RMWS
ROCKY MOUNTAIN WIRELINE SERVICE

CEMENT BOND LOG
GAMMA RAY / CCL
TEMPERATURE

Company BILL BARRETT CORPORATION
Well GGU FEDERAL 21D - 33 - 691
Field GIBSON GULCH
County GARFIELD State COLORADO
Location: API #: 05 - 045 - 18923
SHL: 0395' FNL & 0270' FWL
BHL: 0205' FNL & 1990' FWL
SEC 33 TWP 6S RGE 91W
Other Services
3.75" GAUGE RING

Permanent Datum	G.L.	Elevation	6352'
Log Measured From	K.B.	Ft Above PD	23'
Drilling Measured From	K.B.		

Elevation
K.B. 6375'
D.F. 6374'
G.L. 6352'

Date	09 - 07 - 2010
Run Number	ONE
Depth Driller	8020'
Present Depth Driller	NA
Depth Logger	7901'
Bottom Logged Interval	7899'
Top Log Interval	2400'
Fluid Level	SURFACE
Type Fluid	WATER
Max. Recorded Temp.	215.9° F
Estimated Cement Top	3086'
Equipment Number	208
Location	GRAND JCT.
Recorded By	INGRAM
Witnessed By	MR. LAFFERTY

Borehole Record				Casing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	8.750"	840'	6000'	9.625"	36#	SURFACE	840'
TWO	7.880"	6000'	8020'	4.5"	11.6#	SURFACE	8020'

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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 WEATHER OPEN HOLE LOG DATED 8-22-10
SHORT JOINTS: 5025' TO 5046' & 6475' TO 6496'
MAIN PASS: 5" = 100'
TEMP PASS: 2" = 100'
CSG PSI = STATIC

Calibration Report

Database File: 090810_barrett_ggu_fed_21d_33.db
Dataset Pathname: main/pass1.2
Dataset Creation: Wed Sep 08 20:21:20 2010

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: 217693
Tool Model: 020
Performed: Tue Sep 07 12:24:25 2010

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: 1123
Tool Model: 004

Calibration Casing Diameter: 4.500 in
Calibration Depth: 224.887 ft

Master Calibration, performed Tue Sep 07 17:37:35 2010:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3FT	0.004	0.965	1.000	81.196	97.805	0.880
5FT	-0.001	0.970	1.000	81.196	81.973	0.847
S1	0.004	1.035	0.000	100.000	96.973	-0.411
S2	0.004	0.989	0.000	100.000	101.508	-0.366
S3	0.007	0.929	0.000	100.000	108.472	-0.783
S4	0.005	0.929	0.000	100.000	108.171	-0.528
S5	0.006	0.940	0.000	100.000	107.140	-0.688
S6	0.006	0.974	0.000	100.000	103.335	-0.628
S7	0.007	0.987	0.000	100.000	102.121	-0.747
S8	0.007	1.010	0.000	100.000	99.770	-0.725

