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Pioneer Energy Services

RADIAL BOND LOG WITH GAMMA RAY

Comp. ALTA MESA SERVICES LLC
Well FALLON 1-10
Field WILDCAT
Co. PAYETTE
State IDAHO

Company	**ALTA MESA SERVICES LLC**
Well	**FALLON 1-10**
Field	**WILDCAT**
County	**PAYETTE**
State	**IDAHO**

Location: API # : 11-075-20032
1533' FWL & 2042' FSL
SEC 10 TWP 8N RGE 5W

Other Services
GR

Permanent Datum	G.L.	Elevation 2155'	
Log Measured From	K.B. 12'	Above Perm. Datum	
Drilling Measured From	K.B.		

Elevation
K.B. 2167'
D.F. 2167'
G.L. 2155'

Date of Service	MAR 7, 2018		
Run Number	3		
Depth Driller or PBTD	5434'		
Depth Logger	5341'		
Bottom Log Interval	5341'		
Top Log Interval	SURFACE		
Open Hole Size	8-1/2"		
Type Fluid	WATER		
Fluid Level	SURFACE		
Fluid Density	N/A		
Max. Recorded Temperature	266 F		
Max. Wellhead Pressure	1500 PSI		
Wellhead Connection	7-1/16" 5K		
Estimated Cement Top	N/A		
Unit Number	P-28		
Wireline Size	5/16"		
Location	CASPER		
Recorded By	BRAEDON GERMANN		
Witnessed By	TOM DOLENCE		

	Size	Wt/Ft	Top	Bottom
Tubing Record				
Surface Casing	9-5/8"	40#	SURFACE	1094'
Production Casing	5-1/2"	17#	SURFACE	5434'
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.
CORELATED TO WEATHERFORD QUICKLOOK LOG DATED FEB 19, 2018

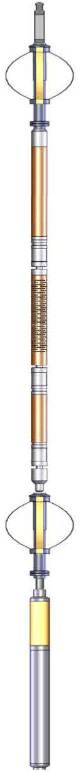
THANK YOU FOR USING PIONEER ENERGY SERVICES!

Your Pioneer Energy Services Crew
Engineer: TED W
Operator: BRAEDON G
Operator: DEREK
Operator:

Tool Data - Services	Serial Number
PROBE GR-CCL	FW-1211-83
PROBE RCBL	FW-1212-58

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
CCL	3.63
GR	2.58

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 New Mod (FW1[illegible]58) 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
Bullnose-Titan GO Pin Pressure Cap	0.27	1.38	1.00
GR_CCL-275 Probe GR-CCL Corrosion (F[illegible]211-8[illegible] Probe 2 3/4" Gamma Ray / CCL Corrosion Digital	4.54	2.75	60.00

Dataset: altamesa_fallon1-10_1107520032_20180305_gr-cbl.db: field/well/run2/pass20
Total length: 19.33 ft
Total weight: 198.00 lb
O.D.: 2.75 in

Log Variables

Database c:\programdata\warrior\data\altamesa_fallon1-10_1107520032_20180305_gr-cbl\alta
Dataset field/well/run2/pass20/_vars_

Top - Bottom

BHTEMP_Src	PPT usec	CASEWGHT lb/ft	MAXAMPL mV	MINAMPL mV	MINATTN db/ft	SRFTEMP degF
TEMP	0	17	0	1	0.8	0
CASETHCK in	CASEOD in	PERFS	TDEPTH ft	BOTTEMP degF	BOREID in	
0	5.5	0	0	100	7.875	

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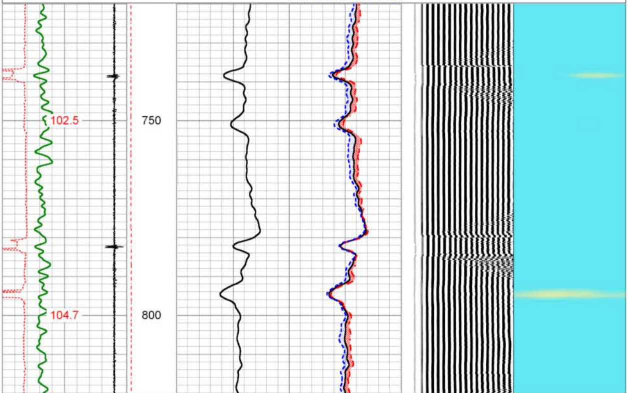
FREE PIPE SECTION

0 PSI APPLIED AT SURFACE

Database File	altamesa_fallon1-10_1107520032_20180305_gr-cbl\altamesa_fallon1-10_1107520032_20180
Dataset Pathname	run2/pass17
Presentation Format	pinr_scbl
Dataset Creation	Tue Mar 06 17:00:09 2018
Charted by	Depth in Feet scaled 1:240

3' Travel Time 287 (usec) 187	Line Tension 0 (|3000	3' Amplitude 0 (mV) 100	Sector Amplitude Average 0 150	200 VDL 1200	1 Sector Map 8 10 60
Gamma Ray 0 (GAPI) 150		3' Amplified Amplitude X 5 0 (mV) 20	Sector Amplitude Maximum 0 150		
CCL -18 2			Sector Amplitude Minimum 0 150		
TEMP (degF)					



3' Travel Time 287 (usec) 187 Gamma Ray 0 (GAPI) 150 -18 CCL 2 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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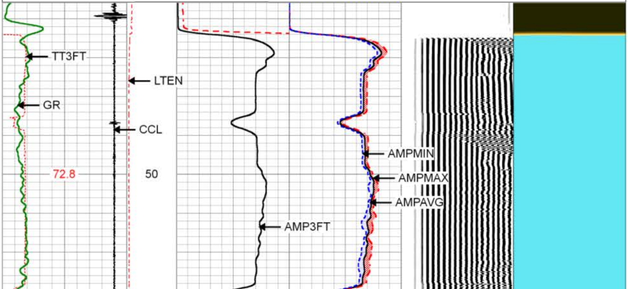
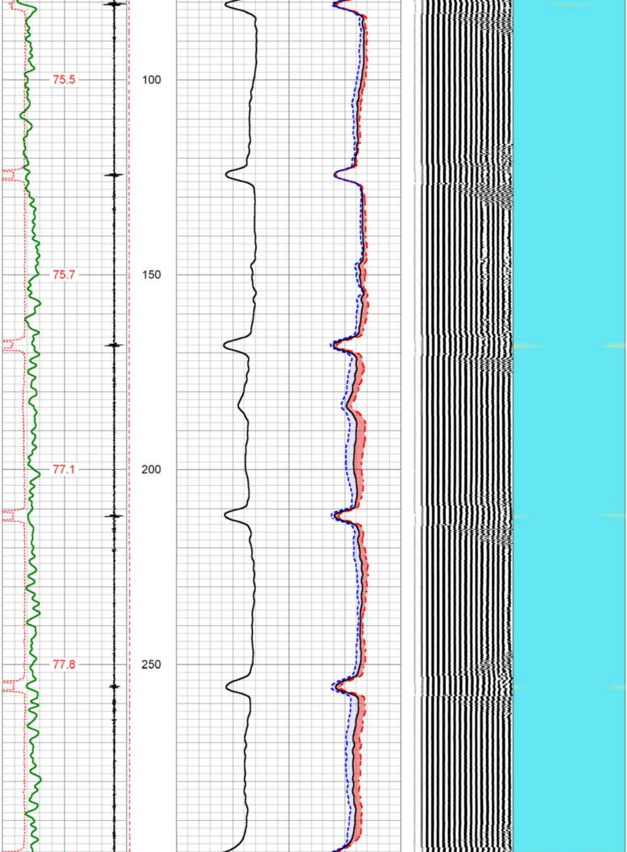
MAIN LOG

