NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

c/s f File

Form C-122
Revised 9-1-65

RECEIVED

Type Test			Test Date	
[xx] Initial	[ ] Annual	[ ] Special	10/2/82	NOV 1 1982

Company	Connection	
Yates Petroleum Corporation	Transwestern Pipeline	O. C. D. ARTESIA, OFFICE

Pool	Formation	Unit
Pecos Slope - Abo Gas	Abo	

Completion Date	Total Depth	Plug Back TD	Elevation	Farm or Lease Name
4/30/82	4154'	4085'	3776' GL	Sacra "SA"

Csg. Size	Wt.	d	Set At	Perforations: From	To	Well No.
4 1/2"	9.5#	4.090	4154'	3718	3994	2

Tbg. Size	Wt.	d	Set At	Perforations: From	To	Unit	Sec.	Twp.	Rge.
2 3/8"	4.7#	1.995	3672			P	23	6S	25E

Type Well – Single – Bradenhead – G.G. or G.O. Multiple	Packer Set At	County
Single	3672	Chaves

Producing Thru	Reservoir Temp. °F	Mean Annual Temp. °F	Baro. Press. – P_a	State
Tubing	102° @ 3668'	62	13.2 psi	New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
3672	3672	.643	0.06	4.87	00	--	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					1014				
1.	2.067 x 1.250	190	41.9	72	924	62			24 hr.
2.	2.067 x 1.250	210	46.4	72	907	62			24 hr.
3.	2.067 x 1.250	210	62.0	72	890	62			24 hr.
4.	2.067 x 1.250	290	58.0	72	870	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	8.120	92.2	203.2	.9887	1.247	1.017	939
2	8.120	101.9	223.2	.9887	1.247	1.019	1040
3	8.120	117.6	223.2	.9887	1.247	1.019	1200
4	8.120	132.6	303.2	.9887	1.247	1.025	1361
5							

NO.	P_r	Temp. °R	T_r	Z
1	.31	532	1.49	.967
2.	.34	532	1.49	.964
3.	.34	532	1.49	.964
4	.46	532	1.49	.952
5				

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

Specific Gravity Separator Gas	.643	XXXXXXXXXX
Specific Gravity Flowing Fluid	XXXXX	.643
Critical Pressure	665 P.S.I.A.	665 P.S.I.A.
Critical Temperature	357 R	357 R

P_c 1027.2 P_c^2 1055.1

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	878.3		889.4	165.7
2	846.8		860.4	194.7
3	815.8		834.0	221.1
4	780.0		803.6	251.5
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 4.195$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3.255$

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 4430$

Absolute Open Flow 4430 Mcfd @ 15.025 Angle of Slope θ ______ Slope, n .823

Remarks:

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	David Weaver	Andie Alderson	