NEW MEXICO
OIL CONSERVATION COMMISSION

Form C-122

Back Pressure Data Sheet

Pool: Red Hills (Pennsylvanian) Date: January 28, 1965

Company: The Pure Oil Company Lease: Red Hills Unit Well No. 1

County: Lea Sec. 32 Twp. 25-S Rge. 33-E Loc. 2,310' FEL and 330' FSL

5.666" ID casing set @16,962'; 2.229" ID tubing 2-7/8" OD tubing set @ 13,797'

Pay zone from 14,350' to15,530'; Separator gas gr. .580 Barometer rdg. 13.2 psi

Reservoir temperature 194 F° Produced through: csg. - tbg. 2-7/8" OD

Average gas/liquid ratio during test: - Cu. ft. /bbl. gravity of liquid - ° API

Size of meter run or prover: 6.065" I.D.

OBSERVED DATA

Wellhead shut-in pressure, P_w Casing 1000 psig Tubing 4426 PSIA

Run No.	Orifice Size	Orifice x Line	Meter Pressures Static P_m Abs.	Meter Pressures Diff. h_w	Coefficient C Flg. tap X Pipe tap	Wellhead Pr. Casing P_{wc} Abs.	Wellhead Pr. Tubing P_{wc} Abs.	Flowing Temp. Meter	Flowing Temp. Wellhead
1	1.75"	1.75x6.065	683.9	49.0	18.86	800	4057.2	76	84
2	3.50"	3.50x6.065	692.3	19.36	80.64	1500	3295.2	82	108
3	3.50"	" "	692.3	32.49	80.64	1680	2831.2	80	110
4	3.50"	" "	709.2	47.61	80.64	1520	1898.2	80	106

DATA FOR PLOTTING CURVE

Run No.	Delivery Rate in MCF per 24 hours (Q)	$P_f^2 - P_s^2$ (thousands)
1	3,652.8	2,934
2	9,792.8	7,332
3	12,721.6	9,212
4	15,612.6	12,430
5		

