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Pioneer Energy Services

Cement Bond Log
With VDL / CCL
And Gamma Ray

Company Anadarko Petroleum Corporation
Well Louis A. Dodero Unit #1
Field Wattenberg
County Weld
State Colorado

Company	Anadarko Petroleum Corporation
Well	Louis A. Dodero Unit #1
Field	Wattenberg
County	Weld
State	Colorado

Location: API # : 05-123-07759

NWSW
SHL: 1347'FSL & 1109'FWL
SEC 33 TWP 3N RGE 67W

Other Services
None

Permanent Datum	Ground Level	Elevation	4850'
Log Measured From	Kelly Bushing	10' A.P.D.	
Drilling Measured From	Kelly Bushing		

Elevation
K.B. 4860'
D.F. 4859'
G.L. 4850'

Date	16-Apr-2014		
Run Number	One		
Depth Driller	7930'		
Depth Logger	6847'		
Bottom Logged Interval	6845'		
Top Log Interval	5438'		
Open Hole Size	7.875"		
Type Fluid	Water		
Density / Viscosity	8.34		
Max. Recorded Temp.	NR		
Estimated Cement Top	6086'		
Time Well Ready	11:30		
Time Logger on Bottom	12:00		
Equipment Number	96		
Location	Fort Morgan		
Recorded By	Bruce Miller		
Witnessed By	Mr. Rigo Macias		

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	8.625"	24#	Surface	445'
Prot. String				
Production String	4.5"	10.5#	Surface	7926'
Liner				
See Remarks	See Remarks			

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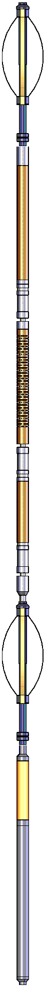
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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

Thank You For Using Pioneer Energy Services.

Log Was Run Using A 10' K.B. Measurment On Surface

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			PTS275	2.83	2.75	
WVF3FT	11.86		RBT-Probe (Base) Probe Radii Bond Tool with Digital Telemetry	8.92	2.75	90.00
WVFCAL	11.86					
WVFS1	11.86					
WVFS2	11.86					
WVFS3	11.86					
WVFS4	11.86					
WVFS5	11.86					
WVFS6	11.86					
WVFS7	11.86					
WVFS8	11.86					
WVF5FT	10.78					
			PTS275	2.83	2.75	
CCL	3.84					
TEMP	3.14					
GR	2.30		GCT-GRCCLTEMP (130608) Probe GCT	4.69	2.75	100.00

Dataset: anadarko_2-205411.db: field/well/run1/pass2
Total Length: 19.27 ft
Total Weight: 190.00 lb
O.D. 2.75 in

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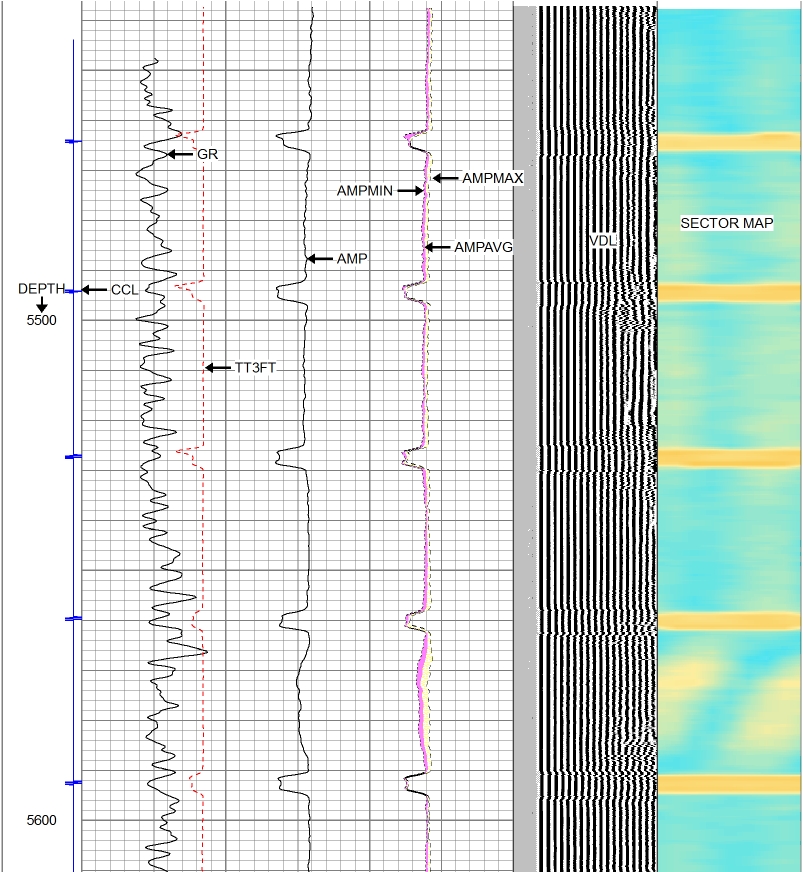
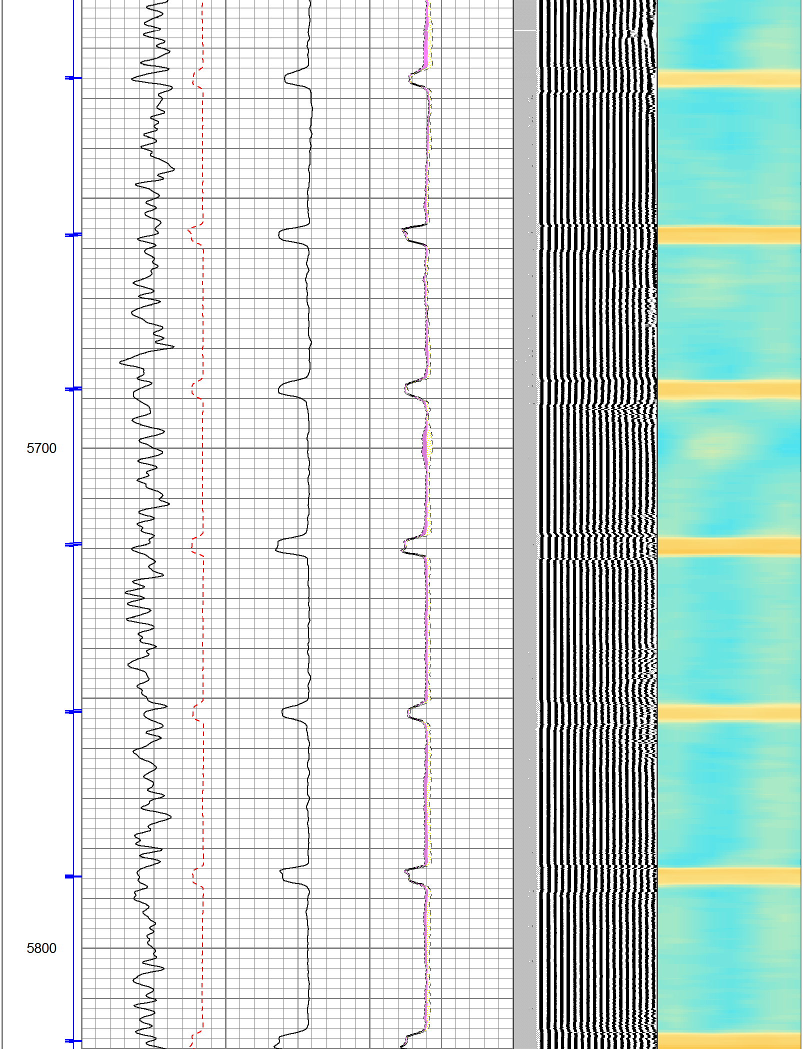
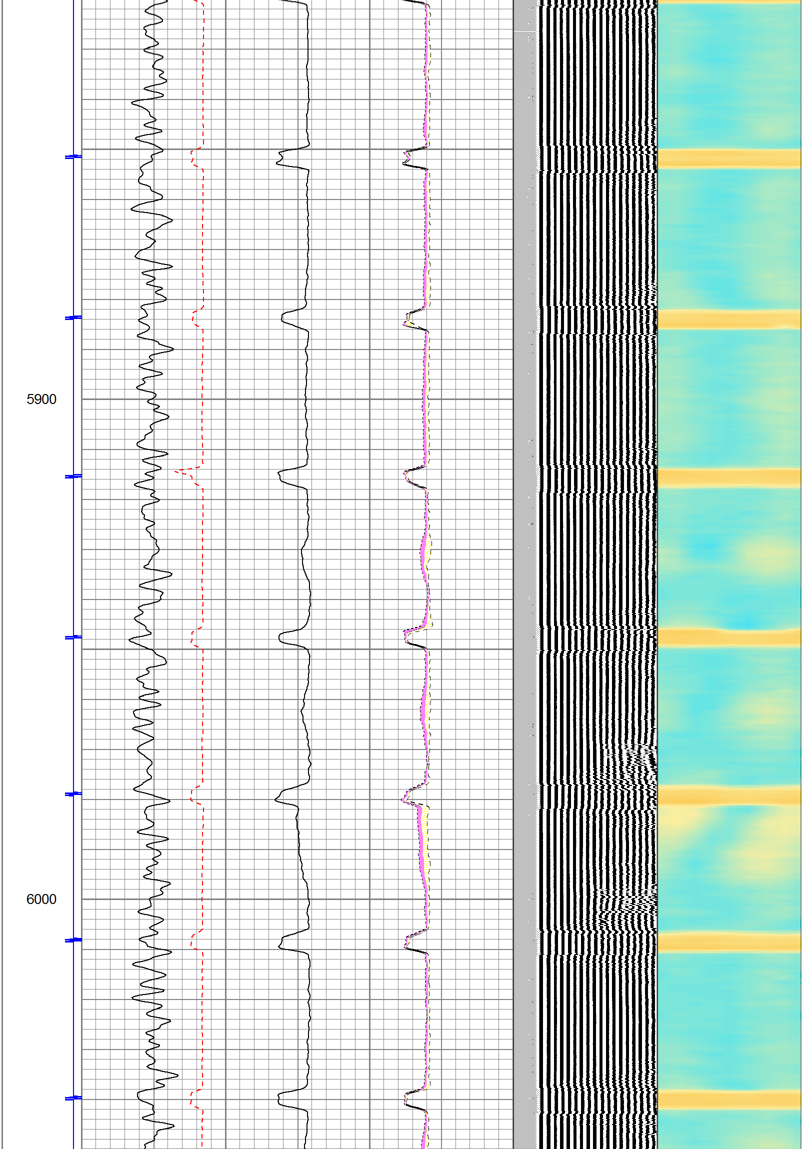
Main Pass

