RMWS
ROCKY MOUNTAIN WIRELINE SERVICE

CEMENT BOND LOG
GAMMA RAY / CCL
TEMPERATURE

Company **BILL BARRETT CORPORATION**
Well **GGU FEDERAL 31D - 29 - 691**
Field **GIBSON GULCH**
County **GARFIELD** State **COLORADO**
Location: API # : 05 - 045 - 19802
SHL: 1206' FNL & 1353' FEL
BHL: 0165' 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	7575'
Present Depth Driller	NA
Depth Logger	7396'
Bottom Logged Interval	7395'
Top Log Interval	2300'
Fluid Level	SURFACE
Type Fluid	WATER
Max. Recorded Temp.	208.1° F
Estimated Cement Top	3304'
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"	764'	5494'	9.625"	36#	SURFACE	764'
TWO	7.875"	5494'	7575'	4.5"	11.6#	SURFACE	7575'

<<< Fold Here >>>

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 3-6-11
SHORT JOINTS: 5008' TO 5034' & 6199' TO 6226'
MAIN PASS 5" = 100'
TEMP PASS 2" = 100'
CSG PSI = STATIC

Calibration Report

Database File: C:\Warrior\Data\MDP 11\040211_barrett_ggu_fed_31d_29.db
Dataset Pathname: main/pass2.1
Dataset Creation: Sat Apr 02 11:49:44 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: 234.771 ft

Master Calibration, performed Sat Apr 02 08:30:10 2011:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3FT	0.004	0.782	1.000	81.196	74.120	0.995
5FT	-0.001	0.863	1.000	81.196	76.622	0.994
S1	0.004	0.820	0.000	100.000	122.549	-0.519
S2	0.004	0.805	0.000	100.000	124.732	-0.449
S3	0.007	0.768	0.000	100.000	131.470	-0.948
S4	0.005	0.776	0.000	100.000	129.616	-0.633
S5	0.006	0.783	0.000	100.000	128.722	-0.827
S6	0.006	0.799	0.000	100.000	126.101	-0.767
S7	0.007	0.784	0.000	100.000	128.767	-0.942
S8	0.007	0.787	0.000	100.000	128.309	-0.932

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

RMWS
ROCKY MOUNTAIN WIRELINE SERVICE

MAIN PASS

Database File: c:\warrior\data\mdp 11\040211_barrett_ggu_fed_31d_29.db
Dataset Pathname: main/pass2.1
Presentation Format: rmws_dsc
Dataset Creation: Sat Apr 02 11:49:44 2011 by Calc Std Casedhole 08121
Charted by: Depth in Feet scaled 1:240

