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Pioneer Energy Services

RADIAL SECTOR BOND LOG WITH GAMMA RAY

Company	**KERR-MCGEE OIL & GAS ONSHORE**
Well	**DEVON 38-8**
Field	**WATTENBERG**
County	**WELD**
State	**CO**

Location: API # : 05123242570000
716' FSL & 622' FEL SESE
LAT: 40.234
LONG: -104.79416
SEC 8 TWP 3N RGE 66W

Other Services
None

			Elevation
Permanent Datum	GL	Elevation 4890	K.B. 4902
Log Measured From	KB		D.F. 4901
Drilling Measured From	KB...12' ABOVE GL		G.L. 4890

Company	KERR-MCGEE OIL & GAS ONSHORE
Well	DEVON 38-8
Field	WATTENBERG
County	WELD
State	CO

Date of Service	FEBRUARY 19, 2015		
Run Number	1		
Depth Driller or PBTD	8109		
Depth Logger	1700		
Bottom Log Interval	1698		
Top Log Interval	SURFACE		
Open Hole Size	7+7/8"		
Type Fluid	WATER		
Fluid Level	SURFACE		
Fluid Density	8.33 PPG		
Max. Recorded Temperature	89 F		
Max. Wellhead Pressure	0		
Wellhead Connection	PACKOFF		
Estimated Cement Top	598		
Unit Number	P96		
Wireline Size	1/4"		
Location	FT. MORGAN, CO		
Recorded By	SCHUMAN		
Witnessed By	MR NICK LANG		

	Size	Wt/Ft	Top	Bottom
Tubing Record				
Surface Casing	8+5/8"	24#	SURFACE	859
Production Casing	4+1/2"	10.5#	SURFACE	8094
Liner Record				

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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.

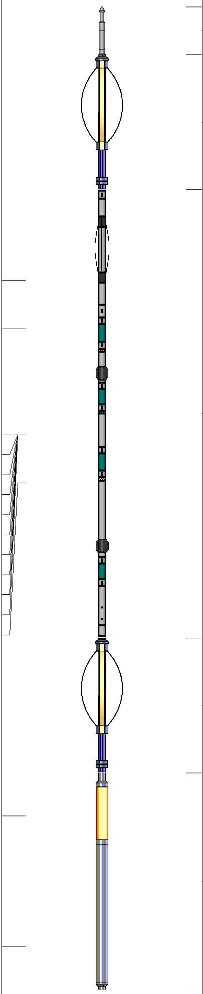
Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.
S.O. # 2-280129

THANK YOU FOR USING PIONEER ENERGY SERVICES

Your Pioneer ENERGY Services Crew
Engineer: SHAUN
Operator: GENO
Operator: ANGELO
Operator: MATT

Tool Data - Services	Serial Number
SECTOR CBL	141167
GR	080538

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			STNDRD Standard Cable Head	1.00	1.69	10.00
			PTS275	2.83	2.75	
IntTemp	14.88					
TEMP	13.86					
			RBT-RBT-C3 (141167_4in) Probe Radii Bond Tool with Digital Telemetry	9.40	2.75	90.00
WVF3FT	11.63					
WVFCAL	11.63					
WVFS1	11.63					
WVFS2	11.63					
WVFS3	11.63					
WVFS4	11.63					
WVFS5	11.63					
WVFS6	11.63					
WVFS7	11.63					
WVFS8	11.63					
WVF5FT	10.63					
			PTS275	2.83	2.75	
CCL	3.63					
			GR_CCL-Probe (110249) Probe Gamma CCL	4.54	2.75	100.00
GR	0.90					

Dataset:	devon 38-8.db: field/well/run1/pass1
Total Length:	20.60 ft
Total Weight:	200.00 lb
O.D.	2.75 in

