WARRIOR Energy Services Corp.

CEMENT BOND
GAMMA RAY
CCL LOG

Company	EOG RESOURCES
Well	CRITTER CREEK 13-17H
Field	HEREFORD
County	WELD
State	CO

Company EOG RESOURCES

Well CRITTER CREEK 13-17H

Field HEREFORD

County WELD State CO

Location: API # : 05-123-31442

SHL: 501' FSL & 501 FEL

SEC 17 TWP 11N RGE 63W

Other Services: N/A

Permanent Datum	GROUND LEVEL Elevation 5281	Elevation K.B. 5303 D.F. 5302' G.L. 5281'
Log Measured From	KB @ 22'	
Drilling Measured From	KB	

Date	10-JULY-2011		
Run Number	ONE		
Depth Driller	12775'		
Depth Logger	6950'		
Bottom Logged Interval	6950'		
Top Log Interval	SURFACE		
Open Hole Size	N/A		
Type Fluid	N/A		
Density / Viscosity	N/A		
Max. Recorded Temp.	N/A		
Estimated Cement Top	SEE LOG		
Time Well Ready	3:00 PM		
Time Logger on Bottom	3:45 PM		
Equipment Number	5620		
Location	ROCK SPRINGS		
Recorded By	B.PANGALLO		
Witnessed By	MR.PHILO		

Borehole Record			Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	9625"	36	SURFACE	1340'
Prot. String				
Production String	7	23	SURFACE	9600'
Liner	4.5"	11.6	9600'	12777'

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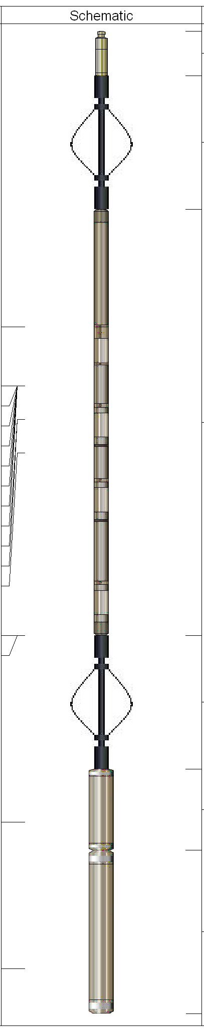
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

Comments

LOG CORRELATED TO WIRE LINE MEASURMENT

Sensor	Offset (ft)
TEMP	15.39
WVFS1	14.06
WVFS2	14.06
WVFS3	14.06
WVFS4	14.06
WVFS5	14.06
WVFS6	14.06
WVFS7	14.06
WVFS8	14.06
WVF3FT	13.31
WVFCAL	13.31
WVF5FT	12.56
WVFTEMP	8.47
WVFSYNC	8.47
CCL	4.29
GR	1.00



Description	Len (ft)	OD (in)	Wt (lb)
CHD1_0	1.00	1.00	1.00
LTEC-1.68 LTEC Six Arm	3.00	1.69	15.00
SCBL100T-Tekco101T (101T-013) Tekco 2 3/4" Sector Bond Temp (Oil Filled)	9.54	1.69	102.00
LTEC-1.68 LTEC Six Arm	3.00	1.69	15.00
CCL-Tekco105 (105-004)	1.81	2.75	15.00
GR-Tekco110 (110-004)	3.66	2.75	25.00

Dataset:	eogcrittercreek13-17h.db: field/well/run1/pass12
Total Length:	22.02 ft
Total Weight:	173.00 lb
O.D.	2.75 in

