

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 -			
Pool Burton Flat				Formation Morrow		Unit B.C.C. ARTESIA, OFFICE	
Completion Date		Total Depth 11,515		Plug Back TD 11,468		Elevation 3217 GR.	
Csg. Size 7"		Wt. 23		Set At 11,514		Perforations: From 11,013 To 11,361	
Tbg. Size 2 7/8		Wt. 6.4		Set At 10,948		Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas - Gas Dual				Packer Set At 10,948		Farm or Lease Name Cerf-Federal Com	
Producing Thru L		Reservoir Temp. °F 175 @ 10,200		Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2	
H 10,948		G _g .610		% CO ₂ -		% N ₂ -	
G _g 10,948		G _g .610		% H ₂ S -		Prover X	
Meter Run X		Taps Flange		County Eddy		State New Mexico	

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							3068				72
1.	4	x	1.0	190	9.5	79	2933	79			1
2.	4	x	1.0	200	23.0	80	2795	78			1
3.	4	x	1.0	200	52.0	79	2554	74			1
4.	4	x	1.0	690	36.0	79	1960	75			1
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, Fpv	Rate of Flow Q, Mcfd
1	4.753	43.94	203.2	.9822	1.280	1.016	267
2	4.753	70.03	213.2	.9813	1.280	1.017	425
3	4.753	105.29	213.2	.9822	1.280	1.017	640
4	4.753	159.11	703.2	.9822	1.280	1.057	1005
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio TSTM Mcf/bbl.	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
1	0.30	539	1.49	.968	Specific Gravity Separator Gas .610	XXXXXXX
2	0.32	540	1.49	.966	Specific Gravity Flowing Fluid XXXXX	
3	0.32	539	1.49	.966	Critical Pressure 671 P.S.I.A.	P.S.I.A.
4	1.05	539	1.49	.895	Critical Temperature 362 R	R
5						

NO.	P _r ²	P _w	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		2946.2	8680.1	813.7	1.695	1.435
2		2808.2	7886.0	1607.8		
3		2567.2	6590.5	2903.3		
4		1973.2	3893.5	5600.3		
5						

Absolute Open Flow 1442 Mcfd @ 15.025				Angle of Slope ϕ _____		Slope, n .685	
Remarks: Friction negligible							
Approved By Commission:		Conducted By: <i>Reginald E. Ewing</i>		Calculated By: <i>Norman Hollos</i>		Checked By:	