J-W WIRELINE COMPANY

CEMENT BOND
GAMMA RAY
COLLAR CORRELATION LOG

Company CHESAPEAKE
Well STATE PAWNEE 2-26-1H
Field NA
County WELD
State COLORADO

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Well STATE PAWNEE 2-26-1H
Field NA
County WELD State COLORADO
Location: API #: 05-123-31432-00
SE/4 SE/4
SEC 16 TWP 9N RGE 67W

Other Services
GAUGE RING
6.125"

Permanent Datum	GROUND LEVEL	Elevation NA	Elevation
Log Measured From	GROUND LEVEL		K.B. 15'
Drilling Measured From	GROUND LEVEL		D.F. NA G.L. NA

Date	18-AUG-2011
Run Number	ONE
Depth Driller	NA
Depth Logger	6847
Bottom Logged Interval	6847
Top Log Interval	1630
Open Hole Size	NA
Type Fluid	WATER / OIL
Density / Viscosity	—
Max. Recorded Temp.	NOT RECORDED
Estimated Cement Top	1860
Time Well Ready	—
Time Logger on Bottom	—
Equipment Number	2337/20
Location	BRIGHTON
Recorded By	GREG JACKSON
Witnessed By	MR. ROD COLLINS

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String				
Prot. String				
Production String	7	26	SURFACE	NA
Liner	4 1/2	11.6	6827	NA

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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.

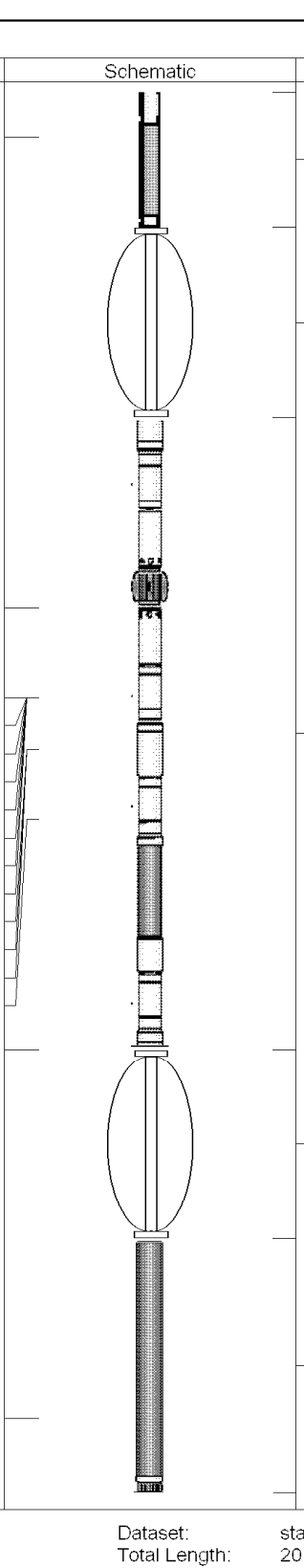
Comments

LOG NOT CORRELATED

ZERO AT GROUND LEVEL

LOG RAN UNDER ZERO PSI AT SURFACE

THANK YOU FOR CHOOSING J-W WIRELINE

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
CCL	19.56		CCL-275tekco (2.75TEKCO) 2.75" TEK CCL Earth Mag	1.96	2.75	20.00
			CENT-TEKCO (101)	2.73	2.75	10.00
TEMP	12.77					
WVFS1	11.48		275CTEKSECWTWSLCANS-275RIB (1239.13 2 3/4" (R.I.B.) TOOL 3FT, 5FT and 8EA RIB SIGNALS 400 DEG "F" @20K PSI With Sliding Cans For Pressure Ballance		2.75	102.00
WVFS2	11.48					
WVFS3	11.48					
WVFS4	11.48					
WVFS5	11.48					
WVFS6	11.48					
WVFS7	11.48					
WVFS8	11.48					
WVF3FT	10.73					
WVFCAL	10.73					
WVFSYNC	10.73					
WVF5FT	9.73					
WVFTEMP	6.40					
			CENT-TEKCO (101)	2.73	2.75	10.00
			GR-TEKCO (101sgr) 2.75 HIGH TEMP LOGGING GR	3.67	2.75	25.00
GR	1.06					

Dataset: state 2-26-1_cbl.db: field/well/run1/pass4
Total Length: 20.21 ft
Total Weight: 167.00 lb
O.D. 2.75 in

Database File: state 2-26-1_cbl.db
Dataset Pathname: pass4
Presentation Format: scbl_dr
Dataset Creation: Thu Aug 18 13:00:40 2011 by Log Std Casedhole 10121
Charted by: Depth in Feet scaled 1:240

14	Collar Locator	-1	0	Amplified Amplitude (mV)	30	200 Variable Density 1200
0	Gamma Ray (GAPI)	180	0	3' Amplitude (mV)	100	
320	TT3FT (usec)	220				

Calibration Report

Database File: state 2-26-1_cbl.db
Dataset Pathname: pass4
Dataset Creation: Thu Aug 18 13:00:40 2011 by Log Std Casedhole 10121

Gamma Ray Calibration Report

Serial Number: 101sgr
Tool Model: TEKCO
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

Segmented Cement Bond Log Calibration Report

Serial Number: 1234
Tool Model: 275RIB

Calibration Casing Diameter: 7.000 in
Calibration Depth: 1424.558 ft

Master Calibration, performed Thu Aug 18 12:36:55 2011:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	1.569	3.000	62.165	37.705	3.000
CAL	0.000	2.469				
5'	0.000	2.485	3.000	62.165	23.805	3.000
SUM						
S1	0.000	0.708	0.000	100.000	141.241	0.000
S2	0.000	0.567	0.000	100.000	176.309	0.000
S3	0.000	0.728	0.000	100.000	137.325	0.000
S4	0.000	1.308	0.000	100.000	76.424	0.000
S5	0.000	1.989	0.000	100.000	50.265	0.000
S6	0.000	2.068	0.000	100.000	48.356	0.000
S7	0.000	1.739	0.000	100.000	57.497	0.000
S8	0.000	1.118	0.000	100.000	89.462	0.000

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	0.000	2.469	1.000	0.000

Air Zero Calibration, performed Mon Sep 11 12:40:00 2006:

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

Temperature Calibration Report

Serial Number: 1234
Tool Model: 275RIB
Performed: Thu Apr 07 09:10:24 2011

	Reference	Reading
Low Reference:	75.00 degF	0.00 usec
High Reference:	400.00 degF	1282.00usec

Gain: 0.25
Offset: 45.00
Delta Spacing 1