

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

c17 F.1e
Form C-122

Type Test [x] Initial [] Annual [] Special						Test Date 5/18/83		JUL 22 1983	
Company Yates Petroleum Corporation				Connection Transwestern Pipeline Company				O. C. D.	
Pool Pecos Slope: <i>Ab</i>				Formation Abo Pool				ARTESIA, OFFICE	
Completion Date 6/2/82		Total Depth 4200.0'		Plug Back TD 4139.0'		Elevation 3991.7'		Farm or Lease Name Skinny "00" State	
Csg Size 4.500"	Wt. 9.500#	d 4.090"	Set At 4188.0'	Perforations: From 3739.0' To 3908.0'			Well No. 4		
Tbg Size 2.375"	Wt. 4.700#	d 1.995"	Set At 3672.0'	Perforations: From 0.0' To 0.0'			Unit Sec Twp Rge G 16 6S 25E		
Type Well Single				Packer Set At 3672.0'			County Chaves		
Producing Thru Tubing		Resv. Temp. °F 100 @ 3670'		Mean Temp. °F 62.0		Baro. Press. - Pa 13.2 psia.		State New Mexico	
-	4	Gg	%CO2	%N2	%H2S	Proven	Meter Run	Taps	
3672.0'	3672.0'	.641	.01	5.05	0.00	0.000"	2.000"	Flange	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
NO	Proven Size	Drifite Size	Press. psig	Diff. hw	Temp. °F	Press. psig	Temp. °F	Press. psig	Temp. °F	
SI	0.000	x 0.000	0	0.0	0	996	0	0	0	0 hrs.
1.	2.067	x 1.000	140	14.0	70	900	62	0	0	24 hrs.
2.	2.067	x 1.000	135	25.0	70	835	62	0	0	24 hrs.
3.	2.067	x 1.000	135	40.0	70	760	62	0	0	24 hrs.
4.	2.067	x 1.000	130	45.0	70	650	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)	Pressure Pm	Flow Temp Factor Ft.	Gravity Factor Fg	Super Compress. Fact. Fpv	Rate of Flow Q, Mcfd
1.	4.947	46.31	153.20	.991	1.249	286
2.	4.947	60.87	148.20	.991	1.249	377
3.	4.947	76.99	148.20	.991	1.249	477
4.	4.947	80.27	143.20	.991	1.249	497
5.	0.000	0.00	0.00	0.000	0.000	0

NO	Pr	Temp. °R	Tr	Z	Gas Liquid Hydrocarbon Ratio	Dry	Mcfd/bbl.
1.	.23	530	1.49	.979	A.P.I. Gravity of Liquid Hydrocarbons	0.000	Deg.
2.	.22	530	1.49	.978	Specific Gravity Separator Gas	.641	xxxxxxxxxxxx
3.	.22	530	1.49	.978	Specific Gravity Flowing Fluid	xxxxxx	.641
4.	.22	530	1.49	.978	Critical Pressure	662.2 PSIA	662.2 PSIA
5.	0.00	0	0.00	0.000	Critical Temperature	355.4°R	355.4°R

NO	Pt2	Pw	Pw2	Pc2-Pw2	(1) $\frac{Pc^2}{Pc^2-Pw^2}$	(2) $\left[\frac{Pc^2}{Pc^2-Pw^2} \right]^n$
1.	833.9	913.7	834.9	183.6	2.4003	1.7142
2.	719.4	849.2	721.2	297.3		
3.	597.8	775.0	600.6	417.9		
4.	439.8	665.5	442.9	575.6		
5.	0.0	0.0	0.0	0.0		

ROF = $Q \left[\frac{Pc^2}{Pc^2-Pw^2} \right]^n = 817$ Mcfd

Absolute Open Flow	817 Mcfd @ 15.025	Angle of Slope, θ	32	Slope, n	.616
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Approved By:	Conducted By: David Weaver	Calculated By: Andie Carpenter	Checked By:
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