

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



DE	ET	OE	ES
----	----	----	----

Document Number:

400321879

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: 46290
2. Name of Operator: K P KAUFFMAN COMPANY INC
3. Address: 1675 BROADWAY, STE 2800
City: DENVER State: CO Zip: 80202
4. Contact Name: Susana Lara-Mesa
Phone: (303) 825-4822
Fax: (303) 825-4825

5. API Number 05-123-32762-00
6. County: WELD
7. Well Name: Front Range
Well Number: #11-17-7
8. Location: QtrQtr: NESW Section: 17 Township: 4N Range: 66W Meridian: 6
9. Field Name: WATTENBERG Field Code: 90750

Completed Interval

FORMATION: <u>CODELL</u>		Status: <u>COMMINGLED</u>		Treatment Type: <u>FRACTURE STIMULATION</u>	
Treatment Date: <u>08/24/2012</u>		End Date: <u>08/24/2012</u>		Date of First Production this formation: <u>09/05/2012</u>	
Perforations	Top: <u>7561</u>	Bottom: <u>7578</u>	No. Holes: <u>51</u>	Hole size: <u>3/7</u>	

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

Break 3415 psi at 8.2 bpm
 Max 5087 psi, 50.5 bpm
 Average 4414 psi, 43.4 bpm
 Load to recover 138695 gal

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

Total fluid used in treatment (bbl): <u>3053</u>	Max pressure during treatment (psi): <u>5087</u>
Total gas used in treatment (mcf): _____	Fluid density at initial fracture (lbs/gal): _____
Type of gas used in treatment: _____	Max frac gradient (psi/ft): <u>0.89</u>
Total acid used in treatment (bbl): <u>24</u>	Number of staged intervals: <u>1</u>
Recycled water used in treatment (bbl): _____	Flowback volume recovered (bbl): _____
Fresh water used in treatment (bbl): <u>3302</u>	Disposition method for flowback: <u>DISPOSAL</u>
Total proppant used (lbs): <u>246656</u>	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-CODELL Status: PRODUCING Treatment Type: FRACTURE STIMULATION

Treatment Date: 08/20/2012 End Date: 08/24/2012 Date of First Production this formation: 09/05/2012

Perforations Top: 7231 Bottom: 7578 No. Holes: 171 Hole size: 3/7

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

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: _____ Max 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: 09/05/2012 Hours: 24 Bbl oil: 16 Mcf Gas: 210 Bbl H2O: 0

Calculated 24 hour rate: Bbl oil: 16 Mcf Gas: 210 Bbl H2O: 0 GOR: _____

Test Method: FLOWING Casing PSI: 1850 Tubing PSI: 0 Choke Size: _____

Gas Disposition: SOLD Gas Type: DRY Btu Gas: 1395 API Gravity Oil: 59

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 Status: COMMINGLED Treatment Type: FRACTURE STIMULATION

Treatment Date: 08/24/2012 End Date: 08/24/2012 Date of First Production this formation: 09/05/2012
Perforations Top: 7231 Bottom: 7445 No. Holes: 120 Hole size: 3/7

Provide a brief summary of the formation treatment:

Open Hole: ☐

Niobrara A-Bench Frac

Open well 2832 psi begin active prepad formation break 3795 psi at 7.8 bpm
ISIP 3340 psi 1 min 3240 psi 4 min 3113 psi 227 psi leakoff begin FR water
at 55349 psi at 38.3 bpm begin pHaser frac pad at 5116 psi at 60.3 bpm
begin 1.0 ppg 30/50 at 5013 psi at 60.3 bpm at perfs at 5014 psi at 60.3 bpm
begin 2.0 ppg at 4852 psi at 60.2 bpm 2.0 ppg at perfs at 4721 psi at 60.3 bpm
begin 3.0 ppg at 4790 psi at 60.2 bpm 3.0 ppg at perfs at 4680 psi at 60.2 bpm
begin 4.0 ppg at 4667 psi at 60.2 bpm 4.0 ppg at perfs at 4642 psi at 60.2 bpm
begin 4.0 ppg CRC 20/40 at 4649 psi at 60.2 bpm flush with 119 bbls FR water
ISIP 3580 psi 5 min 3357 psi 10 min 3335 psi shut wwell in .

Niobrara B & C -Bench FRACS

Open well 2997 psi formation break 3828 psi at 1.8 bpm pump Active prepad
begin ISIP Analysis ISIP 3380 psi 1 min 3318 psi 4 min 3230 psi 150 psi leakoff
begin FR water pad at 4563 psi at 28.3 bpm pHaser frac pad at 5336 psi
at 60.3 bpm begin 1.0 ppg 30/50 5169 psi at 60.4 bpm 1.0 ppg at perfs at 5167
psi at 60.4 bpm begin 2.0 ppg at 5009 psi at 60.4 bpm 2.0 ppg at perfs at 4787
psi at 57.6 bpm begin 3.0 ppg at 4923 psi at 60.2 bpm 3.0 ppg at perfs at
4970 psi at 60.4 bpm begin 4.0 ppg at 4934 psi at 60.4 bpm 4.0 ppg at perfs at
4911psi at 60.5 bpm begin 4.0 ppg CRC 20/40 at 4924 psi at 60.5 bpm pump 10
bbl FR pad 24 bbls 15% HCl acid flush 119 bbls FR water ISIP 3535 psi 5 min
3220 psi 10 min 3188 psi shut well in.

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

Total fluid used in treatment (bbl): 6218

Max pressure during treatment (psi): 5568

Total gas used in treatment (mcf):

Fluid density at initial fracture (lbs/gal):

Type of gas used in treatment:

Max frac gradient (psi/ft): 0.86

Total acid used in treatment (bbl): 24

Number of staged intervals: 2

Recycled water used in treatment (bbl):

Flowback volume recovered (bbl):

Fresh water used in treatment (bbl): 2934

Disposition method for flowback: DISPOSAL

Total proppant used (lbs): 294552

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:

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

Signed: Print Name: Susana Lara-Mesa

Title: Engineering Project Mgr

Date: _____

Email slaramesa@kpk.com

:

Attachment Check List

Att Doc Num	Name
400324582	WELLBORE DIAGRAM

Total Attach: 1 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>

Total: 0 comment(s)