

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

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Form 0-122
Revised 9-1-65

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Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 7-26-74		AUG 8 1974	
Company Champlin Petroleum Company				Connection El Paso Natural Gas Co.		O. C. C. ARTESIA, OFFICE	
Pool Undesignated				Formation Morrow		Unit	
Completion Date 7-23-74		Total Depth 11,971'		Plum Back TD 11,823'		Elevation 3113' DF	
Csg. Size 7"				Perforations: From 11,490' To 11,756'		Well No. 1	
Tbg. Size 2-7/8"		Csg. ID 6.276		Perforations: From To		Unit Sec. Twp. Rge. G 2 22-S 27-E	
Type Well - Single - Brodenhead - G.G. or G.O. Multiple Dual Gas				Packer Set At 10,288, 11,300, 11,625		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 187 @ 11626		Mean Annual Temp. °F 60 (E)		State New Mexico	
L 11626		H 11626		Gg 0.596		% CO ₂ % N ₂ % H ₂ S Prover Meter Run Taps 4" 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	Press. p.s.i.g.	Temp. °F	
1.	4" x 1.5			210	6	98	3347	60			24
2.	4" x 1.5			215	22	80	3120	75			1
3.	4" x 1.5			230	42	80	2836	75			1
4.	4" x 1.5			400	40	80	2235	75			1
5.							1227	75			1

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.	10.84	36.60	223.2	0.9653	1.295	1.015	503
2.	10.84	70.86	228.2	0.9813	1.295	1.017	993
3.	10.84	101.07	243.2	0.9813	1.295	1.019	1419
4.	10.84	128.56	413.2	0.9813	1.295	1.032	1828
5.							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio 118.5 Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons 55 Deg.
2.					Specific Gravity Separator Gas 0.596 XXXXXXXXX
3.					Specific Gravity Flowing Fluid XXXXX 0.621
4.					Critical Pressure 671 P.S.I.A. 671 P.S.I.A.
5.					Critical Temperature 357 R 365 R

P _c 3360.2 P _c ² 11290.9				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1.		3134.0	9822.0	1468.9
2.		2851.5	8129.3	3161.6
3.		2253.4	5077.8	6213.1
4.		1255.9	1577.3	9713.6
5.				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{1.162}{}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{1.084}{}$

ACF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{1982}{}$

Absolute Open Flow 1982 Mcfd @ 15.025	Angle of Slope @ 0.535
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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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