RMWS ROCKY MOUNTAIN WIRELINE SERVICE

CEMENT BOND LOG
GAMMA RAY \ CCL
TEMPERATURE

Company	BILL BARRETT CORPORATION
Well	CB - TG - LAND 12D - 20 - 692
Field	MAMM CREEK
County	GARFIELD
State	COLORADO
API #:	05-045-19754

Location: SHL: 0720' FNL & 2555' FEL
BHL: 1401' FNL & 0660' FWL

SEC 20 TWP 6S RGE 92W

Other Services: 3.75" GAUGE RING

Permanent Datum	G.L.	Elevation	5530'
Log Measured From	K.B.	Ft Above PD	23'
Drilling Measured From	K.B.		

Elevation: K.B. 5553' D.F. 5552' G.L. 5530'

Date	07 - 08 - 2011
Run Number	ONE
Depth Driller	8118'
Present Depth Driller	8004'
Depth Logger	8004'
Bottom Logged Interval	8003'
Top Log Interval	4250'
Fluid Level	SURFACE
Type Fluid	WATER
Max. Recorded Temp.	216.2° F
Estimated Cement Top	4900'
Equipment Number	208
Location	GRAND JCT.
Recorded By	HARRIS
Witnessed By	MR LAFFERTY

Run Number	Borehole Record Bit	From	To	Casing Record Size	Weight	From	To
ONE	8.750"	860'	4963'	9.625"	36 #	SURFACE	860'
TWO	7.875"	4963'	8118'	4.5"	11.6#	SURFACE	8118'

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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.

WARRIOR 7.0 SOFTWARE - Comments

NOTE: LOG WAS DEPTH CORRELATED USING WEATHERFORD OPENHOLE DATED 5-23-2011
SHORT JOINTS: 5040' - 5070' AND 6654' - 6682'
MAIN PASS 5" = 100'
TEMP. PASS 2' = 100'
CSG PSI = STATIC

Calibration Report

Database File: C:\Warrior\Data\BBC\12-D\070811_bbc_land_12D.db
Dataset Pathname: TEMP/pass1
Dataset Creation: Fri Jul 08 17:17:49 2011

Temperature Calibration Report

Serial Number: 217894
Tool Model: 016
Performed: Fri Oct 24 13:23:59 2008

Point #	Reading		Reference	
1	13298.00	cps	75.97	degF
2	17844.00	cps	104.32	degF
3	29434.00	cps	175.71	degF
4	41028.00	cps	246.70	degF
5	52674.00	cps	317.75	degF
6	58555.00	cps	353.61	degF
7		cps		degF
8		cps		degF
9		cps		degF
10		cps		degF

Gamma Ray Calibration Report

Type / Serial: 020 / 217692

	Counts/Sec.	Gain	Offset	Jig	Units
SHOP CALIBRATION	Wed Apr 06 13:50:00 2011				
Background	0.0				cps
Calibrator	1.0				cps
		1.1000			GAPI/cps
PRIMARY VERIFICATION					
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI
BEFORE SURVEY VERIFICATION					
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI
AFTER SURVEY VERIFICATION					
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

Segmented Cement Bond Log Calibration Report

Serial Number: 1123
Tool Model: 004

Calibration Casing Diameter: 4.500 in
Calibration Depth: 218.229 ft

Master Calibration, performed Fri Jul 08 13:59:52 2011:

	Raw (v) Zero	Cal	Calibrated (mv) Zero	Cal	Results Gain	Offset
3FT	0.004	1.033	1.000	81.196	77.892	0.714
5FT	-0.001	0.946	1.000	81.196	84.723	1.063
S1	0.004	1.045	0.000	100.000	96.092	-0.407
S2	0.004	1.038	0.000	100.000	96.710	-0.348
S3	0.007	0.989	0.000	100.000	101.874	-0.735
S4	0.005	1.006	0.000	100.000	99.905	-0.488
S5	0.006	1.020	0.000	100.000	98.656	-0.633
S6	0.006	1.028	0.000	100.000	97.877	-0.595
S7	0.007	1.016	0.000	100.000	99.155	-0.725
S8	0.007	1.024	0.000	100.000	98.340	-0.714

Calibration Report

Serial Number: 1123
Tool Model: 004
Performed:

	Reference (degF)	Reading ()
Low:	0.000	0.000
High:	1.000	1.000
	Gain = 1.000	Offset= 0.000

