PIONEER

Pioneer Energy Services

CEMENT BOND LOG WITH CCL/VDL/GR

Company	AUGUSTUS ENERGY RESOURCES, LLC
Well	HAGEMANN 31-19 1S44W
Field	VERNON
County	YUMA
State	COLORADO

Company AUGUSTUS ENERGY RESOURCES, LLC

Well HAGEMANN 31-19 1S44W

Field VERNON

County YUMA State COLORADO

Location: API # : 0512512094

303' FSL & 2229' FEL
NWNE

SEC 19 TWP 1S RGE 44W

Other Services

Permanent Datum Elevation 3947'

Log Measured From

Drilling Measured From

Elevation

K.B. 3953'
D.F. 3952'
G.L. 3947'

Date	14 AUGUST 2014		
Run Number	1		
Depth Driller	2508'		
Depth Logger	2430'		
Bottom Logged Interval	2430'		
Top Log Interval	SURFACE		
Open Hole Size	6.25"		
Type Fluid	WATER		
Density / Viscosity	NA		
Max. Recorded Temp.	NA		
Estimated Cement Top	SEE LOG		
Time Well Ready	12:00		
Time Logger on Bottom	12:30		
Equipment Number	96		
Location	FT. MORGAN		
Recorded By	TIM REESE		
Witnessed By	GREG J.		

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String				
Prot. String				
Production String				
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

Calibration Report

Database File:	hagemann 31-19 1s44w.db
Dataset Pathname:	pass1
Dataset Creation:	Thu Aug 14 12:32:17 2014 by Log SCH 120430

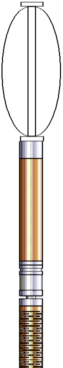
Gamma Ray Calibration Report

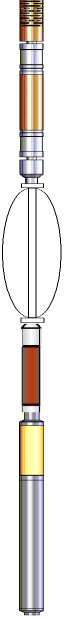
Serial Number:	51013	
Tool Model:	probe 2.75	
Performed:	Thu Feb 23 11:03:07 2012	
Calibrator Value:	1400.0	GAPI
Background Reading:	26.8	cps
Calibrator Reading:	1120.0	cps
Sensitivity:	0.9000	GAPI/cps

Cement Bond Log Calibration Report

Serial Number:	050215	
Tool Model:	Probe	
Performed:	Thu Aug 14 12:20:50 2014	
Depth:	33.7333	ft
Casing Diameter:	4.5	in

	3' Spacing	5' Spacing	
Signal Zero:	1	0	mV
Calibrated Amplitude:	81.1961	81.1961	mV
Reading at Signal Zero:	0.0155273	0.0152832	V
Reading in Free Pipe:	1.75222	1.29924	V
Gain:	41	63.2388	
Offset:	0.282988	-0.966492	

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			SDSCENT Centralizer for testing	3.00	3.25	20.00
WVF3	13.50		CBL-Probe (050215) Probe 2.75" Dual Receiver Bond	8.75	2.75	60.00



WVF5	12.50				
		SDSCENT Centralizer for testing	3.00	3.25	20.00
CCL	5.23	CCL-titan01 (01t)	1.92	2.75	
		GR-probe 2.75 (51013) PROBE_GCT	4.33	2.75	100.00
GR	1.13				

Dataset:	hagemann 31-19 1s44w.db: field/well/run1/pass2
Total Length:	21.00 ft
Total Weight:	200.00 lb
O.D.	3.25 in

Database File:	hagemann 31-19 1s44w.db
Dataset Pathname:	pass2
Presentation Format:	cbl_dr
Dataset Creation:	Thu Aug 14 12:41:59 2014 by Log SCH 120430
Charted by:	Depth in Feet scaled 1:240

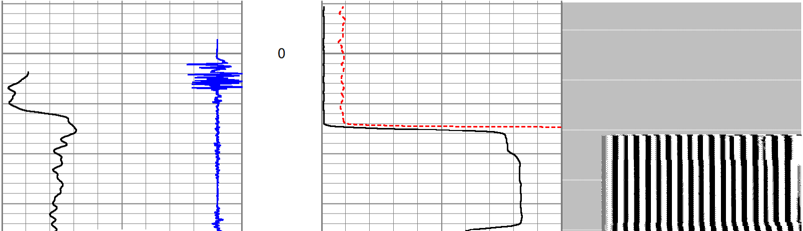
9 Collar Locator -1

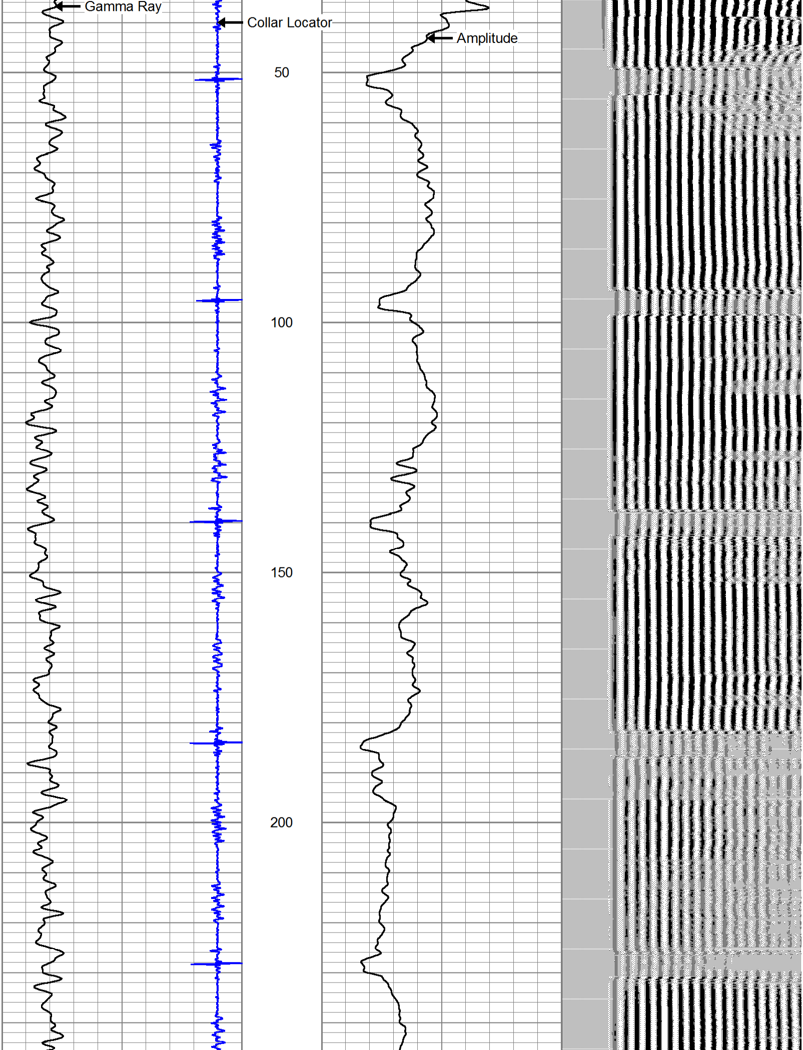
0 Gamma Ray (GAPI) 300

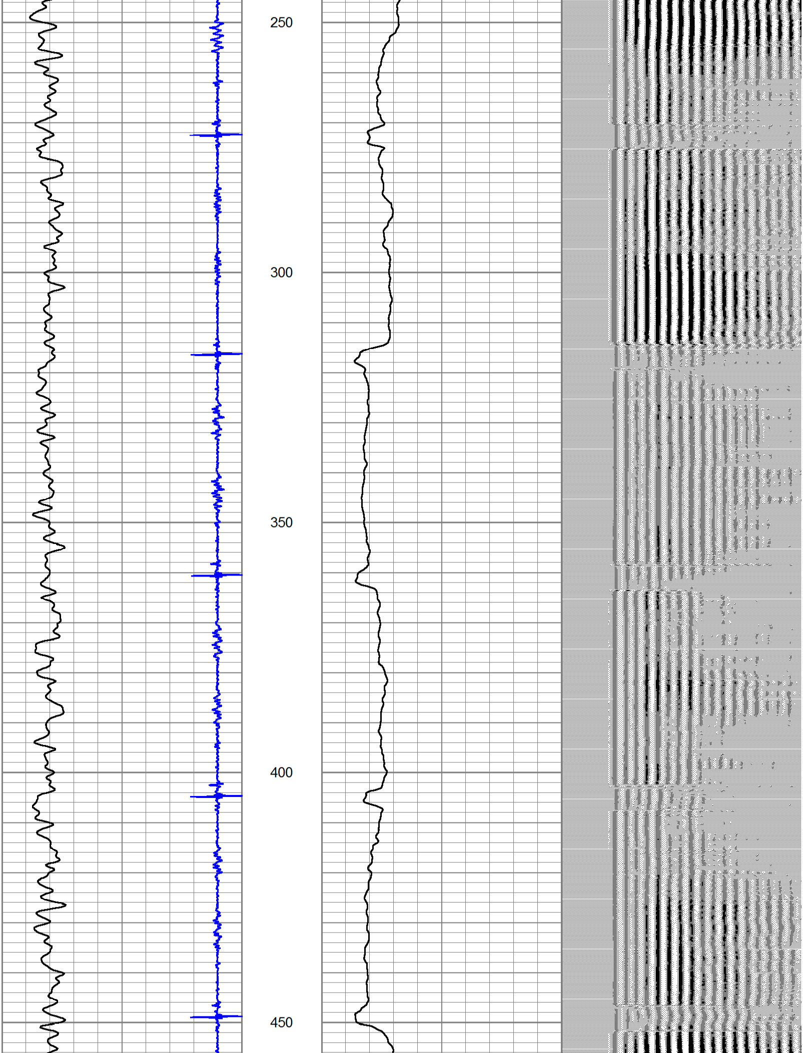
0 Amplified Amplitude (mV) 10

