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

Form C-122

C/S F. file

Type Test [x] Initial [ ] Annual [ ] Special				Test Date 4/1/88	
Company Yates Petroleum Corporation		Connection Transwestern Pipeline Company			
Pool South Millman Morrow		Formation Morrow			Unit
Completion Date 8/12/84	Total Depth 10940.0'	Plug Back TD 10882.5'	Elevation 3529.0'		Farm or Lease Name North Millman Unit
Csg Size 5.500" / Wt. 14.000# / d 5.012" / Set At 10940.0'		Perforations: From 10711.0' To 10829.0'			Well No. 4
Tbg Size 2.875" / Wt. 6.500# / d 2.441" / Set At 10652.0'		Perforations: From 0.0' To 0.0'			Unit Sec 0 / Twp 6 / Rge 19S 28E
Type Well Single		Packer Set At 10652.0'			County Eddy
Producing Thru Tubing	Resv. Temp. °F 204 @ 10826'	Mean Temp. °F 62.0	Baro. Press. - Pa 13.2 psia.		State New Mexico

L	H	Gg	%CO2	%N2	%H2S	Prover	Meter Run	Taps
10652.0'	10652.0'	.631	1.35	.55	0.00	0.000"	2.000"	Flange

NO	FLOW DATA Prover Size	X	Orifice Size	Press. psig	Diff. hw	Temp. °F	TUBING DATA Press. psig	TUBING DATA Temp. °F	CASING DATA Press. psig	CASING DATA Temp. °F	Duration of Flow
SI	0.000	X	0.000	0	0.0	42	2303	0	0	0	0 hrs.
1.	2.067	X	.750	530	10.8	42	1216	62	0	0	24 hrs.
2.	2.067	X	.750	470	14.0	42	1075	62	0	0	24 hrs.
3.	2.067	X	.750	460	18.2	42	923	62	0	0	24 hrs.
4.	2.067	X	.750	420	21.0	42	585	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	76.59	543.20	1.018	1.259	1.056	281
2.	2.709	82.25	483.20	1.018	1.259	1.049	300
3.	2.709	92.80	473.20	1.018	1.259	1.048	338
4.	2.709	95.38	433.20	1.018	1.259	1.044	346
5.	0.000	0.00	0.00	0.000	0.000	0.000	0

NO	Pr	Temp. °R	Tr	Z
1.	.80	502	1.39	.897
2.	.71	502	1.39	.908
3.	.70	502	1.39	.910
4.	.64	502	1.39	.918
5.	0.00	0	0.00	0.000

Gas Liquid Hydrocarbon Ratio 199.140 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 51.500 Deg.
Specific Gravity Separator Gas .631 | xxxxxxxxxxxx
Specific Gravity Flowing Fluid xxxxx | .646
Critical Pressure 675.8 PSIA | 675.3 PSIA
Critical Temperature 362.4°R | 367.5°R

Pc 2316.2 Pc^2 5364.8

NO	Pt^2	Pw	Pw^2	Pc^2-Pw^2
1.	1510.9	1229.6	1511.8	3852.9
2.	1184.2	1088.7	1185.2	4179.6
3.	876.5	936.9	877.8	4487.0
4.	357.8	599.4	359.3	5005.5
5.	0.0	0.0	0.0	0.0

(1) $\frac{Pc^2}{Pc^2-Pw^2}$ = 1.0719 (2) $\left[\frac{Pc^2}{Pc^2-Pw^2}\right]^n$ = 1.0566

$AOF = Q\left[\frac{Pc^2}{Pc^2-Pw^2}\right]^n$ = 365 Mcfd

Absolute Open Flow 365 Mcfd @ 15.025	Angle of Slope, θ 38	Slope, n .793

Remarks:

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