

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 11-16-76				
Company Mobil Oil Corporation				Connection None					
Pool Blanco Mesa Verde				Formation Mesa Verde				Unit	
Completion Date 10-19-76		Total Depth 6250		Plug Back TD 6215		Elevation		Farm or Lease Name Jicarilla "H"	
Csg. Size 4-1/2	Wt. 10.3	d 4.052	Set At 6250	Perforations: From 5503 To 6018			Well No. 7-A		
Tbg. Size 2-3/8	Wt. 4.7	d 1.995	Set At 5475	Perforations: From - To -			Unit Sec. Twp. Rge. D 1 26N 3W		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single					Packer Set At -		County Rio Arriba		
Producing Thru Tbg		Reservoir Temp. °F 154° @ 6000'		Mean Annual Temp. °F 500		Baro. Press. - P _g 12.2		State New Mexico	
L 5503	H 5503	G _g 0.672	% CO ₂ 0.357	% N ₂ 0.256	% H ₂ S -	Prover 0.75"	Meter Run 2.0"	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	-	-	-	-	-	-	805	50	805	50	201 Hrs.
1.	2.0"	x	0.75"	-	-	-	241	62	583	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 Ft	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	12.365	-	226.2	0.9981	0.9477	1.024	2709
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ 82 _____ Mcf/bbl.
1	0.3376	522	1.370	0.953	A.P.I. Gravity of Liquid Hydrocarbons 57.3 @ 60°F _____ Deg.
2.					Specific Gravity Separator Gas 0.672 _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure 670 _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature 381 _____ R _____ R

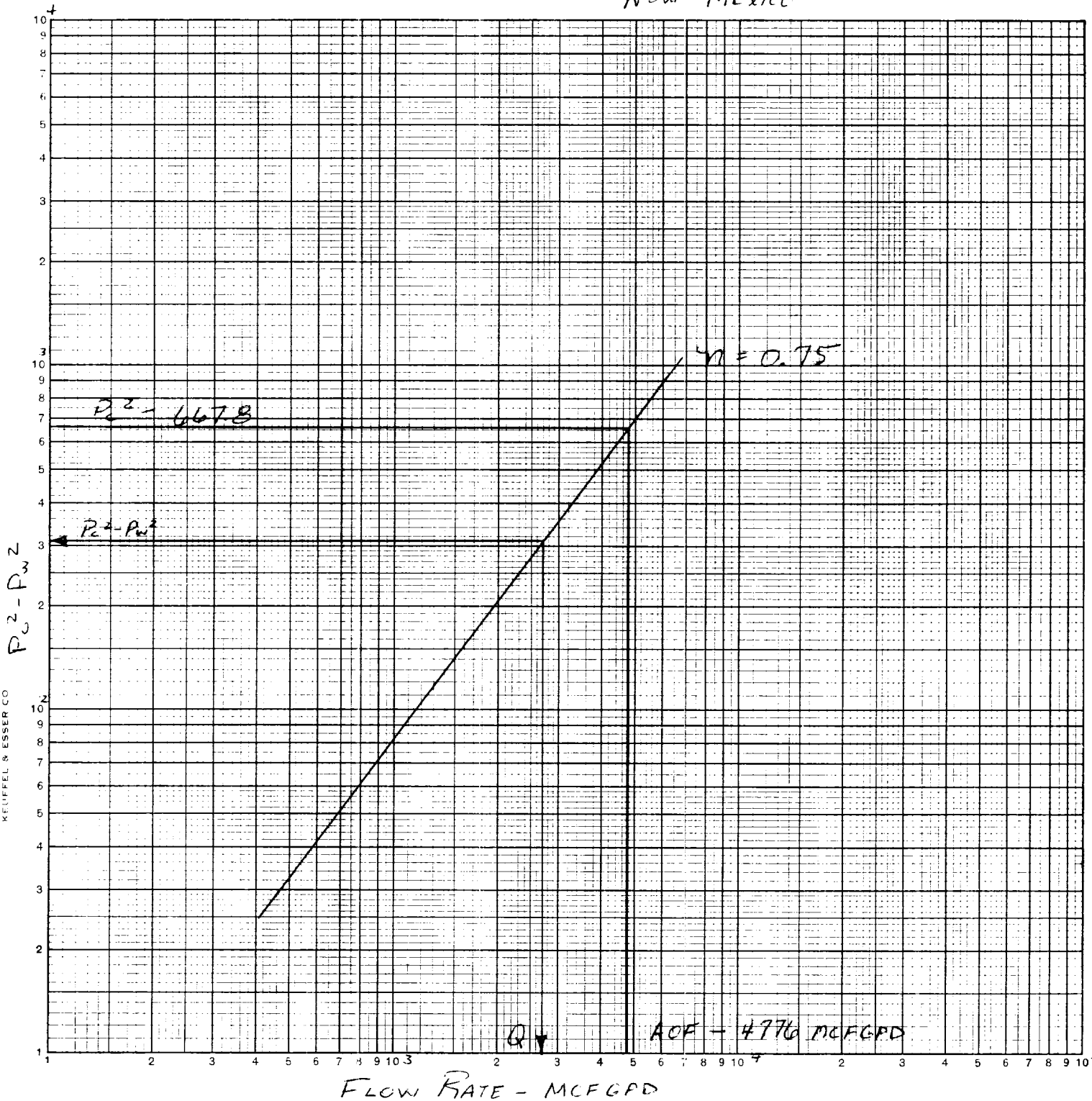
P _c 817.2 P _c ² 667.8					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.130$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.763$	
NO	P _t ²	P _w	P _w ²	P _c ² - P _w ²				
1		595.2	354.3	313.5				
2								
3								
4								
5								

