RMWS
ROCKY MOUNTAIN WIRELINE SERVICE

CEMENT BOND LOG
GAMMA RAY / CCL
TEMPERATURE

Company	BILL BARRETT CORPORATION
Well	GGU FEDERAL 31A - 29 - 691
Field	GIBSON GULCH
County	GARFIELD State COLORADO
Location:	API # : 05 - 045 - 19798 SHL: 1215' FNL & 1356' FEL BHL: 1146' FNL & 1990' FEL
	SEC 29 TWP 6S RGE 91W
Other Services	3.75" GAUGE RING

Permanent Datum	G.L.	Elevation	6104'
Log Measured From	K.B.	Ft Above PD	23'
Drilling Measured From	K.B.		

Elevation
K.B. 6127'
D.F. 6126'
G.L. 6104'

Date	04 - 02 - 2011
Run Number	ONE
Depth Driller	8250'
Present Depth Driller	NA
Depth Logger	8184'
Bottom Logged Interval	8183'
Top Log Interval	2600'
Fluid Level	SURFACE
Type Fluid	WATER
Max. Recorded Temp.	228.6° F
Estimated Cement Top	3200'
Equipment Number	208
Location	GRAND JCT.
Recorded By	INGRAM
Witnessed By	MR. ETTER

	Borehole Record			Casing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	8.750"	852'	3204'	9.625"	36#	SURFACE	852'
TWO	7.875"	3204'	8250'	4.5"	11.6#	SURFACE	8250'

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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 OPEN HOLE LOG DATED 3-13-11
SHORT JOINTS: 5208' TO 5236' & 6400' TO 6427' & 7680' TO 7707'
MAIN PASS 5" = 100'
TEMP PASS 2" = 100'
CSG PSI = STATIC

Calibration Report

Database File: C:\Warrior\Data\MDP 11\040211_barrett_ggu_fed_31a_29.db
Dataset Pathname: main/pass2.1
Dataset Creation: Sat Apr 02 14:57:52 2011 by Calc Std Casedhole 08121

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:	AJD00094	
Tool Model:	020	
Performed:	Sun Jun 13 13:33:21 1993	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	1123	
Tool Model:	004	
Calibration Casing Diameter:	4.500	in
Calibration Depth:	268.212	ft

Master Calibration, performed Sat Apr 02 10:23:55 2011:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3FT	0.004	0.996	1.000	81.196	77.147	0.994
5FT	-0.001	1.005	1.000	81.196	75.950	0.994
S1	0.004	1.035	0.000	100.000	96.995	-0.411
S2	0.004	1.013	0.000	100.000	99.086	-0.357
S3	0.007	0.958	0.000	100.000	105.211	-0.759
S4	0.005	0.965	0.000	100.000	104.126	-0.508
S5	0.006	0.982	0.000	100.000	102.517	-0.658
S6	0.006	1.002	0.000	100.000	100.449	-0.611
S7	0.007	0.996	0.000	100.000	101.169	-0.740
S8	0.007	1.012	0.000	100.000	99.564	-0.723

