

KANSAS CORPORATION COMMISSION

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

(See Instructions on Reverse Side)

- Open Flow
 Deliverability

Test Date:
9/12/2015

API No. 15
15-081-10194-0004

Company MERIT ENERGY COMPANY			Lease COLLINGWOOD AJ			Well Number 5		
County HASKELL	Location 1980 FSL & 660 FWL	Section 4	TWP 29S	RNG (E/W) 34W	Acres Attributed			
Field EUBANK		Reservoir MORROW/KANSAS CITY		Gas Gathering Connection REGENCY				
Completion Date 03-06-1991		Plug Back Total Depth 5340		Packer Set at NA				
Casing Size 5.5	Weight 15.5#	Internal Diameter 4.95	Set at 5480	Perforations 4554	To 5304			
Tubing Size 2.375	Weight 4.7#	Internal Diameter 1.995	Set at 5176	Perforations NA	To NA			
Type Completion (Describe) COMMINGLED-GAS/OIL		Type Fluid Production SALTWATER		Pump Unit or Traveling Plunger? PUMP UNIT		Yes / No YES		
Producing Thru (Annulus / Tubing) ANNULUS		% Carbon Dioxide		% Nitrogen		Gas Gravity - G _g		
Vertical Depth(H) 4929		Pressure Taps FLANGE				(Meter Run) (Prover) Size METER RUN - 2"		
Pressure Buildup: Shut in 09/12		20 15 at 8:30 AM		(AM) (PM) Taken 09/13		20 15 at 8:30 AM		
Well on Line: Started _____		20 _____ at _____		(AM) (PM) Taken _____		20 _____ at _____		

OBSERVED SURFACE DATA

Duration of Shut-in **24** Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter 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	.75					100		0		24	
Flow											

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _p) (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_a)² = 0.207

(P_d)² = _____

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

(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: $\frac{P_c^2 - P_w^2}{P_c^2 - P_a^2}$	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 30th day of November, 20 15.

Witness (if any)

Received
KANSAS CORPORATION COMMISSION

Merit Energy Company

For Company
Katherine McClurkan

For Commission

DEC 02 2015

Checked by

CONSERVATION DIVISION
WICHITA, KS

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 Comapny 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 Collingwood AJ 5 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: 11/30/2015

Received
KANSAS CORPORATION COMMISSION

DEC 02 2015
CONSERVATION DIVISION
WICHITA, KS

Signature: Katherine McClurkan *Katherine McClurkan*
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.