ROCKY MOUNTAIN WIRELINE SERVICE

CEMENT BOND LOG
GAMMA RAY / CCL

Company	**BERRY PETROLEUM COMPANY**
Well	**CHEVRON 19 - 21D**
Field	**GRAND VALLEY**
County	**GARFIELD** State **COLORADO**

Location: API # : 05 - 045 - 19591 - 0000

0423' FNL & 1373' FWL

SEC 19 TWP 5S RGE 96W

Other Services

Permanent Datum	G.L.	Elevation	8536'	
Log Measured From	K.B.	Ft Above PD	23'	
Drilling Measured From	K.B.			

Elevation
K.B. 8561'
D.F. 8560'
G.L. 8538'

Date	09 - 21 - 2011		
Run Number	ONE		
Depth Driller	10140'		
Present Depth Driller	8968'		
Depth Logger	8968'		
Bottom Logged Interval	8967'		
Top Log Interval	7500'		
Fluid Level	900'		
Type Fluid	WATER		
Max. Recorded Temp.	NA		
Estimated Cement Top	SEE LOG		
Equipment Number	208		
Location	GRAND JCT.		
Recorded By	INGRAM		
Witnessed By	MR. MICKEY	BASIC (1528)	

Borehole Record				Casing Record			
Run Number	Bit	From	To	Size	Weight	From	To
				4.5"	11.6#	SURFACE	10140'

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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 SCHLUMBERGER CBL 7-21-2010
MAIN PASS 5" = 100'
CSG PSI = STATIC

Calibration Report

Database File: 092111_berrypet_chevron_19_21d.db
Dataset Pathname: main/pass1.1
Dataset Creation: Wed Sep 21 09:37:40 2011 by Calc Std Casedhole 10121

Gamma Ray Calibration Report

Serial Number:	TEKCO234_314	
Tool Model:	TEKCO234	
Performed:	Fri Aug 22 09:46:25 2008	
Calibrator Value:	1.0	
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	/cps

CBL Calibration Report

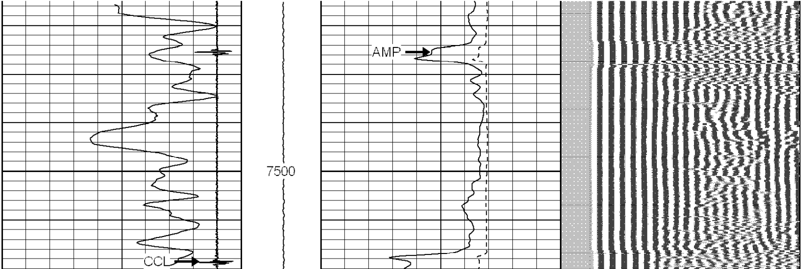
Serial Number:	TEKCO_8010		
Tool Model:	TEKCO		
Performed:	Wed Sep 21 09:36:47 2011		
Depth:	1537.983	ft	
Casing Diameter:	4.500	in	
	3' Spacing	5' Spacing	
Signal Zero:	1.000	1.000	mV
Calibrated Amplitude:	81.196	81.196	mV
Reading at Signal Zero:	-0.015	-0.016	V
Reading in Free Pipe:	1.159	1.201	V
Gain:	68.325	65.895	
Offset:	2.023	2.047	

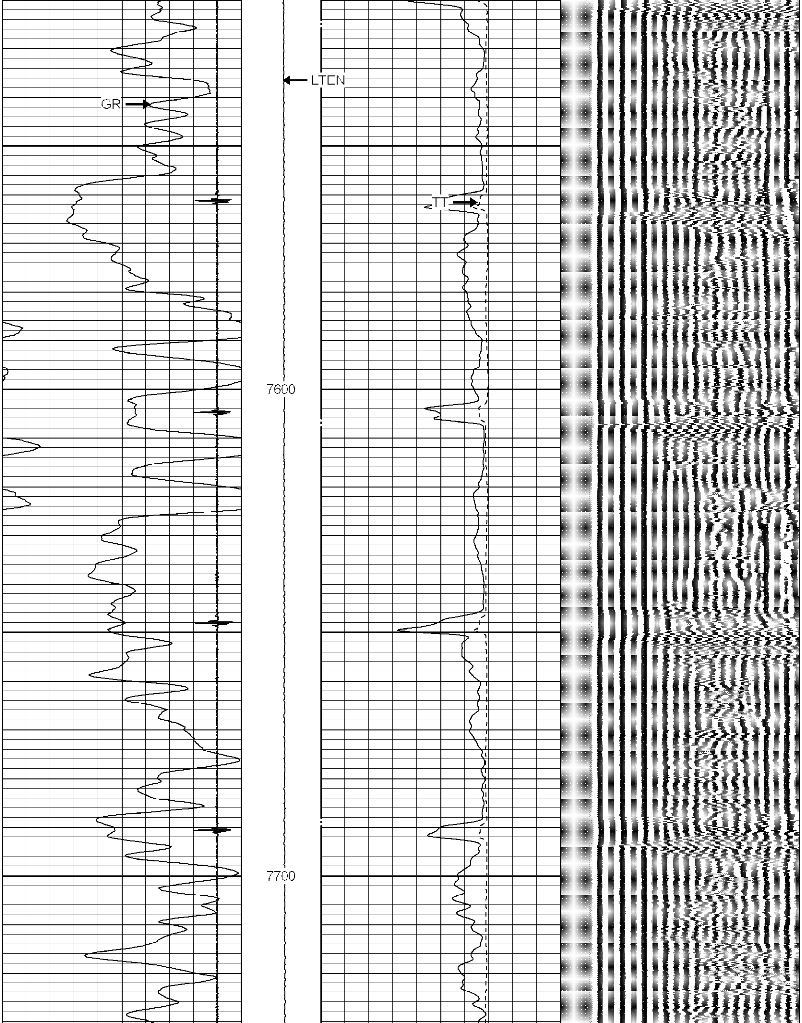
ROCKY MOUNTAIN WIRELINE SERVICE

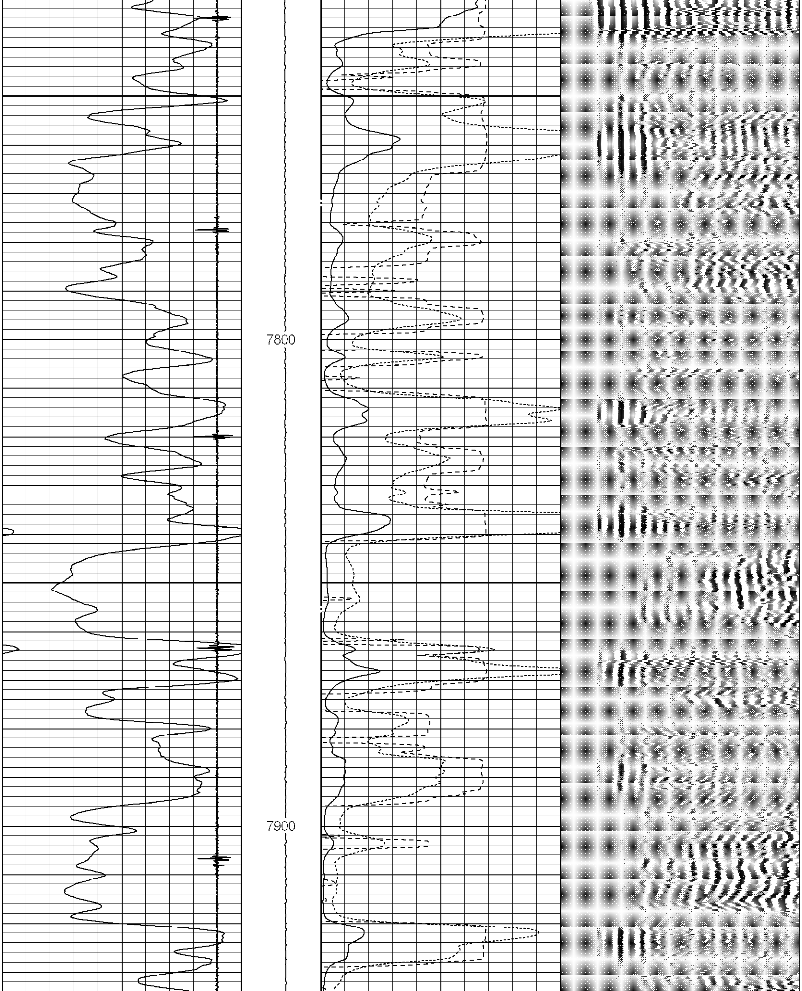
MAIN PASS

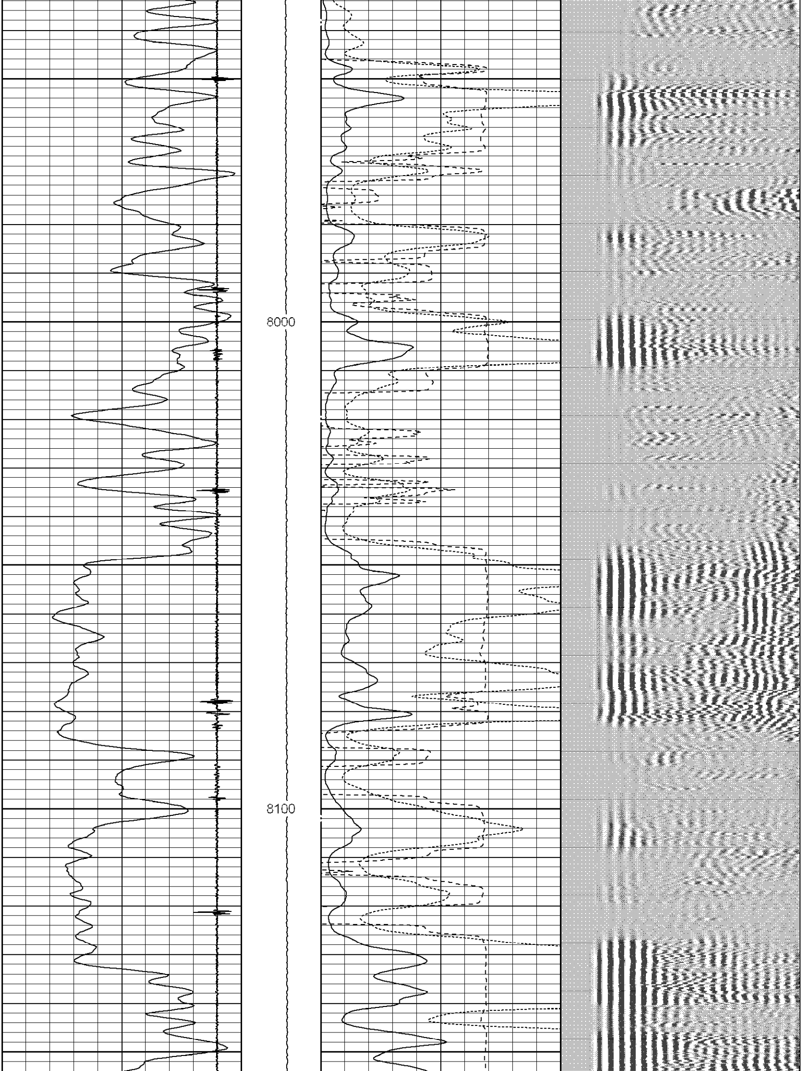
Database File: 092111_berrypet_chevron_19_21d.db
Dataset Pathname: main/pass1.1
Presentation Format: rmws_dsc
Dataset Creation: Wed Sep 21 09:37:40 2011 by Calc Std Casedhole 10121
Charted by: Depth in Feet scaled 1:240

