RMWS
ROCKY MOUNTAIN WIRELINE SERVICE

CEMENT BOND LOG
GAMMA RAY / CCL
TEMPERATURE

Company	BILL BARRETT CORPORATION		
Well	GGU DALEY 21D - 30 - 691		
Field	GIBSON GULCH		
County	GARFIELD	State	COLORADO
Location:	API #: 05-045-19578	Other Services	
	SHL: 0236' FSL & 2009' FWL BHL: 0185' FNL & 1960' FWL	GAUGE RING 3.75"	
	SEC 19 TWP 6S RGE 91W		
Permanent Datum	G.L.	Elevation	5824'
Log Measured From	K.B.	Ft Above PD	23'
Drilling Measured From	K.B.	Elevation	K.B. 5847' D.F. 5846' G.L. 5824'

Date	06 - 24 - 2011
Run Number	ONE
Depth Driller	7310'
Present Depth Driller	7214'
Depth Logger	7214'
Bottom Logged Interval	7214'
Top Log Interval	1900'
Fluid Level	SURFACE
Type Fluid	WATER
Max. Recorded Temp.	207.1°F
Estimated Cement Top	2500'
Equipment Number	209
Location	GRAND JCT.
Recorded By	HARRIS
Witnessed By	MR. BEAUXIS

Borehole Record				Casing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	8.75"	811'	5390'	9.625"	36#	SURFACE	811'
TWO	7.875"	5390'	7310'	4.5"	11.6#	SURFACE	7390'

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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: THIS LOG WAS DEPTH CORRELATED TO THE WEATHERFORD OH LOG DATED 4-07-11
SHORT JOINTS AT 4220' - 4241' AND 5849' - 5870'
MAIN PASS 5" = 100'
TEMP PASS 2" = 100'
CSG PSI = STATIC

Calibration Report

Database File: C:\Warrior\Data\BBC_DALEY\21D\062411_bbc_daley_21d.db
Dataset Pathname: pass5
Dataset Creation: Fri Jun 24 21:54:37 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

Serial Number:	AJD00166	
Tool Model:	020	
Performed:	Thu Jul 30 19:58:24 2009	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.2000	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	1122	
Tool Model:	004	
Calibration Casing Diameter:	4.500	in
Calibration Depth:	106.192	ft

Master Calibration, performed Fri Jun 24 19:21:03 2011:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3FT	0.000	1.071	0.000	81.196	75.817	0.000
5FT	0.000	0.920	0.000	81.196	88.234	0.000
S1	0.000	1.101	0.000	100.000	90.867	0.000
S2	0.000	1.121	0.000	100.000	89.200	0.000
S3	0.000	1.060	0.000	100.000	94.379	0.000
S4	0.000	1.051	0.000	100.000	95.149	0.000
S5	0.000	1.057	0.000	100.000	94.567	0.000
S6	0.000	1.072	0.000	100.000	93.310	0.000
S7	0.000	1.096	0.000	100.000	91.244	0.000
S8	0.000	1.095	0.000	100.000	91.342	0.000

Calibration Report

Serial Number: 1122
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_daley\21d\062411_bbc_daley_21d.db
Dataset Pathname: pass4
Presentation Format: rmws_dsc
Dataset Creation: Fri Jun 24 21:08:46 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) 2000	0	AMPLITUDE (mV)	100			
				380	TRAVEL TIME (usec)	180			

