J-W WIRELINE COMPANY

CEMENT BOND
GAMMA RAY
COLLAR LOG

Company NOBLE ENERGY INC.
Well DINNEL C 27-28D
Field WATTENBERG
County WELD
State COLORADO

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Well DINNEL C 27-28D
Field WATTENBERG
County WELD State COLORADO

Location: API # : 05-123-31922-00
SHL: 601' FSL & 1974' FWL SE/SW
BHL: 150' FSL & 2550' FEL SW/SE
SEC. 22 TWP. 4N RGE. 64W
SEC TWP RGE

Other Services
NONE

Permanent Datum GROUND LEVEL Elevation 4671
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

Elevation
K.B. 4684
D.F. 4684
G.L. 4671

Date	30-NOVEMBER-2010
Run Number	ONE
Depth Driller	7107
Depth Logger	7029
Bottom Logged Interval	7022
Top Log Interval	SURFACE
Open Hole Size	7 7/8
Type Fluid	WATER
Density / Viscosity	--
Max. Recorded Temp.	240
Estimated Cement Top	2030
Time Well Ready	--
Time Logger on Bottom	--
Equipment Number	2405/YELLOW
Location	BRIGHTON
Recorded By	HAYES
Witnessed By	MR. CASEY RUPPEL

Borehole Record

Run Number	Bit	From	To

Tubing Record

Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	8 5/8	24#	SURFACE	700
Prot. String				
Production String	4.5	11.6 #	SURFACE	7097
Liner				

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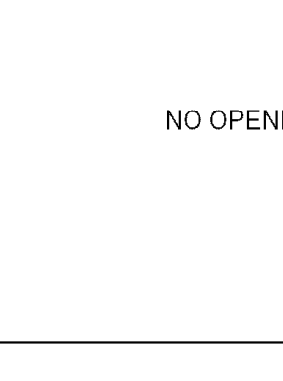
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

