

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 10/27/78		NOV - 6 1978	
Company GULF OIL CORP.		Connection AIR		J. C. C. ARTESIA, OFFICE	
Pool Millman Strawn UNDEVELOPED		Formation STRAWN		Unit I	
Completion Date 9/25/78		Total Length 10957		Plug Back TD 10914	
Elevation 3521		Farm or Lease Name EDDY G Z ST. COM.		Well No. # 1	
Csg. Size 5 1/2	Wt. 17	Set At 10957	Perforations: From 9717 To 9742		Unit Sec. Twp. Rge. I 12 19 27
Tbg. Size 2 3/8	Wt. 4.7	Set At 9630	Perforations: From To		County EDDY
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE			Packer Set At 9618		State NEW MEXICO
Producing Thru TEG.		Reservoir Temp. °F 170 @ 9630		Mean Annual Temp. °F 60°	
Baro. Press. - P _a 13.2		Prover 9630		Meter Run 4"	
L 9630		H 9630		G _g .800	
% CO ₂ 3.50		% N ₂ 7.121		% H ₂ S	
Taps FIG.					

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							1500				72 Hr.
1.	4	X	.750	540	10.0	72	1420				1 Hr.
2.	4	X	.750	560	20.0	105	1275				1 Hr.
3.	4	X	.750	560	40.0	110	1175				1 Hr.
4.	4	X	.750	560	74.0	108	1025				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 Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	2.661	74.38	553.2	.9887	1.118	1.087	238
2	2.661	107.07	573.2	.9594	1.118	1.073	328
3	2.661	151.42	573.2	.9551	1.118	1.071	461
4	2.661	205.95	573.2	.9568	1.118	1.071	628
5.							

NO.	P _t	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.	.83	532	1.25	.846	DRY		.800	X X X X X	665	424
2.	.86	565	1.33	.869						
3.	.86	570	1.34	.872						
4.	.86	568	1.34	.872						
5.										

NO.	P _t	P _w	P _w ²	P _c ² - P _w ²
1	1513.2	1433.7	2055.6	234.2
2		1289.4	1662.6	627.2
3		1190.8	1418.1	871.7
4		1044.1	1090.2	1199.6
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.909$

ACT = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.199$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.909$

Tested SP-24 back 11-17-78 SI

Absolute Open Flow	1,199	Mcfd @ 15.625	Angle of Slope @	45 °	Slope, n	1.000
Remarks:						

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
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