KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

| Type Test | | | | | (| See Instruct | tions on Re | everse Sid | θ) | | | | |
|-------------------------------------|------------------------------|---|--|---------------------------------------|--|---|--|--|-----------------------------|------------------------------|------------------------|---|--|
| Open Flow | | | | Test Date | Test Date: | | | | l No. 15 | | | | |
| De | liverabil | ty | | | 6/12/20 | | | | | 1-20529-00 0 | 0 | | |
| Company Rosewoo | | our | ces, Inc. | | | | Lease Whitmo | ore | | | 21-29 | Well Nu | ımber |
| County Location Sherman NENW/4 | | | Section 29 | | | | WP RNG (E/W) 7S 39W | | | Acres Attributed 80 | | | |
| Field Goodand | d | | | | Reservoir Niobrara | | | | | thering Conne Systems Inc | | | |
| | | | | Plug Bac 1209' | Plug Back Total Depth 1209' | | | Packer | Set at | | | ······································ | |
| Casing Si | Casing Size Weight | | | Internal D | Diameter | - | Set at 1209' | | orations 4' | To 1064' | | | |
| Tubing Si | ze | | Weight | | Internal [| Diameter | Set | | Perfo | orations | То | | |
| Type Con Single (| | | | | Type Flui | d Productions | า | | Pump U flowin | nit or Traveling | Plunger? Yes | No | |
| Producing | Thru (| | ulus / Tubing) | | | Carbon Dioxi | de | • | % Nitrog | | Gas G .6 | ravity - (| G ₉ |
| Annulus Vertical D | | , | | | | Pres | sure Taps | | | | | Run) (P | rover) Size |
| 1220' | , | | | | | Flan | ge . | | | | 2" | | · |
| Pressure | Buildup | : S | hut in 6-11 | 2 | | :55 | | | | | 13 at 3:05 | (| (AM (PM) |
| Well on L | ine: | s | tarted 6-12 | 2 | 0 13 at 3 | :05 | (AM)(PM) | Taken 6 | -13 | 20 | 13 _{at} 3:55 | (| (AM)(PM) |
| | | | | | · · · · · · | OBSERVE | D SURFAC | E DATA | ., | | Duration of Shut | -in <u>24</u> | Hours |
| Static / Dynamic | amic Size Meter Differential | | Flowing Well Head Temperature t t | | Casing Wellhead Pressure (P _w) or (P _t) or (P _c) | | Tubing Wellhead Pressure (P _w) or (P _t) or (P _c) | | Duration (Hours) | | d Produced Barrels) | | |
| Property Shut-In | (inche | 5) | psig (Pm) | Inches H ₂ 0 | ı | L | psig | 78.4 | psig | psia | | + | |
| Flow | | | | | | | 12 | 26.4 | | | 24 | 0 | |
| | | | | | | FLOW STR | EAM ATT | RIBUTES | | | | | |
| Coefficient | | Circle one: Meter or eer Pressure psia | Press Extension ✓ P _m x h | Grav Fact | tor | Flowing Femperature Factor F ₁₁ | perature Fac | | Metered Flow R (Mcfd) | y GOR (Cubic F Barrel | eet/ | Flowing Fluid Gravity G _m | |
| | | | | | | | | | | 105 | | | |
| L | | | | | (OPEN FL | OW) (DELIV | ERABILITY | r) CALCUI | ATIONS | | (P |) ² = 0.2 | 0.7 |
| (P _c) ² = | | <u>:</u> | (P _w) ² =_ | : | P _d = | 9 | %, (| P _c - 14.4) - | 14.4 = _ | : | |) ² = | |
| (P _c) ² - (F | - | (P _c |)²- (P _w)² | 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ | LOG of formula 1. or 2. and divide | P _c ² - P _w ² | Sid A | essure Curve ope = "n" or ssigned dard Slope | l n x | rod | Antilog | Deli Equals | pen Flow iverability R X Antilog (Mcfd) |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Open Flor | w | • | | Mcfd @ 14. | 65 psia | | Delivera | bility | | | Mcfd @ 14.65 ps | ia | |
| The u | undersig | gned | authority, on | behalf of the | Company, s | states that h | e is duly a | uthorized | to make ti | he above repo | rt and that he h | as know | ledge of |
| the facts s | tated th | erein | , and that said | | | RECEIVED | | | day of _ | lovember // / | :11 | | 20 13 |
| | | | Witness (if a | | KANSAS CO | RPORATION | COMMISSIC | ON _ | LL | rull | JV (C) | tu | DY. |
| | | | · | | DE | EC 26 2 | 2013 | | | | | | V |
| | | | For Commis | sion | | | | | | Chec | cked by | | |

| I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to reque exempt status under Rule K.A.R. 82-3-304 on behalf of the operator Rosewood Resources, Inc. | est |
|--|---------|
| and that the foregoing pressure information and statements contained on this application form are true ar | nd |
| correct to the best of my knowledge and belief based upon available production summaries and lease record | ds |
| of equipment installation and/or upon type of completion or upon use being made of the gas well herein name | ed. |
| I hereby request a one-year exemption from open flow testing for the Whitmore 21-29 | |
| 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 Commis | ssion |
| staff as necessary to corroborate this claim for exemption from testing. | |
| | |
| Date: _11/26/13 | |
| | |
| | |
| | |
| Signature: | _ |
| Title: Production Assistant | _ |
| | |
| | |
| | |