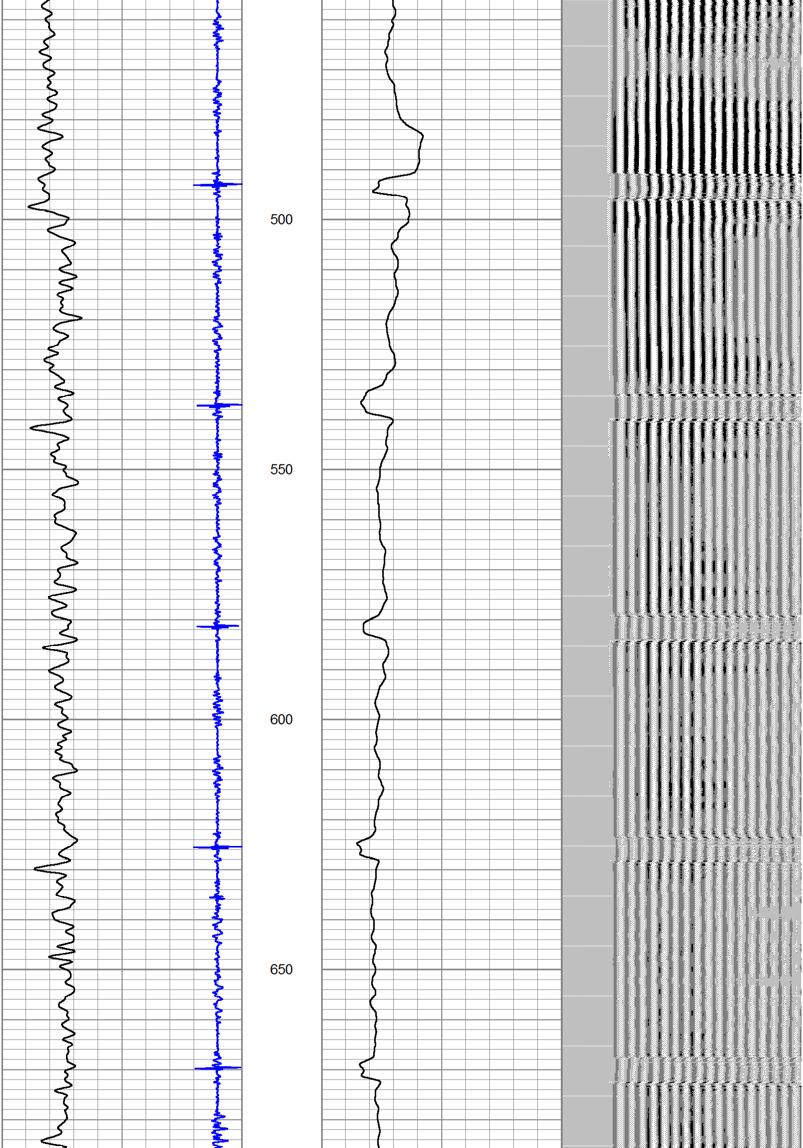
0 Amplitude (mV) 100

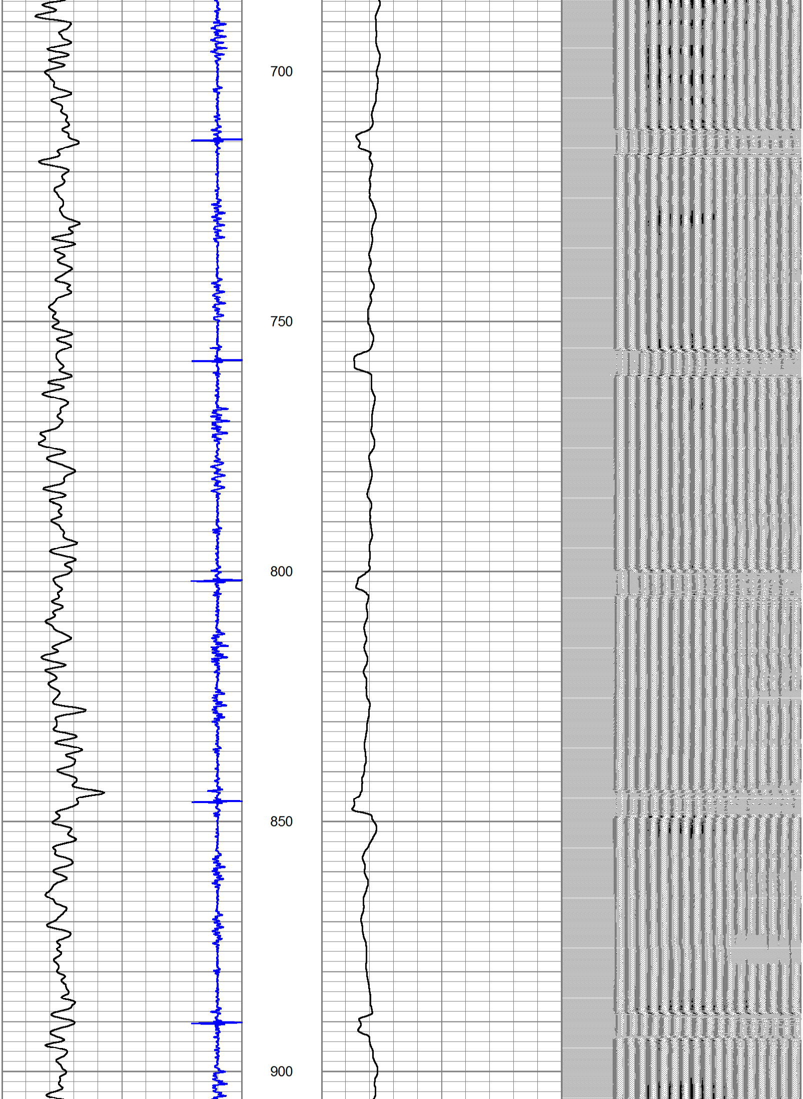
200 Variable Density 1200

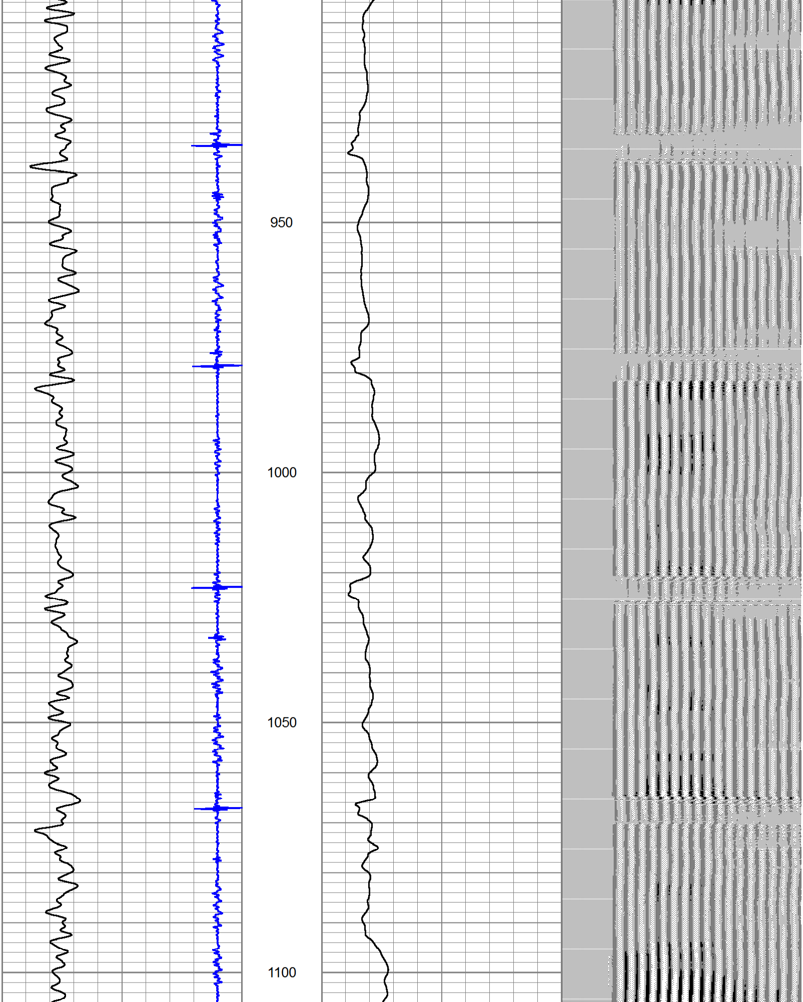


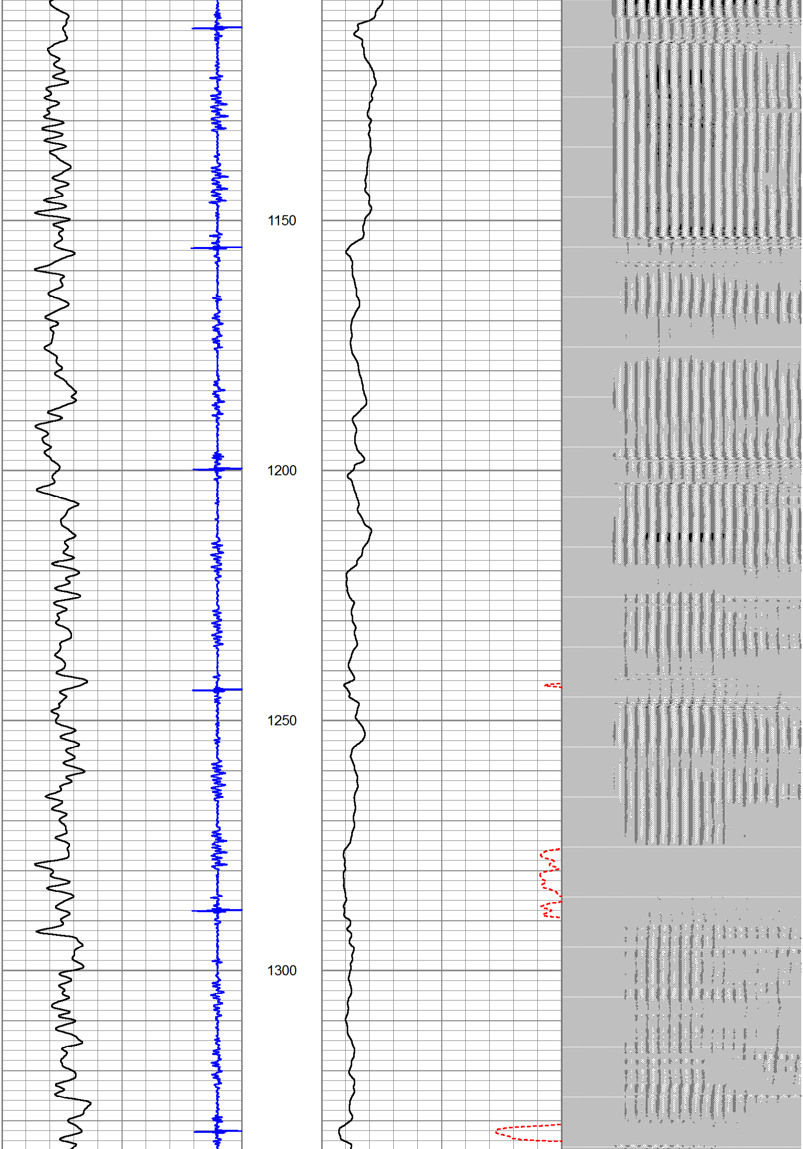