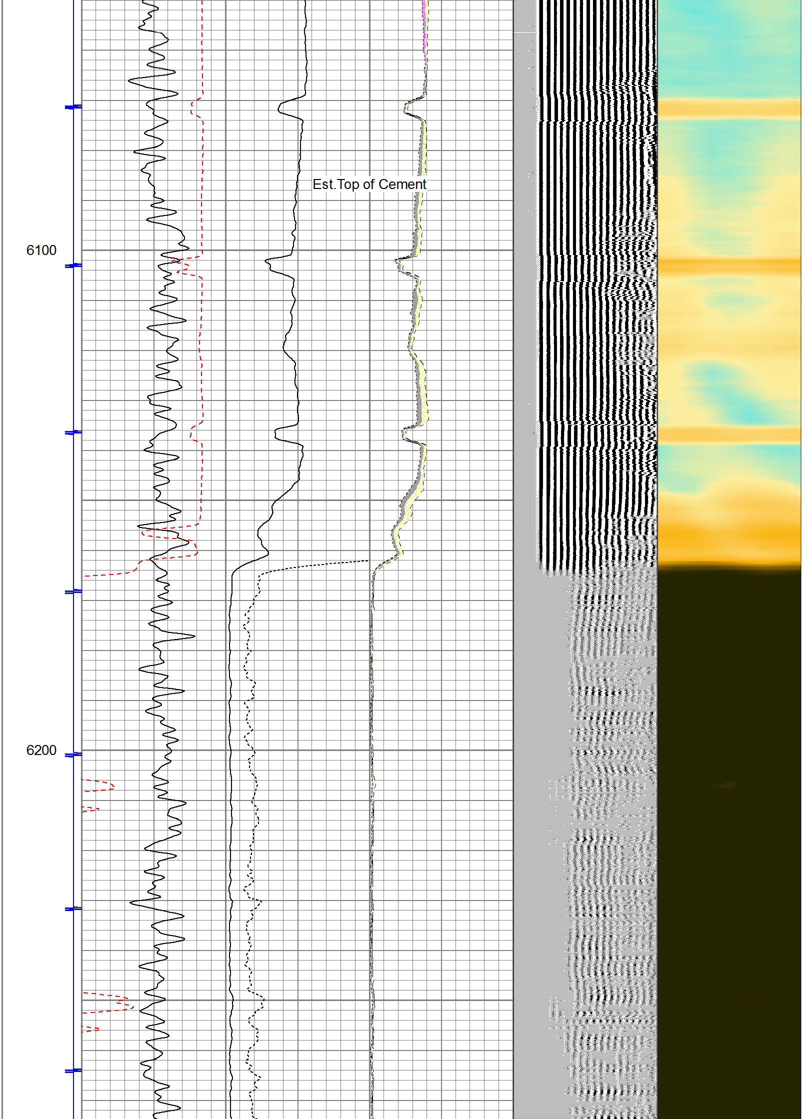
Database File: anadarko_2-205411.db
Dataset Pathname: pass2
Presentation Format: scbl02
Dataset Creation: Wed Apr 16 12:01:21 2014 by Log SCH 120430
Charted by: Depth in Feet scaled 1:240

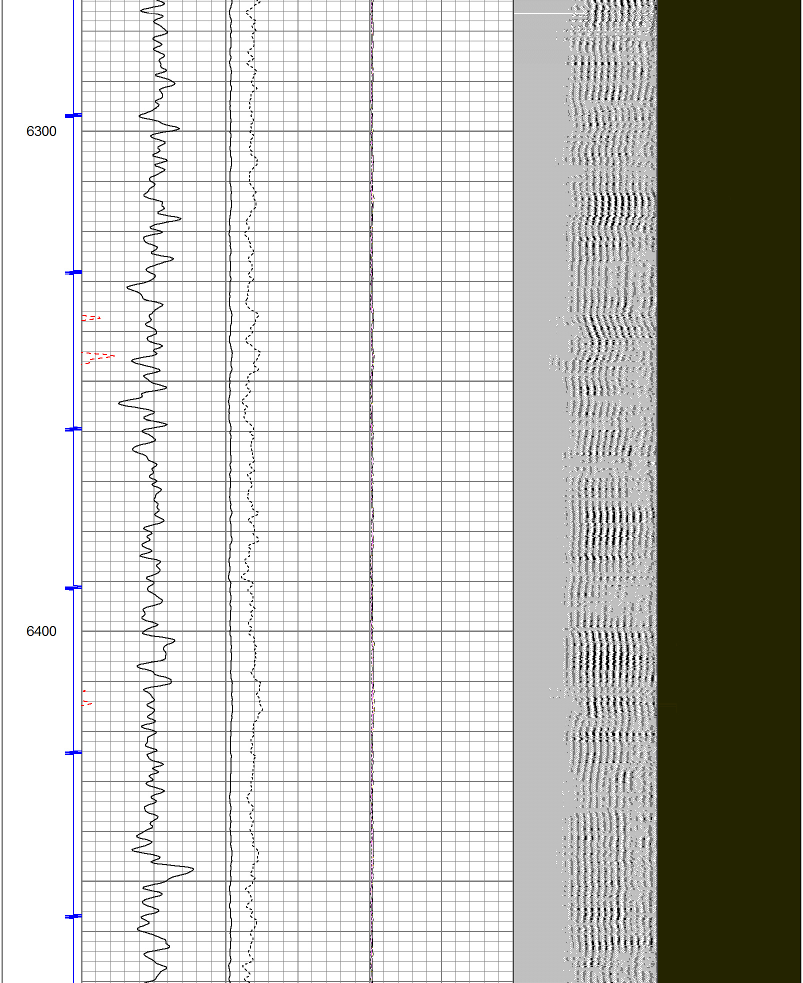
9 CCL -1	0 GR (GAPI) 200	0 AMP (mV) 100	0 AMPAVG 150	200 VDL 1200	1 SECTOR MAP 8
	TT3FT	0 AMPx5 (mV) 20	0 AMPMAX 150		5 95
	332 (usec) 232		0 AMPMIN 150		

