KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

| Type Test | | m at | | (| See Instruc | tions on Rev | erse Side | 9) | | | |
|--|-------------------------------|---|--|------------------------------------|--|--|--|----------------|---|--------------------------------|---|
| Op | oen Flow | ACOL | | Test Date | •• | | | ΛD | l No. 15 | | |
| De | eliverabilty | , | | 6/2/201 | | | | | 1-20415-00 | 000 | |
| Company | | ources, Inc. | | | | Lease Duell | | | | 14-21 | Well Number |
| County Sherma | n | Locat SWS\ | | Section 21 | | TWP 7S | | RNG (E | E/W) | | Acres Attributed 80 |
| Field Goodlan | nd _ | _ | | Reservoir Niobrara | | | | | thering Conn Systems In | | |
| Completion 6/3/200 | | | | Plug Bac 1186' | k Total Dept | th | | Packer | Set at | | |
| Casing S 4 3/4" | Size | Weight 10.5 | | Internal (4.000 | Diameter | Set a 1186 | | Perfo | orations 0' | то 1040' | |
| Tubing S | ize | Weigi | ht | Internal L | Diameter | Set a | t | Perf | orations | То | |
| Type Cor Single (| mpletion (| | | Type Flui Dry Ga | d Production | n | _ | Pump U | nit or Traveling | Plunger? Yes | /No |
| | g Thru (A | nnulus / Tubin | g) | | arbon Dioxi | de | | % Nitro | <u> </u> | Gas Gr | avity - G _g |
| Vertical D | | = | | | Pres | sure Taps | | | | | Run) (Prover) Size |
| 1220' | | | | | Flan | • | | | | 2" | , (, 5 |
| Pressure | Buildup: | | | | | | | | | 15 at 2:50 | (AM) (PM) |
| Well on L | _ine: | Started 6-2 | 2 | 0 <u>15</u> at <u>2</u> | :50 | (AM) (PM) | Taken 6- | 3 | 20 | 15 at 3:40 | (AM) (PM) |
| | | | | | OBSERVE | D SURFACE | DATA | | | Duration of Shut- | n 24 Hours |
| Static / Dynamic Property | Orlfice Size (inches) | Circle one: Meter Prover Press | | Flowing Temperature t | Well Head Temperature t | Casi Wellhead I (P _w) or (P, | ressure | Wellhe | Tubing ead Pressure or (P ₁) or (P _c) | Duration (Hours) | Liquid Produced (Barrels) |
| Shut-In | | psig (Pm) | Inches H ₂ 0 | | | psig 22 | 95ia 36.4 | psig | psia | | |
| Flow | | | | | | 7 | 21.4 | | | 24 | |
| | | <u>_</u> _ | | | FLOW STR | EAM ATTRI | BUTES | | , | | |
| Plate Coeffied (F _b) (F Mcfd | eient (p) P | Circle one: Meter or Prover Pressure psla | Press Extension √ P _m x h | Grav Fact | tot T | Flowing Temperature Factor Fit | Fa | iation ctor | Metered Flov R (Mcfd) | v GOR (Cubic Fe Barrel) | Flowing Fluid Gravity G _m |
| <u>-</u> | | | | | | | | | 26 | | |
| (5) \ 0 | | (T) 10 | | • | | ERABILITY) | | | | | = 0.207 |
| (P _c) ² = | -: | (P _w) ² = | Choose formula 1 or 2: | P_a = | | T — | <u>, - 14.4) +</u> | | : | (P _d) ² | <u> </u> |
| (P _c) ² - (I or (P _c) ² - (F | P _d) ² | (P _c) ² - (P _w) ² | 1. P _c ² -P _s ² 2. P _c ² -P _d ² divided by: P _c ² -P _w ² | LOG of formula 1. or 2. and divide | P _c ² -P _w ² | Slop Ass | sure Curve e = "n" or igned rd Slope | n r | rog | Antilog | Open Flow Deliverability Equals R x Antilog (Mcfd) |
| | | | | | | | | | | | |
| Open Flo | _ w | | Mcfd @ 14.0 | 65 psia | | Deliverabi | itv | | | | |
| | | ed authority o | | | tates that h | | | n make ti | | rt and that he ha | |
| | | | aid report is true | | | | | | ecember | | ag 15 |
| | | Witness (| if any) | | -KCC | WICH | ITA. | Toi | rull | Mon | ting |
| | | | | | | _ | • | | | | |
| | | For Comm | nission | | MUK | 07 201 | U | | Che | cked by | |

