JW WIRELINE COMPANY

CEMENT BOND GAMMA RAY VDL COLLAR CORRELATION LOG

Company BLACK RAVEN ENERGY INC
Well NICHOLS #2
Field ADENA
County MORGAN
State COLORADO

Location: API # 05-087-02248
SEC. 24 TWP. 1N RGE. 8W
NW NW NE
GL 1158
KB 1168
DF 1167
Elevation 1168

Permanent Datum
Log Measured From KB
Drilling Measured From KB

Date	10-DEC-2013
Depth Driller	4584
Depth Logger	4584
Bottom Logged Interval	4584
Top Log Interval	4100
Casing Fluid	WATER
Casing Driller	5.5@0-4584
Casing Logger	5.5@0-4584
Max. Recorded Temp.	
Equip. Location	RIFLE
Recorded By	SHEFFIELD
Witnessed By	

Run Number 1
Bit From
To
Size
Type Fluid
Density
Viscosity
PH
Fluid Loss
Source
Rm @ Meas. Temp
Rmf @ Meas. Temp
Rmc @ Meas. Temp
Source of Rmf and Rmc
Rm @ BHT
Time Since Circulation
Time Logger on Bottom
Max Rec. Temp. Deg. F
Equipment Number
Location
Recorded By
Witnessed By

Primary Depth Control
Log Correlated to

Other Services
PERF

Tubing - Driller
Size
Top
Bottom

Tubing - Logger
Size
Top
Bottom

Open Hole
Size
Top
Bottom

Cased Hole
Size 5.50
Top
Bottom

Type Completion (Describe)
Packer Type
Packer Depth
Additional Information

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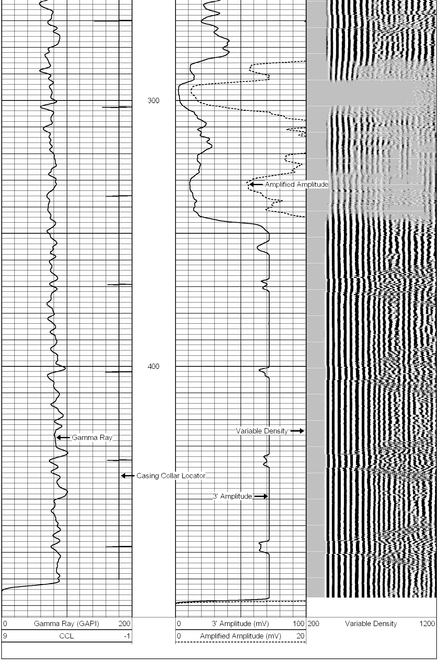
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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) 1 11/16 cent	2.21	1.69	10.00
CCL	14.06		CCL-27Stekco (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	7.34					
WVF3	6.34		CBL-3_5 (001)	7.23	2.44	127.00
			CENT-B (2)	3.00	1.69	10.00

Dataset: nichols #2.db: field/well/run1/pass2
Total Length: 16.92 ft
Total Weight: 197.00 lb
O.D. 2.75 in

Database File: nichols #2.db
Dataset Pathname: pass2
Presentation Format: cblx
Dataset Creation: Tue Dec 17 09:53:46 2013 by Log SCH 111116
Charted by: Depth in Feet scaled 1:240