ROCKY MOUNTAIN WIRELINE SERVICE

CEMENT BOND LOG
GAMMA RAY / CCL
TEMPERATURE

Company	BILL BARRETT CORPORATION		
Well	MILLER 33A - 6 - 791		
Field	MAMM CREEK		
County	GARFIELD	State	COLORADO
Location:	API #: 05-045-18664 SHL: 0056' FNL & 2401' FEL BHL: 1230' FNL & 2050' FEL	Other Services	3.75" GAUGE RING
	SEC 6 TWP 7S RGE 91W		
Permanent Datum	G.L.	Elevation 6266'	Elevation K.B. 6289' D.F. 6288' G.L. 6266'
Log Measured From	K.B.	Ft Above PD 23'	
Drilling Measured From	K.B.		

Date	02-11-2011
Run Number	ONE
Depth Driller	7210'
Present Depth Driller	7114'
Depth Logger	7113'
Bottom Logged Interval	7113'
Top Log Interval	800'
Fluid Level	SURFACE
Type Fluid	WATER
Max. Recorded Temp.	204° F
Estimated Cement Top	1500'
Equipment Number	216
Location	GRAND JCT.
Recorded By	HARRIS
Witnessed By	MR. LAFFERTY

	Borehole Record			Casing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	8.75"	748'	4810'	9.625"	36#	SURFACE	748'
TWO	7.88"	4810'	7210'	4.5"	11.6#	SURFACE	7210'

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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 1-26-2011
SHORT JOINTS ARE AT 4686' TO 4708' AND 5854' TO 5874'
MAIN PASS 5" = 100'
TEMP PASS 2" = 100'
CSG = STATIC

Calibration Report

Database File: E:\Miller Federal\021111_bbc_miller_33a.db
Dataset Pathname: FREE/pass2
Dataset Creation: Sat Feb 12 16:42:42 2011 by Calc Std Casedhole 07122

Temperature Calibration Report

Serial Number: 216611
Tool Model: 016
Performed: Fri Oct 24 13:21:19 2008

Point #	Reading		Reference	
1	11136.00	cps	63.28	degF
2	17489.00	cps	104.70	degF
3	28778.00	cps	175.60	degF
4	40401.00	cps	250.00	degF
5	51742.00	cps	321.75	degF
6	57178.00	cps	355.95	degF
7		cps		degF
8		cps		degF
9		cps		degF
10		cps		degF

Gamma Ray Calibration Report

Serial Number: 217692
Tool Model: 020
Performed: Thu Feb 10 15:21:54 2011

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 1.1000 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: 1122
Tool Model: 004

Calibration Casing Diameter: 4.500 in
Calibration Depth: 107.883 ft

Master Calibration, performed Sat Feb 12 16:42:23 2011:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3FT	0.000	0.956	0.000	81.196	84.913	-0.005
5FT	0.000	1.021	0.000	81.196	79.566	-0.006
S1	0.000	1.057	0.000	100.000	94.570	-0.006
S2	0.000	1.177	0.000	100.000	84.953	-0.006
S3	0.000	1.101	0.000	100.000	90.827	-0.006
S4	0.000	1.005	0.000	100.000	99.468	-0.006
S5	0.000	0.927	0.000	100.000	107.857	-0.006
S6	0.000	0.888	0.000	100.000	112.592	-0.007
S7	0.000	0.898	0.000	100.000	111.309	-0.007
S8	0.000	0.955	0.000	100.000	104.698	-0.006

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

ROCKY MOUNTAIN WIRELINE SERVICE

MAIN PASS

Database File: e:\miller federal\021111_bbc_miller_33a.db
Dataset Pathname: MAIN/pass2
Presentation Format: rmws_dsc
Dataset Creation: Sat Feb 12 16:55:02 2011
Charted by: Depth in Feet scaled 1:240

