ROCKY MOUNTAIN WIRELINE SERVICE

CEMENT BOND LOG
GAMMA RAY \ CCL
TEMPERATURE

Company	BILL BARRETT CORPORATION		
Well	MILLER 14C - 31 - 691		
Field	GIBSON GULCH		
County	GARFIELD	State	COLORADO
Location:	API #: 05-045-19508		Other Services 3.75" GAUGE RING
	SHL: 1579' FSL & 1359' FWL BHL: 0815' FSL & 0665' FWL		
	SEC 31 TWP 6S RGE 91W		
Permanent Datum	G.L.	Elevation 6029'	Elevation K.B. 6052' D.F. 6051' G.L. 6029'
Log Measured From	K.B.	Ft Above PD 23'	
Drilling Measured From	K.B.		

Date	06 - 09 - 2011
Run Number	ONE
Depth Driller	7120'
Present Depth Driller	N/A
Depth Logger	7037'
Bottom Logged Interval	7036'
Top Log Interval	1700'
Fluid Level	SURFACE
Type Fluid	WATER
Max. Recorded Temp.	205° F
Estimated Cement Top	2350'
Equipment Number	208
Location	GRAND JCT.
Recorded By	INRGAM
Witnessed By	MR. LAFFERTY

Run Number	Borehole Record Bit	From	To	Casing Record Size	Weight	From	To
ONE	8.750"	764'	5494'	9.625"	36 #	SURFACE	764'
TWO	7.875"	5494'	7120'	4.5"	11.6#	SURFACE	7120'

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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 4-14-2011
SHORT JOINTS: 4056' TO 4077' & 5688' TO 5710'
MAIN PASS 5" = 100'
TEMP. PASS 2' = 100'
CSG PSI = STATIC

Calibration Report

Database File: C:\Warrior\Data\Miller 5\060911_barrett_miller_14c_31.db
Dataset Pathname: main/pass3.3
Dataset Creation: Thu Jun 09 11:56:44 2011 by Calc Std Casedhole 10121

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: Wed Apr 06 13:50:00 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: 217.004 ft

Master Calibration, performed Thu Jun 09 11:56:06 2011:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3FT	-0.007	1.055	1.000	81.196	75.543	1.532
5FT	0.000	0.993	1.000	81.196	80.724	1.000
S1	-0.019	1.041	0.000	100.000	94.274	1.837
S2	-0.015	1.145	0.000	100.000	86.176	1.319
S3	-0.017	1.158	0.000	100.000	85.085	1.466
S4	-0.023	1.178	0.000	100.000	83.202	1.951
S5	-0.025	1.106	0.000	100.000	88.464	2.184
S6	-0.025	1.038	0.000	100.000	94.089	2.315
S7	-0.025	0.998	0.000	100.000	97.724	2.441
S8	-0.022	1.001	0.000	100.000	97.762	2.150

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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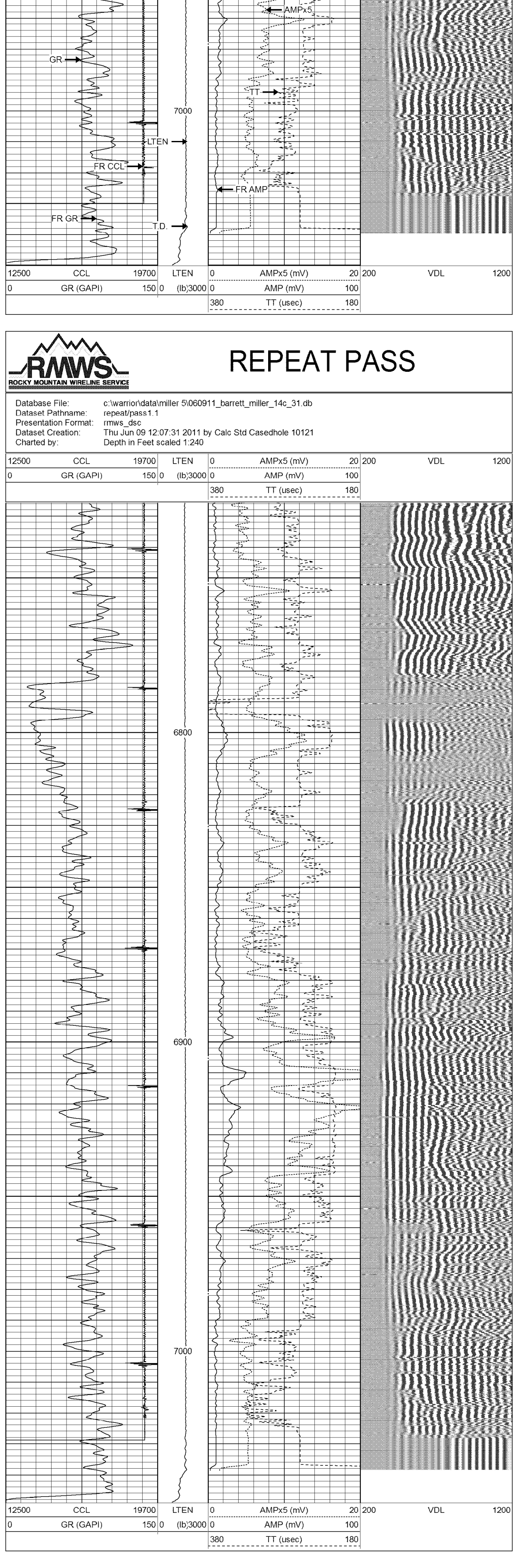
MAIN PASS

