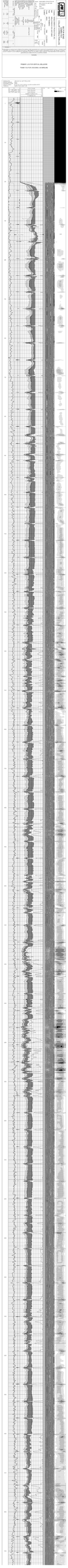

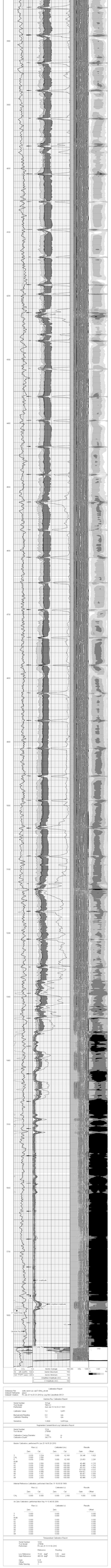

J-W WIRELINE COMPANY

SECTOR BOND
GAMMA RAY
COLLAR CORREALTION LOG

Company NOBLE ENERGY PRODUCTION, INC.
Well WELLS RANCH USX AE07-99HZ
Field WATTENBERG
County WELD
State COLORADO

Company	NOBLE ENERGY PRODUCTION, INC.
Well	WELLS RANCH USX AE07-99HZ
Field	WATTENBERG
County	WELD
State	COLORADO

Location: API #: 05-123-31017
NE/NW
BHL: 1360' S & 670' E
SEC 7 TWP 6N RGE 62W

Other Services
NONE

Permanent Datum GROUND LEVEL Elevation 4904
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

Elevation
K.B. 4920
D.F. NA
G.L. 4904

Date	25-JUN-2010	
Run Number	ONE	
Depth Driller	10600	
Depth Logger	5883	
Bottom Logged Interval	5882	LINER TOP @ 5850
Top Log Interval	SURFACE	
Open Hole Size	12 1/4	
Type Fluid	WATER	
Density / Viscosity	--	
Max. Recorded Temp.	156 F @ LINER TOP	
Estimated Cement Top	295	
Time Well Ready	--	
Time Logger on Bottom	--	
Equipment Number	2337/CR30/19-266	
Location	BRIGHTON	
Recorded By	GREG JACKSON	
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	711
Prot. String				
Production String	7	26	SURFACE	6968
Liner	4 1/2	11.6	5850	10580

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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

PRIMARY LOG FOR VERTICAL WELLBORE

THANK YOU FOR CHOOSING J-W WIRELINE

Database File: wells ranch usx ae07-99hz_cbl.db
Dataset Pathname: pass2
Presentation Format: scbl01
Dataset Creation: Fri Jun 25 14:25:33 2010 by Log Std Casedhole 08121
Charted by: Depth in Feet scaled 1:240

-4 CCL 1	0 Sector Average 150	200 VDL 1200	1 VAD 8
30 GR (GAPI) 130	0 Sector Maximum 150		10 60
320 TT3FT (usec) 220	0 Sector Minimum 150		■ ▨ ▒ ░
	0 Amplified Amplitude (mV) 30		
	0 3' Amplitude (mV) 100		

Calibration Report

Database File: wells ranch usx ae07-99hz_cbl.db
Dataset Pathname: pass2
Dataset Creation: Fri Jun 25 14:25:33 2010 by Log Std Casedhole 08121

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:	343.775	ft

Master Calibration, performed Fri Jun 25 14:05:26 2010:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.030	1.534	3.000	62.165	39.346	1.820
CAL	0.000	2.500				
5'	0.030	2.500	3.000	62.165	23.953	2.281
SUM						
S1	0.030	2.500	0.000	100.000	40.486	-1.215
S2	0.030	2.500	0.000	100.000	40.486	-1.215
S3	0.030	1.687	0.000	100.000	60.332	-1.810
S4	0.030	1.020	0.000	100.000	101.038	-3.031
S5	0.030	0.988	0.000	100.000	104.427	-3.133
S6	0.030	1.187	0.000	100.000	86.417	-2.593
S7	0.030	1.915	0.000	100.000	53.051	-1.592
S8	0.030	2.500	0.000	100.000	40.486	-1.215

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	2.500	1.000	0.000

Air Zero Calibration, performed Mon Sep 11 13:40:00 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:	Fri Jun 25 13:11:59 2010	
	Reference	Reading
Low Reference:	75.00 degF	0.00 usec
High Reference:	400.00 degF	1282.00usec
Gain:	0.25	
Offset:	10.00	
Delta Spacing	1	