Comp.	ALTA MESA SERVICES LLC
Well	BARLOW 1-14
Field	WILDCAT
Co.	PAYETTE
State	IDAHO

RADIAL BOND LOG WITH GAMMA RAY

Pioneer Energy Services

Company	ALTA MESA SERVICES LLC		
Well	BARLOW 1-14		
Field	WILDCAT		
County	PAYETTE	State	IDAHO

Location:
API # : 11-075-20033
SHL: 2468' FWL & 1598' FSL
SEC 14 TWP 8N RGE 5W

Other Services
JB/GR

Permanent Datum	G.L.	Elevation	2164'
Log Measured From	K.B.	14'	Above Perm. Datum
Drilling Measured From	K.B.		

Elevation
K.B. 2178'
D.F. 2178'
G.L. 2164'

Date of Service	08-FEB-2018
Run Number	1
Depth Driller or PBTD	4150'
Depth Logger	4017'
Bottom Log Interval	4017'
Top Log Interval	SURFACE
Open Hole Size	N/A
Type Fluid	WELL
Fluid Level	388'
Fluid Density	N/A
Max. Recorded Temperature	239 DEG F
Max. Wellhead Pressure	0 PSI SURFACE
Wellhead Connection	7 1/16" 5K FLANGE
Estimated Cement Top	N/A
Unit Number	P-83
Wireline Size	1/4"
Location	CASPER, WY
Recorded By	TED WILLIAMS
Witnessed By	MITCH GORE

	Size	Wt/Ft	Top	Bottom
Tubing Record				
Surface Casing	9-5/8"	40#	SURFACE	1192'
Production Casing	5 1/2"	17#	SURFACE	4046'
Liner Record				

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not 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.

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.
CORRELATED WEATHERFORD COMBO LOG DATED 26-JAN-2018
PER CLIENT

THANK YOU FOR USING PIONEER ENERGY SERVICES!

Your Pioneer Energy Services Crew

Engineer: TED W
Operator: AUSTIN C
Operator: DEREK A
Operator:

Tool Data - Services	Serial Number
PROBE RCBL	121041
PROBE GR	120672

Log Variables

Database C:\ProgramData\Warrior\Data\alta mesa_barlow 1-14_20180208_rcbl-tcp-press-temp
Dataset field/well/run1/pass8/_vars_

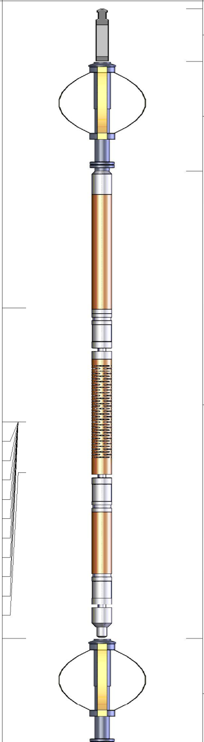
Top - Bottom

BHTEMP_Src	PPT	CASEWGHT	MAXAMPL	MINAMPL	MINATTN	SRFTEMP
	usec	lb/ft	mV	mV	db/ft	degF
TEMP	0	17	0	1	0.08	0

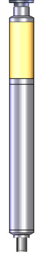
CASETHCK	CASEOD	PERFS	TDEPTH	BOTTEMP	BOREID
in	in		ft	degF	in
0	5.5	0	0	100	8.5

Sensor	Offset (ft)
TEMP	13.46
WVFS8	11.22
WVFS7	11.22
WVFS6	11.22
WVFS5	11.22
WVFS4	11.22
WVFS3	11.22
WVFS2	11.22
WVFS1	11.22
WVFCAL	11.22
WVF3FT	11.22
WVF5FT	10.22
HEADVOLT	6.97

Schematic



Description	Length (ft)	O.D. (in)	Weight (lb
Cable Head-Titan 143 1 7/16" Titan Cable Head (1" Fish Top)	1.03	1.43	2.00
Centralizer-275 TekCo 2 3/4" TekCo Centralizer	2.16	2.75	20.00
SCBL-275 Probe w Temp (FW1210-41) Probe Radii Bond Tool with Temperature	9.17	2.75	95.00
Centralizer-275 TekCo 2 3/4" TekCo Centralizer	2.16	2.75	20.00



CCL	3.91				
		GR_CCL-275 Probe GR-CCL (1206-72) Probe 2 3/4" Gamma Ray / CCL Analog - Neg Pulse	4.54	2.75	60.00
GR	1.17				
		Bullnose-Titan GO Pin Pressure Cap	0.27	1.38	1.00

Dataset:	alta mesa_barlow 1-14_20180208_rcbl-tcp-press-temp.db: field/well/run1/pass8
Total length:	19.33 ft
Total weight:	198.00 lb
O.D.:	2.75 in

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FREE PIPE SECTION

0 PSI APPLIED AT SURFACE

Database File	alta mesa_barlow 1-14_20180208_rcbl-tcp-press-temp.db
Dataset Pathname	pass6
Presentation Format	pinr_scbl
Dataset Creation	Thu Feb 08 15:34:18 2018
Charted by	Depth in Feet scaled 1:240

3' Travel Time
287 (usec) 187

Gamma Ray
0 (GAPI) 150

-9 CCL 1

TEMP
(degF)

Line Tension
0 (l3000

3' Amplitude
0 (mV) 100

3' Amplified Amplitude X 5
0 (mV) 20

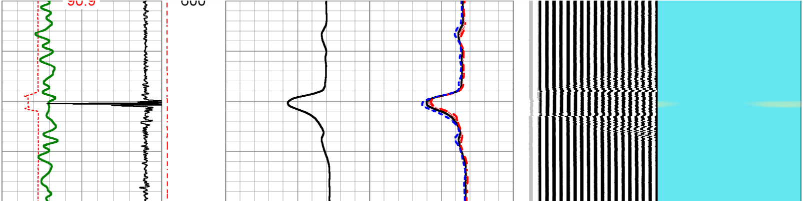
Sector Amplitude Average
0 150

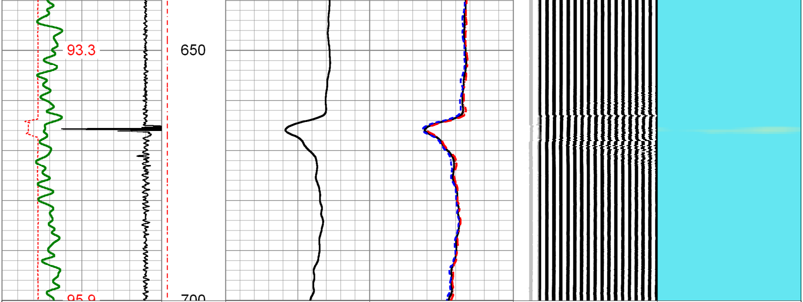
Sector Amplitude Maximum
0 150

Sector Amplitude Minimum
0 150

200 VDL 1200

1 Sector Map 8
10 60





3' Travel Time
287 (usec) 187

Gamma Ray
0 (GAPI) 150

-9 CCL 1

TEMP
(degF)

Line Tension
0 (l3000

3' Amplitude
0 (mV) 100

3' Amplified Amplitude X 5
0 (mV) 20

Sector Amplitude Average
0 150

Sector Amplitude Maximum
0 150

Sector Amplitude Minimum
0 150

200 VDL 1200

1 Sector Map 8
10 60

PIONEER
Pioneer Energy Services

MAIN LOG

0 PSI APPLIED AT SURFACE

Database File	alta mesa_barlow 1-14_20180208_rcbl-tcp-press-temp.db
Dataset Pathname	pass8
Presentation Format	pinr_scbl
Dataset Creation	Thu Feb 08 15:55:27 2018
Charted by	Depth in Feet scaled 1:240

3' Travel Time
287 (usec) 187

Gamma Ray
0 (GAPI) 100

-27 CCL 3

TEMP
(degF)

Line Tension
0 (l3000

3' Amplitude
0 (mV) 100

3' Amplified Amplitude X 5
0 (mV) 20

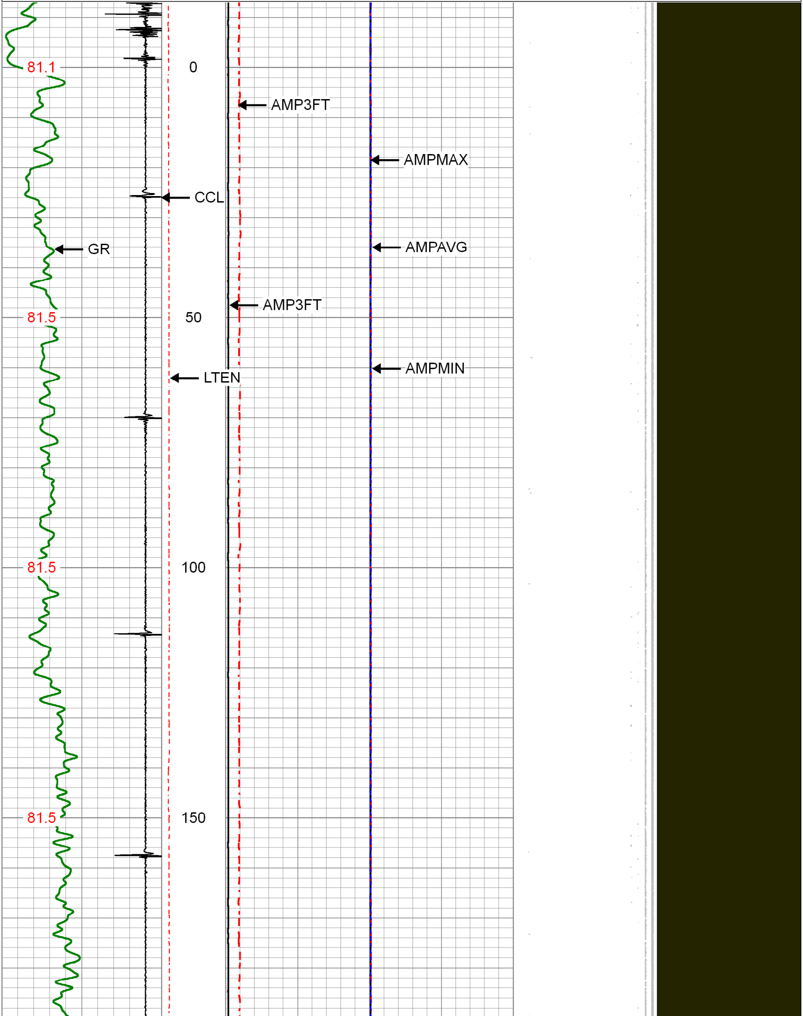
Sector Amplitude Average
0 150

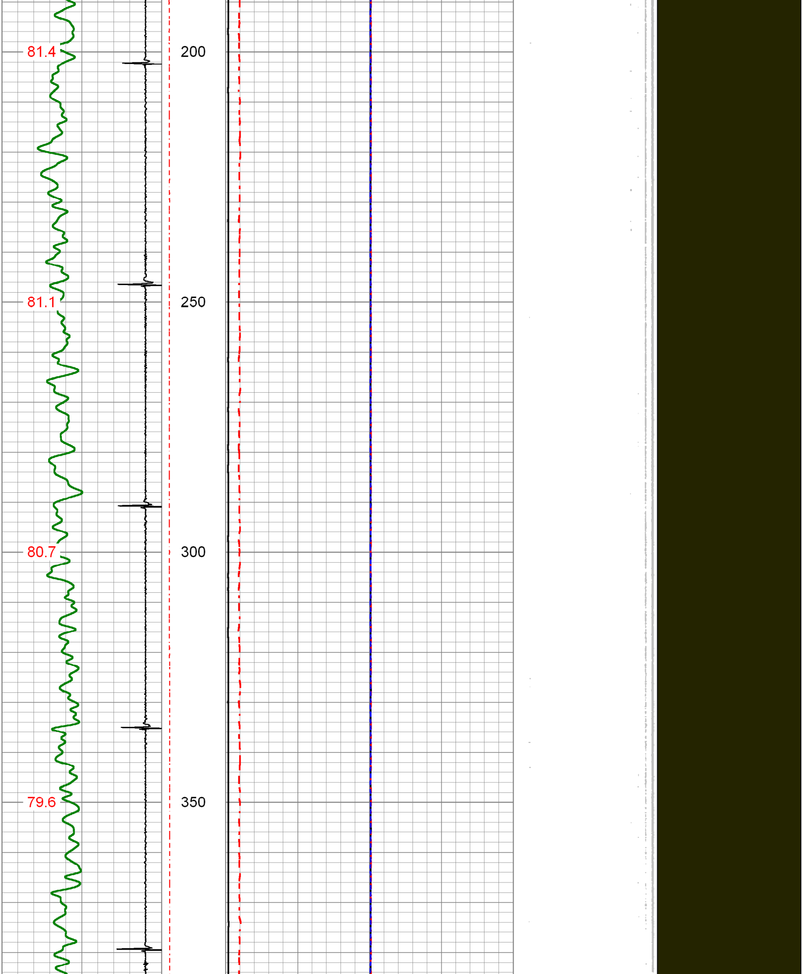
Sector Amplitude Maximum
0 150

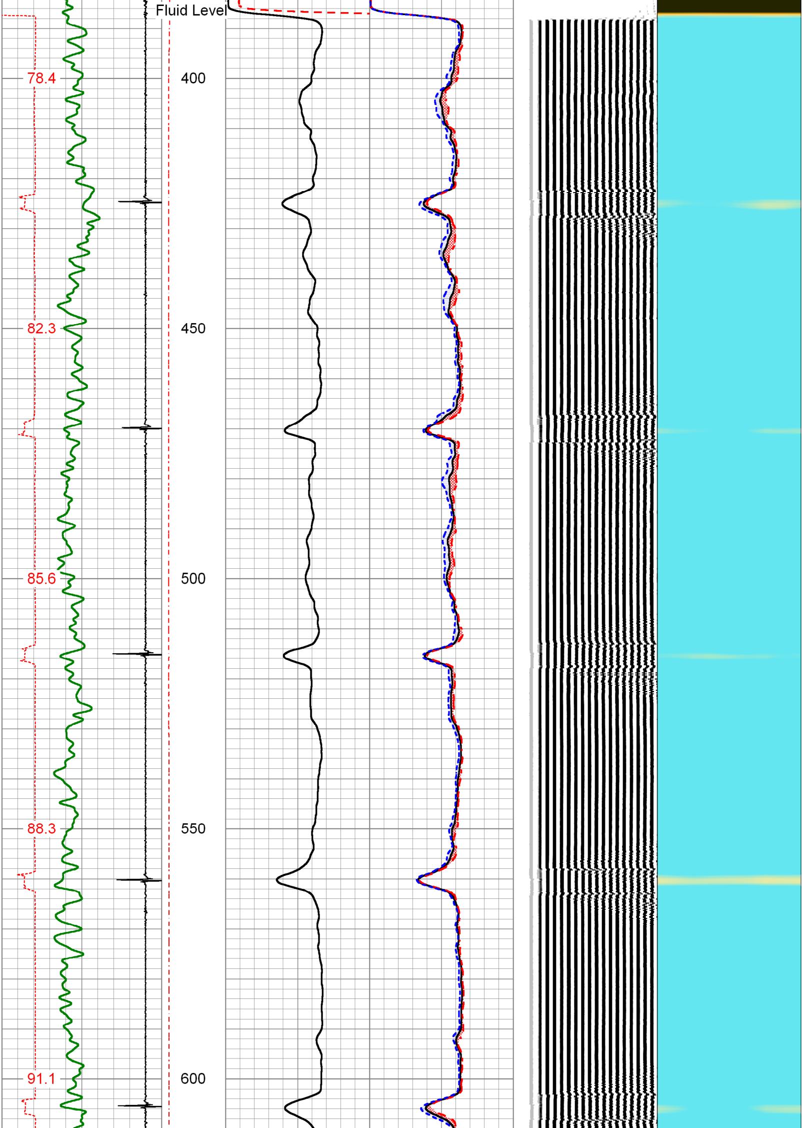
Sector Amplitude Minimum
0 150

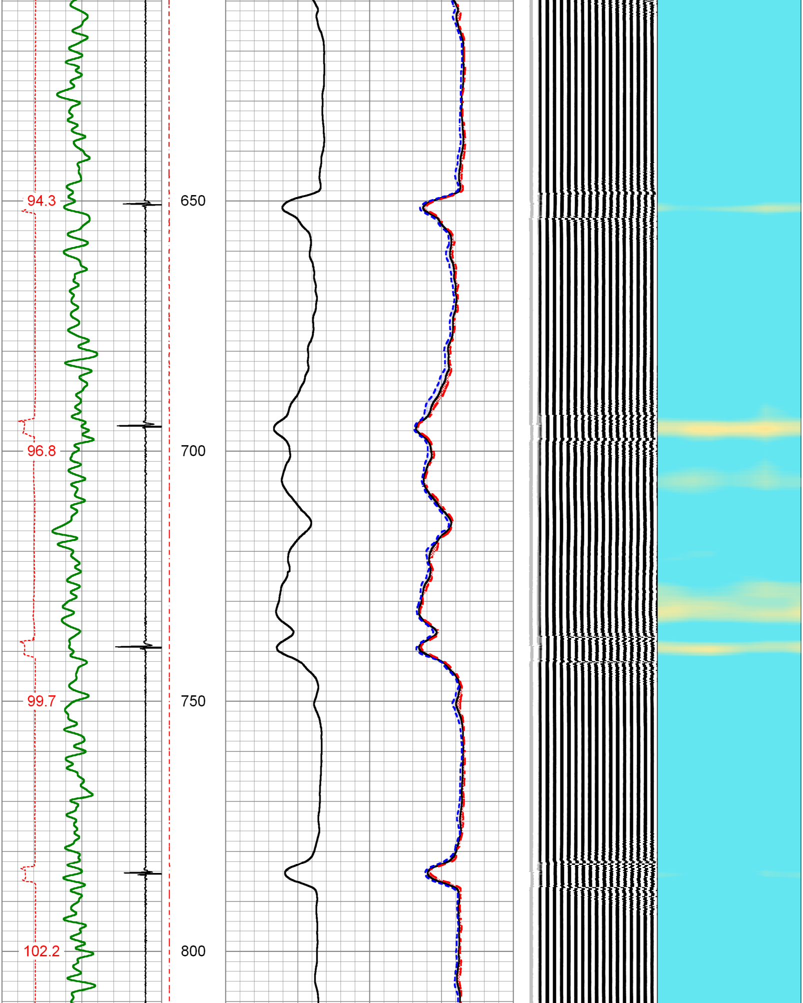
