

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

File # C-122
yates
Form C-122
Revised 9-1-63

RECEIVED

SEP 16 1980

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 7-15-80	
Company Yates Petroleum Corp.		Connection Transwestern Pipeline Co.	
Pool Wildcat Abo		Formation Abo	
Completion Date 2-24-80		Total Depth 4260'	Plug Back TD 3986' KB
			Elevation 3907' KB
Csq. Size 5-1/2"	Wt. 14#	d 5.012	Set At 4026'
Plg. Size 2-7/8"	Wt. 6.5#	d 2.441	Set At 3707'
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 3707' KB	
Producing Thru Tubing		Reservoir Temp. °F 95 @ 3765	Mean Annual Temp. °F 62
		Boro. Press. - P _b 13.2	
L 3760	H 3760	G _g .673	% CO ₂ 2.99
		% N ₂ 5.82	% H ₂ S Nil
		Prover	Meter Run 2"
		Taps Flange	
FLOW DATA		TUBING DATA	
NO.	Prover Line Size	X	Orifice Size
SI			
1.	2.067 x 0.875		
2.			
3.			
4.			
5.			
RATE OF FLOW CALCULATIONS		CASING DATA	
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m
1	3.729	101.23	683.2
2	3.729	138.31	683.2
3	3.729	186.80	684.2
4	3.729	254.95	684.2
5			
NO.	P _g	Temp. °R	T _r
1	1.018	535	1.480
2	1.018	535	1.480
3	1.020	535	1.480
4	1.020	535	1.480
5			
Gas Liquid Hydrocarbon Ratio		A.P.L. Gravity of Liquid Hydrocarbons	
		0.673	
Specific Gravity Separator Gas		X X X X X X X X	
		0.673	
Specific Gravity Flowing Fluid		X X X X X	
		671 P.S.I.A.	
Critical Pressure		361.5 R	
Critical Temperature		398 R	
P _c 1131.2 P _w 1280			
NO.	P _c ²	P _w ²	P _c ² - P _w ²
1		1123	157
2		1039	241
3		926	354
4		755	525
5			
(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.4381$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.0153$	
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2435$			
Absolute Open Flow		2435 Mcf @ 15.025	
Static pressures by Bennett Wireline; Flowing pressures by DWT.		Angle of Slope α 51.8 deg	
Calculations worksheet C-122D attached.		Slope, n 0.7863	
Approved By Construction:		Conducted By: David Weaver	
		Calculated By: Eddie Mahfood	
		Checked By:	