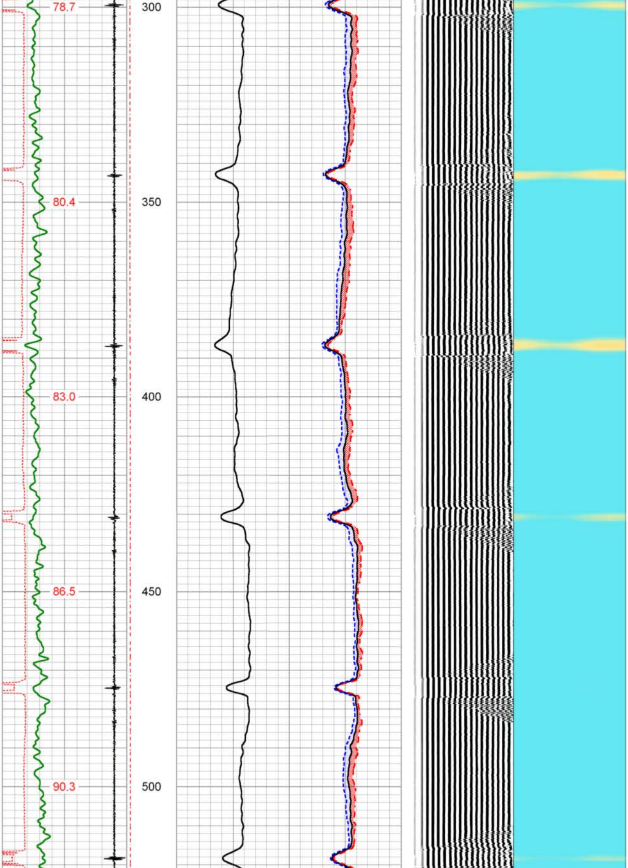
0 PSI APPLIED AT SURFACE

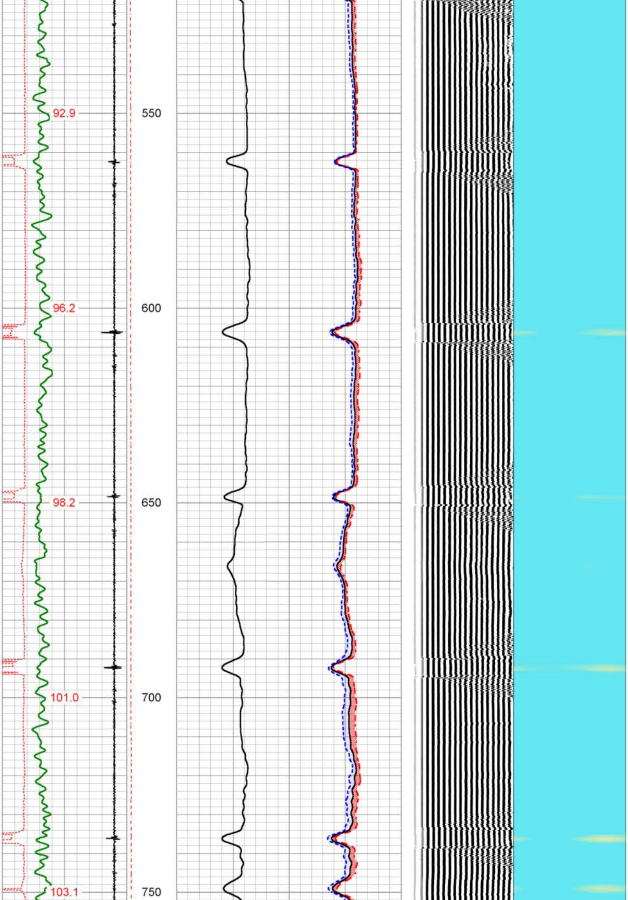
Database File	altamesa_fallon1-10_1107520032_20180305_gr-cbl\altamesa_fallon1-10_1107520032_201803
Dataset Pathname	run2/pass20
Presentation Format	pinr_scbl
Dataset Creation	Tue Mar 06 17:40:09 2018
Charted by	Depth in Feet scaled 1:240

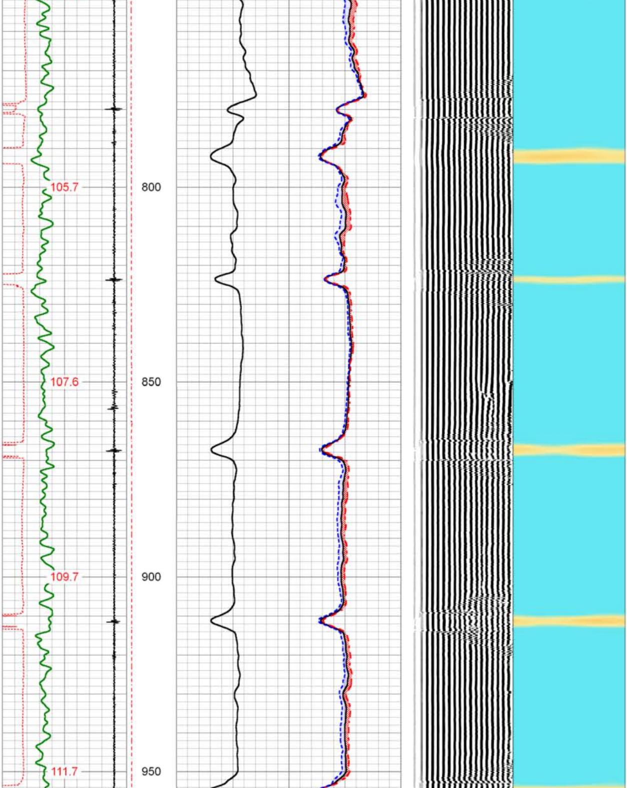
3' Travel Time 287 (usec) 187 Gamma Ray 0 (GAPI) 150 -18 CCL 2 TEMP (degF)	Line Tension 0 (l3000	3' Amplitude 0 (mV) 100 3' Amplified Amplitude X 5 0 (mV) 20	Sector Amplitude Average 0 150 Sector Amplitude Maximum 0 150 Sector Amplitude Minimum 0 150	200 VDL 1200	1 Sector Map 8 10 60

