Cement Bond Log
Gamma Ray-CCL-VDL

PIONEER
Pioneer Energy Services

Company	Great Westen Oil & Gas LLC
Well	H-Y 20-23
Field	Wattenberg
County	Weld
State	Colorado

Company Great Westen Oil & Gas LLC
Well H-Y 20-23
Field Wattenberg
County Weld State Colorado

Location: API #: 05-123-35433
SHL: 725' FNL & 1916' FWL NENW
BHL: 1920' FSL & 1961' FWL NESW
SEC 29 TWP 6N RGE 67W

Other Services: NONE

Permanent Datum: Ground Level, Elevation 4785'
Log Measured From: Kelly Bushing
Drilling Measured From: Kelly Bushing

Elevation: K.B. 4799', D.F. 4798', G.L. 4785'

Date	July 25, 2012
Run Number	1
Depth Driller	8007'
Depth Logger	7965'
Bottom Logged Interval	7953'
Top Log Interval	Surface
Open Hole Size	7 7/8"
Type Fluid	Water
Density / Viscosity	N/A
Max. Recorded Temp.	N/A
Estimated Cement Top	N/A
Time Well Ready	N/A
Time Logger on Bottom	N/A
Equipment Number	#54
Location	Ft Morgan
Recorded By	Josh Horton
Witnessed By	Shaun Armstrong

Borehole Record				Tubing Record		
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String				
Prot. String				
Production String	4.5"	11.6	Surface	8007'
Liner				

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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

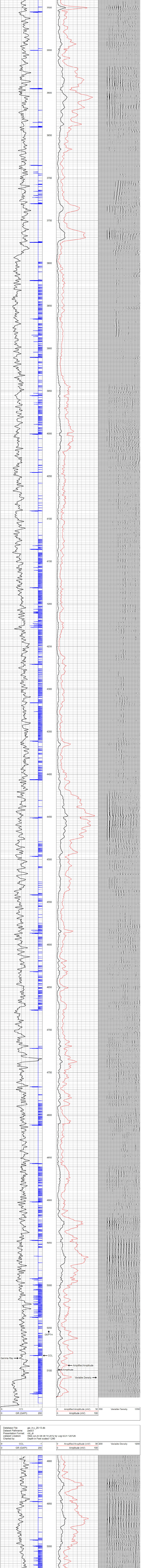
Thank You For Using Pioneer Energy Services!
SO # 2-203349

Sensor	Offset (ft)	Description	Len (ft)	OD (in)	Wt (lb)
CHD	21.25				
CENT	20.25	STNDRD Standard Cable Head	1.00	1.69	1.00
		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-probe 2.75 (51013)	3.67	2.75	100.00
GR	1.13				

Dataset: gw_h-y_20-13.db: field/well/run1/pass4
Total Length: 21.25 ft
Total Weight: 201.00 lb
O.D. 2.75 in

Database File: gw_h-y_20-13.db
Dataset Pathname: pass4
Presentation Format: cbl_dr
Dataset Creation: Wed Jul 25 09:17:41 2012 by Log SCH 120126
Charted by: Depth in Feet scaled 1:240

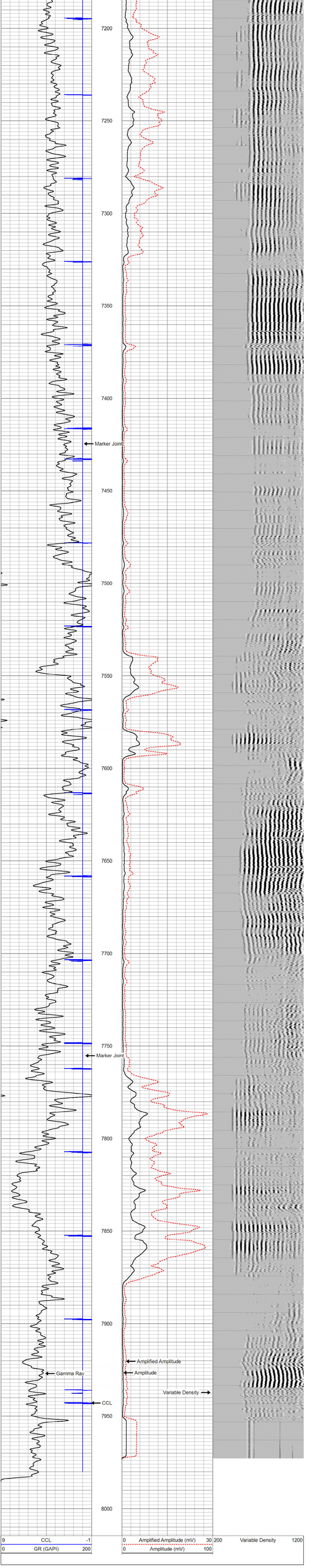
9 CCL -1	0 Amplified Amplitude (mV) 30	200 Variable Density 1200
0 GR (GAPI) 200	0 Amplitude (mV) 100	



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_20-13.db
Dataset Pathname: pass3
Presentation Format: cbl_dr
Dataset Creation: Wed Jul 25 08:38:14 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			


7200
7250
7300
7350
7400
Marker Joint
7450
7500
7550
7600
7650
7700
7750
Marker Joint
7800
7850
7900
Amplified Amplitude
Gamma Ray
Amplitude
Variable Density
CCL
7950
8000
9 CCL -1
0 GR (GAPI) 200
0 Amplified Amplitude (mV) 30
0 Amplitude (mV) 100
200 Variable Density 1200