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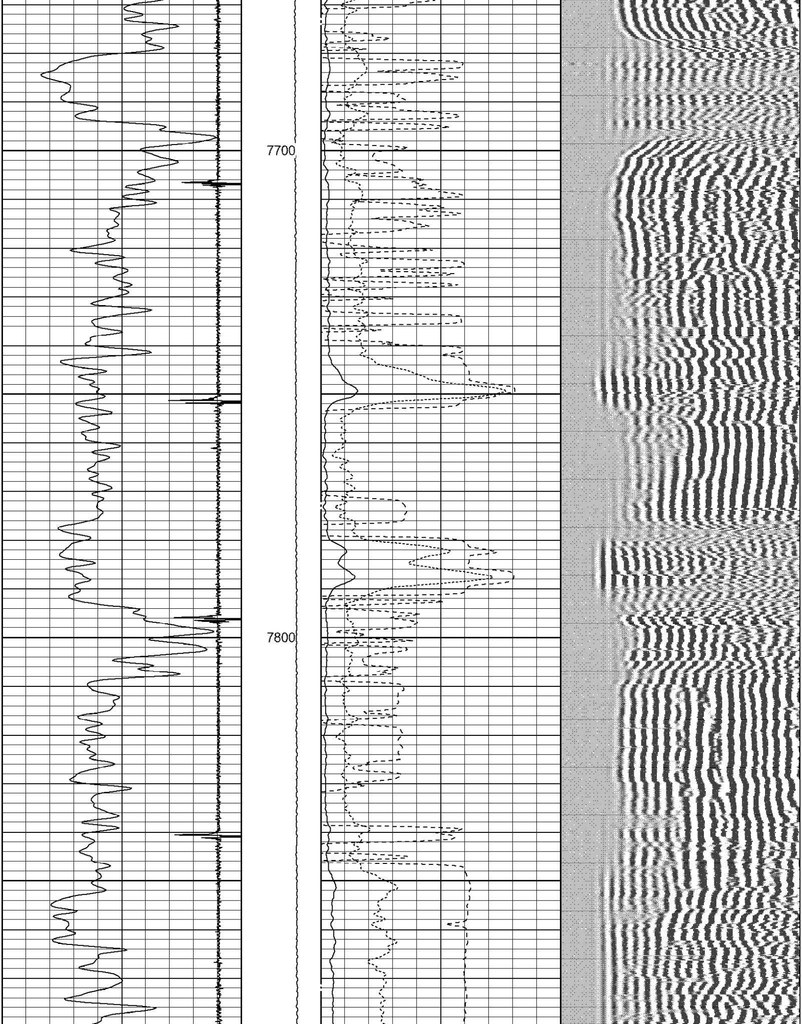
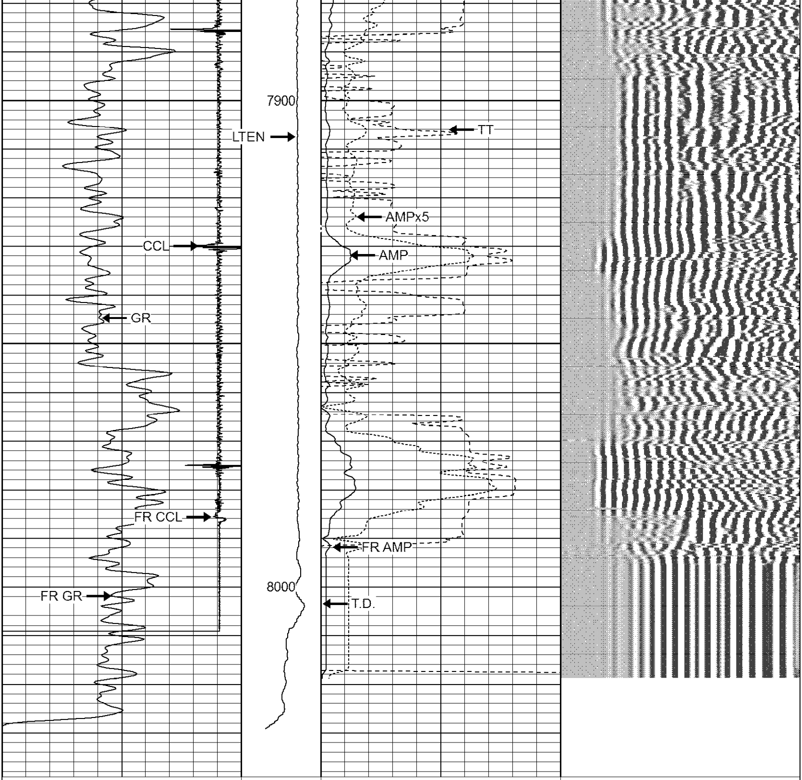
MAIN PASS

Database File: c:\warrior\data\bbc\12-d\070811_bbc_land_12d.db
Dataset Pathname: MAIN/pass1
Presentation Format: rmws_dsc
Dataset Creation: Fri Jul 08 17:15:44 2011
Charted by: Depth in Feet scaled 1:240

14000 Collar Locator 19600	LTEN	0 AMP AMPLITUDE (mV) 20	200 VDL 1200
0 Gamma Ray (GAPI) 150	0 (lb) 3000	0 AMPLITUDE (mV) 100	
		380 TRAVEL TIME (usec) 180	





14000 Collar Locator 19600	LTEN	0 AMP AMPLITUDE (mV) 20	200 VDL 1200
0 Gamma Ray (GAPI) 150	0 (lb) 3000	0 AMPLITUDE (mV) 100	
		380 TRAVEL TIME (usec) 180	

