

NEW 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 7/21/78		JUL 27 1978					
Company Gulf Oil Corporation				Connection None		O. C. C.					
Pool Undesignated <i>S. Castled</i>				Formation Morrow		Unit ARTESIA, OFFICE					
Completion Date 7/6/78		Total Depth 12000		Plug Back TD 11775		Elevation 3325 GL					
Csg. Size 5		Wt. 18		Set At 12000		Perforations: From 11396 To 11640					
Tbg. Size 2 3/8		Wt. n 80		Set At 11274		Perforations: From To					
Type Well - Single - Blindhead - G.G. or G.O. Multiple Single				Packer Set At 11274		County Eddy					
Producing Thru Tubing		Reservoir Temp. °F 187 @ 11274		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2					
L 11274		H 11274		Gg .579		% CO ₂ 1.21					
				% N ₂ .84		% H ₂ S					
				Prover		Meter Run 4"					
						Taps Flange					
FLOW 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											
1.	4	X	1.250	600	7.0	94	3625				72 Hrs
2.	4	X	1.250	615	15.0	76	3440				1 Hr
3.	4	X	1.250	620	28.0	60	3087				1 Hr
4.	4	X	1.250	630	54.0	59	2375				1 Hr
5.	4	X	1.250	630	54.0	59	1000				1 Hr
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	7.469	65.52	613.2	.9688	1.314	1.039	647				
2	7.469	97.07	628.2	.9850	1.314	1.046	982				
3	7.469	133.15	633.2	1.000	1.314	1.051	1373				
4	7.469	186.37	643.2	1.001	1.314	1.054	1930				
5											
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 68.500 Mcf/bbl.						
1.	.91	554	1.58	.926	A.P.I. Gravity of Liquid Hydrocarbons 52 @ 60° Deg.						
2.	.93	536	1.53	.914	Specific Gravity Separator Gas .579 XXXXXXXXX						
3.	.94	520	1.49	.905	Specific Gravity Flowing Fluid XXXXX .624						
4.	.96	519	1.48	.901	Critical Pressure 672 P.S.I.A. 671 P.S.I.A.						
5					Critical Temperature 350 R 365 R						
P _c 3638.2 P _c ² 13236.5											
NO.	P _w	P _w ²	P _c ² - P _w ²								
1	3455.8	11942.6	1293.9								
2	3112.0	9684.5	3552.0								
3	2401.1	5765.3	7471.2								
4	1073.7	1152.8	12083.7								
5											
Approved by Commission:	Conducted By: Larry Davis	Calculated By: Larry Davis	Checked By:								