

FORMATION: CODELL Status: COMMINGLED Treatment Type: FRACTURE STIMULATION

Treatment Date: 08/23/2012 End Date: 08/23/2012 Date of First Production this formation: 09/05/2012
Perforations Top: 7950 Bottom: 7965 No. Holes: 45 Hole size: 3/7

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): 3966 Max pressure during treatment (psi): 6992
Total gas used in treatment (mcf): _____ Fluid density at initial fracture (lbs/gal): _____
Type of gas used in treatment: _____ Max frac gradient (psi/ft): 0.00
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): 3890 Disposition method for flowback: DISPOSAL
Total proppant used (lbs): 86727 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: 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

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)