RMWS
ROCKY MOUNTAIN WIRELINE SERVICE

CEMENT BOND LOG
GAMMA RAY \ CCL
TEMPERATURE

Company BILL BARRETT CORPORATION
Well KAUFMAN 22B - 25 - 692
Field MAMM CREEK
County GARFIELD State COLORADO
Location: API #: 05-045-19658
SHL: 2181' FSL & 1641' FWL
BHL: 2135' FNL & 1980' FWL
SEC 25 TWP 6S RGE 92W
Other Services: 3.75" GAUGE RING

Permanent Datum	G.L.	Elevation	5922'
Log Measured From	K.B.	Ft Above PD	23'
Drilling Measured From	K.B.		

Elevation
K.B. 5945'
D.F. 5944'
G.L. 5922'

Date	07 - 29 - 2011	
Run Number	ONE	
Depth Driller	7619'	
Present Depth Driller	N/A	
Depth Logger	7548'	
Bottom Logged Interval	7547'	
Top Log Interval	3600'	
Fluid Level	SURFACE	
Type Fluid	WATER	
Max. Recorded Temp.	210.6° F	
Estimated Cement Top	4260'	
Equipment Number	208	
Location	GRAND JCT.	
Recorded By	INRGAM	HANNA
Witnessed By	MR. ETTER	

Run Number	Borehole Record Bit	From	To	Casing Record Size	Weight	From	To
ONE	8.750"	810'	5710'	9.625"	36 #	SURFACE	810'
TWO	7.880"	5710'	7619'	4.5"	11.6#	SURFACE	7619'

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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 07 - 17 - 2011
SHORT JOINTS: 4849' - 4882' & 6346' - 6378'
MAIN PASS 5" = 100'
TEMP. PASS 2' = 100'
CSG PSI = STATIC

Calibration Report

Database File: 072911_barrett_kaufman_22b_25_692.db
Dataset Pathname: MAIN/pass1.2
Dataset Creation: Fri Jul 29 16:46:42 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: 1123
Tool Model: 004

Calibration Casing Diameter: 4.500 in
Calibration Depth: 326.087 ft

Master Calibration, performed Fri Jul 29 16:45:15 2011:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3FT	-0.030	0.941	1.000	81.196	82.606	3.495
5FT	-0.008	0.984	1.000	81.196	80.851	1.675
S1	-0.065	1.010	0.000	100.000	93.030	6.060
S2	-0.066	1.012	0.000	100.000	92.758	6.085
S3	-0.057	0.968	0.000	100.000	97.597	5.561
S4	-0.056	0.937	0.000	100.000	100.726	5.655
S5	-0.043	0.925	0.000	100.000	103.327	4.463
S6	-0.035	0.935	0.000	100.000	103.175	3.563
S7	-0.049	0.950	0.000	100.000	100.057	4.901
S8	-0.056	0.954	0.000	100.000	99.047	5.499

