GAMMA RAY / CCL
CEMENT BOND
VDL

Company Petroleum Development Corporation
Well Spaur 31 V-214
Field Wattenberg
County Weld
State Colorado

Company	Petroleum Development Corporation
Well	Spaur 31 V-214
Field	Wattenberg
County	Weld	State	Colorado

Location: API # : 05-123-35445
1234' FNL & 250' FEL
NE / NE
SEC 31 TWP 7N RGE 63W

Other Services

Permanent Datum	GL	Elevation	4757'
Log Measured From	KB		
Drilling Measured From	KB		

Elevation
K.B. 4771'
D.F. 4770'
G.L. 4757'

Date	September 13, 2012		
Run Number	1		
Depth Driller	11,168		
Depth Logger	6850'		
Bottom Logged Interval	6850'-4000'		
Top Log Interval	4000'-0'		
Open Hole Size			
Type Fluid	water		
Density / Viscosity			
Max. Recorded Temp.	n/a		
Estimated Cement Top			
Time Well Ready			
Time Logger on Bottom			
Equipment Number	T2 TEK1/TITAN1,TEKCCL1		
Location	WCRs63+74,N7/10,Winto		
Recorded By	Jake Meisner		
Witnessed By	Kelly Lewis		

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"			
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.

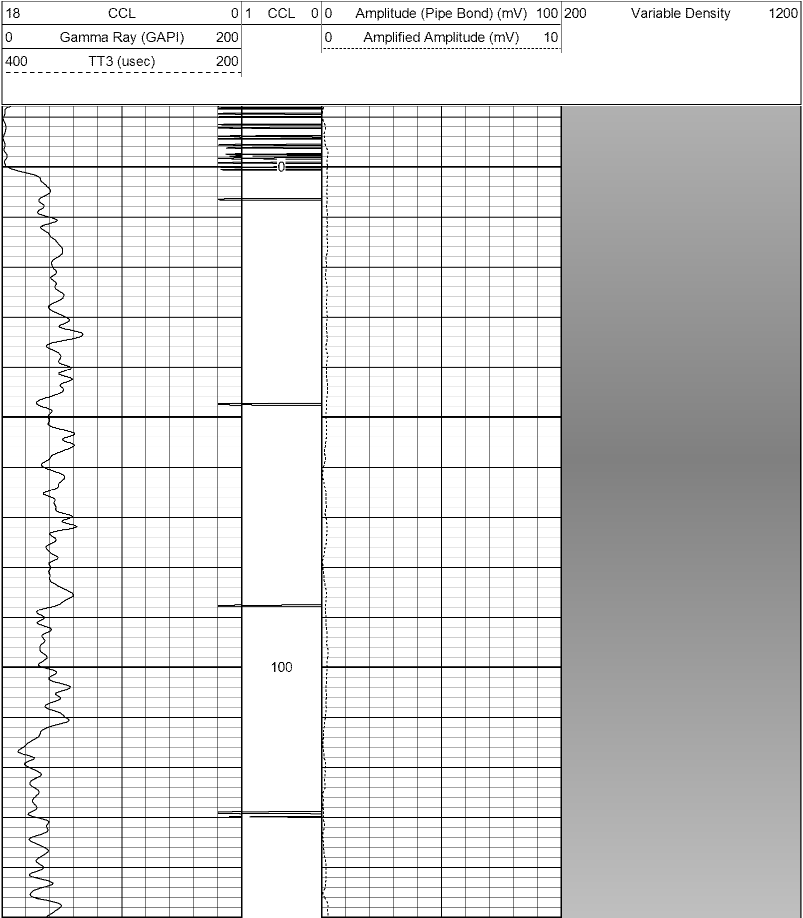
Comments

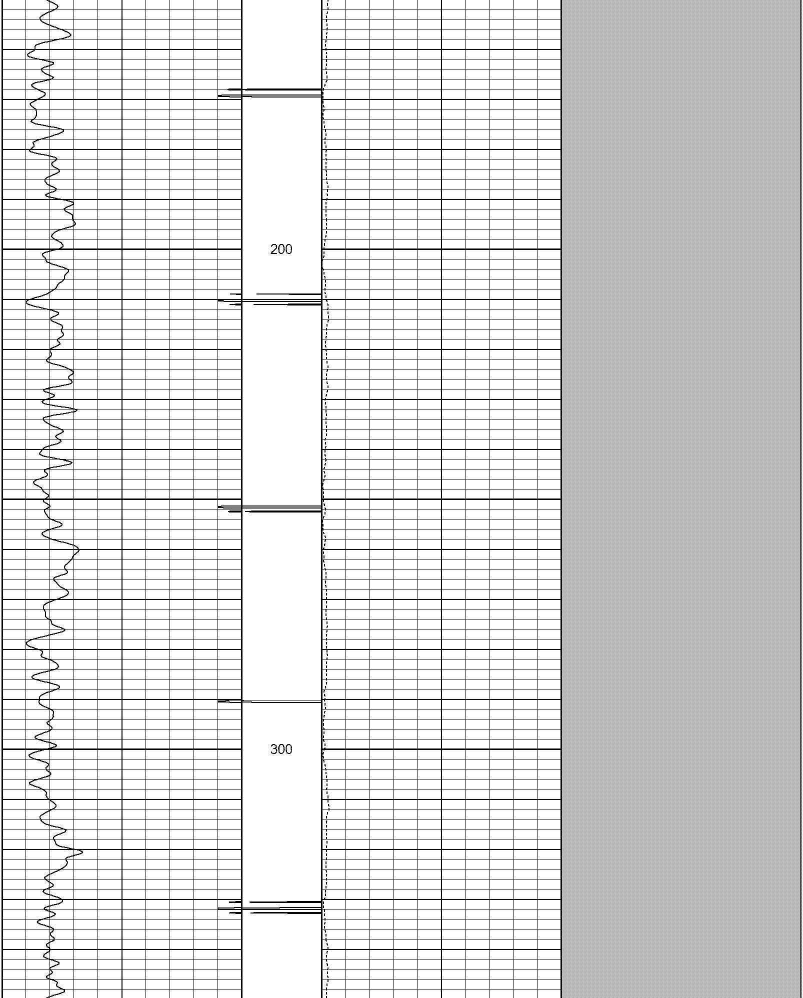
THANK-YOU FOR USING SUPERIOR WELL SERVICES
STERLING: 970.526.1084 FAX: 970.526.1085
FORT LUPTON: 970.785.0158 FAX: 970.785.0159

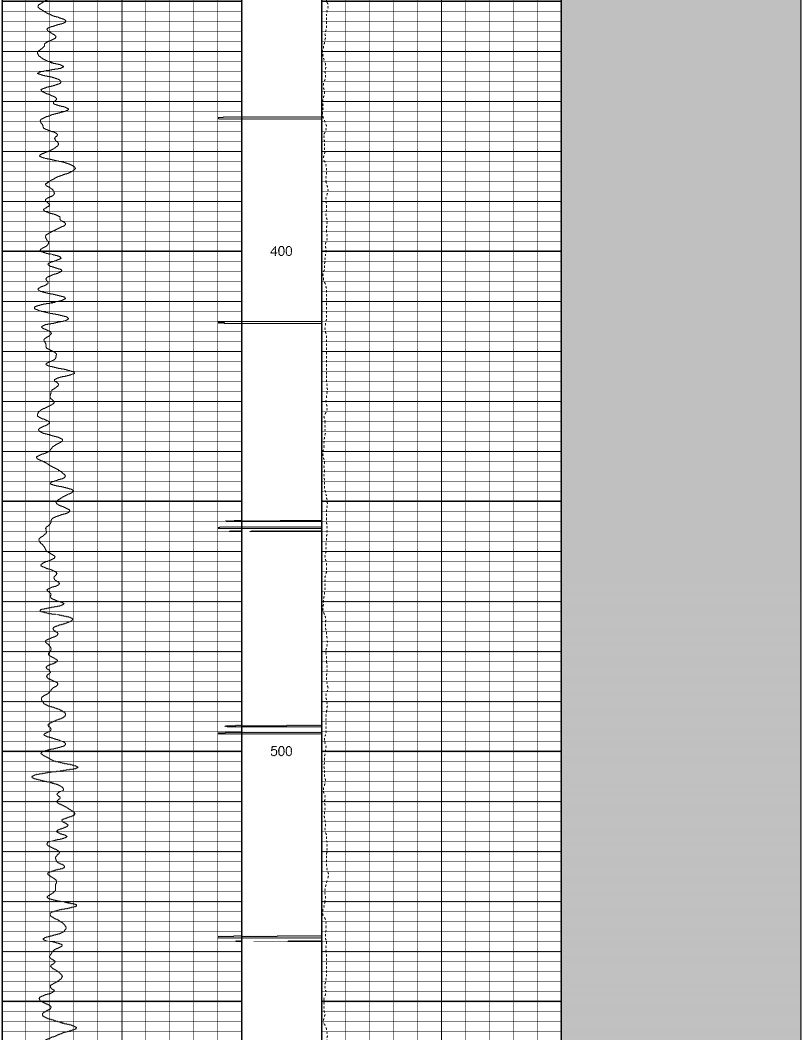
<NORTH> X O O O <SOUTH>

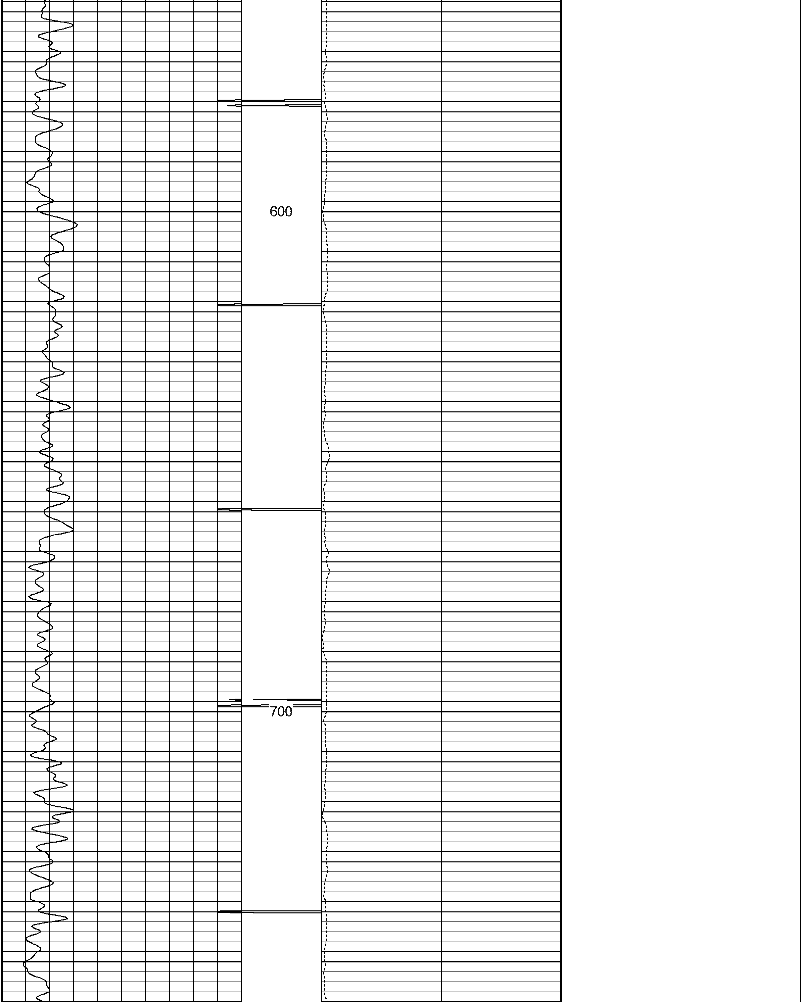
X = Spaur 31 V-214

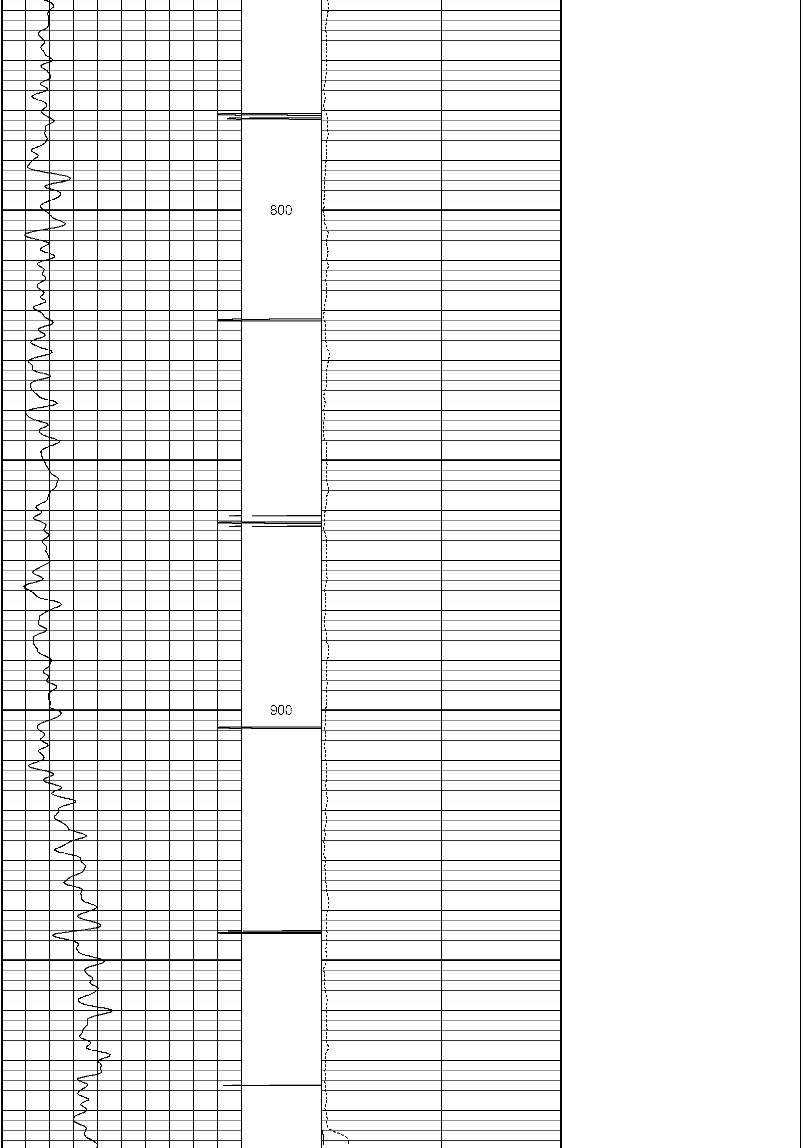
Database File: pdcs31v214.db
Dataset Pathname: pass3
Presentation Format: bond
Dataset Creation: Thu Sep 13 13:57:56 2012 by Log Std Casedhole 07051
Charted by: Depth in Feet scaled 1:240











18 CCL 0	1 CCL 0	0 Amplitude (Pipe Bond) (mV) 100	200 Variable Density 1200
0 Gamma Ray (GAPI) 200		0 Amplified Amplitude (mV) 10	
400 TT3 (usec) 200			