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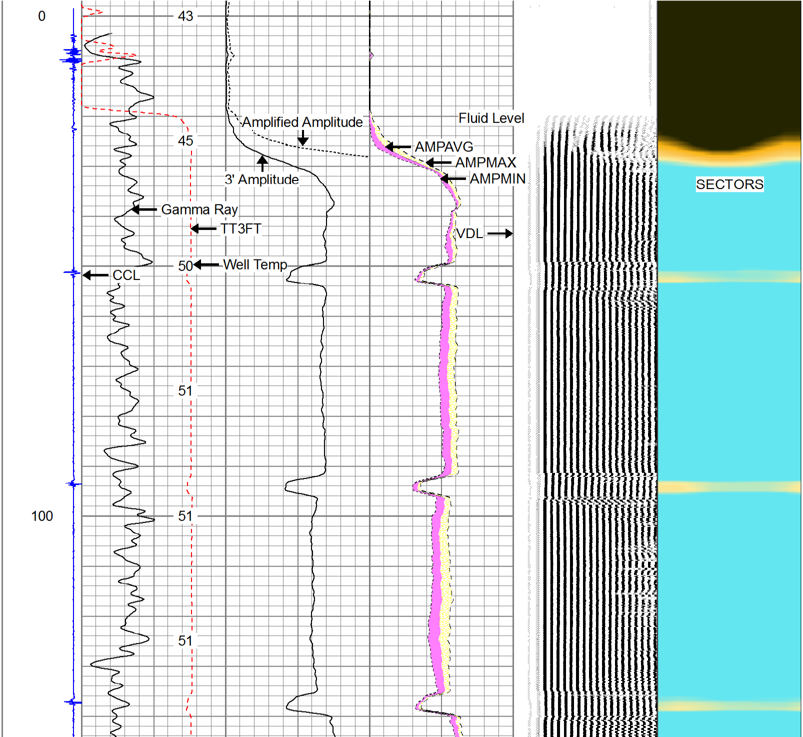
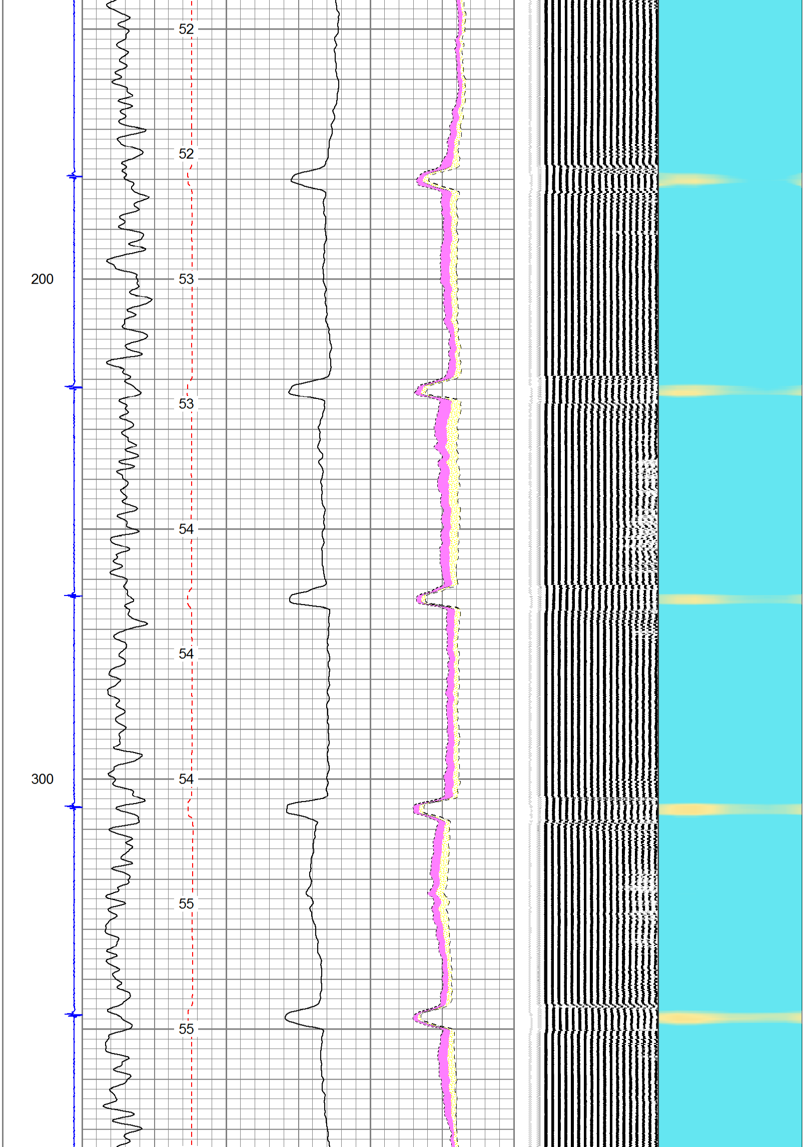
MAIN LOG

