

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Form G-2
(Rev 8/98)

Type Test:

- Open Flow
 Deliverability **WHSIP**

Test Date: 11/4/12

API No. 15-075-20220 - 0000

| | | | | | |
|---|-----------------------|---|------------------------|---|--|
| Company LINN OPERATING, INC. | | Lease HCU | | Well Number 2322 | |
| County HAMILTON | Location SE | Section 23 | TWP 22S | RNG (E/W) 42W | Acres Attributed |
| Field BRADSHAW | | Reservoir WINFIELD | | Gas Gathering Connection ONEOK FIELD SERVICES | |
| Completion Date 9/11/98 | | Plug Back Total Depth 2580' | | Packer Set at | |
| Casing Size 4-1/2" | Weight 9.50 | Internal Diameter 4.090" | Set at 2700' | Perforations 2552' | To 2561' |
| Tubing Size 2-3/8" | Weight 4.7 | Internal Diameter 1.995 | Set at 2492' | Perforations | To |
| Type Completion (Describe) Single Gas | | Type Fluid Production Gas - Water | | Pump Unit or Traveling Plunger? Pump | Yes / No Yes |
| Producing Thru (Annulus/Tubing) Annulus | | %Carbon Dioxide | | % Nitrogen | Gas Gravity - G _n 0.808 |
| Vertical Depth (H) 2557' | | Pressure Taps Flange | | (Meter Run)(Prover) Size 2.067" | |
| Pressure Buildup: | Shut In | <u>11/3</u> | 20 <u>12</u> at | <u>6:30</u> (AM)(PM) | Taken |
| Well on line: | Started | | 20 ___ at | ___ (AM)(PM) | Taken |
| | | | | | 20 ___ at ___ (AM)(PM) |

OBSERVED SURFACE DATA

Duration of Shut-In 24.00

| Static/ Dynamic Property | Orifice Size Inches | Circle one: Meter or Prover Pressure psig | Pressure Differential in (h) Inches H ₂ O | Flowing Temperature t | Well Head Temperature t | Casing Wellhead Pressure (P _w) or (P ₁) or (P _c) | | Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c) | | Duration (Hours) | Liquid Produced (Barrels) |
|--------------------------------|---------------------------|--|---|-----------------------------|-------------------------------|--|------|--|------|---------------------|------------------------------|
| | | | | | | psig | psia | psig | psia | | |
| Shut-In | | | | | | 5.0 | 19.4 | Pump | | 24.00 | |
| Flow | | | | | | | | | | | |

FLOW STREAM ATTRIBUTES

| Plate Coefficient (F _b)(F _p) Mcf/d | Meter Pressure psia | Press. Extension $\sqrt{P_m \times H_w}$ | Gravity Factor F _g | Flowing Temperature Factor F _{tt} | Deviation Factor F _{pv} | Metered Flow R (Mcf/d) | GOR (Cubic Feet/ Barrel) | Flowing Fluid Gravity G _m |
|---|---------------------------|--|-------------------------------------|---|--|------------------------------|--------------------------------|---|
| | | | | | | | | |

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

RECEIVED

DEC 31 2012

KCC WICHITA

(P_a)² = _____ (P_w)² = _____ : P_d = _____ % (P_c - 14.4) + 14.4 = _____ (P_a)² = 0.207
(P_d)² = _____

| $(P_c)^2 - (P_a)^2$ | $(P_c)^2 - (P_w)^2$ | $\frac{P_c^2 - P_a^2}{(P_c)^2 - (P_w)^2}$ | LOG $\left[\frac{(P_c)^2 - (P_a)^2}{(P_c)^2 - (P_w)^2} \right]$ | Backpressure Curve Slope = "n" | n x LOG $\left[\frac{(P_c)^2 - (P_a)^2}{(P_c)^2 - (P_w)^2} \right]$ | Antilog | Open Flow Deliverability Equals R x Antilog |
|---------------------|---------------------|---|--|-----------------------------------|--|---------|---|
| | | | | | | | |

Open Flow Mcfd @ 14.65 psia Deliverability Mcfd @ 14.65 psia

The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct. Executed this the 26th day of December, 2012

Witness (if any)

For Company

For Commission

Checked by

Stacey Usher

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 information and statements contained in 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 2322 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 incapable 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: 12/26/2012

Signature: Stacey Usher
Title: Administrative Assistant II

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 obtain exempt status for the gas well.

At some point during the succeeding 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 from 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. it was a verified report of test results.