200 VDL 1200

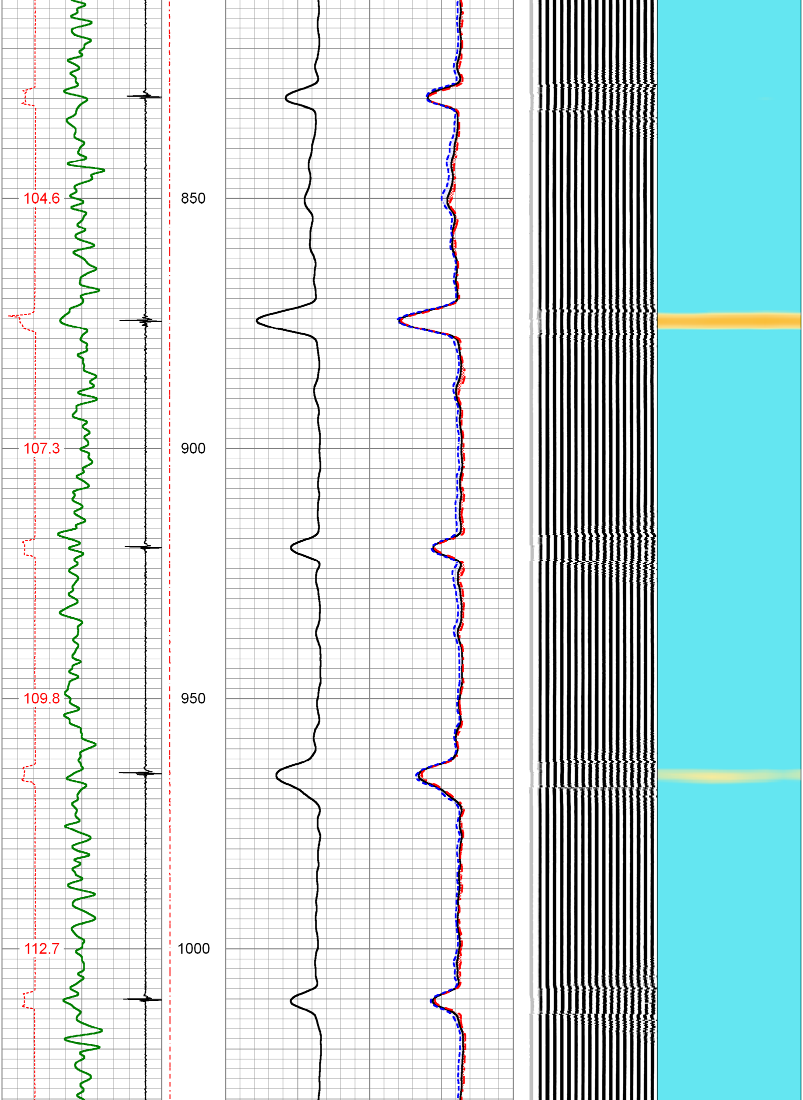
1 Sector Map 8
10 60

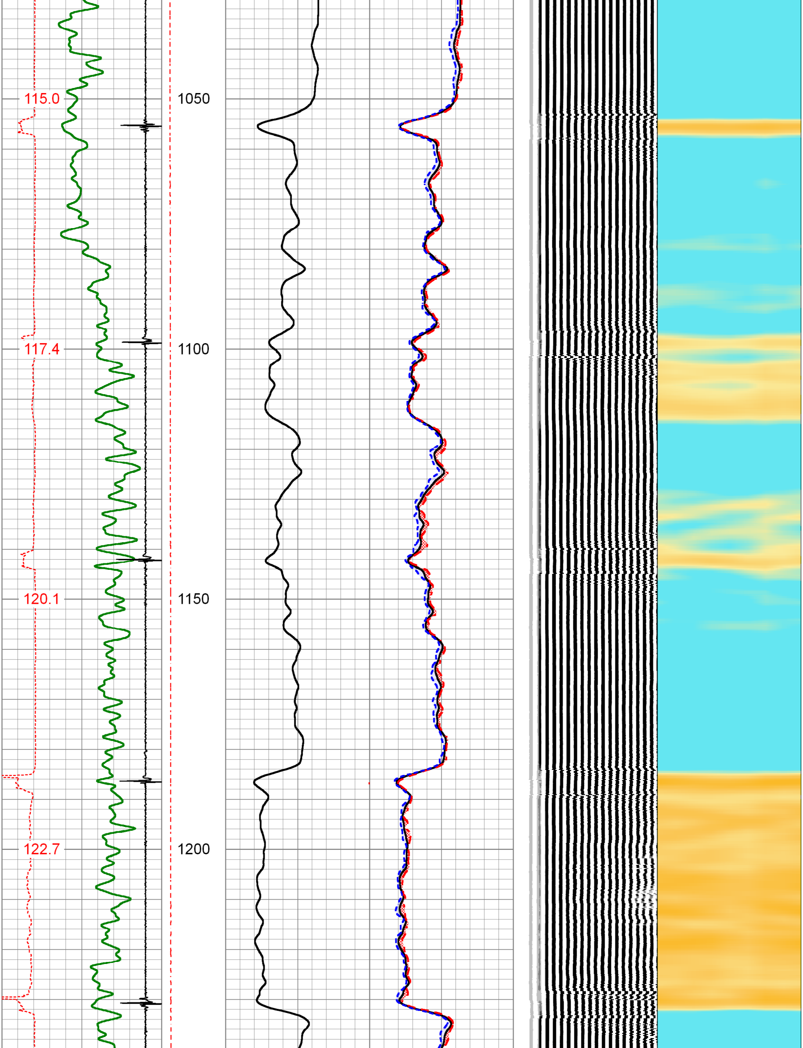


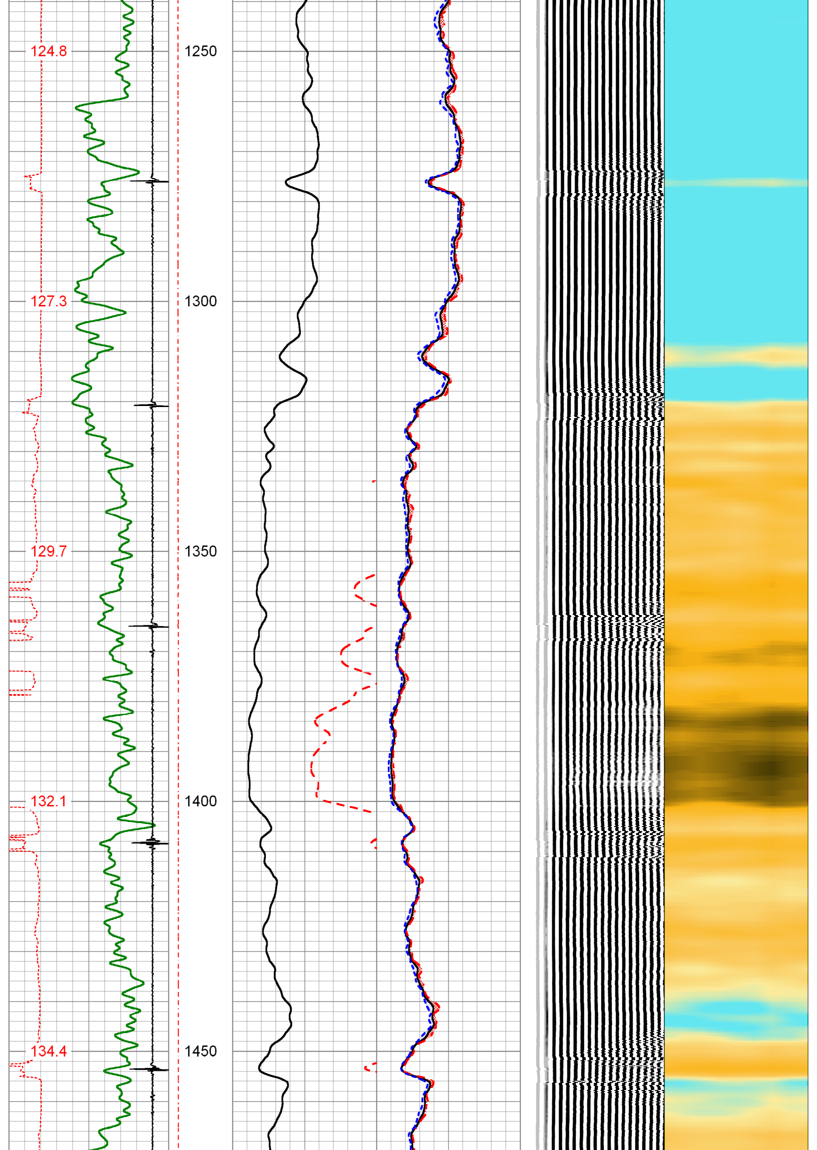


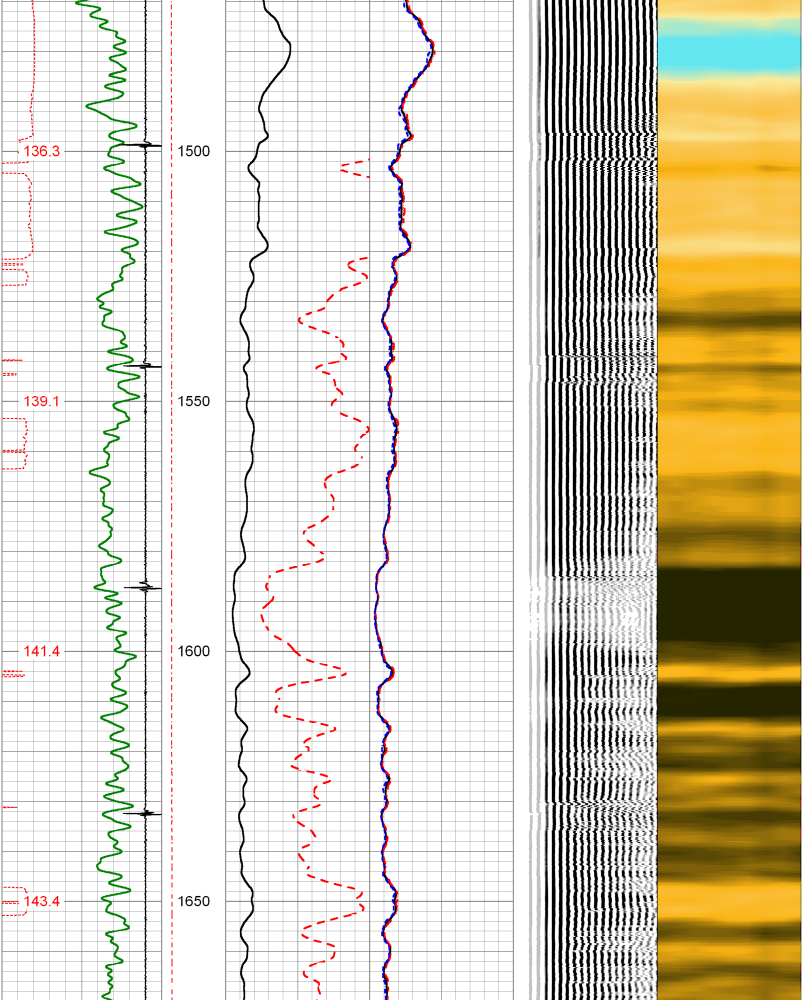


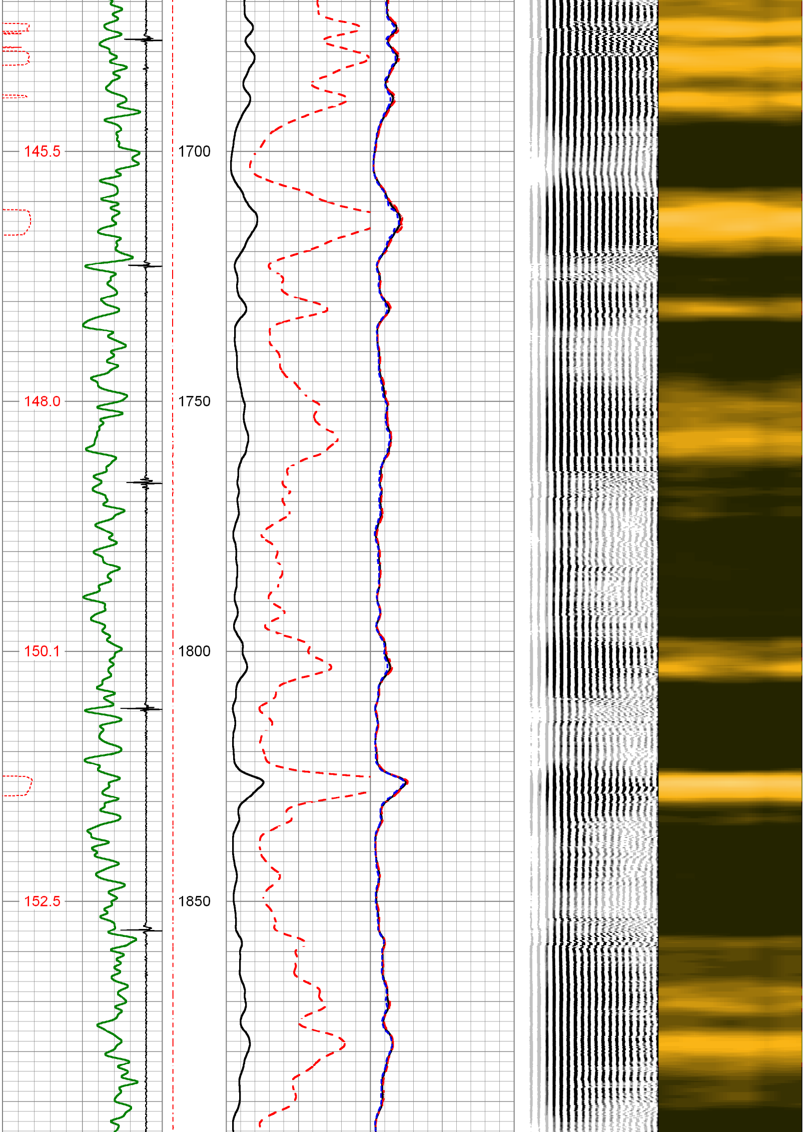


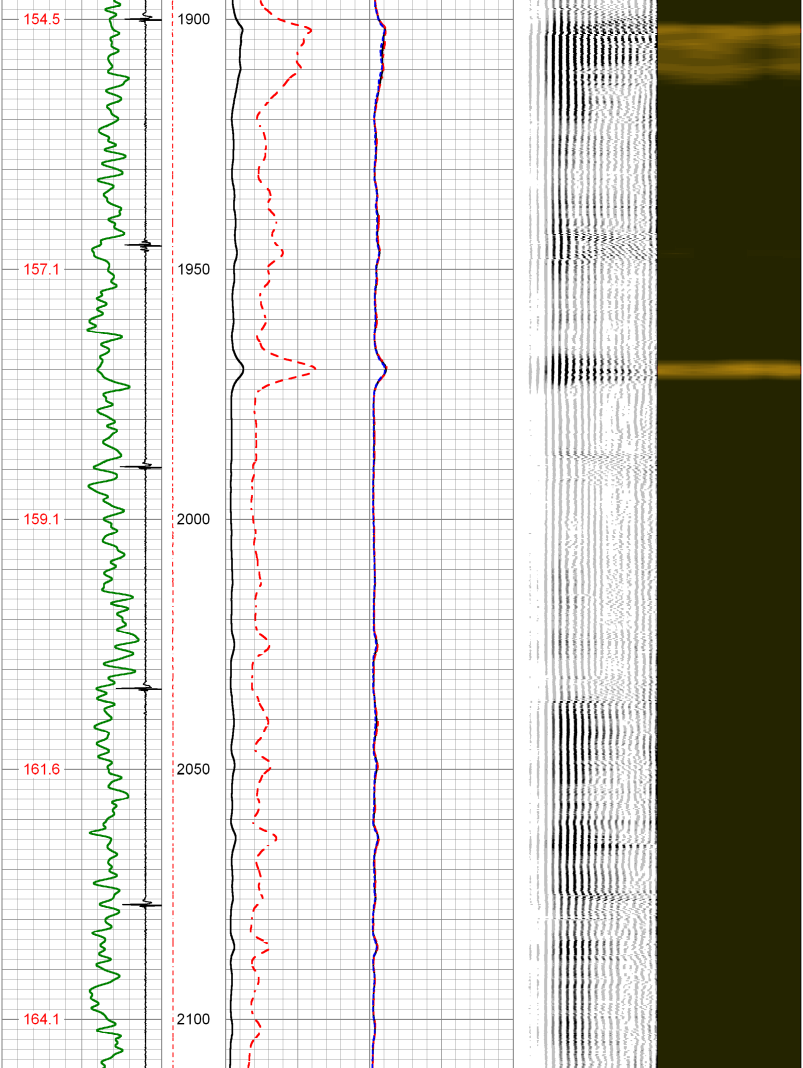


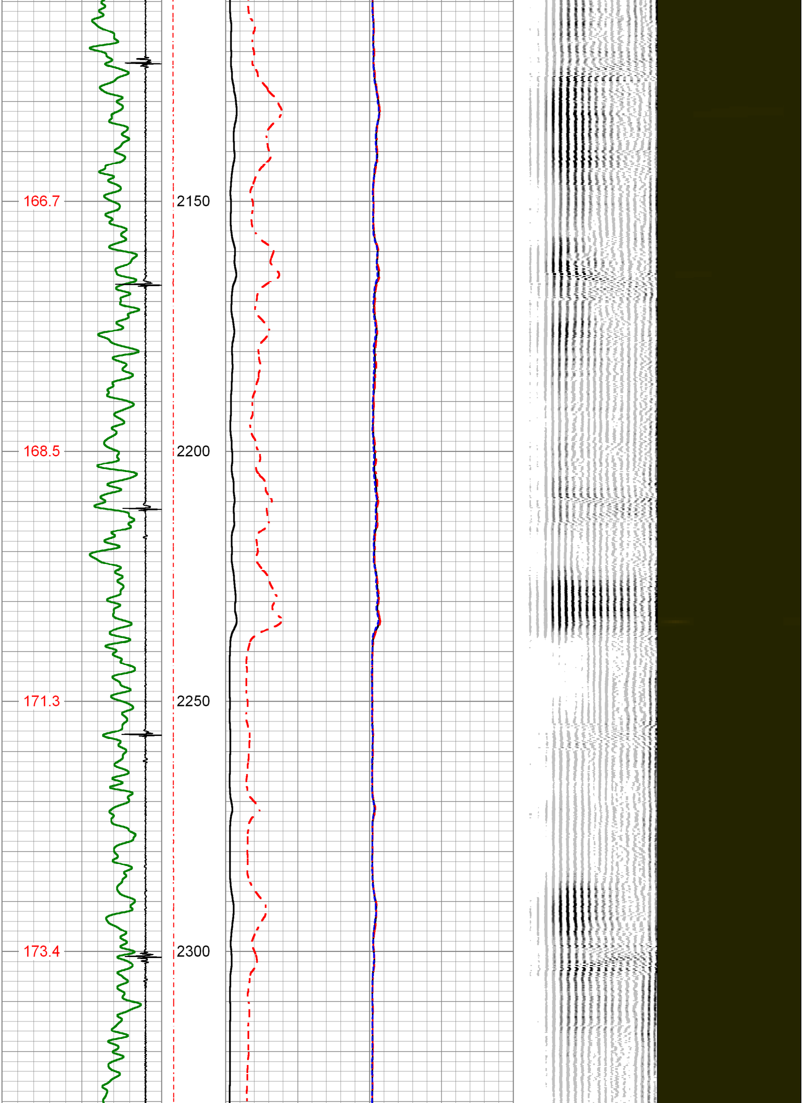


