

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

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 3-16-81	
Company Yates Petroleum Corp.				Connection Transwestern Pipeline Co.	
Pool Wildcat				Formation Wolfcamp	
Completion Date 3-10-81		Total Depth 8947 KB		Plug Back TD 6800 KB	
				Elevation 3748 KB	
Casing Size 4 1/2		Wt. 10.5#		Set At 8182	
Tubing Size 2 3/8"		Wt. 4.7#		Set At 6288	
Perforations: From 6290 To 6314 KB				Well No. 1	
Perforations: From To				Unit F 28 19s 24e	
Type Well - Single - Draddenhead - G.G. or G.O. Multiple single				Packer Set At 6232 KB	
Producing Thru Tubing		Reservoir Temp. °F 123 @ 6302		Mean Annual Temp. °F 62	
				Baro. Press. - P _a 13.2	
L 6294		H 6294		C _g 0.6425	
				% CO ₂ 0.22	
				% N ₂ 1.46	
				% H ₂ S N.7	
				Prover ---	
				Meter Run 2"	
				Taps Flanged	

FLOW DATA											
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	TUBING DATA		CASING DATA		Duration of Flow
							Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
1.	2.067	X	1.375	450	10	60	1889	57			Days
2.	2.067	X	1.375	440	17	60	1686	69			18 hrs.
3.	2.067	X	1.375	435	28	58	1527	71			24 hrs.
4.	2.067	X	1.375	430	43	58	1325	72			24 hrs.
5.							1032	73			24 hrs.

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcld
1	10.20	68.06	463.2	1.000	1.260	1.045	914
2	10.20	87.77	453.2	1.000	1.260	1.044	1178
3	10.20	112.02	448.2	1.002	1.260	1.044	1506
4	10.20	138.05	443.2	1.002	1.260	1.044	1856
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 227.4			
1	0.688	520	1.417	.9156	A.P.I. Gravity of Liquid Hydrocarbons 63.5			
2	0.673	520	1.417	.9179	Specific Gravity Separator Gas 0.630			
3	0.666	518	1.411	.9174	Specific Gravity Flowing Fluid XXXXX			
4	0.659	518	1.411	.9181	Critical Pressure 673 P.S.I.A.			
5					Critical Temperature 367 °R			

NO.	P _r ²	P _w ²	P _w ²	P _r ² - P _w ²	$(1) \frac{P_r^2}{P_r^2 - P_w^2} = 1.4348$ $(2) \left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.2735$ $AOF = Q \left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 2364$
1			4144	1106	
2			3398	1852	
3			2567	2683	
4			1591	3659	
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Absolute Open Flow 2364 Mcld @ 15.025		Angle of Slope 56.2 deg		Slope, n 0.6696	
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Remarks: Static pressures by Bennett Wireline, flowing pressures by DWT. Calculations worksheet C122D attached.

Approved By Commission:	Conducted By: Danny Matthews	Calculated By: Eddie Mahfood	Checked By:
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