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KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

| Type Test | : | OIIL I | 0 | (| See Instruc | ctions on Re | verse Side |) | | | |
|--|-----------|---|--|---|--------------------|--|--|--|-----------------------------|--------------------------------|---|
| Ор | en Flow | | | Tact Date | s· | | | ΔDI | No. 15 | | |
| ✓ Deliverabilty Test Date: 5/21/2013 | | | | | | | 199-20354 - | 0 000 | | | |
| Company Raven Resources, LLC | | | | | Lease Westfield | | | | Well Number #4-31 | | |
| County Location Wallace County SW/4 SW/4 | | | | Section 31 | | TWP 11S | | | W) | , | Acres Attributed |
| Field | | | | Reservoi Niobrar | | | | Gas Gathering Connection Closed Gathering System (West Kansas Pipeline | | | ansas Pipeline) |
| Completion Date 8/2008 | | | | Plug Bac 1077' | k Total Dep | oth | | Packer S | et at | | |
| Casing Size Weight 4 1/2" 10.5 | | | Internal Diameter | | Set at 1092' | | Perforations 896' | | то 930' | | |
| Tubing Size Weight 2 3/8" 4.7 | | | | Internal I | Diameter | | Set at Perforations 912' | | rations | То | \sim |
| Type Completion (Describe) "Single Gas" | | | | Type Flui Only G | on | Pump Unit or Travelii No | | | | | |
| Producing Thru (Annulus// Jubing) Tubing | | | | % Carbon Dioxide | | | % Nitrogen | | | Gas Gravity - G _g | |
| Vertical Depth(H) 1100' | | | | Pressure Taps | | | | | | (Meter F .500 | Run) (Prover) Size |
| Pressure Buildup: Shut in 5/20 | | | 2 | 0 13 at 9 | :00 | . (AM) (PM) | (PM) Taken 5/2 | | 20 | 13 at 9:00 | (AM) (PM) |
| Well on L | ine: | Started 5/21 | 2 | 13 at 9 | :00 | (AM) (PM) | Taken 5/ | 22 | 20 | 13 at 9:00 | (AM) (PM) |
| | | | | | OBSERVI | ED SURFAC | E DATA | | | Duration of Shut-i | n_24Hours |
| Static / Dynamic Property | | | | Flowing Well Head Temperature t | | Casing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia | | Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c) psig psia | | Duration (Hours) | Liquid Produced (Barrels) |
| Shut-In | .250 | 19.3 | 0 | 97.2 | | 7 | psia | 7 | pola | 24 | 0 |
| Flow | .250 | 13.5 | 10.3 | 75 | | 2 | | 2 | | 24 | 0 |
| | | | | 1 | FLOW ST | REAM ATTE | RIBUTES | | | | |
| Plate Coefficient (F _b) (F _p) Mcfd | | Circle one: Meter or Prover Pressure psia | Press Extension P _m x h | Grav Fac | tor | Flowing Temperature Factor F _{ft} | | iation ctor : | Metered Flow R (Mcfd) | (Cubic Fee Barrel) | Flowing Fluid Gravity G _m |
| | | | | (OPEN FL | OW) (DELI) | /ERABILITY |) CALCUL | ATIONS | | 4= 10 | |
| (P _c) ² = | : | : (P _w) ² = | <u> </u> | P _d = | | | P _c - 14.4) + | | : | (P _a) ² | = 0.207 |
| (P _c) ² - (f or (P _c) ² - (f | - | (P _c) ² - (P _w) ² | cose formula 1 or 2. 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ ided by: $P_c^2 - P_a^2$ | LOG of formula 1. or 2. and divide P 2. | | Slo | essure Curve pe = "n" - or signed lard Slope | nxL | .og [] | Antilog | Open Flow Deliverability Equals R x Antilog (Mcfd) |
| | | | | | | | | | | | |
| Open Flor | | | Mcfd @ 14. | 65 neia | | Deliverat | nility | | | Mcfd @ 14.65 psi | a |
| The u | undersign | ned authority, on I | pehalf of the | Company, s | | he is duly a | uthorized to | make th | | | |
| | | Witness (if ar | ny) | | | - | A St. | M | For C | ompany | KCC WIC |
| - | | For Commiss | ion | | | - | | | Chec | ked by | JUL 29 2 |

| I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request exempt status under Rule K.A.R. 82-3-304 on behalf of the operator Raven Resources, LLC and that the foregoing pressure information and statements contained on this application form are true and correct to the best of my knowledge and belief based upon available production summaries and lease records of equipment installation and/or upon type of completion or upon use being made of the gas well herein named. I hereby request a one-year exemption from open flow testing for the Westfield 4-31 |
|--|
| gas well on the grounds that said well: |
| (Check one) is a coalbed methane producer is cycled on plunger lift due to water is a source of natural gas for injection into an oil reservoir undergoing ER is on vacuum at the present time; KCC approval Docket No is not capable of producing at a daily rate in excess of 250 mcf/D I further agree to supply to the best of my ability any and all supporting documents deemed by Commission staff as necessary to corroborate this claim for exemption from testing. |
| Date: 2/13 |
| Signature: A Title: A |

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.

JUL 29 2013

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