NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 12/30/74	
Company: Exxon Corporation		Connection: None			
Pool: --		Formation: Wolfcamp		Unit	
Completion Date: 12/30/74	Total Depth: 20,915'	Plug Back TD: 13,830'	Elevation: 3,332' GR	Farm or Lease Name: Fairview Mills-Federal	
Csg. Size: 7 5/8 / Wt.: 39.0 / d: 6.625 / Set At: 16,835'		Perforations: From 13,797' To 13,805'		Well No.: 1	
Tbg. Size: 2 7/8 / Wt.: 10.7, 8.7, 7.9 / d: Ave. 2.25 / Set At: 13,765'		Perforations: From Open Ended To		Unit: "O" / Sec.: 14 / Twp.: 25-S / Rge.: 34-E	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: 13,765		County: Lea	
Producing Thru: Tubing	Reservoir Temp. °F: 185 @ 13,800'	Mean Annual Temp. °F: --	Baro. Press. – P_a: 13.2	State: New Mexico	

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
13,797	13,797	.702	0.26	1.15	0	--	4"	Flange

NO.	FLOW DATA: Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI					7177	55	PK		
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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
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_t	Temp. °R	T_r	Z
1.	.587	542	1.39	.925
2.	.587	560	1.44	.931
3.	.587	554	1.42	.929
4.	.576	548	1.41	.926
5.				

Gas Liquid Hydrocarbon Ratio 4.2 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 52.1 Deg.
Specific Gravity Separator Gas .702 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX 1.22
Critical Pressure 674 P.S.I.A. ____ P.S.I.A.
Critical Temperature 390 R ____ R

P_c 7190 P_c^2 51696

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	45874	6790	46104	5592
2	28548	5414	29311	22385
3	15944	4129	17049	34647
4	9567	3474	12069	39627
5				

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

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

Absolute Open Flow 5700 Mcfd @ 15.025 Angle of Slope θ 45 Slope, n 1.00

Remarks:

Approved by Commission:	Conducted By:	Calculated By:	Checked By:
John W. Runyan	L. B. Ivanhoe A. L. Sossomon	W. E. Burchard	

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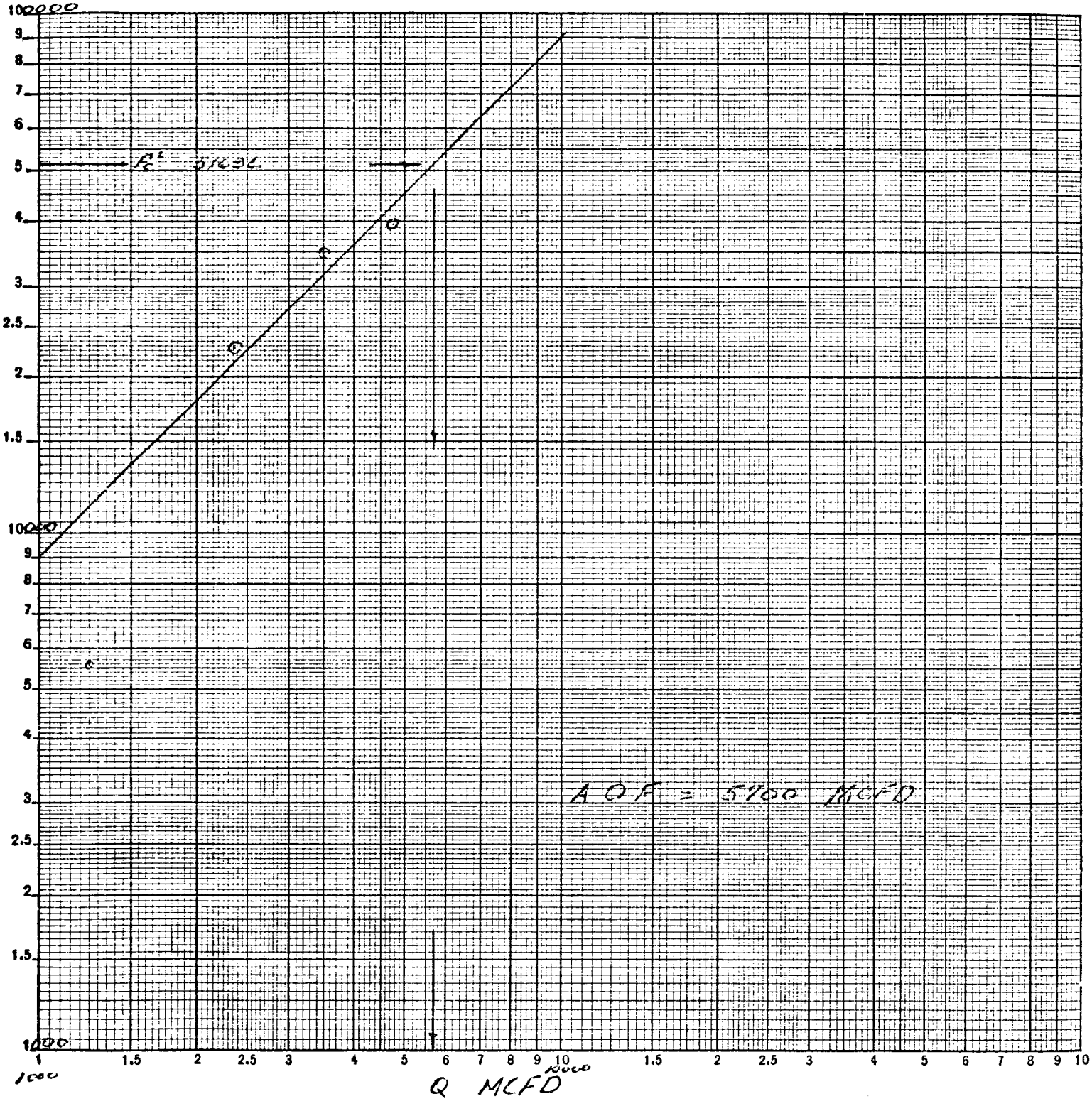
COMPANY: EXXON CORPORATION

WELL: FAIRVIEW MILLS - FEDERAL No. 1

LOCATION: 14 - 25S - 34E

COUNTY: LEA

DATE: DEC. 30, 1974



$\overline{\Delta P_1}^2 = 90000$ $Q_1 = 10000$ $\log Q_1 = 4.000$

$\overline{\Delta P_2}^2 = 9000$ $Q_2 = 1000$ $\log Q_2 = 3.000$

$n = 1.000$

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