

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

Form C-122
Revised 9-1-65

RECEIVED

C/SF
C-122

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 2-22-82		FEB 26 1982	
Company Gulf Oil Corp.				Direction Air		O. C. D.	
Well <i>Burton Flat narrow</i> N. E. Avalon				Formation Morrow		Per. ARTESIAN, OCEAN	
Completion Date		Total Length 11450		Flowing Well 11100		Turn or Lease Name Eddy F V ST. Com	
Co. Size 5 1/2	Wt. 17	d	Set At 11450	Performance: From 11058 To 11078		Well No. 1	
Trq. Size 2 3/8	Wt.	d	Set At 11002	Performance: From To		Unit Sec. Twp. Rge. H 25 20s 27e	
Type well - Single - Bradenhead - G.O. or G.O. Multiple Single				Packer Set At 11002		County Eddy	
Producing Thru Tbg.		Reservoir Temp. °F 184 11002		Mean Annual Temp. °F 60°		State N.M.	
L 11002	R 11002	Gg .625	% CO ₂ 2.298	% N ₂ .361	% H ₂ S	Prover	Meter Run 4"
						Flag.	

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	of Flow
51							2640				72 hrs.
1.	4 X 1.000			320	4.9	90	2003				1 hr.
2.	4 X 1.000			310	10.0	94	1505				1 hr.
3.	4 X 1.000			300	14.4	92	1140				1 hr.
4.	4 X 1.000			305	16.0	92	810				1 hr.
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. Compres. Factor, Fpv	Rate of Flow Q, Mcf/d
1	4.753	40.41	333.2	.9723	1.265	1.025	242
2	4.753	56.85	323.2	.9688	1.265	1.024	339
3	4.753	67.16	313.2	.9706	1.265	1.024	401
4	4.753	71.35	318.2	.9706	1.265	1.024	426
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	dry	Mcf/bbl.
1	.49	550	1.51	.951	A.P.I. Gravity of Liquid Hydrocarbons		Deg.
2	.48	554	1.52	.953	Specific Gravity Separator Gas	.625	X X X X X X X X
3	.46	552	1.51	.954	Specific Gravity Flowing Fluid	X X X X X	
4	.47	552	1.51	.953	Critical Pressure	678	P.S.I.A.
5					Critical Temperature	365	R

NO.	P _r ²	P _w ²	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	2016.7	4066.9	2972.6		1.108	1.084
2	1519.4	2308.7	4730.8			
3	1155.6	1335.4	5704.1			
4	827.2	684.2	6355.3			
5						

Absolute Cyclic Flow	462	Mcf @ 15.025	Angle of Slope	51.75°	Slope, n	.789
----------------------	-----	--------------	----------------	--------	----------	------

Remarks:			
Approved By Conservation:	Conducted By:	Calculated By:	Checked By:
	Davis Services, Inc.	Rick Pagan	