

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 7-22-74		AUG 7 1974			
Company Goquina Oil Corp.						Connection None				O.C. #	
Pool West Atoka Morrow						Formation Morrow				Unit ARTESTA, OFFICE	
Completion Date 5-30-74			Total Depth 8871		Perforations 8788		Elevation 3449KB		Farm or Lease Name Hare		
Casing Size 4 1/2		WT. 11.6, 10.5		Set At 8831		Perforations From 8608 To 8702		Well No. 1			
Tubg. Size 2 3/8		WT. 4.7		Set At 8727.7		Perforations From To		Unit 1		Sec. Twp. Rge. 12 18S 25E	
Type well - Single - Production - G.G. or G.O. Multiple Single						Packer Set At 8574 KB		County Eddy			
Producing Thru tubing		Reservoir Temp. °F 152 @ 8600		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State New Mexico			
L 8727.7		H 8727.7		G _g .62		% CO ₂ None		% N ₂ None		% H ₂ S None	
						Prover		Meter Run 3.068		Type 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							2588				
1.	3.068		.750	280	11	80	2527	72			60 min.
2.	3.068		.750	460	16.5	80	2471	74			60 min.
3.	3.068		1.250	180	15	68	2345	70			60 min.
4.	3.068		1.250	420	38	66	1701	68			60 min.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor F _{sp}	Rate of Flow Q, Mcfd
1	2.672	56.79	293.2	.813	1.270	1.027	194
2	2.672	88.36	473.2	.9813	1.270	1.042	307
3	7.577	53.83	193.2	.9924	1.270	1.019	524
4	7.577	128.30	433.2	.9943	1.270	1.039	1275
5							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	Meq/lb.
1	.44	540	1.48	.949	No fluid made	
2	.70	540	1.48	.921	A.P.I. Gravity of Liquid Hydrocarbons	None
3	.29	538	1.44	.963	Specific Gravity Separator Gas	.62
4	.65	526	1.44	.926	Specific Gravity Flowing Fluid	XXXXXX
5					Critical Pressure	671
					Critical Temperature	365

NO.	P _c	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.8179$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.629$
1		3271.2	10700	524		
2		3186.2	10152	1072		
3		3050.2	9304	1920		
4		2247.2	5050	6174		
5						

Absolute Open Flow 2,077			Mold @ 15.025		Angle of Slope 52.5		Slope, n .780		
Remarks: PW substituted for Pc - Measured with Amerada instrument No. 33118 - 10,000 # Element.									
Approved By: [Signature]			Conducted By: [Signature]			Calculated By: [Signature]		Checked By: [Signature]	