

# KANSAS CORPORATION COMMISSION

## ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

(See Instructions on Reverse Side)

- Open Flow  
 Deliverability

Test Date:  
5/15/2011

API No. 15  
023-20271-0001

Company <b>Prime Operating Company</b>			Lease Raile		Well Number 1-27
County <b>Cheyenne</b>	Location <b>SENW</b>	Section <b>27</b>	Twp <b>3S</b>	RNG (E/W) <b>42W</b>	Acres Attributed 160
Field <b>NW Cherry Creek</b>		Reservoir <b>Niobrara</b>	Gas Gathering Connection <b>Kinder Morgan</b>		
Completion Date <b>3/27/91</b>		Plug Back Total Depth <b>1643</b>	Packer Set at <b>NA</b>		
Casing Size <b>4 1/2"</b>	Weight <b>10.5#</b>	Internal Diameter <b>4.052"</b>	Set at <b>1668.39'</b>	Perforations <b>1500'</b>	To <b>1532'</b>
Tubing Size <b>2 3/8"</b>	Weight <b>4.7#</b>	Internal Diameter <b>2"</b>	Set at <b>1574.24'</b>	Perforations <b>NA</b>	To
Type Completion (Describe) <b>Singular (conventional)</b>		Type Fluid Production <b>Water</b>	Pump Unit or Traveling Plunger? Yes / No <b>Yes</b>		
Producing Thru (Annulus / Tubing) <b>Annulus</b>		% Carbon Dioxide	% Nitrogen	Gas Gravity - G <sub>g</sub> <b>.59</b>	
Vertical Depth(H) <b>1668'</b>		Pressure Taps <b>Flange</b>		(Meter Run) (Prover) Size <b>2"</b>	
Pressure Buildup: Shut in <b>5/15</b> 20 <b>11</b> at <b>8:00 AM</b> (AM) (PM) Taken <b>5/16</b> 20 <b>11</b> at <b>8:00 AM</b> (AM) (PM)					
Well on Line: Started <b>5/16</b> 20 <b>11</b> at <b>8:00 AM</b> (AM) (PM) Taken <b>5/17</b> 20 <b>11</b> at <b>12:00 PM</b> (AM) (PM)					

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### 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>2</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>2</sub> )		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						75	89				
Flow						20	34				

### 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>tt</sub>	Deviation Factor F <sub>pv</sub>	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G <sub>n</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>a</sub>)<sup>2</sup> = 0.207  
(P<sub>d</sub>)<sup>2</sup> = \_\_\_\_\_

(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 <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	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 3 day of November, 20 12

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

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

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

\_\_\_\_\_  
Checked by

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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: 11/3/12

Signature: 

Title: Tom Roelfs, Drig / 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.

Monthly Gauge Sheet

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Well Name: Raile 1-27

Pumper: 2x 375

Month 5/11

Day	Static	Diff	MCF	Wtr	TP	CP	SPM Cycle	Remarks
1	33	7	13	24		20	3/24	
2	33	7	13	24		20	3/24	
3	33	7	13	23		20	3/24	
4	35	7	14	23		22	3/24	
5	35	7	14	24		22	3/24	
6	35	7	14	22		22	3/24	
7	35	7	14	22		22	3/24	
8	35	7	14	23		22	3/24	
9	35	7	14	24		22	3/24	
10	35	8	15	24		22	3/24	
11	35	8	15	23		22	3/24	
12	33	8	14	22		20	3/24	
13	33	8	14	23		20	3/24	
14	33	8	14	23		20	3/24	
15			0	0			off	shut in 8am
16	88	18	35	0		75	off	opened 8am <del>75</del> 75 LB
17	33	8	14	23		20	3/24	
18	33	8	14	22		20	3/24	
19	33	9	15	22		20	3/24	
20	33	9	15	24		20	3/24	
21	33	9	15	23		20	3/24	
22	33	9	15	24		20	3/24	
23	33	9	15	23		20	3/24	
24	33	9	15	22		20	3/24	
25	33	9	15	22		20	3/24	
26	33	10	16	24		20	3/24	
27	33	10	16	24		20	3/24	
28	33	10	16	23		20	3/24	
29	33	10	16	23		20	3/24	
30	33	10	16	23		20	3/24	
31	33	10	16	22		20	3/24	

Totals 444 668

Monthly Gauge Sheet

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Well Name:       Raile 1-27      

Pumper:       2X.375      

Month:       6-11      

Day	Static	Diff	MCF	Wtr	TP	CP	SPM Cycle	Remarks
1	33	10	16	22		20		
2	33	10	16	22		20		
3	33	12	18	24		20		7 min WTR
4	33	12	18	24		20		
5	33	12	18	24		20		
6	33	10	16	23		20		
7	33	10	16	23		20		
8	33	10	16	24		20		
9	33	10	16	24		20		
10	33	10	16	24		20		
11	33	10	16	23		20		
12	33	10	16	23		20		
13	33	10	16	24		20		7 min WTR
14	33	10	16	24		20		
15	33	10	16	24		20		
16	35	10	17	22		22		
17	35	10	17	22		22		
18	38	10	17	22		25		
19	38	10	17	24		25		
20	35	10	17	24		22		
21	36	10	17	24		23		
22	38	10	17	24		25		
23	38	10	17	22		25		
24	38	10	17	22		25		
25	38	10	17	22		25		
26	38	10	17	22		25		
27	38	10	17	22		25		
28	38	10	17	22		25		
29	33	10	16	21		20		8 min WTR
30	33	10	16	21		20		
31								
Totals			499	688				

Monthly Gauge Sheet

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Well Name: Raile 1-27

Pumper: 2x .375

Month: 7-11

Day	Static	Diff	MCF	Wtr	TP	CP	SPM Cycle	Remarks
1	37	13	19	22		24	3/24	
2	37	13	19	23		24	3/24	
3	37	13	19	21		24	3/24	
4	37	13	19	21		24	3/24	
5	37	13	19	22		24	3/24	
6	37	12	19	22		24	3/24	
7	37	14	20	22		24	3/24	
8	37	14	20	23		24	3/24	
9	37	14	20	22		24	3/24	
10	37	14	20	21		24	3/24	
11	37	14	20	21		24	3/24	
12	37	14	20	21		24	3/24	
13	37	14	20	22		24	3/24	
14	35	15	21	23		23	3/24	
15	43	0	0	0		80	off	CO 18hr
16	63	28	37	1		50	}	
17	36	15	21			23		
18	36	15	21			23		
19	33	13	18			20		
20	33	13	18			20		
21	34	8	15			26		
22	34	8	15			26		
23	34	8	15			26		
24	36	8	15			26		
25	34	8	15			26		
26	34	8	15			26		
27	36	8	15			26		
28	34	8	15			26		
29	36	8	15			26		
30	34	8	15			26		
31	36	8	15	0		26	off	

Totals 555 306 BBL