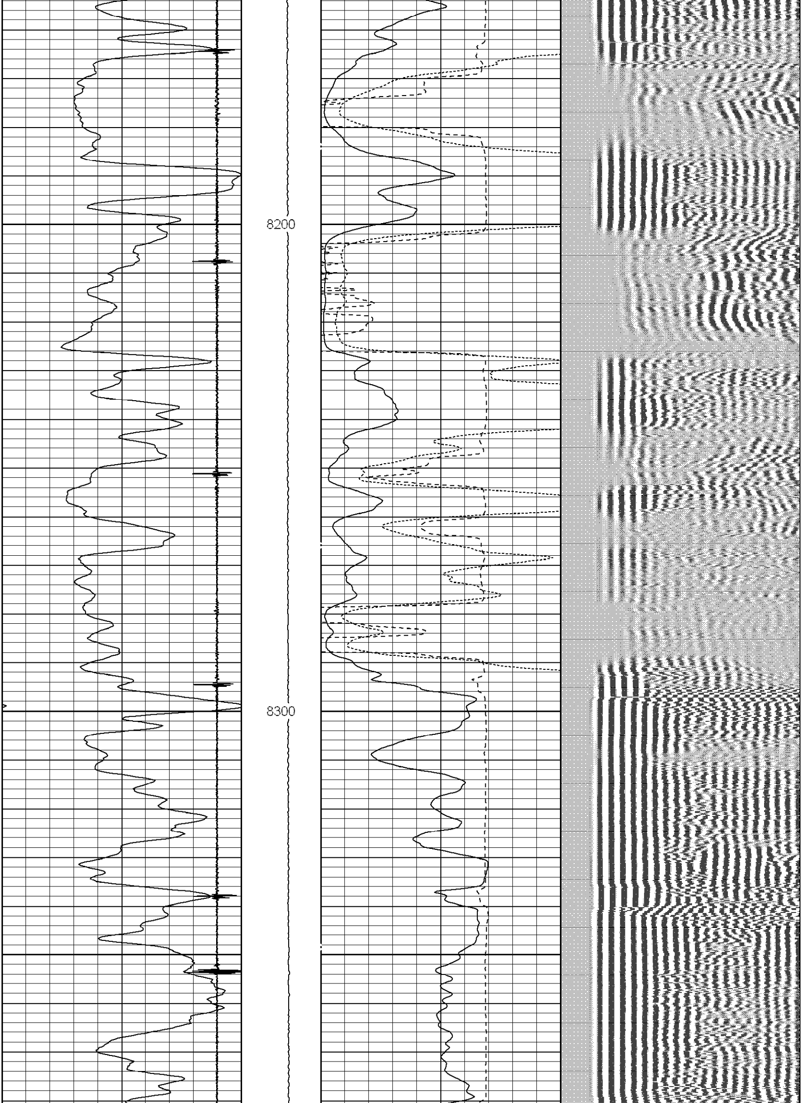
-27 CCL 3	LTEN	0 AMPx5 (mV) 20	200 VDL 1200
0 GR 150	0 (lb)3000	0 AMP (mV) 100	
		380 TT (usec) 180	

