

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

Form C-122
Revised 9-1-55

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 1-8-76	
Company Mobil Oil Corp.				Connection	
Field Basin Dakota Gas Pool				Formation Dakota	
Completion Date 10-25-75		Total Depth 7000		Plug Back TD 6937	
Casing Size 5 1/2		Set At 15.5		Elevation 6262 B.L.	
Tubg. Size 2 3/8		Set At 4.70		Well No. 4	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None	
Producing Thru tubing		Reservoir Temp. °F 142		Mean Annual Temp. °F 60	
Baro. Press. - P _a 12.0		County Rio Arriba		State New Mexico	
L 6862	H 6862	Gg 0.729	% CO ₂ —	% N ₂ —	% H ₂ S —
Prover 0.75		Meter Run 2"		Taps —	

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.	
SI							1204	60	1463	60
1.	2	x	.75				292	60	626	60
2.										
3.										
4.										
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	9.453	—	89	0.9952	1.171	1.038	1017.7
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 31,203 Mcf/cu.
1	.455	525	1.309	0.928	A.P.I. Gravity of Liquid Hydrocarbons 46.0 Deg.
2.					Specific Gravity Separator Gas 0.729 XXXXXXXXXX
3.					Specific Gravity Flowing Fluid XXXXXX
4.					Critical Pressure 668 P.S.I.A. P.S.I.A.
5.					Critical Temperature 401 °R °R

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.37981$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.2731$
1		638	407.0	1071.6		
2.						
3.						
4.						
5.						

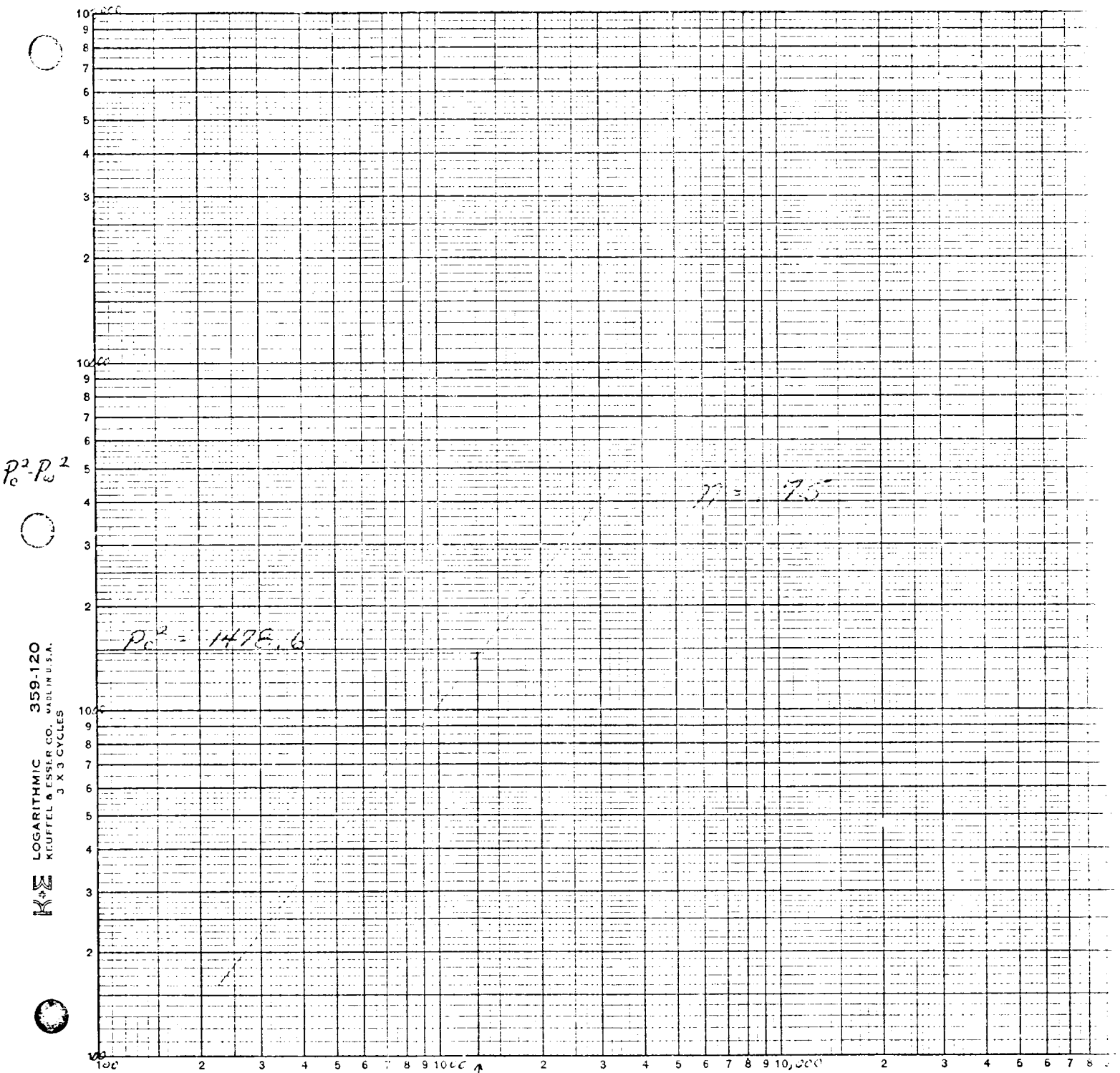
ACF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1295.6$			
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Absolute Open Flow 1295.6 Mcfd @ 15.025	Angle of Slope 53.1°	Slope, n .75
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Remarks: _____

Approved By Commission:	Conducted By: DP	Calculated By: DP	Checked By: J. E. Gordon Jr
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Jicarilla Otero #4
 Basin Dakota Gas Pool
 Rio Arriba County, New Mexico



CAOF = 1295.6

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