

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

Form C-122
Revised 9-1-65

RECEIVED

JAN 27 1977

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 11/23/76		JAN 27 1977		
Company Morris Antweil				Connection None		O. C. C. ARTESIA, OFFICE		
Pool Undesignated				Formation Morrow		Unit -		
Completion Date 11/6/76		Total Depth 11430		Plug Back TD 11380		Elevation 3350 gr.		
Csg. Size 5 1/2		Wt. 17		Set At 11385		Perforations: From 11242 To 11250		
Tbg. Size 2 1/2		Wt. -		Set At 11191		Perforations: From - To -		
Type Well - Single - Prodenhead - G.G. or G.O. Multiple Single				Packer Set At 11191		Farm or Lease Name Macho Norte		
Producing Thru Tbg.		Reservoir Temp. °F 186 @ 11246		Mean Annual Temp. °F -		Baro. Press. - P _a -		
L 11191		H 11191		Gg .588		% CO ₂ % N ₂ % H ₂ S		
Prover -				Meter Run -		Taps 6" Positive Choke Nipple		
FLOW DATA				TUBING DATA		CASING DATA		
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Duration of Flow	
1.	6 x 1/4			2545		65	72 hr.	
2.	6 x 5/16			2137		67	1 hr.	
3.	6 x 3/8			1771		68	1 hr.	
4.	6 x 1/2			1197		70	1 hr.	
5.								
RATE OF FLOW CALCULATIONS								
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor FL	Gravity Factor Fg	Super. Compress. Factor, Fpv	Rate of Flow Q, Mhd	
1.	1.112		2558.2	.9952	1.304	1.146	4231	
2.	1.771		2150.2	.9933	1.304	1.142	5633	
3.	2.591		1784.2	.9924	1.304	1.130	6760	
4.	4.722		1210.2	.9905	1.304	1.093	8067	
5.								
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio <u>Dry</u>		Mcf/Ebl.	
1.	3.81	525	1.48	.761	A.P.I. Gravity of Liquid Hydrocarbons		Dep.	
2.	3.20	527	1.49	.767	Specific Gravity Separator Gas		XXXXXXX	
3.	2.66	528	1.49	.783	Specific Gravity Flowing Fluid		XXXXXX	
4.	1.80	530	1.50	.837	Critical Pressure 672		P.S.I.A.	
5.					Critical Temperature 354		R	
$P_r = 3573.2$ $P_c^2 = 12767.8$								
NO.	P_r^2	P _w	P_w^2	$P_c^2 - P_w^2$	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.209$			(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.209$
1.		2629.8	6915.8	5851.9				
2.		2230.1	4973.3	7704.4				
3.		1920.2	3687.2	9080.6				
4.		1484.7	2204.3	10563.4				
5.								
Absolute Open Flow 9,750					Mhd @ 15.025		Angle of Slope G 45°	Slope, n 1.000
Remarks:								
Approved By Commission:		Conducted By: Rick Pagan		Calculated By: Rick Pagan		Checked By:		