Database File: pdcs31v214.db
Dataset Pathname: pass2
Presentation Format: bond
Dataset Creation: Thu Sep 13 13:38:45 2012 by Log Std Casedhole 07051
Charted by: Depth in Feet scaled 1:240

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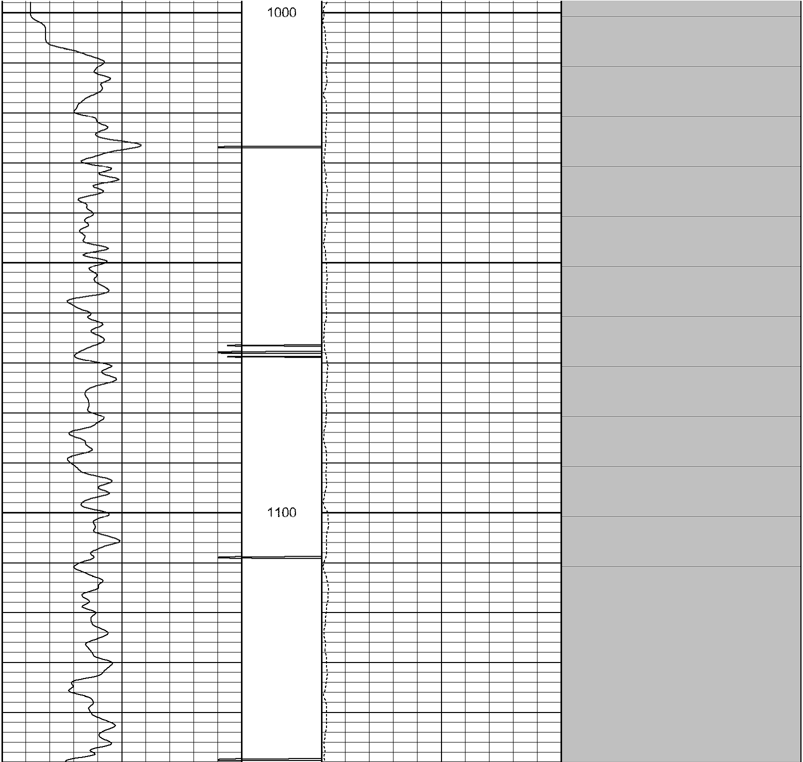
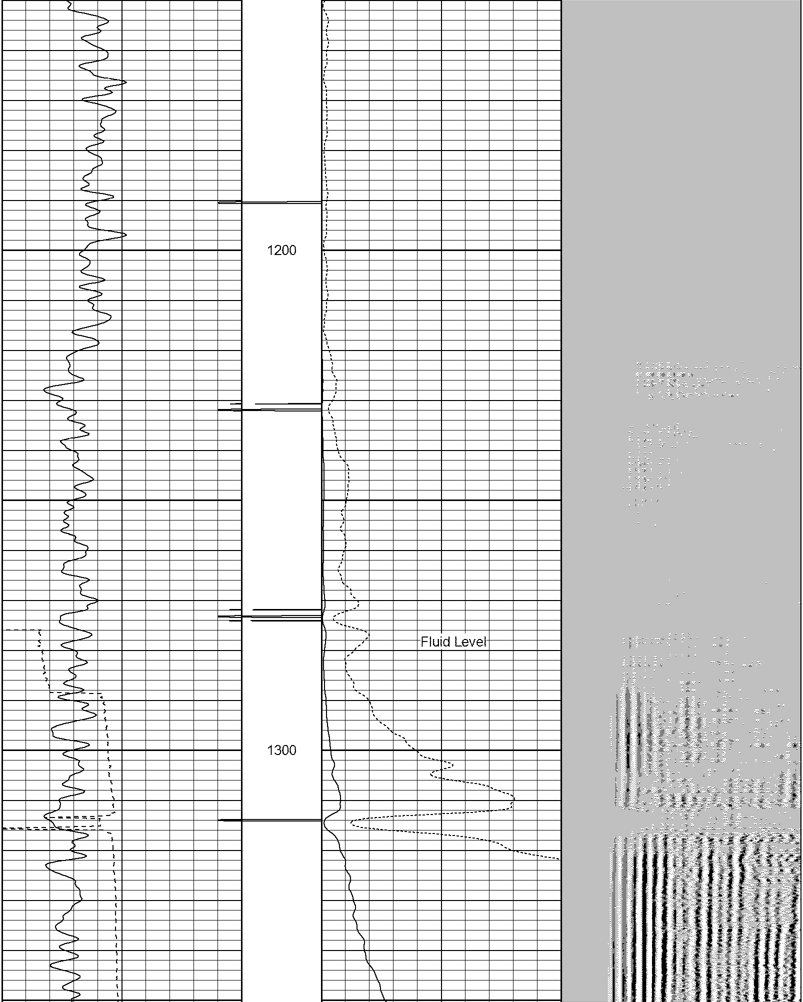
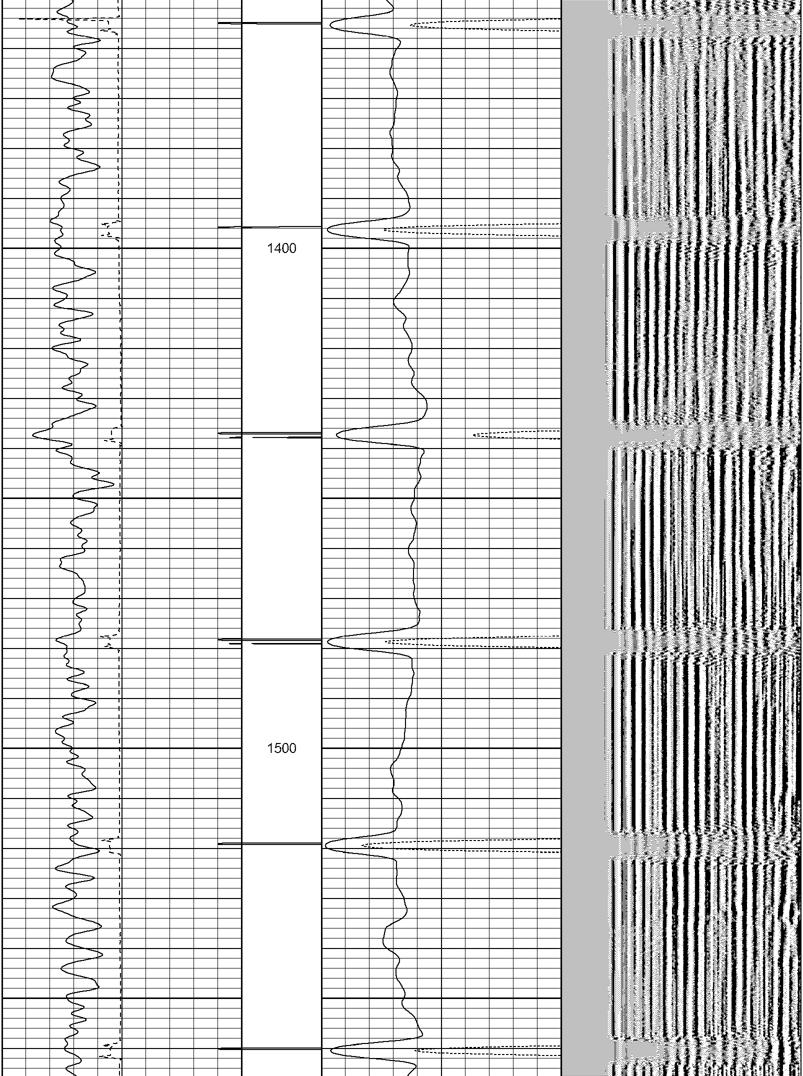
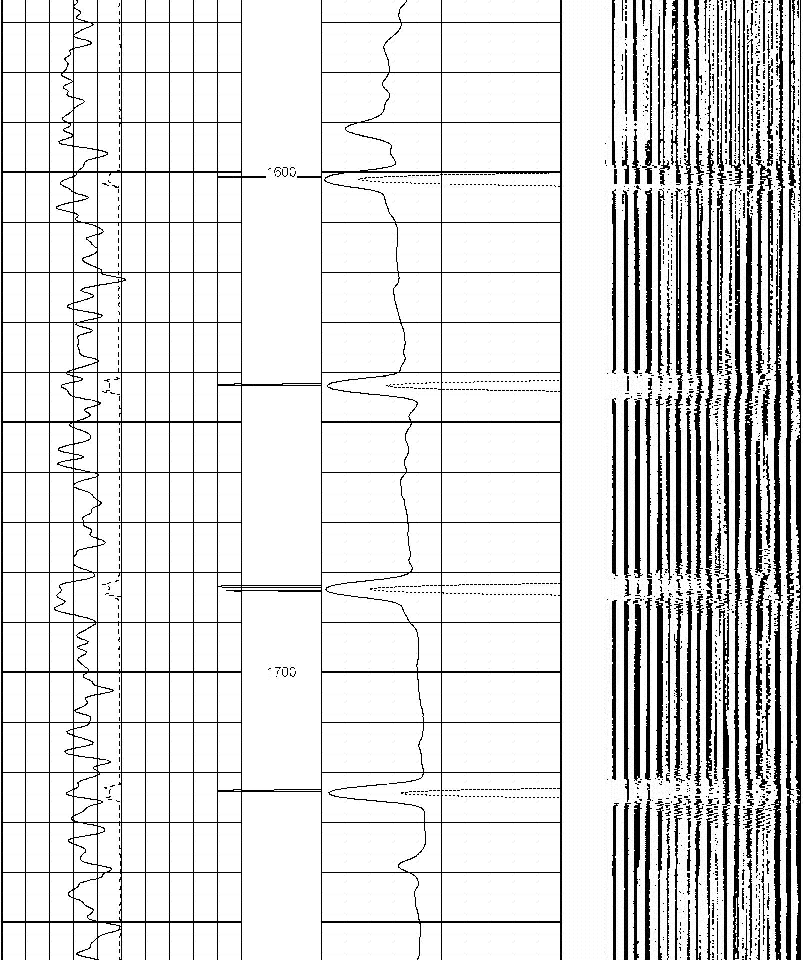
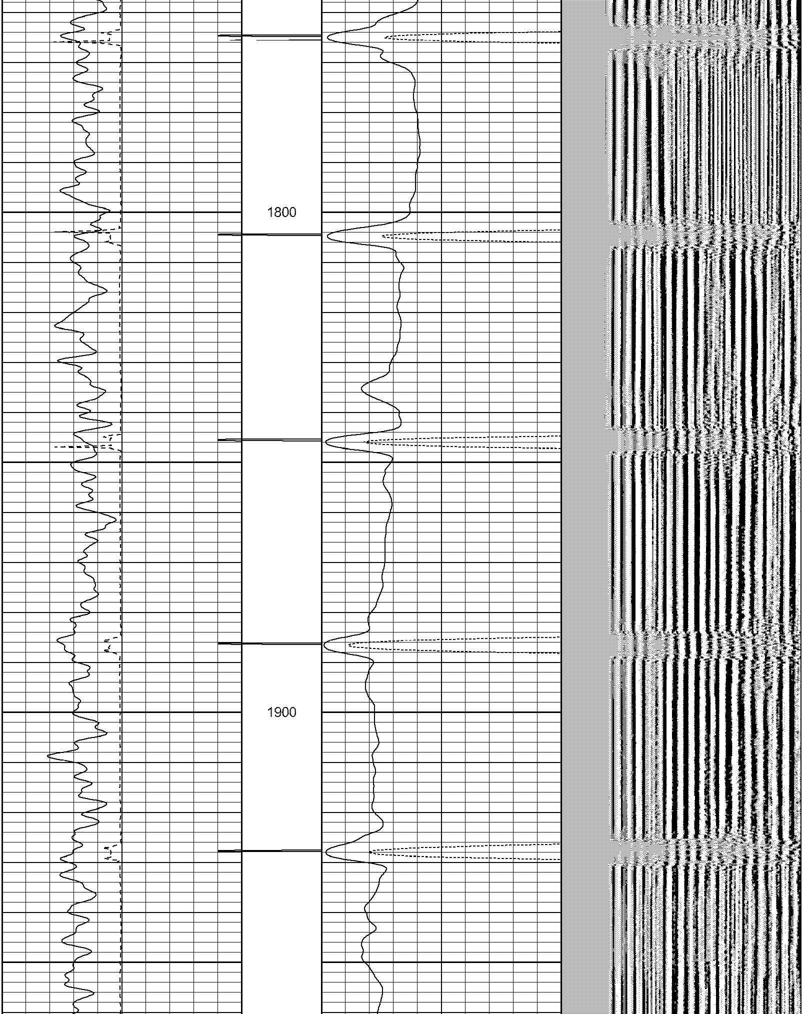
0 Gamma Ray (GAPI) 200		0 Amplified Amplitude (mV) 10	
400 TT3 (usec) 200			

