



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: 05-123-20517

Field Name:

Field Number: 90750

Well Name: Wacker

Number: 32-10

Location (QtrQtr, Sec, Twp, Rng, Meridian): SW/NE Sec. 10 T5N R64W

Complete the Attachment Checklist

	OGCC	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

Injection/Producing Zone(s)

Code 11

Perforated Interval:

☐ NA

Open Hole Interval: ☒ NA

6774'-6784'

Casing Test

☐ NA

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

RBP set @ 6725.20' KB

Tubing Casing/Annulus Test

☐ NA

Tubing Size:

2 3/8"

Tubing Depth:

6720'

Top Packer Depth:

Multiple Packers?

☐ YES

☒ NO

Test Data

Test Date

10-26-15

Well Status During Test

SI

Date of Last Approved MIT

Not Available

Casing Pressure Before Test

0

Initial Tubing Pressure

0

Final Tubing Pressure

0

Starting Casing Test Pressure

537

Casing Pressure - 5 Min.

534

Casing Pressure - 10 Min.

533

Final Casing Test Pressure

533

Pressure Loss or Gain During Test

Lost 4 psi

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

Run Date: _____

☐ CBL or Equivalent

Run Date: _____

☐ Temperature Survey

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: _____

Bud Holman

Signed: _____

Bud H

Title: _____

Date: 10-26-15

OGCC Approval: _____

Title: _____

Date: _____

Conditions of Approval, if any: _____

Pick Testers
Sterling, CO 80751

Shawn Fiscus
970-520-5697

PDC Energy

Bud Holman

MIT
 SW NE SEC 10-5N-64W

Wacker 32-10
 API 05-123-20517

Interval:

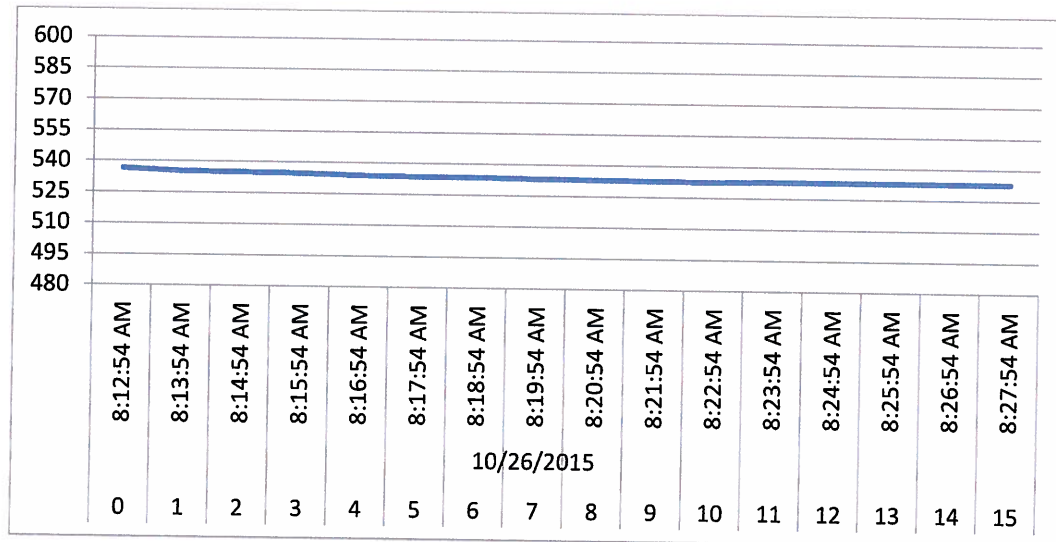
60 Seconds

DataPoint LogDate

LogTime

2-P PSI

0		8:12:54 AM	537
1		8:13:54 AM	535
2		8:14:54 AM	535
3		8:15:54 AM	535
4		8:16:54 AM	534
5		8:17:54 AM	534
6		8:18:54 AM	534
7	10/26/2015	8:19:54 AM	533
8		8:20:54 AM	533
9		8:21:54 AM	533
10		8:22:54 AM	533
11		8:23:54 AM	533
12		8:24:54 AM	533
13		8:25:54 AM	533
14		8:26:54 AM	533
15		8:27:54 AM	533





