

FORM
5ARev
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



DE ET OE ES

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: 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 05-123-43930-00
 6. County: WELD
 7. Well Name: Razor
 Well Number: 261-2347
 8. Location: QtrQtr: NESE Section: 26 Township: 10N Range: 58W Meridian: 6
 9. Field Name: DJ HORIZONTAL CODELL-FORT Field Code: 16949

Completed Interval

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

Treatment Date: 07/22/2017 End Date: 07/28/2017 Date of First Production this formation: 10/19/2017

Perforations Top: 6232 Bottom: 13808 No. Holes: 910 Hole size: 3/8

Provide a brief summary of the formation treatment:

Open Hole: ☐

30 Stage Plug & Perf and Hydraulic Sleeve, 1005220 lbs 100 Mesh, 4155000 lbs 30/50 Prem White sand, 12 bbls 15% HCl, 193093 bbls slickwater

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

Total fluid used in treatment (bbl): 193105

Max pressure during treatment (psi): 8162

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): 12

Number of staged intervals: 30

Recycled water used in treatment (bbl): 0

Flowback volume recovered (bbl): 3879

Fresh water used in treatment (bbl): 193093

Disposition method for flowback: DISPOSAL

Total proppant used (lbs): 5160220

Rule 805 green completion techniques were utilized: ☒

Reason why green completion not utilized:

Fracture stimulations must be reported on FracFocus.org

Test Information:

Date: 11/27/2017 Hours: 24 Bbl oil: 58 Mcf Gas: 20 Bbl H2O: 384
 Calculated 24 hour rate: Bbl oil: 58 Mcf Gas: 20 Bbl H2O: 384 GOR: 345
 Test Method: Separator Casing PSI: 850 Tubing PSI: 300 Choke Size: 24/64
 Gas Disposition: SOLD Gas Type: DRY Btu Gas: 1437 API Gravity Oil: 38
 Tubing Size: 3 Tubing Setting Depth: 5728 Tbg setting date: 09/24/2017 Packer Depth: 5719

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: <u>CODELL</u>		Status: <u>PRODUCING</u>		Treatment Type: _____	
Treatment Date: _____		End Date: _____		Date of First Production this formation: <u>10/19/2017</u>	
Perforations	Top: <u>6232</u>	Bottom: <u>13808</u>	No. Holes: <u>650</u>	Hole size: _____	
Provide a brief summary of the formation treatment:			Open Hole: <input type="checkbox"/>		
Completed Depths: 6232'-7338' (130 shots); 7612'-7798' (30 shots); 8145'-8645' (70 shots); 9307'-9392' (20 shots); 10137'-12214' (260 shots); 12793'-13808' (140 shots)					
This formation is commingled with another formation: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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: <input type="checkbox"/>			
Reason why green completion not utilized: _____					
Fracture stimulations must be reported on FracFocus.org					
<u>Test Information:</u>					
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: <div style="border: 1px solid black; height: 20px; width: 100%;"></div>					
Date formation Abandoned: _____	Squeeze: <input type="checkbox"/> Yes <input type="checkbox"/> 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: 10/19/2017
Perforations Top: 7528 Bottom: 12712 No. Holes: 260 Hole size: _____
Provide a brief summary of the formation treatment: _____ Open Hole: ☐

Completed Depths: 7428'-7522' (20 shots); 7900'-8070' (30 shots); 8726'-9226' (70 shots); 9473'-10056' (80 shots); 12295'-12712' (60 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 2489 FNL 775 FEL based on top perforation at 6232'.

Update to order 535-314 adding Ft Hays is pending

Removed pound signs from frac description

Corrected proppant type

Corrected frac Job start date

Corrected Packer Depth

Corrected Codell-Fort Hayes in formation tab from producing to commingled and commingled with another formation to Yes

Corrected Codell and Fort Hayes in formation tab from commingled to producing and commingled with another formation to No

Added 1st prod date on individual producing panels

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

401484383 WELLBORE DIAGRAM

Total Attach: 1 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Engineering Tech	Returned to DRAFT for review and repair per agreement with operator. Deficiencies previously acknowledged in prior requests.	06/30/2020
Permit	Changed the formation status of the Codell-Fort Hayes formation tab from producing to commingled	06/12/2018

Total: 2 comment(s)