

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:

401211437

Date Received:

03/01/2017

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: 47120
2. Name of Operator: KERR MCGEE OIL & GAS ONSHORE LP
3. Address: P O BOX 173779
City: DENVER State: CO Zip: 80217-
4. Contact Name: ILA BEALE
Phone: (720) 929-6408
Fax:
Email: ila.beale@anadarko.com

5. API Number 05-123-41483-00
6. County: WELD
7. Well Name: FEHRN
Well Number: 37C-32HZ
8. Location: QtrQtr: NENE Section: 32 Township: 2N Range: 66W Meridian: 6
9. Field Name: WATTENBERG Field Code: 90750

Completed Interval

FORMATION: CODELL Status: COMMINGLED Treatment Type:

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

Perforations Top: 7955 Bottom: 12899 No. Holes: 264 Hole size: 0.46

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

CODELL: 7955-8597; 9830-12,899;

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: COMMINGLED		Treatment Type: _____	
Treatment Date: _____		End Date: _____		Date of First Production this formation: _____	
Perforations	Top: 8597	Bottom: 9830	No. Holes: 264	Hole size: 0.46	

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

FT HAYS: 8597-8802; 9171-9830;

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: ☐ 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: 01/03/2017		End Date: 01/06/2017		Date of First Production this formation: 02/02/2017	
Perforations	Top: 7955	Bottom: 12899	No. Holes: 264	Hole size: 0.46	
Provide a brief summary of the formation treatment:			Open Hole: <input type="checkbox"/>		
PERF AND FRAC FROM 7955-12,899. 57 BBL 7.5% HCL ACID, 82,106 BBL SLICKWATER, 2,385 BBL WATER, - 84,548 BBL TOTAL FLUID 2,446,266# 40/70 OTTAWA/ST. PETERS, - 2,446,266# TOTAL SAND.					
This formation is commingled with another formation:			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Total fluid used in treatment (bbl): 84548		Max pressure during treatment (psi): 7534			
Total gas used in treatment (mcf): 0		Fluid density at initial fracture (lbs/gal): 8.30			
Type of gas used in treatment:		Min frac gradient (psi/ft): 0.78			
Total acid used in treatment (bbl): 57		Number of staged intervals: 13			
Recycled water used in treatment (bbl): 750		Flowback volume recovered (bbl): 5428			
Fresh water used in treatment (bbl): 83741		Disposition method for flowback: RECYCLE			
Total proppant used (lbs): 2446266		Rule 805 green completion techniques were utilized: <input checked="" type="checkbox"/>			
Reason why green completion not utilized: _____					
Fracture stimulations must be reported on FracFocus.org					
<u>Test Information:</u>					
Date: 02/14/2017	Hours: 24	Bbl oil: 128	Mcf Gas: 48	Bbl H2O: 233	
Calculated 24 hour rate:	Bbl oil: 128	Mcf Gas: 48	Bbl H2O: 233	GOR: 375	
Test Method: FLOWING	Casing PSI: 1700	Tubing PSI:	Choke Size: 14		
Gas Disposition: SOLD	Gas Type: WET	Btu Gas: 1309	API Gravity Oil: 53		
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: NIOBRARA Status: COMMINGLED Treatment Type: _____
Treatment Date: _____ End Date: _____ Date of First Production this formation: _____
Perforations Top: 8802 Bottom: 9171 No. Holes: 264 Hole size: 0.46
Provide a brief summary of the formation treatment: _____ Open Hole: ☐

NIOBRARA: 8802-9171;

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:

THIS WELL HAD A DELAYED COMPLETION. THE TPZ FOOTAGES ON FORM 5 SHOULD BE REVISED TO 166 FNL; 1023 FEL IS CORRECT.

SEE ATTACHMENT FOR COPY OF WELL PATH THROUGH FORMATIONS.

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

Signed: _____ Print Name: ILA BEALE
Title: STAFF REG. SPECIALIST Date: 3/1/2017 Email: ila.beale@anadarko.com

Attachment Check List

Att Doc Num	Name
401211437	FORM 5A SUBMITTED
401211459	OTHER

Total Attach: 2 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Form 5A, Doc #401211437 has been approved for CODL	09/27/2017

Total: 1 comment(s)