SECTOR BOND LOG
GAMMA RAY
CCL VDL

PIONEER
Pioneer Energy Services

Company	EnCana Oil & Gas (USA) Inc.
Well	Billings 2H-18H D368
Field	Wattenberg
County	Weld
State	Colorado
Country	USA

Location: API # : 05-123-36525
1307' FNL & 275' FWL NWNW
SEC 18 TWP 3N RGE 68W

Other Services: None

Permanent Datum	GL	Elevation 5197	Elevation K.B. 5227 D.F. 5227 G.L. 5197
Log Measured From	KB		
Drilling Measured From	KB		

Company EnCana Oil & Gas (USA) Inc.
Well Billings 2H-18H D368
Field Wattenberg
County Weld
State Colorado CountryUSA

Date	April 24, 2014
Run Number	1
Depth Driller	14390
Depth Logger	7498
Bottom Logged Interval	7494
Top Log Interval	Surface
Open Hole Size	8-3/4"
Type Fluid	WBM
Density / Viscosity	13.2 / 60
Max. Recorded Temp.	NA
Estimated Cement Top	220
Time Well Ready	0045
Time Logger on Bottom	0200
Equipment Number	49
Location	Ft. Morgan
Recorded By	Clint Christensen
Witnessed By	Mike Quintana

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	9.625"	40#	Surf	NA
Prot. String	7"	26#	Surf	7683
Production String				
Liner				

<<< Fold Here >>>

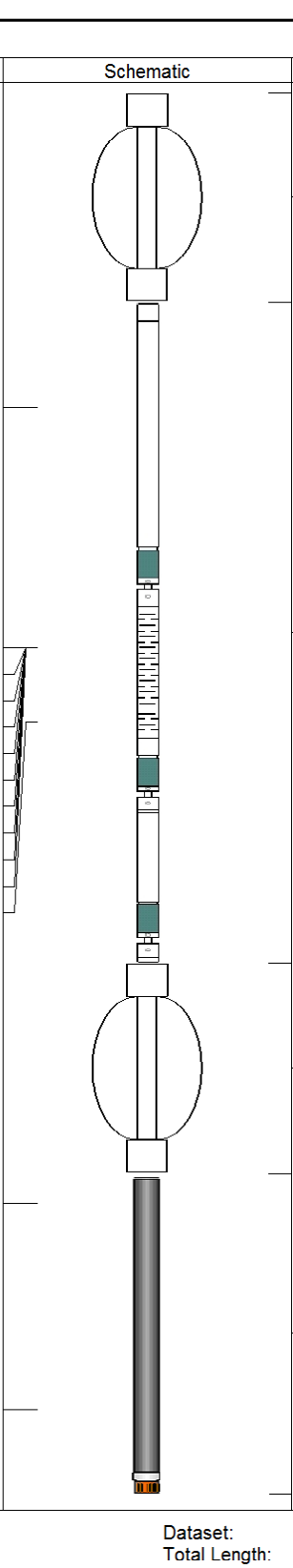
All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees.

