

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 5-16-77	
Company Merriam & Bayless			Connection New Well		
Pool NIIP			Formation Pictured Cliffs		
Completion Date May 2, 1977		Total Depth 1300'		Plug Back TD 1268'	
		Elevation 5176'		Farm or Lease Name Chaco	
Crp. Size 2.875	Wt. 6.5 lb.	d 2.441	Set At 1294'	Perforations: From 1163' To 1189'	
Tbg. Size none	Wt.	d	Set At	Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Tubingless completion				Packer Set At none	
Producing Thru Casing		Reservoir Temp. °F @		Baro. Press. - P _a 12.0	
Mean Annual Temp. °F		State New Mexico		County San Juan	
L	H	G _g	% CO ₂	% N ₂	% H ₂ S
		.60			
Prover 2"		Meter Run		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									244		SIP
1.	2" x 3/32"			230		60°			230		2 hr.
2.	2" x 1/8"			219		60°			219		2 hr.
3.	2" x 3/16"			191		60°			191		2 hr.
4.	2" x 1/4"			153		60°			163		2 hr.
5.	2" x 1/4"			149		60°			162		12 hr.

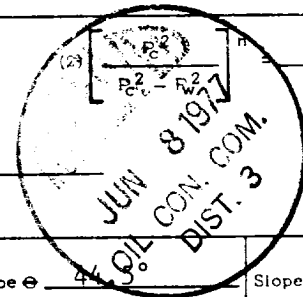
RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	0.1410		242	1.000	1.291	1.021	45
2	0.2648		231	1.000	1.291	1.021	81
3	0.6082		203	1.000	1.291	1.016	162
4	1.087		165	1.000	1.291	1.016	235
5	1.087		161	1.000	1.291	1.015	229

NO.	P _r	Temp. °R	T _r	Z	Gas L. quid Hydrocarbon Ratio _____ Mcf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2					Specific Gravity Separator Gas _____ X X X X X X X X
3					Specific Gravity Flowing Fluid _____ X X X X X
4					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5					Critical Temperature _____ R _____ R

P _c 256	P _c ² 65536		
NO.	P _r ²	P _w	P _w ²
1		242	58564
2		231	53361
3		203	41209
4		165	27225
5		161	25921

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

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



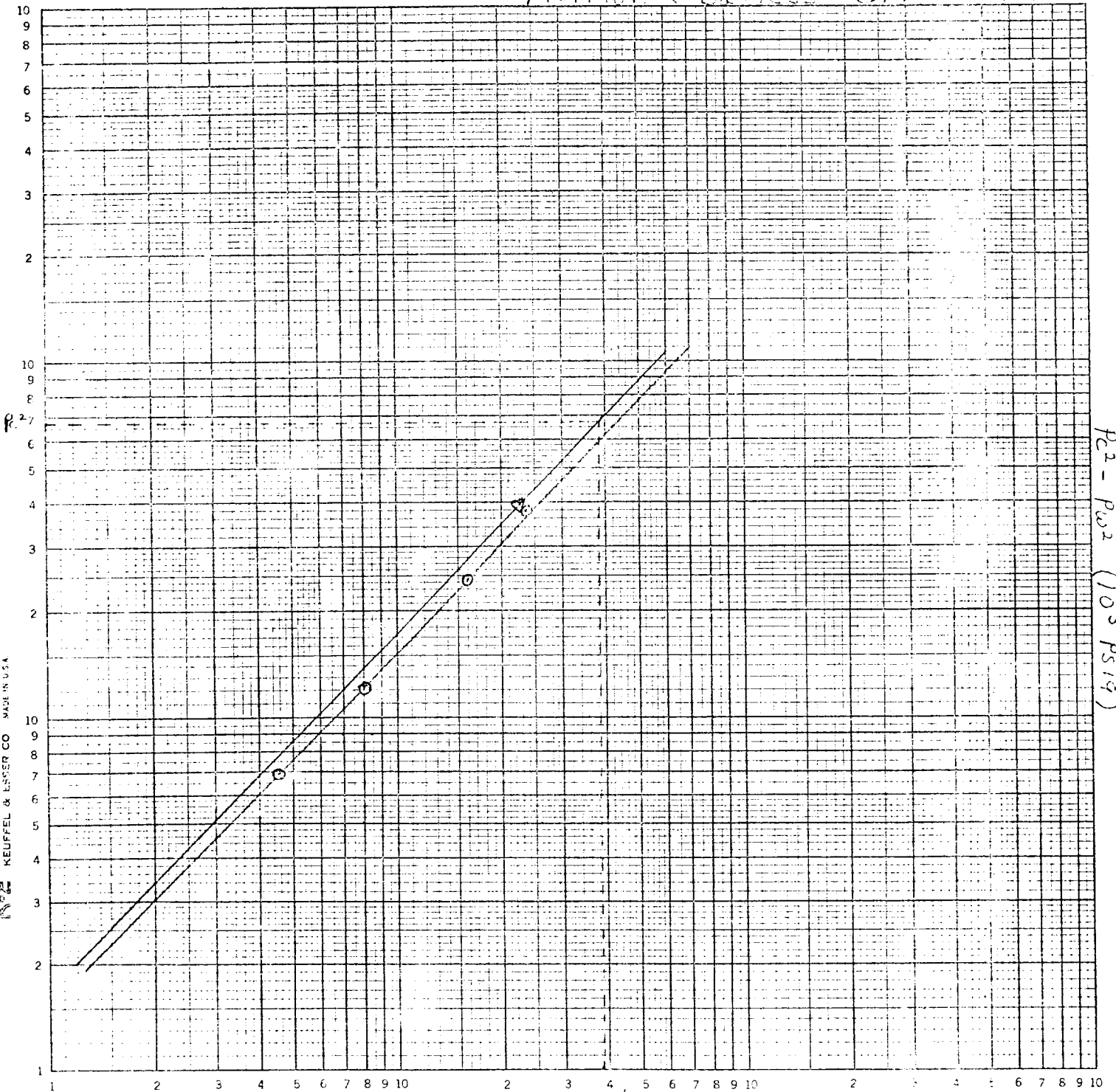
Absolute Open Flow 385 _____ Mcfd @ 15.025		Angle of Slope 4.3°		Slope, n .98	
Remarks: Well produced dry gas throughout test.					
Approved By Commission:		Conducted By: Fred S. Hamrick		Checked By: Steven S. Dunn	
		Calculated By: Fred S. Hamrick			

Steven S. Dunn, Engineer

Merriam & Bayless Chapter 4 Pc

46 7400

LOGARITHMIC 3 X 3 CYCLES
KEUFFEL & ESSER CO. MADE IN U.S.A.



○ 2 hr flow points
△ 12 hr extended flow

N = .98

AOF = 385 mcf/D