PIONEER
Pioneer Energy Services

V.D.L. C.C.L. GAMMA RAY CEMENT BOND LOG

Company	BAYSWATER EXPLORATION AND
Well	HIRSCH 14-24
Field	WATTENBERG
County	WELD
State	COLORADO Country USA

Company	BAYSWATER EXPLORATION AND PROD. LLC
Well	HIRSCH 14-24
Field	WATTENBERG
County	WELD
State	COLORADO Country USA

API # : 05123354100000

Location:
SHL: 482' FNL & 232' FEL NENE
BHL: 660' FSL & 1981' FWL SESW SEC. 24
SEC 26 TWP 7N RGE 67W

Other Services

Permanent Datum	GL	Elevation 4853'	Elevation K.B. 4869' D.F. 4868' G.L. 4853'
Log Measured From	KB		
Drilling Measured From	KB		

Date	MARCH 20, 2013
Run Number	ONE
Depth Driller	7964'
Depth Logger	7928'
Bottom Logged Interval	7916'
Top Log Interval	50'
Open Hole Size	7.875"
Type Fluid	WATER
Density / Viscosity	NA
Max. Recorded Temp.	194 DEG.
Estimated Cement Top	NA
Time Well Ready	NA
Time Logger on Bottom	NA
Equipment Number	ONE
Location	FORT MORGAN
Recorded By	RANDY AZEVEDO
Witnessed By	MARCOS APODACA

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String				
Prot. String	4.5"	11.6LB	SURFACE	7964'
Production String				
Liner				

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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

LOG CORRILATED TO HES OPEN HOLE LOG DATED 3-4-13
WCR 74 & WCR 23, NORTH 1.75, WEST INTO
SO # 2-203595
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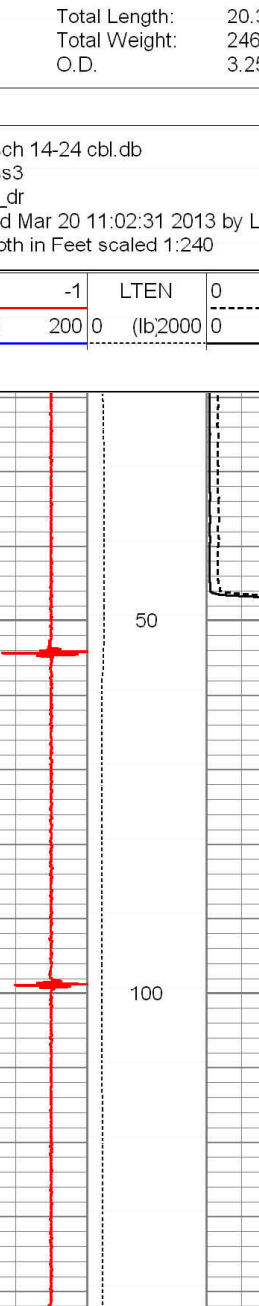
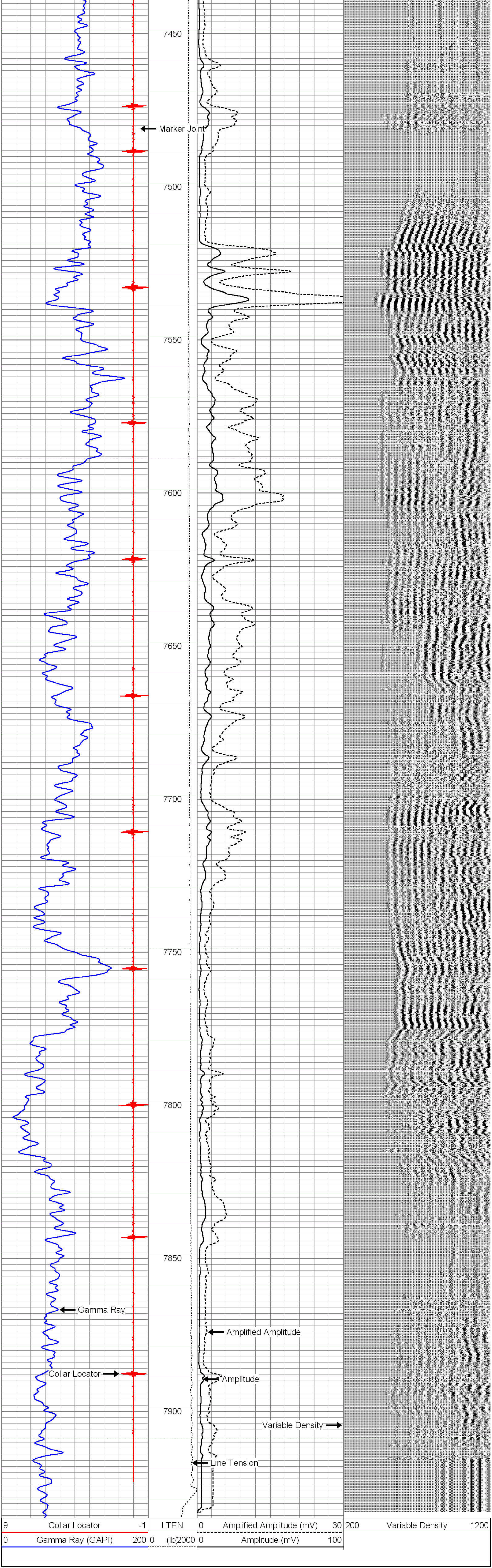


Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
CCL	19.31		CCL-titan01 (01t)	1.92	2.75	
			SDSCENT Centralizer for testing	3.00	3.25	20.00
WVF3	10.92		CBL-Probe (050215) 2.75 digital probe	8.75	2.75	106.50
WVF5	9.92					
			SDSCENT Centralizer for testing	3.00	3.25	20.00
			GR-probe 2.75 (51013)	3.67	2.75	100.00
GR	1.13					

Dataset: hirsch 14-24 cbl.db: field/well/run1/pass3
Total Length: 20.33 ft
Total Weight: 246.50 lb
O.D. 3.25 in

Database File: hirsch 14-24 cbl.db
Dataset Pathname: pass3
Presentation Format: cbl_dr
Dataset Creation: Wed Mar 20 11:02:31 2013 by Log SCH 110722
Charted by: Depth in Feet scaled 1:240

Database File: hirsch 14-24 cbl.db
Dataset Pathname: pass2
Presentation Format: cbl_dr
Dataset Creation: Wed Mar 20 10:25:25 2013 by Log SCH 110722
Charted by: Depth in Feet scaled 1:240



7450
Marker Joint
7500
7550
7600
7650
7700
7750
7800
7850
Gamma Ray
Amplified Amplitude
Collar Locator
Amplitude
7900
Variable Density
Line Tension
9 Collar Locator -1
0 Gamma Ray (GAPI) 200
LTEN
0 (lb) 2000
0 Amplified Amplitude (mV) 30
0 Amplitude (mV) 100
200 Variable Density 1200