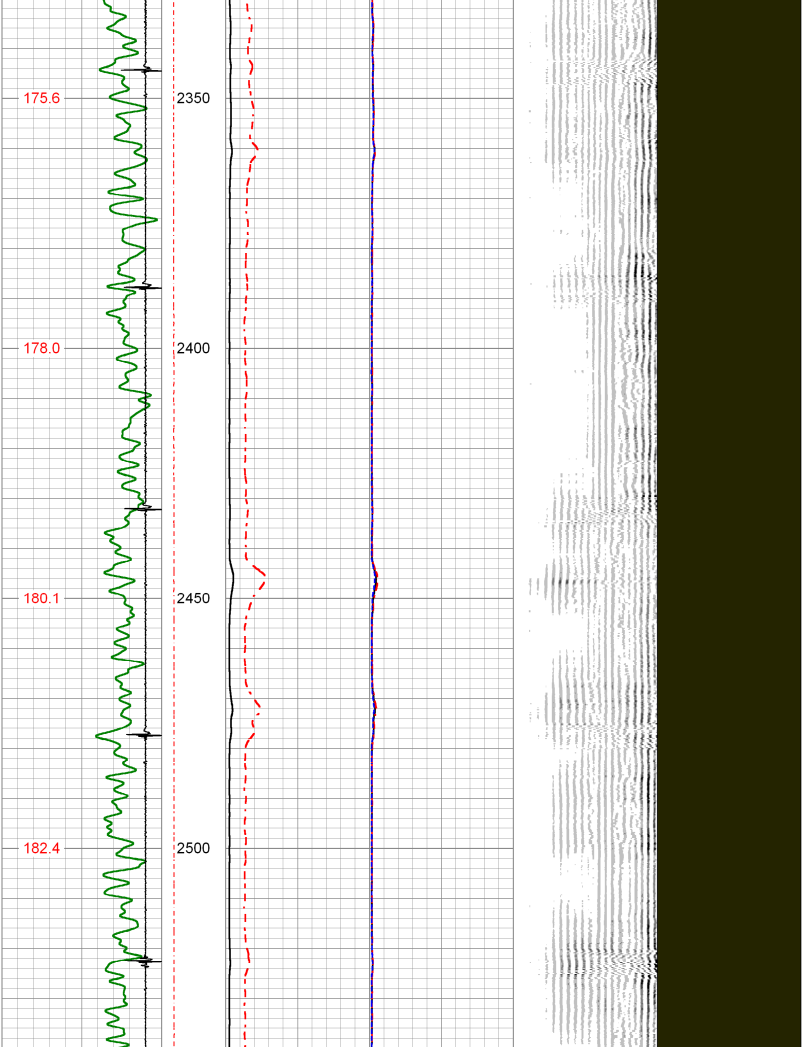


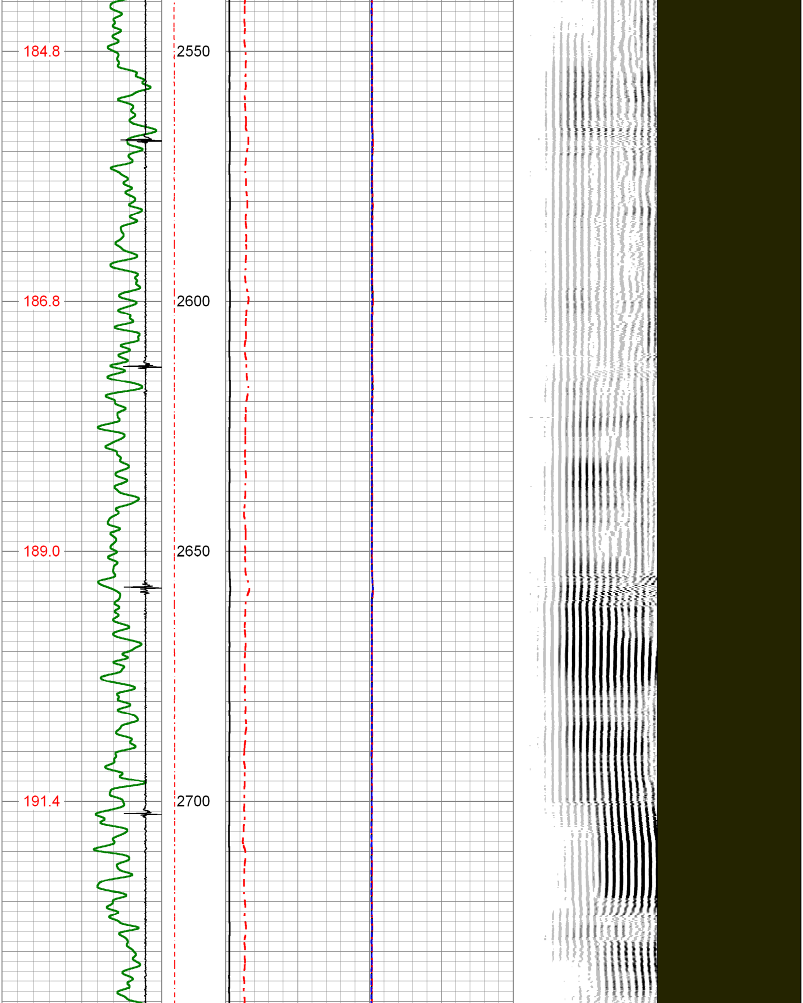


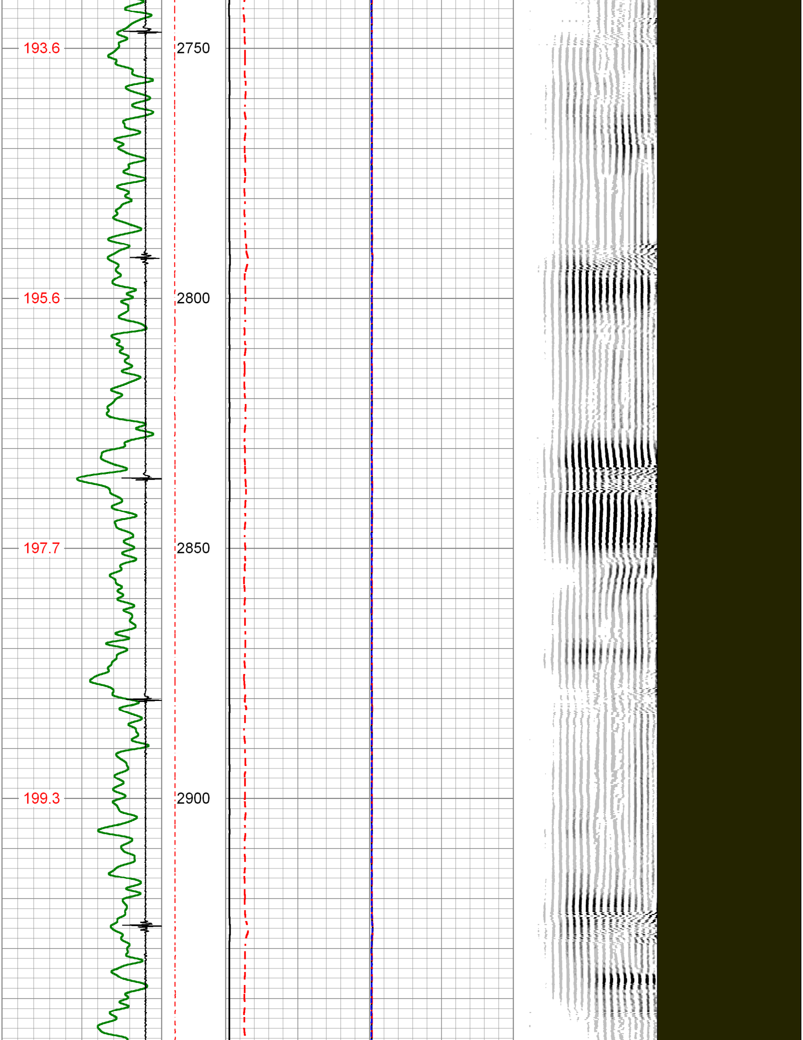


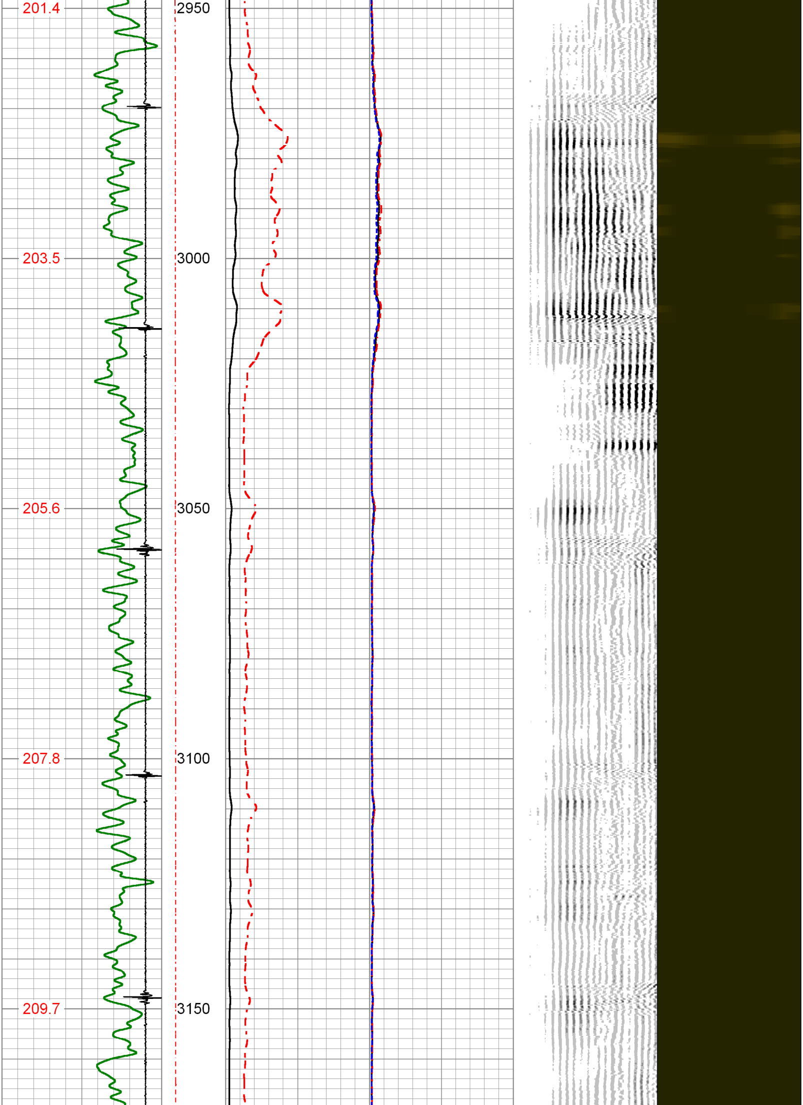


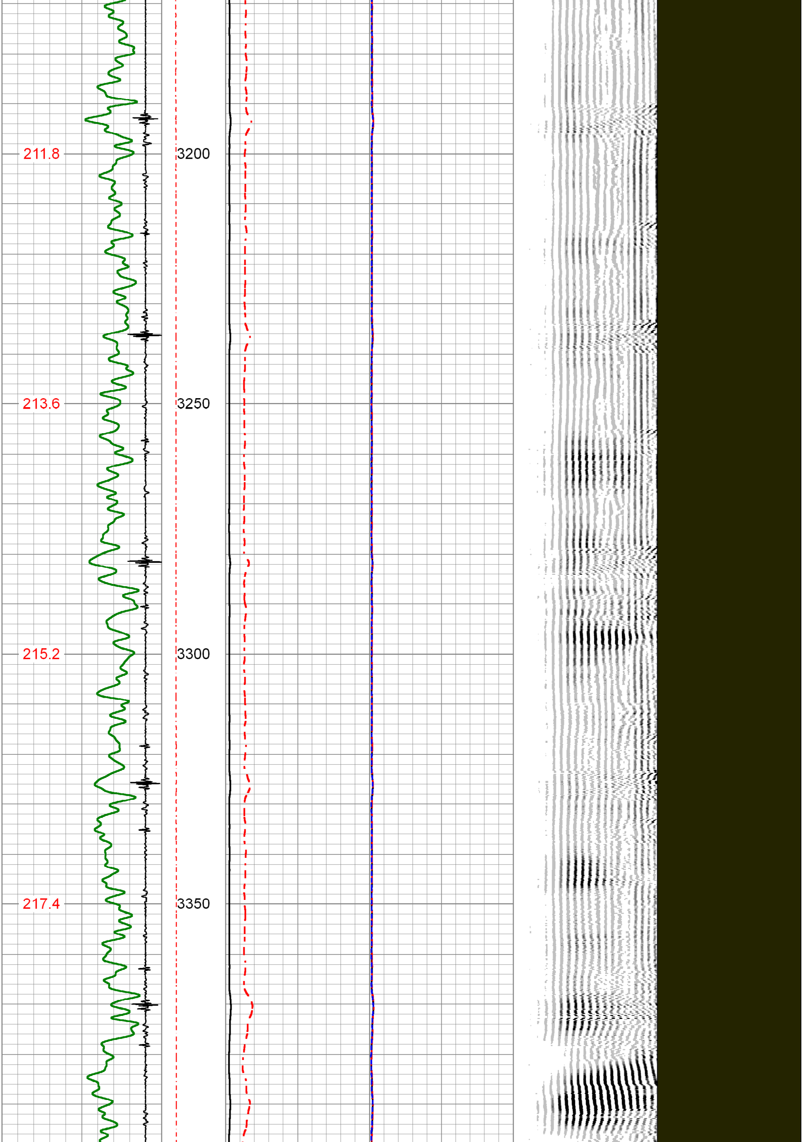


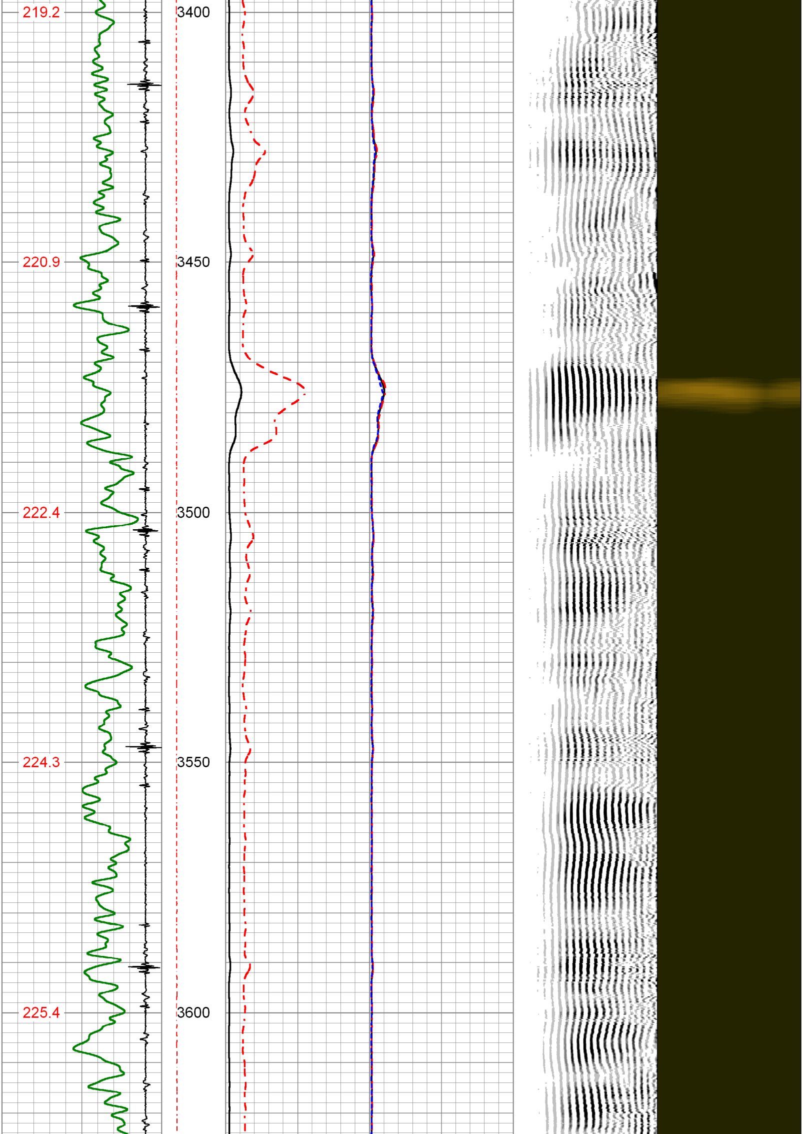


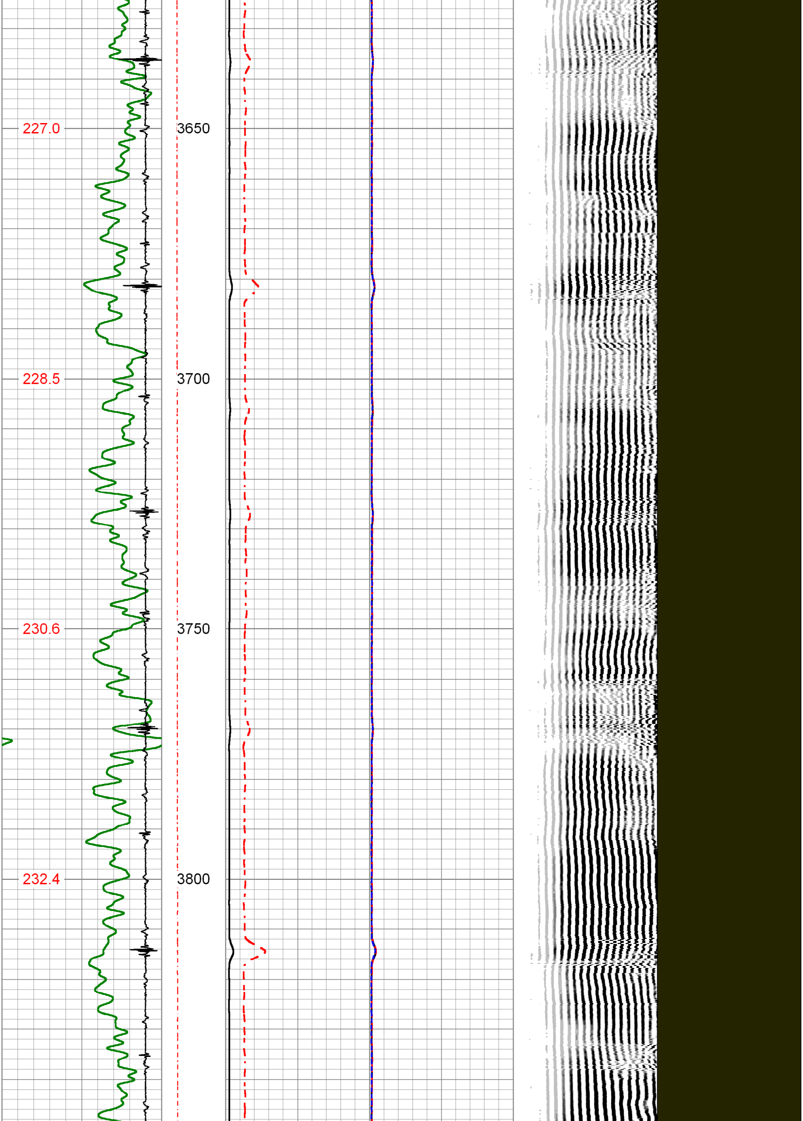


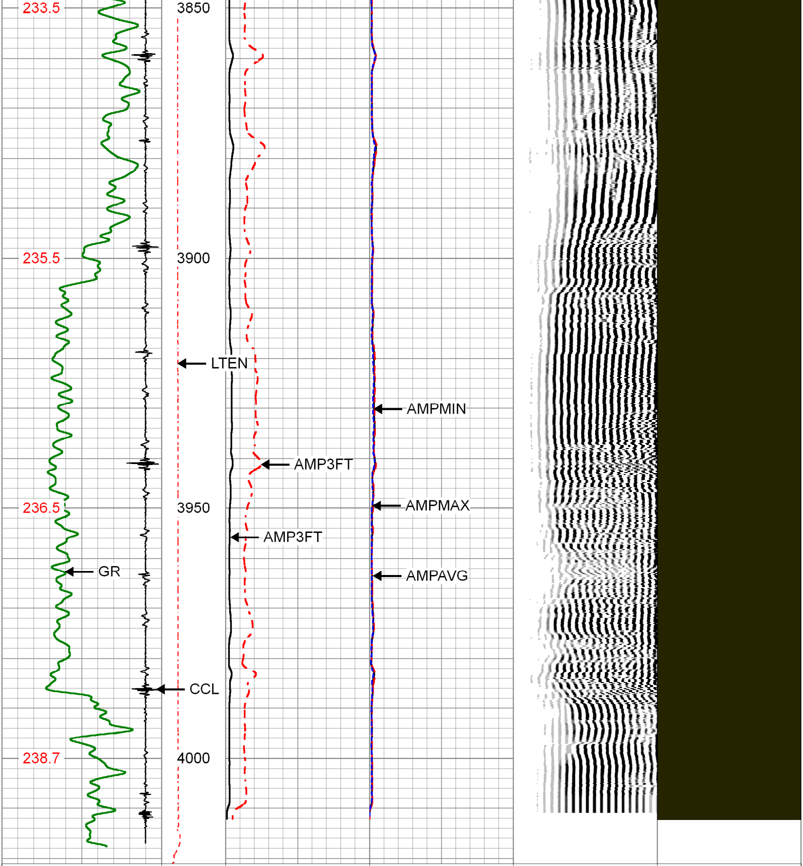












3' Travel Time
287 (usec) 187

Gamma Ray
0 (GAPI) 100

-27 CCL 3

TEMP
(degF)

Line Tension
0 (l3000

3' Amplitude
0 (mV) 100

3' Amplified Amplitude X 5
0 (mV) 20

Sector Amplitude Average
0 150

Sector Amplitude Maximum
0 150

Sector Amplitude Minimum
0 150

200 VDL 1200

1 Sector Map 8
10 60

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MAIN LOG

0 PSI APPLIED AT SURFACE

Database File	alta mesa_barlow 1-14_20180208_rcbl-tcp-press-temp.db
Dataset Pathname	pass8.1
Presentation Format	pinr_scbl
Dataset Creation	Thu Feb 08 17:01:45 2018
Charted by	Depth in Feet scaled 1:600

3' Travel Time
287 (usec) 187

Gamma Ray
0 (GAPI) 100

-27 CCL 3

TEMP
(degF)

