PIONEER Pioneer Energy Services

CEMENT BOND LOG WITH GAMMA RAY

Company: Great Western Oil & Gas LLC
Well: H-Y 29-21-3
Field: Wattenberg
County: Weld
State: Colorado

Company Great Western Oil & Gas LLC
Well H-Y 29-21-3
Field Wattenberg
County Weld State Colorado

Location: API # : 05-123-35426
SHL: 739' FNL & 1936' FWL NENW
BHL: 31' FSL & 2634' FWL SESW
SEC 29 TWP 6N RGE 67W

Other Services: NONE

Permanent Datum: Ground Level, Elevation 4784'
Log Measured From: Kelly Bushing
Drilling Measured From: Kelly Bushing

Elevation: K.B. 4798', D.F. 4797', G.L. 4784'

Date of Service	July 30, 2012
Run Number	1
Depth Driller or PBTD	7413'
Depth Logger	7344'
Bottom Log Interval	7332'
Top Log Interval	500
Open Hole Size	7-7/8"
Type Fluid	Water
Fluid Level	Surface
Fluid Density	N/A
Max. Recorded Temperature	N/A
Max. Wellhead Pressure	N/A
Wellhead Connection	N/A
Estimated Cement Top	N/A
Unit Number	#54
Wireline Size	9/32"
Location	Ft Morgan
Recorded By	Josh Horton
Witnessed By	Shaun Armstrong

	Size	Wt/Ft	Top	Bottom
Tubing Record				
Surface Casing				
Production Casing	4.5"	11.6#	Surface	7410'
Liner Record				

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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.
SO# 2-203360

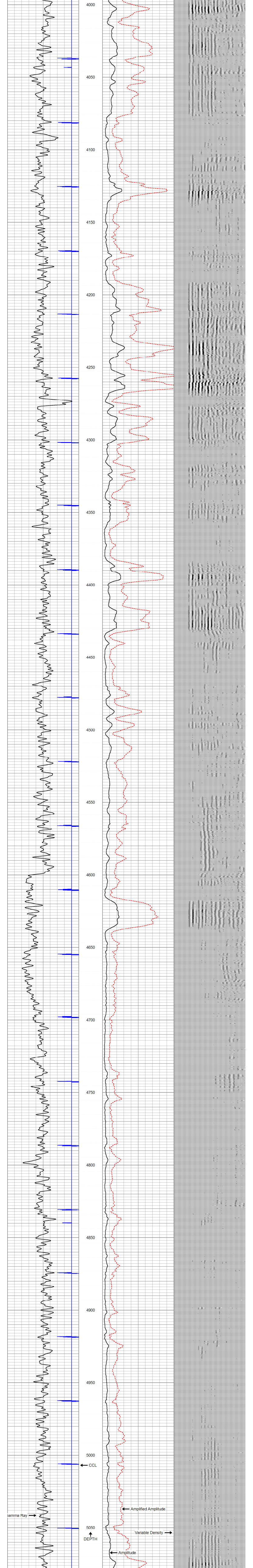
THANK YOU FOR USING PIONEER Energy SERVICES

Your Pioneer Energy Services Crew	Tool Data - Services	Serial Number
Engineer: Josh Horton	Probe 2.75" CBL	050215
Operator: Bret Mari	Probe Gamma Ray	51013
Operator: Bill Thompson		
Operator:		

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
WVF3	12.65		CBL-Probe (050215) Probe 2.75" Dual Receiver Bond	8.92	2.75	60.00
WVF5	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: gw_h-y_29-31-3.db: field/well/run1/pass3
Total Length: 21.25 ft
Total Weight: 201.00 lb
O.D.: 2.75 in

Database File: gw_h-y_29-31-3.db
Dataset Pathname: pass3
Presentation Format: cbl_dr
Dataset Creation: Mon Jul 30 11:29:49 2012 by Log SCH 120126
Charted by: Depth in Feet scaled 1:240



9 CCL -1	0 Amplified Amplitude (mV) 30	200 Variable Density 1200
0 GR (GAPI) 200	0 Amplitude (mV) 100	

Database File: gw_h-y_29-31-3.db
Dataset Pathname: pass2
Presentation Format: cbl_dr
Dataset Creation: Mon Jul 30 10:50:33 2012 by Log SCH 120126
Charted by: Depth in Feet scaled 1:240

9 CCL -1	0 Amplified Amplitude (mV) 30	200 Variable Density 1200
0 GR (GAPI) 200	0 Amplitude (mV) 100	

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0 GR (GAPI) 200	0 Amplitude (mV) 100	