Comments

Log correlated to 7" casing tally

Patterson UTI Drilling Rig 326

Thank You for using Pioneer Energy!
SO# 13541

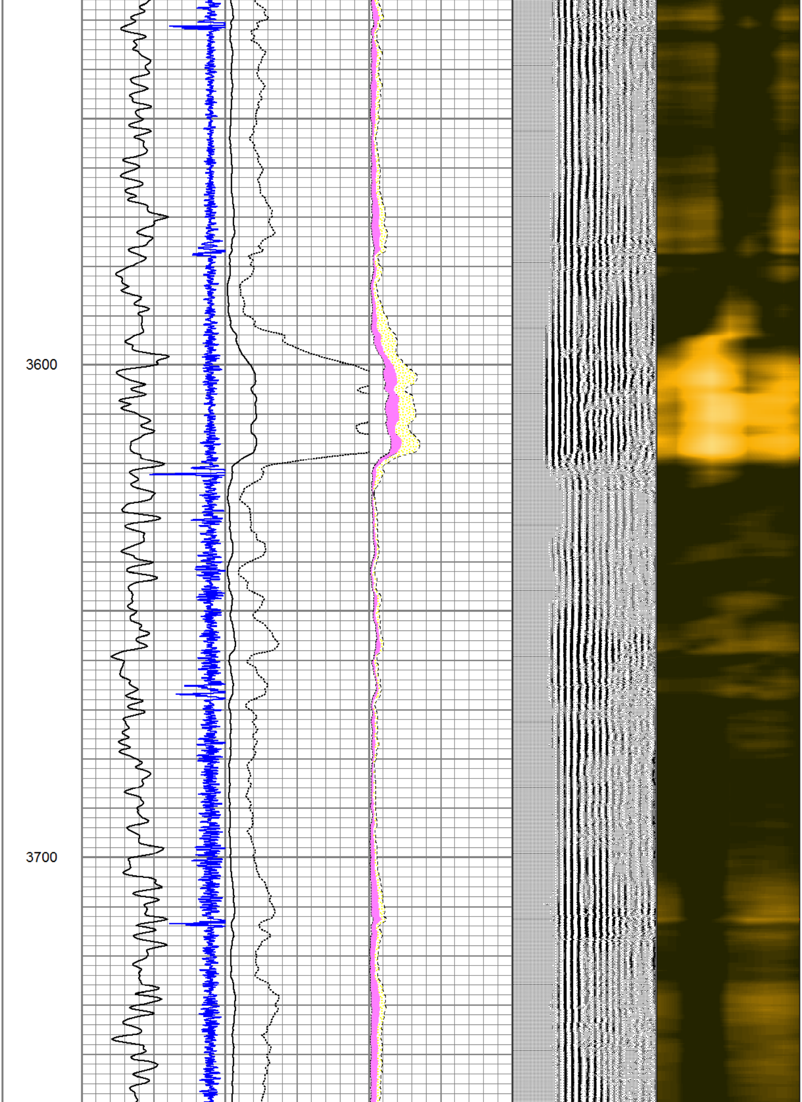


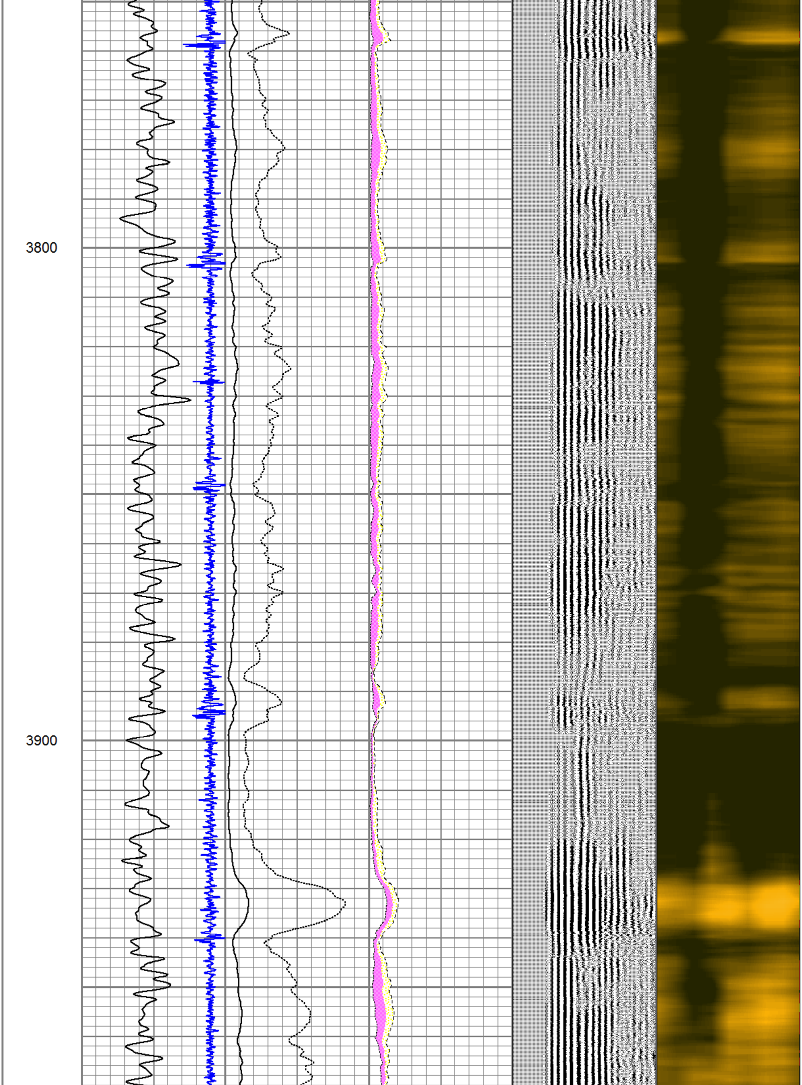
Sensor	Offset (ft)	Description	Len (ft)	OD (in)	Wt (lb)
		CENT #2 -A (1)	2.83	2.75	20.00
IntTemp	14.66				
WVF3FT	11.41	RBT-Probe (Base) Probe Radii Bond Tool with Digital Telemetry	8.92	2.75	90.00
WVFCAL	11.41				
WVFS1	11.41				
WVFS2	11.41				
WVFS3	11.41				
WVFS4	11.41				
WVFS5	11.41				
WVFS6	11.41				
WVFS7	11.41				
WVFS8	11.41				
WVF5FT	10.41				
		CENT-A (1)	2.83	2.75	20.00
CCL	3.92				
		GR-probe 2.75 (111205) proble Digital CCL Gamma	4.33	2.75	100.00
GR	1.13				

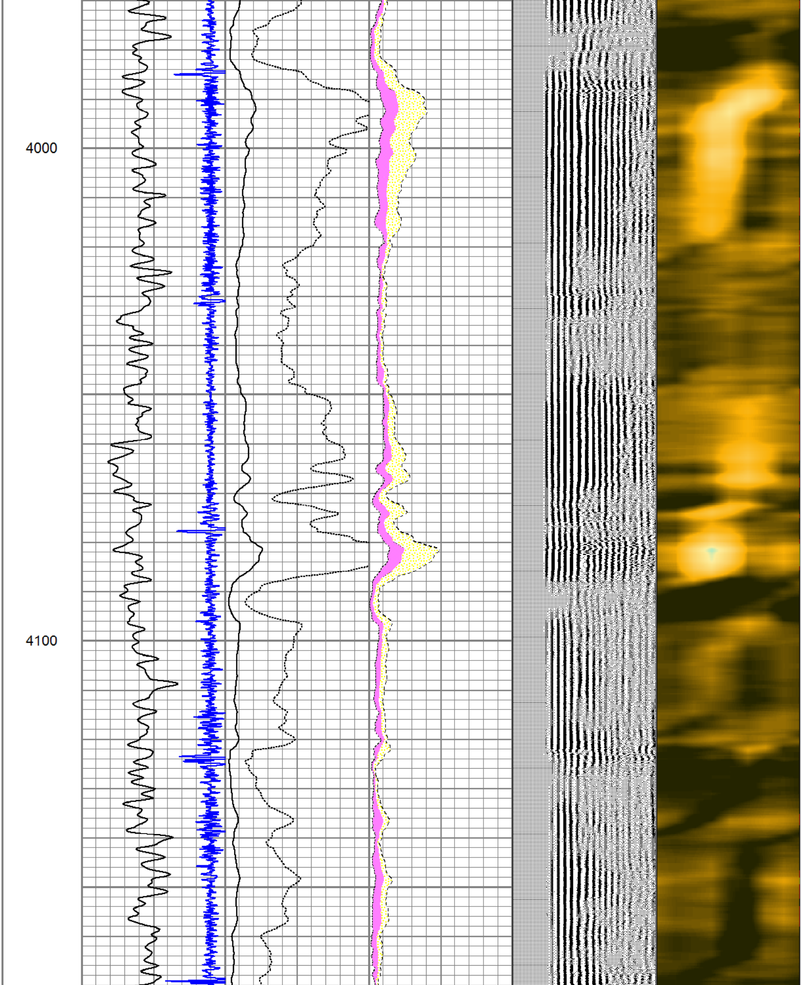
Dataset: 13541.db: field/well/run1/pass1
Total Length: 18.91 ft
Total Weight: 230.00 lb
O.D. 2.75 in

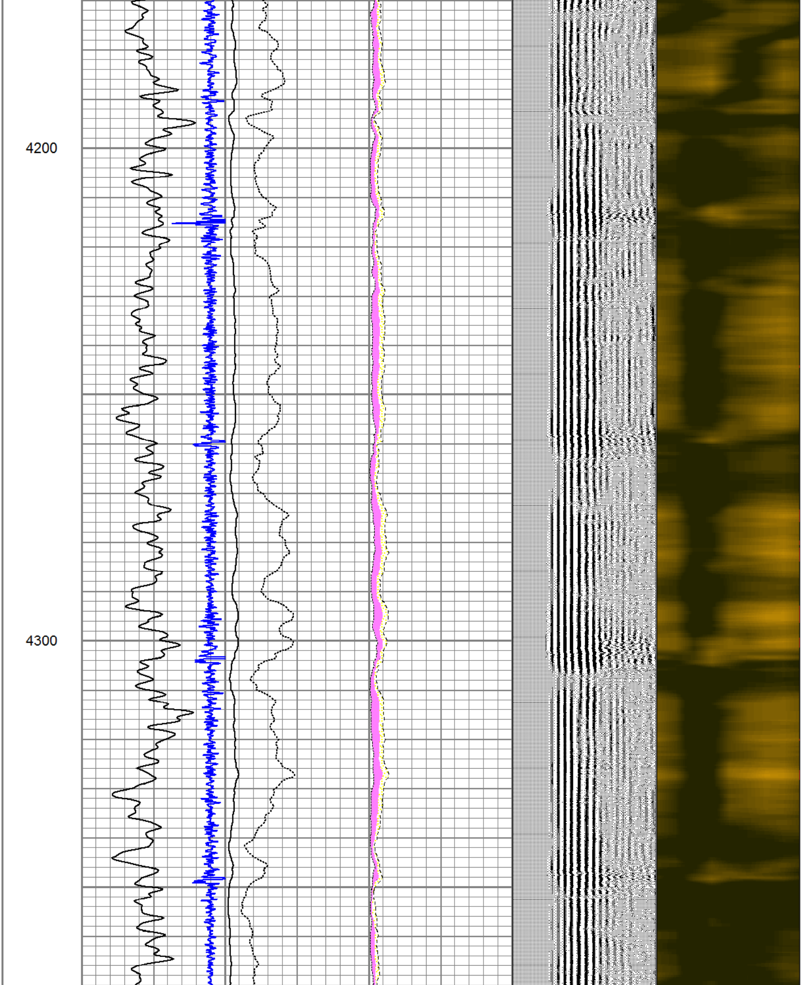
Database File: 13541.db
Dataset Pathname: Final
Presentation Format: scbl02
Dataset Creation: Thu Apr 24 04:28:07 2014
Charted by: Depth in Feet scaled 1:240

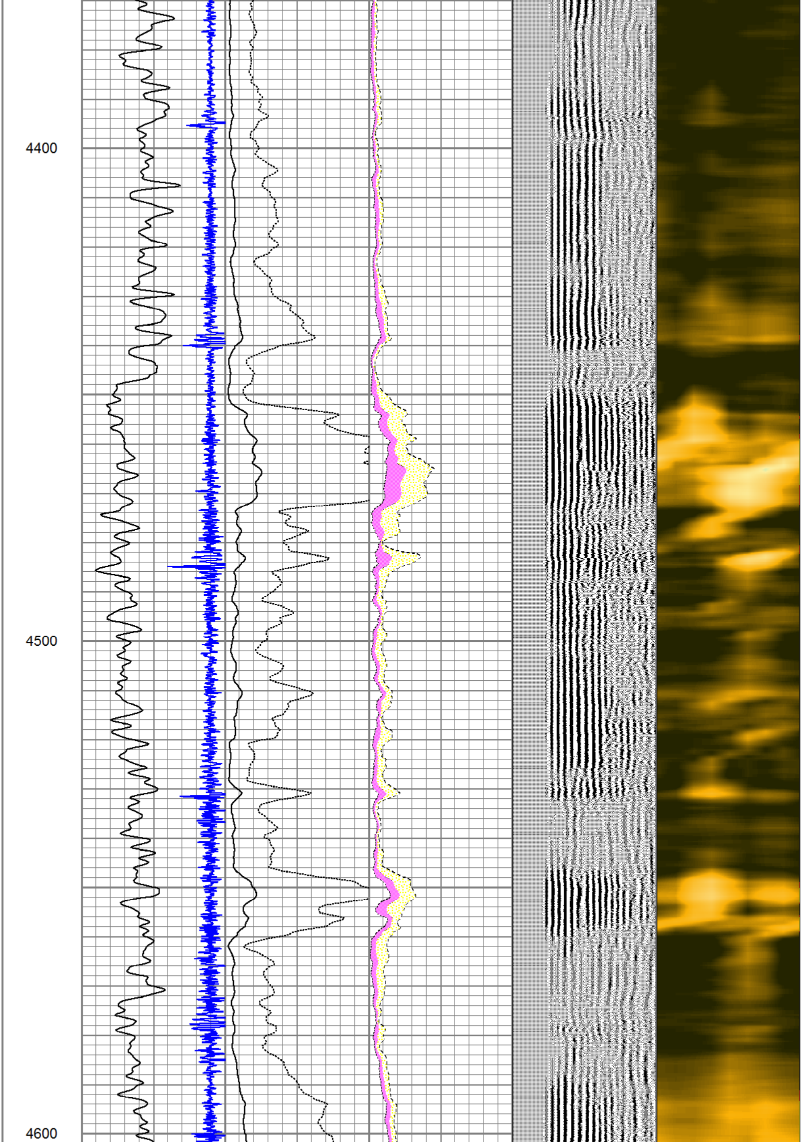
-9 CCL 1	0 AMP (mV) 100	0 AMPAVG 150	200 VDL 1200	1 SECTOR MAP 8
0 GR (GAPI) 200	0 AMPx5 (mV) 20	0 AMPMAX 150		7 122
		0 AMPMIN 150		