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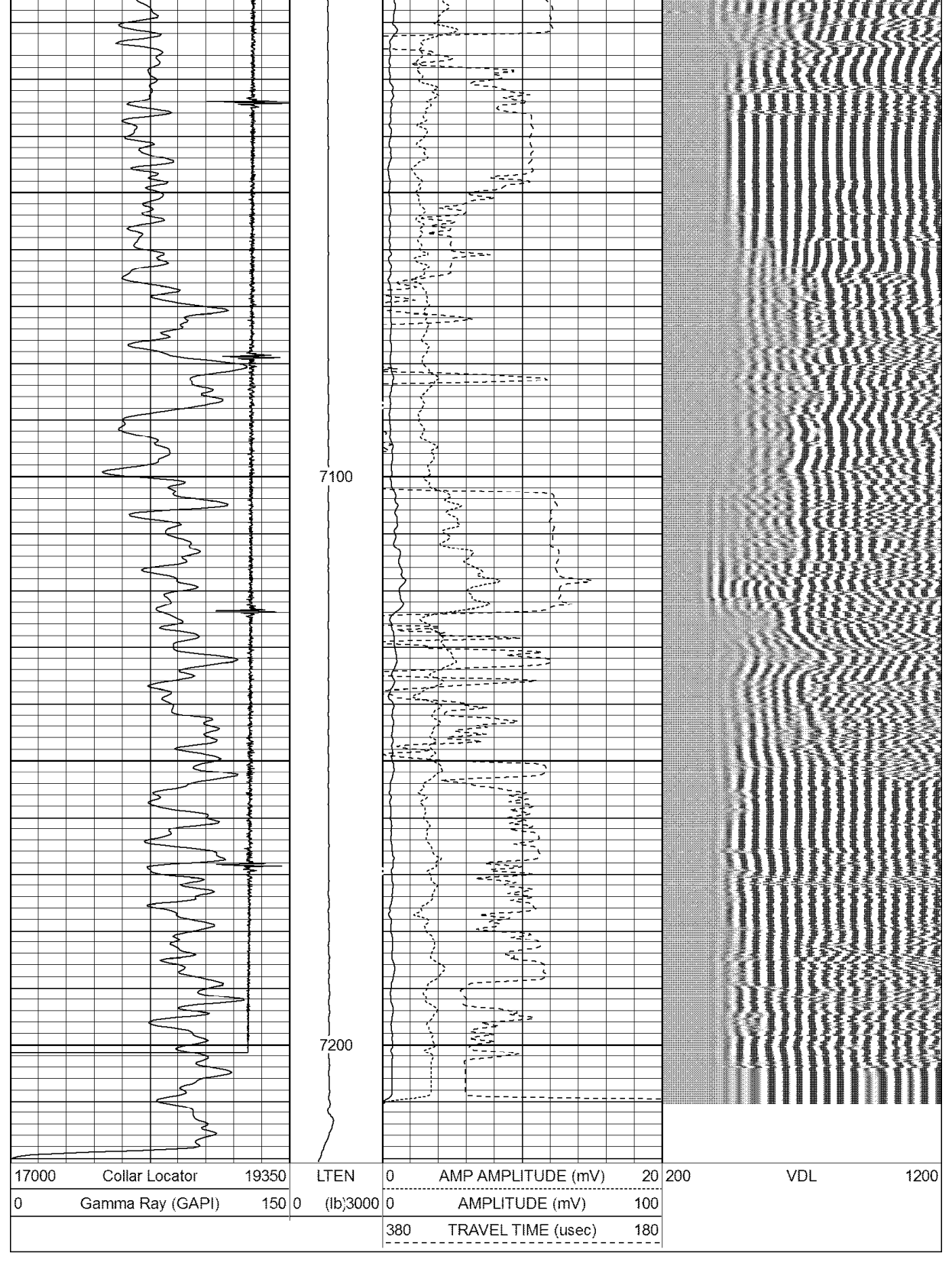
REPEAT PASS

Database File: c:\warrior\data\bbc_daley\21d\062411_bbc_daley_21d.db
Dataset Pathname: pass2
Presentation Format: rmws_dsc
Dataset Creation: Fri Jun 24 19:50:32 2011 by Log Std Casedhole 10121
Charted by: Depth in Feet scaled 1:240

