

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:  
400387104

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: <u>10267</u>	4. Contact Name: <u>Mathew Goolsby</u>
2. Name of Operator: <u>VECTA OIL &amp; GAS LTD</u>	Phone: <u>(303) 618-7736</u>
3. Address: <u>575 UNION BLVD #208</u>	Fax: <u>(303) 945-2869</u>
City: <u>LAKEWOOD</u> State: <u>CO</u> Zip: <u>80228</u>	

5. API Number <u>05-017-07733-00</u>	6. County: <u>CHEYENNE</u>
7. Well Name: <u>Bierstadt</u>	Well Number: <u>32-33</u>
8. Location: QtrQtr: <u>SWNE</u> Section: <u>33</u> Township: <u>13s</u> Range: <u>47w</u> Meridian: <u>6</u>	
9. Field Name: <u>WILDCAT</u> Field Code: <u>99999</u>	

Completed Interval

FORMATION: MORROW-KEYES Status: PLUGGED AND ABANDONED Treatment Type: ACID JOB

Treatment Date: 01/23/2013 End Date: 01/24/2013 Date of First Production this formation:

Perforations Top: 5412 Bottom: 5414 No. Holes: 8 Hole size: 0.52

Provide a brief summary of the formation treatment: Open Hole:

MIRU Pro-Stim acid truck. Pressure test lines to 3000 psi. Pumped 7 bbls 15% HCL acid (Sequestered) ahead, displaced with 33 bbls 2% KCL water. Formation took fluid on a vacuum, pumped job away with the charge pump. ISIP was vac. RDMO Pro-Stim. TLTR 40 bbls. Swabbed load back plus 4 bbls. Fluid entry 1 bph with trace oil. Set CIBP at 5400 w/ 2 sks to cover Lower Morrow and Spergen.

This formation is commingled with another formation:  Yes  No

Total fluid used in treatment (bbl): 40 Max pressure during treatment (psi): 0

Total gas used in treatment (mcf): Fluid density at initial fracture (lbs/gal):

Type of gas used in treatment: Min frac gradient (psi/ft):

Total acid used in treatment (bbl): 7 Number of staged intervals:

Recycled water used in treatment (bbl): Flowback volume recovered (bbl):

Fresh water used in treatment (bbl): 33 Disposition method for flowback:

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: Hours: Bbl oil: Mcf Gas: Bbl H2O:

Calculated 24 hour rate: Bbl oil: Mcf Gas: Bbl H2O: GOR:

Test Method: Casing PSI: Tubing PSI: Choke Size:

Gas Disposition: Gas Type: Btu Gas: API Gravity Oil:

Tubing Size: 2 + 7/8 Tubing Setting Depth: 5370 Tbg setting date: 01/23/2013 Packer Depth: 5372

Reason for Non-Production: no rate

Date formation Abandoned: 01/25/2013 Squeeze:  Yes  No If yes, number of sacks cmt

\*\* Bridge Plug Depth: 5400 \*\* Sacks cement on top: 2 \*\* Wireline and Cement Job Summary must be attached.

FORMATION: MORROW V-4 Status: PLUGGED AND ABANDONED Treatment Type: \_\_\_\_\_

Treatment Date: 03/31/2013 End Date: \_\_\_\_\_ Date of First Production this formation: \_\_\_\_\_

Perforations Top: 5242 Bottom: 5247 No. Holes: 20 Hole size: 0.52

Provide a brief summary of the formation treatment: Open Hole:

RIH w/4" expandable perf gun loaded 4 spf, 90 degree phasing, 37 gram charges, w/EHD 46", .51 holes. Correlated all depths to CBL/CCL run 1/18/2013. Perforated 20 holes in the Upper Morrow Sand at 5,242' to 5,247'. No surface reaction. Set pkr 5212. Swabbed 4 bwph first day, no show oil. RU Pro-Stim acid truck. Test lines to 2500 psi. Total volume to perms 31 bbls. Truck loaded with 13 bbls 15% HCL acid. With charge pump, pumped 13 bbls acid ahead dropping 30 balls (20 perf holes), start 31 bbls 2% KCL water displacement Pumping at 3.5 bpm, caught pressure with 36 bbls pumped, kicked in Tri-plex, increased rate to 5.5 bpm, pressure increasing to 1600 psi. Shut down w/ISIP 600 psi, Vac in 30 seconds. Did not see a pressure break or any ball action. TLTR 44. Swabbed 11 hours recovering 36 bbls over load with show gas, no show oil. On 2/5/13 dumped 2 sks cmt on CIBP at 5272, then set CIBP 5210 w/ 2 sks cmt. LD tubing and packer, released rig.