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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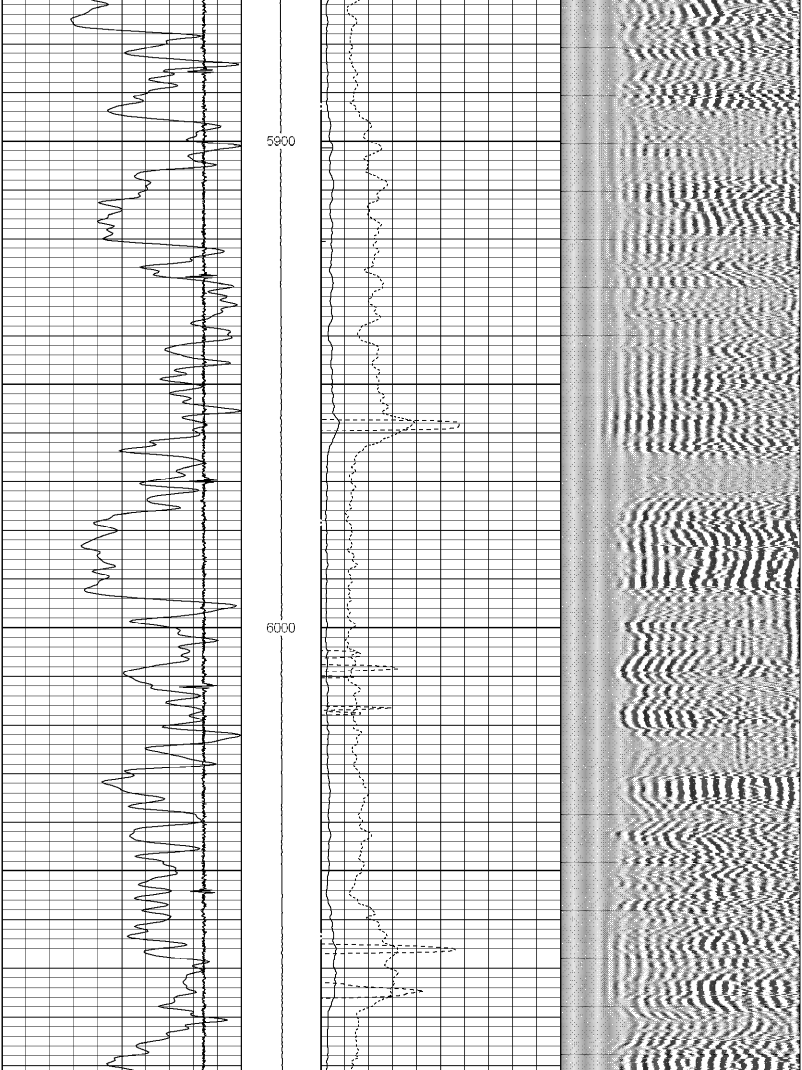
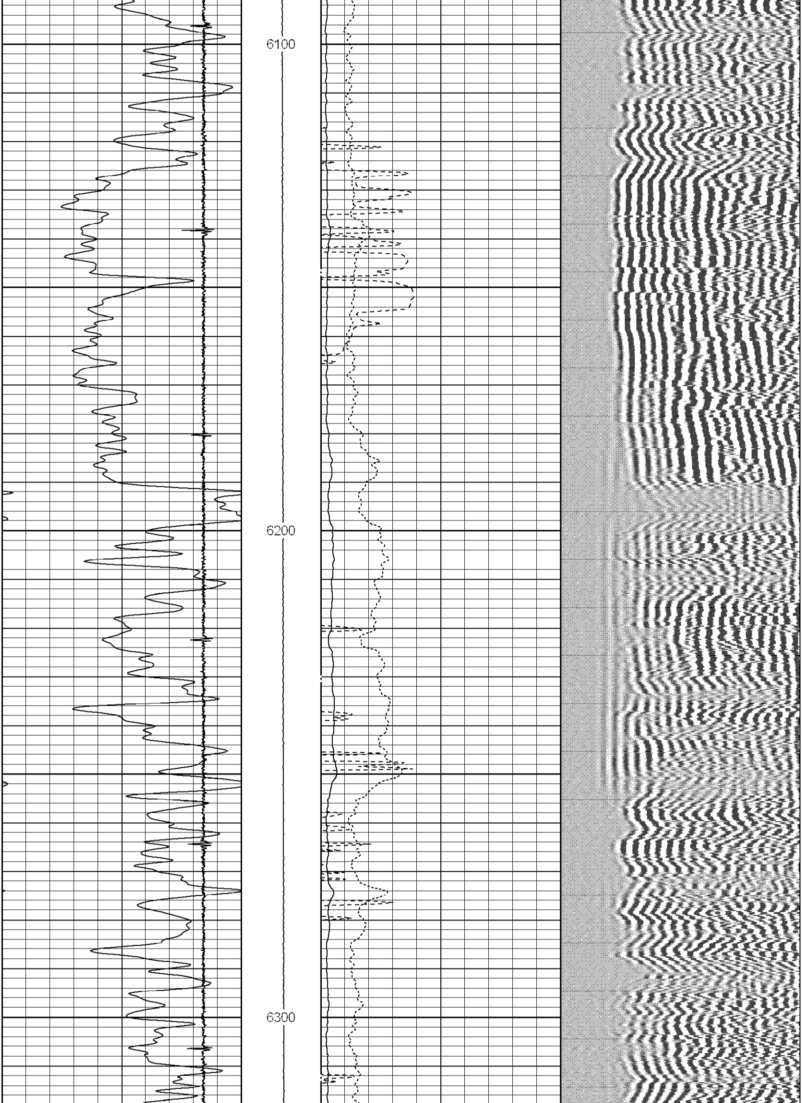
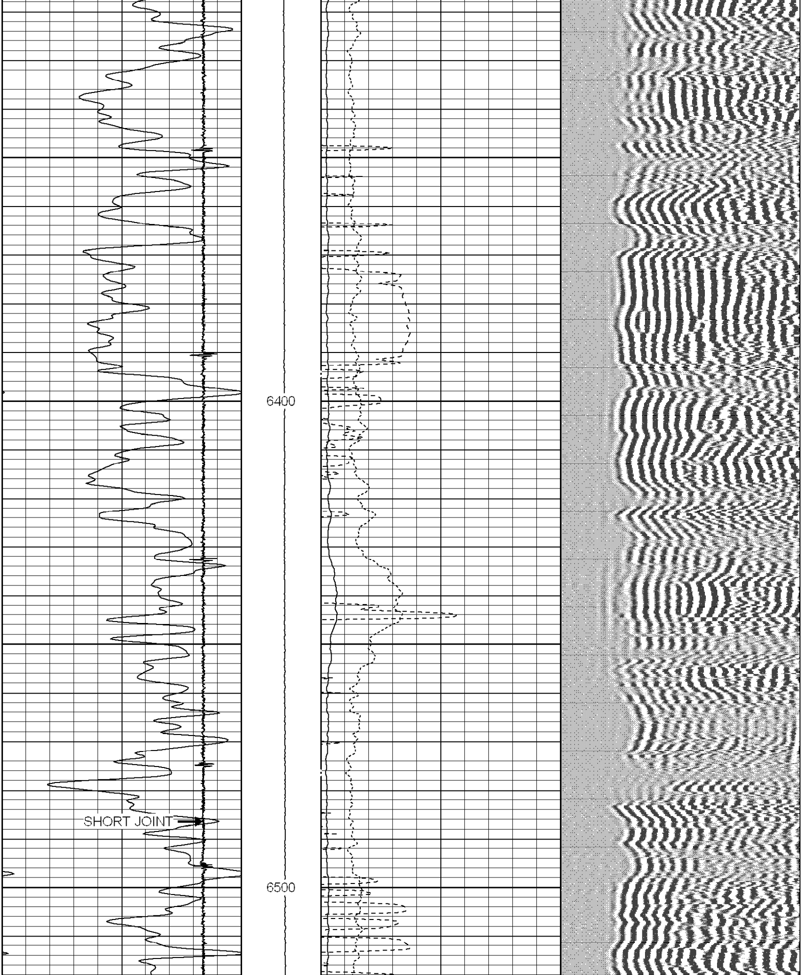
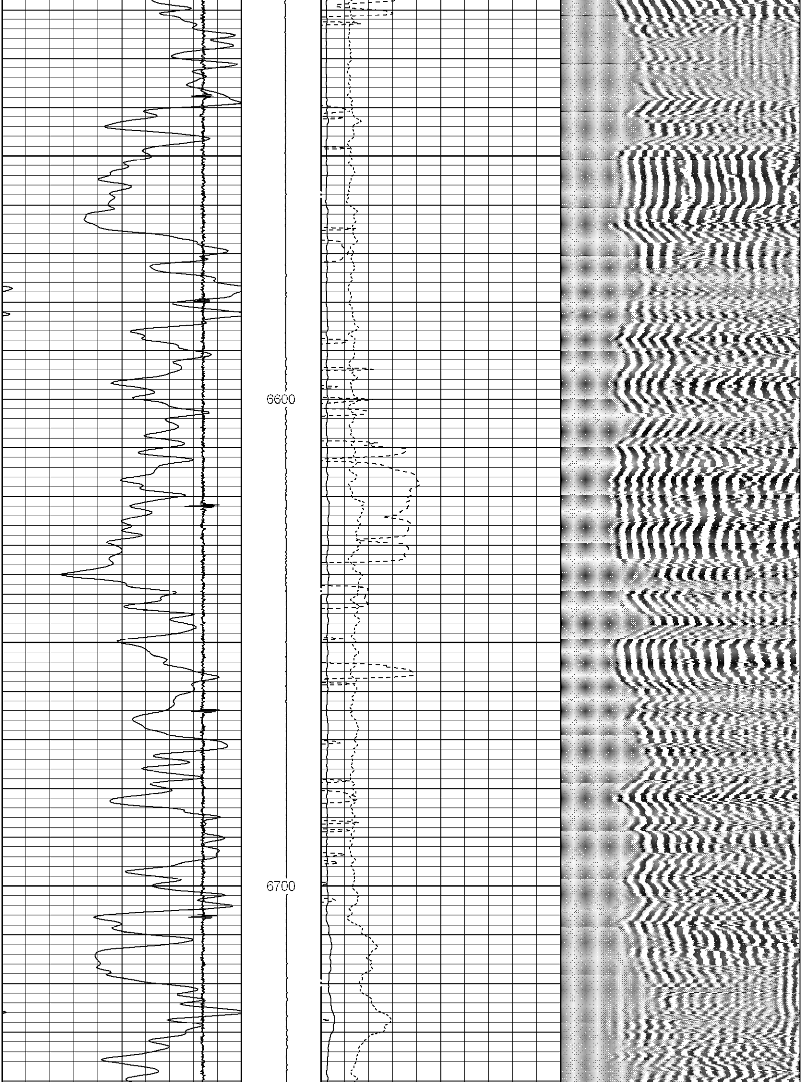
MAIN PASS

