KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

| Type Test | | | MT. | | | (| See Instruc | ctions on Re | everse Side |)) | | | | | |
|--|-----------------------------|---|---------------------------|--|--|---|--|---|--|---------------------------|---|--|--------------------------|-------------|--|
| Open Flow AST | | | | Test Date: | | | | AP | I No. 15 | | | | | | |
| Dolivershilty | | | | | 8/22/20 | | | | | 3-21260-00 | 4 | | _ | | |
| Company Rosewood Resources, Inc. | | | | | | Lease Zweygardt | | | | 11-19 | Well Number 11-19 | | | | |
| County Location Cheyenne NWNW | | | | | | Section 19 | | TWP 3S | • | | /W) | | Acres Attributed 80 | | |
| Field Cherry C | Creek | | | | | Reservoi Niobrara | | | | | thering Conn | | REC | EIVED | |
| Completic 9/23/201 | | 9 | | | | Plug Bac 1418' | k Total Dep | oth | | Packer | Set at | | JAN | 0 3 2013 | |
| Casing Size Weight 4 1/2" 10.5# | | | | Internal (| Diameter | | Set at 1454' | | orations 32' | то 1282' | SO REC JAN KCC W | - /ICHIT/ | | | |
| Tubing Si | Tubing Size Weight | | | | Internal [| Internal Diameter Set | | | | | | | <u>-</u> | | |
| Type Con Single (| | | | | | | Type Fluid Production Dry Gas | | | | Pump Unit or Traveling Plunger? Yes No flowing | | | | |
| | g Thru | | nulus / Tubin | ng) | | % Carbon Dioxide | | | | - | | | Gravity - G _g | | |
| Vertical D | |) | | | | | Pre | ssure Taps | | | | | Run) (Prover) Size | - | |
| 1464' | | | | | | | Flange | | | | | 2" | | | |
| Pressure | Buildup | o: \$ | Shut in 8-2 | 21 | 2 | 20_12 at 5:25 | | | (AM) (PM) Taken 8-22 | | 20 | 12 _{at 5:40} | (AM(PM) | | |
| Well on Line: Started 8-22 | | | 2 | 0 12 at 5:40 (AM) (PM) Taken 8 | | | | | 20 | 12 at | (AM)(PM) | ı | | | |
| | | | 8: | | | | OBSERVI | ED SURFAC | | | | Duration of Shut- | in 24 Hours | - s 7 | |
| Static / Dynamic Property | ynamic Size Prover Pressure | | ure | Pressure Differential in Inches H ₂ 0 | Flowing Well Head Temperature t t | | Casing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia | | Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c) psig psia | | Duration (Hours) | Liquid Produced (Barrels) | | | |
| Shut-In | | | | | | | | 207 | 221.4 | | | | | - | |
| Flow | | | | | | | | 76 | 90.4 | | ì | 24 | | | |
| | | | | | | | FLOW ST | REAM ATTE | RIBUTES | | | | | _ | |
| Plate Coeffiecient (F _b) (F _p) Mcfd | | Circle one: Meter or Prover Pressure psia | | | Press Extension ✓ P _m x h | ion Factor | | Flowing Temperature Factor F ₁₁ | Fa | iation ctor : pv | Metered Flov R (Mcfd) | y GOR (Cubic Fe Barrel) | Crouitu | | |
| | | | | | | | | | | | 20 | | | | |
| (P _c) ² = | | | (P _w)² = | _ | | (OPEN FL | • • | VERABILITY | /) CALCUL P _c - 14.4) + | | | (P _a) (P _d) | ² = 0.207 | | |
| $(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$ | | (P _c) ² - (P _w) ² | | Choose formula 1 or 2: | | Backpressure Curve Slope = "n" 1. or 2. nd divide Backpressure Curve Slope = "n" | | n x | ГЛ | Antilog | Open Flow Deliverability Equals R x Antilog (Mcfd) | | | | |
| | | | | | | | | | | | | | | 1 | |
| Open Flor | N | | | | Mcfd @ 14. | 65 neie | | Deliveral | hility | | | Mcfd @ 14.65 ps | ia | J | |
| · | | | | | | | | | - | | | | | - | |
| | | | authority, on, and that s | | | | | • | | | he above repo December | rt and that he ha | as knowledge of | | |
| | | | | | | | | | | 20 | ernel | (60) | wed | | |
| | | | Witness | (if any) |) | | | - | | | For | Company | | - | |
| | | | For Comr | mission | 1 | | | - | | | Che | cked by | | | |