This formation is commingled with another formation:  Yes  No

Total fluid used in treatment (bbl): 44 Max pressure during treatment (psi): 1600

Total gas used in treatment (mcf): \_\_\_\_\_ Fluid density at initial fracture (lbs/gal): \_\_\_\_\_

Type of gas used in treatment: \_\_\_\_\_ Min frac gradient (psi/ft): \_\_\_\_\_

Total acid used in treatment (bbl): 13 Number of staged intervals: \_\_\_\_\_

Recycled water used in treatment (bbl): \_\_\_\_\_ Flowback volume recovered (bbl): \_\_\_\_\_

Fresh water used in treatment (bbl): 31 Disposition method for flowback: \_\_\_\_\_

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: \_\_\_\_\_ Hours: \_\_\_\_\_ Bbl oil: \_\_\_\_\_ Mcf Gas: \_\_\_\_\_ Bbl H2O: \_\_\_\_\_

Calculated 24 hour rate: Bbl oil: \_\_\_\_\_ Mcf Gas: \_\_\_\_\_ Bbl H2O: \_\_\_\_\_ GOR: \_\_\_\_\_

Test Method: \_\_\_\_\_ Casing PSI: \_\_\_\_\_ Tubing PSI: \_\_\_\_\_ Choke Size: \_\_\_\_\_

Gas Disposition: \_\_\_\_\_ Gas Type: \_\_\_\_\_ Btu Gas: \_\_\_\_\_ API Gravity Oil: \_\_\_\_\_

Tubing Size: \_\_\_\_\_ Tubing Setting Depth: \_\_\_\_\_ Tbg setting date: \_\_\_\_\_ Packer Depth: \_\_\_\_\_

Reason for Non-Production: all water

Date formation Abandoned: 02/05/2013 Squeeze:  Yes  No If yes, number of sacks cmt \_\_\_\_\_

\*\* Bridge Plug Depth: 5210 \*\* Sacks cement on top: 2 \*\* Wireline and Cement Job Summary must be attached.

FORMATION: MORROW V-5 Status: PLUGGED AND ABANDONED Treatment Type: \_\_\_\_\_

Treatment Date: 01/25/2013 End Date: 01/30/2013 Date of First Production this formation: \_\_\_\_\_

Perforations Top: 5276 Bottom: 5280 No. Holes: 16 Hole size: 0.52

Provide a brief summary of the formation treatment: \_\_\_\_\_ Open Hole:

Load hole w/ 2% KCl to set cushion 2700' over Morrow. Perf 5276-5280 w/ 4 spf (0.52). RIH w/ 2 7/8" tubing and set packer at 5244. Swabbed well dry in 4 runs. RU Pro-Stim acid truck, loaded with 10 bbls, 15% HCL (sequestered) acid. Test lines to 3000 psi. Pumped 10 bbls acid, displaced to pkr with 31 bbls 2% KCL water. Tbg loaded at this point with charge pump. Kick in tri-plex, with rate at .50 bpm pressure increased to 2400 psi. Pumped 1 bbl to get acid on perms at 2400 psi. Let soak 1 min. Bring rate back up to .50 bpm pressure at 2100 psi. Increased rate to 3.6 bpm, pressure breaking back to 1700 psi at 3.6 bpm. Finished pumping 31 bbl total displacement at 3.6 bpm pressure stayed at 1700 psi. Shut down. ISIP- 400 psi. Vac in 4 mins. TLTR 41 bbl. Made swab run, well kicked off flowing (gas). Unloaded hole. Flowed gas and 25 to 30 BWP, for several days, but gas rate dying. Ran pressure bomb to bottom for 24 hours, 447 psi BHP. Set CIBP 5272 on 1/31/13. Added 2 sks cmt on 2/5/13.

This formation is commingled with another formation:  Yes  No

Total fluid used in treatment (bbl): 41 Max pressure during treatment (psi): 2400

Total gas used in treatment (mcf): \_\_\_\_\_ Fluid density at initial fracture (lbs/gal): \_\_\_\_\_

Type of gas used in treatment: \_\_\_\_\_ Min frac gradient (psi/ft): \_\_\_\_\_

Total acid used in treatment (bbl): 10 Number of staged intervals: \_\_\_\_\_

Recycled water used in treatment (bbl): \_\_\_\_\_ Flowback volume recovered (bbl): \_\_\_\_\_

Fresh water used in treatment (bbl): 31 Disposition method for flowback: \_\_\_\_\_

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: \_\_\_\_\_ Hours: \_\_\_\_\_ Bbl oil: \_\_\_\_\_ Mcf Gas: \_\_\_\_\_ Bbl H2O: \_\_\_\_\_

