J-W WIRELINE COMPANY

CEMENT BOND
GAMMA RAY
COLLAR LOG

Company ANADARKO PETROLEUM CORP.
Well SHUTT FEDERAL 16-18A
Field WATTENBERG
County WELD
State COLORADO

Company	ANADARKO PETROLEUM CORP.
Well	SHUTT FEDERAL 16-18A
Field	WATTENBERG
County	WELD
State	COLORADO

Location: API # : 05-123-21244-00

SE SE

SEC 18 TWP 3N RGE 66W

Other Services

NONE

Permanent Datum	GL	Elevation	4870
Log Measured From	KB		
Drilling Measured From	KB		

Elevation
K.B. 4882
D.F.
G.L. 4870

Date	05-DECEMBER-2013		
Run Number	ONE		
Depth Driller	7910		
Depth Logger	4805		
Bottom Logged Interval	4798		
Top Log Interval	3730		
Open Hole Size	7 7/8		
Type Fluid	WATER		
Density / Viscosity	---		
Max. Recorded Temp.	NOT RECORDED		
Estimated Cement Top	3850		
Time Well Ready	---		
Time Logger on Bottom	---		
Equipment Number	2405/TITAN		
Location	BRIGHTON		
Recorded By	HAYES		
Witnessed By	MR.RODRIGO VIERA		

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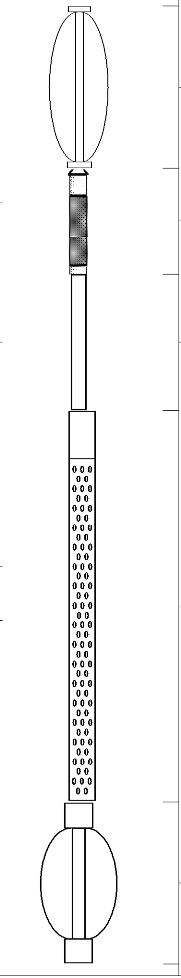
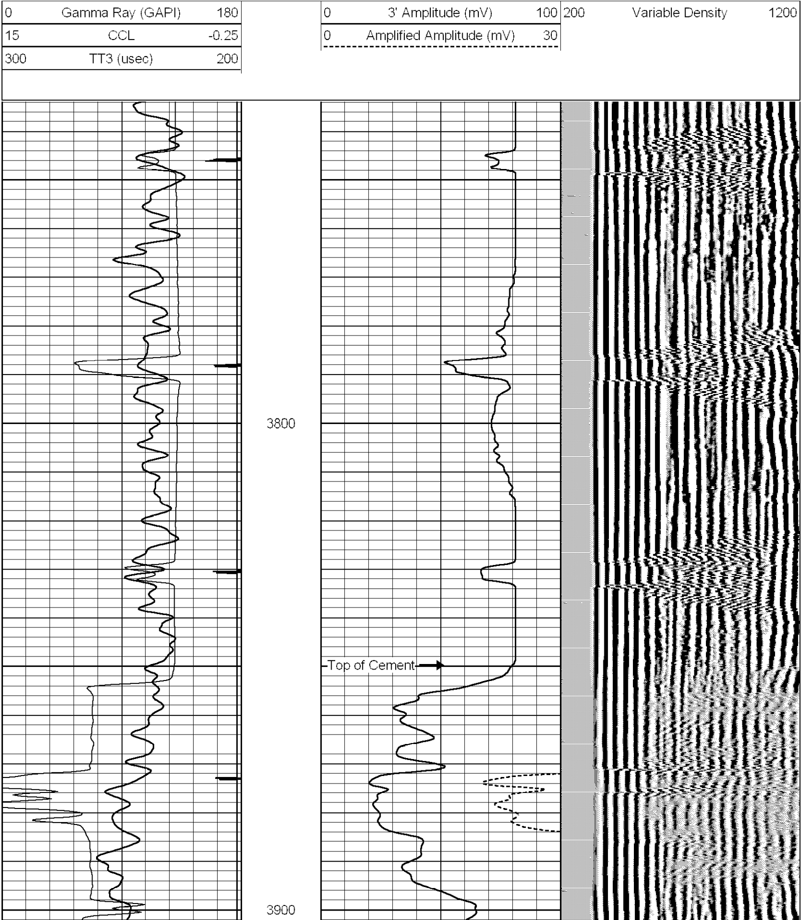
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

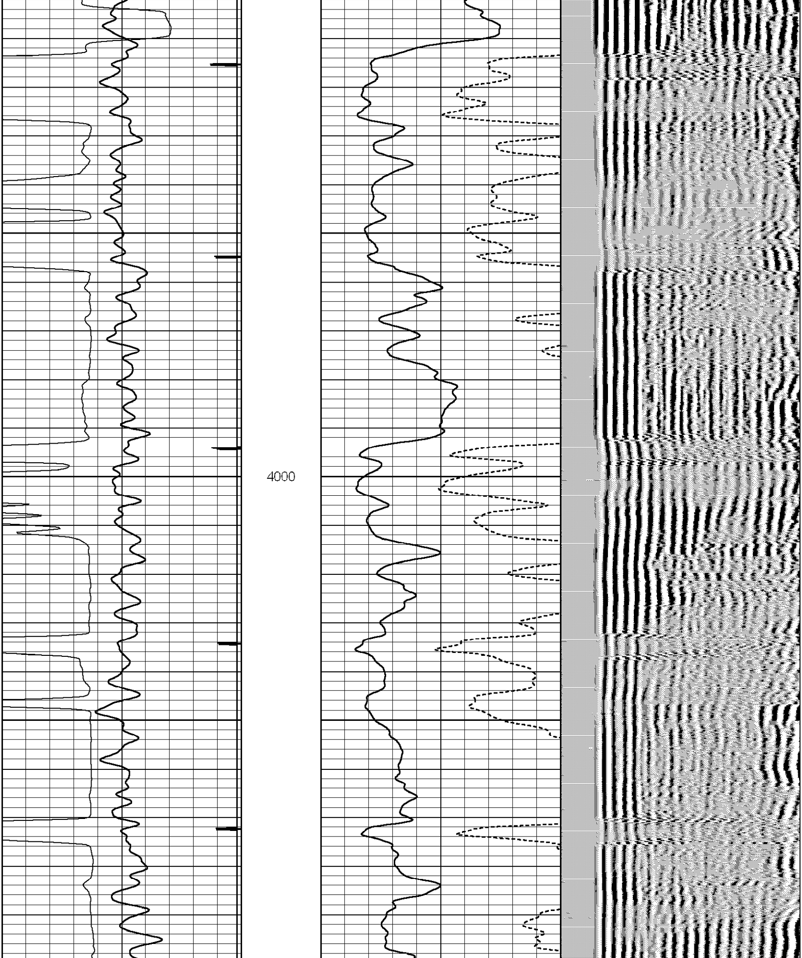
Comments

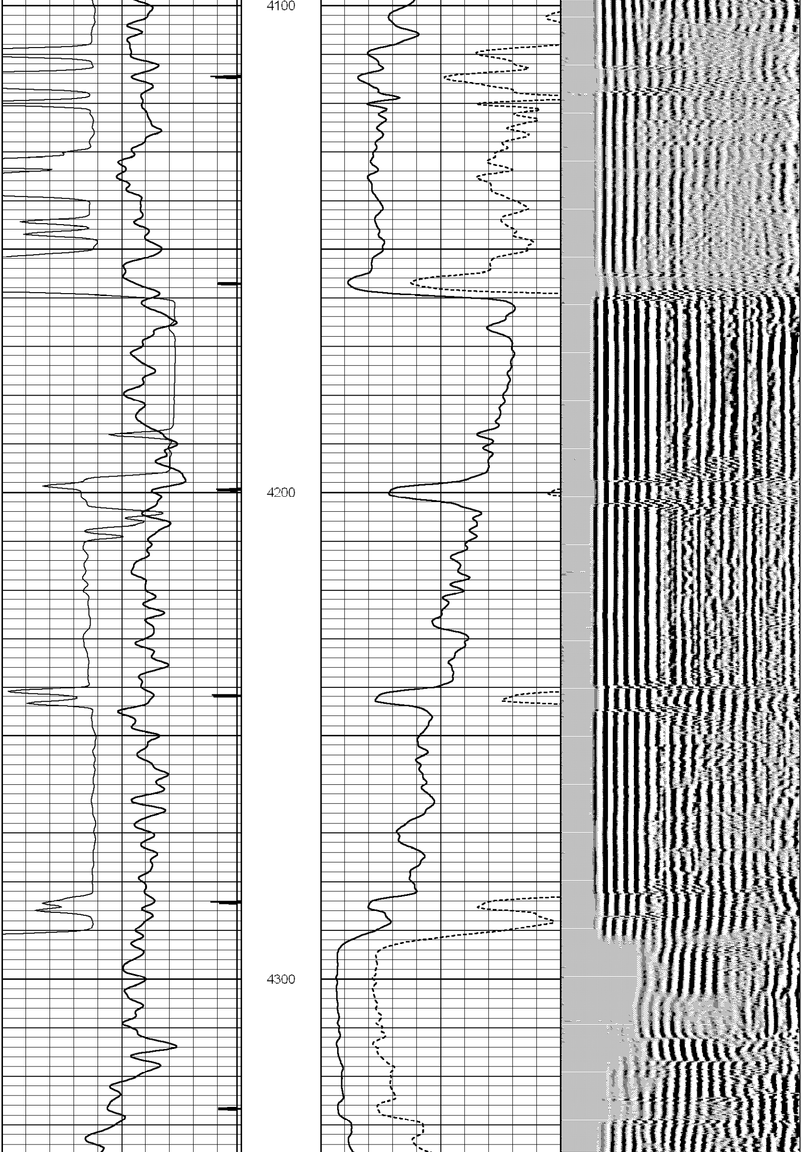
Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			CENT-A (1)	3.00	1.69	10.00
CCL	14.06					
			CCL-275tekco (2.75TEKCO) 2 3/4 TEK CCL Earth Mag	1.96	2.75	20.00
GR	11.49		GR-s_t001 (t001)	2.52	1.69	30.00
WVF5	7.34					
WVF3	6.34					
			CBL-3_5 (001)	7.23	2.44	127.00
			CENT-B (2)	3.00	1.69	10.00

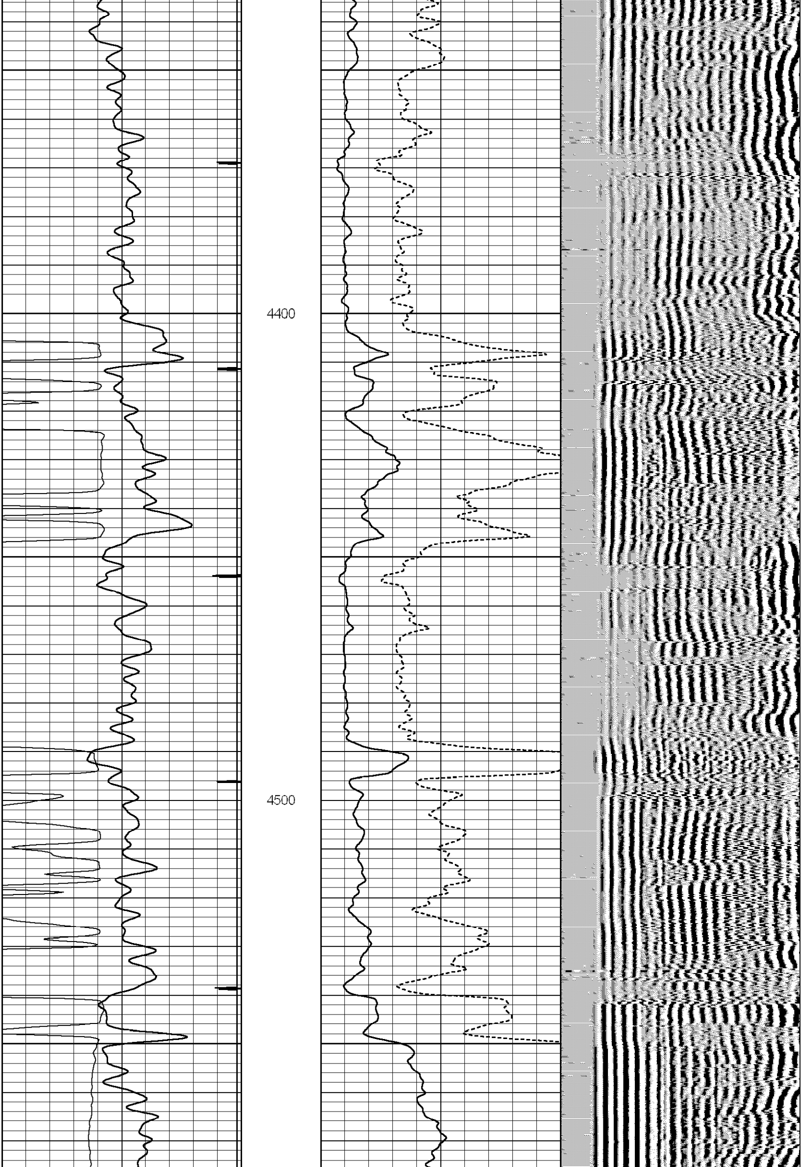
Dataset:	shutt federal 16-18a.db: field/well/run1/pass1
Total Length:	17.71 ft
Total Weight:	197.00 lb
O.D.	2.75 in