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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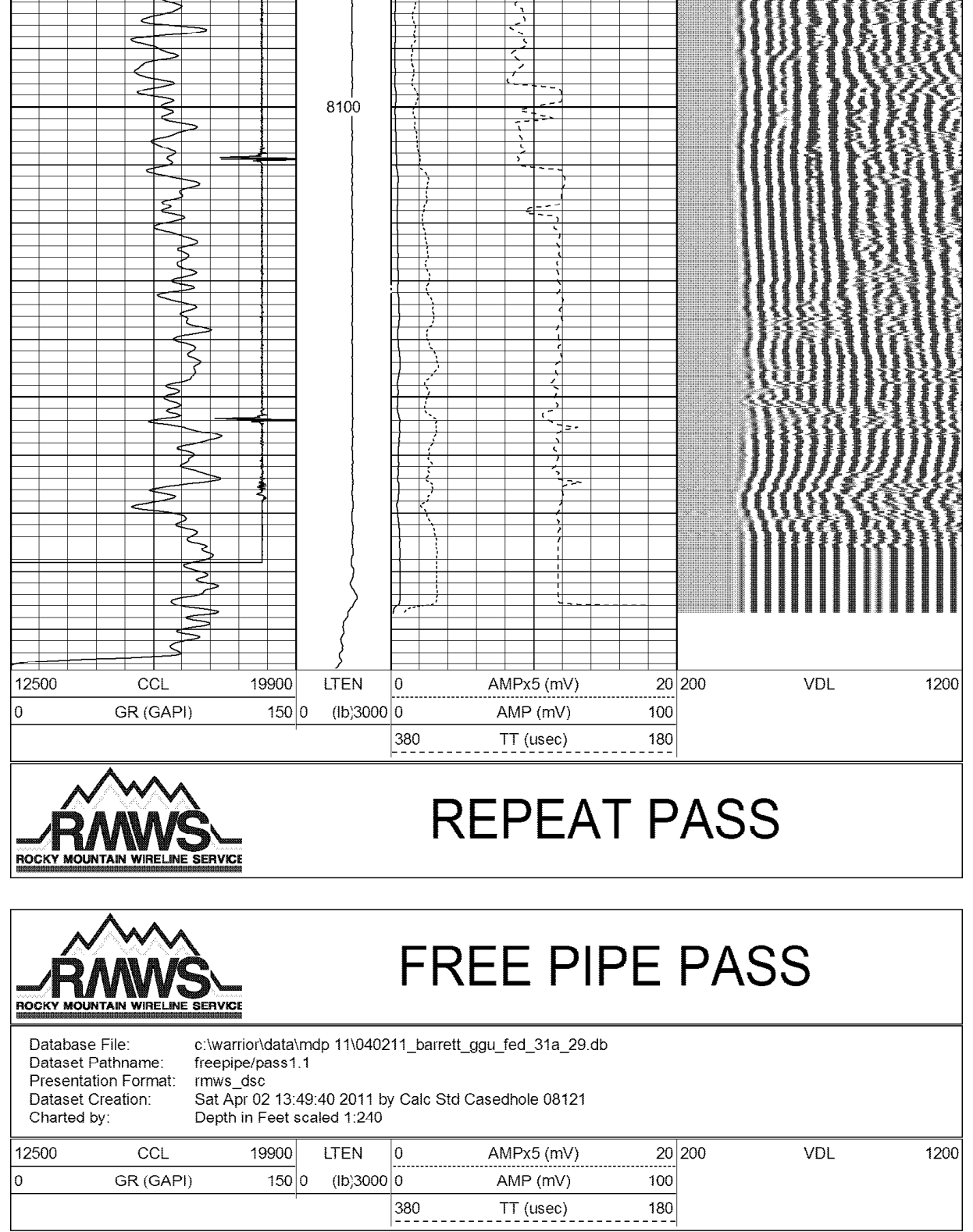
MAIN PASS

Database File: c:\warrior\data\mdp 11\040211_barrett_ggu_fed_31a_29.db
Dataset Pathname: main/pass2.1
Presentation Format: rmws_dsc
Dataset Creation: Sat Apr 02 14:57:52 2011 by Calc Std Casedhole 08121
Charted by: Depth in Feet scaled 1:240

