

**KANSAS CORPORATION COMMISSION  
ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST**

FORM G-2  
(Rev.8/98)

**TYPE TEST:**

- Open Flow  
 Deliverability

**TEST DATE:** 2/19/02      **API No.** 15-023-20404-0000

<b>Company</b> Priority Oil & Gas LLC		<b>Lease</b> Raile		<b>Well Number</b> 2-24	
<b>County</b> Cheyenne	<b>Location</b> NE/SE/SW	<b>Section</b> 24	<b>TWP</b> 3s	<b>RNG(E/W)</b> 42W	<b>Acres Attributed</b>
<b>Field</b> Cherry Creek		<b>Reservoir</b> Niobrara		<b>Gas Gathering Connection</b> Williams	
<b>Completion Date</b>		<b>Plug Back Total Depth</b> 1571		<b>Packer Set at</b>	
<b>Casing Size</b> 4.500	<b>Weight</b> 10.500	<b>Internal Diameter</b> 4.052	<b>Set at</b> 1613	<b>Perforations</b> 1412	<b>To</b> 1442
<b>Tubing Size</b> NONE	<b>Weight</b>	<b>Internal Diameter</b>	<b>Set at</b>	<b>Perforations</b>	<b>To</b>
<b>Type Completion (Describe)</b> 6/13/01		<b>Type Fluid Production</b>		<b>Pump Unit or Traveling Plunger?</b> No	
<b>Producing Thru (Annulus/Tubing)</b> casing		<b>% Carbon Dioxide</b> .454	<b>% Nitrogen</b> 10.995	<b>Gas Gravity- Gg</b> .613	
<b>Vertical Depth (H)</b> 1427		<b>Pressure Taps</b> Flange		<b>Meter Run Size</b> 2	
<b>Pressure Buildup: Shut in</b> 2/15/02 @ 1245		<b>TAKEN</b> 2/18/02 @ 1315			
<b>Well on Line: Started</b> 2/18/02 @ 1315		<b>TAKEN</b> 2/19/02 @ 1700			

**RECEIVED**  
 MAR 21 2002  
 KCC WICHITA

**OBSERVED SURFACE DATA**

Static/ Dynamic Property	Orifice Size in.	Meter Pressure psig	Pressure Diff. In. H <sub>2</sub> O	Flowing Temp. t.	WellHead Temp. t.	Casing WellHead Press. (P <sub>w</sub> ) (P <sub>t</sub> ) (P <sub>c</sub> )		Tubing WellHead Press. (P <sub>w</sub> ) (P <sub>t</sub> ) (P <sub>c</sub> )		Duration (Hours)	Liquid Prod. Barrels
						psig	psia	psig	psia		
Shut-in						287	299			72.0	
Flow	.750	152.5	24.00	54		252	264			27.0	

**FLOW STREAM ATTRIBUTES**

COEFFICIENT (F <sub>p</sub> ) Mcf/d	(METER) PRESSURE psia	EXTENSION $\sqrt{P_m \times H_w}$	GRAVITY FACTOR Fg	FLOWING TEMP FACTOR Ft	DEVIATION FACTOR Fpv	RATE OF FLOW R Mcf/d	GOR	G <sub>m</sub>
2.779	165.0	62.93	1.2772	1.0058	1.0117	227		.613

**(OPEN FLOW)(DELIVERABILITY) CALCULATIONS**

$(P_c)^2 = 89.7$        $(P_w)^2 = 70.0$        $P_d = 50.9$       %       $(P_c - 14.4) + 14.4 =$        $(P_a)^2 = 0.207$   
 $(P_d)^2 = 23.26$

$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$	$(P_c)^2 - (P_w)^2$	$\frac{(P_c)^2 - (P_a)^2}{(P_c)^2 - (P_d)^2}$ or $\frac{(P_c)^2 - (P_d)^2}{(P_c)^2 - (P_w)^2}$	LOG	Backpressure Curve Slope "n" ----- or ----- Assigned Standard Slope	n x LOG	Antilog	Open Flow Deliverability = R x Antilog Mcf/d
89.54	19.73	4.539	.6569	.506	.3324	2.150	488
66.44	19.73	3.368	.5273	.506	.2668	1.849	420

**OPEN FLOW**      488      Mcfd @ 14.65 psia      **DELIVERABILITY**      420      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 herein and that said report is true and correct. Executed this the 5 day of March, 2002

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

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

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

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


I declare under penalty or 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 Priority Oil & Gas LLC and that the foregoing information and statements contained on this application form are true and correct to the best of my knowledge and belief based upon gas production records and records of equipment installation and/or of type completion or upon use of the gas well herein named.

I hereby request a permanent exemption from open flow testing for the Raile 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 incapable of producing at a daily rate in excess of 150 mcf/D

Date: 3-18-02

Signature:   
Title: Admin. Asst

**Instructions:**

All active gas wells must have at least an original G-2 form on file with the conservation division. If a gas well meets 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 obtain a testing exemption.

At some point during the succeeding calendar year, wellhead shut-in pressure shall be 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.

The G-2 form conveying the newest shut-in pressure reading shall be filed with the Wichita office no later than thirty (30) days after the taking of the pressure reading. The form must be signed and dated on the front side as though it was a verified report of test results.