

# KANSAS CORPORATION COMMISSION

## ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Received  
KANSAS CORPORATION COMMISSION

MAY 22 2015

CONSERVATION DIVISION  
WICHITA, KS

Type Test:

- Open Flow  
 Deliverability

Test Date:  
03-19-2015

API No. 15  
023-20271-0001

5-22-15

Company Prime Operating Company		Lease Ilene Raile		Well Number 1-27	
County Cheyenne	Location SENW	Section 27	TWP 3S	RNG (E/W) 42W	Acres Attributed 160
Field NW Cherry Creek		Reservoir Niobrara	Gas Gathering Connection Kinder Morgan		
Completion Date 3/27/91		Plug Back Total Depth 1643	Packer Set at N/A		
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.052"	Set at 1668.39'	Perforations 1500'	To 1532'
Tubing Size 2 3/8"	Weight 4.7#	Internal Diameter 2"	Set at 1574.24'	Perforations N/A	To
Type Completion (Describe) Singular (conventional)		Type Fluid Production Water	Pump Unit or Traveling Plunger? Yes / No Yes		
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide	% Nitrogen	Gas Gravity - G <sub>g</sub> .59	
Vertical Depth(H) 1668'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup:	Shut in 3-19	20 15	at 8:30 AM	(AM) (PM) Taken 3-19	20 15
					at 8:30 AM (AM) (PM)
Well on Line:	Started 3-20	20 15	at 4:45 PM	(AM) (PM) Taken 3-20	20 15
					at 4:45 PM (AM) (PM)

### OBSERVED SURFACE DATA

Duration of Shut-in 24 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>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						75					
Flow						10	14				

### 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>tt</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<sub>o</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>o</sub>)<sup>2</sup> = 0.207  
(P<sub>d</sub>)<sup>2</sup> = \_\_\_\_\_

(P <sub>o</sub> ) <sup>2</sup> - (P <sub>a</sub> ) <sup>2</sup> or (P <sub>e</sub> ) <sup>2</sup> - (P <sub>d</sub> ) <sup>2</sup>	(P <sub>o</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: $\left[ \frac{P_c^2 - P_w^2}{P_c^2 - P_a^2} \right]$	Backpressure Curve Slope = "n" ----- or ----- Assigned Standard Slope	n x LOG $\left[ \frac{P_c^2 - P_w^2}{P_c^2 - P_a^2} \right]$	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 12 day of May, 20 15.

\_\_\_\_\_  
Witness (if any)

\_\_\_\_\_  
For Company

\_\_\_\_\_  
For Commission

\_\_\_\_\_  
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 Prime Operating 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 Ilene Raile 1-27 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: May 12, 2015

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WICHITA, KS

Signature: 

Title: Tom Roelfs, Drlg/Production Foreman

**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.

Monthly Gauge Sheet

Well Name: Ilene Raile 1-27  
 Orifice Size: 2" X .375"

Month: February 2015

Day	Static	Diff	MCF	Wtr	TP	CP	SPM Cyle	Remarks
1	23	6	10	34	0	10	6/24	
2	23	10	13	29	0	10	5/24	
3	23	8	12	29	0	10	5/24	
4	23	9	12	29	0	10	5/24	
5	23	9	13	29	0	10	5/24	
6	23	9	13	29	0	10	5/24	
7	23	9	13	29	0	10	5/24	
8	23	7	13	29	0	10	5/24	
9	23	10	13	29	0	10	5/24	
10	23	10	13	29	0	10	5/24	
11	23	10	13	29	0	10	5/24	
12	23	10	13	29	0	10	5/24	
13	23	10	13	29	0	10	5/24	
14	23	10	13	29	0	10	5/24	
15	23	10	13	29	0	10	5/24	
16	23	10	13	29	0	10	5/24	
17	23	8	12	0	0	10	off	
18	23	10	13	29	0	10	5/24	
19	23	10	13	29	0	10	5/24	
20	23	8	12	0	0	10	off	
21	23	10	13	29	0	10	5/24	
22	23	9	13	0	0	10	off	
23	23	10	13	0	0	10	off	
24	23	8	12	0	0	10	off	
25	23	5	9	0	0	10	off	
26	23	10	13	45	0	10	5/24	
27	23	10	13	26	0	10	5/24	
28	23	10	13	26	0	10	5/24	
29								
30								
31								
TOTALS			352	653				

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Monthly Gauge Sheet

Well Name: Ilene Raile 1-27  
 Orifice Size: 2" X .375"

Mar-15

Day	Static	Diff	MCF	Wtr	TP	CP	SPM Cyle	Remarks
1	23	22	10	26	0	10	5/24	
2	23	17	18	26	0	10	5/24	
3	23	13	15	24	0	10	5/24	
4	23	13	15	0	0	10	off	
5	23	13	15	31	0	10	5/24	
6	23	14	16	31	0	10	5/24	
7	23	14	16	31	0	10	5/24	
8	23	15	16	31	0	10	5/24	
9	23	15	16	31	0	10	5/24	
10	23	16	17	31	0	10	5/24	
11	23	16	17	31	0	10	5/24	
12	23	14	16	0	0	10	off	
13	23	12	14	0	0	10	off	
14	23	12	14	0	0	10	off	
15	23	12	14	0	0	10	off	
16	23	10	12	0	0	10	off	
17	23	10	12	0	0	10	off	
18	23	8	12	30	0	10	5/24	
19	23	10	12	30	0	10	5/24	Shut In Pressure Built Up 8:30 AM
20	23	0	0	0	0	75	off	Open Well Up 4:45 PM
21	23	20	8	0	0	40	off	
22	23	20	19	0	0	10	off	
23	23	10	12	0	0	10	off	
24	23	10	12	25	0	10	5/24	
25	23	10	12	38	0	10	5/24	
26	23	12	14	34	0	10	5/24	
27	23	13	15	34	0	10	5/24	
28	23	13	15	34	0	10	5/24	
29	23	14	16	34	0	10	5/24	
30	23	14	16	34	0	10	5/24	
31	23	14	16	34	0	10	5/24	
TOTAL			432	620				

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Monthly Gauge Sheet

Well Name: Ilene Ralle 1-27  
 Office Size: 2" X .375"

Apr-15

Day	Static	Diff	MCF	Wtr	TP	CP	SPM Cyle	Remarks
1	23	15	16	30	0	10	5/24	
2	23	15	16	30	0	10	5/24	
3	23	15	16	30	0	10	5/24	
4	23	10	13	0	0	10	off	
5	23	10	13	0	0	10	off	
6	23	10	13	0	0	10	off	
7	23	13	15	23	0	10	5/24	
8	23	12	15	34	0	10	5/24	
9	23	14	16	34	0	10	5/24	
10	23	14	16	34	0	10	5/24	
11	23	15	16	34	0	10	5/24	
12	23	15	16	34	0	10	off	
13	23	14	16	17	0	10	off	
14	23	12	15	0	0	10	off	
15	23	12	15	0	0	10	off	
16	23	10	13	0	0	10	off	
17	23	10	13	34	0	10	5/24	
18	23	7	11	0	0	10	off	
19	23	7	11	0	0	10	off	
20	23	7	11	0	0	10	off	
21	23	8	12	0	0	10	off	
22	23	9	13	0	0	10	5/24	
23	23	13	15	20	0	10	5/24	
24	23	13	15	24	0	10	5/24	
25	23	13	15	24	0	10	5/24	
26	23	13	15	24	0	10	5/24	
27	23	13	15	24	0	10	5/24	
28	23	13	15	24	0	10	5/24	
29	23	13	15	24	0	10	5/24	
30	23	13	15	24	0	10	5/24	
31								
TOTAL			431	522				