| KCC WICHIA |
|---|
| er penalty of perjury under the laws of the state of Kansas that I am authorized to request er Rule K.A.R. 82-3-304 on behalf of the operator Rosewood Resources, Inc. |
| oing pressure information and statements contained on this application form are true and of my knowledge and belief based upon available production summaries and lease records allation and/or upon type of completion or upon use being made of the gas well herein named. Set a one-year exemption from open flow testing for the Zweygardt 11-19 |
| ounds that said well: |
| 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 to supply to the best of my ability any and all supporting documents deemed by Commission to corroborate this claim for exemption from testing. |
| |
| Signature: Donnell Gewell |
| d t a e c |

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.

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KCC WICHITA

W2730 Zweygardt 11-19

St. Francis

St. Francis

Flow

August-12

FloBoss

| | Tubing | Casing | | | | | HRS | Water | REMARKS |
|-----------|--------|--------|-------------|-----|-----|-------|------|-------|--------------------------------|
| DATE | PSI | PSI | STATIC | MCF | SPM | CYCLE | DOWN | BBLS | (Maximum length 110 characters |
| 8/1/2012 | | 77 | 90 | 21 | | | | | |
| 8/2/2012 | | 70 | 83 | 21 | | | | | |
| 8/3/2012 | | 70 | 83 | 21 | | | | | |
| 8/4/2012 | | 68 | 81 | 21 | | | | | |
| 8/5/2012 | | 77 | 90 | 21 | | | | | |
| 8/6/2012 | | 69 | 82 | 21 | | • | | | |
| 8/7/2012 | | 78 | 91 | 21 | | | | | |
| 8/8/2012 | | 71 | 84 | 21 | | | | | |
| 8/9/2012 | | 70 | 83 | 21 | | | | | |
| 8/10/2012 | | 83 | 96 | 21 | | | | | |
| 8/11/2012 | | 71 | 84 | 20 | | | 1.5 | | |
| 8/12/2012 | | 72 | 85 | 20 | | | | | · |
| 8/13/2012 | | 67 | 80 | 20 | | | | | |
| 8/14/2012 | | 69 | 82 | 20 | | | | | |
| 8/15/2012 | | 79 | 92 | 20 | | | | | |
| 8/16/2012 | | 69 | 82 | 20 | | | | | |
| 8/17/2012 | | 70 | 83 | 20 | | | | | |
| 8/18/2012 | | 75 | 88 | 20 | | | | | |
| 8/19/2012 | | 73 | 86 | 20 | | | | | |
| 8/20/2012 | | 67 | 80 | 20 | | | | | |
| 8/21/2012 | | 67 | 80 | 20 | | | | | si for state test cp-71 |
| 8/22/2012 | | 20 | 7 80 | 0 | | | 24 | | reopened cp-207 |
| 8/23/2012 | | 76 | 89 | 30 | | | | | |
| 8/24/2012 | | 76 | 89 | 22 | is | | | | |
| 8/25/2012 | | 73 | 86 | 20 | | | | | |
| 8/26/2012 | | 73 | 86 | 20 | | | | | |
| 8/27/2012 | | 69 | 82 | 20 | | | | | |
| 8/28/2012 | | 69 | 82 | 20 | | | | | |
| 8/29/2012 | | 71 | 84 | 20 | | | | | |
| 8/30/2012 | | 70 | 83 | 20 | | | | | |
| 8/31/2012 | | 69 | 82 | 20 | | | | | |

