

**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: 10/28/11

API No. 15-075-20452 - 0000

Company <b>LINN OPERATING, INC.</b>			Lease <b>HCU</b>			Well Number <b>0241-B</b>		
County <b>HAMILTON</b>	Location <b>SE</b>	Section <b>2</b>	TWP <b>24S</b>	RNG (E/W) <b>41W</b>	Acres Attributed			
Field <b>BRADSHAW</b>		Reservoir <b>Winfield</b>		Gas Gathering Connection <b>ONEOK FIELD SERVICES</b>				
Completion Date <b>6/23/90</b>		Plug Back Total Depth <b>2399'</b>			Packer Set at			
Casing Size <b>4-1/2"</b>	Weight <b>9.50</b>	Internal Diameter <b>4.090"</b>	Set at <b>2457'</b>	Perforations <b>2311'</b>	To <b>2320'</b>			
Tubing Size <b>2-3/8"</b>	Weight <b>4.7</b>	Internal Diameter <b>1.995</b>	Set at <b>2285'</b>	Perforations To				
Type Completion (Describe) <b>Single Gas</b>		Type Fluid Production <b>Gas - Water</b>		Pump Unit or Traveling Plunger? <b>Pump</b>		Yes / No <b>Yes</b>		
Producing Thru (Annulus/Tubing) <b>Annulus</b>		%Carbon Dioxide		% Nitrogen		Gas Gravity - G. <b>.795</b>		
Vertical Depth (H) <b>2316'</b>		Pressure Taps <b>Flange</b>			(Meter Run) (Prover) Size <b>2.067"</b>			
Pressure Buildup:	Shut In	<u>10/27</u>	20 <u>11</u> at	<u>7:00</u> (AM)(PM)	Taken	<u>10/28</u>	20 <u>11</u> at	<u>7:00</u> (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						44	58.4	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<sub>a</sub>)<sup>2</sup> = \_\_\_\_\_ (P<sub>w</sub>)<sup>2</sup> = \_\_\_\_\_ : P<sub>d</sub> = \_\_\_\_\_ % (P<sub>c</sub> - 14.4) + 14.4 = \_\_\_\_\_ : (P<sub>a</sub>)<sup>2</sup> = 0.207  
 (P<sub>a</sub>)<sup>2</sup> = \_\_\_\_\_ (P<sub>w</sub>)<sup>2</sup> = \_\_\_\_\_ : P<sub>d</sub> = \_\_\_\_\_ % (P<sub>c</sub> - 14.4) + 14.4 = \_\_\_\_\_ : (P<sub>a</sub>)<sup>2</sup> = \_\_\_\_\_

(P <sub>a</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	$\frac{P_c^2 - P_a^2}{(P_c)^2 - (P_w)^2}$	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 **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 31st day of October, 2011

Witness (if any)

*L.R. [Signature]*  
 For Company

**RECEIVED**

For Commission

Checked by

**DEC 01 2011**

**KCC WICHITA**

