

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 11/24/78	
Company Mobil Oil Corporation				Connection None			
Pool Blanco Mesa Verde				Formation mesa verde			
Completion Date October, 1977		Total Depth 6370'		Plug Back TD		Elevation	
Casing Size 4 1/2"		Set At 6370'		Perforations: From 5826' To 6266'		Well No. #2A	
Tub. Size 2 3/8"		Set At 6137'		Perforations: From To		Unit Sec. Twp. Rge. D 27 27N 3W	
Type Well - Single - Production - G.G. or G.O. Multiple Single				Packer Set At None		County Rio Arriba	
Producing Thru Tbg		Reservoir Temp. °F 154° @ 6000'		Mean Annual Temp. °F 50°		Baro. Press. - P _a 12.2 psi	
L 6046		H 6046		G _g .6815		% CO ₂ % N ₂ % H ₂ S .494 .257 -	
Prover .75"		Meter Run 2"		State New Mexico			

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	2"	X	.75"				814	45°	877	45°	SI 171 hrs
1.	"	"	"	120		65°	172	61°	657	61°	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 _L	Gravity Factor F _g	Super. Comp. Factor, F _{pv}	Rate of Flow Q, Mgd
1	12.365		132.2	.9952	.9383	1.014	1,548
2							
3							
4							
5							

NO.	P _r	Temp. °R	T _r	Z	Gas-Liquid Ratio	Method
1	.20	525	1.37	.972	65° API @ 60° F	Eq.
2					Specific Gravity of Gas .6903	XXXXXX
3					Specific Gravity Flowing Fluid XXXXX	
4					Critical Pressure 671 P.S.I.A.	P.S.I.A.
5					Critical Temperature 384 °R	°R

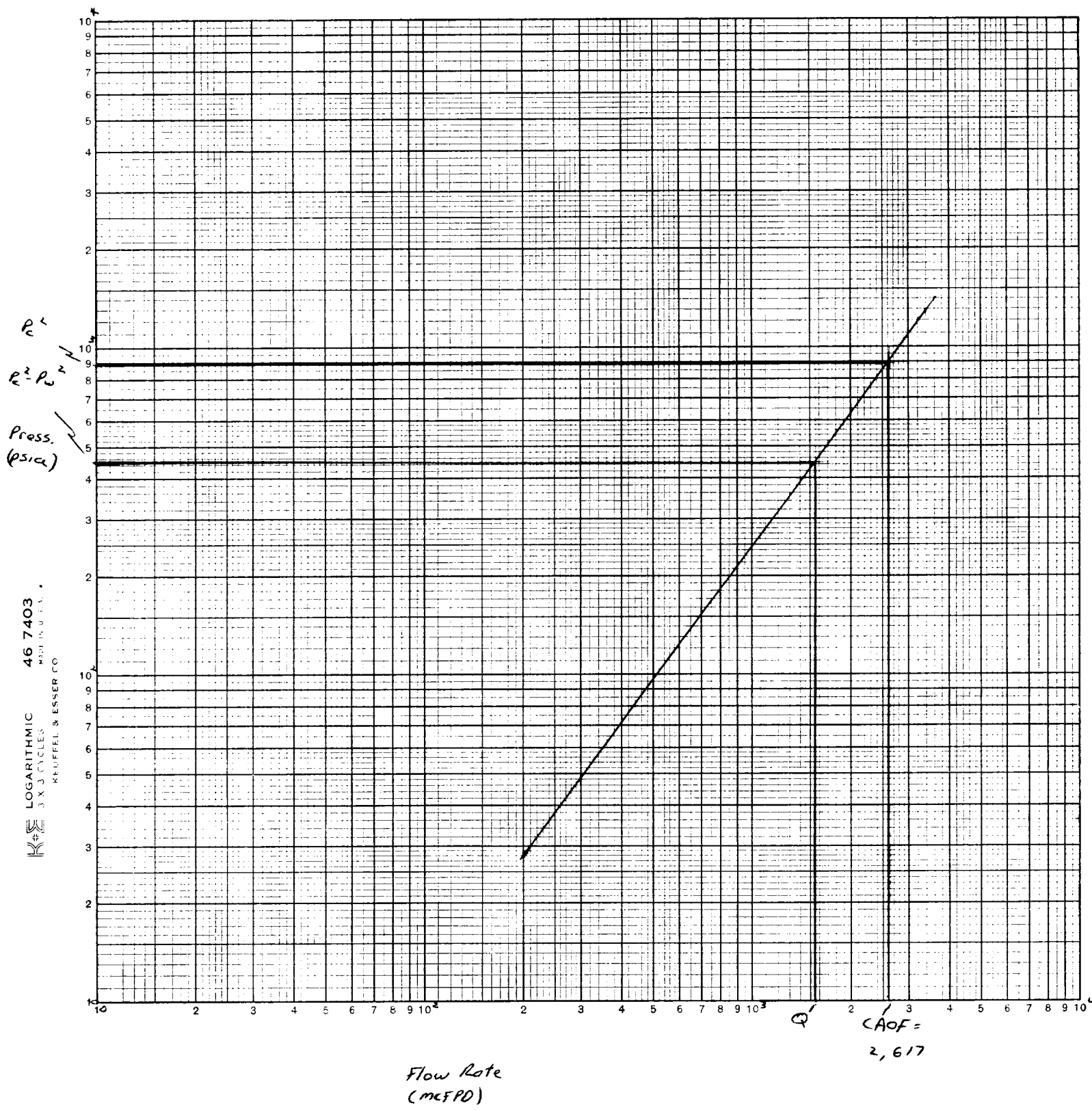
NO.	P _r	P _w	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} =$	(2) $\frac{P_r^2}{P_r^2 - P_w^2} =$
1		669.2	447.8	441.4	2.015	1.69
2						
3						
4						
5						

