

W 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 7/12/78		JUL 17 1978			
Company Gulf Oil Corporation ✓						Connection Air					
Pool South Carlsbad <i>Morrow</i>						Formation Morrow		Unit K O. C. C. ARTESIA, OFFICE			
Completion Date 7/1/78		Total Depth 12297		Ring Back TD 12234		Elevation 3142 GL		Farm or Lease Name Eddy "GF" State			
Csg. Size 5 1/2	Wt. 17	d	Set At 12297	Perforations: From 12054 To 12188		Well No. # 2					
Tbg. Size 2 3/8	Wt. n/80	d	Set At 11994	Perforations: From To		Unit K		Soc. 16	Twp. 23	Page 27	
Type Well - Single - Prodenhead - G.G. or G.O. Multiple Single						Packer Set At 11994		County Eddy			
Producing Thru Tubing		Reservoir Temp. °F 180° perfs		Mean Annual Temp. °F 60°		Poro. Press. - P _a 13.2		State New Mexico			
L 11994	H 11994	G _s .573	% CO ₂	% N ₂	% H ₂ S	Prover		Meter Run 4"	Taps 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							2375				72 hr
1.	4	X	.750	600	9.5	54	2190				1 hr
2.	4	X	.750	600	21.0	55	2107				1 hr
3.	4	X	.750	620	41.0	54	1760				1 hr
4.	4	X	.750	630	76.0	54	1120				1 hr
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{r_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	2.661	76.32	613.2	1.006	1.321	1.050	283
2	2.661	113.48	613.2	1.005	1.321	1.051	421
3	2.661	161.12	633.2	1.006	1.321	1.051	599
4	2.661	221.10	643.2	1.006	1.321	1.052	823
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Dry _____ Mcf/bbl.
1.	.91	514	1.49	.907	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.	.91	515	1.49	.907	Specific Gravity Separator Gas .573 X X X X X X X X
3.	.94	514	1.49	.905	Specific Gravity Flowing Fluid X X X X X
4.	.96	514	1.49	.903	Critical Pressure 672 P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature 346 R _____ R

P _c 2388.2 P _c ² 5703.5				
NO.	P _t ²	P _w	P _t ²	P _c ² - P _w ²
1		2203.8	4856.8	846.7
2		2121.6	4501.2	1202.3
3		1776.7	3156.5	2547.0
4		1143.8	1308.3	4395.3
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.298$

ACF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = .976$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.185$

Post 7-21-78 JEP

Absolute Open Flow _____ 976 _____ Mcfd @ 15.025	Angle of Slope _____ 56.75°	Slope, n _____ .653
Remarks: _____		
Approved By Commission: _____	Conducted By: _____ Larry Davis	Calculated By: _____ Larry Davis
		Checked By: _____