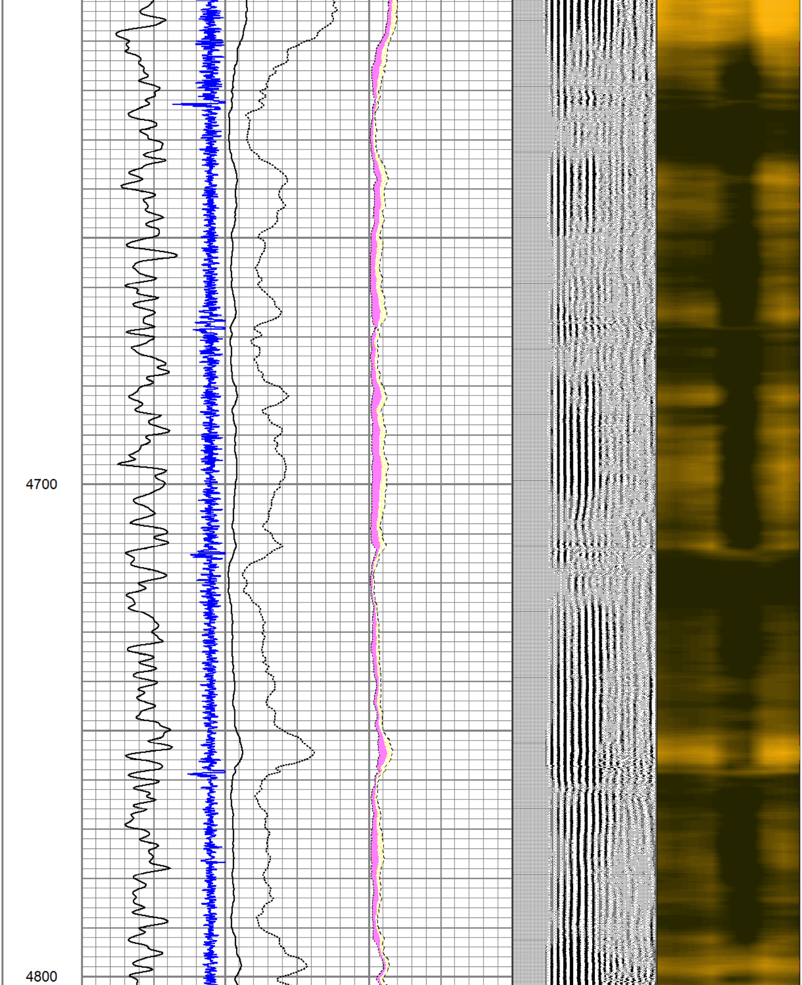

3600
3700

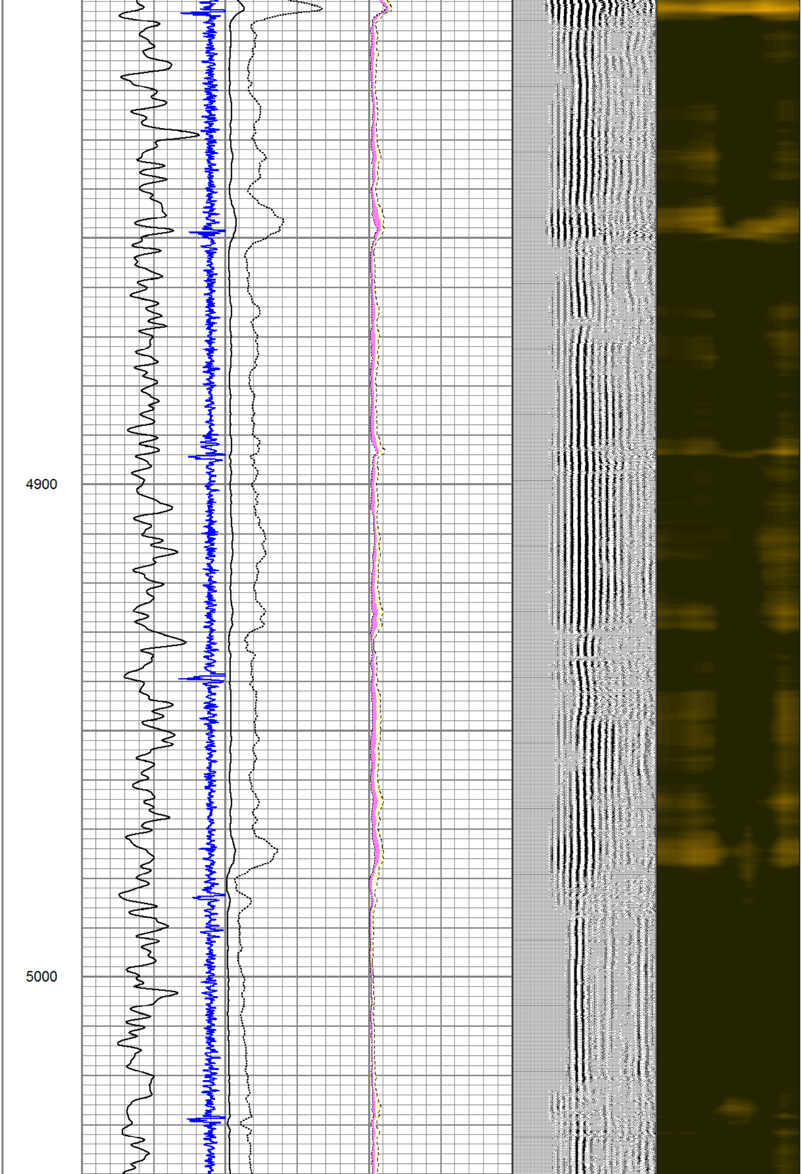

3800
3900

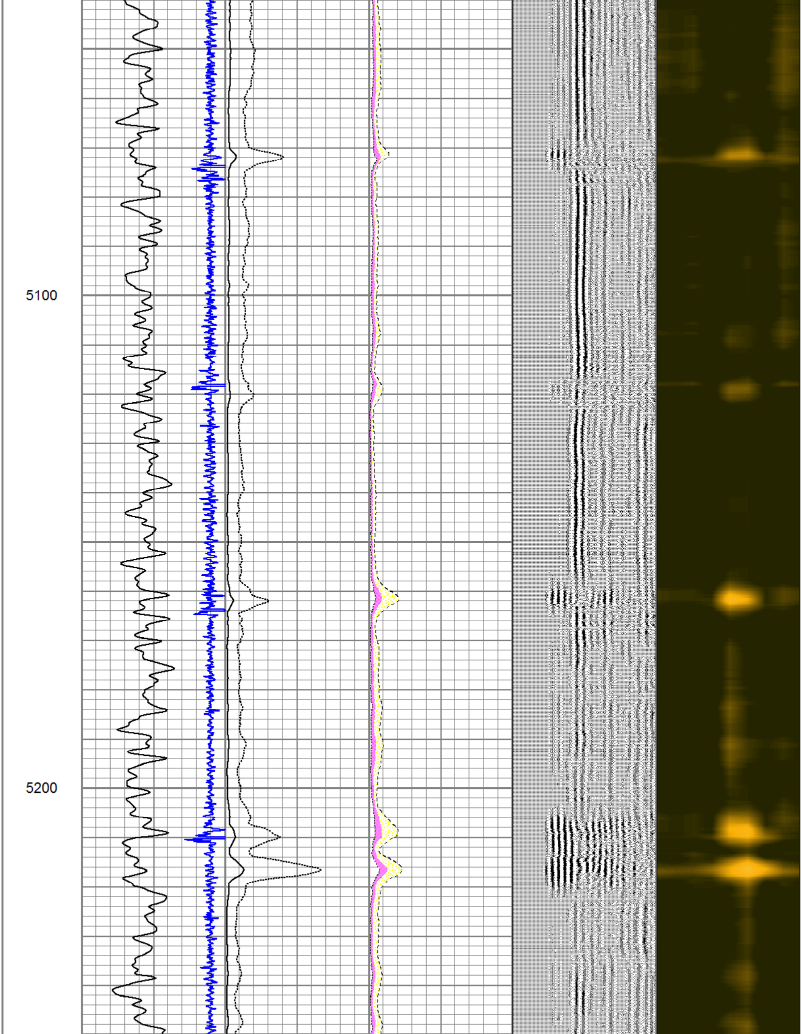

4000
4100

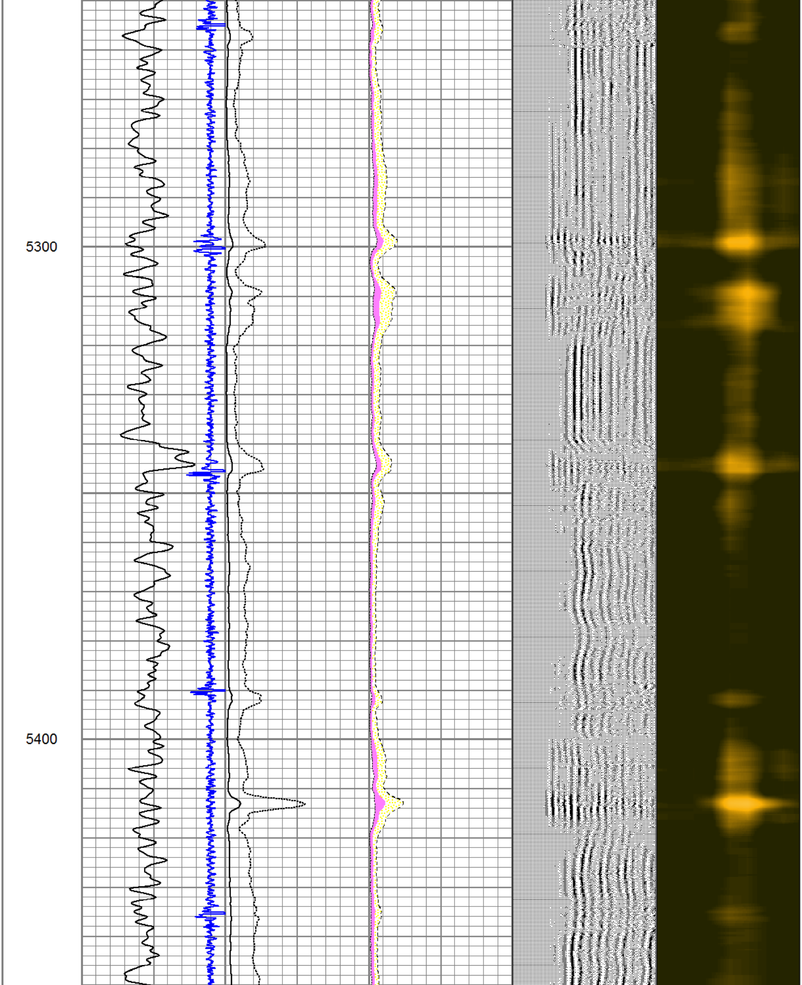

4200
4300

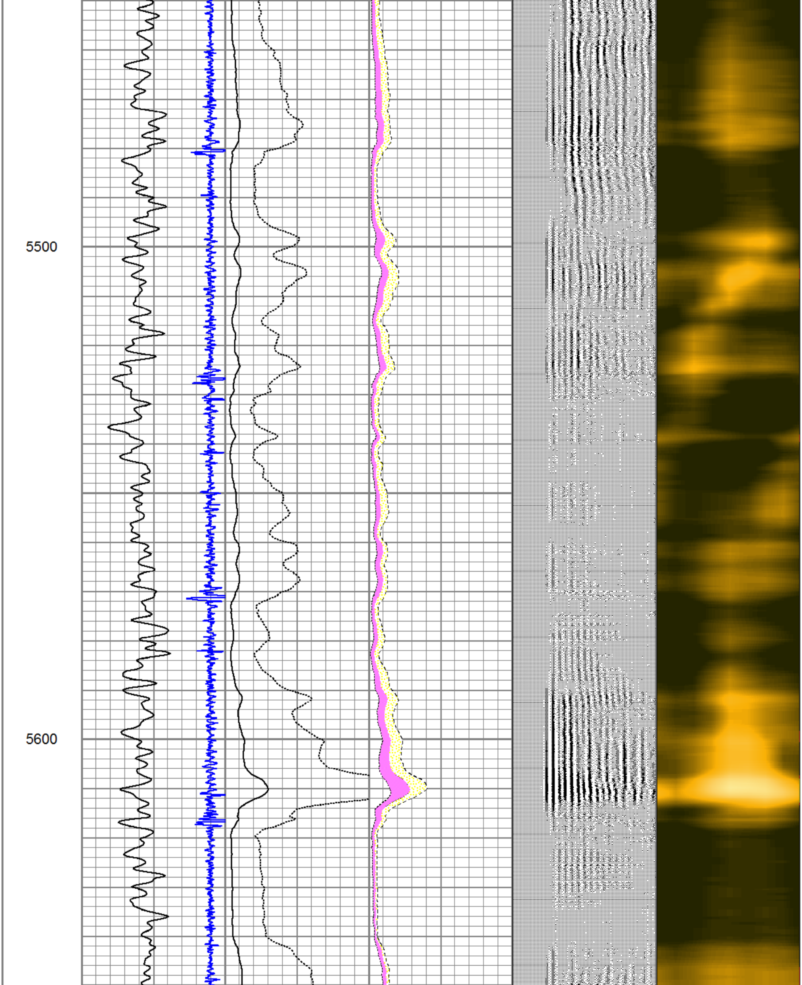

4400
4500
4600

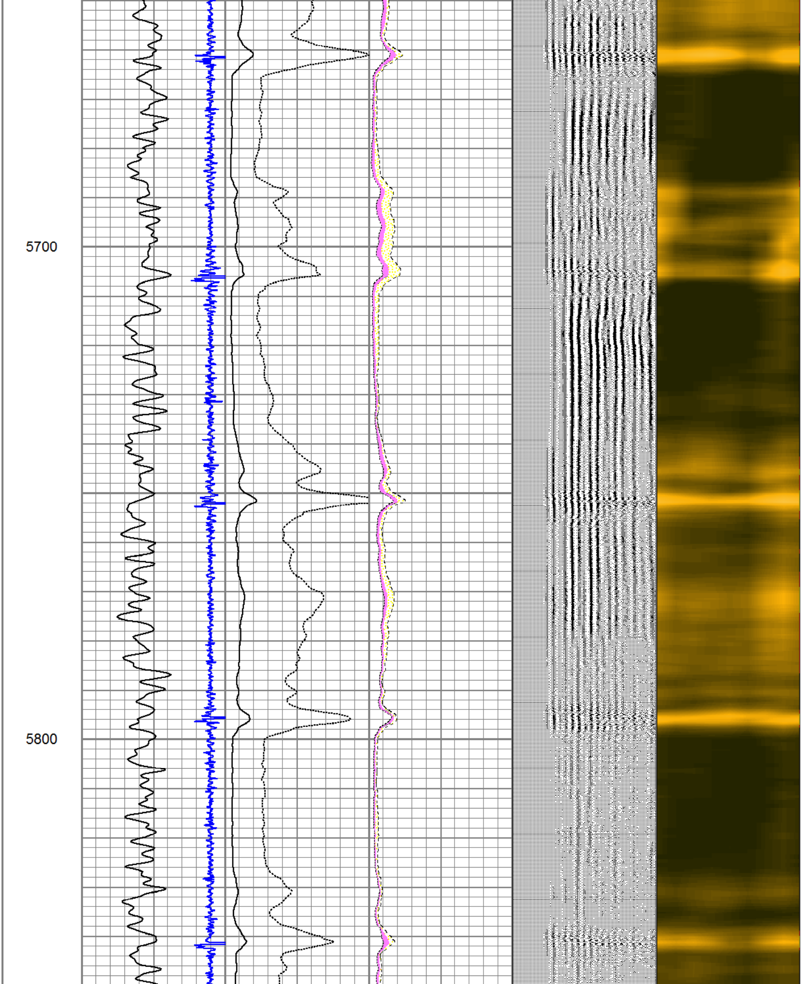

4700
4800

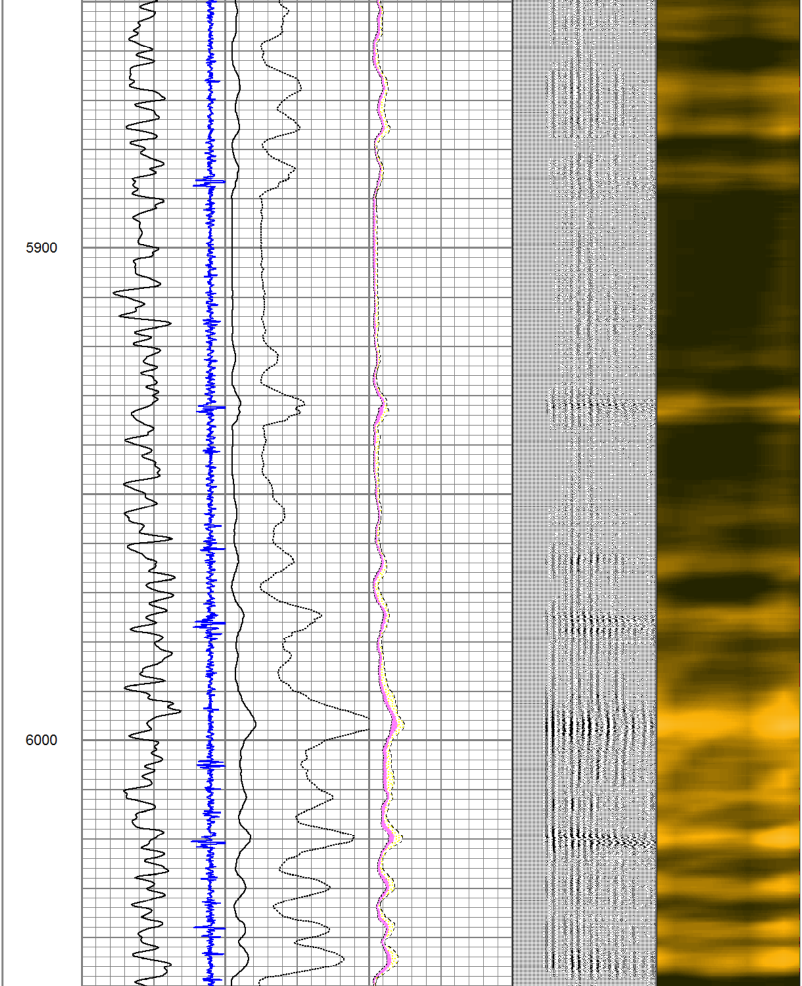

4900
5000

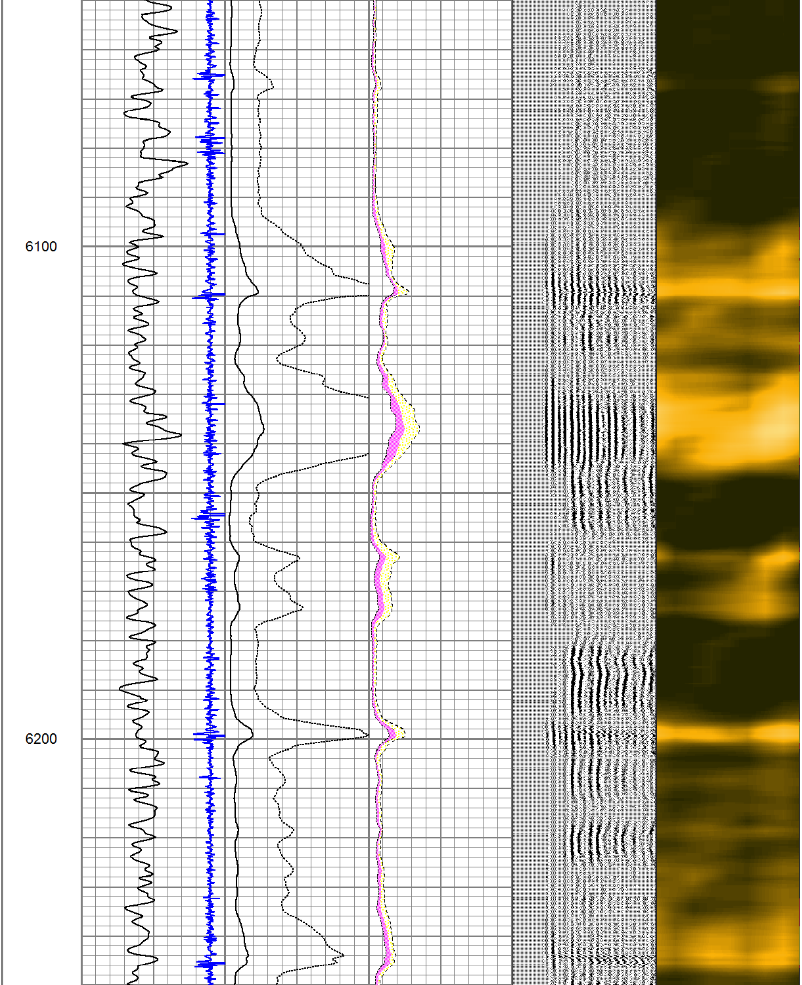

5100
5200

