

Copy 651
C-122

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 1-17-74		FEB 15 1974	
Company Coquina Oil Corporation				Connection None		C. O. C.	
Pool Morrow				Formation Morrow		Unit ARTESIA, EDDY	
Completion Date 1-17-74		Total Depth 9640		Plug Back TD 9590		Elevation 3533KB	
Casing Size 5 1/2"		Set At 9640'		Perforations: From 9236' To 9318'		Well No. 1	
Tubing Size 2 7/8"		Set At 9179'		Perforations: From To		Unit Sec. Twp. Rge. 34 19 S 25E	
Type Well - Single - Braidedhead - G.G. or G.O. Multiple Single				Packer Set At 9179'		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 182 @ 9200'		Mean Annual Temp. °F 13.2		State New Mexico	
L 9179		H 9179		Gg .675		% CO ₂ % N ₂ % H ₂ S Prover 3.068 Flange	

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
51						60	3070	60			72:15
1.	3.068		1.750	500	7	64	3000	76			60 Min
2.	3.068		1.750	525	12	75	2967	75			60 Min
3.	3.068		1.750	530	17	73	2939	67			60 Min
4.	3.068		1.750	540	27	69	2889	58			60 Min
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 _{sp}	Rate of Flow Q, Mcfd
1	15.61	59.94	513.2	.9850	1.217	1.068	1.197
2	15.61	80.36	538.2	.9859	1.217	1.067	1.606
3	15.61	96.10	543.2	.9933	1.217	1.073	1.946
4	15.61	122.21	553.2	1.0020	1.217	1.086	2.526
5							

NO. 1 2 3 4 5				Gas Liquid Hydrocarbon Ratio <u>Dry</u> Mcf/lbbl. A.P.L. Gravity of Liquid Hydrocarbons <u>Dry</u> Deg. Specific Gravity Separator Gas <u>.675</u> xxxxxxxx Specific Gravity Flowing Fluid <u>Dry</u> xxxxxx Critical Pressure _____ P.S.I.A. Critical Temperature _____ R			
1. 3853.2 12. 14,847 NO. 1 2 3 4 5 1 9079.3 3771.2 14222 625 2 8881.5 3746.2 14034 813 3 8715.0 3726.2 13885 962 4 8423.0 3668.2 13456 1391 5				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 9.641$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 9.4877$ AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 28,463$ FEB 14 1974 U.S. GEOLOGICAL SURVEY ARTESIA, NEW MEXICO Absolute Open Flow <u>28,463</u> Mcfd @ 15.025 Angle of Slope <u>45.3</u> Slope, n <u>9910</u>			

Remarks:

Operator or Commission:

Conducted By:

Wyatt

Calculated By:

Pyle

Checked By: