J-W WIRELINE COMPANY

CEMENT BOND
GAMMA RAY
COLLAR CORRELATION LOG

Company	NOBLE ENERGY INC.
Well	WALCKER USX AB 01-14 P
Field	WATTENBERG
County	WELD
State	COLORADO

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Field WATTENBERG
County WELD State COLORADO

Location: API #: 05-123-31171-00
660' FSL & 1980' FWL
SE SW
SEC. 1 TWP. 7N RGE. 64W
SEC TWP RGE

Other Services
NONE

Permanent Datum GROUND LEVEL Elevation 4828
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

Elevation
K.B. 4841
D.F. 4841
G.L. 4828

Date	31-AUGUST-2010
Run Number	ONE
Depth Driller	7200
Depth Logger	7140
Bottom Logged Interval	7139
Top Log Interval	1800
Open Hole Size	7 7/8
Type Fluid	WATER
Density / Viscosity	--
Max. Recorded Temp.	230
Estimated Cement Top	1982
Time Well Ready	--
Time Logger on Bottom	--
Equipment Number	2405/TECKO
Location	BRIGHTON
Recorded By	HAYES
Witnessed By	MR. ED LUCK

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	808
Prot. String				
Production String	4.5	11.6 #	SURFACE	7195
Liner				

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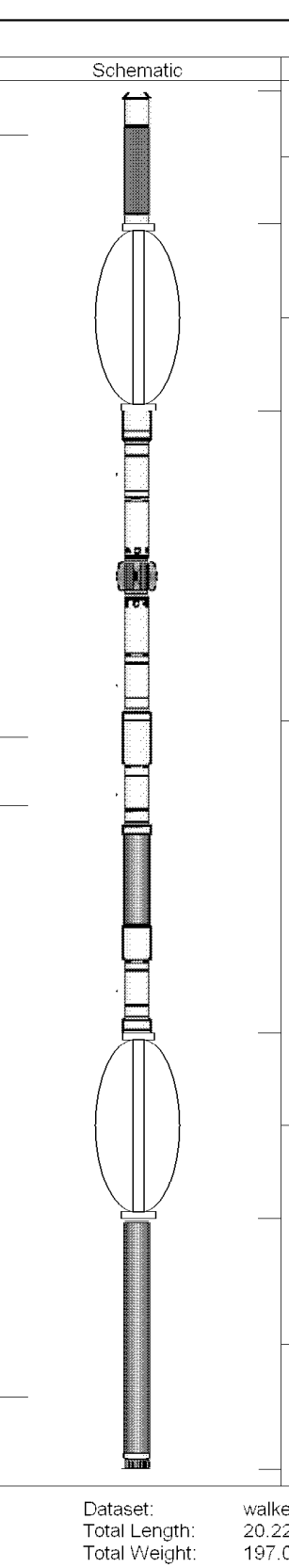
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 SD,DSN,AC,TR LOG
DATED 14-AUGUST-2010

LOG SPLIT FOR CORRELATION PURPOSES



Sensor	Offset (ft)	Description	Len (ft)	OD (in)	Wt (lb)
CCL	19.57	CCL-275tekco (2.75TEKCO) 2 3/4 TEK CCL Earth Mag	1.96	2.75	20.00
		CENT-TEKCO (102)	2.73	2.75	10.00
WVF3 WVF5	10.74 9.74	CBL-3_5tekold (3_5tekold001)	9.13	2.75	127.00
		CENT-TEKCO (101)	2.73	2.75	10.00
GR	1.06	GR-TEKCO (101SGR)	3.68	2.75	30.00

Dataset: walker usx ab 01-14p.db: field/well/run1/pass2
Total Length: 20.22 ft
Total Weight: 197.00 lb
O.D. 2.75 in