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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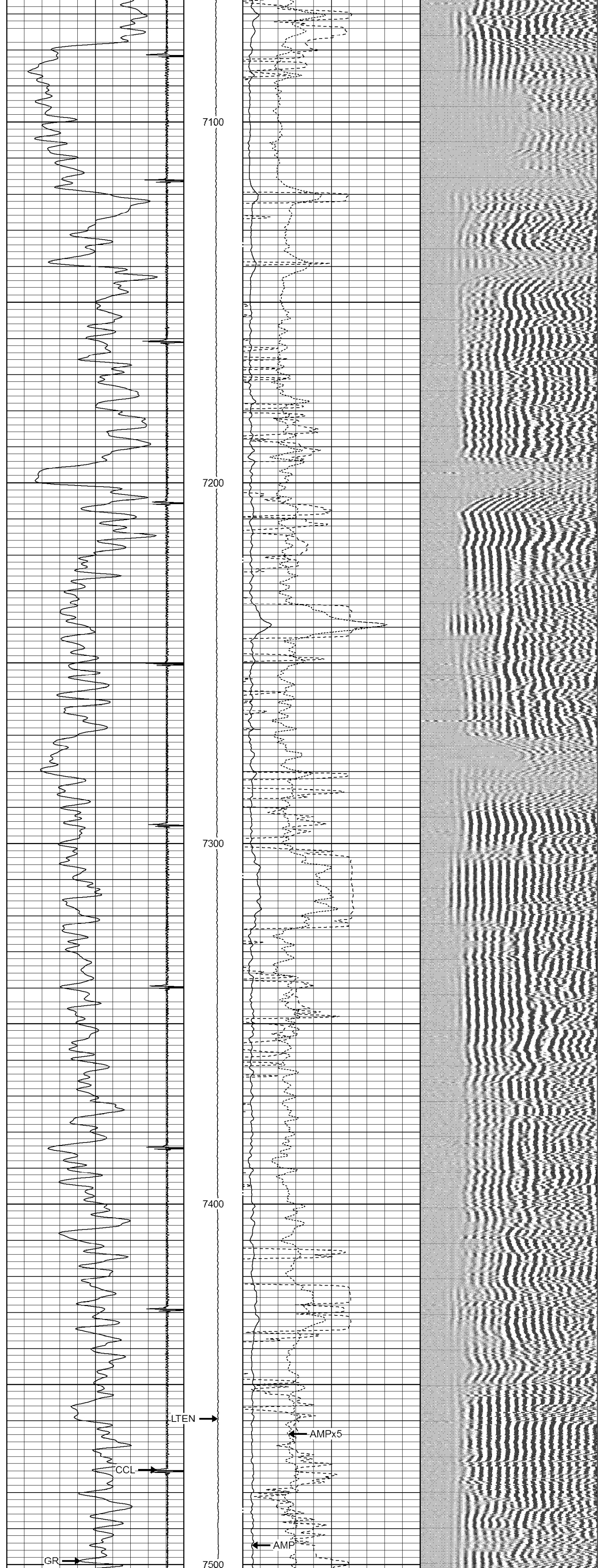
MAIN PASS

Database File: 072911_barrett_kaufman_22b_25_692.db
Dataset Pathname: MAIN/pass1.2
Presentation Format: rmws_dsc
Dataset Creation: Fri Jul 29 16:46:42 2011 by Calc Std Casedhole 10121
Charted by: Depth in Feet scaled 1:240



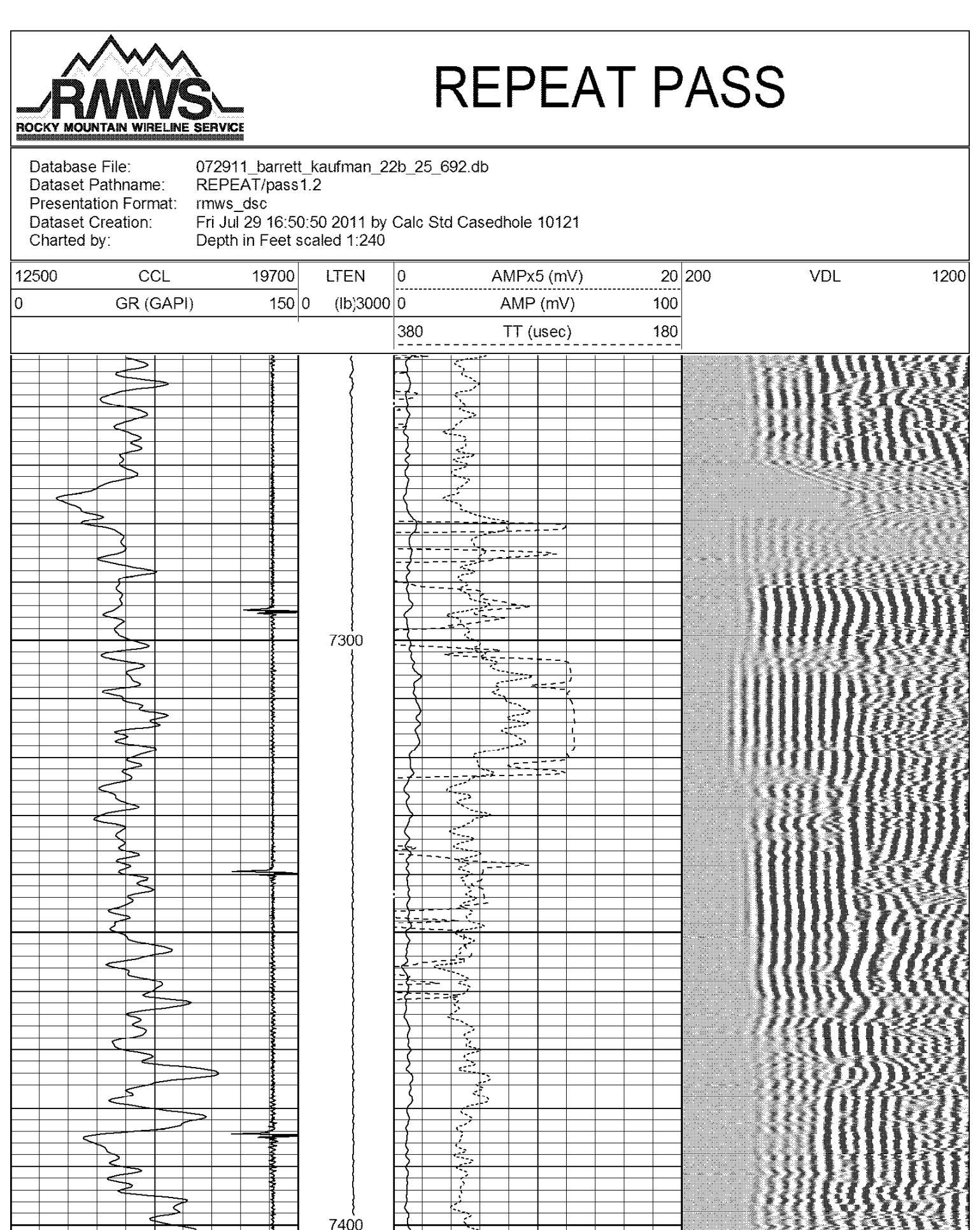
12500 CCL 19700 | LTEN | 0 AMPx5 (mV) 20 | 200 VDL 1200
0 GR (GAPI) 150 | 0 (lb)3000 | 0 AMP (mV) 100
380 TT (usec) 180

REPEAT PASS

RMWS ROCKY MOUNTAIN WIRELINE SERVICE

Database File:	072911_barrett_kaufman_22b_25_692.db
Dataset Pathname:	REPEAT/pass1.2
Presentation Format:	rmws_dsc
Dataset Creation:	Fri Jul 29 16:50:50 2011 by Calc Std Casedhole 10121
Charted by:	Depth in Feet scaled 1:240

