



Well History

Well Name: Grady Dyer 14-5

API 0512321960000		Surface Legal Location SWSW 5 6N 64W			Field Name Wattenberg		State CO	Well Configuration Type Vertical
Ground Elevation (ft) 4,755.00		Original KB Elevation (ft) 4,765.00		KB-Ground Distance (ft) 10.00	Spud Date 2/24/2004 00:00	Rig Release Date 3/5/2004 00:00		On Production Date 3/24/2004

Job

Drilling - original, 2/24/2004 00:00

Job Category Drilling		Primary Job Type Drilling - original		Start Date 2/24/2004	End Date 2/28/2004	Objective Drill a new Codell well		
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Daily Operations

Start Date	Summary	End Date
2/24/2004	Caza Rig #1: MIRU Spud hole @1:45 PM with 12 1/4" bit. TD 12 1/4" hole @ 420' at 5 PM. Make a wiper trip, condition and circulate, and survey (1/2 degree at 420'). Trip out and ran 9 joints of new, 24#, J-55, 8 5/8" surface casing to 401'. Set at 411'. Rig up Cementers Well Service, Inc and cemented with 230 sacks of class cement. Plug down @ 9:30 PM. Wait on cement.	
2/25/2004	Caza Rig #1: Nipple up BOP and trip in hole with 7 7/8" bit. Finish testing the BOP at 6:30 AM and began drilling with 7 7/8" bit at 6:30 AM.	
2/26/2004	Caza Rig #1: Drilling @ 3936 with 7 7/8" bit. Last survey @3191' - 2 degrees.	
2/27/2004	Caza Rig #1: Drilling @ 5905 with 7 7/8" bit. Last survey @4410' - 1.5 degrees.	
2/28/2004	Caza Rig #1: TD 7 7/8" hole at 7254' at 1:45 AM. Short trip, condition and circulate the hole, and survey (3/4 degree a 7254'). Began laying down the drill string at 4:45 AM. Out of the hole at 10:15 AM and rig up Phoenix and log. Loggers TD @ 7,247'. RU PSI and run dual induction from TD to Btm Surf Csg @ 411'. Run Comp Density & Neutron from 7,247' to 6,550' and 4,100' to 3,600'. RU Kimzey Casers, run TOPCO Autofill Guide Shoe, 1-4 1/2", 10.5# shoe jt @ 14.44', 1-4 1/2", 10.5# marker jt at 34.59', 167 jts of 4 1/2", M-65, 10.5# csg at 7,165.69" and 1 jt of 4 1/2", 11.6#, N-80 at 42.01'. Ran centralizers on jts 1,3,5,7,9,11,13,15,17,19. Land casing at 7,233.64', PBTD at 7,219.2'. Circ hole for 45 minutes and RU Halliburton. Pump 12 bbls MudFlush, 10 bbls Clayfix water, 6 bbls (20 sxs) of 50/50 poz with additives at 14.6 ppg, 238 bbls (330 sxs) of HLC at 10.5 #/gal, and 52 bbls (180 sxs) of 50/50 poz with additives at 14.6 PPG. Wash lines and drop plug. Displace cement with 116 bbls of Clayfix water. Plug down at 6:19 pm, plug held, set slips at 6:30 pm and released rig at 7:30 pm on 02/28/2004.	

Initial Completion, 3/4/2004 00:00

Job Category Completion/Workover		Primary Job Type Initial Completion		Start Date 3/4/2004	End Date 3/5/2004	Objective Complete a Codell well		
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Daily Operations

Start Date	Summary	End Date
3/4/2004	MIRU Nuex Wireline. Run gamma bond VDL from PBTD 7,189' to 2,430'. Perf Codell fro 7,021' - 7,031' with 3 1/8" ppg at 3 spf with 120 degrees phasing and 11 gram charges (30 holes). RDMO Nuex. Install frac valve.	
3/5/2004	MIRU BJ Services. Frac Codell to 7,021' - 7,031' with 2,707 bbls Vistar 20# gel, with 218,040# of Ottawa 20/40 sand and 8,000# Super LC 20/40 sand. Stage at 1,2,3,4 ppg at ATP=3,865 psi and 16.5 BPM. Flush with 111 bbls freshwater (10 bbls had 2% ClayTreat). ISDP=3,745 psi. Well on flowback on 20/64" choke at 3,550 psi at 11:05 am.	

Tubing Repair, 4/3/2004 00:00

Job Category Completion/Workover		Primary Job Type Tubing Repair		Start Date 4/3/2004	End Date 4/12/2004	Objective Install tubing in well		
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Daily Operations

Start Date	Summary	End Date
4/3/2004	4 1/2" Casing, Depth 7,223.64'. 2 3/8" New tubing, Depth 7,007.05' KB. PBTD 7,219.2'. Codell perforations 7,021'-31'. Key Energy Rig #30: MIRU. Late in the day. Shut down for the day.	
4/6/2004	Key Energy Rig #30: Well head pressures @ 100. Killed well with 40 bbls. Nipple up well head. Nipple up BOP. TIH. Tally and drift with Mini "L" 227 joints tagging sand @ 7,034.73'. Cleaned hole to 7,219' with 232 joints. Laid down 7 joints. Nipple down BOP. Flanged up well head. Landed 225 joints + 2 - 10' subs + SN + NC + KB @ 7,007.05' KB. Broached tubing to SN. Shut in well. RDMO. Total load to recover 40 bbls. Sand 3.73' below bottom perf. SV in well.	
4/8/2004	Service Rig #99: MIRU. Check well pressures @ Blow/Vacuum. Made 2 runs. Fluid level @ 5,218'. Stopped for roustabout crew to build well head. Started back up. Made one run. Well kicked off. Flow tested. Shut down for the day. Final tubing pressure @ 100. Final casing pressure @ 100. Recovered 70 bbls.	
4/9/2004	Service Rig #99: Check well pressures @ 500/800. Ran through separator and flow test. Well stalled. Made 5 runs. Well kicked on. Flow tested. Well ran fine. Shut in. Final tubing pressure @ 300. Final casing pressure @ 750. Recovered 55 bbls. Shut down for the day.	
4/12/2004	Service Rig #99: Check well pressures @ 800/1550. Put well through separator. Flow tested well. Well ran fine. Recovered 27 bbls. Final tubing pressure @ 600. Final casing pressure @ 1400. RDMO	

Mechanical Integrity Test, 1/21/2015 06:00

Job Category Completion/Workover		Primary Job Type Mechanical Integrity Test		Start Date 1/21/2015	End Date	Objective MIT		
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				On Production Date 3/24/2004

Daily Operations

Start Date	Summary	End Date																														
1/21/2015	STP 250 psi, SCP 250 psi, SSCP 0 psi. not on blow down through production equipment, SSCP 0 psi, MIRU Ensign 314, held safety meeting, RU rig and all equipment, pressure tested hard lines, blew well down to rig tank, control well w/30 bbls Claytreat/Biocide water down tubing, pumped 30 bbls down casing, function tested BOP's, ND WH, NU BOP, PU tag jts, TIH w/ 4 jts, no tag @ 7,167.61' (51' above PBDT, 136' of rat hole), LD tag jts, RU Pick Testers, POOH w/production tbg to derrick testing to 6000 psi, all jts tested good, RD tester, out of hole w/ 226 jts 2 3/8" J-55 EUE 8rd tbg, 2-10' subs, sn/nc, tbg was landed at 7,041.61' KB (10.61' below Codell perms), SI and isolate well, shut and locked blind rams on BOP's, drained lines and pump, prepared for next day operations, SDFN	1/21/2015																														
1/22/2015	SCP 100 psi, SSCP 0 psi, held safety meeting, blew well down to rig tank, control well w/20 bbls Claytreat/Biocide water, PU bit and scraper dressed for 4 1/2" 11.6# casing provided by STS, TIH w/ scraper and 226 jts of tubing, RU circulation equipment, rolled hole clean, no communication up surface casing, held safety meeting, POOH w/226 jts of tbg to derrick, LD bit and scraper, PU STS's 4 1/2" WLTC RBP, TIH w/production tbg, set RBP at 6,982.43' KB and tools w/10' out on jt # 225 (38.57' above top of Codell formation), LD 1 jt, held safety meeting, MIRU Pick Testers, pressured casing to 500 psi, held and charted pressure for 15 mins, 7 psi pressure gain, good test, State Representative was not on 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, in hole w/ 150 jts, Shut in and isolate well, shut and locked pipe rams on BOP's, drained lines and pump, prepared for next day operation. SDFN	1/22/2015																														
1/23/2015	<p>SCP 0 psi, STP 0 psi, SSCP 0 psi, held safety meeting, opened well to rig tank, held safety meeting, continued TIH with production tubing, ND BOP, land tbg in WH 7,013.53' KB (7.47' above the Codell) w/225 jts plus 2-10' subs, NU WH, did not dropped new PCS full port standing valve and broached to seatnipple w/1.901" broach, RU swab equipment.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">ITP-0 psi</td> <td style="width: 30%;">ICP-0 psi</td> <td style="width: 40%;"></td> </tr> <tr> <td>IFL-2400'</td> <td>FFL-4200'</td> <td></td> </tr> <tr> <td>Swabed back 34 bbls water</td> <td></td> <td></td> </tr> <tr> <td>FTP-blow</td> <td>FCP-50 psi</td> <td></td> </tr> <tr> <td>Made 15 swab runs</td> <td></td> <td></td> </tr> </table> <p>isolate well, drained lines and pump, racked pump and tank, RDMOL.</p> <table style="width: 100%; border: none; margin-top: 10px;"> <tr> <td style="width: 30%;">Tbg detail:</td> <td style="width: 30%;">7.0' adj KB</td> <td style="width: 40%;">7.0'</td> </tr> <tr> <td>225 jts 2 3/8" 4.7# J-55 EUE 8rd</td> <td>6984.93'</td> <td>6991.93'</td> </tr> <tr> <td>1-10' 2 3/8" J" 4.7# J-55 EUE 8rd sub</td> <td>10.0'</td> <td>7001.93'</td> </tr> <tr> <td>1-10' 2 3/8" J" 4.7# J-55 EUE 8rd sub</td> <td>10.0'</td> <td>7011.93'</td> </tr> <tr> <td>Seatnipple/notched collar</td> <td>1.60'</td> <td>7013.53'</td> </tr> </table>	ITP-0 psi	ICP-0 psi		IFL-2400'	FFL-4200'		Swabed back 34 bbls water			FTP-blow	FCP-50 psi		Made 15 swab runs			Tbg detail:	7.0' adj KB	7.0'	225 jts 2 3/8" 4.7# J-55 EUE 8rd	6984.93'	6991.93'	1-10' 2 3/8" J" 4.7# J-55 EUE 8rd sub	10.0'	7001.93'	1-10' 2 3/8" J" 4.7# J-55 EUE 8rd sub	10.0'	7011.93'	Seatnipple/notched collar	1.60'	7013.53'	1/23/2015
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Pick Testers
Sterling, CO 80751

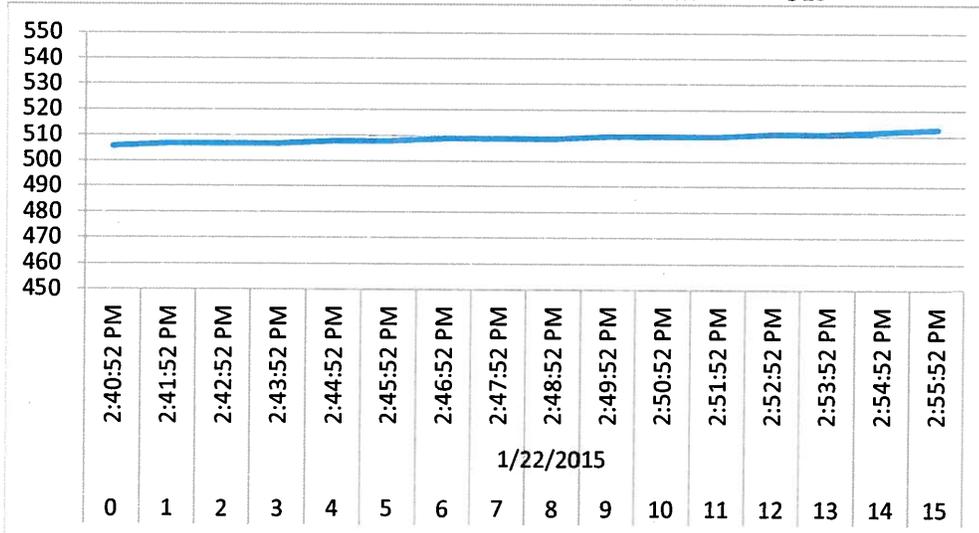
Guy Dove
970-520-2769

PDC Energy
 Grady Dyer 14-5

Chad Sailors
 M.I.T.

legals: 6N 64W sec 05 SW SWA
 API: 05-123-2196 00000

Interval:	60 Seconds		
DataPoint	LogDate	LogTime	4-P PSI
0		2:40:52 PM	506
1		2:41:52 PM	507
2		2:42:52 PM	507
3		2:43:52 PM	507
4		2:44:52 PM	508
5		2:45:52 PM	508
6		2:46:52 PM	509
7		2:47:52 PM	509
8	1/22/2015	2:48:52 PM	509
9		2:49:52 PM	510
10		2:50:52 PM	510
11		2:51:52 PM	510
12		2:52:52 PM	511
13		2:53:52 PM	511
14		2:54:52 PM	512
15		2:55:52 PM	513



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.

Complete the Attachment Checklist

	Oper	OGCC
Pressure Chart		
Cement Bond Log		
Tracer Survey		
Temperature Survey		

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: 05-123-21960 Field Name: Wattenberg Field Number:
 Well Name: Grady Dyer Number: 14-5
 Location (QtrQtr, Sec, Twp, Rng, Meridian): SWSW 6N-64W-5

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) Codell	Perforated Interval: <input type="checkbox"/> NA 7021-7031'	Open Hole Interval: <input type="checkbox"/> NA	Use when perforations or open hole is isolated by bridge plug or cement plug Bridge Plug or Cement Plug Depth 6982.43'

Tubing Casing/Annulus Test <input type="checkbox"/> NA			
Tubing Size: 2 3/8"	Tubing Depth: 6974.93	Top Packer Depth: N/A	Multiple Packers? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

Test Data					
Test Date 11/22/15	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 506 psi	Casing Pressure - 5 Min. 508 psi	Casing Pressure - 10 Min. 510 psi	Final Casing Test Pressure 513 psi	Pressure Loss or Gain During Test 7 psi gain	
Test Witnessed by State Representative? <input type="checkbox"/> YES <input checked="" type="checkbox"/> 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: Chad Sailors
 Signed: [Signature] Title: Work over Rig Supervisor Date: 11/22/15
 OGCC Approval: _____ Title: _____ Date: _____

Conditions of Approval, if any: