



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.

Complete the Attachment Checklist

	OGCC	OGCC
Pressure Chart		
Cement Bond Log		
Tracer Survey		
Temperature Survey		

OGCC Operator Number: 69175	Contact Name and Telephone Travis Yenne
Name of Operator: PDC Energy Inc.	No: 970-506-9272
Address: 3801 Carson Ave.	Fax: 970-506-9276
City: Evans State: CO Zip: 80620	
API Number: 05-123-12058 Field Name: Greeley Field Number: 32760	
Well Name: Harvest Number: 1	
Location (QtrQtr, Sec, Twp, Rng, Meridian): SE/NE Sec. 32 T6N R 65W 6 PM	

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	Casing Test <input type="checkbox"/> NA Use when perforations or open hole is isolated by bridge plug or cement plug Bridge Plug or Cement Plug Depth Retrievable Bridge Plug 6700, 85' KB
Injection/Producing Zone(s) Niobrara Codell	Perforated Interval: <input type="checkbox"/> NA 6750'-6964' 7069'-7079'	Open Hole Interval: <input checked="" type="checkbox"/> NA

Tubing Casing/Annulus Test <input type="checkbox"/> NA			
Tubing Size: 2 3/8"	Tubing Depth: 6668'	Top Packer Depth: N/A	Multiple Packers? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

Test Data						
Test Date 3-8-16	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 522	Casing Pressure - 5 Min. 515	Casing Pressure - 10 Min. 515	Final Casing Test Pressure 515	Pressure Loss or Gain During Test 7 Psi 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.

<input type="checkbox"/> Tracer Survey Run Date: _____	<input type="checkbox"/> CBL or Equivalent Run Date: _____	<input type="checkbox"/> Temperature Survey Run Date: _____
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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: [Signature] Title: _____ Date: 3-8-16

OGCC Approval: _____ Title: _____ Date: _____

Conditions of Approval, if any: _____



Daily Completion Operations

Date: 3/8/2016
Report #: 3.0

Well Name: Harvest 1

Well Name Harvest 1	Operator PDC Energy Inc.	API 05123120580000	Well Number 105.902302	Last Mod By BHolman	
District Evans	Field Name Wattenberg	County Weld	State CO		
Well Type Development	Surface Legal Location SENE 32 6N 65W	Spud Date 10/31/1984	Original KB Elevation (ft) 4,695.00	Ground Elevation (ft) 4,682.00	KB-Ground Distance (ft) 13.00

Daily Operation: 3/8/2016 06:00 - 3/8/2016 17:00

AFE Number WO000642	Job Category Completion/Workover	Objective PERFORM MIT, TESTING CASING AND TBNG, RETURN TO PRODUCTION	Start Date 3/4/2016	End Date	Primary Job Type Mechanical Integrity Test	Secondary Job Type
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Rigs

Contractor Ensign	Rig Number 313
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Daily Operations

Report Start Date 3/8/2016	Report End Date 3/8/2016	Daily Field Est Total (Cost) 7,006.25	Cum Field Est To Date (Cost) 18,955.93
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Status at Reporting Time

Operations Summary

TP: 0 PSI CP: 0 PSI HELD SAFETY MEETING.
MIRU PICK TESTERS. PRESSURED CASING TO 522 PSI. TESTED AND CHARTED FOR 15 MINUTES. PRESSURE TO 515 PSI AFTER 15 MINUTES. NO COGCC REPRESENTATIVE PRESENT TO WITNESS TEST. BLED OFF PRESSURE. RDMO TESTER. PU 4 JNTS, LATCHED ONTO RBP AND RELEASED. POOH TO DERRICK AND LD RBP. RIH WITH NC/SN, 217 JNTS OF 2-3/8" 4.7# J-55 8RD EUE TBNG, 2 - 10' X 2-3/8" SUBS AND 1 - 4' X 2-3/8" SUB. BROACHED TBNG TO SN WITH 1.901" BROACH. ND BOPS. LANDED TBNG AT 7053.55' KB. (14.45' ABOVE TOP CODELL PERF). NU WELLHEAD. SWABBED 20 BBLS OF WATER TO RIG TANK. IFL: 2500' FFL: 4200'. SECURED WELL. SDFD

TBNG DETAILS;

	13' KB	13.00'
4' X 2-3/8" SUB	4.00'	17.00'
10' X 2-3/8" SUB	10.00'	27.00'
10' X 2-3/8" SUB	10.00'	37.00'
217 JNTS 2-3/8" 4.7# J-55 8RD EUE TBNG	7014.95'	7051.95'
SN/NC	1.60'	7053.55'