MAIN PASS

REPEAT PASS

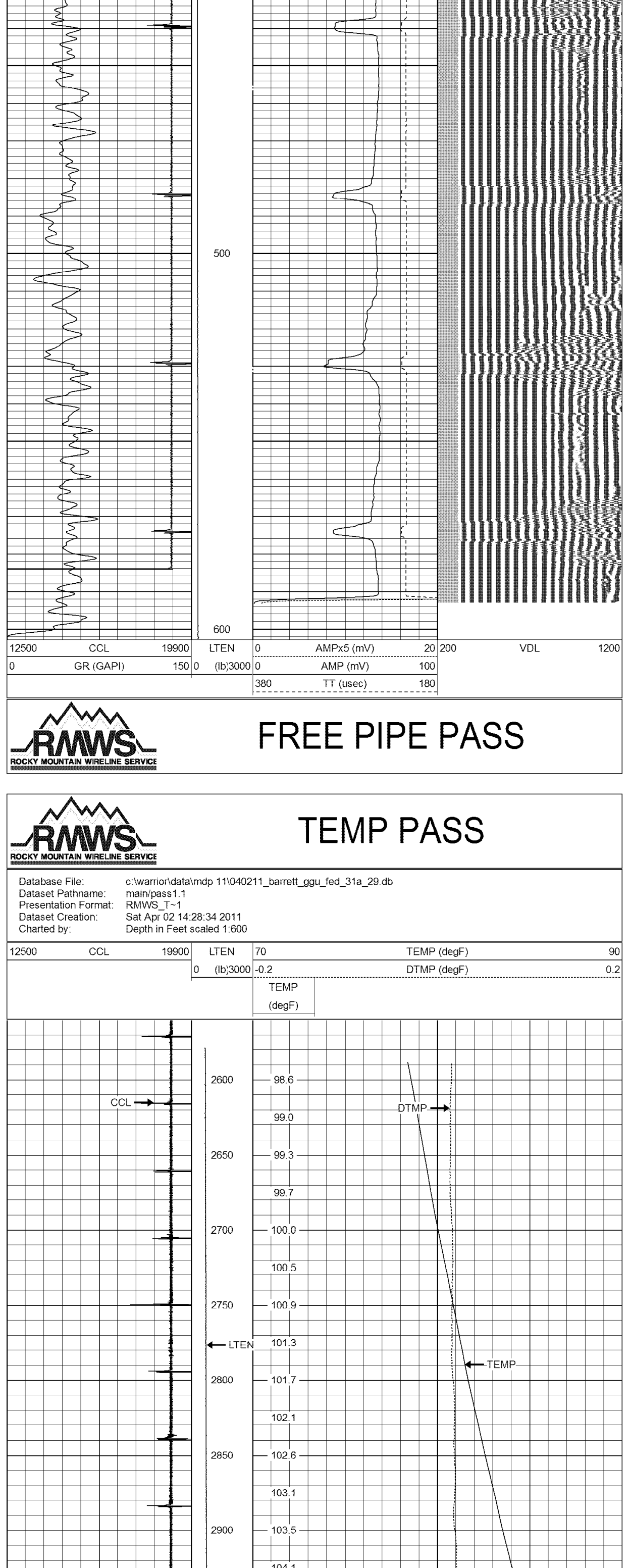
Database File: c:\warrior\data\mdp 11\040211_barrett_ggu_fed_31a_29.db
Dataset Pathname: repeat/pass1.1
Presentation Format: rmws_dsc
Dataset Creation: Sat Apr 02 13:52:07 2011 by Calc Std Casedhole 08121
Charted by: Depth in Feet scaled 1:240



REPEAT PASS

FREE PIPE PASS

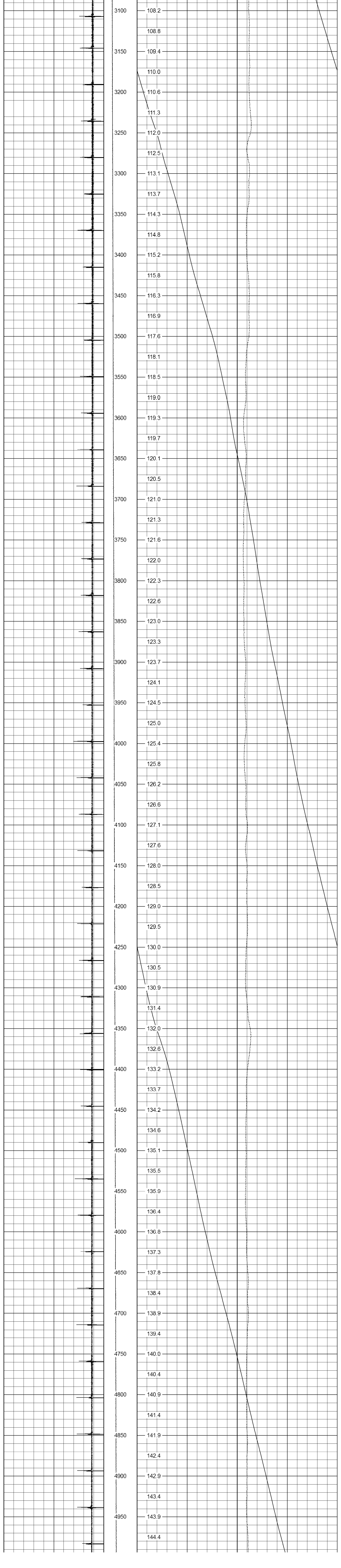
Database File: c:\warrior\data\mdp 11\040211_barrett_ggu_fed_31a_29.db
Dataset Pathname: freepipe/pass1.1
Presentation Format: rmws_dsc
Dataset Creation: Sat Apr 02 13:49:40 2011 by Calc Std Casedhole 08121
Charted by: Depth in Feet scaled 1:240



FREE PIPE PASS

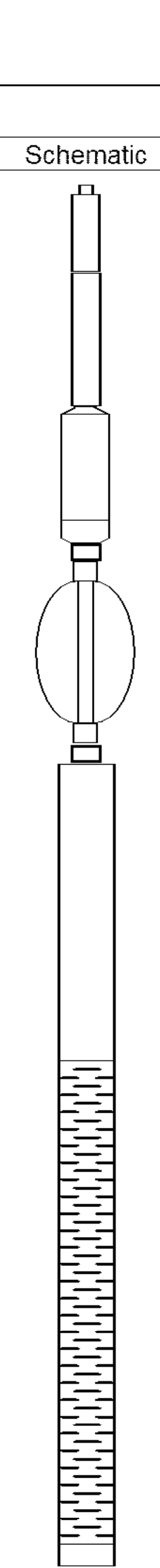
TEMP PASS

Database File: c:\warrior\data\mdp 11\040211_barrett_ggu_fed_31a_29.db
Dataset Pathname: main/pass1.1
Presentation Format: RMWS_T~1
Dataset Creation: Sat Apr 02 14:28:34 2011
Charted by: Depth in Feet scaled 1:600



TEMP PASS

ROCKY MOUNTAIN WIRELINE SERVICE

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			CHD-AES (000001) Cable Head	1.04	1.69	2.00
			XTU-002 (216414) Crossover Ultrawire Toolbus To Ultralink	1.58	1.69	6.50
CCL	18.34		CCL-028 (1037) CCL UW 3 1/8" SONDEX	1.61	3.13	36.00
			SONDEX/GO SONDEX/GO	0.21	1.69	0.50
			TITAN169 Titan 1 11/16" Centralizer	2.17	1.69	5.00
			SONDEX/GO SONDEX/GO	0.21	1.69	0.50
WVF3FT WVFS1 WVFS2 WVFS3 WVFS4 WVFS5 WVFS6 WVFS7 WVFS8 CBLTEMP CBLROT WVF5FT	10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 9.90		RBT-004 (1123) Radial Bond Tool (UW 3 1/8)	9.47	3.13	140.00
			SONDEX/GO SONDEX/GO	0.21	1.69	0.50
			TITAN169 Titan 1 11/16" Centralizer	2.17	1.69	5.00
			SONDEX/GO SONDEX/GO	0.21	1.69	0.50
GR	1.76		PGR-020 (AJD00094) Production Gamma Ray	1.93	1.69	9.50
TEMP TSTAMP ITEMPX HVOLTX	0.37 0.00 0.00 0.00		PRT-016 (216611) Platinum Resistance Thermometer	1.04	1.69	6.00
			BUL-006 (212965) Bullnose Terminator	0.22	1.69	1.20

Dataset:	040211_barrett_ggu_fed_31a_29.db: field/well/main/pass2.1
Total Length:	22.06 ft
Total Weight:	213.20 lb
O.D.	3.13 in

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Company	BILL BARRETT CORPORATION
Well	GGU FEDERAL 31A - 29 - 691
Field	GIBSON GULCH
County	GARFIELD
State	COLORADO