JW WIRELINE COMPANY

CEMENT BOND
GAMMA RAY
COLLAR CORRELATION LOG

Company	TOP OPERATING COMPANY
Well	KINTZ 2
Field	WATTENBERG
County	WELD
State	COLORADO

Company TOP OPERATING COMPANY
Well KINTZ 2
Field WATTENBERG
County WELD State COLORADO

Location: API #: 05-123-36621-00
SHL: 1883' FNL & 920' FEL SENE
BHL: 1855' FSL & 2002' FEL NWSE
SEC. 8 TWP. 3N RGE. 68W
SEC TWP RGE

Other Services
NONE

Permanent Datum	GROUND LEVEL	Elevation 5079	Elevation K.B. 5092 D.F. 5092 G.L. 5079
Log Measured From	KELLY BUSHING		
Drilling Measured From	KELLY BUSHING		

Date	18-FEBUARY-2013
Run Number	ONE
Depth Driller	8275
Depth Logger	7971
Bottom Logged Interval	7964
Top Log Interval	2010
Open Hole Size	7 7/8
Type Fluid	WATER
Density / Viscosity	--
Max. Recorded Temp.	260
Estimated Cement Top	2128
Time Well Ready	--
Time Logger on Bottom	--
Equipment Number	2405/WHITE
Location	BRIGHTON
Recorded By	HAYES
Witnessed By	MR. DEAN ROGERS

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	--	SURFACE	430
Prot. String				
Production String	4.5	11.6#	SURFACE	TOTAL DEPTH
Liner				

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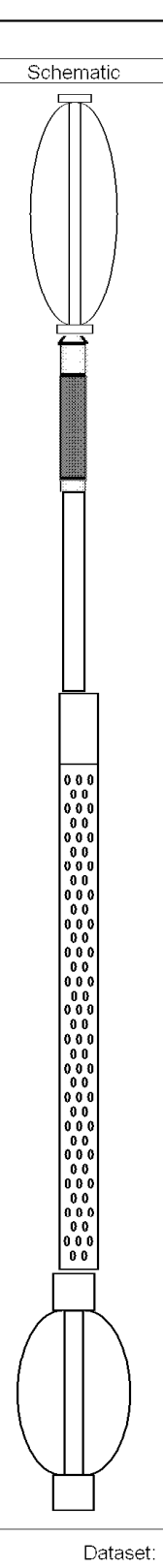
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 HRI, CD, CN LOG
DATED 03-FEBUARY-2013

LOG SPLIT FOR CORRELATION PURPOSES



Sensor	Offset (ft)	Description	Len (ft)	OD (in)	Wt (lb)
		CENT-A (1)	3.00	1.69	10.00
CCL	14.06	CCL-275tekco (2.75TEKCO) 2 3/4 TEK CCL Earth Mag	1.96	2.75	20.00
GR	11.49	GR-s_t001 (t001)	2.52	1.69	30.00
WVF5 WVF3	7.34 6.34	CBL-3_5 (001)	7.23	2.44	127.00
		CENT-B (2)	3.00	1.69	10.00

Dataset: kintz 2.db: field/well/run1/pass4
Total Length: 17.71 ft
Total Weight: 197.00 lb
O.D. 2.75 in

Database File:	kintz 2.db
Dataset Pathname:	pass4
Presentation Format:	cblx
Dataset Creation:	Mon Feb 18 22:51:22 2013 by Log SCH 111116
Charted by:	Depth in Feet scaled 1:240

30	Gamma Ray (GAPI)	130	0	3' Amplitude (mV)	100	200	Variable Density	1200
15	CCL	-0.25	0	Amplified Amplitude (mV)	30			
300	TT3 (usec)	200						

30	Gamma Ray (GAPI)	130	0	3' Amplitude (mV)	100	200	Variable Density	1200
15	CCL	-0.25	0	Amplified Amplitude (mV)	30			
300	TT3 (usec)	200						

Database File:	kintz 2.db
Dataset Pathname:	pass3
Presentation Format:	cblx
Dataset Creation:	Mon Feb 18 21:56:00 2013 by Log SCH 111116
Charted by:	Depth in Feet scaled 1:240

Calibration Report

Database File:	kintz 2.db
Dataset Pathname:	pass4
Dataset Creation:	Mon Feb 18 22:51:22 2013 by Log SCH 111116

Cement Bond Log Calibration Report

Serial Number:	001		
Tool Model:	3_5		
Performed:	Mon Feb 18 21:39:28 2013		
Depth:	2234.13	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	2.5	V
Gain:	31.9168	31.2784	
Offset:	1.40416	3	

Gamma Ray Calibration Report

Serial Number:	t001	
Tool Model:	s_t001	
Performed:	Sun Jun 13 14:33:21 1993	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps