Warrior Energy Services Corp.

SECTOR BOND
GAMMA RAY
CCL LOG

Company	ALTA MESA SERVICES
Well	M.L. INVESTMENTS 1-3
Field	WILDCAT
County	PAYETTE
State	IDAHO

Company ALTA MESA SERVICES

Well M.L. INVESTMENTS 1-3

Field WILDCAT

County PAYETTE State IDAHO

Location: API # : 1107520026

SHL 1625' FNL
3276' FEL

SEC 3 TWP 8N RGE 4W

Other Services
JBGR
PNN

Permanent Datum	G.L.	Elevation	2675'
Log Measured From	K.B. OF 13'		
Drilling Measured From	KB		

Elevation
K.B. 2687'
D.F. 2686'
G.L. 2675'

Date	20-JAN-2016		
Run Number	TWO		
Depth Driller	5585'		
Depth Logger	4682'		
Bottom Logged Interval	4682'		
Top Log Interval	SURFACE		
Open Hole Size	8.750"		
Type Fluid	WATER		
Density / Viscosity	NA		
Max. Recorded Temp.	158 F		
Estimated Cement Top	2550'		
Time Well Ready	10:00		
Time Logger on Bottom	11:00		
Equipment Number	4403		
Location	GREELEY, CO		
Recorded By	CHANCE THOMPSON		
Witnessed By	JEFF JANIK		

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	9 5/8"	40#	SURFACE	1084'
Prot. String				
Production String	7"	28#	SURFACE	4682'
Liner				

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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.

Comments

LOG CORRELATE TO
WEATHERFORD COMPACT TRIPLE COMBO
DATED 13-DEC-2015

WESC Warrior Energy Services Corp.

MAIN PASS

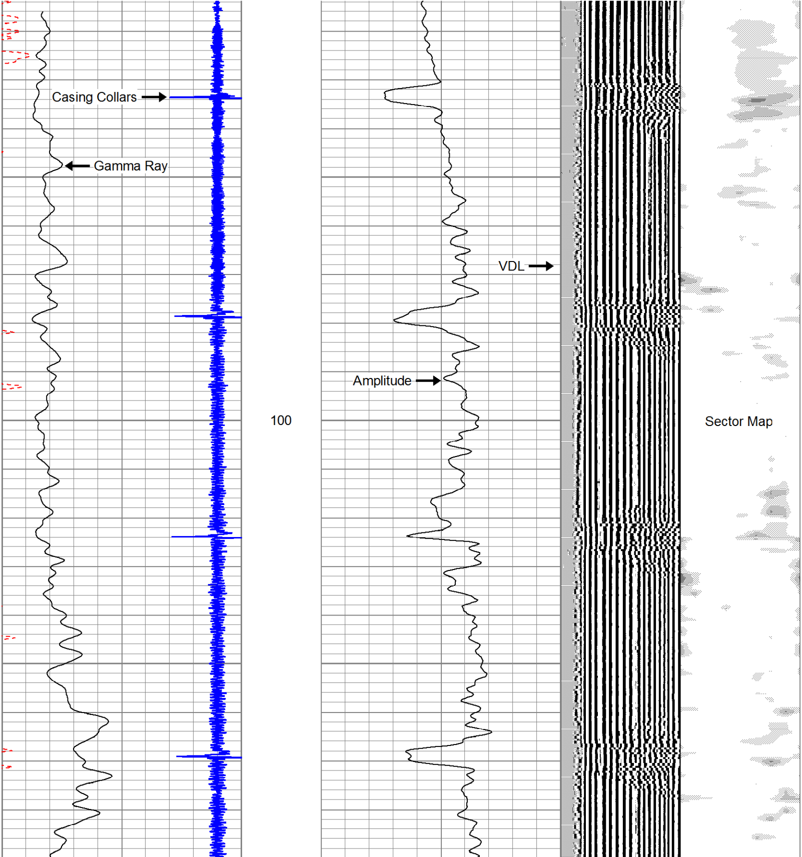
Database File:	mli 1-3.db
Dataset Pathname:	pass13
Presentation Format:	_scblt
Dataset Creation:	Wed Jan 20 10:55:49 2016 by Log SCH 120126
Charted by:	Depth in Feet scaled 1:240

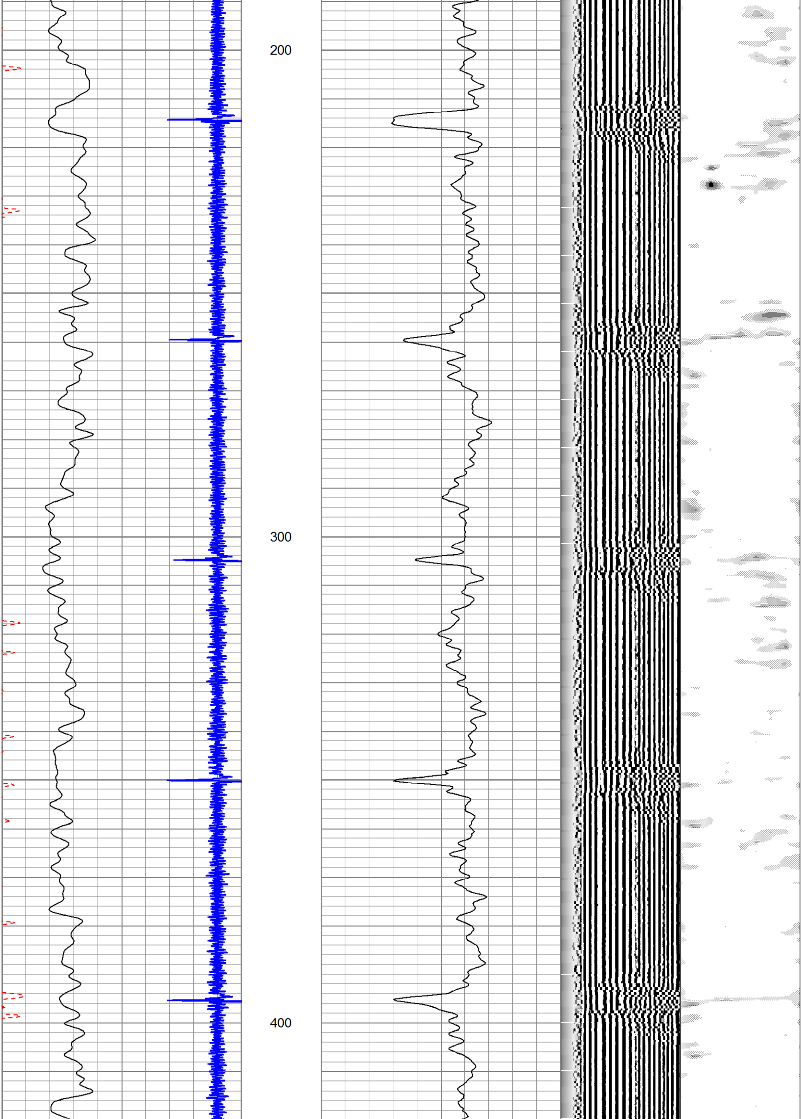
260 Travel Time (usec) 160
9 Casing Collars -1
0 Gamma Ray (GAPI) 150

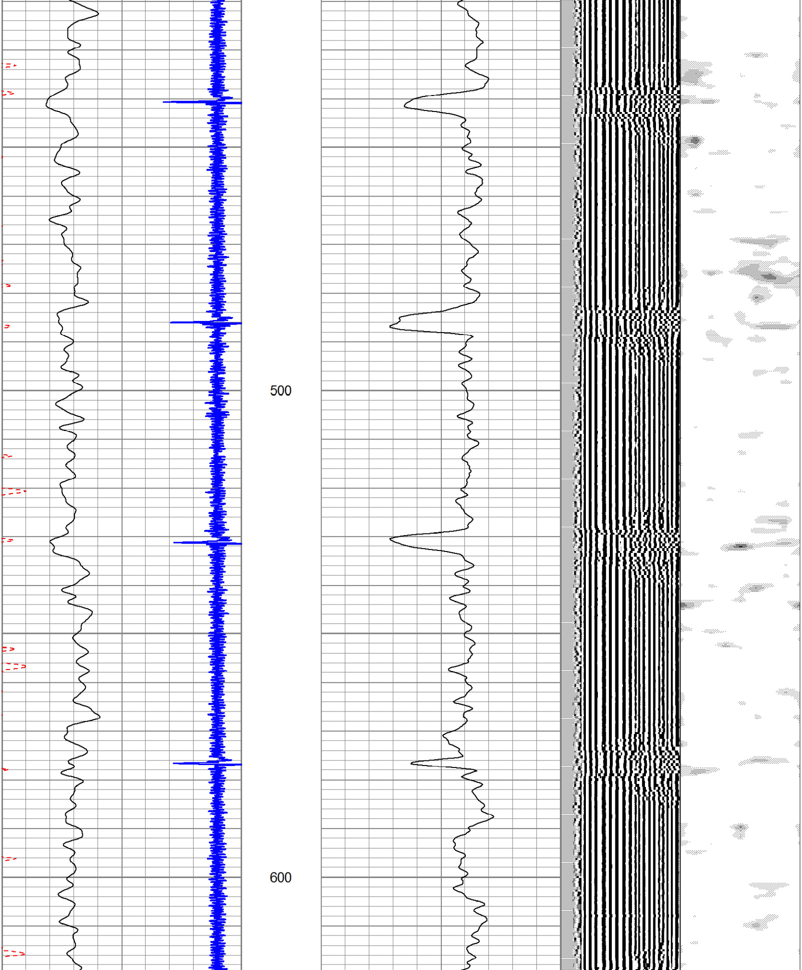
0 Amplitude (mV) 100
0 Amplitude X 5 (mV) 20

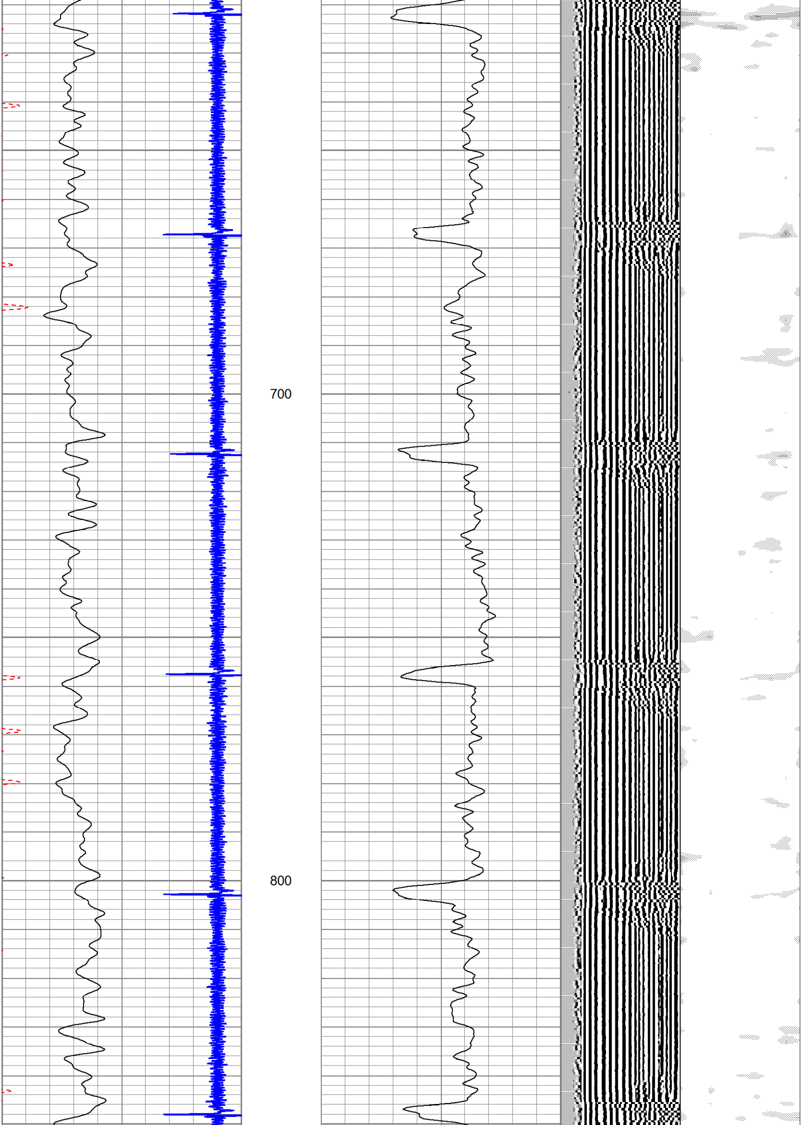
200 VDL 1200

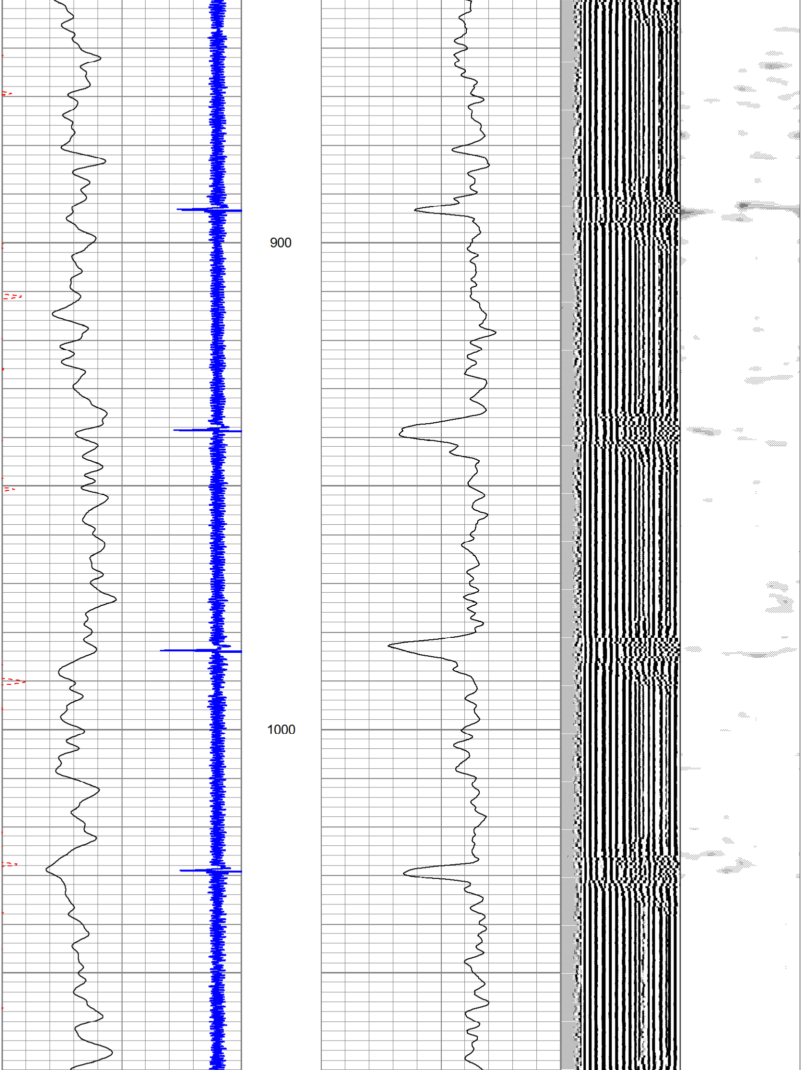
1 Sector Map 8

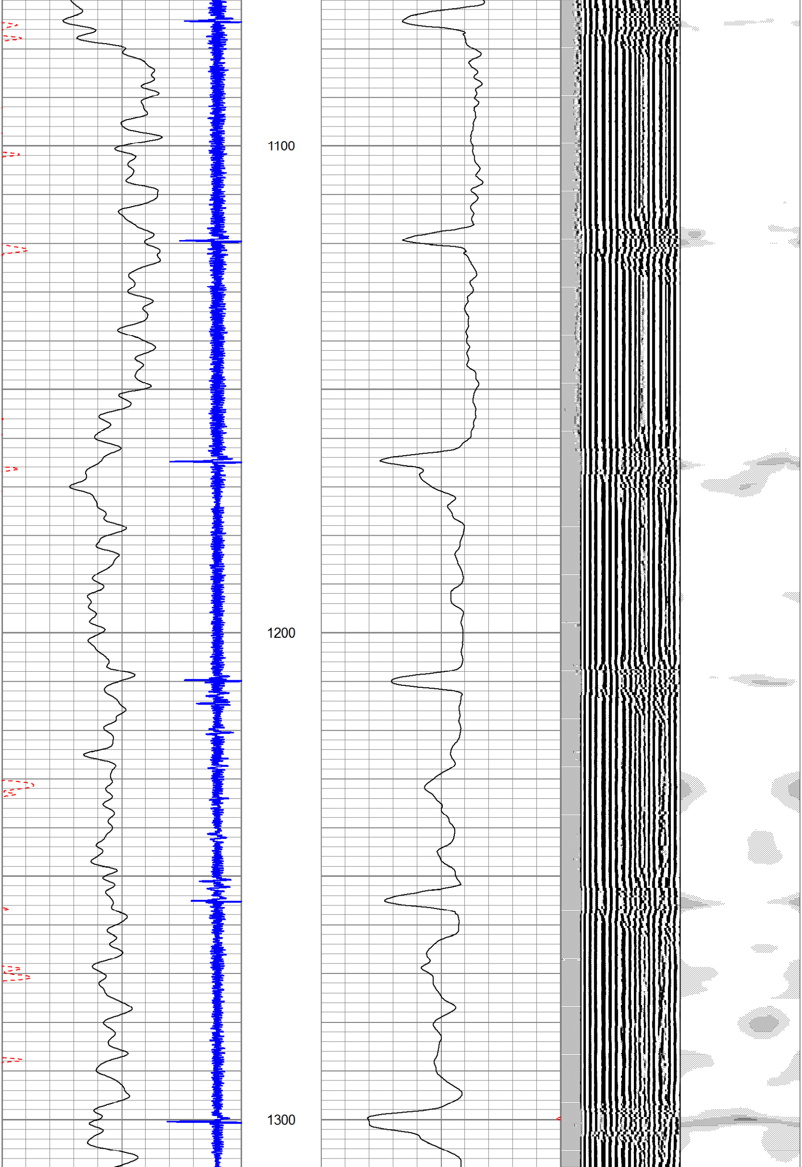


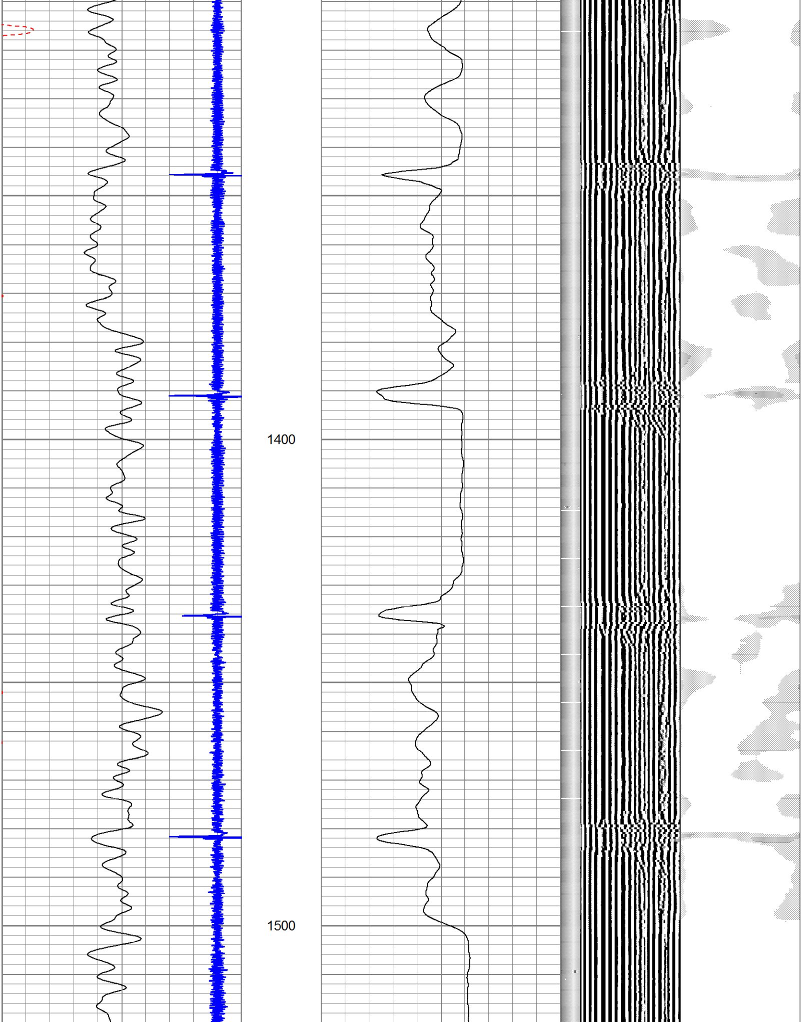


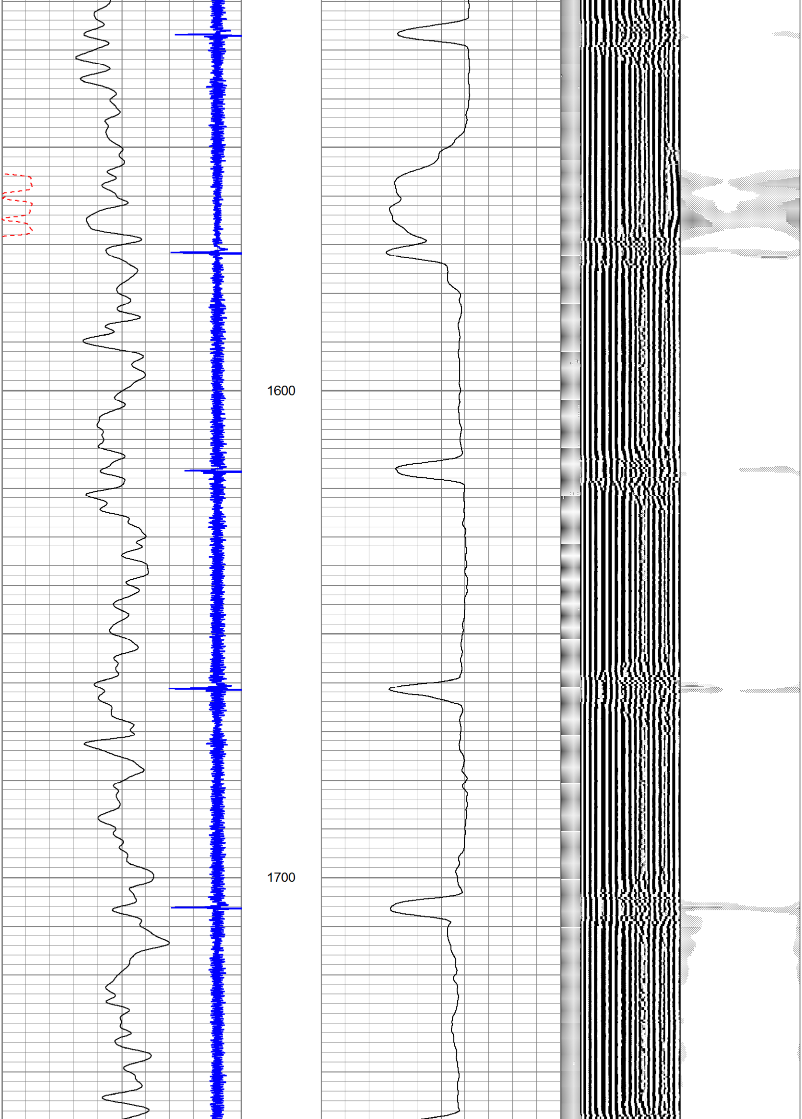


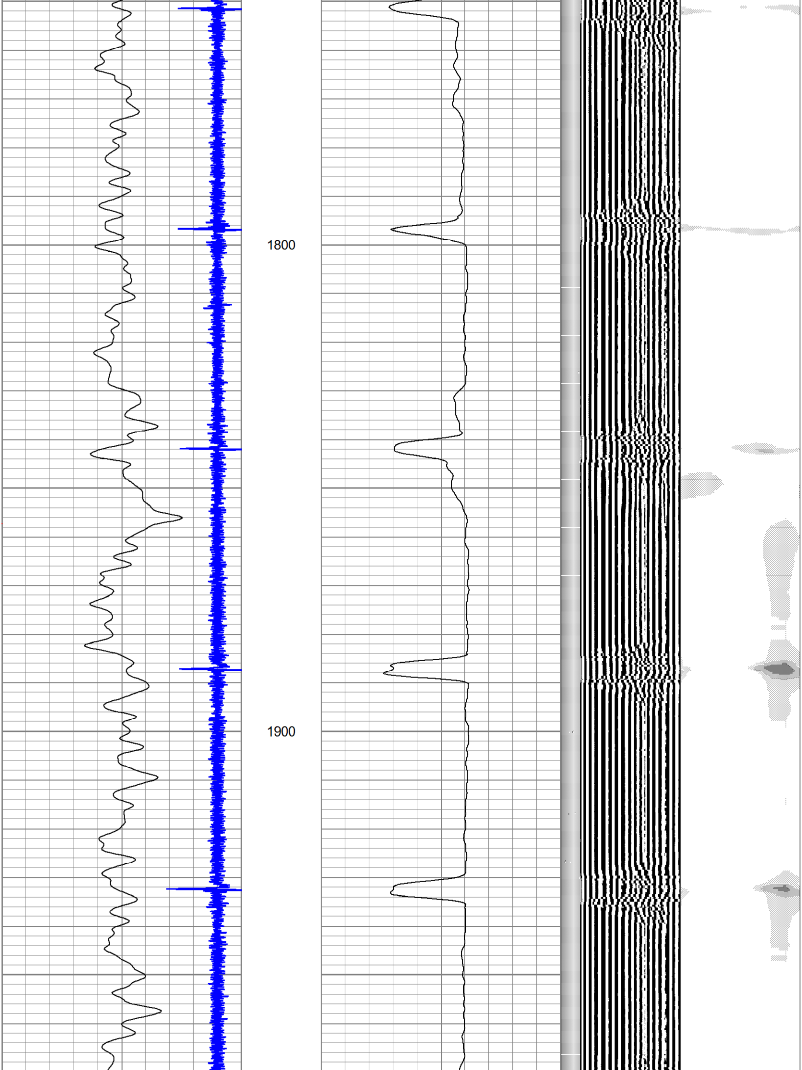


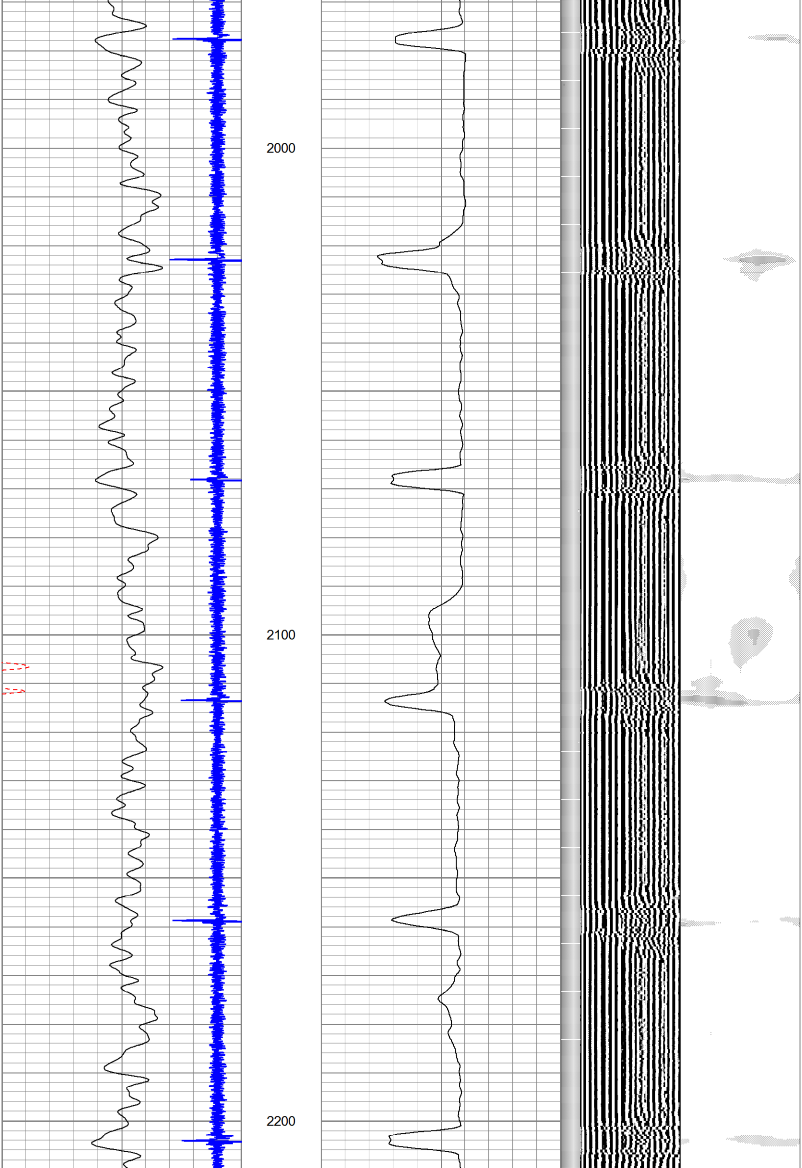


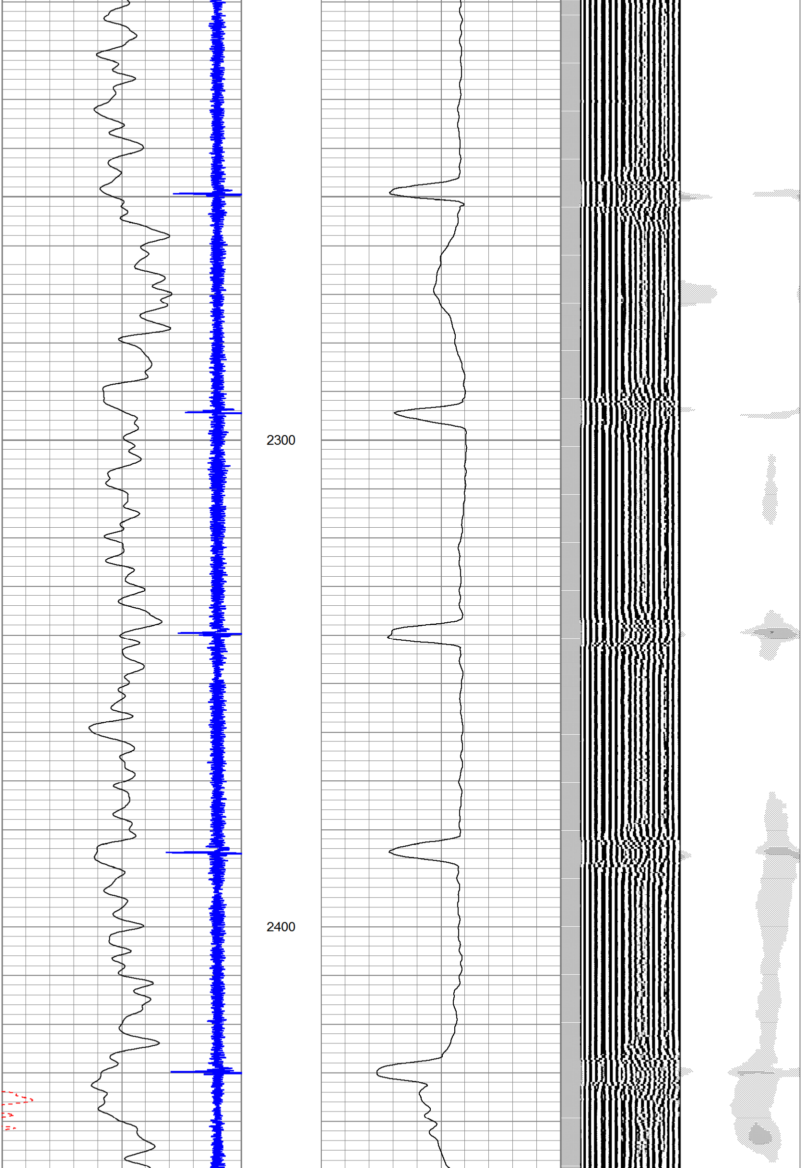


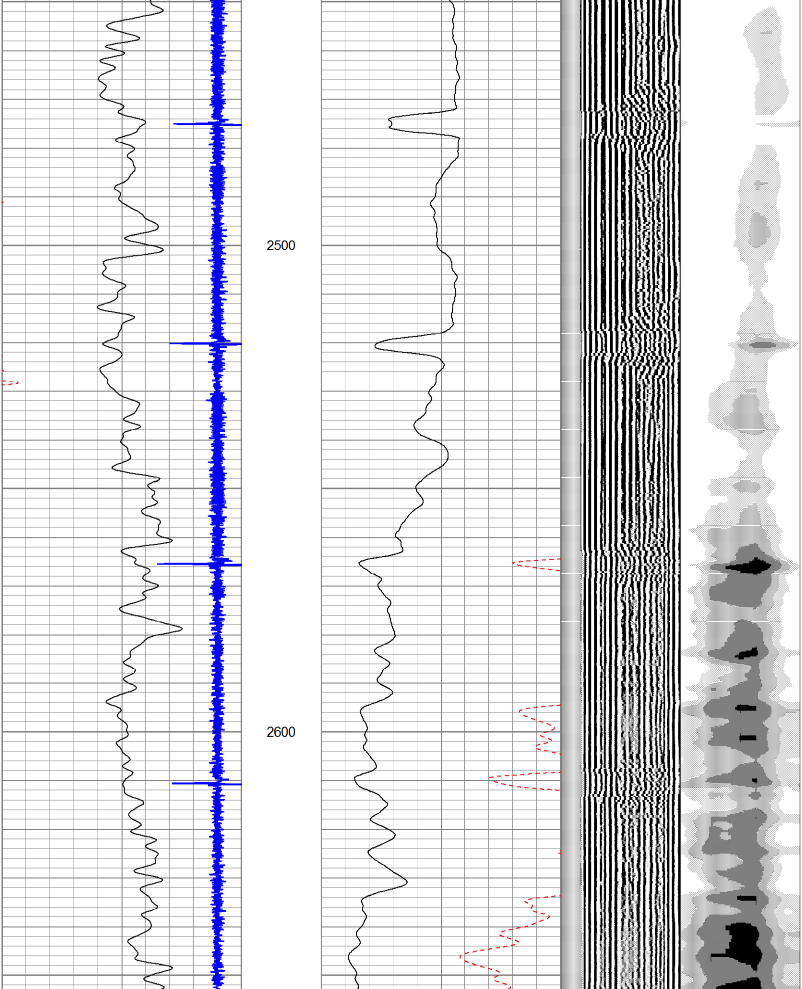


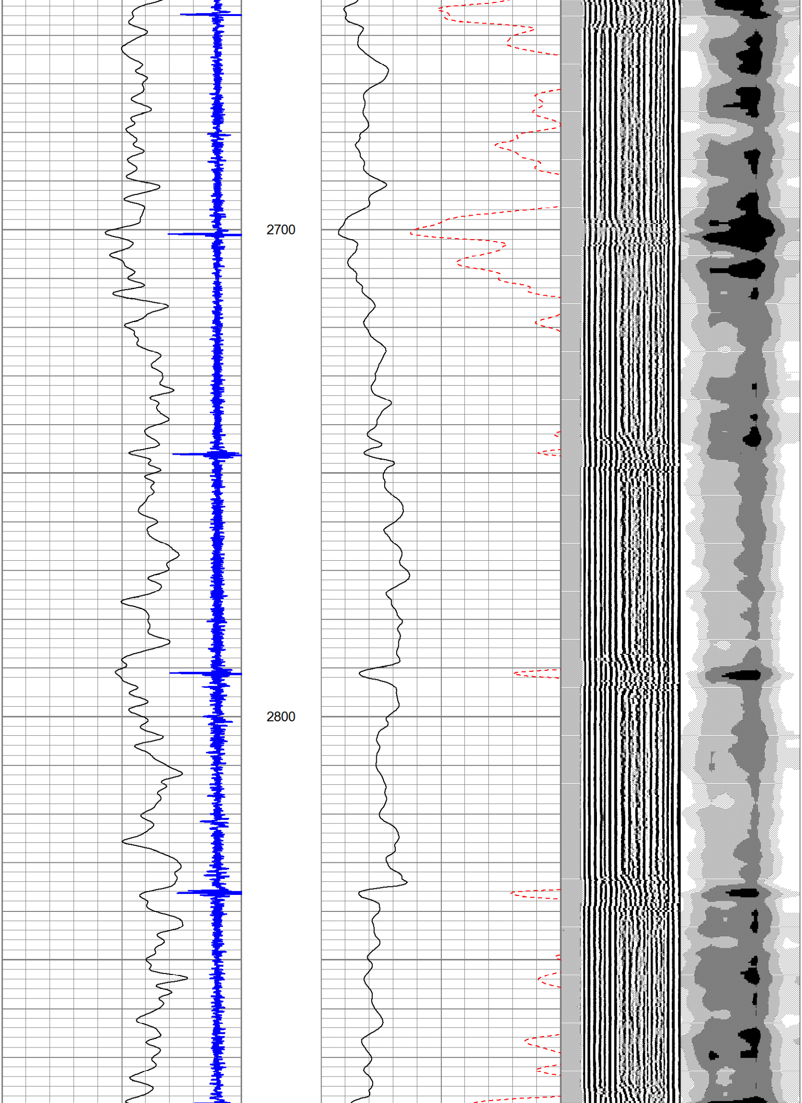


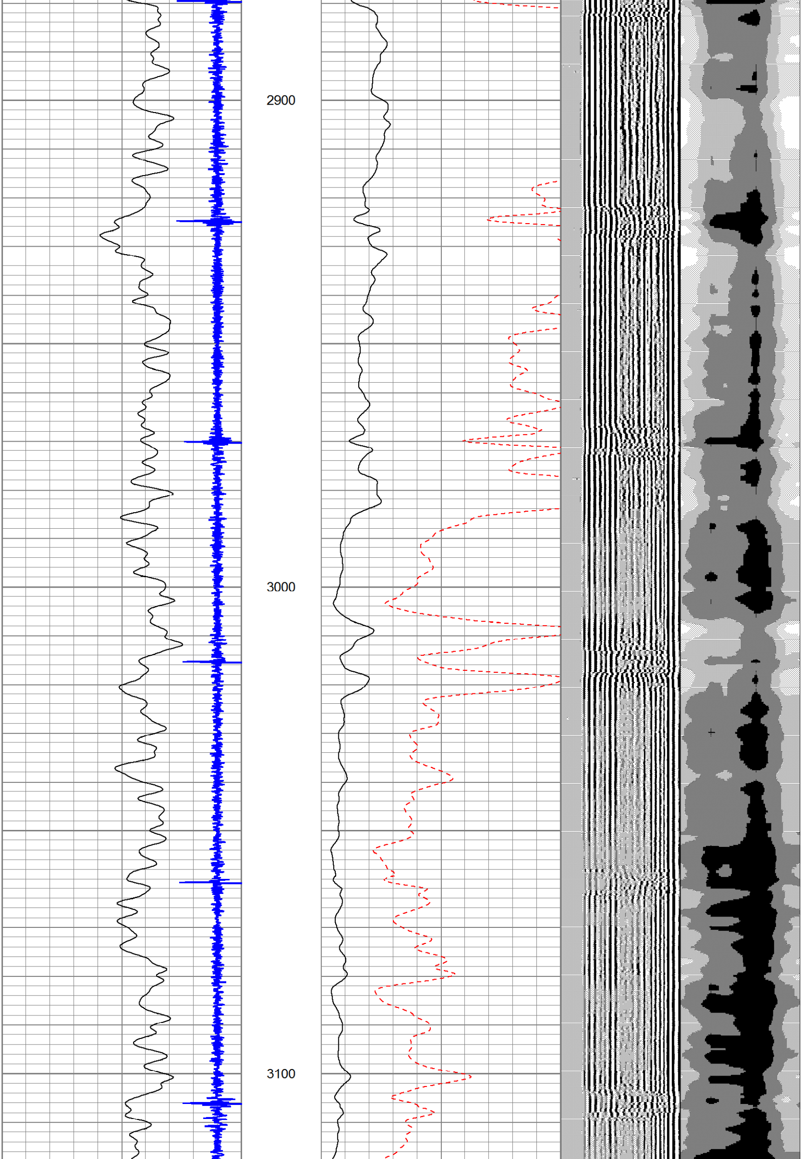