Line Tension
0 (l3000

3' Amplitude
0 (mV) 100

3' Amplified Amplitude X 5
0 (mV) 20

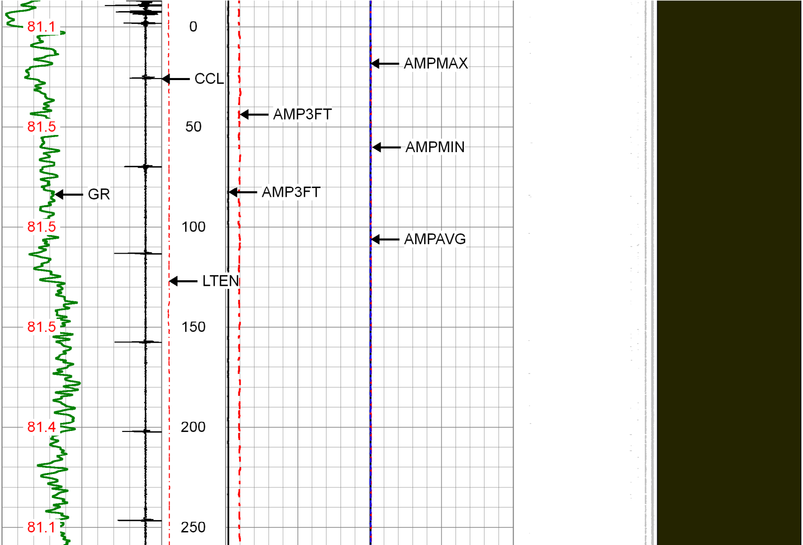
Sector Amplitude Average
0 150

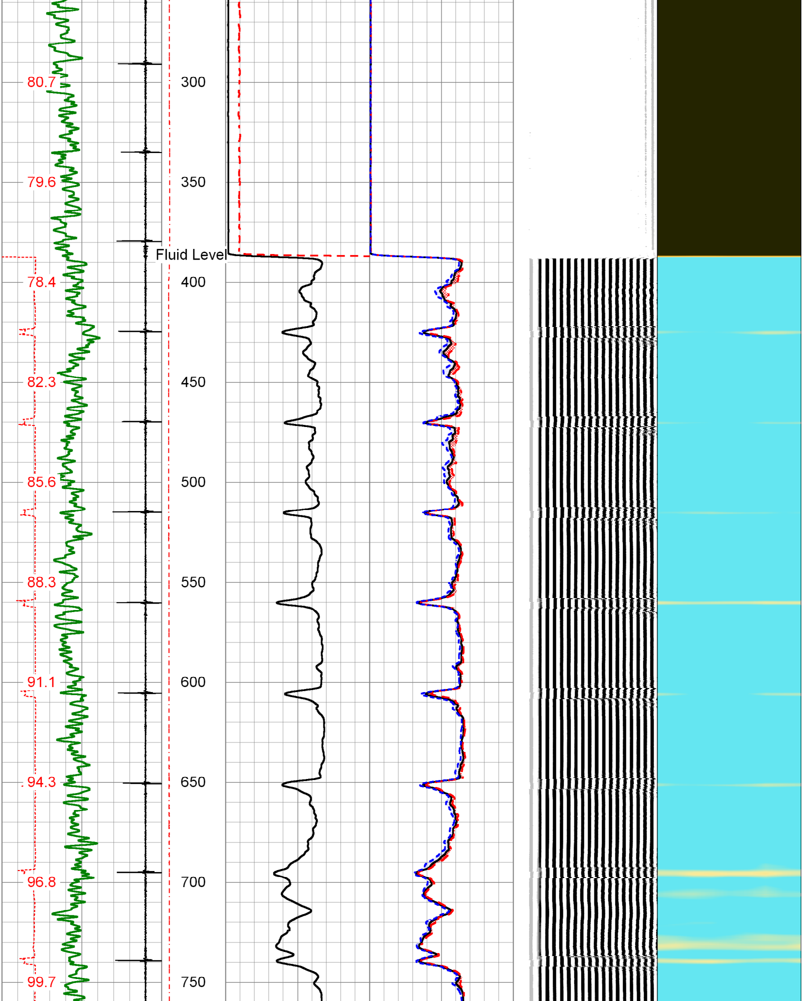
Sector Amplitude Maximum
0 150

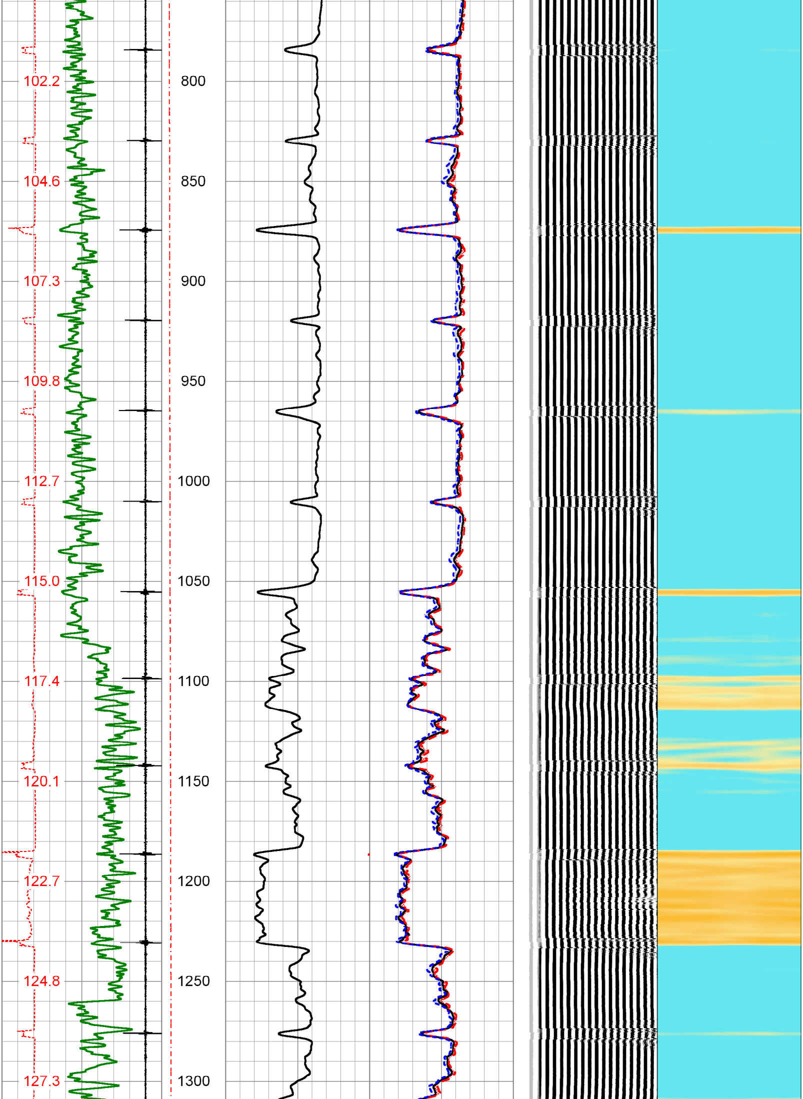
Sector Amplitude Minimum
0 150

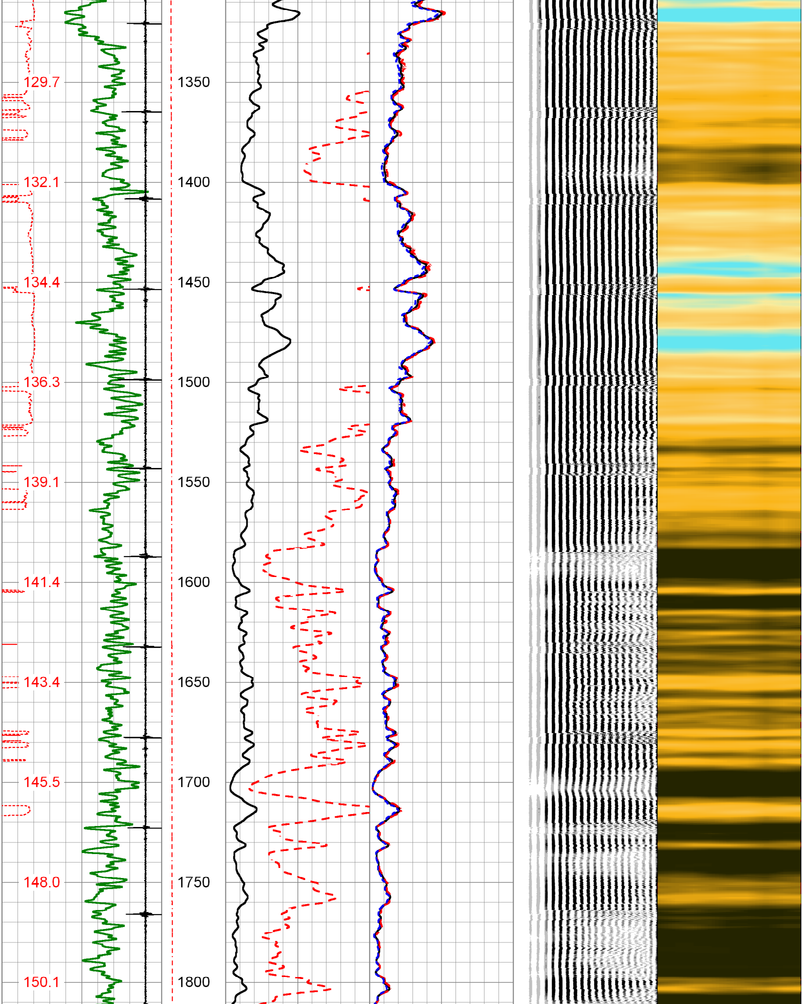
200 VDL 1200

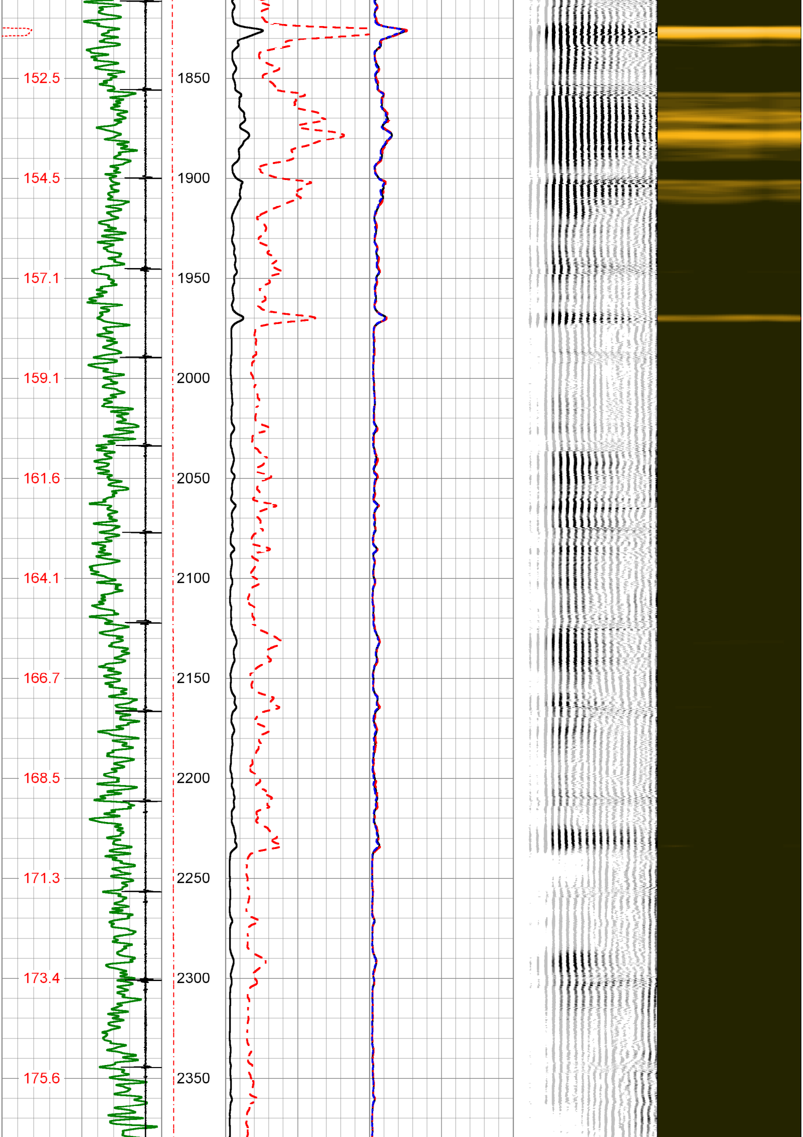
1 Sector Map 8
10 60

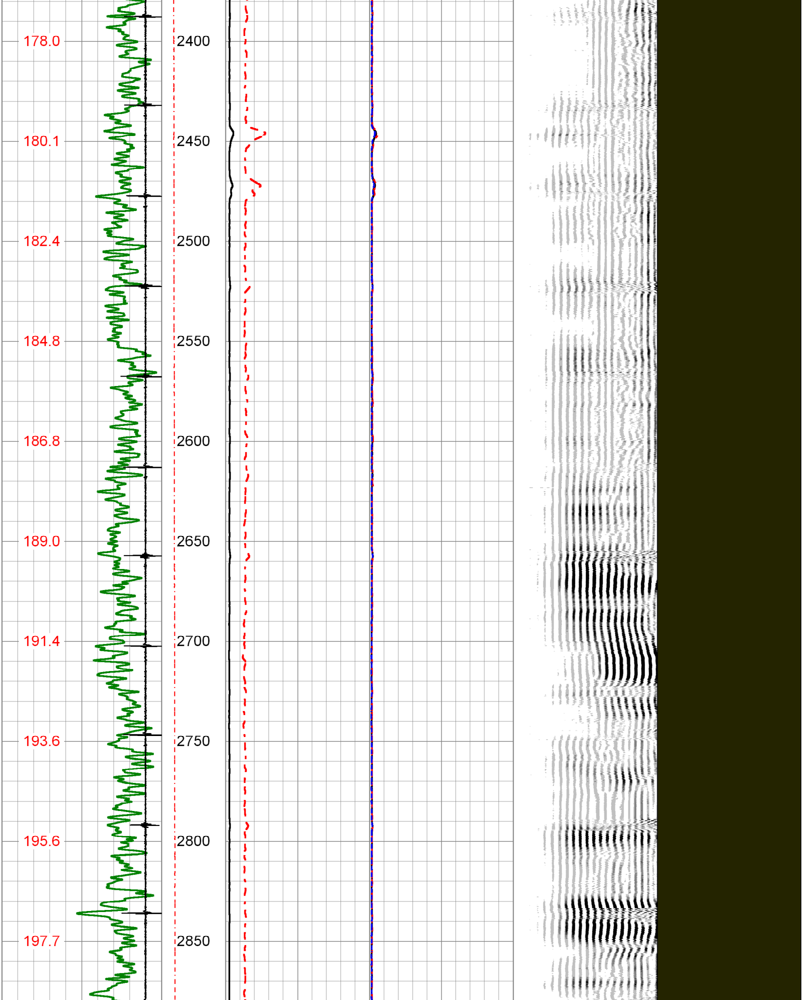


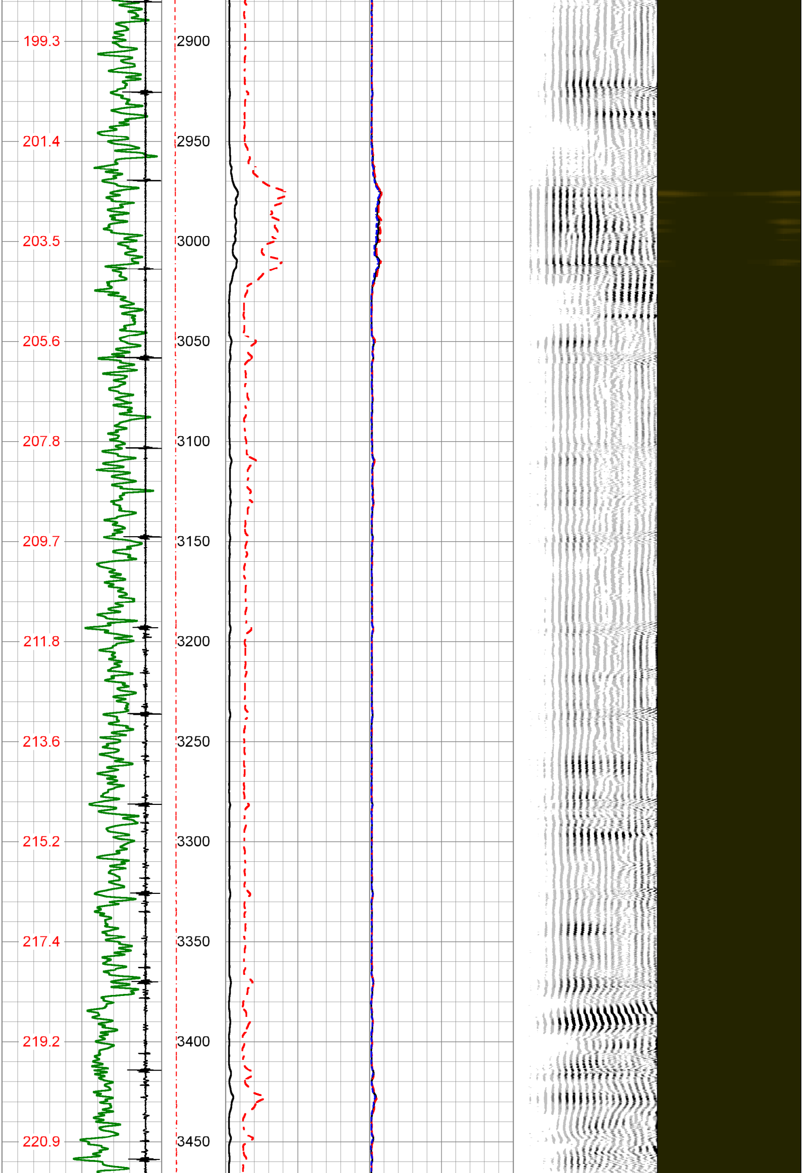


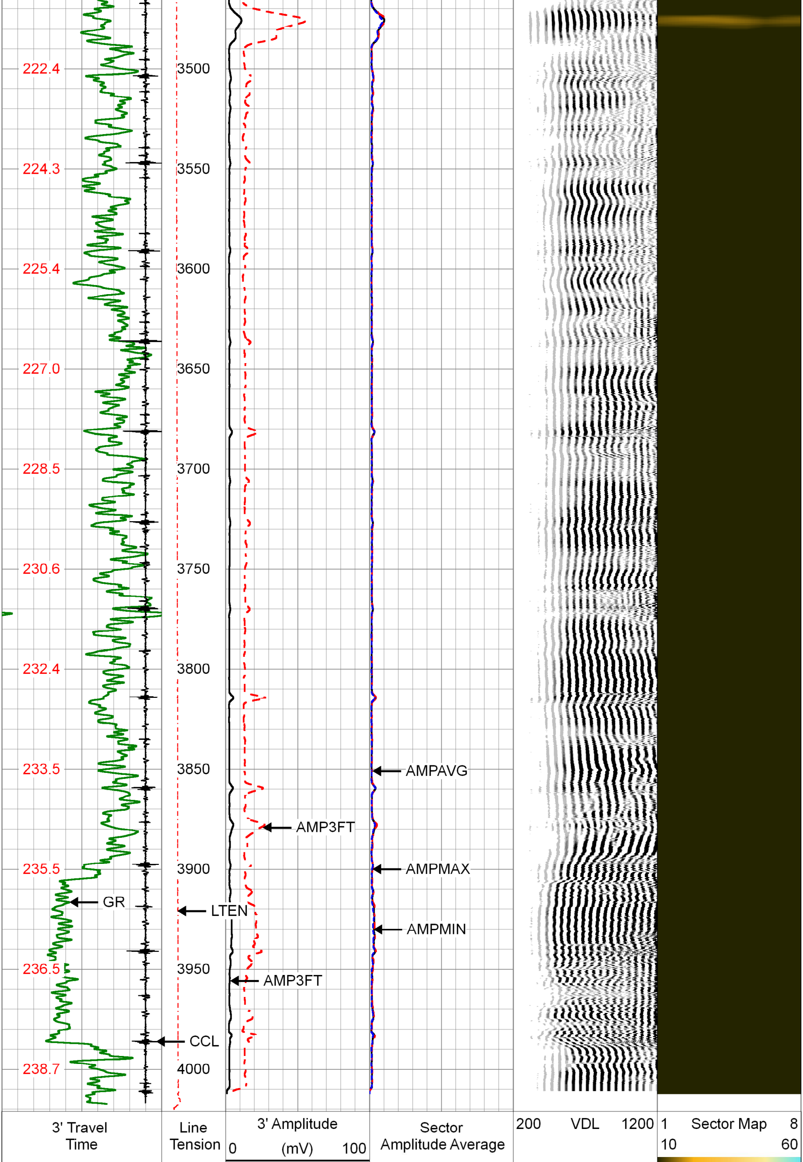












287 (usec) 187

Gamma Ray

0 (GAPI) 100

-27 CCL 3

TEMP

(degF)

0 (l3000

3' Amplified Amplitude X 5

0 (mV) 20

0 150

Sector Amplitude Maximum

0 150

Sector Amplitude Minimum

0 150

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Pioneer Energy Services

REPEAT SECTION

0 PSI APPLIED AT SURFACE

Database File	alta mesa_barlow 1-14_20180208_rcbl-tcp-press-temp.db
Dataset Pathname	pass7
Presentation Format	pinr_scbl
Dataset Creation	Thu Feb 08 15:48:37 2018
Charted by	Depth in Feet scaled 1:240

3' Travel Time

287 (usec) 187

Gamma Ray

0 (GAPI) 100

-9 CCL 1

TEMP

(degF)

Line Tension

0 (l3000

3' Amplitude

0 (mV) 100

3' Amplified Amplitude X 5

0 (mV) 20

Sector Amplitude Average

0 150

Sector Amplitude Maximum

0 150

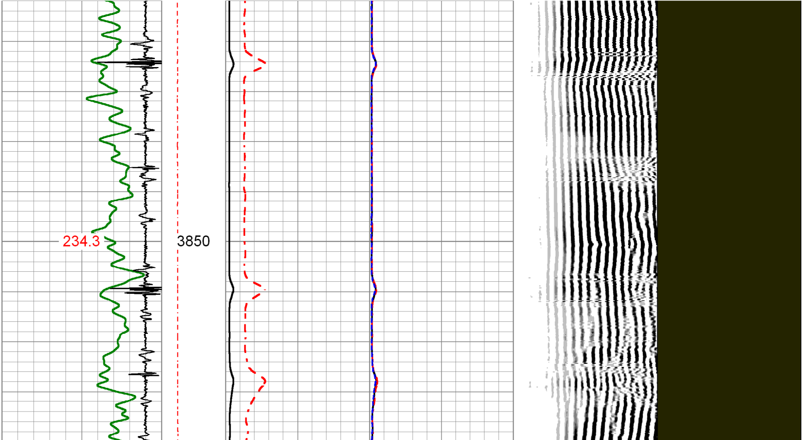
Sector Amplitude Minimum

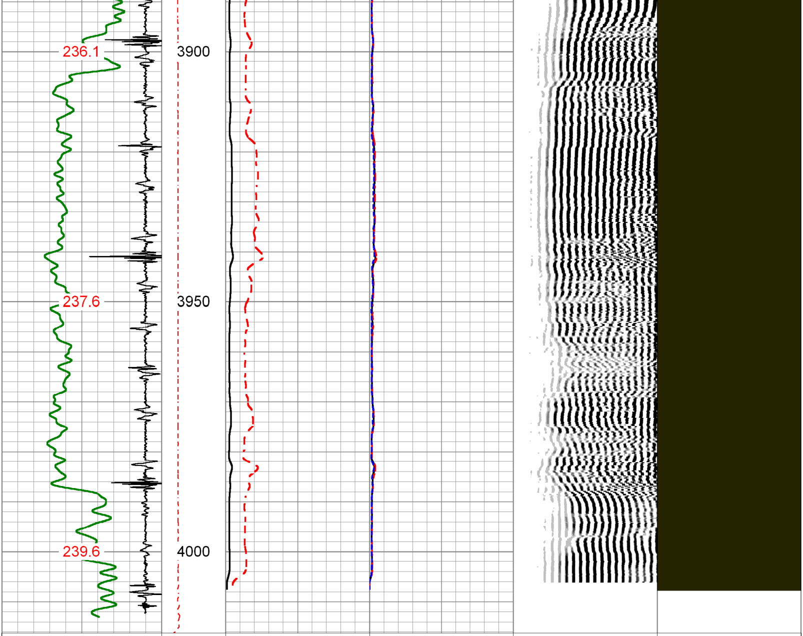
0 150

200 VDL 1200

1 Sector Map 8

10 60





3' Travel Time 287 (usec) 187 Gamma Ray 0 (GAPI) 100 -9 CCL 1 TEMP (degF)	Line Tension 0 (l3000	3' Amplitude 0 (mV) 100 3' Amplified Amplitude X 5 0 (mV) 20	Sector Amplitude Average 0 150 Sector Amplitude Maximum 0 150 Sector Amplitude Minimum 0 150	200 VDL 1200	1 Sector Map 8 10 60

