NEW MEXICO OIL CONSERVATION COMMSSION

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: 10-13-76	Total Depth: 6000		Plug Back TD: 5940	Elevation: 7056' GR	Farm or Lease Name: Jicarilla "H"
Csg. Size: 4-1/2 / Wt.: 10.5 / d: 4.052 / Set At: 6000			Perforations: From 5390 To 5840		Well No.: 5-A
Tbg. Size: 2-3/8 / Wt.: 4.7 / d: 1.995 / Set At: 5352			Perforations: From - To -		Unit: D / Sec.: 11 / Twp.: 26N / Rge.: 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: 50°	Baro. Press. – P_a: 12.2	State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
5390	5390	0.690	0.305	0.310	-	0.75"	2.0"	-

	FLOW DATA					TUBING DATA		CASING DATA		
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	Duration of Flow
SI	-	-	-	-	-	1157	50	1159	50	203 hrs
1.	2.0"	x 0.75"	-	-	-	399	66	668	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	-	281.2	0.9943	0.9325	1.031	3324
2.							
3.							
4.							
5.							

NO.	P_t	Temp. °R	T_r	Z
1	0.4197	526°	1.359	0.940
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio 89 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 51.1 @ 60°F Deg.
Specific Gravity Separator Gas 0.690 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 670 P.S.I.A. ____ P.S.I.A.
Critical Temperature 387 R ____ R

P_c 1171.2 P_c^2 1371.7

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		680.2	462.7	909.0
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.509$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.361$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 4524$

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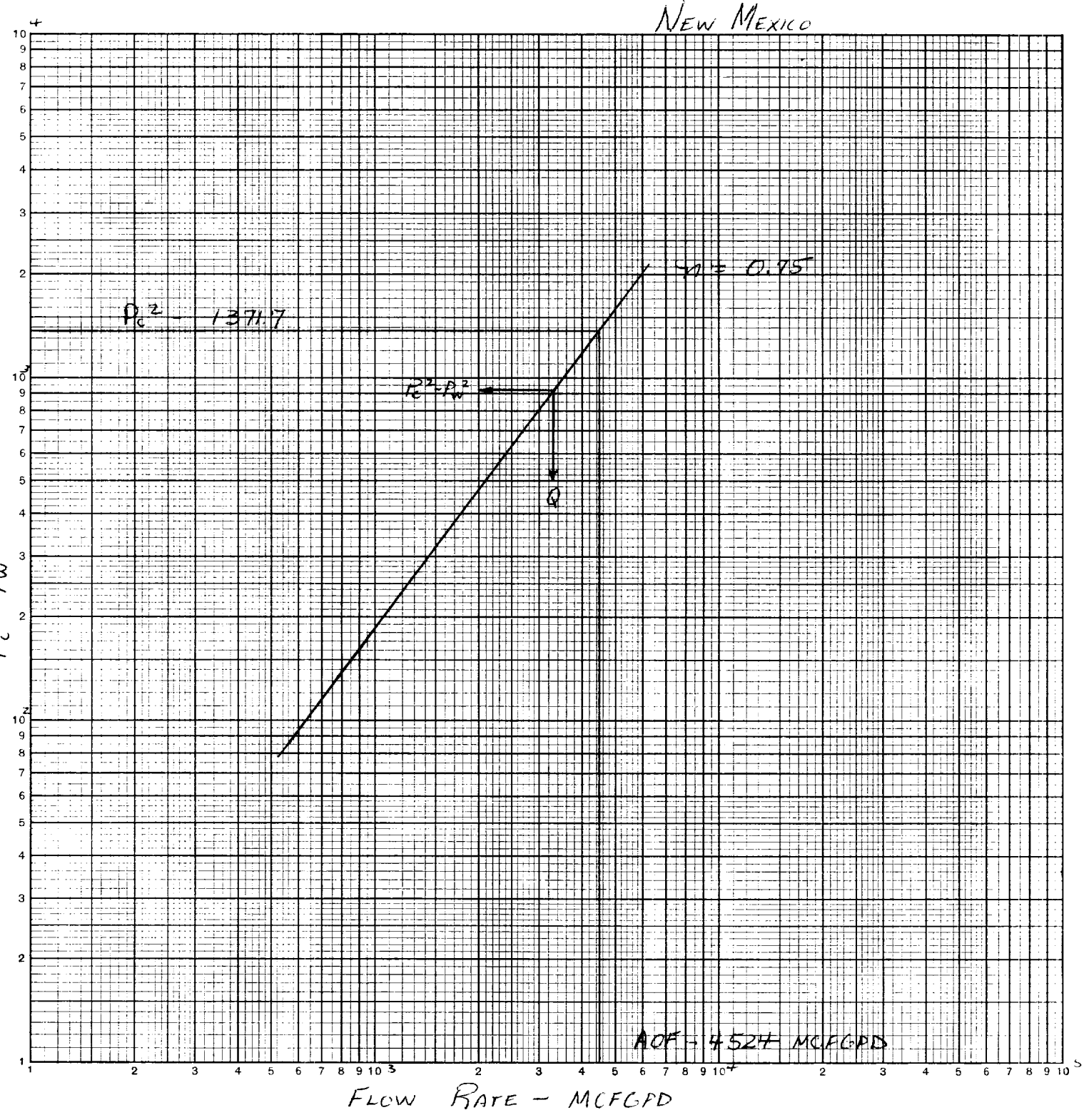
DIST. 3

Absolute Open Flow 4524 Mcfd @ 15.025 Angle of Slope θ 53.1 Slope, n 0.75

Remarks: 4.7 BO + Trace H_2O in 3 hours

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	C. L. Pyle	M. W. Brinkmeyer	C. L. Pyle

Jicarilla "H" 5-A
Blanco Mesa Verde
Rio Arriba County
New Mexico



LOGARITHMIC 46 7403
3 X 3 CYCLES
KEUFFEL & ESSER CO

11/29/76

OF NEW MEXICO

P. O. BOX 1499 PHONE (505) 393-7751

HOBBS, NEW MEXICO 88240

No. 5538
Run No.
Date of Run 11-20-76
Date Secured 11-16-76

CERTIFICATE OF ANALYSIS

A Sample of Jicarilla "H" 5-A Gas
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 89 MCF/BBL.

FRACTIONAL ANALYSIS

Percentage Composition

	MOL %	LIQ. %	G.P.M.
Carbon Dioxide	.305		
Air			
Nitrogen	.310		
Oxygen			
Hydrogen sulfide			
Hydrogen			
Methane	81.064		
Ethane	11.940		3.184
Propane	4.497		1.238
Isobutane			
Butane	.670		.219
Isopentane	.714		.224
Pentanes			
Hexanes	.260		.095
Heptanes	.186		.067
Octanes Plus	.054		.022
Nonanes			
Total	100.000		5.049

Calc. Sp. Gr.— 0.6895
Calc. A.P.I.—
Calc. Vapor Press.— PSIA
Sp. Gr.
Mol. Wt. 19.98

LIQUID CONTENT (GAL./MCF)

Propane Calc. G.P.M.	1.238
Butanes Calc. G.P.M.	.443
Pentanes Plus. G.P.M.	.184
Ethane Calc. G.P.M.	3.184
___# RVP Gasoline G.P.M.	

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

Dry Basis	1209
Wet Basis	1188

Sulfur Analysis by Titration Gr./100 Cu. Ft.

Hydrogen Sulfide	
Mercaptans	
Sulfides	
Residual Sulfur	
Total Sulfur	

Run by Deane Simpson Checked by Approved by

Additional Data and Remarks

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