RECEIVED

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

| Test Date: 1/23/2014 | Type Test | : | | | | (| (See Instruc | tions on Rev | verse Side | e) | | | |
|---|--|-----------------------------------|---|----------------------|---|---|--|---------------|------------------------------------|-----------|---|---------------------------------------|---|
| | Op | en Flow | | | | Toet Date | a· | | | ΔDI | No. 15 | | |
| Range County Location Chasse 1800' FSL & 1150' FVL 13 TVP | ✓ Del | liverabilt | y | | | | | | | | | 00-00 | |
| Chase | | | oany, In | IC. | | | | | Α | | | | Well Number |
| Lansing | | • | | | | | | ` , | | W) | Acres Attributed | | |
| 10.1112/002 | Field | | | | | | | | | | | | |
| 1301 | • | | | | | | k Total Dep | th | | Packer S | Set at | - | • |
| 2.375 | • | .5 | | | 15.0 | | Internal Diameter | | 1301 | | | | |
| Type Completion (Describe) Port Walter Producting Thru (Annulus / Tubing) % Carbon Dioxide % Nitrogen Gas Gravity - G _g tubing 0.058 14.31 0.688 14. | | | | Internal [| Diameter | | | | orations | То | | | |
| Producing Thru (Annulus / Tubing) | Type Com | npletion | | | | • | d Productio | | | Pump Ui | nit or Traveling | Plunger? Yes | / No |
| Vertical Depth(H) | _ | Producing Thru (Annulus / Tubing) | | | | , | Carbon Diox | ide | | | | | |
| Pressure Buildup: Shut in 1/1 20 14 at 11:00 (AM) (PM) Taken 1/22 20 14 at 11:00 (AM) (PM) Taken 1/23 20 14 at 11:00 (AM) (PM) (PM) (PA) | | epth(H) | | | | 0.000 | | | | 17.01 | | | |
| Well on Line: Started 1/22 20 14 at 11:00 (AM) (PM) Taken 1/23 20 14 at 11:00 (AM) (PM) OBSERVED SURFACE DATA Duration of Shut-in | 1301 | | | | | | | | | | | | |
| Well on Line: Started 1/22 20 14 at 11:00 (AM) (PM) Taken 1/23 20 14 at 11:00 (AM) (PM) OBSERVED SURFACE DATA Duration of Shut-in | Pressure | Buildup: | Shut i | n 1/1 | 2 | 0_14_at_1 | 1:00 | (AM) (PM) | Taken 1/ | 22 | 20 | 14 _{at} 11:00 | (AM) (PM) |
| Static / Dynamic Size Property (Inches) Property paig (Pm) Inches H ₂ 0 Pressure Differential Inches H ₂ 0 Pressure Inches H ₂ 0 Pressure Inches H ₂ 0 Pressure Property Inches H ₂ 0 Pressure Pressure Pressure Property Inches H ₂ 0 Pressure Pr | Well on Li | ine: | Starte | d 1/22 | 2 | 0 14 at 1 | | | | | | | |
| State Orifice Orific | | | | | 1 - | | OBSERVE | T | | | 1 | Duration of Shut- | in Hours |
| Shut-In 0.375 60 60 110 100 24 one FLOW STREAM ATTRIBUTES Plate Coefficient (F _a) (F _a) Press Extension Factor F _{actor} F _{act} | Dynamic | Size | Prove | Meter er Pressure | Differential in | Temperature | Temperature | Wellhead f | Pressure) or (P _c) | Wellhe | ead Pressure or (P ₁) or (P _c) | | |
| FLOW STREAM ATTRIBUTES Plate Coefficient (F ₂)(F ₃) Meter or Prover Pressure psia (P ₂) ² = (P _w) | Shut-In | | | | - | | | | | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 528 | |
| Plate Coefficient (F _a) (F _c) (F _c) (Mcfd) Prover Pressure psia (P _c) ² = (P _c) ² - (P _c) ² (P _c) ² (P _c) ² (P _c) ² - (P _c) ² (P _c) ² - (P _c) ² (P _c) ² - (P _c) ² (P _c) ² - (P _c) ² (P _c) ² - (P _c) ² | Flow | 0.375 | | | | 60 | 60 | 110 | | 100 | | 24 | one |
| Coefficient (F _a)(F _c) Mcdd Prover Pressure psia Pinath Power Pressure psia Power Pressure psia Pinath Power Pressure psia Prover Pressure psia Pinath Prover Pressure Psia Psia Prover Pressure Psia Psia Psia Psia Psia Psia Psia Psia | | | | | | | FLOW STE | REAM ATTRI | BUTES | | | | |
| (P _c) ² = : (P _w) ² = : P _d = % (P _c - 14.4) + 14.4 = : (P _d) ² = Open Flow (P _c) ² - (P _d) ² (P _c) ² - (P _d) ² (P _c) ² - (P _d) ² (P _c) ² - (P _d) ² (P _c) ² - (P _d) ² (P _c) ² - (P _d) ² (P _c) ² - P _w | Coeffieci (F _b) (F | ent ,) | Meter or Prover Pressure | | Extension | Fac | tor Temperature Factor | | Fa | ctor | R | (Cubic Fe | et/ Fluid Gravity |
| (P _c) ² = : (P _w) ² = : P _d = % (P _c - 14.4) + 14.4 = : (P _d) ² = | | | | | | | | | | | 40 | | |
| (P _c)²- (P _a)² (P _c)²- (P _w)² (P _c)²- (P _c)² (P _c)² (P _c)²- (P _c)² (P _c)² (P _c)²- (P _c)² (P _c | (P _c) ² = | | : | (P,,,)2 = | : | • | | • | | | : | | |
| Open Flow Mcfd @ 14.65 psia Deliverability 40 Mcfd @ 14.65 psia The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct. Executed this the 27th day of January , 20 14 The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct. Executed this the 27th day of January , 20 14 | (P _c) ² - (F or (P _c) ² - (F | P _d) ² | (P _c) ² - (P _w) ² | | 1. P _c ² - P _a ² LOG of formula 2. P _c ² - P _d ² 1. or 2. and divide | | Backpressu Slope or P ² -P ² Assig | | ssure Curve e = "n" or | n x | LOG | | Open Flow Deliverability Equals R x Antilog |
| The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct. Executed this the 27th day of January , 20 14 | - W. H. & | | | | | | | | | | | | |
| The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct. Executed this the 27th day of January , 20 14 | Open Flow | ~ | | | Mcfd @ 14. | 65 psia | | Deliverabi | lity 40 | | | Mcfd @ 14.65 psi | a · |
| the facts stated therein, and that said report is true and correct. Executed this the | The u | ındersia | ned auth | ority, on h | pehalf of the | Company | states that h | ne is dulv au | thorized to | o make th | | | |
| , | | | | | | | | | | | | | _ |
| V | | | , | Witness (if ar | ny) | | · · · · | _ | | John | -m.) | | KCC WICH |
| For Commission Checked by | | | | | *********** | | | | <i>(</i> / | | | · · · · · · · · · · · · · · · · · · · | JAN 28 20 |

