Company	Kerr-McGee Oil & Gas Onshore LP
Well	Denver 36-18
Field	Wattenberg
County	Weld
State	Colorado

PSI
PHOENIX SURVEYS, INC.

Cement Bond Log
Gamma Ray-CCL-VDL

Company	Kerr-McGee Oil & Gas Onshore LP
Well	Denver 36-18
Field	Wattenberg
County	Weld State Colorado

Location: API #: 05-123-32637-0000
1177' FSL & 806' FEL
SE SE
SEC 18 TWP 1N RGE 66W

Other Services

Permanent Datum	Ground Level	Elevation	4935'	Elevation K.B. 4949' D.F. 4948' G.L. 4935'
Log Measured From	Kelly Bushing			
Drilling Measured From	Kelly Bushing			

Date	May, 17 2011
Run Number	1
Depth Driller	8497'
Depth Logger	8000'
Bottom Logged Interval	8000'
Top Log Interval	7050'
Open Hole Size	7.875"
Type Fluid	Water
Density / Viscosity	N/A
Max. Recorded Temp.	N/A
Estimated Cement Top	N/A
Time Well Ready	N/A
Time Logger on Bottom	N/A
Equipment Number	#1
Location	Ft Morgan
Recorded By	Josh Horton
Witnessed By	Rusty Tucker

Borehole Record			Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To

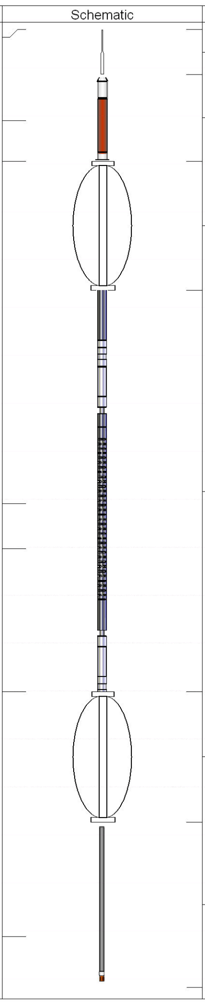
Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String				
Prot. String				
Production String	4.5	11.3#	Surface	8497'
Liner				

<<< Fold Here >>>

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

Thanks For Using Phoenix Surveys!!
S0#201886

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
CHD	21.25		STNDRD Standard Cable Head	1.00	1.69	1.00
CCL	19.23		CCL-titan01 (TITLOG)	1.92	2.75	
CENT	18.33					
			SDSCENT Centralizer	2.88	2.75	20.00
WVF3	10.73		CBL-Probe (050215) Probe 2.75" Dual Receiver Bond	8.92	2.75	60.00
WVF5	9.73					
CENT	6.54					
			SDSCENT Centralizer	2.88	2.75	20.00
			GR-probe 2.75 (51013)	3.67	2.75	100.00
GR	1.13					

Dataset: denver_36-18.db: field/well/run1/pass1
Total Length: 21.25 ft
Total Weight: 201.00 lb
O.D. 2.75 in

