

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:

400321881

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 05-123-32755-00  
6. County: WELD  
7. Well Name: Front Range  
Well Number: #11-17-8  
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>08/23/2012</u>		End Date: <u>08/23/2012</u>		Date of First Production this formation: <u>09/05/2012</u>	
Perforations	Top: <u>7950</u>	Bottom: <u>7965</u>	No. Holes: <u>45</u>	Hole size: <u>3/7</u>	

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

MIRU Halliburton open well 33 psi start active pad formation break at 3516 psi 3.0 bpm FR water pad at 3685 psi at 10.3 bpm begin ISIP Analysis at 5005 psi 23.6 bpm ISIP 3437 psi 1min 3039 psi 4 min 2481 psi 956 psi leakoff begin FR water 0.25 ppg 30/50 at 4967 psi at 41.4 bpm 0.25 at top of perfs at 5006 psi at 41.4 bpm begin FR water 0.75 ppg 30/50 at 4944 psi at 41.4 bpm 0.75 at top of perfs at 4907 psi at 41.3 bpm press increase cut sand sweep well begin FR water 1.25 ppg 30/50 at 5260 psi at 36.0 bpm 1.25 ppg at top of perfs at 4981 psi at 36 bpm cut sand for sweep at 5355 psi 35.9 bpm proppant re-entering formation after well sweep at 5409 psi at 44.9 bpm cut sand for well sweep at 5711 psi at 44.7 bpm proppant re- entering formation after sweep at 5891 psi at 48.5 bpm horse power kick out for high press at 6300 psi screen out suspend job tried to flow well bore capacity would not shut well in.

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

Total fluid used in treatment (bbl): <u>3966</u>	Max pressure during treatment (psi): <u>6992</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>0.00</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>3890</u>	Disposition method for flowback: <u>DISPOSAL</u>
Total proppant used (lbs): <u>86727</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: 08/23/2012 End Date: 08/29/2012 Date of First Production this formation: 09/05/2012

Perforations Top: 7694 Bottom: 7965 No. Holes: 117 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](http://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: 1325 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: 08/29/2012 End Date: 08/29/2012 Date of First Production this formation: 09/05/2012  
Perforations Top: 7694 Bottom: 7838 No. Holes: 72 Hole size: 3/7

Provide a brief summary of the formation treatment:

Open Hole: ☐

MIRU Halliburton call for Max press 7000 psi kickouts 7000 psi  
Open well 1630 psi break formation 4399 psi pump 10 bbl pad  
24 bbls 15 % HCl 60 bbl active pad 60 bbl FR pad isip 3766 psi 1 min 3686 psi  
4 min 3627 psi leakoff 139 psi resume FR water at 5651 psi at 60.4 bpm  
begin 1.0 ppg 30/50 at 5744 psi at 58.0 bpm 1.0 ppg at perfs at 5528 psi  
at 56.3 bpm begin 2.0 ppg 30/50 at 5685 psi at 57.9 bpm 2.0 ppg at perfs  
at 5694 psi at 55.4 bpm begin 3.0 ppg 30/50 at 5213 psi at 51.7 bpm  
3.0 ppg at perfs at 5202 psi at 51.7 bpm begin 4.0 ppg 30/50 at 4873 psi  
at 51.5 bpm 4.0 ppg at perfs at 4827 psi at 51.3 bpm begin 4.0 ppg  
CRC at 4739 psi at 50.7 bpm flush 126 bbl FR water ISIP 3743 psi 5 min  
3355 psi 10 min 3315 psi avg press 5391 psi rate 51.5 bpm max press  
5900 psi rate 60.6 bpm pumped 242,900 # 30/50 ottawa 8000 # crc 20/40.  
LOAD TO RECOVER 4,349.7 BBLS

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

Total fluid used in treatment (bbl): 4214

Max pressure during treatment (psi): 5900

Total gas used in treatment (mcf):

Fluid density at initial fracture (lbs/gal):

Type of gas used in treatment:

Max frac gradient (psi/ft): 3766.00

Total acid used in treatment (bbl): 24

Number of staged intervals: 1

Recycled water used in treatment (bbl):

Flowback volume recovered (bbl):

Fresh water used in treatment (bbl): 1577

Disposition method for flowback: DISPOSAL

Total proppant used (lbs): 251720

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
400324583	WELLBORE DIAGRAM

Total Attach: 1 Files

### General Comments

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

Total: 0 comment(s)