| | enalty of periury u | nder the laws o | of the state of Kansa | s that I am authorize | d to request |
|---|---------------------|---------------------------------------|------------------------|------------------------|---------------|
| | · | | ne operator Range C | | a to request |
| | | | | this application form | are true and |
| | | | | ion summaries and le | |
| | - | | | ade of the gas well he | |
| I hereby request a | a one-year exempti | on from open fi | ow testing for the Ro | oberts A #1 | |
| as well on the groun | | | | • | |
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| | a coalbed methane | | | | |
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| ✓ is | not capable of proc | , , , , , , , , , , , , , , , , , , , | , . | | |
| | | | • • | documents deemed l | by Commission |
| I further agree to | supply to the best | of my ability an | y and all supporting | | oy Commission |
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Instructions:

If a gas well meets one of the eligibility criteria set out in KCC regulation K.A.R. 82-3-304, the operator may complete the statement provided above in order to claim exempt status for the gas well.

At some point during the current calendar year, wellhead shut-in pressure shall have been measured after a minimum of 24 hours shut-in/buildup time and shall be reported on the front side of this form under **OBSERVED SURFACE DATA**. Shut-in pressure shall thereafter be reported yearly in the same manner for so long as the gas well continues to meet the eligibility criterion or until the claim of eligibility for exemption **IS** denied.

The G-2 form conveying the newest shut-in pressure reading shall be filed with the Wichita office no later than December 31 of the year for which it's intended to acquire exempt status for the subject well. The signed and dated on the front side as though it was a verified report of annual test results.

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