

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow
 Deliverability

(See Instructions on Reverse Side)

Test Date:
01/17/2015

API No. 15
15-007-24028-0000

Company Toto Energy, LLC		Lease Fritz		Well Number #20-1	
County Barber	Location E/2 SWSESE	Section 20	TWP 32S	RNG (E/W) 14W	Acres Attributed 640
Field N/A	Reservoir Douglas		Gas Gathering Connection Oneok		
Completion Date 10/02/2014		Plug Back Total Depth 5142		Packer Set at N/A	
Casing Size 5.5	Weight 15.5	Internal Diameter 4.950	Set at 5196	Perforations 2197	To 4207
Tubing Size 2.875	Weight 6.5	Internal Diameter 2.441	Set at 4160	Perforations N/A	To N/A
Type Completion (Describe) Perforate and Produce		Type Fluid Production SW		Pump Unit or Traveling Plunger? Yes / No Yes	
Producing Thru (Annulus / Tubing) Tubing		% Carbon Dioxide .1574		% Nitrogen 1.1537	
Vertical Depth(H) 5196		Pressure Taps Flange-Simplex Fitting			(Meter Run) (Prover) Size 2"
Pressure Buildup: Shut in <u>January 17</u> 20 <u>15</u> at <u>5pm</u> (AM) (PM) Taken <u>January 19</u> 20 <u>15</u> at <u>8am</u> (AM) (PM)					
Well on Line: Started <u>January 21</u> 20 <u>15</u> at <u>5pm</u> (AM) (PM) Taken <u>February 1</u> 20 <u>15</u> at <u>8am</u> (AM) (PM)					

OBSERVED SURFACE DATA

Duration of Shut-in 40 Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter or Prover Pressure psig (Pm)	Pressure Differential in Inches H ₂ O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P _i) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _i) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-in	1.375	-	36	-	-	820		240	N/A	24	0
Flow	1.375	120	36	73	75	240	834.7	N/A	254.7	24	518

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _s) (F _v) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension $\sqrt{P_m \times h}$	Gravity Factor F _g	Flowing Temperature Factor F _t	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_o)² = _____

(P _c) ² - (P _a) ² or (P _c) ² - (P _o) ²	(P _c) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _a ² 2. P _c ² - P _o ² divided by: P _o ² - P _w ²	LOG of formula 1, or 2, and divide by: $\left[\frac{P_c^2 - P_a^2}{P_o^2 - P_w^2} \right]$	Backpressure Curve Slope = "n" or Assigned Standard Slope	n x LOG $\left[\frac{P_c^2 - P_a^2}{P_o^2 - P_w^2} \right]$	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 22nd day of June 2015.

Witness (if any) _____ For Commission


 For Company

Received
KANSAS CORPORATION COMMISSION
JUN 26 2015
CONSERVATION DIVISION
WICHITA, KS

Checked by _____

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 Toto Energy, 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 Fritz #20-1 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

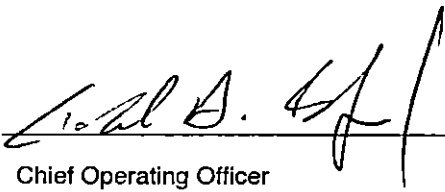
I further agree to supply to the best of my ability any and all supporting documents deemed by Commission staff as necessary to corroborate this claim for exemption from testing.

Date: June 22nd, 2015

Received
KANSAS CORPORATION COMMISSION

JUN 26 2015

CONSERVATION DIVISION
WICHITA, KS

Signature: 
Title: Chief Operating Officer

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.