12500 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	

12500	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			

RMWS ROCKY MOUNTAIN WIRELINE SERVICE

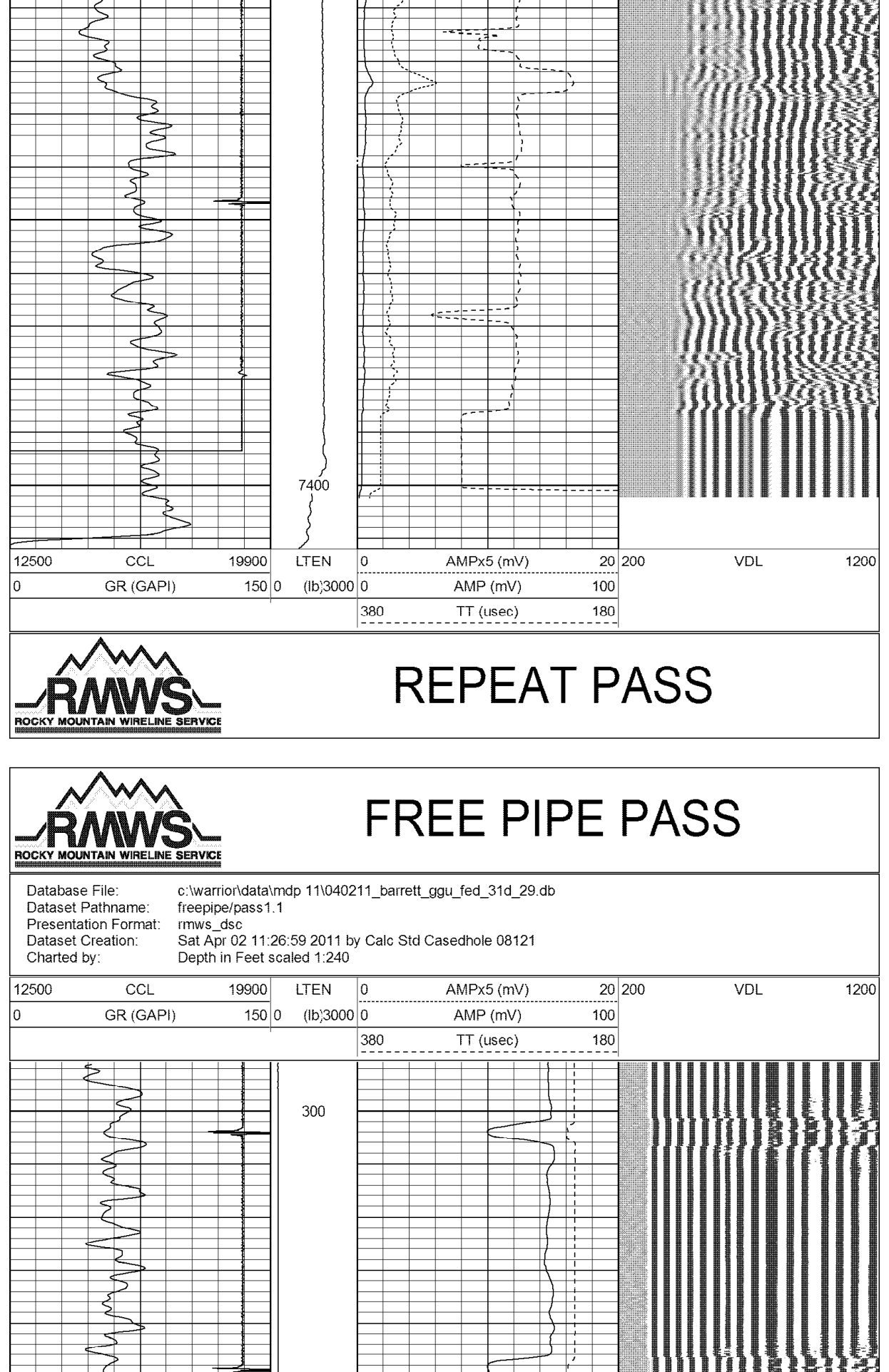
MAIN PASS

RMWS ROCKY MOUNTAIN WIRELINE SERVICE

REPEAT PASS

Database File: c:\warrior\data\mdp 11\040211_barrett_ggu_fed_31d_29.db
Dataset Pathname: repeat/pass1.1
Presentation Format: rmws_dsc
Dataset Creation: Sat Apr 02 11:29:05 2011 by Calc Std Casedhole 08121
Charted by: Depth in Feet scaled 1:240

