



## Well History

Well Name: State Peterson 31-16

API 05123216770000	Surface Legal Location NWNE 16 5N 63W	Field Name Wattenberg	State CO	Well Configuration Type Vertical
Ground Elevation (ft) 4,700.00	Original KB Elevation (ft) 4,710.00	KB-Ground Distance (ft) 10.00	Spud Date 9/30/2003 00:00	Rig Release Date 10/4/2003 00:00
			On Production Date 10/29/2003	

### Job

#### Drilling - original, 9/30/2003 00:00

Job Category Drilling	Primary Job Type Drilling - original	Start Date 9/30/2003	End Date 10/4/2003	Objective Drill a Codell Well
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### Daily Operations

Start Date	Summary	End Date
9/30/2003	Caza Rig #1: MIRU. Drill rat and mouse holes and spud 12 1/4" hole at 12:30 PM. TD 12 1/4" hole at 5:45 PM at 374'. Condition mud and make a wiper trip and survey (1.5 degree at 374'). Trip out and ran 8 joints of new, 24#, J-55, 8 5/8" casing to 353'. Set at 363'. Rig up Cementer's Well Service at 10:00 PM and pumped 225 sacks of Class G cement + 3% CaCl2 + 1/4# flake per sack. Plug down at 11 PM. Wait on cement.	
10/1/2003	Caza Rig #1: Waiting on cement.	
10/2/2003	Caza Rig #1: At 2917' and drilling 7 7/8" hole.	
10/3/2003	Caza Rig #1: At 5732' and drilling 7 7/8" hole. Last survey: 2.75 degrees at 4448'.	
10/4/2003	Caza Rig #1: Drillers TD at 6983'. Condition hole and trip out and lay down drill string. MIRU PSI at 5 AM and ran Comp Density/Comp Neutron/Dual Induction finding LTD at 6923'KB. Rig down PSI at 7:30 AM and rig up casing crew. Ran a Topco auto fill guide shoe and 159jts. of 10.5#/ft, M-65, 4 1/2" casing and 1 joint of 11.6"/ft, N-80, on top of casing string. Casing set at 6909.31'KB. PBTD @ 6895.17'KB. Circulate hole for 45 minutes. RU Halliburton and pumped 12bbl mud flush and 10bbl ClayFix water. Mix and pump 6 BBLs (20sx) of 50/50 Poz Flag cement, 145 BBLs (200sx) HLC Type III plus additives, and 44 BBLs (150sx) of 50/50 Poz + additives. Released wiper plug and displaced with 112 BBLs treated water. Plug down ok @ 2:23 PM. ECT @ 3100'. Released rig at 3:30 PM.	

#### Initial Completion, 10/6/2003 00:00

Job Category Completion/Workover	Primary Job Type Initial Completion	Start Date 10/6/2003	End Date 12/1/2003	Objective Complete a Codell Well
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### Daily Operations

Start Date	Summary	End Date
10/6/2003	MIRU Nuex Wireline. Ran GR/CCL/VDL log finding a PBTD of 6869'KB and a CT at 2650'KB. Perforated the Codell from 6728'KB to 6736'KB with 24 - .34" diameter holes at 3 SPF with 120 degrees phasing (13.59" penetration). RDMO Nuex.	
10/9/2003	BJ Services rig: RU BJ Services. Frac Codell 6728 to 6734 with 2698bbls of Vistar 20 gel with 217,720lbs' of white 20/40 sand and 8000# of Super LC 20/40. Sand stages of 1#, 2#, 3#, 4# with Avg treating press of 3314# at 16.3 bpm. ISDP 3255#. Well on flowback on 20/64 choke at 2900#.	
11/25/2003	DJR Well Service: MIRU completion rig. Kill well with 40 2% KCL. NU BOP. Ran 150 joints. Well kicked off. Roll hole with KCL fluid. RIH with tubing and tag with 203 1/2 joints @ 6,680'. Circulate and clean out to 6,869'. Roll hole clean for 1 hour. Lay down 5 joints and land with 204 joints + (1) 8' & (1) 6' sub @ 6,720'. ND BOP. Broach to SN. Drop and chase SV to bottom. Shut well in for the night.	
11/26/2003	DJR Well Service: RDMO completion rig.	
11/28/2003	DJR Swab Rig: MIRU. Swab well. IFL 800'. LR 63 bbls. FFL 3,800'. (Cutting 20% oil) Shut in well for weekend.	
12/1/2003	DJR Swab Rig: Check well pressure. ICP 800 & ITP 1,150. Ran well to sales thru separator for 20 minutes. CP 500# and TP 120#. By-pass well to tank. Recovered 7 bbls. Tubing quit flowing. Swab well. Made 8 runs (LR 35 bbls) Kick off tubing string. Flowed well thru 18/64 choke 2 1/2 hours. Recovered 63 bbls. FCP 650. FTP 300. SI well. RDMO swab rig.	

#### Mechanical Integrity Test, 8/10/2015 06:00

Job Category Completion/Workover	Primary Job Type Mechanical Integrity Test	Start Date 8/10/2015	End Date	Objective Test Tubing, Set RBP, Test and Chart Casing, Reinstall production tubing
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### Daily Operations

Start Date	Summary	End Date
8/10/2015	STP 120 psi, SCP 150 psi, not on blow down through production equipment, SSCP 0 psi, MIRU Ensugn 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, tagged @ 6,816.84', LD tag jts, POOH w/production tbg to derrick w/ 204 jts 2 3/8" J-55 EUE 8rd tbg, 1-6' and 1-8' subs, sn/nc, tbg was landed at 6,714.99' 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, all jts tested good, RD tester, RD circulation equipment, rolled hole clean, no communication up surface casing, no signs of holes, TOOHS standing back w/ 30 jts tubing to derrick, leaving 174 jts in hole @ 5705.65', SI and isolate well, shut and locked pipe rams on BOP's, drained lines and pump, prepared for next day operations, SDFN.	8/10/2015
8/11/2015	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/174 jts of tbg to derrick, LD bit and scraper, PU STS's 4 1/2" WLTC RBP, TIH w/production tbg, set RBP at 6,696.89' KB and tools w/204 jts (31.11' 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.	8/11/2015



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### Daily Operations

Start Date	Summary	End Date
8/12/2015	<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, 4 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 6,714.99' KB (13.01' above the Codell) w/204 jts plus 1-6' and 1-8' 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-4300' Swabed back 40 bbls water FTP-blow                      FCP-50 psi Made 13 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' 204 jts 2 3/8" 4.7# J-55 EUE 8rd                      6692.39'                      6699.39' 1-6' 2 3/8" J" 4.7# J-55 EUE 8rd sub                      6.0'                      6705.39' 1-8' 2 3/8" J" 4.7# J-55 EUE 8rd sub                      8.0'                      6713.39' Seatnipple/notched collar                      1.60'                      6714.99'</p>	8/12/2015



# 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 326 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: 05-123-21677

Field Name: Wattenberg

Field Number:

Well Name: State Peterson

Number: 31-16

Location (Qtr, Sec, Twp, Rng, Meridian): NWNE 16-5N-63W

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		6728'-6736'		Bridge Plug or Cement Plug Depth	
				6696.89'	
Tubing Casing/Annulus Test <input type="checkbox"/> NA					
Tubing Size:		Tubing Depth:		Top Packer Depth:	
2 3/8"		6689.39'		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
8/10/15	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	
505 psi	501 psi	501 psi	501 psi	4 psi / 10.55	
Test Witnessed by State Representative?			OGCC Field Representative:		
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO					

### 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: [Signature]

Title: Workover Rg Supervisor

Date: 8/10/15

OGCC Approval:

Title:

Date:

Conditions of Approval, if any:

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

**Shawn Fiscus**  
**970-520-5697**

PDC Energy

Chad Sailors

MIT

ST Peterson 31-16  
 NW NE Sec16-T5N-R63W

Interval:

60 Seconds

DataPoint LogDate

LogTime

2-P PSI

0		7:59:09 AM	505
1		8:00:10 AM	504
2		8:01:10 AM	503
3		8:02:10 AM	502
4		8:03:10 AM	502
5		8:04:10 AM	501
6		8:05:10 AM	501
7	8/12/2015	8:06:10 AM	501
8		8:07:10 AM	501
9		8:08:10 AM	501
10		8:09:10 AM	501
11		8:10:10 AM	501
12		8:11:10 AM	501
13		8:12:10 AM	501
14		8:13:10 AM	501
15		8:14:10 AM	501

