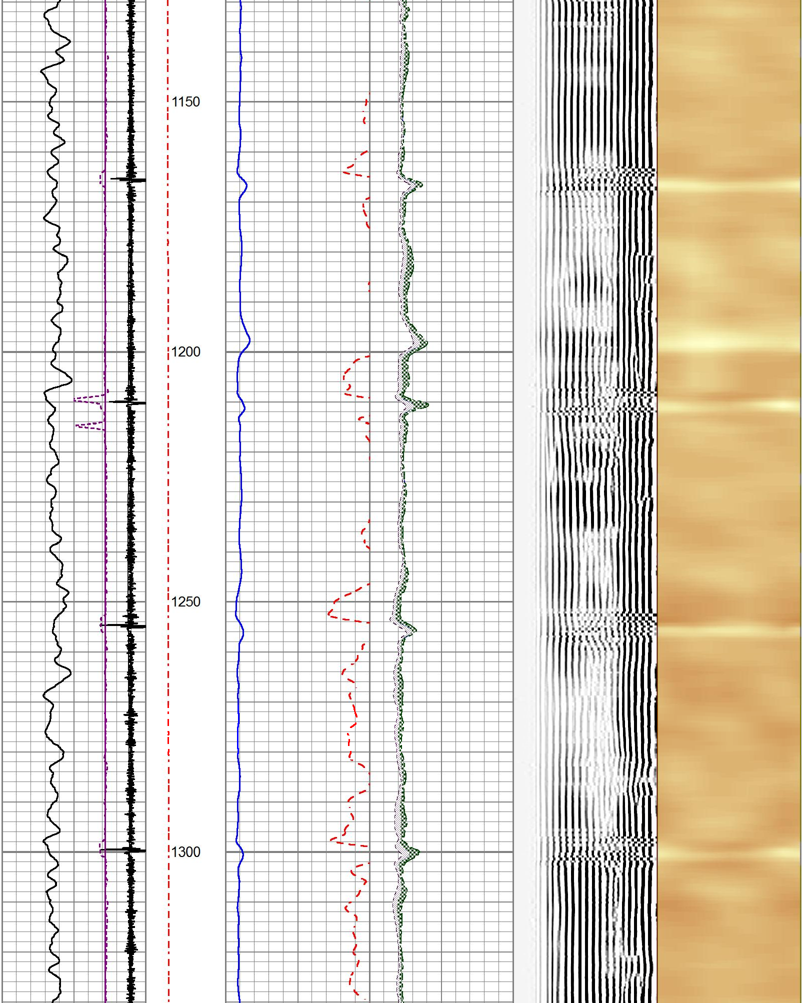


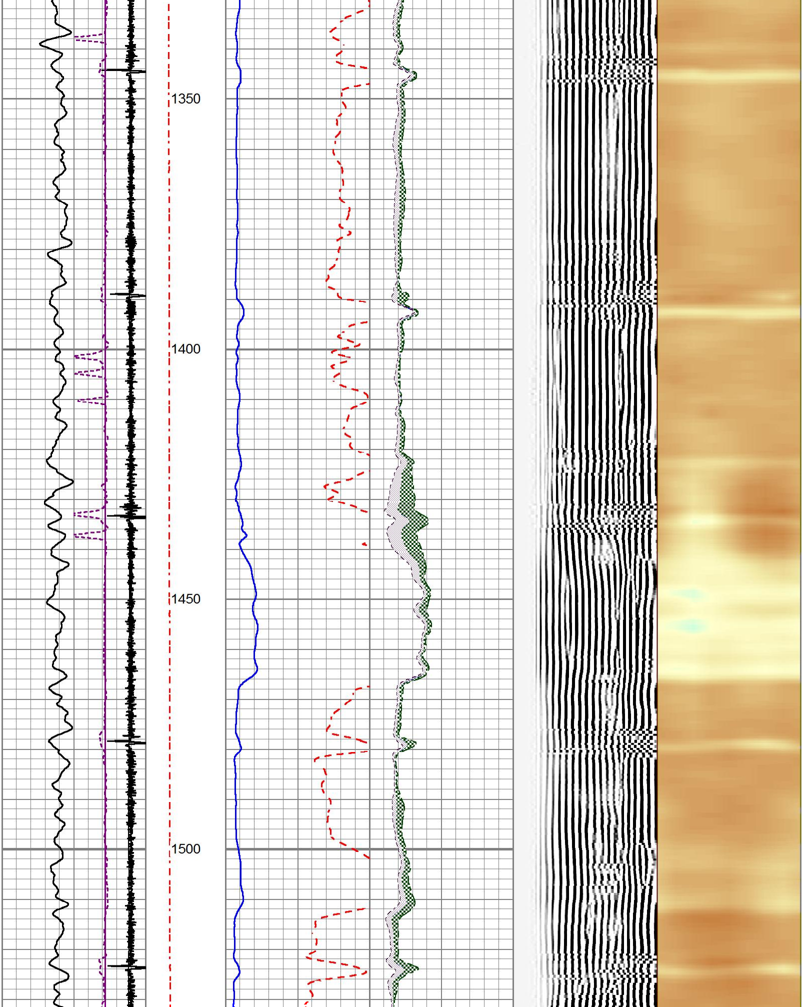


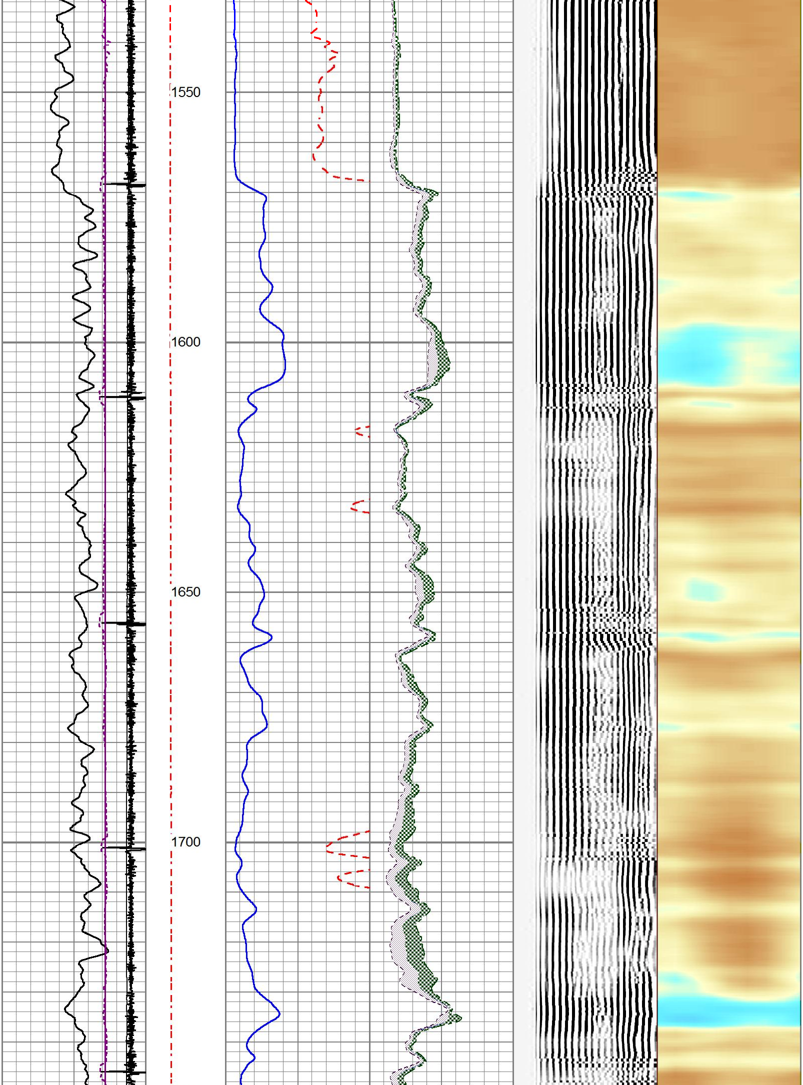


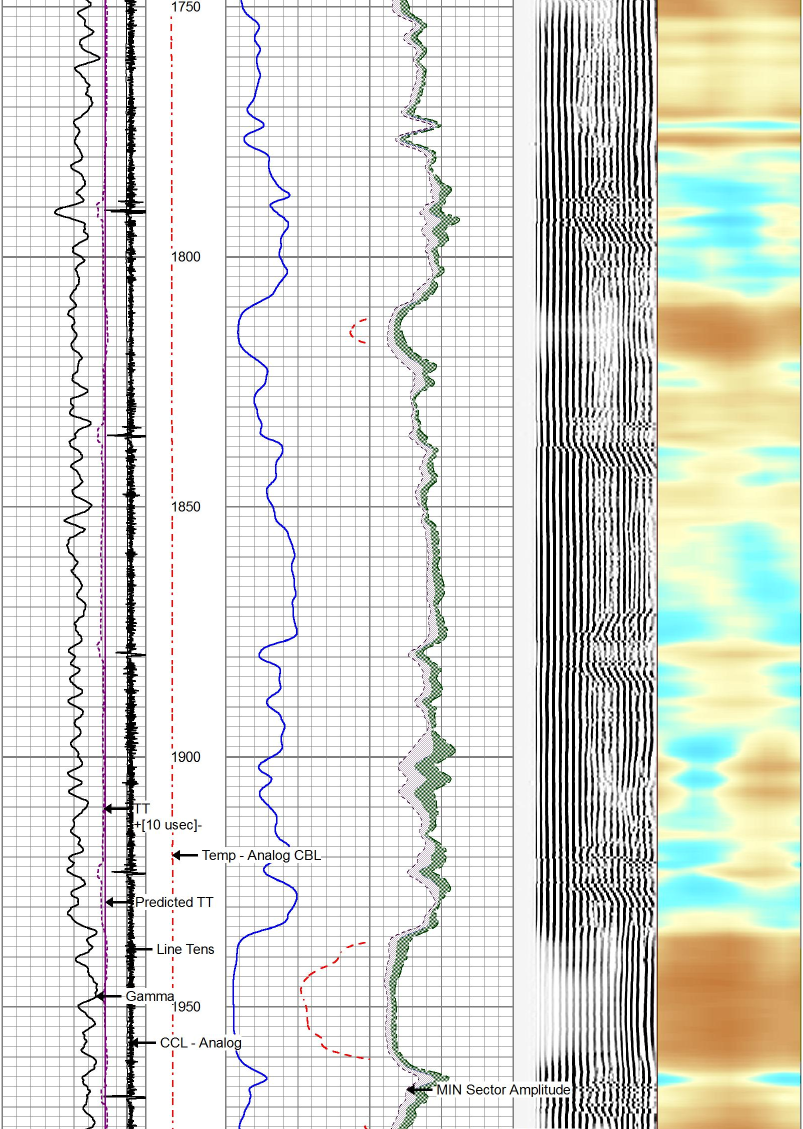


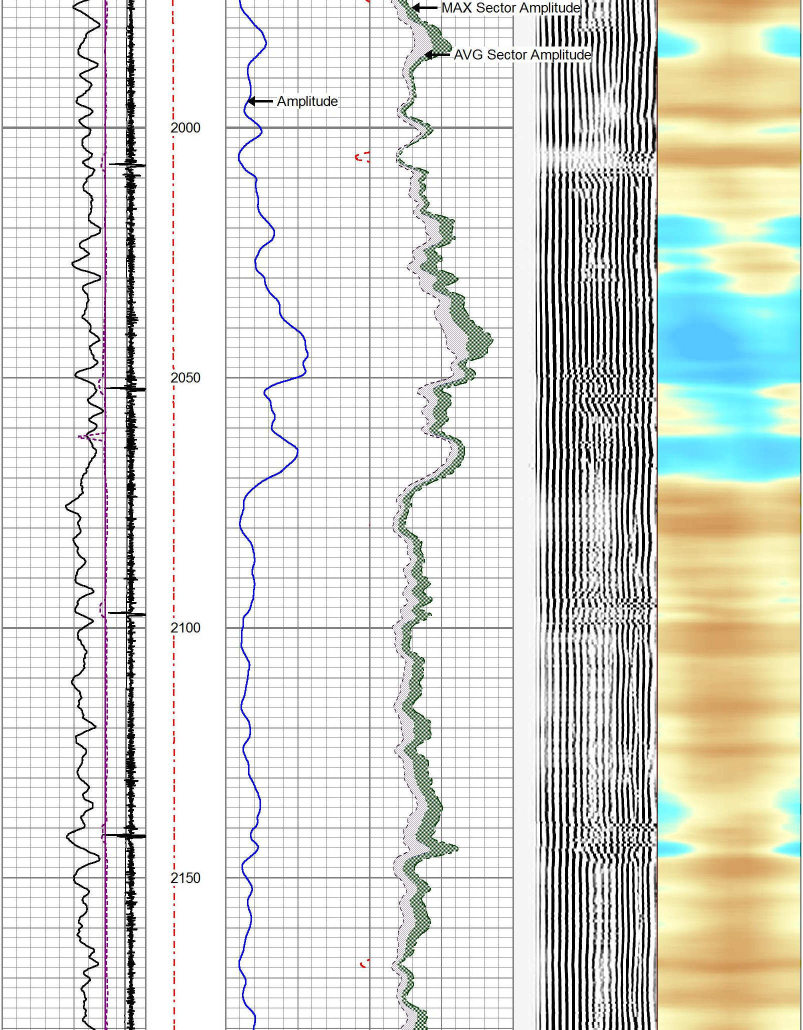


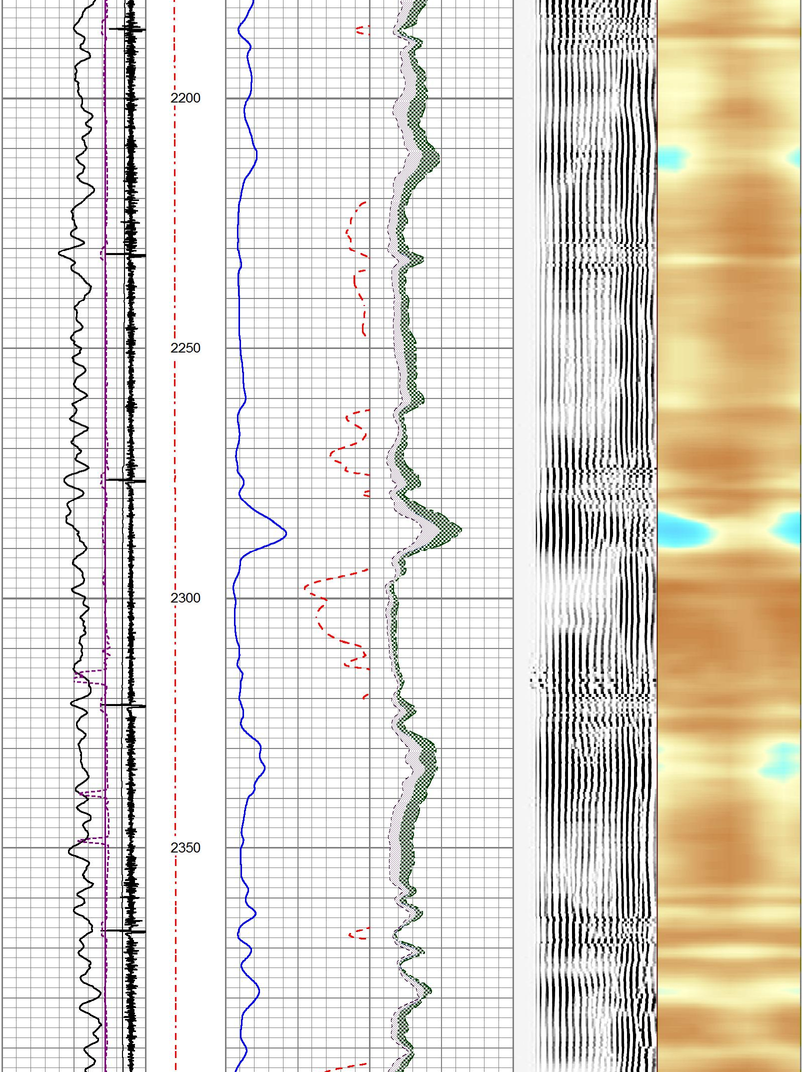


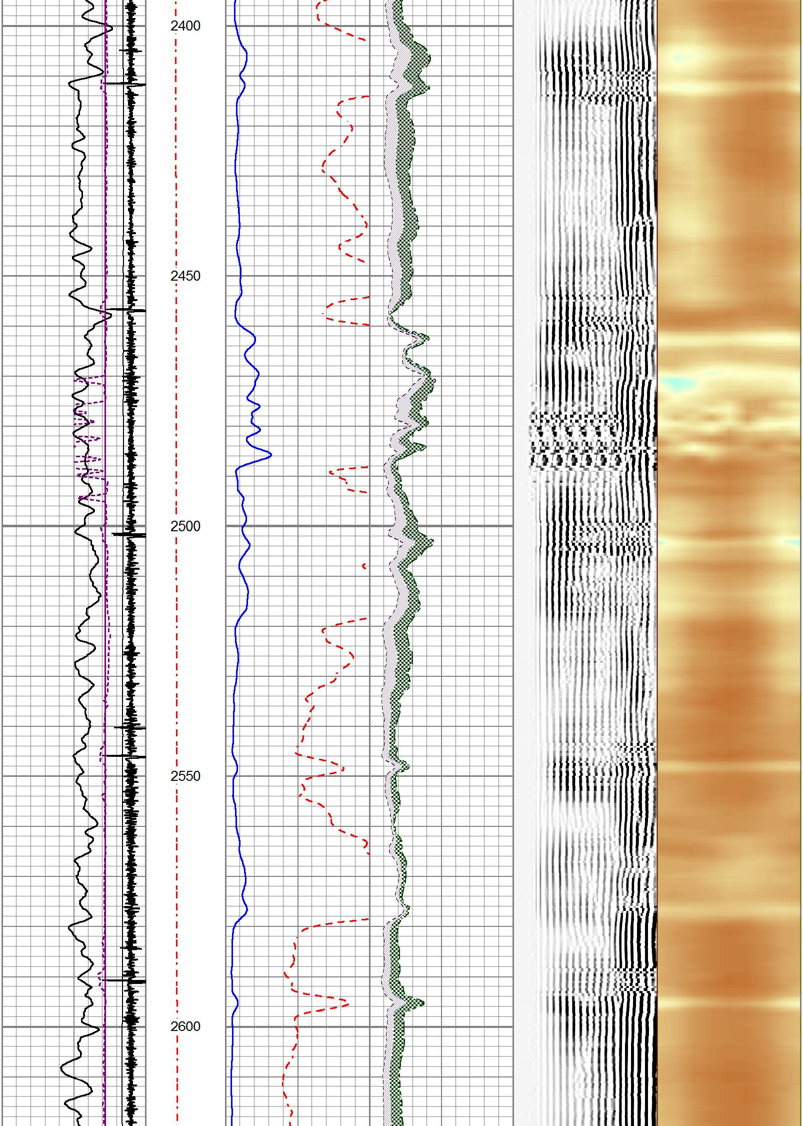


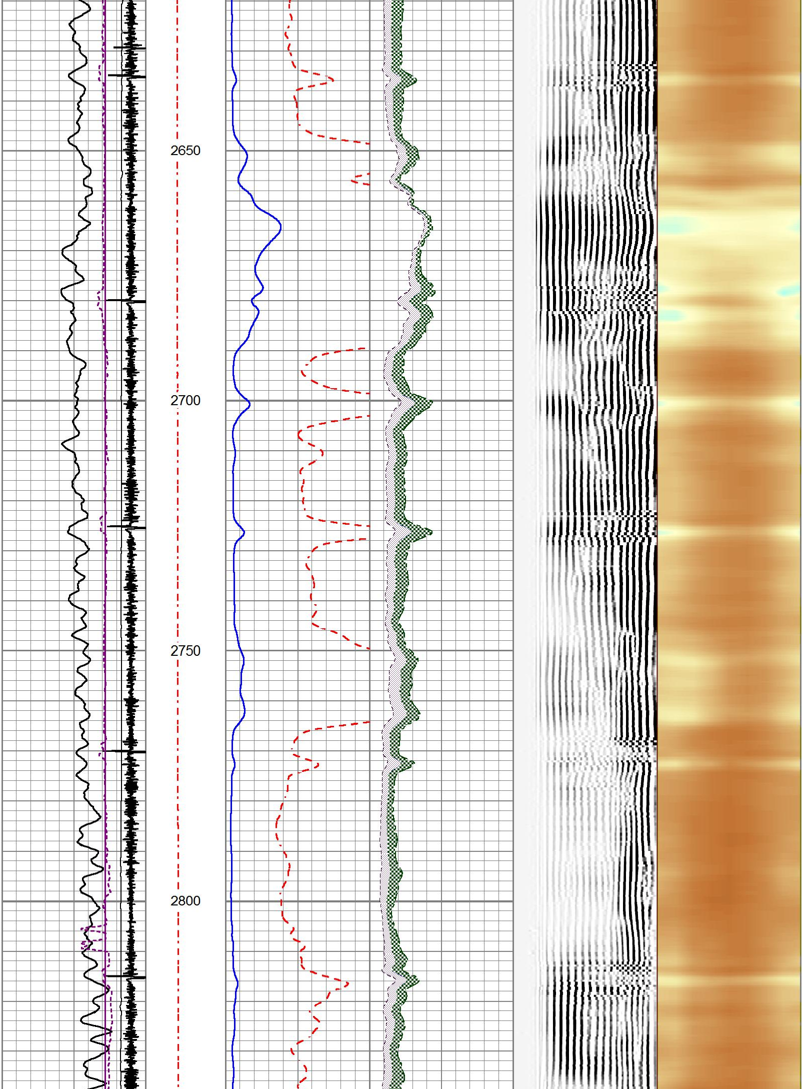


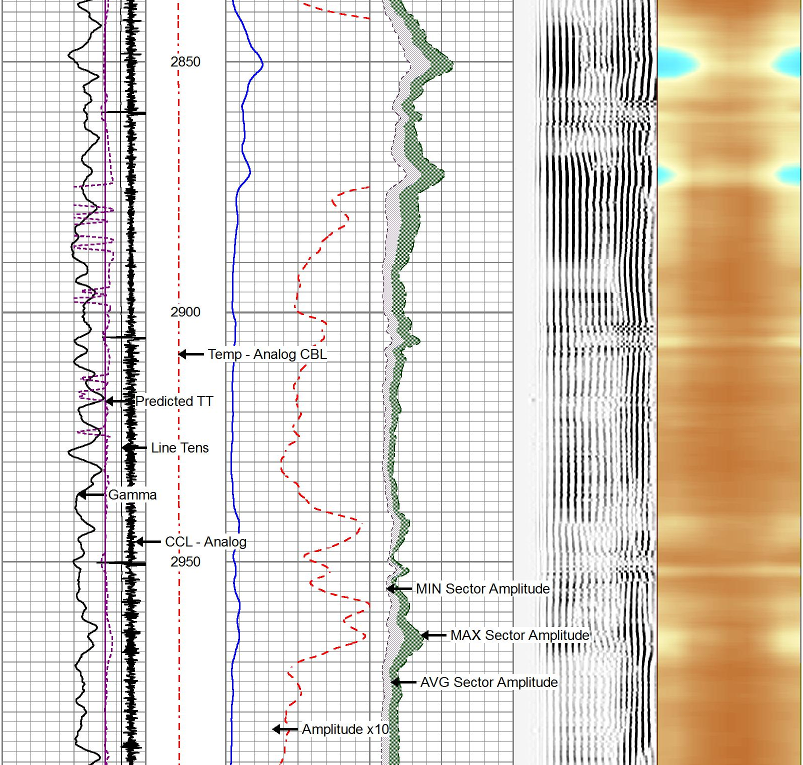


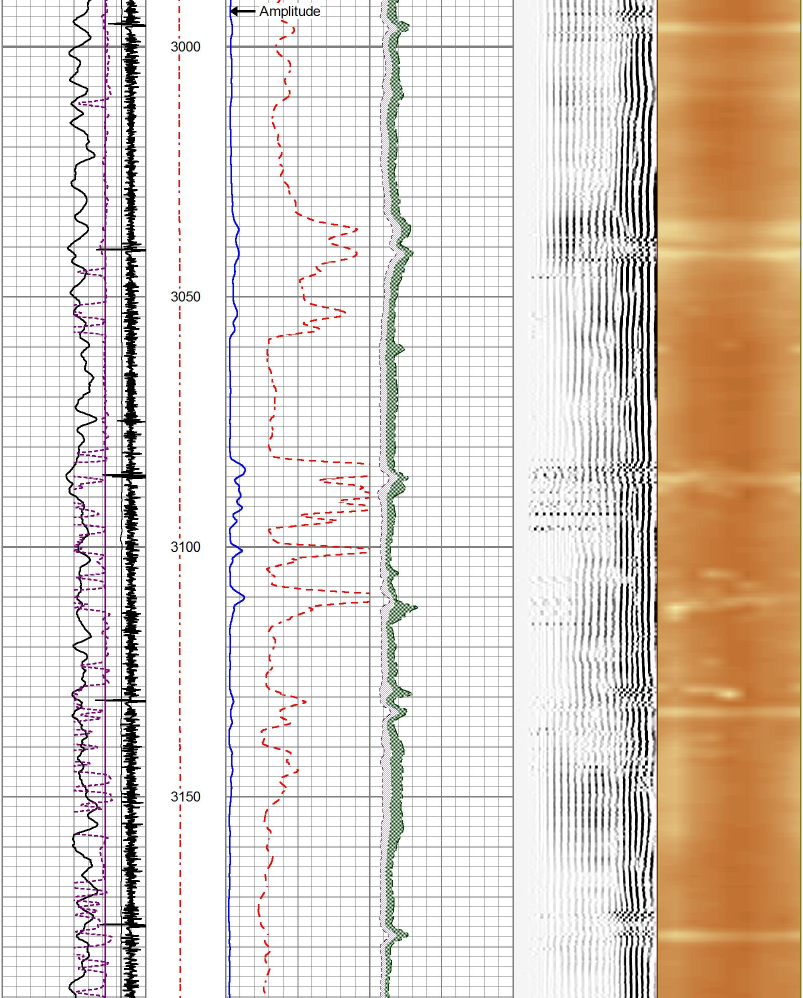








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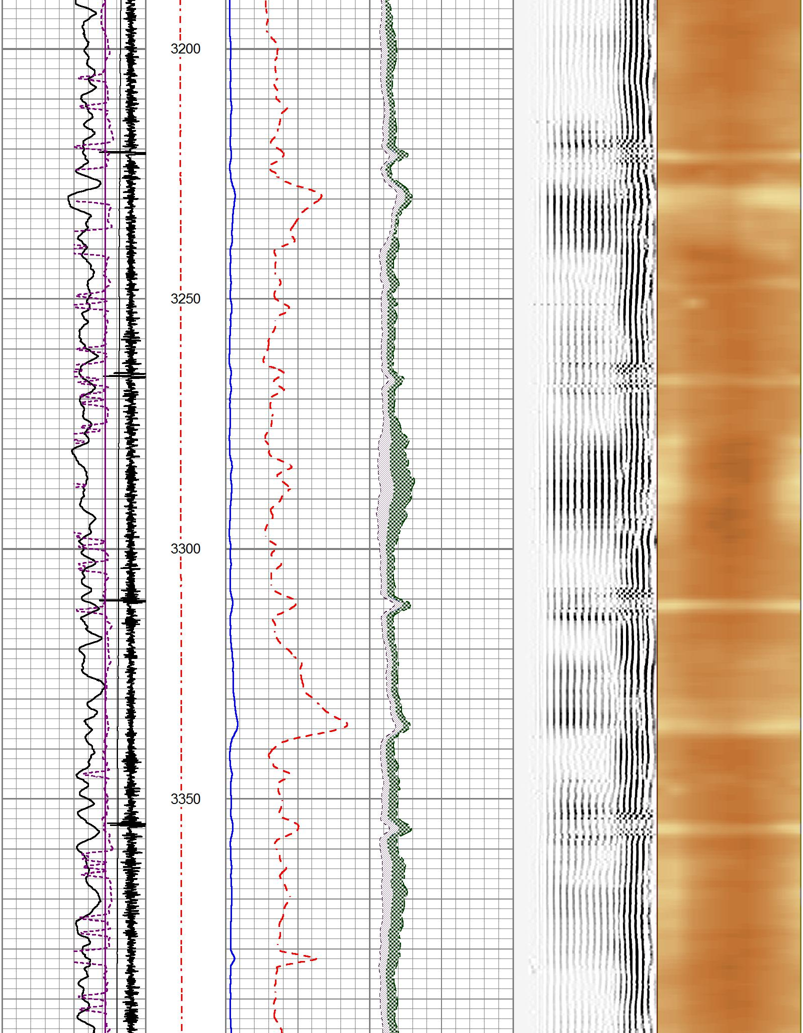
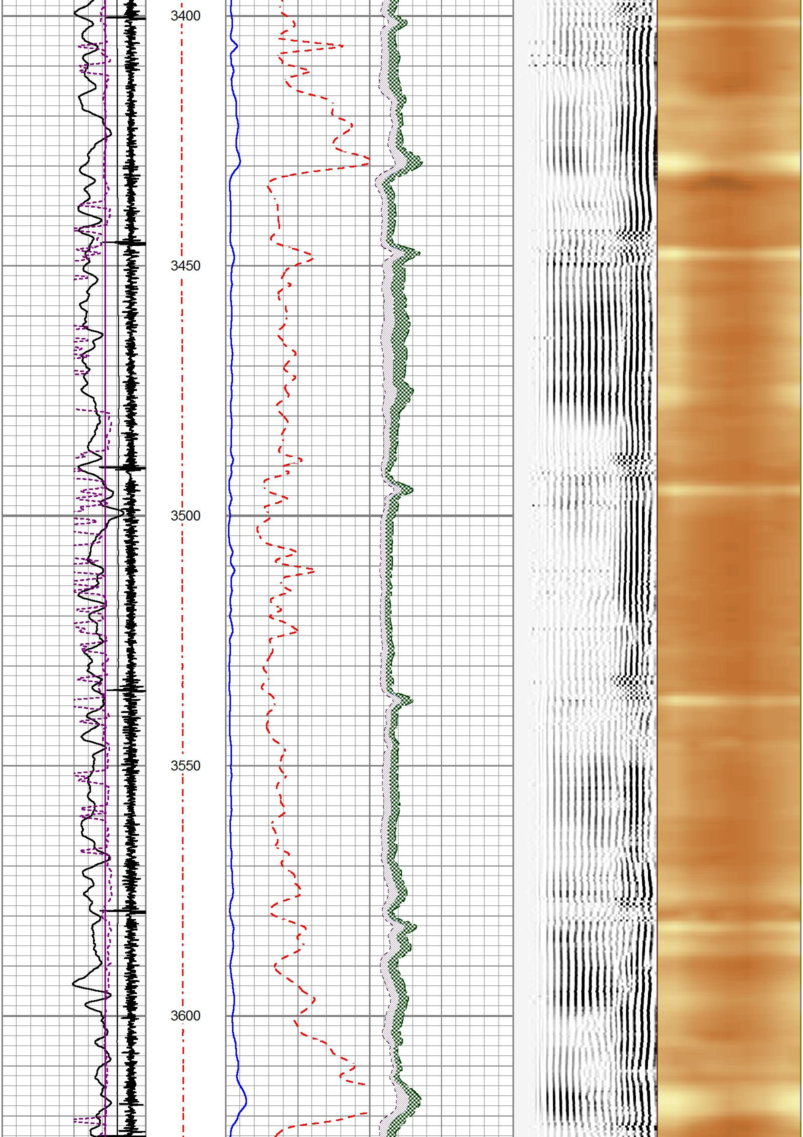
3000
3050
3100
3150


