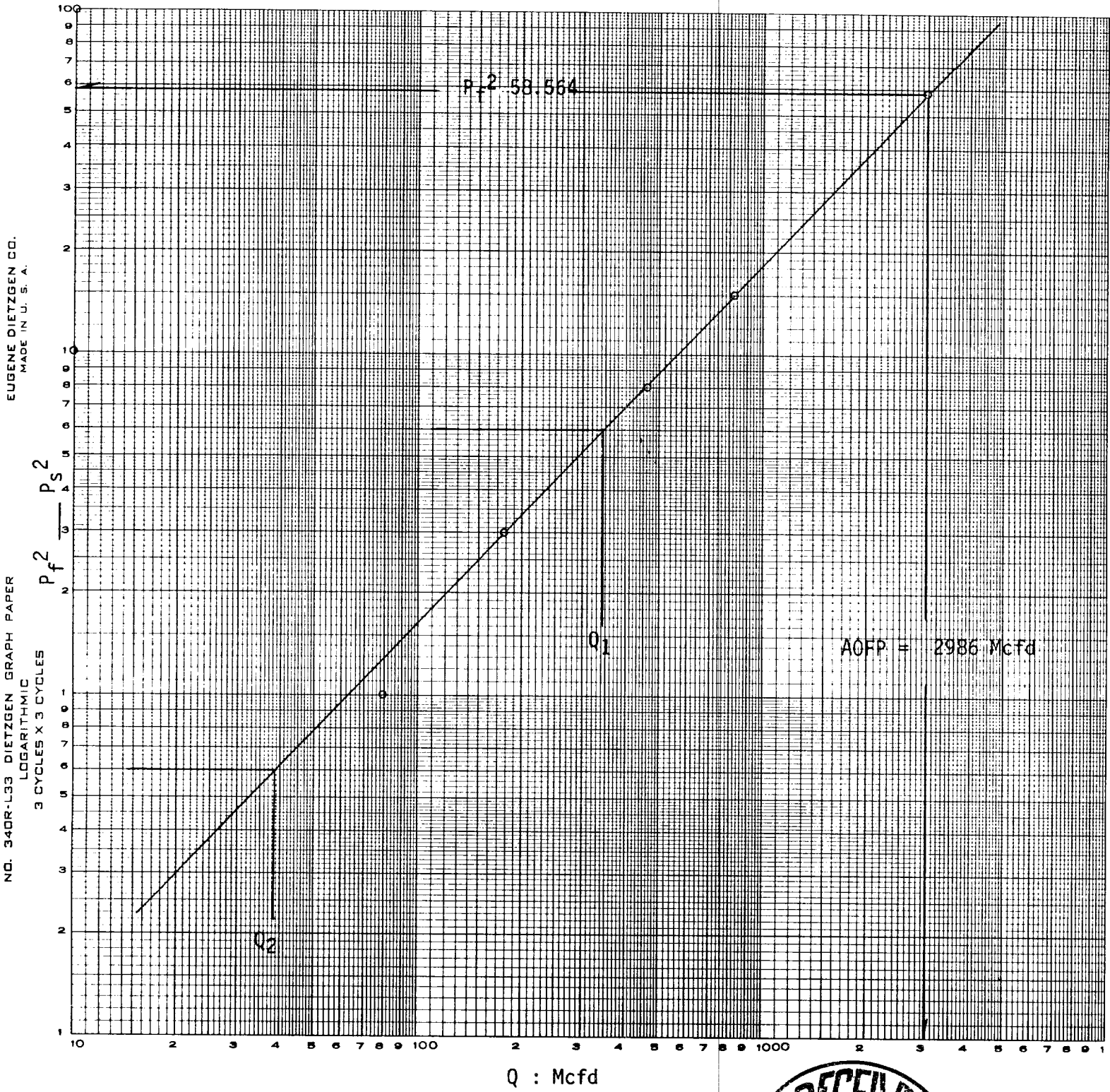


NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 10-21-75			
Company Shell Oil Company			Connection					
Pool Bisti Area			Formation Pictured Cliffs		Unit			
Completion Date		Total Depth		Plug Back TD	Elevation			
Csg. Size 4.5		Wt.	d	Set At	Perforations: From 1112 To 1130			
Thg. Size 2.375		Wt.	d	Set At 1088	Perforations: From To			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single Gas					Packer Set At 1088			
Producing Thru Tubing		Reservoir Temp. °F 82 @ 1110		Mean Annual Temp. °F	Baro. Press. - P _a 12.0			
L	H	G _g 0.650	% CO ₂	% N ₂	% H ₂ S			
Prover X		Meter Run		Taps				
FLOW DATA								
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F		
SI	6 days							
1.	2	X	1/8					
2.	2	X	3/16					
3.	2	X	5/16					
4.	2	X	1/2					
5.								
TUBING DATA								
				Press. p.s.i.g.	Temp. °F			
				224				
				223	63			
				219	66			
				206	68			
				142	68			
CASING DATA								
				Press. p.s.i.g.	Temp. °F			
				Pkr				
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, Mcfd	
1	0.3418		235	.9971	.9608	1.024	79	
2	0.7851		231	.9943	.9608	1.024	177	
3	2.1577		218	.9924	.9608	1.022	458	
4	5.5283		154	.9924	.9608	1.016	824	
5								
NO.	P _f	Temp. T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.				
1				A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.				
2				Specific Gravity Separator Gas 0.650 X X X X X X X X				
3				Specific Gravity Flowing Fluid X X X X X				
4				Critical Pressure _____ P.S.I.A. _____ P.S.I.A.				
5				Critical Temperature _____ R _____ R				
P _f 242 P _f ² 58.564								
NO.	P _f ²	P _s	P _s ²	P _f ² -P _s ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.8277$			(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.624164$
1		241	58.081	1				
2		237	56.169	3				
3		225	50.625	8				
4		208	43.264	15				
5								
Absolute Open Flow 2986 Mcfd @ 15.025								
Angle of Slope @ 46° 11'				Slope, n 0.9593				
Remarks:								
Approved By Commission:		Conducted By: Tefteller, Inc.		Calculated By: N. Tefteller		Checked By:		

Company : Shell Oil Company
Well : Carson Unit No. 13-11
Field : Bisti Area
County : San Juan
State : New Mexico
Date : October 21, 1975



$Q_1 = 346$; $\log Q_1 = 2.539076$
 $Q_2 = 38$; $\log Q_2 = 1.579784$
 $\theta = 46^\circ 11'$
 $n = 0.959292$

