Company	BAYSWATER EXPLORATION & PROD.
Well	HIRSCH 17-24
Field	WATTENBERG
County	WELD
State	COLORADO

Pioneer Energy Services

VDL CCL GAMMA-RAY CEMENT BOND LOG

Company BAYSWATER EXPLORATION & PROD.
Well HIRSCH 17-24
Field WATTENBERG
County WELD State COLORADO

Location: API # : 05-123-37923-0000
SHL 1471' FNL & 2508' FWL SENW
BHL 1306' FNL & 1291' FEL NENE
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	7759'
Depth Logger	7720'
Bottom Logged Interval	7711'
Top Log Interval	50'
Open Hole Size	7.875"
Type Fluid	WATER
Density / Viscosity	NA
Max. Recorded Temp.	209 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 # 2-220000

N
W 0 E
X
X
S

THANK YOU FOR USING PIONEER ENERGY SERVICES

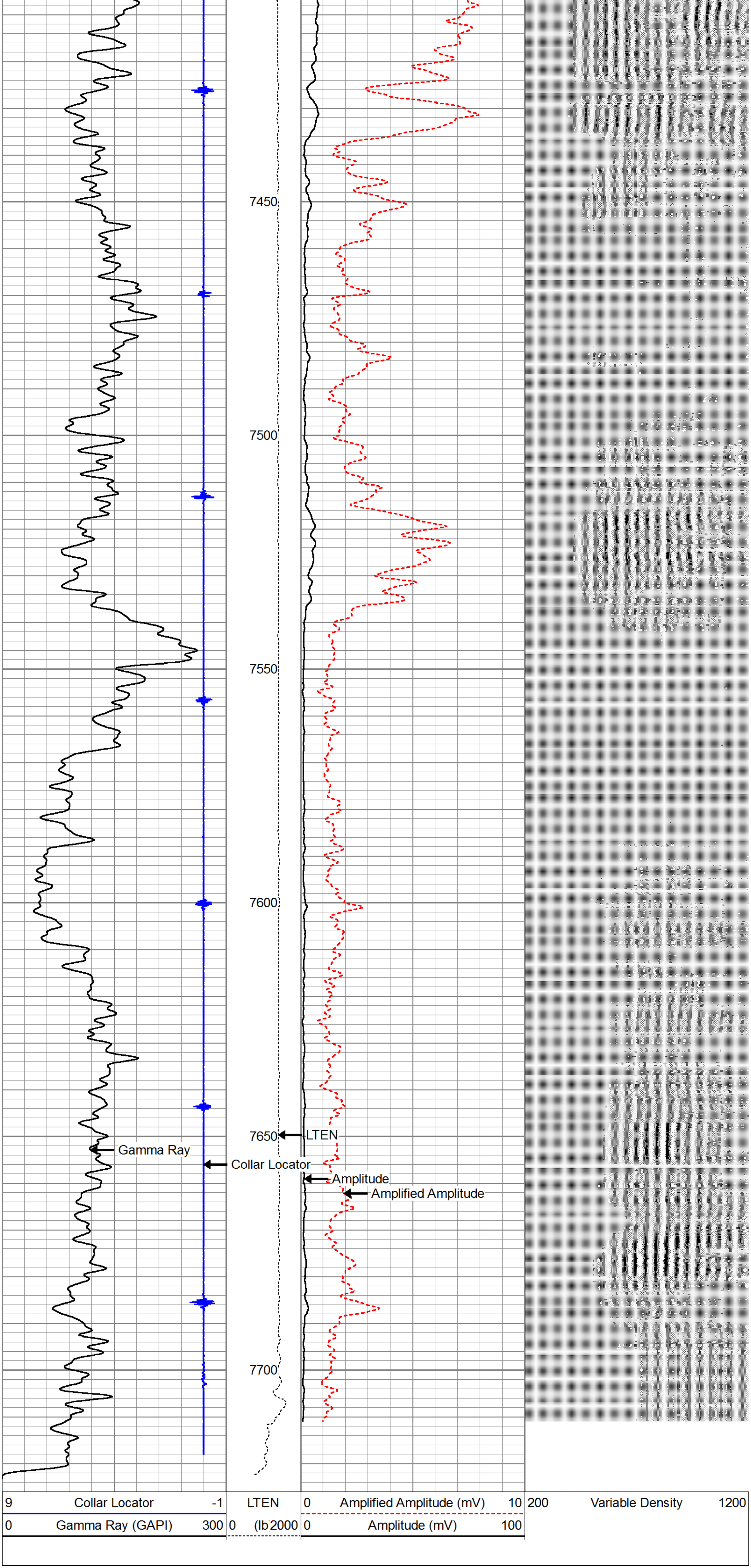
Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			SDSCENT Centralizer for testing	3.00	3.25	20.00
WVF3 WVF5	12.84 11.84		CBL-Probe (050215) Probe 2.75" Dual Receiver Bond	8.75	2.75	60.00
			SDSCENT Centralizer for testing	3.00	3.25	20.00
CCL	4.57		CCL-titan01 (01t)	1.92	2.75	
GR	1.13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

Dataset: hirsch 17-24.db: field/well/run1/pass4
Total Length: 20.34 ft
Total Weight: 200.00 lb
O.D. 3.25 in

Database File: hirsch 17-24.db
Dataset Pathname: pass4
Presentation Format: cbl_dr
Dataset Creation: Wed Feb 19 12:44:22 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 17-24.db
Dataset Pathname: pass3
Presentation Format: cbl_dr
Dataset Creation: Wed Feb 19 12:08:07 2014 by Log 7.0 B1
Charted by: Depth in Feet scaled 1:240


7450
7500
7550
7600
7650
LTEN
Gamma Ray
Collar Locator
Amplitude
Amplified Amplitude
7700
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