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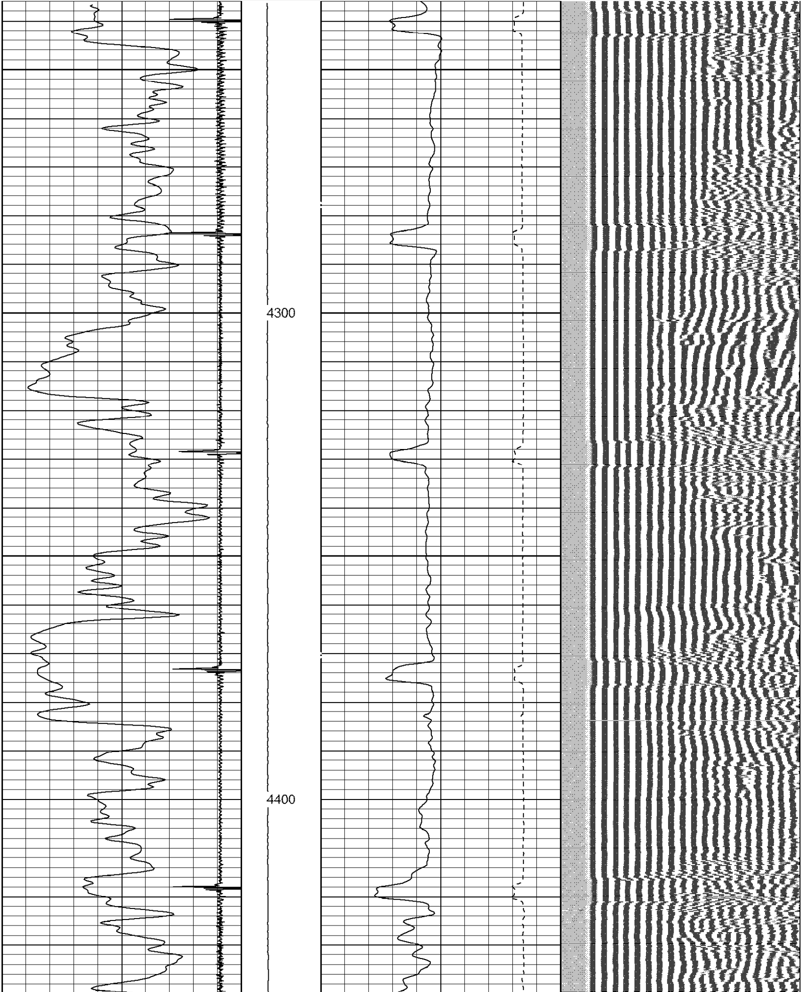
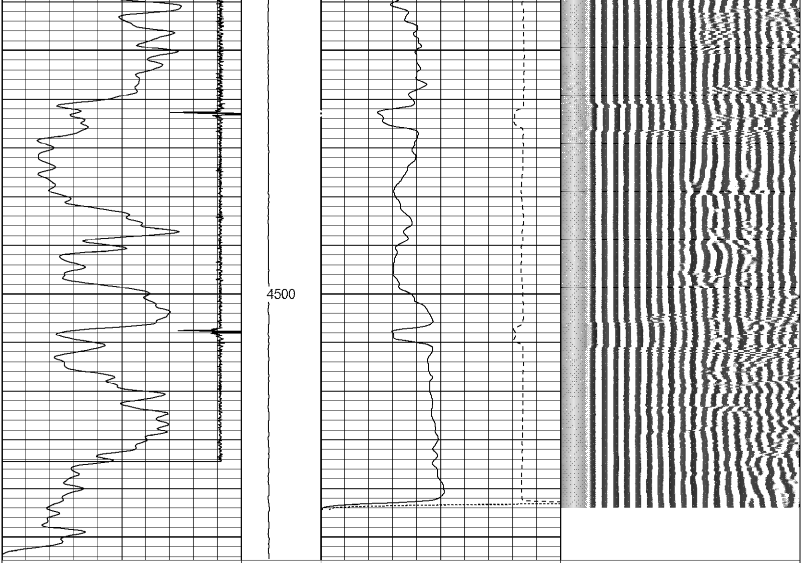
REPEAT PASS

Database File:	c:\warrior\data\bbc\12-d\070811_bbc_land_12d.db
Dataset Pathname:	FREE/pass4
Presentation Format:	rmws_dsc
Dataset Creation:	Fri Jul 08 15:13:16 2011 by Log Std Casedhole 10121
Charted by:	Depth in Feet scaled 1:240

12500 CCL 19700	LTEN	0 AMPx5 (mV) 20	200 VDL 1200
0 GR (GAPI) 150	0 (lb) 3000	0 AMP (mV) 100	
		380 TT (usec) 180	





12500 CCL 19700	LTEN	0 AMPx5 (mV) 20	200 VDL 1200
0 GR (GAPI) 150	0 (lb)3000	0 AMP (mV) 100	
		380 TT (usec) 180	

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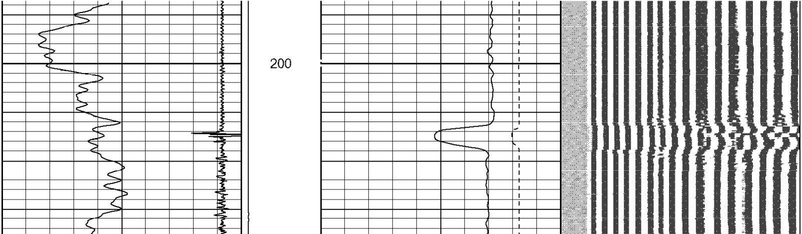
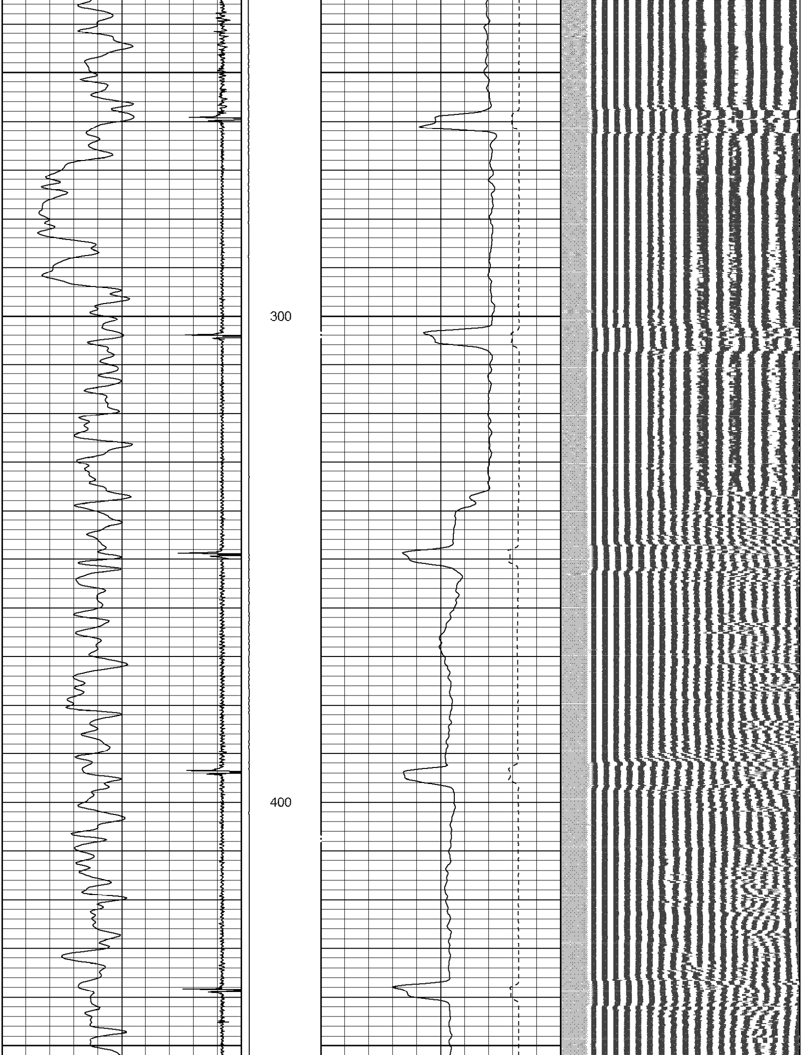
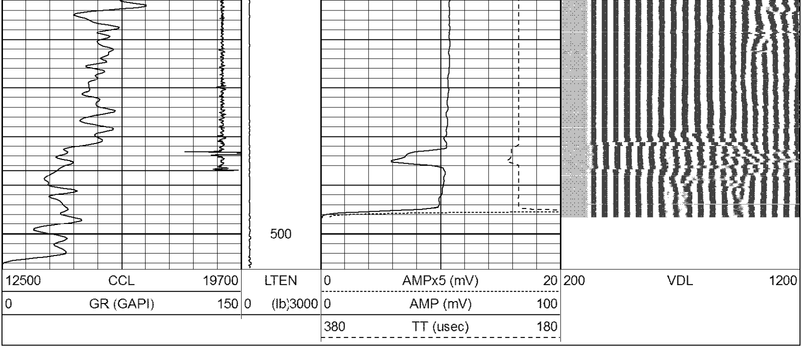
FREE PIPE PASS

Database File: c:\warrior\data\bbc\12-d\070811_bbc_land_12d.db
Dataset Pathname: FREE/pass1
Presentation Format: rmws_dsc
Dataset Creation: Fri Jul 08 14:03:17 2011 by Log Std Casedhole 10121
Charted by: Depth in Feet scaled 1:240