Calculated 24 hour rate: \_\_\_\_\_ Bbl oil: \_\_\_\_\_ Mcf Gas: \_\_\_\_\_ Bbl H2O: \_\_\_\_\_ GOR: \_\_\_\_\_

Test Method: \_\_\_\_\_ Casing PSI: \_\_\_\_\_ Tubing PSI: \_\_\_\_\_ Choke Size: \_\_\_\_\_

Gas Disposition: \_\_\_\_\_ Gas Type: \_\_\_\_\_ Btu Gas: \_\_\_\_\_ API Gravity Oil: \_\_\_\_\_

Tubing Size: 2 + 7/8 Tubing Setting Depth: 5244 Tbg setting date: 01/25/2013 Packer Depth: 5244

Reason for Non-Production: Limited reservoir.

Date formation Abandoned: 01/31/2013 Squeeze:  Yes  No If yes, number of sacks cmt \_\_\_\_\_

\*\* Bridge Plug Depth: 5272 \*\* Sacks cement on top: 2 \*\* Wireline and Cement Job Summary must be attached.

FORMATION: SPERGEN Status: PLUGGED AND ABANDONED Treatment Type: ACID JOB

Treatment Date: 01/21/2013 End Date: 01/21/2013 Date of First Production this formation: \_\_\_\_\_

Perforations Top: 5421 Bottom: 5430 No. Holes: 36 Hole size: 0.52

Provide a brief summary of the formation treatment: \_\_\_\_\_ Open Hole:

MIRU Pro-Stim. Pumped 21 bbl 28% HcL. Start at 2.5 bpm. At 6 bbls away started dropping bio-balls at 4 per bbl. At 31 bbls away kicked rate up to 4.3 bpm. Pressure broke at 1400 psi, back to 350 psi. Saw some ball action with balls hitting perfs. Pressure increased to 470 psi. Shut down after displacing tubing with 33 bbl 2% Kcl. ISIP = vacuum. Swabbed back load plus 4 bbl. Seeing 5% oil cut plus gas show (gas did burn). 2nd day swabbed 9 bbls for the day with 5% oil cut. Set RBP 5418 after perforating Lower Morrow. CIBP set 5400 with 2 sks on 1/25/13.

This formation is commingled with another formation:  Yes  No

Total fluid used in treatment (bbl): 54 Max pressure during treatment (psi): 1400

Total gas used in treatment (mcf): \_\_\_\_\_ Fluid density at initial fracture (lbs/gal): \_\_\_\_\_

Type of gas used in treatment: \_\_\_\_\_ Min frac gradient (psi/ft): \_\_\_\_\_

Total acid used in treatment (bbl): 21 Number of staged intervals: \_\_\_\_\_

Recycled water used in treatment (bbl): \_\_\_\_\_ Flowback volume recovered (bbl): \_\_\_\_\_

Fresh water used in treatment (bbl): 33 Disposition method for flowback: \_\_\_\_\_

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: \_\_\_\_\_ Hours: \_\_\_\_\_ Bbl oil: \_\_\_\_\_ Mcf Gas: \_\_\_\_\_ Bbl H2O: \_\_\_\_\_

Calculated 24 hour rate: Bbl oil: \_\_\_\_\_ Mcf Gas: \_\_\_\_\_ Bbl H2O: \_\_\_\_\_ GOR: \_\_\_\_\_

Test Method: \_\_\_\_\_ Casing PSI: \_\_\_\_\_ Tubing PSI: \_\_\_\_\_ Choke Size: \_\_\_\_\_

Gas Disposition: \_\_\_\_\_ Gas Type: \_\_\_\_\_ Btu Gas: \_\_\_\_\_ API Gravity Oil: \_\_\_\_\_

Tubing Size: 2 + 7/8 Tubing Setting Depth: 5372 Tbg setting date: 01/19/2013 Packer Depth: 5370

Reason for Non-Production: Sub economic rate and oil cut.

Date formation Abandoned: 01/25/2013 Squeeze:  Yes  No If yes, number of sacks cmt \_\_\_\_\_

\*\* Bridge Plug Depth: 5400 \*\* Sacks cement on top: 2 \*\* 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: Mathew Goolsby

Title: VP-Operations Date: \_\_\_\_\_ Email: matgoolsby@vecta-denver.com

**Attachment Check List**

Att Doc Num	Name
400387124	WIRELINE JOB SUMMARY
400387125	WIRELINE JOB SUMMARY
400387126	WIRELINE JOB SUMMARY
400389437	WELLBORE DIAGRAM

Total Attach: 4 Files

**General Comments**

**User Group**

**Comment**

**Comment Date**

User Group	Comment	Comment Date

Total: 0 comment(s)