



FORMATION: CODELL Status: COMMINGLED Treatment Type: FRACTURE STIMULATION

Treatment Date: 04/06/2012 End Date: 04/06/2012 Date of First Production this formation: \_\_\_\_\_  
Perforations Top: 7407 Bottom: 7427 No. Holes: 60 Hole size: 3/7

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

Formation break 3010 psi and 2.1 bpm. ISIP 2896 psi, 1 min 2777 psi, 4 min 2582 psi, leakoff 195 psi.  
FR water pad 2571 psi @ 50.7 bpm.  
0.25-0.75 ppg Ottawa 30/50 sand at 4052 psi at 50.6 bpm.  
0.75-1.25 ppg Ottawa 30/50 sand at 4045 psi at 51.09 bpm  
1.25-1.50 ppg Ottawa 30/50 sand at 4101 psi at 52.08 bpm  
1.50-1.75 ppg Ottawa 30/50 sand at 4215 psi at 52.6 bpm  
Flush at 3504 psi at 38.6 bpm with 15 % HCL acid  
ISIP 3234 psi, 5 min 3144 psi, 10 min 3117 psi  
Pumped 4690 bbls FR Water and 143409 lb of sand

This formation is commingled with another formation:  Yes  No

Total fluid used in treatment (bbl): 4858 Max pressure during treatment (psi): 5063  
Total gas used in treatment (mcf): \_\_\_\_\_ Fluid density at initial fracture (lbs/gal): \_\_\_\_\_  
Type of gas used in treatment: \_\_\_\_\_ Max frac gradient (psi/ft): 0.87  
Total acid used in treatment (bbl): 0 Number of staged intervals: 1  
Recycled water used in treatment (bbl): \_\_\_\_\_ Flowback volume recovered (bbl): 1000  
Fresh water used in treatment (bbl): 3890 Disposition method for flowback: DISPOSAL  
Total proppant used (lbs): 152220 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: NIORARA-CODELL Status: PRODUCING Treatment Type: FRACTURE STIMULATION

Treatment Date: \_\_\_\_\_ End Date: \_\_\_\_\_ Date of First Production this formation: 04/19/2012

Perforations Top: 7122 Bottom: 7427 No. Holes: 132 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: 04/21/2012 Hours: 24 Bbl oil: 26 Mcf Gas: 53 Bbl H2O: 2

Calculated 24 hour rate: Bbl oil: 26 Mcf Gas: 53 Bbl H2O: 2 GOR: \_\_\_\_\_

Test Method: Flow Casing PSI: 500 Tubing PSI: \_\_\_\_\_ Choke Size: \_\_\_\_\_

Gas Disposition: SOLD Gas Type: DRY Btu Gas: 1316 API Gravity Oil: 50

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: 04/06/2012 End Date: 04/06/2012 Date of First Production this formation: \_\_\_\_\_  
Perforations Top: 7122 Bottom: 7284 No. Holes: 24 Hole size: 3/7

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

Formation break at 3271 psi at 1.8 bpm. ISIP 3287 psi, 1 min 3212 psi, 5 min 3161 psi  
0.25-0.75 ppg Ottawa sand 4091 psi at 51.3 bpm  
0.75-1.25 ppg Ottawa 30/50 sand at 4030 psi 51.3 bpm  
1.25-1.50 ppg Ottawa 30/50 sand at 4039 psi 51.3 bpm  
1.50-1.75 ppg Ottawa 30/50 sand at 4084 psi 51.3 bpm  
Shut down. ISIP 3378 psi, 5 min 3247 psi, 10 min 3235 psi  
Pumped 5634 bbls FR Water and 188083 lb of sand

This formation is commingled with another formation:  Yes  No

Total fluid used in treatment (bbl): 5634 Max pressure during treatment (psi): 5047  
Total gas used in treatment (mcf): \_\_\_\_\_ Fluid density at initial fracture (lbs/gal): \_\_\_\_\_  
Type of gas used in treatment: \_\_\_\_\_ Max frac gradient (psi/ft): 0.90  
Total acid used in treatment (bbl): 1000 Number of staged intervals: 1  
Recycled water used in treatment (bbl): \_\_\_\_\_ Flowback volume recovered (bbl): 2500  
Fresh water used in treatment (bbl): 3890 Disposition method for flowback: DISPOSAL  
Total proppant used (lbs): 199800 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
400307683	WELLBORE DIAGRAM
400307685	CEMENT JOB SUMMARY

Total Attach: 2 Files

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