

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

1-File
1-C-122
Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 6-29-78		JUL 10 1978	
Company Gulf Oil Corporation		Connection Warren			
Pool Atoka		Formation Atoka		Unit O.C.C. ARTESIA, OFFICE	
Completion Date 3-10-78		Total Depth 11,983		Plug Back TD 11937	
Elevation 3650 GL		Form or Lease Name Keohane C Federal		Well No. # 1	
Csg. Size 7" 23 & 26	Set At TD	Perforations: From 11174 To 11184		Unit 21 18 31	
Teg. Size 2 3/8" 4.7	Set At 11,100	Perforations: From Open To		State New Mexico	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G.G. Single				Packer Set At 11,100	
Producing thru Tubing		Reservoir Temp. °F 185 @ 11,100		Mean Annual Temp. °F	
Baro. Press. - P _a		County Eddy		State New Mexico	
L 11,100	H 11,100	G _g .665	% CO ₂	% N ₂	% H ₂ S
Prever		Meter Run 4"		Taps Flange	

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prever 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	
1.	4	✓	1.00	911	5.3	79	2575				72 Hrs
2.	4	✓	1.00	911	10.2	73	2225				1 Hr
3.	4	✓	1.00	911	42.3	71	2150				1 Hr
4.	4	✓	1.00	899	38.4	70	1100				1 Hr
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24.18)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor F _{pv}	Rate of Flow Q, Mcfd
1.	1.752	69.99	924.2	.9822	1.226	1.089	436
2.	1.752	97.09	924.2	.9877	1.226	1.095	612
3.	1.752	197.72	924.2	.9896	1.226	1.098	1252
4.	1.752	187.16	912.2	.9905	1.226	1.096	1184
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 21.830 Mcf/ubl. A.P.I. Gravity of Liquid Hydrocarbons 53.4 @ 60 Deg. Specific Gravity Separator Gas .665 Specific Gravity Flowing Fluid XXXXX Critical Pressure 670 P.S.I.A. Critical Temperature 378 R
1.	1.38	539	1.43	.843	
2.	1.38	533	1.41	.843	
3.	1.38	531	1.40	.830	
4.	1.38	530	1.40	.833	
5.					

NO.	P _r	P _w	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 1.324$ (2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.308$ AOF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.638$
1.		2240.2	5018.5	1680.3	
2.		2163.5	4680.7	2018.1	
3.		1280.9	1640.7	5058.1	
4.		1132.6	1282.8	5416.0	
5.					

Absolute Open Flow 1.638 Mcfd @ 15.025	Angle of Slope @ 46.25	Slope, n .957
Remarks: 1. Tubs. Of Fluid Made During Test, Choke On Heater Malfunctioned During 3rd Date		
Approved By: [Signature]	Conducted By: Larry Davis	Calculated By: Larry Davis
Checked By:		