

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 8-27-78		OCT 5 1978	
Company Yates Petroleum Corp.		Connection Transwestern Pipeline Co.			
Pool Burton Flat (Morrow)		Formation Morrow		Unit O.G.C. ARTESIA, OFFICE	
Completion Date 7-20-78		Total Depth 11572' KB		Plug Back TD 11493' KB	
Csg. Size 5 1/2"		Wt. 20#		Elevation 3276' KB	
Tbg. Size 2-3/8"		Wt. 4.7#		Perforations: From 11136 To 11181 KB	
		Set At 11525'		Perforations: From 11085 To 11087 KB	
Farm or Lease Name Stonewall WP State		Well No. 4		Unit Soc. Twp. Rge. H 30 20S 28E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 11078	
Producing Thru Tubing		Reservoir Temp. °F 167° 11158		Mean Annual Temp. °F 62	
Baro. Press. - P _a 13.2		County Eddy		State New Mexico	
L 11148		H 11148		Gg 0.618	
% CO ₂ 0.75		% N ₂ 0.31		% H ₂ S Nil	
Prover 4"		Meter Run 4"		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							3242	57			days
1.	4.026x2.250			650	9	65	2931	62			1 hr
2.				651	19	65	2772	68			1 hr
3.				652	36	65	2564	73			1 hr
4.				653	69	65	2240	77			1 hr
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	25.64	77.26	663.2	.9952	1.285	1.0575	2679
2	25.64	112.34	664.2	.9952	1.285	1.0576	3896
3	25.64	154.75	665.2	.9952	1.285	1.0577	5366
4	25.64	214.40	666.2	.9952	1.285	1.0577	7435
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	.984	525	1.462	.8942	148.0	52.2	0.606	.627	674	359
2	.985	525	1.462	.8941						
3	.987	525	1.462	.8939						
4	.988	525	1.462	.8938						
5										

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1			15303	2745
2			14157	3891
3			12951	5097
4			11593	6455
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.796$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 20790$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.796$

Absolute Open F.	20790	Mcf/d @ 15.025	Angle of Slope °	45 deg.	Slope, n	1.000
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Remarks: Static pressures by Bennett Wireline, flowing pressures by DWT. Calculation work sheet C-122D attached.

Approved By Commission	Conducted By: Bill Trembley, Jr.	Calculated By: Eddie Mahfood	Checked By:
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