KANSAS CORPORATION COMMISSION
ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Form G-2
(Rev 8/98)

(See Instructions on Reverse Side)

Type Test:
☐ Open Flow
☒ Deliverability WHSIP

Test Date: 11/1/11

API No. 15-075-20456 - 0000

Company	Lease	Well Number
LINN OPERATING	HCU	0820-B

County	Location	Section	TWP	RNG (E/W)	Acres Attributed
HAMILTON	C NE	8	22S	40W	

Field	Reservoir	Gas Gathering Connection
BRADSHAW	WINFIELD	ONEOK FIELD SERVICES

Completion Date	Plug Back Total Depth	Packer Set at
6/17/90	2831'	

Casing Size	Weight	Internal Diameter	Set at	Perforations	To
4-1/2"	9.50	4.090"	2767'	2732'	2752'

Tubing Size	Weight	Internal Diameter	Set at	Perforations	To
2-3/8"	4.7	1.995	2663'		

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_g
ANNULUS			.759

Vertical Depth (H)	Pressure Taps	(Meter Run) (Prover) Size
2742'	FLANGE	2.067"

Pressure Buildup: Shut In 10/31 20 11 at 10:00 (AM)~~(PM)~~ Taken 11/1 20 11 at 10:00 (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_2O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P_W) or (P_t) or (P_C) psig	Casing Wellhead Pressure psia	Tubing Wellhead Pressure (P_W) or (P_t) or (P_C) psig	Tubing Wellhead Pressure psia	Duration (Hours)	Liquid Produced (Barrels)
Shut-In						78.0	92.4	pump		24.00	
Flow											

FLOW STREAM ATTRIBUTES

Plate Coefficient (F_b)(F_p) Mcfd	Meter Pressure psia	Press. Extension $\sqrt{P_m \times H_w}$	Gravity Factor F_g	Flowing Temperature Factor F_{ft}	Deviation Factor F_{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G_m

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

$(P_c)^2$= _____ $(P_w)^2$ = _____ P_d= _____ % $(P_c - 14.4) + 14.4$ = _____ : $(P_a)^2$ = _____ $(P_d)^2$ = _____

$(P_c)^2 - (P_a)^2$	$(P_c)^2 - (P_w)^2$	$\frac{P_c^2 - P_a^2}{(P_c)^2 - (P_w)^2}$	LOG $\left[\frac{(P_c)^2-(P_a)^2}{(P_c)^2-(P_w)^2}\right]$	Backpressure Curve Slope = "n"	n 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 Mcfd @ 14.65 psia Deliverability 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 2nd day of November, 20 11

Witness (if any) For Company

For Commission Checked by

RECEIVED
DEC 01 2011
KCC WICHITA

Form G-2
(Rev 8/98)

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 820-B 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. _____
- [X] 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: 11/2/2011

Signature: W. R. Buchanan

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 measued 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.