

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 11-23-76	
Company Mobil Oil Corp.			Connection None		
Pool Blanco Mesa Verde			Formation Mesa Verde		
Completion Date 10-26-76		Total Depth 6300		Plug Back TD 6278	
				Elevation 7220 GR	
Farm or Lease Name Jicarilla "F"					
Csq. Size 4 1/2"	Wt. 10.30#	d 4.052	Set At 6300	Perforations: From 5686 To 6208	
Tbg. Size 2-3/8"	Wt. 4.7#	d 1.995	Set At 5634	Perforations: From - To -	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At	
Producing Thru Tbg.				Baro. Press. - P _a 12.2	
Reservoir Temp. °F @		Mean Annual Temp. °F 500F		State New Mexico	
L 5286	H 5286	G _g .668	% CO ₂ 0.70	% N ₂ 0.25	% H ₂ S -
		Prover 0.75	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.		Temp. °F
SI				-	-	-	1183	50	1187	50	8 days
1.	2 x 0.75"			-	-	-	534	69	875	50	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, Mcfd
1	12.365	-	356.2	0.9915	.9477	1.038	4296
2.							
3.							
4.							
5.							

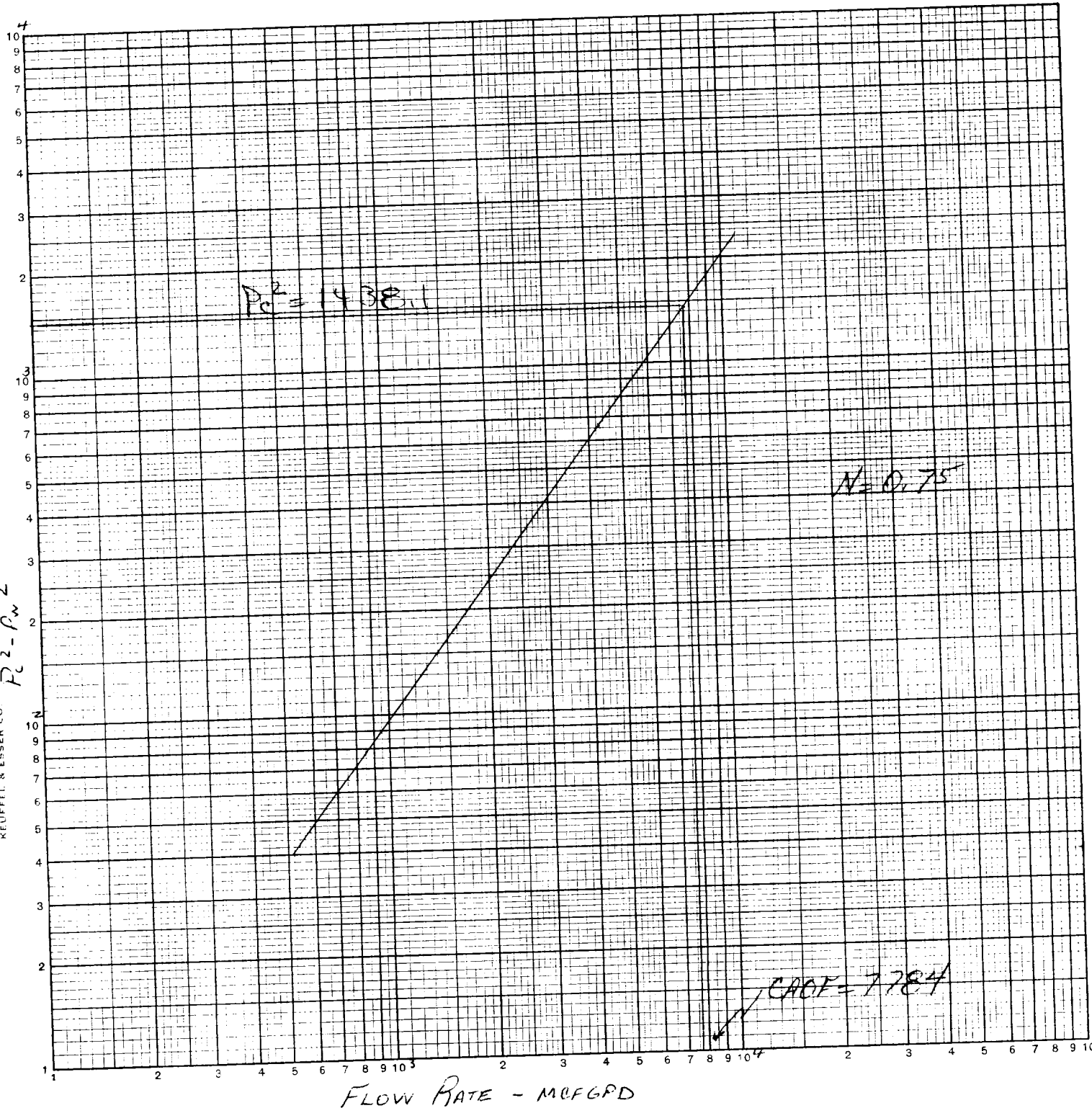
NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.	.532	529	1.38	.929	A.P.I. Gravity of Liquid Hydrocarbons 640 @ 60°F
2.					Specific Gravity Separator Gas _____
3.					Specific Gravity Flowing Fluid _____
4.					Critical Pressure 669 P.S.I.A.
5.					Critical Temperature 382 °R

P _c 1199.2	P _c ² 1438.1	(1) $\frac{P_c^2}{P_c^2 - R_w^2} = 2.21$	(2) $\left[\frac{P_c^2}{P_c^2 - R_w^2} \right]^n = 1.81$
NO.	P _t ²	P _w	R _w ²
1		887.2	787.1
2			
3			
4			
5			

Absolute Open Flow 7784 Mcfd @ 15.025		Angle of Slope 53.10	Slope, n 0.75
Remarks: Produced 7 bbls. condensate & 5 bbls. water in 3 hrs.			
Approved By Commission:	Conducted By: D. R. Oliver	Calculated By: W. L. Riley, Jr.	Checked By: M. W. Brinkmeyer

JICARILLA "F" G-A
 BLANCO MESA VERDE
 RIO ARRIBA COUNTY
 NEW MEXICO

46 7403
 LOGARITHMIC
 3 X 3 CYCLES
 KEUFFEL & ESSER CO
 $P_c^2 - P_w^2$





UNITED CHEMICAL CORPORATION

OF NEW MEXICO

P.O. BOX 479

PHONE (505) 393-7751

HOBBS, NEW MEXICO 88240

No. 5547

Run No.

Date of Run 11-27-76

Date Secured 11-23-76

CERTIFICATE OF ANALYSIS

A Sample of Jicarilla "F" 6-A
Secured from Mobil Oil Corp.
At Box 1800
Hobbs, New Mexico 88240
Sampling conditions Press 1187 psig

Secured by D. L. Oliver
Time Date

FRACTIONAL ANALYSIS

Percentage Composition

MOL % LIQ. % G.P.M.

Carbon Dioxide	<u>.703</u>	
Air		
Nitrogen	<u>.253</u>	
Oxygen		
Hydrogen sulfide		
Hydrogen		
Methane	<u>84.470</u>	
Ethane	<u>9.268</u>	<u>2.472</u>
Propane	<u>3.115</u>	<u>.858</u>
Butanes		
Isobutane	<u>.606</u>	<u>.198</u>
N-Butane	<u>.496</u>	<u>.156</u>
Pentanes		
Isopentane	<u>.540</u>	<u>.197</u>
N-Pentane	<u>.393</u>	<u>.142</u>
Hexanes	<u>.103</u>	<u>.042</u>
Heptanes	<u>.053</u>	<u>.023</u>
TOTAL	<u>100.000</u>	<u>4.088</u>

Calc. Sp. Gr. 0.6682

Calc. A.P.I.

Calc. Vapor Press. PSIA

Sp. Gr.

Mol. Wt. 19.34

LIQUID CONTENT (GAL./MCF)

Propane Calc. G.P.M.	<u>.858</u>
Butanes Calc. G.P.M.	<u>.354</u>
Pentanes Plus G.P.M.	<u>.404</u>
Ethane Calc. G.P.M.	<u>2.472</u>
RYF Gasoline G.P.M.	<u> </u>

B.T.U./Cu. Ft. @ 14.696 P.S.I.A.

Dry Basis

1184

Wet Basis

1163

Sulfur Analysis by Titration

Gr. 100 Cu. Ft.

Hydrogen Sulfide

Meraptans

Sulfides

Residual Sulfur

Total Sulfur

Run by Deane Simpson

Checked by

Approved by

Additional Data and Remarks

