


KANSAS CORPORATION COMMISSION
ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST
(See Instructions on Reverse Side)

Form G-2
 (Rev 8/98)

Type Test:

- Open Flow
 Deliverability **WHSIP**

Test Date: 11/2/11

API No. 15-075-00023 - 

| | | | | | | | | |
|---|--------------------------|------------------------------------|---|------------------------------|--|---|----------------------------------|----------------------|
| Company LINN OPERATING, INC. | | | Lease HCU | | | Well Number 1641 | | |
| County HAMILTON | Location NE NE | Section 16 | TWP 24S | RNG (E/W) 41W | Acres Attributed | | | |
| Field BRADSHAW | | | Reservoir WINFIELD | | | Gas Gathering Connection ONEOK FIELD SERVICES | | |
| Completion Date 12/26/59 | | | Plug Back Total Depth | | | Packer Set at | | |
| Casing Size 4-1/2" | Weight 9.50 | Internal Diameter 4.090" | Set at 2416' | Perforations 2305' | To 2320' | | | |
| Tubing Size 1.660" | Weight 2.30 | Internal Diameter 1.286" | Set at 2356' | 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. 0.818 | |
| Vertical Depth (H) 2312' | | | Pressure Taps Flange | | | (Meter Run) (Prover) Size 2.067" | | |
| Pressure Buildup: | Shut In | <u>11/1</u> | 20 <u>11</u> at | <u>3:30</u> (AM)(PM) | Taken | <u>11/2</u> | 20 <u>11</u> at | <u>3:30</u> (AM)(PM) |
| Well on line: | Started | | 20 <u> </u> at | <u> </u> (AM)(PM) | Taken | | 20 <u> </u> at | <u> </u> (AM)(PM) |

OBSERVED SURFACE DATA

| 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 | | | | | | 36.0 | 50.4 | Pump | | 24.00 | |
| Flow | | | | | | | | | | | |

FLOW STREAM ATTRIBUTES

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

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

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

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

RECEIVED
DEC 05 2011

Open Flow Mcfd @ 14.65 psia Deliverability Mcfd @ 14.65 psia **KCC WICHITA**

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 3rd day of November, 2011.

 Witness (if any)

 For Commission

 For Company

 Checked 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 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.

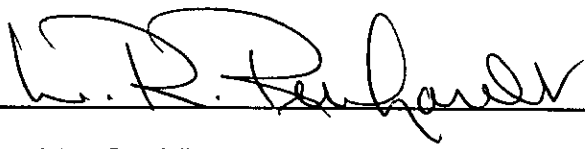
I hereby request a one-year exemption from open flow testing for the HCU 1641 gas well on the grounds that said well:

(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: 11/3/2011

Signature: 
Title: Regulatory Specialist

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.