17000	Collar Locator	19350	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			



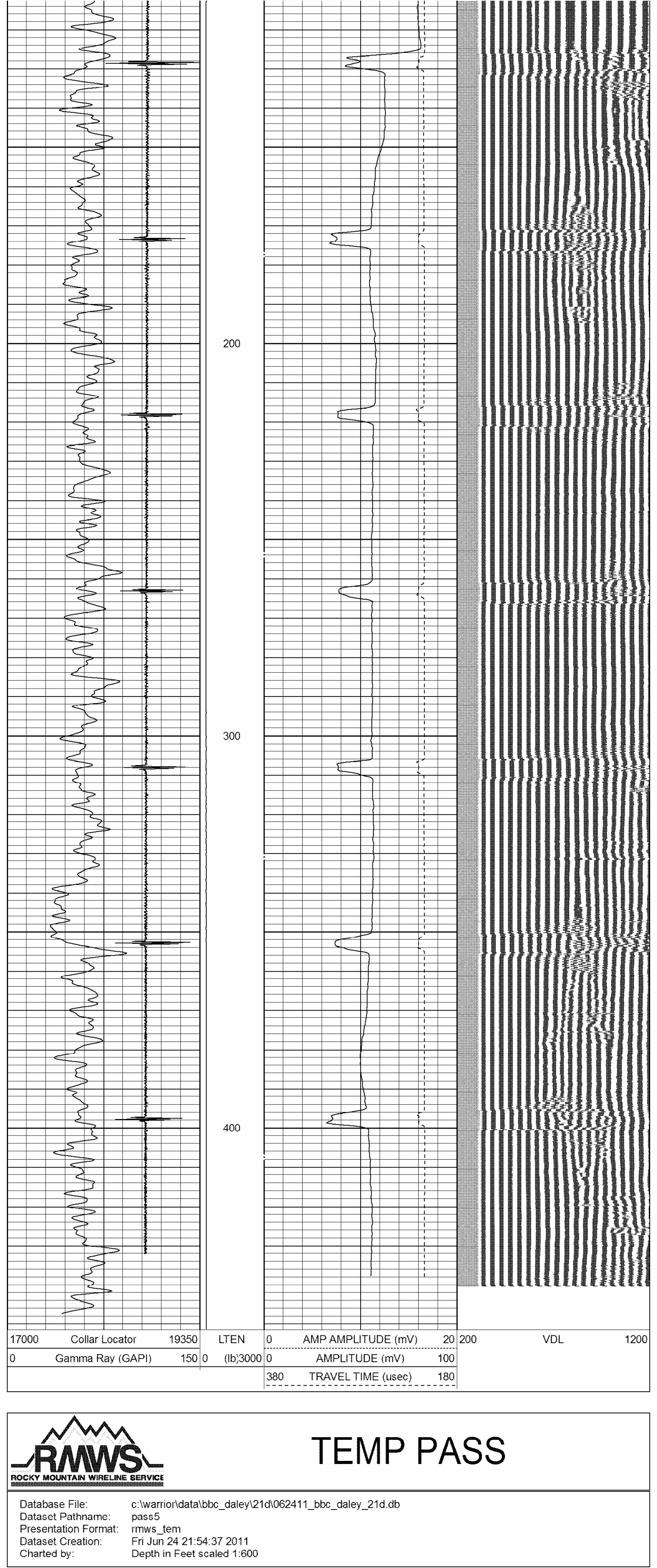
17000	Collar Locator	19350	LTEN	0	AMP AMPLITUDE (mV)	20	200	VDL	1200
0	Gamma Ray (GAPI)	150	0 (lb) 3000	0	AMPLITUDE (mV)	100			
				380	TRAVEL TIME (usec)	180			

ROCKY MOUNTAIN WIRELINE SERVICE

FREE PIPE PASS

Database File: c:\warrior\data\bbc_daley\21d\062411_bbc_daley_21d.db
Dataset Pathname: pass1
Presentation Format: rmws_dsc
Dataset Creation: Fri Jun 24 19:24:49 2011 by Log Std Casedhole 10121
Charted by: Depth in Feet scaled 1:240

17000	Collar Locator	19350	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			



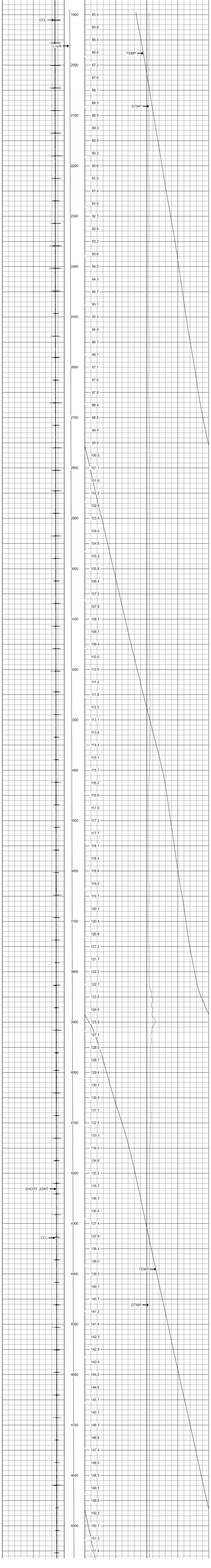
17000	Collar Locator	19350	LTEN	0	AMP AMPLITUDE (mV)	20	200	VDL	1200
0	Gamma Ray (GAPI)	150	0 (lb) 3000	0	AMPLITUDE (mV)	100			
				380	TRAVEL TIME (usec)	180			