3200
3250
3300
3350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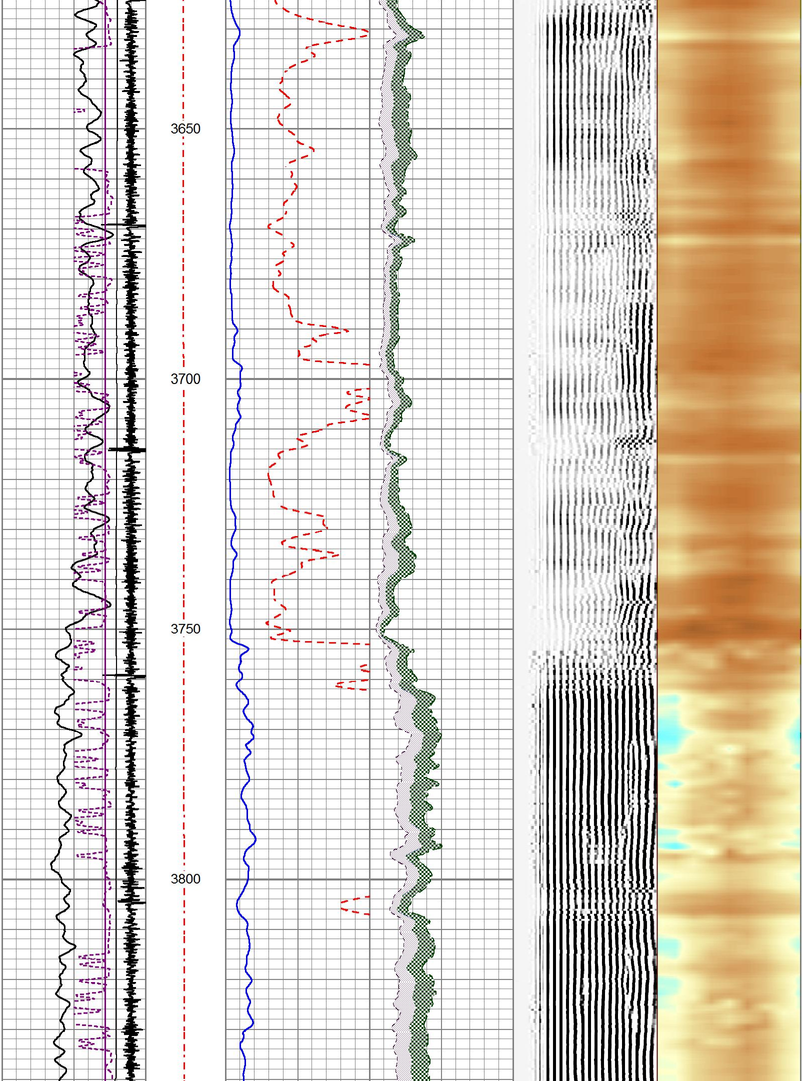
3450
3500
3550
3600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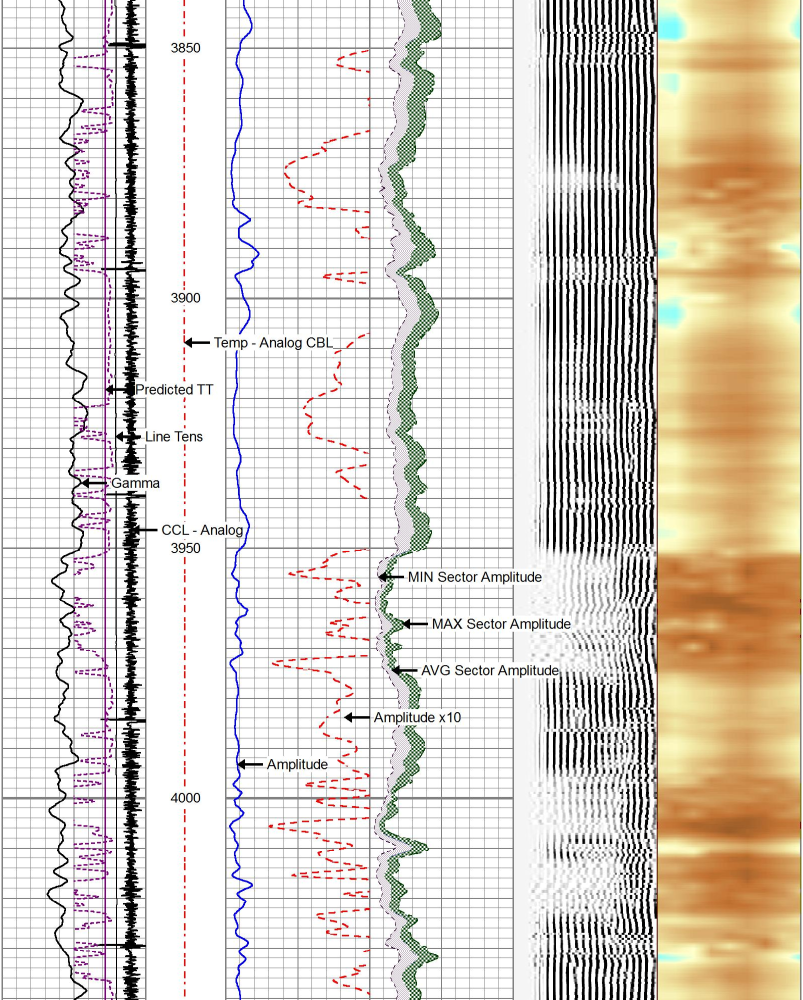
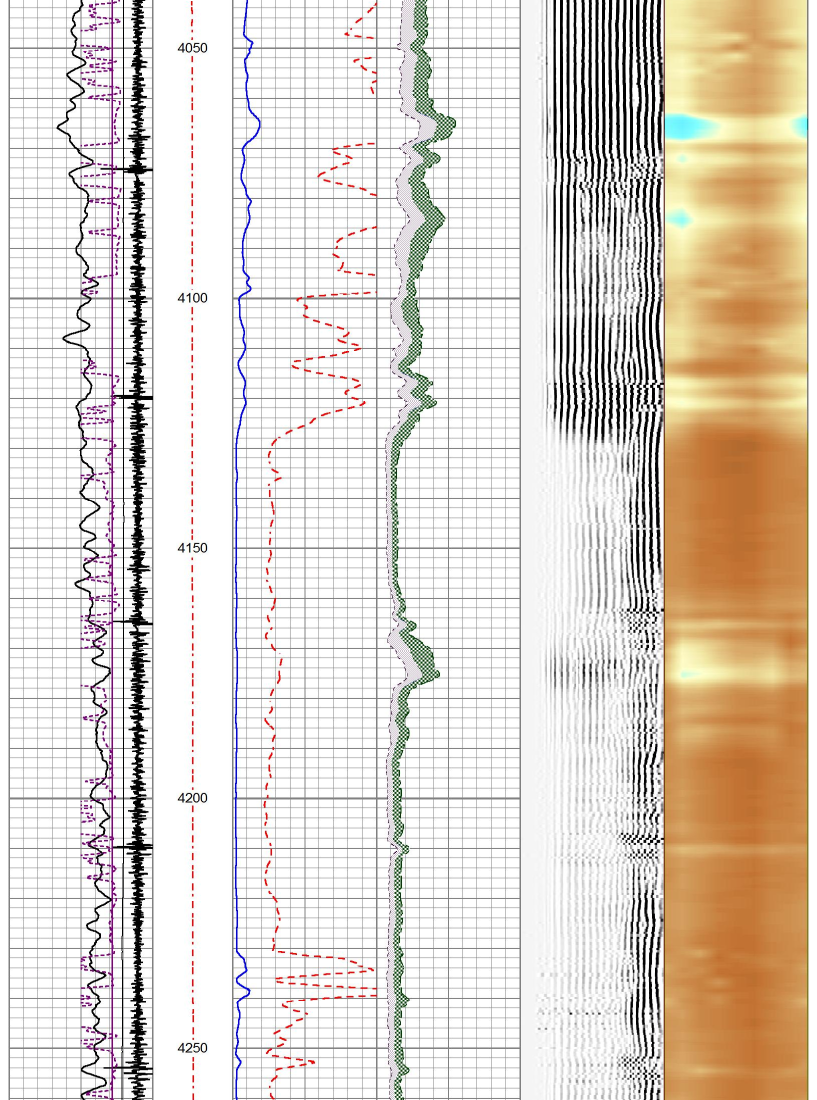
3700
3750
3800


3850
3900
Temp - Analog CBL
Predicted TT
Line Tens
Gamma
CCL - Analog
3950
MIN Sector Amplitude
MAX Sector Amplitude
AVG Sector Amplitude
Amplitude x10
Amplitude
4000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4100
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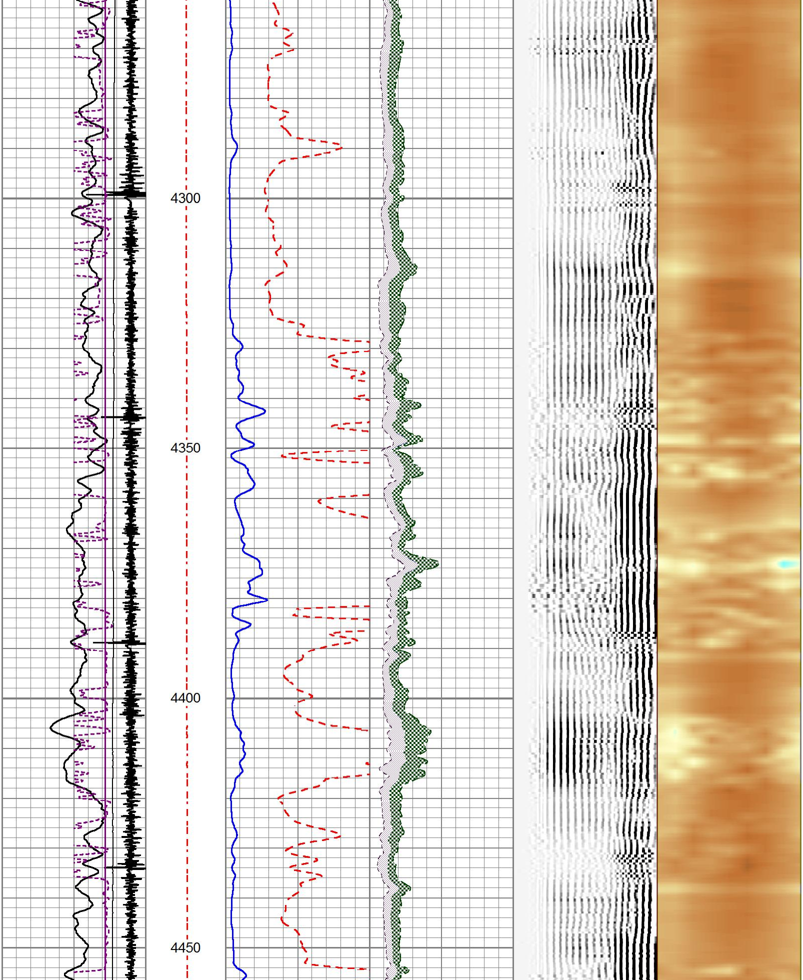
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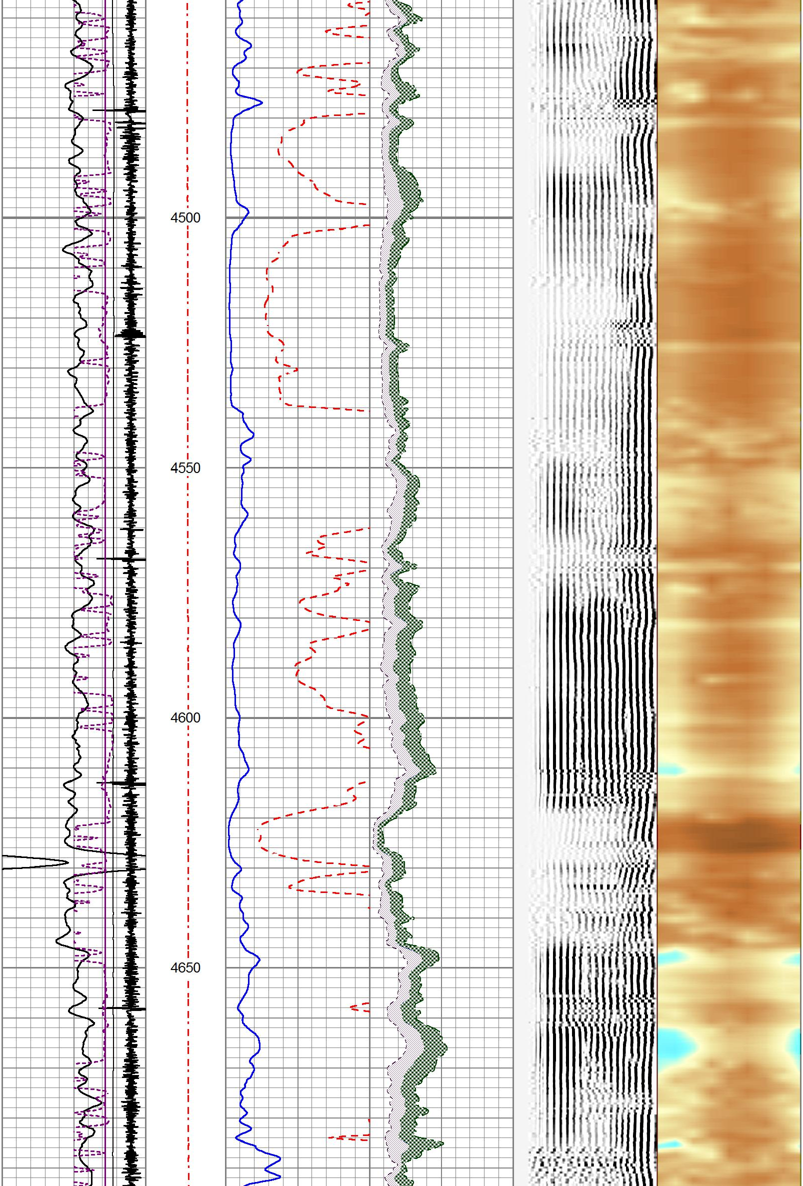
4350
4400
4450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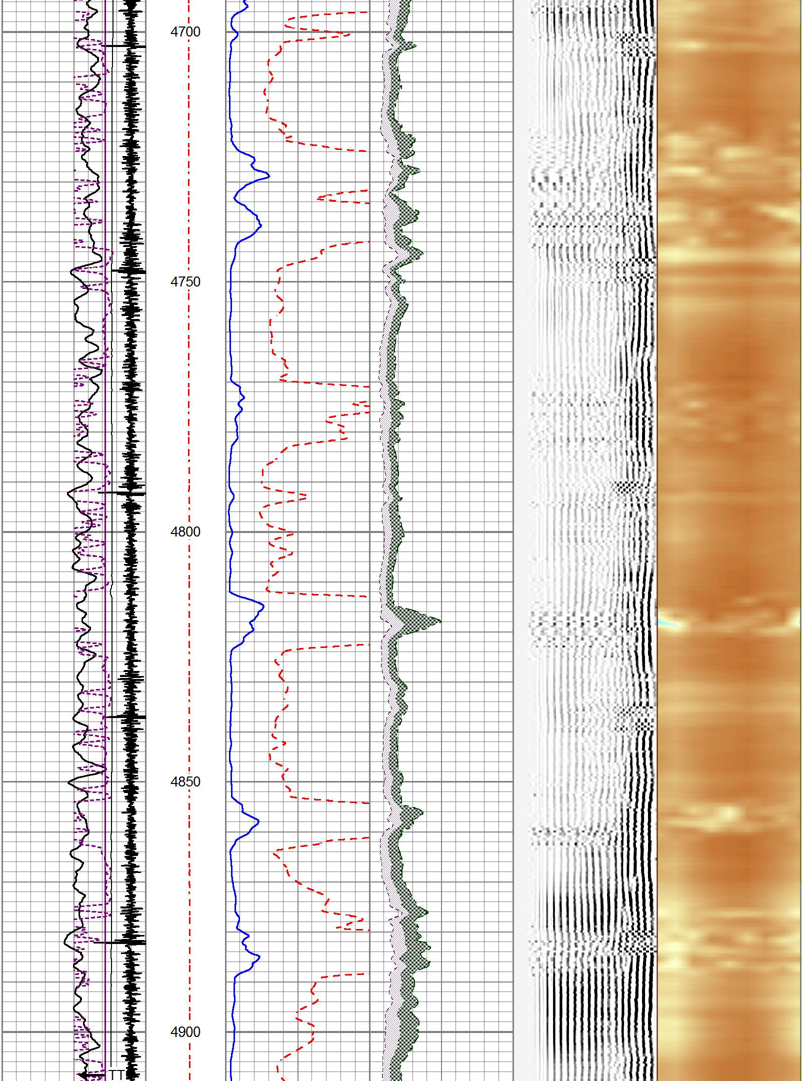
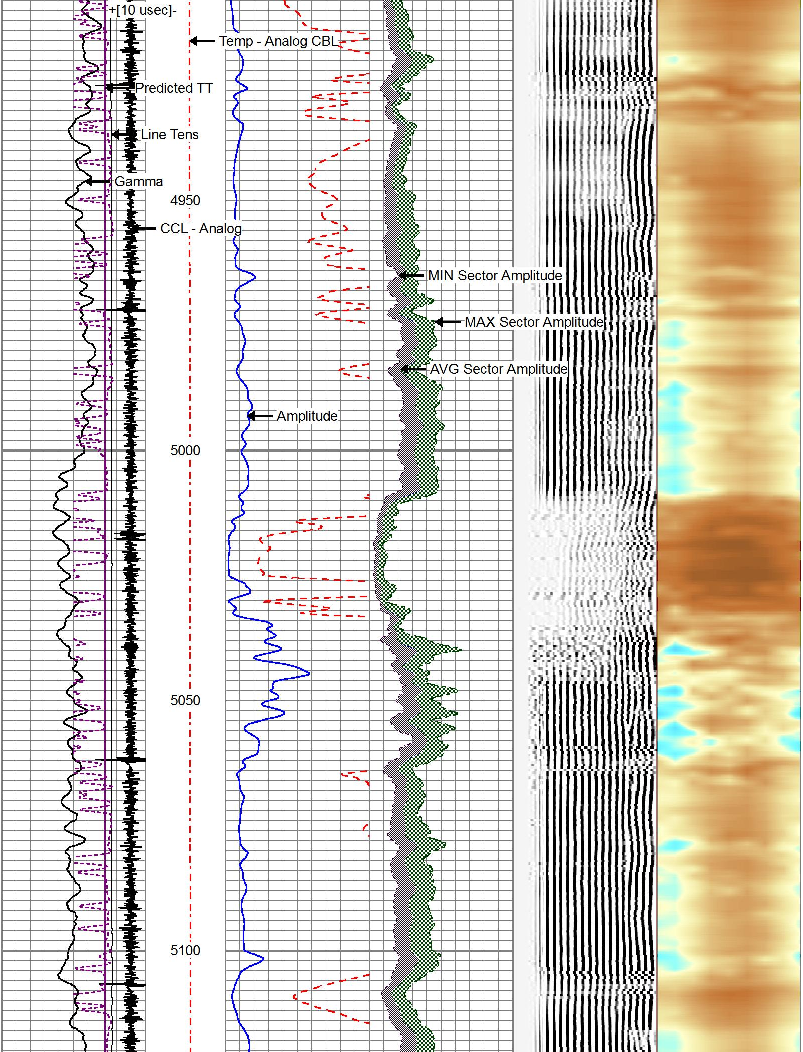
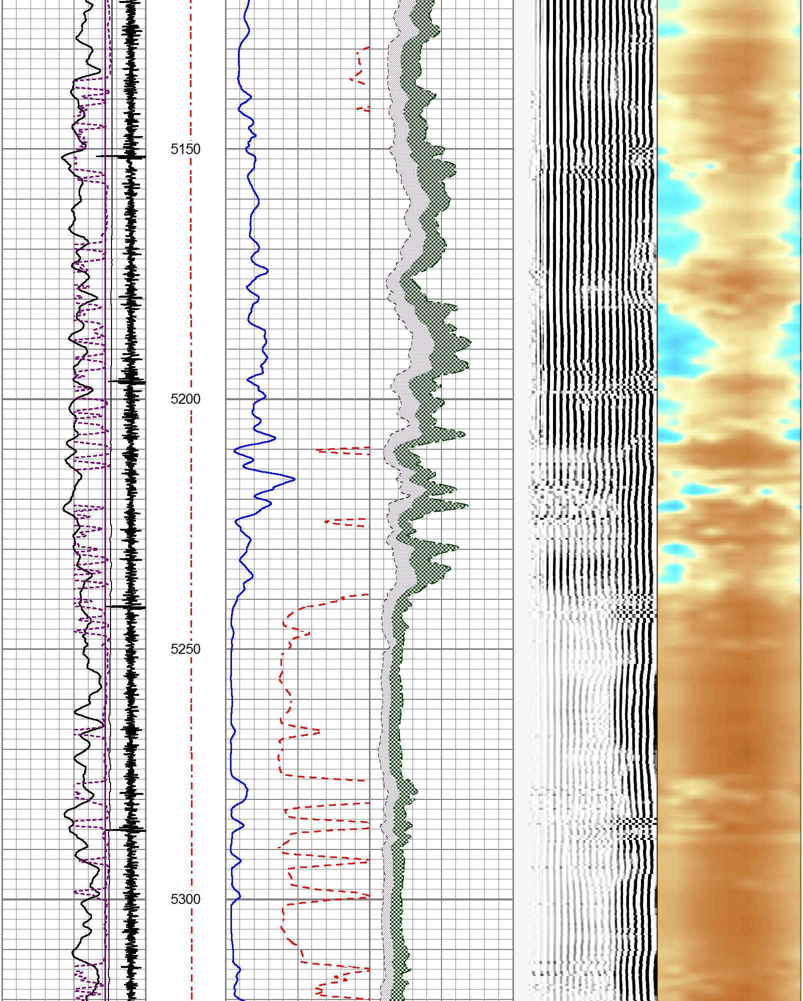
4600
4650


4700
4750
4800
4850
4900
TT


+[10 usec]-
Temp - Analog CBL
Predicted TT
Line Tens
Gamma
4950
CCL - Analog
MIN Sector Amplitude
MAX Sector Amplitude
AVG Sector Amplitude
Amplitude
5000
5050
5100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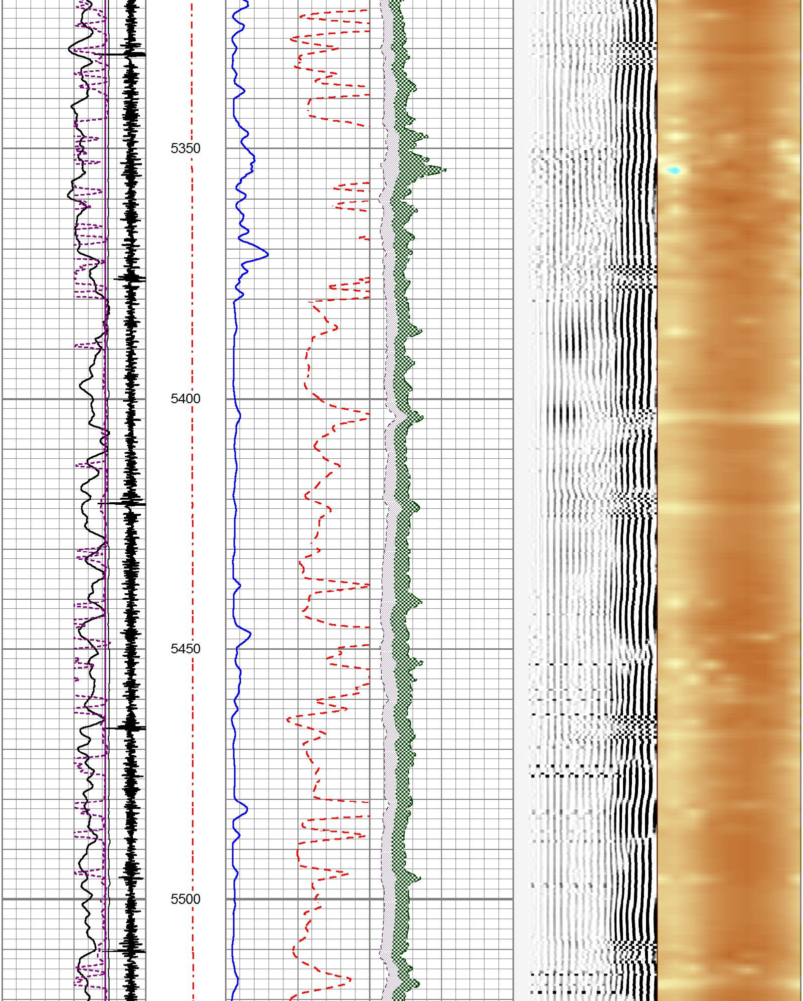
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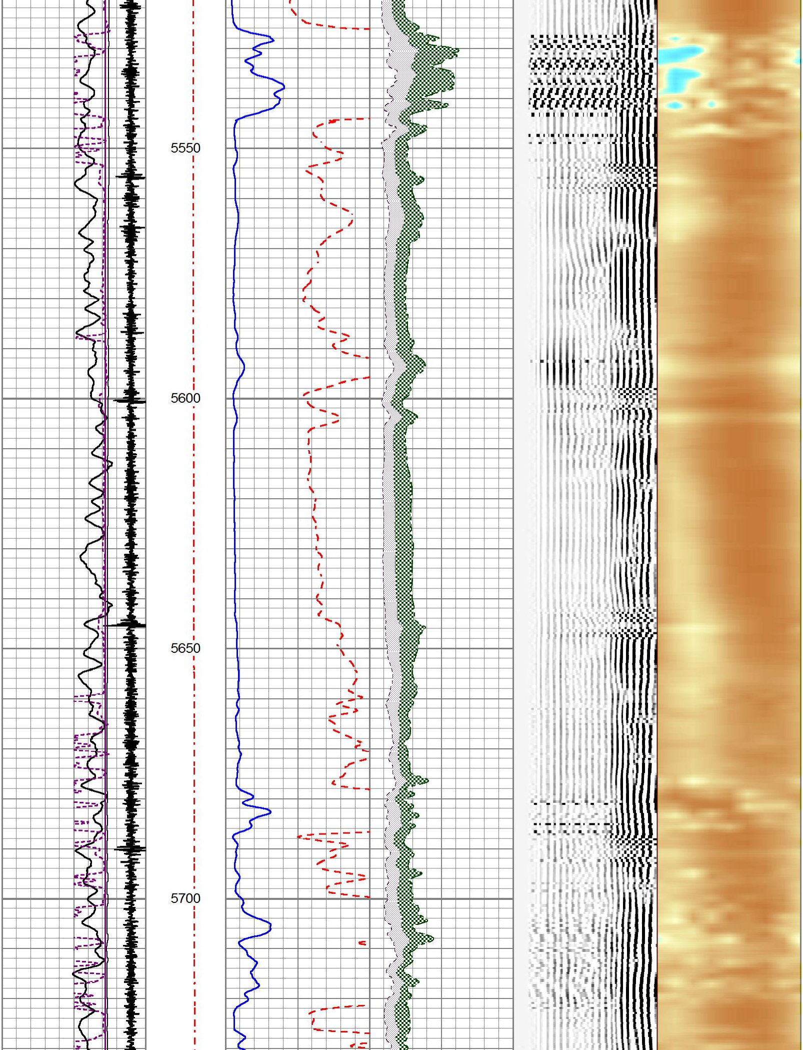
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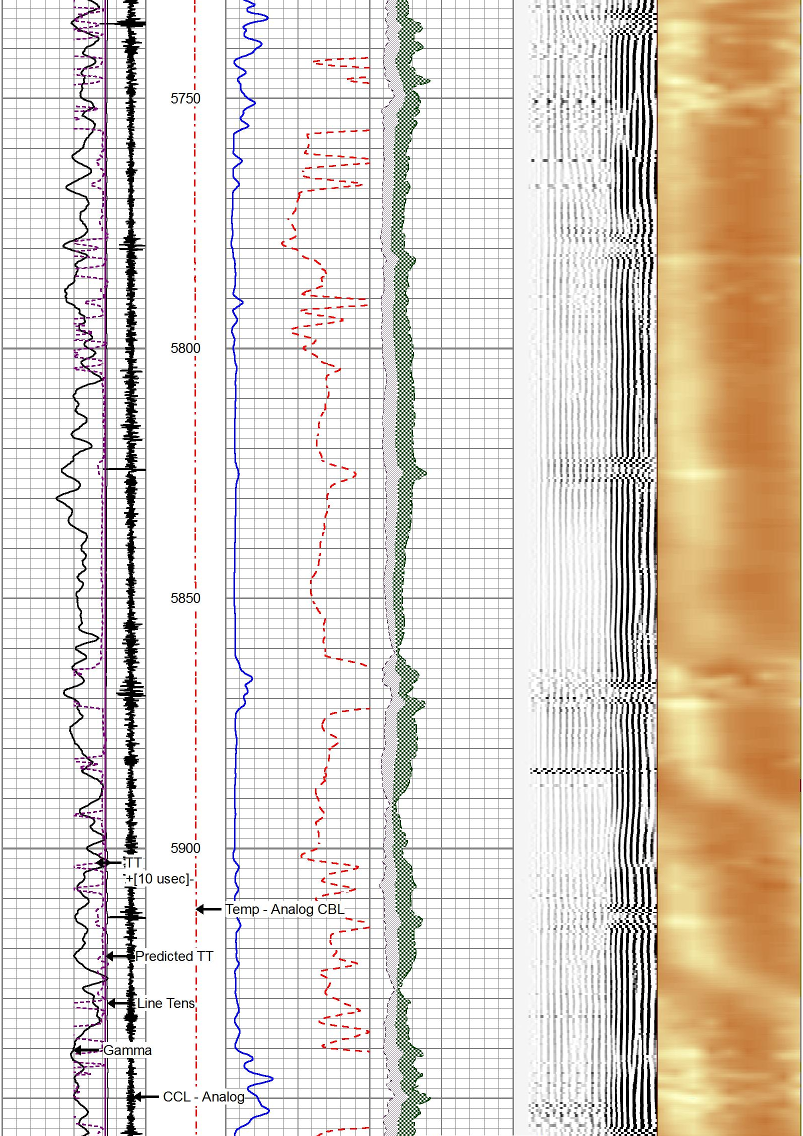
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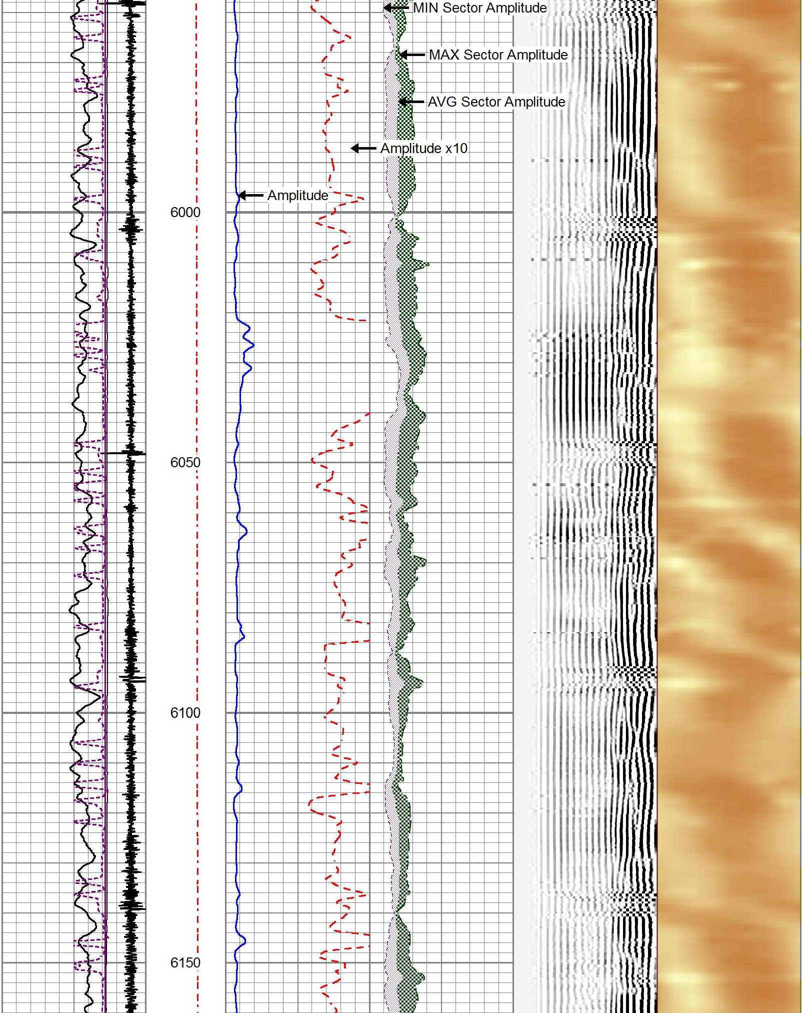
5800
5850
5900
TT
+[10 usec]-
Temp - Analog CBL
Predicted TT
Line Tens
Gamma
CCL - Analog


