KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

| Type Test | | | ast | _ | (| See Instruc | tions on Re | verse Side |) | | | |
|---|------------------------------------|------|--|--|---|--|---|---|----------------------------------|------------------------------|-------------------------------|---|
| = : | en Flo liverab | • | M)T | | Test Date | e: | | | | No. 15 | 20 | |
| | | , | | | 7/16/14 | | Lease | | | 1-20425-01-0 | | Well Number |
| Rosewo | | soul | rces, Inc. | | | | Homes | tead | | | 34-05 | |
| County Location Sherman SWSE/4 | | | Section 5 | | | | RNG (E. | (W) | | Acres Attributed 80 | | |
| Field Goodland | | | Reservoir Niobrara | | | | | thering Conn Systems In | | | | |
| Completion 11/11/20 | | е | | | Plug Bac 3163' | k Total Dep | th | | Packer S | Set at | | |
| Casing Size Weight 4 1/2" 10.5# | | | Internal Diameter Set at 4.000 3163' | | | Perfo 309 | rations 0' | то 3105' | | | | |
| Tubing Si | ize | | Weigh | t | Internal Diameter Set at | | | Perfo | rations | То | | |
| Type Con Single (| | | | | Type Flui Dry Ga | d Production | n | | Pump Ur Flowin | nit or Traveling | Plunger? Yes | (No) |
| Producing | g Thru | (Anr | rulus / Tubing | j) | % C | arbon Dioxi | ide | | % Nitrog | jen | | avity - G _g |
| Annulus | | 1/ | | _ | | Prop | EURO Topo | | | | .6 | Run) (Prover) Size |
| Vertical D | | | | | Pressure Taps Flange | | | | | | 2" | |
| Pressure | Buildu | p: . | Shut in | 52 | ₀ 14 at 3 | :20 | (AM)(PM) |)Taken | 16 | 20 | 14 at 3:35 | (AM) (PM) |
| Well on L | ine: | | Started 7-1 | | 0 14 at 3 | :35 | (AM)(PM) | Taken_7- | 18 | 20 | 14 at 4:20 | (AM) (MA) |
| | | | _ | | | OBSERVE | D SURFAC | E DATA | | | Duration of Shut- | in_48 Hour |
| Static / Dynamic Property | Static / Orifice Meter Differentle | | Pressure Differential in | Flowing Temperature | Wellhead | | | Tubing pad Pressure or (P _r) or (P _c) | Duration (Hours) | Liquid Produced (Barrels) | | |
| Shut-In | (incit | | psig (Pm) | Inches H ₂ 0 | <u> </u> | t | psig 8 | psia | psig | psia | | |
| Flow | | | | | | | 5 | 19.4 | - | | 48 | 0 |
| | | | | | | FLOW STE | REAM ATTE | RIBUTES | | | | |
| Plate Coeffiecient (F _b) (F _p) Mcfd | | Pro | Circle one: Meter or over Pressure psia | Press Extension ✓ P _m xh | Grav Fac F | tor | Flowing Temperature Factor F _{II} | Fa | iation actor _{pv} | Metered Flor R (Mcfd) | w GOR (Cubic Fe Barrel) | l Gravitu |
| | | | | _ | | | | | | 6 | | |
| | | | | <u> </u> | (OPEN FL | OW) (DELIV | ERABILITY |) CALCUL | ATIONS | | (P.) | ²= 0.207 |
| (P _c) ² = | | _: | (P _w)² = | <u>:</u> | P _d = | | % (| P _c - 14.4) + | 14.4 = | : _ | (P _d) | |
| (P _c) ² - (l | | (F | P _o) ² - (P _w) ² | Choose formula 1 or 2 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_a^2$ | LOG of formula 1. or 2. and divide | P _c ² -P _w ² | Što A | essure Curve pe = "n" - or ssigned dard Slope | l n x | rog | Antilog | Open Flow Deliverability Equals R x Antilog (Mcfd) |
| | | | | | | | | | | | _ | |
| | | | | | | | | | | | | <u> </u> |
| Open Flo | w | | | Mcfd @ 14. | 65 psia | | Deliveral | bility | | | Mcfd @ 14.65 ps | ia |
| | | _ | | | | | | | г | he above repo December | ort and that he ha | as knowledge of |
| ine tacts s | siated t | nere | ın, and that s | aid report is tru | | Rece SAS CORPORA | eived | | day of | | Mast | (دالا |
| | | | Witness (| f any) | KANS | | | 7 | g A | For | Сотралу | y |
| | | | For Comm | ission | | LER 2 | 5 2015 | | | Che | cked by | |

| 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 Rosewood Resources, Inc. 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 Homestead 34-05H 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: _12/23/14 |
| Received KANSAS CORPORATION COMMISSION FEB 2 5 2015 CONSERVATION DIVISION WICHITA, KS 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.