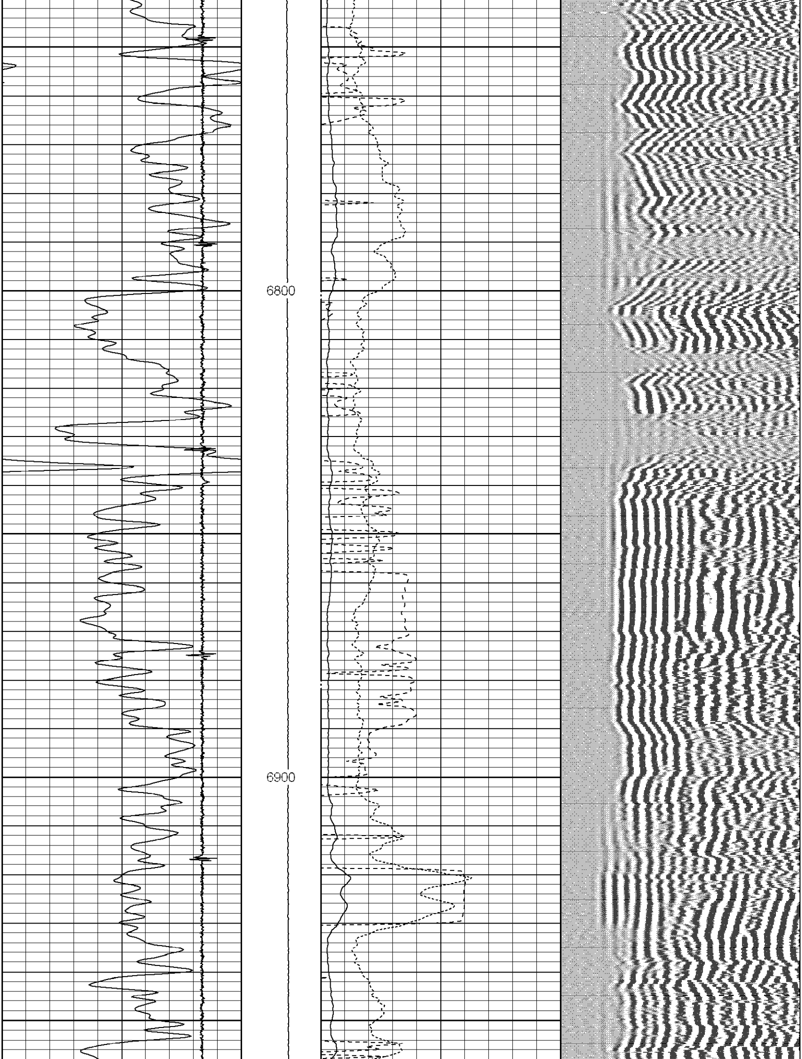
Database File: 090810_barrett_ggu_fed_21d_33.db
Dataset Pathname: main/pass1.2
Presentation Format: rmws_dsc
Dataset Creation: Wed Sep 08 20:21:20 2010
Charted by: Depth in Feet scaled 1:240