MIN Sector Amplitude
MAX Sector Amplitude
AVG Sector Amplitude
Amplitude x10
Amplitude
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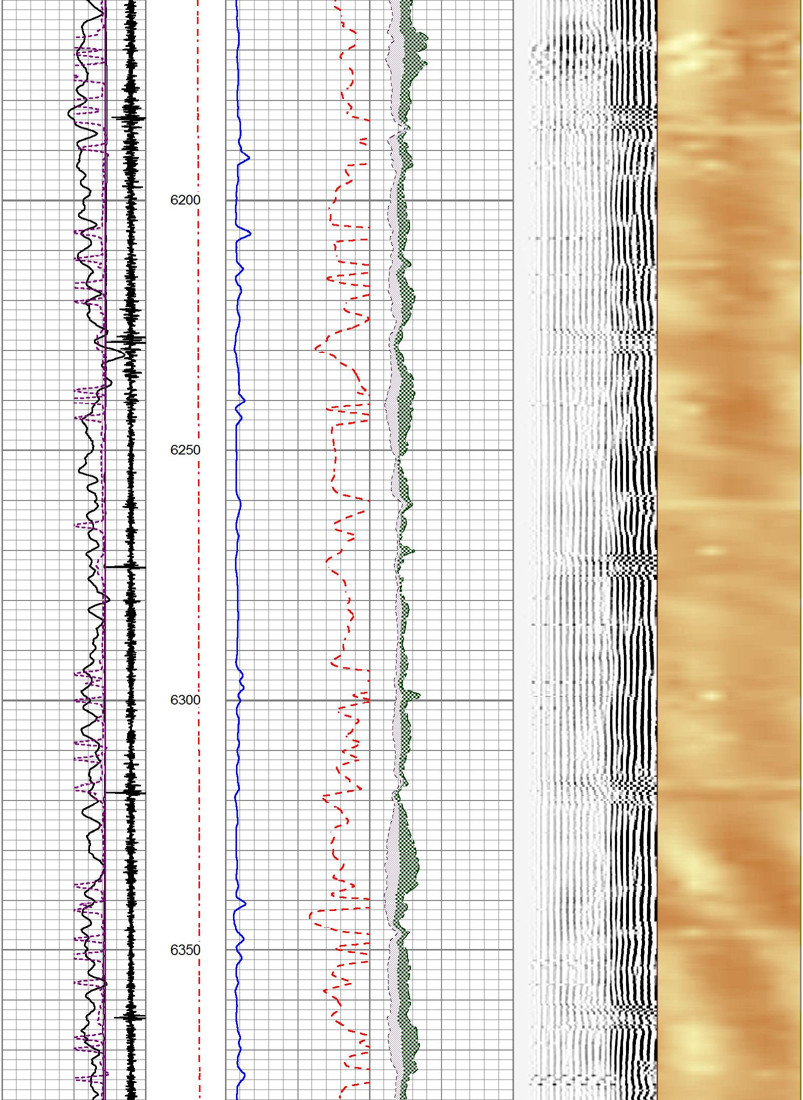
6050
6100
6150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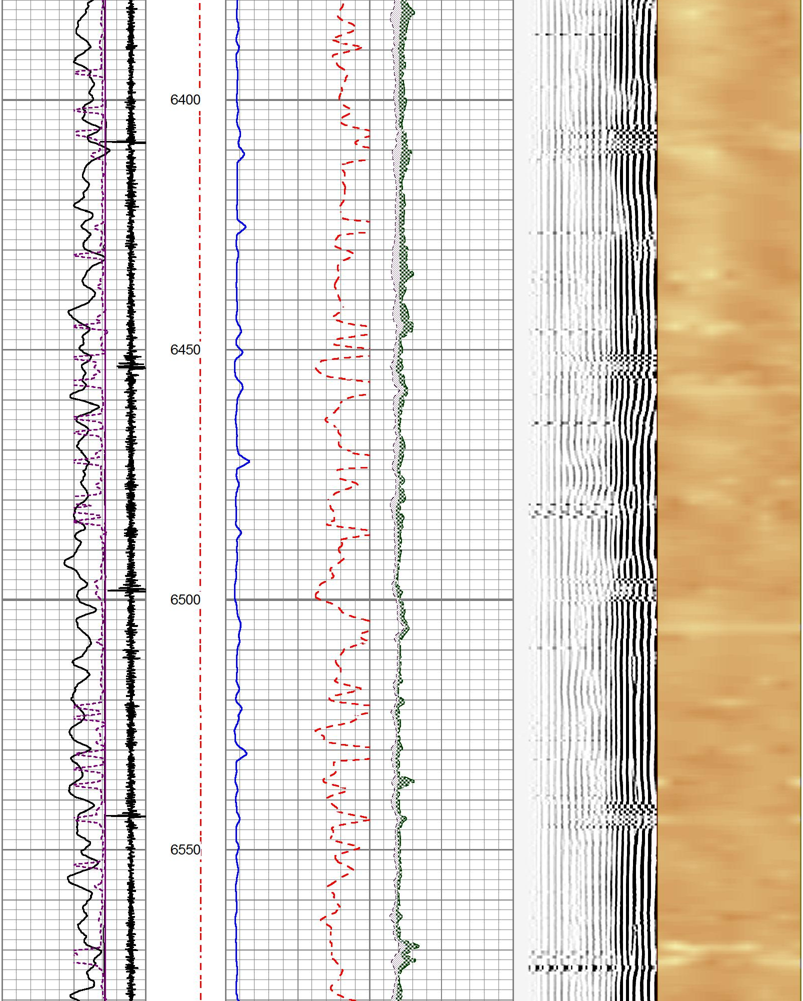
6300
6350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6450
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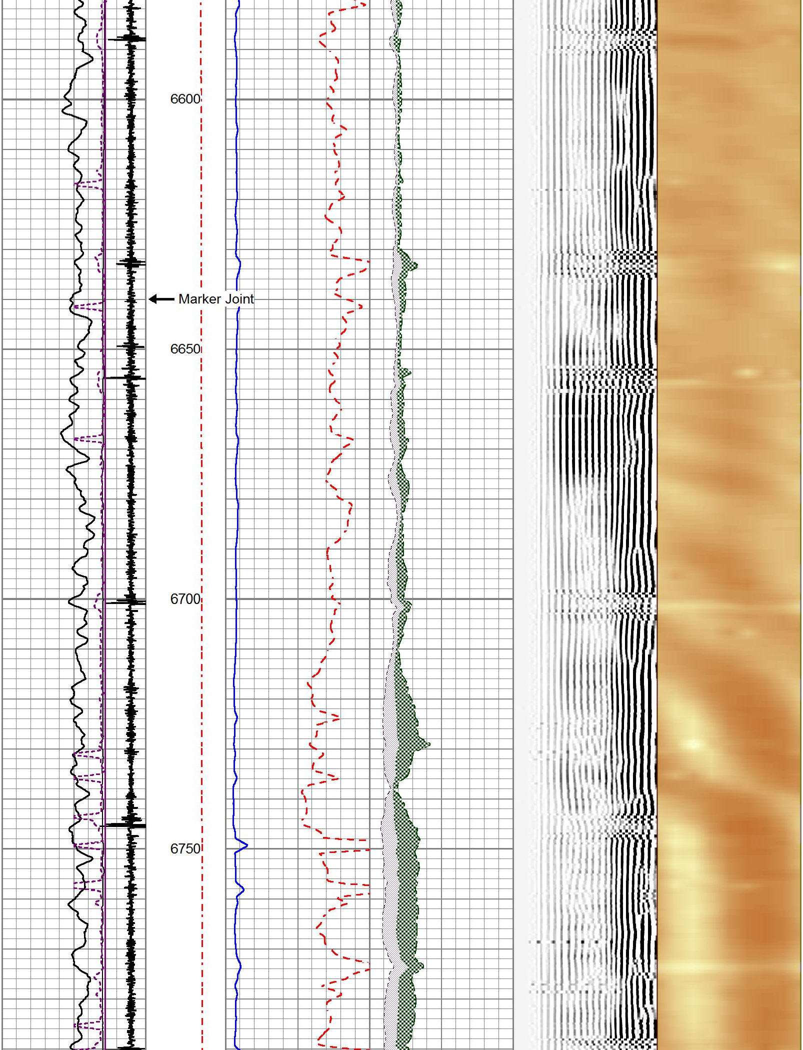
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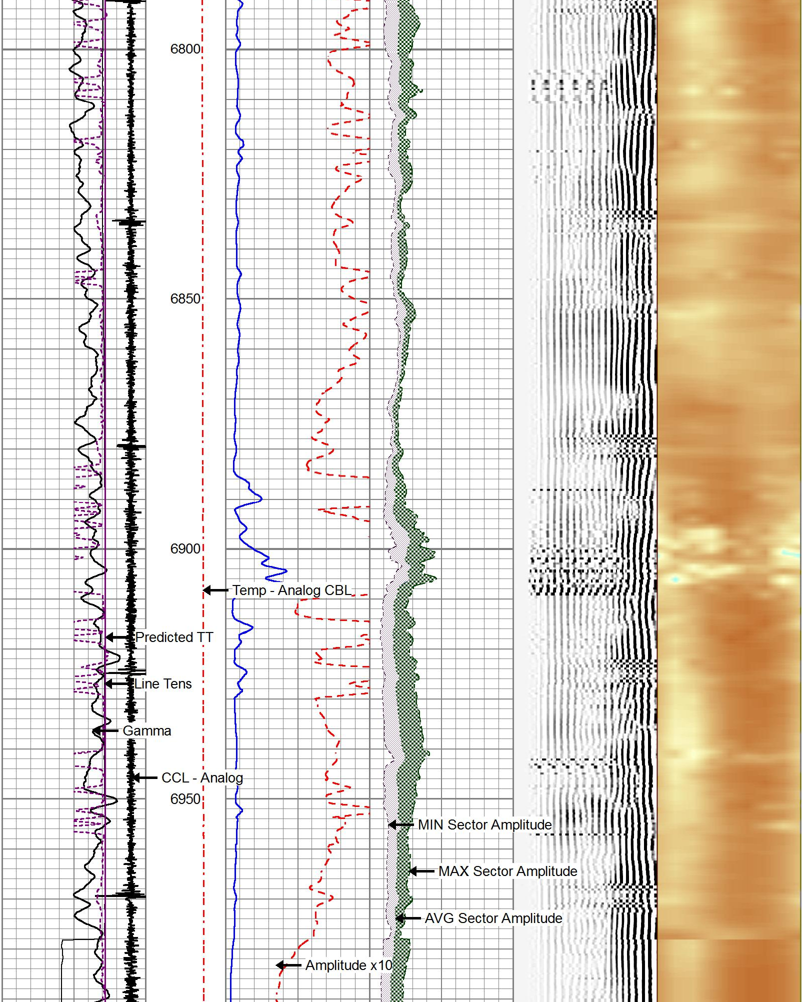
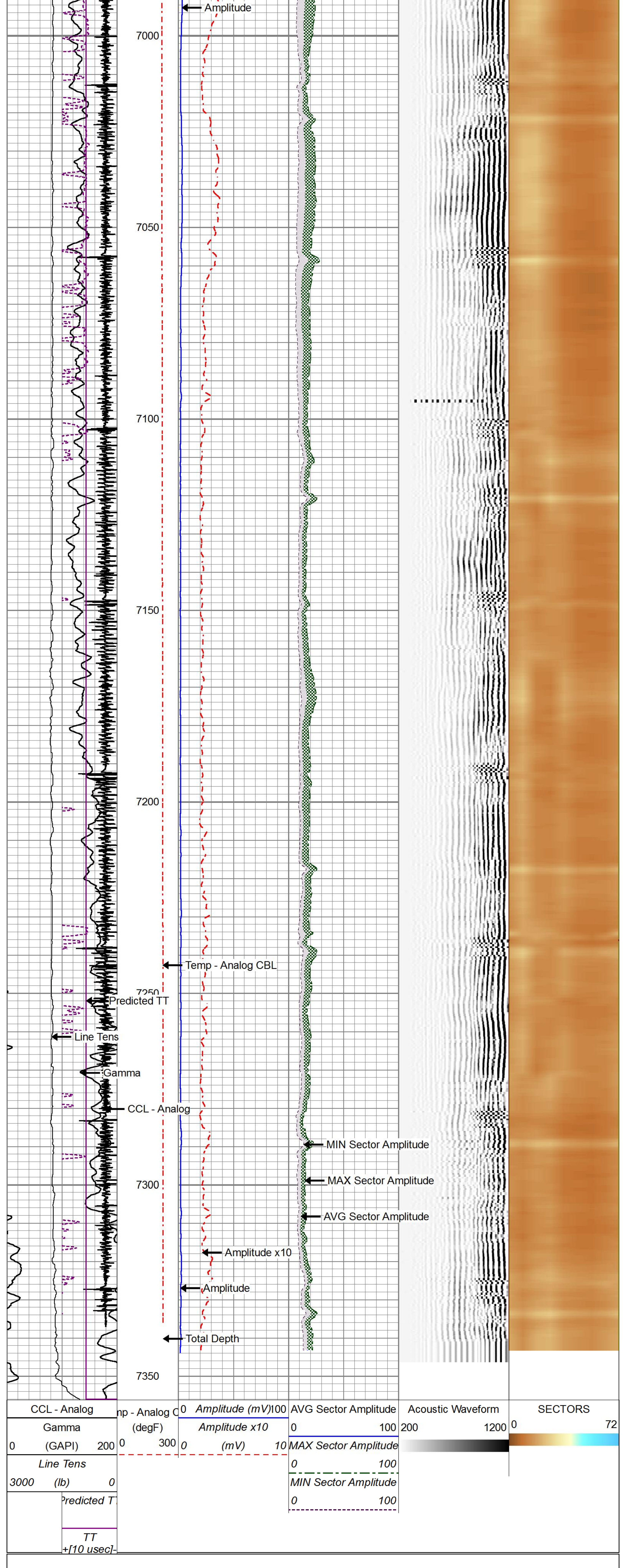
Marker Joint
6650
6700
6750



