SUPERIOR WELL SERVICES
SUPERIOR STERLING, CO. UNIT # 3312

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

Company	NOBLE ENERGY INC.
Well	DF RANCH 1161-8-14
Field	WATTENBERG
County	WELD
State	COLORADO

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Well DF RANCH 1161-8-14
Field WATTENBERG
County WELD State COLORADO
Location: API #: 05.123.31105
1980' FSL & 660' FEL
SE NE
SEC 8 TWP 11N RGE 61W
Other Services

Permanent Datum	GL	Elevation	5286	Elevation
Log Measured From	KB---------- 13 FT			K.B. 5299
Drilling Measured From	KB			D.F. 5298
				G.L. 5286

Date	02.09.2012
Run Number	ONE
Depth Driller	7950
Depth Logger	7860
Bottom Logged Interval	7860
Top Log Interval	630
Open Hole Size	7-7/8"
Type Fluid	WATER
Density / Viscosity	N/A
Max. Recorded Temp.	242° F
Estimated Cement Top	1668
Time Well Ready	MAST
Time Logger on Bottom	2-3/4"NX#4
Equipment Number	3312
Location	STERLING
Recorded By	LEROY HOBBS
Witnessed By	DENNIS MARSHALL

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	8-5/8"	24.00 / J-55	SURFACE	1104.00
Prot. String				
Production String	4-1/2"	11.60 / M-80	SURFACE	7934.00
Liner				

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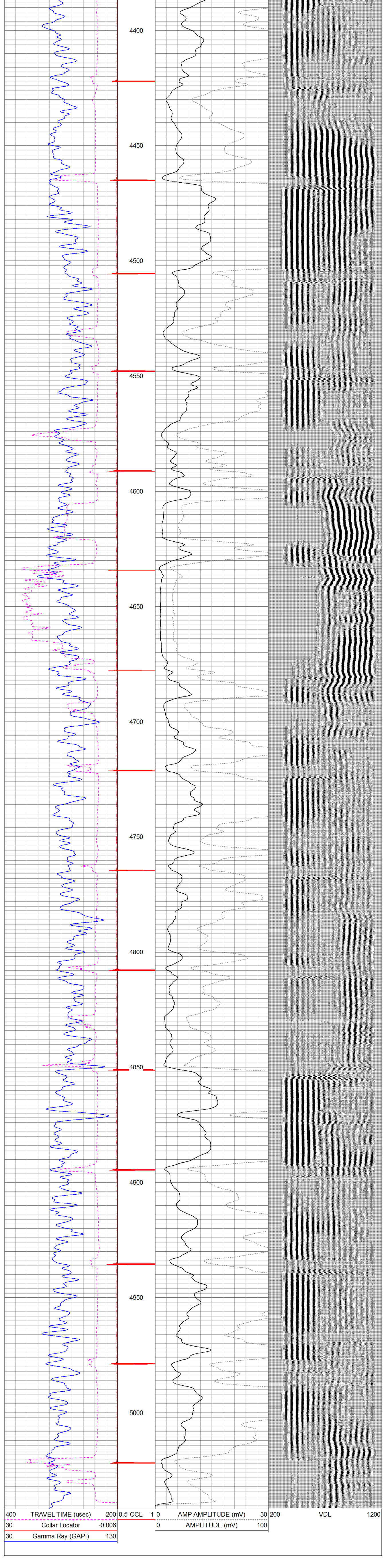
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

CORRECTED TO PSI OPNEN HOLE LOG DATED JANUARY 25, 2012.

Database File:	dfranch8-14cbl.db
Dataset Pathname:	pass4
Presentation Format:	cbl_drs
Dataset Creation:	Thu Feb 09 15:41:47 2012 by Log Std Casedhole 10081
Charted by:	Depth in Feet scaled 1:240



400 TRAVEL TIME (usec) 200 | 0.5 CCL 1 | 0 AMP AMPLITUDE (mV) 30 | 200 VDL 1200
30 Collar Locator -0.006 | 0 AMPLITUDE (mV) 100
30 Gamma Ray (GAPI) 130

