

**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: 11-30-77	
Company: Continental Oil Company				Connection: El Paso Natural Gas Company			
Pool: Warren Tubb				Formation: Tubb		Unit: I	
Completion Date:		Total Depth: 7090		Plug Back TD: 7043		Elevation:	
Csg. Size: 7		Set At: 7090		Perforations: From 6578 To 6674		Well No.: 42	
Tubg. Size: 2 3/8		Set At: 6544		Perforations: From open To end		Unit: I Sec. 27 Twp. 20 Rge. 38	
Type Well - Single - Provenhead - G.O. or G.O. Multiple: G. O. Dual						Packer Set At: 6544	
Producing Thru: Tbg.		Reservoir Temp. °F: 140 @ 6626		Mean Annual Temp. °F: 60		Baro. Press. - P _a : 13.2	
L: 6626		H: 6626		G _g : .679		County: Lea	
%		%		%		State: New Mexico	
%		%		%		Prover: 4	
%		%		%		Meter Run: 4	
%		%		%		Type: Flg.	

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							1769				24 hrs.
1.	4	x	1.500	92	4.8	98	1697				1 hr.
2.	4	x	1.500	94	17.6	86	1599				1 hr.
3.	4	x	1.500	99	33.6	74	1494				1 hr.
4.	4	x	1.500	102	51.8	68	1364				1 hr.
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, Mscf
1	10.84	22.47	105.2	.9653	1.223	Nil	288
2	10.84	43.44	107.2	.9759	1.223	Nil	562
3	10.84	61.40	112.2	.9868	1.223	Nil	803
4	10.84	77.25	115.2	.9924	1.223	Nil	1016
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.L. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	.16	558	1.45	Nil			.679		669	385
2	.16	546	1.42	Nil						
3	.17	534	1.39	Nil						
4	.17	528	1.37	Nil						
5										

NO.	P _c ²	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1	1782.2	3176.2		3.564	2.904
2					
3					
4					
5					

NO.	P _c ²	P _w ²	P _c ² - P _w ²	ACT = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1	1719.7	2926.5	246.1	2.332
2	1614.2	2605.6	570.6	
3	1511.6	2284.9	891.3	
4	1385.0	1918.3	1257.9	
5				

Absolute Open Flow: 2,332 Mscf @ 14.625	Angle of Slope θ: 50°	Slope, n: 839
Remarks:		
Approved by: Reston & McMurray		
Conducted By: Bob McMurray		
Calculated By: Bob McMurray		
Checked By:		

RECEIVED

SEP 7 1977

OIL CONSERVATION COMM.
HOBBS, N. M.