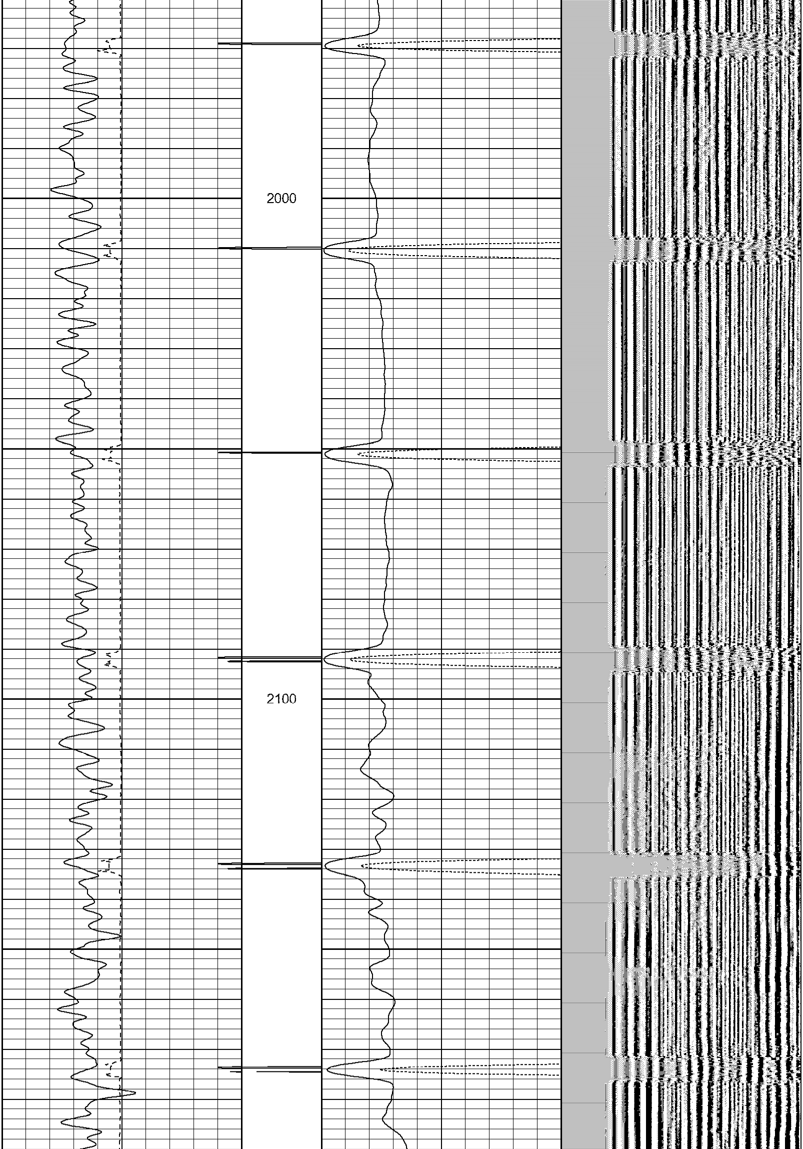


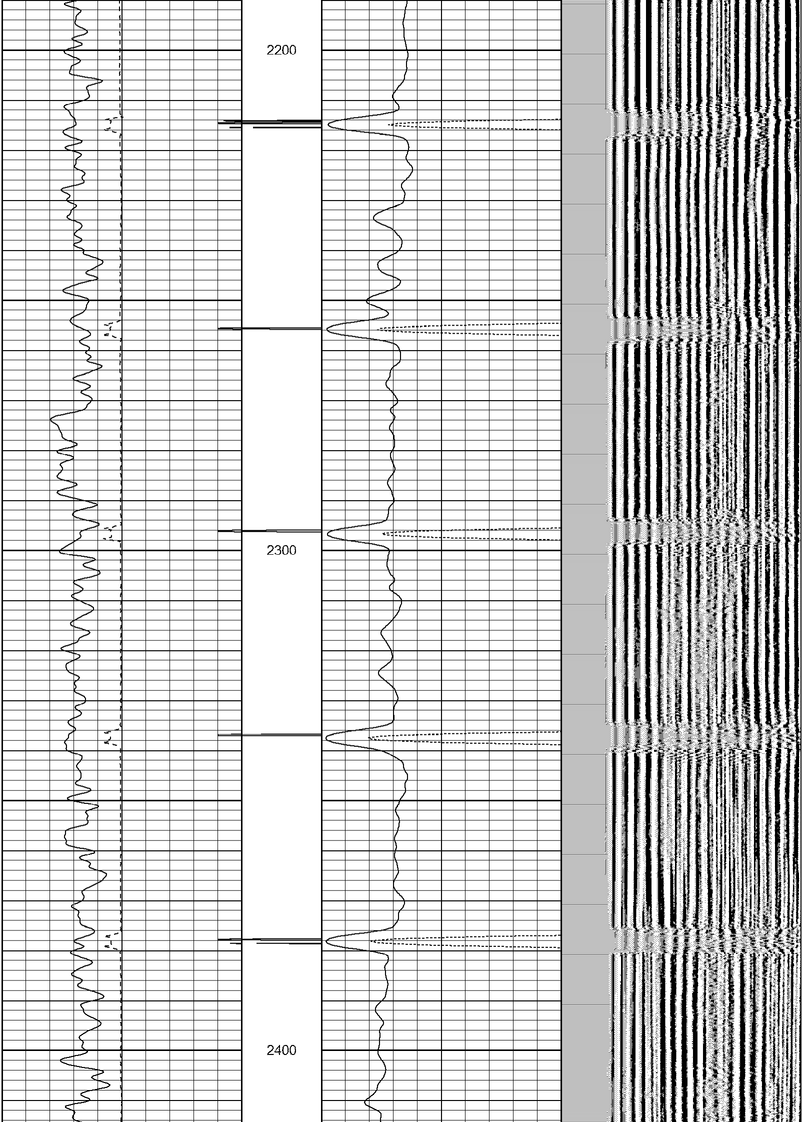


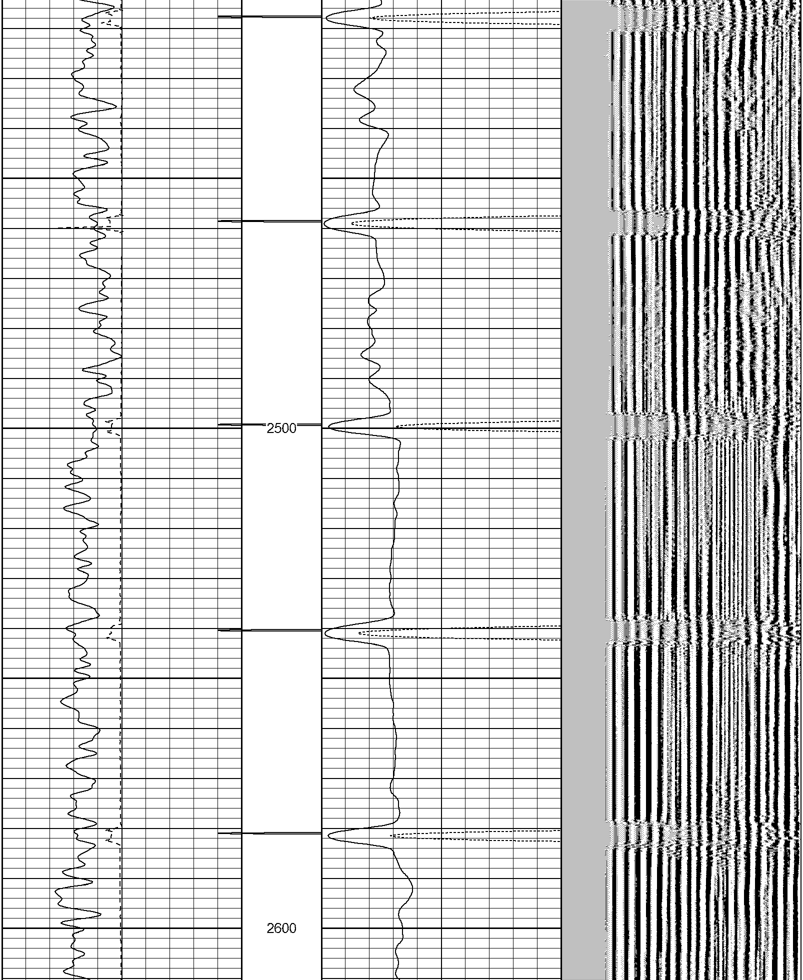


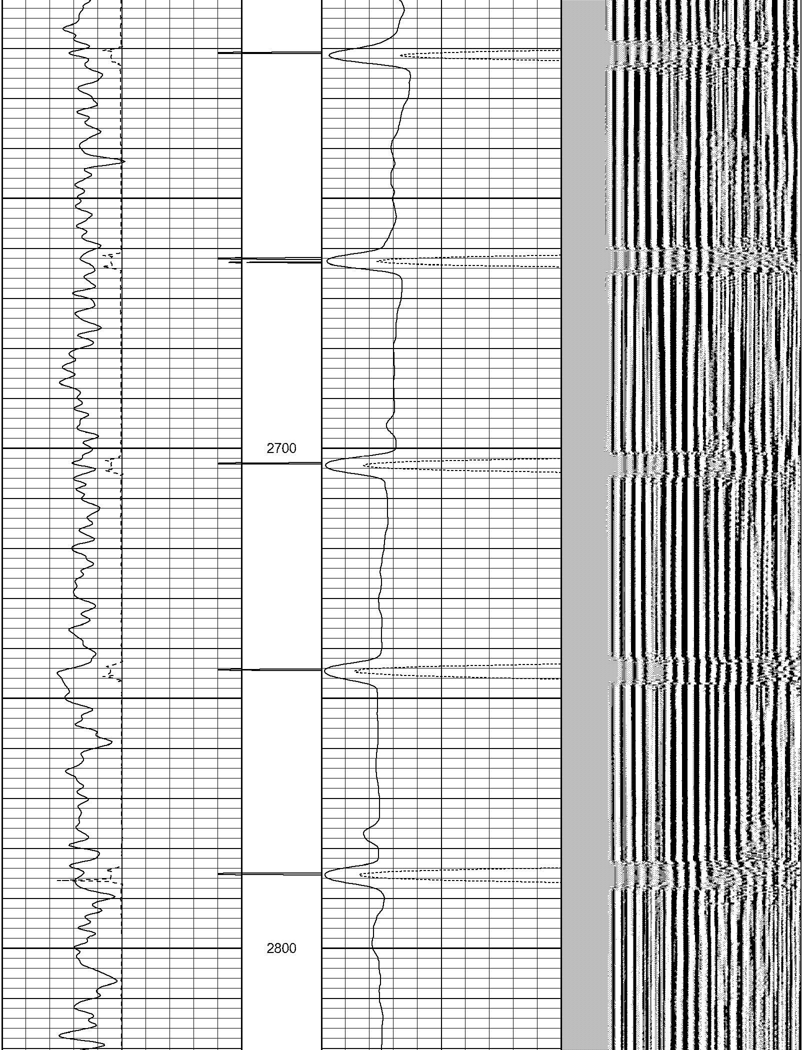


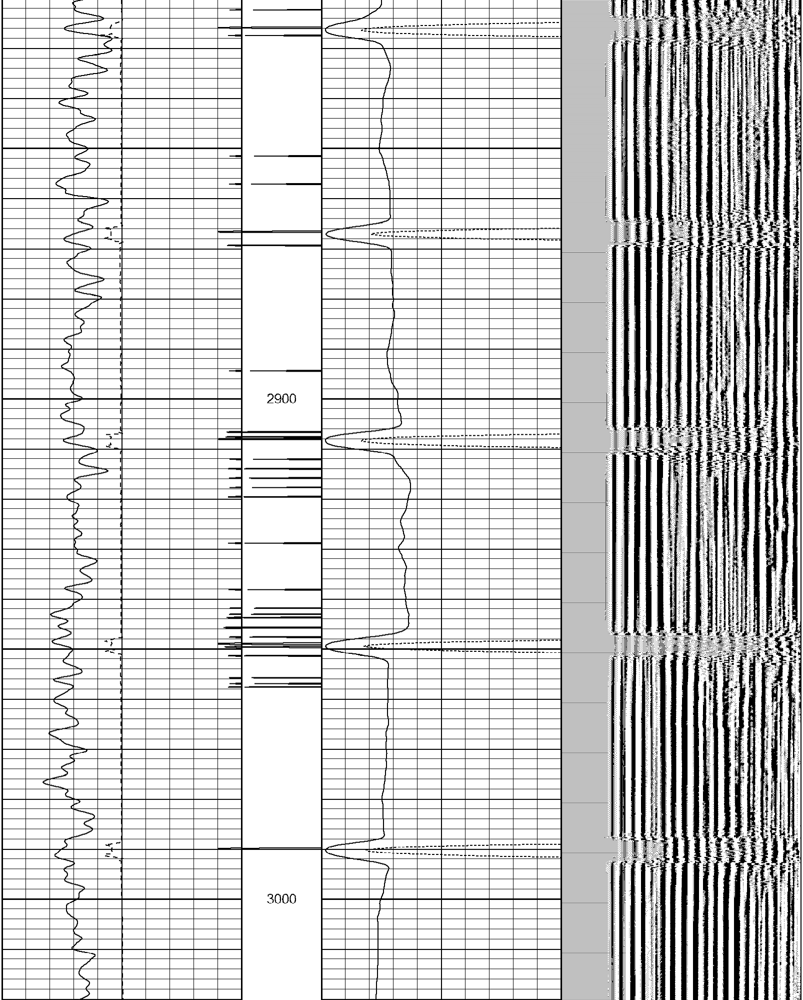


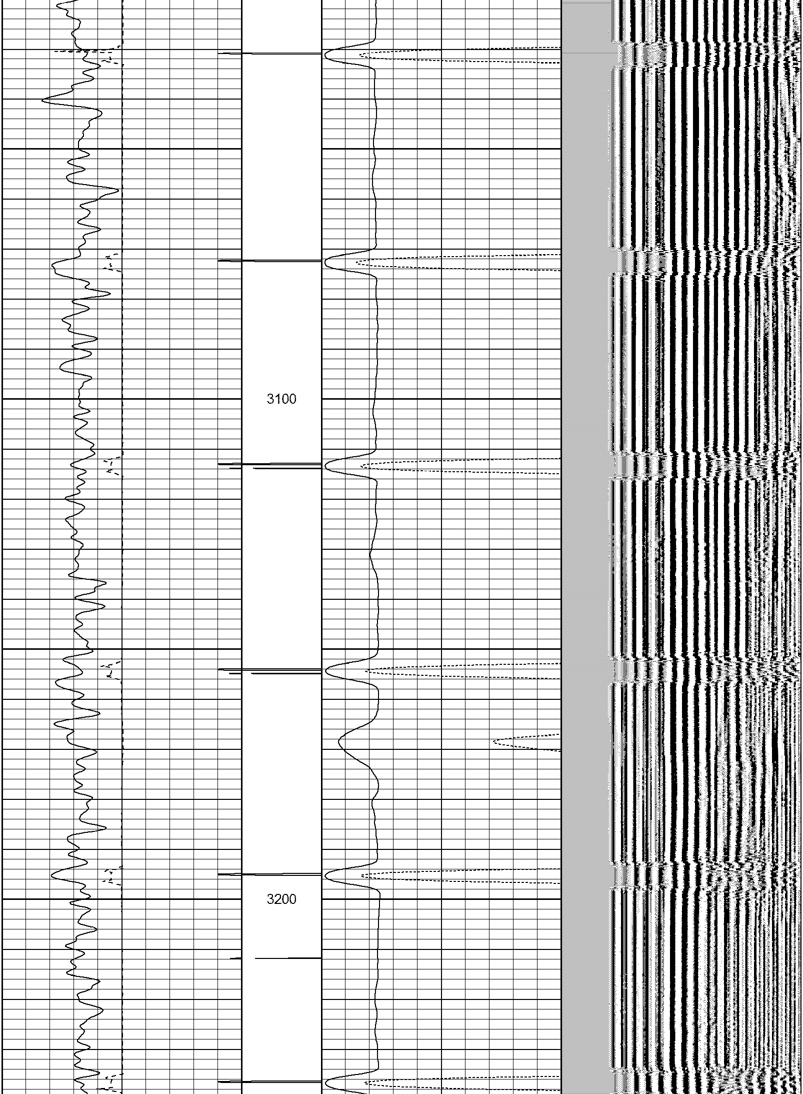


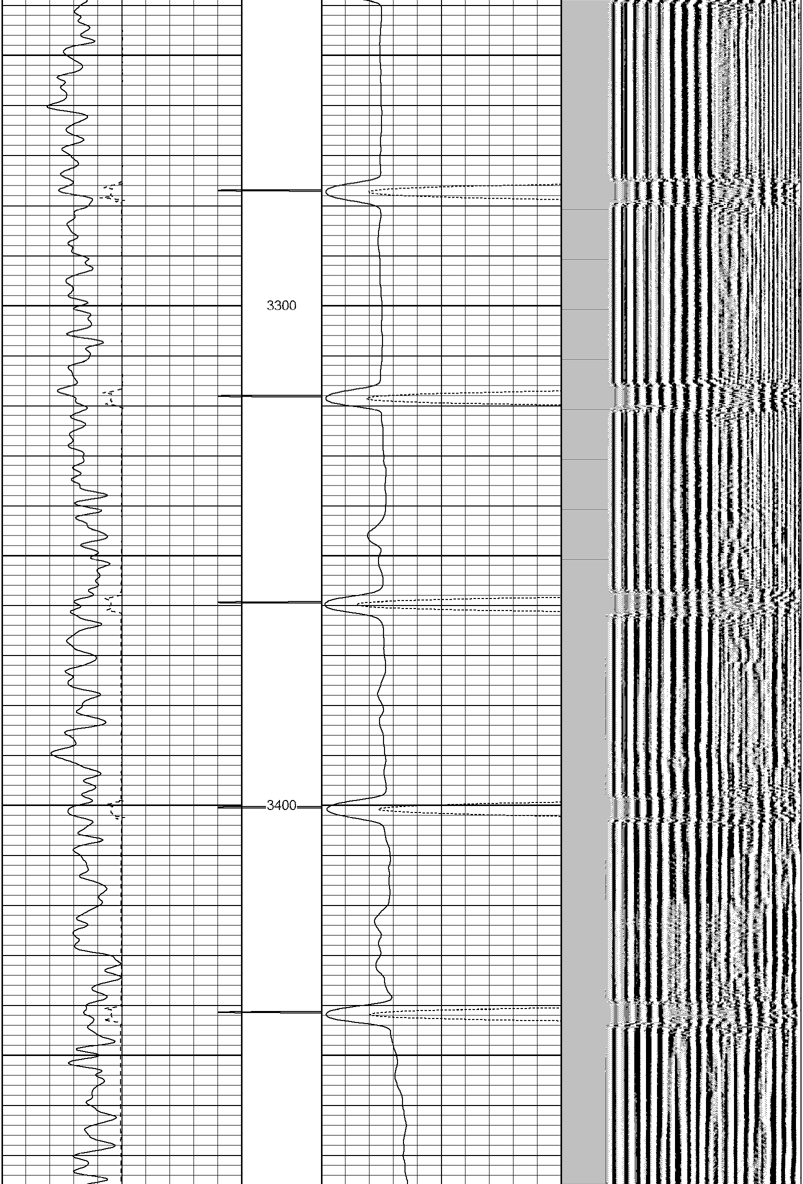


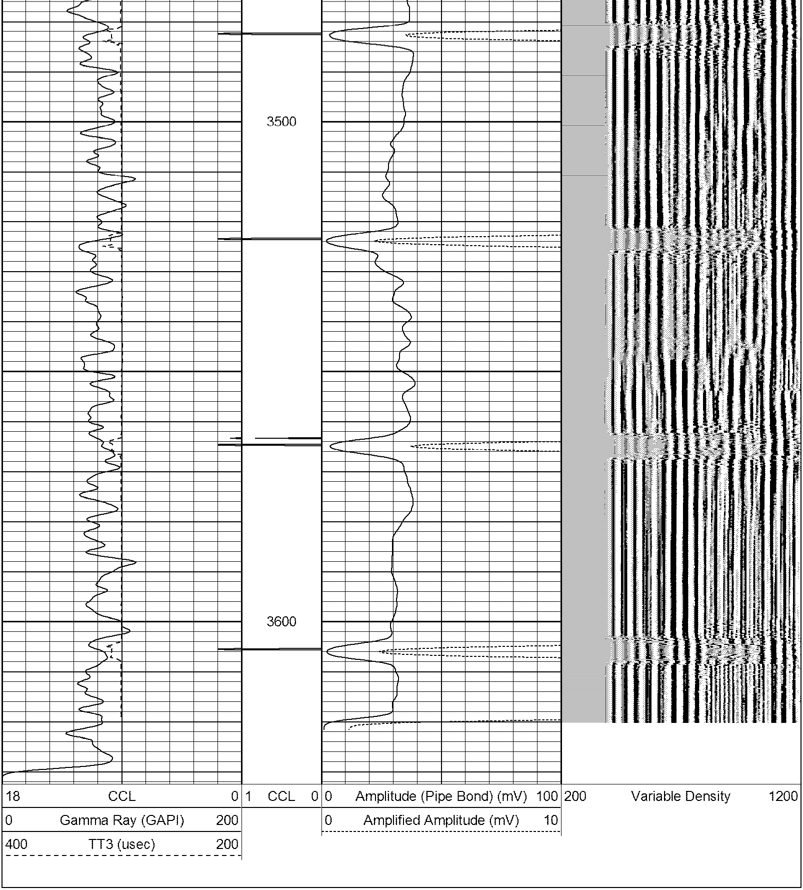








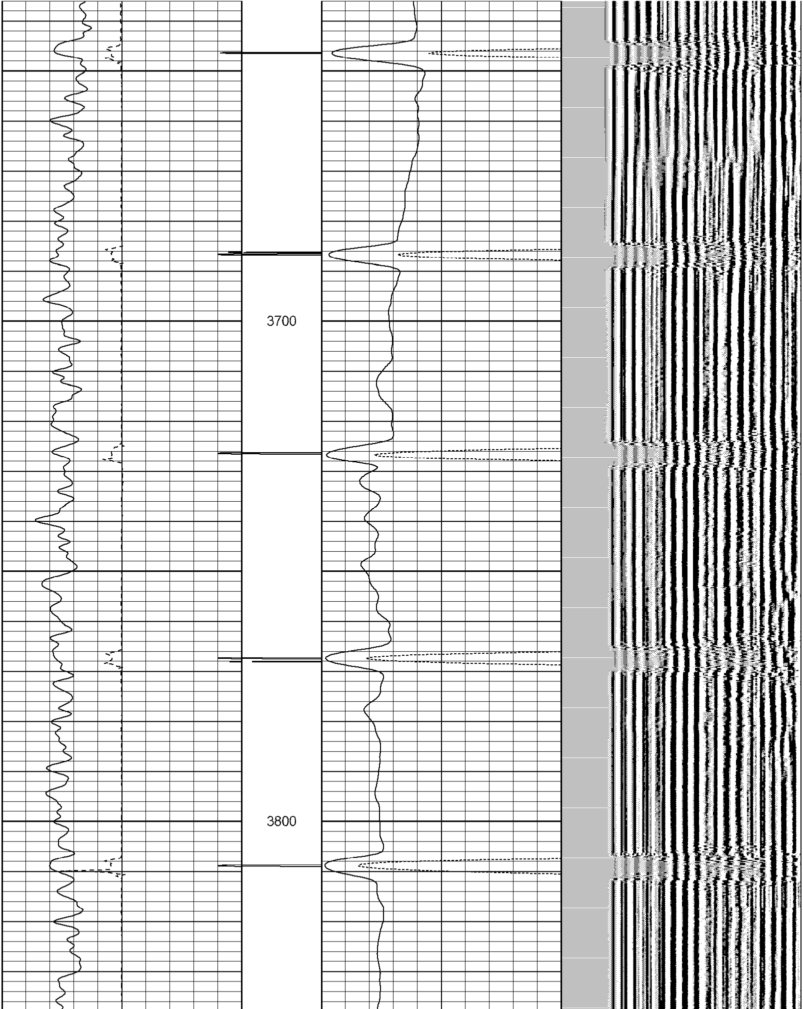


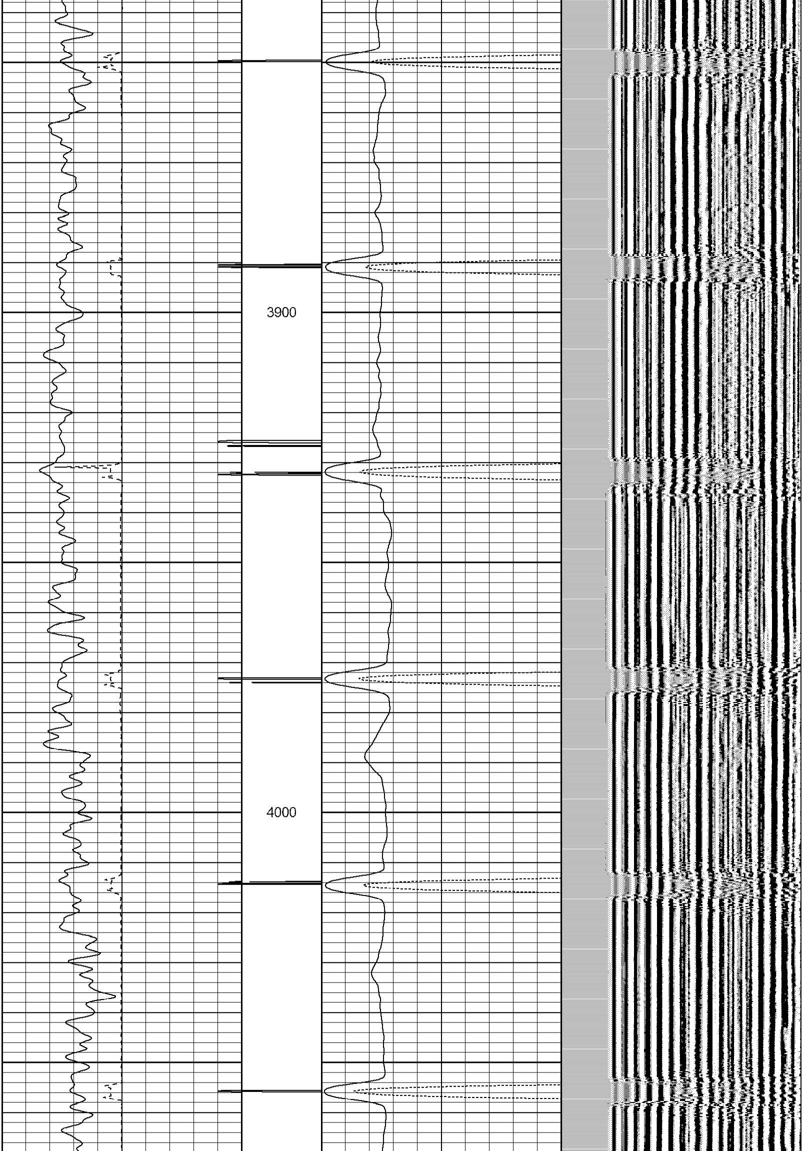


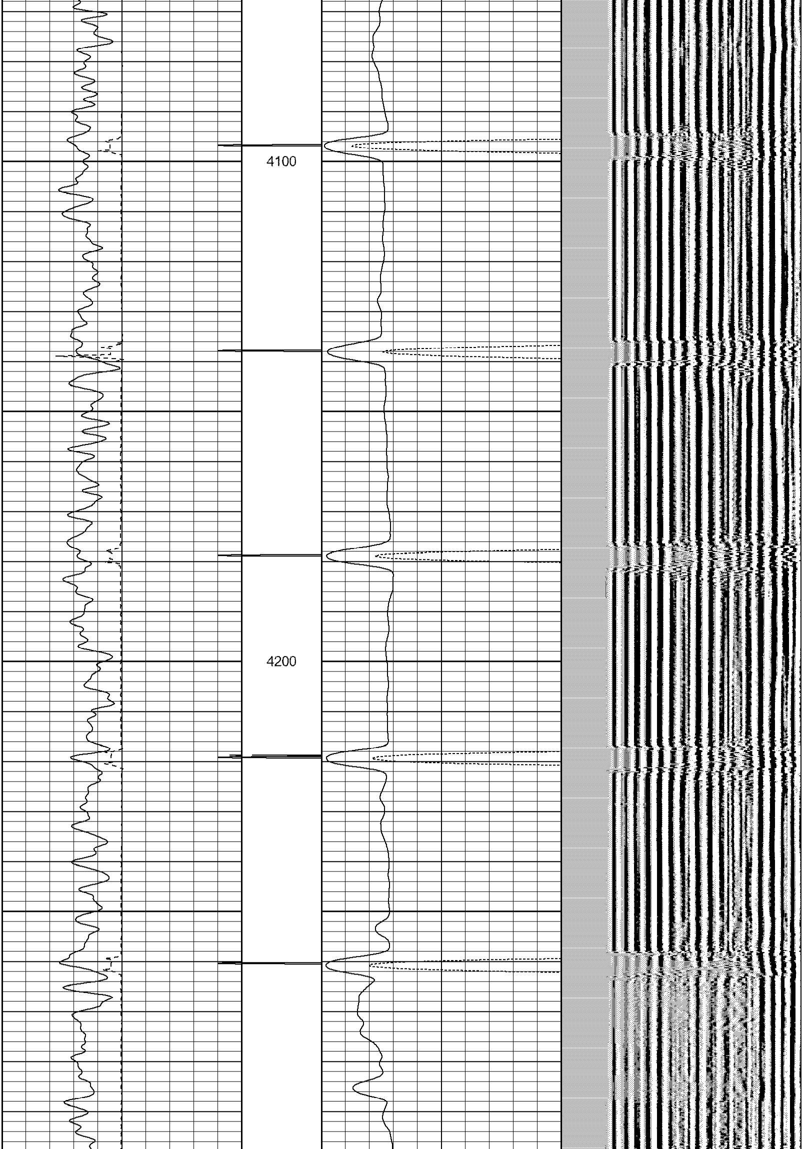
Database File: pdcs31v214.db
Dataset Pathname: pass1
Presentation Format: bond
Dataset Creation: Thu Sep 13 13:09:25 2012 by Log Std Casedhole 07051
Charted by: Depth in Feet scaled 1:240