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

KANSAS CORPORATION COMMISSION

W2580

WELL ID

Whitmore 21-29 LEASE NAME

North Goodland

FIELD

Goodland

AREA

None

EQUIPMENT

June-13

DATE

| | Line Casing | | | | HRS | REMARKS |
|-----------|-------------|----|-----------|-----|------|---------------------------------|
| DATE | PSI PSI | | STATIC MO | CF | DOWN | (Maximum length 110 characters) |
| 6/1/2013 | 12 | 12 | | 105 | 0 | |
| 6/2/2013 | 12 | 12 | 25 | 105 | 0 | |
| 6/3/2013 | 12 | 12 | 25 | 105 | 0 | |
| 6/4/2013 | 12 | 12 | 25 | 105 | 0 | |
| 6/5/2013 | 12 | 12 | 25 | 105 | 0 | |
| 6/6/2013 | 12 | 12 | 25 | 105 | 0 | |
| 6/7/2013 | 12 | 12 | 25 | 105 | 0 | |
| 6/8/2013 | 12 | 12 | 25 | 105 | 0 | |
| 6/9/2013 | 12 | 12 | 25 | 105 | 0 | |
| 6/10/2013 | 12 | 12 | 25 | 105 | 0 | |
| 6/11/2013 | 12 | 12 | 25 | 104 | 0 | shut in |
| 6/12/2013 | 24 | 24 | 37 | 0 | 24 | opened up |
| 6/13/2013 | 12 | 12 | 25 | 104 | 0 | |
| 6/14/2013 | 12 | 12 | 25 | 104 | 0 | |
| 6/15/2013 | 12 | 12 | 25 | 104 | 0 | |
| 6/16/2013 | 12 | 12 | 25 | 104 | 0 | |
| 6/17/2013 | 12 | 12 | 25 | 104 | 0 | |
| 6/18/2013 | 12 | 12 | 25 | 104 | 0 | |
| 6/19/2013 | 12 | 12 | 25 | 105 | 0 | |
| 6/20/2013 | 12 | 12 | 25 | 105 | 0 | |
| 6/21/2013 | 12 | 12 | 25 | 105 | 0 | |
| 6/22/2013 | 12 | 12 | 25 | 105 | 0 | |
| 6/23/2013 | 12 | 12 | 25 | 105 | 0 | |
| 6/24/2013 | 12 | 12 | 25 | 105 | 0 | |
| 6/25/2013 | 12 | 12 | 25 | 105 | 0 | |
| 6/26/2013 | 12 | 12 | 25 | 105 | 0 | |
| 6/27/2013 | 12 | 12 | 25 | 105 | 0 | |
| 6/28/2013 | 12 | 12 | 25 | 105 | 0 | |
| 6/29/2013 | 12 | 12 | 25 | 105 | 0 | |
| 6/30/2013 | 12 | 12 | 25 | 105 | 0 | |
| 7/1/2013 | | | | | 0 | |

3038 Total

RECEIVED KANSAS CORPORATION COMMISSION

DEC 2 6 2013

W2580

WELL ID

Whitmore 21-29 LEASE NAME

North Goodland FIELD

Goodland

AREA

None

EQUIPMENT

July-13

Total

DATE

| | Line | Casing | | | | HRS | REMARKS |
|-----------|------|--------|----|----------|-----|------|---------------------------------|
| DATE | PSI | PSI | 1 | STATIC I | MCF | DOWN | (Maximum length 110 characters) |
| 7/1/2013 | | 5 | 12 | 25 | 105 | 0 | |
| 7/2/2013 | | 5 | 12 | 25 | 105 | 0 | |
| 7/3/2013 | | 5 | 12 | 25 | 105 | 0 | |
| 7/4/2013 | | 5 | 12 | 25 | 105 | 0 | |
| 7/5/2013 | | 5 | 12 | 25 | 105 | 0 | |
| 7/6/2013 | | 5 | 12 | 25 | 105 | 0 | |
| 7/7/2013 | | 5 | 12 | 25 | 104 | 0 | |
| 7/8/2013 | | 5 | 12 | 25 | 104 | 0 | |
| 7/9/2013 | | 5 | 12 | 25 | 104 | 0 | |
| 7/10/2013 | | 5 | 12 | 25 | 104 | 0 | |
| 7/11/2013 | | 5 | 12 | 25 | 104 | 0 | |
| 7/12/2013 | | 5 | 12 | 25 | 104 | 0 | |
| 7/13/2013 | | 5 | 12 | 25 | 104 | 0 | |
| 7/14/2013 | | 5 | 12 | 25 | 104 | 0 | |
| 7/15/2013 | | 5 | 12 | 25 | 104 | 0 | |
| 7/16/2013 | | 5 | 12 | 25 | 104 | 6.5 | cal |
| 7/17/2013 | | 5 | 12 | 25 | 85 | 0 | |
| 7/18/2013 | | 5 | 12 | 25 | 104 | 0 | |
| 7/19/2013 | | 5 | 12 | 25 | 104 | 0 | • |
| 7/20/2013 | | 5 | 12 | 25 | 104 | 0 | |
| 7/21/2013 | | 5 | 12 | 25 | 104 | 0 | |
| 7/22/2013 | | 5 | 12 | 25 | 104 | 0 | |
| 7/23/2013 | | 5 | 12 | 25 | 104 | 0 | |
| 7/24/2013 | | 5 | 12 | - 25 | 101 | 0 | |
| 7/25/2013 | | 5 | 12 | 25 | 101 | 0 | |
| 7/26/2013 | | 5 | 12 | 25 | 101 | 0 | |
| 7/27/2013 | | 5 | 12 | 25 | 101 | 0 | |
| 7/28/2013 | | 5 | 12 | 25 | 101 | 0 | |
| 7/29/2013 | | 5 | 12 | 25 | 101 | 0 | |
| 7/30/2013 | _ | 5 | 12 | 25 | 101 | 0 | |
| 7/31/2013 | í | 5. | 12 | 25 | 101 | 0 | |

3187

RECEIVED KANSAS CORPORATION COMMISSION

DEC 2 6 2013

CONSERVATION DIVISION