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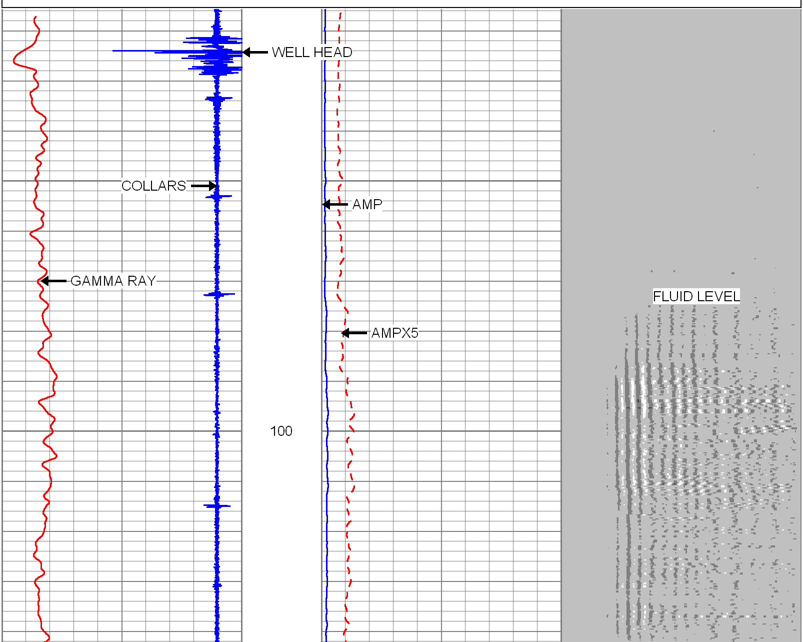
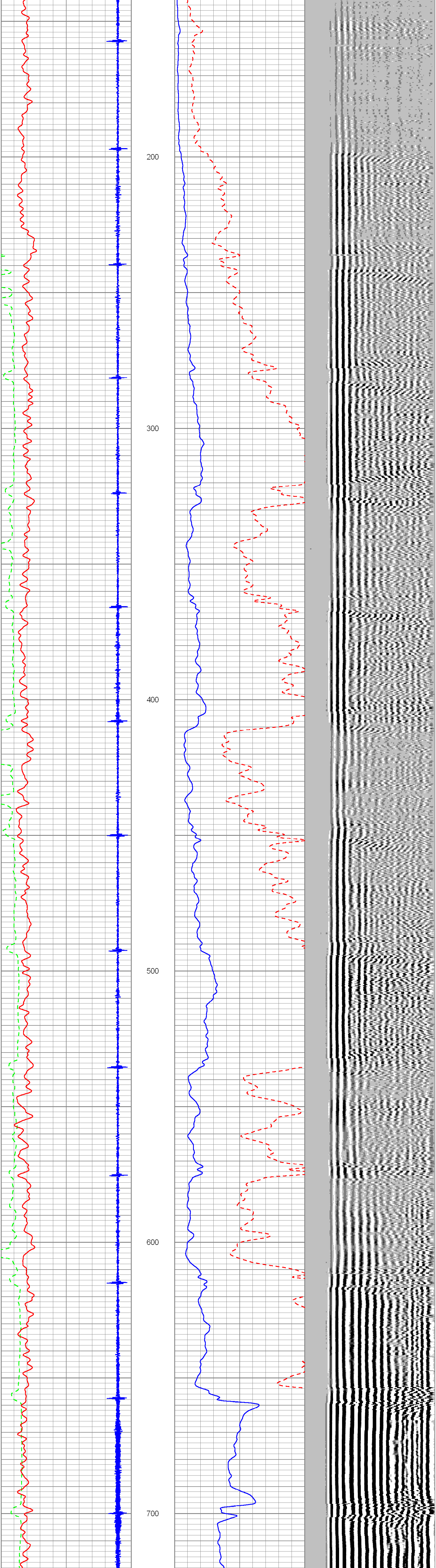
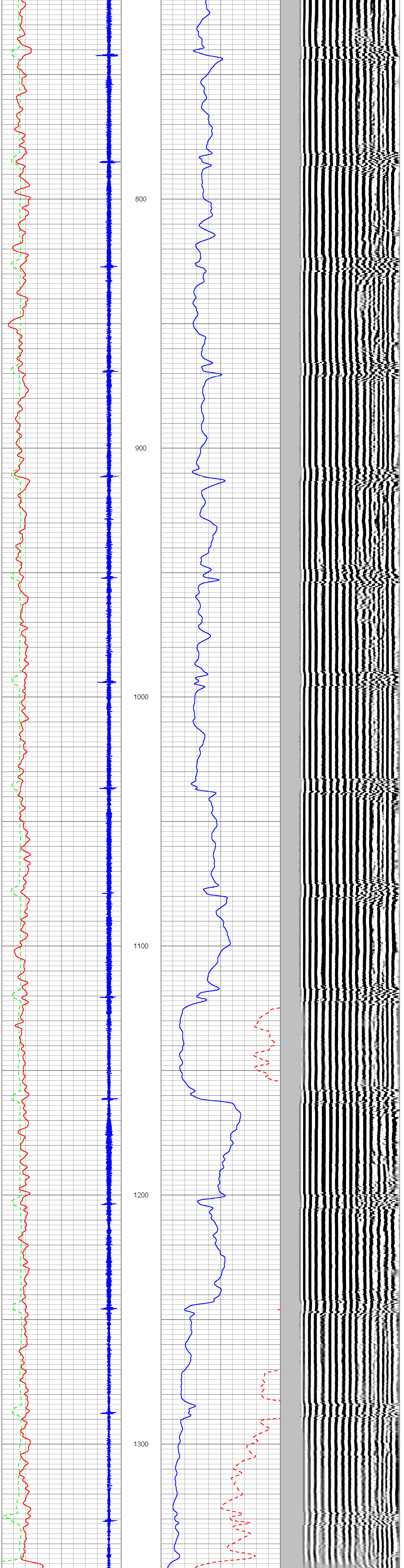
SURFACE PASS