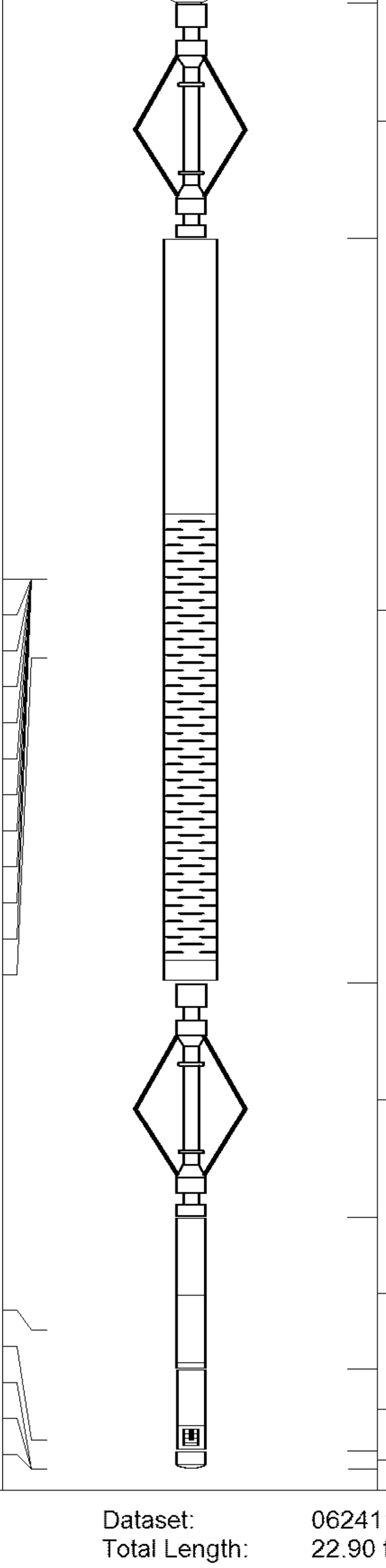
ROCKY MOUNTAIN WIRELINE SERVICE

TEMP PASS

Database File: c:\warrior\data\bbc_daley\21d\062411_bbc_daley_21d.db
Dataset Pathname: pass5
Presentation Format: rmws_tem
Dataset Creation: Fri Jun 24 21:54:37 2011
Charted by: Depth in Feet scaled 1:600

13000	CCL	19950	LTEN	50	TEMP (degF)	75
			0 (lb) 2000	-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 (217217) Crossover Ultrawire Toolbus To Ultralink	1.58	1.69	6.50
CCL	19.17		CCL-028 (1037) CCL UW 3 1/8" SONDEX	1.61	3.13	36.00
			PRC-022 (215771) (6 ARM 2 3/8" ROLLER CENTRALIZER SONDEX)	3.00	2.38	21.40
WVF3FT WVFS1 WVFS2 WVFS3 WVFS4 WVFS5 WVFS6 WVFS7 WVFS8 CBLTEMP CBLROT WVF5FT	11.32 11.32 11.32 11.32 11.32 11.32 11.32 11.32 11.32 11.32 11.32 10.32		RBT-004 (1122) Radial Bond Tool (UW 3 1/8)	9.47	3.13	140.00
			PRC-022 (215770) (6 ARM 2 3/8" ROLLER CENTRALIZER SONDEX)	3.00	2.38	21.40
GR	1.76		PGR-020 (AJD00166) 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 ITEMPX HVOLTX	0.00 0.00 0.00		BUL-006 (212965) Bullnose Terminator	0.22	1.69	1.20

Dataset: 062411_bbc_daley_21d.db: field/well/run1/pass5
Total Length: 22.90 ft
Total Weight: 244.00 lb
O.D. 3.13 in

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Company	BILL BARRETT CORPORATION
Well	GGU DALEY 21D - 30 - 691
Field	GIBISON GULCH
County	GARFIELD
State	COLORADO