

KANSAS CORPORATION COMMISSION

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow
 Deliverability

Test Date:
3/5/2015

API No. 15
15-175-22112 -00-01

Company Merit Energy Company		Lease Hatfield Etal Unit		Well Number 5-J22-31-33	
County Seward	Location 2119' FNL & 2529' FWL	Section 22	TWP 31S	RNG (E/W) 33W	Acres Attributed 640
Field Franz-Toland		Reservoir Morrow	Gas Gathering Connection APC		
Completion Date 04/069/2015		Plug Back Total Depth 5656	Packer Set at 5445		
Casing Size 5.5	Weight 17	Internal Diameter 4.950	Set at 5895	Perforations 5458	To 5476
Tubing Size	Weight	Internal Diameter	Set at	Perforations	To

Type Completion (Describe) Single Gas	Type Fluid Production Water/Comd,	Pump Unit or Travelling Plunger? Yes / No NO	
Producing Thru (Annulus / Tubing) Tubing	% Carbon Dioxide	% Nitrogen	Gas Gravity - G _g
Vertical Depth(H) 5900	Pressure Taps Pipe	(Meter Run) (Prover) Size 3	
Pressure Buildup: Shut in <u>3/5</u> 20 <u>15</u> at <u>9:00 AM</u> (AM) (PM) Taken <u>3/6</u> 20 <u>15</u> at <u>9:00 AM</u> (AM) (PM)	Well on Line: Started <u>20</u> at <u> </u> (AM) (PM) Taken <u>20</u> at <u> </u> (AM) (PM)		

OBSERVED SURFACE DATA

Static / Dynamic Property	Orifice - Size (Inches)	Circle one: Meter or Prover Pressure psig (P _m)	Pressure Differential in Inches H ₂ O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P _c) or (P _e)		Tubing Wellhead Pressure (P _w) or (P _c) or (P _e)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						710				24	
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 (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_e)² = 0.207
(P_o)² = _____

(P _c) ² - (P _w) ² or (P _c) ² - (P _d) ²	(P _o) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _d ² 2. P _c ² - P _w 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" 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 25th day of September, 20 15

KCC WICHITA Merit Energy Company

Witness (if any) _____ For Company
For Commission _____ Katherine McClurkan
Checked by _____

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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 Merit Energy Company 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 Hatfield Etal Unit 5-J22-31-33 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: 9/25/2015

KCC WICHITA
SEP 30 2015
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Signature: Katherine McClenkan

Title: Regulatory Analyst

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.