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| exempt status under Rule and that the foregoing p correct to the best of my to of equipment installation | alty of perjury under the laws of the state of Kansas that I am authorized to request K.A.R. 82-3-304 on behalf of the operator Rosewood Resources, Inc. ressure information and statements contained on this application form are true and knowledge and belief based upon available production summaries and lease records and/or upon type of completion or upon use being made of the gas well herein named. e-year exemption from open flow testing for the Duell 14-21 |
|---|---|
| gas well on the grounds t | hat said well: |
| is cyc is a so is on v | valbed methane producer led on plunger lift due to water ource of natural gas for injection into an oil reservoir undergoing ER vacuum at the present time; KCC approval Docket No |
| | oply to the best of my ability any and all supporting documents deemed by Commission |
| staff as necessary to cor | roborate this claim for exemption from testing. |
| Date: 12/22/15 | |
| | Signature: Sand Matter KCC WICHITA Title: Production Assistant APR 07 2016 |
| | KCC WICHTIA 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.

W2186 Duell 14-21 North Goodland Goodland None June-15

| | Casing | | | I | IRS | REMARKS |
|-----------|--------|--------|-----|----|-----|---------------------------------|
| DATE | PSI | STATIC | MCF | | OWN | (Maximum length 110 characters) |
| 6/1/2015 | 22 | 35 | 5 | 0 | 24 | |
| 6/2/2015 | 22 | 35 | 5 | 0 | 24 | |
| 6/3/2015 | 17 | 30 |) | 39 | 0 | |
| 6/4/2015 | 14 | 27 | 7 | 39 | 0 | |
| 6/5/2015 | 12 | 25 | 5 | 35 | 0 | |
| 6/6/2015 | 11 | 24 | 1 | 34 | 0 | |
| 6/7/2015 | 10 | 23 | 3 | 33 | 0 | |
| 6/8/2015 | 10 | 23 | 3 | 32 | 0 | |
| 6/9/2015 | 9 | 22 | 2 | 32 | 0 | |
| 6/10/2015 | 9 | 22 | 2 | 32 | 0 | |
| 6/11/2015 | ç | 21 | l | 32 | 0 | |
| 6/12/2015 | 9 | 21 | 1 | 31 | 0 | |
| 6/13/2015 | ç | 21 | l | 27 | 4 | |
| 6/14/2015 | ç | 21 | l | 30 | 0 | |
| 6/15/2015 | 9 | 21 | i | 31 | 0 | |
| 6/16/2015 | 7 | 20 |) | 30 | 0 | |
| 6/17/2015 | 7 | 20 |) | 29 | 0 | |
| 6/18/2015 | 7 | 20 |) | 30 | 0 | |
| 6/19/2015 | 7 | 20 |) | 29 | 0 | |
| 6/20/2015 | 7 | 20 |) | 27 | 1 | |
| 6/21/2015 | 7 | 20 |) | 29 | 0 | |
| 6/22/2015 | 7 | 20 |) | 28 | 0 | |
| 6/23/2015 | 7 | 20 |) | 29 | 0 | |
| 6/24/2015 | 7 | 20 |) | 28 | 0 | bp |
| 6/25/2015 | 7 | 20 |) | 25 | 2 | |
| 6/26/2015 | 5 | 20 |) | 29 | 0 | |
| 6/27/2015 | 7 | 20 |) | 29 | 0 | |
| 6/28/2015 | 7 | 19 |) | 29 | 0 | |
| 6/29/2015 | 7 | ' 19 |) | 28 | 0 | |
| 6/30/2015 | 7 | 19 |) | 28 | 0 | |
| 7/1/2015 | | (|) | 0_ | 0 | |

Total 854

KCC WICHITA APR 07 2016 RECEIVED

W2186 Dueli 142 [444]

