

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

Form C-122
 Revised 9-1-65

RECEIVED

Type Test <input type="checkbox"/> Initial <input type="checkbox"/> Annual <input checked="" type="checkbox"/> Special				Test Date 6-17-71		JUL 23 1971					
Company Pennzoil United, Inc.			Connection Transwestern Pipeline Co.								
Pool South Carlsbad Gas			Formation Morrow			Unit D.C.C. ARTESIA, OFFICE					
Completion Date 2-20-71		Total Depth 11,925		Plug Back TD 11,835		Elevation 3233.6					
Csg. Size 4 1/2		Wt. 11.6		Set At 11,925		Perforations: From 11,499 To 11,716					
Tbg. Size 2 3/8 EUE		Wt. 4.7		Set At 11,716		Perforations: From 11,703 To 11,716					
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 11,453		County Eddy					
Producing Thru Tubing		Reservoir Temp. °F 194 @ 11,607		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2					
L 11,607		H 11607		G _g .580		% CO ₂ .98					
				% N ₂ .30		% H ₂ S					
				Prover		Meter Run X					
						Taps					
FLOW DATA				TUBING DATA			CASING DATA				
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	Duration of Flow
SI							3240	82			72 Hrs SI
1.	2		1.250	805	16"	78	2749	86	Packer		190 Min
2.	2		1.250	805	33"	77	2380	94	Packer		190 Min
3.	2		1.250	830	55"	77	1985	92	Packer		190 Min
4.	2		1.250	830	73	74	1630	82	Packer		190 Min
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	8.120	114.4	818.2	.9831	1.313	1.058	1269				
2	8.120	164.3	818.2	.9840	1.313	1.058	1823.6				
3	8.120	215.3	843.2	.9840	1.313	1.060	2394.2				
4	8.120	248.0	843.2	.9868	1.313	1.062	2770.9				
5											
NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.		None produced				
1	1.21	538	1.54	.893	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.						
2	1.21	537	1.54	.893	Specific Gravity Separator Gas .580		XXXXXXXXXX				
3	1.25	537	1.54	.890	Specific Gravity Flowing Fluid _____		XXXXXX				
4	1.25	534	1.53	.887	Critical Pressure 676 P.S.I.A.		P.S.I.A.				
5					Critical Temperature 349 R		R				
P _c 3253.2		P _c ² 10583		(1) $\frac{P_c^2}{P_t^2 - R_w^2} = \frac{10583}{6348}$		(2) $\left[\frac{P_c^2}{P_t^2 - R_w^2} \right]^n = 1.5191$					
NO.	P _t ²	P _w	R _w ²	P _t ² - R _w ²	AOF = Q $\left[\frac{P_c^2}{P_t^2 - R_w^2} \right]^n = 3637$						
1		2772	7684	2899							
2		2428	5895	4688							
3		2058	4235	6348							
4		1724	2972	7611							
5											
Absolute Open Flow				3637 Mcfd @ 15.025		Angle of Slope @ 50° 43'		Slope, n .818			
Remarks: Sub-Surface Pressures Observed w/Amerada Type RPG-3 Pressure Gauge.											
Approved By Commission:			Conducted By: W. M. Cates			Calculated By: H. L. Hagler			Checked By:		