6800
6850
6900
Temp - Analog CBL
Predicted TT
Line Tens
Gamma
CCL - Analog
6950
MIN Sector Amplitude
MAX Sector Amplitude
AVG Sector Amplitude
Amplitude x10



gyrodata

MAIN PASS - Ran with 0 PSI

5 in / 100 ft

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gyrodata

REPEAT PASS - Ran with 0 PSI

5 in / 100 ft

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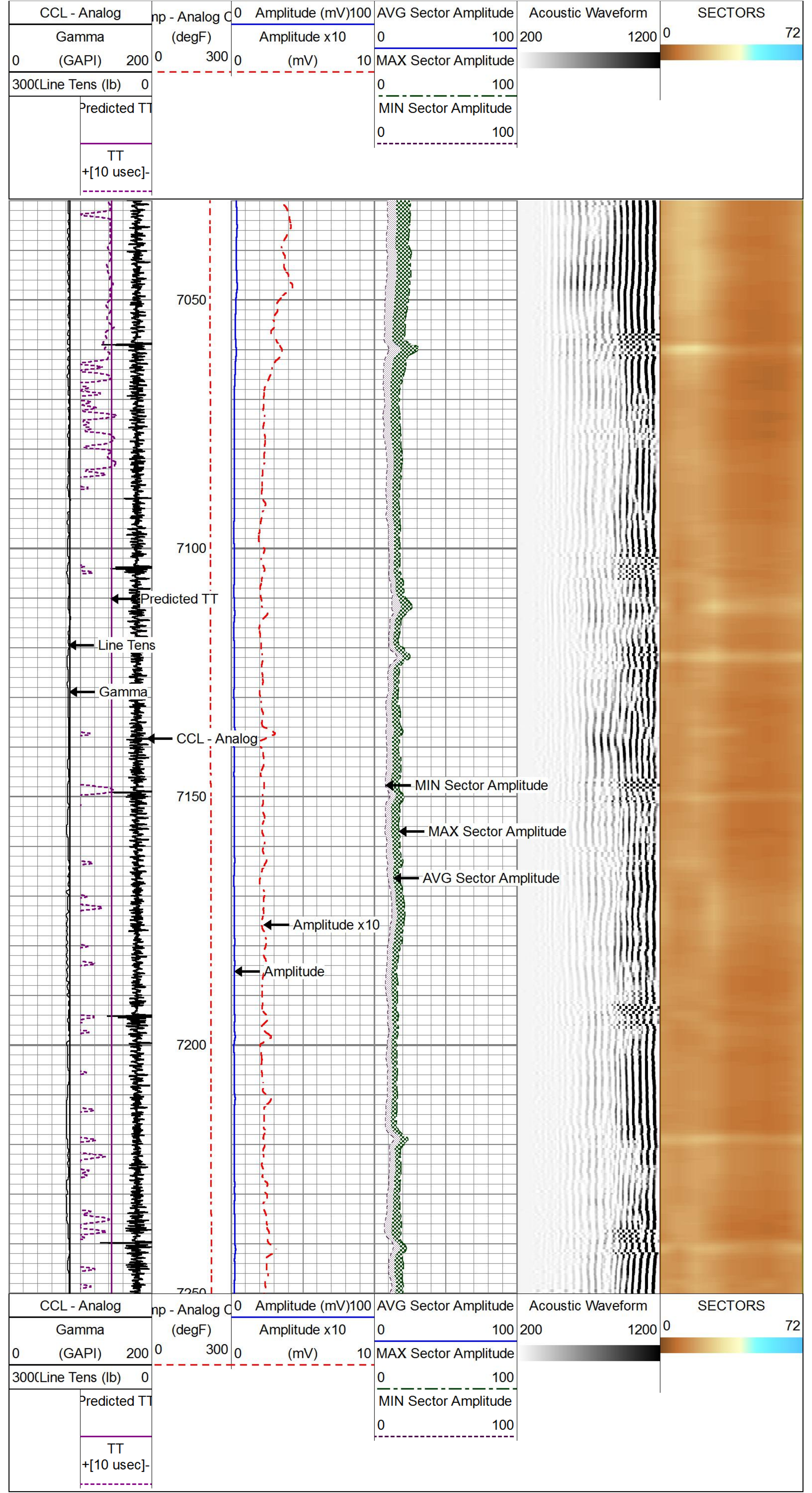
Dataset Pathname	pass1.7
Presentation Format	rcbl_8s
Dataset Creation	Fri Dec 29 13:34:21 2017
Charted by	Depth in Feet scaled 1:240



gyrodata

REPEAT PASS - Ran with 0 PSI

5 in / 100 ft

Calibration Report

Database File	c:\warrior\2017_12_28_extraction_launer_3_cbl\2017_12_28_extraction_launer_3_cbl.db
Dataset Pathname	pass1.5
Dataset Creation	Fri Dec 29 13:31:08 2017

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:	7.000	in
Calibration Depth:	633.360	ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.002	1.768	2.000	62.165	34.074	1.916
CAL	-0.010	0.898				
5'	-0.005	2.135	2.000	62.165	28.119	2.138
SUM						
S1	0.020	1.392	2.000	62.165	43.858	1.135
S2	0.022	1.188	2.000	62.165	51.598	0.856
S3	0.025	1.198	2.000	62.165	51.302	0.706
S4	0.024	1.249	2.000	62.165	49.107	0.822
S5	0.024	1.488	2.000	62.165	41.091	1.013
S6	0.020	1.670	2.000	62.165	36.467	1.261
S7	0.019	1.780	2.000	62.165	34.154	1.367
S8	0.025	1.598	2.000	62.165	38.236	1.048

Internal Reference Calibration, performed (Not Performed):

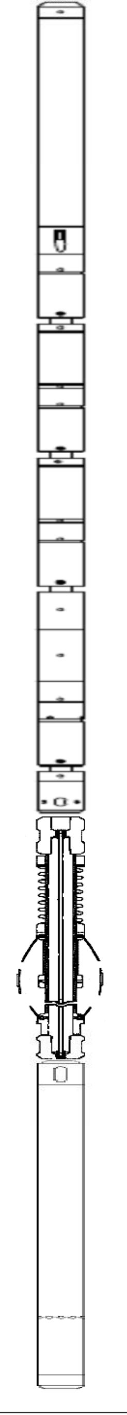
	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.010	0.898	1.000	0.000

Air Zero Calibration, performed (Not Performed):

	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	18.96		CCL_Log-2 3/4" TekCo (IPSN7-03)	1.83	2.75	33.00
			TekCo-2 3/4"	2.73	2.75	25.00
TEMP	12.78					
WVFS8	11.49					
WVFS7	11.49					
WVFS6	11.49					
WVFS5	11.49					
WVFS4	11.49		RBTA-2 3/4" RIB Analog (IPPO2-01)	9.13	2.75	102.00
WVFS3	11.49					
WVFS2	11.49					
WVFS1	11.49					
WVF3FT	10.74					
WVF5FT	9.74					
WVFSYNC	6.41					
WVFTEMP	6.41					
WVFCAL	6.41					
			TekCo-2 3/4"	2.73	2.75	25.00
			GR_Log-2 3/4" TekCo (ISHV2-02)	3.68	2.75	47.00
GR	1.04					
LOCTIM	0.00					
UTCTIM	0.00					

Dataset:	2017_12_28_extraction_launer_3_cbl.db: field/well/run1/pass1.5
Total length:	21.13 ft
Total weight:	235.60 lb
O.D.:	2.75 in

gyrodata

Company	Extraction Oil and Gas		
Well	Launer 3		
Field	Wattenberg		
County	Weld		
State	CO	**Country**	U.S.A.