W2287 Homestead 34-05H North Goodland Goodland None July-14

| | Casing | | | HRS | | REMARKS |
|-----------|--------|--------|--------------|-----|----|---------------------------------|
| DATE | PSI | STATIC | MCF | DOW | /N | (Maximum length 110 characters) |
| 7/1/2014 | ; | 5 1 | 3 | 6 | 0 | |
| 7/2/2014 | : | 5 13 | 3 | 6 | 0 | |
| 7/3/2014 | | 5 18 | 3 | 6 | 0 | |
| 7/4/2014 | | 5 18 | 3 | 6 | 3 | |
| 7/5/2014 | | 5 1 | 3 | 6 | 0 | |
| 7/6/2014 | | 5 1 | 3 | 6 | 0 | |
| 7/7/2014 | | 5 13 | 3 | 6 | 0 | |
| 7/8/2014 | : | 5 1 | 3 | 5 | 0 | |
| 7/9/2014 | | 5 1 | 8. | 5 | 0 | |
| 7/10/2014 | : | 5 13 | 3 | 5 | 0 | |
| 7/11/2014 | | 5 1 | 3 | 5 | 0 | |
| 7/12/2014 | , | 5 1 | 3 | 5 | 0 | |
| 7/13/2014 | , | 5 18 | 3 | 5 | 0 | |
| 7/14/2014 | : | 5 13 | 3 | 5 | 0 | |
| 7/15/2014 | | 4 1 | 7 | 5 | 3 | shut in for state |
| 7/16/2014 | • | 7 20 |) | 0 | 24 | |
| 7/17/2014 | | 8 2 | 1 | 0 | 24 | opened up |
| 7/18/2014 | ı | 6 19 |) | 8 | 0 | |
| 7/19/2014 | į | 6 19 |) | 7 | 0 | |
| 7/20/2014 | | 6 1 | 9 | 7 | 0 | |
| 7/21/2014 | j | 6 19 | • | 6 | 0 | |
| 7/22/2014 | 1 | 6 1 |) | 6 | 0 | |
| 7/23/2014 | | 6 1 | • | 6 | 0 | |
| 7/24/2014 | ı | 6 19 | • | 6 | 0 | |
| 7/25/2014 | | 6 1 | • | 6 | 0 | |
| 7/26/2014 | | 6 1 | 9 | 6 | 0 | |
| 7/27/2014 | • | 6 19 |) | 6 | 0 | |
| 7/28/2014 | | 6 1 | 9 | 6 | 0 | |
| 7/29/2014 | | 6 1 | 9 | 6 | 0 | |
| 7/30/2014 | | 5 1 | 3 | 7 | 0 | |
| 7/31/2014 | | 5 1 | 8 | 7 | 0 | |

Total

172

Received KANSAS CORPORATION COMMISSION

FEB 2 5 2015

W2287 Homestead 34-05H North Goodland Goodland None August-14

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

Total

192

Received KANSAS CORPORATION COMMISSION

FEB 2 5 2015

CONSERVATION DIVISION WICHITA, KS

W2287 Homestead 34-05H North Goodland Goodland None September-14

. . . .

| | Casing | a | | HR | | REMARKS |
|-----------|--------|--------|-----|----|-----|---------------------------------|
| DATE | PSI | STATIC | MCF | | WN | (Maximum length 110 characters) |
| 9/1/2014 | | 5 13 | | 7 | 0 | |
| 9/2/2014 | | 5 1 | | 7 | 0 | |
| 9/3/2014 | | 5 13 | | 7 | 0 | |
| 9/4/2014 | | 5 18 | | 7 | 0 | |
| 9/5/2014 | | 5 1 | | 7 | 0 | |
| 9/6/2014 | | 5 1 | 8 | 7 | 0 | |
| 9/7/2014 | | 5 13 | 8 | 7 | 0 | |
| 9/8/2014 | | 5 13 | 8 | 7 | 0 | |
| 9/9/2014 | | 5 18 | 8 | 7 | 0 | |
| 9/10/2014 | | 5 18 | 8 | 7 | 0 | |
| 9/11/2014 | | 5 18 | 8 | 7 | 0 | |
| 9/12/2014 | | 5 18 | 8 | 7 | 0 | |
| 9/13/2014 | | 5 13 | 8 | 7 | 0 | |
| 9/14/2014 | | 5 13 | 8 | 7 | 0 | |
| 9/15/2014 | | 5 18 | 8 | 7 | 0.5 | |
| 9/16/2014 | | 5 13 | 8 | 7 | 0 | |
| 9/17/2014 | | 5 13 | 8 | 7 | 0 | |
| 9/18/2014 | | 5 1 | 8 | 7 | 0.5 | |
| 9/19/2014 | | 5 1 | 8 | 7 | 0 | |
| 9/20/2014 | | 5 18 | 8 | 7 | 0 | |
| 9/21/2014 | | 5 18 | 8 | 7 | 0 | |
| 9/22/2014 | | 5 18 | 8 | 7 | 0 | |
| 9/23/2014 | | 5 18 | 8 | 7 | 0 | |
| 9/24/2014 | | 5 1 | 8 | 6 | 0 | |
| 9/25/2014 | | 5 18 | 8 | 6 | 0 | |
| 9/26/2014 | | 5 1 | 8 | 6 | 0 | |
| 9/27/2014 | | 5 1 | 8 | 6 | 0 | |
| 9/28/2014 | | 5 18 | 8 | 6 | 0 | |
| 9/29/2014 | | 5 1 | 8 | 6 | 0 | |
| 9/30/2014 | | 5 1 | 8 | 6 | 0 | |
| 10/1/2014 | | | | | 0 | |

Total

203

Received KANSAS CORPORATION COMMISSION

FEB 2 5 2015