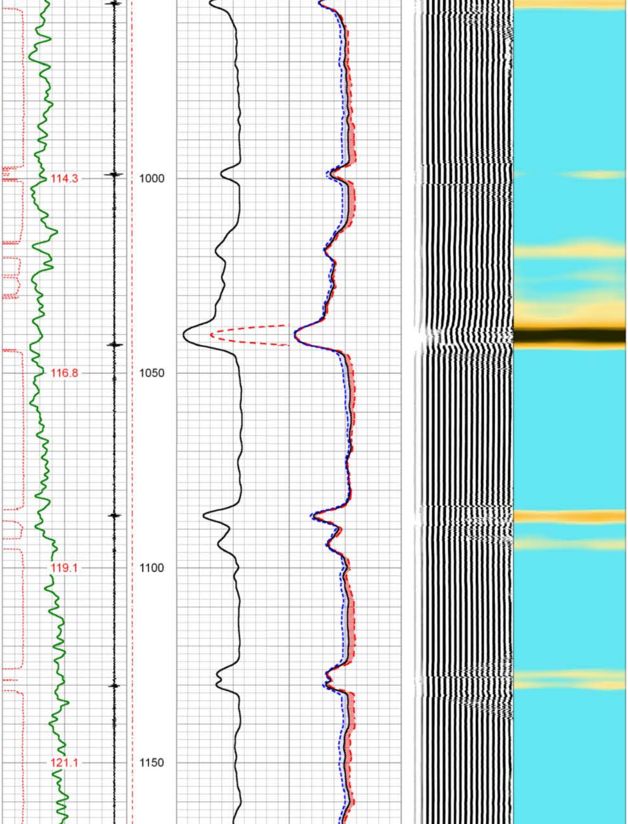


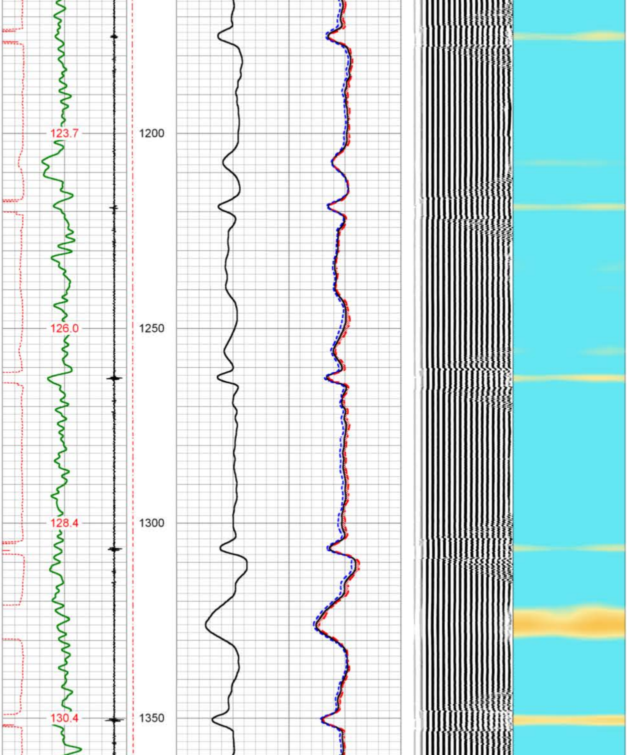


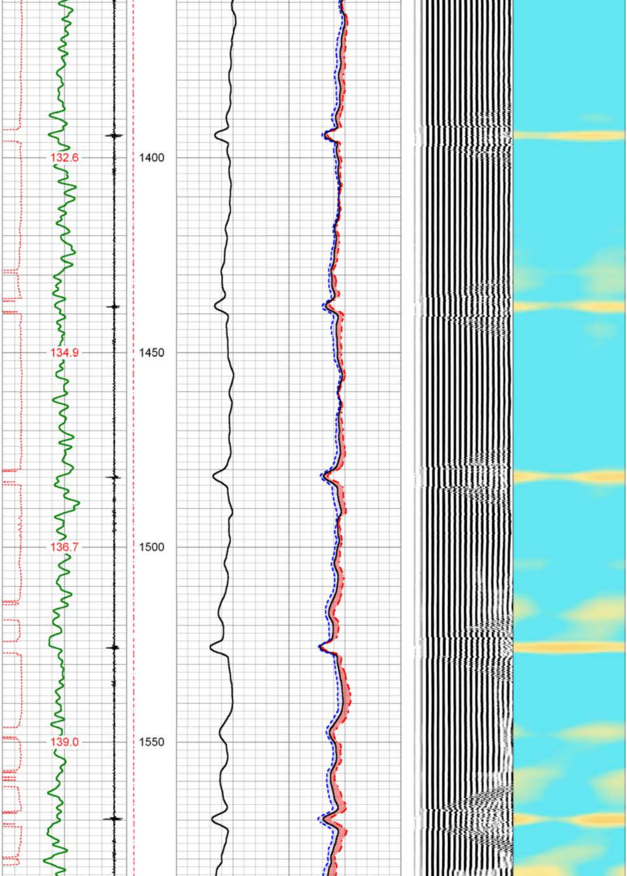


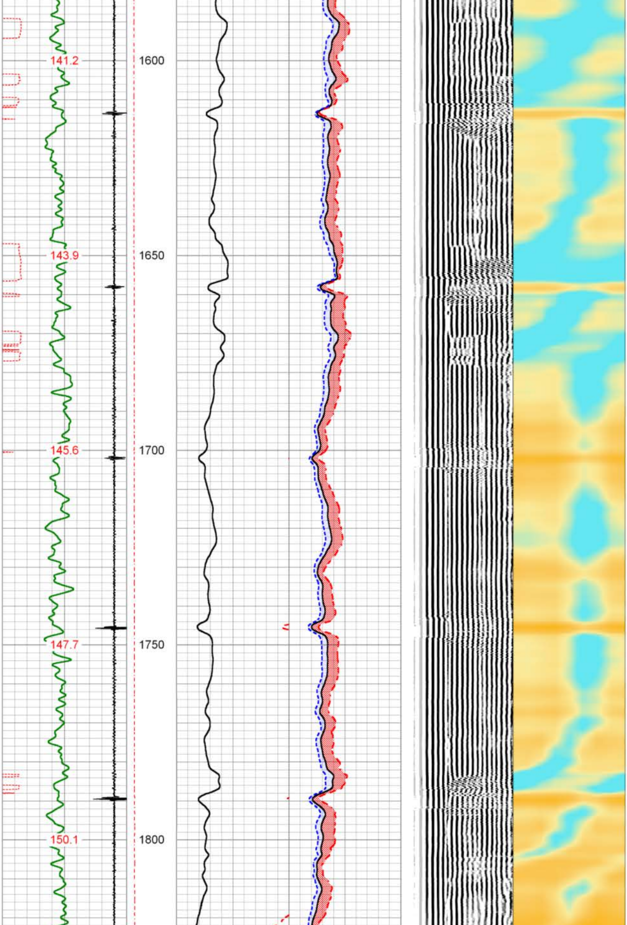


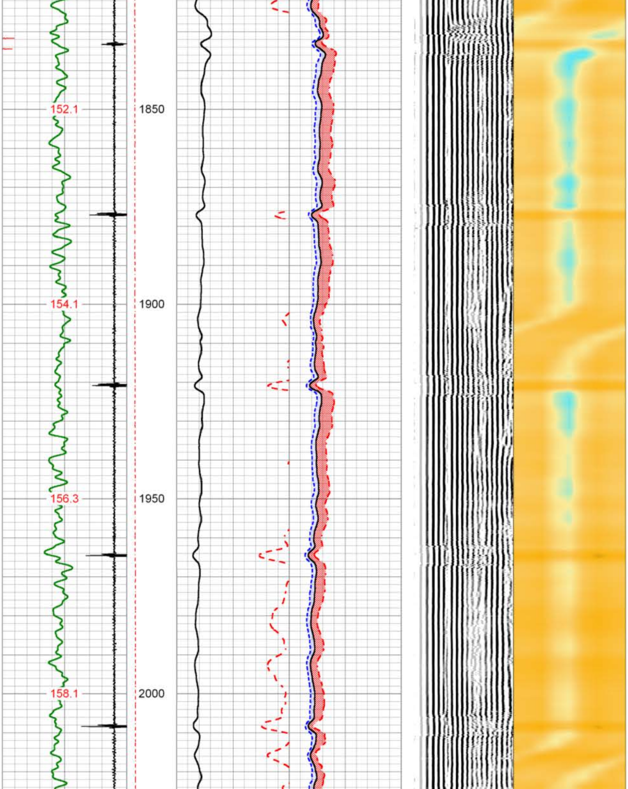


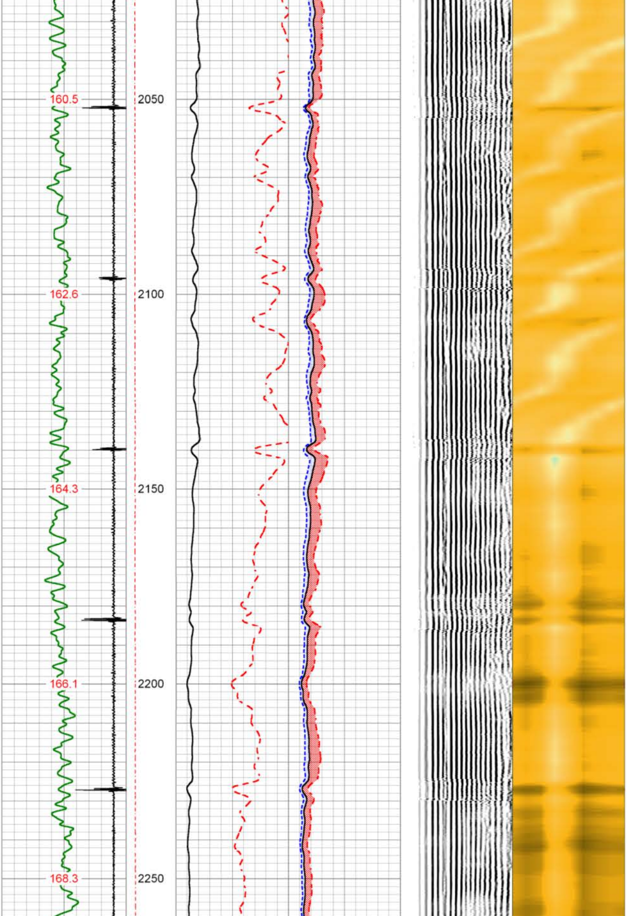


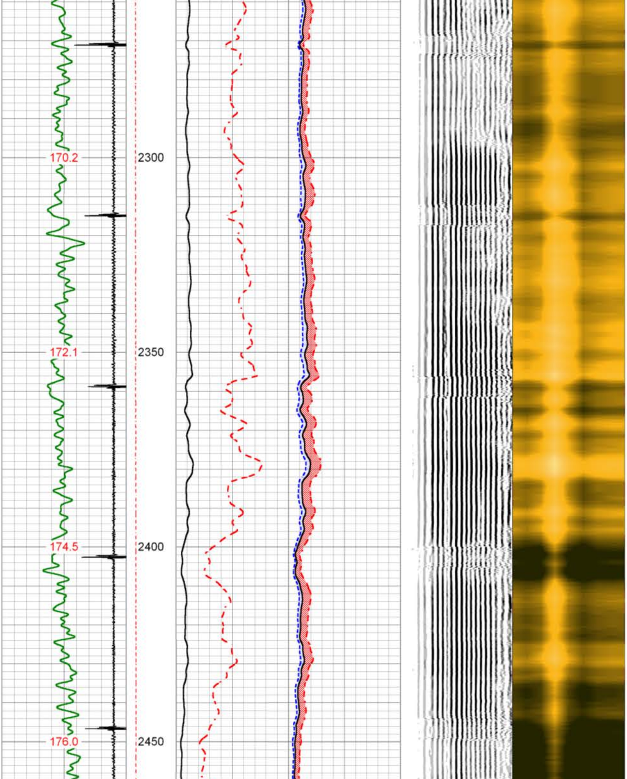


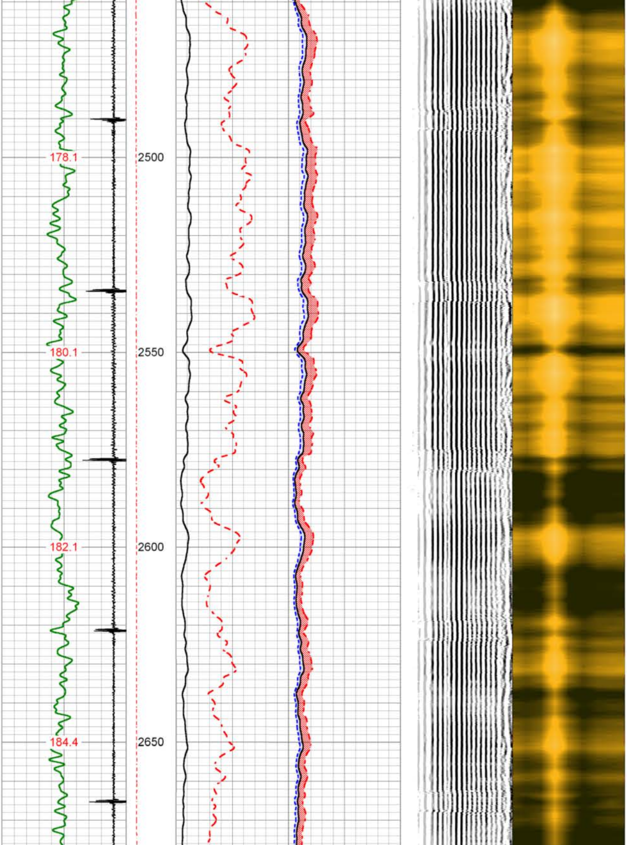


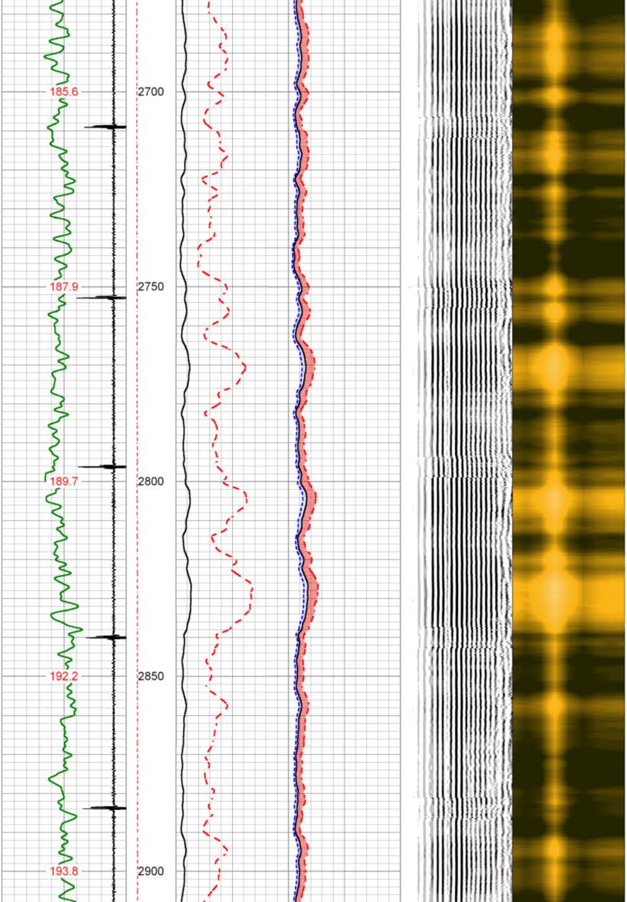


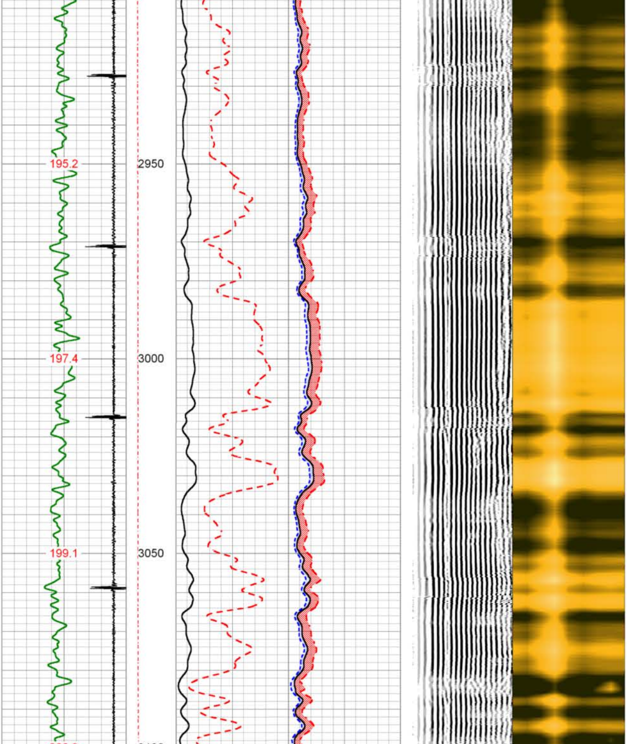


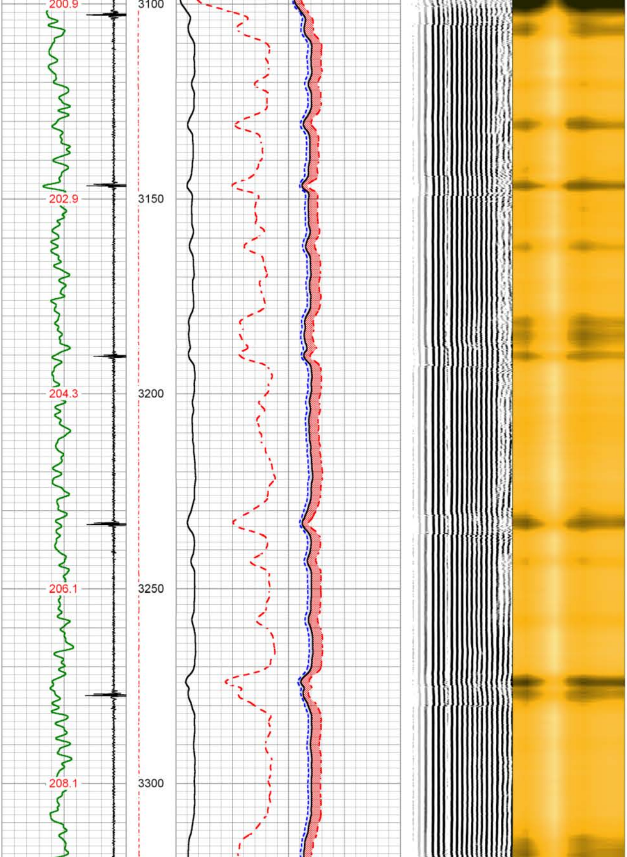


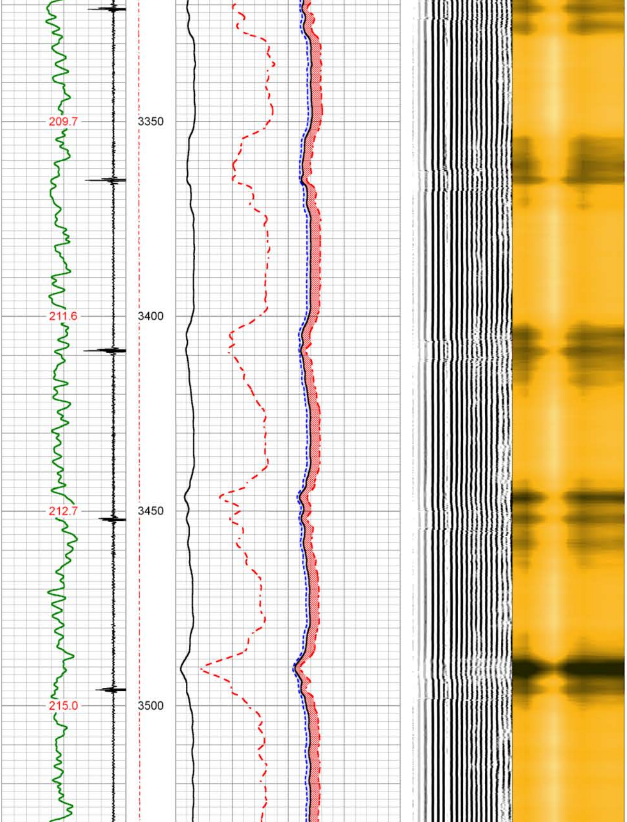


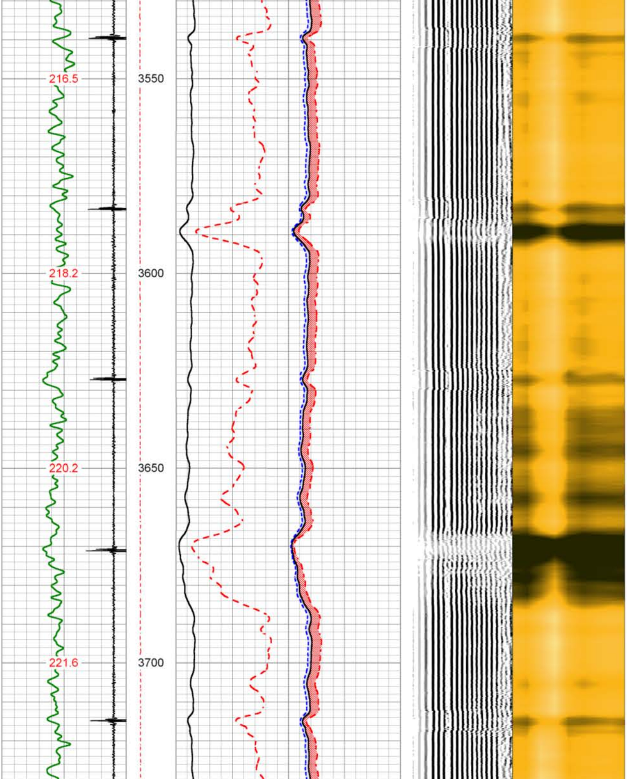


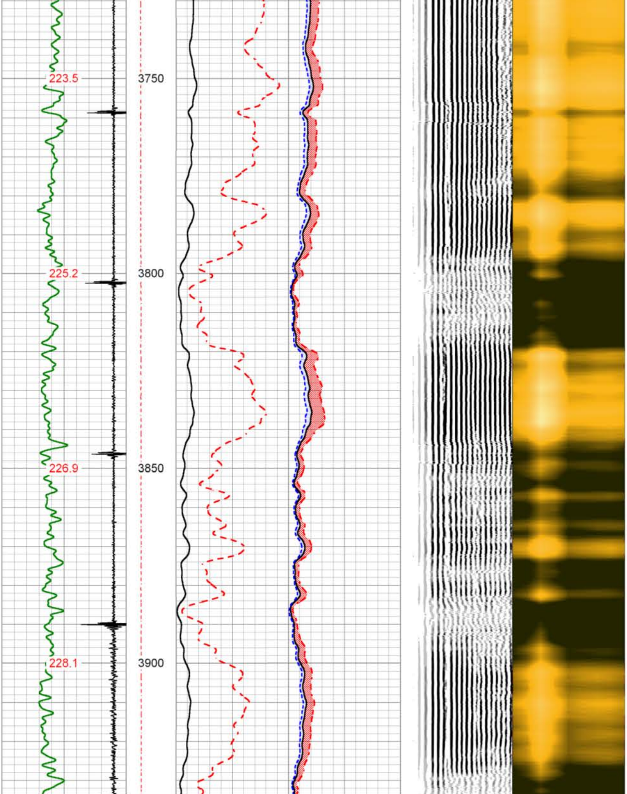


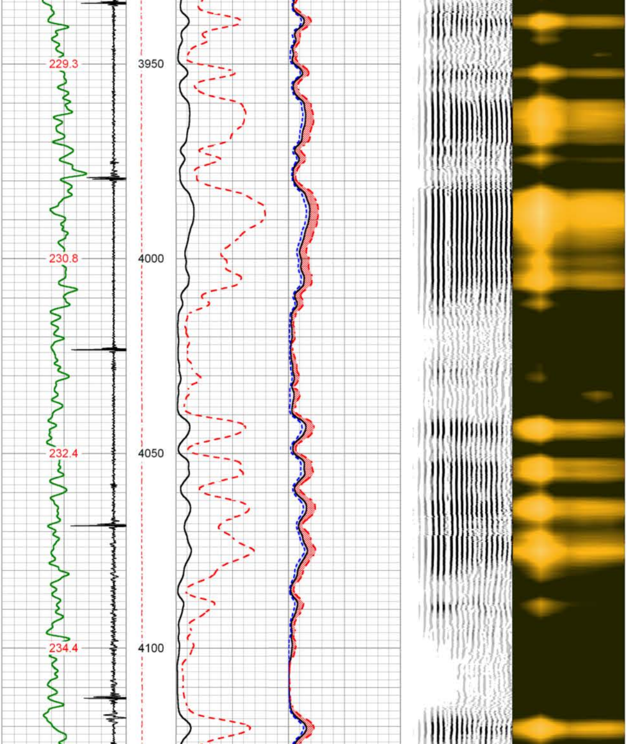


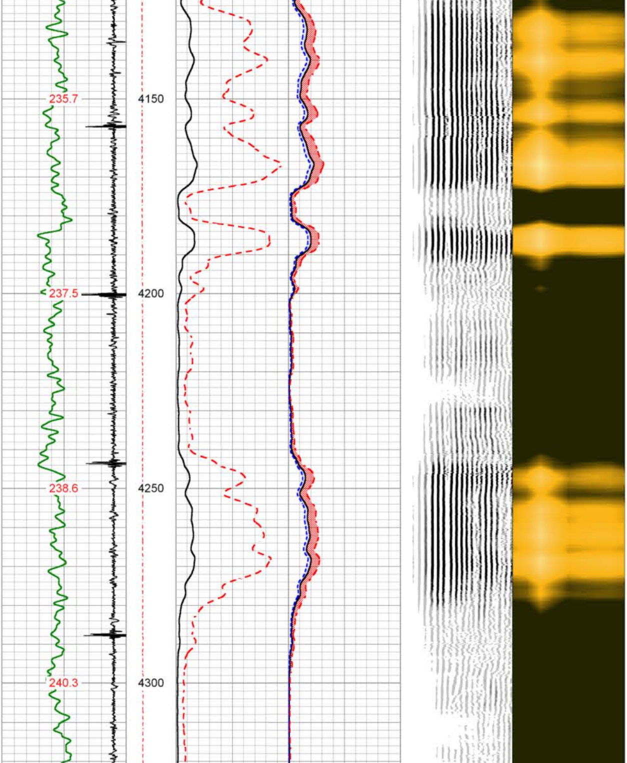


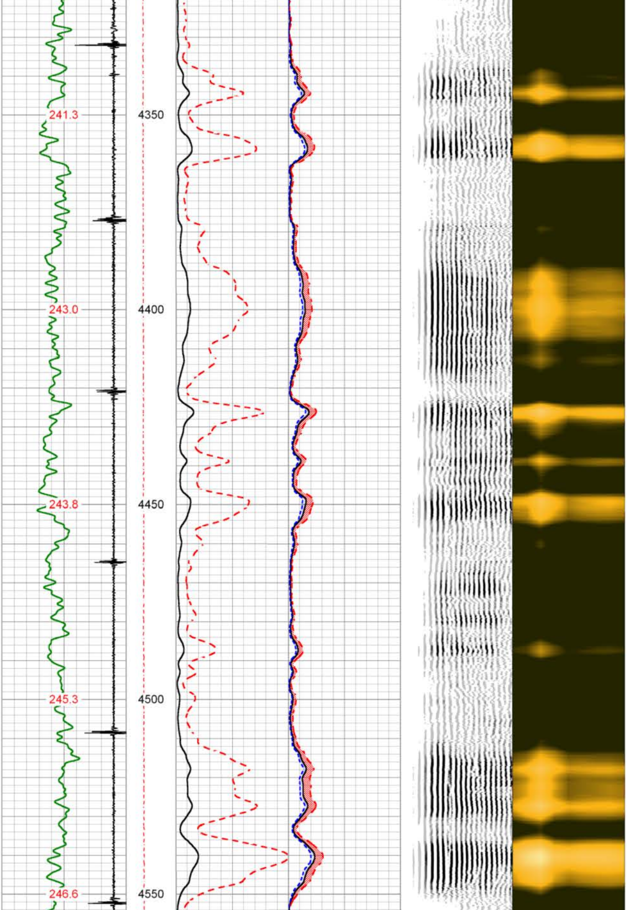


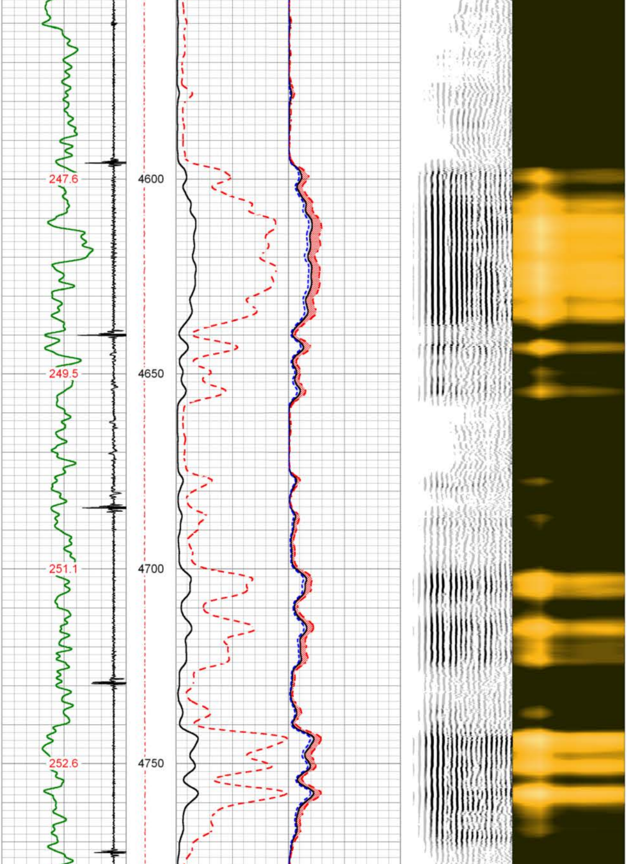


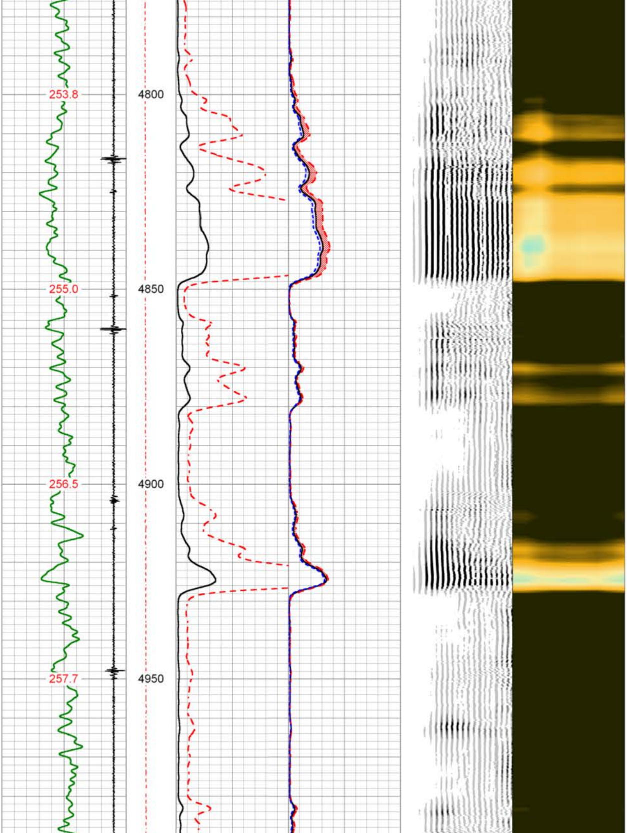


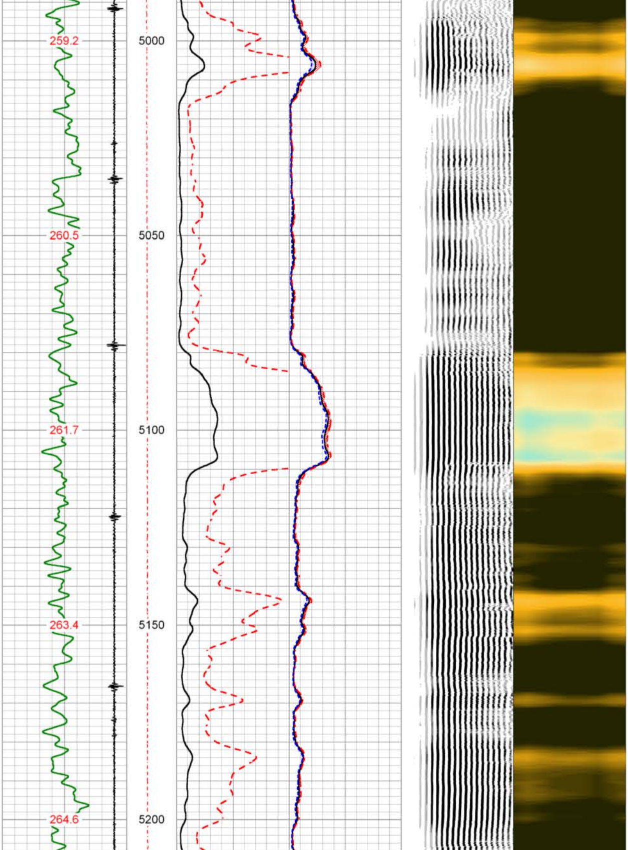


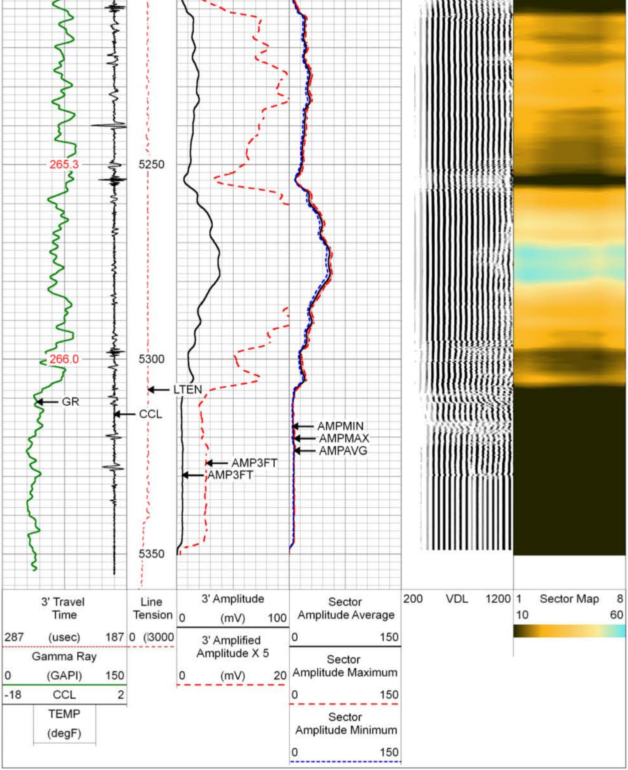












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MAIN LOG