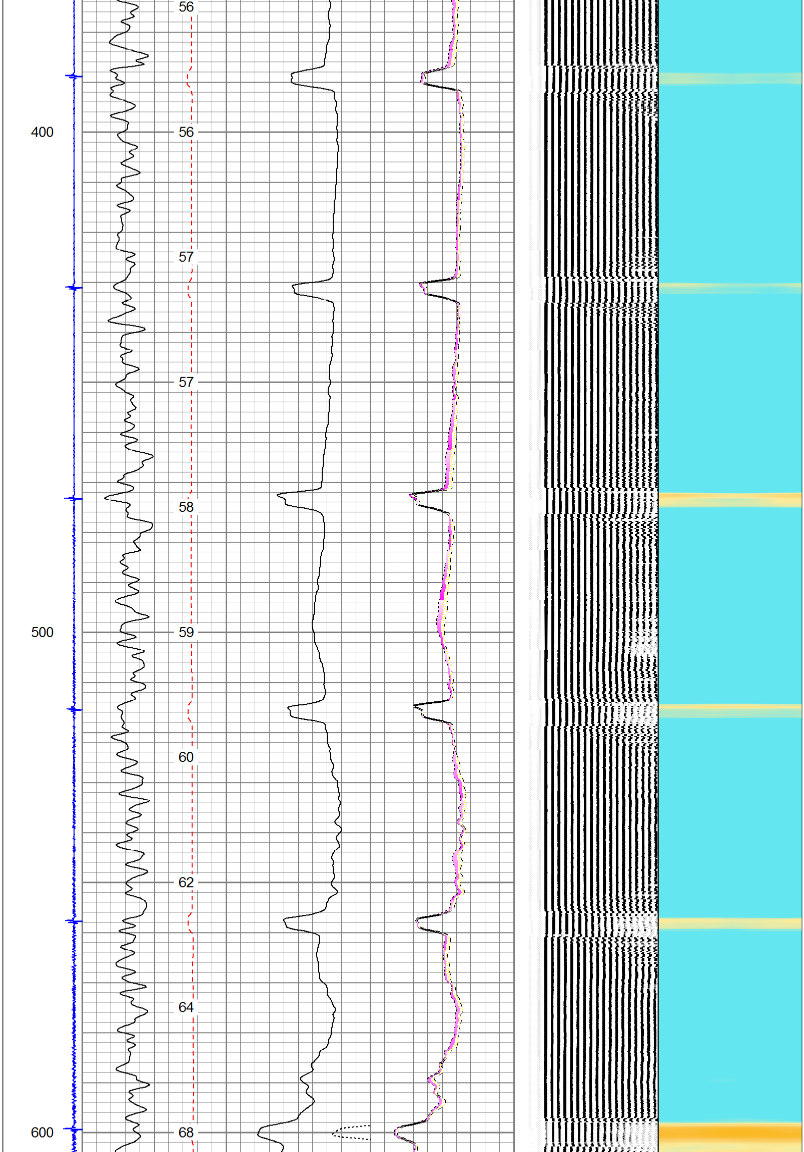
LOGGED WITH 0 PSI APPLIED AT SURFACE

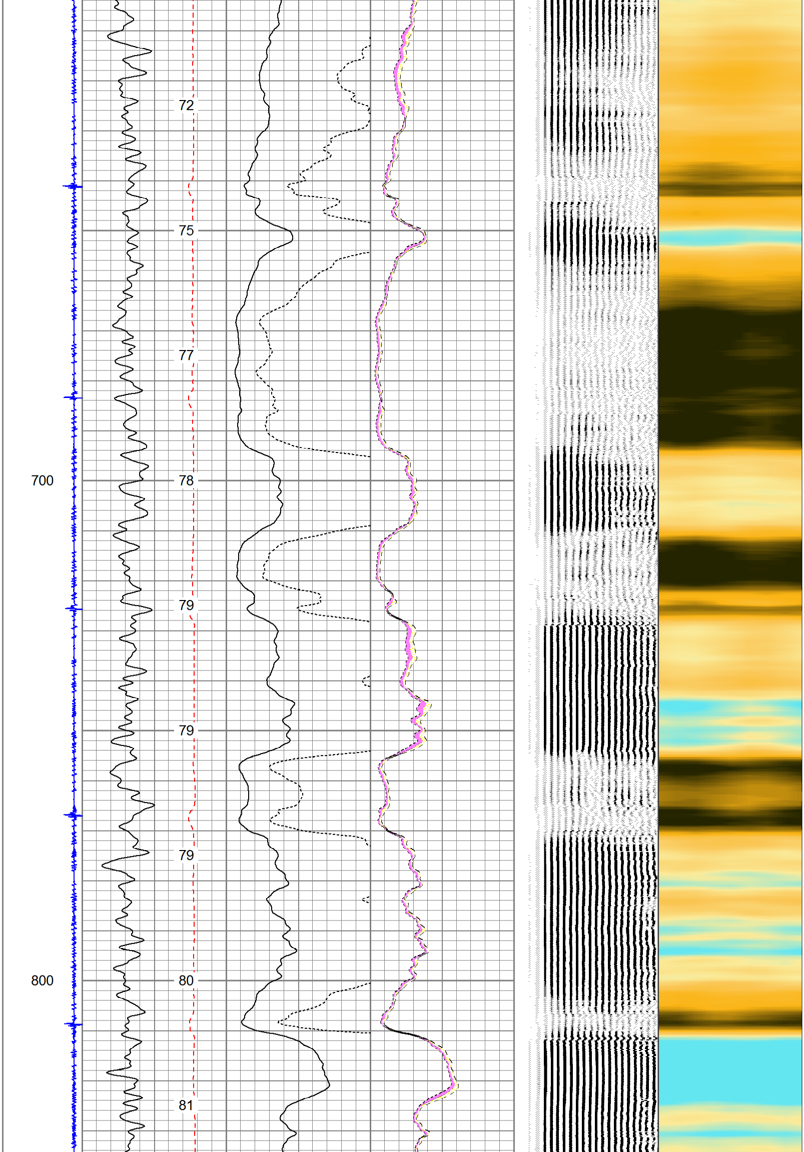
Database File:	devon 38-8.db
Dataset Pathname:	pass3.1
Presentation Format:	scbl02
Dataset Creation:	Thu Feb 19 08:10:41 2015 by Calc 7.0 B1
Charted by:	Depth in Feet scaled 1:240

