Company	PDC Energy
Well	Challenger 3N
Field	Wattenberg
County	Weld
State	CO

C&J ENERGY SERVICES

GAMMA RAY C.C.L. CEMENT BOND V.D.L.

Company	PDC Energy
Well	Challenger 3N
Field	Wattenberg
County	Weld
State	CO
Location:	1397' FSL & 1197' FWL
	API # 05-123-40889
Elevation	4779' GL 4791' DF 4791' KB

Log Measured From: KB, 12 Ft. Above Perm. Datum
Drilling Measured From: KB

Date	April 3, 2019				
Run Number	One				
Depth-Driller	14,897'				
Depth-Logger	14,890'				
Bottom Logged Interval	14,890'				
Top Logged Interval	200'				
Casing-Driller	9.625" @ 2,000'				
Casing-Logger	2,000'				
Bit Size	8.5"				
Type Fluid	Water				
Density / Viscosity	8.4				
Max Recorded Temp.	230°				
Estimated Cement Top					
Time Logger On Bottom					
Equipment Number	Probe 3.62" Eccentralized Tool				
Location	Greeley, CO				
Recorded By	Ryan Bender				
Witnessed By					

Casing Record	Size	Weight	From	To
Surface String	9.625"	36#	0'	2,000'
Prod. String				
Liner				
Liner				
Tubing				

Tubing Record	Size	Weight	From	To
Tubing				
Tubing				
Tubing				

Other Services

<<< 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

Challenger 9 Well Pad

<NORTH> O O X O O O O O O <SOUTH>

X = Challenger 3N

Database File: pdcc3n.db
Dataset Pathname: pass2
Presentation Format: sector2
Dataset Creation: Wed Apr 03 08:50:07 2019 by Log 7.0 B1
Charted by: Depth in Feet scaled 1:240

0	GR (GAPI)	110	5	CCL 5.5	0	AMPMAX	100
400	TTSFT 0 (usec)	700			0	AMPAVG	100
-50	CCL	5			0	AMPMIN	100
					0	AMPSFT (mV)	100

WVFSFT 1200:1 Sector Map 8

Fluid Level

50 100 150 200 250 300 350 400 450 500 550 600 650 700 750 800 850 900 950 1000 1050 1100 1150 1200 1250 1300 1350 1400 1450 1500 1550 1600 1650 1700 1750 1800 1850 1900 1950 2000 2050 2100 2150 2200 2250 2300 2350 2400 2450 2500 2550 2600 2650 2700 2750 2800 2850 2900 2950 3000 3050 3100 3150 3200 3250 3300 3350 3400 3450 3500 3550 3600 3650 3700 3750

3800
3850
3900
3950
4000
4050
4100
4150
4200
4250
4300
4350
4400
4450
4500
4550
4600
4650
4700
4750
4800
4850
4900
4950
5000
5050
5100
5150
5200
5250
5300
5350
5400
5450
5500
5550
5600
5650
5700
5750
5800
5850
5900
5950
6000
6050
6100
6150
6200
6250
6300
6350
6400
6450
6500
6550
6600
6650
6700
6750
6800
6850
6900
6950
7000
0 GR (GAPI) 110.5
400 TT3FT (usec) 200
-50 CCL 5
CCL 5.5
0 AMPMAX 100
0 AMPAVG 100
0 AMPMIN 100
0 AMP3FT (mV) 100
200 WVF5FT 1200
1 Sector Map 8