

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

(See Instructions on Reverse Side)

- Open Flow
 Deliverability

Test Date:
09/20/2015

API No. 15
15-081-21347-0100

Company Merit Energy Company		Lease HUNGATE A			Well Number 7
County Haskell	Location 1350 FNL & 1850 FWL	Section 13	TWP 29S	RNG (E/W) 34W	Acres Attributed 640
Field KOENIG		Reservoir MARMATON/MORROW		Gas Gathering Connection Pioneer	
Completion Date 11/16/2000		Plug Back Total Depth 5550		Packer Set at NA	
Casing Size 5 1/2"	Weight 15.5#	Internal Diameter 4.950	Set at 5606	Perforations 4788	To 5422
Tubing Size 2 3/8	Weight 4.7#	Internal Diameter 1.995	Set at 5436	Perforations Open End	To
Type Completion (Describe) COMMINGLED-Oil/Gas		Type Fluid Production Crude/SW		Pump Unit or Travelling Plunger? Yes / No Pump Unit	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 5105		Pressure Taps Flange		(Meter Run) (Prover) Size Meter Run - 4"	
Pressure Buildup: Shut in 9/20 at 15 at 10:15 AM (AM) (PM) Taken 9/21 at 15 at 10:15 AM (AM) (PM)					
Well on Line: Started _____ at _____ (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 (P _m)	Pressure Differential in Inches H ₂ O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P _t) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						0		34		24	
Flow											

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _s) (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_s)² = 0.207

(P_g)² = _____

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

(P _c) ² - (P _s) ² or (P _g) ² - (P _s) ²	(P _g) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _s ² 2. P _c ² - P _g 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 31st day of November, 20 15.

Received _____
KANSAS CORPORATION COMMISSION

Merit Energy Company
For Company
Katherine McClurkan

Witness (if any) _____
For Commission

DEC 02 2015 12-02-2015

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 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 Hungate A #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: 11/30/2015

Received
KANSAS CORPORATION COMMISSION

DEC 02 2015

CONSERVATION DIVISION
WICHITA, KS

Signature: 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.