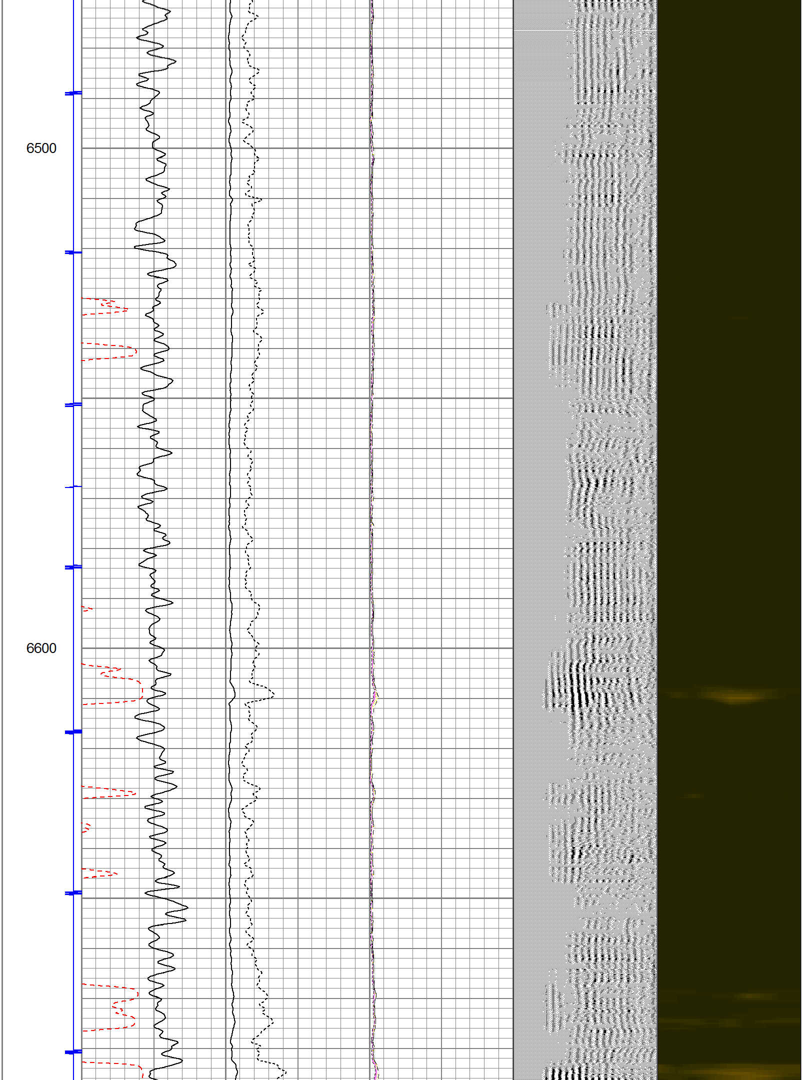


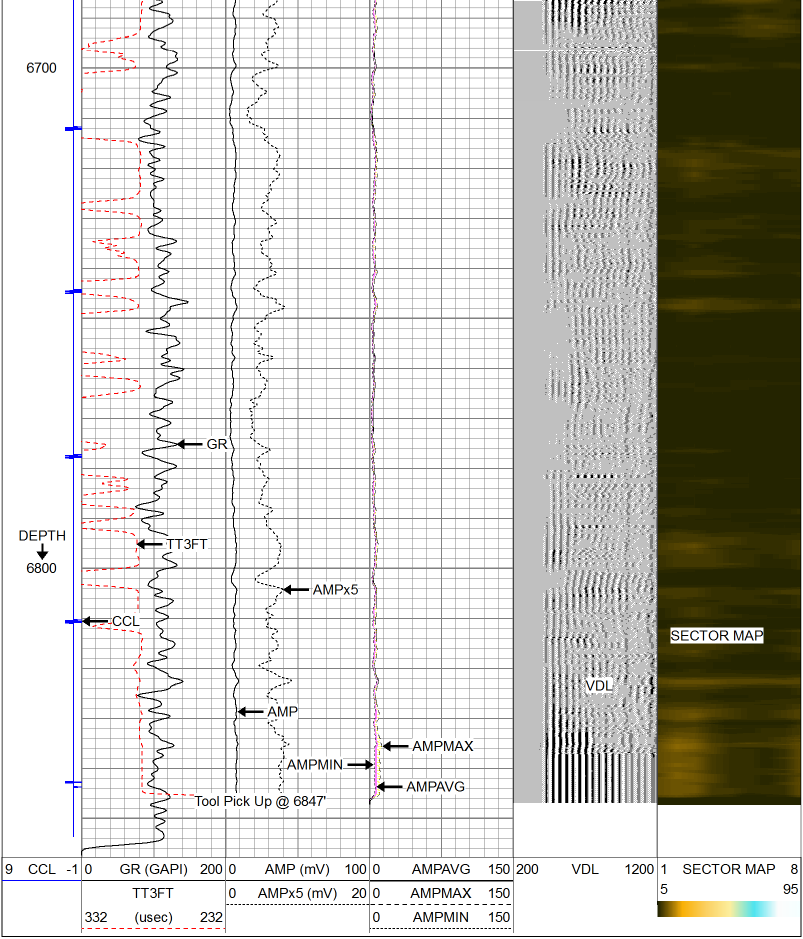












