Pioneer Energy Services

HIGH RESOLUTION INDUCTION GUARD LOG GAMMA RAY - SP

Company	Bonanza Creek Energy Operating
Well	Pronghorn 11-41-28HNB
Field	Riverside
County	Weld
State	Colorado

Company Bonanza Creek Energy Operating Comany LLC
Well Pronghorn 11-41-28HNB
Field Riverside
County Weld State Colorado

Location: API # : 05123386330000
SHL: 1412' FNL & 370' FWL
SWNW
SEC 28 TWP 5N RGE 61W

Other Services
None

Permanent Datum GL Elevation 4616
Log Measured From KB
Drilling Measured From KB

Elevation
K.B. 4632
D.F. 4631
G.L. 4616

Date	January 17, 2014		
Run Number	1		
Depth Driller	5623		
Depth Logger	5623		
Bottom Logged Interval	5623		
Top Log Interval	Casing		
Casing Driller	759		
Casing Logger	759		
Bit Size	8-3/4"		
Type Fluid in Hole	Chem Gel		
Density / Viscosity	9.5 / 41		
pH / Fluid Loss	9.8 / 10.6		
Source of Sample	Flowline		
Rm @ Meas. Temp	2.72 @ 60 F		
Rmf @ Meas. Temp	2.18 @ 60 F		
Rmc @ Meas. Temp	3.26 @ 60 F		
Source of Rmf / Rmc	Measure / Calc		
Rm @ BHT	1.02 @ 160 F		
Time Circulation Stopped	0300		
Time Logger on Bottom	0715		
Maximum Recorded Temperature	160 F		
Equipment Number	49		
Location	Brighton, CO		
Recorded By	Matt Gill		
Witnessed By	Joe Savage		

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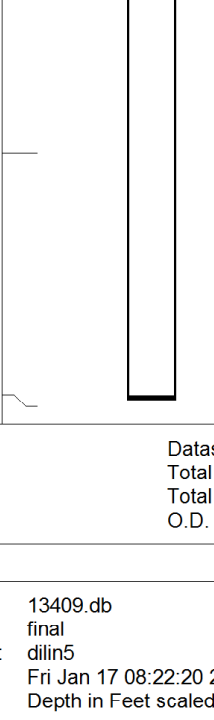
All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees.

Comments

Cade Drilling Rig 22
Thank you for using Pioneer Energy Services.

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			CHD (~0)	2.00	3.50	30.00
GR	0.00		GR-PSI (939)	2.92	3.50	40.00
RLL3	-4.02					
			DIL-PSI (1011)	18.25	3.75	175.00
CILD	-11.47					
CILM	-14.92					
SP	-18.92					



Dataset: 13409.db: field/well/run1/final
Total Length: 23.17 ft
Total Weight: 245.00 lb
O.D. 3.75 in

Database File: 13409.db
Dataset Pathname: final
Presentation Format: dilin5
Dataset Creation: Fri Jan 17 08:22:20 2014
Charted by: Depth in Feet scaled 1:600

Database File: 13409.db
Dataset Pathname: final
Presentation Format: dil
Dataset Creation: Fri Jan 17 08:22:20 2014
Charted by: Depth in Feet scaled 1:240

Calibration Report

Database File: 13409.db
Dataset Pathname: pass2
Dataset Creation: Fri Jan 17 07:12:38 2014 by Log 0

Dual Induction Calibration Report

Serial-Model: 1011-PSI
Surface Cal Performed:

	Readings		References			Results	
Loop:	Air	Loop	Air	Loop		m	b
Deep	0.000	1.000	0.000	1.000	mmho/m	0.510	-28.000
Medium	0.000	1.000	0.000	1.000	mmho/m	0.440	-28.000

Gamma Ray Calibration Report

Serial Number:	939	
Tool Model:	PSI	
Performed:	Wed Jan 15 08:01:44 2014	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.6200	GAPI/cps