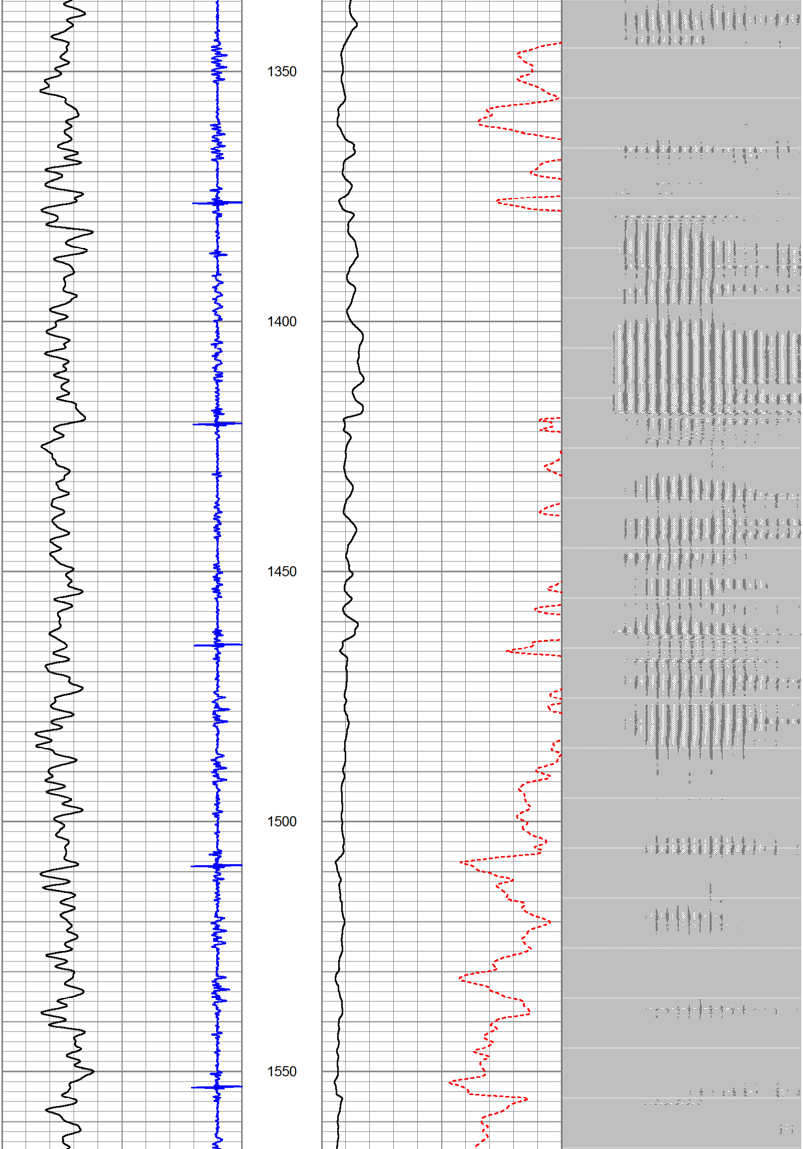


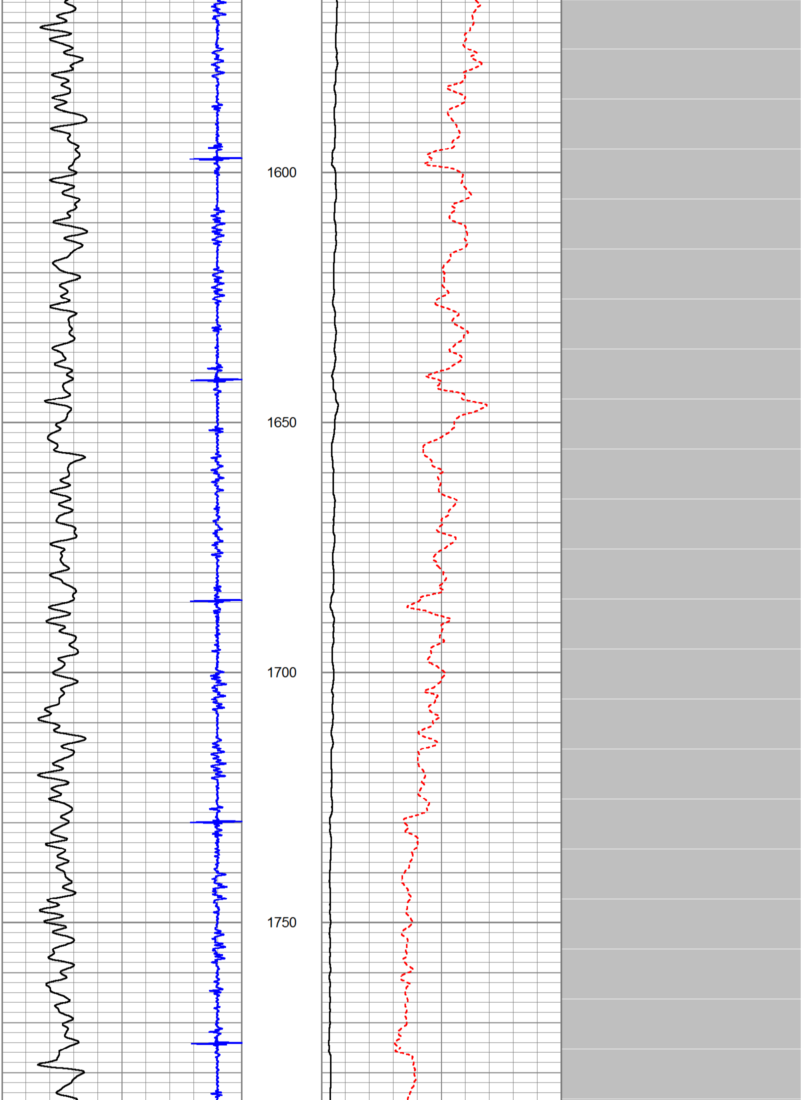