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4776$				
Absolute Open Flow 4776 _____ Mcfd @ 15.025				Angle of Slope θ 53.1 _____
Slope, n 0.75				
Remarks: Produced 4.1 BO & Trace of H₂O in 3 hrs.				

Approved By Commission:	Conducted By: C. L. Pyle	Calculated By: M. W. Brinkmeyer	Checked By: C. L. Pyle
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JICARILLA "H" 7-A
 BLANCO MESA VERDE
 RIO ARriba COUNTY
 NEW MEXICO

KE LOGARITHMIC 46 7403
 1 X 3 CYCLES
 KEUFFEL & ESSER CO.



mwB
 11/29/76



OF NEW MEXICO

P. O. BOX 1499

PHONE (505) 393-7751

HOBBS, NEW MEXICO 88240

No. 5539

Run No.

Date of Run 11-20-76

Date Secured 11-16-76

CERTIFICATE OF ANALYSIS

A Sample of Jicarillo "H" 7-A
Secured from Mobil Oil Corporation
At P. O. Box 1800
Hobbs, New Mexico 88240 Secured by _____
Time _____ Date _____
Sampling conditions _____ Press _____
Temp. _____

GOR 82 MCF/BBL.

FRACTIONAL ANALYSIS

Percentage Composition

MOL % LIQ. % G.P.M.

Carbon Dioxide	.357		
Air			
Nitrogen	.256		
Oxygen			
Hydrogen sulfide			
Nitrogen			
Methane	83.137		
Ethane	11.165	2.978	
Propane	3.592	.989	
Butanes			
Isobutane	.556	.181	
N-Butane	.513	.161	
Pentanes			
Isopentane	.205	.075	
N-Pentane	.134	.048	
Hexanes	.056	.023	
Heptanes	.029	.012	
TOTAL	100.000	4.467	

Calc. Sp. Gr. 0.6716

Calc. A.P.I. _____

Calc. Vapor Press. _____ PSIA

Sp. Gr. _____

Mol. Wt. 19.46

LIQUID CONTENT (GAL./MCF)

Propane Calc. G.P.M.	.989
Butanes Calc. G.P.M.	.342
Pentanes Plus. G.P.M.	.158
Ethane Calc. G.P.M.	2.978
RVP Gasoline G.P.M.	
B.T.U./Cu. Ft. @ 14.696 P.S.I.A.	
Dry Basis	1180
Wet Basis	1159
Sulfur Analysis by Titration	
Gr./100 Cu. Ft.	
Hydrogen Sulfide	
Mercaptans	
Sulfides	
Residual Sulfur	
Total Sulfur	

Run by Deane Simpson Checked by _____ Approved by Deane Simpson

Additional Data and Remarks

