WARRIOR ENERGY SERVICES

Company: PDC ENERGY Inc.
Well: MAGNUSON 23L-421
Field: WATTENBERG
County: WELD
State: CO

CEMENT BOND LOG GAMMA RAY CCL

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Location: API #: 05-123-39361
SW/SW Sec: 23 Twp: 7N Rge: 66W
Permanent Datum: GL Elev.: 4899
Log Measured From: KB 25 ft above Permanent Datum
Drilling Measured From: KB

	Size	Top	Bottom
Surface Casing	9 5/8	0	1015
Production Casing	4 1/2	0	8399

Other Services:

>>> Field 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.

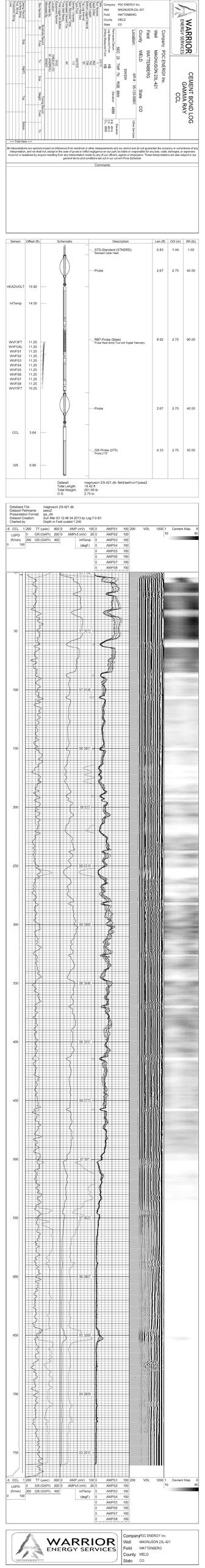
Comments

Sensor	Offset (ft)	Schematic	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 WVFCAL WVFS1 WVFS2 WVFS3 WVFS4 WVFS5 WVFS6 WVFS7 WVFS8 WVFSFT	11.25 11.25 11.25 11.25 11.25 11.25 11.25 11.25 11.25 11.25 10.25		RBT-Probe (Base) Probe Rebi Bond Tool with Digital Telemetry	8.92	2.75	90.00
			Probe	2.67	2.75	40.00
CCL	3.64					
			GR-Probe (27S) Probe 2.75"	4.33	2.75	30.00
GR	0.90					

Dataset: magnuson 23l-421.db: field/welltrun1/pass2
Total Length: 19.42 ft
Total Weight: 297.00 lb
O.D. 2.75 in

Database File: magnuson 23l-421.db
Dataset Pathname: pass2
Presentation Format: ips_r5f
Dataset Creation: Sun Mar 03 12:48:34 2013 by Log 7.0 B1
Charted by: Depth in Feet scaled 1:240

CCL	TT (usec)	AMP (mV)	AMPS1	VDL	Cement Map
LSPD	GR (GAPI)	AMPx (mV)	AMPS2		
(ft/min)		IntTemp	AMPS3		
		(degF)	AMPS4		
			AMPS5		
			AMPS6		
			AMPS7		
			AMPS8		



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(ft/min) | | IntTemp | AMPS3
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