



Well History

Well Name: Bond 21-9

API 05123207030000	Surface Legal Location NENW 9 5N 64W	Field Name Wattenberg	State CO	Well Configuration Type Vertical
Ground Elevation (ft) 4,600.00	Original KB Elevation (ft) 4,610.00	KB-Ground Distance (ft) 10.00	Spud Date 12/31/2001 00:00	Rig Release Date 1/28/2002 00:00
			On Production Date 2/18/2002	

Job

Drilling - original, 12/31/2001 00:00

Job Category Drilling	Primary Job Type Drilling - original	Start Date 12/31/2001	End Date 1/15/2002	Objective Drill a new Codell Well
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Daily Operations

Start Date	Summary	End Date
12/31/2001	Key Rig #592: MIRU. Spud hole and set 1 joint of conductor pipe. RDMO.	
1/11/2002	Fort Drilling Rig #2: MIRU. Drill rat and mouse holes and began drilling 12 1/4" hole at 11:45 PM.	
1/12/2002	Fort Drilling Rig #2: TD 12 1/4" at 6:45 AM at 480'. Condition hole and trip out. Rig up Casers and ran 11 joints of new, 24#, J-55, 8 5/8" casing to 465'. Set at 477'. Rigged up Cementer's Well Service and pumped 335 sacks of Neat cement + 3% CaCl + 1/4 # per sack of Flake. Plug down at 11:30 AM. Wait on cement and nipple up BOPE and test. Began drilling 7 7/8" hole at 9:45 PM.	
1/13/2002	Fort Drilling Rig #2: At 1772' and drilling 7 7/8" hole. Last survey: 1.5 degrees at 1551'	
1/14/2002	Fort Drilling Rig #2: At 4885' and drilling 7 7/8" hole. Last survey: 1/2 degree at 4700'.	
1/15/2002	Fort Rig #2: TD 7 7/8" hole @ 7025' KB. MIRU PSI and ran Comp Density/Comp Neutron/Dual Induction log. LTD @ 7024' KB. RU casing crew. Ran Topco Auto Fill Guide Shoe, 15' shoe joint, 2 joints of 10.5 #/ft, M-65 and 162 joints of 11.6 #/ft, M-80, 4 1/2" casing. Casing set @ 7001' KB. RU Halliburton and pumped 11 bbl mud flush, 11 bbl spacer, 7 bbl Class G (20 sx), 144 bbl HLC III + additives (200 sx) and 39 bbl Premium G + additives (130 sx). Released wiper plug and displaced with 108 bbl treated water. Plug down OK @ 5:40 am. ECT @ 3150'. Released rig @ 7:00 am.	

Initial Completion, 1/25/2002 00:00

Job Category Completion/Workover	Primary Job Type Initial Completion	Start Date 1/25/2002	End Date 1/31/2002	Objective Complete a Codell well
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Daily Operations

Start Date	Summary	End Date
1/25/2002	MIRU Nuex Wireline. Ran GRVDL/CBL. PBTD @ 6974' KB. CT @ 2990' KB. Perforated the Codell from 6828' to 6838' KB with 30, .34 diameter holes, 3 spf, 120 deg phasing. RDMO.	
1/28/2002	MIRU BJ Services. Frac'd the Codell with 2430 bbl Vistar 20/18# fluid system and 177000# 20/40 mesh white sand. Break down 3106 psig; MTP - 5000 psig; ATP - 3900 psig; AIR - 16.1 bpm; ISIP - 4496 psig; Flushed with 29 bbl (well screened out in flush). Flowed well back to tank on 12/64 choke.	
1/31/2002	Flowed well to tank thru 12/64 choke to clean up. FL casing pressure 290#. LR 51. TLR 965. 90% oil cut, SI well.	

Tubing Repair, 4/10/2002 00:00

Job Category Completion/Workover	Primary Job Type Tubing Repair	Start Date 4/10/2002	End Date 4/13/2002	Objective install tubing in codell well
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Daily Operations

Start Date	Summary	End Date
4/10/2002	MIRU completion rig. Kill well with 2% KCL fluid. NU BOPs & RIH with 2 3/8" tubing, tag sand TD @ 6838. Circ & clean out to 6890. Roll hole clean & SIWFN	
4/11/2002	Finish cleaning out hole to 6974. Roll hole clean. Pull tubing up hole. Land with 210 jts @ 6816' KB. Broach tubing. ND BOPs. RDMO completion rig. MIRU swab rig. Swab well, IFL 1200. FFL 3700. LR 45. SIWFN.	
4/12/2002	Swab well, IFL 2000. LR 72. FCP 350. FTP 40. FFL 400. (Well trying to flow after last several swab runs). SIWFN.	
4/13/2002	Gauged SI well pressures, ICP 1000 and ITP 1000. Flowed tubing, blew down. Swab well, IFL 2200. Made 4 runs, LR 43 bbls. Well kicked off, leave flow 1/2 hour to clean up. SI well, RDMO swab rig. Turn in well to sales.	

Mechanical Integrity Test, 9/10/2015 06:00

Job Category Completion/Workover	Primary Job Type Mechanical Integrity Test	Start Date 9/10/2015	End Date	Objective Test tubing, set RBP, test and chart casing, install production tubing.
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Daily Operations

Start Date	Summary	End Date
9/10/2015	STP 100 psi, SCP 500 psi, not on blow down through production equipment, SSCP 0 psi, MIRU Ensign 313, held safety meeting, RU rig and all equipment, pressure tested hard lines, blew well down to rig tank, control well w/60 bbls Claytreat/Biocide water, function tested BOP's, ND WH, NU BOP, unlanded tubing, PU tag jts, TIH w/ 4 jts, no tag @ 6,931.17', LD tag jts, POOH w/production tbg w/ derrick w/ 210 jts 2 3/8" J-55 EUE 8rd tbg, no subs, sn/nc, tbg was landed at 6,811.17' KB, SI and isolate well, shut and locked blind rams on BOP's, drained lines and pump, prepared for next day operations, SDFN	9/10/2015
9/11/2015	SCP 0 psi, SSCP 0 psi, held safety meeting, opened well to rig tank, held safety meeting, RU Pick Testers, PU STS bit and scraper dressed for 4 1/2" 11.6# casing, TIH w/production tbg testing to 6000 psi, all jts tested good, RD tester, RD circulation equipment, rolled hole clean, no communication up surface casing, no signs of holes, LD 4 jts, TOOH standing back w/ tubing to derrick, LD bit and scraper, PU STS's 4 1/2" WLTC RBP, TIH w/production tbg, set RBP at 6,797.07' KB and tools w/210 jts 10' out (30.93' above top of Codell formation), LD 1 jt, RU circulation equipment, broke circulation, rolled hole for 1 hour rolling out all oil and gas, pressure tested casing to 500 psi w/ rig pump, held for 15 mins, good test, released pressure. Si and isolated well, shut and locked pipe rams on BOP's, drained lines and pump, prepared for next days operations. Will wait until next day to pressure test with hydro-test truck and chart test for 15 mins. State has been notified of scheduled test. SDFN.	9/11/2015



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Daily Operations		
Start Date	Summary	End Date
9/14/2015	<p>SCP 0 psi, STP 0 psi, SSCP 0 psi, held safety meeting, open well to rig tank, MIRU Pick Testers, pressured casing to 500 psi, held and charted pressure for 15 mins, 3 psi pressure loss, good test, State Representative was not location to witness test, released pressure, PU 1 jts of tubing, latched onto RBP, released RBP, TOOH standing back to derrick, LD tools, PU NC/SN, TIH with production tubing, ND BOP, land tbg in WH 6,815.17' KB (12.83' above the Codell) w/210 jts 1-4' subs, NU WH, did not dropped new PCS full port standing valve and broached to seatnipple w/1.901" broach, RU swab equipment.</p> <p>ITP-0 psi ICP-0 psi IFL-1200' FFL-4800' Swabed back 38 bbls water FTP-blow FCP-50 psi Made 15 swab runs</p> <p>isolate well, drained lines and pump, racked pump and tank, RDMOL.</p> <p>Tbg detail: 7.0' adj KB 7.0' 210 jts 2 3/8" 4.7# J-55 EUE 8rd 6802.57' 6809.57' 1-4' 2 3/8" 4.7# J-55 EUE 8rd sub 4.00' 6813.57' Seatnipple/notched collar 1.60' 6815.17'</p>	9/14/2015



State of Colorado Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303) 894-2100 Fax: (303) 894-2109



FOR OGCC USE ONLY

MECHANICAL INTEGRITY TEST

Fill out Part II of this form if well tested is a permitted or pending injection well. Send original plus one copy.