W2730

Zweygardt 11-19

St. Francis

St. Francis

Flow

September-12

FloBoss

RECEIVED

JAN 0 3 2013

KCC WICHITA

| FloBoss | | | | | | | |
|-----------|--------|----------|-----|------|---------------------------------|--|--|
| | Casing | | | HRS | REMARKS | | |
| DATE | PSI | STATIC 1 | MCF | DOWN | (Maximum length 110 characters) | | |
| 9/1/2012 | 69 | 82 | 20 | | | | |
| 9/2/2012 | 72 | 85 | 20 | | | | |
| 9/3/2012 | 69 | 82 | 20 | | | | |
| 9/4/2012 | 69 | 82 | 20 | 1 | | | |
| 9/5/2012 | 83 | 96 | 20 | | | | |
| 9/6/2012 | 83 | 96 | 20 | | | | |
| 9/7/2012 | 149 | 162 | 6 | 19 | | | |
| 9/8/2012 | 171 | 184 | 0 | 24 | | | |
| 9/9/2012 | 177 | 190 | 0 | 24 | | | |
| 9/10/2012 | 181 | 194 | 0 | 24 | | | |
| 9/11/2012 | 182 | 195 | 0 | 24 | | | |
| 9/12/2012 | 184 | 197 | 0 | 24 | ı | | |
| 9/13/2012 | 118 | 131 | 3 | 10 | | | |
| 9/14/2012 | 116 | 129 | 21 | | | | |
| 9/15/2012 | 111 | 124 | 32 | | | | |
| 9/16/2012 | 100 | 113 | 27 | | | | |
| 9/17/2012 | 92 | 105 | 24 | | | | |
| 9/18/2012 | 75 | 88 | 24 | | | | |
| 9/19/2012 | 87 | 100 | 22 | | | | |
| 9/20/2012 | 68 | 81 | 22 | | | | |
| 9/21/2012 | 68 | 81 | 22 | | | | |
| 9/22/2012 | 67 | 80 | 21 | | | | |
| 9/23/2012 | 67 | 80 | 21 | | | | |
| 9/24/2012 | 68 | 81 | 21 | | | | |
| 9/25/2012 | 72 | 85 | 21 | | | | |
| 9/26/2012 | 73 | 86 | 21 | | • | | |
| 9/27/2012 | 79 | 92 | 21 | | | | |
| 9/28/2012 | 72 | 85 | 20 | | | | |
| 9/29/2012 | 72 | 85 | 20 | | | | |
| 9/30/2012 | 72 | 85 | 20 | | | | |
| 10/1/2012 | | | | | | | |

Total

W2730

Zweygardt 11-19

St. Francis

St. Francis

Flow

October-12

FloRoss

RECEIVED

JAN 0 3 2013

KCC WICHITA

| FloBoss | | | | |
|------------|--------|-----------|------|---------------------------------|
| | Casing | | HRS | REMARKS |
| DATE | PSI ST | TATIC MCF | DOWN | (Maximum length 110 characters) |
| 10/1/2012 | 72 | 85 | 20 | |
| 10/2/2012 | 72 | 85 | 20 | |
| 10/3/2012 | 72 | 85 | 20 | |
| 10/4/2012 | 70 | 83 | 20 | |
| 10/5/2012 | 70 | 83 | 20 | |
| 10/6/2012 | 71 | 84 | 20 | |
| 10/7/2012 | 70 | 83 | 19 | |
| 10/8/2012 | 70 | 83 | 20 | |
| 10/9/2012 | 71 | 84 | 20 | |
| 10/10/2012 | 72 | 85 | 20 | |
| 10/11/2012 | 71 | 84 | 20 | |
| 10/12/2012 | 71 | 84 | 20 | |
| 10/13/2012 | 71 | 84 | 20 | |
| 10/14/2012 | 74 | 87 | 19 | |
| 10/15/2012 | 71 | 84 | 19 | |
| 10/16/2012 | 90 | 103 | 19 | 1 |
| 10/17/2012 | 74 | 87 | 19 | |
| 10/18/2012 | 70 | 83 | 19 | |
| 10/19/2012 | 70 | 83 | 19 | |
| 10/20/2012 | 75 | 85 | 19 | |
| 10/21/2012 | 70 | 83 | 19 | |
| 10/22/2012 | 72 | 85 | 19 | |
| 10/23/2012 | 69 | 82 | 19 | |
| 10/24/2012 | 64 | 77 | 19 | |
| 10/25/2012 | 67 | 80 | 19 | |
| 10/26/2012 | 69 | -82 | 19 | |
| 10/27/2012 | 68 | 81 | 19 | |
| 10/28/2012 | 68 | 81 | 19 | |
| 10/29/2012 | 91 | 104 | 19 | 2 |
| 10/30/2012 | 82 | 95 | 19 | |
| 10/31/2012 | 70 | 83 | 19 | |

Total