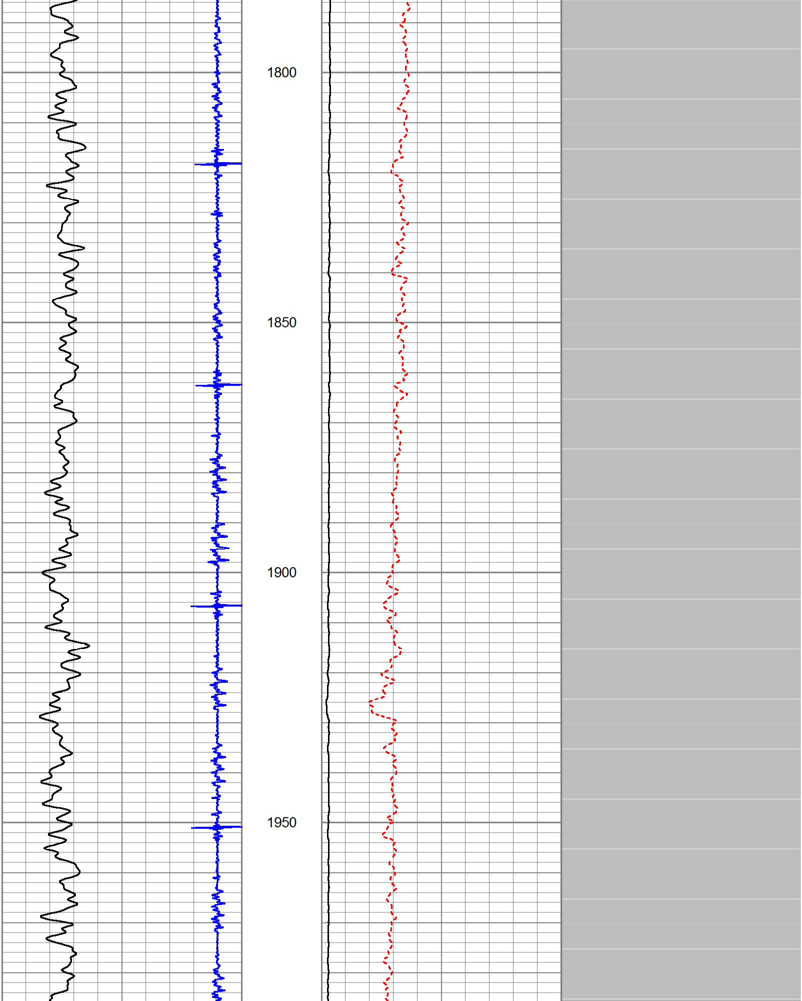


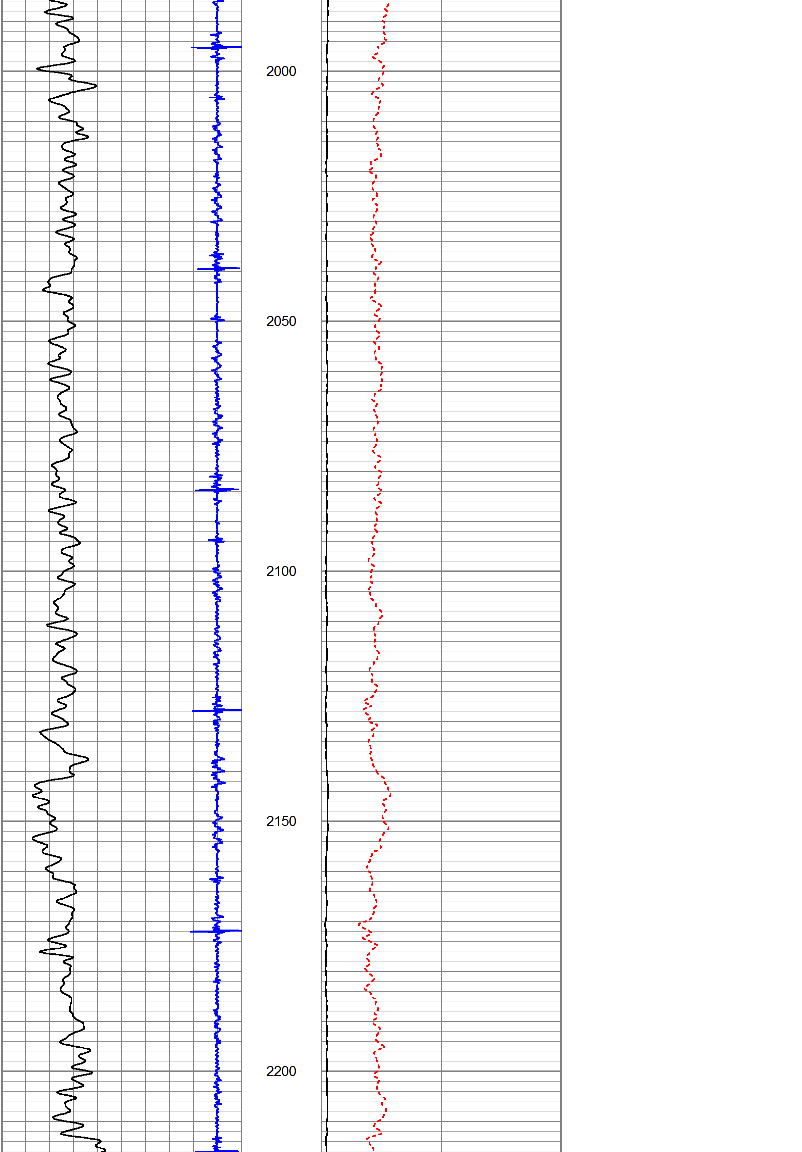


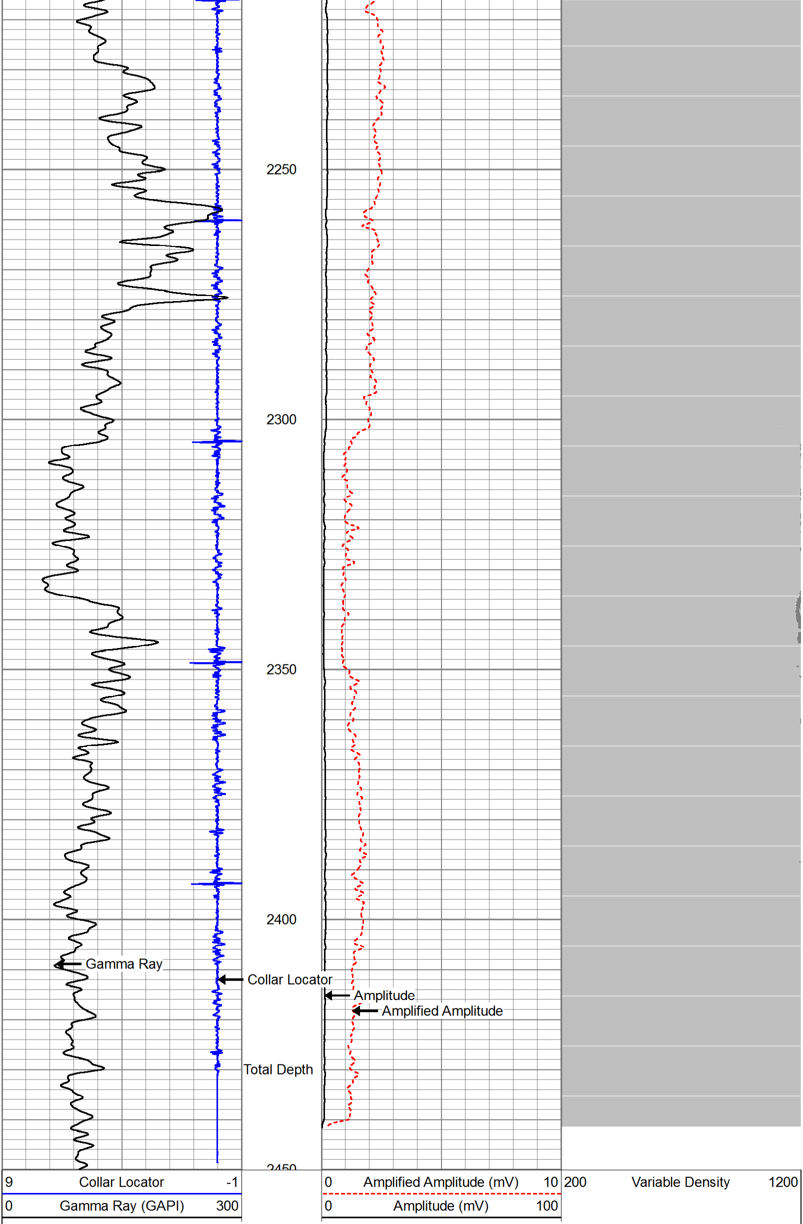












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County	YUMA
State	COLORADO