KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

| Type Test | : on Flow | . <i>E</i> | ISI | | | (| See Ins | struct | tions on Re | vers | se Side | 9) | | | | | |
|--|--------------|------------|---|-----|--|---|---------|-------------------|---|----------------------------------|------------------------|--|------------------------|---------------------------|---------------------------|--|---|
| Open Flow Deliverability | | | | | | Test Date: 2/4/2010 | | | | | | API No. 15 15-181-20443-00 ~ OO | | | | | |
| Company | | soui | rces | - | | | ٠. | | Lease Leonar | d | | | | | 23-29 | Well N | ımber |
| County Shermar | n | | Loca: NESW | | | Section 29 | | | TWP 7S | | | RNG (E | (W) | | | Acres 6 | Attributed |
| Field Goodlan | i d | | | | | Reservoi Niobrari | | | | | | | thering Co | | | | |
| Completic 10/23/20 | | 9 | | | | Plug Bac 1268' | k Total | Dept | h | _ | | Packer | Set at | | | | |
| Casing Size Weight 4 1/2" 10.5# | | | | | | Internal Diameter 4.052 | | | Set at 1267.81' | | | Perforations 1036' | | | то 1074' | - - | • |
| Tubing Si | ze | | Weig | ht | | Internal C | Set | Set at | | Perforations | | | То | | | | |
| Type Con Single (| | | • | | | Type Flui Dry Ga | | uction | 1 | | | Pump U Flowin | nit or Trave | eling | Plunger? Yes | 7 (No | |
| Producing Annulus | - | (Anı | nulus / Tubir | g) | | % C | Carbon | Dloxi | de | | | % Nitro | gen | | Gas G | ravity - | G _g |
| Vertical D | epth(H |) | | | | Pressure Taps Flange | | | | | | | | (Meter Run) (Prover) Size | | | |
| Pressure | Buildur | o: | Shut in 2-3 | } | 2 | 0 10 at 1 | | | (PM) | Ta | ken_2- | 4 | | 20 . | 10 _{at} 11:30 | (| (AM))(PM) |
| Well on L | ine: | : | Started 2-4 | ļ | 20 | 0.10 at 1 | 1:30 | | (PM) | | | | | 20 | 10 at 12:15 | | (AM)(PM) |
| | | | | | | | OBSE | RVE | D SURFAC | E D | ATA | , | | (| Ouration of Shut | -In 72 | Hours |
| Static / Orifice Dynamic Size Property (inches) | | 3 | Prover Pressure | | Pressure Differential in Inches H ₂ 0 | Flowing Well Head Temperature t t | | | Wellhead Pressure (P_w) or (P_1) or (P_2) | | | Tubing Wellhead Pressure (P _w) or (P ₁) or (P _a) | | | Duration (Hours) | , | id Produced Barrels) |
| Shut-In | | | | | 3 | | | | 24 | 1 | _{psia} 3.4 | psig | psia | | | | |
| Flow | | : | | | | | | | 32 | 46 | 5.4 | | | | 72 | 0 | |
| | | | | _ | | | FLOW | STR | EAM ATTR | RIBU | ITE\$ | | Ι | | | | - |
| Plate Coeffieci (F _b) (F Mcfd | ient ,) | Pro | Circle one: Meter or ver Pressure psia | | Press Extension Pmxh | Grav Fac | tor | 7 | Flowing femperature Factor F ₁₁ | | Fa | riation actor - pv | Metered R (Mcfr | | GOR (Cubic F Barrel | eeV | Flowing Fluid Gravity G |
| | | | | | | | | | | | | | 31 | | | | |
| (P _c)² = | | | (P _w) ² : | _ | | (OPEN FL | | | ERABILITY | • | | ATIONS | | | |) ² = 0.2) ² = | 207 |
| (P _e) ² - (F or (P _e) ² - (F | - 1 | (F | ' _c)² - (P _w)² | Cho | 1. P ₀ ² - P ₀ ² 2. P ₀ ² - P ₀ ² 3. ded by: P ₀ ² - P ₀ ² | LOG of formula 1. or 2. and divide | P.2. P | $\overline{\ \ }$ | Backpre Slo | essur ppe = - or- ssign | e Curve "π" | , | rog | | Antilog | O De Equal | pen Flow iverability is R x Antilog (Mcfd) |
| Open Flor | w | | | | Mcfd @ 14. | 65 psia | | | Deliverat | bility | | | | | 1cld @ 14.65 ps | sla | |
| | | _ | ¥. | aid | report is true | | | | - | | | _ | he above r December | | and that he h | ÜÜ | 20 10 VSD |
| | | | For Com | | | <u> </u> | | | | | | | | Check | JA ad by | | 2011 |
| | | | | | | | | | | | | | | | CONSE | RVATIC (ICHIT/ | r DIVISION |

| | under penalty of perjury under the laws of the state of Kansas that I am authorized to request under Rule K.A.R. 82-3-304 on behalf of the operator Rosewood Resources, Inc. |
|---|--|
| and that the fo correct to the b of equipment in I hereby re | pregoing pressure information and statements contained on this application form are true and pest of my knowledge and belief based upon available production summaries and lease records installation and/or upon type of completion or upon use being made of the gas well herein named. Equest a one-year exemption from open flow testing for the Leonard 23-29 agrounds that said well: |
| [[[I further aç | 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 gree to supply to the best of my ability any and all supporting documents deemed by Commission sary to corroborate this claim for exemption from testing. |
| Date: 12/16/1 | 0 |
| | 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.

