WARRIOR ENERGY SERVICES

Radial Cement Bond
Gamma Ray
C.C.L.

Company Bonanza Creek
Well Pronghorn 41-44-18 HNB
Field Wattenberg
County Weld
State CO

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Field	Wattenberg
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State	CO

Location: API #: 05-123-35696
NENE
SEC 18 TWP 5N RGE 61W

Other Services

Permanent Datum	G.L.	Elevation	4587
Log Measured From	K.B. 15'		
Drilling Measured From	K.B.		

Elevation
K.B. 4602
D.F. 4601
G.L. 4587

Date	1-21-2013
Run Number	One
Depth Driller	
Depth Logger	6234
Bottom Logged Interval	6231
Top Log Interval	1300/Fluid level 1344
Open Hole Size	
Type Fluid	Water
Density / Viscosity	1.0
Max. Recorded Temp.	191
Estimated Cement Top	3154
Time Well Ready	
Time Logger on Bottom	
Equipment Number	3812
Location	Greeley
Recorded By	C.Jones
Witnessed By	J. Kauffmann

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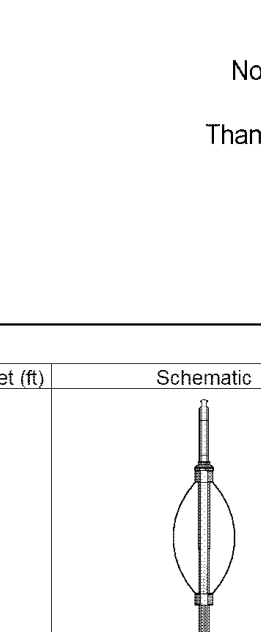
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

No Open Hole Logs, Zero'd at 15' K.B.

Thanks for using Warrior Energy Services!!



Sensor	Offset (ft)	Description	Len (ft)	OD (in)	Wt (lb)
		STD-Standard (STNDRD) Standard Cable Head	0.83	1.44	1.00
		Probe	2.67	2.75	40.00
HEADVOLT	15.92				
IntTemp	14.50				
WVF3FT	11.25	RBT-Probe (Base) Probe Radii Bond Tool with Digital Telemetry	8.92	2.75	90.00
WVFCAL	11.25				
WVFS1	11.25				
WVFS2	11.25				
WVFS3	11.25				
WVFS4	11.25				
WVFS5	11.25				
WVFS6	11.25				
WVFS7	11.25				
WVFS8	11.25				
WVF5FT	10.25				
		Probe	2.67	2.75	40.00
CCL	3.64				
		GR-Probe (275) Probe 2.75"	4.33	2.75	30.00
GR	0.90				

Dataset: pronghorn41-44-18 hnb.db: field/well/run1/pass4
Total Length: 19.42 ft
Total Weight: 201.00 lb
O.D. 2.75 in