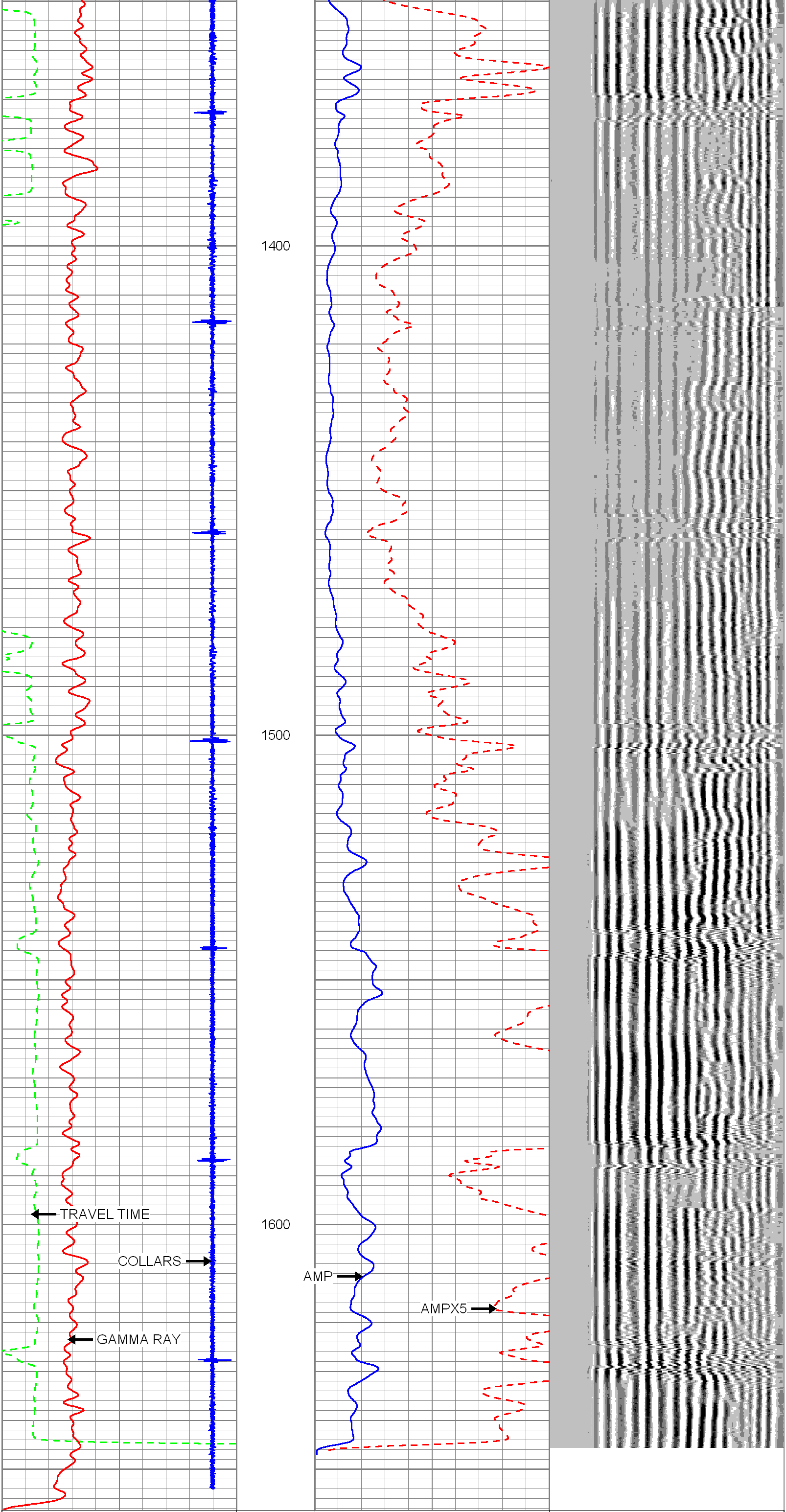
Database File:	eogcrittercreek13-17h.db
Dataset Pathname:	pass12
Presentation Format:	5scbldbc
Dataset Creation:	Sun Jul 10 16:45:07 2011 by Log Std Casedhole 09061
Charted by:	Depth in Feet scaled 1:240