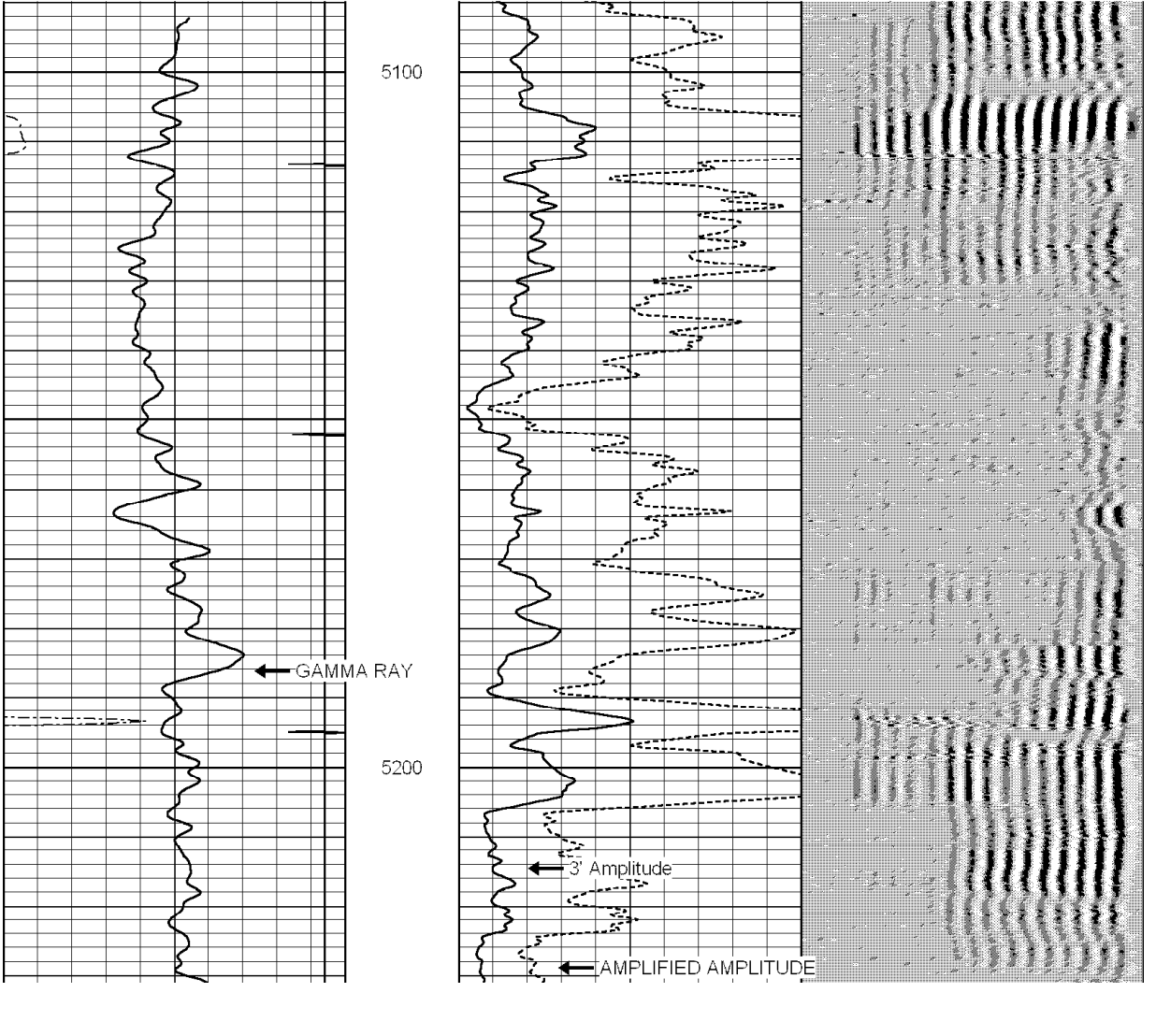
Database File: walker usx ab 01-14p.db
Dataset Pathname: pass2
Presentation Format: cblx
Dataset Creation: Tue Aug 31 10:14:47 2010 by Log Std Casedhole 08121
Charted by: Depth in Feet scaled 1:240

0 GAMMA RAY (GAPI) 200	0 AMPLITUDE (mV) 100	200 Variable Density 1200
12 CCL -0.75	0 AMPLIFIED AMPLITUDE (mV) 30	
300 TT3 (usec) 200		

0 GAMMA RAY (GAPI) 200	0 AMPLITUDE (mV) 100	200 Variable Density 1200
12 CCL -0.75	0 AMPLIFIED AMPLITUDE (mV) 30	
300 TT3 (usec) 200		

Database File: walker usx ab 01-14p.db
Dataset Pathname: pass1
Presentation Format: cblx
Dataset Creation: Tue Aug 31 09:37:55 2010 by Log Std Casedhole 08121
Charted by: Depth in Feet scaled 1:240

0 GAMMA RAY (GAPI) 200	0 AMPLITUDE (mV) 100	200 Variable Density 1200
12 CCL -0.75	0 AMPLIFIED AMPLITUDE (mV) 30	
300 TT3 (usec) 200		



Calibration Report

Database File: walker usx ab 01-14p.db
Dataset Pathname: pass2
Dataset Creation: Tue Aug 31 10:14:47 2010 by Log Std Casedhole 08121

Gamma Ray Calibration Report

Serial Number:	101SGR	
Tool Model:	TEKCO	
Performed:	Mon Jun 14 15:52:18 2010	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps

Cement Bond Log Calibration Report

Serial Number:	3_5tekold001		
Tool Model:	3_5tekold		
Performed:	Tue Aug 31 09:20:49 2010		
Depth:	1279.63	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:	0.04	0	V
Reading in Free Pipe:	2.45205	2.49878	V
Gain:	32.4189	31.2937	
Offset:	1.70324	3	