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APR 6 1977

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 2-15-77	
Company Yates Petroleum Corp.		Connection Transwestern Pipeline Co.	
Pool W. Atoka		Formation Morrow	
Completion Date 8-22-74		Total Depth 8740' KB	Perforations 8561' KB
Csg. Size 4 1/2"		Well No. 1-Com	Elevation 3507' KB
Thq. Size 2-3/8"		Perforations: X-Over	Unit Sec. Twp. Rge. 0 35- 17S- 25E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Dual - G. G.		Packer Set At 6500' & 8312'	County Eddy
Producing Thru Csg. Annulus		Reservoir Temp. °F 139	Mean Annual Temp. °F 62
Baro. Press. - P _a 13.2		State New Mexico	
L 8363	H 8363	Gg 0.54	% CO ₂ 0.30
% H ₂ S Nil		Prover 2"	Taps Flange

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							2392	46			Months
1.	2.067	X 0.750		315	12	68	2251	48			1 hr.
2.				317	25	66	2172	50			1 hr.
3.				320	46	64	2037	51			1 hr.
4.				322	78	63	1840	50			1 hr.
5.											

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, Mcfd
1	2.709	62.757	328.2	.9924	1.241	1.031	216
2		90.857	330.2	.9943	1.241	1.032	313
3		123.803	333.2	.9962	1.241	1.033	427
4		161.696	335.2	.9971	1.241	1.033	557
5							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	.488	528	1.412	.940	83.2	56.0	0.649	X X X X X X X X	673	374
2	.491	526	1.406	.939				X X X X X	671	385
3	.495	524	1.401	.938						
4	.498	523	1.398	.937						
5										

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1			8692	1025
2			8114	1603
3			7156	2561
4			5781	3936
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.469$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.7862$

ACF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 995$

Absolute Open Flow 995 Mcfd @ 15.025		Angle of Slope θ 57.6°	
Slope, n 0.634			

Remarks: Static Pressures by Bennett Wireline prior to PL connection.
Flowing tubing pressures by Dead Weight Tester. Calculations worksheet C-122D attached.

Approved By Commission:	Conducted By: Don Weaver	Calculated By: Eddie Mahfood	Checked By:
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