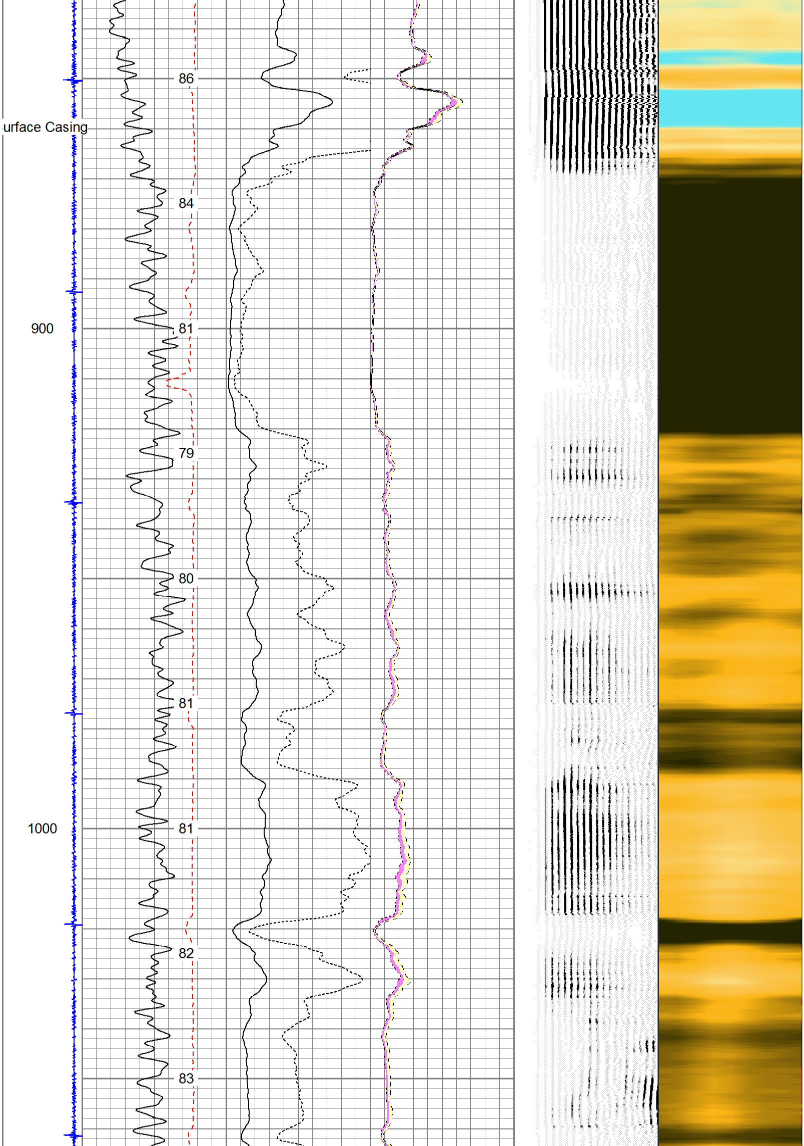
-9 CCL 1	Gamma Ray	3' Amplitude	0 AMPAVG 150	200 VDL 1200	1 SECTOR MAP 8
	0 (GAPI) 200	0 (mV) 100	0 AMPMAX 150		10 60
	TT3FT	Amplified Amplitude	0 AMPMIN 150		
	400 (usec) 200	0 (mV) 30			
	Well Temp (degF)				