12000 CCL 19900	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

MAIN PASS

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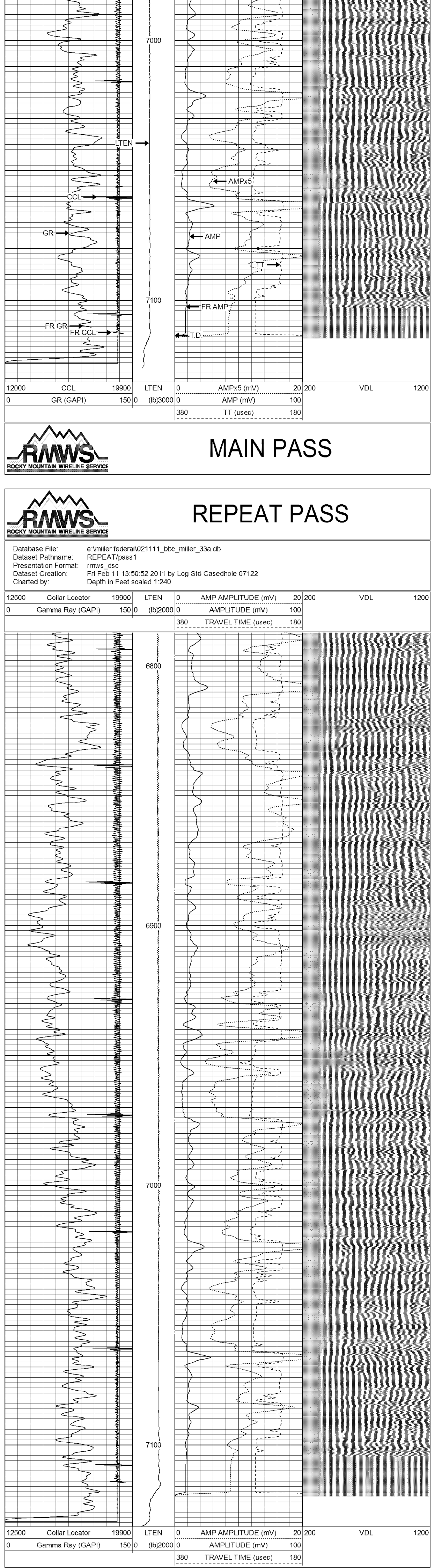
REPEAT PASS

Database File: e:\miller federal\021111_bbc_miller_33a.db
Dataset Pathname: REPEAT/pass1
Presentation Format: rmws_dsc
Dataset Creation: Fri Feb 11 13:50:52 2011 by Log Std Casedhole 07122
Charted by: Depth in Feet scaled 1:240

12500 Collar Locator 19900	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	



12500 Collar Locator 19900	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	

ROCKY MOUNTAIN WIRELINE SERVICE

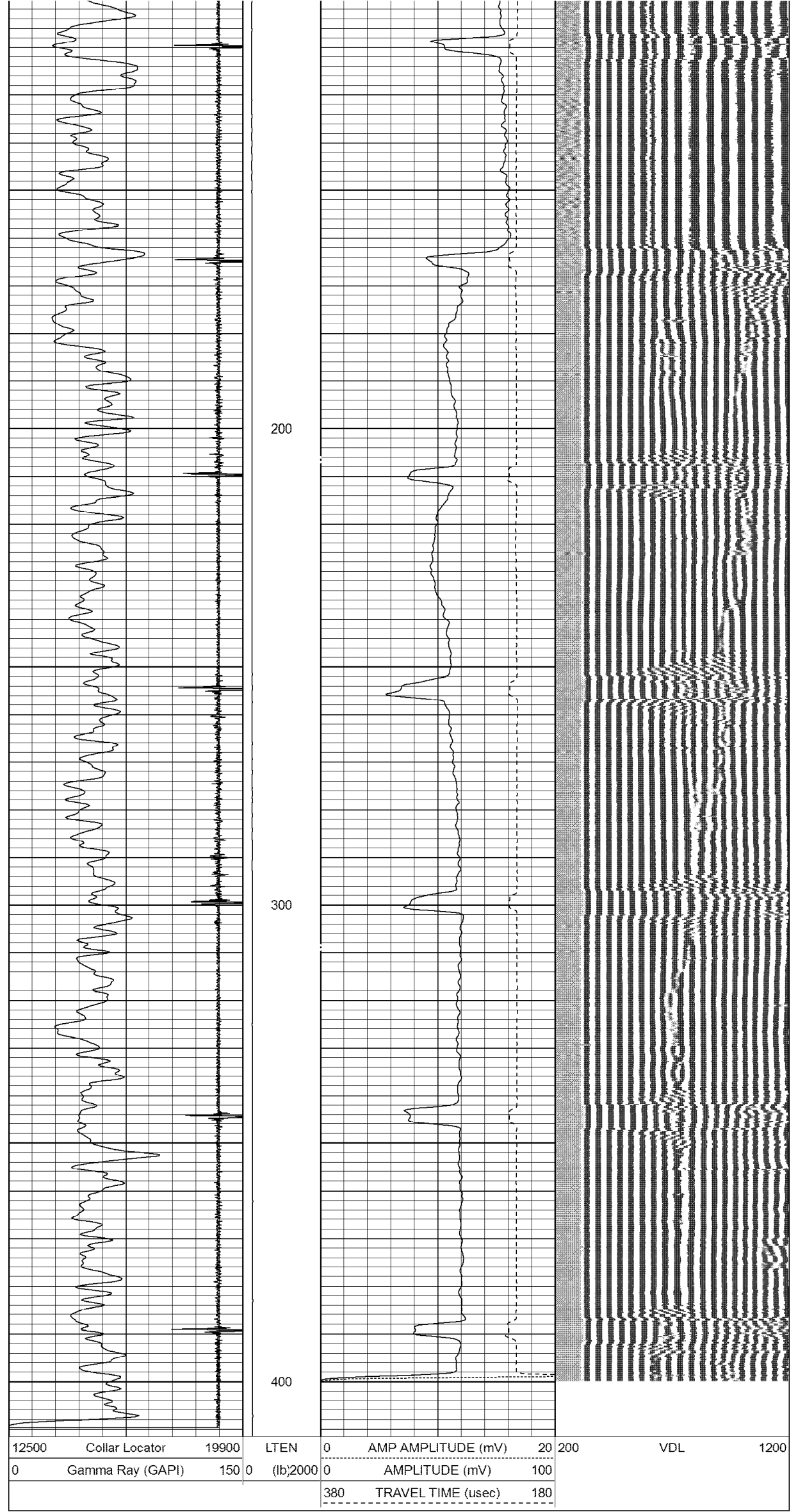
REPEAT PASS

ROCKY MOUNTAIN WIRELINE SERVICE

FREE PIPE PASS

Database File: e:\miller federal\021111_bbc_miller_33a.db
Dataset Pathname: FREE/pass2
Presentation Format: rmws_dsc
Dataset Creation: Sat Feb 12 16:42:42 2011 by Calc Std Casedhole 07122
Charted by: Depth in Feet scaled 1:240