12500	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			



12500	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			

RMWS ROCKY MOUNTAIN WIRELINE SERVICE

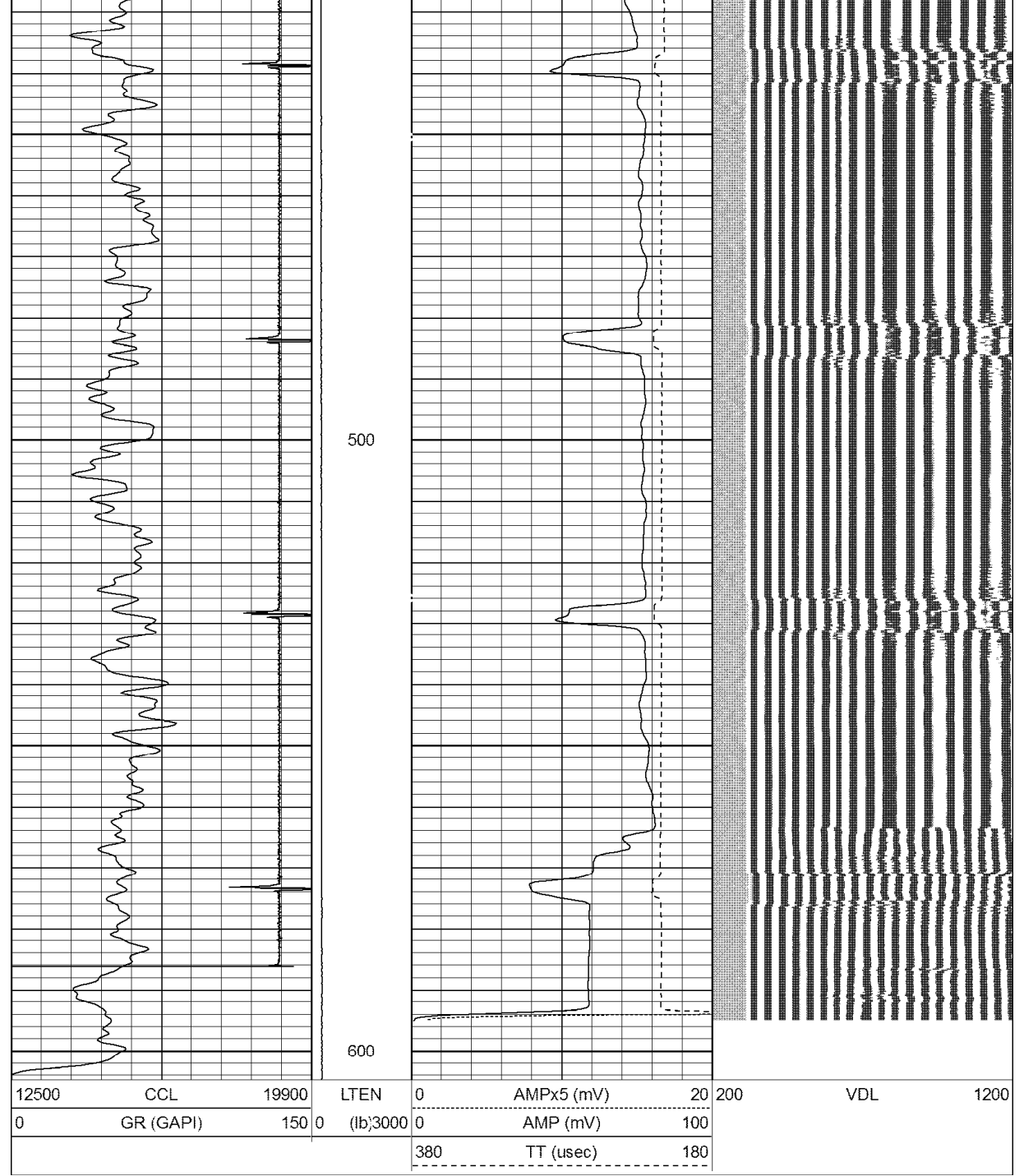
REPEAT PASS

RMWS ROCKY MOUNTAIN WIRELINE SERVICE

FREE PIPE PASS

Database File: c:\warrior\data\mdp 11\040211_barrett_ggu_fed_31d_29.db
Dataset Pathname: freepipe/pass1.1
Presentation Format: rmws_dsc
Dataset Creation: Sat Apr 02 11:26:59 2011 by Calc Std Casedhole 08121
Charted by: Depth in Feet scaled 1:240

12500	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			



12500	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			

RMWS ROCKY MOUNTAIN WIRELINE SERVICE

FREE PIPE PASS

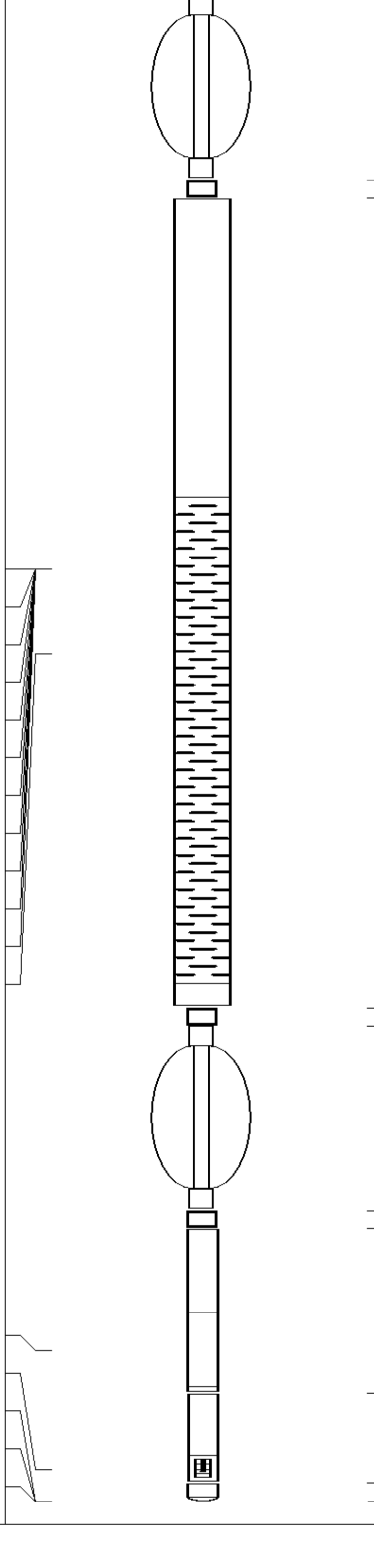
RMWS ROCKY MOUNTAIN WIRELINE SERVICE

TEMP PASS

Database File: c:\warrior\data\mdp 11\040211_barrett_ggu_fed_31d_29.db
Dataset Pathname: main/pass1.1
Presentation Format: RMWS_T~1
Dataset Creation: Sat Apr 02 11:41:05 2011
Charted by: Depth in Feet scaled 1:600

12500	CCL	19900	LTEN	70	TEMP (degF)	90
			0 (lb) 3000	-0.2	DTMP (degF)	0.2
				TEMP (degF)		

TEMP PASS

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	0.37 0.00		PRT-016 (216611) Platinum Resistance Thermometer	1.04	1.69	6.00
ITEMPX HVOLTX	0.00 0.00		BUL-006 (212965) Bullnose Terminator	0.22	1.69	1.20

Dataset:	040211_barrett_ggu_fed_31d_29.db: field/well/main/pass2.1
Total Length:	22.06 ft
Total Weight:	213.20 lb
O.D.	3.13 in

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