Company	CARRIZO NIOBRARA LLC
Well	SHULL 2-35-9-60
Field	WATTENBERG
County	WELD
State	CO

PIONEER
Pioneer Energy Services

COMPENSATED NEUTRON GAMMA RAY

Company	CARRIZO NIOBRARA LLC
Well	SHULL 2-35-9-60
Field	WATTENBERG
County	WELD
State	CO

Location: API # : 05-123-37237
285' FNL & 1319' FEL NENE
SEC 35 TWP 9N RGE 60W

Other Services
NONE

Permanent Datum	GL	Elevation	4924
Log Measured From	KB		
Drilling Measured From	KB		

Elevation
K.B. 4941
D.F. 4940
G.L. 4924

Date	September 16, 2014		
Run Number	1		
Depth Driller	NA		
Depth Logger	5475		
Bottom Logged Interval	5475		
Top Log Interval	0		
Casing Driller	NA		
Casing Logger	NA		
Bit Size	8.75		
Type Fluid in Hole	NA		
Density / Viscosity	NA		
pH / Fluid Loss	NA		
Source of Sample	NA		
Rm @ Meas. Temp	NA		
Rmf @ Meas. Temp	NA		
Rmc @ Meas. Temp	NA		
Source of Rmf / Rmc	NA		
Rm @ BHT	NA		
Time Circulation Stopped	NA		
Time Logger on Bottom	1125		
Maximum Recorded Temperature	NA		
Equipment Number	48		
Location	Ft. Morgan		
Recorded By	Clint Christensen		
Witnessed By	Jeff Myers		

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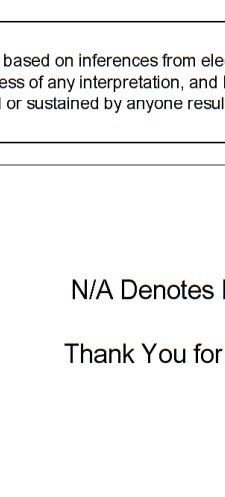
All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not be liable or responsible for any loss, costs, damages,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

Comments

N/A Denotes Not Available or Non-Applicable

Thank You for Using Pioneer Energy Services.

SO# 2-013669



Sensor	Offset (ft)	Description	Len (ft)	OD (in)	Wt (lb)
		CHD (~0)	2.00	3.50	30.00
		GR-PSI (939)	2.92	3.50	40.00
GR	0.00				
		CNT-PSI (856)	5.00	3.50	70.00
CNLSC	-3.67				
CNSSC	-4.17				

Dataset: 13669.db: field/well/run1/pass1
Total Length: 9.92 ft
Total Weight: 140.00 lb
O.D.: 3.50 in

Database File	13669.db
Dataset Pathname	Final
Presentation Format	den_neu
Dataset Creation	Tue Sep 16 13:01:30 2014
Charted by	Depth in Feet scaled 1:240

Calibration Report

Database File:	13669.db
Dataset Pathname:	pass1
Dataset Creation:	Tue Sep 16 10:41:08 2014 by Log 0

Compensated Neutron Calibration Report

Serial Number:	856
Tool Model:	PSI

CALIBRATION

Detector	Readings		Target		Normalization
Short Space	1.00	cps	1.00	cps	1.9000
Long Space	1.00	cps	1.00	cps	2.1700

Gamma Ray Calibration Report

Serial Number:	939	
Tool Model:	PSI	
Performed:	Wed Sep 03 09:19:35 2014	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.7800	GAPI/cps