1500 PSI APPLIED AT SURFACE

Database File	altamesa_fallon1-10_1107520032_20180305_gr-cbl\altamesa_fallon1-10_1107520032_201803
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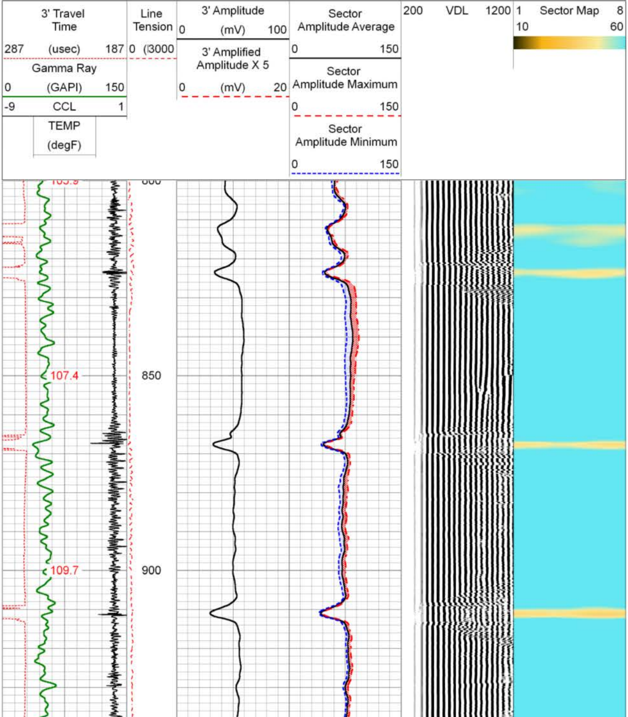
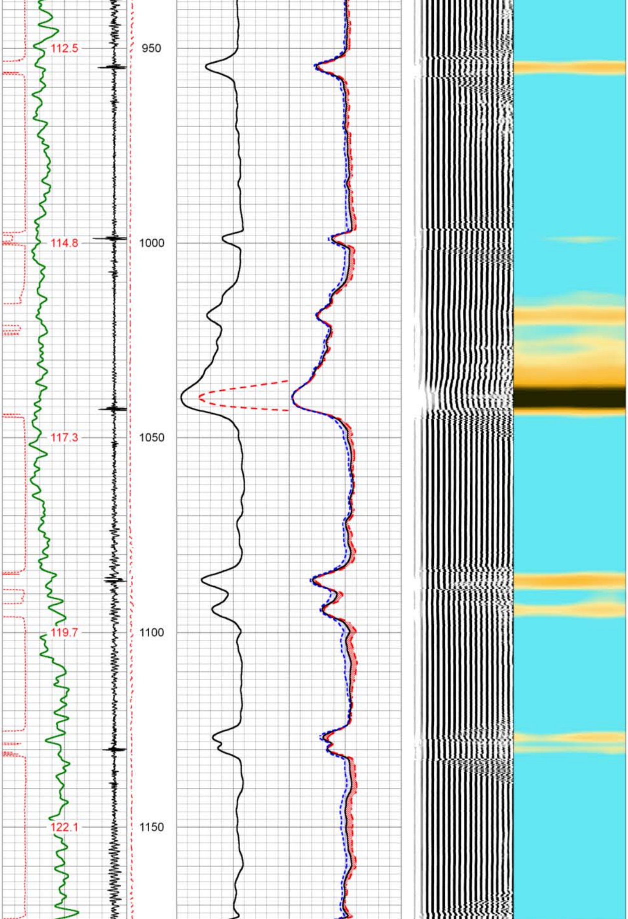
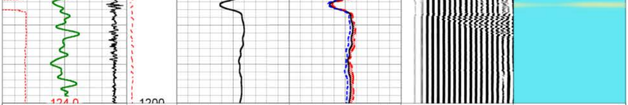
Presentation Format	pinr_scbl
Dataset Creation	Wed Mar 07 09:15:57 2018
Charted by	Depth in Feet scaled 1:240







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