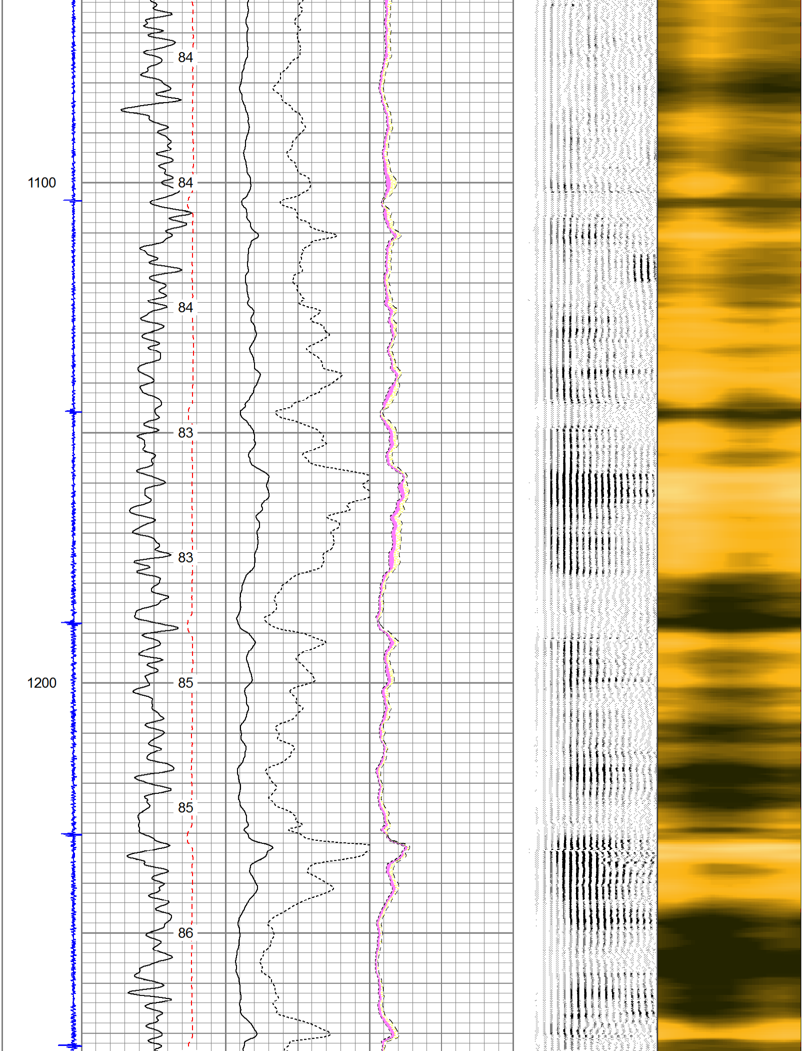


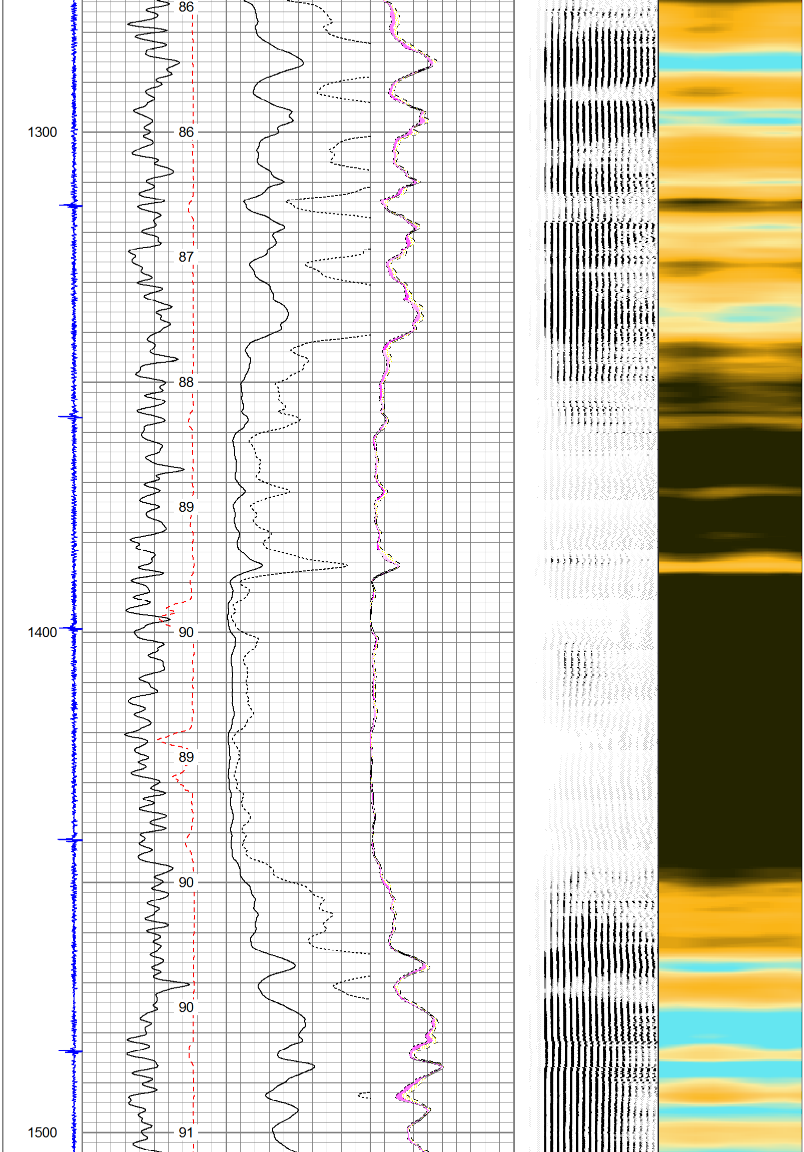