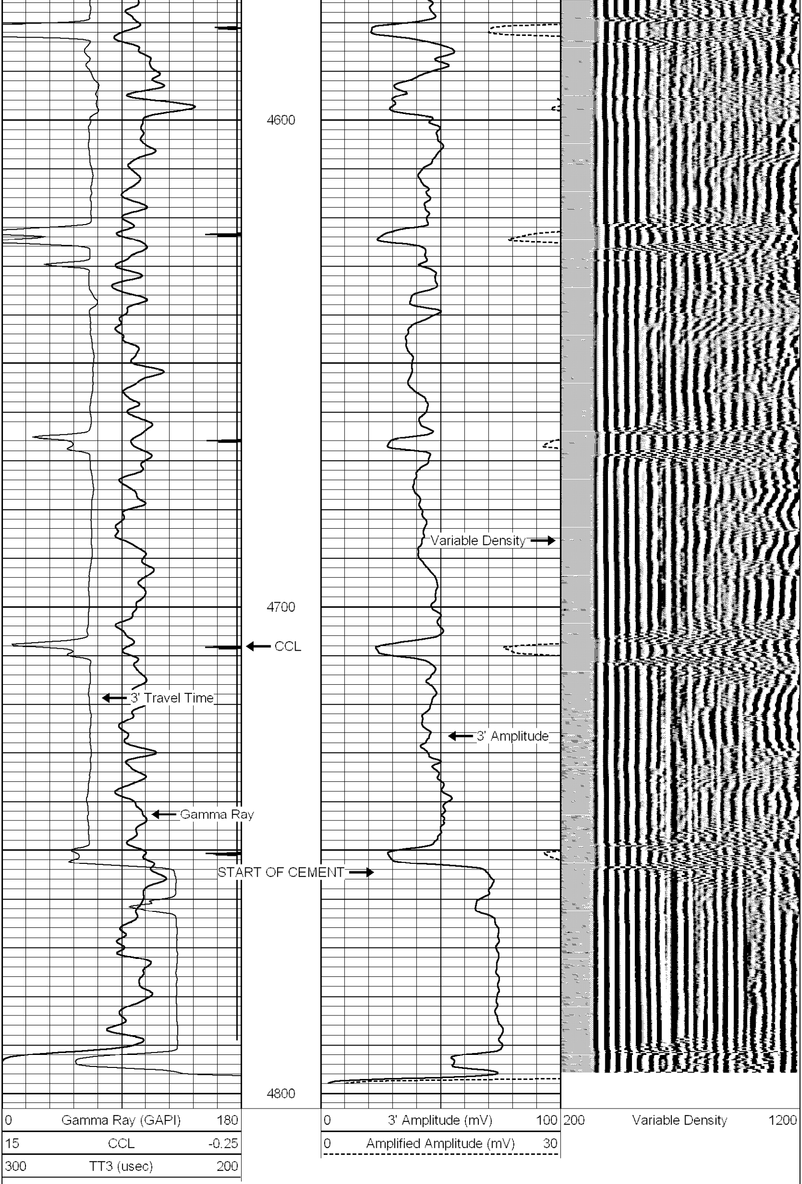
Database File: shutt federal 16-18a.db
Dataset Pathname: pass1
Presentation Format: cblx
Dataset Creation: Thu Dec 05 19:36:34 2013 by Log SCH 111116
Charted by: Depth in Feet scaled 1:240











Calibration Report

Database File: shutt federal 16-18a.db
Dataset Pathname: pass1
Dataset Creation: Thu Dec 05 19:36:34 2013 by Log SCH 111116

Cement Bond Log Calibration Report

Serial Number: 001
Tool Model: 3_5
Performed: Thu Dec 05 19:24:13 2013

Depth: 545.65 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	0	V
Reading in Free Pipe:	2.5	2.29919	V
Gain:	31.2784	34.0102	
Offset:	3	3	

Gamma Ray Calibration Report

Serial Number: t001
Tool Model: s_t001
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