

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow
 Deliverability

Test Date:
10/7/2014

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 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	
Vertical Depth(H) 1668'		Pressure Taps Flange		Gas Gravity - G _g .59	
Pressure Buildup: Shut in 10/7		20 14 at 4:11 PM		(AM) (PM) Taken 10/7	
Well on Line: Started 10/9		20 14 at 5:15 PM		(AM) (PM) Taken 10/9	

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 ₂ O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						78	92				
Flow						10	14				

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _b) (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 _t	Deviation Factor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_o)² = _____ : (P_w)² = _____ : P_d = _____ % (P_o - 14.4) + 14.4 = _____ : (P_a)² = 0.207
(P_d)² = _____

(P _o) ² - (P _d) ² or (P _o) ² - (P _w) ²	(P _o) ² - (P _w) ²	Choose formula 1 or 2: 1. P _o ² - P _d ² 2. P _o ² - P _w ² divided by: P _o ² - P _w ²	LOG of formula 1, or 2, and divide by: $\frac{P_o^2 - P_w^2}{P_o^2 - P_d^2}$	Backpressure Curve Slope = "n" ----- Assigned Standard Slope	n x LOG $\left[\frac{P_o^2 - P_w^2}{P_o^2 - P_d^2} \right]$	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 01 day of December, 20 14.

Received
KANSAS CORPORATION COMMISSION

Tom W. Koelb
For Company

Witness (if any)

DEC 15 2014

For Commission

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

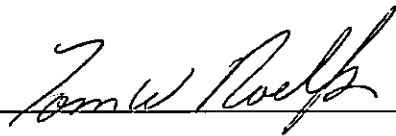
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CONSERVATION DIVISION
WICHITA, KS

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: December 1, 2014

Signature: 

Title: Tom Roelfs, Drig/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

Pumper: _____

Month: Sep-14

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

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DEC 15 2014
 CONSERVATION DIVISION
 WICHITA, KS

Monthly Gauge Sheet

Well Name: Ilene Raile 1-27

Pumper: _____

Month: Oct-14

Day	Static	Diff	MCF	Wtr	TP	CP	SPM Cyle	Remarks
1	23	8	12			10		
2	23	8	12			10		
3	23	8	12			10		
4	23	9	13			10		
5	23	9	13			10		
6	23	9	13			10		
7	23	10	13			10		Shut In 4:15pm
8	23	0	0			70		
9	23	0	0			78		Open 5:15pm
10	23	22	20			10		
11	23	20	19			10		
12	23	19	19			10		
13	23	18	18			10		
14	23	17	18			10		
15	25	12	15			12		
16	25	8	15			12		
17	25	8	13			12		
18	25	8	13			12		Received KANSAS CORPORATION COMMISSION
19	25	8	13			12		DEC 15 2014
20	25	8	13			12		CONSERVATION DIVISION WICHITA, KS
21	25	7	13			12		
22	25	7	13			12		
23	23	6	10			10		
24	23	5	10			10		
25	23	5	10			10		
26	23	4	8			10		
27	23	4	8			10		
28	23	4	8			10		
29	23	4	8			10		
30	23	4	8			10		
31	23	4	8			10		

