

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

Form C-122
Revised 9-1-65

RECEIVED

JUN 17 1976

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 5-3-76		JUN 17 1976	
Company Champlin Petroleum Company				Connection El Paso Natural Gas Company				O. C. C. ARTERIA, OFFICE
Pool East Carlsbad (Wolfcamp)				Formation Wolfcamp				
Completion Date 5-3-76 2-25-76		Total Depth 12,000		Plug Back TD 9,750		Elevation 3114 GR		Form or Lease Name Reeves-Federal
Csg. Size 7"	Wt. 23 & 26	d 6.276	Set At 12,000	Perforations: From 9599 To 9725		Well No. 1		
Tbg. Size 2-7/8"	Wt. 6.5	d 2.441	Set At 9,580	Perforations: From To 		Unit B Sec. 35 Twp. 21-S Rge. 27-E		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single					Packer Set At 9570'		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 160 @ 9662'		Mean Annual Temp. °F 60° (E)		Baro. Press. - P _a 13.2		State New Mexico
L 9570	H 9570	Gg 0.683	% CO ₂	% N ₂	% H ₂ S	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							1945				28.5
1.	2"		0.250	96.8		94	1842	94			1
2.	2"		0.250	176.8		100	1721	100			1
3.	2"		0.250	261.8		95	1545	95			1
4.	2"		0.250	346.8		92	1308	92			1
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	1.403		110	0.9688	0.9373	1.000	140
2	1.403		190	0.9636	0.9373	1.000	241
3	1.403		275	0.9680	0.9373	1.000	350
4	1.403		360	0.9706	0.9373	1.000	459
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio Dry Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons - Deg.
2.					Specific Gravity Separator Gas 0.683 X X X X X X X X
3.					Specific Gravity Flowing Fluid X X X X X
4.					Critical Pressure 669 P.S.I.A. P.S.I.A.
5.					Critical Temperature 386 R R

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.749$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.612$
1		2430.4	5906.8	959.6		
2		2261.9	5116.2	1750.2		
3		2030.9	4124.6	2741.8		
4		1714.6	2939.9	3926.5		
5						

Absolute Open Flow 740 Mcfd @ 15.025				Angle of Slope 49.5	Slope, n 0.854
Remarks: Pw calculated by time-share program stepwise procedure.					
Approved By Commission:		Conducted By: Joe Ragan		Calculated By: J. K. Adair, Jr.	
				Checked By: Bill E. Bledsoe	