Database File: c:\warrior\data\miller 5\060911_barrett_miller_14c_31.db
Dataset Pathname: main/pass3.3
Presentation Format: rmws_dsc
Dataset Creation: Thu Jun 09 11:56:44 2011 by Calc Std Casedhole 10121
Charted by: Depth in Feet scaled 1:240

RMWS
ROCKY MOUNTAIN WIRELINE SERVICE

REPEAT PASS

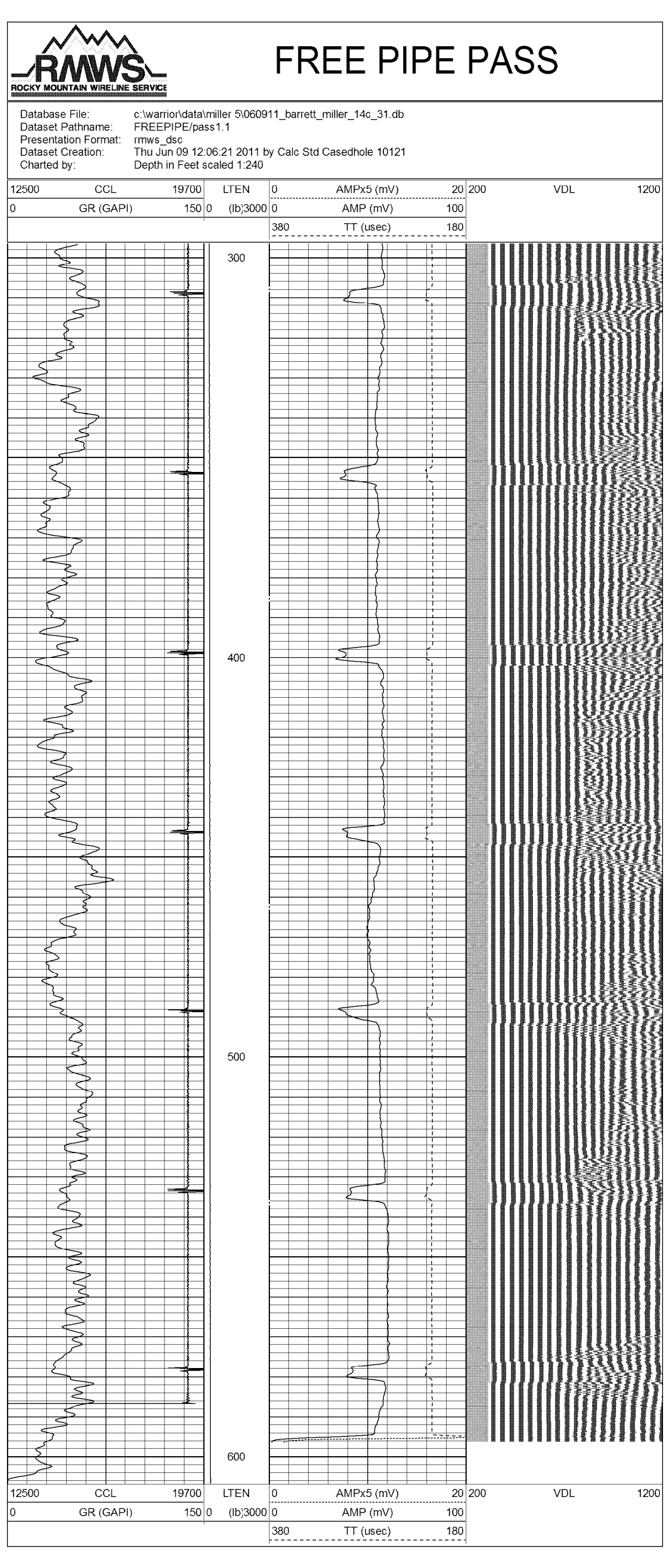
Database File: c:\warrior\data\miller 5\060911_barrett_miller_14c_31.db
Dataset Pathname: repeat/pass1.1
Presentation Format: rmws_dsc
Dataset Creation: Thu Jun 09 12:07:31 2011 by Calc Std Casedhole 10121
Charted by: Depth in Feet scaled 1:240



RMWS
ROCKY MOUNTAIN WIRELINE SERVICE

FREE PIPE PASS

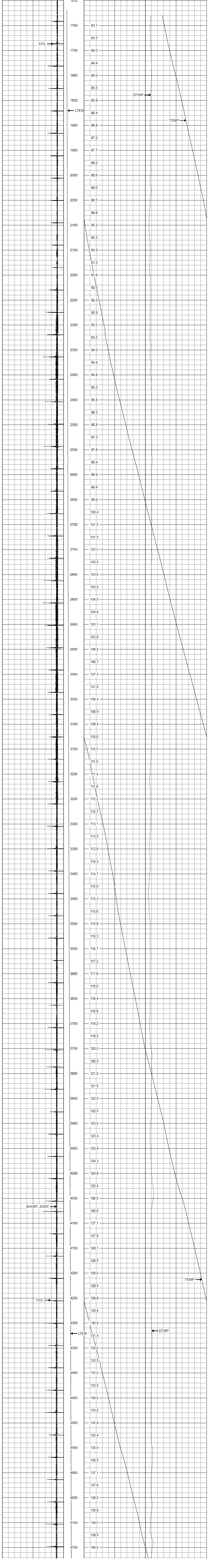
Database File: c:\warrior\data\miller 5\060911_barrett_miller_14c_31.db
Dataset Pathname: FREEPIPE/pass1.1
Presentation Format: rmws_dsc
Dataset Creation: Thu Jun 09 12:06:21 2011 by Calc Std Casedhole 10121
Charted by: Depth in Feet scaled 1:240

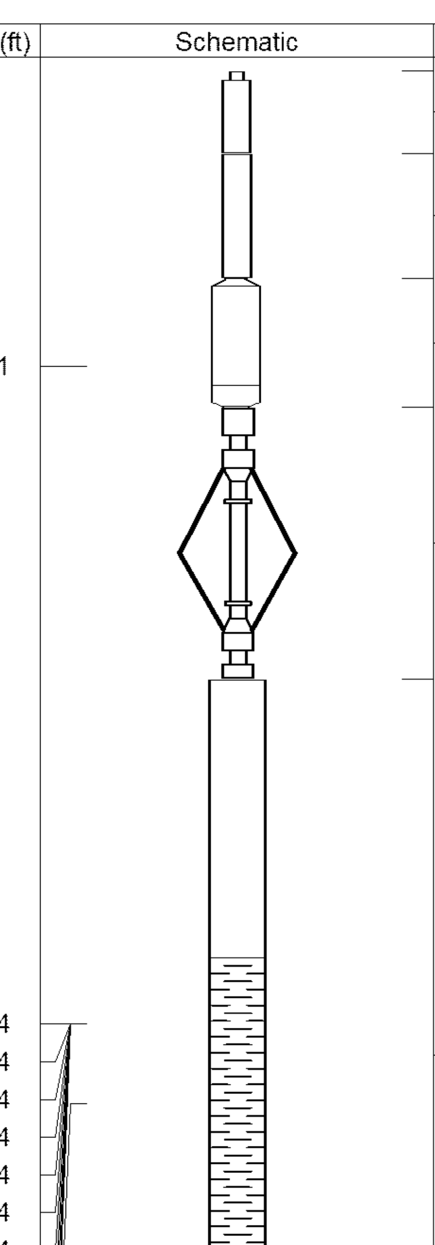


RMWS
ROCKY MOUNTAIN WIRELINE SERVICE

TEMP PASS

Database File: c:\warrior\data\miller 5\060911_barrett_miller_14c_31.db
Dataset Pathname: main/pass3.1
Presentation Format: RMWS_T~1
Dataset Creation: Thu Jun 09 10:55:53 2011
Charted by: Depth in Feet scaled 1:600





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 (1122) 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 (216611) 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:	060911_barrett_miller_14c_31.db: field/well/main/pass3.3
Total Length:	23.73 ft
Total Weight:	245.20 lb
O.D.	3.13 in

RMWS
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Company	BILL BARRETT CORPORATION
Well	MILLER 14C - 31 - 691
Field	GIBSON GULCH
County	GARFIELD
State	COLORADO