

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

Form C-122
1-65
RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 3/2/76		MAR 12 1976 OIL CON. COM. DIST.		
Company Mobil Oil Corp					Connection				
Pool BLANCO MESA VERDE					Formation MESA VERDE		Unit		
Completion Date 1/28/76		Total Depth 6250		Plug Back TD 6200		Elevation 7071 GL		Farm or Lease Name JICARILLA "H"	
Csg. Size 4 1/2	Wt. 11.60	d 4.00	Set At 6250	Perforations: From 5464' To 5996'		Well No. 6-A			
Tbg. Size 1 1/4	Wt. 1.80	d 1.18	Set At 6014	Perforations: From — To —		Unit Sec. Twp. Rge. E-2 -26N-3W			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE					Packer Set At NONE		County Rio Arriba		
Producing Thru Tbg		Reservoir Temp. °F 152° 6241'		Mean Annual Temp. °F 60°F		Baro. Press. - P _a 12.0		State N. MEX	
6014'	H 6014'	Gg 0.688	% CO₂ —	% N₂ —	% H₂S —	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							896	60	1366	60	7.44
1.	2 X 0.75			—	—	—	322	60	1165	60	3hr.
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 _{pv}	Rate of Flow Q, Mcfd
1	9.453	—	226	1.0019	0.9338	1.028	2054.7
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 96 Mcf/bbl.
1	0.338	518	1.335	0.947	A.P.I. Gravity of Liquid Hydrocarbons 35.6° @ 44°F Deg.
2.					Specific Gravity Separator Gas 0.688 X X X X X X X X
3.					Specific Gravity Flowing Fluid X X X X X
4.					Critical Pressure 667 P.S.I.A. P.S.I.A.
5.					Critical Temperature 388 R R

P _c 1378	P _c ² 1898.9	
NO.	P _r ²	P _w ²
1	1177	1385.3
2.		
3.		
4.		
5.		

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 3.6972$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 5478.4$$

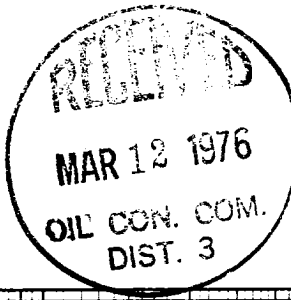
$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.6663$$

Absolute Open Flow 5478.4 Mcfd @ 15.025	Angle of Slope @ 53.1°	Slope, n 0.75
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Remarks: **PRODUCED 21.5 BBL CONDENSATE + TSTM BBL WATER. USED SHUT-IN-CASING-PRESSURE AS P_i DUE TO LARGE AMOUNT OF PRODUCED FLUIDS.**

Approved By Commission	Conducted By: W.R. Riley Jr	Calculated By: W.R. Riley Jr	Checked By: G.C. Gordon, Jr.
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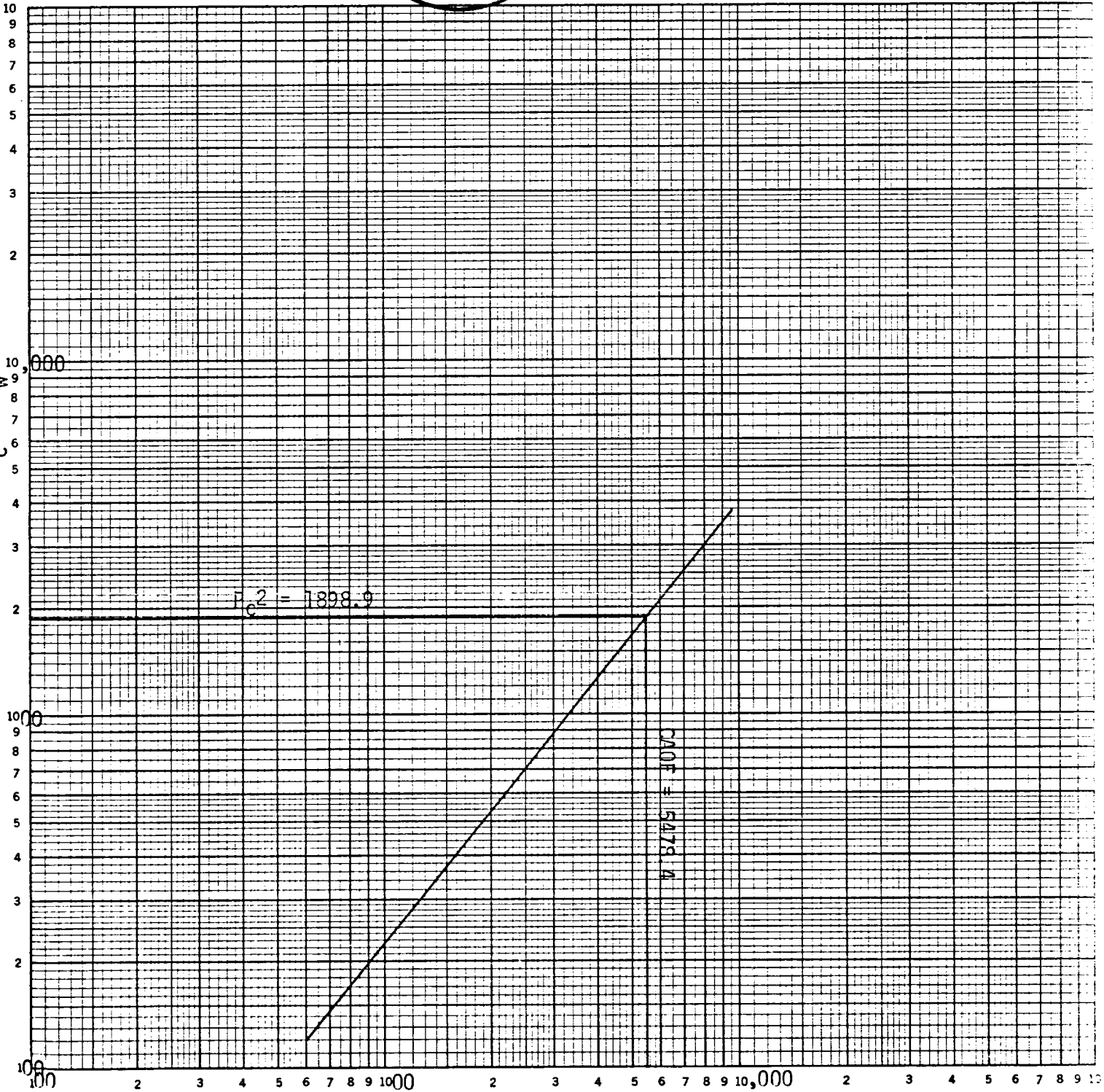
GAS WELL
BACK PRESSURE CURVE



COMPANY: Mobil Oil Corporation
LEASE: Jicarilla "H" WELL NO. 6-A
POOL: Blanco Mesa Verde
COUNTY & STATE: Rio Arriba, New Mexico
DATE: 3/6/76

$P_c^2 - P_w^2$ 46 7403

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



Q - MCF/D

$n = 0.75$

$\theta = 53.1^\circ$