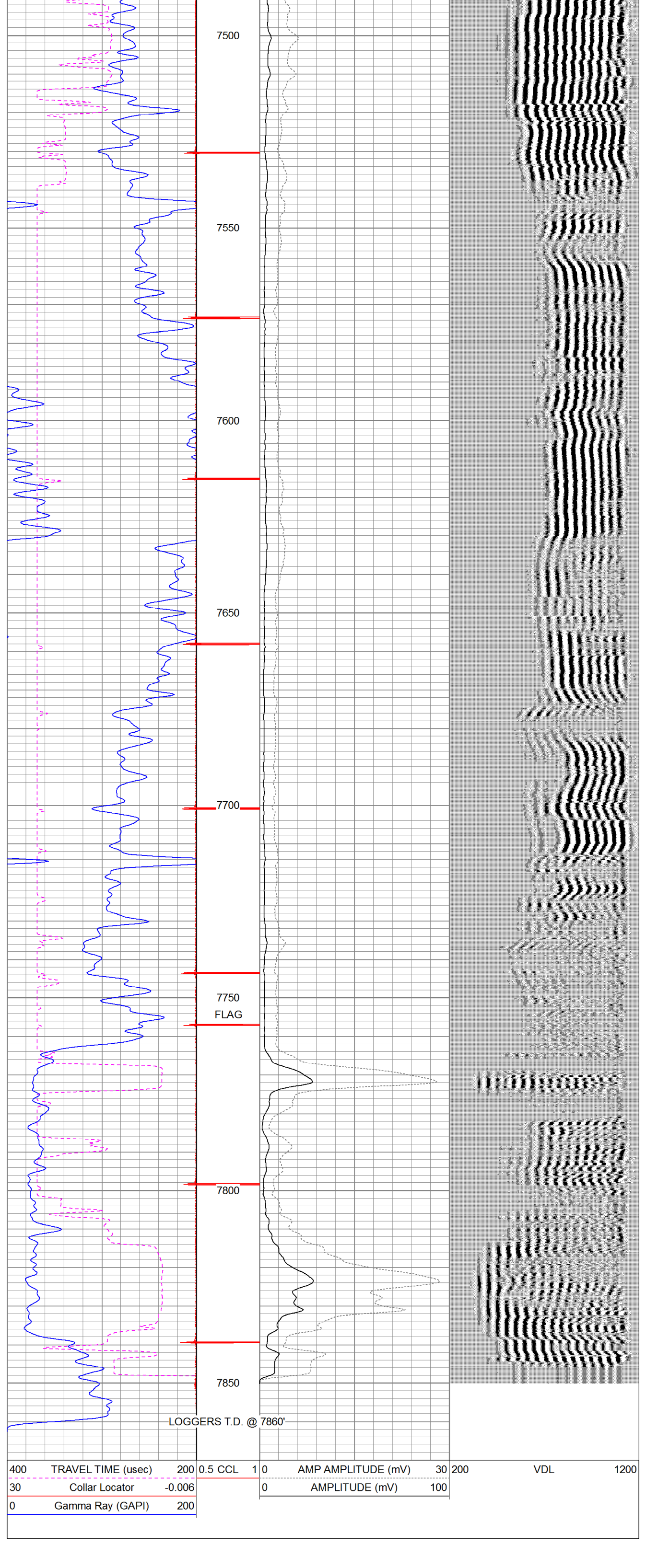
Database File: dfranch8-14cbl.db
Dataset Pathname: pass3
Presentation Format: cbl_drs
Dataset Creation: Thu Feb 09 15:12:05 2012 by Log Std Casedhole 10081
Charted by: Depth in Feet scaled 1:240

400 TRAVEL TIME (usec) 200 | 0.5 CCL 1 | 0 AMP AMPLITUDE (mV) 30 | 200 VDL 1200
30 Collar Locator -0.006 | 0 AMPLITUDE (mV) 100
0 Gamma Ray (GAPI) 200

400 TRAVEL TIME (usec) 200 | 0.5 CCL 1 | 0 AMP AMPLITUDE (mV) 30 | 200 VDL 1200
30 Collar Locator -0.006 | 0 AMPLITUDE (mV) 100
0 Gamma Ray (GAPI) 200

Database File: dfranch8-14cbl.db
Dataset Pathname: pass1
Presentation Format: cbl_drs
Dataset Creation: Thu Feb 09 15:04:46 2012 by Log Std Casedhole 10081
Charted by: Depth in Feet scaled 1:240

400 TRAVEL TIME (usec) 200 | 0.5 CCL 1 | 0 AMP AMPLITUDE (mV) 30 | 200 VDL 1200
30 Collar Locator -0.006 | 0 AMPLITUDE (mV) 100
0 Gamma Ray (GAPI) 200



400 TRAVEL TIME (usec) 200 | 0.5 CCL 1 | 0 AMP AMPLITUDE (mV) 30 | 200 VDL 1200
30 Collar Locator -0.006 | 0 AMPLITUDE (mV) 100
0 Gamma Ray (GAPI) 200