Calibration Report

Database File	alta mesa_barlow 1-14_20180208_rcbl-tcp-press-temp.db
Dataset Pathname	pass7
Dataset Creation	Thu Feb 08 15:48:37 2018

Gamma Ray Calibration Report

Serial Number:	1206-72	
Tool Model:	275 Probe GR-CCL	
Performed:	Thu Feb 08 15:21:37 2018	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.6000	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	FW1210-41	
Tool Model:	275 Probe w Temp	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	648.958	ft

Master Calibration, performed Thu Feb 08 15:36:11 2018:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	1.708	1.000	71.921	39.526	0.993
CAL	-0.001	1.487				
5'	-0.001	1.646	1.000	71.921	41.064	1.044
SUM						
S1	-0.004	1.642	0.000	100.000	60.737	0.259
S2	0.001	1.767	0.000	100.000	56.638	-0.065
S3	-0.000	1.851	0.000	100.000	54.011	0.005
S4	-0.000	1.901	0.000	100.000	52.597	0.012
S5	0.001	1.943	0.000	100.000	51.481	-0.048
S6	-0.001	1.831	0.000	100.000	54.586	0.041
S7	-0.000	1.770	0.000	100.000	56.488	0.028
S8	-0.000	1.653	0.000	100.000	60.495	0.018

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.001	1.487	1.000	0.000

Air Zero Calibration, performed Thu Feb 08 15:18:11 2018:

	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: FW1210-41
Tool Model: 275 Probe w Temp
Performed: Thu Feb 08 15:21:40 2018

	Reference		Reading	
Low Reference:	0.00	degF	0.00	degF
High Reference:	1.00	degF	1.00	degF

Gain: 1.00
Offset: 0.00
Delta Spacing 1

PIONEER
Pioneer Energy Services

Company	ALTA MESA SERVICES LLC
Well	BARLOW 1-14
Field	WILDCAT
County	PAYETTE
State	IDAHO