

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 1-25-71	
Company Texas American Oil Corp.			Connection None		
Pool Wildcat			Formation Morrow		
Completion Date 1-25-71		Total Depth 8615'		Plug Back TD 8584'	
				Elevation Grd. 3820.6	
Farm or Lease Name Sullivan Federal					
Csq. Size 5 1/2"	Wt. 15.5-17#	d 4.767"	Set At 8615'	Perforations: From 8163' To 8513'	
Thq. Size 2-3/8"	Wt. 4.7#	d 1.995"	Set At 8082'	Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 8082'	
Producing Thru Tubing		Reservoir Temp. °F 145 @ 8600'		Mean Annual Temp. °F 600	
				Baro. Press. - 13.2	
L 8338		H 8338	Gg 0.590	% CO ₂ 0.81	% N ₂ 0.23
				% H ₂ S -0.2	Prover -
County Eddy				State New Mexico	
Mole Run				Taps	

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. In. Hg.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI	Orifice Well Tester										SI 89 hrs
1.	2"		1.250	9.3		74	1850	57			1 hr
2.	2"		1.250	15.3		70	1420	57			1 hr
3.	2"		1.250	18.4		66	1125	59			1 hr
4.	2"		1.250	22.0		63	885	63			1 hr
5.	2"		1.250			63	720	61			1 hr

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	515.0482			0.9868	1.3021	0.084	662 480
2	677.7634			0.9905	1.302		874 633
3	755.2			0.9943	1.302		978 757
4	838.0788			0.9971	1.302		1,088 793
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.					Dry	Dry	0.590		676	354
2.										
3.										
4.										
5.										

P _c 1863.2 P _c ² 34,715				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{1.183}{1.303}$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{1.121}{1.180}$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²			
1	1433.2	20.54	14.174				
2	1138.2	12.95	21.760				
3	898.2	8.06	26.647				
4	733.2	5.37	29.339				
5							

Absolute Open Flow <u>1,160 880</u> Mcfd @ 15.025				Angle of Slope θ <u>58°</u>		Slope, n <u>0.684</u>	
Remarks:							
Approved By Commission:		Conducted By:		Calculated By:		Checked By:	
For Record Only		J. T. Moseley		Roy K. Valla			