12500 Collar Locator 19900	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	



12500 Collar Locator 19900	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	

ROCKY MOUNTAIN WIRELINE SERVICE

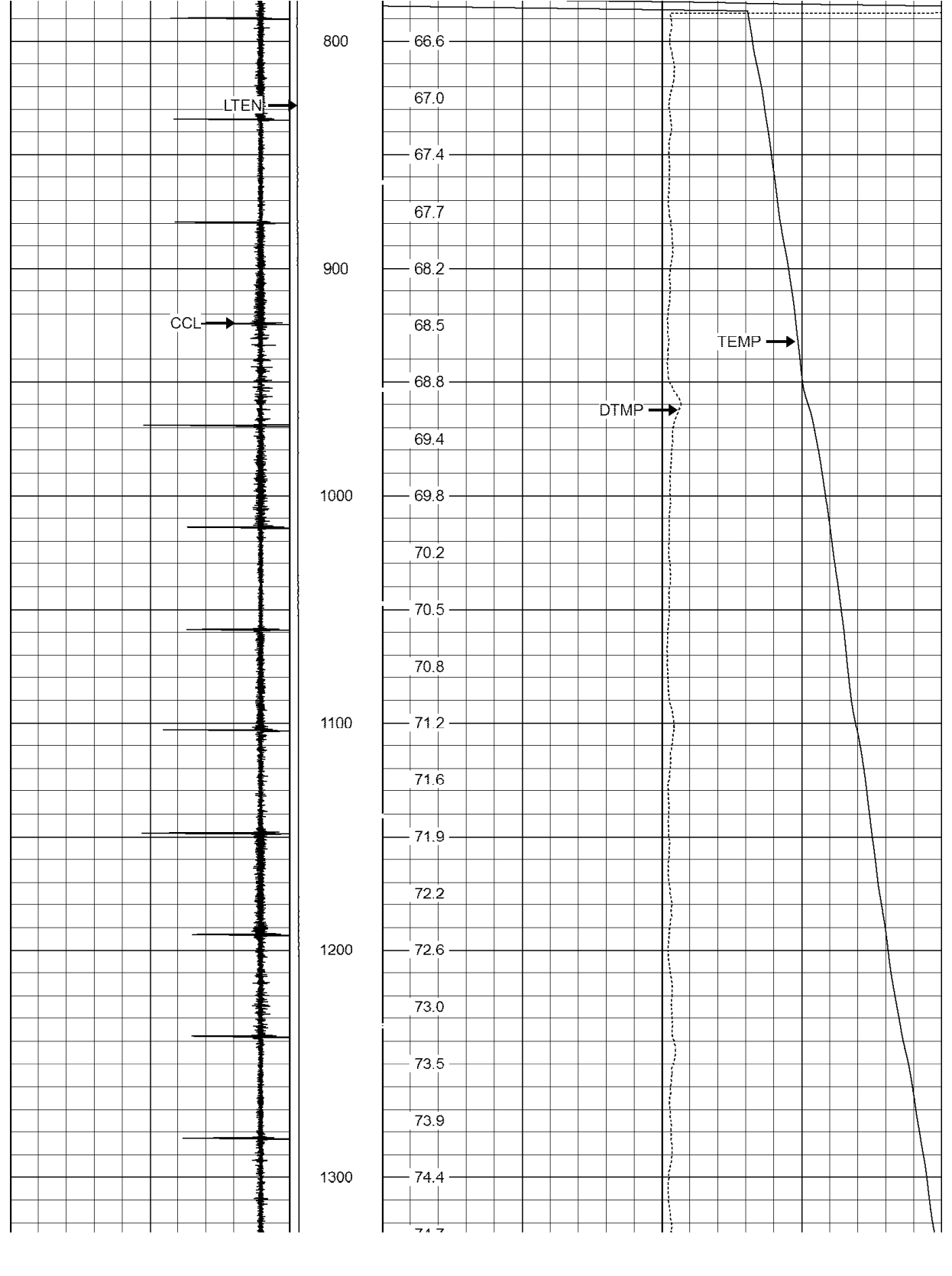
FREE PIPE PASS

ROCKY MOUNTAIN WIRELINE SERVICE

TEMP PASS

Database File: e:\miller federal\021111_bbc_miller_33a.db
Dataset Pathname: TEMP/pass1
Presentation Format: rmws_tem
Dataset Creation: Fri Feb 11 12:39:41 2011 by Log Std Casedhole 07122
Charted by: Depth in Feet scaled 1:600

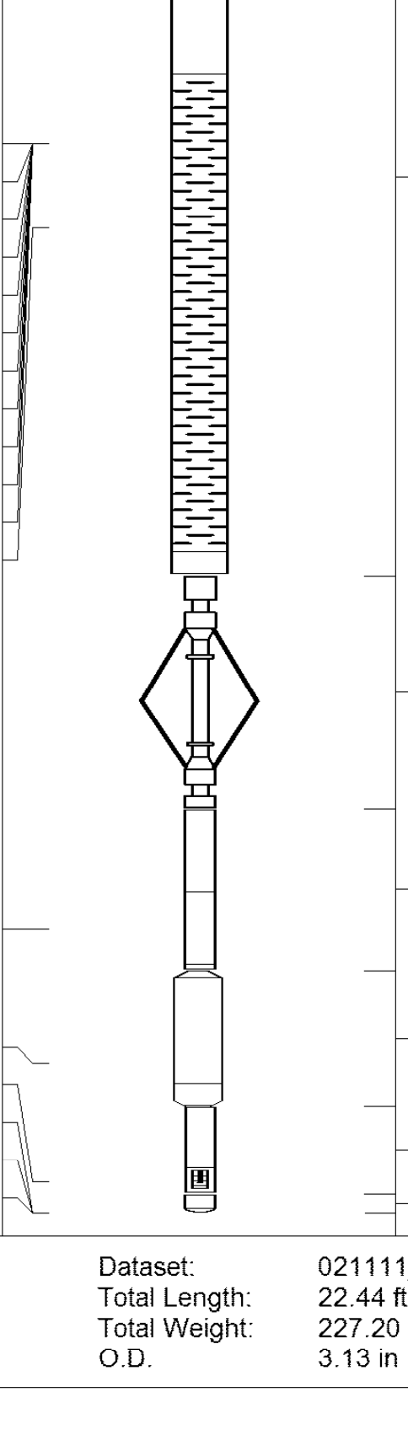
12500 CCL 19900	LTEN	50 TEMP (degF) 75
	0 (lb) 2000	-0.5 DTMP (degF) 0.5
		TEMP (degF)



ROCKY MOUNTAIN WIRELINE SERVICE

TEMP PASS

Sensor	Offset (ft)
WVF3FT	12.71
WVFS1	12.71
WVFS2	12.71
WVFS3	12.71
WVFS4	12.71
WVFS5	12.71
WVFS6	12.71
WVFS7	12.71
WVFS8	12.71
CBLTEMP	12.71
CBLROT	12.71
WVF5FT	11.71
GR	3.38
CCL	1.77
TEMP	0.37
TSTAMP	0.00
ITEMPX	0.00
HVOLTX	0.00



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
PRC-034 (C-1213) Production Roller Centraliser (4 Arm) SONDEX	2.77	1.69	13.00
RBT-004 (1122) Radial Bond Tool (UW 3 1/8)	9.47	3.13	140.00
PRC-034 (C-1214) Production Roller Centraliser (4 Arm) SONDEX	2.77	1.69	13.00
PGR-020 (217692) Production Gamma Ray	1.93	1.69	9.50
CCL-028 (1037) CCL UW 3 1/8" SONDEX	1.61	3.13	36.00
PRT-016 (216611) Platinum Resistance Thermometer	1.04	1.69	6.00
BUL-006 (212965) Bullnose Terminator	0.22	1.69	1.20

Dataset:	021111_bbc_miller_33a.db: field/well/FREE/pass1
Total Length:	22.44 ft
Total Weight:	227.20 lb
O.D.	3.13 in

ROCKY MOUNTAIN WIRELINE SERVICE

Company	BILL BARRETT CORPORATION
Well	MILLER 33A - 6 - 791
Field	GIBSON GULCH
County	GARFIELD
State	COLORADO