Company HRM RESOURCES,LLC
Well FRITZLER 12-21
Field WATTENBERG
County WELD
State COLO.

PSI
PHOENIX SURVEYS, INC.

CEMENT BOND V.D.L. C.C.L. & GAMMA-RAY

Company HRM RESOURCES,LLC
Well FRITZLER 12-21
Field WATTENBERG
County WELD State COLO.

Location: API # : 05-123-33213-00
1707' FNL & 543' FWL
WS NW
SEC 21 TWP 6N RGE 66W

Other Services

Permanent Datum GL Elevation 4746
Log Measured From KB
Drilling Measured From KB

Elevation
K.B. 4762
D.F. 4761
G.L. 4746

Date	6-23-2011
Run Number	1
Depth Driller	7298
Depth Logger	7223
Bottom Logged Interval	7211
Top Log Interval	3190
Open Hole Size	7 7/8"
Type Fluid	WATER
Density / Viscosity	
Max. Recorded Temp.	233
Estimated Cement Top	3490
Time Well Ready	ROA
Time Logger on Bottom	7:00 AM
Equipment Number	24
Location	FORT MORGAN
Recorded By	NATHAN BIVENS
Witnessed By	BRAD POTTEBAUM

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"			
Production String				
Liner				

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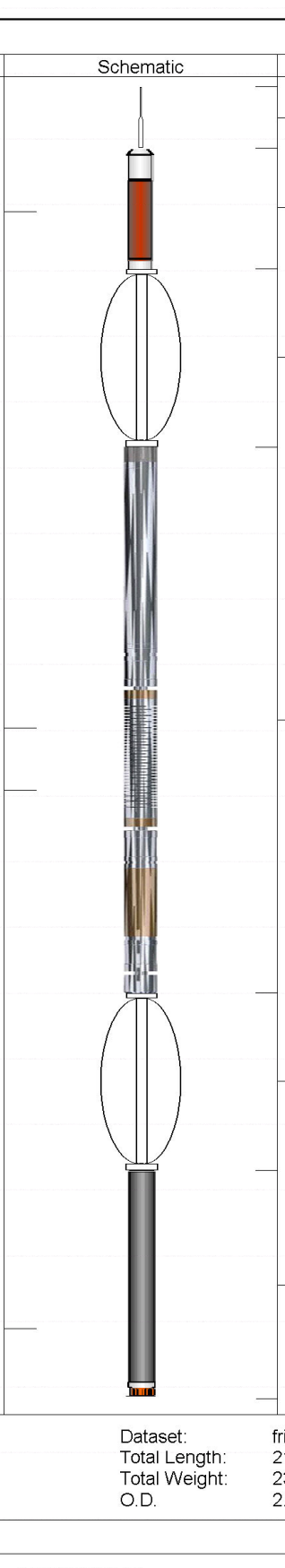
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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

S.O. 202018
EAST WELL

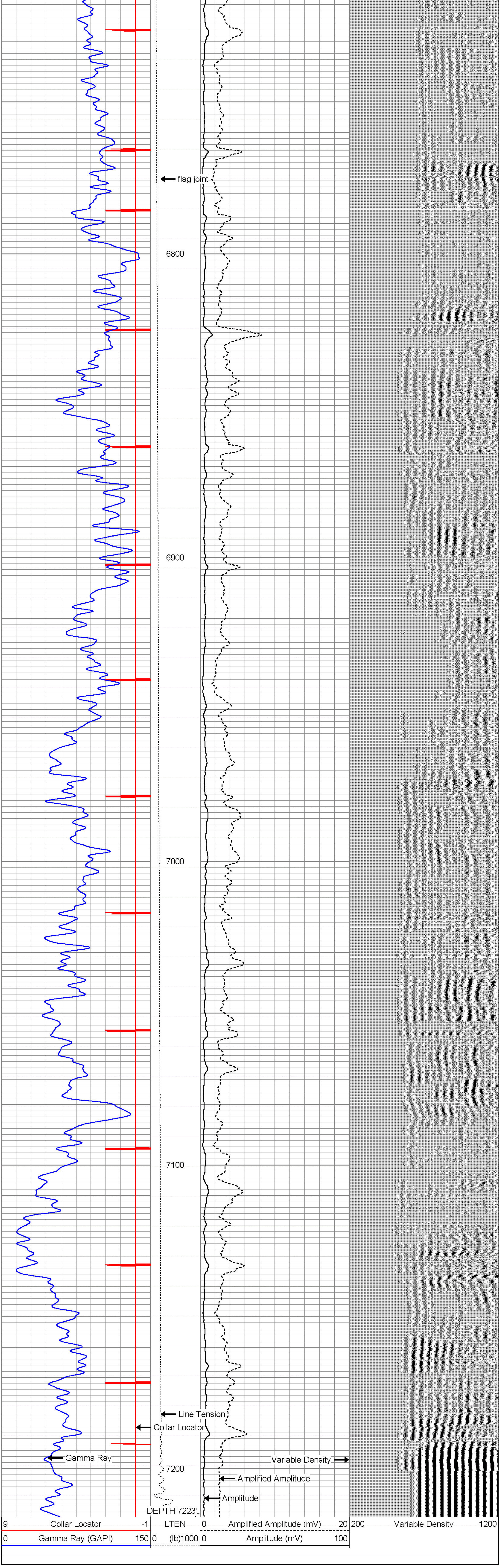
THANK YOU FOR USING PSI WIRELINE



Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			STNDRD Standard Cable Head	1.00	1.69	1.00
CCL	19.06		CCL-titan01 (01t)	1.92	2.75	
			SDSCENT Centralizer	2.88	2.75	20.00
WVF3	10.79		CBL-Probe (050215) 2.75 digital probe	8.75	2.75	93.00
WVF5	9.79					
			SDSCENT Centralizer	2.88	2.75	20.00
GR	1.13		GR-probe 2.75 (51013)	3.67	2.75	100.00

Dataset: fritzler 12-21.db: field/well/run1/pass11
Total Length: 21.08 ft
Total Weight: 234.00 lb
O.D. 2.75 in

Database File: fritzler 12-21.db
Dataset Pathname: pass11
Presentation Format: cbl_dr
Dataset Creation: Thu Jun 23 07:11:33 2011 by Log Std Casedhole 09061
Charted by: Depth in Feet scaled 1:240


flag joint
6800
6900
7000
7100
Line Tension
Collar Locator
Gamma Ray
7200
Variable Density
Amplified Amplitude
Amplitude
DEPTH 7223'
9
Collar Locator
-1
LTEN
0
Amplified Amplitude (mV)
20
200
Variable Density
1200
0
Gamma Ray (GAPI)
150
0
(lb)1000
0
Amplitude (mV)
100