KANSAS CORPORATION COMMISSION
ONE POINT STABLIZED 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	Lease	Well Number
Priority Oil & Gas LLC	Northrup Trust	4-18

County	Location	Section	TWP	RNG(E/W)	Acres Attributed
Cheyenne	NE NW SE	18	4s	40w	

Field	Reservoir	Gas Gathering Connection
Dent Field	Niobrara	Kinder-Morgan

Completion Date	Plug Back Total Depth	Packer Set at
6/14/01	1290	

Casing Size	Weight	Internal Diameter	Set at	Perforations	To
4.500	10.500	4.052	1332	1176	1211

Tubing Size	Weight	Internal Diameter	Set at	Perforations	To
NONE					

Type Completion (Describe)	Type Fluid Production	Pump Unit or Traveling Plunger?
Frac		No

Producing Thru (Annulus/Tubing)	% Carbon Dioxide	% Nitrogen	Gas Gravity- Gg
Casing	.478	3.590	.585

Vertical Depth (H)	Pressure Taps	Meter Run Size
1193	Flange	2

RECEIVED
FEB 25 2002
KCC WICHITA

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

OBSERVED SURFACE DATA

Static/ Dynamic Property	Orifice Size in.	Meter Pressure psig	Pressure Diff. In. H $_2$O	Flowing Temp. t.	WellHead Temp. t.	Casing WellHead Press. (P_w) (P_t) (P_c) psig	Casing WellHead Press. psia	Tubing WellHead Press. (P_w) (P_t) (P_c) psig	Tubing WellHead Press. psia	Duration (Hours)	Liquid Prod. Barrels
Shut-in						160	172			72.0	
Flow	.625	94.5	22.00	27		145	157			24.0	

FLOW STREAM ATTRIBUTES

COEFFICIENT (F_b) Mcfd	(METER) PRESSURE psia	EXTENSION $\sqrt{P_m \times H_w}$	GRAVITY FACTOR Fg	FLOWING TEMP FACTOR Ft	DEVIATION FACTOR Fpv	RATE OF FLOW R Mcfd	GOR	G_m
1.914	107.0	48.52	1.3074	1.0333	1.0095	126		.585

(OPEN FLOW)(DELIVERABILITY) CALCULATIONS

$(Pc)^2$ = 29.8 $(Pw)^2$ = 24.8 Pd = 54.8 % $(Pc - 14.4) + 14.4$ = $(Pa)^2$ = 0.207 $(Pd)^2$ = 8.93

$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$	$(P_c)^2 - (P_w)^2$	$\frac{(P_c)^2 - (P_a)^2 \text{ or } (P_c)^2 - (P_d)^2}{(P_c)^2 - (P_w)^2}$	LOG [ ]	Backpressure Curve Slope "n" ---- or ---- Assigned Standard Slope	n x LOG [ ]	Antilog	Open Flow Deliverability = R x Antilog Mcfd
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 behaf 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 Company

For Commission

Checked by

Form G-2
Rev.8/98

I declare under penelty 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 vacum at the present time; KCC approval Docket No. _____
- ☒ is incapable of producing at a daily rate in exess 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
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:

Analysis By: S.G. WALLACE
Approved By: