

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

RECEIVED

1-87
1-File
1-C-127
Form C-122
Revised 9-1

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 6-29-78		JUL 10 1978	
Company Gulf Oil Corporation		Connection El Paso		O. C. C. ARTESIA, OFFICE	
Pool Undesignated		Formation Morrow		Unit	
Completion Date 3-10-78		Total Depth 11,983		Plug Back TD 11,937	
Csg. Size 7		Wt. 23 & 26		Elevation	
Tbg. Size 2 3/8		Wt. 4.7		Perforations: From 11,680 To 12,572	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G.G. Dual		Packer Set At 11500		Form or Lease Name Keohane C. Federal	
Producing Thru L 11,500 H 11,500		Reservoir Temp. °F 189 @ 11,500		Well No. # 1	
Mean Annual Temp. °F 13.2		Baro. Press. - P _g		Unit Sec. Twp. Hgt. 6 21 18 31	
% CO ₂		% N ₂		County Eddy	
% H ₂ S		Prever		State New Mexico	
Meter Run 4"		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
1.	4	X	.750	635	4.0	75	1274				72 Hrs.
2.	4	X	.750	635	7.8	74	1140				1 Hr
3.	4	X	.750	635	17.6	70	1010				1 Hr
4.	4	X	.750	635	23.6	73	800				1 Hr
5.											1 Hr

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _L	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	2.661	50.92	648.2	.9859	1.230	1.063	175
2.	2.661	71.11	648.2	.9868	1.230	1.065	245
3.	2.661	106.81	648.2	.9905	1.230	1.067	369
4.	2.661	147.58	648.2	.9877	1.230	1.065	508
5.							

NO.	P ₁	Temp. °R	T ₁	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature	P.S.I.A.	R
1.	.97	535	1.42	885	86.467	53.4 @ 60	.661	X X X X X X X X	670	378	669	388
2.	.97	534	1.41	882								
3.	.97	530	1.40	.879								
4.	.97	533	1.41	.882								
5.												

NO.	P ₁ ²	P _w ²	P _w ²	P _c ² - P _w ²
1	1153.7	1331.0	325.9	
2	1123.9	1263.8	393.1	
3	1025.7	1052.0	604.9	
4	819.3	671.3	985.6	
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.681$

ACF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = .774$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.523$

Absolute Open Flow	774	Mcf @ 15.025	Angle of Slope	51	Slope, n	810
--------------------	-----	--------------	----------------	----	----------	-----

Remarks: 1.25 Pbls Fluid Made During Test

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Larry Davis	Larry Davis	