Well History

Well Name: Wacker 32-10

API 05123205170000	Surface Legal Location SWNE 10 5N 64W	Field Name Wattenberg	State CO	Well Configuration Type Vertical
Ground Elevation (ft) 4,610.00	Original KB Elevation (ft) 4,620.00	KB-Ground Distance (ft) 10.00	Spud Date 12/1/2001 00:00	Rig Release Date 12/6/2001 00:00
			On Production Date 1/11/2002	

Job

Drilling - original, 12/1/2001 00:00

Job Category Drilling	Primary Job Type Drilling - original	Start Date 12/1/2001	End Date 12/6/2001	Objective Drill a Codell Well
--------------------------	---	-------------------------	-----------------------	----------------------------------

Daily Operations

Start Date	Summary	End Date
12/1/2001	Mid Continent Rig #1: MIRU and SPUD. TD 12 1/4" hole @380. Ran 9 joints of new 24# 8 5/8" casing Set @ 376.	
12/2/2001	Cementers cemented w/265 sacks Plug Down @1:30.	
12/3/2001	At 1130' and drilling 7 7/8" hole.	
12/4/2001	Mid Continent Rig #1: At 3950' and drilling 7 7/8" hole.	
12/5/2001	Mid Continent Rig #1: At 5988' and drilling 7 7/8" hole.	
12/6/2001	MCE Rig #1: TD 7 7/8" hole @ 7000' KB. MIRU PSI and ran Comp Density/Comp Neutron/Dual Induction. LTD @ 7009' KB. RU casing crew and ran Topco Auto Fill II guide shoe, 14' shoe joint, 163 joints of 10.5 #/ft, M-65, 4 1/2" casing and 1 joint of 11.6 #/ft, N-80 on top string. Casing set @ 6981' KB. Latch down insert @ 6967' KB. MIRU Halliburton. Pumped 10 bbl pre flush, 10 bbl mud flush, 6 bbl Premium G (20 sx), 173 bbl HLC III + additives (240 sx) and 45 bbl Premium G + additives (150 sx). Released wiper plug and displaced with 111 bbl treated water. Plug down OK @ 4:00 pm. ECT @ 3000'. Released rig @ 5:00 pm.	

Initial Completion, 12/11/2001 00:00

Job Category Completion/Workover	Primary Job Type Initial Completion	Start Date 12/11/2001	End Date 3/12/2002	Objective Complete a Codelle Well
-------------------------------------	--	--------------------------	-----------------------	--------------------------------------

Daily Operations

Start Date	Summary	End Date
12/11/2001	MIRU Nuex. Ran GRVDL/CBL. PBTD @ 6961' KB. CT @ 3270' KB. Perforated the Codell from 6774' to 6784' KB with 30, .34 diameter holes, 3 spf, 120 deg phasing. RDMO	
12/13/2001	MIRU BJ Services. Frac'd the Codell with 100000# 20/40 white sand and 2062 bbl Vistar 20# fluid system. During 3 lb stage, BJ's blender went down and the well was flushed to perfs. ATP - 3600 psig; AIR - 16 bpm; 3 ppa sand; ISIP - 3519. RDMO BJ. Open well to tank with 3450 psig on a 12/64 choke. Flowed over night. 500 psig @ 7:00 am 12/14/01	
12/14/2001	MIRU BJ Services to finish frac. Pumped 174131# of 20/40 white sand, 8000# 20/40 Tempered DC sand and 1872 bbl Vistar 20# fluid system. ATP - 3681 psig; AIR - 14.5 bpm; 4 ppa sand; ISIP - 3474 psig; Flushed with 107 bbl. Open well to tank with 3600 psig on a 12/64 choke. RDMO BJ	
3/8/2002	MIRU completion rig. SD operations due to high winds.	
3/9/2002	RU circ pump & kill well with 50 bbls of KCL. NU BOPs and RIH with 2 3/8" tubing. Ran 205 jts & tag sand fill @ 6707. Circ & clean out hole to 6981. Roll hole clean & lay down 8 jts. SIWFWF.	
3/11/2002	Landed tubing with (1) 10' sub, (1) 6' sub and 206 jts @ 6767 KB. ND BOPs and NU wellhead. Swab well. LR 75. Kicked off flowing - flowed 1/2 hour & SIWFN.	
3/12/2002	RDMO completion rig	
1/20/2003	MIRU. Gauged well pressures, 200/800. Blow down well, all gas. Swab well. FL @ 2200'. Plunger surfaced 35 minutes after swab. Rec. plunger (worn PCS pad). Let well unload, 425/425. Drop oversized plunger. Let plunger fall 45 minutes, 575/680. Cycle plunger to tank. Plunger arrived in 6 minutes, 200/600. Let well clean up. Drop plunger, 500/500. Check well after 45 minutes, 525/700. Put well down line. RDMO.	

