


**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: 11/8/11

API No. 15-075-20767 - 

Company		Lease		Well Number	
LINN OPERATING, INC.		HCU		3631-C	
County	Location	Section	TWP	RNG (E/W)	Acres Attributed
HAMILTON	SW NE NE	36	23S	41W	640
Field		Reservoir	Gas Gathering Connection		
BRADSHAW		WINFIELD	ONEOK FIELD SERVICES		
Completion Date		Plug Back Total Depth	Packer Set at		
10/3/01		2518'			
Casing Size	Weight	Internal Diameter	Set at	Perforations	To
4-1/2"	10.5	4.052"	2565'	2440'	2459'
Tubing Size	Weight	Internal Diameter	Set at	Perforations	To
2-3/8"	4.7	1.995	2492'		
Type Completion (Describe)		Type Fluid Production	Pump Unit or Traveling Plunger?	Yes / No	
SINGLE GAS		GAS - WATER	PUMP	YES	
Producing Thru (Annulus/Tubing)		%Carbon Dioxide	% Nitrogen	Gas Gravity - G.	
ANNULUS				.770	
Vertical Depth (H)		Pressure Taps	(Meter Run)(Prover) Size		
2450'		FLANGE	2.064"		
Pressure Buildup:	Shut In	20 11 at	9:00 (AM)(PM)	Taken	20 11 at 9:00 (AM)(PM)
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 <sub>2</sub> O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> )		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						29.0	43.4	pump		24.00	
Flow											

**FLOW STREAM ATTRIBUTES**

Plate Coefficient (F <sub>b</sub> )(F <sub>p</sub> ) Mcf/d	Meter Pressure psia	Press. Extension $\sqrt{P_m \times H_w}$	Gravity Factor F <sub>g</sub>	Flowing Temperature Factor F <sub>t</sub>	Deviation Factor F <sub>ov</sub>	Metered Flow R (Mcf/d)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G <sub>m</sub>

**(OPEN FLOW) (DELIVERABILITY) CALCULATIONS**

$(P_e)^2 =$  \_\_\_\_\_  $(P_w)^2 =$  \_\_\_\_\_  $P_d =$  \_\_\_\_\_ %  $(P_c - 14.4) + 14.4 =$  \_\_\_\_\_ :  $(P_e)^2 =$  0.207  
 $(P_e)^2 =$  \_\_\_\_\_

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

Open Flow \_\_\_\_\_ Mcfd @ 14.65 psia      Deliverability 0.00      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 9th day of November, 2011.

\_\_\_\_\_  
 Witness (if any)

  
 For Company

\_\_\_\_\_  
 For Commission

\_\_\_\_\_  
 Checked by

**RECEIVED**

**DEC 08 2011**

**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 3631-C 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: 11/9/2011

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.