

State of Colorado Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303)894-2100 Fax: (303)894-2109



SUNDRY NOTICE

Submit original plus one copy. This form is to be used for general, technical and environmental sundry information. For proposed or completed operations, describe in full on Technical Information Page (Page 2 of this form) Identify well or other facility by API Number or by OGCC Facility ID. Operator shall send an informational copy of all sundry notices for wells located in High Density Areas to the Local Government Designee (Rule 603b.)

RECEIVED MAR 23 2012 COGCC/Rifle Office

1. OGCC Operator Number: 100185 4. Contact Name: Heather Mitchell
2. Name of Operator: Encana Oil & Gas (USA), Inc.
3. Address: 370 17th Street, Suite 1700 City: Denver State: CO Zip: 80202
5. API Number 05-045-14543 OGCC Facility ID Number
6. Well/Facility Name: N. Parachute 7. Well/Facility Number CP05B-3 H04 596
8. Location (Qtr/Qtr, Sec, Twp, Rng, Meridian): SENE Sec. 4, T5S R96W, 6th PM
9. County: Garfield 10. Field Name: Grand Valley
11. Federal, Indian or State Lease Number:

General Notice

CHANGE OF LOCATION: Attach New Survey Plat (a change of surface qtr/qtr is substantive and requires a new permit)
CHANGE SPACING UNIT: Formation Wasatch Formation Code WTSC Spacing order number Unit Acreage Unit configuration
CHANGE OPERATOR (prior to drilling): Effective Date: Plugging Bond: Blanket Individual
CHANGE WELL NAME: From: To: Effective Date:
ABANDONED LOCATION: Was location ever built? Is site ready for inspection? Date Ready for inspection:
NOTICE OF CONTINUED SHUT IN STATUS: Date well shut in or temporarily abandoned: Has Production Equipment been removed from site? MIT required if shut in longer than two years.
SPUD DATE: REQUEST FOR CONFIDENTIAL STATUS (6 mos from date casing set)
SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK: Method used Cementing tool setting/perf depth Cement volume Cement top Cement bottom Date
RECLAMATION: Attach technical page describing final reclamation procedures per Rule 1004. Final reclamation will commence on approximately Final reclamation is completed and site is ready for inspection.

Technical Engineering/Environmental Notice

Notice of Intent: Approximate Start Date: Report of Work Done: Date Work Completed:
Details of work must be described in full on Technical Information Page (Page 2 must be submitted.)
Intent to Recomplete (submit form 2) Request to Vent or Flare E&P Waste Disposal
Change Drilling Plans Repair Well Beneficial Reuse of E&P Waste
Gross Interval Changed? Rule 502 variance requested Status Update/Change of Remediation Plans
Casing/Cementing Program Change Other: Revised Convert to Injection for Spills and Releases

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.

Signed: Heather R. Mitchell Date: 03/23/2012 Email: heather.mitchell@encana.com
Print Name: Heather R. Mitchell Title: Regulatory Analyst

COGCC Approved: [Signature] Title: [Signature] Date: 3/26/12

CONDITIONS OF APPROVAL, IF ANY:

SAME COA's as are on Form 1 #2541954

TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

1. OGCC Operator Number:	100185	API Number:	05-045-14543
2. Name of Operator:	Encana Oil & Gas (USA), Inc. OGCC Facility ID #		
3. Well/Facility Name:	N. Parachute	Well/Facility Number:	CP05B-3 H04 596
4. Location (QtrQtr, Sec, Twp, Rng, Meridian):	SENE Sec. 4 T5S R96W, 6th PM		

**RECEIVED**  
**MAR 23 2012**  
COGCC/Rifle Office

This form is to be completed whenever a Sundry Notice is submitted requiring detailed report of work to be performed or completed. This form shall be transmitted within 30 days of work completed as a "subsequent" report and must accompany Form 4, page 1.

5. DESCRIBE PROPOSED OR COMPLETED OPERATIONS

Encana respectfully requests to convert the above referenced well to an injection well. Please find the attached revised procedure and current and proposed wellbore diagrams. An application for injection has also been submitted as well as a recomplete permit doc. 400249777



## CONDITIONS OF PERMIT APPROVAL

ENCANA  
N. PARACHUTE 3 CP05B-3 H04 596  
SENE 4 5S 96W, 6<sup>TH</sup>  
05-045-14543

- 1) BEFORE STIMULATING WELL, CAPTURE WATER SAMPLE FROM THOSE FORMATION(S) REQUESTED FOR INJECTION AND ANALYZE FOR TOTAL DISSOLVED SOLIDS. SUBMIT LAB ANALYSIS TO DENISE ONYSKIW AT [DENISE.ONYSKIW@STATE.CO.US](mailto:DENISE.ONYSKIW@STATE.CO.US).
- 2) INJECTION IS NOT AUTHORIZED UNTIL APPROVAL OF FORM 31 AND 33.
- 3) <sup>B</sup> SUBMIT STEP RATE TEST RESULTS TO DETERMINE FORMATION FRACTURE PRESSURE WITH FORMS 31 & ~~32~~ 33
- 4) RUN A CBL ON THE 7" INTERMEDIATE CASING
- 5) SUBMIT UPDATED WELL SCHEMATICS DEPICTING THE GRAY COLORED CEMENT COLUMN OUTSIDE THE SURFACE CASING

**EnCana Oil & Gas (USA) Inc.**

**CP05B-03 H04 596**  
**API: 05045145430000**

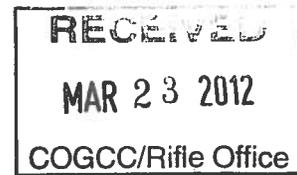
Prepared By: D. Pake Younger  
Office: 970-285-2780  
Cell: 970-260-2423  
Email: pake.younger@encana.com



**Injection Well Workover Procedure**

1. MIRU Workover Rig
  2. ND Wellhead, NU BOP on top of 7-1/16" 5k valve, Pressure Test BOP
  3. RU wireline unit. Make chemical cut in 4-1/2" casing at 7030. POOH with chemical cutter.
  4. Unland hanger and POOH and LD 4-1/2" casing.
  5. RU wireline unit. RIH set 4-1/2" 10K CIBP @ 7180'. Spot 200' balanced cement plug on top of CIBP. RDMO Workover rig.
  6. Pull CBL across 7" casing to verify cement top. Notify engineering of observed cement top. RD wireline unit.
  7. Pressure test CIBP and wellbore to 5000 psi & chart. (If press test fails call Engineer).
  8. RU Wireline and Perf stage 01 per Frac Design.
  9. RU Workover rig, Install tubing, perform breakdown, swab back breakdown load plus 1 bbl obtain water sample and label as formation water.
  10. Pull tubing, RDMO Workover rig.
  11. RU Frac crew. Perf and frac injection zones as per design (5282' – 6880') (Wasatch and Wasatch G). RD Frac crew and wireline.
  12. Perform Step-Rate Test (SRT) with Bottom-hole gauges. See Appendix B for Step Rate Test Procedure.
-

13. MIRU Service rig. RIH with XXXXXXXX” coated tubing and Nickel-coated packer, and one joint of tubing below. Set packer at 5200’ (above Wasatch G). Land in hanger, ND 7-1/16” 5k valve.
14. Perform Injectivity test with final injection assembly installed. Injectivity Test Procedure TBD based on Frac Gradient.
15. MIT backside to 2500 psi (possibly greater, depending on Final injection pressure).
16. Call state and notify of MIT. Perform MIT to 2500 psi. Chart test and have state representative on location for witness.



**Appendix A: Frac Procedure:**

TBD Based on CBL.

**RECEIVED**  
**MAR 23 2012**  
COGCC/Rifle Office

RECEIVED  
MAR 23 2012  
COGCC/Rifle Office

**Appendix B: Step-Rate Test (SRT) Procedure:**

1. RU Slickline and Install downhole memory gauges (low resolution data gather – 1 data point per minute). Land gauges at XXXXXXXX’.
2. RU Pump Crew (Cement Pump). Record surface pressure and pump rate.
3. Begin pumping at 4 bpm until hole is full. Record Volume to fill hole. Pump Schedule as follows:

Step #	Rate (bpm)	Duration (mins)	Volume (bbls)	Cum Volume (bbls)
1	6	30	180	180
2	8	30	240	420
3	10	30	300	720
4	12	30	360	1080

4. After Step 04, SD and record casing pressure at surface for four hours.
5. Retrieve downhole memory gauges, download and send data to [pake.younger@encana.com](mailto:pake.younger@encana.com) for analysis.

**RECEIVED**  
**MAR 23 2012**  
COGCC/Rifle Office

GL: 8,270'  
KB: 8287'  
Updated: 1-27-12 TMG  
Current

0-5.8 deg. inclination @ 0-1986'MD

TOC @ 1,819' (from CBL)

0-18.5 deg. Inclination @1986'-7364'MD

0-6.93 deg. Inclination @ 11,200'-TD

Spudded: 9/5/07  
Stimulation Finished:

NPM CP05B-03 H04 596  
ConocoPhillips  
Piceance Basin  
Garfield County, CO  
API: 0504514543

Sfc Csg: 9.625" x 8.921" 36# J-55  
@ 2019'KB  
14.750" bit @ 2030'KB

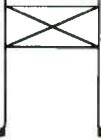
Wireline reported tight spot @ ~ 5,800' (05/07/0)

TOC @ 7,030' (from CBL)

Int. Csg: 7.0" x 6.366" 23# N-80  
@ 7759'KB  
8.75" bit @ 7870'KB

No perforations

**Note:**  
Pressure test failed on 5/06/08  
From 9,500 PSI to 1,000 PSI



PBTD: 11,020' (Wireline Tag 05/07/08)  
CIBP: 11,170' (Dump Bail 22' Cmt on Top 05/04/08)

Marker jts: 38.47' @ 10352' 38.43' @ 8807' 38.47' @ 7:  
38.43' @ 5261'  
Prod. Csg: 4.5" x 3.92" 13.5# P-110 @ 11174'KB  
6.125" bit @ 11200'KB  
Float Shoe @ 11,174'KB (Wet Shoe)

**Appendix C: Proposed Final Wellbore Schematic**

**RECEIVED**  
**MAR 23 2012**  
 COGCC/Rifle Office