W2324 Leonard 23-29 North Goodland Goodland None February-10

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| | Casing | | | H | RS | REMARKS |
|-----------|--------|--------|-----|----|-----|---------------------------------|
| DATE | PSI | STATIC | MCF | D | OWN | (Maximum length 110 characters) |
| 2/1/2010 | 2 | 4 3 | 7 | 20 | 0 | cd |
| 2/2/2010 | 2 | 4 3 | 7 | 4 | 22 | |
| 2/3/2010 | 3 | 1 4 | 4 | 0 | 24 | |
| 2/4/2010 | 3 | 3 4 | 6 | 0 | 24 | |
| 2/5/2010 | 3 | 2 4 | 5 | 34 | 0 | |
| 2/6/2010 | 2 | 9 4 | 2 | 24 | 1.5 | |
| 2/7/2010 | 2 | 7 4 | 0 | 23 | 1 | |
| 2/8/2010 | 2 | 6 3 | 9 | 22 | 0 | |
| 2/9/2010 | 2 | 6 3 | 9 | 19 | 18 | opened up |
| 2/10/2010 | 2 | 7 4 | 0 | 4 | 24 | |
| 2/11/2010 | 3 | 3 4 | 6 | 0 | 24 | nb, meth |
| 2/12/2010 | 2 | 8 4 | 1 | 15 | 15 | |
| 2/13/2010 | 3 | 4 4 | 7 | 0 | 24 | |
| 2/14/2010 | 3 | 0 4 | 3 | 21 | 12 | |
| 2/15/2010 | 2 | 6 3 | 9 | 14 | 18 | |
| 2/16/2010 | 2 | 6 3 | 9 | 23 | 8 | |
| 2/17/2010 | 2 | 5 3 | 8 | 31 | 8 | |
| 2/18/2010 | 2 | 3 3 | 6 | 33 | 8 | |
| 2/19/2010 | 2 | 2 3 | 5 | 30 | 6 | |
| 2/20/2010 | 2 | 0 3 | 3 | 32 | 5 | |
| 2/21/2010 | 1 | 8 3 | 1 | 36 | 0 | |
| 2/22/2010 | ì | 7 3 | 0 | 35 | 0 | |
| 2/23/2010 | 1 | 6 2 | 9 | 32 | 1 | |
| 2/24/2010 | 1 | 5 2 | 8 | 31 | 0 | |
| 2/25/2010 | 1 | 5 2 | 8 | 29 | 1.5 | |
| 2/26/2010 | 1 | 6 2 | 9 | 23 | 5.5 | |
| 2/27/2010 | 1 | 5 2 | 8 | 32 | 1 | |
| 2/28/2010 | 1 | 5 2 | 8 | 31 | 0 | |
| 3/1/2010 | | 0 | 0 | 0 | 0 | |
| 3/2/2010 | | 0 | 0 | 0 | 0 | |
| 3/3/2010 | | 0 | 0 | 0 | 0 | |

Total 598

RECEIVED COMMISS OF AN 26 2011

CONSERVATION DIVISION WICHITA, KS

W2324 Leonard 23-29 North Goodland Goodland None March-10

| | Casing | | | HRS | | REMARKS |
|-----------|--------|--------|-----|------|-----|--------------------------------|
| DATE | PSI | STATIC | MCF | DOWN | | (Maximum length 110 characters |
| 3/1/2010 | 1 | 4 2 | 7 | 30 | 0 | |
| 3/2/2010 | 1 | 3 20 | 6 | 30 | 0 | |
| 3/3/2010 | 1 | 3 20 | 6 | 29 | 0 | |
| 3/4/2010 | 1 | 3 20 | 6 | 26 | 0 | |
| 3/5/2010 | 1. | 5 28 | 8 | 21 | 0 | |
| 3/6/2010 | 1. | 3 20 | 6 | 31 | 0 | |
| 3/7/2010 | 1. | 3 20 | 6 | 31 | 0 | |
| 3/8/2010 | 1: | 2 2: | 5 | 30 | 0 | |
| 3/9/2010 | 13 | 2 2: | 5 | 29 | 0 | |
| 3/10/2010 | 1: | 2 2: | 5 | 29 | 0 | |
| 3/11/2010 | 1 | 2 2: | 5 | 28 | 0 1 | bp |
| 3/12/2010 | 1 | 1 24 | 4 | 28 | 0 | |
| 3/13/2010 | 1 | 1 24 | 4 | 28 | 0 | |
| 3/14/2010 | 1 | 2 2: | 5 | 25 | 0 | |
| 3/15/2010 | 1: | 2 2: | 5 | 28 | 0 | |
| 3/16/2010 | 1 | 1 24 | 4 | 28 | 0 | |
| 3/17/2010 | 1 | 1 24 | 4 | 28 | 0 | |
| 3/18/2010 | 1 | 1 24 | 4 | 27 | 0 (| cal |
| 3/19/2010 | 1 | 1 24 | 4 | 26 | 0 1 | bp |
| 3/20/2010 | 1 | 1 24 | 4 | 27 | 0 | |
| 3/21/2010 | 1 | 1 24 | 4 | 27 | 0 | |
| 3/22/2010 | 1 | 1 24 | 4 | 27 | 0 | |
| 3/23/2010 | 1 | 1 24 | 4 | 27 | 0 | |
| 3/24/2010 | 1 | 1 24 | 4 | 27 | 0 (| opened to 37mcf |
| 3/25/2010 | ! | 9 2: | 2 | 31 | 0 | |
| 3/26/2010 | ! | 9 2: | 2 | 30 | 0 | |
| 3/27/2010 | 1 | 9 2: | 2 | 29 | 0 | |
| 3/28/2010 | | 8 2 | 1 | 28 | 0 | |
| 3/29/2010 | | 8 2 | 1 | 28 | 0 | |
| 3/30/2010 | | 8 2 | 1 | 28 | 0 | |
| 3/31/2010 | | 9 2: | 2 | 26 | 0 | |

Total 867

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