KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

| Type Test | | | | | (| 'See Instruct | tions on Re | verse Side |)) | | | | |
|---|-------------|--|--|---|-------------------------------------|---------------------------------------|--|---------------------------------------|--|-----------------------------|----------------------------|-------------------------------|---|
| [] Op | en Flo | w 🏂 | ASI | | Test Date | _ | | | ADI | No. 15 | | | |
| Deliverability 9/8/11 | | | | | j. | API No. 15 181-20362-00 - OO | | | | | | | |
| Company | | sou | rces | • | | · · · · · · · · · · · · · · · · · · · | Lease Duell | - | | | 4-17 | Well N | umber |
| | | | | Section 17 | | | | RNG (E/W) 39W | | | Acres Attributed 80 | | |
| Fleid Goodlan | d | | | | Reservoir Niobrara | | | | Gas Gathering Connection Branch Systems Inc. | | | | |
| Completic 9-21-200 | | te | | | Plug Back Total Depth 1179' | | | | Packer S | Set at | | | |
| Casing Size Weight 2 7/8" 6.5# | | | <u> </u> | Internal (2.441 | Diameter | Set at 1189' | | Perforations 994' | | то 1020 | -· - | | |
| Tubing Si | ze | | Weigh | <u></u> : <u></u> - | Internal Diameter Set at | | | Perfo | rations | То | То | | |
| Type Con Single (| | | | | Type Flui | d Production | n | · · · · · · · · · · · · · · · · · · · | Pump Ur Flowin | nit or Traveling | Plunger? Yes | , / (No | , |
| Producing Annulus | - | (An | nulus / Tubing | <u> </u> | % Carbon Dioxida | | | | % Nitrog | jen | Gas G | Gas Gravity - G | |
| Vertical D | | H) | | | | Pres | sure Taps | | | | (Meter Run) (Prover) Size | | |
| 1020' | | • | | | | Flan | - | | | | 2" | | |
| Pressure | Buildu | ıb: | Shut in 9-7 | 2 | | | (AM) PM | Taken_9- | -8 | | 11 at 1:55 | | (AM(PM) |
| Well on L | ine: | | Started 9-8 | 2 | 0 11 at 1 | :55 | (AM)(PM) | Taken <u>9</u> - | .9 | 20 | 11 at 2:40 | | (AM) (PM) |
| | | | | | | OBSERVE | D SURFAC | E DATA | | | Duration of Shu | ıt-in <u>24</u> | Hours |
| Static / Dynamic Property | ynamic Size | | Circle one: Meter Prover Pressu | | Flowing Well Head Temperature | | Casing Wellhead Pressure (P _w) or (P _t) or (P _c) | | Tubing Wellhead Pressure (P _w) or (P ₁) or (P _a) | | Duration (Hours) | | ild Produced (Barrels) |
| Shut-In | - | | psig (Pm) | Inches H ₂ 0 | | · | psig 8 | psia 22.4 | psig | psia | | | |
| Flow | | | | | | | 4 | 18.4 | | | 24 | 0 | |
| • | | | | | | FLOW STR | EAM ATTR | RIBUTES | | • | | | |
| Plate Coeffiecient (F _b) (F _p) Motd | | Circle ons: Meter or Prover Pressure psia | | Press Extension P _m x h | Gravity Factor F _e | | Flowing Temperature Factor F _{tt} | emperature Factor F | | Metered Flow R (Mcfd) | W GOF (Cubic F Barre | Feet/ | Flowing Fluid Gravity G _m |
| | | | | | | | | | | 10 | | | |
| | | | | | (OPEN FL | OW) (DELIV | ERABILITY | /) CALCUL | ATIONS | | (P |) ² = 0.1 | |
| P _e)2 = | | _: | (P _w) ² = | <u> </u> | P _d = | | % (1 | P _c - 14.4) + | · 14.4 = | : | | _o) ² = | |
| (P _a) ² - (P _a) ² or | | (F | P _p) ² - (P _w) ² | 1. P ₂ - P ₂ 2. P ₂ - P ₂ | LOG of formula 1. or 2. | | Backpressure Curve Slope = "n" or Assigned | | n x LOG | | Antilog | De | pen Flow diverability is R x Antilog |
| (F _a) (r | | | | divided by: P2-P | and divide by: | P.*-P.* | | tard Slope | <u> </u> | | | - | (McId) |
| | | | | · | | | | | | | | + | |
| Open Flo | w | l | <u>l</u> | Mcfd @ 14. | 65 psla | · | Deliveral | bility | | | Mcfd @ 14.65 p | -l | |
| | | signe | d authority, or | | | states that h | · | | o make th | | ort and that he i | | vledge of |
| he facts s | tated ' | there | in, and that sa | ild report is true | and correc | t. Executed | this the _2 | 8 | day of D | ecember | 11 0 | , | 20 11 . |
| | | | , | | | | | | 70 | unul | l Ger | M |) |
| | | | Witness (i | any) | | | | | 1 | Fort | Company | F | RECEIVE |
| • | | | For Comm | Ission | - | | · | | | Che | cked by | A | PR 24 |

| exempt statu and that the correct to the of equipmen | under penalty of perjury under the laws of the state of Kansas that I am authorized to request s under Rule K.A.R. 82-3-304 on behalf of the operator Rosewood Resources, Inc. foregoing pressure information and statements contained on this application form are true and best of my knowledge and belief based upon available production summaries and lease records t installation and/or upon type of completion or upon use being made of the gas well herein named. |
|---|--|
| | request a one-year exemption from open flow testing for the |
| l further | 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 agree to supply to the best of my ability any and all supporting documents deemed by Commission essary to corroborate this claim for exemption from testing. |
| Date: <u>12/28</u> | <u>/11 </u> |
| | Signature: |

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.

RECEIVED

APR 2 4 2012

KCC WICHITA

W400
Duell 4-17
North Goodland
Goodland
None
September-11

| | Casing | | | H | RS | REMARKS |
|-----------|--------|--------|-----|----|-----|---------------------------------|
| DATE | PSI | STATIC | MCF | D | OWN | (Maximum length 110 characters) |
| 9/1/2011 | | 7 2 | :0 | 8 | 0 | |
| 9/2/2011 | | 8 2 | :1 | 5 | 12 | |
| 9/3/2011 | | 8 2 | 1 | 10 | 0 | |
| 9/4/2011 | | 7 2 | .0 | 10 | 0 | |
| 9/5/2011 | | 7 2 | .0 | 10 | 0 | |
| 9/6/2011 | | 6 1 | 9 | 11 | 0 | |
| 9/7/2011 | | 6 1 | 9 | 11 | 0 | shut in for test |
| 9/8/2011 | | 8 2 | 1 | 0 | 24 | opened up |
| 9/9/2011 | | 6 1 | 9 | 14 | 0 | cal |
| 9/10/2011 | | 4 1 | 7 | 10 | 0 | |
| 9/11/2011 | | 4 1 | 7 | 10 | 0 | |
| 9/12/2011 | | 4 1 | 7 | 10 | 0 | |
| 9/13/2011 | | 4 1 | 7 | 10 | 0 | |
| 9/14/2011 | | 3 1 | 6 | 10 | 0 | |
| 9/15/2011 | | 3 1 | 6 | 10 | 0 | |
| 9/16/2011 | | 3 1 | 6 | 9 | 0 | |
| 9/17/2011 | | 3 1 | 6 | 9 | 0 | |
| 9/18/2011 | | 3 1 | 6 | 9 | 0 | |
| 9/19/2011 | | 3 1 | 6 | 9 | 0 | |
| 9/20/2011 | | 3 1 | 6 | 9 | 0 | |
| 9/21/2011 | | 3 1 | 6 | 11 | 0 | |
| 9/22/2011 | | 4 1 | 7 | 6 | 2 | |
| 9/23/2011 | | 4 1 | 7 | 8 | 2.5 | |
| 9/24/2011 | | 4 1 | 7 | 5 | 15 | |
| 9/25/2011 | | 5 1 | 8 | 8 | 0 | |
| 9/26/2011 | | 5 1 | 8 | 9 | 0 | |
| 9/27/2011 | | 5 1 | 8 | 8 | 2 | |
| 9/28/2011 | | 4 1 | 7 | 10 | 0 | |
| 9/29/2011 | | 4 1 | 7 | 9 | 0 | |
| 9/30/2011 | | 4 1 | 7 | 9 | 2.5 | |
| 10/1/2011 | | 0 | 0 | 0 | 0 | |

Total 267

W400 Duell 4-17 February North Goodland Goodland

None

October-11

| | Casing | | | HRS | | REMARKS |
|------------|--------|--------|-----|------|---|---------------------------------|
| DATE | PSI | STATIC | MCF | DOWN | | (Maximum length 110 characters) |
| 10/1/2011 | | 3 | 16 | 11 | 0 | |
| 10/2/2011 | | 3 | 16 | 11 | 0 | |
| 10/3/2011 | | 3 | 16 | 10 | 0 | |
| 10/4/2011 | | 3 | 16 | 9 | 0 | |
| 10/5/2011 | | 3 | 16 | 10 | 0 | |
| 10/6/2011 | | 3 | 16 | 10 | 0 | |
| 10/7/2011 | | 3 | 16 | 10 | 0 | |
| 10/8/2011 | | 3 | 16 | 10 | 0 | |
| 10/9/2011 | | 2 | 15 | 10 | 0 | |
| 10/10/2011 | | 2 | 15 | 10 | 0 | |
| 10/11/2011 | | 2 | 15 | 10 | 0 | |
| 10/12/2011 | | 2 | 15 | 10 | 0 | |
| 10/13/2011 | | 2 | 15 | 10 | 0 | |
| 10/14/2011 | | 2 | 15 | 9 | 0 | |
| 10/15/2011 | | 2 | 15 | 9 | 0 | |
| 10/16/2011 | | 2 | 15 | 10 | 0 | |
| 10/17/2011 | | 2 | 15 | 9 | 0 | |
| 10/18/2011 | | 2 | 15 | 9 | 0 | |
| 10/19/2011 | | 2 | 15 | 9 | 0 | |
| 10/20/2011 | | 2 | 15 | 10 | 0 | |
| 10/21/2011 | | 2 | 15 | 8 | 2 | |
| 10/22/2011 | | 3 | 16 | 9 | 0 | |
| 10/23/2011 | | 3 | 16 | 9 | 0 | |
| 10/24/2011 | | 3 | 16 | 9 | 0 | |
| 10/25/2011 | | 4 | 17 | 5 | 2 | |
| 10/26/2011 | | 3 | 16 | 10 | 0 | |
| 10/27/2011 | | 3 | 16 | 9 | 0 | |
| 10/28/2011 | | 3 | 16 | 9 | 0 | |
| 10/29/2011 | | 3 | 16 | 9 | 0 | |
| 10/30/2011 | | 3 | 16 | 9 | 0 | |
| 10/31/2011 | | 3 | 16 | 9 | 0 | |

Total 291

W400
Duell 4-17. ...
North Goodland
Goodland
None
November-11

| • | Casing | | | HRS | | REMARKS |
|------------|--------|--------|-----|------|---|---------------------------------|
| DATE | PSI | STATIC | MCF | DOWN | | (Maximum length 110 characters) |
| 11/1/2011 | | 3 | 16 | 9 | 0 | |
| 11/2/2011 | | 3 | 16 | 9 | 0 | |
| 11/3/2011 | | 3 | 16 | 8 | 0 | |
| 11/4/2011 | | 3 | 16 | 9 | 0 | |
| 11/5/2011 | | 3 | 16 | 9 | 0 | |
| 11/6/2011 | | 2 | 15 | 9 | 0 | |
| 11/7/2011 | | 3 | 16 | 9 | 0 | |
| 11/8/2011 | | 3 | 16 | 9 | 0 | bp |
| 11/9/2011 | | 3 | 16 | 8 | 0 | |
| 11/10/2011 | | 3 | 16 | 5 | 0 | |
| 11/11/2011 | | 3 | 16 | 10 | 0 | |
| 11/12/2011 | | 3 | 16 | 10 | 0 | |
| 11/13/2011 | | 3 | 16 | 9 | 0 | |
| 11/14/2011 | | 2 | 15 | 9 | 0 | |
| 11/15/2011 | | 3 | 16 | 9 | 0 | |
| 11/16/2011 | | 2 | 15 | 9 | 0 | |
| 11/17/2011 | | 3 | 16 | 8 | 0 | |
| 11/18/2011 | | 3 | 16 | 8 | 0 | |
| 11/19/2011 | | 3 | 16 | 8 | 0 | |
| 11/20/2011 | | 3 | 16 | 7 | 0 | |
| 11/21/2011 | | 3 | 16 | 8 | 0 | |
| 11/22/2011 | | 3 | 16 | 6 | 0 | |
| 11/23/2011 | | 3 | 16 | 8 | 0 | |
| 11/24/2011 | | 3 | 16 | 11 | 0 | |
| 11/25/2011 | | 3 | 16 | 10 | 0 | |
| 11/26/2011 | | 3 | 16 | 9 | 0 | |
| 11/27/2011 | | 2 | 15 | 9 | 0 | |
| 11/28/2011 | | 2 | 15 | 9 | 0 | |
| 11/29/2011 | | 2 | 15 | 9 | 0 | |
| 11/30/2011 | | 2 | 15 | 8 | 0 | |
| 12/1/2011 | | 0 | 0 | 0 | 0 | |

Total 258