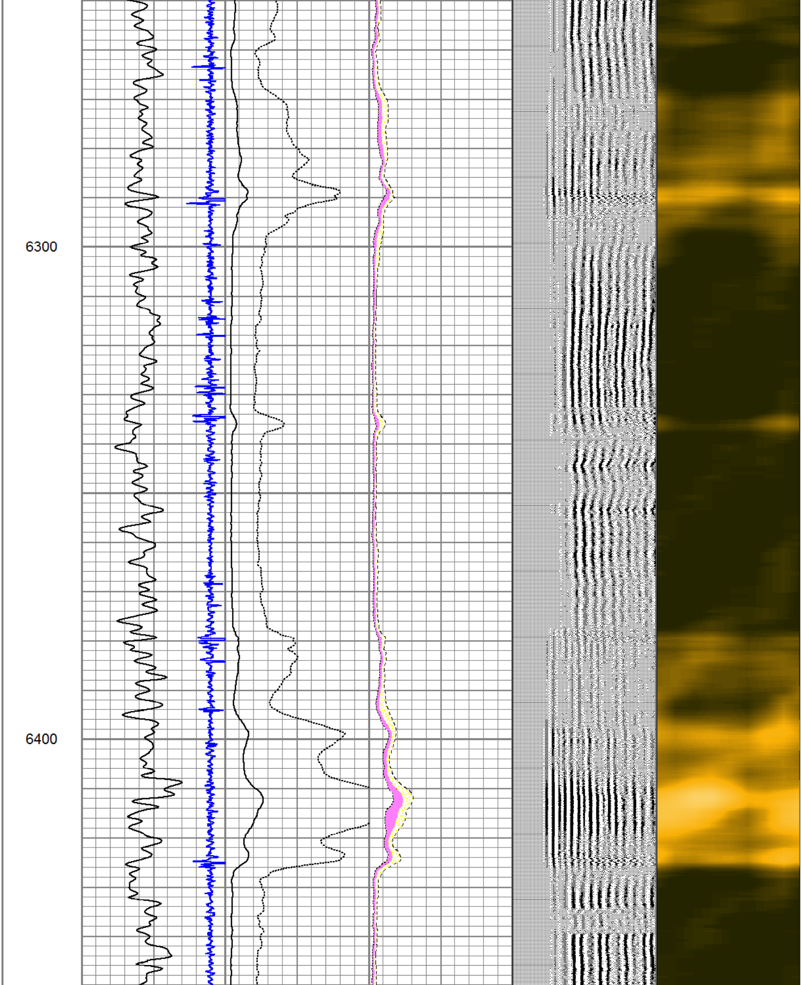

5300
5400

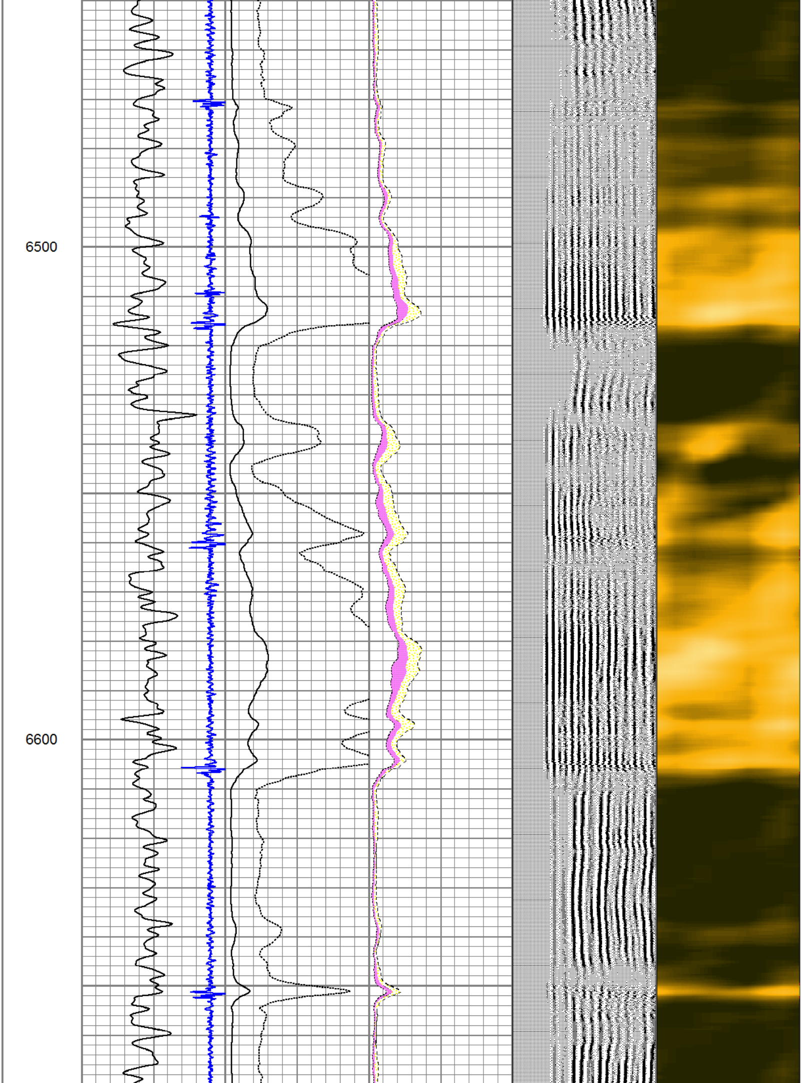

5500
5600

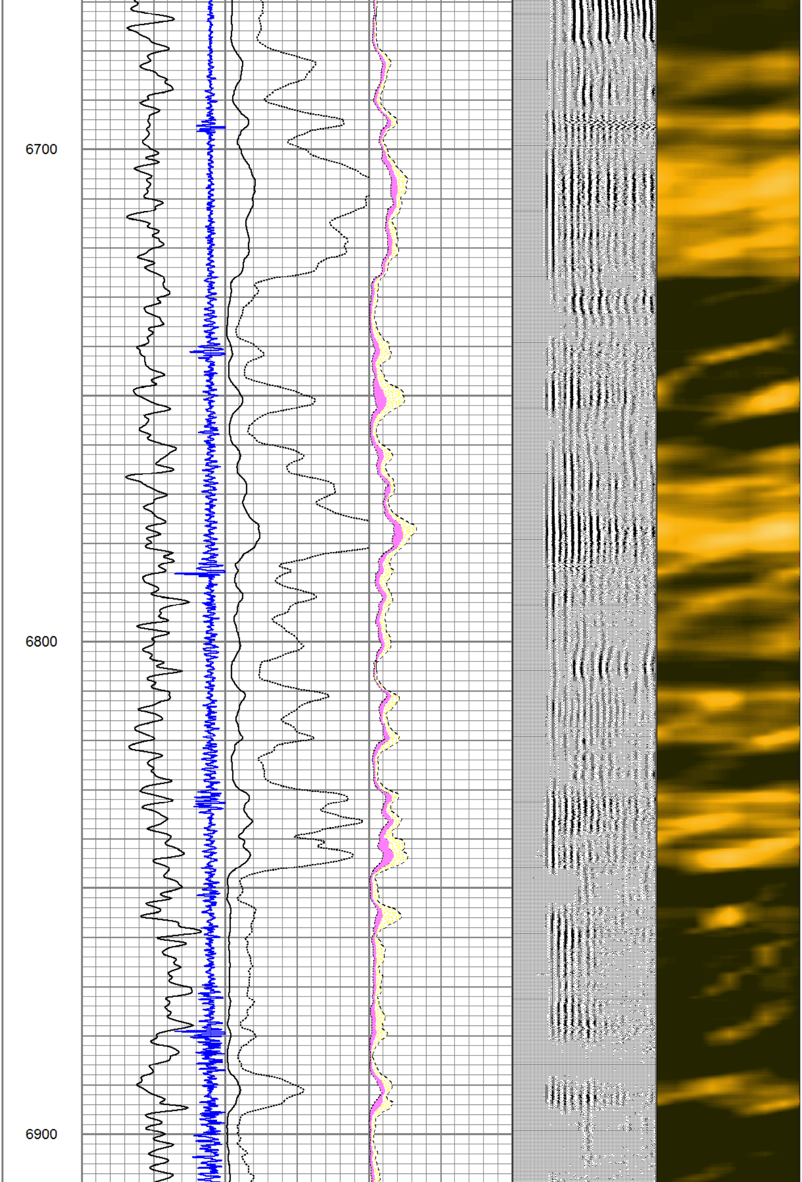

5700
5800

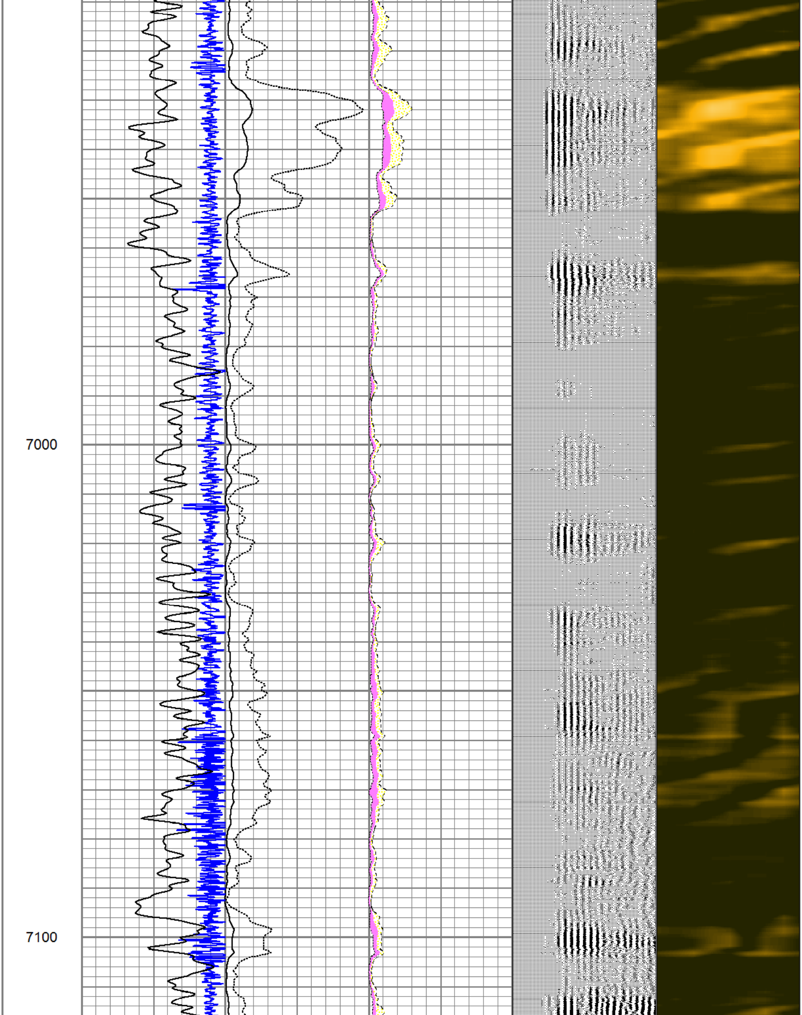

5900
6000

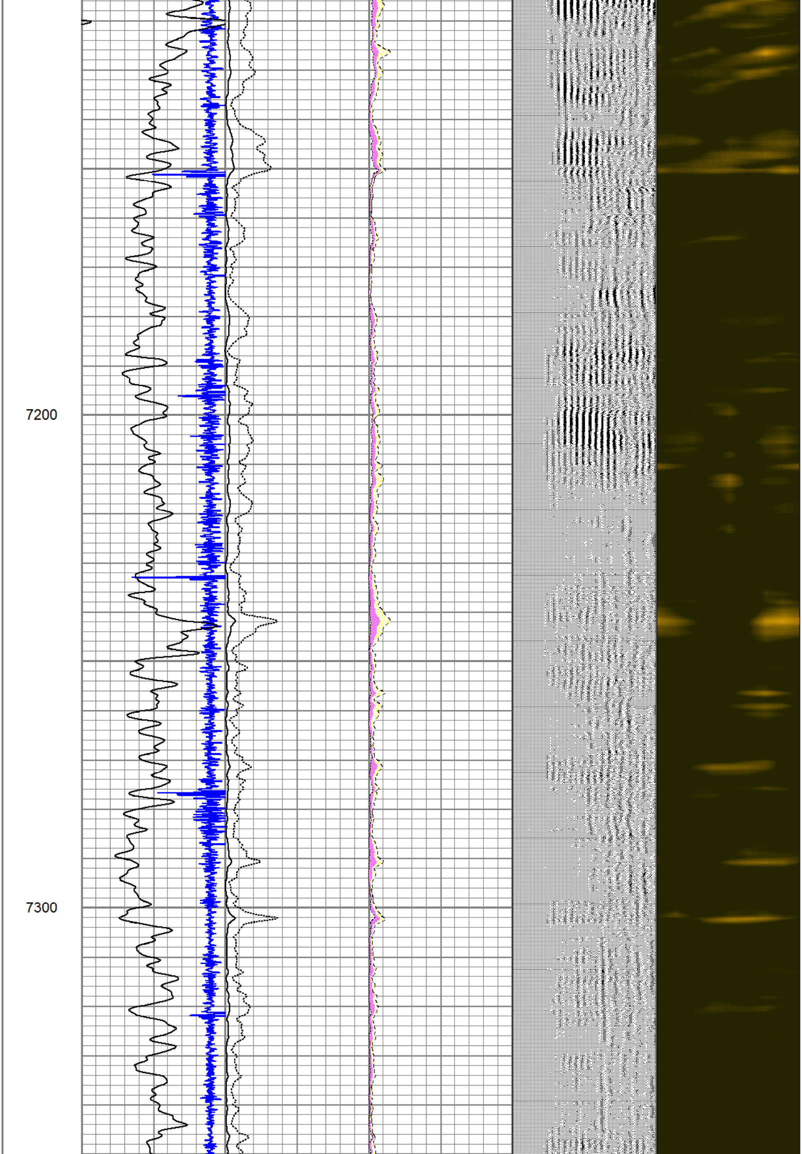

6100
6200

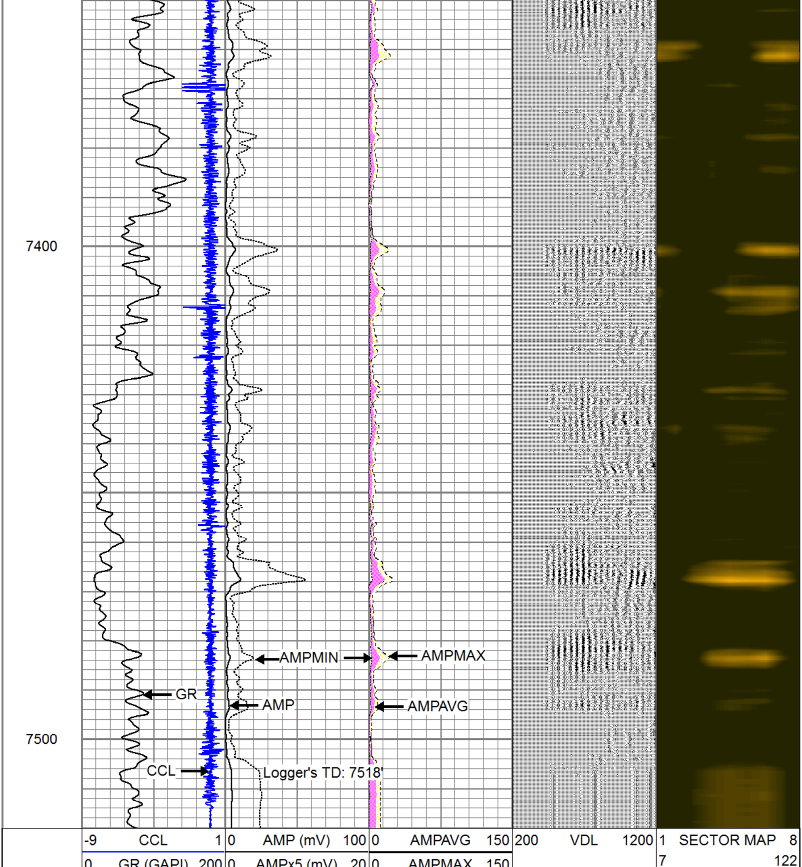

6300
6400


6500
6600


6700
6800
6900


7000
7100


7200
7300


7400
7500
AMPMIN
AMPMAX
GR
AMP
AMPAVG
CCL
Logger's TD: 7518'
-9 CCL 1
