

COPY 122
Form C-122
Revised 9-1-65

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR RECEIVED

AUG 8 1974

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 7-27-74	
Company Champlin Petroleum Company		Connection El Paso Natural Gas Co.	
Pool Undesignated		Formation Wolfcamp	
Completion Date 7-23-74		Total Depth 11,971'	
Csg. Size 7"		Plug Back TD 11,823'	
Tbg. Size 2-7/8"		Elevation 3113' DF	
Form or Lease Name Nix-Yates		Well No. 1	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Dual Gas		Packer Set At 10,288, 11,300, 11,625'	
Producing Thru Tbg. - Csg. Annulus		Ratio. Press. - P _d 13.2	
Reservoir Temp. °F 165 @ 9728		Mean Annual Temp. °F 60 (E)	
State New Mexico		County Eddy	
L 9728		H 9728	
Gg 0.684		% CO ₂	
% N ₂		% H ₂ S	
Prover		Meter Run 4"	
Taps Flange			

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	
SI									
1.	4" x 1.125"			390	2	100			72+
2.	4" x 1.125"			450	6	100			1
3.	4" x 1.125"			570	10	100			1
4.	4" x 1.125"			590	17	100			1
5.									

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	6.031	28.40	403.2	0.9636	1.209	1.036	207
2	6.031	52.72	463.2	0.9636	1.209	1.041	385
3	6.031	76.37	583.2	0.9636	1.209	1.052	564
4	6.031	101.26	603.2	0.9636	1.209	1.055	751
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Dry Gas	Mcfd/bbl.
					A.P.I. Gravity of Liquid Hydrocarbons	Dry	Deq.
	1.				Specific Gravity Separator Gas	0.684	X X X X X X X X
	2.				Specific Gravity Flowing Fluid	X X X X X	0.684
	3.				Critical Pressure	669	P.S.I.A.
4.				Critical Temperature	386	R	
5.							

P _c 3430.2 P _w 11766.3				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.221$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.766$	
NO.	P _t ²	P _w ²	P _w ²	P _c ² - P _w ²			
1		3303.6	10913.8	852.5			
2		3108.6	9663.4	2102.9			
3		2830.5	8011.7	3754.6			
4		2543.4	6463.9	5297.4			
5							

Absolute Open Flow		1326	Mcfd @ 15.025	Angle of Slope @	Slope, n	0.713
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Remarks: 1 PW Calculated by time-share program using stepwise procedure.

Approved By Commission:	Conducted By: Joe Ragan	Calculated By: J. K. Adair	Checked By:
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