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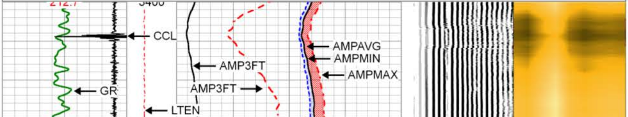
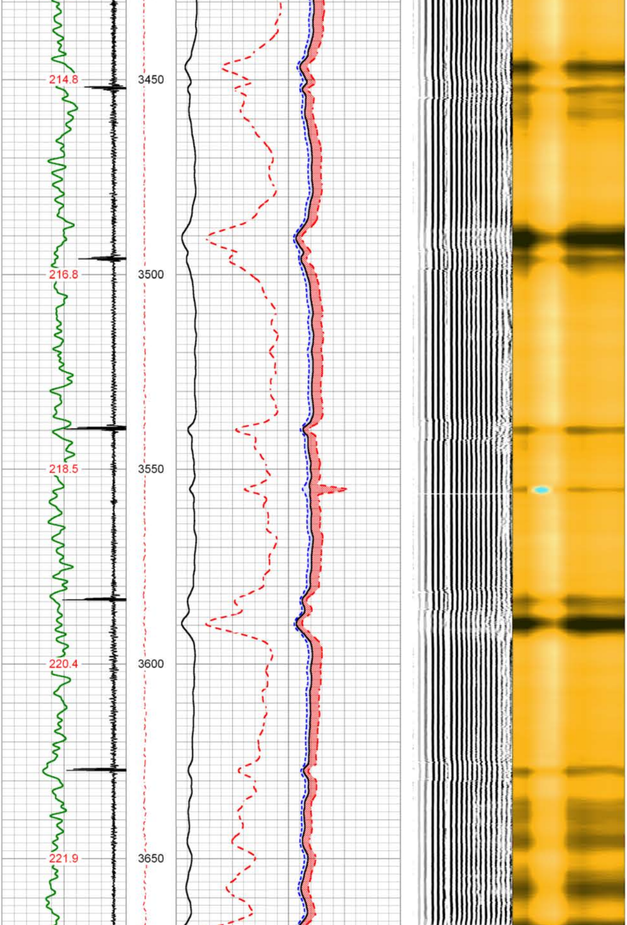
MAIN LOG

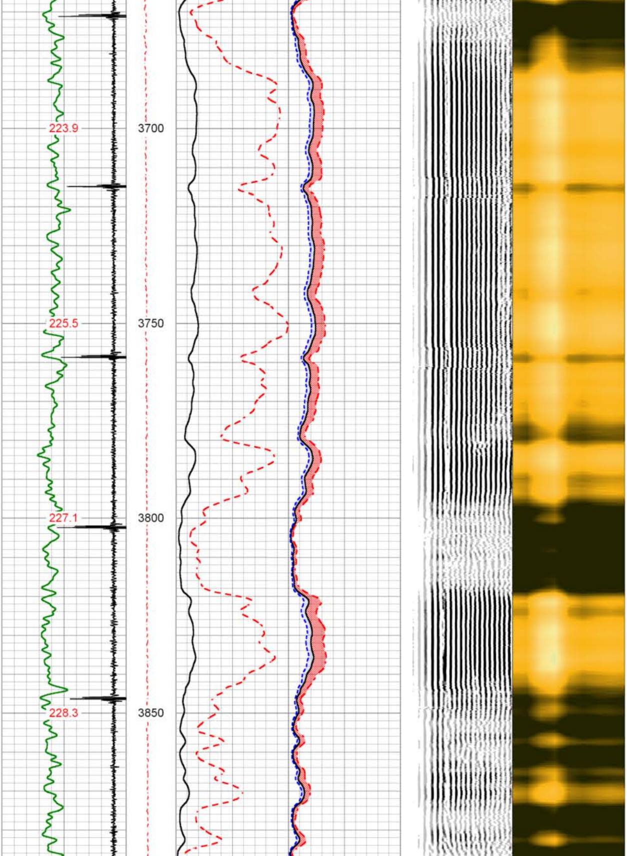
1500 PSI APPLIED AT SURFACE

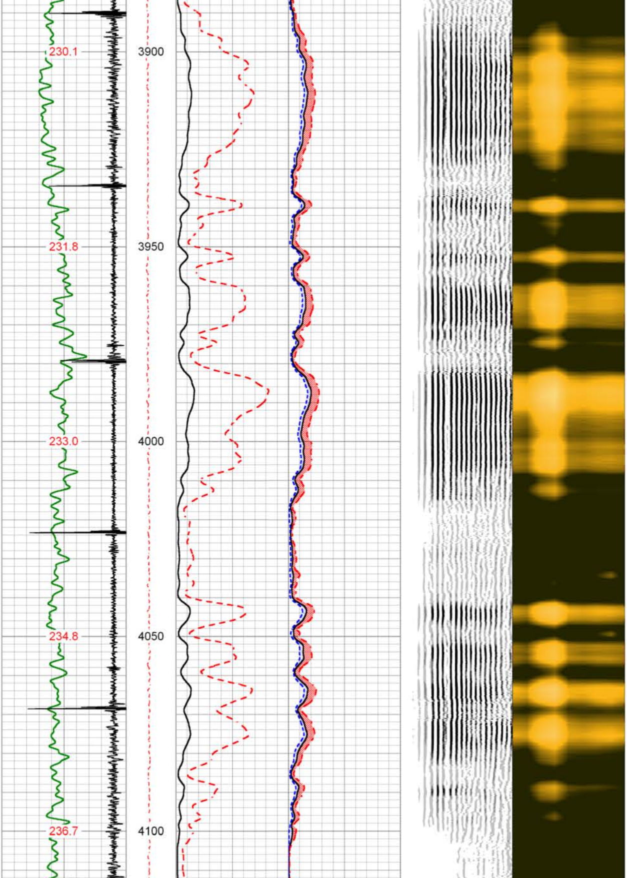
Database File	altamesa_fallon1-10_1107520032_20180305_gr-cbl\altamesa_fallon1-10_1107520032_201803
Dataset Pathname	run3.1/pass
Presentation Format	pinr_scbl
Dataset Creation	Wed Mar 07 10:05:23 2018
Charted by	Depth in Feet scaled 1:240