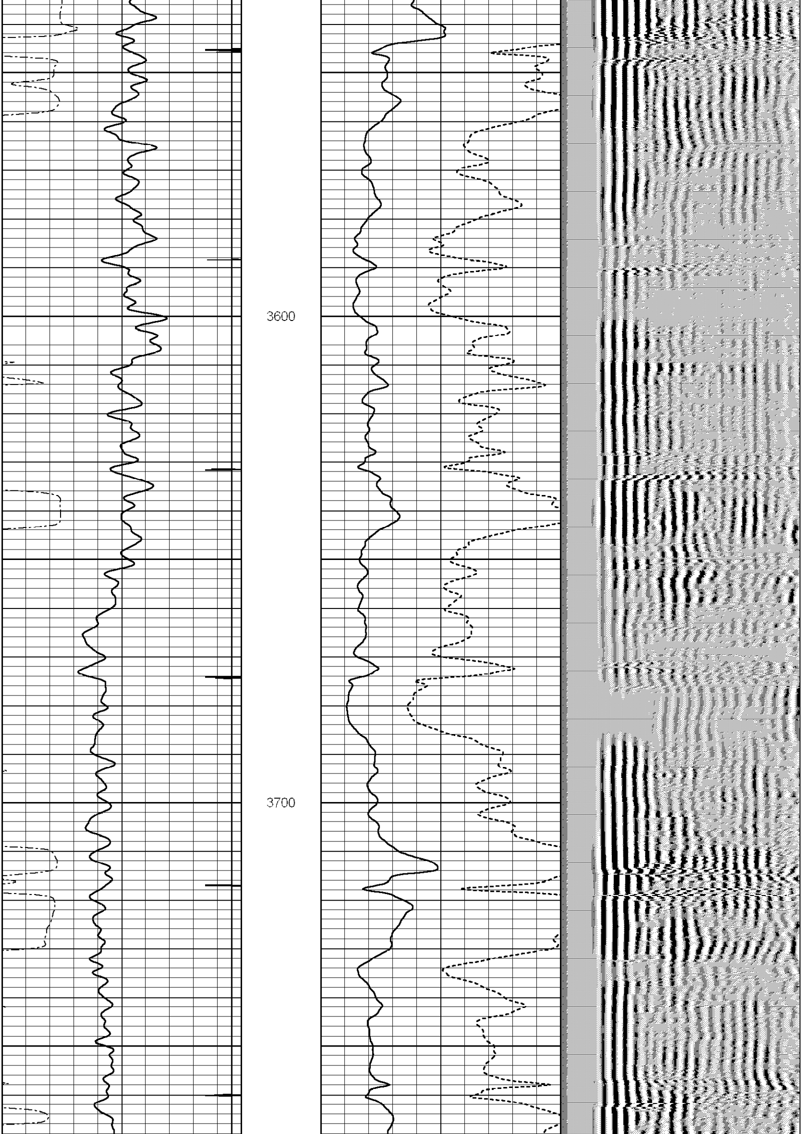
Comments

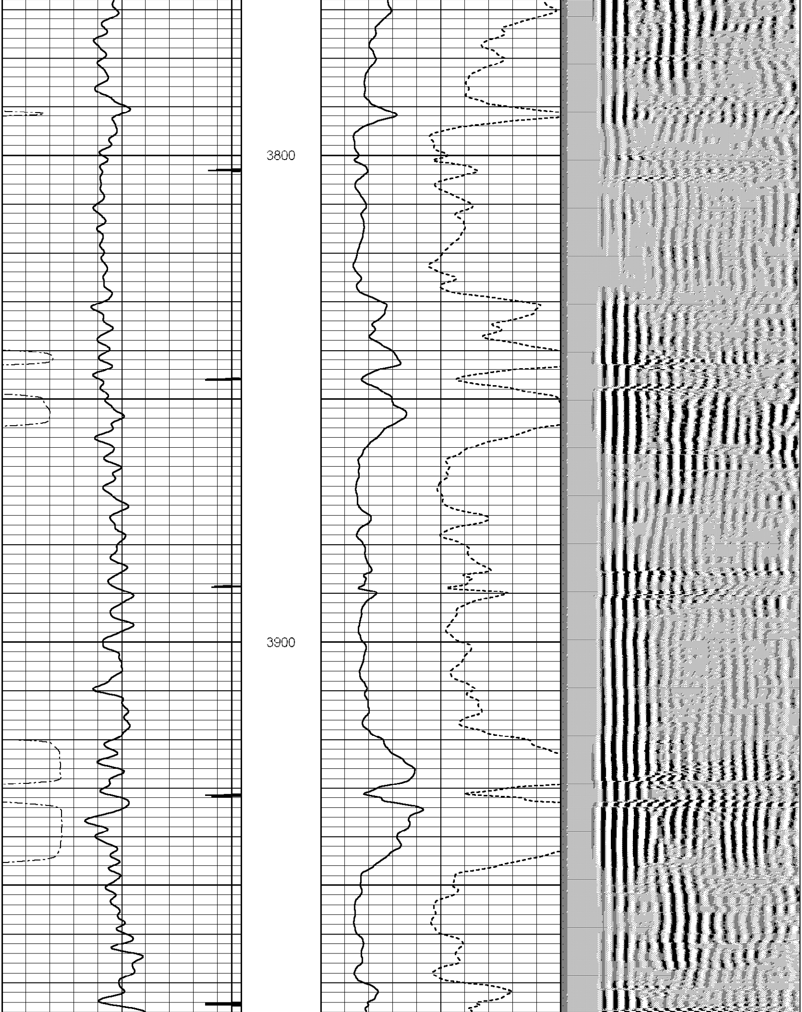
NO OPENHOLE LOGS TO CORRELATE

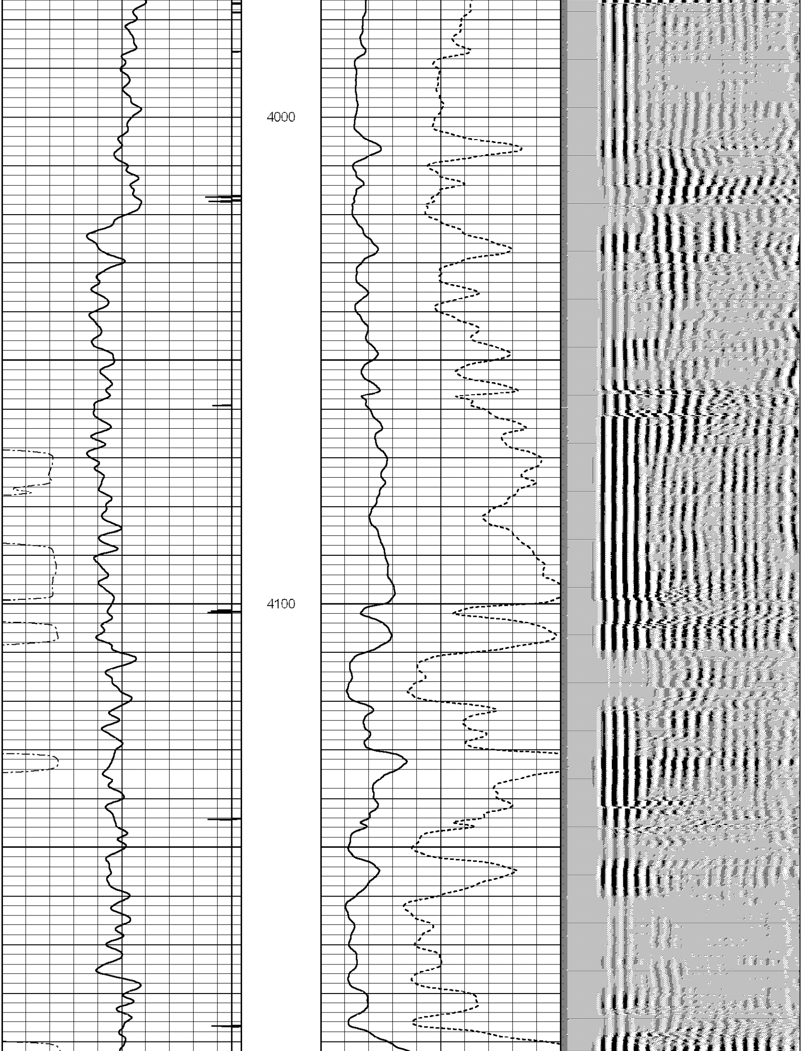
Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			CENT-A (1)	3.00	1.69	10.00
CCL	13.25		CCL-GR_1_3/8 (001) 1 3/8 titan ccl	1.00	1.38	11.00
GR	11.49		GR-s_t001 (t001)	2.52	1.69	30.00
WVF5 WVF3	7.34 6.34		CBL-3_5 (001)	7.23	2.44	127.00
			CENT-B (2)	3.00	1.69	10.00

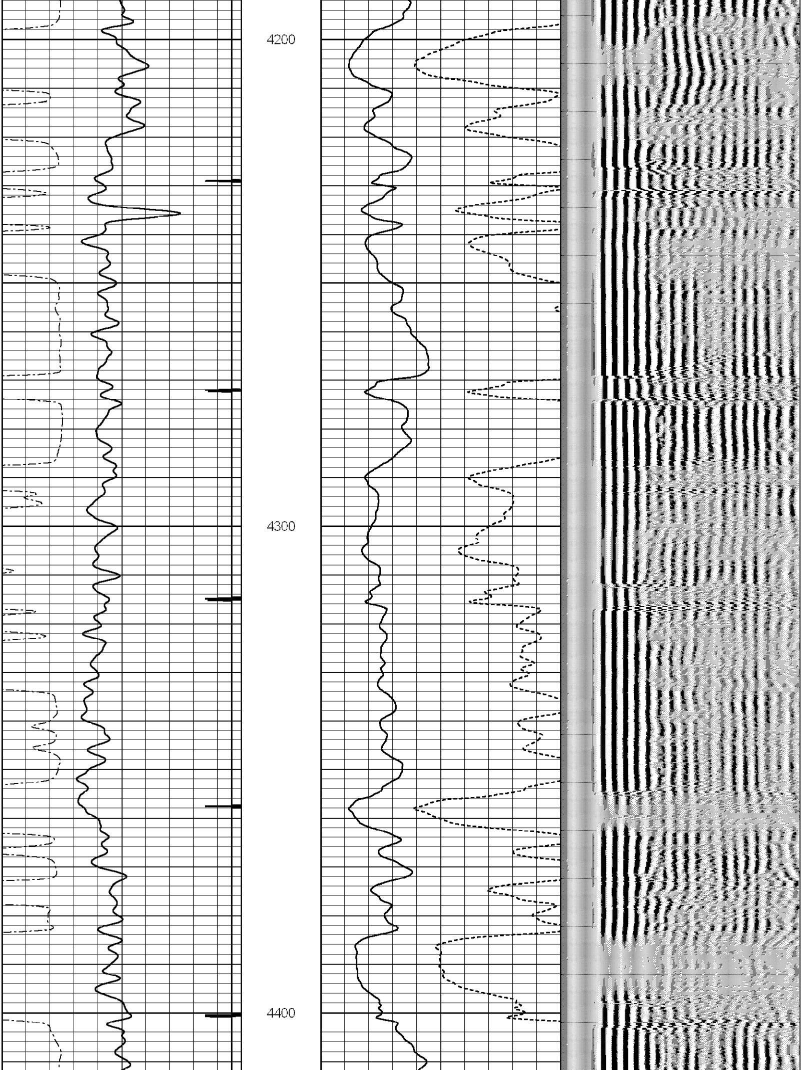
Dataset: dinnel c 27-28d.db: field/well/run1/pass1
Total Length: 16.75 ft
Total Weight: 188.00 lb
O.D. 2.44 in

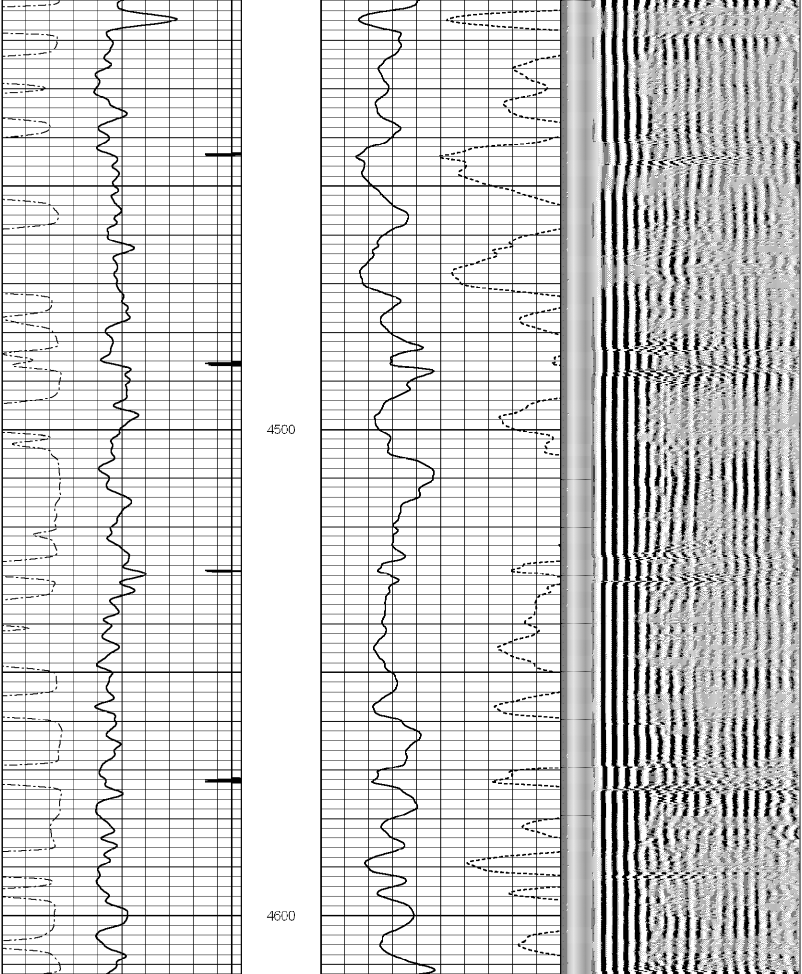
Database File: dinnel c 27-28d.db
Dataset Pathname: pass1
Presentation Format: cblx
Dataset Creation: Tue Nov 30 11:19:31 2010 by Log Std Casedhole 08121
Charted by: Depth in Feet scaled 1:240