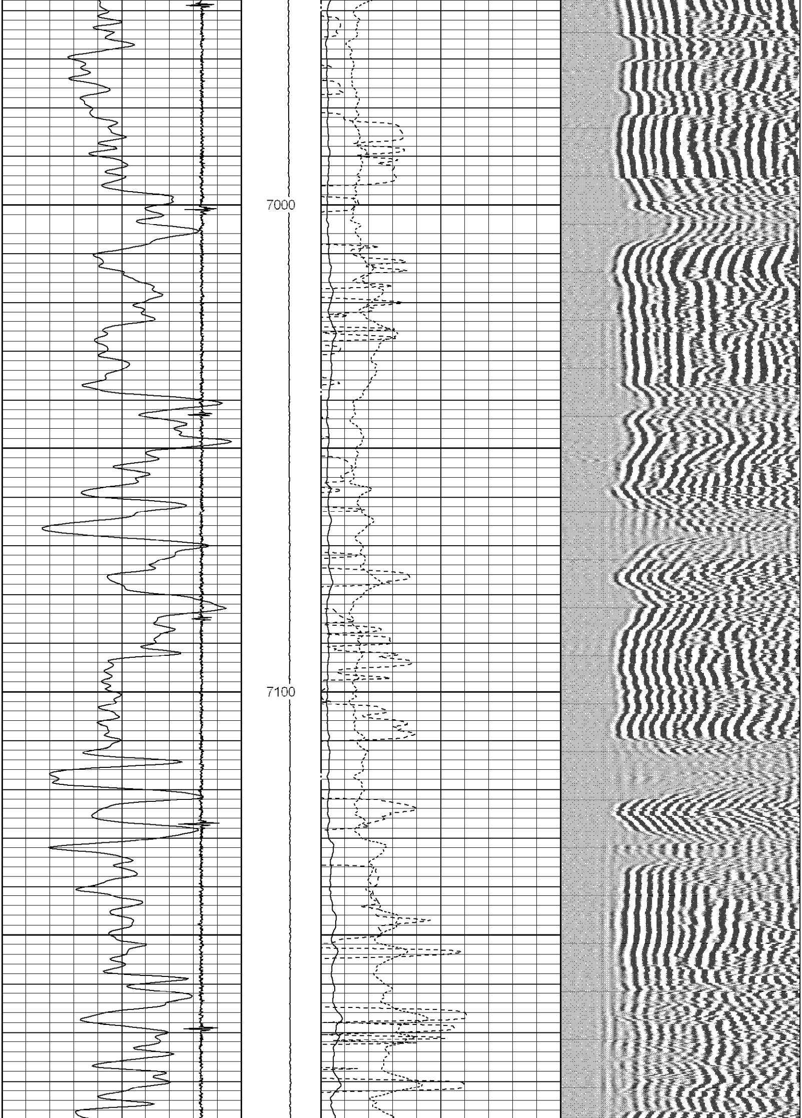


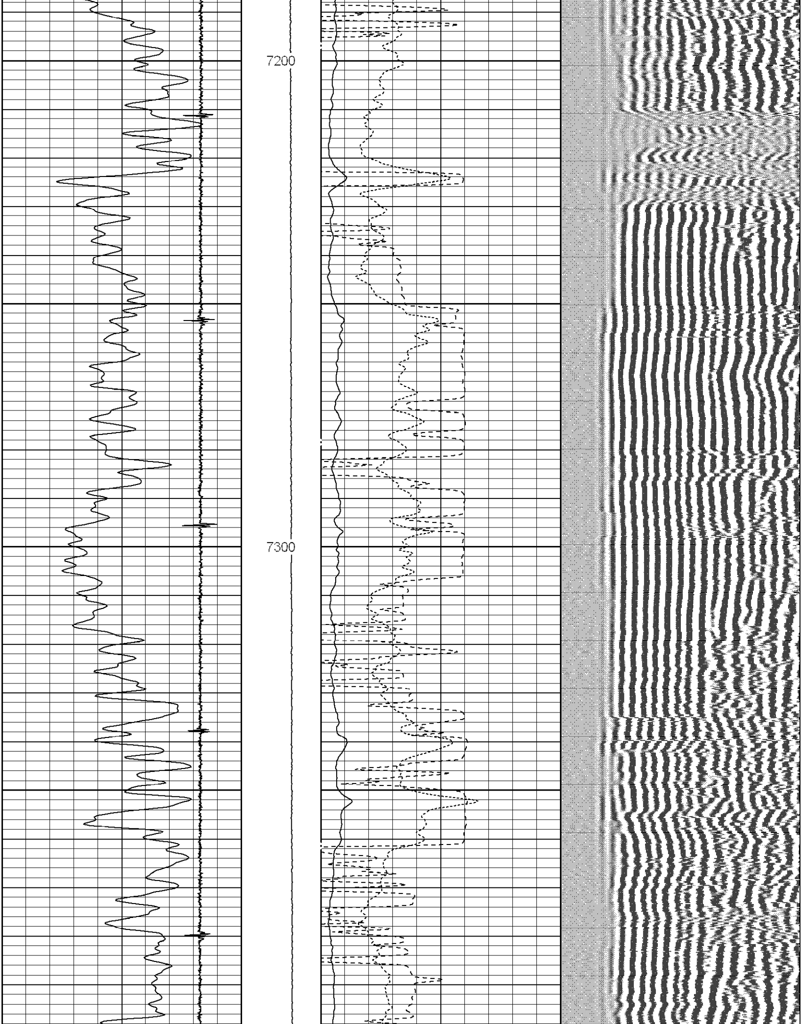


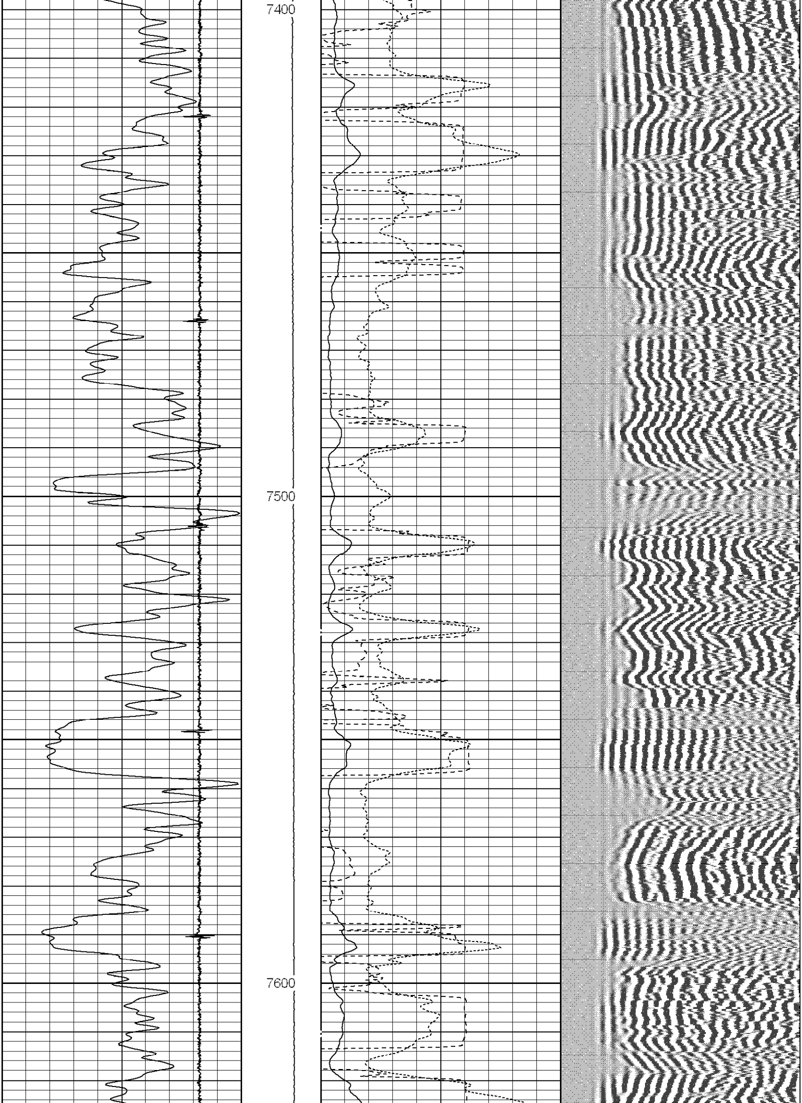


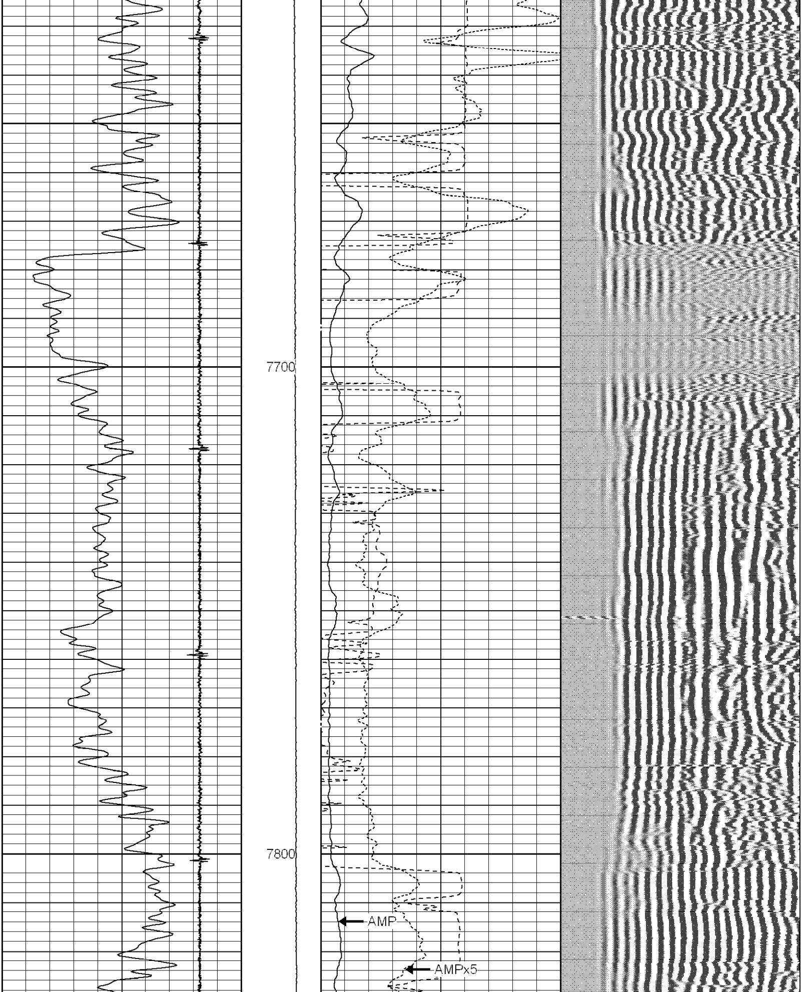


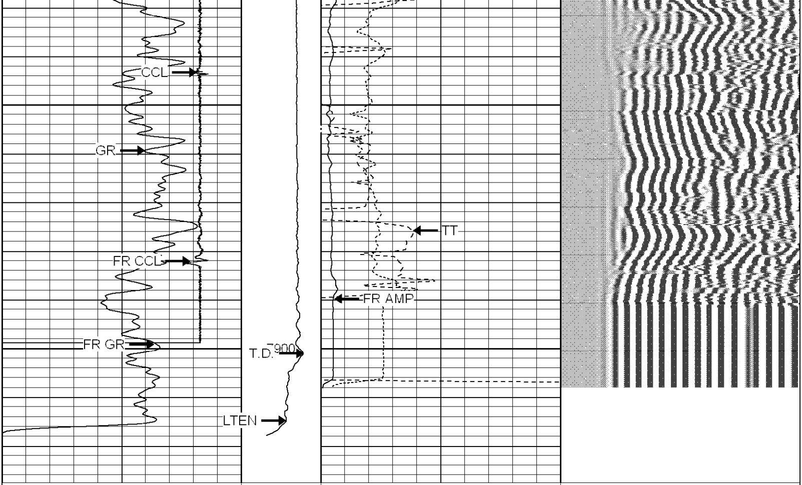












16500	CCL	19100	LTEN	0	AMPx5 (mV)	20	200	VDL	1200
0	GR (GAPI)	150	0 (lb)3000	0	AMP (mV)	100			
				380	TT (usec)	180			

ROCKY MOUNTAIN WIRELINE SERVICE

