

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

FORM G-2  
(Rev. 8/98)

TYPE TEST:

- Open Flow  
 Deliverability

TEST DATE: 2/9/02 API No. 15-023-20375-0000

Company Priority Oil & Gas LLC		Lease Northrup Trust			Well Number 4-18	
County Cheyenne		Location NE NW SE		Section TWP RING (E/W) 18-4s-40w		Acres Attributed
Field Dent Field		Reservoir Niobrara		Gas Gathering Connection Kinder-Morgan		
Completion Date 6/14/01		Plug Back Total Depth 1290		Packer Set at		
Casing Size 4.500	Weight 10.500	Internal Diameter 4.052	Set at 1332	Perforations 1176	To 1211	
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 .478		% Nitrogen 3.590		Gas Gravity- Gg .585
Vertical Depth (H) 1193		Pressure Taps Flange		Meter Run Size 2		
Pressure Buildup: Shut in		2/5/02@7:00		TAKEN	2/8/02@12:00	
Well on Line: Started		2/8/02@12:00		TAKEN	2/9/02@12:15	

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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						160	172			72.0	
Flow	.625	94.5	22.00	27		145	157			24.0	

**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	107.0	48.52	1.3074	1.0333	1.0095	126		.585

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

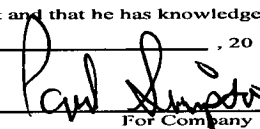
(P<sub>c</sub>)<sup>2</sup> = 29.8      (P<sub>w</sub>)<sup>2</sup> = 24.8      P<sub>d</sub> = 54.8      % (P<sub>c</sub> - 14.4) + 14.4 =      (P<sub>a</sub>)<sup>2</sup> = 0.207  
(P<sub>d</sub>)<sup>2</sup> = 8.93

$(P_c)^2 - (P_a)^2$ 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 $\frac{(P_c)^2 - (P_a)^2}{(P_c)^2 - (P_w)^2}$	LOG	Backpressure Curve Slope "n" ---- or ---- Assigned Standard Slope	n x LOG	Antilog	Open Flow Deliverability = R x Antilog Mcf/d
29.60	4.95	5.983	.7769	.683	.5307	3.394	429
20.83	4.95	4.210	.6243	.683	.4264	2.669	338

OPEN FLOW      429      Mcfd @ 14.65 psia      DELIVERABILITY      338      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 12 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

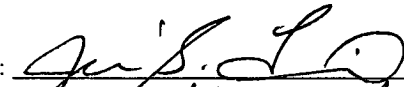
and that the foregoing information and statements contained on this application form are true and correct to the best of my knowledge and belief based upon gas production records and records of equipment installation and/or of type completion or upon use of the gas well herein named.

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: 2-19-07

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.

PRECISION MEASUREMENT, INC.  
P.O.Box 3659  
745 North Circle Drive  
Casper, WY. 82602

2/11/2002 6:41 PM  
Phone: 307-237-9327  
800-624-7260  
Fax: 307-577-4139  
E Mail: pmi@trib.com

### GAS ANALYSIS REPORT

Analysis For: PRIORITY OIL & GAS  
Field Name:  
Well Name: 4-18 NORTHRUP TRUST  
Station Number:  
Purpose:  
Sample Deg. F: 54  
Volume/Day:  
Formation:  
Line PSIG: 147  
Line PSIA:

Run No: 5481-1  
Date Run: 2/11/02  
Date Sampled: 2/5/02  
Producer:  
County:  
State:  
Sampled By: K. ANDREWS  
Atmos Deg. F:  
**LOCATION: SEC. 18-4S-40W**

#### GAS COMPONENTS

	MOL%	GPM
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Carbon Dioxide C02:	0.478	
Nitrogen N2:	3.590	
Hydrogen Sulfide H2s:	0.0000	
Methane C1:	94.198	
Ethane C2:	1.251	0.334
Propane C3:	0.365	0.100
Iso-Butane IC4:	0.057	0.019
Nor-Butane NC4:	0.061	0.019
Iso-Pentane IC5:	0.000	0.000
Nor-Pentane NC5:	0.000	0.000
Hexane Plus C6+:	0.000	0.000
Totals	100.000	0.472

Pressure Base: 14.730  
Real BTU Dry: 990.804  
Real BTU Wet: 973.564  
Calc. Ideal Gravity: 0.585  
Calc. Real Gravity: 0.586  
Field Gravity:  
Standard Pressure: 14.696  
BTU Dry: 988.531  
BTU Wet: 971.330  
Z Factor: 0.998  
Avg Mol Weight: 16.934  
Avg CuFt/Gal: 59.905  
Ethane+ GPM: 0.472  
Propane+ GPM: 0.138  
Butane+ GPM: 0.038  
Pentane+ GPM: 0.000

Remarks:

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FEB 25 2002  
KCC WICHITA

Analysis By: S.G. WALLACE  
Approved By: