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
FEB 17 1982
O. C. D.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 12-15-81	
Company: Yates Petroleum Corporation			Connection: Transwestern Pipeline Co.		Unit
Pool: Pecos Slope-Abo Gas			Formation: Abo		
Completion Date: 10-19-81		Total Depth: 4200'		Plug Back TD: 4137'	Elevation: 3924' GL
Csg. Size: 4-1/2"	Wt.: 9.5#	d: 4.090	Set At: 4150'	Perforations: From 3811' To 3905'	Farm or Lease Name: Everette CO Federal
Tbg. Size: 2-3/8"	Wt.: 4.7#	d: 1.995	Set At: 3857'	Perforations: From - To -	Well No.: 2
					Unit: P; Sec.: 26; Twp.: 5S; Rge.: 24E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single			Packer Set At: -		County: Chaves
Producing Thru: Tubing	Reservoir Temp. °F: 100° @ 3853'		Mean Annual Temp. °F: 62°	Baro. Press. - P_a: 13.2	State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
3857	3857	.655	1.17	6.53	0	-	2"	Flanged

NO.	FLOW DATA: Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI					998				days
1.	2.067 x .625	250	28	54	675	59			20 hrs
2.	2.067 x .625	260	18.7	54	763	59			14 hrs
3.	2.067 x .625	240	14.5	54	842	59			24 hrs
4.	2.067 x .625	240	6.7	54	908	59			24 hrs
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	1.866	85.8	263.2	1.006	1.236	1.024	204
2	1.866	71.5	273.2	1.006	1.236	1.025	170
3	1.866	60.7	253.2	1.006	1.236	1.023	144
4	1.866	41.3	253.2	1.006	1.236	1.023	98
5							

NO.	P_t	Temp. °R	T_r	Z
1	.40	514	1.45	.953
2	.41	514	1.45	.952
3	.38	514	1.45	.955
4	.38	514	1.45	.955
5				

Gas Liquid Hydrocarbon Ratio: dry Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: - Deg.
Specific Gravity Separator Gas: .655 XXXXXXX X
Specific Gravity Flowing Fluid: XXXXX .655
Critical Pressure: 662 P.S.I.A. 662 P.S.I.A.
Critical Temperature: 354 R 354 R

P_c ____ P_c^2 ____

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	473.6		474.2	548.3
2	602.5		602.9	419.6
3	731.4		631.6	290.9
4	848.6		848.7	173.8
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.8649$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.4827$

AOF = $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 302$

Absolute Open Flow: 302 Mcfd @ 15.025 | Angle of Slope θ: | Slope, n: .63

Remarks:

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