0 GR (GAPI) 200
0 AMP (mV) 100
0 AMPx5 (mV) 20
0 AMPAVG 150
0 AMPMAX 150
200 VDL 1200
1 SECTOR MAP 8
7 122

0 AMPMIN 150

Calibration Report

Database File:	13541.db
Dataset Pathname:	pass1
Dataset Creation:	Thu Apr 24 00:26:40 2014 by Log 0

Gamma Ray Calibration Report

Serial Number:	111205	
Tool Model:	probe 2.75	
Performed:	Wed Feb 26 01:14:34 2014	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	Base	
Tool Model:	Probe	
Calibration Casing Diameter:	4.500	in
Calibration Depth:	141.154	ft

Master Calibration, performed Tue Apr 01 23:42:50 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.012	0.743	0.000	62.200	73.710	-0.775
CAL	0.012	1.010				
5'	0.012	0.741	0.000	62.200	79.044	-0.296
SUM						
S1	0.005	0.807	0.000	100.000	89.564	-0.134
S2	0.012	0.829	0.000	100.000	85.576	-0.692
S3	0.012	0.762	0.000	100.000	86.796	-0.765
S4	0.012	0.690	0.000	100.000	93.872	-0.621
S5	0.012	0.658	0.000	100.000	100.178	-0.521
S6	0.012	0.656	0.000	100.000	99.425	0.057
S7	0.012	0.687	0.000	100.000	90.963	-0.437
S8	0.012	0.730	0.000	100.000	90.400	-0.659

Internal Reference Calibration, performed Tue Nov 21 12:42:07 2006:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.012	1.010	1.000	0.000

Air Zero Calibration, performed Thu Apr 24 09:23:40 2008:

	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