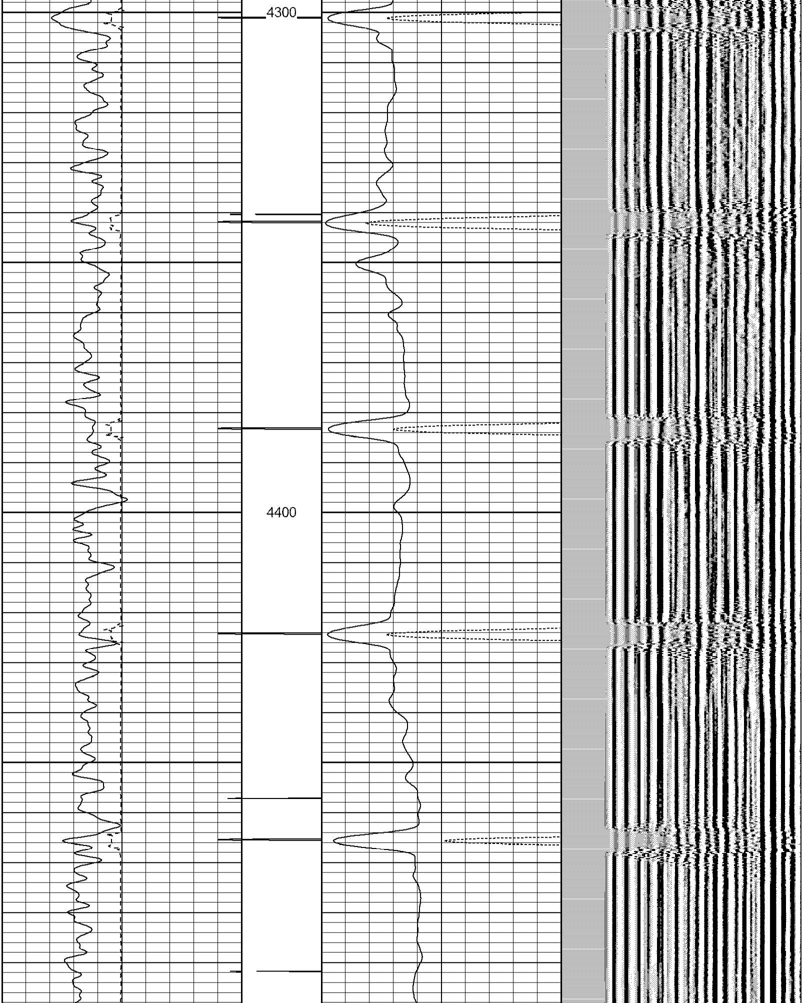
18 CCL 0 1 CCL 0 0 Amplitude (Pipe Bond) (mV) 100 200 Variable Density 1200

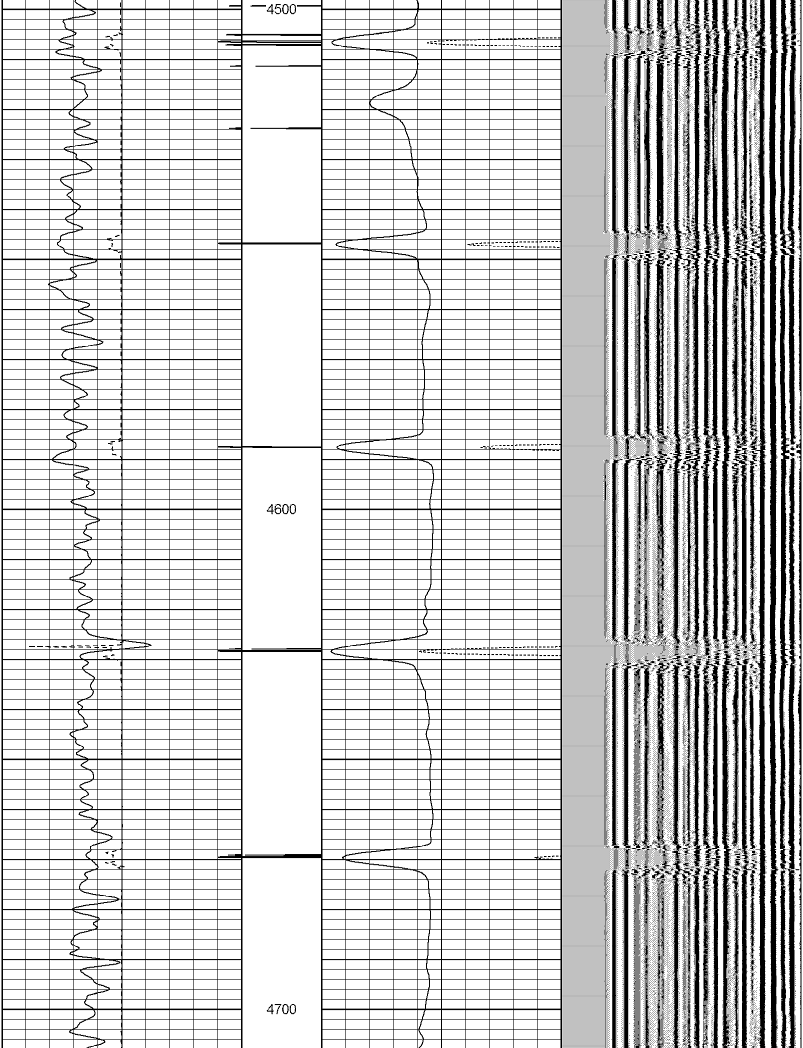
18 CCL 0	1 CCL 0	0 Amplitude (Pipe Bond) (mV) 100	200 Variable Density 1200
0 Gamma Ray (GAPI) 200		0 Amplified Amplitude (mV) 10	
400 TT3 (usec) 200			

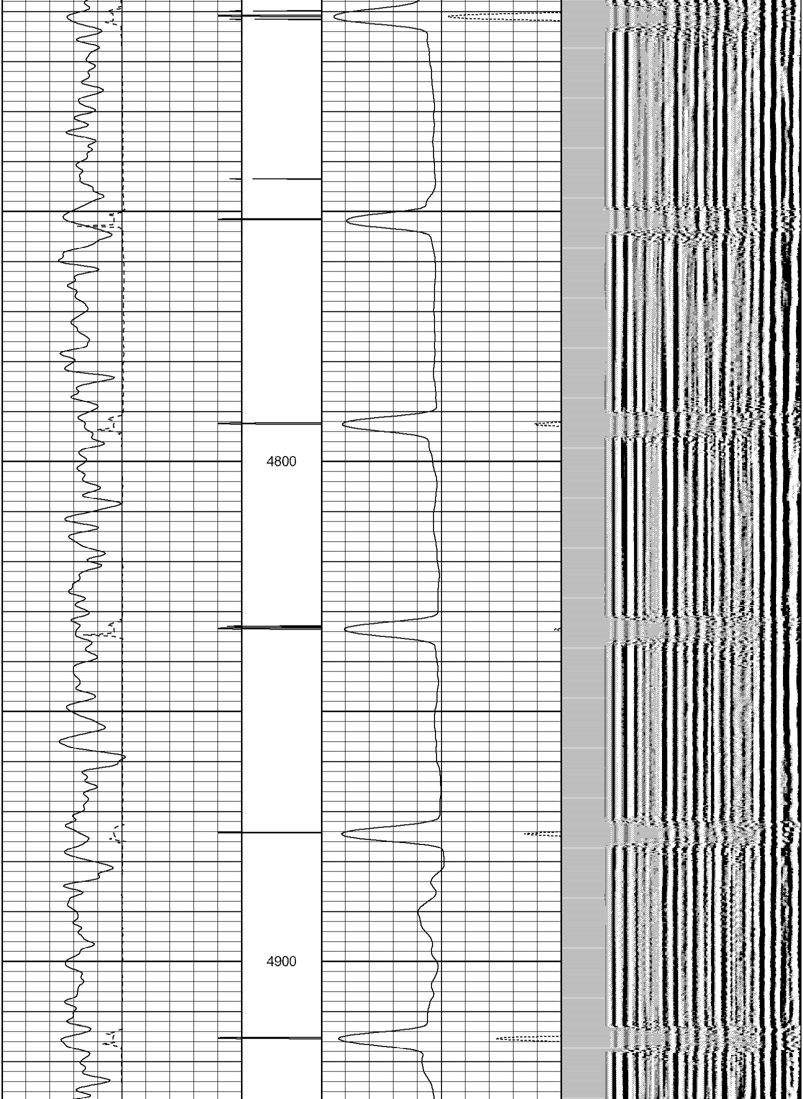


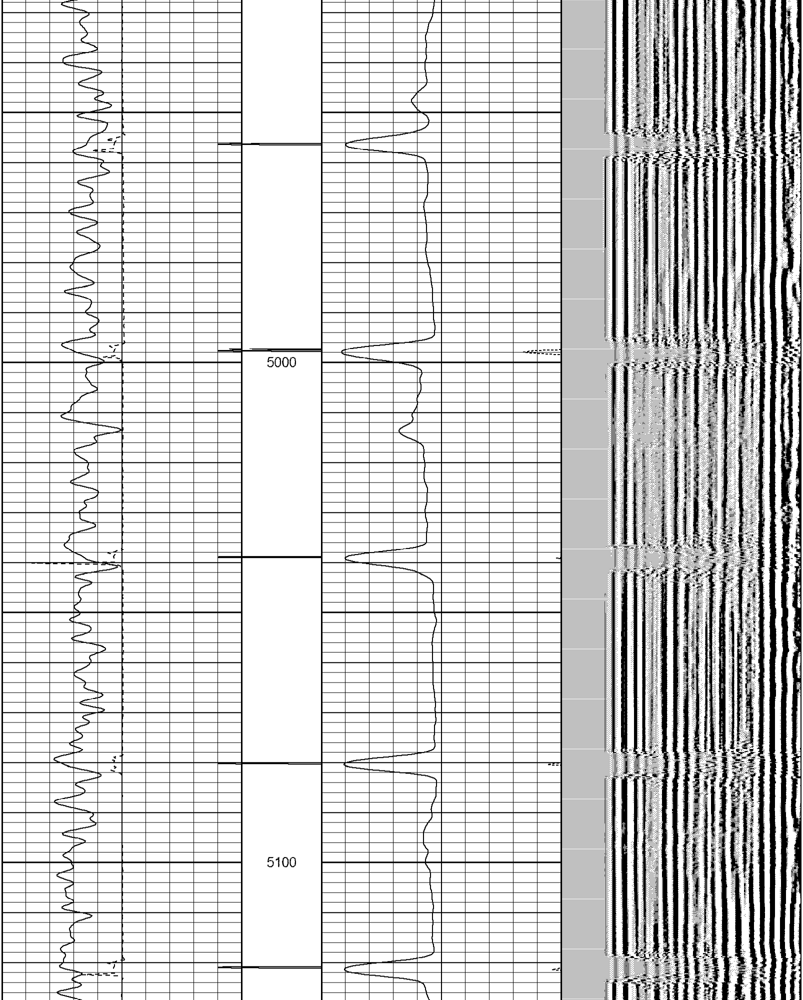


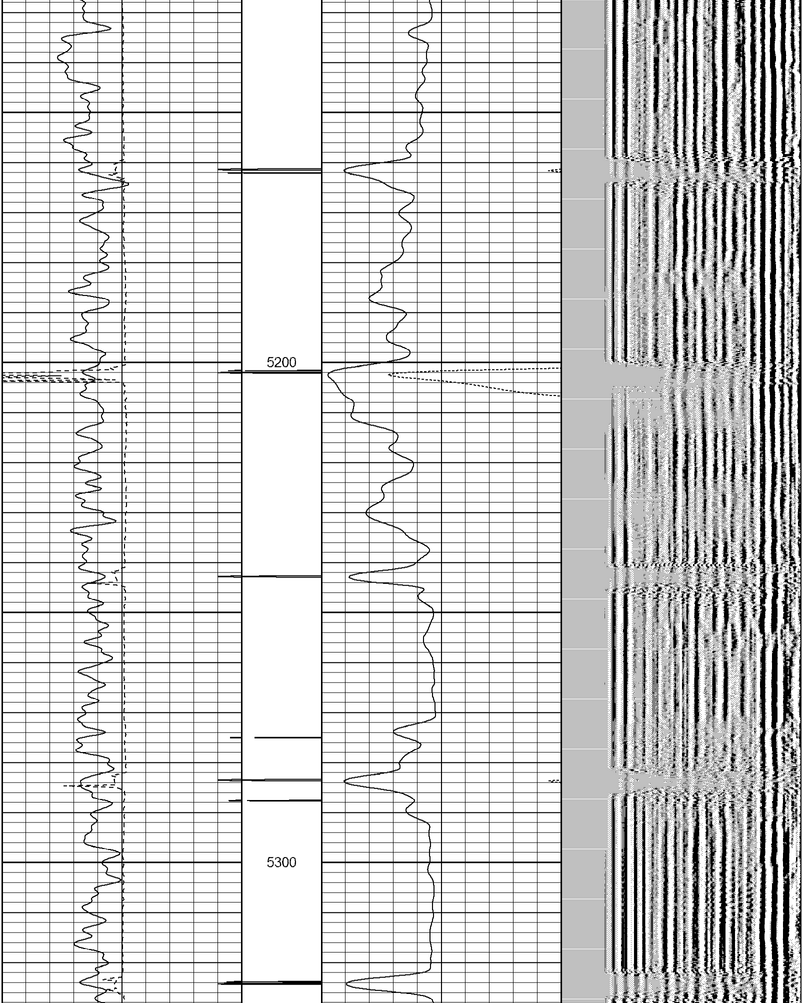


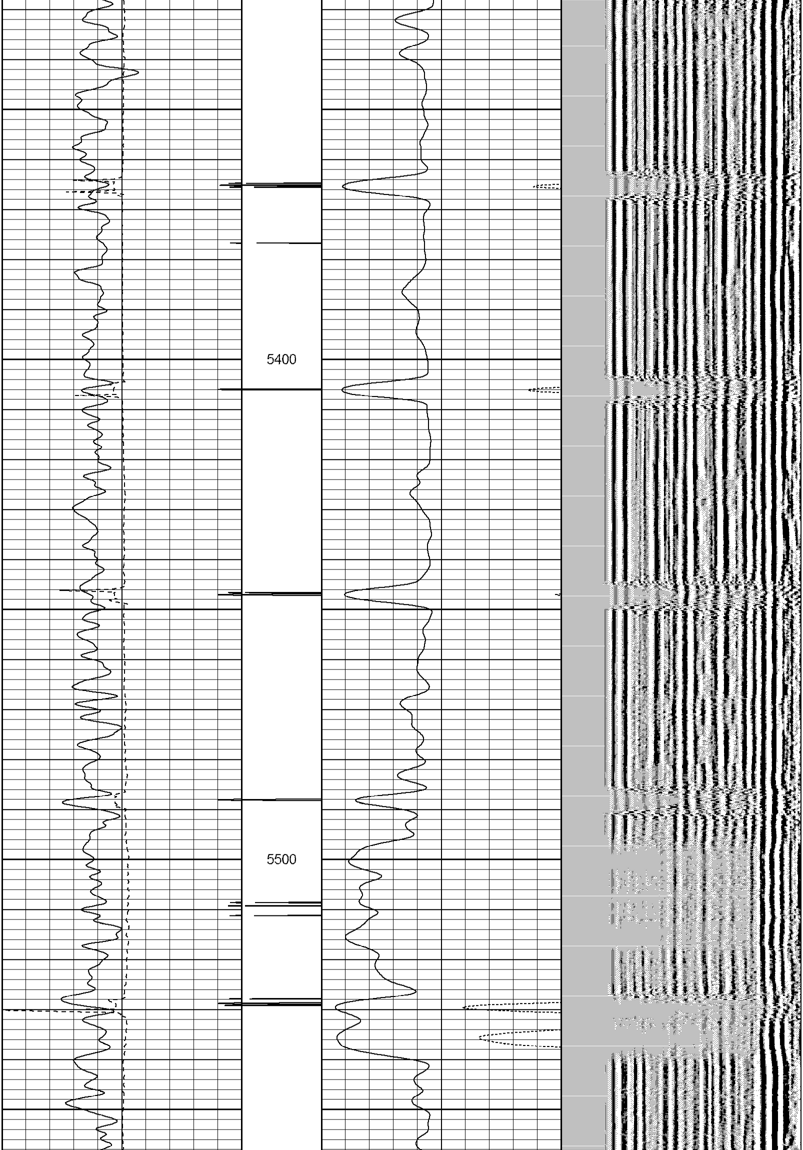


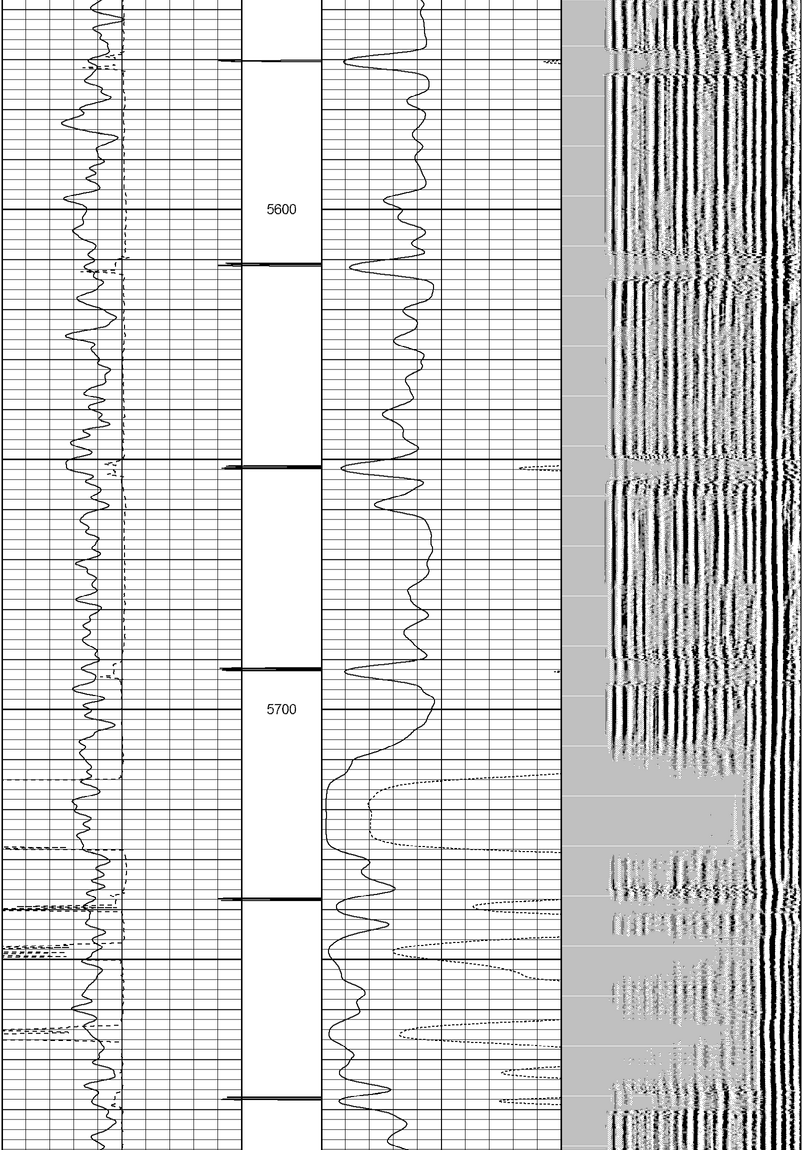


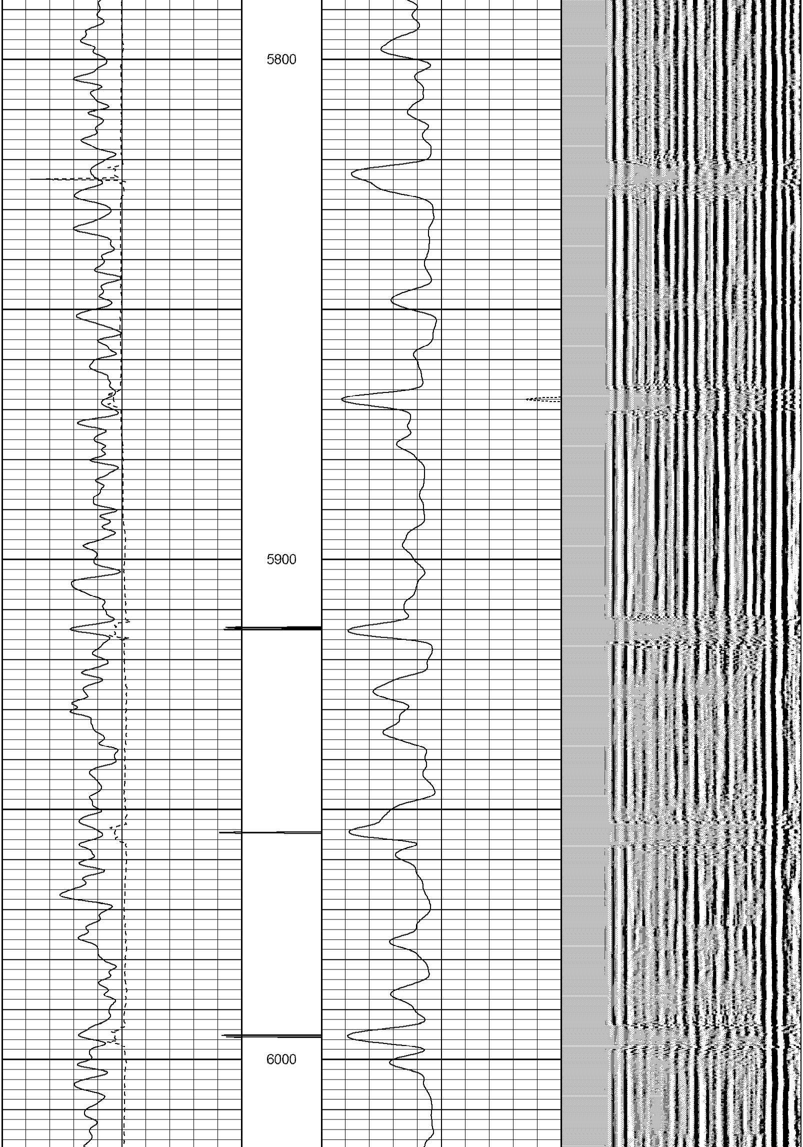


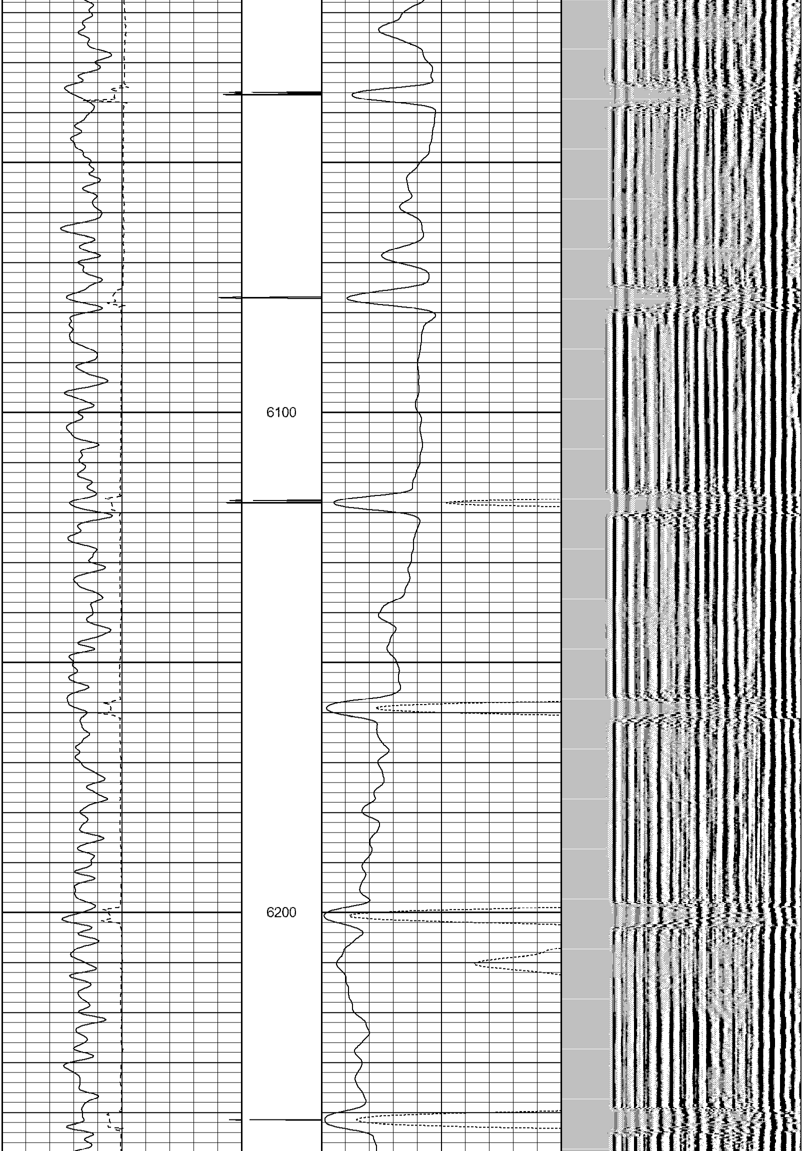


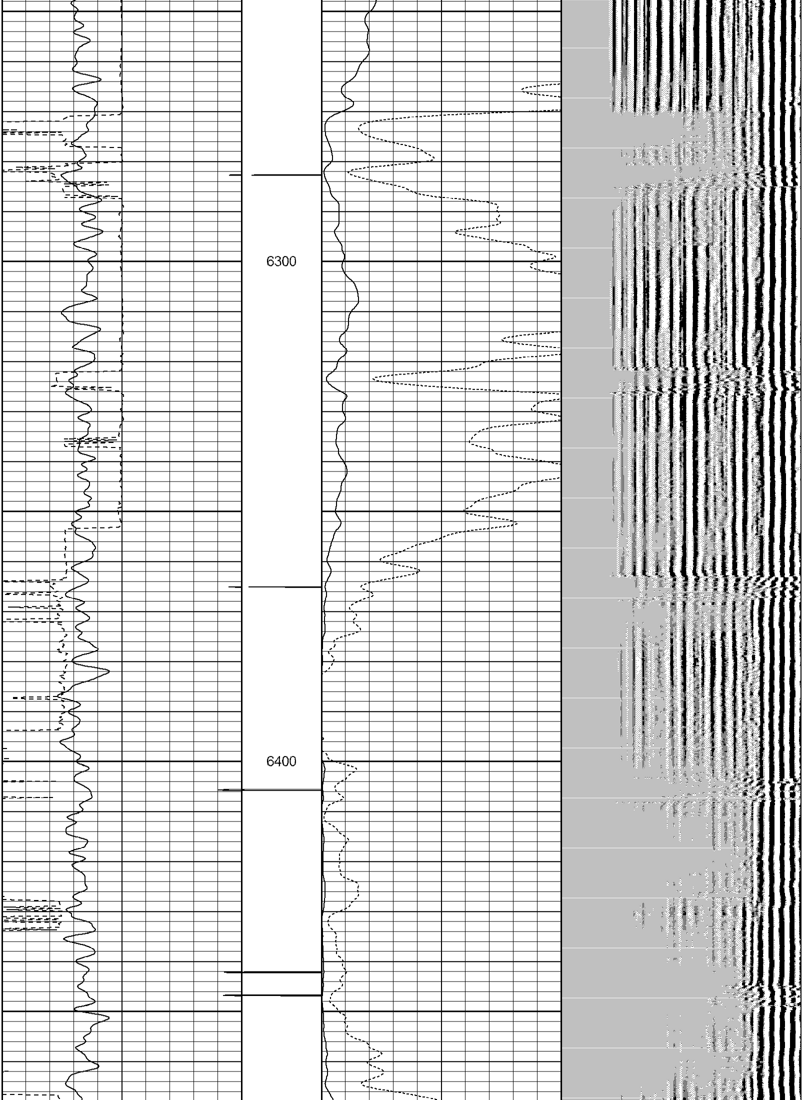


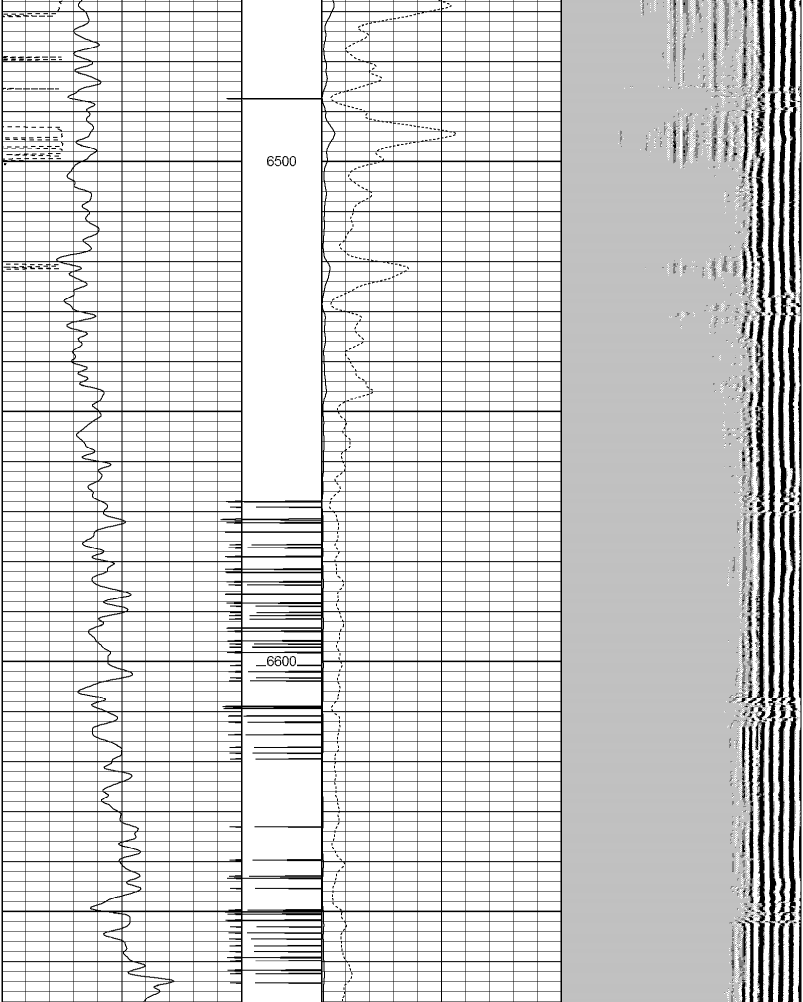


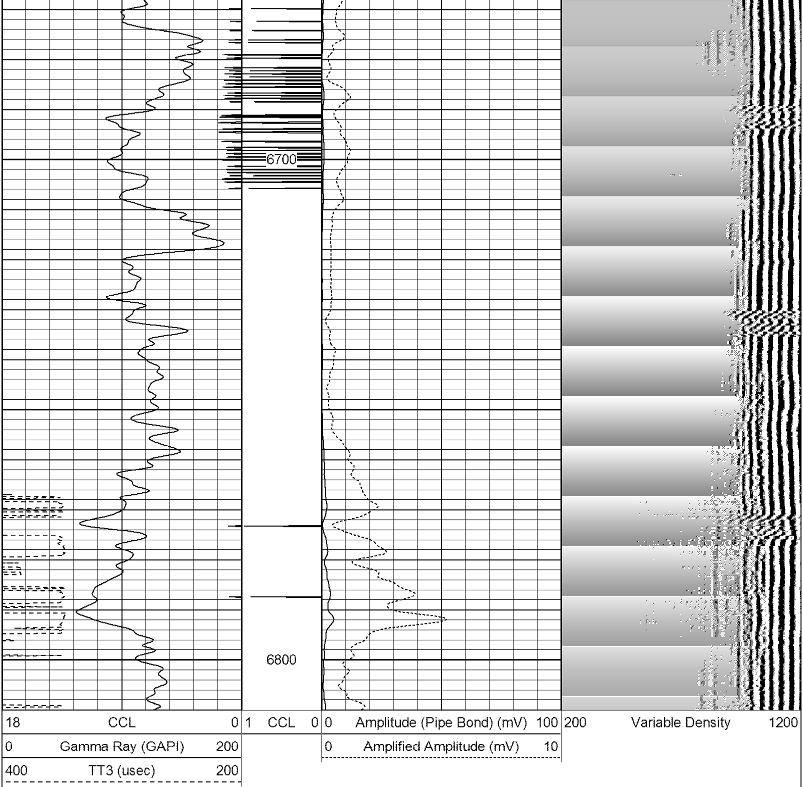











6700
6800
18 CCL 0
0 Gamma Ray (GAPI) 200
400 TT3 (usec) 200
1 CCL 0
0 Amplitude (Pipe Bond) (mV) 100
0 Amplified Amplitude (mV) 10
200 Variable Density 1200