

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

Form C-122
Revised 9-1-65

MAR 12 1976

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 3-3-76	
Company Mobil Oil Corp		Connections	
Pool BLANCO MESA VERDE		Formation MESA VERDE	
Completion Date 2/11/76	Total Depth 6350	Plug Back TD 6304	Elevation 7304 G.L.
Farm or Lease Name JICARILLA "G"		Well No. 3-A	
Csg. Size 4 1/2	Wt. 11.60 lb/ft	Set At 4.00	Perforations: From 5142 To 6210
Trg. Size 1 1/4	Wt. 1.80	Set At 6211	Perforations: From — To —
Type Well - Single - Drushenhead - G.G. or G.O. Multiple SINGLE		Packer Set At NONE	County RIO ARriba
Producing Thru T60	Reservoir Temp. °F 153 @ 6343'	Mean Annual Temp. °F 60°F	Baro. Press. - P _g 12.0
State N. MEX			
Prover 6211	H 6211	G _g 0.688	% CO ₂ — % N ₂ — % H ₂ S —
Prover 0.75		Meter Run 2.00	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.		Temp. °F
SI							1142	60	1211	60	7.24
1.	2	X	0.75	—	—	—	252	60	880	60	3.18
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 F _g	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mcf/d
1	9.453	—	165	0.9868	0.9338	1.017	1461.7
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1	0.247	534	1.376	0.966	51° @ 54°F	
2.					A.P.I. Gravity of Liquid Hydrocarbons	Deq.
3.					Specific Gravity Separator Gas	0.688
4.					Specific Gravity Flowing Fluid	XXXXXX
5.					Critical Pressure	669 P.S.I.A.
					Critical Temperature	388 R

NO.	P _t	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1	1154	892	795.7	536.0	2.4845	1.9790
2.						
3.						
4.						
5.						

NO.	ACF = Q	$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1		2892.6
2.		
3.		
4.		
5.		

Absolute Open Flow	2892.6	Mcf/d @ 15.025	Angle of Slope @	53.1	Slope, n	0.75
Remarks:						
Approved By Commission:						
Conducted By:		Calculated By:		Checked By:		
W. R. Pileggi		W. R. Pileggi		F. C. Gordon, Jr.		

GAS WELL
BACK PRESSURE CURVE

COMPANY: Mobil Oil Corporation

LEASE: Jicarilla "G" WELL NO. 3-A

POOL: Blanco Mesa Verde

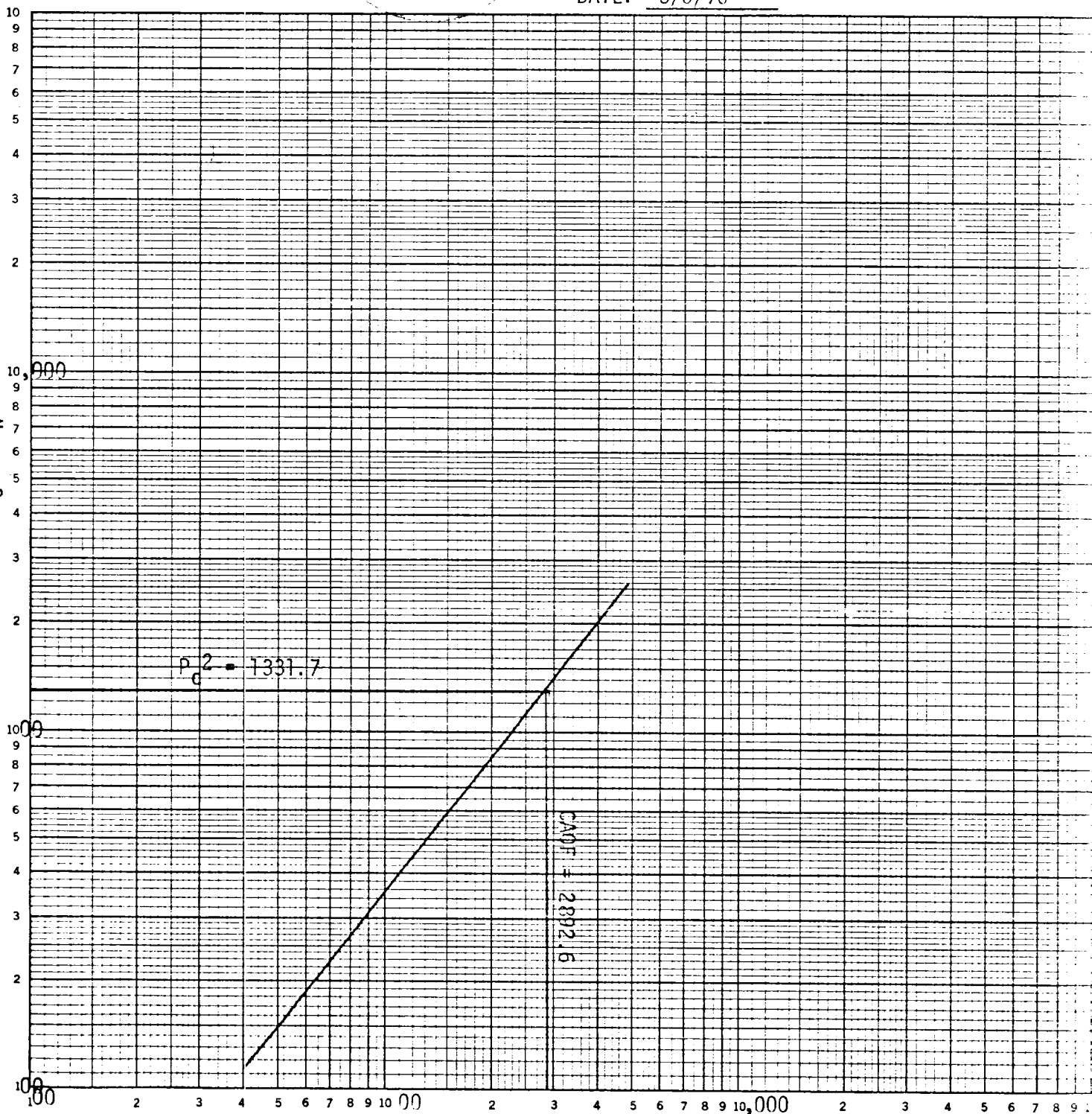
COUNTY & STATE: Rio Arriba, New Mexico

DATE: 3/6/76

46 7403

$P_C^2 - P_W^2$

K-S LOGARITHMIC 3 X 3 CYCLES
KEUFFEL & ESSER CO. MADE IN U.S.A.



$Q = \text{MCF/D}$

$n = 0.75$

$\theta = 53.1^\circ$