



## Well History

Well Name: Tollgate 29-12

API 05123178510000	Surface Legal Location NWNNE 29 4N 66W	Field Name Wattenberg	State CO	Well Configuration Type Vertical
Ground Elevation (ft)	Original KB Elevation (ft)	KB-Ground Distance (ft)	Spud Date 2/5/1994 00:00	Rig Release Date
On Production Date				

### Job

#### Workover, 12/17/2001 00:00

Job Category Wellwork	Primary Job Type Workover	Start Date 12/17/2001	End Date	Objective Re-frac Codell
--------------------------	------------------------------	--------------------------	----------	-----------------------------

#### Daily Operations

Start Date	Summary	End Date
12/10/2001	Set anchors.	12/11/2001
12/16/2001	IP 130/130, blow well dwn to pit. Kill well w/25 bbls hot dwn tbg & 25 bbls hot dwn csg. MIRU Key rig 103. ND WH, RU to pull tbg, SDFN.	12/17/2001
12/17/2001	IP blow/blow. Blow well dwn, ND WH, NU BOP's. PU tag jts, tagged on 4th jt in w/15' out, LD tag jts. POOH w/tbg stndg back tallying. PU retrieving head & RBP. RIH to 7087.8' KB w/225 jts. Set plug, ND BOPs, NU WH. Load hole pumping dwn csg, 70 bbls to load. Pressure test csg to 5000# & held f/15 min, test good. ND WH, NU BOPs, rel plug. TOO H stndg back. LD RBP & retrieving head. RU ADI Wireline, PU 2-1/8 gun & RIH to perf fr/7259-74, 4 spf, 60 deg phasing, RD wireline, SI, SDFN.  Detail: POOH w/230 jts, SN & mule shoe landed @ 7249.34' KB.  NOTE: Wireline shows frac ring @ 7183'. Prior records on 2-10-94 show 3 different csg wts & x-over.	12/18/2001
12/18/2001	CP vac. RU H-S Testing, PU SN, NC & 5 new tested jts. RIH testing prod string to 6000#, tl 7 bad jts (5 crimped, 1 split & 1 hole) RD tester, ND BOPs. Land tbg @ 7220.04' KB w/229 jts w/2.70' blast jt on top. Flange up WH, NU frac valve, RDMO.  Tbg detail as ran: NC, SN, 229 jts (5 new on btm, 1 new on top), 2.70' blast jt landed @ 7220.04' KB.	12/19/2001
12/20/2001	MIRU Halliburton to frac Codell formation 235,380# 20/40 prop along w/132914 gals Phoenix 22# frac fluid. Avg rate 14.7 bpm, avg pressure 4587 psi, max pressure 4869 psi, max sand concentration 4 ppg. ISDP 3586 psi, TLTR 3165 bbls.  Flowback: started 10 min after SD on 16/64 choke. IP 3200/3200 psi. 1:00 p.m., 1875/1900, 78 bbls. 1:30, 1400/1450, 45 bbls. 2:00, 1000/1075, 36 bbls. 2:30, 700/800, 27 bbls. 4:00, 300/375, 57 bbls. 5:30, 50/150, 27 bbls. TI rcvrd 270 bbls, TLTR 2895 bbls.	12/21/2001
12/21/2001	7:00 a.m., 0/blow, 29 bbls. MIRU Action rig 9 to swab. IP 0/0, IFL 300'. Swabbed back 80 bbls, FFL 3700', blow/0, SI. TI rcvrd 379 bbls, TLTR 2786 bbls.	12/22/2001
12/22/2001	1:00 p.m., 1100/820. Opened well, did not flow. 0 bbls, 2786 TLTR.	12/23/2001
12/25/2001	MIRU Action rig 9 to swab. IP 800/950, IFL 2800', blow dwn. Made 6 runs, well kicked off flowing, let flow f/30 min. Put on 16/64 choke. FP 300/650, FFL 800', RDMO. Rcvrd 36 bbls, tl rcvrd 415 bbls, TLTR 2750 bbls.	12/26/2001

#### Workover, 1/14/2005 00:00

Job Category Wellwork	Primary Job Type Workover	Start Date 1/14/2005	End Date	Objective
--------------------------	------------------------------	-------------------------	----------	-----------

#### Daily Operations

Start Date	Summary	End Date
1/13/2005	MIRU Action. IP - 250/250, blew down, IFL - 3600'. Let unload turned to gas. SI FP - 150/200. FFL -6000'. RDMO Recovered 23 bbls.	1/14/2005

#### Facilities, 9/9/2005 00:00

Job Category Associated AFE Listing	Primary Job Type Facilities	Start Date 9/9/2005	End Date	Objective Flare stack installation
--	--------------------------------	------------------------	----------	---------------------------------------

#### Daily Operations

Start Date	Summary	End Date

#### EWO, 12/1/2005 00:00

Job Category Associated AFE Listing	Primary Job Type EWO	Start Date 12/1/2005	End Date	Objective Pull tubing, scan, replace as needed
--	-------------------------	-------------------------	----------	---

#### Daily Operations

Start Date	Summary	End Date

#### Workover, 12/10/2005 00:00

Job Category Wellwork	Primary Job Type Workover	Start Date 12/10/2005	End Date	Objective
--------------------------	------------------------------	--------------------------	----------	-----------

#### Daily Operations

Start Date	Summary	End Date
12/9/2005	MIRU Action rig #4, SDFN	12/10/2005
12/11/2005	MIRU B&J Hot Oil, kill well with 50 bbls 2 % KCL, 30 bbls down csg, 20 bbls down tbg hot, RD B&J Hot Oil, ND WH, NU BOP, RU H-S Testing, tag fill @ 7301' KB, POOH tallying and testing to 7000 psi with 229 jts 2 3/8" J-55 8rd EUE, SN, NC @ 7217' KB, found holes in 4 jts, RD H-S Testing, RIH with SN, NC, 230 jts 2 3/8" J-55 8 rd EUE, SIW, SDFN	12/12/2005



## Well History

Well Name: Tollgate 29-12

API 05123178510000	Surface Legal Location NWNE 29 4N 66W	Field Name Wattenberg	State CO	Well Configuration Type Vertical
Ground Elevation (ft)	Original KB Elevation (ft)	KB-Ground Distance (ft)	Spud Date 2/5/1994 00:00	Rig Release Date
			On Production Date	

### Daily Operations

Start Date	Summary	End Date
12/12/2005	ND BOP, NU WH, RU and broach tbg to SN, SIW, RDMO  Tbg detail : 10' KB  230 jts 2 3/8" J-55 8 rd EUE 7226.00' 7236.00' SN, NC 7227.33' 7237.33'	12/13/2005
12/13/2005	MIRU Action swab rig, made 1 run, SIW, SDFN	12/14/2005
12/14/2005	ITP blow/ ICP 0, IFL 7100', FFL 7100' well dry, FTP blow/ FCP 100 psi, recovered 30 bbls, SIW, RDMO	12/15/2005

### Mechanical Integrity Test, 8/21/2015 06:00

Job Category Completion/Workover	Primary Job Type Mechanical Integrity Test	Start Date 8/21/2015	End Date	Objective Test tubing, Set RBP, test and chart casing, reinstall production tubing.
-------------------------------------	---	-------------------------	----------	--

### Daily Operations

Start Date	Summary	End Date
8/21/2015	STP 400 psi, SCP 400 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/ 2 jts, tagged @ 7,302.39', LD tag jts, POOH w/production tbg to derrick w/ 230 jts 2 3/8" J-55 EUE 8rd tbg, no subs, sn/nc, tbg was landed at 7,237.39' KB, held safety meeting, RU Pick Testers, PU STS bit and scraper dressed for 4 1/2" 10.5# casing, TIH w/production tbg testing to 6000 psi, found 2 holes, 5 splits, all other jts tested good, RD tester, RD circulation equipment, rolled hole clean, no communication up surface casing, no signs of holes, LD 5 jts, TOOH standing back w/ 30 jts tubing to derrick, leaving 200 jts in hole @ 6,285.90', SI and isolate well, shut and locked pipe rams on BOP's, drained lines and pump, prepared for next day operations, SDFN	8/21/2015
8/24/2015	SCP 0 psi, STP 0 psi, SSCP 0 psi, held safety meeting, opened well to rig tank, control well w/20 bbls Claytreat/Biocide water, finished POOH w/200 jts of tbg to derrick, LD bit and scraper, PU STS's 4 1/2" WLTC RBP, TIH w/production tbg, set RBP at 7,215.97' KB and tools w/229 jts plus 1-10' sub (43.03' 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.	8/24/2015
8/25/2015	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, 4 psi pressure loss, good test, State Representative was 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 7,244.00' KB (15' above the Codell) w/230 jts no subs, NU WH, did not dropped new PCS full port standing valve and broached to seatnipple w/1.901" broach, RU swab equipment.  ITP-0 psi ICP-0 psi IFL-1200' FFL-4800' Swabed back 38 bbls water FTP-blow FCP-50 psi Made 15 swab runs  isolate well, drained lines and pump, racked pump and tank, RDMOL.  Tbg detail: 7.0' adj KB 7.0' 230 jts 2 3/8" 4.7# J-55 EUE 8rd 7235.40' 7242.40' Seatnipple/notched collar 1.60' 7244.00'	8/25/2015



# 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		Contact Name and Telephone	
Name of Operator: PDC Energy Inc.		Travis Yenne	
Address: 3801 Carson Ave.		No: 970-506-9272	
City: Evans State: CO Zip: 80620		Fax: 970-506-9276	
API Number: 05-123-17851		Field Name: Wattenberg	
Well Name: Tollgate		Field Number: _____	
Location (QtrQtr, Sec, Twp, Rng, Meridian): NWNE 4N-66W-29		Number: 29-12	

### 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 SI/TA Status

☐ Reset Packer

☐ Verification of Repairs

☐ Tubing/Packer Leak

☐ Casing Leak

☐ Other (Describe) \_\_\_\_\_

Describe Repairs: \_\_\_\_\_

NA - Not Applicable		Wellbore Data at Time Test		Casing Test <input type="checkbox"/> NA	
Injection/Producing Zone(s)		Perforated Interval: <input type="checkbox"/> NA		Use when perforations or open hole is isolated by bridge plug or cement plug	
Codell		7259' - 7274'		Bridge Plug or Cement Plug Depth	
				7215.97	
Tubing Casing/Annulus Test <input type="checkbox"/> NA					
Tubing Size:		Tubing Depth:		Top Packer Depth:	
2 3/8"		7208.47'		N/A	
				Multiple Packers? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
Test Data					
Test Date	Well Status During Test	Date of Last Approved MIT	Casing Pressure Before Test	Initial Tubing Pressure	Final Tubing Pressure
8/25/15	Shut In		0 psi	0 psi	0 psi
Starting Casing Test Pressure	Casing Pressure - 5 Min.	Casing Pressure - 10 Min.	Final Casing Test Pressure	Pressure Loss or Gain During Test	
523# psc	522# psc	519# psc	519# psc	-4# psc	
Test Witnessed by State Representative? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			OGCC Field Representative: <u>Pam Peterson</u>		

### 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 SAPIORI

Signed: [Signature]

Title: Workover Rig Supervisor

Date: 8/25/15

OGCC Approval: [Signature]

Title: Field Inspector

Date: 8/25/15

Conditions of Approval, if any:

FIR # 680700453

Form 42 Document # 400883146

**Pick Testers**  
**Sterling,CO 80751**

**Guy Dove**  
**970-520-2769**

Tollgate 29-12  
M.I.T. casing test

Chad Sailors  
PDCE

API# 05-123-17851  
NWNE 4N-66W-29

Interval: 60 Seconds

DataPoint	LogDate	LogTime	2-P PSI
1		8:12:44 AM	523
2		8:13:44 AM	522
3		8:14:44 AM	522
4		8:15:44 AM	522
5		8:16:44 AM	522
6		8:17:44 AM	522
7		8:18:44 AM	522
8	8/25/2015	8:19:44 AM	521
9		8:20:44 AM	521
10		8:21:44 AM	520
11		8:22:44 AM	520
12		8:23:44 AM	519
13		8:24:44 AM	519
14		8:25:44 AM	519
15		8:26:45 AM	519
16		8:27:45 AM	519