Mechanical Integrity Test, 10/22/2015 10:00

Job Category Completion/Workover	Primary Job Type Mechanical Integrity Test	Start Date 10/22/2015	End Date	Objective Test tbng and casing. Perform MIT
-------------------------------------	---	--------------------------	----------	--

Daily Operations

Start Date	Summary	End Date
10/22/2015	ITP: 550 ICP: 700 ISCP: 0 MIRU Ensign rig 313. ATP had to CAT in rig and equipment. Held pre-job safety meeting. Rigged up pump and tank. Tested lines to 2000 psi. Blew well down to rig tank. Controlled well with 60 bbls of Claytreat/Biocide water. ND wellhead. Function tested and NU BOPs. PU 4 tag jnts (126") and RIH without tagging. LD tag jnts. POOH with 1-6' x 2-3/8" sub, 1-10' x 2-3/8" sub, 206 jnts of 2-3/8" 4.7# J-55 8rd eue tbng, SN/NC. Secured well. SDFD	10/22/2015
10/23/2015	TP: 0 CP: 0 SCP: 0 Held safety meeting. MIRU Pick Testers. PU 3-7/8" blade bit and STS 4-1/2" 10.5# casing scraper and tested in hole to 6000 psi with 206 jnts of 2-3/8" 4.7# J-55 8rd eue tbng, 1-10' x 2-3/8" sub and 1-6' x 2-3/8" sub to 6776.35' kb. All jnts tested good. RDMO testers. Rolled gas and oil out of hole. POOH standing back. LD bit and scraper. PU STS 4-1/2" 10.5# WLTC RBP and RIH with 205 jnts. Set RBP at 6725.20' kb. Rolled hole clean. Tested casing to 550 psi with rig pump for 15 minutes. Held good. Bled off pressure. Rolled hole for 1 hour. Secured well. SDFD	10/23/2015



Well History

Well Name: Wacker 32-10

API 05123205170000	Surface Legal Location SWNE 10 5N 64W			Field Name Wattenberg	State CO	Well Configuration Type Vertical
Ground Elevation (ft) 4,610.00	Original KB Elevation (ft) 4,620.00	KB-Ground Distance (ft) 10.00	Spud Date 12/1/2001 00:00	Rig Release Date 12/6/2001 00:00	On Production Date 1/11/2002	

Daily Operations

Start Date	Summary	End Date						
10/26/2015	<p>TP 0 psi, CP 0 psi, SCP 0 psi, Held safety meeting, opened well to rig tank, MIRU Pick Testers, pressured casing to 537 psi, held and charted pressure for 15 mins, 4 psi pressure loss, Good test, RDMO hydrotester. State Representative was not location to witness test. Released pressure, Released RBP, TOOH standing back to derrick, LD tools, PU NC/SN, TIH with production tubing, ND BOP. Changed out wellhead to 3K mandrel type. Land tbg in WH 6760.35' KB (13.65' above the Codell) w/206 jts, NU WH, Did not drop new PCS full port standing valve. Broached to seatnipple w/1.901" broach, RU swab equipment. Swabbed well.</p> <p>ITP-0 psi ICP-0 psi IFL- 1800' FFL-5500'</p> <p>Swabbed back 60 bbls water</p> <p>FTP-0 FCP-0</p> <p>Secured well, drained lines and pump, racked pump and tank, RDMO</p> <p>Tbg detail:</p> <table><tr><td>206 jnts 2-3/8" 4.7# J-55 8rd eue tbrg</td><td>10' KB 6748.75'</td><td>10.00' 6758.75'</td></tr><tr><td>Seat Nipple/Notched collar</td><td>1.6'</td><td>6760.35' KB</td></tr></table>	206 jnts 2-3/8" 4.7# J-55 8rd eue tbrg	10' KB 6748.75'	10.00' 6758.75'	Seat Nipple/Notched collar	1.6'	6760.35' KB	10/26/2015
206 jnts 2-3/8" 4.7# J-55 8rd eue tbrg	10' KB 6748.75'	10.00' 6758.75'						
Seat Nipple/Notched collar	1.6'	6760.35' KB						