

ILLEGIBLE

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 12/30/74	
Company Exxon Corporation		Connection None	
Pool FAIRVIEW MILLS		Formation Wolfcamp	
Completion Date 12/30/74	Total Depth 20,915'	Plug Back TD 13,830'	Elevation 3,332' GR
Col. Size 7 5/8	wt. 39.0	Set At 6.625	Perforations: From 13,797' To 13,805'
Trq. Size 2 7/8	wt. 10.7	Ave. 2.25	Set At 13,765'
Type Well - Single - Bradenend - G.G. or G.O. Multiple Single		Packer Set At 13,765	Form or Lease Name Fairview Mills-Federal
Producing Thru Tubing	Reservoir Temp. °F 185 @ 13,800'	Mean Annual Temp. °F --	Baro. Press. - P _a 13.2
L 13,797	H 13,797	G ₁ .702	% CO ₂ 0.26
		% N ₂ 1.15	% H ₂ S 0
		Prover --	Motor Run 4"
			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							7177	55	PR		
1.	4 x 2.50			383	2.4	82	6760	62			60 min.
2.	4 x 2.50			383	9.0	100	5330	66			60 min.
3.	4 x 2.50			383	19.4	94	3980	70			60 min.
4.	4 x 2.50			375	36.0	88	3080	74			60 min.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mhd
1	33.29	30.85	396	.9795	1.194	1.040	1249
2	33.29	59.70	396	.9636	1.194	1.036	2369
3	33.29	87.56	396	.9688	1.194	1.038	3500
4	33.29	118.20	388	.9741	1.194	1.039	4755
5							

NO.	P _r	Temp. °R	T _r	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	.587	542	1.39	.925	4.2	52.1	.702	1.22	674	390
2	.587	560	1.44	.931						
3	.587	554	1.42	.929						
4	.576	548	1.41	.926						
5										

P _r 7190		P _c 51696	
NO.	P _r	P _w	P _w ²
1	45874	6790	46104
2	28548	5414	29311
3	15944	4129	17049
4	9567	3474	12069
5			

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.9$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.9$$

$$ACF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 5700$$

Absolute Gas Flow	5700	Mhd @ 15.025	Angle of Slope	45	Slope, n	1.00
Remarks:						
Approved by	Conducted by		Checked by		Checked by	
<i>[Signature]</i>	L. S. Ivanhoe		W. E. Purchard			
	A. L. Sossamon					