SUPERIOR WELL SERVICES

SUPERIOR
STERLING, CO
UNIT 0700

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

Company	NOBLE ENERGY
Well	FIVE RIVERS K 15-30D
Field	WATTENBERG
County	WELD
State	COLORADO

Company NOBLE ENERGY
Well FIVE RIVERS K 15-30D
Field WATTENBERG
County WELD State COLORADO

Location: API #: 05.123.32464
BHL: 70' FSL & 251' FEL SE SE
SEC. 9, TWP. 4N, RGE. 66W
SHL: 215' FNL & 246' FEL NE NE
SEC 9 TWP 4N RGE 66W

Other Services

Permanent Datum	GL	Elevation	4730
Log Measured From	KB		
Drilling Measured From	KB		

Elevation
K.B. 4745
D.F. 4744
G.L. 4730

Date	21-FEB-2011
Run Number	ONE
Depth Driller	7449
Depth Logger	7379
Bottom Logged Interval	7378
Top Log Interval	400
Open Hole Size	7-7/8
Type Fluid	WATER
Density / Viscosity	N/A
Max. Recorded Temp.	252°F
Estimated Cement Top	
Time Well Ready	MAST UNIT
Time Logger on Bottom	1-141/16#2
Equipment Number	T0700
Location	STERLING
Recorded By	LEROY HOBBS
Witnessed By	MITCH TRIMBLE

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	643.00
Prot. String				
Production String	4-1/2	11.6 / M-80	SURFACE	7437.00
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

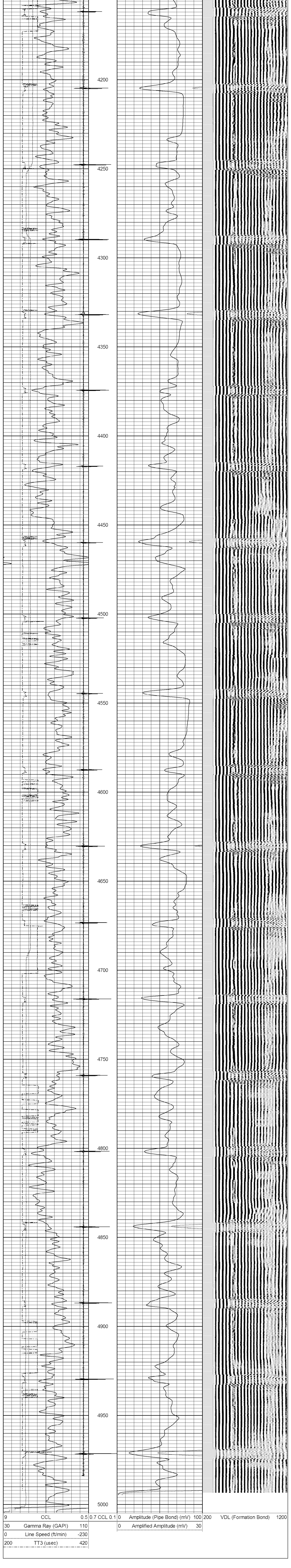
THANK YOU FOR USING SUPERIOR WELL SERVICES.

CORRECTED UP HOLE 6' TO PSI MIRCO LOG DATED FEBRUARY 15, 2011.

TWO WELL PAD, K15-30D NORTH WELL ON PAD.

Database File:	fiverivers15-30cbl_backup1.db
Dataset Pathname:	pass3
Presentation Format:	bond
Dataset Creation:	Mon Feb 21 10:01:11 2011 by Log Std Casedhole 07032
Charted by:	Depth in Feet scaled 1:240

9	CCL	0.5	0.7 CCL 0.1	0	Amplitude (Pipe Bond) (mV)	100	200	VDL (Formation Bond)	1200
30	Gamma Ray (GAPI)	110		0	Amplified Amplitude (mV)	30			
0	Line Speed (ft/min)	-230							
200	TT3 (usec)	420							



9 CCL 0.5	0.7 CCL 0.1	0 Amplitude (Pipe Bond) (mV) 100	200 VDL (Formation Bond) 1200
30 Gamma Ray (GAPI) 110		0 Amplified Amplitude (mV) 30	
0 Line Speed (ft/min) -230			
200 TT3 (usec) 420			

Database File: fiverivers15-30cbl.db
Dataset Pathname: pass2
Presentation Format: bond
Dataset Creation: Mon Feb 21 09:30:39 2011 by Log Std Casedhole 07032
Charted by: Depth in Feet scaled 1:240

9 CCL 0.5	0.7 CCL 0.1	0 Amplitude (Pipe Bond) (mV) 100	200 VDL (Formation Bond) 1200
0 Gamma Ray (GAPI) 200		0 Amplified Amplitude (mV) 30	
0 Line Speed (ft/min) -230			
200 TT3 (usec) 500			

9 CCL 0.5	0.7 CCL 0.1	0 Amplitude (Pipe Bond) (mV) 100	200 VDL (Formation Bond) 1200
0 Gamma Ray (GAPI) 200		0 Amplified Amplitude (mV) 30	
0 Line Speed (ft/min) -230			
200 TT3 (usec) 500			