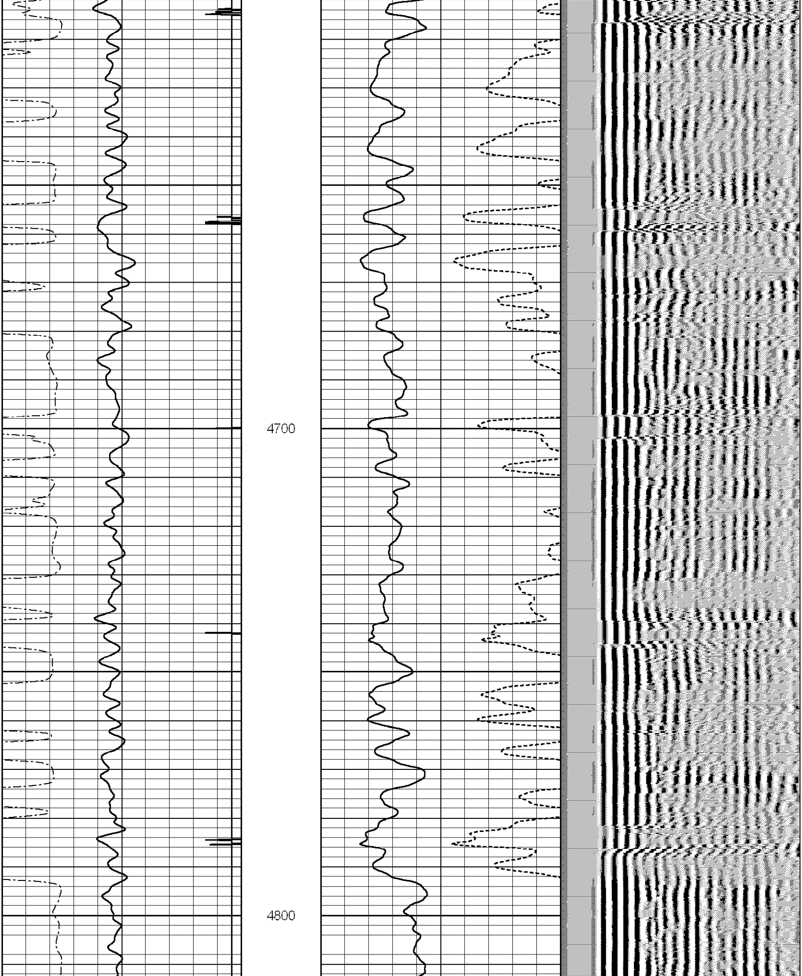


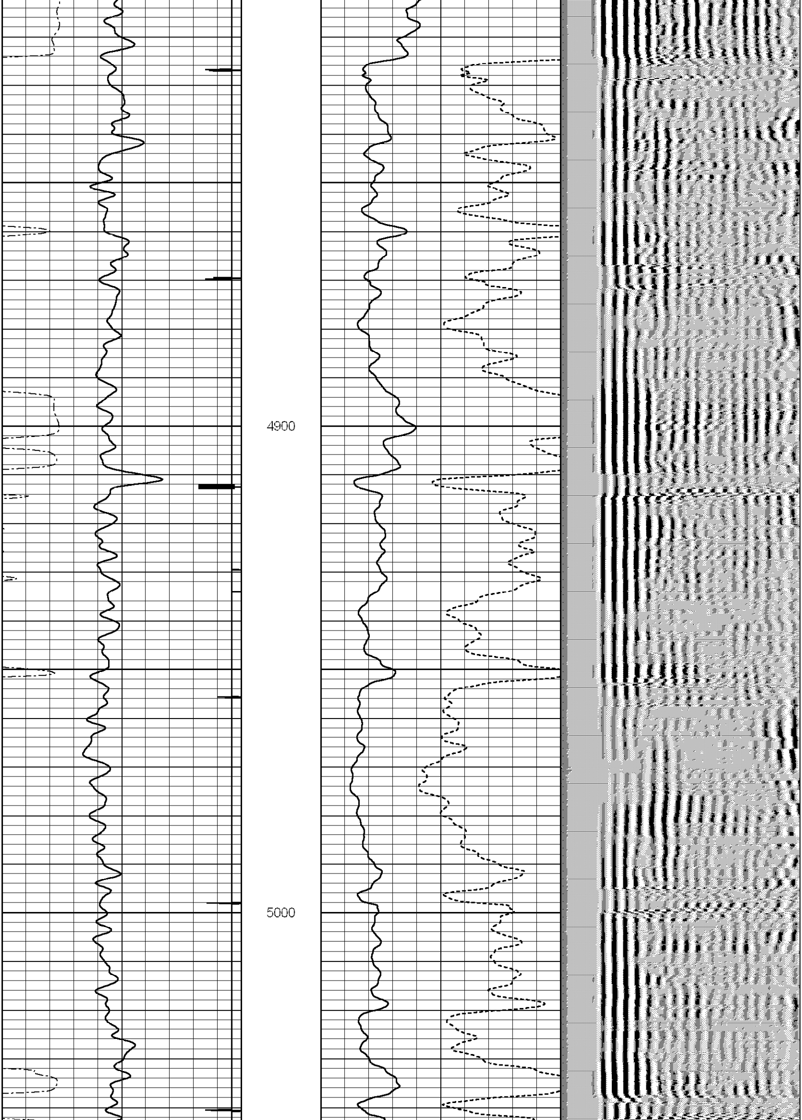


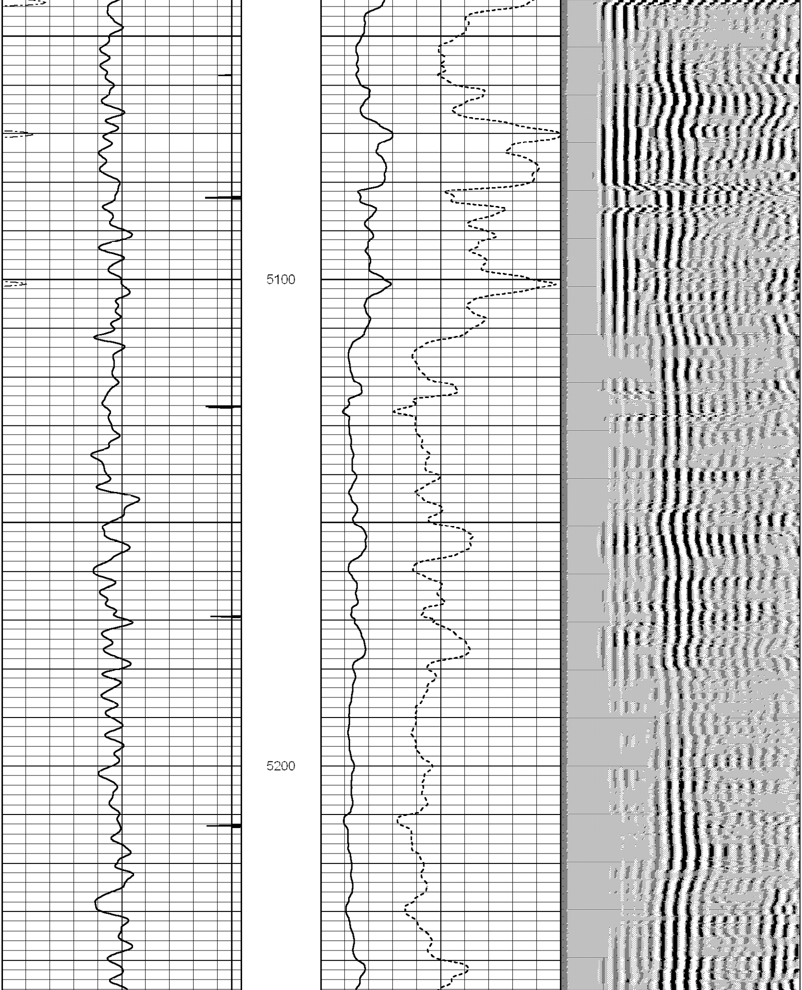


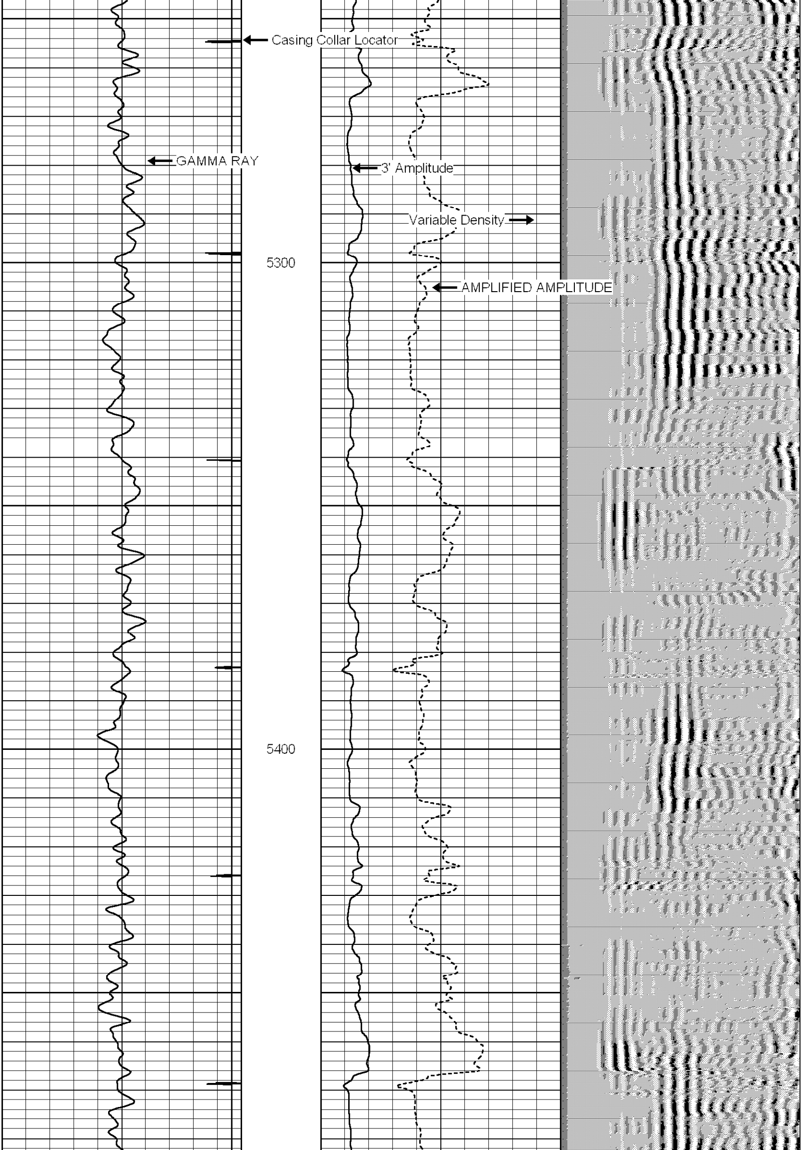


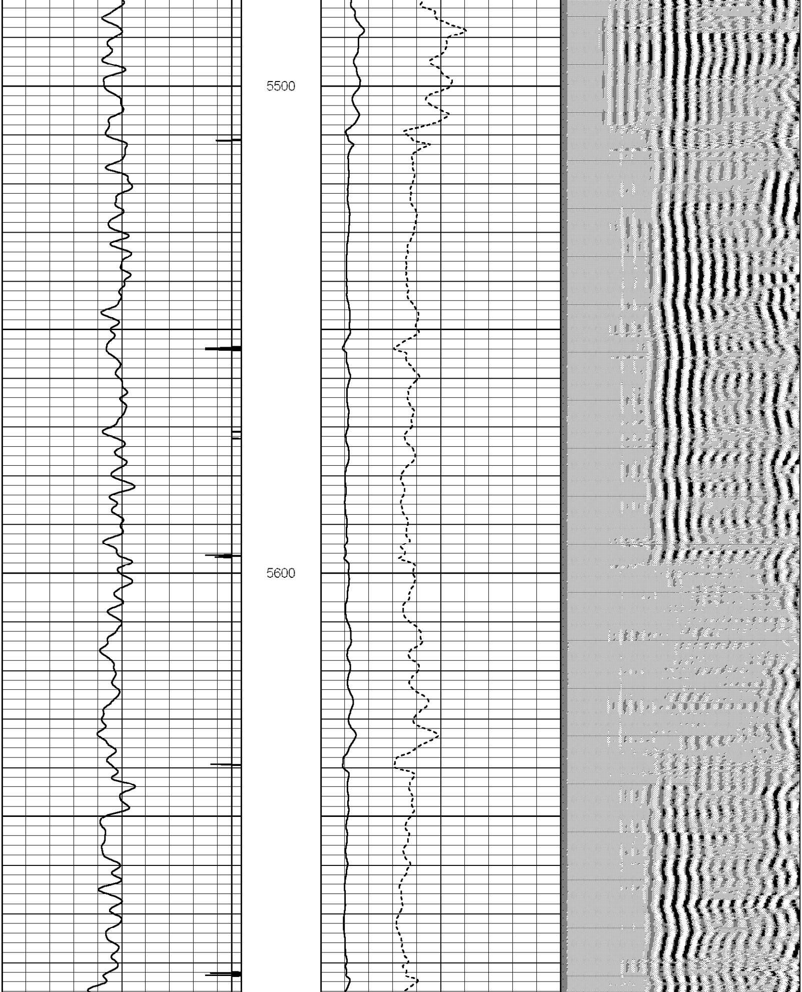


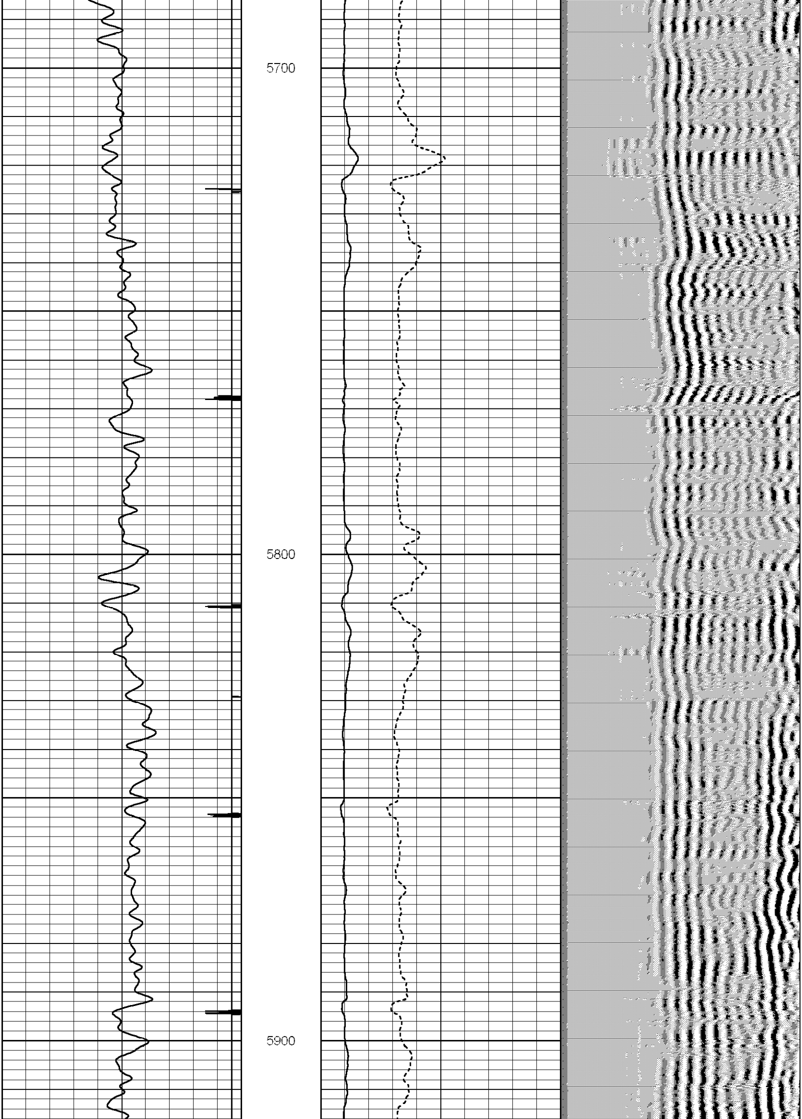


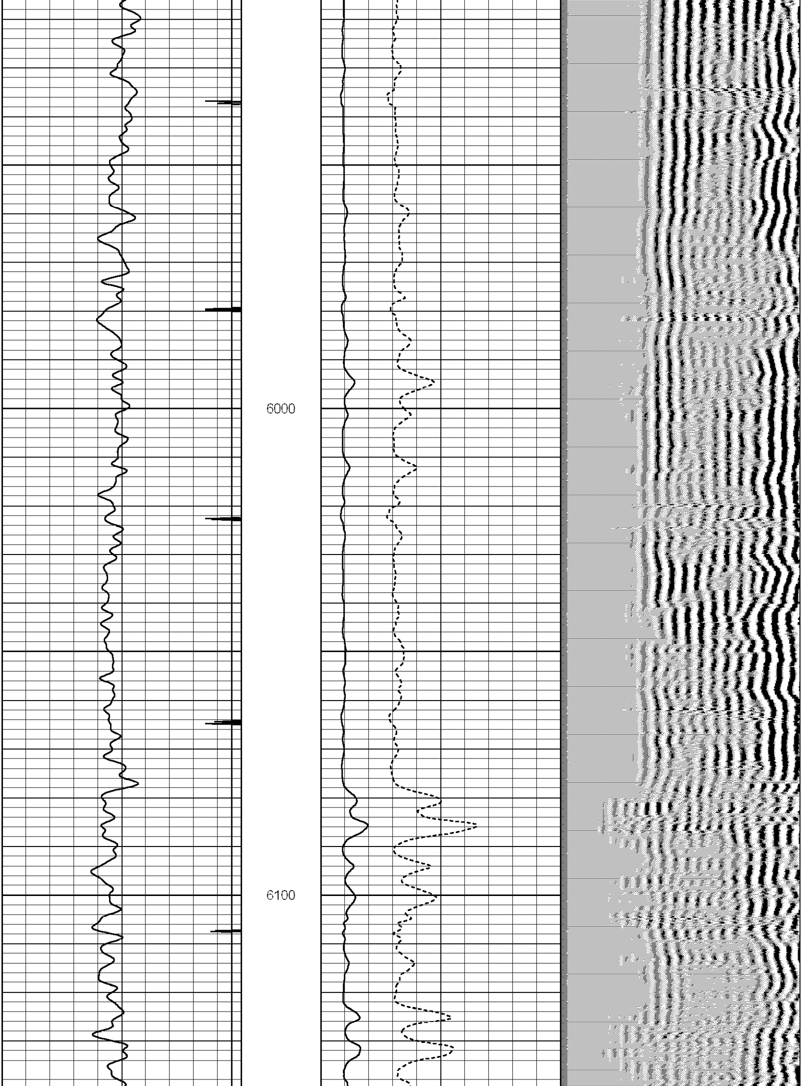


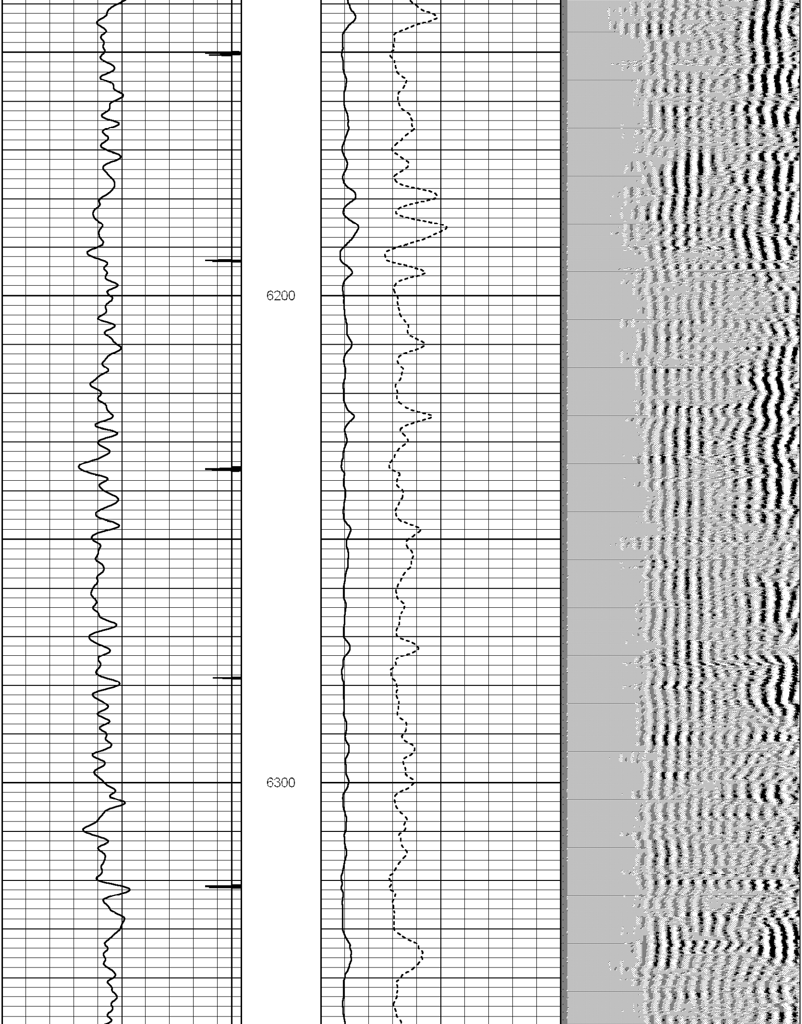


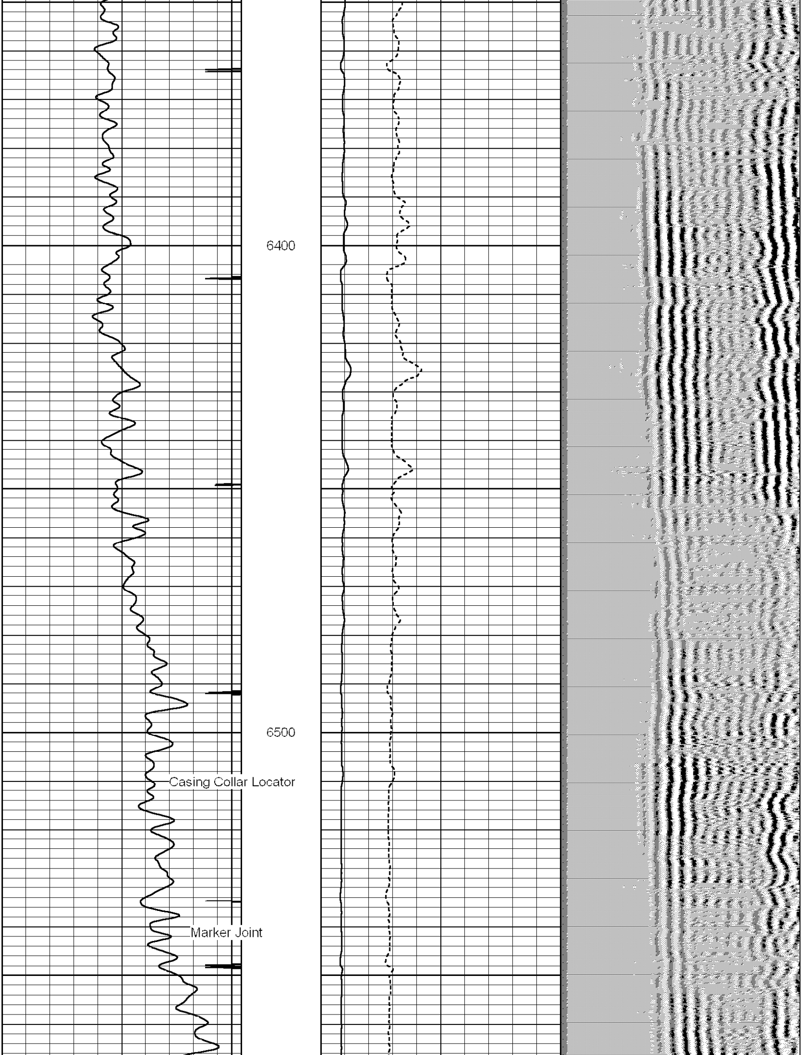


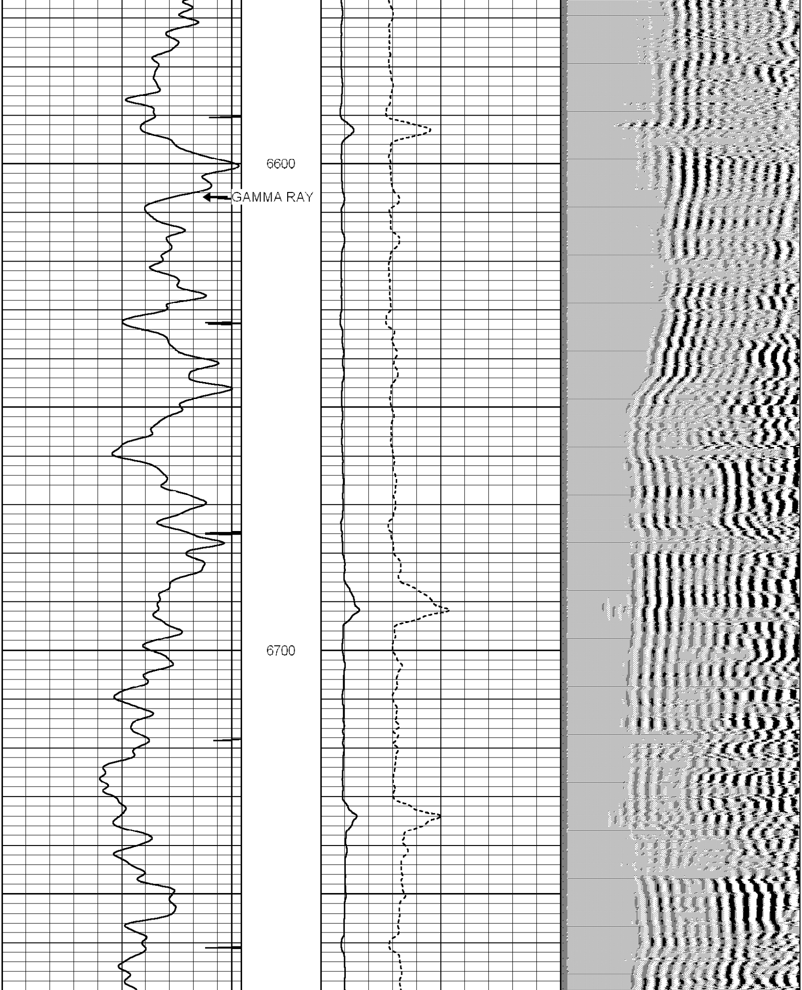


