

PHENIX SURVEYS, INC.

Cement Bond Log

Gamma Ray-CCL-VDL

Company

Black Raven Energy

Well

State of Colorado #C1

Field

Adena

County

Morgan

State

Colorado

Location.

API #: 05-087-05341-0000

Other Services

SEC

7

TWP

1N

RGE

57W

Elevation

4484

Perf

Permament Datum

Log Measured From

Kelly Bashing

Drilling Measured From

January 27, 2012

Date

Run Number

6848

Depth Logger

5598

Bottom Logged Interval

4300

Open Hole Size

17.75"

Estimated Cement Top

N/A

Max. Recorded Temp.

N/A

Density / Viscosity

N/A

Time Well Ready

N/A

Location

Foot Morgan

Recorded By

Josh Horton

Witnessed By

Royce Pope

Run Number

6848

From

To

Size

Weight

Turns

Record

From

To

Chain Record

Size

WVHFI

Top

Bottom

Source String

5.5"

Production String

15.5"

Surface

5608'

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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 Using Phoneix Surveys!!
SO#202564

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
CHD	21.25		STNDRD Standard Cable Head	1.00	1.69	1.00
CENT	20.25		SDSCENT Centralizer	2.88	2.75	20.00
WV3	12.65		CBL-Probe (050215) Probe 2.75" Dual Receiver Bond	8.92	2.75	60.00
WV5	11.65					
CENT	8.46		SDSCENT Centralizer	2.88	2.75	20.00
CCL	4.56		CCL-titan01 (TITLOG)	1.92	2.75	
GR	1.13		GR-probe 2.75 (51013)	3.67	2.75	100.00
Dataset: br_state_c1.db; field/well/run1/pass2 Total Length: 21.25 ft Total Weight: 201.00 lb O.D.: 2.75 in						

Database File: br_state_c1.db
Dataset Pathname: pass2
Presentation Format: cbl_dr
Dataset Creation: Fri Jan 27 10:06:07 2012 by Log Std Casedhole 10081
Charted by: Depth in Feet scaled 1:240

9 CCL -1
0 GR (GAPI) 200

0 Amplified Amplitude (mV) 30 200
0 Amplitude (mV) 100

Variable Density 1200