PIONEER
Pioneer Energy Services

VDL CCL GAMMA-RAY CEMENT BOND LOG

Company	BAYSWATER EXPLORATION & PROD.
Well	HIRSCH 11-24
Field	WATTENBERG
County	WELD
State	COLORADO

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Field WATTENBERG
County WELD State COLORADO

Location: API # : 05-123-37919-0000
SHL 1501' FNL & 1975' FWL SENE
BHL 1864' FSL & 1357' FWL NESW
SEC 24 TWP 7N RGE 67W

Other Services
PERF
CODELL

Permanent Datum	GL	Elevation	5035'
Log Measured From	KB		
Drilling Measured From	KB		

Elevation
K.B. 5048'
D.F. 5048'
G.L. 5035'

Date	2/19/14
Run Number	ONE
Depth Driller	7955'
Depth Logger	7920'
Bottom Logged Interval	7911'
Top Log Interval	50'
Open Hole Size	7.875"
Type Fluid	WATER
Density / Viscosity	NA
Max. Recorded Temp.	208 DEG. F
Estimated Cement Top	SURFACE
Time Well Ready	AM
Time Logger on Bottom	AM
Equipment Number	59
Location	FORT MORGAN
Recorded By	TODD YOUNG
Witnessed By	SUSAN SEARS

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	TD
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

SO # 2-204949

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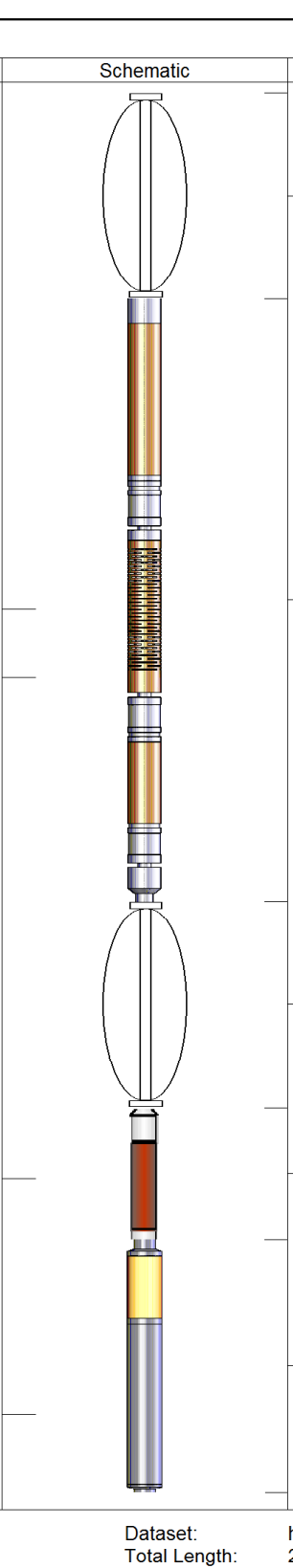
THANK YOU FOR USING PIONEER ENERGY SERVICES

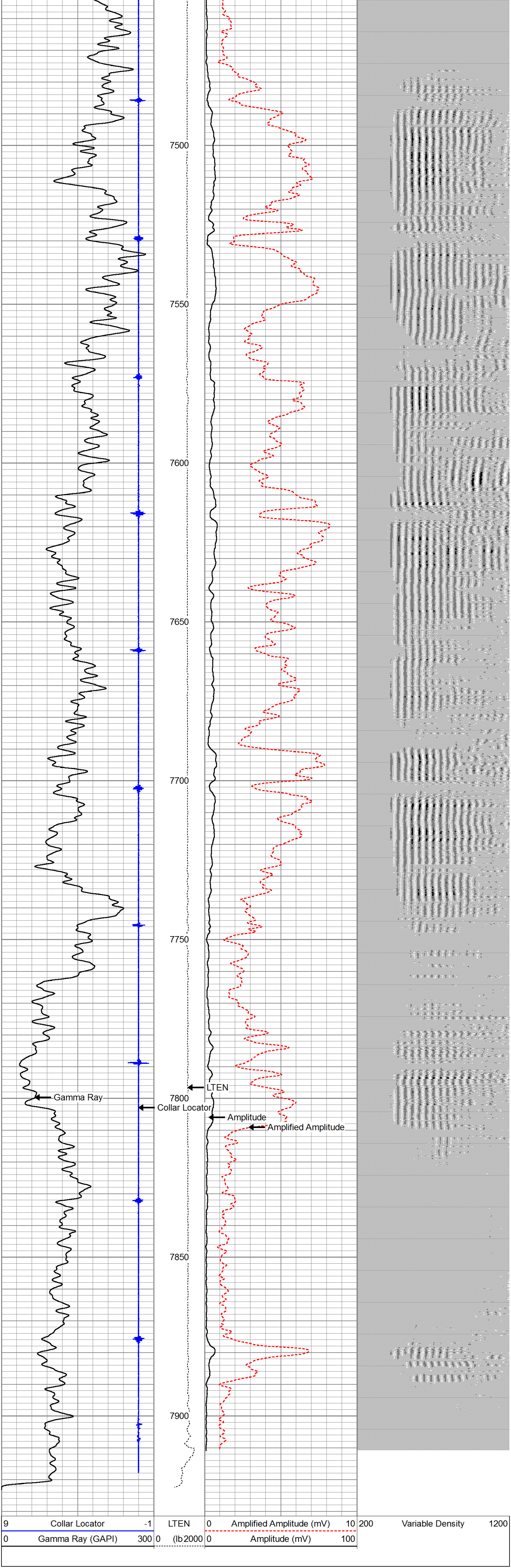
Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			SDSCENT Centralizer for testing	3.00	3.25	20.00
WVF3 WVF5	12.84 11.84		CBL-Probe (050215) Probe 2.75" Dual Receiver Bond	8.75	2.75	60.00
			SDSCENT Centralizer for testing	3.00	3.25	20.00
CCL	4.57		CCL-titan01 (01t)	1.92	2.75	
GR	1.13		GR-probe 2.75 (51013) PROBE_GCT	3.67	2.75	100.00

Dataset: hirsch 11-24.db: field/well/run1/pass3
Total Length: 20.34 ft
Total Weight: 200.00 lb
O.D. 3.25 in

Database File: hirsch 11-24.db
Dataset Pathname: pass3
Presentation Format: cbl_dr
Dataset Creation: Wed Feb 19 08:31:58 2014 by Log 7.0 B1
Charted by: Depth in Feet scaled 1:240

9	Collar Locator	-1	LTEN	0	Amplified Amplitude (mV)	10	200	Variable Density	1200
0	Gamma Ray (GAPI)	300	0 (lb 2000	0	Amplitude (mV)	100			

Database File: hirsch 11-24.db
Dataset Pathname: pass2
Presentation Format: cbl_dr
Dataset Creation: Wed Feb 19 07:52:06 2014 by Log 7.0 B1
Charted by: Depth in Feet scaled 1:240


7500
7550
7600
7650
7700
7750
7800
7850
7900
Gamma Ray
Collar Locator
LTEN
Amplitude
Amplified Amplitude
9 Collar Locator -1
0 Gamma Ray (GAPI) 300
LTEN
0 (lb 2000
0 Amplified Amplitude (mV) 10
0 Amplitude (mV) 100
200 Variable Density 1200