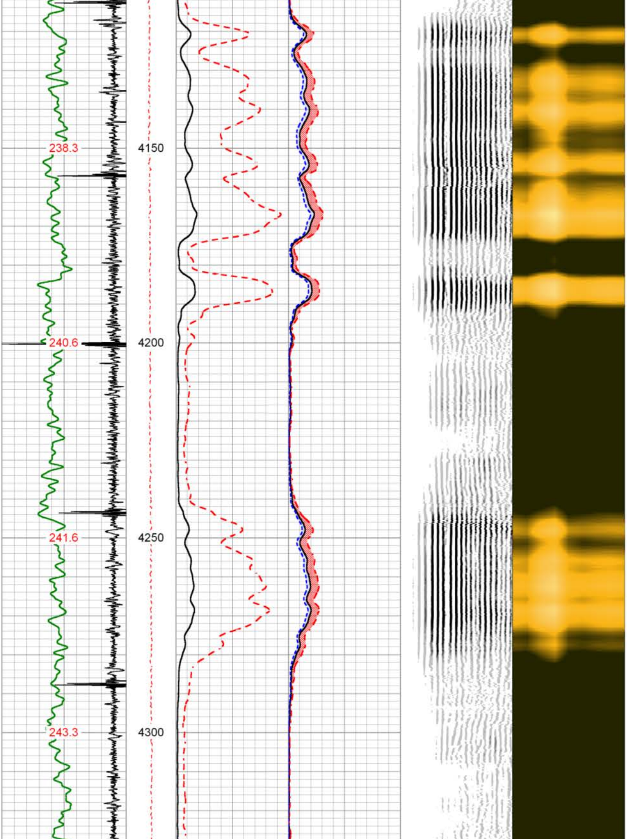
3' Travel Time 287 (usec) 187 Gamma Ray 0 (GAPI) 150 -9 CCL 1 TEMP (degF)	Line Tension 0 (l3000	3' Amplitude 0 (mV) 100 3' Amplified Amplitude X 5 0 (mV) 20	Sector Amplitude Average 0 150 Sector Amplitude Maximum 0 150 Sector Amplitude Minimum 0 150	200 VDL 1200	1 Sector Map 8 10 60

