

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 1/23/69		JAN 31 1969	
Company Pan American Pet. Corp.				Connection Southern Union Gas Company			
Pool Undesignated				Formation Morrow		Unit O. C. C. ARTESIA, OFFICE	
Completion Date 11/1/68		Total Depth 10,610		Plug Back TD 9795		Elevation 3568 RDB	
Csg. Size 7"		Wt. 26#		Set At 9821		Perforations: From 9626 To 9748	
Thq. Size 2 3/8		Wt. 4.7#		Set At 9761		Perforations: From Open End To	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single				Packer Set At 9355		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 145 @ 9663		Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2	
L 9761		H 9761		G _g .630		% CO ₂ 0	
						% N ₂ 0.24	
						% H ₂ S 0	
						Prover X	
						Meter Run X	
						Taps Flange	

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							2510	62			120 hrs
1.	L	X	2.250	675	3.0	97	2185	62			1
2.	L	X	2.250	680	7.5	87	2245	62			1
3.	L	X	2.250	690	19	72	1860	62			1
4.	L	X	2.250	700	29	72	1760	62			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	25.64	45.44	683.2	.9762	1.260	1.054	1495
2	25.64	72.10	693.2	.9750	1.260	1.056	2398
3	25.64	115.6	703.2	.9887	1.260	1.053	3925
4	25.64	143.8	713.2	.9896	1.260	1.055	4856
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1	1.03	557	1.51	0.901	166.0	
2	1.03	547	1.49	0.897	74.0	
3	1.05	532	1.45	0.885		
4	1.06	531	1.44	0.881		
5.						

NO.	P _r	P _w	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} =$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n =$
1	2553.2	2151.3	6008.9	509.9	2.925	2.118
2		2311.5	5343.0	1175.8		
3		2071.2	4289.9	2223.9		
4		1938.3	3757.0	2761.3		
5						

Absolute Open Flow 3313 Mcfd @ 15.025				Angle of Slope ϕ		Slope, n 0.699	
Remarks: Initial Test							
Approved By Commission:		Conducted By: D. C. Penney et al		Calculated By: Donna Holbe		Checked By: H. L. Smith	