Operations Next Report Period

Weather	Temperature (*F)	Hole Condition	Road Condition
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Time Log

Start Time	End Time	Dur (hr)	Cum Dur (hr)	Code	Code Des	Com
06:00	06:30	0.50	0.50	TRAV	Travel - To Location	
06:30	06:45	0.25	0.75	SMTG	Safety Meeting	
06:45	08:15	1.50	2.25	PTST	Pressure Test	PERFORMED MIT TESTING TO 522 PSI. GOOD TEST
08:15	10:15	2.00	4.25	PULT	Pull Tubing	RELEASED RBP AND POOH
10:15	12:15	2.00	6.25	RUTB	Run Tubing	RAN PRODUCTION STRING
12:15	13:45	1.50	7.75	GOP	General Operations	BROACHED TBNG TO SN
13:45	14:15	0.50	8.25	BOPR	Remove BOP's	ND BOPS, LAND TBNG AT 7053.55' KB. NU WELLHEAD
14:15	16:15	2.00	10.25	SWAB	Swab Well Down	SWABBED 20 BBLS OF WATER TO RIG TANK
16:15	16:30	0.25	10.50	LOCL	Lock Wellhead & Secure	SECURED WELL. SDFD
16:30	17:00	0.50	11.00	TRAV	Travel - From Location	



Well History

Well Name: Harvest 1

API 05123120580000	Surface Legal Location SENE 32 6N 65W	Field Name Wattenberg	State CO	Well Configuration Type Vertical
Ground Elevation (ft) 4,682.00	Original KB Elevation (ft) 4,695.00	KB-Ground Distance (ft) 13.00	Spud Date 10/31/1984 00:00	Rig Release Date 11/6/1984 00:00
			On Production Date 1/16/1985	

Job

Drilling - original, 10/31/1984 00:00

Job Category Drilling	Primary Job Type Drilling - original	Start Date 10/31/1984	End Date 11/6/1984	Objective Drill a new Nio/Codell Well
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Daily Operations

Start Date	Summary	End Date

Initial Completion, 11/1/1984 00:00

Job Category Completion/Workover	Primary Job Type Initial Completion	Start Date 11/1/1984	End Date 1/16/1984	Objective Complete a new Nio/Codell Well
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Daily Operations

Start Date	Summary	End Date

Recompletion, 3/29/2000 00:00

Job Category Completion/Workover	Primary Job Type Recompletion	Start Date 3/29/2000	End Date	Objective Refrac Codell
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Daily Operations

Start Date	Summary	End Date

Completion, 9/13/2006 00:00

Job Category Completion/Workover	Primary Job Type Completion	Start Date 9/13/2006	End Date	Objective NB Add pay Complete Niobrara
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Daily Operations

Start Date	Summary	End Date
9/12/2006	MIRU ecws , ru pumps and lines, blow down well, nd wh,nu bop,lower tbg 93 ft to tag, ru ju head, clean out 45' , lay down 6 jts and sdfn.	9/13/2006
9/13/2006	open well, no psi, poh with 217 jts/7034, (cleaned out to 7180 kb) ru nuex to set plug @ 7050 , ru hot oiler to test plug to 5000. same held fine for 15 min. Had to cut off well head, and weld on bell nipple, because existing well head was welded on.sdfn	9/14/2006
9/14/2006	open well , no psi, ru nuex to perf nio @ 6750-62, 6880-6900,6956-6964. rd nuex, nu bop, rih to 7004 wi tbg and swabb down to 5600, sdfn.	9/15/2006
9/15/2006	open well no psi, lay down 216 jts 2 3/8 tbg, and rd.	9/16/2006
9/16/2006	clean location, rd pumps and lines, mo.	9/17/2006
9/17/2006	miru haliburton to frac niobrara(6750-62,6880-6900,6956-64, 4spf), frac well as per recommendation, test lines, start acid, and displace w FR ,loaded well and formation broke @3624 and 5.3 bpm,pump 100 bbls and sd, isip 3506, 5 min 3379, resume fr pad, start x-link stage, pump 1#@46bpm,and 4651 psi, 1# on @4572,start 2# @46.2 bpm @4541 psi, 2# on @ 46 bpm @4420,increase rate to 50.5 bpm, start 3#@50.5 bpm and 4643 psi,3# on @4572,continue 3#@50.5 and 4594, start 4#@50.5 and 4594, 4# on @4548 , continue 4# @50.5 bpm and 4550, start 4 # sb excel @50.5 and 4442 sb on @ 4351, start flush @50.5 bpm and 4351, pump 104 bbls flush, avg rate was47.5 bpm, avg psi 4389,, max psi-4667, max rate 50.6, isip 3652, 5 min 3594, ifg=.952, ffg=.974, pumped total of 238,000 # 30/50 and 12,000 12/20 sb excel,total load to recover 4406. opened well on 20/64 ck immediately to flow back tank. In 12 hrs well flowed 1000 bbls on 20/64 w/ftp @600 psi and 6 bbls /hr	9/18/2006
9/26/2006	miru , spot pump and tank, ru lines, blow well down kill well w/60 bbls kcl water, nu bop, rih w 113 jts ,well started flowing, kill well, finish rih to 6933(215 jts) tag fill, ld 7 jts swifn.	9/27/2006
9/27/2006	open well and circulate gas out,rih tag fill and c/o to 7034 puh to 6743 and land tbg w NC,SN and 208 jts,ND BOP ,NU WH, RU swabb and broach tbg and start swabbing.sdfn.	9/28/2006
9/28/2006	check pressures 1820/1580, open well to flow back tank, rd pump and tank clean location, RDMO. Tubing landed w NC,SN, &208 jts 2 3/8 tbg 6743 kb	9/29/2006

