

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

(See Instructions on Reverse Side)

Type Test:

- Open Flow
 Deliverability

Test Date:
09/20/2012

API No. 15
15-175-21866-0000

Company Midwestern Exploration Co.		Lease City of Liberal		Well Number 2-10	
County Seward	Location NW NE/4	Section 10	TWP 33S	RNG (E/W) 32W	Acres Attributed
Field Morrow		Reservoir Morrow		Gas Gathering Connection Oneok	
Completion Date 03/14/02		Plug Back Total Depth 6007		Packer Set at NONE	
Casing Size 4.5	Weight 11.6	Internal Diameter 4	Set at 6055	Perforations 5702	To 5722
Tubing Size 2.375	Weight 4.7	Internal Diameter 1.99	Set at 5699	Perforations	To
Type Completion (Describe) Single		Type Fluid Production water		Pump Unit or Traveling Plunger? Yes / No NO	
Producing Thru (Annulus / Tubing) tubing		% Carbon Dioxide		% Nitrogen Gas Gravity - G _g .641	
Vertical Depth(H) 5712		Pressure Taps Flange		(Meter Run) (Prover) Size 3.068"	
Pressure Buildup: Shut in 09/19 20 12 at 12:00 (AM) (PM) Taken 09/20 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 (P _m)	Pressure Differential in Inches H ₂ O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P _i) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _i) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						23		0		24	
Flow											

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _a) (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 _{tt}	Deviation Factor F _{pv}	Metered Flow R (Mcf/d)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_a)² = 0.207
(P_d)² = _____

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

(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 (Mcf/d)

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 10 day of October, 20 13.

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KANSAS CORPORATION COMMISSION

[Signature] - President
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.

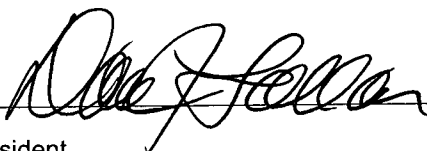
I hereby request a one-year exemption from open flow testing for the City of Liberal #2-10 gas well on the grounds that said well:

(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: 10/10/2013

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 verified report of annual test results.

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KANSAS CORPORATION COMMISSION

OCT 23 2013

CONSERVATION DIVISION
WICHITA, KS

Midwestern Exploration

Monthly Gauge Report

Lease:	Liberal 2-10	Gauger:	Brungardt Pumping
From:	2-Sep-12	To:	1-Oct-12

Date:	Meter		MCF	Hours	Tubing	Casing	Water		Prod.	Remarks:	
	Line	Dif					Feet	Inches			
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19							2	8		Put well on	
20	23	0.5	1			23	3	8	20.04		
21	24	1	3			25	4	6	16.7		
22	25	1	9			25	5	2	13.36	hauled water	
23	25	2	11			25	1	4	10.02		
24	23	0.2	8			25	1	7	5.01		
25	24	1.5	10			25	2	2	11.69		
26	24	2	12			25	2	10	10.02		
27	29	2	13			30	3	8	16.7		
28	30	1.5	12			30	4	8	20.04		
29	28	2	12			30	5	8	20.04	hauled water	
30	25	0.5	8			25	2	6	10.02		
31											
1	25	0.3	2			25	3	4	16.7		
Total Volume			101	Total Water Production				170.34			

KANSAS CORPORATION COMMISSION

OCT 23 2013
CONSERVATION DIVISION
WICHITA, KS

101 MCF DDD 170.34 water

On 12 days
SI 18 days for recompletions