MAIN PASS

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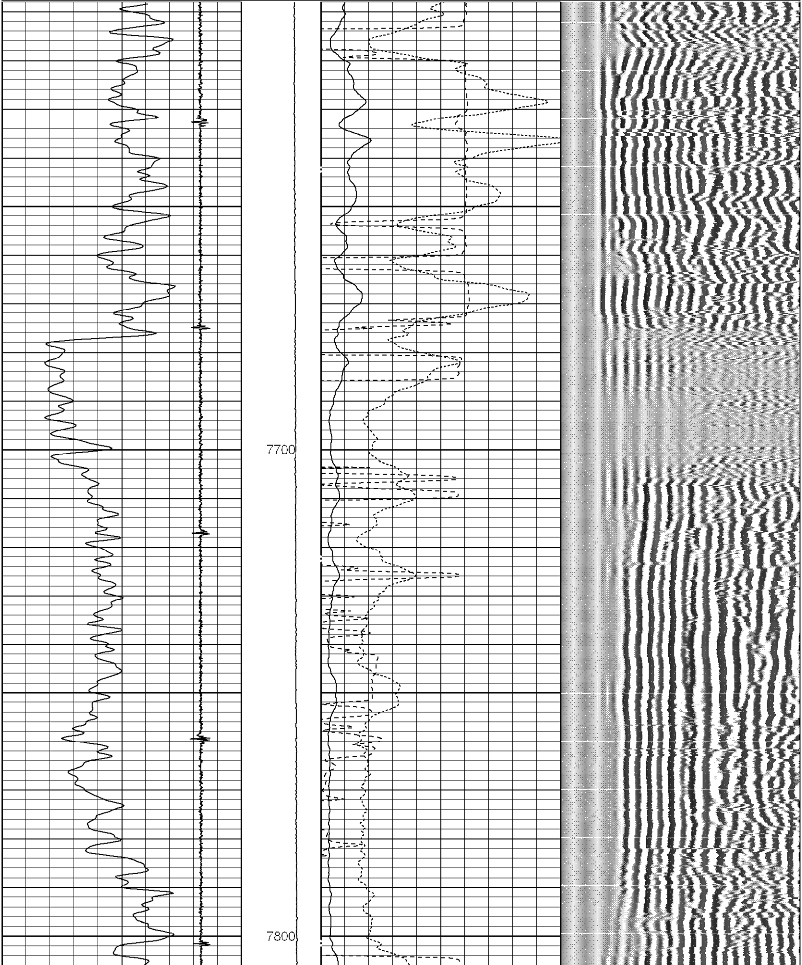
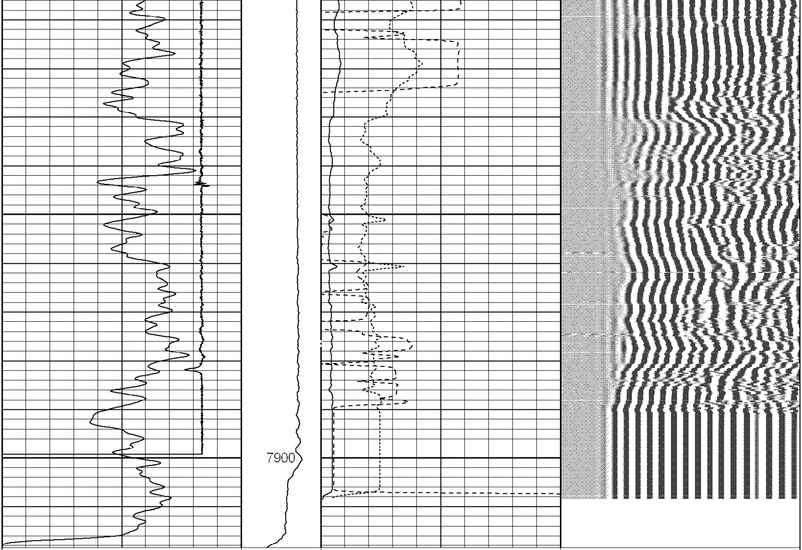
REPEAT PASS

Database File:	090810_barrett_ggu_fed_21d_33.db
Dataset Pathname:	repeat/pass1.1
Presentation Format:	rmws_dsc
Dataset Creation:	Wed Sep 08 20:12:08 2010 by Calc Std Casedhole 08121
Charted by:	Depth in Feet scaled 1:240

