NABORS
COMPLETION
& PRODUCTION
SERVICES CO.

GAMMA RAY CCL CEMENT BOND VDL LOGGED @ 1000 PSI

Company	NOBLE ENERGY INC.
Well	JEANIE AB10-01R
Field	TOM CAT
County	WELD
State	COLORADO

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Well JEANIE AB10-01R
Field TOM CAT
County WELD State COLORADO

Location: API #: 0512336262
1440' FNL & 780' FEL
SE/NE
SEC 10 TWP 7N RGE 64W

Other Services

Permanent Datum GL Elevation 4832
Log Measured From KB
Drilling Measured From KB

Elevation
K.B. 4845
D.F. 4845
G.L. 4832

Date	JANUARY 7, 2013
Run Number	ONE
Depth Driller	9027
Depth Logger	8876
Bottom Logged Interval	8875
Top Log Interval	SURFACE
Open Hole Size	8-3/4
Type Fluid	WATER
Density / Viscosity	N/A
Max. Recorded Temp.	260 DEG. F
Estimated Cement Top	6154
Time Well Ready	LEED RIG
Time Logger on Bottom	2-3/4 PROBE 110803
Equipment Number	4838
Location	45
Recorded By	GREG NOLAN
Witnessed By	BRIAN MURRAY

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	36# J-55	13	884.5
Prot. String				
Production String	7	26# L-80	13	9020
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.

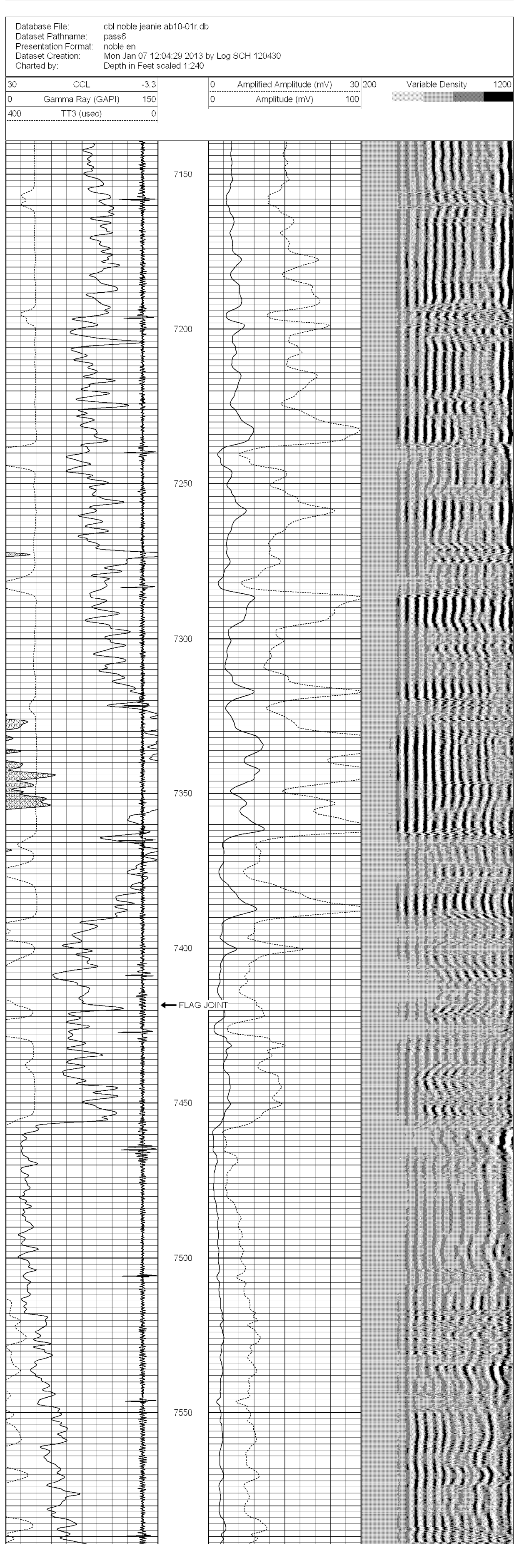
Comments

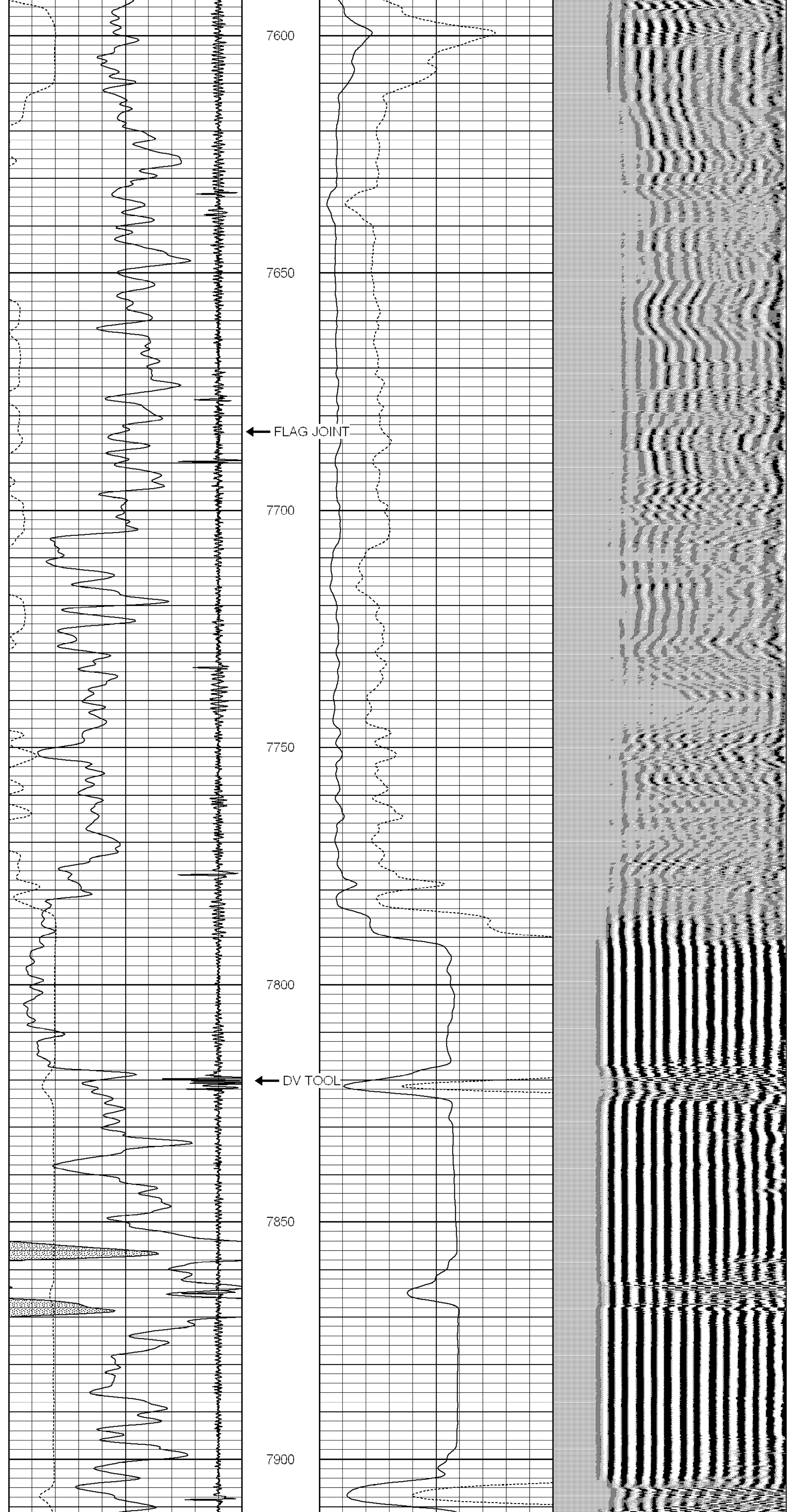
THANK YOU FOR CHOOSING NCPS!!!
LOG CORRELATED TO HES ARRAY COMP., TRUE RESISTIVITY,
SPECTRAL DENSITY, DUAL SPACED NEUTRON LOG DATED 14-DEC-12
WCR 80 & WCR 55, N2, E1, S.4, W.1, N INTO

Database File:	cbl noble jeanie ab10-01r.db
Dataset Pathname:	pass8
Presentation Format:	noble en
Dataset Creation:	Mon Jan 07 12:34:17 2013 by Log SCH 120430
Charted by:	Depth in Feet scaled 1:240

Database File: cbl noble jeanie ab10-01r.db
Dataset Pathname: pass7
Presentation Format: noble en
Dataset Creation: Mon Jan 07 12:12:38 2013 by Log SCH 120430
Charted by: Depth in Feet scaled 1:240

Database File: cbl noble jeanie ab10-01r.db
Dataset Pathname: pass6
Presentation Format: noble en
Dataset Creation: Mon Jan 07 12:04:29 2013 by Log SCH 120430
Charted by: Depth in Feet scaled 1:240





Database File: cbl noble jeanie ab10-01r.db
Dataset Pathname: pass5
Presentation Format: noble en
Dataset Creation: Mon Jan 07 11:42:36 2013 by Log SCH 120430
Charted by: Depth in Feet scaled 1:240

Calibration Report

Database File: cbl noble jeanie ab10-01r.db
Dataset Pathname: pass5
Dataset Creation: Mon Jan 07 11:42:36 2013 by Log SCH 120430

Gamma Ray Calibration Report

Type / Serial: Probe275dig / 101010

SHOP CALIBRATION Fri Dec 28 08:52:15 2012

	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	1.0				cps
		0.6800			GAPI/cps

PRIMARY VERIFICATION

Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

BEFORE SURVEY VERIFICATION

Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

AFTER SURVEY VERIFICATION

Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

Cement Bond Log Calibration Report

Serial Number: 110803
Tool Model: Probe275Digital
Performed: Mon Jan 07 11:13:17 2013

Depth: 1003.87 ft
Casing Diameter: 7 in

	3' Spacing	5' Spacing	
Signal Zero:	1.5	0	mV
Calibrated Amplitude:	62.1651	62.1651	mV
Reading at Signal Zero:	-0.00576172	-0.00595703	V
Reading in Free Pipe:	2.49858	2.49695	V
Gain:	24.2239	24.8372	
Offset:	1.63957	0.147956	