J-W WIRELINE COMPANY

CEMENT BOND
GAMMA RAY
COLLAR CORRELATION LOG

Company NOBLE ENERGY INC.
Well FIVE RIVERS USX K 09-02D
Field WATTENBERG
County WELD
State COLORADO

Company	NOBLE ENERGY INC.
Well	FIVE RIVERS USX K 09-02D
Field	WATTENBERG
County	WELD
State	COLORADO

Location: API # : 05-123-30546-00
SHL: 1561' FNL & 1526 FWL SE/NW
BHL: 2205' FEL & 585' FNL NW/NE
SEC. 9 TWP.4N RGE. 66W
SEC TWP RGE

Other Services
NONE

Permanent Datum GROUND LEVEL Elevation 4699
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

Elevation
K.B. 4714
D.F. 4714
G.L. 4699

Date	04-AUGUST-2009		
Run Number	ONE		
Depth Driller	7770		
Depth Logger	7695		
Bottom Logged Interval	7688		
Top Log Interval	490		
Open Hole Size	7 7/8		
Type Fluid	WATER		
Density / Viscosity	---		
Max. Recorded Temp.	250		
Estimated Cement Top	610		
Time Well Ready	---		
Time Logger on Bottom	---		
Equipment Number	2405/GREEN		
Location	BRIGHTON		
Recorded By	HAYES		
Witnessed By	MR. 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 #	SURFACE	603
Prot. String				
Production String	4.5	11.6 #	SURFACE	7760
Liner				

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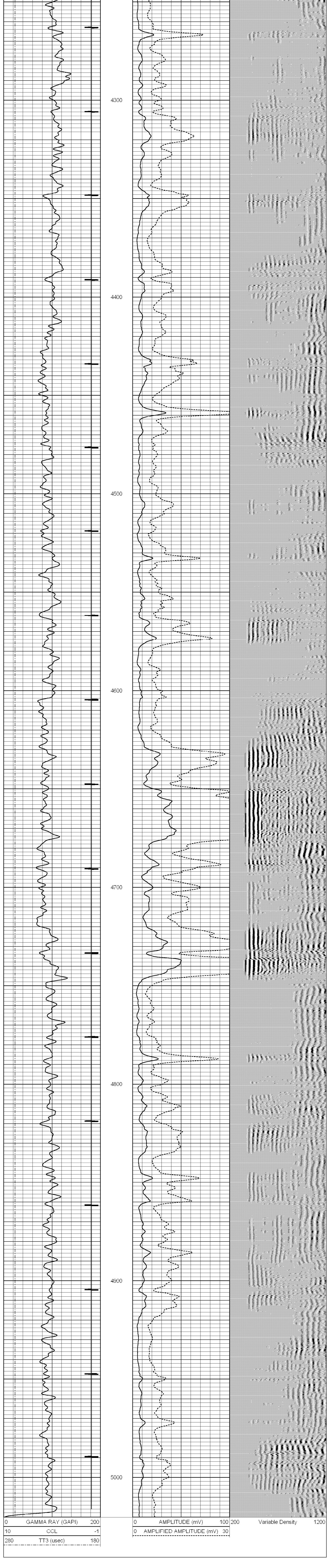
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

LOG CORRELATED TO HALLIBURTON LOG
DATED 15-JULY-2009

LOG SPLIT FOR CORRELATION PURPOSES

Database File: five rivers usx k09=02d.db
Dataset Pathname: pass3
Presentation Format: cblx
Dataset Creation: Tue Aug 04 16:32:33 2009 by Log Std Casedhole 08121
Charted by: Depth in Feet scaled 1:240



Database File: five rivers usx k09=02d.db
Dataset Pathname: pass2
Presentation Format: cblx
Dataset Creation: Tue Aug 04 15:46:14 2009 by Log Std Casedhole 08121
Charted by: Depth in Feet scaled 1:240

Calibration Report

Database File: five rivers usx k09=02d.db
Dataset Pathname: pass3
Dataset Creation: Tue Aug 04 16:32:33 2009 by Log Std Casedhole 08121

Cement Bond Log Calibration Report

Serial Number:	001		
Tool Model:	3_5		
Performed:	Tue Aug 04 15:27:28 2009		
Depth:	586.783	ft	
Casing Diameter:	4.5	in	
	3' Spacing	5' Spacing	
Signal Zero:	3	3	mV
Calibrated Amplitude:	81.1961	81.1961	mV
Reading at Signal Zero:	0.05	0	V
Reading in Free Pipe:	2.5	2.40361	V
Gain:	31.9168	32.5327	
Offset:	1.40416	3	

Gamma Ray Calibration Report

Serial Number:	t001	
Tool Model:	s_t001	
Performed:	Sun Jun 13 13:33:21 1993	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps