

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 8/29/73		SEP 10 1973		
Company Gulf Oil Corporation				Connection -				O. C. C.	
Pool Burton Flat				Formation Strawn				Unit ARTESIA, OFFICE	
Completion Date ---		Total Depth 11,515		Plug Back TD 10,948		Elevation 3217 GR		Farm or Lease Name Cerf-Federal Com	
Csg. Size 7"	26	6.366	Set At 11,514	Perforations: From 10,217 To 10,269		Well No. 1			
Tbg. Size 2 3/8	4.7	1.995	Set At 10,090	Perforations: From To		Unit Sec. Twp. Rge. C 10 21S 27E			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas-Gas Dual					Packer Set At 10,090		County Eddy		
Producing Thru Tbg.		Reservoir Temp. *F 175 @ 10,200		Mean Annual Temp. *F 60°		Baro. Press. - P _a 13.2		State New Mexico	
L	H	G _g	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run	Taps	
10,090	10,090	.678	-	-	-		X	Flange	

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							3415				72
1.	4	x	1.5	285	5	92	2807	77			1
2.	4	x	1.5	295	24	92	2200	75			1
3.	4	x	1.5	325	33	90	1737	72			1
4.	4	x	1.5	330	35	90	1140	72			1
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	10.84	38.61	298.2	.9706	1.214	1.027	506
2	10.84	86.00	308.2	.9706	1.214	1.028	1129
3	10.84	105.64	338.2	.9723	1.214	1.031	1394
4	10.84	109.60	343.2	.9723	1.214	1.031	1446
5							

NO.	P _r	Temp. *R	T _r	Z	Gas Liquid Hydrocarbon Ratio	20.72 Mcf/bbl.
					A.P.I. Gravity of Liquid Hydrocarbons	55.00 Deg.
1	.45	552	1.45	.948	Specific Gravity Separator Gas	.678 X X X X X X X X
2	.46	552	1.45	.947	Specific Gravity Flowing Fluid	X X X X X .816
3	.51	550	1.44	.940	Critical Pressure	669 P.S.I.A. 665 P.S.I.A.
4	.51	550	1.44	.940	Critical Temperature	382 R 428 R
5						

NO.	P _t	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.725$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.446$
1	3428.2	11752.6	2820.2	7953.5	3799.1	
2			2222.5	4939.5	6813.1	
3			1765.6	3117.3	8635.3	
4			1177.9	1387.4	10365.2	
5						

Absolute Open Flow		1632 Mcfd @ 15.025	Angle of Slope @	Slope, n 0.677
Remarks: Friction on rate No. 1 negligible				
Approved By Commission: Conducted By: Calculated By: Checked By:				