12500 CCL 19700 | LTEN | 0 AMPx5 (mV) 20 | 200 VDL 1200
0 GR (GAPI) 150 | 0 (lb)3000 | 0 AMP (mV) 100
380 TT (usec) 180



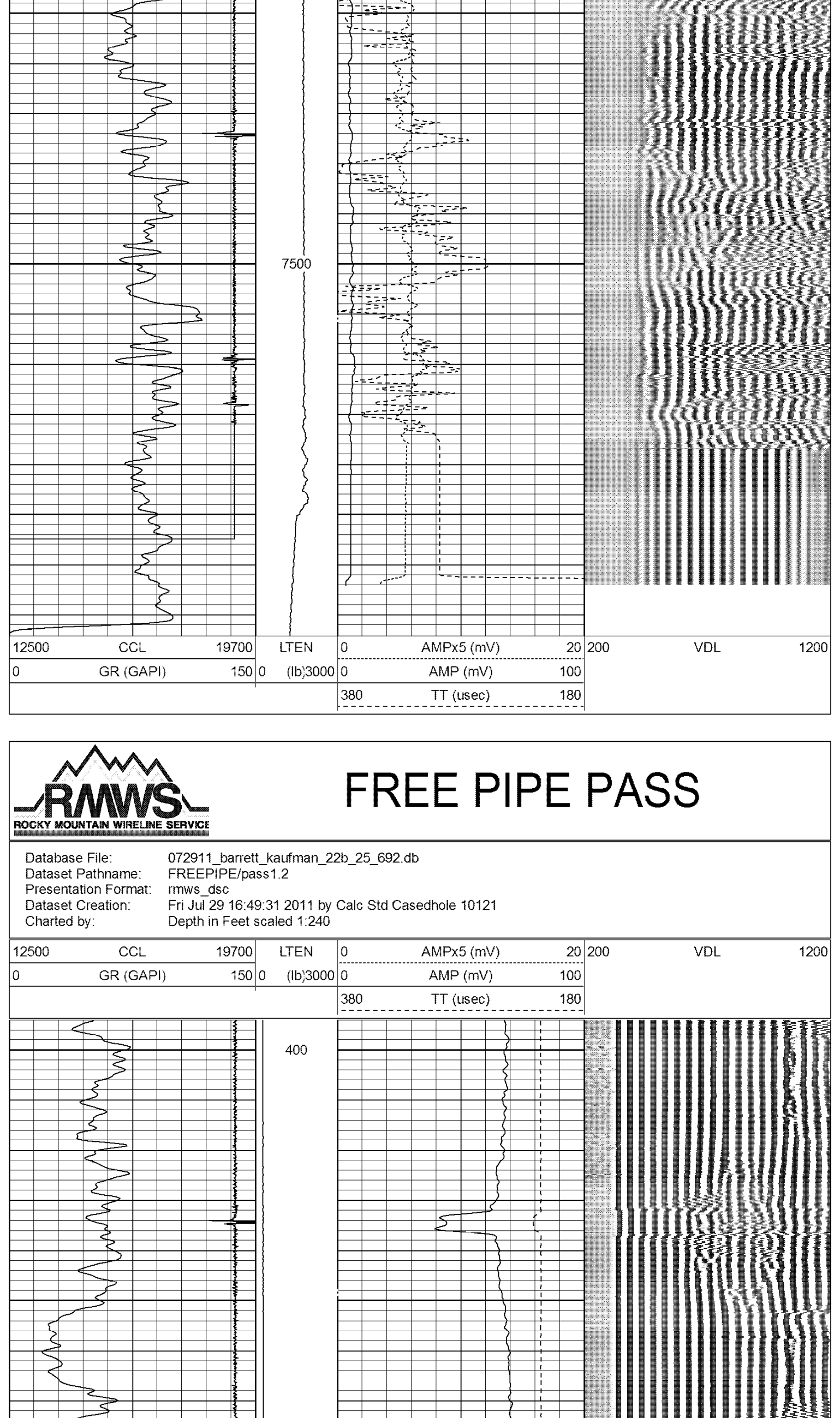
12500 CCL 19700 | LTEN | 0 AMPx5 (mV) 20 | 200 VDL 1200
0 GR (GAPI) 150 | 0 (lb)3000 | 0 AMP (mV) 100
380 TT (usec) 180

FREE PIPE PASS

RMWS ROCKY MOUNTAIN WIRELINE SERVICE

Database File:	072911_barrett_kaufman_22b_25_692.db
Dataset Pathname:	FREEPIPE/pass1.2
Presentation Format:	rmws_dsc
Dataset Creation:	Fri Jul 29 16:49:31 2011 by Calc Std Casedhole 10121
Charted by:	Depth in Feet scaled 1:240

12500 CCL 19700 | 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 19700 | LTEN | 0 AMPx5 (mV) 20 | 200 VDL 1200
0 GR (GAPI) 150 | 0 (lb)3000 | 0 AMP (mV) 100
380 TT (usec) 180