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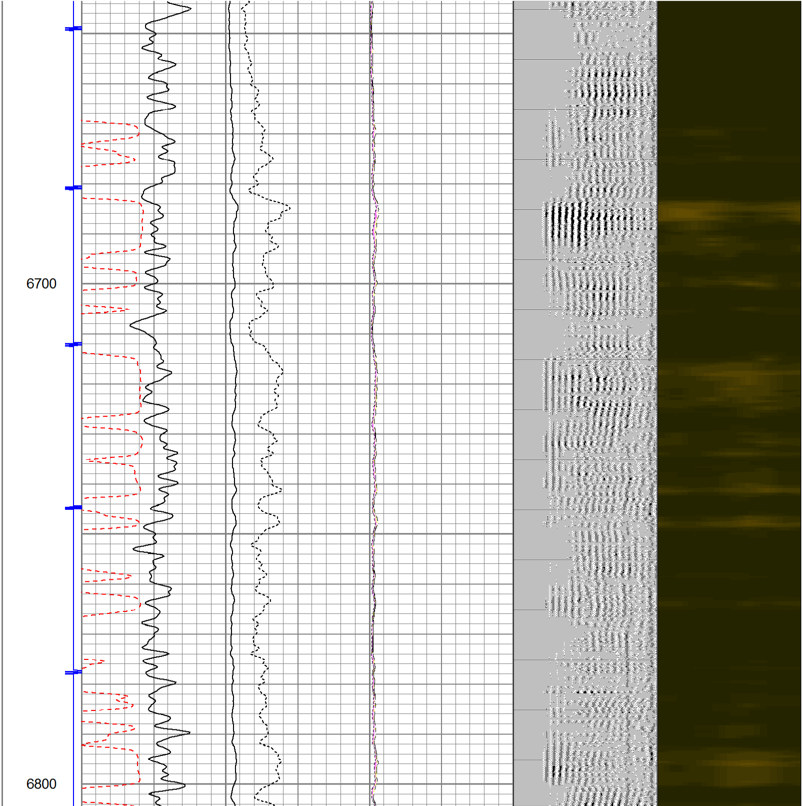
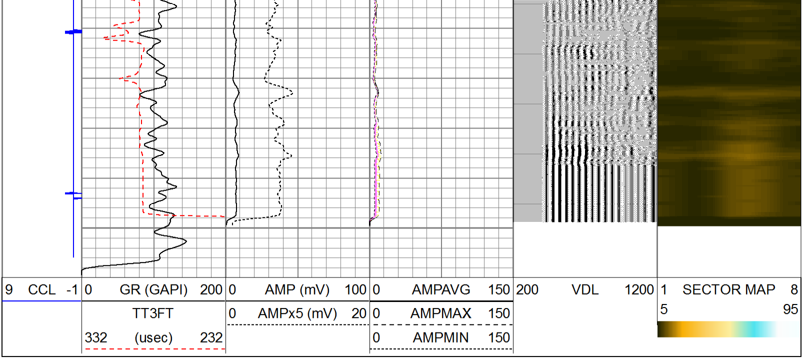
Repeat Pass

