KANSAS CORPORATION COMMISSION
ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST
(See Instructions on Reverse Side)

Type Test:

☐ Open Flow

☑ Deliverablity

Test Date: 10/29/2013

API No. 15
15-175-10005 - *0000*

Company MERIT ENERGY COMPANY	Lease DAVIES C	Well Number 1-31

County SEWARD	Location 660' FNL & 760' FEL	Section 31	TWP 33S	RNG (E/W) 31W	Acres Attributed 640

Field ARKALON	Reservoir LOWER MORROW	Gas Gathering Connection APC

Completion Date 10/24/1963	Plug Back Total Depth 5688	Packer Set at NA'

Casing Size 4.5	Weight 10.5 # & 9.5 #	Internal Diameter 4.09	Set at 5730'	Perforations 5636	To 5657'

Tubing Size 2.375	Weight 4.7	Internal Diameter 1.995	Set at 5654'	Perforations NA	To NA

Type Completion (Describe) SINGLE GAS	Type Fluid Production WATER	Pump Unit or Traveling Plunger? Yes / No NO

Producing Thru (Annulus / Tubing) TUBING	% Carbon Dioxide	% Nitrogen	Gas Gravity - G_g

Vertical Depth(H) 5668'	Pressure Taps PIPE	(Meter Run) (Prover) Size 4

Pressure Buildup: Shut in __10/28/2013__ 20 ___ at __1:30 PM__ (AM) (PM) Taken __10/29/13__ 20 ___ at __1:30 PM__ (AM) (PM)

Well on Line: Started _____ 20 ___ at _____ (AM) (PM) Taken _____ 20 ___ at _____ (AM) (PM)

OBSERVED SURFACE DATA

Duration of Shut-in _____ Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter Prover Pressure psig (Pm)	Pressure Differential in Inches H₂O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P_w) or (P_I) or (P_c) psig	Casing psia	Tubing Wellhead Pressure (P_w) or (P_I) or (P_c) psig	Tubing psia	Duration (Hours)	Liquid Produced (Barrels)
Shut-In	.875						42		18	24	
Flow											

FLOW STREAM ATTRIBUTES

Plate Coeffiecient (F_b) (F_p) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension √ P_m x h	Gravity Factor F_g	Flowing Temperature Factor F_{11}	Deviation Factor F_{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G_m

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

$(P_a)^2 = 0.207$

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

$(P_c)^2 - (P_a)^2$ 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: $P_c^2 - P_w^2$	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 __1st__ day of __November__, 20 __13__.

_____
Witness (if any)

_____
For Commission

Cheryl Patrick
_____
For Company

_____
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 DAVIES C-1-31

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: 11/01/2013

Signature: M Chuyaa

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.