

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

Form C-122  
Revised 9-1-65

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special				Test Date 12-18-75			
Company Mobil Oil Corp.				Connection			
Pool Blanco Mesa Verde				Formation Mesa Verde		Unit	
Completion Date 10-21-75		Total Depth 6250'		Plug Back TD 6216'		Elevation 7272' G.L.	
Farm or Lease Name Sicarilla G				Well No. 7A			
Csg. Size 5 1/2"	Wt. 15.5 1/4 lb/ft	d 4.950"	Set At 6250	Perforations: From 5669 To 6188		Well No.	
Thq. Size 1 1/4"	Wt. 1.72 1/4 lb/ft	d 1.049"	Set At 6200	Perforations: From — To —		Unit Sec. Twp. Rje. D-36-27N-3W	
Type Well - Single - Ergdenhead - 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 <sub>a</sub> 12.0	
State New Mexico		L 6200		H 6200	G <sub>g</sub> 0.688	% CO <sub>2</sub> —	% N <sub>2</sub> —
				% H <sub>2</sub> 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. hw	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 <sub>m</sub>	Flow Temp. Factor Ft	Gravity Factor F <sub>g</sub>	Super Compress. Factor, F <sub>pv</sub>	Rate of Flow Q, Mcfd
1.	9.453	—	61	0.9822	1.206	1.014	693
2.							
3.							
4.							
5.							

NO.	P <sub>r</sub>	Temp. °R	T <sub>r</sub>	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	1202	539	1389	.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	XXXXXX
5.					Critical Pressure	669 P.S.I.A.
					Critical Temperature	388 R

NO.	F <sub>r</sub> <sup>2</sup>	P <sub>w</sub>	F <sub>w</sub> <sup>2</sup>	F <sub>c</sub> <sup>2</sup> - R <sub>w</sub> <sup>2</sup>	(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  $\left[ \frac{F_c^2}{F_c^2 - R_w^2} \right]^n = 1779.7$

Absolute Open Flow	1779.7	Mcf @ 15.025	Angle of Slope @	51°	Slope, n	.75
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Remarks: P<sub>c</sub> = 9 day shut-in casing pressure - dead weight. - P<sub>w</sub> - casing pressure at end of 3 hour flow test. - dead weight.

Approved By Commission:	Conducted By: David Chase	Computed By: David Chase	Checked By: J.C. Jordan
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COUNTY: Rio Arriba STATE: New Mexico

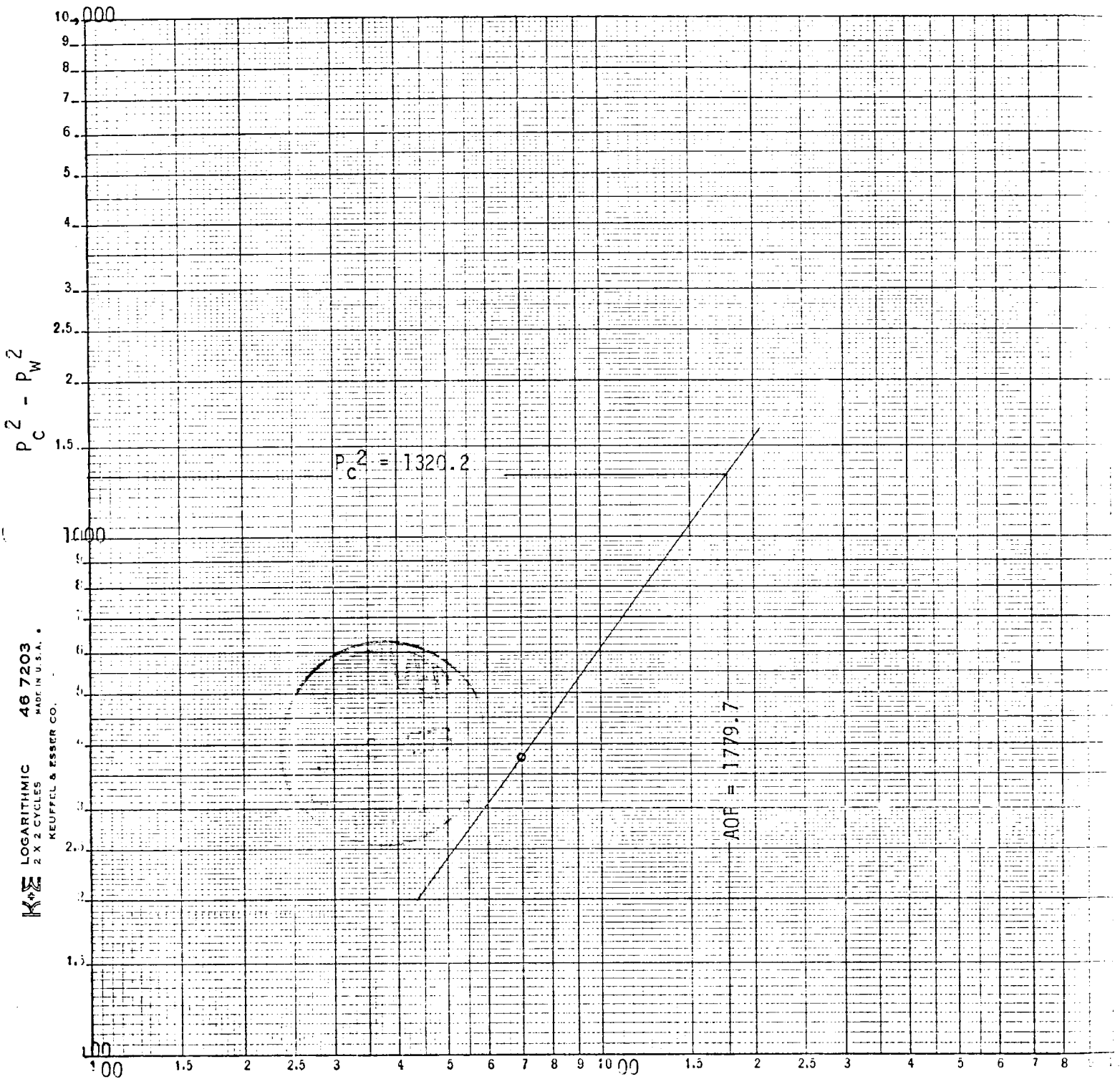
OPERATOR: Mobil Oil Corporation

GAS WELL  
BACK PRESSURE CURVE

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

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

DATE: January 6, 1976



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

Q - MCF/PD

$\theta = 51^\circ$

n = .75