

# KANSAS CORPORATION COMMISSION

## ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

(See Instructions on Reverse Side)

- Open Flow  
 Deliverability

Test Date:  
6/10/2013

API No. 15  
023-20271-0001

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 NA	
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 NA	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	
Vertical Depth(H) 1668'		Pressure Taps Flange		Gas Gravity - G <sub>g</sub> .59	
				(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 6/10		20 13 at 9:00 AM		(AM) (PM) Taken 6/10	
				20 13 at 9:00 AM (AM) (PM)	
Well on Line: Started 6/11		20 13 at 9:00 AM		(AM) (PM) Taken 6/11	
				20 13 at 1:00 PM (AM) (PM)	

### OBSERVED SURFACE DATA

Duration of Shut-in \_\_\_\_\_ Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter Prover Pressure psig (P <sub>m</sub> )	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>o</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>i</sub> ) or (P <sub>o</sub> )		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-in						75	89				
Flow						15	29				

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>p</sub> ) (F <sub>g</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

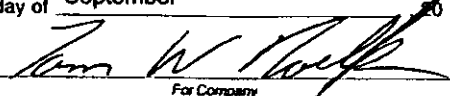
(P<sub>c</sub>)<sup>2</sup> = \_\_\_\_\_ ; (P<sub>w</sub>)<sup>2</sup> = \_\_\_\_\_ ; P<sub>d</sub> = \_\_\_\_\_ % ; (P<sub>c</sub> - 14.4) + 14.4 = \_\_\_\_\_ ; (P<sub>w</sub>)<sup>2</sup> = 0.207 ; (P<sub>d</sub>)<sup>2</sup> = \_\_\_\_\_

$\frac{(P_c)^2 - (P_d)^2}{(P_c)^2 - (P_w)^2}$	$\frac{(P_c)^2 - (P_w)^2}{(P_c)^2 - (P_d)^2}$	Choose formula 1 or 2: 1. $P_c^2 - P_d^2$ 2. $P_c^2 - P_w^2$ divided by: $P_w^2 - P_d^2$	LOG of formula 1. or 2. and divide by: $\frac{P_c^2 - P_w^2}{P_w^2 - P_d^2}$	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 30 day of September 2013

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For Company

Witness (if any)

For Commission

OCT 10 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 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: 9/30/2013

Signature: 

Title: Tom Roelfs, Drlg / Prod 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.

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Monthly Gauge Sheet

Well Name: Ilene Raile 1-27

Office Size: 2" X .375"

f

Day	Static	Diff	MCF	Wtr	TP
1	26	7	12	0	0
2	26	7	12	0	0
3	26	7	12	0	0
4	26	7	12	0	0
5	26	7	12	0	0
6	26	7	12	0	0
7	26	7	12	0	0
8	26	7	12	0	0
9	26	7	12	0	0
10	26	7	12	0	0
11	26	7	12	0	0
12	26	7	12	0	0
13	26	7	12	0	0
14	26	7	12	0	0
15	26	7	12	0	0
16	26	6	11	0	0
17	26	6	11	0	0
18	26	6	11	0	0
19	26	6	11	0	0
20	26	6	11	28	0
21	26	6	11	29	0
22	26	6	11	29	0
23	28	8	13	30	0
24	28	8	13	29	0
25	28	8	13	29	0
26	28	8	13	28	0
27	28	8	13	28	0
28	28	8	13	29	0
29	28	8	13	28	0
30	78	0	0	0	0
31	33	9	15	0	0
TOTALS			363	287	

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Month: May 2013

CP	SPM Cyle	Remarks
13	0//0	
13	0//0	
13	0//0	
13	0//0	
13	0//0	
13	0//0	
13	0//0	
13	0//0	
13	0//0	
13	0//0	
13	0//0	
13	0//0	
13	0//0	
13	0//0	
13	0//0	
13	0//0	
13	0//0	
13	0//0	
13	0//0	
13	0//0	
13	0//0	
13	5//24	
13	5//24	
13	5//24	
15	5//24	
15	5//24	
15	5//24	
15	5//24	
15	5//24	
15	5//24	
15	5//24	
15	5//24	
65	0//0	Compressor Down 24 hrs
20	0//0	

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Monthly Gauge Sheet

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

Month: June 201

Day	Static	Diff	MCF	Wtr	TP	CP
1	28	9	14	0	0	15
2	28	9	14	0	0	15
3	28	9	14	0	0	15
4	28	9	14	0	0	15
5	28	9	14	0	0	15
6	28	9	14	0	0	15
7	28	9	14	0	0	15
8	28	9	14	0	0	15
9	28	9	14	0	0	15
10	88	0	0	0	0	75
11	33	9	15	0	0	20
12	33	8	14	28	0	20
13	28	7	12	42	0	15
14	28	7	12	42	0	15
15	28	7	12	35	0	15
16	28	8	14	33	0	15
17	28	8	14	33	0	15
18	28	9	14	33	0	15
19	28	9	14	33	0	15
20	28	9	14	33	0	15
21	28	9	14	33	0	15
22	28	9	14	33	0	15
23	28	9	14	33	0	15
24	28	9	14	34	0	15
25	28	10	15	34	0	15
26	28	10	15	34	0	15
27	28	10	15	0	0	15
28	28	10	15	0	0	15
29	28	9	14	0	0	15
30	28	8	14	0	0	15
31						

TOTAL

391

513

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SPM Cycle	Remarks
0//0	
0//0	
0//0	
0//0	
0//0	
0//0	
0//0	
0//0	
0//0	Shut In Pressure Built UP
0//0	Shut In Pressure Built UP
0//0	
5//24	
5//24	
5//24	0
5//24	
5//24	
5//24	
5//24	
5//24	
5//24	
5//24	
5//24	
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5//24	
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0//0	
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0//0	

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