

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Copy 4 2-122
Form C-122
Revised 9-1-65
2/15/81

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 12-11-73		MAR 25 1974	
Company Corpening Enterprises			Connection None		
Pool Undesignated			Formation Clearfork		
Completion Date 12-1-73		Total Depth 3700		Plug Back TD 3455 3400	
Csg. Size 5 1/2		Wt. 15.5		Elevation 4012	
Perforations: From 3008 To 3027		Sel At 3500		Farm or Lease Name Exxon State	
Perforations: From To		Sel At 2975		Well No. 1	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 2975		Unit Sec. Twp. Rge. M 16 16S 31E	
Producing Thru Tubing		Reservoir Temp. °F 84 @ 2967		Mean Annual Temp. °F 60	
Baro. Press. - P _a 13.2		County Eddy		State New Mexico	
L 3017	H 3017	Gg 0.793	% CO ₂	% N ₂ 39%	% H ₂ S
Prover X		Meter Run		Taps	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. ΔX" Hg	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI	Orifice Tester										
1.	2"	X	1/8		31	70	629				
2.	2"	X	1/4		15.5	70	626	70			60 min.
3.	2"	X	3/8		14	70	618	70			60 min.
4.	2"	X	3/8		24	70	601	70			60 min.
5.	2"	X	1/2		28	70	586	70			60 min.
							515	70			60 min.

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 hour)	$\sqrt{h_w P_m}$	Pressure ΔX" Hg	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress Factor, F _{sp}	Rate of Flow Q, Mcfd
1.	9.45		31	0.9905	1.123	0.9585	10.075
2.	20.37		15.5	0.9905	1.123	0.9580	21.707
3.	40.82		14	0.9905	1.123	0.9579	43.494
4.	55.69		24	0.9905	1.123	0.9583	59.363
5.	108.44		28	0.9905	1.123	0.9584	115.603

NO.	P ₁	Temp. °R	T ₁	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.	Used Simplified				Specific Gravity Separator Gas 0.793
3.	Supercompressibility Tables				Specific Gravity Flowing Fluid _____
4.					Critical Pressure 599 P.S.I.A.
					Critical Temperature 314 °R

P ₁ 504	P ₂ 704.2	P ₃ 496	P ₄ 696.2	P ₅ 485	P ₆ 678.2	P ₇ 460	P ₈ 661.2	P ₉ 437	P ₁₀ 586.2	P ₁₁ 344	P ₁₂ 160
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(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{P_c^2}{P_c^2 - P_w^2}$

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

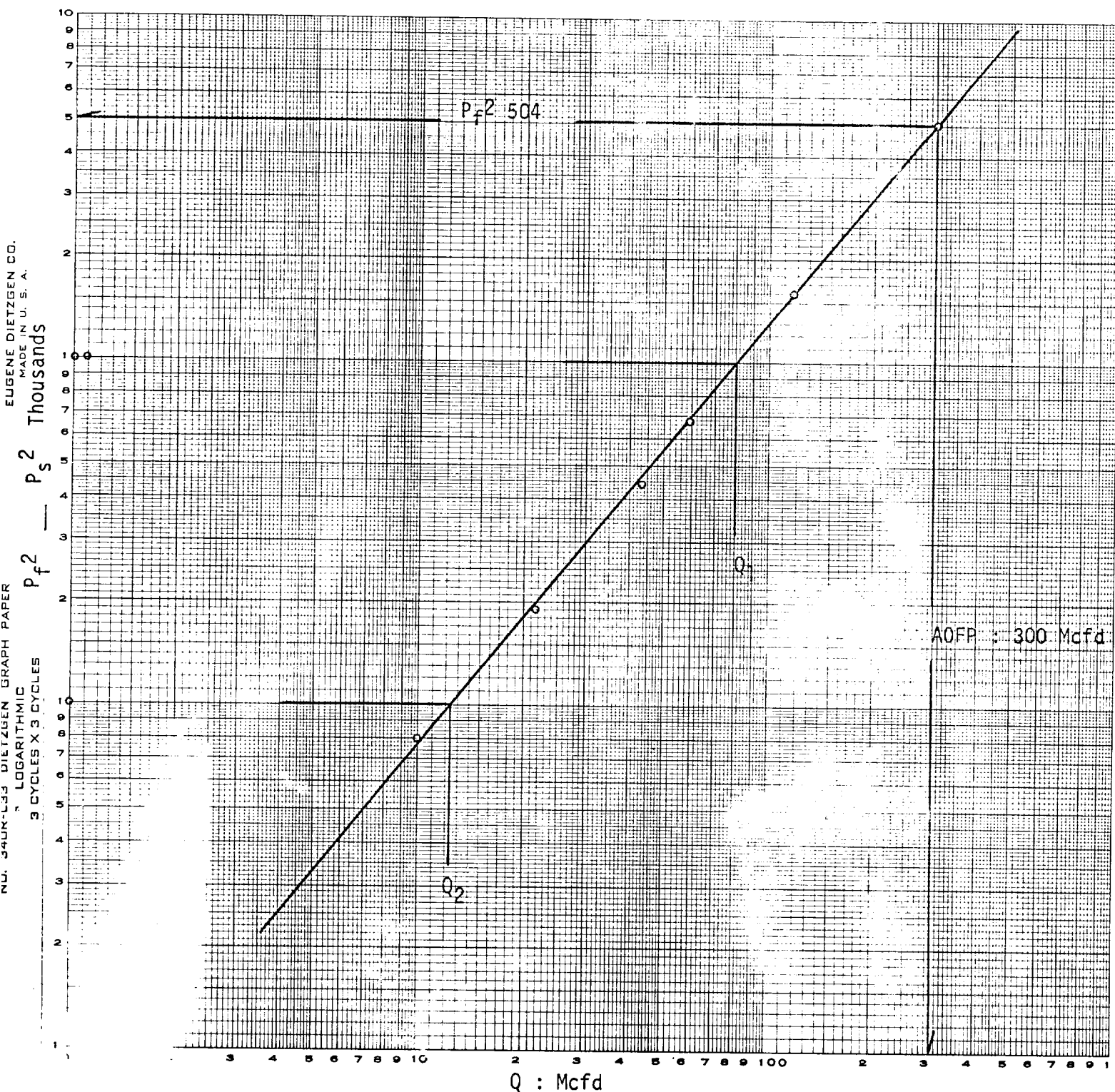
$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$

Flow 300	Mcf/d @ 15.025	Angle of Slope 50° 46'	Slope, n 0.81673
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Flow measured with Amerada RPG-3 gauge.

Conducted By: Teffteller, Inc.	Calculated By: F. Teffteller	Checked By:
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Company : Corporation Enterprises
 Well : Exxon State No. 1
 Field : Undesignated
 County : Eddy
 State : New Mexico
 Date : December 11, 1973



10.0 ; Log Q_1 = 1.90309
 12.2 ; Log Q_2 = 1.08636
 n = 0.81673
 θ = $50^\circ 46'$