290	TRAVEL TIME (usec)	190	0	AMPX5 (mV)	20	200	WVF5FT 1200
9	COLLARS	-1	0	AMP (mV)	100		
0	GAMMA RAY (GAPI)	150					









290	TRAVEL TIME (usec)	190	0	AMPX5 (mV)	20	200	WVF5FT	1200
9	COLLARS	-1	0	AMP (mV)	100			
0	GAMMA RAY (GAPI)	150						

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SURFACE PASS

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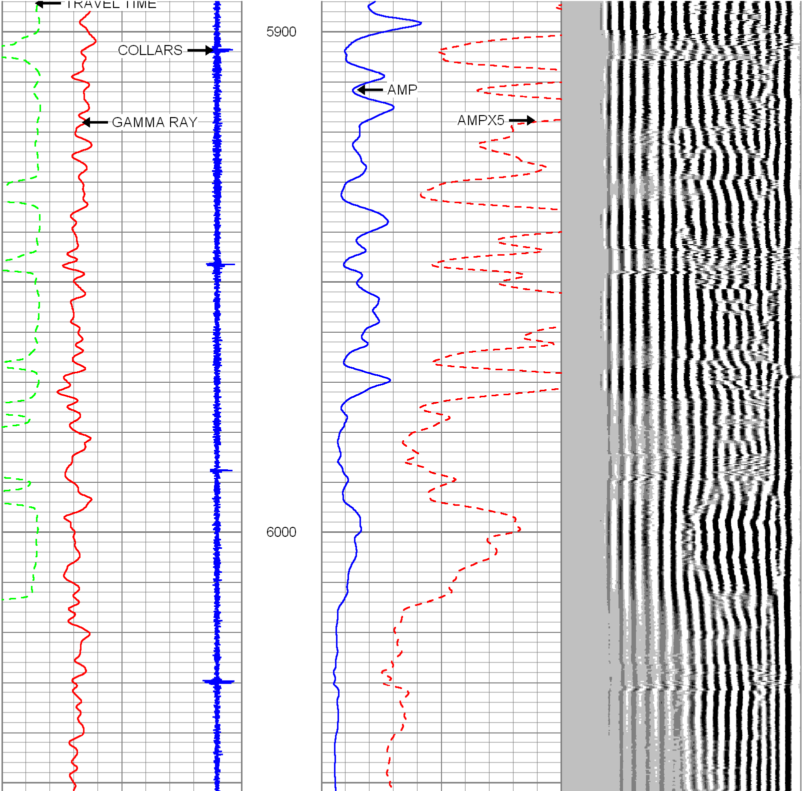
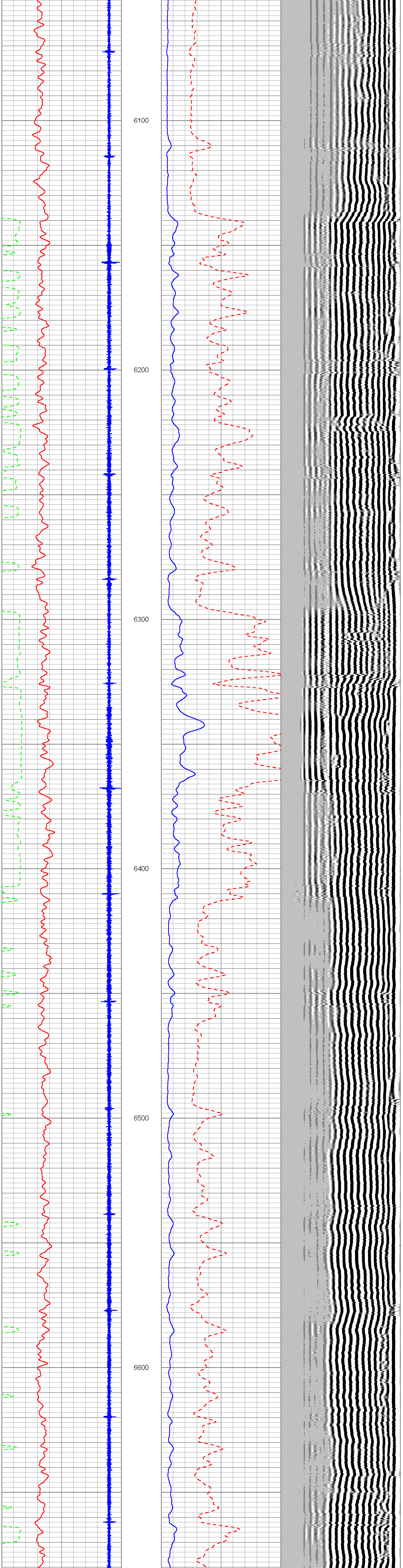
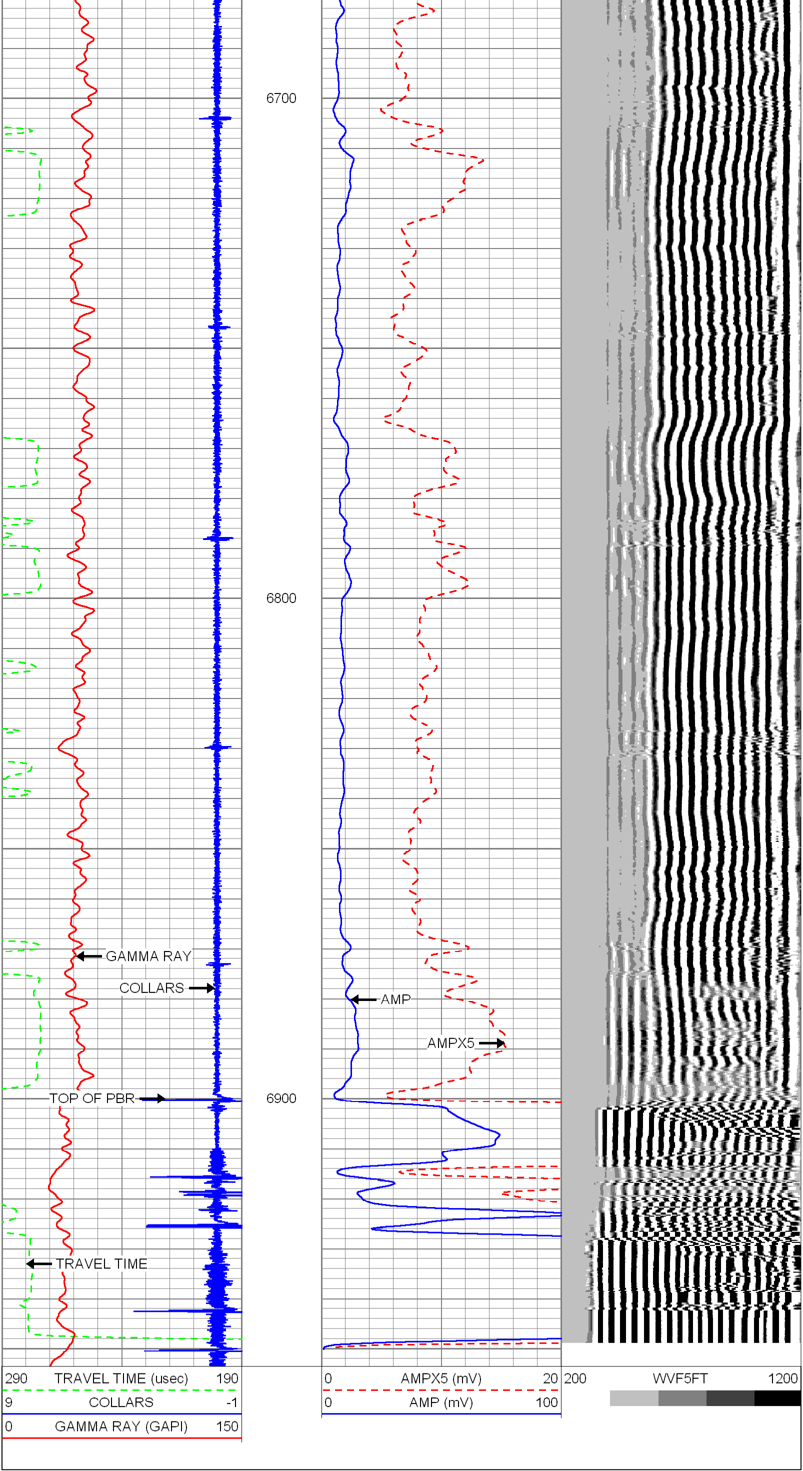
MAIN PASS

Database File: eogcrittercreek13-17h.db
Dataset Pathname: pass11
Presentation Format: 5scbldbc
Dataset Creation: Sun Jul 10 15:55:46 2011 by Log Std Casedhole 09061
Charted by: Depth in Feet scaled 1:240

290	TRAVEL TIME (usec)	190	0	AMPX5 (mV)	20	200	WVF5FT	1200
9	COLLARS	-1	0	AMP (mV)	100			
0	GAMMA RAY (GAPI)	150						







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MAIN PASS

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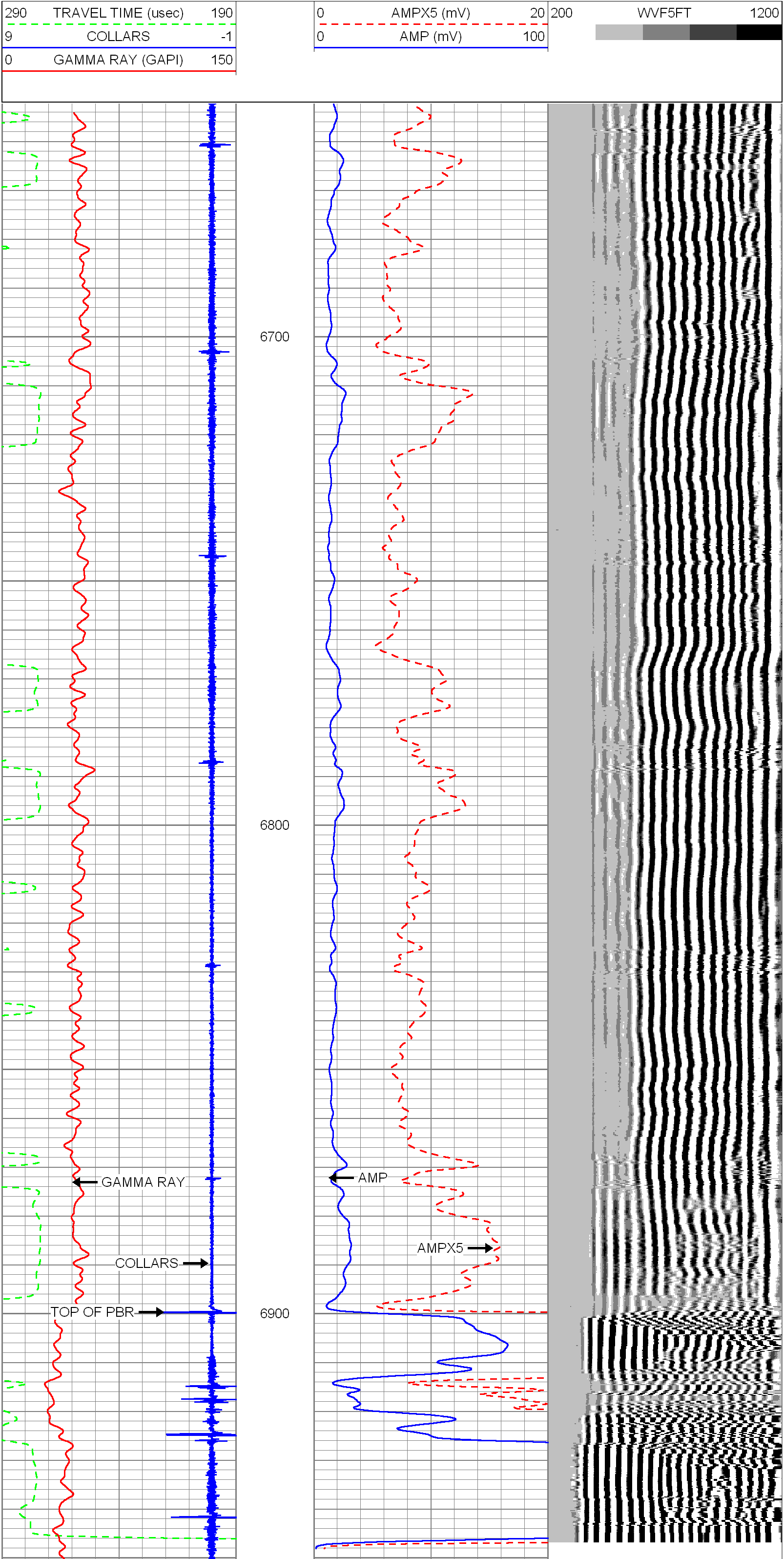
REPEAT PASS

Database File: eogcrittercreek13-17h.db
Dataset Pathname: pass10
Presentation Format: 5scbldbc
Dataset Creation: Sun Jul 10 15:44:36 2011 by Log Std Casedhole 09061
Charted by: Depth in Feet scaled 1:240



290	TRAVEL TIME (usec)	190	0	AMPX5 (mV)	20	200	WVF5FT	1200
9	COLLARS	-1	0	AMP (mV)	100		▒ ▓ █	
0	GAMMA RAY (GAPI)	150						

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REPEAT PASS

Calibration Report

Database File: eogcrittercreek13-17h.db
Dataset Pathname: pass11
Dataset Creation: Sun Jul 10 15:55:46 2011 by Log Std Casedhole 09061

Gamma Ray Calibration Report

Serial Number:	110-004	
Tool Model:	Tekco110	
Performed:	Sun Jun 05 08:04:23 2011	
Calibrator Value:	100.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	200.0	cps
Sensitivity:	0.5000	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	101T-013	
Tool Model:	Tekco101T	
Calibration Casing Diameter:	7.000	in
Calibration Depth:	723.747	ft

Master Calibration, performed Sun Jul 10 15:23:27 2011:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.003	1.199	1.000	62.165	51.137	0.860
CAL	0.003	0.002				
5'	0.003	0.720	1.000	62.165	85.270	0.771
SUM						
S1	0.003	0.898	0.000	90.000	100.513	-0.291
S2	0.003	0.862	0.000	90.000	104.753	-0.297
S3	0.003	0.816	0.000	90.000	110.746	-0.315
S4	0.003	0.912	0.000	90.000	99.030	-0.294
S5	0.003	1.070	0.000	90.000	84.355	-0.253
S6	0.003	1.217	0.000	90.000	74.099	-0.203
S7	0.003	1.131	0.000	90.000	79.797	-0.227
S8	0.003	1.083	0.000	90.000	83.347	-0.227

Internal Reference Calibration, performed Mon Apr 18 10:39:29 2011:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.003	0.002	1.000	0.000

Air Zero Calibration, performed Wed Apr 20 10:47:17 2011:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.000	0.000	0.000
5'	0.000	0.000	0.000
SUM			
S1	0.000	0.000	0.000
S2	0.000	0.000	0.000
S3	0.000	0.000	0.000
S4	0.000	0.000	0.000
S5	0.000	0.000	0.000
S6	0.000	0.000	0.000
S7	0.000	0.000	0.000
S8	0.000	0.000	0.000

Temperature Calibration Report

Serial Number: 101T-013

Serial Number:	101T-015			
Tool Model:	Tekco101T			
Performed:	Sun Jun 13 13:33:21 1993			
	Reference		Reading	
Low Reference:	0.00	degF	0.00	usec
High Reference:	1.00	degF	1.00	usec
Gain:	1.00			
Offset:	0.00			
Delta Spacing	1			

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State	CO