J-W WIRELINE COMPANY

CEMENT BOND
GAMMA RAY VDL
COLLAR CORRELATION LOG

Company	BLACK RAVEN ENERGY INC
Well	CLAR B-1
Field	ADENA
County	MORGAN
State	COLORADO

Company BLACK RAVEN ENERGY INC
Well CLAR B-1
Field ADENA
County MORGAN State COLORADO

Location: API # : 05-087-05259-0000
SWSE
330 FSL & 2310 FEL
LAT: 40.045195 LONG: -103.819505
SEC 13 TWP 1N RGE 58W

Other Services
NONE

Permanent Datum	GL	Elevation	4561
Log Measured From	KB		
Drilling Measured From	KB		

Elevation
K.B. 4571
D.F.
G.L. 4561

Date	DECEMBER 5, 2012
Run Number	ONE
Depth Driller	5750
Depth Logger	4640
Bottom Logged Interval	4638
Top Log Interval	4040
Open Hole Size	
Type Fluid	WATER
Density / Viscosity	--
Max. Recorded Temp.	NOT RECORDED
Estimated Cement Top	4252
Time Well Ready	--
Time Logger on Bottom	--
Equipment Number	2400
Location	STERLING CO.
Recorded By	PHIL LOPEZ
Witnessed By	BILL HATAWAY

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String				
Prot. String				
Production String	5 1/2			
Liner				

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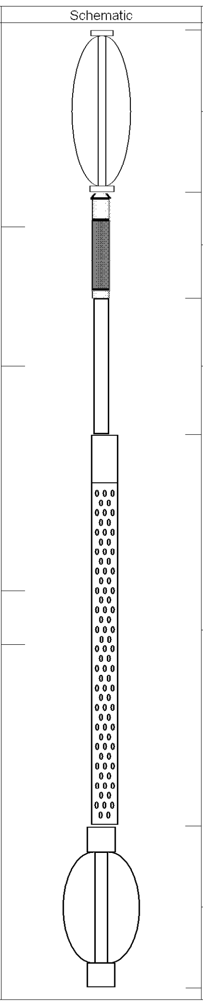
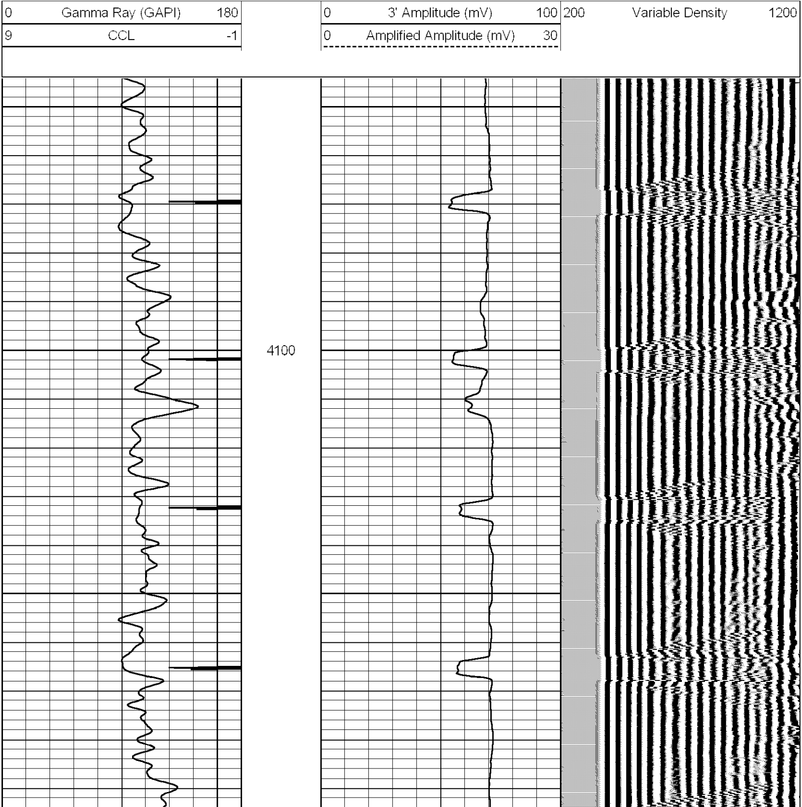
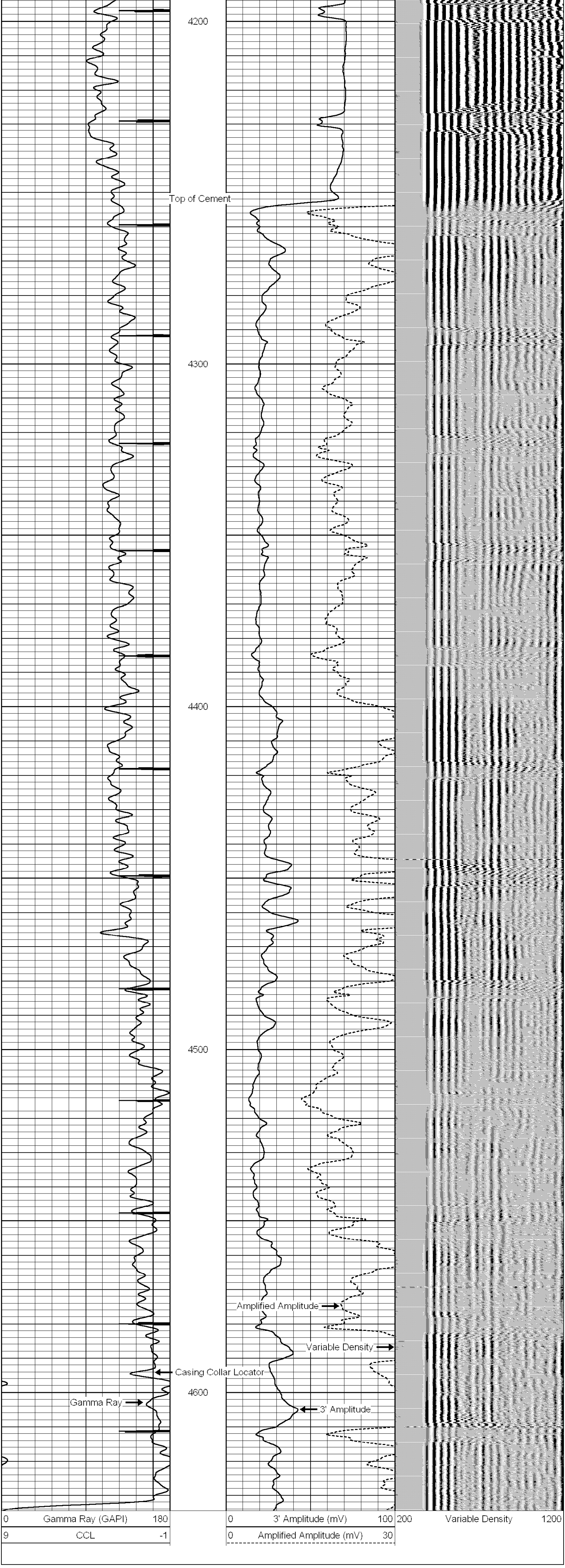
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

THANK YOU FOR CHOOSING J-W WIRELINE

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			CENT-A (1)	3.00	1.69	10.00
CCL	14.06		CCL-275tekco (2.75TEKCO) 2 3/4 TEK CCL Earth Mag	1.96	2.75	20.00
GR	11.49		GR-s_t001 (t001)	2.52	1.69	30.00
WVF5 WVF3	7.34 6.34		CBL-3_5 (001)	7.23	2.44	127.00
			CENT-B (2)	3.00	1.69	10.00

Dataset: clar b-1.db: field/well/run1/pass5
Total Length: 17.71 ft
Total Weight: 197.00 lb
O.D. 2.75 in

Database File: clar b-1.db
Dataset Pathname: pass5
Presentation Format: cblx
Dataset Creation: Wed Dec 05 13:06:33 2012 by Log SCH 111116
Charted by: Depth in Feet scaled 1:240