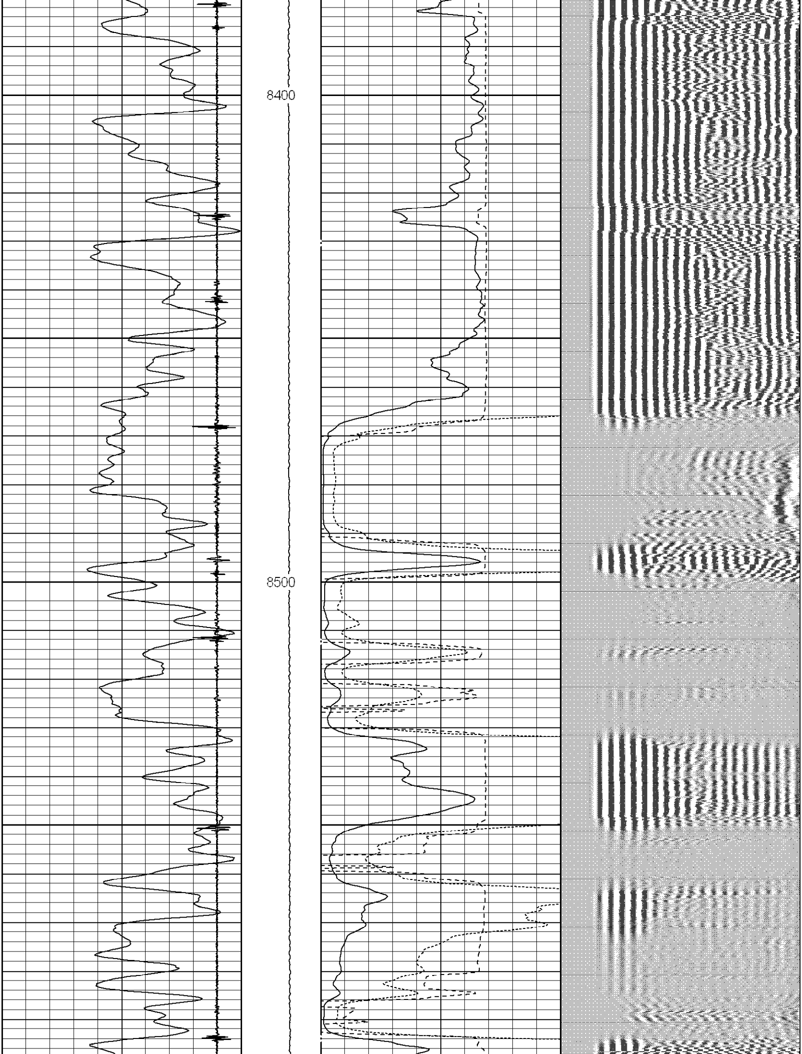


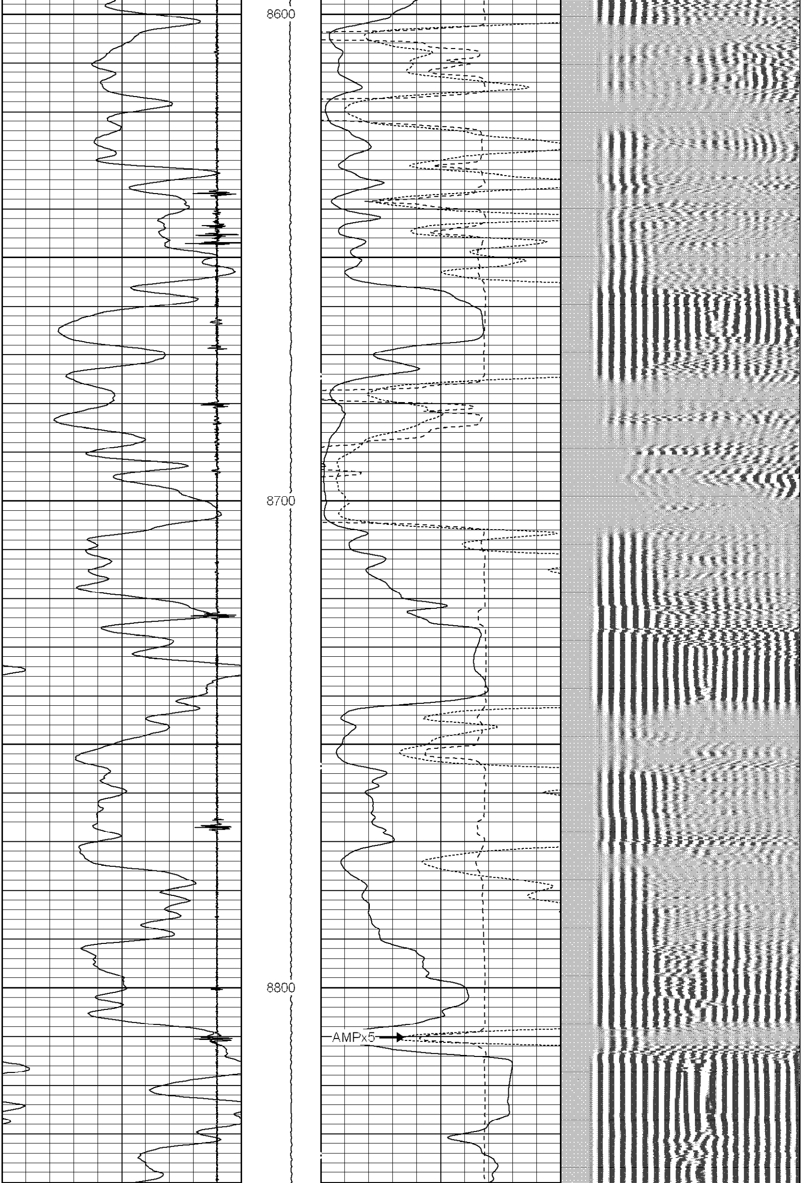


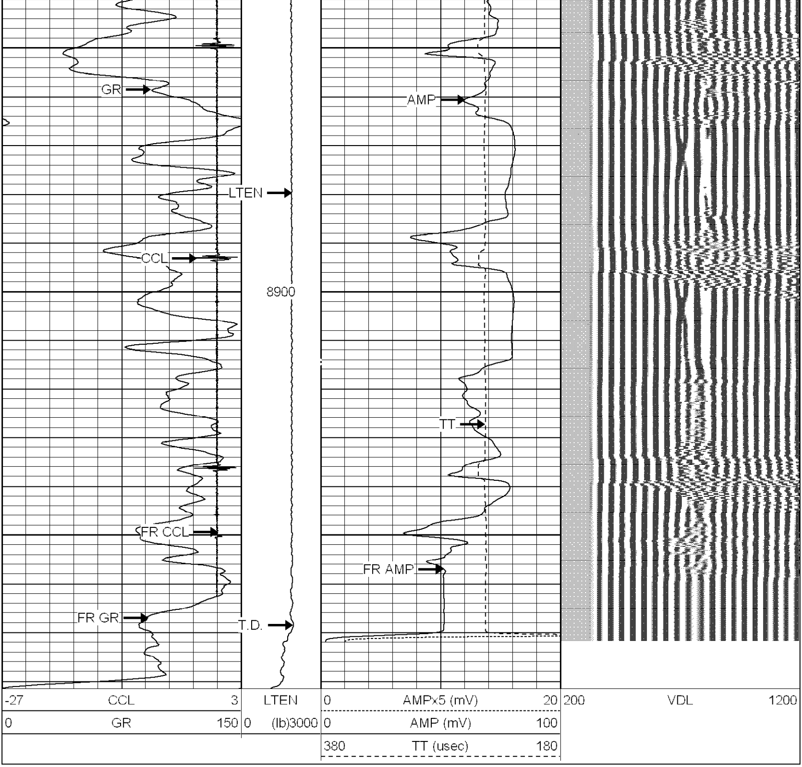








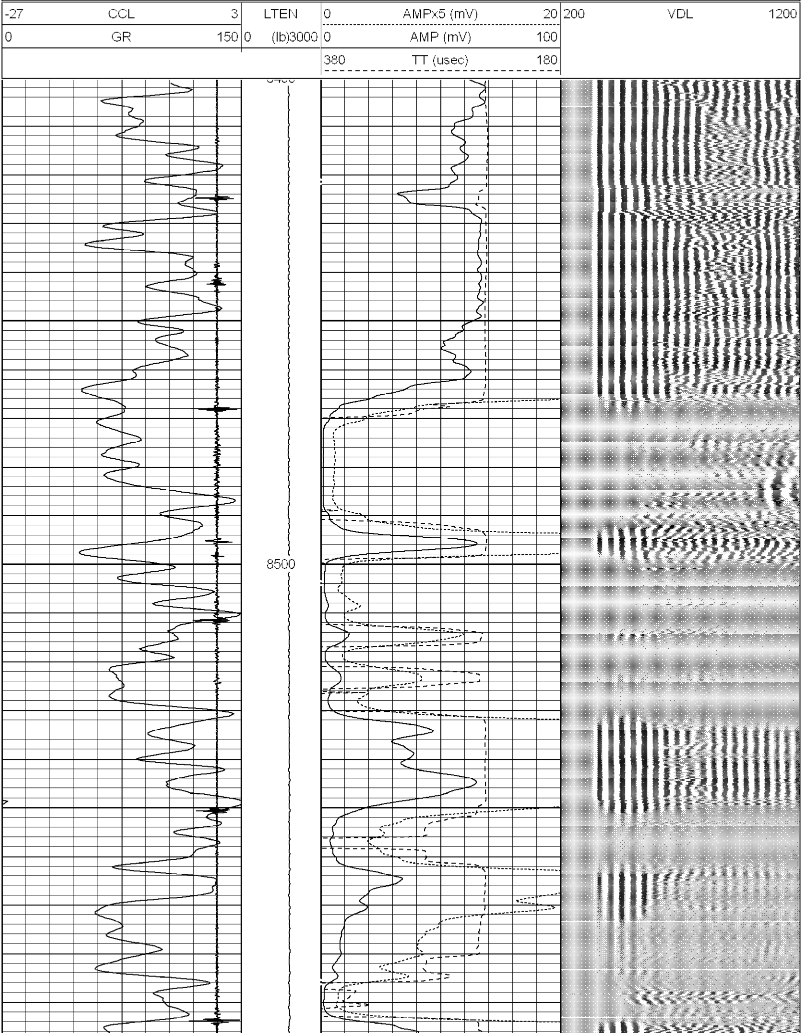


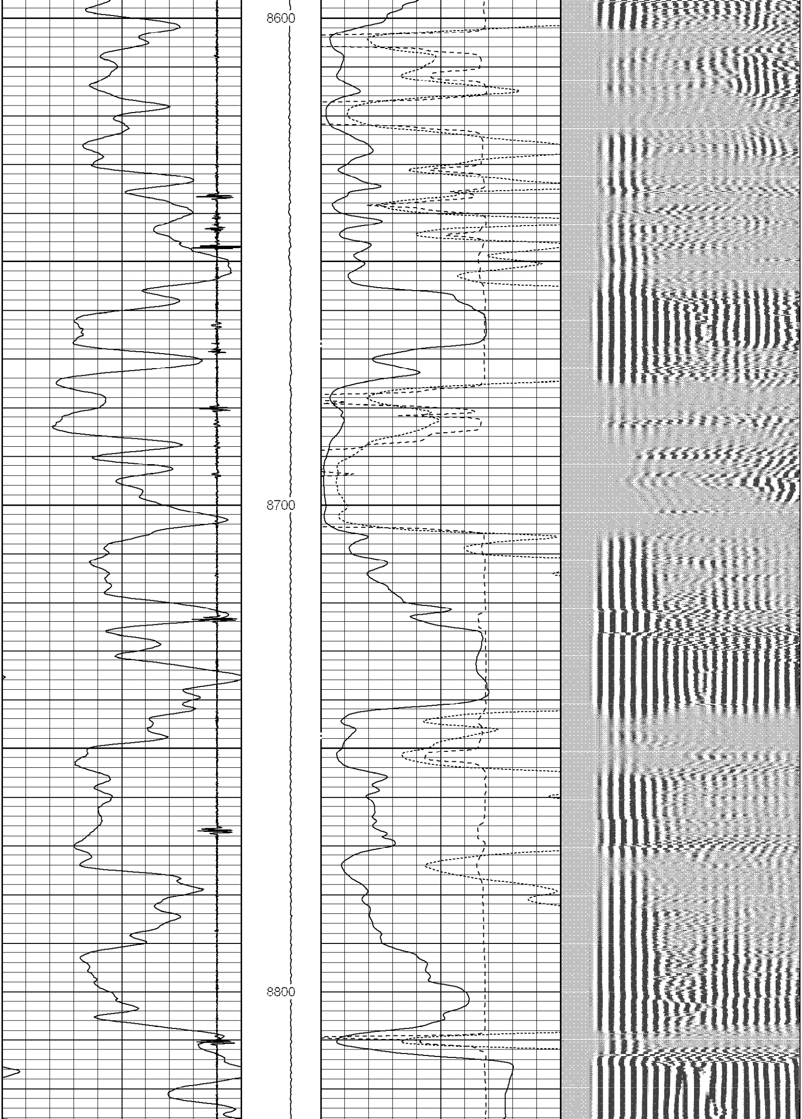


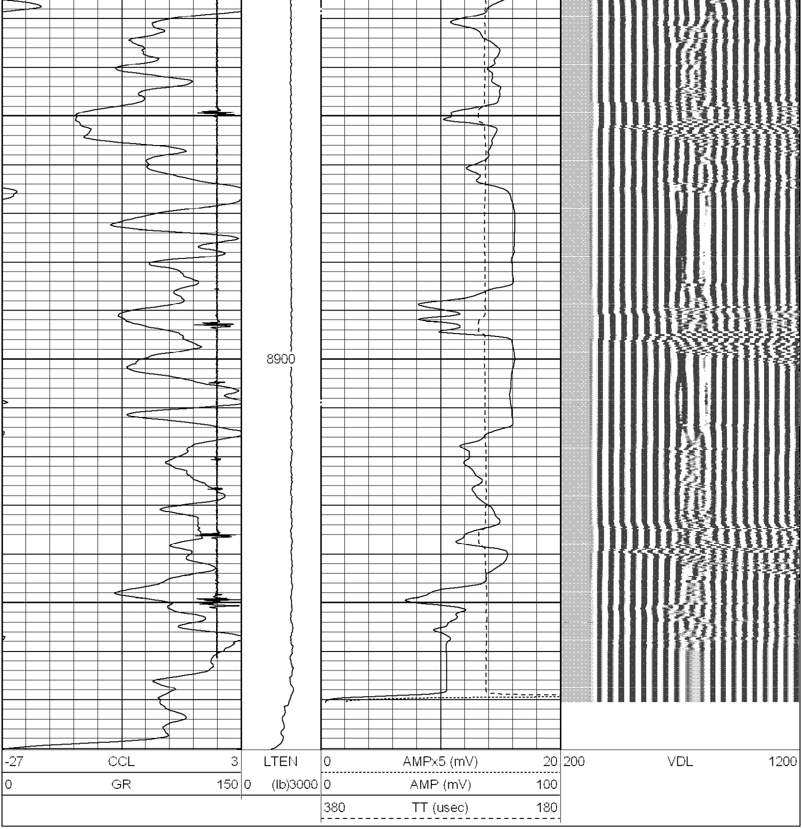
RMWS
ROCKY MOUNTAIN WIRELINE SERVICE

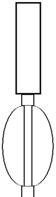