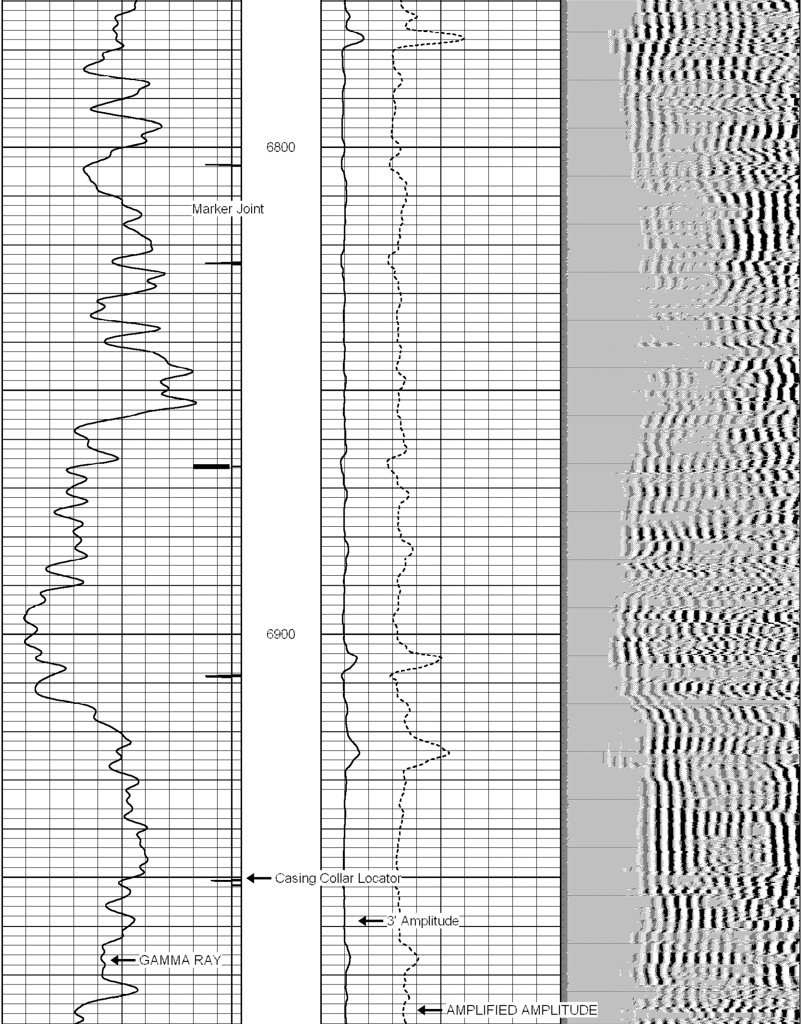


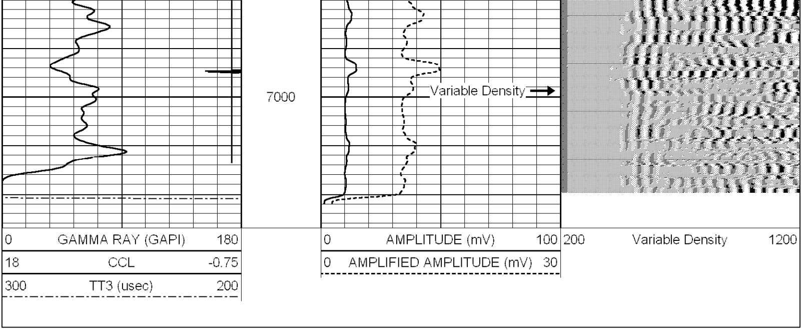












Calibration Report

Database File: dinnel c 27-28d.db
Dataset Pathname: pass1
Dataset Creation: Tue Nov 30 11:19:31 2010 by Log Std Casedhole 08121

Cement Bond Log Calibration Report

Serial Number: 001
Tool Model: 3_5
Performed: Tue Nov 30 11:02:32 2010

Depth:	838.158	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:	2.48381	2.01094	V
Gain:	32.1291	38.8854	
Offset:	1.39355	3	

Gamma Ray Calibration Report

Serial Number: t001
Tool Model: s_t001
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