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

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☐ Initial ☐ Annual ☒ Special				Test Date 9-21-1972		OCT 4 - 1972	
Company Pennzoil Company				Connection Transwestern Pipeline Company		O. C. C.	
Pool South Carlsbad				Formation Morrow		Unit ARTESIA, OFFICE	
Completion Date 6-13-1970		Total Depth 12,068'		Plug Back TD 12,028'		Elevation 3235 Gr.	
Csg. Size 5 1/2"		Wt. 20		Set At 6704		Perforations: From 11,647' To 11,866'	
Tub. Size 2 1/2" CS Hydr		Wt. 3.25 1.750		Set At 11,550		Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 11,420'		Unit K	
Producing Thru Tubing		Reservoir Temp. °F 196 @ 11,665'		Mean Annual Temp. °F 60		Baro. Press. - P _g 13.2	
L 11,665'		H 11,665'		G _g .561		% CO ₂ 1.07	
				% N ₂ .32		% H ₂ S 0	
				Prover		Meter Run X	
						Taps	
FLOW DATA							
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Duration of Flow
1.	4.0		1.00	540	1	68	24 hrs.
2.	4.0		1.00	550	9	82	2 hrs.
3.	4.0		1.00	550	18	83	2 hrs.
4.	4.0		1.00	550	26	80	2 hrs.
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.	4.753	23.52	553.2	.9924	1.335	1.039	154
2.	4.753	74.83	563.2	.9795	1.335	1.035	481
3.	4.753	100.7	563.2	.9786	1.335	1.035	647
4.	4.753	120.99	563.2	.9813	1.335	1.036	780
5.							
NO.	R _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio <u>None Produced</u> Mcf/bbl.		
1.	.82	528	1.55	.927	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.		
2.	.84	542	1.59	.934	Specific Gravity Separator Gas <u>.561</u> X X X X X X X X		
3.	.84	543	1.59	.934	Specific Gravity Flowing Fluid <u>X X X X X</u>		
4.	.84	540	1.58	.932	Critical Pressure _____ P.S.I.A. <u>763</u> P.S.I.A.		
5.					Critical Temperature _____ R <u>341</u> R		
P _c <u>2013.2</u> P _c ² <u>4053</u>					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.6231$		
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.6231$		
1		1849.2	3401	652			
2		1481.2	2194	1859			
3		1345.2	1810	2243			
4		1247.2	1556	2497			
5							
Absolute Open Flow <u>1,266</u> Mcfd @ 15.025					Angle of Slope θ <u>45°</u>		Slope, n <u>1.000</u>
Remarks: <u>Pf Substituted for Pw measured with Amerada RPG-3 Instrument @ 11,657'</u>							
Approved By Commission: _____ Conducted By: <u>Massey</u> Calculated By: <u>Massey</u> Checked By: _____							