12500 CCL 19700	LTEN	0 AMPx5 (mV) 20	200 VDL 1200
0 GR (GAPI) 150	0 (lb)3000	0 AMP (mV) 100	
		380 TT (usec) 180	



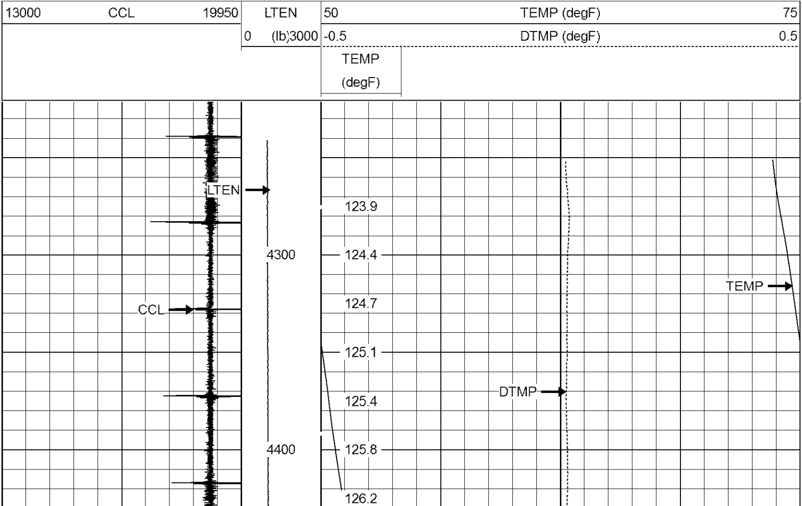


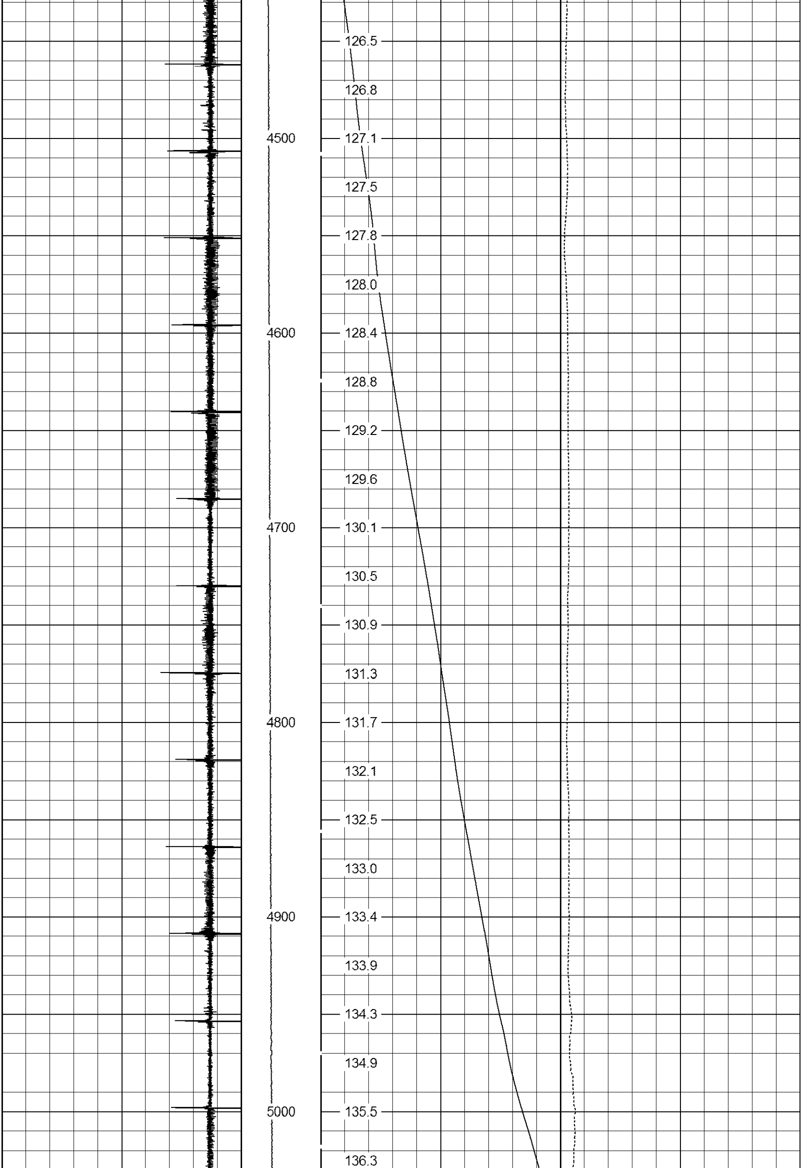


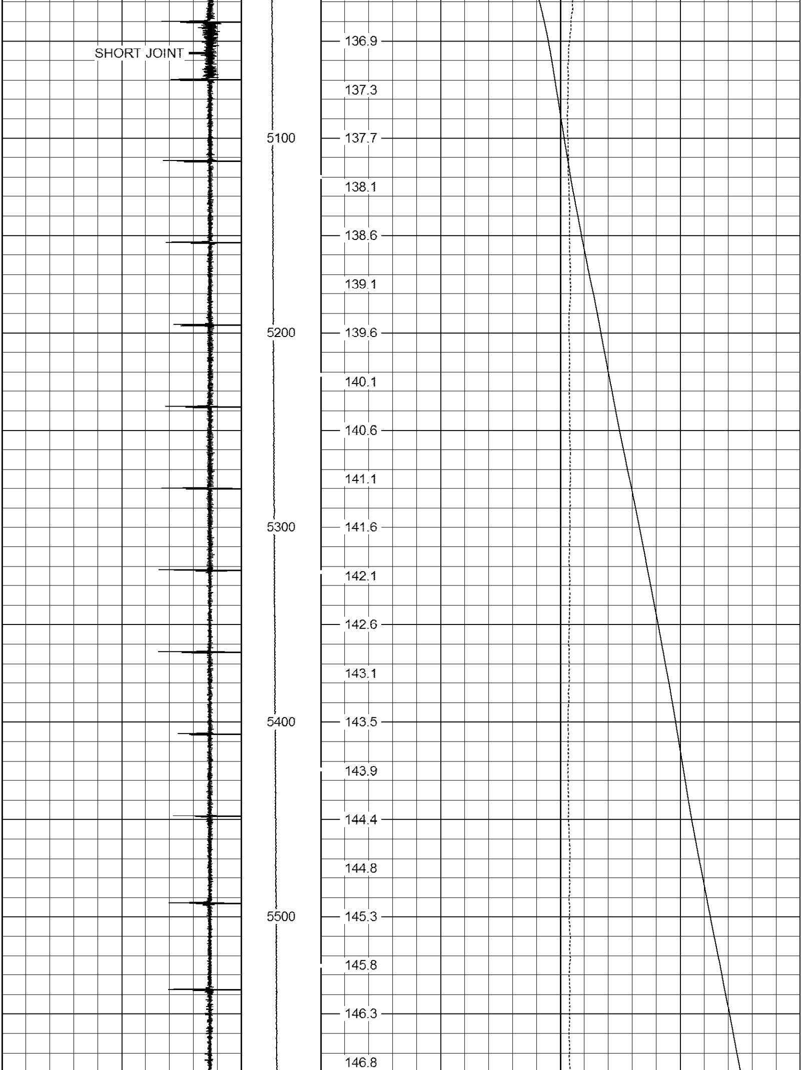
ROCKY MOUNTAIN WIRELINE SERVICE

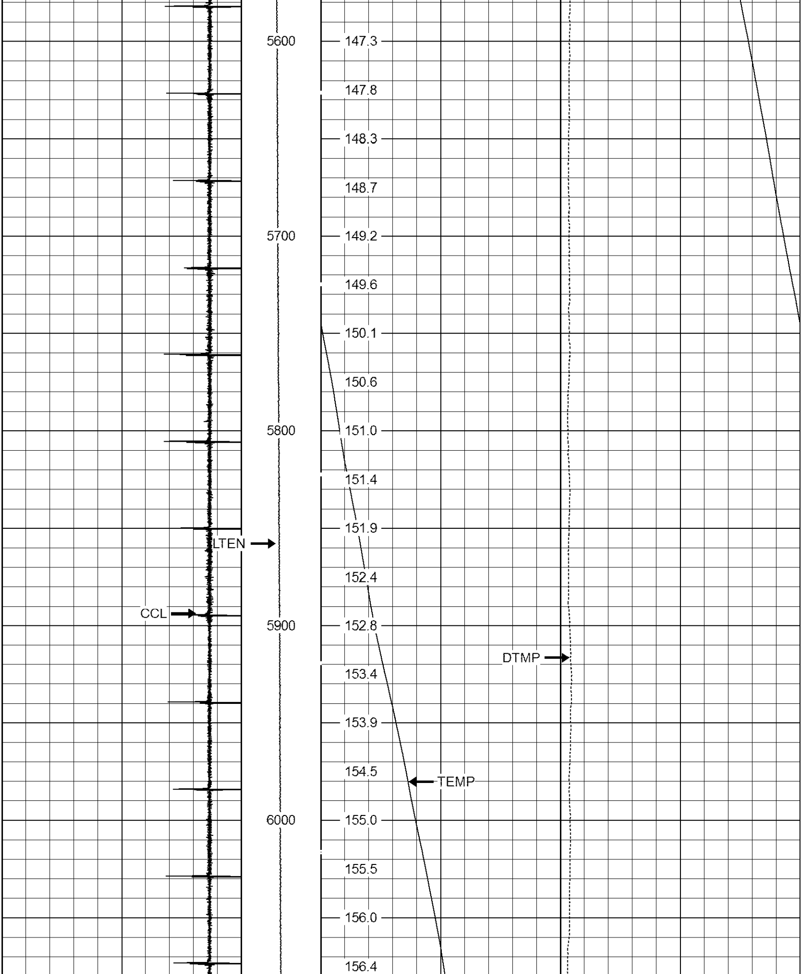
TEMP PASS

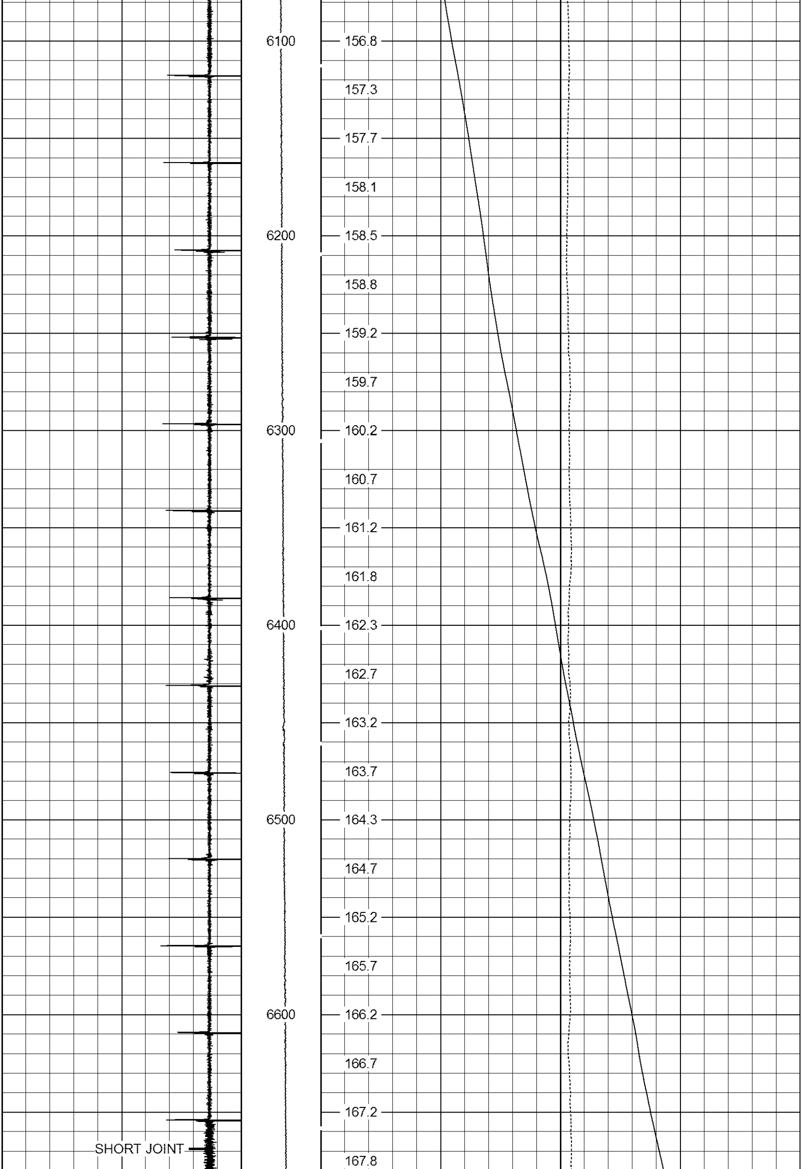
Database File:	c:\warrior\data\bbc\12-d\070811_bbc_land_12d.db
Dataset Pathname:	TEMP/pass1
Presentation Format:	rmws_tem
Dataset Creation:	Fri Jul 08 17:17:49 2011
Charted by:	Depth in Feet scaled 1:600

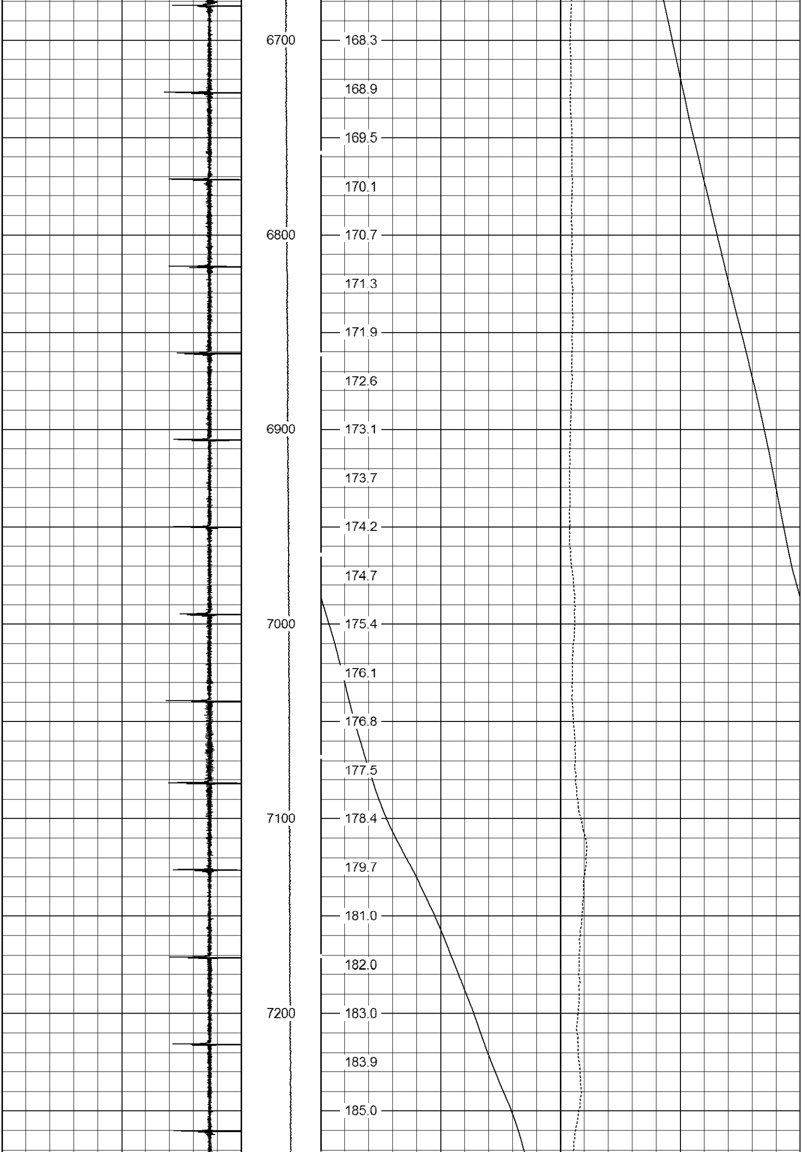


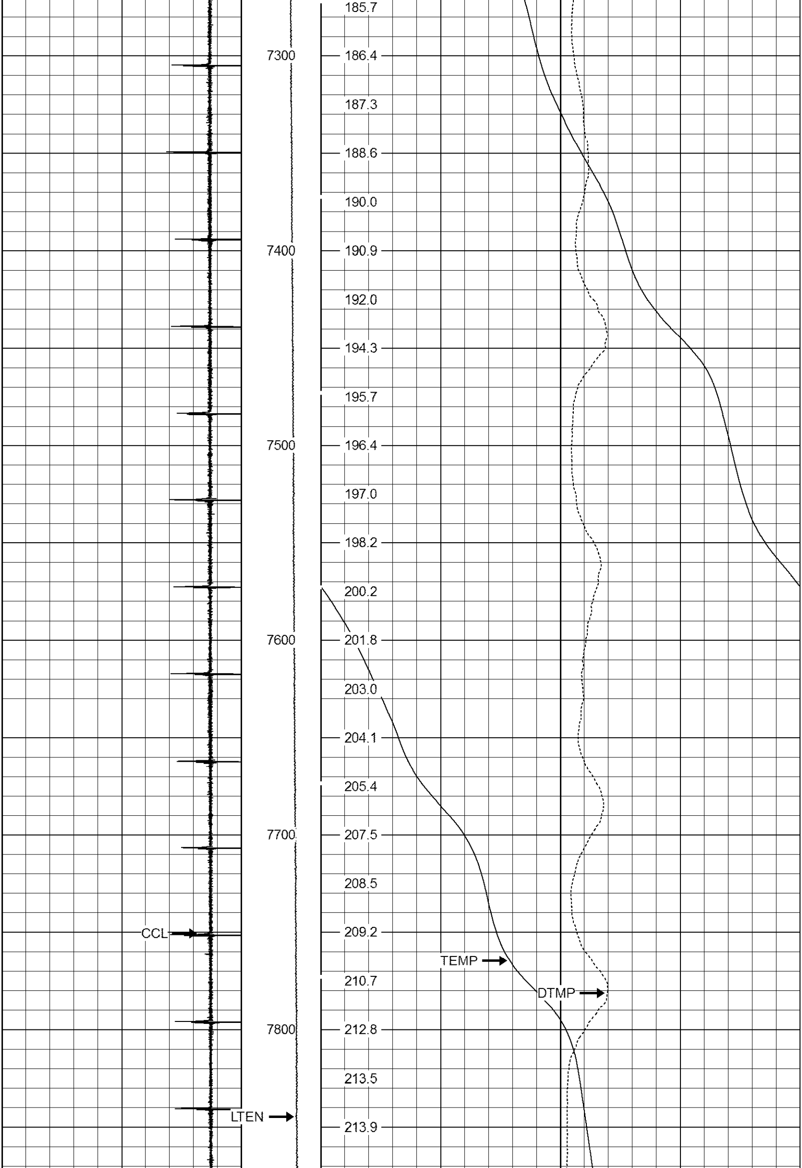


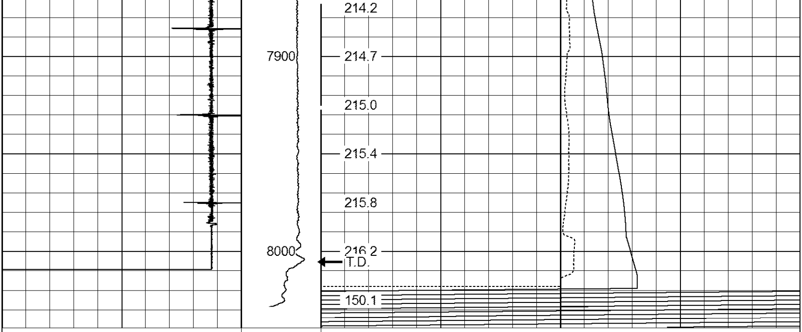




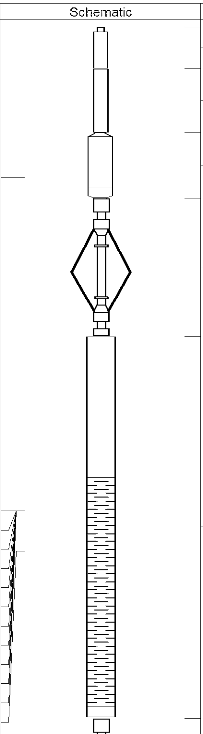


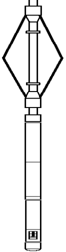






13000 CCL 19950	LTEN	50 TEMP (degF) 75
	0 (lb) 3000	-0.5 DTMP (degF) 0.5
		TEMP (degF)

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			CHD-AES (000001) Cable Head	1.04	1.69	2.00
			XTU-002 (216415) Crossover Ultrawire Toolbus To Ultralink	1.58	1.69	6.50
CCL	20.01		CCL-028 (1037) CCL UW 3 1/8" SONDEX	1.61	3.13	36.00
			SNDX 6 Arm PRC 022 W/ GO ADAPTORS	3.42	2.38	22.00