Supplemental, 1/31/2007 00:00

Job Category Associated AFE Listing	Primary Job Type Supplemental	Start Date 1/31/2007	End Date	Objective
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Daily Operations

Start Date	Summary	End Date

Conversion, 4/7/2008 00:00

Job Category Wellwork	Primary Job Type Conversion	Start Date 4/7/2008	End Date	Objective KO CIBP, commingle Niobrara & Codell
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Start Date	Summary	End Date



Well History

Well Name: Harvest 1

API 05123120580000	Surface Legal Location SENE 32 6N 65W	Field Name Wattenberg	State CO	Well Configuration Type Vertical
Ground Elevation (ft) 4,682.00	Original KB Elevation (ft) 4,695.00	KB-Ground Distance (ft) 13.00	Spud Date 10/31/1984 00:00	Rig Release Date 11/6/1984 00:00
On Production Date 1/16/1985				

Daily Operations

Start Date	Summary	End Date
4/6/2008	MI, RUPU & equip. WTP=50#, WCP=50#, bled down & kill well w/ 30 bbls 2% KCL. ND the WH, NU x-over flange & the BOPs. TOH w/ prod tbg tallying & laid down prod equip. Secured the well, drained the hard lines & SDON.	4/7/2008
4/7/2008	SIP=0#, make up scraper w/ bit & TIH w/ tbg. Tag TOC w/ 217-jts @ 7025' MD, NU J-U head & RU the power swivel. Load the hole, drill out cmt & CIBP. RIH w/ tbg to PBT @ 7180' MD, rolled the hole clean & RD the PS. ND the J-U head, TOH w/ tbg & laid down the B&S. Secured the well, drained the hard lines & SDON.	4/8/2008
4/8/2008	SIP=0#, RU H-S Testing & make up prod equip. TIH w/ tbg hydro testing to 7k, RD H-S & land prod tbg as follows= 2 3/8" API SN w/ notched collar (SN @ 7064' MD) & 218-jts 2 3/8" 4.7# J-55 tbg to surface. Broach tbg, ND BOPs & NU the WH. Secure the well, RDPU & MO equip. MI, RUSU & start swabbing w/ IFL @ 5000'. Made a total of 5 swab run, recovered 18 bbls & EFL @ 6200'. Secured the well & SDON.	4/9/2008
4/9/2008	SITP=0#, SICP=100#, start swabbing w/ IFL @ 5200' & made 4 swab runs (FL @ 6400'). Shut well in for an hr, made a run & pulled 900' of fluid. Made 2 more swab runs & shut well for aother hr. Made a run & pulled 700' of fluid. Made 2 more swab runs & secured the well. Made a total of 9 swab runs, recovered 20 bbls & EFL @ 6400'. ETP=20#, ECP=200#, SDON.	4/10/2008
4/10/2008	SITP=250#, SICP=450#. Start swabbing w/ IFL @ 5000', made 2 swab runs (FL 2nd run @ 1400') plunger came up. Dropped the plunger, shut well in for 1 hr & the plunger came up. Made a total of 2 swab runs, recovered 8 bbls & ETP=170#, ECP=270#. Secured the well, RD & MOSU. Return well to production. FINAL REPORT	4/11/2008

