

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: 11/14/83		RECEIVED BY NOV 21 1983 O. C. D. Unit: ARTESIA OFFICE	
Company: Champlin Petroleum				Connection: El Paso Natural Gas					
Pool: East Carlsbad				Formation: Wolfcamp					
Completion Date: 11-11-83		Total Tests: 11,800'		Plug Back TD: 11,346'		Elevation: 3131 KB		Farm or Lease Name: E. J. Garner	
Csg. Size: 5-1/2"	Wt.: 17	d: 4.892	Set At: 11,800	Perforations: From 9711' To 9775'		Well No.: 1			
Tbg. Size: 2-7/8"	Wt.: 6.4	d: 2.441	Set At: 9,600	Perforations: From To		Unit: P Sec. 26 Twp. 21 Rge. 27			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single						Packer Set At: 9600'		County: Eddy	
Producing Thru: Tbg.		Reservoir Temp. °F: 173 @ 9743		Mean Annual Temp. °F: 60 (E)		Baro. Press. - P _a : 13.2		State: New Mexico	
L: 9743	H: 9743	G _g : .692	% CO ₂ : .17	% N ₂ : 1.21	% H ₂ S: 0	Prover		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						75	3473	75	Pkr.	-	98
1.	2" x .75"					75	2610	75	Pkr.	-	1
2.	2" x .75"					82	2170	82	Pkr.	-	1
3.	2" x .75"					76	1780	76	Pkr.	-	1
4.	2" x .75"					78	1185	78	Pkr.	-	1
5.											

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				.9859	1.202		173
2				.9795	1.202		244
3				.9850	1.202		335
4				.9831	1.202		479
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: .692	XXXXXX
3.					Specific Gravity Flowing Fluid: XXXXX	-
4.					Critical Pressure: 667 P.S.I.A.	- P.S.I.A.
5.					Critical Temperature: 383 R	- R

P _c : 5211	P _c ² : 27155	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.393$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.393$
NO.	P _t ²	P _w	P _w ²
1		4387	19246
2		3890	15132
3		3395	11526
4		2769	7667
5			

ADP = Q	$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 667$
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Absolute Open Flow: 667 Mcfd @ 15.025	Angle of Slope θ: 45	Slope, n: 1.0
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Remarks: Bottom hole pressure measured with Amerada bomb. Test conducted with 2" orifice well tester and vented to atmosphere.	
Approved By Commission:	Conducted By: Joe Ragan
Calculated By: B. D. Davis	Checked By: B. D. Davis