WVF3FT WVFS1 WVFS2 WVFS3 WVFS4 WVFS5 WVFS6 WVFS7 WVFS8 CBLTEMP CBLROT WVF5FT	11.74 11.74 11.74 11.74 11.74 11.74 11.74 11.74 11.74 11.74 11.74 10.74		RBT-004 (1123) Radial Bond Tool (UW 3 1/8)	9.47	3.13	140.00

			SNDX 6 Arm PRC 022 W/ GO ADAPTORS	3.42	2.38	22.00
GR	1.76		PGR-020 (217692) Production Gamma Ray	1.93	1.69	9.50
TEMP	0.37		PRT-016 (217894) Platinum Resistance Thermometer	1.04	1.69	6.00
TSTAMP	0.00		BUL-006 (212965) Bullnose Terminator	0.22	1.69	1.20
ITEMPX	0.00					
HVOLTX	0.00					

Dataset:	070811_bbc_land_12D.db: field/well/TEMP/pass1
Total Length:	23.73 ft
Total Weight:	245.20 lb
O.D.	3.13 in

RMWS

ROCKY MOUNTAIN WIRELINE SERVIC

Company	BILL BARRETT CORPORATION
Well	CB - TG - LAND 12D - 20 - 692
Field	MAMM CREEK
County	GARFIELD
State	COLORADO