Gamma Ray / CCL
Acoustic Cement Bond Log

Warrior Energy Services Corp.

Company	XTO Energy, INC.
Well	R&G #26-3
Field	Ignacio Blanco / Fruitland Coal
County	LaPlata
State	Colorado

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Field Ingacio Blanco / Fruitland Coal
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Location
API # 05-067-09862
Sec. 26 Twn. 33N Rge. 07W
SHL: 1600' FSL & 1442' FEL

Other Services

Permanent Datum	Ground Level	Elevation	6506'
Log Measured From	K.B. 11 ft.		
Drilling Measured From	Kelly Bushing		

Elevation
K.B. 6517
D.F. 6516
G.L. 6506

Date	11-15-2011	
Run Number	ONE	
Depth Driller	OHTD-3298	PBTD-3285
Depth Logger	3217	
Bottom Logged Interval	3216	
Top Log Interval	Surface	
Open Hole Size	7.875"	
Type Fluid	Water	
Density / Viscosity	N/A	
Max. Recorded Temp.	N/A	
Estimated Cement Top	See log	
Time Well Ready	See Log	
Time Logger on Bottom	See Log	
Equipment Number	WL-5050	
Location	Farmington, NM	
Recorded By	Kevin Sparks	Engineer :
Witnessed By	Daniel Carney	Loren Ashcroft

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# / J-55	Surface	379
Prot. String				
Production String	5-1/2"	17# / J-55	Surface	3285
Liner				
Marker Joint	2667 to 2678			

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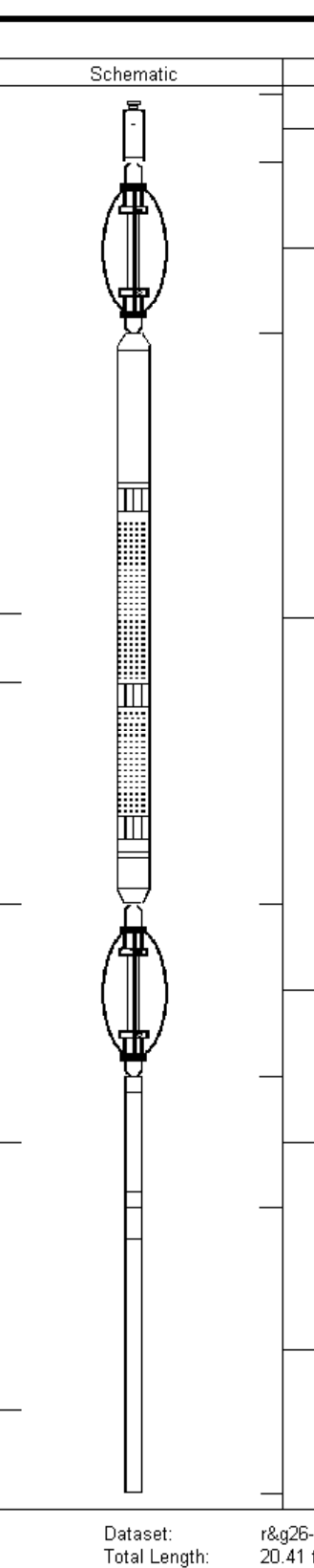
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

Correlated Bond Log to Weatherfords
Compensated Photo Density Dual Neutron Log Dated 11-6-2011
Adjusted -4 ft.
Ran Log with ZERO Surface Pressure



Sensor	Offset (ft)	Description	Len (ft)	OD (in)	Wt (lb)
		CHD1_4	1.00	1.44	1.00
		APD2.75	2.50	2.75	10.00
WVF3FT	12.83	CBLDEL-SIE202 (202-001)	8.33	2.75	75.00
WVF5FT	11.83				
WVFCAL	8.58				
		APD2.75	2.50	2.75	10.00
CCL	5.12	CCL-Tekco120 (120-001)	1.91	1.38	8.00
		GR-Tekco111 (111-001)	4.17	1.63	20.00
GR	1.21				

Dataset: r&g26-3(11-15-11).db: field/well/run1/pass4.1
Total Length: 20.41 ft
Total Weight: 124.00 lb
O.D. 2.75 in

Main Pass ZERO Pressure

Database File: r&g26-3(11-15-11).db
Dataset Pathname: pass4.1
Presentation Format: rbl3_55
Dataset Creation: Tue Nov 15 15:19:22 2011 by Calc Std Casedhole 08121
Charted by: Depth in Feet scaled 1:240