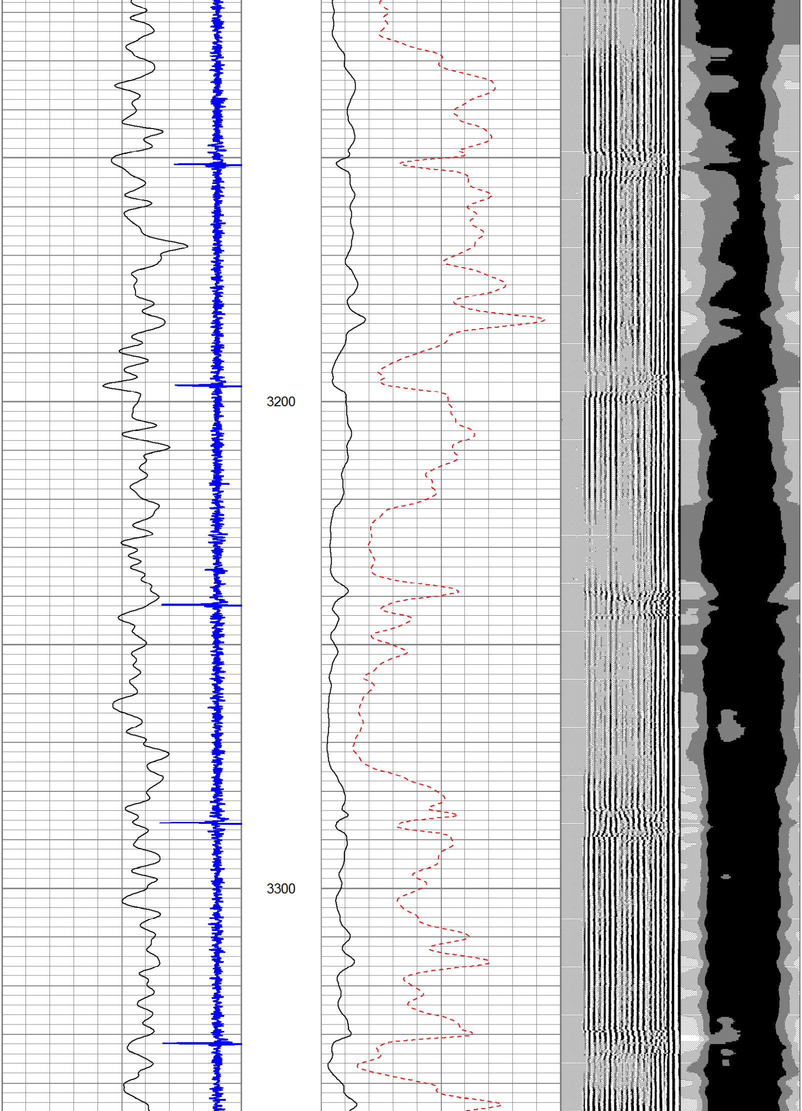


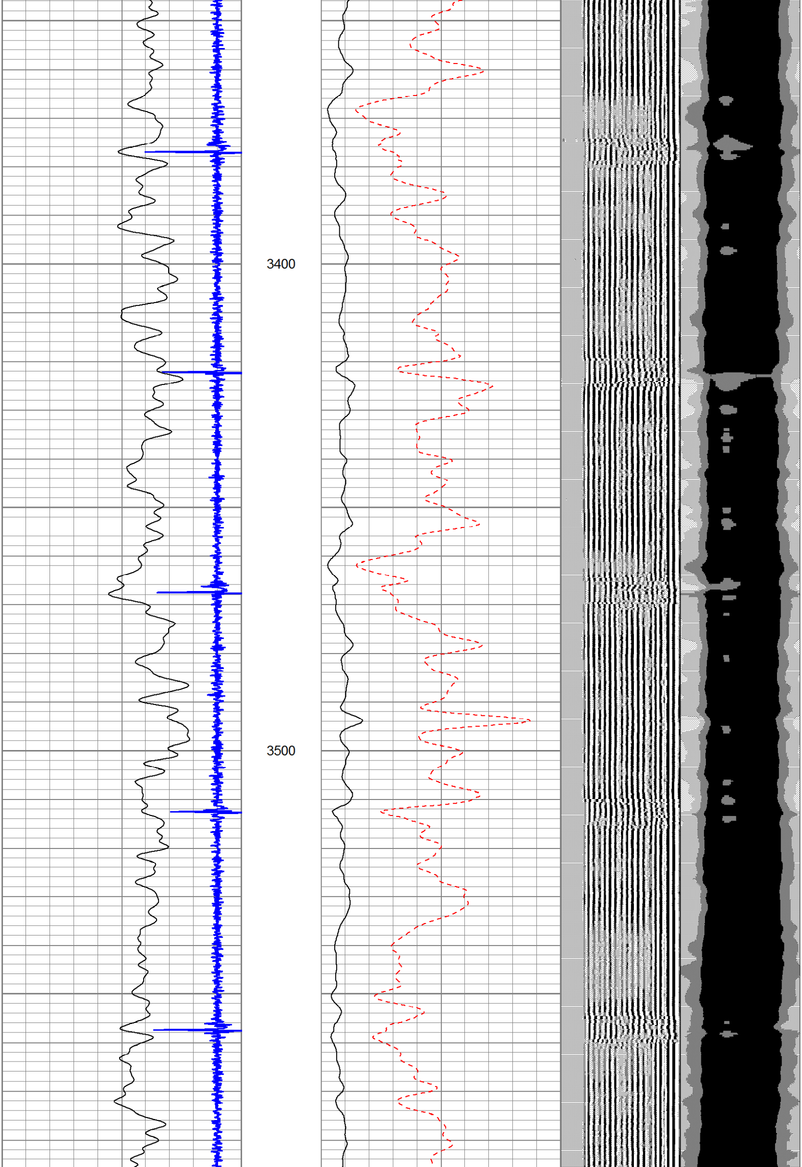


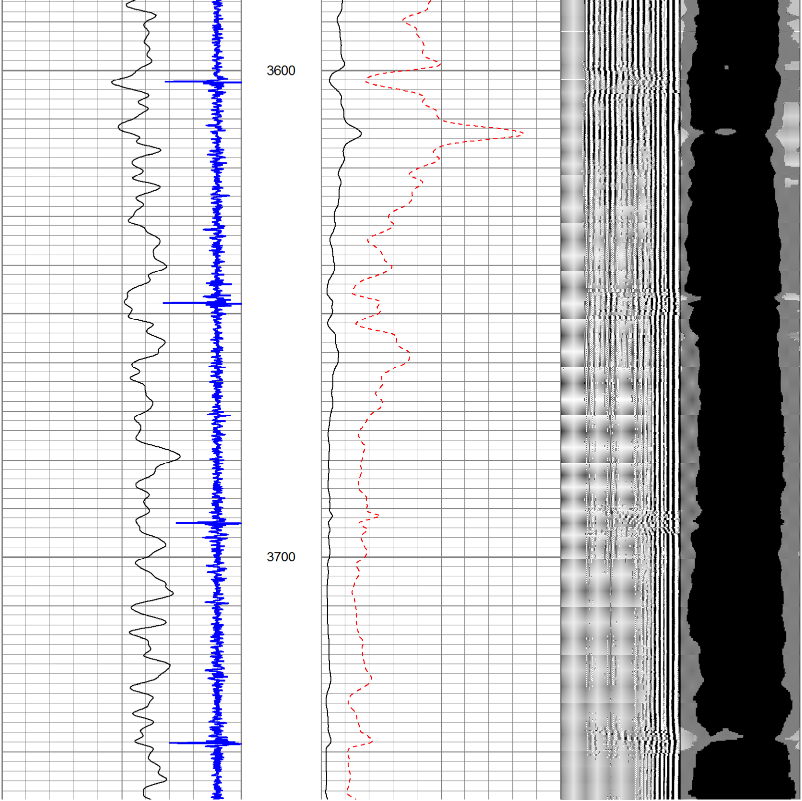


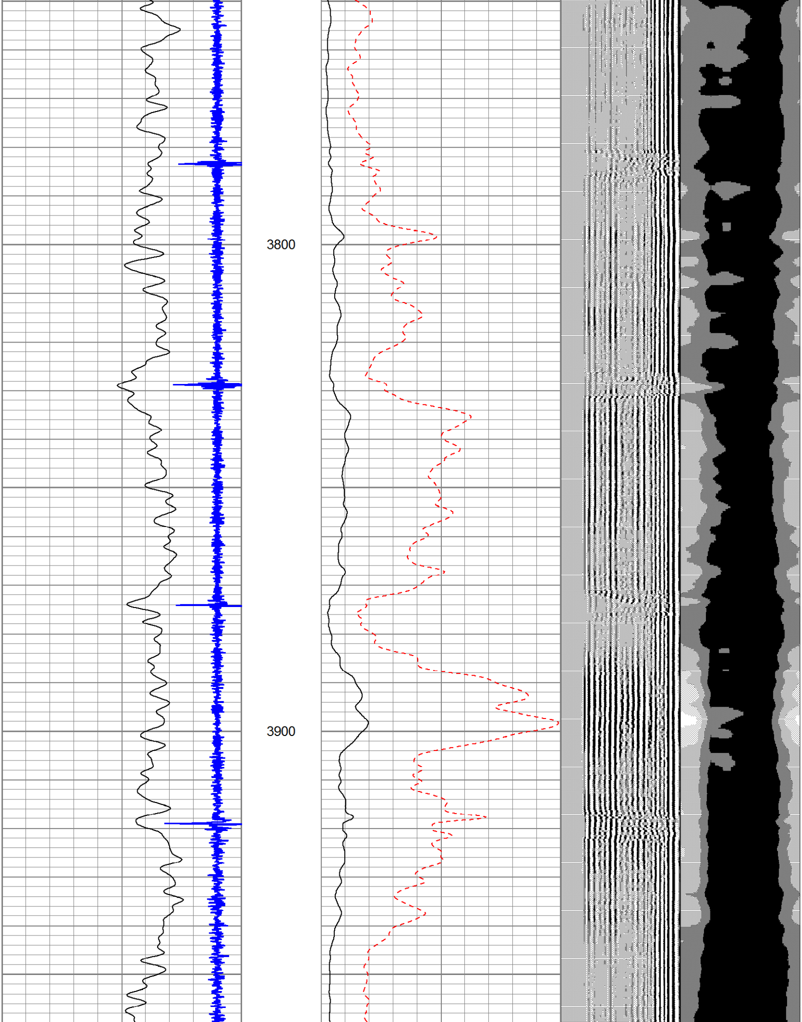


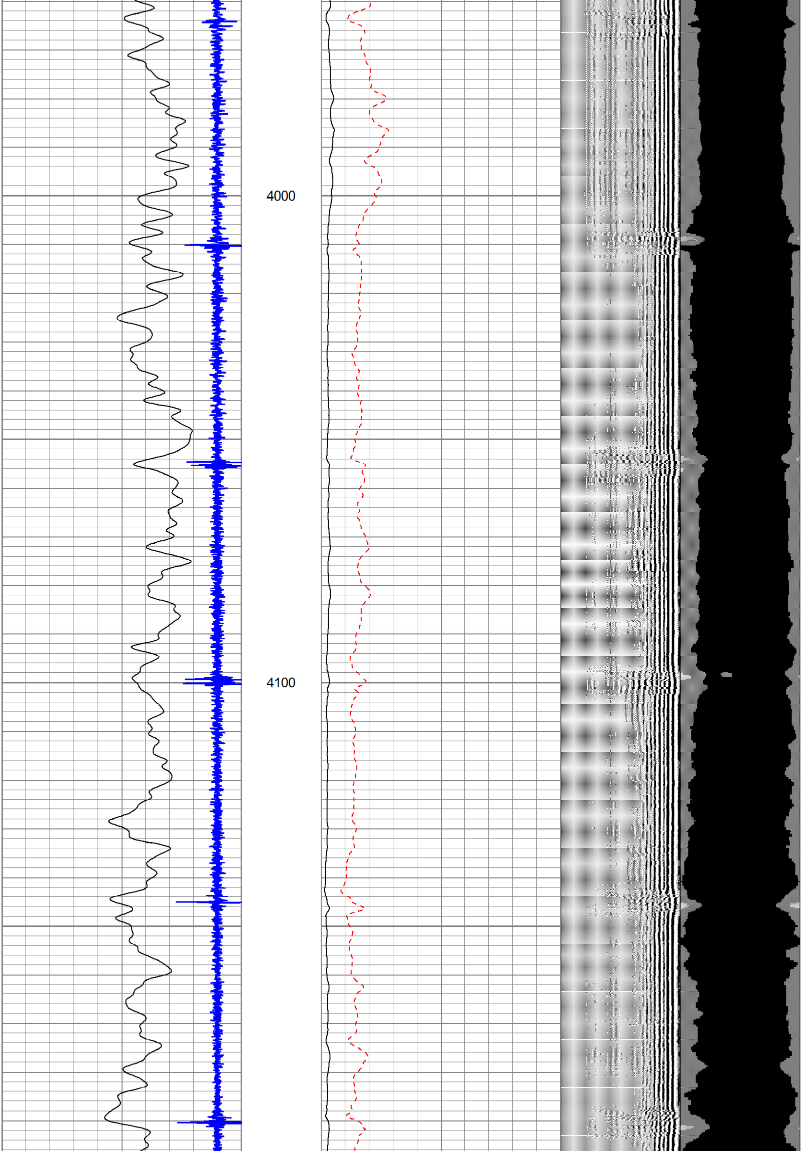


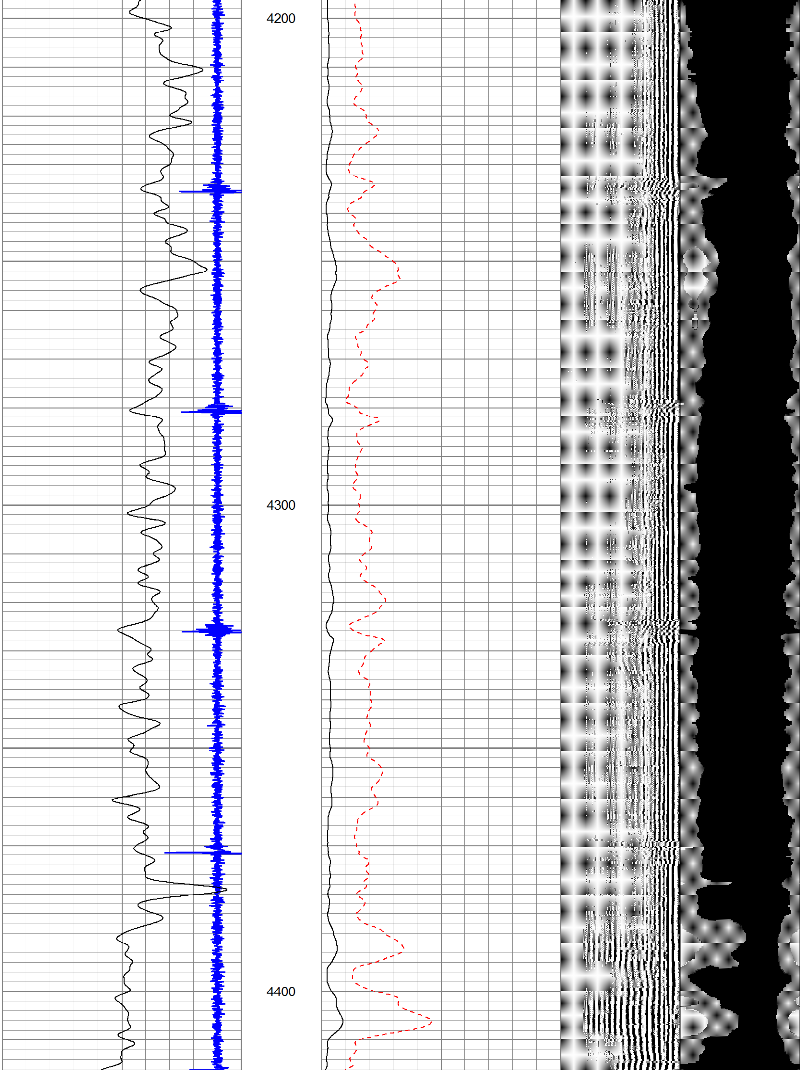


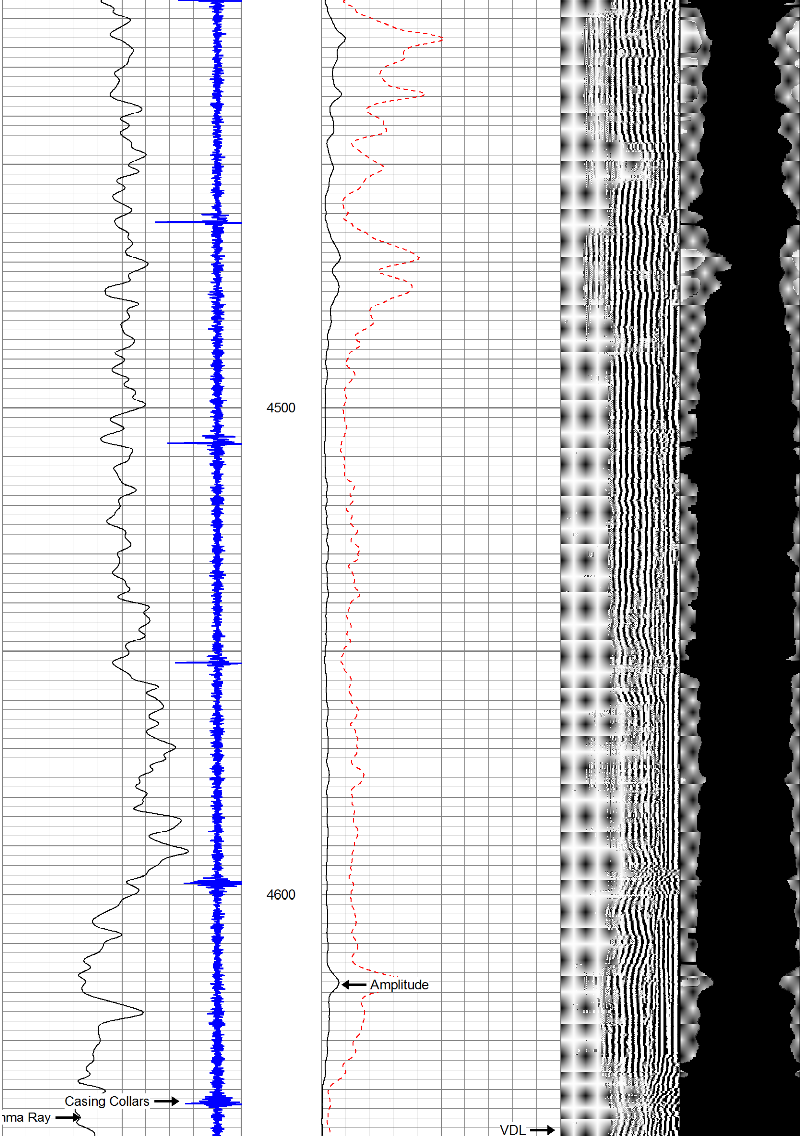


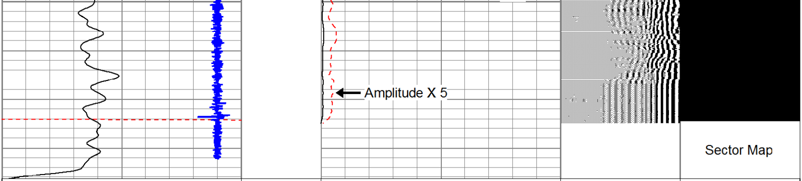












260 Travel Time (usec) 160	0 Amplitude (mV) 100	200 VDL 1200	1 Sector Map 8
9 Casing Collars -1	0 Amplitude X 5 (mV) 20		
0 Gamma Ray (GAPI) 150			

Warrior Energy
Services Corp.

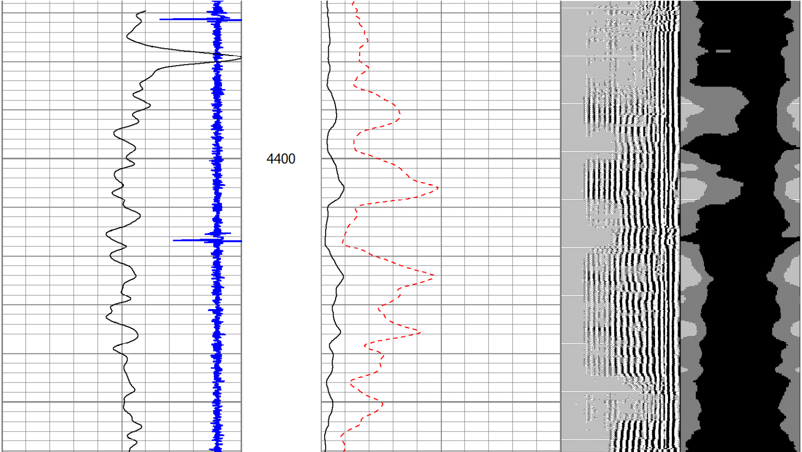
MAIN PASS

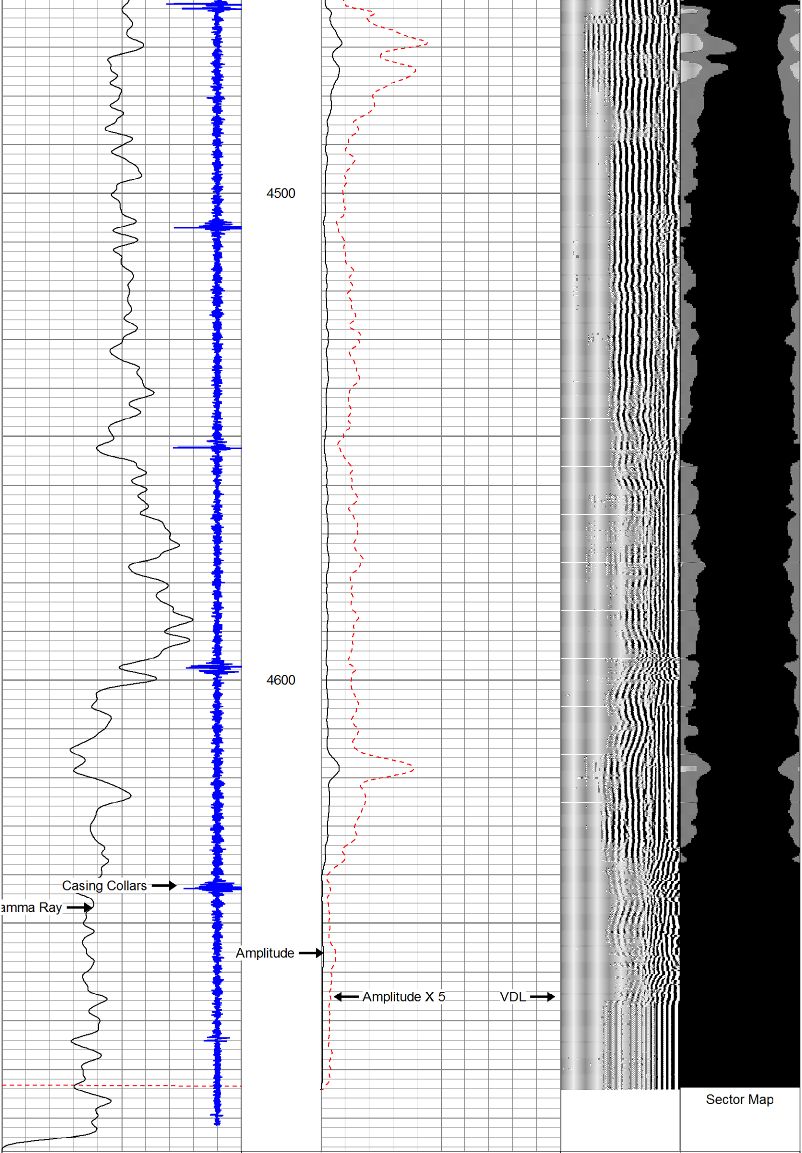
Warrior Energy
Services Corp.

REPEAT PASS

Database File:	mli 1-3.db
Dataset Pathname:	pass12
Presentation Format:	_scblt
Dataset Creation:	Wed Jan 20 10:42:04 2016 by Log SCH 120126
Charted by:	Depth in Feet scaled 1:240

260 Travel Time (usec) 160	0 Amplitude (mV) 100	200 VDL 1200	1 Sector Map 8
9 Casing Collars -1	0 Amplitude X 5 (mV) 20		
0 Gamma Ray (GAPI) 150			





260	Travel Time (usec)	160
9	Casing Collars	-1
0	Gamma Ray (GAPI)	150

0	Amplitude (mV)	100
0	Amplitude X 5 (mV)	20

200	VDL	1200

1	Sector Map	8

Warrior Energy
Services Corp.

REPEAT PASS

Calibration Report

Database File: mli 1-3.db
Dataset Pathname: pass13
Dataset Creation: Wed Jan 20 10:55:49 2016 by Log SCH 120126

Gamma Ray Calibration Report

Serial Number: 27GRL20-XXXX
Tool Model: 27GRL20
Performed: Wed Jul 08 08:47:23 2015

Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.8000	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: 27SBT20-0250
Tool Model: 27SBT20

Calibration Casing Diameter:	7.000	in
Calibration Depth:	833.517	ft

Master Calibration, performed Wed Jan 20 10:22:12 2016:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.002	1.812	0.100	62.165	34.208	0.166
CAL	-0.001	1.003				
5'	-0.002	2.363	0.100	62.165	26.250	0.141
SUM						
S1	-0.002	0.371	0.000	100.000	268.203	0.419
S2	-0.002	0.399	0.000	100.000	249.111	0.480
S3	-0.002	0.273	0.000	100.000	364.445	0.569
S4	-0.002	0.287	0.000	100.000	346.312	0.566
S5	-0.002	0.427	0.000	100.000	233.145	0.379
S6	-0.002	0.604	0.000	100.000	164.998	0.282
S7	-0.002	0.716	0.000	100.000	139.237	0.255
S8	-0.002	0.597	0.000	100.000	167.071	0.261

Internal Reference Calibration, performed Wed Dec 31 17:00:00 1969:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.001	1.003	1.000	0.000

Air Zero Calibration, performed Wed Jul 08 08:45:33 2015:

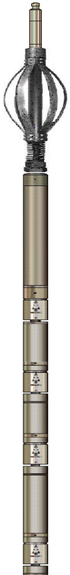
	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.000	0.000	0.000
5'	0.000	0.000	0.000
SUM			
S1	0.000	0.000	0.000
S2	0.000	0.000	0.000
S3	0.000	0.000	0.000
S4	0.000	0.000	0.000
S5	0.000	0.000	0.000
S6	0.000	0.000	0.000
S7	0.000	0.000	0.000
S8	0.000	0.000	0.000

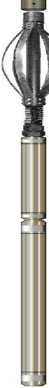
Temperature Calibration Report

Serial Number: 27SBT20-0250
Tool Model: 27SBT20
Performed: Sun Jun 13 13:33:21 1993

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

Gain: 1.00
Offset: 0.00
Delta Spacing 1

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			1_4	1.00	1.36	5.00
			2.75varable 2.75" varable length	2.75	2.75	25.00
TEMP	14.75					
WVFS1	13.33					
WVFS2	13.33		275CTEKSECWTWSLCANS-27SBT20 2-3/4" Sector Bond Tool with Temp/ Sliding Cans 400'deg	(279.1320	022.75	102.00
WVFS3	13.33					
WVFS4	13.33					
WVFS5	13.33					
WVFS6	13.33					
WVFS7	13.33					
WVFS8	13.33					
WVF3FT	12.58					
WVFCAL	12.58					
WVFSYNC	12.58					
WVF5FT	11.58					

WVFTEMP	8.25		2.75varable 2.75" varable length	2.75	2.75	25.00
CCL	4.35		CCL-27CCL40 (27CCL40-XXXX) 2-3/4" Tek-Co Rare Earth CCL	1.83	2.75	15.00
GR	1.08		GR-27GRL20 (27GRL20-XXXX) 2-3/4" Gamma Ray	3.67	2.75	30.00

Dataset:	mli 1-3.db: field/well/run1/pass13
Total Length:	21.13 ft
Total Weight:	202.00 lb
O.D.	2.75 in

WESC

Warrior Energy
Services Corp.

Company	ALTA MESA SERVICES
Well	M.L. INVESTMENTS 1-3
Field	WILDCAT
County	PAYETTE
State	IDAHO