STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED
AUG 26 1982
O. C. D.
ARTESIA, OFFICE

Type Test: [XX] Initial [ ] Annual [ ] Special				Test Date: 6/22/82	
Company: Yates Petroleum Corp.		Connection: Transwestern Pipeline			
Pool: Pecos Slope - Abo-Gas		Formation: Abo		Unit	
Completion Date: 3/20/82	Total Depth: 3950'	Plug Back TD: 3933'	Elevation: 4000 GL	Farm or Lease Name: Springer TK	
Csg. Size: 4½" / Wt.: 9.5# / d: 4.090 / Set At: 3943		Perforations: From 3609 To 3835		Well No.: #1	
Tbg. Size: 2 7/8" / Wt.: 6.5# / d: 2.441 / Set At: 3562		Perforations: From To		Unit: H / Sec.: 26 / Twp.: 4S / Rge.: 24E	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: 3562		County: Chaves	
Producing Thru: Tubing	Reservoir Temp. °F: 96 @ 3722	Mean Annual Temp. °F: 62°	Baro. Press. – P_a: 13.2 PSI	State: New Mexico	

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
3562	3562	.686	3.87%	7.66%	-	-	2"	Flanged

	FLOW DATA				TUBING DATA		CASING DATA		
NO.	Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI					1020				
1.	2.067 x .375	300	6.4	66	873	62			24 hr
2.	2.067 x .375	300	11.4	69	785	62			24 hr
3.	2.067 x .375	300	18.2	69	723	62			24 hr
4.	2.067 x .375	260	46	66	420	62			24 hr
5.									

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	0.6689	44.9	313.2	.9948	1.207	1.026	37
2	0.6689	59.7	313.2	.9915	1.207	1.025	49
3	0.6689	75.5	313.2	.9915	1.207	1.025	62
4	0.6689	112.1	273.2	.9948	1.207	1.023	92
5							

NO.	P_r	Temp. °R	T_r	Z
1	.47	526	1.48	.950
2	.47	529	1.49	.951
3	.47	529	1.49	.951
4	.41	526	1.48	.956
5				

Gas Liquid Hydrocarbon Ratio: Dry Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: -- Deg.

Specific Gravity Separator Gas	.686	XXXXXXXXX
Specific Gravity Flowing Fluid	XXXXX	.686
Critical Pressure	672 P.S.I.A.	672 P.S.I.A.
Critical Temperature	356 R	356 R

P_c 1033.2 P_c^2 1067.5

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	785.4		785.4	282.1
2	637.1		637.1	430.4
3	542.0		542.0	525.5
4	187.7		187.7	879.8
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2133$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.1730$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 108 MCFGPD

Absolute Open Flow: 108 Mcfd @ 15.025 | Angle of Slope θ: | Slope, n: .825

Remarks:

Approved By Division	Conducted By:	Calculated By:	Checked By:
	David Weaver	Al Springer	