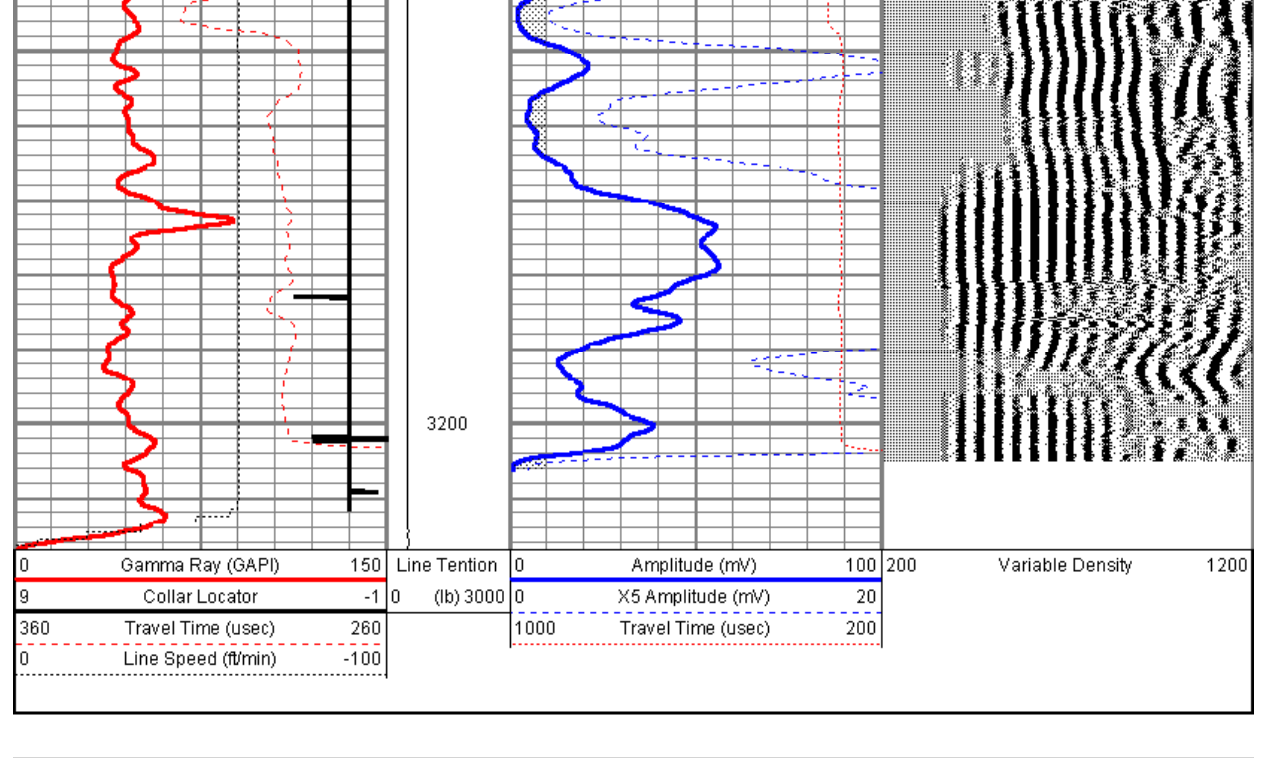
0 Gamma Ray (GAPI) 150	Line Tention	0 Amplitude (mV) 100	200 Variable Density 1200
9 Collar Locator -1	0 (lb) 3000	0 X5 Amplitude (mV) 20	
360 Travel Time (usec) 260		1000 Travel Time (usec) 200	
0 Line Speed (ft/min) -100			

0 Gamma Ray (GAPI) 150	Line Tention	0 Amplitude (mV) 100	200 Variable Density 1200
9 Collar Locator -1	0 (lb) 3000	0 X5 Amplitude (mV) 20	
360 Travel Time (usec) 260		1000 Travel Time (usec) 200	
0 Line Speed (ft/min) -100			

Repeat Section

Database File: r&g26-3(11-15-11).db
Dataset Pathname: pass2
Presentation Format: rbl3_55
Dataset Creation: Tue Nov 15 14:16:22 2011 by Log Std Casedhole 08121
Charted by: Depth in Feet scaled 1:240

0 Gamma Ray (GAPI) 150	Line Tention	0 Amplitude (mV) 100	200 Variable Density 1200
9 Collar Locator -1	0 (lb) 3000	0 X5 Amplitude (mV) 20	
360 Travel Time (usec) 260		1000 Travel Time (usec) 200	
0 Line Speed (ft/min) -100			



0 Gamma Ray (GAPI) 150	Line Tention	0 Amplitude (mV) 100	200 Variable Density 1200
9 Collar Locator -1	0 (lb) 3000	0 X5 Amplitude (mV) 20	
360 Travel Time (usec) 260		1000 Travel Time (usec) 200	
0 Line Speed (ft/min) -100			

Calibration Report

Database File: r&g26-3(11-15-11).db
Dataset Pathname: pass4.1
Dataset Creation: Tue Nov 15 15:19:22 2011 by Calc Std Casedhole 08121

Gamma Ray Calibration Report

Serial Number:	111-001	
Tool Model:	Tekco111	
Performed:	Mon Oct 31 09:46:59 2011	
Calibrator Value:	100.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	65.0	cps
Sensitivity:	0.8000	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	202-001	
Tool Model:	SIE202	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	251.527	ft

Master Calibration, performed Wed Nov 02 07:55:16 2011:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.001	1.622	0.000	71.921	42.500	1.000
CAL	-0.569	-0.380				
5'	0.000	1.531	0.000	71.921	46.973	-0.012
SUM						
S1						
S2						
S3						
S4						
S5						
S6						
S7						
S8						

Internal Reference Calibration, performed Wed Dec 31 17:00:00 1969:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.569	-0.380	1.000	0.000

Air Zero Calibration, performed Wed Dec 31 17:00:00 1969:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.000	0.000	0.000
5'	0.000	0.000	0.000
SUM			
S1			
S2			
S3			
S4			
S5			
S6			
S7			
S8			