REPEAT PASS

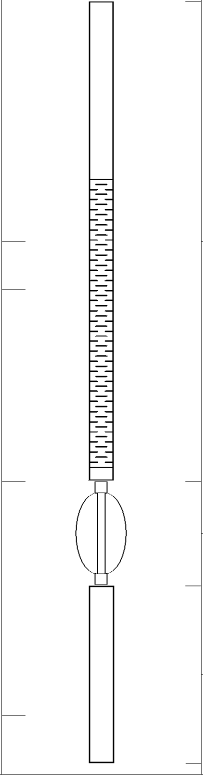
Database File: 092111_berrypet_chevron_19_21d.db
Dataset Pathname: repeat/pass1.1
Presentation Format: rmws_dsc
Dataset Creation: Wed Sep 21 09:38:43 2011 by Calc Std Casedhole 10121
Charted by: Depth in Feet scaled 1:240







Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
CCL	18.75		CCL-TITAN275 (TITAN275_102) Titan 2 3/4" CCL	1.92	2.75	10.00
			TITAN169 Titan 1 11/16" Centralizer	2.17	1.69	5.00



WVF3FT	10.85	CBLTEKCO-TEKCO (TEKCO_8010) DEMO TOOL - DEMINSIONS INVALID	10.00	3.25	50.00
WVF5FT	9.85				
WVFSYNC	5.85				
		TITAN169 Titan 1 11/16" Centralizer	2.17	1.69	5.00
		GR-TEKCO234 (TEKCO234_314) Tekco 2 3/4" Gamma Ray	3.69	2.75	20.00
GR	1.00				

Dataset:	092111_berrypet_chevron_19_21d.db: field/well/main/pass1.1
Total Length:	19.94 ft
Total Weight:	90.00 lb
O.D.	3.25 in

RMWS
ROCKY MOUNTAIN WIRELINE SERVICE

Company	BERRY PETROLEUM COMPANY
Well	CHEVRON 19 - 21D
Field	GRAND VALLEY
County	GARFIELD
State	COLORADO