

FORM  
5A

Rev  
06/12

State of Colorado

Oil and Gas Conservation Commission

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



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Document Number:

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Date Received:

COMPLETED INTERVAL REPORT

The completed interval Report, Form 5A, shall be submitted within thirty (30) days of completing a formation (successful or not), when a formation is temporarily abandoned or permanently abandoned, for a recompletion, reperforation or restimulation, or when a formation is commingled. Fill out a section for each formation. Attach as many pages as required to fully describe the work. List in order of completion.

1. OGCC Operator Number: 100185  
2. Name of Operator: ENCANA OIL & GAS (USA) INC  
3. Address: 370 17TH ST STE 1700  
City: DENVER State: CO Zip: 80202-  
4. Contact Name: Sheilla Reed-High  
Phone: (720) 876-3678  
Fax: (720) 876-4678

5. API Number 05-123-34369-00  
6. County: WELD  
7. Well Name: GRATTAN  
Well Number: 4A-30H  
8. Location: QtrQtr: SESE Section: 30 Township: 2N Range: 64W Meridian: 6  
9. Field Name: WATTENBERG Field Code: 90750

Completed Interval

FORMATION: NIOBRARA Status: PRODUCING Treatment Type: FRACTURE STIMULATION  
Treatment Date: 04/16/2012 End Date: 04/19/2012 Date of First Production this formation: 05/01/2012  
Perforations Top: 7637 Bottom: 10865 No. Holes: 730 Hole size: 0.38  
Provide a brief summary of the formation treatment: Open Hole: ☐

Grattan 4A-30H Totals: 14 Stages: 61,951 BBLS Total Fluid - 244,453# 40/70, 3,177,542# 30/50, 156,323# 20/40 3,578,318# Total Sand.

FRAC STG 1 WITH 24 BBLS 15% HCL, 1392 BBLS SW, 2746 BBLS SILVERSTIM 28# X/L GEL, 4327 BBLS TOTAL FLUID. STAGE 1 PUMPDOWN 165 BBLS (INCLUDED IN TOTAL FLUID). PLACED 17,682# 40/70, 218,463# 30/50, 13,002# 20/40, 249,146# TOTAL SAND.

SET CFP 1 AT 10,671'. Frac stage 2 with 24 bbls 15% HCL, 1361 Bbls slick water, 2748 bbls Silver Stim 28# XL.place 17,394# 40/70, 220,897# 30/50, and 13,012# 20/40 sand, (251,302# total).

Set CFP 10,425'. Frac stage 3 with 24 bbls 15% HCL, 1356 bbls. slickwater, 2743 bbls. Silver Stim 28# XL. Placed 17,390# 40/70, 220,969# 30/50, and 13,028# 20/40 sand.(251,387# total).

Set CFP @10,174'. FRAC STG 4 WITH 24 BBLS 15% HCL, 1361 BBLS SW, 2729 BBLS SILVERSTIM 28# X/L GEL, 4237 BBLS TOTAL FLUID. STAGE 4 PUMPDOWN 123 BBLS (INCLUDED IN TOTAL FLUID). PLACED 17,234# 40/70, 220,001# 30/50, 13,099# 20/40, 250,334# TOTAL SAND.

SET CFP 4 AT 9,918'. FRAC STG 5 WITH 24 BBLS 15% HCL, 1396 BBLS SW, 2951 BBLS SILVERSTIM 28# X/L GEL, 4476 BBLS TOTAL FLUID. STAGE 5 PUMPDOWN 104 BBLS (INCLUDED IN TOTAL FLUID). PLACED 4,512# 40/70, 170,995# 30/50, NO# 20/40, 175,506# TOTAL SAND.

SET CFP 5 AT 9,681'. frac stage 6 with 24 bbls 15% HCL, 1347 bbls SW, 2700 bbls Silver Stim 28# XL placing 17,382# 40/70, and 220,728# 30/50 sand. (238,110# total sand).

Set stage 7 CFP @ 9428'. Frac stage 7 with 24 Bbls 15% HCL, 1349 bbls SW, 2729 Bbls Silver Stim XL and 17,390# 40/70, 220,708# 30/50, and 13,021# 20/40 sand.(251,119# total sand).

Set stage 8 CFP @ 9175'. Frac stage 8 with 24 bbls 15% HCL, 1337 bbls SW, 2740 BBls Silver Stim placing 17,353# 40/70, 222,158# 30/50, and 13,003# 20/40 sand (total sand 252,514#).

SET CFP 8 AT 8925'. FRAC STG 9 WITH 24 BBLS 15% HCL, 1380 BBLS SW, 2735 BBLS SILVERSTIM 28# X/L GEL, 4221 BBLS TOTAL FLUID. STAGE 9 PUMPDOWN 82 BBLS (INCLUDED IN TOTAL FLUID). PLACED 17,316# 40/70, 220,575# 30/50, 12,641# 20/40, 250,531# TOTAL SAND.

SET CFP 9 AT 8676'. FRAC STG 10 WITH 24 BBLS 15% HCL, 1390 BBLS SW, 3371 BBLS SILVERSTIM 28# X/L GEL, 4848 BBLS TOTAL FLUID. STAGE 10 PUMPDOWN 63 BBLS (INCLUDED IN TOTAL FLUID). PLACED 17,754# 40/70, 228,941# 30/50, 13,109# 20/40, 259,803# TOTAL SAND.

SET CFP 10 AT 8423'. Frac stage 11 with 24 bbls acid, 1334 bbls. SW, and 2722Bbls Silver Stim, placing 17,355# 40/70, 220,0499# 30/50, and 13,056# 20/40 sand. (total sand 250,910#)

Set CFP @ 8177'. Frac stage 12 with 1582 Bbls SW, 3217 bbls. 28# Silver Stim, placing 20,786# 40/70 sand, 264,412# 30/50 sand, and 15,664# 20/40 sand. (total sand 300,862#).

Set CFP @ 7887'. Frac stage 13 with 1546 bbls SW, 3316 Bbls Silver Stim, placing 23,679# 40/70, 263,735# 30/50, and 15,397# 20/40 sand. (total sand 302,811#).

Set CFP @ 7596'.FRAC STG 14 WITH 24 BBLS 15% HCL, 1555 BBLS SW, 3238 BBLS SILVERSTIM 28# X/L GEL, 4817 BBLS TOTAL FLUID. PLACED 21,230# 40/70, 264,464# 30/50, 8289# 20/40, 293,983# TOTAL SAND.

Set CBP @ 6390'. Drilled out CBP @ 6390'. CFP @ 7596', 7887', 8177', 8423', 8626',8925', 9175'. 04-24-12. Drilled out CFP @ 9428', 9681', 9918', 10174', 10425', 10621'. 04-25-12

This formation is commingled with another formation: ☐ Yes ☒ No

Total fluid used in treatment (bbl): 61951

Max pressure during treatment (psi): 7671

Total gas used in treatment (mcf):

Fluid density at initial fracture (lbs/gal): 8.34

Type of gas used in treatment:

Min frac gradient (psi/ft):

Total acid used in treatment (bbl):

Number of staged intervals: 14

Recycled water used in treatment (bbl): 61951

Flowback volume recovered (bbl):

Fresh water used in treatment (bbl):

Disposition method for flowback: DISPOSAL

Total proppant used (lbs):

Rule 805 green completion techniques were utilized: ☒

Reason why green completion not utilized: \_\_\_\_\_

**Fracture stimulations must be reported on FracFocus.org**

**Test Information:**

Date: 05/01/2012 Hours: 24 Bbl oil: 257 Mcf Gas: 0 Bbl H2O: 632  
Calculated 24 hour rate: Bbl oil: 257 Mcf Gas: 0 Bbl H2O: 632 GOR: 0  
Test Method: FLOWING Casing PSI: 1450 Tubing PSI: 1050 Choke Size: \_\_\_\_\_  
Gas Disposition: SOLD Gas Type: DRY Btu Gas: 1372 API Gravity Oil: 43  
Tubing Size: 2 + 3/8 Tubing Setting Depth: 7122 Tbg setting date: 04/27/2012 Packer Depth: \_\_\_\_\_

Reason for Non-Production: \_\_\_\_\_

Date formation Abandoned: \_\_\_\_\_ Squeeze: ☐ Yes ☐ No If yes, number of sacks cmt \_\_\_\_\_

\*\* Bridge Plug Depth: \_\_\_\_\_ \*\* Sacks cement on top: \_\_\_\_\_ \*\* Wireline and Cement Job Summary must be attached.

Comment:

\_\_\_\_\_

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

Signed: \_\_\_\_\_ Print Name: Sheilla D. Reed-High  
Title: Drilling and Compl. Tech. Date: \_\_\_\_\_ Email: sheilla.reedhigh@Encana.com  
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**Attachment Check List**

Att Doc Num	Name
400360282	WELLBORE DIAGRAM

Total Attach: 1 Files

**General Comments**

**User Group** **Comment** **Comment Date**

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Total: 0 comment(s)