NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122

C/SF File

Type Test [x] Initial [ ] Annual [ ] Special			Test Date 3/18/88	
Company Yates Petroleum Corporation	Connection Transwestern Pipeline Company			
Pool ~~E Eagle Creek~~ (RICHARD MORROW GAS POOL)	Formation Morrow			Unit
Completion Date 3/15/85	Total Depth 8635.0'	Plug Back TD 8568.0'	Elevation 3569.0'	Farm or Lease Name Sylvester ABC Com
Csg Size 5.500" / Wt. 14.000# / d 5.012" / Set At 8634.0'		Perforations: From 8393.0' To 8436.0'		Well No. 1
Tbg Size 2.875" / Wt. 6.500# / d 2.441" / Set At 8319.0'		Perforations: From 0.0' To 0.0'		Unit Sec P 8 / Twp 18S / Rge 25E
Type Well Single		Packer Set At 8323.0'		County Eddy
Producing Thru Tubing	Resv. Temp. °F 162 @ 8414'	Mean Temp. °F 62.0	Baro. Press. - Pa 13.2 psia.	State New Mexico

L	H	Gg	%CO2	%N2	%H2S	Prover	Meter Run	Taps
8319.0'	8319.0'	.601	1.34	.31	0.00	0.000"	2.000"	Flange

	FLOW DATA				TUBING DATA		CASING DATA		
NO	Prover Size	X Orifice Size	Press. psig	Diff. hw	Temp. °F	Press. psig	Temp. °F	Press. psig	Temp. °F	Duration of Flow
SI	0.000	X 0.000	0	0.0	47	1823	0	0	0	0 hrs.
1.	2.067	X .750	230	15.3	47	1355	62	0	0	24 hrs.
2.	2.067	X .750	230	19.6	47	1247	62	0	0	24 hrs.
3.	2.067	X .750	230	28.2	47	837	62	0	0	24 hrs.
4.	2.067	X .750	230	46.0	47	460	62	0	0	24 hrs.
5.	0.000	X 0.000	0	0.0	0	0	0	0	0	0 hrs.

RATE OF FLOW CALCULATIONS

NO	Coefficient (24 HOUR)	$\sqrt{hwPm}$	Pressure Pm	Flow Temp Factor Ft.	Gravity Factor Fg	Super Compress. Fact. Fpv	Rate of Flow Q, Mcfd
1.	2.709	61.00	243.20	1.013	1.290	1.021	220
2.	2.709	69.04	243.20	1.013	1.290	1.021	249
3.	2.709	82.81	243.20	1.013	1.290	1.021	299
4.	2.709	105.77	243.20	1.013	1.290	1.021	382
5.	0.000	0.00	0.00	0.000	0.000	0.000	0

NO	Pr	Temp. °R	Tr	Z
1.	.36	507	1.44	.960
2.	.36	507	1.44	.960
3.	.36	507	1.44	.960
4.	.36	507	1.44	.960
5.	0.00	0	0.00	0.000

Gas Liquid Hydrocarbon Ratio Dry Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 0.000 Deg.
Specific Gravity Separator Gas .601 | xxxxxxxxxxxx
Specific Gravity Flowing Fluid xxxxx | .601
Critical Pressure 677.2 PSIA | 677.2 PSIA
Critical Temperature 353.2°R | 353.2°R

Pc 1836.2 Pc^2 3371.6

NO	Pt^2	Pw	Pw^2	Pc^2-Pw^2
1.	1872.0	1368.4	1872.4	1499.3
2.	1588.1	1260.4	1588.6	1783.0
3.	722.8	850.7	723.6	2648.0
4.	223.9	474.6	225.3	3146.3
5.	0.0	0.0	0.0	0.0

(1) $\frac{Pc^2}{Pc^2-Pw^2}$ = 1.0706 (2) $\left[\frac{Pc^2}{Pc^2-Pw^2}\right]^n$ = 1.0521

$AOF = Q\left[\frac{Pc^2}{Pc^2-Pw^2}\right]^n$ = 402 Mcfd

Absolute Open Flow 402 Mcfd @ 15.025 | Angle of Slope, θ 37 | Slope, n .745

Remarks:

Approved By:	Conducted By:	Calculated By:	Checked By:
	Tracy Richardson	Andrea Carpenter	