Mechanical Integrity Test, 3/4/2016 10:00

Job Category Completion/Workover	Primary Job Type Mechanical Integrity Test	Start Date 3/4/2016	End Date	Objective PERFORM MIT, TESTING CASING AND TBNG, RETURN TO PRODUCTION
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Daily Operations

Start Date	Summary	End Date																		
3/4/2016	MIRU ENSIGN RIG 313. ITP: 700 PSI ICP: 700 PSI ISCP: 0 PSI RIGGED UP PUMP AND LINES. TESTED LINES TO 2000 PSI. CONTROLLED WELL WITH 60 BBLs CLAYTREAT/BIOCIDE WATER. ND WELLHEAD. FUNCTION TESTED AND NU BOPS. PU 4 TAG JNTS AND TAGGED FILL WITH 111'. LD TAG JNTS. TALLY OUT OF HOLE TO DERRICK WITH 120 JNTS OF 2-3/8" TBNG. SECURED WELL. SDFD	3/4/2016																		
3/7/2016	TP: 150 PSI CP: 150 PSI HELD SAFETY MEETING. BLEW WELL DOWN TO RIG TANK. CONTROLLED WELL WITH 30 BBLs OF CLAYTREAT/BIOCIDE WATER. CONTINUED TO TALLY OUT OF HOLE TO DERRICK WITH TOTAL OF 218 JNTS OF 2-3/8" 4.7# J-55 8RD EUE TBNG, SN/NC. MIRU PICK TESTERS. PU 3-7/8" BLADE BIT AND STS 4-1/2" 11.6# CASING SCRAPER AND TESTED IN HOLE TO 6000 PSI WITH 218 JNTS. FOUND AND FIXED 3 CRIMPED JOINTS AND LAY DOWN 1 BAD JOINT. RDMO TESTER. TAG WAS AT 7170.05' KB (92.05' OF RAT HOLE) ROLLED GAS AND OIL OUT OF HOLE. POOH AND LD BIT AND SCRAPER. PU STS 4-1/2" 11.6# RBP AND RIH WITH 207 JNTS. SET RBP AT 6700.85' KB. LD 1 JNT. ROLLED HOLE CLEAN. TESTED CASING TO 525 PSI FOR 15 MINUTES WITH RIG PUMP. HELD GOOD. BLEW OFF PRESSURE. LD 3 JNTS. SECURED WELL. SDFD	3/7/2016																		
3/8/2016	TP: 0 PSI CP: 0 PSI HELD SAFETY MEETING. MIRU PICK TESTERS. PRESSURED CASING TO 522 PSI. TESTED AND CHARTED FOR 15 MINUTES. PRESSURE TO 515 PSI AFTER 15 MINUTES. NO COGCC REPRESENTATIVE PRESENT TO WITNESS TEST. BLEW OFF PRESSURE. RDMO TESTER. PU 4 JNTS, LATCHED ONTO RBP AND RELEASED. POOH TO DERRICK AND LD RBP. RIH WITH NC/SN, 217 JNTS OF 2-3/8" 4.7# J-55 8RD EUE TBNG, 2 - 10' X 2-3/8" SUBS AND 1 - 4' X 2-3/8" SUB. BROACHED TBNG TO SN WITH 1.901" BROACH. ND BOPS. LANDED TBNG AT 7053.55' KB. (14.45' ABOVE TOP CODELL PERF). NU WELLHEAD. SWABBED 20 BBLs OF WATER TO RIG TANK. IFL: 2500' FFL: 4200'. SECURED WELL. SDFD TBNG DETAILS: <table style="margin-left: 40px;"> <tr> <td></td> <td>13' KB</td> <td>13.00'</td> </tr> <tr> <td>4' X 2-3/8" SUB</td> <td>4.00'</td> <td>17.00'</td> </tr> <tr> <td>10' X 2-3/8" SUB</td> <td>10.00'</td> <td>27.00'</td> </tr> <tr> <td>10' X 2-3/8" SUB</td> <td>10.00'</td> <td>37.00'</td> </tr> <tr> <td>217 JNTS 2-3/8" 4.7# J-55 8RD EUE TBNG</td> <td>7014.95'</td> <td>7051.95'</td> </tr> <tr> <td>SN/NC</td> <td>1.60'</td> <td>7053.55'</td> </tr> </table>		13' KB	13.00'	4' X 2-3/8" SUB	4.00'	17.00'	10' X 2-3/8" SUB	10.00'	27.00'	10' X 2-3/8" SUB	10.00'	37.00'	217 JNTS 2-3/8" 4.7# J-55 8RD EUE TBNG	7014.95'	7051.95'	SN/NC	1.60'	7053.55'	3/8/2016
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