Calibration Report

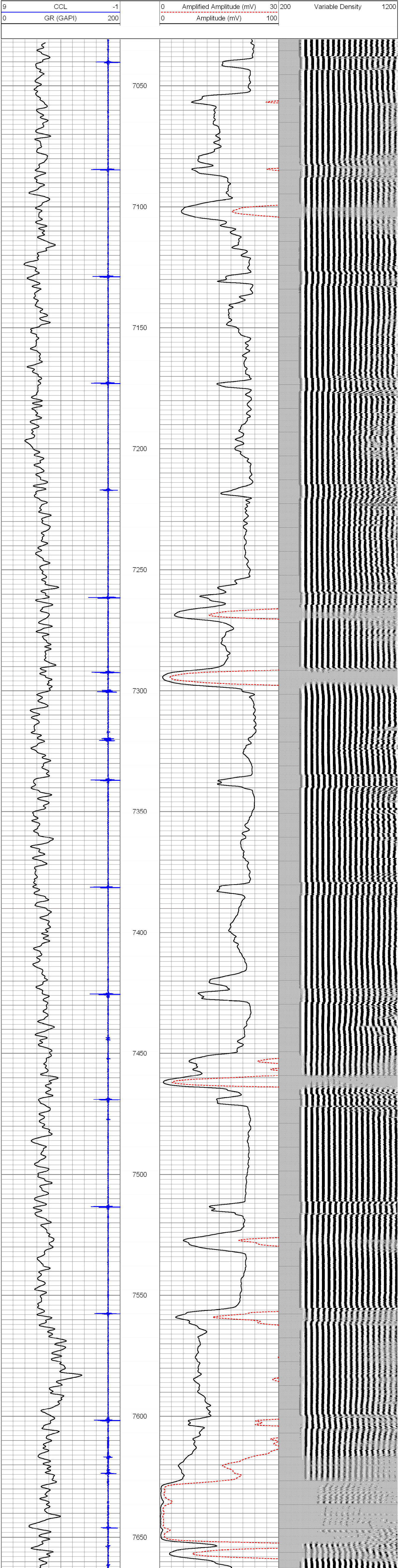
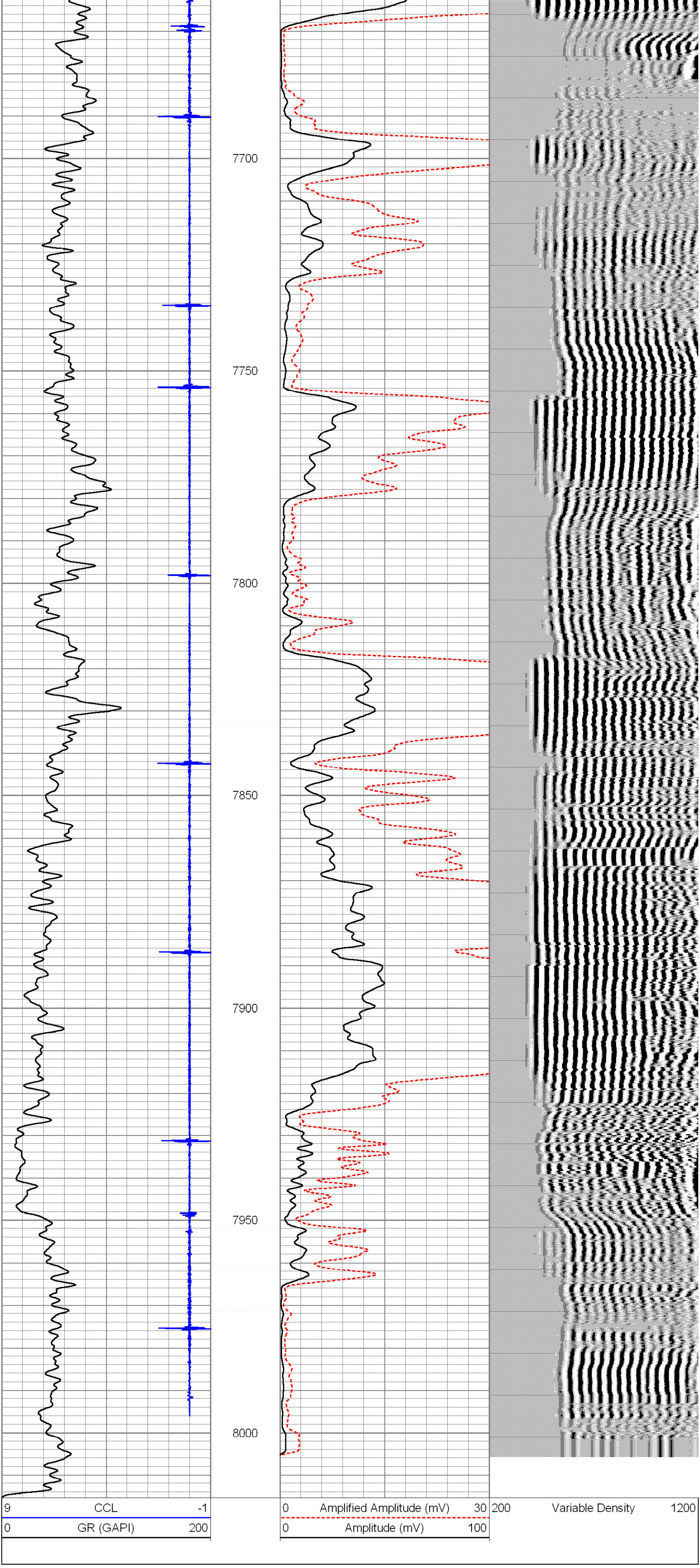
Database File: denver_36-18.db
Dataset Pathname: pass1
Dataset Creation: Tue May 17 09:10:11 2011 by Log Std Casedhole 10081

Gamma Ray Calibration Report

Serial Number:	51013	
Tool Model:	probe 2.75	
Performed:	Mon Sep 22 09:55:30 2008	
Calibrator Value:	1400.0	GAPI
Background Reading:	26.8	cps
Calibrator Reading:	1120.0	cps
Sensitivity:	0.9000	GAPI/cps

Cement Bond Log Calibration Report

Serial Number:	050215		
Tool Model:	Probe		
Performed:	Thu May 05 15:46:48 2011		
Depth:	0.075	ft	
Casing Diameter:	4.5	in	
	3' Spacing	5' Spacing	
Signal Zero:	0	0	mV
Calibrated Amplitude:	81.1961	81.1961	mV
Reading at Signal Zero:	0.012085	0.0146484	V
Reading in Free Pipe:	2.49878	2.49878	V
Gain:	32.6522	32.6859	
Offset:	-0.394601	-0.478798	

Database File: denver_36-18.db
Dataset Pathname: pass1
Presentation Format: cbl_dr
Dataset Creation: Tue May 17 09:10:11 2011 by Log Std Casedhole 10081
Charted by: Depth in Feet scaled 1:240