

# KANSAS CORPORATION COMMISSION

## ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow  
 Deliverability

(See Instructions on Reverse Side)

Test Date:  
1-8-15

API No. 15  
15-081-22081 - 00-00

Company MERIT ENERGY COMPANY LLC		Lease HUITT TRUST		Well Number 15-1	
County HASKELL	Location NE SE NW SE	Section 15	TWP 30S	RNG (E/W) 33W	Acres Attributed
Field VICTORY		Reservoir KANSAS CITY		Gas Gathering Connection ONEOK	
Completion Date 11-3-14		Plug Back Total Depth 5631 <b>C18P@ 5299</b>		Packer Set at NONE	
Casing Size 5.5	Weight 17.0	Internal Diameter 4.892	Set at 5670	Perforations 4622	To 4628
Tubing Size	Weight	Internal Diameter	Set at	Perforations	To
Type Completion (Describe) SINGLE GAS		Type Fluid Production NONE		Pump Unit or Traveling Plunger? Yes / No NO	
Producing Thru (Annulus / Tubing) ANNULUS		% Carbon Dioxide 0.070		% Nitrogen 17.240	
Vertical Depth(H) 4625		Pressure Taps FLANGE		(Meter Run) (Provor) Size 4.026"	
Pressure Buildup: Shut in 1-4-15		20 at 0830 (AM) (PM)		Taken 1-7-15	
Well on Line: Started 1-7-15		20 at 1000 (AM) (PM)		Taken 1-8-15	
		20 at 1000 (AM) (PM)		20 at 1000 (AM) (PM)	

### OBSERVED SURFACE DATA

Duration of Shut-in **72.0** Hours

Static / Dynamic Property	Orifice Size (Inches)	Casing or Meter Prover Pressure psig (Pm)	Pressure Differential in Inches H <sub>2</sub> O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>2</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>2</sub> )		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						555.4	569.8			72.0	
Flow	2.750	25.2	12.2	44	75	402.2	416.6			24.0	0

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>s</sub> ) (F <sub>p</sub> ) Mcfd	Casing or Meter or Prover Pressure psia	Press Extension $\sqrt{P_m \times h}$	Gravity Factor F <sub>g</sub>	Flowing Temperature Factor F <sub>t</sub>	Deviation Factor F <sub>pv</sub>	Metered Flow R (Mcfd)	GOR (Cubic Feet/Barrel)	Flowing Fluid Gravity G <sub>n</sub>
42.1494	39.60	21.98	1.1617	1.0157	1.0038	1097.3	NONE	0.741

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P<sub>c</sub>)<sup>2</sup> = 324.7 ; (P<sub>w</sub>)<sup>2</sup> = 173.8 ; P<sub>c</sub> = 73.2 % (P<sub>c</sub> - 14.4) + 14.4 = 569.8 ; (P<sub>n</sub>)<sup>2</sup> = 0.207  
(P<sub>d</sub>)<sup>2</sup> = \_\_\_\_\_

(P <sub>c</sub> ) <sup>2</sup> - (P <sub>s</sub> ) <sup>2</sup> or (P <sub>e</sub> ) <sup>2</sup> - (P <sub>d</sub> ) <sup>2</sup>	(P <sub>d</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	Choose formula 1 or 2: 1. P <sub>c</sub> <sup>2</sup> - P <sub>s</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> divided by: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	LOG of formula 1, or 2, and divide by: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	Backpressure Curve Slope = "n" Assigned Standard Slope	n x LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
324.46	150.90	2.150	0.3325	1.000	0.3325	2.1502	2359.44

Open Flow **2359** 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 8 day of JANUARY, 20 15.

Received  
KANSAS CORPORATION COMMISSION

*Precision Wire Line & Testing*  
For Company

Witness (if any)

**JAN 30 2015**

For Commission

Checked by

CONSERVATION DIVISION  
WICHITA, KS

Merit Energy Co. LLC - *Janna Burton*

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 \_\_\_\_\_ 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 \_\_\_\_\_ 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: \_\_\_\_\_

Signature: \_\_\_\_\_

Title: \_\_\_\_\_

**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.