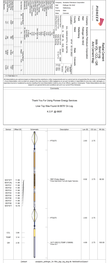

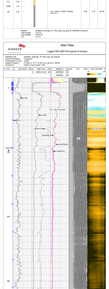

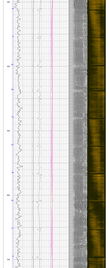

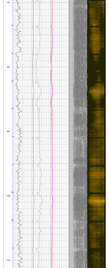

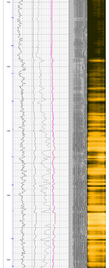

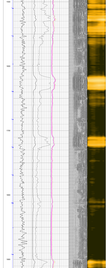

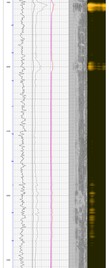

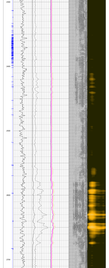

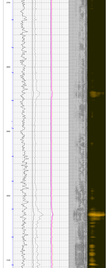

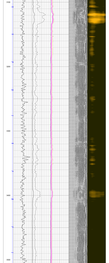

Figure 1 Mud Log Interval 1 (Surface to 1,000 ft MD)

Figure 2 Mud Log Interval 2 (1,000 to 2,000 ft MD)

Figure 3 Mud Log Interval 3 (2,000 to 3,000 ft MD)

Figure 4 Mud Log Interval 4 (3,000 to

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:	7.000	in
Calibration Depth:	627.051	ft

Master Calibration, performed Fri Mar 21 15:46:21 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.053	0.821	2.000	62.165	78.325	-2.161
CAL	0.979	1.019				
5'	0.021	0.707	2.000	62.165	87.690	0.136
SUM						
S1	0.064	0.810	5.000	95.000	120.704	-2.738
S2	0.033	0.847	5.000	95.000	110.567	1.315
S3	0.018	0.843	5.000	95.000	109.103	2.989
S4	0.011	0.818	5.000	95.000	111.508	3.806
S5	0.016	0.802	5.000	95.000	114.568	3.171
S6	0.017	0.791	5.000	95.000	116.298	3.012
S7	0.033	0.786	5.000	95.000	119.516	1.080
S8	0.030	0.813	5.000	95.000	114.916	1.586

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	0.979	1.019	1.000	0.000

Air Zero Calibration, performed Tue Mar 04 11:15:55 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_pettinger_3n-18hz_jbgr_log_plug.db
Dataset: field/well/run2/pass1

Top - 6682.00 ft

CASEWGHT lb/ft	MAXAMPL mV	MINAMPL mV	CASEOD in	BOTTEMP degF	BOREID in
26	62	2	7	215	8.75

6682.00 ft - Bottom

PPT usec	CASEWGHT lb/ft	MAXAMPL mV	MINAMPL mV	MINATTN db/ft	CASEOD in	PERFS	TDEPTH ft
0	11.6	81	1	0.08	4.5	0	0

BOTTEMP degF	BOREID in
225	6.25

PIONEER
Pioneer Energy Services

Company	Anadarko Petroleum Corporation
Well	Pettinger 4C-18HZ
Field	Wattenberg
County	Weld
State	Colorado