

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 10-22-73		OCT 30 1973	
Company Coquina Oil Corporation				Connection Natural Gas Pipeline Co.			
Pool West Atoka <i>Coquina Flow</i>				Formation Cisco		Unit O. C. C. ARTESIA, OFFICE	
Completion Date 6-12-73		Total Depth 8700'		Plug Back TD 7320'		Elevation 3471 G.L.	
Farm or Lease Name Clancy Com.		Well No. 1		Unit 0		Sec. Twp. Rge. 11 18S 25E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 6872		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 143 @ 7085		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
State New Mexico		L 6884		H 6884		G _g .674	
% CO ₂		% N ₂		% H ₂ S		Prover 3.068	
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.	
SI							1394			
1.	3.068	.500	1110	22	71	1331	70			60 Min
2.	3.068	.500	1098	29.5	82	1289	72			60 Min
3.	3.068	.500	1094	38.5	86	1160	72			60 Min
4.	3.068	.500	880	9	89	890	73			60 Min
5.	3.068	.500	590	33	86	625	75			60 Min

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 _{pv}	Rate of Flow Q, Mcfd
1	1.183	171.92	1344.2	.9896	1.218	1.146	281
2	1.183	196.08	1302.2	.9795	1.218	1.130	313
3	1.183	212.51	1173.2	.9759	1.218	1.112	332
4	1.183	90.31	903.2	.9732	1.218	1.086	138
5	1.183	145.13	638.2	.9759	1.218	1.061	216

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1	2.009	531	1.390	.761	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2	1.906	542	1.418	.783	Specific Gravity Separator Gas .674
3	1.754	546	1.429	.808	Specific Gravity Flowing Fluid _____
4	1.350	549	1.437	.848	Critical Pressure 669 P.S.I.A.
5					Critical Temperature 382 °R

P _c 1750.2 P _c ² 3063			
NO.	P _t ²	P _w	P _w ²
1		1695.2	2873
2		1656.2	2743
3		1637.2	2680
4		1621.2	2628
5		1478.3	2185

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 3.4886$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.2727$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 491$$

Absolute Open Flow	491	Mcf/d @ 15.025	Angle of Slope	57°	Slope, n	.657
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Remarks: _____

Approved By Commission:	Conducted By: John Spruill	Calculated By: John Spruill	Checked By:
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