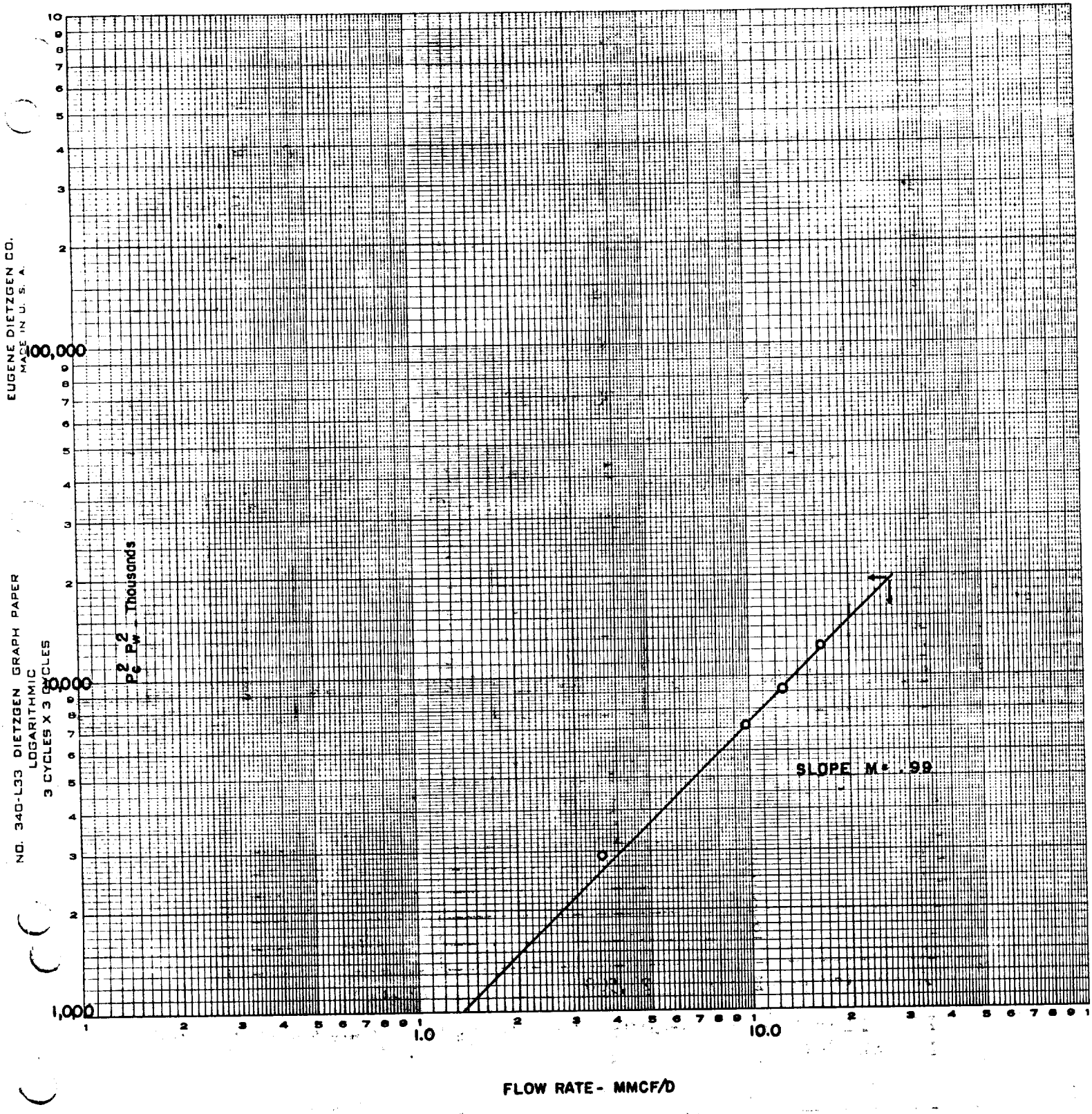
Absolute Open Flow 26,500 MCF

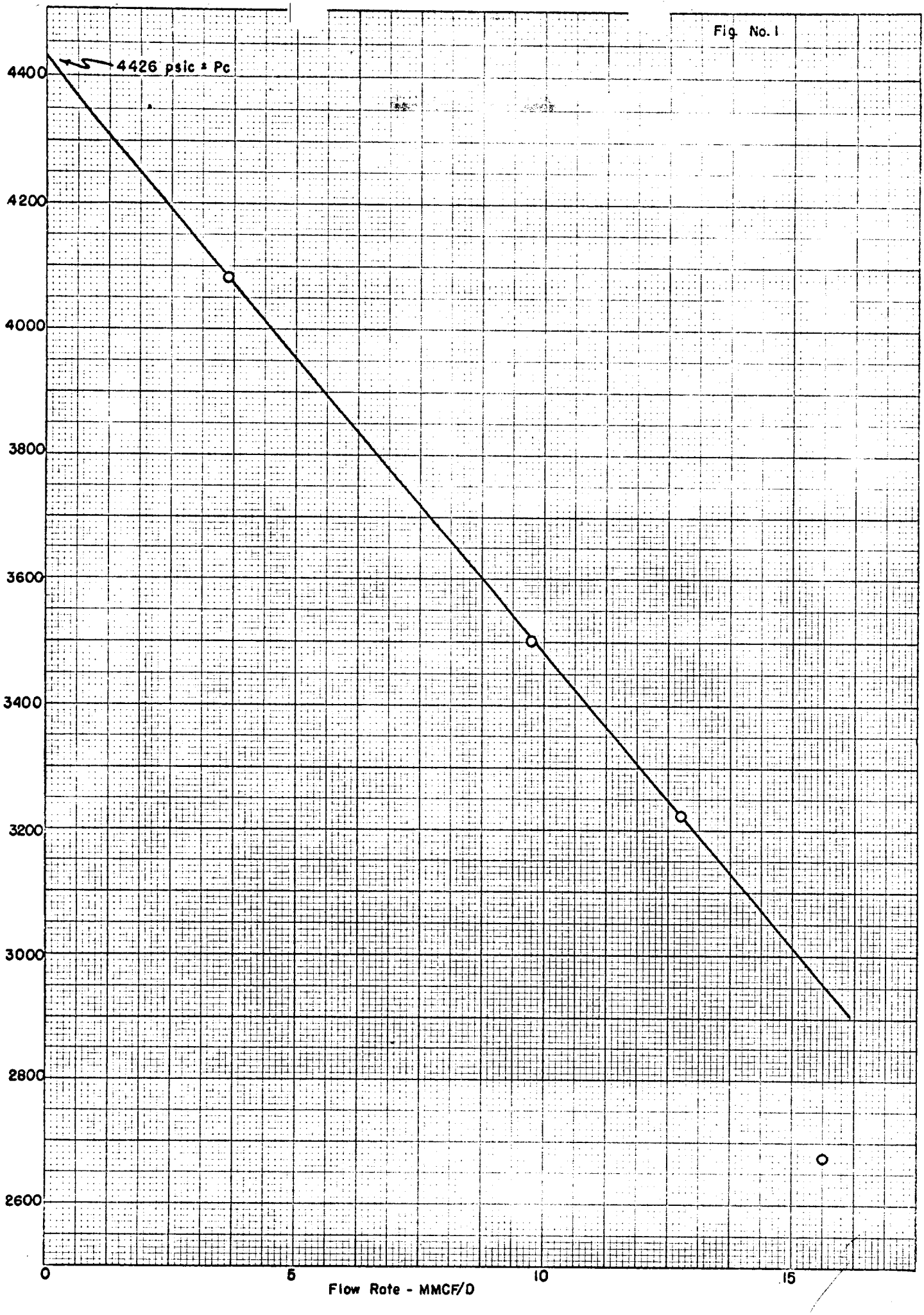
CERTIFICATION: I hereby swear or affirm that, to the best of my knowledge, the information given above is true and correct.

