

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: 10/5/12

API No. 15-075-10019 - 0000

Company LINN OPERATING, INC.		Lease HCU		Well Number 3111	
County HAMILTON	Location C SW NE	Section 31	TWP 21S	RNG (E/W) 41W	Acres Attributed
Field BRADSHAW		Reservoir Winfield		Gas Gathering Connection Oneok Field Services	
Completion Date 7/17/62		Plug Back Total Depth 2801'		Packer Set at	
Casing Size 4-1/2"	Weight 9.50	Internal Diameter 4.090"	Set at 2804'	Perforations 2756'	To 2757'
Tubing Size 2-3/8"	Weight 4.7	Internal Diameter 1.995	Set at 2788'	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 0.776
Vertical Depth (H) 2804'		Pressure Taps Flange		(Meter Run)(Prover) Size 2.067"	
Pressure Buildup:	Shut In	<u>10/4</u>	20 <u>12</u> at	<u>8:30</u> (AM)(PM)	Taken
Well on line:	Started		20 ___ at	(AM)(PM)	Taken

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 _i) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _i) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						25.0	39.4	Pump		24.00	
Flow											

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _s)(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 _{pv}	Metered Flow R (Mcf/d)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_d)² = 0.207

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

(P _i) ² - (P _d) ²	(P _i) ² - (P _w) ²	$\frac{P_c^2 - P_d^2}{(P_i)^2 - (P_w)^2}$	LOG $\left[\frac{(P_i)^2 - (P_d)^2}{(P_i)^2 - (P_w)^2} \right]$	Backpressure Curve Slope = "n"	n x LOG $\left[\frac{(P_i)^2 - (P_d)^2}{(P_i)^2 - (P_w)^2} \right]$	Antilog	Open Flow Deliverability Equals R x Antilog

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KCC WICHITA
Mcf/d @ 14.65 psia

Open Flow **Mcf/d @ 14.65 psia** Deliverability **Mcf/d @ 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 Commission

Stacey Usher
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 3111 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 Lisher
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.