1. Duration of the pressure test must be a minimum of 15 minutes.
2. A pressure chart must accompany this report if this test was not witnessed by a OGCC representative.
3. For production wells, test pressures must be at a minimum of 300 psig.
4. For injection wells, test pressures must be at 300 psig or minimum injection pressure, whichever is greater.
5. A minimum 300 psi differential pressure must be maintained between the tubing and tubing/casing annulus pressure.
6. Do not use this form if submitting under provisions of Rule 328.a. (1) B. or C.
7. OGCC notification must be provided prior to the test.
8. Packers or bridge plugs, etc., must be set within 250 feet of the perforated interval to be considered a valid test.

OGCC Operator Number: 69175

Name of Operator: PDC Energy Inc.

Address: 3801 Carson Ave.

City: Evans

State: CO

Zip: 80620

Contact Name and Telephone

Travis Yenne

No: 970-506-9272

Fax: 970-506-9276

API Number: 05-123-20703

Field Name: Wattenberg

Field Number:

Well Name: Bond

Number: 21-9

Location (QtrQtr, Sec, Twp, Rng, Meridian): NENW

9-5N-64W

Complete the
Attachment Checklist

Operator OGCC

Pressure Chart		
Cement Bond Log		
Tracer Survey		
Temperature Survey		

☒ SHUT-IN PRODUCTION WELL

☐ INJECTION WELL

Facility No.: _____

Part I Pressure Test

☐ 5-Year UIC Test

☒ Test to Maintain SITA Status

☐ Reset Packer

☐ Verification of Repairs

☐ Tubing/Packer Leak

☐ Casing Leak

☐ Other (Describe) _____

Describe Repairs: _____

NA - Not Applicable

Wellbore Data at Time Test

Injection/Producing Zone(s)

Code 11

Perforated Interval:

☐ NA

Open Hole Interval:

☐ NA

6828'-6838'

Casing Test

☐ NA

Use when perforations or open hole is isolated by bridge plug or cement plug
Bridge Plug or Cement Plug Depth

6797.07'

Tubing Casing/Annulus Test

☐ NA

Tubing Size:

2 3/8"

Tubing Depth:

6789.37'

Top Packer Depth:

n/a

Multiple Packers?

☐ YES

☒ NO

Test Data

Test Date

9/14/15

Well Status During Test

Shut In

Date of Last Approved MIT

Casing Pressure Before Test

0 psi

Initial Tubing Pressure

0 psi

Final Tubing Pressure

0 psi

Starting Casing Test Pressure

528 psi

Casing Pressure - 5 Min.

525 psi

Casing Pressure - 10 Min.

525 psi

Final Casing Test Pressure

525 psi

Pressure Loss or Gain During Test

3 Loss

Test Witnessed by State Representative?

☐ YES

☒ NO

OGCC Field Representative: _____

Part II Wellbore Channel Test

Complete only if well is or will be an injection well.

Indicate method used for cement integrity test, attach appropriate records, charts, or logs unless previously submitted.

☐ Tracer Survey

☐ CBL or Equivalent

☐ Temperature Survey

Run Date: _____

Run Date: _____

Run Date: _____

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Print Name: Chad Sailors

Signed: _____

Title: Workover Rig Supervisor

Date: 9/14/15

OGCC Approval: _____

Title: _____

Date: _____

Conditions of Approval, if any: _____

Pick Testers
Sterling,CO 80751

PDC Energy
Bond 21-9
API 05-123-20703

Cameron Mitchell
970-520-0279

Chad Sailors
MIT 500#
LOC NENW-9-5N-64W

Interval:

60 Seconds

DataPoint LogDate

LogTime

1-P PSI

0		8:29:15 AM	528
1		8:30:15 AM	528
2		8:31:15 AM	527
3		8:32:15 AM	526
4		8:33:15 AM	526
5		8:34:15 AM	525
6		8:35:15 AM	525
7		8:36:15 AM	525
8	9/14/2015	8:37:15 AM	525
9		8:38:15 AM	525
10		8:39:15 AM	525
11		8:40:15 AM	525
12		8:41:15 AM	525
13		8:42:15 AM	525
14		8:43:15 AM	525
15		8:44:15 AM	525