Absolute Open Flow		2,617	Method 15.025	Angle of Slope °	53.1	Slope, n	.75
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Remarks: F 1/2 bbl oil and 2 bbl wtr / 3 hrs

Approved by Conservation:	Conducted By:	Calculated By:	Checked By:
	R.D. George / R. Hitchcock	R.D. George	[Signature]

Mobil Oil Corporation
 Jicarilla "F" #2A
 Blanco Mesa Verde Field
 Rio Arriba County, New Mexico



LOGARITHMIC
 3 X 3 CYCLES
 KEUFFEL & ESSER CO.

46 7403

Flow Rate
 (mcfpd)

CAOF =
 2,617



UNITED CHEMICAL CORPORATION

OF NEW MEXICO

— 2 —

PHONE (505) 393-7751

HOBBBS — 88240

No. 7064

Run No. 1-27-78

Date of Run 1-27-78

Date Secured

CERTIFICATE OF ANALYSIS

A Sample of Jicarilla "F" # 2 A
Secured from Mobil Oil Corporation
At P. O. Box 1800
Hobbs, New Mexico 88240

Blanco Mesa Verde

Sampling conditions

Press

Temp

Secured by

Date

Date

Rio Arriba County, New Mexico

FRACTIONAL ANALYSIS

Percentage Composition

MOL % LIQ. % G.P.M.

Carbon Dioxide

.494

Air

Nitrogen

.257

Oxygen

Hydrogen sulfide

Hydrogen

Methane

84.189

Ethane

8.764

Propane

3.750

Butanes

Isobutane

N-butane

.650

.981

.212

.308

Pentanes

Isopentane

N-Pentane

Hexanes

Heptanes

Plus

.340

.255

.184

.136

.124

.092

.075

.058

TOTAL

100.000

4.239

0.6818

0.6818

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Run by

Debbie Moutray

Checked by

Approved by

Debbie Moutray

Additional Data and Remarks

1/31dh