North Goodland

Goodland

None

July-14

| | Casing | | | HRS | | REMARKS |
|-----------|--------|--------|-----|------|---|---------------------------------|
| DATE | PSI | STATIC | MCF | DOWN | | (Maximum length 110 characters) |
| 7/1/2014 | ı | 6 19 |) | 27 | 0 | |
| 7/2/2014 | , | 7 20 |) | 26 | 0 | |
| 7/3/2014 | , | 7 20 |) | 27 | 0 | |
| 7/4/2014 | , | 7 20 |) | 26 | 0 | |
| 7/5/2014 | , | 7 20 |) | 26 | 0 | |
| 7/6/2014 | , | 7 20 |) | 26 | 0 | |
| 7/7/2014 | | 7 20 |) | 27 | 0 | |
| 7/8/2014 | | 7 20 |) | 27 | 0 | |
| 7/9/2014 | | 6 19 |) | 27 | 0 | |
| 7/10/2014 | | 6 19 |) | 27 | 0 | |
| 7/11/2014 | | 7 20 |) | 26 | 0 | |
| 7/12/2014 | | 7 20 |) | 26 | 0 | · |
| 7/13/2014 | | 7 20 |) | 25 | 0 | |
| 7/14/2014 | | 7 20 |) | 25 | 0 | |
| 7/15/2014 | | 8 21 | | 19 | 6 | |
| 7/16/2014 | | 8 21 | | 24 | 0 | |
| 7/17/2014 | | 8 21 | | 23 | 0 | |
| 7/18/2014 | | 8 21 | | 23 | 0 | |
| 7/19/2014 | | 8 21 | | 23 | 0 | |
| 7/20/2014 | | 8 2 | i | 23 | 0 | |
| 7/21/2014 | | 8 21 | l | 22 | 1 | |
| 7/22/2014 | | 8 2 | l | 24 | 0 | |
| 7/23/2014 | | 9 22 | 2 | 19 | 3 | |
| 7/24/2014 | | 8 2 | [| 25 | 0 | |
| 7/25/2014 | | 8 2 | Ī | 25 | 0 | |
| 7/26/2014 | | 8 2 | ! | 25 | 0 | |
| 7/27/2014 | | 8 2 | l | 25 | 0 | |
| 7/28/2014 | | 8 2 | 1 | 16 | 9 | |
| 7/29/2014 | | 8 2 | 1 | 27 | 0 | |
| 7/30/2014 | | 8 2 | l | 26 | 0 | |
| 7/31/2014 | | 8 2 | l | 25 | 1 | |

762

Total

KCC WICHITA APR 0.7 2016 RECEIVED W2186 Duell 14-21

North Goodland

Goodland

None

August-14

| | Casing | | | HRS | | REMARKS |
|-----------|--------|--------|-----|------|---|---------------------------------|
| DATE | PSI | STATIC | MCF | DOWN | | (Maximum length 110 characters) |
| 8/1/2014 | | 7 | 20 | 26 | 2 | |
| 8/2/2014 | | 7 | 20 | 26 | 0 | |
| 8/3/2014 | | 7 | 20 | 26 | 0 | |
| 8/4/2014 | | 7 | 20 | 26 | 0 | |
| 8/5/2014 | | 7 | 20 | 26 | 0 | |
| 8/6/2014 | | 7 | 20 | 26 | 0 | |
| 8/7/2014 | | 7 | 20 | 26 | 0 | |
| 8/8/2014 | | 7 | 20 | 26 | 0 | |
| 8/9/2014 | | 7 | 20 | 26 | 0 | |
| 8/10/2014 | | 7 | 20 | 26 | 0 | |
| 8/11/2014 | | 7 | 20 | 26 | 0 | |
| 8/12/2014 | | 7 | 20 | 26 | 0 | |
| 8/13/2014 | | 7 | 20 | 26 | 0 | |
| 8/14/2014 | | 7 | 20 | 26 | 0 | |
| 8/15/2014 | | 7 | 20 | 26 | 0 | |
| 8/16/2014 | | 7 | 20 | 26 | 0 | |
| 8/17/2014 | | 7 | 20 | 26 | 0 | |
| 8/18/2014 | | 7 | 20 | 26 | 0 | |
| 8/19/2014 | | 7 | 20 | 26 | 0 | |
| 8/20/2014 | | 7 | 20 | 26 | 0 | |
| 8/21/2014 | | 7 | 20 | 26 | 0 | |
| 8/22/2014 | | 7 | 20 | 26 | 0 | |
| 8/23/2014 | | 7 | 20 | 26 | 0 | |
| 8/24/2014 | | 7 | 20 | 26 | 0 | |
| 8/25/2014 | | 6 | 19 | 26 | 0 | |
| 8/26/2014 | | 6 | 19 | 26 | 0 | |
| 8/27/2014 | | 6 | 19 | 26 | 0 | |
| 8/28/2014 | | 6 | 19 | 26 | 0 | |
| 8/29/2014 | | 6 | 19 | 26 | 0 | |
| 8/30/2014 | | 6 | 19 | 26 | 0 | |
| 8/31/2014 | | 6 | 19 | 26 | 0 | |

Total 806

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