Database File:	anadarko_2-205411.db
Dataset Pathname:	pass1
Presentation Format:	scbl02
Dataset Creation:	Wed Apr 16 11:57:11 2014 by Log SCH 120430
Charted by:	Depth in Feet scaled 1:240

9 CCL -1	0 GR (GAPI) 200	0 AMP (mV) 100	0 AMPAVG 150	200 VDL 1200	1 SECTOR MAP 8
	TT3FT	0 AMPx5 (mV) 20	0 AMPMAX 150		5 95
	332 (usec) 232		0 AMPMIN 150		





Calibration Report

Database File: anadarko_2-205411.db
Dataset Pathname: pass2
Dataset Creation: Wed Apr 16 12:01:21 2014 by Log SCH 120430

Gamma Ray Calibration Report

Serial Number: 130608
Tool Model: GRCCLTEMP
Performed: Sat Apr 12 10:16:37 2014

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.8000 GAPI/cps

Temperature Calibration Report

Serial Number: 130608
Tool Model: GRCCLTEMP
Performed: Thu Aug 15 08:56:46 2013

	Reference	Reading
Low Reference:	100.00 degF	6509.65degF
High Reference:	350.00 degF	27350.70degF

Gain: 0.01
Offset: 21.91
Delta Spacing 1

Segmented Cement Bond Log Calibration Report

Serial Number: Base
Tool Model: Probe

Calibration Casing Diameter: 5.500 in
Calibration Depth: 5098.734 ft

Master Calibration, performed Wed Apr 16 11:36:24 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	0.960	1.000	81.196	83.551	1.000
CAL	0.000	1.018				
5'	0.000	0.786	1.000	81.196	102.085	1.000
SUM						
S1	0.000	0.922	0.000	95.000	103.052	0.000
S2	0.000	0.987	0.000	95.000	96.255	0.000
S3	0.000	1.009	0.000	95.000	94.155	0.000
S4	0.000	0.991	0.000	95.000	95.852	0.000
S5	0.000	0.940	0.000	95.000	101.050	0.000
S6	0.000	0.910	0.000	95.000	104.438	0.000
S7	0.000	0.894	0.000	95.000	106.207	0.000
S8	0.000	0.913	0.000	95.000	104.040	0.000

Internal Reference Calibration, performed Wed Aug 21 12:08:58 2013:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.000	1.018	1.000	0.000

Air Zero Calibration, performed Sat Apr 12 09:51:25 2014:

	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

Log Variables

Database:C:\Warrior\Data\anadarko_2-205411.db
Dataset: field/well/run1/pass2

Top - Bottom

PPT usec 0	CASEWGHT lb/ft 10.5	MAXAMPL mV 82	MINAMPL mV 1	MINATTN db/ft 0.8	CASEOD in 4.5	PERFS 0	TDEPTH ft 7500
BOTTEMP degF 230	BOREID in 7.875						

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Field	Wattenberg
County	Weld
State	Colorado