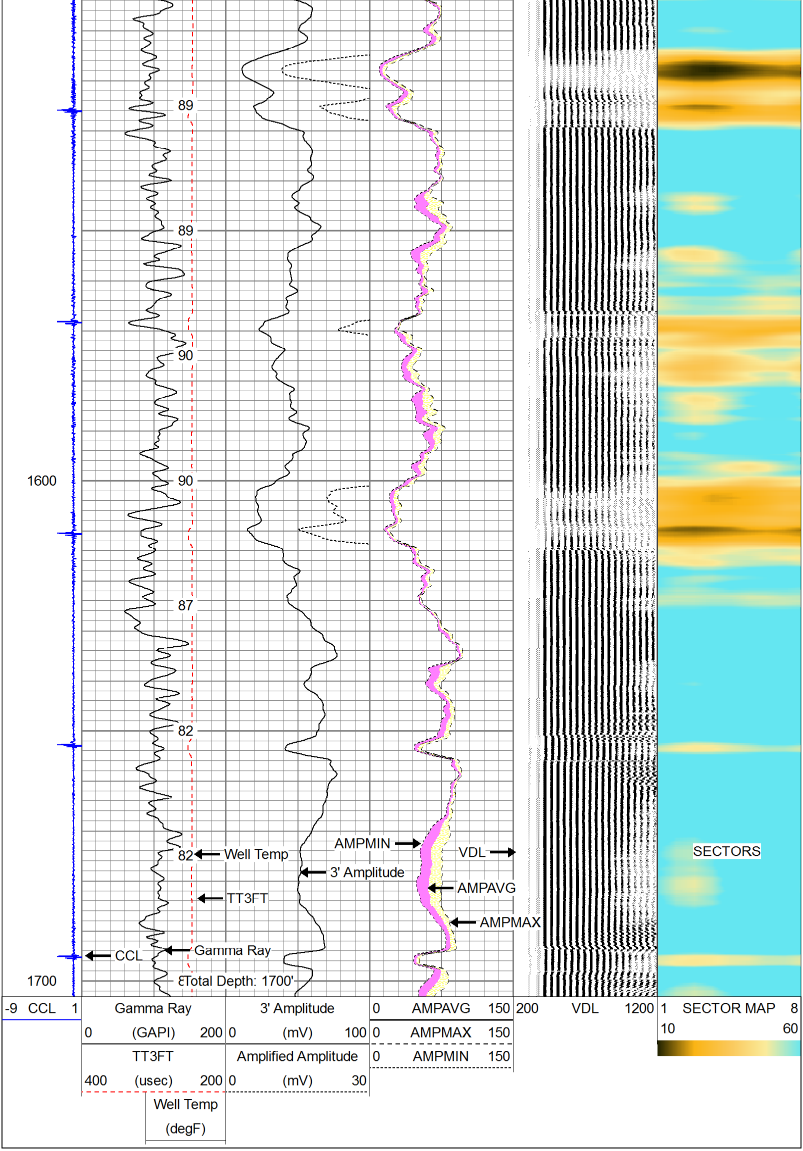












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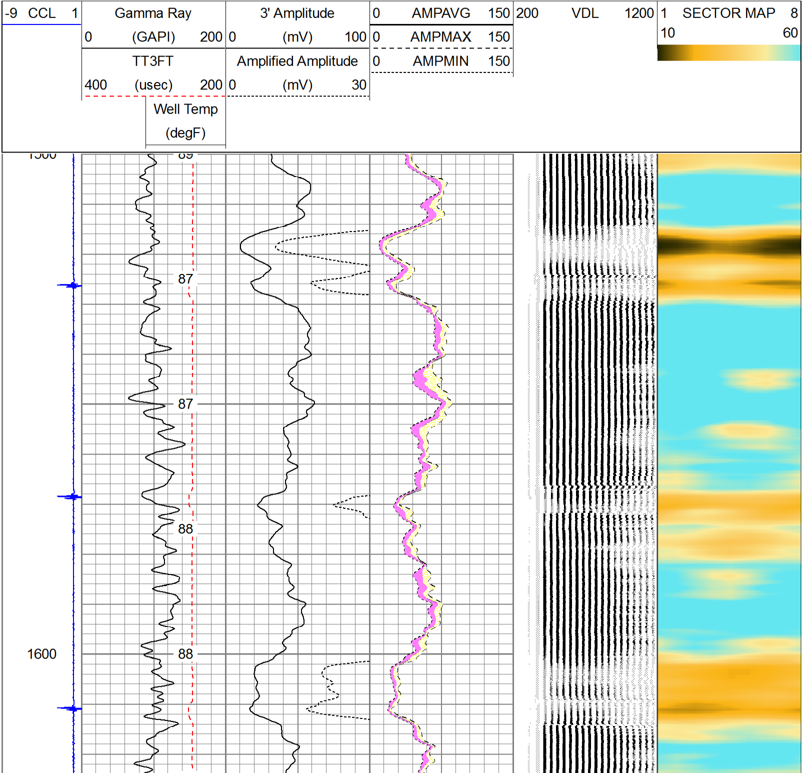
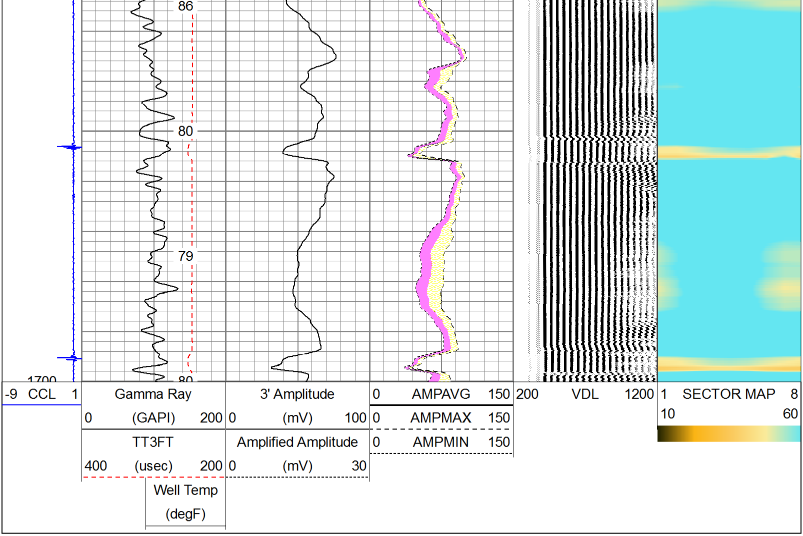
REPEAT SECTION

LOGGED WITH 0 PSI APPLIED AT SURFACE

Database File:	devon 38-8.db
Dataset Pathname:	pass2.2
Presentation Format:	scbl02
Dataset Creation:	Thu Feb 19 08:15:43 2015 by Calc 7.0 B1
Charted by:	Depth in Feet scaled 1:240





Calibration Report

Database File: devon 38-8.db
Dataset Pathname: pass1
Dataset Creation: Thu Feb 19 07:12:21 2015 by Log 7.0 B1

Gamma Ray Calibration Report

Serial Number: 110249
Tool Model: Probe
Performed: Tue Feb 03 05:05:05 2015

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.9400 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: 141167_4in
Tool Model: RBT-C3

Calibration Casing Diameter: 4.500 in
Calibration Depth: 540.558 ft

Master Calibration, performed Wed Feb 18 03:05:16 2015:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.005	0.521	1.000	81.196	139.000	2.000
CAL	-0.005	0.719				
5'	-0.003	0.468	1.000	81.196	170.181	1.592
SUM						
S1	-0.004	0.555	0.000	100.000	178.947	0.767
S2	-0.002	0.562	0.000	100.000	177.358	0.403
S3	-0.003	0.539	0.000	100.000	184.289	0.585
S4	-0.004	0.516	0.000	100.000	192.129	0.858
S5	-0.006	0.512	0.000	100.000	193.039	1.166
S6	-0.005	0.516	0.000	100.000	191.963	1.015
S7	-0.005	0.525	0.000	100.000	188.660	0.993
S8	-0.005	0.541	0.000	100.000	183.213	0.850

Internal Reference Calibration, performed Tue Feb 10 09:11:29 2015:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.005	0.719	1.000	0.000

Air Zero Calibration, performed Thu Feb 19 07:11:27 2015:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.017	0.000	-0.022
5'	0.023	0.000	-0.027
SUM			
S1	0.011	0.000	-0.016
S2	0.017	0.000	-0.019
S3	0.016	0.000	-0.020
S4	0.017	0.000	-0.021
S5	0.017	0.000	-0.023
S6	0.017	0.000	-0.023
S7	0.018	0.000	-0.023
S8	0.017	0.000	-0.022

Temperature Calibration Report

Serial Number:	141167_4in
Tool Model:	RBT-C3
Performed:	Thu Feb 12 11:54:41 2015

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

Gain:	0.86
Offset:	-5.00
Delta Spacing	1

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Company	KERR-MCGEE OIL & GAS ONSHORE		
Well	DEVON 38-8		
Field	WATTENBERG		
County	WELD		
State	CO	Country	USA