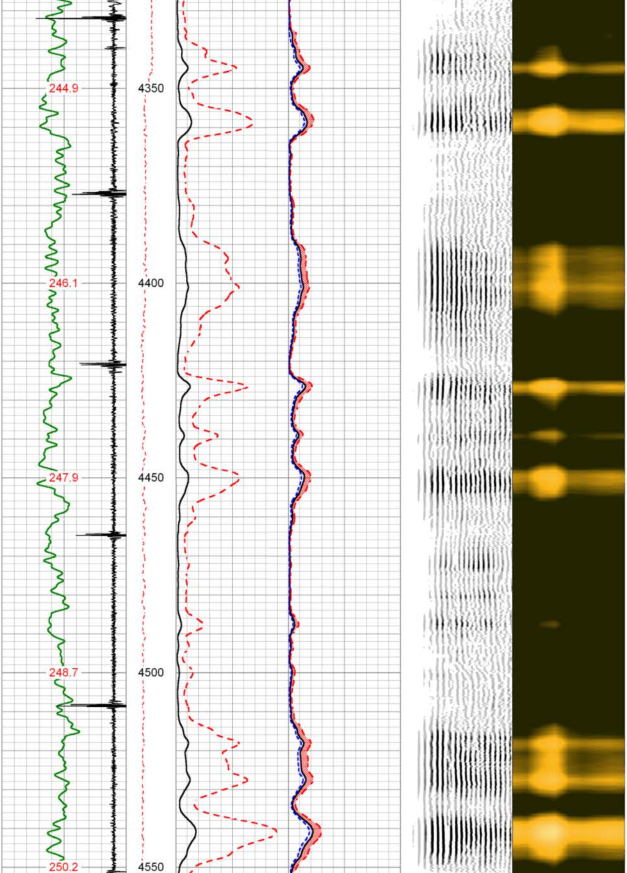


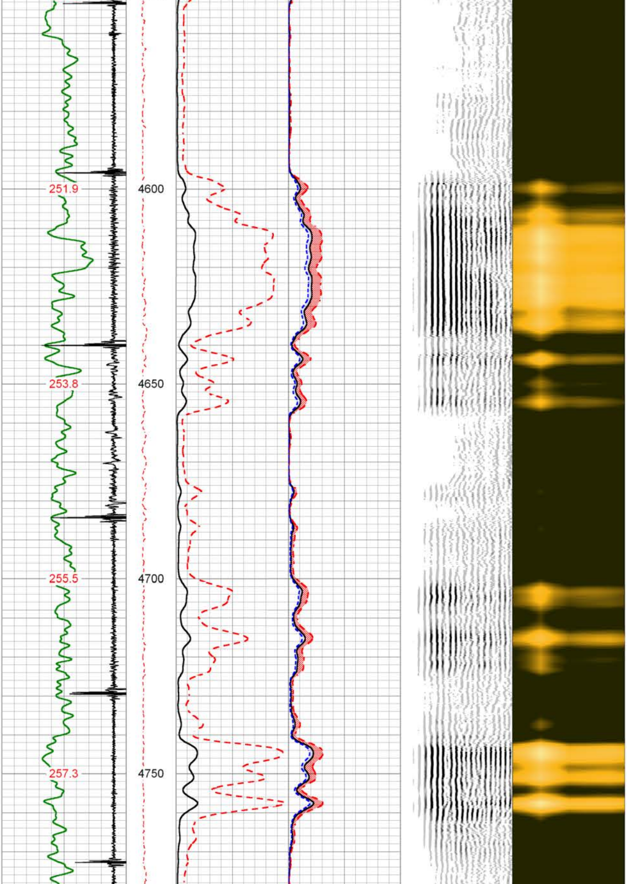


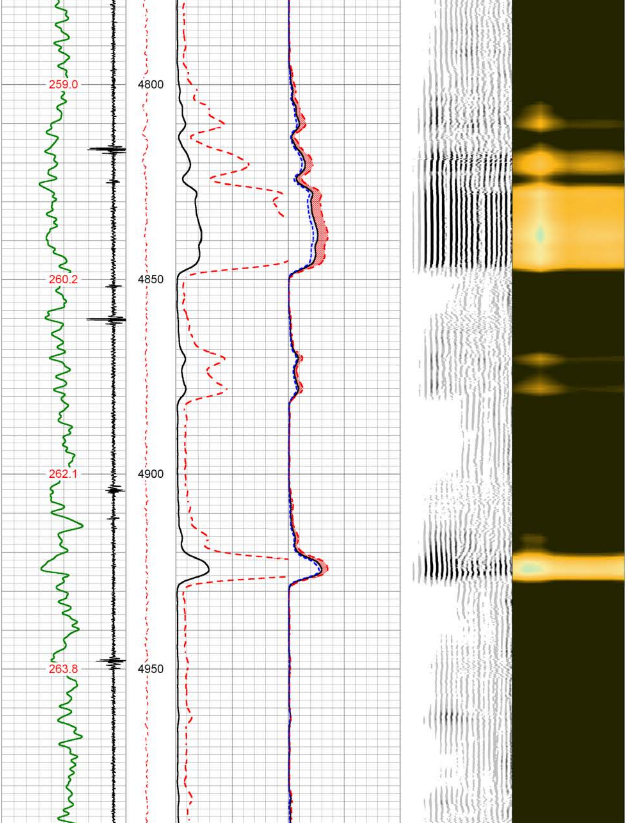


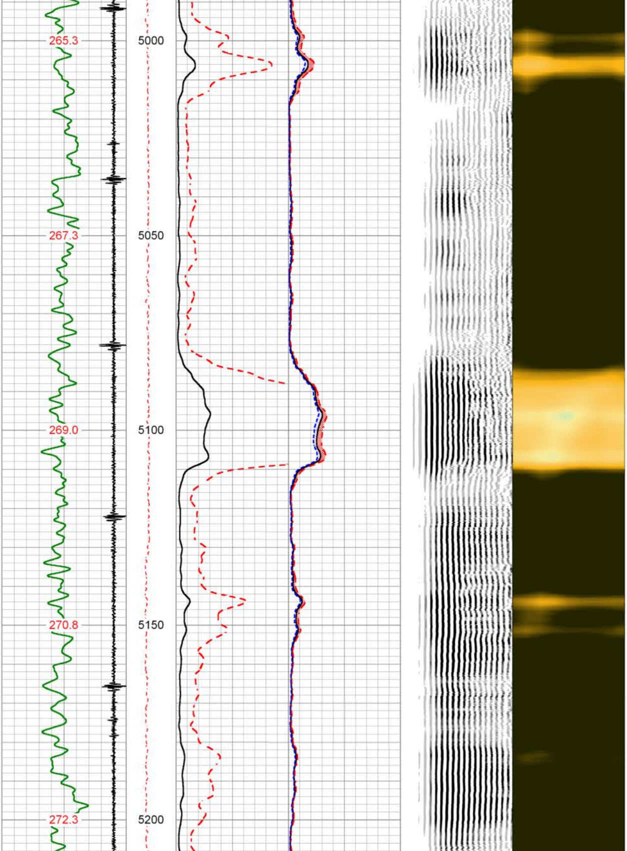


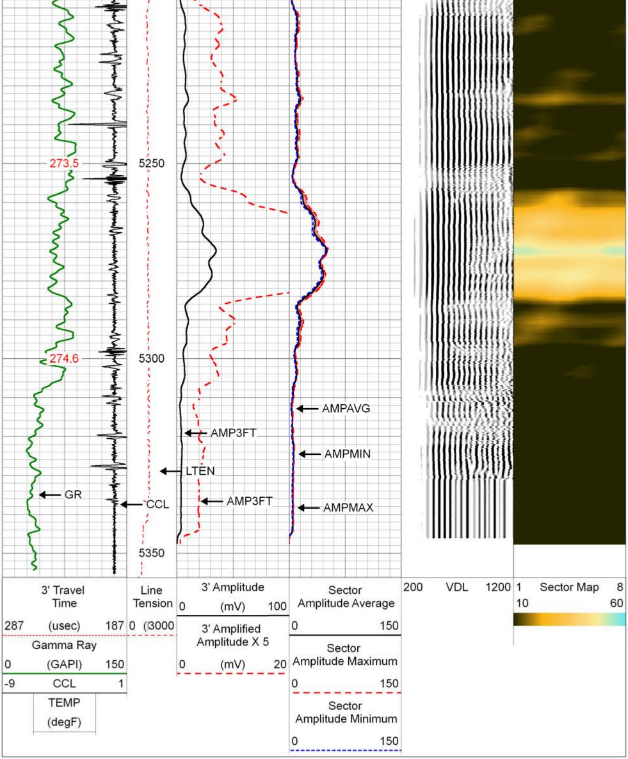












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REPEAT SECTION

0 PSI APPLIED AT SURFACE

Database File	altamesa_fallon1-10_1107520032_20180305_gr-cbl\altamesa_fallon1-10_1107520032_201803
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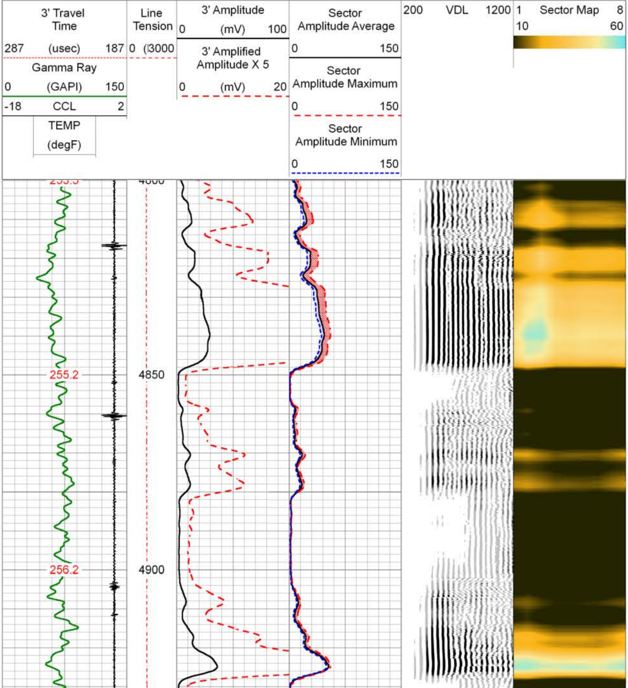
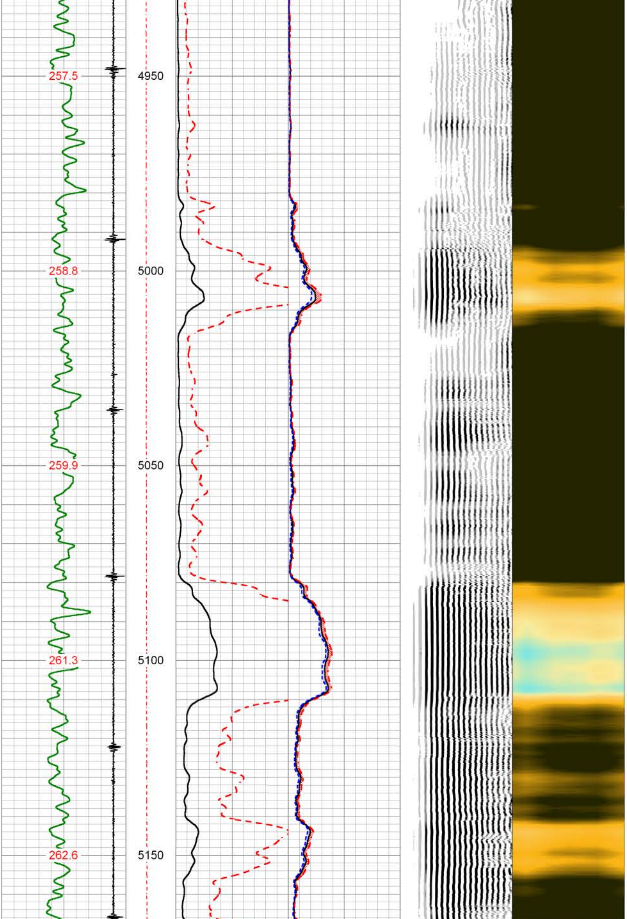
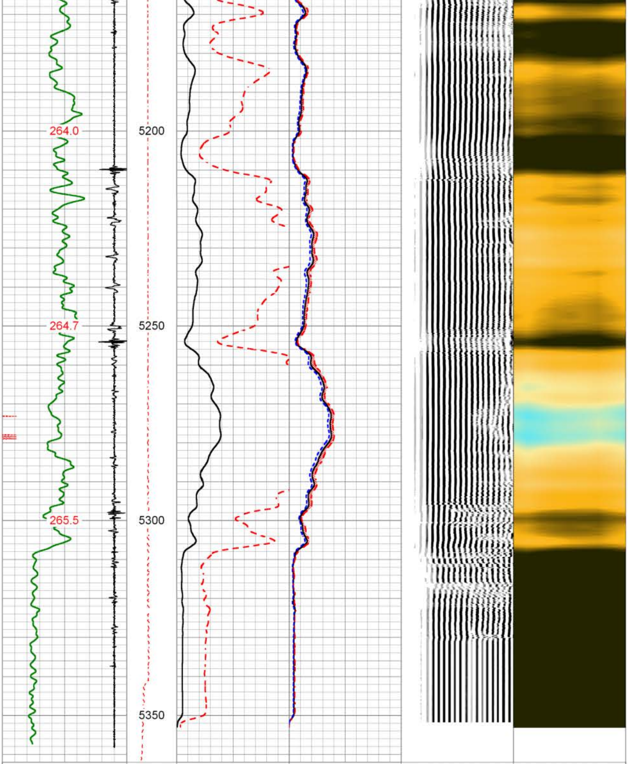
Presentation Format	pinr_scbl
Dataset Creation	Tue Mar 06 17:25:25 2018
Charted by	Depth in Feet scaled 1:240







3' Travel Time 287 (usec) 187	Line Tension 0 (l3000	3' Amplitude 0 (mV) 100	Sector Amplitude Average 0 150	200 VDL 1200	1 Sector Map 8 10 60
Gamma Ray 0 (GAPI) 150		3' Amplified Amplitude X 5 0 (mV) 20	Sector Amplitude Maximum 0 150		
CCL -18 2			Sector Amplitude Minimum 0 150		
TEMP (degF)					

Calibration Report

Database File c:\programdata\warrior\data\altamesa_fallon1-10_1107520032_20180305_gr-cbl\altamesa_fallon
Dataset Pathname run2/pass20
Dataset Creation Tue Mar 06 17:40:09 2018

Gamma Ray Calibration Report

Serial Number:	FW1211-83	
Tool Model:	275 Probe GR-CCL Corrosion	
Performed:	Mon Mar 05 13:20:23 2018	
Calibrator Value:	240.0	GAPI
Background Reading:	55.9	cps
Calibrator Reading:	439.8	cps
Sensitivity:	0.6251	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	FW1212-58	
Tool Model:	275 Probe w Temp New Mod	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	787.000	ft

Master Calibration, performed Tue Mar 06 17:03:22 2018:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.004	0.745	1.000	71.921	93.716	0.655
CAL	0.002	1.054				
5'	0.004	0.806	1.000	71.921	86.349	0.688
SUM						
S1	-0.000	0.742	0.000	100.000	134.693	0.036
S2	0.002	0.755	0.000	100.000	132.836	-0.292
S3	0.003	0.765	0.000	100.000	131.330	-0.434
S4	0.002	0.797	0.000	100.000	125.802	-0.229
S5	0.002	0.801	0.000	100.000	125.199	-0.272
S6	0.004	0.780	0.000	100.000	128.841	-0.469
S7	0.002	0.793	0.000	100.000	126.437	-0.247
S8	0.002	0.774	0.000	100.000	129.495	-0.285

Air Zero Calibration, performed Tue Mar 06 12:55:18 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:	FW1212-58
Tool Model:	275 Probe w Temp New Mod
Performed:	Fri Jan 19 14:37:46 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	FALLON 1-10
Field	WILDCAT
County	PAYETTE
State	IDAHO