

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

FORM G-2  
(Rev.8/98)

TYPE TEST:

- Open Flow  
 Deliverability

TEST DATE: 1-30-02

API No. 15-023-20373-0000

Company Priority Oil & Gas LLC		Lease Northrup Trust			Well Number 2-18	
County Cheyenne	Location SE/4 SW/4 SE/4		Section 18-4s-40w	TWP	RNG(E/W)	Acres Attributed
Field Cherry Creek	Reservoir Niobrara		Gas Gathering Connection Kinder-Morgan			
Completion Date 1/27/01	Plug Back Total Depth 1348		Packer Set at			
Casing Size 4.500	Weight 10.500	Internal Diameter 4.052	Set at 1394	Perforations 1222	To 1262	
Tubing Size NONE	Weight	Internal Diameter	Set at	Perforations	To	
Type Completion (Describe) Frac	Type Fluid Production		Pump Unit or Traveling Plunger? No			
Producing Thru(Annulus/Tubing) Casing	% Carbon Dioxide .347		% Nitrogen 3.478		Gas Gravity- Gg .586	
Vertical Depth (H) 1242	Pressure Taps Flange		Meter Run Size 2.			
Pressure Buildup: Shut in	1-25-02	15:30	TAKEN	1-29-02	9:30	
Well on Line: Started	1-29-02	9:30	TAKEN	1-30-02	8:45	

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**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						138	150			90.0	
Flow	.625	72.5	22.00	28		79	91			23.0	

**FLOW STREAM ATTRIBUTES**

COEFFICIENT (F <sub>b</sub> ) Mcf/d	(METER) PRESSURE psia	EXTENSION $\sqrt{P_m \times H_w}$	GRAVITY FACTOR F <sub>g</sub>	FLOWING TEMP FACTOR F <sub>t</sub>	DEVIATION FACTOR F <sub>pv</sub>	RATE OF FLOW R Mcf/d	GOR	G <sub>m</sub>
1.914	85.0	43.24	1.3063	1.0323	1.0075	112		.586

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

(P<sub>c</sub>)<sup>2</sup> = 22.7      (P<sub>w</sub>)<sup>2</sup> = 8.4      P<sub>d</sub> = 48.2      % (P<sub>c</sub> - 14.4) + 14.4 =      (P<sub>a</sub>)<sup>2</sup> = 0.207  
(P<sub>d</sub>)<sup>2</sup> = 5.26

$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$	$(P_c)^2 - (P_w)^2$	$\frac{[(P_c)^2 - (P_a)^2] \text{ or } [(P_c)^2 - (P_d)^2]}{[(P_c)^2 - (P_w)^2]}$	LOG [ ]	Backpressure Curve Slope "n" ----- or ----- Assigned Standard Slope	n x LOG [ ]	Antilog	Open Flow Deliverability = R x Antilog Mcf/d
22.49	14.28	1.576	.1975	.961	.1898	1.548	174
17.39	14.28	1.218	.0858	.961	.0825	1.209	135

OPEN FLOW      174      Mcfd @ 14.65 psia      DELIVERABILITY      135      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 6 day of Feb, 20 02

Witness (if any)

For Commission

For Company

Checked by

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

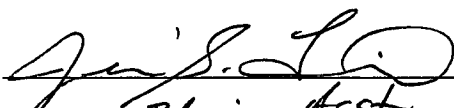
and that the foregoing information and statements contained on this application form are true and correct to the best of my knowledge and belief based upon gas production records and records of equipment installation and/or of type completion or upon use of the gas well herein named.

I hereby request a permanent exemption from open flow testing for the Northrup Trust 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: 2-18-02

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.

# NATURAL GAS ANALYSIS REPORT

Sampled by:  
 Trilobite Testing, Inc.  
 Hays, Kansas  
 Scott City, Kansas  
 Phone: 800-728-5369  
 Fax: 785-625-5620

Analyzed by:  
 Caraway Analytical, Inc  
 P. O. Box 2137  
 Liberal, Kansas 67905  
 Phone: 620-624-5389  
 Fax: 620-626-7108

<b>Lab Number:</b> 20020417	<b>Analyzed:</b> 02/01/02
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Sample From: Northrup Trust 2-18	Pressure:	
Producer: Priority O&G	Temperature:	

<b>Location:</b> 18-4-40	
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Time:	County:	Cheyenne
Sampler:	State:	Kansas
Source:	Formation:	Niobrara

	Mole %	GPM
Helium	He: 0.077	0.000
Hydrogen	H2: 0.001	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 3.478	0.000
Carbon Dioxide	CO2: 0.347	0.000
Methane	C1: 94.279	0.000
Ethane	C2: 1.239	0.331
Propane	C3: 0.382	0.105
Iso Butane	iC4: 0.062	0.020
Normal Butane	nC4: 0.069	0.022
Iso Pentane	iC5: 0.020	0.007
Normal Pentane	nC5: 0.013	0.005
Hexanes Plus	C6+: 0.033	0.014

TOTAL: 100.000    0.505

Z Fact: 0.9981

SP.GR.: 0.5858

BTU (SAT): 977.9 @ 14.73 psia  
 BTU (DRY): 995.2 @ 14.73 psia  
 OCTANE RATING: 124.4

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COMMENTS:

0.000