

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

(See Instructions on Reverse Side)

- Open Flow
 Deliverability

Test Date:
5/1/2015

API No. 15
053-21124-0000

Company Trek AEC, LLC			Lease Reed		Well Number 1-27
County Ellsworth	Location NW SE SW NW	Section 27	TWP 16S	RNG (EW) 7W	Acres Attributed
Field Kanak		Reservoir Grand Haven		Gas Gathering Connection American Energies Pipeline	
Completion Date 04/27/2004		Plug Back Total Depth 1910 1910		Packer Set at 1720	
Casing Size 4.5	Weight 9.5	Internal Diameter 4.090	Set at 1908	Perforations 1816	To 1820
Tubing Size 2.375	Weight 4.7	Internal Diameter 1.995	Set at 1720	Perforations 1816	To 1820
Type Completion (Describe) Single Gas		Type Fluid Production Gas		Pump Unit or Traveling Plunger? Yes / No No	
Producing Thru (Annulus / Tubing) Tubing		% Carbon Dioxide 0.029	% Nitrogen 43.589	Gas Gravity - G _g .600	
Vertical Depth(H) Flange			Pressure Taps Flange		(Meter Run) (Prover) Size 2"
Pressure Buildup: Shut in <u>5/1</u> at <u>8:00 AM</u> (AM) (PM) Taken _____ at _____ (AM) (PM)					
Well on Line: Started <u>5/2</u> at <u>8:00 AM</u> (AM) (PM) Taken _____ at _____ (AM) (PM)					

OBSERVED SURFACE DATA

Duration of Shut-in 24 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	.375					225		30		24	0
Flow											

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _b) (F _p) 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 (Mcf/d)	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_g)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: $\left[\frac{P_c^2 - P_w^2}{P_c^2 - P_a^2} \right]$	Backpressure Curve Slope = "n" -----or----- Assigned Standard Slope	n x LOG $\left[\right]$	Antilog	Open Flow Deliverability Equals R x Antilog (Mcf/d)

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 the 5 day of July, 20 15.

Received
KANSAS CORPORATION COMMISSION


For Company

Witness (if any)

JUL 10 2015

Mark Bieker, Operations Director

For Commission

CONSERVATION DIVISION

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 Trek AEC, 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 Reed 1-27 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: 7/5/2015

Signature: Mark Bieker

Title: Mark Bieker, Operations Director

Received
KANSAS CORPORATION COMMISSION

JUL 10 2015

CONSERVATION DIVISION
WICHITA, KS

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.