Form G-2
July 2014

KANSAS CORPORATION COMMISSION
ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:
☐ Open Flow
☑ Deliverabilty

(See Instructions on Reverse Side)

Test Date: 7/19/15

API No. 15: 15-007-23297-00-00

Company	Lease	Well Number
WOOLSEY OPERATING COMPANY, LLC	Z BAR CATTLE COMPANY	7

County	Location	Section	TWP	RNG (E/W)	Acres Attributed
BARBER	NE NE	30	34S	14W	

Field	Reservoir	Gas Gathering Connection
AETNA	MISSISSIPPIAN	ONEOK

Completion Date	Plug Back Total Depth	Packer Set at
7/7/08	5403	NONE

Casing Size	Weight	Internal Diameter	Set at	Perforations	To
4.500	10.50	4.052	5445	4778	4862

Tubing Size	Weight	Internal Diameter	Set at	Perforations	To
2.375	4.70	1.995	4909	OPEN	

Type Completion (Describe)	Type Fluid Production	Pump Unit or Traveling Plunger? Yes / No
SINGLE	WATER	PUMPING

Producing Thru (Annulus / Tubing)	% Carbon Dioxide	% Nitrogen	Gas Gravity - G_g
ANNULUS			

Vertical Depth(H)	Pressure Taps	(Meter Run) (Prover) Size
4820		

Pressure Buildup: Shut in 7/18/15 20 ___ at _____ (AM) (PM) Taken 7/19/15 20 ___ at _____ (AM) (PM)

Well on Line: Started _____ 20 ___ at _____ (AM) (PM) Taken _____ 20 ___ at _____ (AM) (PM)

OBSERVED SURFACE DATA Duration of Shut-in _____ Hours

Static / Dynamic Property	Orifice Size (inches)	*Circle one: Meter Prover Pressure* psig (Pm)	Pressure Differential in Inches H_2O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P_w) or (P_t) or (P_c) psig	Casing psia	Tubing Wellhead Pressure (P_w) or (P_t) or (P_c) psig	Tubing psia	Duration (Hours)	Liquid Produced (Barrels)
Shut-In	.625					190		220		24	
Flow											

FLOW STREAM ATTRIBUTES

Plate Coeffiecient (F_b) (F_p) Mcfd	*Circle one: Meter or Prover Pressure* psia	Press Extension $\sqrt{P_m x h}$	Gravity Factor F_g	Flowing Temperature Factor F_{tt}	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 = _____ % $(P_c - 14.4) + 14.4$ = _____ : $(P_a)^2$ = 0.207 $(P_d)^2$ = _____

$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$	$(P_c)^2 - (P_w)^2$	*Choose formula 1 or 2:* 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ *divided by:* $P_c^2 - P_w^2$	LOG of formula 1. or 2. *and divide by:* $P_c^2 - P_w^2$	Backpressure Curve Slope = "n" ---or--- Assigned Standard Slope	n x LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)

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 9 day of OCTOBER, 20 15.

Received
KANSAS CORPORATION COMMISSION
OCT 16 2015
CONSERVATION DIVISION
WICHITA, KS

Witness (if any)

For Company

For Commission

Checked by

Form G-2
(Rev. 7/03)

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 WOOLSEY OPERATING CO, LLC and that the foregoing pressure information and statements contained on 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 Z-BAR 7 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: 10/9/15

Signature: _____

Title: FIELD MGR.

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 claim exempt status for the gas well.

At some point during the current 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 for 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.