

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: 1/29/82		FEB 4 1982	
Company: Gulf Oil Corp. Exp. & Prod.				Connection: Air			
Pool: White City Penn. Morrow				Formation: Morrow		Unit: O. C. D. ARTESIA, OFFICE	
Completion Date: 1/23/82		Total Depth: 11774		Elevation: 11729 / 11640		Elevation: GL 3241	
Csg. Size: 5" liner		Set At:		Perforations: From 11472 To 11560		Well No.: 1	
Tbg. Size: 2 3/8		Set At:		Perforations:		Unit: F Sec: 13 Twp: 25s Rge: 26e	
Type Well - Single - Bradenhead - G.O. or G.O. Multiple: single gas				Packer Set At: 11415		County: Eddy	
Producing Thru: Tbg.		Reservoir Temp. °F: 188 @ 11415		Mean Annual Temp. °F: 60		State: N.M.	
L: 11415		H: 11415		Gg: .572		% CO ₂ : 1.0	
				% N ₂ : .50		% H ₂ S: 0	
				Prover:		Meter Run: 3"	
						Turn: FLG.	

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
SI							3850				72 hr.
1.	3 X 1.750			500	4.0	90	3700				1 hr.
2.	3 X 1.750			510	11.0	90	3460				1 hr.
3.	3 X 1.750			510	24.0	90	3120				1 hr.
4.	3 X 1.750			510	39.0	88	2700				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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	15.61	45.31	513.2	.9723	1.322	1.032	938
2	15.61	75.86	523.2	.9723	1.322	1.033	1572
3	15.61	112.06	523.2	.9723	1.322	1.033	2323
4	15.61	142.85	523.2	.9741	1.322	1.034	2969
5.							

NO.	P _r	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.	.76	550	1.59	.939	dry		.572		672	346
2.	.78	550	1.59	.938						
3.	.78	550	1.59	.938						
4.	.78	548	1.58	.936						
5.										

NO.	P _r 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	3716.0	13808.7	1115.6	2.053	1.605
2	3486.3	12154.3	2770.0		
3	3163.2	10005.8	4918.5		
4	2766.6	7654.1	7270.2		
5					

Absolute Open Flow: **4,766** Mcf/D @ 15.025 Angle of Slope: **56.75°** Slope, n: **.658**

Remarks:

Approved By: _____ Conducted By: **Davis Services, Inc.** Calculated By: **Rick Pagan** Checked By: _____

Posted ID-2
 & Comp. Book
 SI
 2-19-82