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) 892109

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Document Number: 401453089

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: 96155
2. Name of Operator: WHITING OIL & GAS CORPORATION
3. Address: 1700 LINCOLN STREET SUITE 4700
City: DENVER State: CO Zip: 80290
4. Contact Name: Pauleen Tobin
Phone: (303) 837-1661
Fax:
Email: pollyt@whiting.com

5. API Number 05-123-41446-00
6. County: WELD
7. Well Name: Horsetail
Well Number: 08D-1735
8. Location: QtrQtr: NWNW Section: 8 Township: 10N Range: 57W Meridian: 6
9. Field Name: DJ HORIZONTAL CARL-CODL- Field Code: 16946

Completed Interval

FORMATION: CARLILE Status: PRODUCING Treatment Type:

Treatment Date: End Date: Date of First Production this formation:

Perforations Top: 6597 Bottom: 12351 No. Holes: 90 Hole size: 3/8

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

Completed Depths: 6597'-6852' (80 shots); 12350'-12352' (10 shots)

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

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

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): Number of staged intervals:

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

Fresh water used in treatment (bbl): 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:

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.

FORMATION: CARLILE-CODELL-FORT HAYS Status: COMMINGLED Treatment Type: FRACTURE STIMULATION

Treatment Date: 06/21/2017 End Date: 06/30/2017 Date of First Production this formation: 08/26/2017

Perforations Top: 6454 Bottom: 16195 No. Holes: 2601 Hole size: 3/8

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

65 Stage Plug & Perf, 1201287 lbs 100 Mesh , 5016486lbs 30/50 Prem White sand, 762 bbls 15% HCl, 261057 bbls slickwater

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

Total fluid used in treatment (bbl): 261819 Max pressure during treatment (psi): 7520

Total gas used in treatment (mcf): 0 Fluid density at initial fracture (lbs/gal): 8.33

Type of gas used in treatment: Min frac gradient (psi/ft): 0.80

Total acid used in treatment (bbl): 762 Number of staged intervals: 65

Recycled water used in treatment (bbl): 0 Flowback volume recovered (bbl): 18152

Fresh water used in treatment (bbl): 261057 Disposition method for flowback: DISPOSAL

Total proppant used (lbs): 6217773 Rule 805 green completion techniques were utilized: ☒

Reason why green completion not utilized:

Fracture stimulations must be reported on FracFocus.org

Test Information:

Date: 09/12/2017 Hours: 24 Bbl oil: 128 Mcf Gas: 99 Bbl H2O: 459

Calculated 24 hour rate: Bbl oil: 128 Mcf Gas: 99 Bbl H2O: 459 GOR: 773

Test Method: Separator Casing PSI: 0 Tubing PSI: 400 Choke Size: 16/64

Gas Disposition: SOLD Gas Type: DRY Btu Gas: 1440 API Gravity Oil: 36

Tubing Size: 3 Tubing Setting Depth: 6039 Tbg setting date: 08/20/2017 Packer Depth: 6029

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.

FORMATION: CODELL Status: PRODUCING Treatment Type:

Treatment Date: End Date: Date of First Production this formation:

Perforations Top: 6454 Bottom: 16046 No. Holes: 2250 Hole size: 3/8

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

Completed Depths: 6454'-6536' (40 shots); 6893'-8482' (440 shots);8817'-9152' (100 shots); 9210'-12152' (790 shots); 12380'-12687' (90 shots); 12798'-13857' (290 shots);14175'-16046' (500 shots)

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

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

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): Number of staged intervals:

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

Fresh water used in treatment (bbl): 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:

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.

FORMATION: FORT HAYS Status: PRODUCING Treatment Type:

Treatment Date: End Date: Date of First Production this formation:

Perforations Top: 8521 Bottom: 16195 No. Holes: 261 Hole size: 3/8

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

Completed Depths: 8521'-8754' (80 shots); 9180'-9182' (10 shots);12170'-12309' (40 shots);12722'-12762' (20 shots); 13893'-14159' (80 shots); 16094'-16195' (31 shots)

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

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

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): Number of staged intervals:

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

Fresh water used in treatment (bbl): 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:

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:

Top of producing zone corrected to 743 FNL 790 FWL based on top perforation at 6454'.
Replace pound signs in frac desciption with pound abbreviation
Updated choke to 16/64, Casing PSI to 0.
Updated shot size to 3/8
COGCC shows produced 2 days in August. Update Date of First Production to 8/30/2017.
Updated field to DJ HORIZONTAL-CARL-CODL-FT HAYES
Submitted Form 4 to add Carlile and Fort Hays Formations. Found Order 535-658 which added Codell. Order updated 535-745
Changed open hole completion tab on the Codell formation tab from yes to no as per comments
Changed formation status from commingled to producing for the Carlile, Codell, and Fort Hayes formation tabs per comments
Changed formation status of the Carlile-Codell-Fort Hayes formation tab to from producing to commingled

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

Signed: Print Name: Pauleen Tobin

Title: Engineer Tech Date: Email: pollyt@whiting.com

Attachment Check List

Att Doc Num	Name
401453709	WELLBORE DIAGRAM

Total Attach: 1 Files

General Comments

User Group	Comment	Comment Date
Engineering Tech	Returned to DRAFT for review and repair per agreement with operator. Deficiencies previously acknowledged in prior requests.	06/30/2020
Permit	Corrected field name. Formation was permitted for the Niobrara, but completed in the Carlile, Codell, and Fort Hayes.	02/27/2020
Permit	Changed open hole completion tab on the Codell formation tab from yes to no as per documents Changed formation status from commingled to producing for the Carlile, Codell, and Fort Hayes formation tabs Changed formation status of the Carlile-Codell-Fort Hayes formation tab to from producing to commingled	06/06/2018

Total: 3 comment(s)