KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

| Type Test | t: | | | | (| See Instruc | tions on Rev | erse Side |) | | | | |
|---|--------------|------------|--|---|--|----------------------------------|--|---|-------------------------------|--|---|--|---|
| Open Flow | | | Toet Date | Test Date: API No. | | | | | - 62() 2 | _ | | | |
| ✓ Deliverabilty | | | | | 11/19/11 15 | | | | 199-20331 | -0000 |) | | |
| Company Raven F | | rces | , LLC | | | | Lease Westfield | | | | | Well Numb | er |
| County Location Wallace County C SE/4 | | | | Section 31 | | TWP RNG (E 11S 41W | | W) | Acres Attributed | | | | |
| Field | | | | | Reservoir Niobrara | | | Gas Gathering Connection Closed gathering system (West Kansas Pipeline) | | | | | |
| Completion Date 8/2008 | | | | | Plug Bac 1008' | k Total Dep | th | • | Packer S | Set at | | | <u></u> |
| Casing Size 4 1/2" | | | Weight 10.5 | | Internal Diameter | | Set at 1045' | | Perforations 844' | | то 878' | | |
| Tubing Size 2 3/8" | | | Weight 4.7 | | Internal Diameter | | Set at 837 ' | | Perforations | | То | | |
| Type Con "Single | | | escribe) | · | Type Flui Only G | d Production | n | | Pump Ui No | nit or Traveling | Plunger? Yes | /(No) | |
| Producing Thru (Annulus / Tubing) % Carbon Dioxide % Nitrogen Gas Gravity - Gg Tubing | | | | | | | | | | | | | |
| Vertical Depth(H) Pressure Taps (Meter Run) (Prover) SI 1056' .500" | | | | | | | | er) Size | | | | | |
| Pressure | Buildu | • | Shut in 11/ | | | | (AM) (PM) | | | | 11 at 12:00 I | • |)(PM) |
| Well on Line: Started 11/20 20 11 at 12:00 p.m. (AM) (PM) Taken 11/21 20 11 at 12:00 p.m. (AM) (PM) | | | | | | | 1) (M) | | | | | | |
| | · | | | | | OBSERVE | D SURFACE | DATA | | | Duration of Shut- | _24 in | Hours |
| Static / Orifice Dynamic Size Property (Inches) | | 8 | Circle one: Meter Prover Pressu psig (Pm) | Pressure Differential in Inches H ₂ 0 | Flowing Well Head Temperature t t | | Casing Wellhead Pressure (P _*) or (P _t) or (P _c) psig psia | | Wellhe (P _w) ∝ | Tubling ad Pressure r (P ₁) or (P ₆) | Ouration (Hours) | Liquid Produced (Barrels) | |
| Shut-In | Shut-In .500 | | 15.2 | 0 | | | | psia | psig 9 | psta | 24 | 0 | |
| Flow .500 | |) | 15.6 | 4 | | | 5 | | 5 | | 24 | 0 | |
| | | | | | | FLOW STR | REAM ATTRI | BUTES | | | 1 | | |
| Plate Coeffiecient (F _b) (F _p) Mcfd | | Pro | Circle one: Meter or over Pressure psia | Press Extension P _m x h | Grav Fact | Tomporatura | | Deviation Factor F _{pv} | | Metered Flow R (Mcfd) | y GOR (Cubic Fed Barrel) | et/ | Flowing Fluid Gravity G _m |
| | | | | | | | | | | | | | |
| (D)2 - | | | (P _w) ² = | | - | | 'ERABILITY) % (P_ | CALCUL. - 14.4) + | | • | (P _a) ² (P _d) | 2 = 0.207 | |
| (P _c) ² = | | <u>-</u> - | | Choose formula 1 or 2 | P _d = . : | | 1 | | 14.4 | · | (' d' | | |
| $(P_e)^2 - (P_e)^2$ or $(P_e)^2 - (P_d)^2$ | | (F | P _e) ² - (P _w) ² | 1. P _c ² - P _a ² 2. P _c ² - P _d ² tivided by: P _c ² - P _a ² | LOG of formula 1, or 2, and divide p2 p2 by: | | Backpressure Curve Slope = "n"or Assigned Standard Slope | | n x LOG | | Antilog | Open Flow Deliverability Equals R x Antilog ((Mcfd) | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Open Flow Mcfd @ 14.65 psia | | | | | Deliverabil | Deliverability Mcfd @ 14.65 psia | | | | | | | |
| | | • | • | behalf of the | | | | I Ha | make th | <i>,</i> 1 | rt and that he ha | s knowled | ge of |
| | | | | | | | | lan | 13 | Z | F | RECEIV | /ED |
| | | | Witness (ii | any) | | | 7 | | t | For C | Company D | EC 16 | 2011 |
| | | | For Comm | ission | | | | | | Chec | ked by | | |

KCC WICHITA

| I declare under penalty of perjury under the laws of the state of Kansas that I am au exempt status under Rule K.A.R. 82-3-304 on behalf of the operator Raven Resources, LL | • | | | | | | |
|--|----------------------|--|--|--|--|--|--|
| and that the foregoing pressure information and statements contained on this applicatio | | | | | | | |
| correct to the best of my knowledge and belief based upon available production summarie | s and lease records | | | | | | |
| of equipment installation and/or upon type of completion or upon use being made of the gas I hereby request a one-year exemption from open flow testing for the Westfield #2-31 | s well herein named. | | | | | | |
| 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 destaff as necessary to corroborate this claim for exemption from testing. Date: 12/14/2011 | eemed by Commission | | | | | | |
| Date | RECEIVED | | | | | | |
| | DEC 16 200 | | | | | | |
| Signature: | KCC WICHIT | | | | | | |
| Title: Managing Member | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

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 form must be signed and dated on the front side as though it was a verified report of annual test results.