

**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 10-4-76		Total Depth 6050		Plug Back TD 6008		Elevation		Farm or Lease Name Jicarilla "H"	
Csg. Size 4-1/2	Wt. 10.3	d 4.052	Set At 6050	Perforations: From 5476 To 5886			Well No. 1-A		
Tbg. Size 2-3/8"	Wt. 4.7	d 1.995	Set At 5355	Perforations: From - To -			Unit Sec. Twp. Rge. P 11 26N 3W		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single					Packer Set At		County Rio Arriba		
Producing Thru Tg Tbg.		Reservoir Temp. °F 154° @ 6000		Mean Annual Temp. °F 50		Baro. Press. - P _a 12.2		State New Mexico	
L 5476	H 5476	G _g 0.683	% CO ₂ 0.335	% N ₂ 0.308	% 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	-	-	-	-	-	-	989	50	989	50°	205 Hrs
1.	2.0"	x	0.75"	-	-	-	385	57	611	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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365	-	254.2	1.003	0.9373	1.029	3041
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 127 Mcf/bbl.	
1.	0.3794	517°	1.346	0.944	A.P.I. Gravity of Liquid Hydrocarbons 65.8° @ 60°F Deg.	
2.					Specific Gravity Separator Gas 0.683 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 384 R R	

P _c 1001.2	P _c ² 1002.4		
NO.	P _t ²	P _w	P _w ²
1		623.2	388.4
2			
3			
4			
5			

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.633$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4391$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.444$$

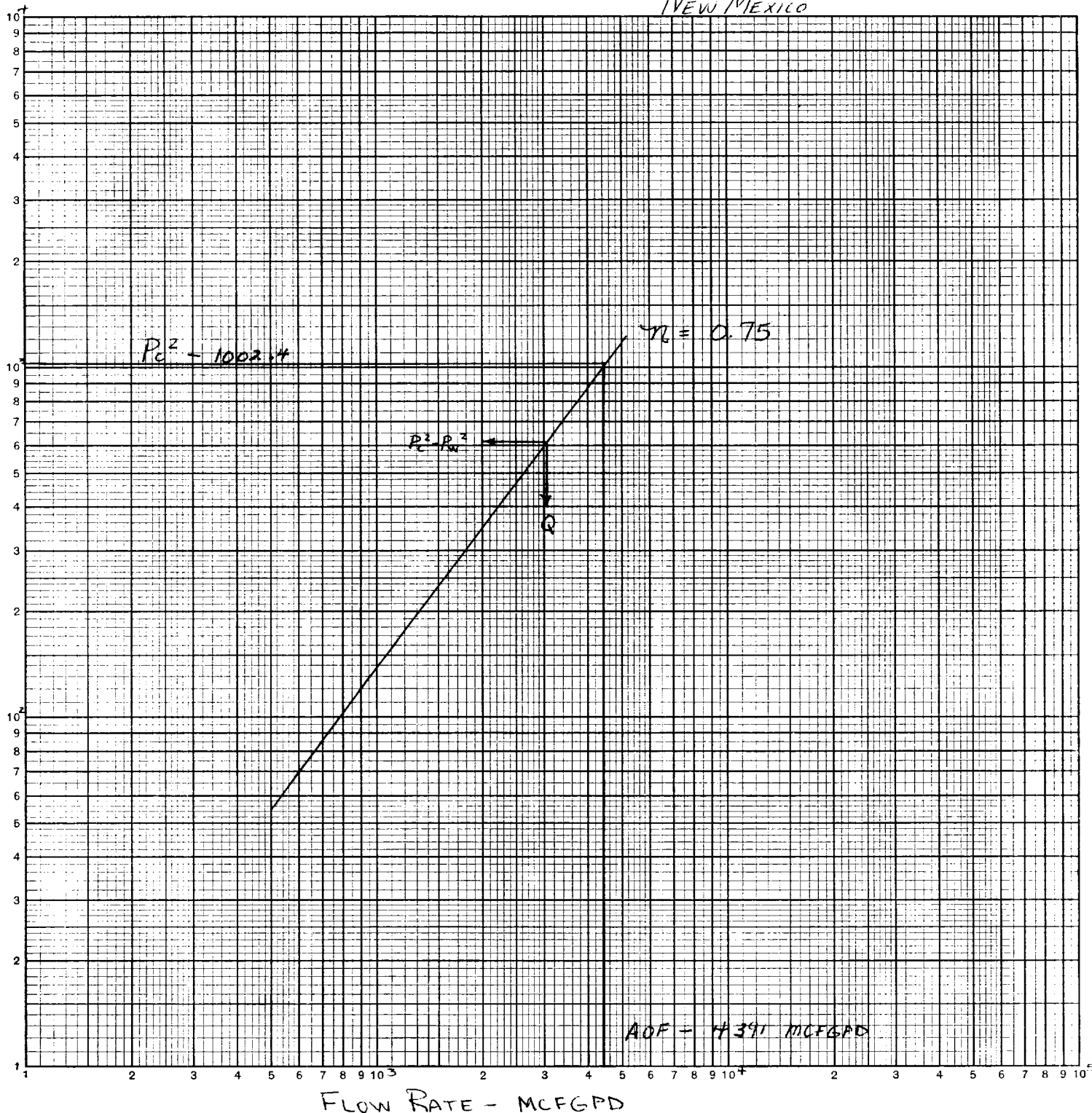
Absolute Open Flow 4391 Mcfd @ 15.025	Angle of Slope 53.1	Slope, 0.75
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Remarks: **Produced 3 B0 + Trace of H2O in 3 hrs.**

Approved By Commission:	Conducted By: M. W. Brinkmeyer	Calculated By: M. W. Brinkmeyer	Checked By: C. L. Pyle
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JICARILLA "H" 1-A
 BLANCO MESA VERDE
 RIO ARriba COUNTY
 NEW MEXICO

LOGARITHMIC 46 7403
 MADE IN U.S.A.
 KRUEFFEL & ESSER CO. $P_c^2 - P_w^2$



mu B
 11/29/74



OF NEW MEXICO

P. O. BOX 1499

PHONE (505) 393-7751

HOBBS, NEW MEXICO 88240

No. 5540
Run No. _____
Date of Run 11-20-76
Date Secured 11-16-76

CERTIFICATE OF ANALYSIS

A Sample of Jicarillo "H" 1-A
Secured from Mobil Oil Corporation
At P. O. Box 1800 Secured by C. L. Pyle
Hobbs, New Mexico 88240 Time _____ Date _____
Sampling conditions _____ Press _____
Temp. _____
GOR 127 MCF/BBL.

FRACTIONAL ANALYSIS

Percentage Composition

	MOL %	LIQ. %	G.P.M.
Carbon Dioxide	.335		
Air			
Nitrogen	.308		
Oxygen			
Hydrogen sulfide			
Hydrogen			
Methane	81.725		
Ethane	11.606		3.095
Propane	4.249		1.170
Butanes			
Iso-Butane	.526		.172
N-Butane	.630		.198
Pentanes			
Iso-Pentane	.275		.100
N-Pentane	.196		.071
Hexanes Plus	.150		.021
Heptanes			
TOTAL	100.000		4.827

Calc. Sp. Gr.— 0.6831
Calc. A.P.I.— _____
Calc. Vapor Press.— _____ PSIA
Sp. Gr. _____
Mol. Wt. 19.79

LIQUID CONTENT (GAL./MCF)

Propane Calc. G.P.M. 1.170
Butanes Calc. G.P.M. .370
Pentanes Plus. G.P.M. .192
Ethane Calc. G.P.M. 3.095
RVP Gasoline G.P.M. _____

B.T.U./Cu. Ft. @ 14.696 P.S.I.A.
Dry Basis 1198
Wet Basis 1177

Sulfur Analysis by Titration
Gr./100 Cu. Ft. _____
Hydrogen Sulfide _____
Mercaptans _____
Sulfides _____
Residual Sulfur _____
Total Sulfur _____

Run by Deane Simpson Checked by _____ Approved by [Signature]

Additional Data and Remarks

