

# KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

(See Instructions on Reverse Side)

- Open Flow  
 Deliverability

Test Date:  
July 21, 2013

API No. 15  
175-20243-0000

Company Barbour Energy Corporation		Lease McVey		Well Number 1	
County Seward	Location SE-SE	Section 8	TWP 33S	RNG (E/W) 31W	Acres Attributed
Field Kismet		Reservoir Council Grove		Gas Gathering Connection Barbour System to DCP Midstream	
Completion Date 01/03/1975		Plug Back Total Depth 2650		Packer Set at None	
Casing Size 4 1/2	Weight 9.5	Internal Diameter 4.090	Set at 3217	Perforations 2580-2591	To 2618-2630
Tubing Size 2 3/8	Weight 4.7	Internal Diameter 1.995	Set at 2593	Perforations	To
Type Completion (Describe) Single (Gas)		Type Fluid Production Water		Pump Unit or Traveling Plunger? <input checked="" type="radio"/> Yes <input type="radio"/> No Pump Unit	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 2586		Pressure Taps		Gas Gravity - G <sub>g</sub> .674	
				(Meter Run) (Prover) Size 2" (500#)(100")	
Pressure Buildup. Shut in July 17 2013 at 9:00 (AM) (PM) Taken July 21 2013 at 3:30 (AM) (PM)					
Well on Line: Started _____ 20____ at _____ (AM) (PM) Taken _____ 20____ at _____ (AM) (PM)					

### OBSERVED SURFACE DATA

Duration of Shut-in 100.5 Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one Meter or 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>i</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>i</sub> ) or (P <sub>c</sub> )		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						50					
Flow											

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd	Circle one 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>m</sub>

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

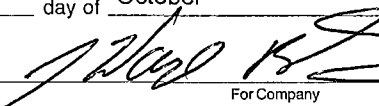
$(P_c)^2 =$  \_\_\_\_\_  $(P_w)^2 =$  \_\_\_\_\_  $P_d =$  \_\_\_\_\_ %  $(P_c - 14.4) + 14.4 =$  \_\_\_\_\_ :  $(P_a)^2 = 0.207$   
 $(P_d)^2 =$  \_\_\_\_\_

$(P_c)^2 - (P_a)^2$ 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 6 day of October, 20 14

\_\_\_\_\_  
Witness (if any)  
\_\_\_\_\_  
For Commission

  
 Received  
 KANSAS CORPORATION COMMISSION  
 OCT 09 2014  
 For Company \_\_\_\_\_  
 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 Barbour Energy Corporation 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 McVey #1 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: October 6, 2014

Signature:   
Title: President

**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. This form must be signed and dated on the front side as though it was a verified report of annual test results.

Received  
KANSAS DEPARTMENT OF REVENUE

OCT 09 2014

CONSERVATION DIVISION  
WICHITA, KS