J-W WIRELINE COMPANY

GAMMA RAY CCL
CEMENT BOND VDL

Company Noble Energy INC.
Well Heckendorf 01
Field Wattenberg
County Adams
State Colorado

Company	Noble Energy INC.
Well	Heckendorf 01
Field	Wattenberg
County	Adams
State	Colorado

Location: API # : 05-001-06670

NENE 14-1S-66W

SEC 14 TWP 1S RGE 66W

Other Services

Permanent Datum	GL	Elevation	5050
Log Measured From	KB		
Drilling Measured From	KB		

Elevation
K.B. 5060
D.F.
G.L. 5050

Date	June-28-2013		
Run Number	1		
Depth Driller	8150		
Depth Logger	1726		
Bottom Logged Interval	1726		
Top Log Interval	Surface		
Open Hole Size			
Type Fluid	Water		
Density / Viscosity			
Max. Recorded Temp.			
Estimated Cement Top	815		
Time Well Ready			
Time Logger on Bottom			
Equipment Number	2829		
Location	Sterling		
Recorded By	Kyle Girdler		
Witnessed By	Kelly Reinhardt		

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				
Liner				

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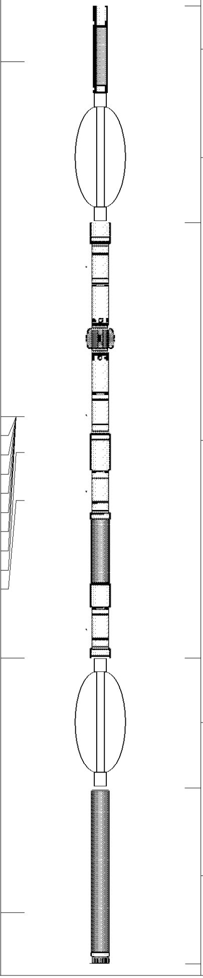
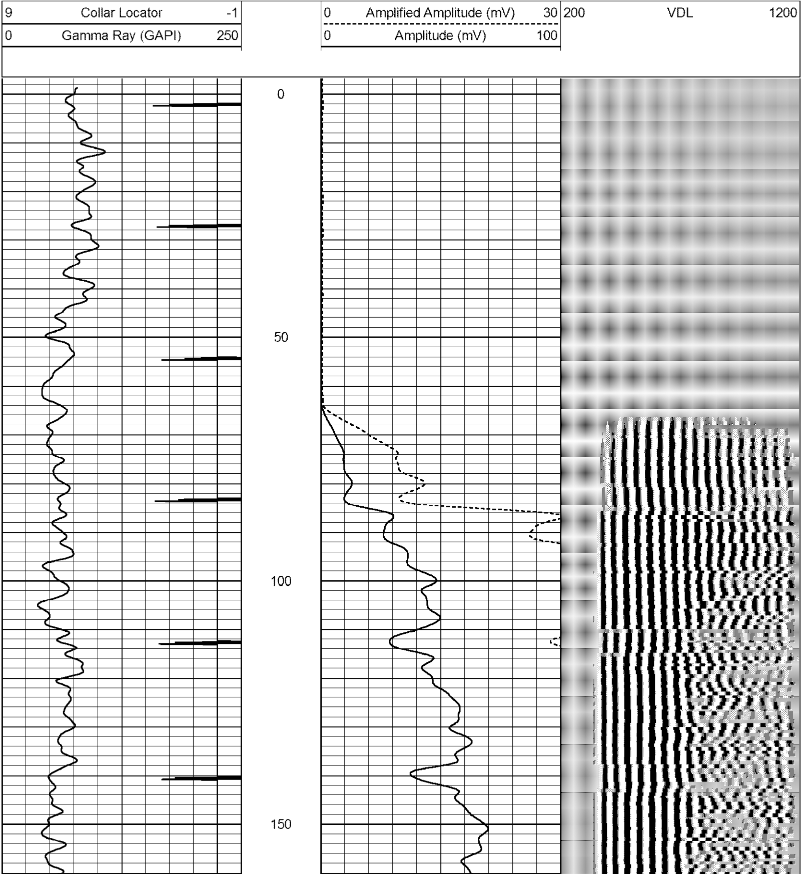
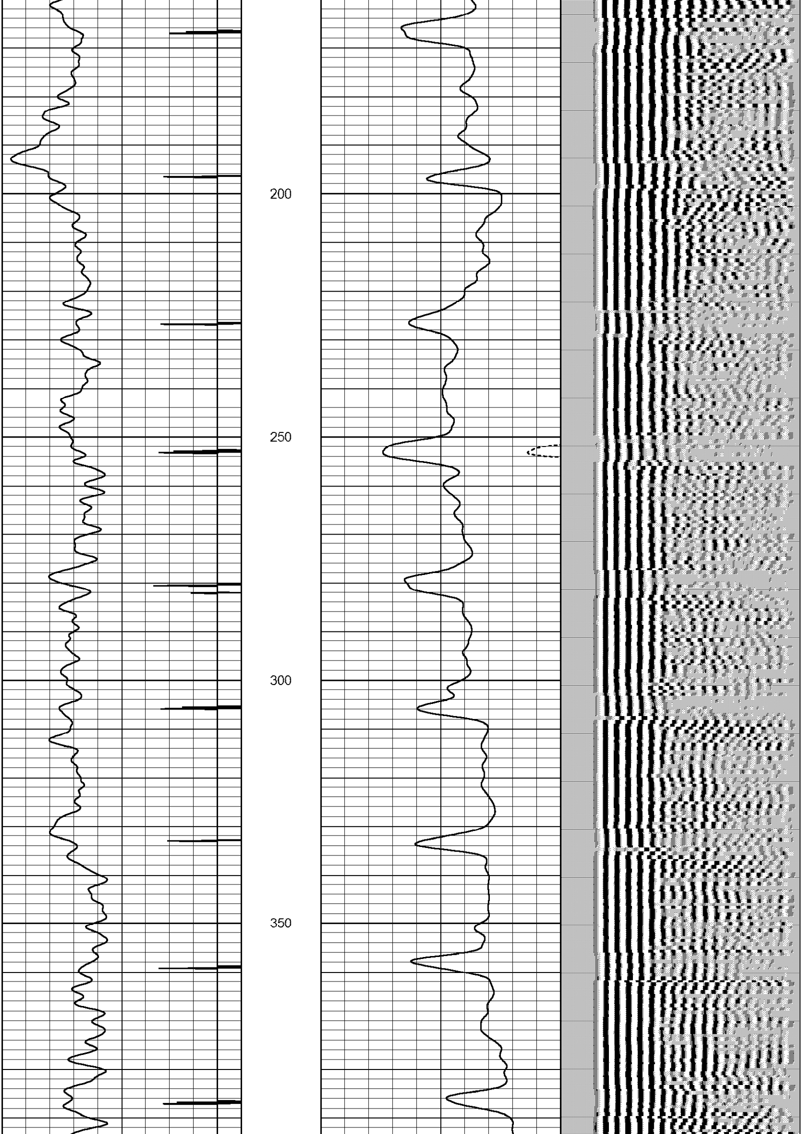
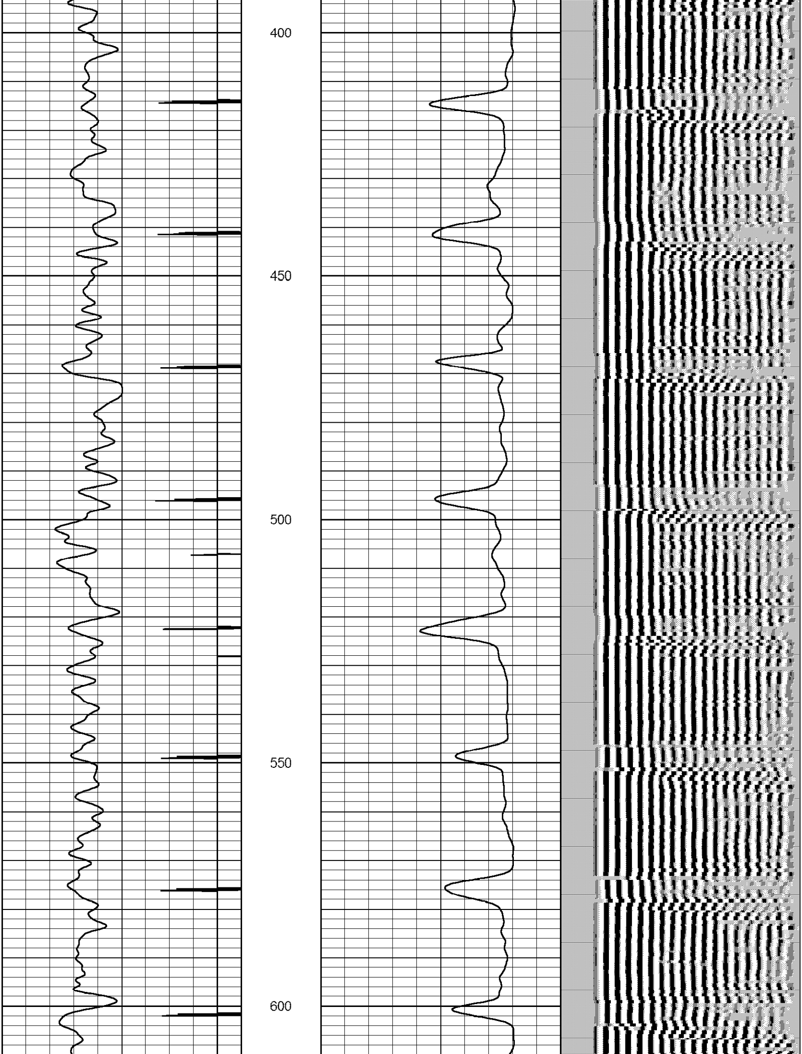
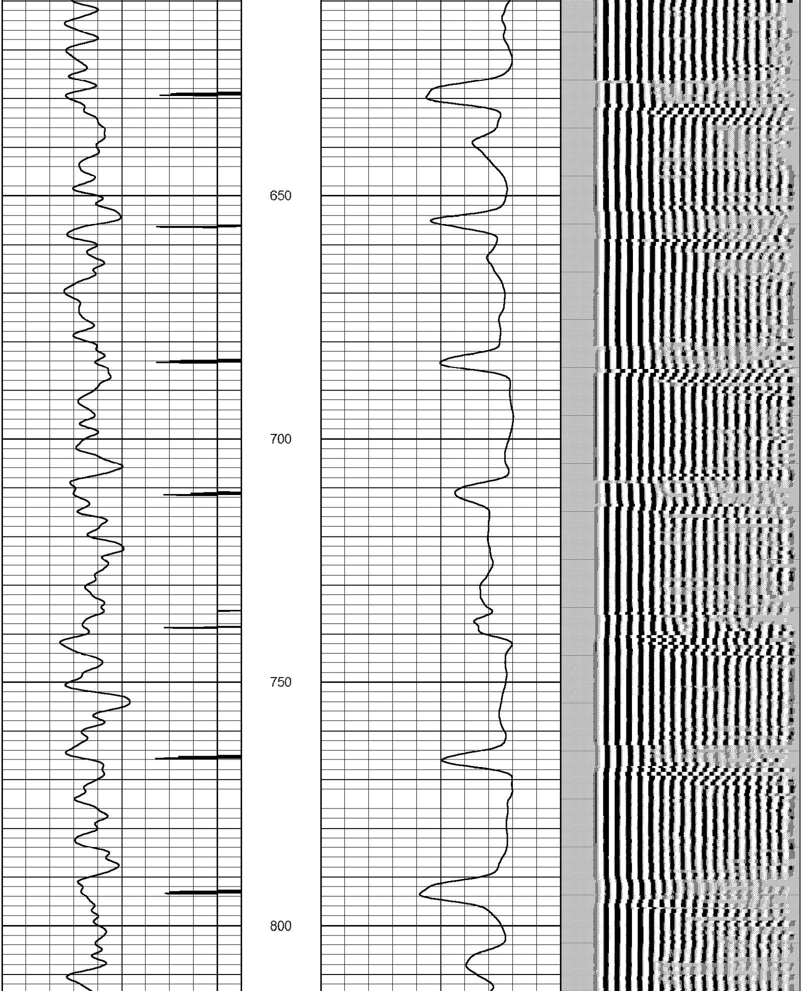
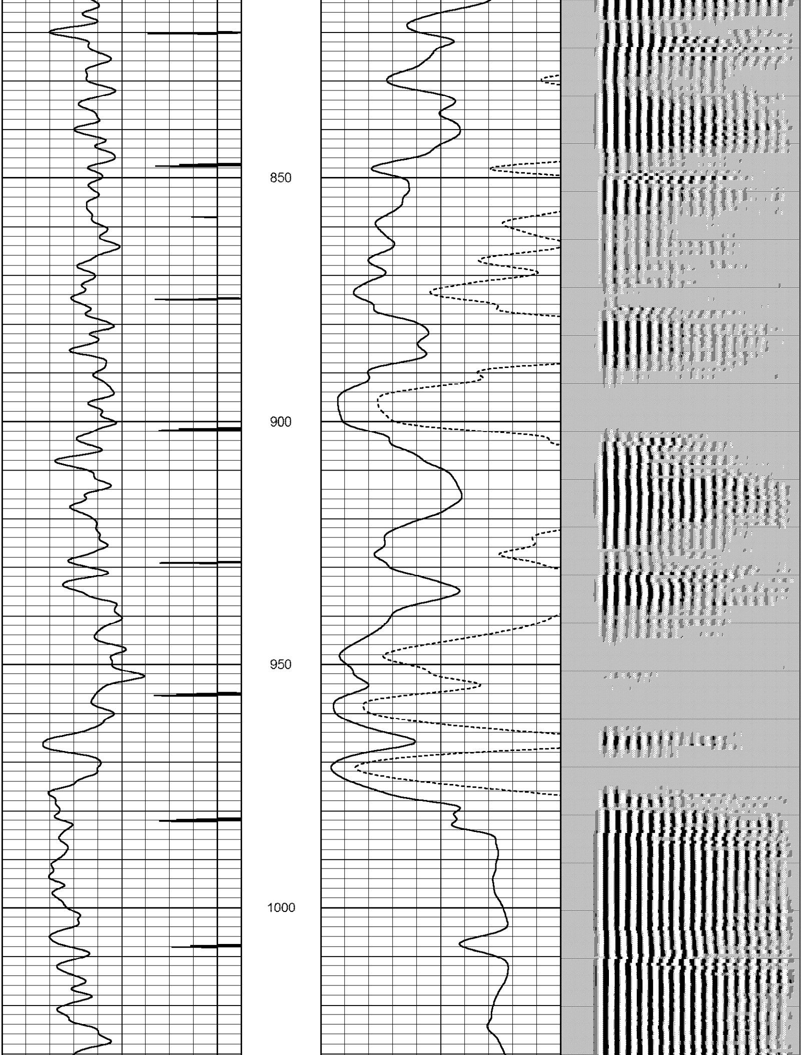
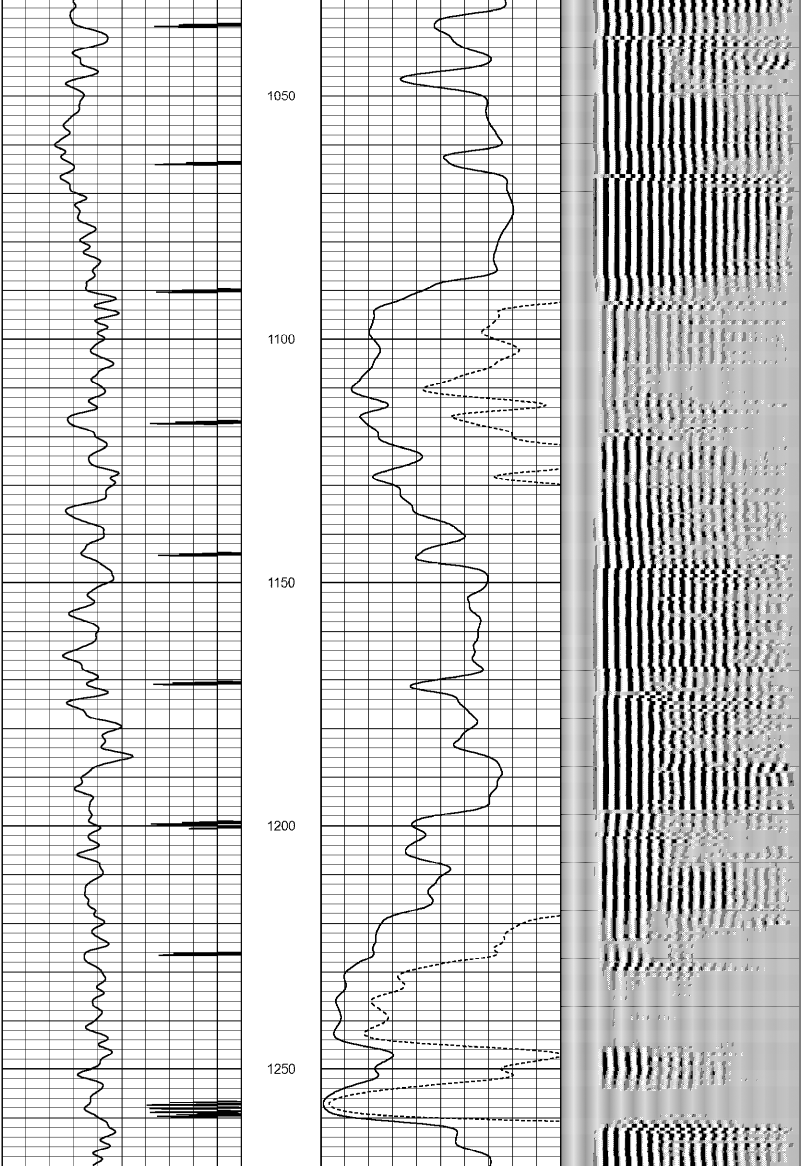
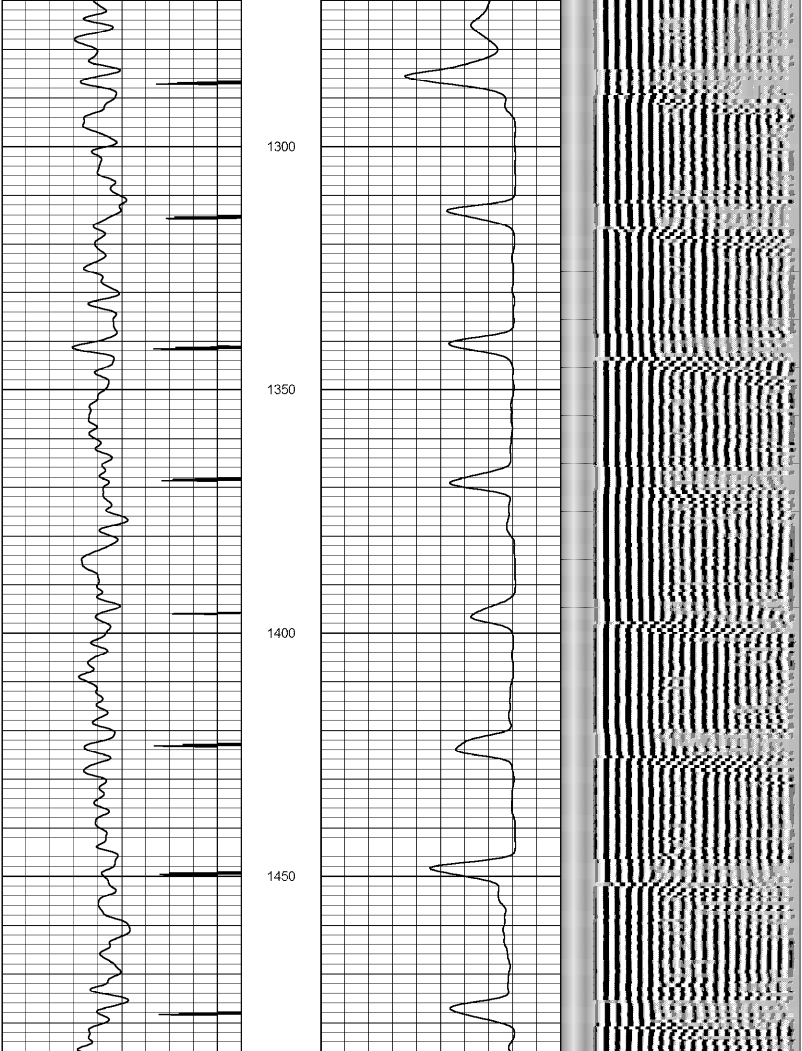
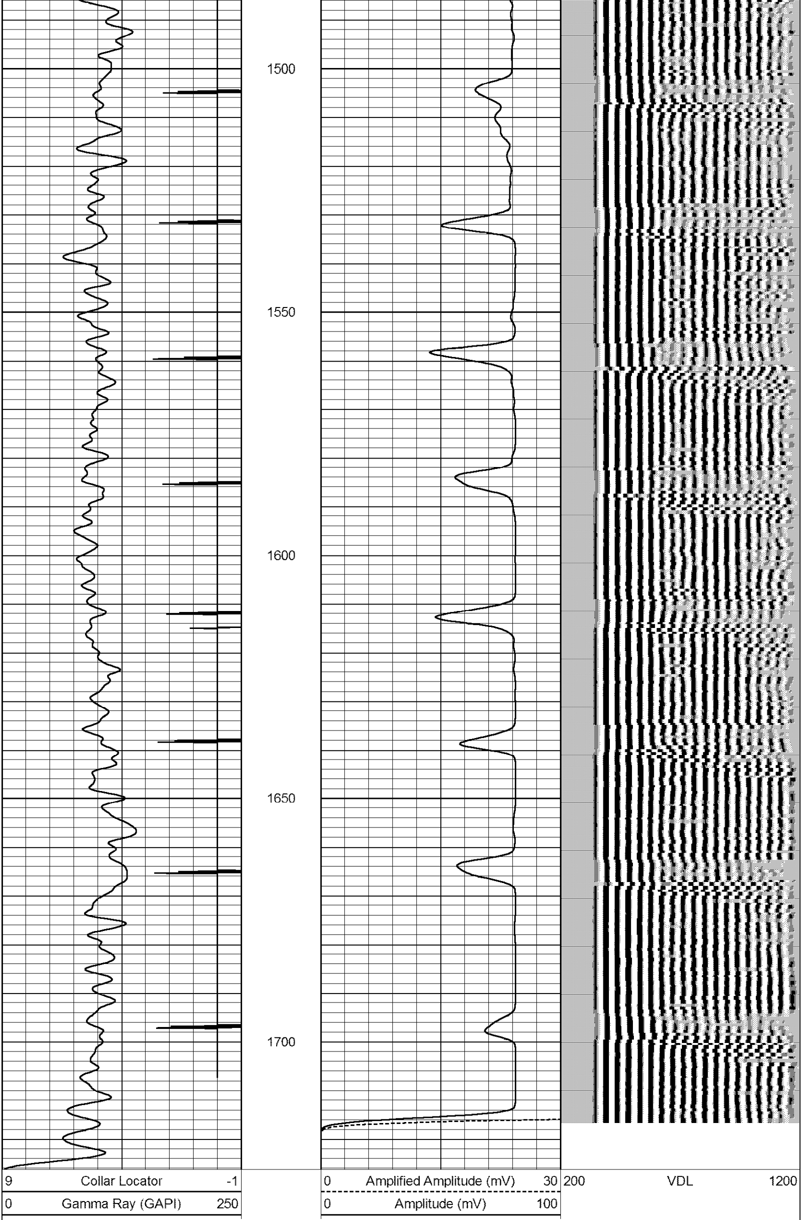
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
CCL	18.81		CCL-275tekco (2.75TEKCO) 2.75" TEK CCL Earth Mag	1.81	2.75	20.00
			CENT-tecko (2.75)	2.71	2.75	20.00
WVFS1	11.42		SCBL-TEKCO-CT (101) TEKCO 2.75 RIB - CT	9.08	2.75	108.00
WVFS2	11.42					
WVFS3	11.42					
WVFS4	11.42					
WVFS5	11.42					
WVFS6	11.42					
WVFS7	11.42					
WVFS8	11.42					
WVF3FT	10.67					
WVF5FT	9.67					
WVFCAL	6.38					
			CENT-tecko (tck)	2.71	2.75	20.00
GR	1.06		GR-TEKCO (234) 2.75 HIGH TEMP LOGGING GR	3.67	2.75	25.00

Dataset:	kelly cbl 6-28-13.db: field/well/run1/pass6
Total Length:	19.98 ft
Total Weight:	193.00 lb
O.D.	2.75 in

Database File: kelly cbl 6-28-13.db
Dataset Pathname: pass6
Presentation Format: scbl_dr
Dataset Creation: Fri Jun 28 09:20:13 2013 by Log SCH 111116
Charted by: Depth in Feet scaled 1:240