

KANSAS CORPORATION COMMISSION
MULTIPOINT BACK PRESSURE TEST

FORM G-1
8-7-58

TYPE TEST: ☐ Initial ☐ Annual ☐ Special		TEST DATE: 3-11-03	
COMPANY Priority Oil & Gas LLC		LEASE Briggs-Vincent	
		WELL NO. 5-23	
COUNTY Cheyenne	LOCATION NE/NW/NW	SECTION 23-3s-42w	TWP RNG ACRES
FIELD Niobrara		PIPELINE CONNECTION Williams	
COMPLETION DATE 1/14/03	PLUG BACK DEPTH TOTAL DEPTH	1616 1680	PACKER SET AT
CASING SIZE 4.500	WT. 10.500	ID 4.052	SET AT 1665
			PERF. 1457
			TO 1501
TUBING SIZE NONE	WT. ID	SET AT PERF.	TO
TYPE COMPLETION (Describe) Frac		TYPE FLUID PRODUCTION	
PRODUCING THRU(Annulus/Tubing) casing		RESERVOIR TEMPERATURE F BAR PRESS - Pa 14.4 psia	
GAS GRAVITY - Gg .584	% CARBON DIOXIDE .260	% NITROGEN 3.850	API GRAVITY OF LIQUID
VERTICAL DEPTH (H) 1479	TYPE METER CONN. Flange		METER RUN SIZE 2"
REMARKS			

OBSERVED SURFACE DATA

RATE NO.	ORIFICE SIZE in.	(METER) PRESSURE psig	DIFF. (h _w) (h _t)	FLOWING TEMP. t.	WELLHEAD TEMP. t.	CASING WELLHEAD PRESS.		TUBING WELLHEAD PRESS.		DURATION HOURS	LIQUID PROD. Bbls.
						psig	(P _w) (P _t) (P _c) psia	psig	(P _w) (P _t) (P _c) psia		
SHUT-IN						184	198			72.00	
1.	.625	87.20	49.60	90		179	193			.50	
2.	.625	88.10	81.80	66		166	180			.50	
3.	.625	92.40	230.80	53		156	170			.50	
4.	.625	96.30	311.60	48		147	161			.50	

FLOW STREAM ATTRIBUTES

RATE NO.	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 Q Mcfd	GOR	G _m
1.	1.941	101.6	70.99	1.3086	.9723	1.0060	176		.584
2.	1.914	102.5	91.57	1.3086	.9943	1.0070	229		.584
3.	1.914	106.8	157.00	1.3086	1.0068	1.0080	399		.584
4.	1.914	110.7	185.73	1.3086	1.0117	1.0085	474		.584

PRESSURE CALCULATION

RATE NO.	P _t psia	P _c psia	P _w psia	(P _c) ² Thousands	(P _w) ² Thousands	PLOTING POINTS		% SHUT-IN 100 $\left[\frac{P_w - P_a}{P_c - P_a} \right]$
						(P _c) ² - (P _w) ² Thousands	Q Mcfd	
1.	193.4	198.4	193.4	39.4	37.4	2.0	176.4	97.3
2.	180.4	198.4	180.4	39.4	32.6	6.8	229.6	90.2
3.	170.4	198.4	170.5	39.4	29.1	10.3	399.0	84.8
4.	161.4	198.4	161.5	39.4	26.1	13.3	474.6	80.0

INDICATED WELLHEAD OPEN FLOW

1709

Mcfd @ 14.65 psia

"n" = 1.000

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 4 day of April, 2003

Witness (if any)

For Company

For Commission

Checked by

GAS WELL BACK PRESSURE CURVE

WELL TESTER: Trilobite Testing
TEST DATE: 3-11-03

Priority Oil & Gas LLC
Briggs-Vincent 5-23
23-3s-42w
Cheyenne
Exponent n: 1.1385
AOFF: 1709.

