

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form G-122
Revised 9-1-65

RECEIVED

Test Type: ☒ Initial ☐ Annual ☐ Special		Test Date: 11-21-79		Well Name: NOV 20 1979	
Company: GULF OIL CORP.		Connection: AIR		Well No.: L	
Well No.: 1		Formation: MORROW		Field: EDDY "AV" STATE	
Completion Date: 11-17-79		Total Depth: 11,300		Plug Back To: 11,262	
Elevation: 3358 GL		Perforations: From 11,067 To 11,073		Well No.: # 1	
Casing Size: 5 1/2		Set At: 11,300		Unit: L	
Tubing Size: 2 3/8		Set At: 10,973		Sec.: 27	
Type Well: SINGLE		Packer Set At: 10,973		Twp.: 19s	
Producing Interval: TBG.		Reservoir Temp. °F: 184 @ 10,973		State: NEW MEXICO	
Mean Annual Temp. °F: 13.2		Meter Run: 4"		Flow: FLG.	
10973		10973		.603	
.66		.25		.25	

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.	
1.	4 X 1.250			480	4.0	79	2585			
2.	4 X 1.250			590	8.0	92	2500			
3.	4 X 1.250			610	16.5	98	2350			
4.	4 X 1.250			620	32.0	103	2150			
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 Compress. Factor, F _{spv}	Rate of Flow Q, Mscf/d
1.	7.469	44.42	493.2	.9822	1.288	1.038	436
2.	7.469	69.47	603.2	.9706	1.288	1.043	677
3.	7.469	101.40	623.2	.9653	1.288	1.043	982
4.	7.469	142.35	633.2	.9610	1.288	1.041	1370
5.							

NO.	P ₁	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio <u>dry</u> Mscf/Dbl.
1.	.74	539	1.51	.928	A.P.G. Gravity of Liquid Hydrocarbons _____ Deg.
2.	.90	552	1.54	.919	Specific Gravity Separator Gas _____
3.	.92	556	1.55	.919	Specific Gravity Flowing Fluid _____
4.	.94	563	1.57	.922	Critical Pressure _____ P.S.I.A.
5.					Critical Temperature _____ °R

NO.	P ₁	P _w	P _w ²	P ₁ ² - P _w ²	(1) $\frac{P_1^2}{P_1^2 - P_w^2} = 2.717$	(2) $\left[\frac{P_1^2}{P_1^2 - P_w^2} \right]^n = 2.377$
1.		2600.5	6762.6	735.1		
2.		2515.8	6329.2	1168.5		
3.		2369.1	5612.6	1885.1		
4.		2176.8	4738.5	2759.3		
5.						

Absolute Open Flow 3,256		Mscf @ 15.025		Angle of Slope 49°		Slope, n .866	
Remarks: _____							
Approved by Commission: _____		Conducted by: JOHN R. DAVIS		Calculated by: LARRY C. DAVIS		Checked By: _____	