

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 <u>12/13/77</u>	
Company <u>MOBIL OIL CORPORATION</u>				Connection <u>NINE</u>			
Pool <u>BLANCO MESA VERDE</u>				Formation <u>MESA VERDE</u>			
Completion Date		Total Depth <u>6350</u>		Plug Back TD <u>6322</u>		Elevation <u>7057' GL</u>	
Gas. Size <u>4 1/2"</u>		Wt. <u>10.5</u>		Set At <u>6350</u>		Perforations: From <u>5674</u> To <u>6156</u>	
Liq. Size <u>2 3/8"</u>		Wt. <u>4.7</u>		Set At <u>5956</u>		Perforations: From <u>-</u> To <u>-</u>	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple <u>SINGLE</u>						Packer Set At <u>-</u>	
Producing Thru <u>TBC</u>				Reservoir Temp. °F <u>154° @ 6000'</u>		Mean Annual Temp. °F <u>50°</u>	
L				H		Baro. Press. - P_b <u>12.2</u>	
Gg <u>0.652</u>				% CO ₂ <u>0.75</u>		% N ₂ <u>0.49</u>	
Gg <u>0.652</u>				% H ₂ S <u>-</u>		Prover <u>2"</u>	
Meter Run <u>-</u>				County <u>RIO ARriba</u>		State <u>NEW MEXICO</u>	

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.	Temp. °F	of Flow
51							1199	50°	1199	50°	175 hrs
1.	2"	x	0.75"	305	-	50°	409	71°	469	71°	3 hrs
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor F_t	Gravity Factor F_g	Super Compress. Factor, F_{pv}	Rate of Flow Q, Mhd
1	12.365	-	317.2	1.0039	0.9179	1.416	3526
2							
3							
4							
5							

NO.	P_f	Temp. °R	T_f	Z	Gas Liquid Hydrocarbon Ratio	Met/bul.
1	0.47	531	1.35	0.431	96	67.9
2						
3						
4						
5						

NO.	P_f	P_w	P_w^2	$P_f^2 - P_w^2$	(1) $\frac{P_c^2}{P_f^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_f^2 - P_w^2} \right]^n =$
1	1211.2	1467.0	464.0	1000.0	1.463	1.350
2						
3						
4						
5						

NO.	P_f	P_w	P_w^2	$P_f^2 - P_w^2$	(1) $\frac{P_c^2}{P_f^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_f^2 - P_w^2} \right]^n =$
1	1211.2	1467.0	464.0	1000.0	1.463	1.350
2						
3						
4						
5						

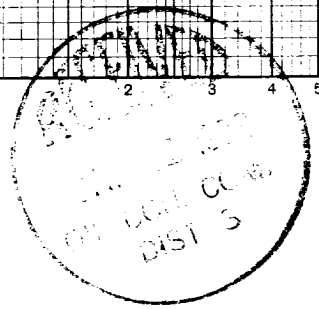
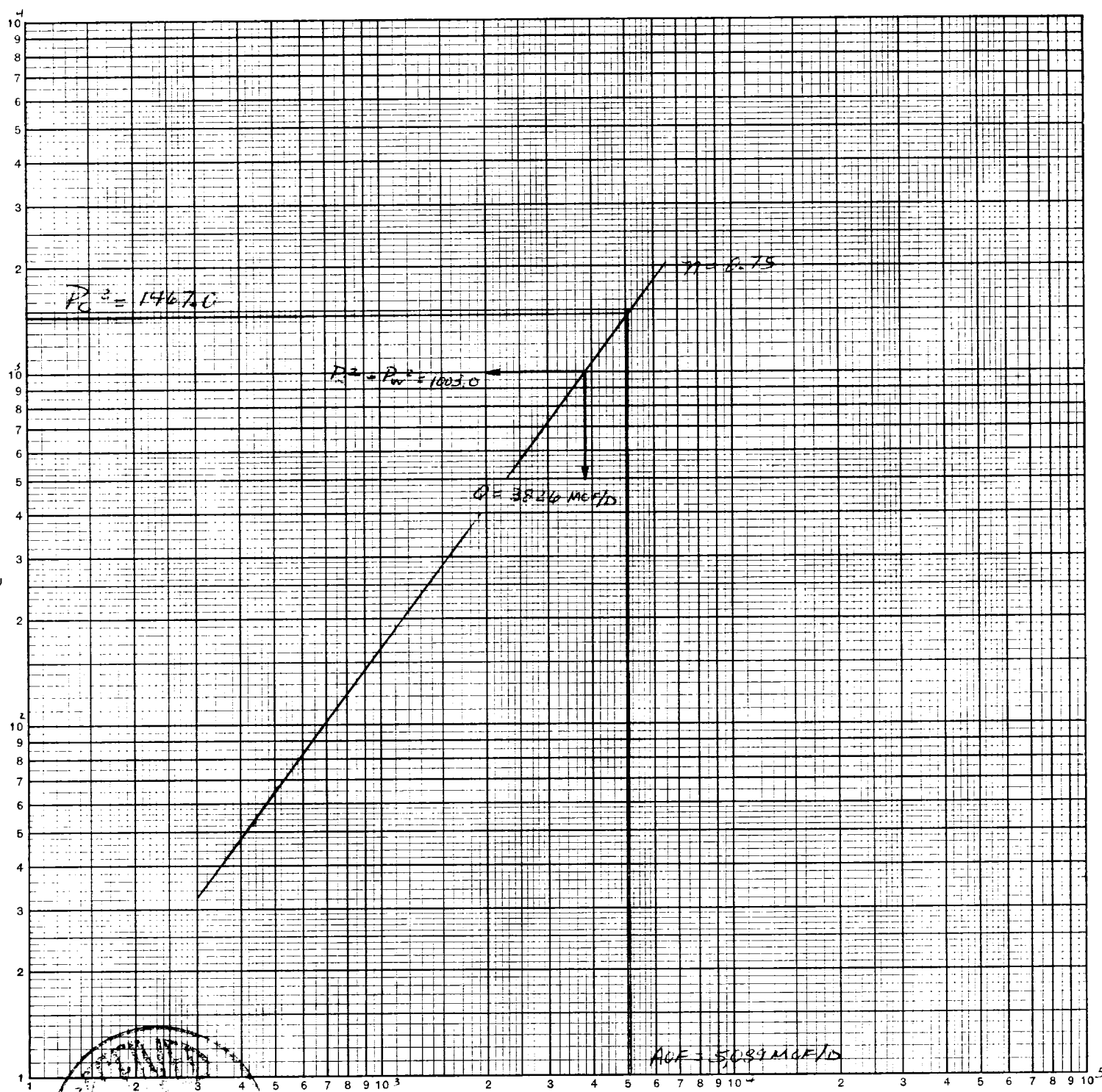
Module Gas Flow <u>5,009</u>	Module P, psia <u>521</u>	Angle of Slope θ <u>75</u>
Remarks: <u>Flowed! 5 Blt. CBW / 3 hrs.</u>		

Approved By: <u>[Signature]</u>	Conducted By: <u>K.R. Pritchard</u>	Calculated By: <u>[Signature]</u>	Checked By: <u>[Signature]</u>
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JICARILLA "F" #3-A
 BLANCO MESA VERDE
 RIO ARRIBA C., NEW MEXICO

KE LOGARITHMIC 46 7403
 3 X 3 CYCLES
 MADE IN U.S.A.
 KEUFFEL & ESSER CO.

$P_c^2 - P_w^2$



Flow Rate - MCF/D

12/15/77