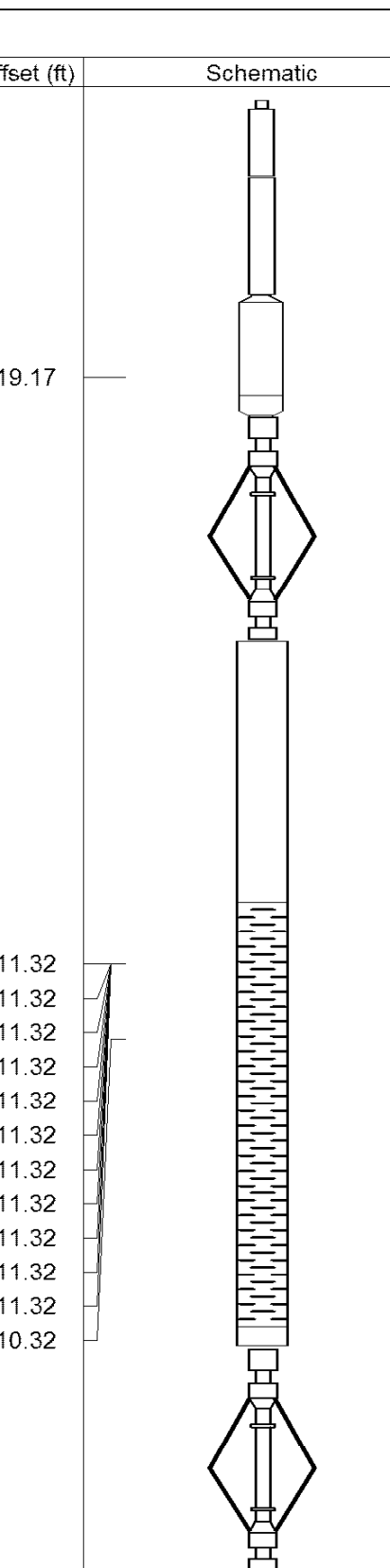
TEMP PASS

RMWS ROCKY MOUNTAIN WIRELINE SERVICE

Database File:	072911_barrett_kaufman_22b_25_692.db
Dataset Pathname:	MAIN/pass1.1
Presentation Format:	RMWS_T~1
Dataset Creation:	Fri Jul 29 16:23:38 2011
Charted by:	Depth in Feet scaled 1:600

14000 CCL 19700 | LTEN | 70 TEMP (degF) 90
0 (lb)3000 | -0.2 DTMP (degF) 0.2
TEMP (degF)

14000 CCL 19700 | LTEN | 70 TEMP (degF) 90
0 (lb)3000 | -0.2 DTMP (degF) 0.2
TEMP (degF)

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	19.17		CCL-028 (1037) CCL UW 3 1/8" SONDEX	1.61	3.13	36.00
			PRC-022 (215770) (6 ARM 2 3/8" ROLLER CENTRALIZER SONDEX)	3.00	2.38	21.40
WVF3FT WVFS1 WVFS2 WVFS3 WVFS4 WVFS5 WVFS6 WVFS7 WVFS8 CBLTEMP CBLROT WVF5FT	11.32 11.32 11.32 11.32 11.32 11.32 11.32 11.32 11.32 11.32 11.32 10.32		RBT-004 (1123) Radial Bond Tool (UW 3 1/8)	9.47	3.13	140.00
			PRC-022 (215771) (6 ARM 2 3/8" ROLLER CENTRALIZER SONDEX)	3.00	2.38	21.40
GR	1.76		PGR-020 (217692) Production Gamma Ray	1.93	1.69	9.50
TEMP TSTAMP ITEMPX	0.37 0.00 0.00		PRT-016 (216611) Platinum Resistance Thermometer	1.04	1.69	6.00
HVOLTX	0.00		BUL-006 (212965) Bullnose Terminator	0.22	1.69	1.20

Dataset:	072911_barrett_kaufman_22b_25_692.db: field/well/MAIN/pass1.2
Total Length:	22.90 ft
Total Weight:	244.00 lb
O.D.	3.13 in

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Company	BILL BARRETT CORPORATION
Well	KAUFMAN 22B - 25 - 692
Field	MAMM CREEK
County	GARFIELD
State	COLORADO