

State of Colorado Oil and Gas Conservation Commission

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



Received 7/19/2012 Rifle COGCC Rem 2111

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.)

1. OGCC Operator Number: 100185 4. Contact Name: Julia M. Carter
2. Name of Operator: Encana Oil & Gas (USA) Inc. Phone: 720.876.5240
3. Address: 370 17th Street Suite 1700 City: Denver State: CO Zip 80202 Fax: 720.876.6240
5. API Number: OGCC Facility ID Number: 323905
6. Well/Facility Name: Standard Shale 7. Well/Facility Number: 6401
8. Location (Qtr/Qtr, Sec, Twp, Rng, Meridian): NWNW Sec 9 T7S-R99W, 6th PM
9. County: Garfield 10. Field Name: Wildcat
11. Federal, Indian or State Lease Number:

Complete the Attachment Checklist

OP OGCC

Table with 2 columns: Survey Plat, Directional Survey, Surface Eqmpt Diagram, Technical Info Page, Other. Includes an 'X' in the Technical Info Page column.

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
CHANGE OF OPERATOR (prior to drilling):
CHANGE WELL NAME
ABANDONED LOCATION:
NOTICE OF CONTINUED SHUT IN STATUS
SPUD DATE:
REQUEST FOR CONFIDENTIAL STATUS
SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK
RECLAMATION:

Technical Engineering/Environmental Notice

Notice of Intent
Report of Work Done
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: COA Compliance 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: Julia M. Carter Date: 7/19/12 Email: julia.carter@encana.com
Print Name: Julia M. Carter Title: Regulatory Analyst

COGCC Approved: Linda Spry O'Rourke Title: NW EPS Date: 8/7/2012

CONDITIONS OF APPROVAL, IF ANY:

NOT APPROVED

TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

Received
7/19/2012
Rifle
COGCC

1. OGCC Operator Number: 100185 API Number: _____

2. Name of Operator: Encana Oil & Gas (USA) Inc. OGCC Facility ID # 323905

3. Well/Facility Name: Standard Shale Well/Facility Number: 6401

4. Location (QtrQtr, Sec, Twp, Rng, Meridian): NWNW Sec 9 T7S-R99W, 6th PM

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**

Please find the attached water samples for Locations 423633 to satisfy the COA outlined below. Water was not transferred from wells on location 383216.

Please note the remediation number is 2111.

The following COA was given upon approval of Axia and Encana Transfer and Receiving Water Reuse Plans:

Approval of this plan is contingent upon analytical laboratory results for representative samples of Encana's destination formation water from wells with location IDs: 383216 and 423633. Analytical results shall include all testing methods described on pages 5-6 of the Produced Water Reuse Waste Minimization Plan. Operator shall reference the remediation number assigned to this Waste Transfer Agreement and submit analytical data within 60 days from sundry approval date.

COGCC COMMENT: Excerpt from pages 5 & 6 of Produced Water Reuse Waste Minimization Plan follow in italics. The analytical results provided in this sundry to not meet the requirements of the waste plan or the COA that required compliance with the waste plan. This data submittal is incomplete for its intention and is therefore **NOT APPROVED**. Submit the required analytical data by 10/7/2012.

Specifically, Encana and Axia will each be obligated to maintain laboratory analytical results for a representative sample(s) of its Production and Flowback Water. On an annual basis, one or more samples will be collected for the type of source(s) representative of the Production and Flowback Water and analyzed for the following chemical parameters using the appropriate EPA standard analytical method:

- Volatile organic compounds EPA Method 624 (GC/MS)
- Semi-volatile organic compounds EPA Method 625 (GC/MS)
- Dissolved Metals EPA Method 200.7 (ICP)
- Dissolved Inorganics (non-metals) EPA Method 300.0 (IC)
 - Br, Cl, F, Nitrate/Nitrite, Sulfate
- General water quality parameters
 - Specific Conductance EPA Method 120.1
 - Hardness EPA Method 130.1
 - Total Dissolved Solids EPA Method 160.1
 - pH EPA Method 150.2
 - Alkalinity EPA Method 310.1
- Gross alpha and beta radioactivity EPA Method 900.0

COGCC COMMENT: Need Facility ID # and Facility name and/or API number for source of attached sample. Not enough identifying information on the sample report to clearly associate it with a well or facility. This sundry form reports location 323905, yet text on page 2 says sample is for location 423633 and that water was not transferred from location 383216. The approved workplan references locations 421047 and 323905. Clarification regarding the location sampled and change of locations is required.

HALLIBURTON

Rockies Lab Water Analysis Report
District: Grand Junction

Tested By Brandon
Reported By Brandon

Customer and Well Information

Company	<u>Encana</u>	Well/Sample Name	<u>Encana</u>
Report To	<u>Frac Engineers</u>	Date Received	<u>7/2/2012</u>
		Date Tested	<u>7/2/2012</u>

Sample Physical Characteristics

Sample 1	<u>W286</u>				
Temperature	<u>83.1</u>	°F	Resistivity	<u>0.3</u>	Ω·m
Specific Gravity	<u>1.020</u>		Conductivity	<u>39.7</u>	mS/cm
pH	<u>7.1</u>		TDS	<u>24700.0</u>	mg/L
Turbidity	<u>111.0</u>	FNU	Color (observation)	<u>Lt Brown</u>	

Sample Chemical Characteristics

Anions		Cations			
Chloride	<u>14601</u>	mg/L	Total Iron	<u>5.9</u>	mg/L
Sulfate	<u>0</u>	mg/L	Ferrous Iron	<u>0.2</u>	mg/L
Carbonate	<u>0</u>	mg/L	Potassium	<u>74</u>	mg/L
Bicarbonate	<u>484</u>	mg/L	Calcium	<u>1980</u>	mg/L
Hydroxide	<u>0</u>	mg/L	Magnesium	<u>300</u>	mg/L
			Sodium (calculated)	<u>6762</u>	mg/L

General Comments

Please forward to Mike Knowles at knowlesllc@aol.com

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