

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

Type Test:

- Open Flow  
 Deliverability

(See Instructions on Reverse Side)

Test Date:  
August 16 2012

API No. 15  
15-175-20947-0000

Company Midwestern Exploration Co.		Lease Killion		Well Number 1-7	
County Seward	Location NE SE	Section 7	TWP 35S	RNG (E/W) 34W	Acres Attributed 640
Field Wide Awake		Reservoir Chester		Gas Gathering Connection Timberland	
Completion Date 04/21/1987		Plug Back Total Depth 6296		Packer Set at NA	
Casing Size 4.5	Weight 10.5	Internal Diameter	Set at 6590	Perforations 6264	To 6272
Tubing Size 2.375	Weight 4.7	Internal Diameter	Set at 6261	Perforations	To
Type Completion (Describe) Single gas		Type Fluid Production		Pump Unit or Traveling Plunger? Yes / No	
Producing Thru (Annulus / Tubing) Tubing		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 6268		Pressure Taps Flange		Gas Gravity - G <sub>g</sub> .719	
Pressure Buildup: Shut in 08/16 20 12 at 12:00 (AM) (PM)		Taken 08/17 20 12 at 12:00 (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 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>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> )		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-in						125		125		24	
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>11</sub>	Deviation Factor F <sub>pv</sub>	Metered Flow R (Mcf/d)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G <sub>m</sub>

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P<sub>a</sub>)<sup>2</sup> = 0.207

(P<sub>d</sub>)<sup>2</sup> = \_\_\_\_\_

(P<sub>c</sub>)<sup>2</sup> = \_\_\_\_\_ : (P<sub>w</sub>)<sup>2</sup> = \_\_\_\_\_ : P<sub>d</sub> = \_\_\_\_\_ % (P<sub>c</sub> - 14.4) + 14.4 = \_\_\_\_\_

(P <sub>c</sub> ) <sup>2</sup> - (P <sub>a</sub> ) <sup>2</sup> or (P <sub>c</sub> ) <sup>2</sup> - (P <sub>d</sub> ) <sup>2</sup>	(P <sub>c</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>a</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: $P_c^2 - P_w^2$	Backpressure Curve Slope = "n" ----- or ----- Assigned Standard Slope	n x LOG [ ]	Antilog	Open Flow Deliverability Equals R x Antilog (Mcf/d)

Open Flow \_\_\_\_\_ Mcfd @ 14.65 psia **2** Deliverability **2** 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 18 day of August, 20 12.

RECEIVED  
KANSAS CORPORATION COMMISSION

*[Signature]*  
For Company

Witness (if any)

For Commission

**OCT 23 2013**

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 Midwestern Exploration Co. 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 Killion #1-7 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: August 18, 2012

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

**RECEIVED**  
KANSAS CORPORATION COMMISSION

**OCT 23 2013**

CONSERVATION DIVISION  
WICHITA, KS

# Midwestern Exploration Gauge and Production Report

Lease: Killion #1-7 Month: August Year: 2012 Pumper: JR. Brungardt

Day	Tube	Case	Line Pressure	Diff.	MCF Day	Hrs. On	Water Day	Comments
2.	15	120	18	5	5		0	
3.	15	120	18	6	8		0	
4.	15	120	17	6	8		0	
5.	15	120	17	6	8		0	
6.	15	120	17	6	8		0	
7.	15	120	17	6	8		0	
8.	15	120	17	8	9		0	
9.	45	50	18	40	22		0	
10.	45	50	18	43	23		0	
11.	45	50	18	37	21		0	
12.	45	50	18	37	21		0	
13.	45	50	18	37	21		0	
14.	45	50	18	5	22		0	
15.	45	50	18	5	22		0	
16.	45	50	18	4	19		0	Shut in for 24 hr test
<b>Total volume for 1<sup>st</sup> half of month</b>					<b>225</b>		<b>0</b>	
17.	125	125	18	4	2		0	Put on line
18.	125	125	18	8	24		0	
19.	37	60	18	7	26		0	
20.	37	60	18	6	24		0	
21.	37	60	18	6	24		0	
22.	37	60	18	6	24		0	
23.	37	60	18	5	22		0	
24.	37	60	18	5	22		0	
25.	37	60	18	4	19		0	
26.	37	60	18	4	19		0	
27.	37	60	18	4	19		0	
28.	37	60	18	4	19		0	
29.	37	60	18	4	19		0	
30.	37	60	18	4	19		0	
31.	37	60	18	4	19		0	
1	37	60	18	4	19		0	
<b>Total volume for 2<sup>nd</sup> half of month</b>					<b>320</b>		<b>0</b>	

### PIPELINE RUNS

Date	Ticket #	Tank Number	From		To		Barrels	Gravity	BS&W
			Ft.	In.	Ft.	In.			

Notes: 545 mcf 800 8. water SI / down in test on 30 days

RECEIVED  
KANSAS CORPORATION COMMISSION

OCT 23 2013

CONSERVATION DIVISION  
WICHITA, KS