

<div><div>JW</div><div>JW WIRELINE COMPANY</div></div>		GAMMA RAY CCL CEMENT BOND VDL	
Company BLACK RAVEN ENERGY INC. Well HARRY GEYER #A 4 Field ADENA County MORGAN State COLO		Location: API # : 05-087-05462 Other Services	
SEC 6 TWP 1N RGE 57W Log Measured From GL Drilling Measured From KB		Elevation 4482 K.B. 4490 G.L. 4482	
Date 10-7-13	Run Number ONE	Depth Driller 5677	Bottom Logger 300
Top Log Interval SURFACE	Open Hole Size 7 7/8	Type Fluid WATER	Density / Viscosity
Estimated Cement Top 0900	Time Well Ready 0915	Equipment Number 2269	Location STERLING
Recorded By MIKE ADAMSON	Witnessed By BILLY HATAWAY		
Borehole Record		Tubing Record	
Run Number	Bit	From	To
		Size	Weight
		From	To
Casing Record	Size	Wgt/Ft	Top
Surface String			
Prod. String	5.5		
Production String			
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

THANKS FOR CHOOSING JW WIRELINE

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
CCL	18.58		CCL-TekCo (1 11/16 MOT) (1.68)	1.67	1.69	20.00
			CENT-B (2) 2 3/4 Cent	2.21	2.75	10.00
TEMP	12.85					
WVFCAL	11.02		CBLTEKCO-168 (1681) 1 11/16 Tekco CBL	9.75	1.69	50.00
WVF3FT	10.44					
WVF5FT	9.44					
WVFTMP	6.02		CENT-A (1) 1 11/16 cent	2.21	1.69	10.00
WVFSYNC	6.02					
GR	1.00		GR-Tek-Co (168) 1 11/16 400 Deg. Logging Gamma Ray	3.81	1.68	40.00
Dataset: harry geyer #a 4.db: field/well/run1/pass3 Total Length: 19.65 ft Total Weight: 130.00 lb O.D. 2.75 in						

