

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 12-18-75			
Company Mobil Oil Corp.				Connection			
Pool Blanco Mesa Verde				Formation Mesa Verde			
Completion Date 10-21-75		Total Depth 6250'		Plug Back TD 6216'		Elevation 7272' G.L.	
Farm or Lease Name Jicarilla G				Well No. 7A			
Csg. Size 5 1/2"	Wt. 15.5 ^{lb} / _{ft}	d 4.950"	Set At 6250	Perforations: From 5669 To 6188			
Thq. Size 1 1/4"	Wt. 1.72 ^{lb} / _{ft}	d 1.049"	Set At 6200	Perforations: From — To —		Unit Sec. Twp. Rge. D-36-27N-3W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None		County Rio Arriba	
Producing Thru tubing		Reservoir Temp. °F 154 @ 6216'		Mean Annual Temp. °F 60		Baro. Press. - P _a 12.0	
State New Mexico							
L 6200	H 6200	Gg 0.688	% CO ₂ —	% N ₂ —	% H ₂ S —	Prover 3/4"	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										
1.	2"	x	.75"	—	—	79	691	60	1137	60
2.							123	60	960	60
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	—	61	0.9822	1.206	1.014	693
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	.202	539	1.389	.972	10.828	
2.					A.P.I. Gravity of Liquid Hydrocarbons	44.3 Deg.
3.					Specific Gravity Separator Gas	.688
4.					Specific Gravity Flowing Fluid	X X X X X
5.					Critical Pressure	669 P.S.I.A.
					Critical Temperature	388 R

NO.	P _t ²	P _w	P _w ²	P _c ² - R _w ²	(1) $\frac{P_c^2}{P_c^2 - R_w^2} = 3.517$	(2) $\left[\frac{P_c^2}{P_c^2 - R_w^2} \right]^n = 2.568$
1		972	944.8	325.4		
2						
3						
4						
5						

AOF = Q $\left[\frac{P_c^2}{P_c^2 - R_w^2} \right]^n = 1,779.7$

Absolute Open Flow	1779.7	Mcf/d @ 15.025	Angle of Slope	51°	Slope, n	.75
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Remarks: P_c = 9 day shut-in casing pressure - dead weight. - P_w - casing pressure at end of 3 hour flow test. - dead weight.

Approved By Commission:	Conducted By: David Olivar	Calculated By: David Olivar	Checked By: J.C. Sordani Jr.
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BACK PRESSURE CURVE

NEW MEXICO OIL

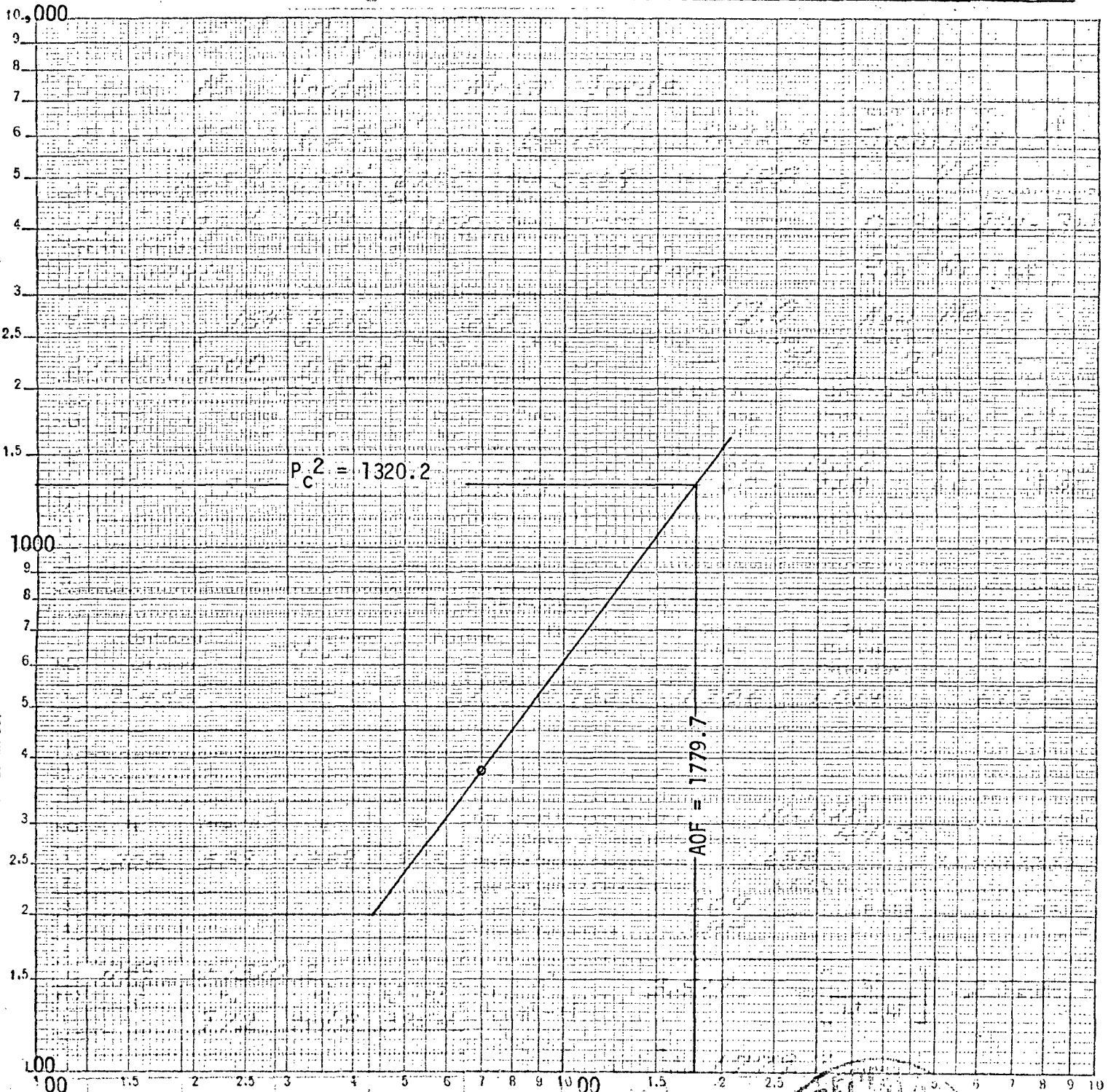
OPERATOR: Mobil Oil Corporation

LEASE: Jicarilla "G" WELL NO.: 7A

FIELD: Blanco Mesa Verde VOLUME: 1,779.7 MCF/PD

DATE: January 6, 1976

KE LOGARITHMIC 46 7203
 2 X 2 CYCLES
 MADE IN U.S.A.
 KEUFFEL & ESSER CO.



Absolute Open Flow <u>1779.7</u>		Mold # <u>51°</u>	
Remarks: <u>Pressure at end of 3 hour flow</u>		<u>n = .75</u>	
Approved By Consultant:	Checked By:	Calculated By:	
<u>Rand Allen</u>	<u>Rand Allen</u>	<u>J.E. Sonner</u>	

