RECEIVED

Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

| Type Test | | | | | | (| See Instruc | tions on Re | everse Sid | e) | | | | | |
|--|----------|---|----------------------------------|---|---|-----------------------------|---------------------------------------|--|--|----------------------------------|---|-----------------------------|--|-----------------------------|--|
| ✓ Open Flow✓ Deliverabilty | | | | | | Test Date | | | | API No. 15 15-075-20406-00-00 | | | | | |
| Company | · ' | | | • | | 11/21/13 | 3 | Lease | | 15- | 075-20406- | 00-00 | Well | Number | |
| Linn Operating Inc | | | | | HCU | | | DNO (E440) | | | 2431-B | | | | |
| County Location Hamilton C NE | | | | Section 24 | | TWP 23S | · · · · · · · · · · · · · · · · · · · | | IG (E/W) W | | 640 | s Attributed | | | |
| Field Bradshaw | | | | | Reservoir Winfield | | | | Gas Gathering Connection Oneok Field Services | | | | | | |
| Completic 2/15/88 | on Dat | | | | | Plug Bac 2705' | k Total Dep | th | | Packer | Set at | | | | |
| Casing Size Weight 5.5 14.00 | | | | | Internal D | Diameter | Set at 2744 | | Perforations 2475 | | то 2495 | | | | |
| Tubing Size 2 3/8 | | | Weig | Weight | | | Internal Diameter 1.995 | | Set at 2435 | | Perforations | | То | | |
| Type Completion (Describe) Single Gas | | | | | | d Productio Water | ' | Р | | Pump Unit or Traveling Plur | | unger? Yes / No Yes | | | |
| Producing | | (An | nulus / Tubir | ng) | | % C | Carbon Diox | ide | | % Nitrog | gen | | as Gravity | - G _g | |
| Vertical D | | 1) | • | | | | | sure Taps | | | | (M | leter Run) | (Prover) Size | |
| 2729' | | | 11 | /20 | | 12 1 | Flan | | 1 | 1/01 | | | .067" | | |
| Pressure | Buildu | • | | | , | | | | | | 20 | | | | |
| Well on L | ine: | | Started | | 2 | 0 at | - | (AM) (PM) | Taken | | 20 | at | | (AM) (PM) | |
| | | - | | | | | OBSERVE | D SURFAC | E DATA | · | | Duration of | Shut-in _2 | 24 Hours | |
| Static / Orifice Dynamic Size Property (inches | | е | Meter Prover Pressure | | Pressure Differential in Inches H ₂ 0 | Flowing Temperature t | Well Head Temperature t | Casing Wellhead Pressure (P _w) or (P _t) or (P _c) | | Wellhe | Tubing ead Pressure or (P ₁) or (P _c) | Duration (Hours) | i Li | iquid Produced (Barrels) | |
| Shut-in | | | poig (i iii) | | 11101103 1120 | | | psig 42 | 56.4 | Pump | psia | 24 | | | |
| Flow | | | | | | | | | | | | | | | |
| | | | | | | | FLOW STE | REAM ATTE | RIBUTES | | | | · · · · · · · · · · · · · · · · · · · | | |
| Plate Coeffiecient (F _b) (F _p) Mcfd | | Circle one: Meter or Prover Pressure psia | | Press Grav Extension Fact ✓ P _m xh F ₀ | | tor Temperature | | Fa | viation actor F _{pv} | Metered Flor R (Mcfd) | (Cu | GOR bic Feet/ Barrel) | Flowing Fluid Gravity G _m | | |
| | | | | 1 | · | · | | | | | | | | | |
| (P _c) ² = | | _: | (P _w) ² : | = | : | P _d = | OW) (DELIV | | <mark>/) CALCUI</mark> P _c - 14.4) + | | : | | $(P_a)^2 = (P_d)^2 = (P_d$ | | |
| $(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$ | | (P _c) ² - (P _w) ² | | ose formula 1 or 2: $ P_c^2 - P_a^2 $ | | Backpre Slo | | essure Curve ope = "n" or ssigned dard Slope | l n x | LOG | Antilog | | Open Flow Deliverability uals R x Antilog (Mcfd) | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | , | | | | ٠ | | | |
| Open Flor | w . | | | | Mcfd @ 14. | 65 psia | | Deliverat | bility | | | Mcfd @ 14.6 | 55 psia | | |
| The u | undersi | igne | d authority, o | on b | ehalf of the | Company, s | states that h | ne is duly a | | | ne above repo | ort and that h | ne has kn | owledge of | |
| the facts si | tated ti | nerei | in, and that s | aid | report is true | and correc | t. Executed | this the 2 | | | ecember | | | , ₂₀ <u>13</u> . | |
| | | | Witness | (if an | v) . | | | | SN | ans | | eller Company | | | |
| | | | | | • | | | | | | | | KCC | WICHIT | |
| | | | For Com | missio | n | | | | | | Che | cked by | DEC | 1 3 2013 | |

| 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 Linn Operating, 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 HCU 2431-B 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: /2/2/13 |
| Signature: Man Hierrer |
| Title: _Regulatory Compliance Advisor |

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.

DEC 13 2013
RECEIVED