Name: N B Ross Position: Petroleum Engineer

Company: The Pure Oil Company Address: P. O. Box 671 - Midland, Texas

Please plot curve on back


EUGENE DIETZGEN CO.
MADE IN U. S. A.
NO. 340-L33 DIETZGEN GRAPH PAPER
LOGARITHMIC
3 CYCLES X 3 CYCLES
$P_e^2 - P_w^2$ — Thousands
100,000
10,000
1,000
1.0
10.0
SLOPE M = .99
FLOW RATE - MMCF/D



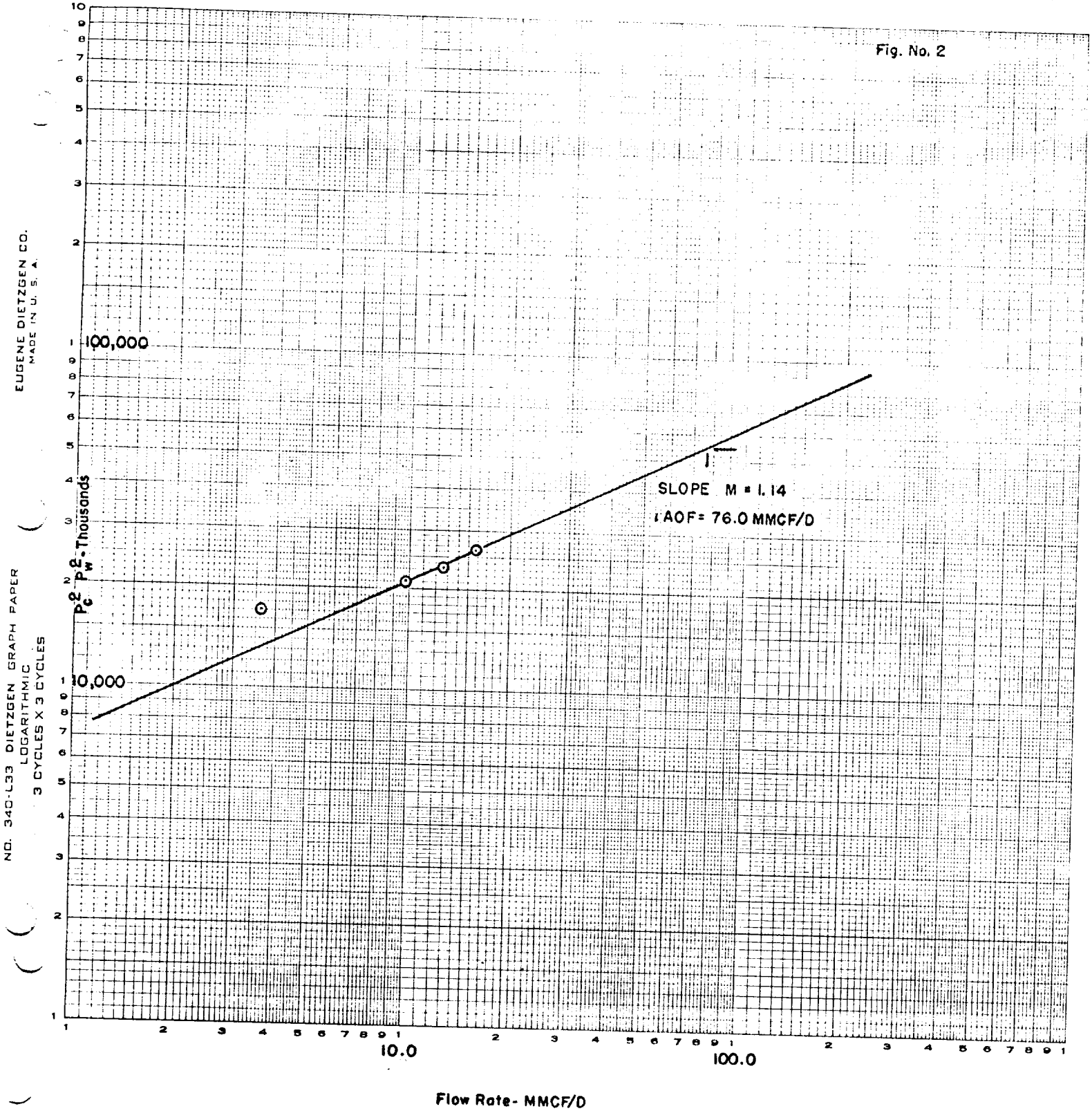


Fig. No. 2
SLOPE M = 1.14
AOF = 76.0 MMCF/D
100,000
10,000
$P_c^2 - P_w^2$ - Thousands
10.0
100.0
Flow Rate - MMCF/D
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LOGARITHMIC
3 CYCLES X 3 CYCLES