

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

Form G-2
 (Rev 8/88)

Type Test:

☐ Open Flow
☒ Deliverability **WHSIP**

Test Date: 9/29/12

API No. 15-075-20229 -00-00

Company LINN OPERATING, INC.				Lease HCU				Well Number 0921-B			
County HAMILTON		Location NE SW		Section 9		TWP 22S		RNG (E/W) 41W		Acres Attributed	
Field BRADSHAW				Reservoir WINFIELD				Gas Gathering Connection ONEOK FIELD SERVICES			
Completion Date 9/15/79				Plug Back Total Depth 2771'				Packer Set at			
Casing Size 4-1/2"		Weight 9.50		Internal Diameter 4.090"		Set at 2807'		Perforations 2758'		To 2766'	
Tubing Size 2-3/8"		Weight 4.7		Internal Diameter 1.995		Set at 2722		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 0.770	
Vertical Depth (H) 2762'				Pressure Taps Flange				(Meter Run) (Prover) Size 2.067"			
Pressure Buildup:		Shut In		09/28		20 12 at		9:00 (AM)(PM)		Taken	
Well on line:		Started				20 at		(AM)(PM)		Taken	

OBSERVED SURFACE DATA

Duration of Shut-In 24

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						35.0	49.4	Pump		24	
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 _t	Deviation Factor F _{pv}	Metered Flow R (Mcf/d)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

$(P_c)^2 =$ _____ $(P_w)^2 =$ _____ : $P_o =$ _____ % $(P_c - 14.4) + 14.4 =$ _____ : $(P_a)^2 =$ 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"	$n \times \text{LOG} \left[\frac{(P_c)^2 - (P_a)^2}{(P_c)^2 - (P_w)^2} \right]$	Antilog	Open Flow Deliverability Equals R x Antilog

Open Flow

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 4th day of December, 2012

Witness (if any)

For Commission

For Company

Checked by

RECEIVED

DEC 07 2012

KCC WICHITA

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 0921B 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: 12/4/2012

Signature: Stacey L. Wether
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.