


<b>FORM 5A</b> Rev 06/12	<b>State of Colorado</b> <b>Oil and Gas Conservation Commission</b> 1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:25%;">DE</td> <td style="width:25%;">ET</td> <td style="width:25%;">OE</td> <td style="width:25%;">ES</td> </tr> </table>	DE	ET	OE	ES
DE	ET	OE	ES				
<b>COMPLETED INTERVAL REPORT</b>			Document Number: 401468309  Date Received:				
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>96155</u> 2. Name of Operator: <u>WHITING OIL &amp; GAS CORPORATION</u> 3. Address: <u>1700 BROADWAY STE 2300</u> City: <u>DENVER</u> State: <u>CO</u> Zip: <u>80290</u>	4. Contact Name: <u>Pauleen Tobin</u> Phone: <u>(303) 837-1661</u> Fax: _____ Email: <u>pollyt@whiting.com</u>
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5. API Number <u>05-123-42848-00</u> 7. Well Name: <u>Horsetail</u> 8. Location: QtrQtr: <u>NENW</u> Section: <u>8</u> Township: <u>10N</u> Range: <u>57W</u> Meridian: <u>6</u> 9. Field Name: <u>DJ HORIZONTAL NIOBRARA</u> Field Code: <u>16950</u>	6. County: <u>WELD</u> Well Number: <u>08C-1739</u>
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**Completed Interval**

FORMATION: <u>CODELL</u>	Status: <u>COMMINGLED</u>	Treatment Type: _____
Treatment Date: _____	End Date: _____	Date of First Production this formation: _____
Perforations Top: <u>6446</u>	Bottom: <u>16098</u>	No. Holes: <u>1661</u> Hole size: _____
Provide a brief summary of the formation treatment:		Open Hole: <input type="checkbox"/>
Completed Depths: 6446'-7536' (280 shots); 8210'-8702' (160 shots); 8828'-9591' (220 shots); 9790'-9913' (40 shots); 10196'-10372' (60 shots); 10807'-11431' (180 shots); 12313'-12451' (50 shots); 13169'-15142' (550 shots); 15636'-16098' (121 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: <input type="checkbox"/>

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: <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: COMMINGLED Treatment Type: \_\_\_\_\_

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

Perforations Top: 7624 Bottom: 15588 No. Holes: 900 Hole size: \_\_\_\_\_

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

Completed Depths: 7624'-8152' (160 shots); 8761'-8802' (30 shots); 9632'-9755' (40 shots); 9952'-10036' (30 shots); 10403'-10773' (110 shots); 11468'-12285' (250 shots); 12484'-13112' (200 shots); 15276'-15588' (80 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: NIOBRARA-FT HAYS-CODELL Status: PRODUCING Treatment Type: FRACTURE STIMULATION

Treatment Date: 07/01/2017 End Date: 07/14/2017 Date of First Production this formation: 09/11/2017

Perforations Top: 6446 Bottom: 16098 No. Holes: 2601 Hole size: 3/8

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

65 Stage Plug & Perf, 1154273# 100 Mesh , 5184858# 40/70 Prem White sand, 768 bbls 15% HCl, 258234 bbls slickwater

This formation is commingled with another formation:  Yes  No

Total fluid used in treatment (bbl): 259002 Max pressure during treatment (psi): 7734

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): 768 Number of staged intervals: 65

Recycled water used in treatment (bbl): 0 Flowback volume recovered (bbl): 10491

Fresh water used in treatment (bbl): 258234 Disposition method for flowback: DISPOSAL

Total proppant used (lbs): 6339131 Rule 805 green completion techniques were utilized:

Reason why green completion not utilized:

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

**Test Information:**

Date: 09/18/2017 Hours: 24 Bbl oil: 84 Mcf Gas: 18 Bbl H2O: 1151

Calculated 24 hour rate: Bbl oil: 84 Mcf Gas: 18 Bbl H2O: 1151 GOR: 214

Test Method: Separator Casing PSI: 200 Tubing PSI: 700 Choke Size:

Gas Disposition: SOLD Gas Type: DRY Btu Gas: 1469 API Gravity Oil: 36

Tubing Size: 3 Tubing Setting Depth: 5953 Tbg setting date: 09/06/2017 Packer Depth: 5944

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: NIOBRARA Status: COMMINGLED Treatment Type: \_\_\_\_\_

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

Perforations Top: 10118 Bottom: 15180 No. Holes: 40 Hole size: \_\_\_\_\_

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

Completed Depths: 10118'-10168' (30 shots); 15178'-15180' (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.

Comment: \_\_\_\_\_  
Top of producing zone corrected to 782 FNL 2122 FWL based on top perforation at 6446'.

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
401469101	WELLBORE DIAGRAM

Total Attach: 1 Files

**General Comments**

User Group	Comment	Comment Date
		Stamp Upon Approval

Total: 0 comment(s)