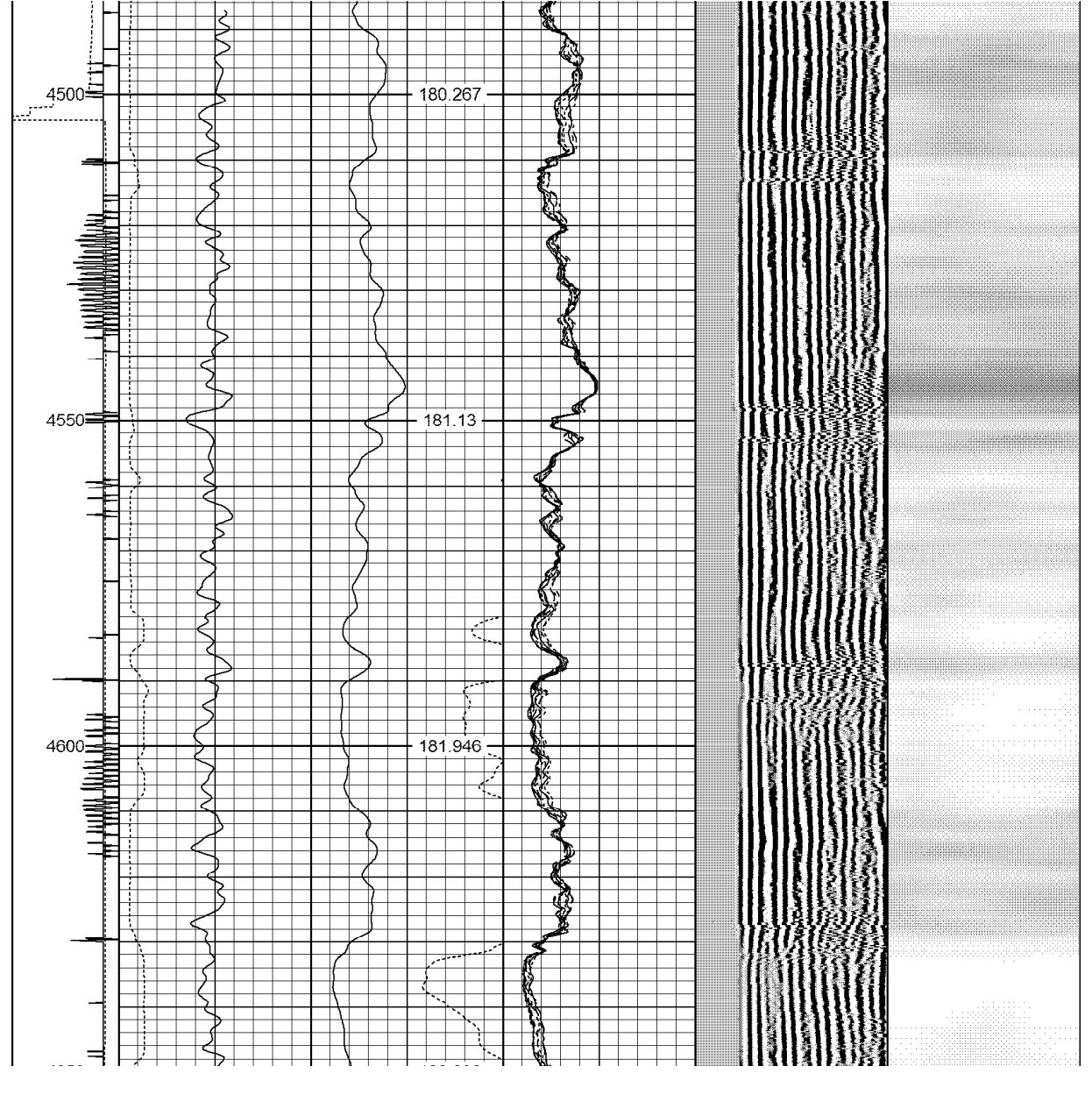
Database File: pronghorn41-44-18 hnb.db
Dataset Pathname: pass4
Presentation Format: ips_rbt
Dataset Creation: Mon Jan 21 11:55:20 2013 by Log Std Casedhole 09061
Charted by: Depth in Feet scaled 1:240

-6 CCL 1	275 TT (usec) 900	0 AMP (mV) 100	0 AMPS1 100	200 VDL 1200	1 Cement Map 8
LSPD (ft/min) 0 100	30 GR (GAPI) 130	0 AMPx5 (mV) 20	0 AMPS2 100		10 85
	130 GR (GAPI) 230	IntTemp (degF)	0 AMPS3 100		
			0 AMPS4 100		
			0 AMPS5 100		
			0 AMPS6 100		
			0 AMPS7 100		
			0 AMPS8 100		

-6 CCL 1	275 TT (usec) 900	0 AMP (mV) 100	0 AMPS1 100	200 VDL 1200	1 Cement Map 8
LSPD (ft/min) 0 100	30 GR (GAPI) 130	0 AMPx5 (mV) 20	0 AMPS2 100		10 85
	130 GR (GAPI) 230	IntTemp (degF)	0 AMPS3 100		
			0 AMPS4 100		
			0 AMPS5 100		
			0 AMPS6 100		
			0 AMPS7 100		
			0 AMPS8 100		

Database File: pronghorn41-44-18 hnb.db
Dataset Pathname: pass3
Presentation Format: ips_rbt
Dataset Creation: Mon Jan 21 11:33:56 2013 by Log Std Casedhole 09061
Charted by: Depth in Feet scaled 1:240

-6 CCL 1	275 TT (usec) 900	0 AMP (mV) 100	0 AMPS1 100	200 VDL 1200	1 Cement Map 8
LSPD (ft/min) 0 100	0 GR (GAPI) 200	0 AMPx5 (mV) 20	0 AMPS2 100		10 85
	200 GR (GAPI) 400	IntTemp (degF)	0 AMPS3 100		
			0 AMPS4 100		
			0 AMPS5 100		
			0 AMPS6 100		
			0 AMPS7 100		
			0 AMPS8 100		



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