16500	CCL	19100	LTEN	0	AMPx5 (mV)	20	200	VDL	1200
0	GR (GAPI)	150	0 (lb)3000	0	AMP (mV)	100			
				380	TT (usec)	180			





16500	CCL	19100	LTEN	0	AMPx5 (mV)	20	200	VDL	1200
0	GR (GAPI)	150	0 (lb)3000	0	AMP (mV)	100			
				380	TT (usec)	180			

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REPEAT PASS

RMWS
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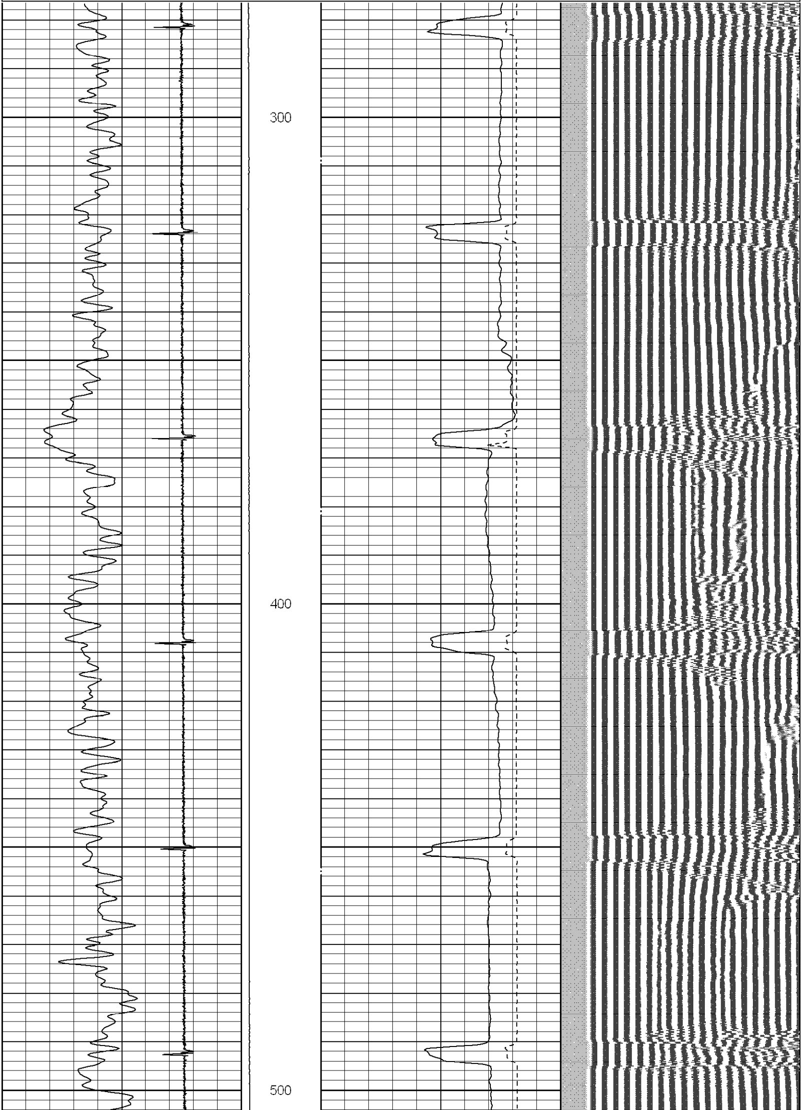
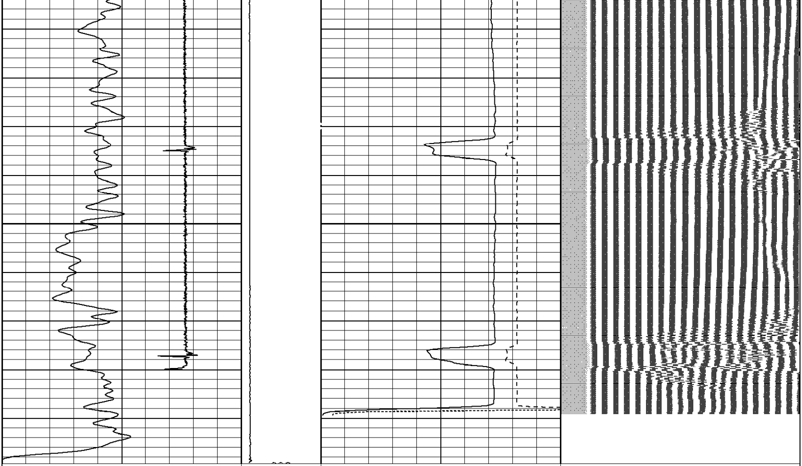
FREE PIPE PASS

Database File: 090810_barrett_ggu_fed_21d_33.db
Dataset Pathname: freepipe/pass1.1
Presentation Format: rmws_dsc
Dataset Creation: Wed Sep 08 20:08:04 2010 by Calc Std Casedhole 08121
Charted by: Depth in Feet scaled 1:240

16500	CCL	19100	LTEN	0	AMPx5 (mV)	20	200	VDL	1200
0	GR (GAPI)	150	0 (lb)3000	0	AMP (mV)	100			
				380	TT (usec)	180			





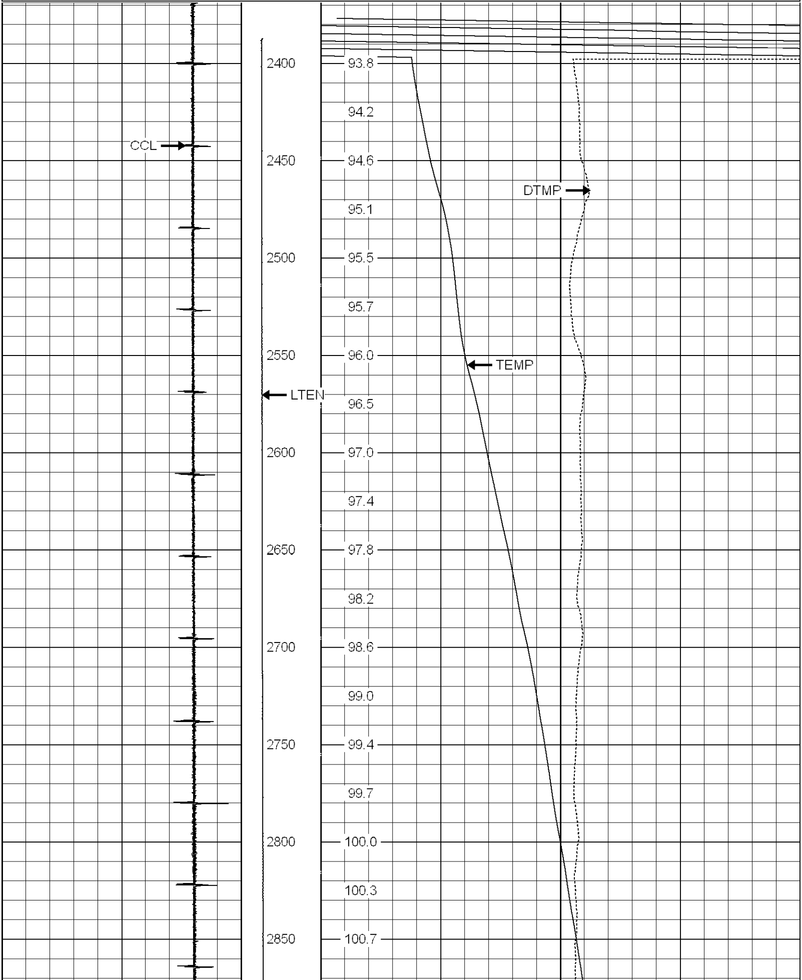
16500 CCL 19100	LTEN	0 AMPx5 (mV) 20	200 VDL 1200
0 GR (GAPI) 150	0 (lb)3000	0 AMP (mV) 100	
		380 TT (usec) 180	

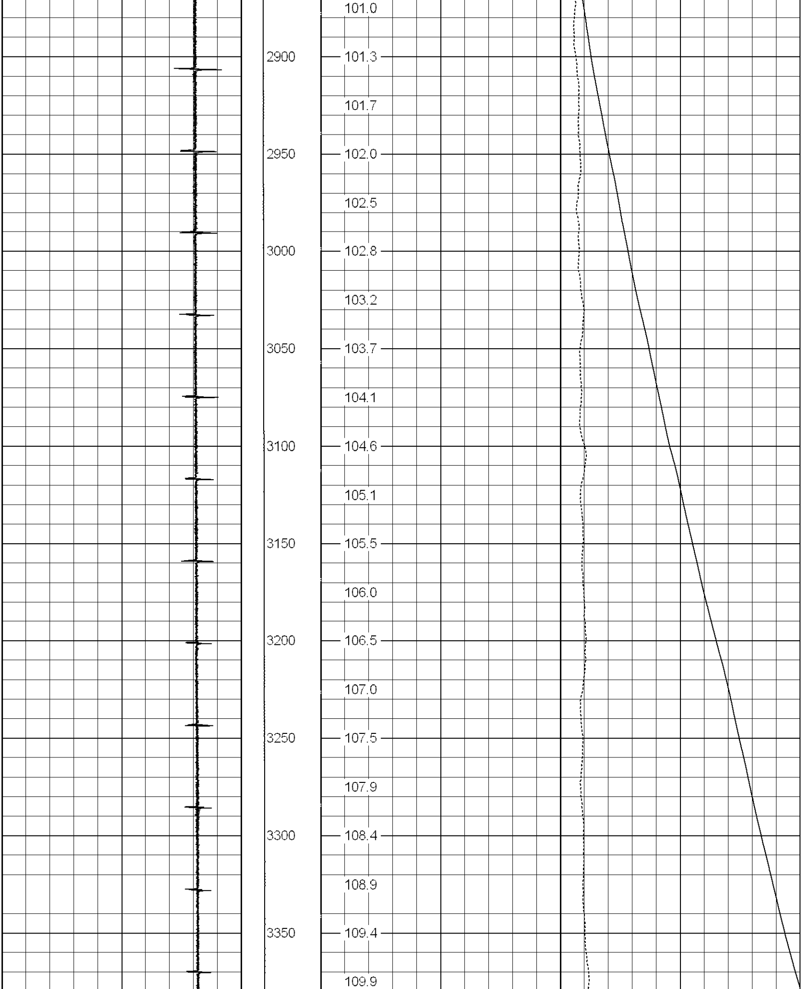
FREE PIPE PASS

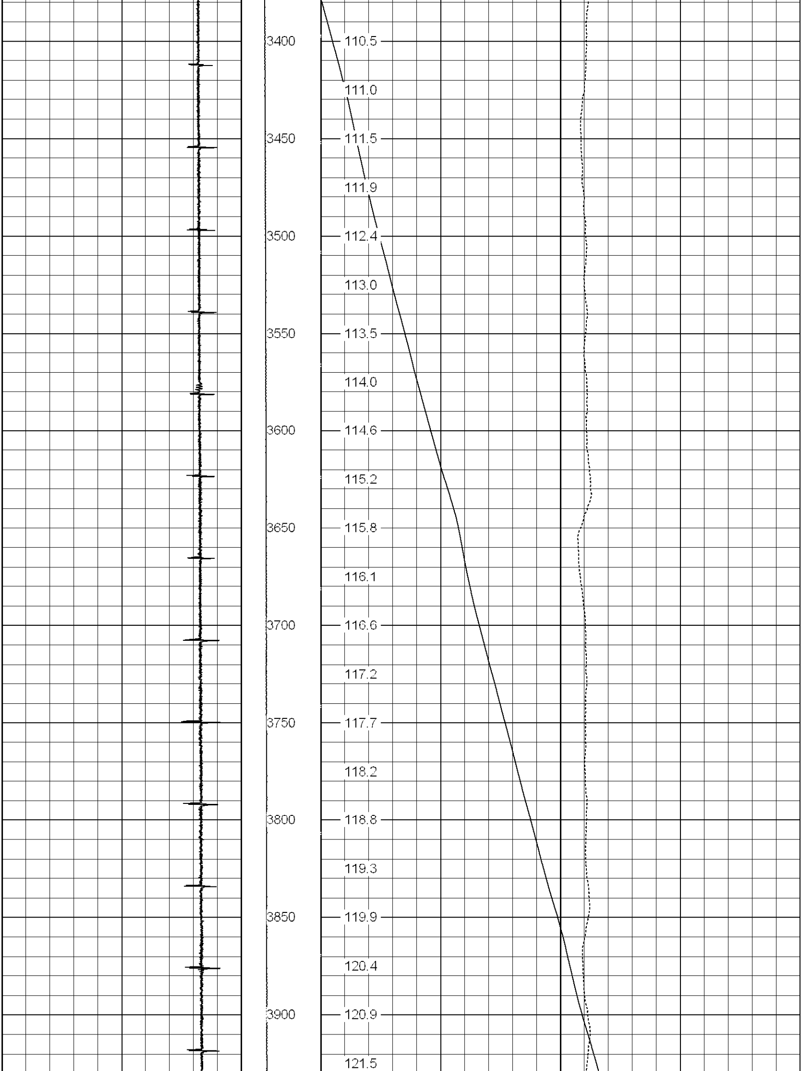
TEMP PASS

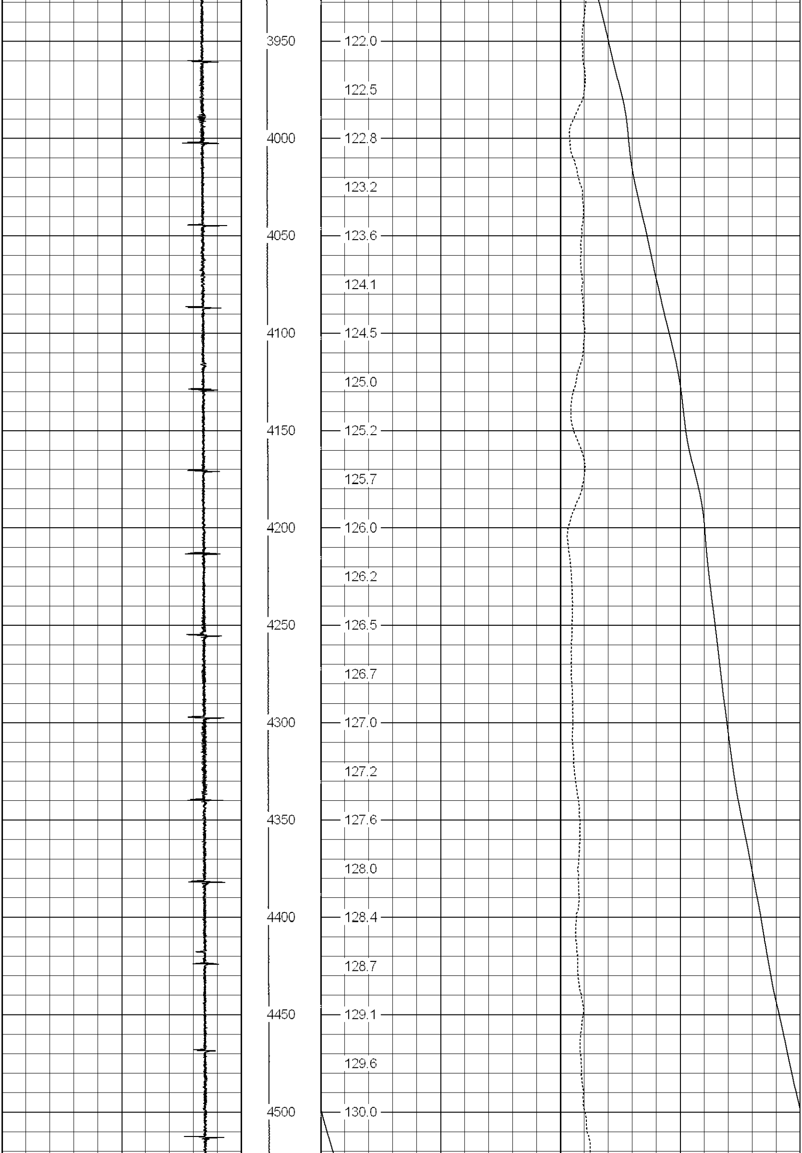
Database File:	090810_barrett_ggu_fed_21d_33.db
Dataset Pathname:	temp/pass2.1
Presentation Format:	RMWS_T~1
Dataset Creation:	Wed Sep 08 20:46:40 2010
Charted by:	Depth in Feet scaled 1:600

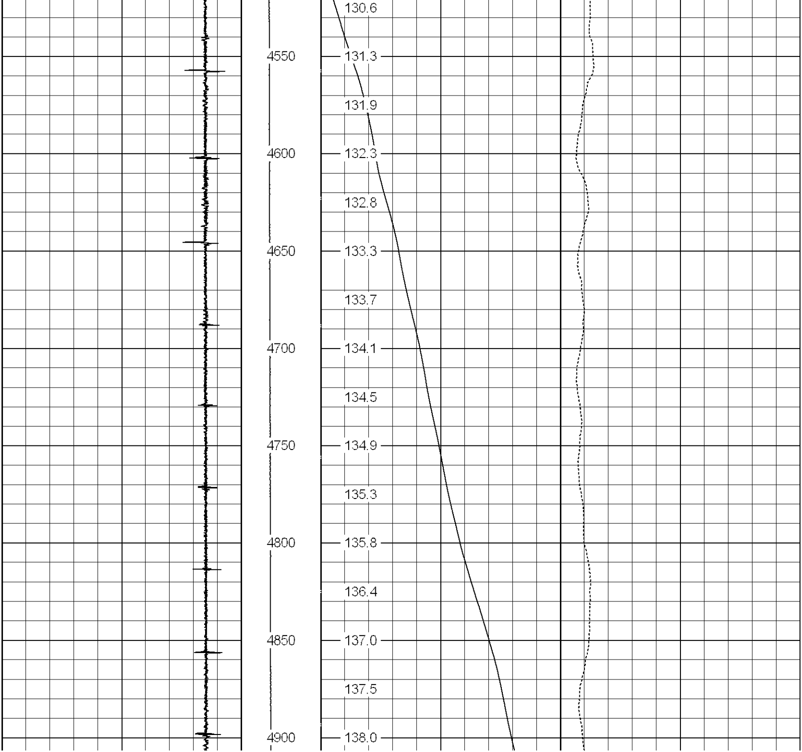
16500 CCL 19100	LTEN	70 TEMP (degF) 90
	0 (lb)2000	-0.2 DTMP (degF) 0.2
		TEMP (degF)



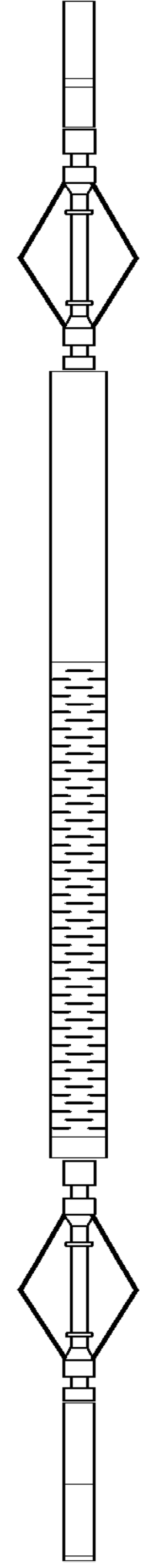








TEMP PASS



Sensor	Offset (ft)	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	19.00	CCL-015 (217601) Casing Collar Locator	1.54	1.69	9.00
		PRC-062 (C-1099) 4ARM 2 3/4" ROLLER	2.90	2.75	34.00
WVF3FT WVFS1 WVFS2 WVFS3 WVFS4 WVFS5 WVFS6 WVFS7 WVFS8 CBLTEMP CBLROT WVF5FT	11.22 11.22 11.22 11.22 11.22 11.22 11.22 11.22 11.22 11.22 11.22 10.22	RBT-004 (1123) Radial Bond Tool (UW 3 1/8)	9.47	3.13	140.00
		PRC-062 (C-1100) 4ARM 2 3/4" ROLLER	2.90	2.75	34.00
GR	1.76	PGR-020 (217693) 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:	090810_barrett_ggu_fed_21d_33.db: field/well/main/pass1.2
Total Length:	22.62 ft
Total Weight:	242.20 lb
O.D.	3.13 in

Company	BILL BARRETT CORPORATION
Well	GGU FEDERAL 21D - 33 - 691
Field	GIBSON GULCH
County	GARFIELD
State	COLORADO