

KANSAS CORPORATION COMMISSION  
ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

FORM G-2  
(Rev. 8/98)

TYPE TEST:

- Open Flow  
 Deliverability

TEST DATE: 02/13/02 API No. 15-023-20395-0000

Company Priority Oil & Gas LLC		Lease Degood			Well Number 1-31	
County Cheyenne	Location SE NW	Section 31- <del>As</del> -40w	TWP 33	RNG (E/W)	Acres Attributed	
Field Dent Field	Reservoir Niobrara	Gas Gathering Connection Kinder-Morgan				
Completion Date 7/19/01	Plug Back Total Depth 1257		Packer Set at			
Casing Size 4.500	Weight 10.500	Internal Diameter 4.052	Set at 1300	Perforations 1101	To 1136	
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 .530	% Nitrogen 3.730	Gas Gravity- Gg .586			
Vertical Depth (ft) 1119	Pressure Taps Flange	Meter Run Size 2				
Pressure Buildup: Shut in	2-8-02@9:30	TAKEN	2-12-02@13:15			
Well on Line: Started	2-12-02@13:15	TAKEN	2-13-02@8:45			

RECEIVED  
FEB 25 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						193	205			100.0	
Flow	.500	117.5	69.00	48		140	152			19.0	

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	130.0	94.71	1.3063	1.0117	1.0101	242		.586

(OPEN FLOW)(DELIVERABILITY) CALCULATIONS

(P<sub>c</sub>)<sup>2</sup> = 42.2      (P<sub>w</sub>)<sup>2</sup> = 23.3      P<sub>d</sub> = 57.2      % (P<sub>c</sub> - 14.4) + 14.4 =      (P<sub>a</sub>)<sup>2</sup> = 0.207  
(P<sub>d</sub>)<sup>2</sup> = 13.81

$(P_c)^2 - (P_a)^2$ 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
42.07	18.97	2.218	.3461	.809	.2800	1.905	461
28.42	18.97	1.499	.1757	.809	.1422	1.387	335

OPEN FLOW      461      Mcfd @ 14.65 psia      DELIVERABILITY      335      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 15 day of Feb, 20 02

*Paul Simpson*  
For Company

Witness (if any)

For Commission

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 Degood 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: 7-21-02

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.