J-W WIRELINE COMPANY

CEMENT BOND GAMMA RAY COLLAR LOG

Company	NOBLE ENERGY INC.
Well	SEYLER B 10-62-1HN
Field	WATTENBERG
County	WELD
State	COLORADO

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Well SEYLER B 10-62-1HN
Field WATTENBERG
County WELD State COLORADO

Location: API #: 05-123-37727-00
SW SW
SEC. 10 TWP. 5N RGE. 64W
BHL: 330' FSL & 700' FEL
SEC TWP RGE

Other Services
NONE

Permanent Datum GROUND LEVEL Elevation 4582
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

Elevation
K.B. 4606
D.F. ---
G.L. 4582

Date	23-JANUARY-2014
Run Number	ONE
Depth Driller	10738
Depth Logger	6819
Bottom Logged Interval	6818
Top Log Interval	SURFACE
Open Hole Size	8 3/4
Type Fluid	WATER
Density / Viscosity	---
Max. Recorded Temp.	230
Estimated Cement Top	220
Time Well Ready	---
Time Logger on Bottom	---
Equipment Number	2405/TECKO
Location	BRIGHTON
Recorded By	HAYES
Witnessed By	MR. BILL MANSFIELD

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	9 5/8	36#	SURFACE	619.2
Prot. String				
Production String	4.5	11.6#	6901.2	10723
Liner	7.0	23#	SURFACE	7017

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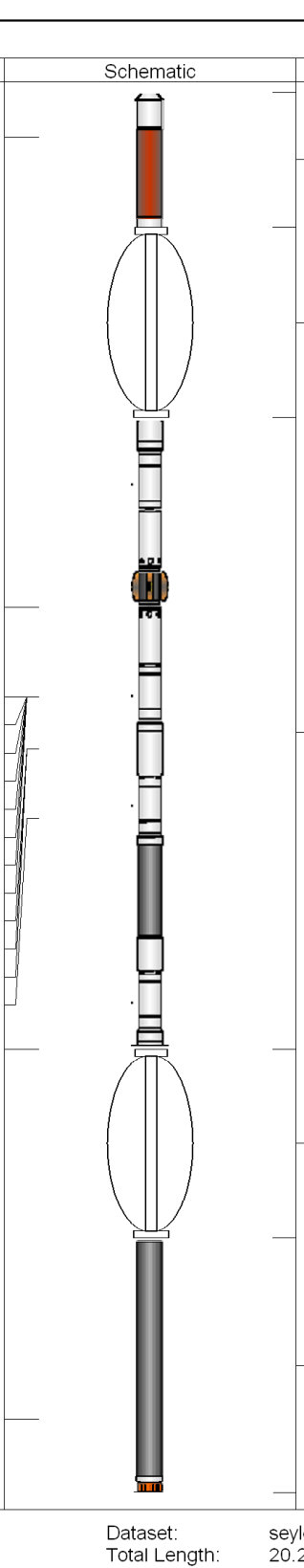
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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



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 (101)	2.73	2.75	10.00
TEMP	12.78				
WVFS1	11.49	275CTEKSECWTWSLCANS-275RIB (123 2 3/4" (R.I.B.) TOOL 3FT, 5FT and 8EA RIB SIGNALS 400 DEG "F" @20K PSI With Sliding Cans For Pressure Ballance	9.13	2.75	102.00
WVFS2	11.49				
WVFS3	11.49				
WVFS4	11.49				
WVFS5	11.49				
WVFS6	11.49				
WVFS7	11.49				
WVFS8	11.49				
WVF3FT	10.74				
WVFCAL	10.74				
WVFSYNC	10.74				
WVF5FT	9.74				
WVFTEMP	6.41				
		CENT-TEKCO (101)	2.73	2.75	10.00
		GR-TEKCO (101sgr)	3.68	2.75	30.00
GR	1.06				

Dataset: seyler b 10-62-1hn.db: field/well/run1/pass2
Total Length: 20.22 ft
Total Weight: 172.00 lb
O.D. 2.75 in

Database File: seyler b 10-62-1hn.db
Dataset Pathname: pass2
Presentation Format: scbl01
Dataset Creation: Fri Jan 24 03:23:57 2014 by Log SCH 111116
Charted by: Depth in Feet scaled 1:240

Calibration Report

Database File: seyler b 10-62-1hn.db
Dataset Pathname: pass2
Dataset Creation: Fri Jan 24 03:23:57 2014 by Log SCH 111116

Gamma Ray Calibration Report

Serial Number:	101sgr	
Tool Model:	TEKCO	
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

Segmented Cement Bond Log Calibration Report

Serial Number:	1234	
Tool Model:	275RIB	
Calibration Casing Diameter:	7.000	in
Calibration Depth:	672.592	ft

Master Calibration, performed Thu Jan 23 20:21:24 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	2.500	3.000	62.165	23.666	3.000
CAL	0.000	0.209				
5'	0.000	2.423	3.000	62.165	24.419	3.000
SUM						
S1	0.000	1.295	0.000	100.000	77.200	0.000
S2	0.000	1.807	0.000	100.000	55.341	0.000
S3	0.000	1.686	0.000	100.000	59.295	0.000
S4	0.000	1.471	0.000	100.000	67.983	0.000
S5	0.000	1.870	0.000	100.000	53.466	0.000
S6	0.000	1.602	0.000	100.000	62.427	0.000
S7	0.000	1.079	0.000	100.000	92.712	0.000
S8	0.000	1.030	0.000	100.000	97.094	0.000

Internal Reference Calibration, performed Wed Dec 31 18:00:00 1969:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.000	0.209	1.000	0.000

Air Zero Calibration, performed Thu Oct 24 21:04:44 2013:

	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:	Fri Apr 19 20:17:41 2013	
	Reference	Reading
Low Reference:	300.00 degF	50.00 usec
High Reference:	400.00 degF	300.00 usec
Gain:	0.40	
Offset:	2.50	
Delta Spacing	1	