

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 3-20-74		APR 1 - 1974	
Company Coquina Oil Corporation		Connection Natural Gas Pipeline Co. of America		O. C. C.	
Pool West Altona - Monahan 5 Mile Draw Unit		Formation Morrow		Unit ARTESIA, OFFICE	
Completion Date 3-20-74		Total Depth 8665		Plug Back TD 8620	
Elevation 3447 ft.		34 S KB		Form or Lease Name Superior Federal	
Casing Size 5 1/2		Set At 8666.80		Perforations: From 8434 To 8440	
Well No. 2		Unit K		Sec. 1	
Type Well - Single - Production - G.G. or G.O. Multiple single		Packers Set At 8380		County Eddy	
Producing Time tubing		Reservoir Temp. °F 178 @ 8425		Mean Annual Temp. °F 60	
Baro. Press. - P _d 13.2		State New Mexico		Prover Meter Run 4.026	
Taps flange		Prover 4.026		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
1.	4.026		2.250	886	5.6	66	980	60	910		90 min.
2.	4.026		2.250	886	4.7	70	1499	57	922		90 min.
3.	4.026		2.250	882	3.8	68	1602	57	955		90 min.
4.	4.026		2.250	885	3.0	66	1210	54	960		90 min.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft	Gravity Factor Fg	Super. Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1.	25.99	70.96	899.2	.9743	1.264	1.080	2503
2.	25.99	64.65	899.2	.9905	1.264	1.080	2272
3.	25.99	58.32	895.2	.9924	1.264	1.080	2053
4.	25.99	51.91	898.2	.9943	1.264	1.080	1831
5.							

NO. P _t Temp. °R T _r Z 1. 1.325 526 1.44 .857 2. 1.325 530 1.45 .857 3. 1.334 528 1.446 .857 4. 1.338 526 1.44 .857				Gas Liquid Hydrocarbon Ratio 57.63 to 1 Mcf/bbl. A.P.I. Gravity of Liquid Hydrocarbons 58 Deg. Specific Gravity Separator Gas .626 Specific Gravity Flowing Fluid X X X X X Critical Pressure 671 P.S.I.A. Critical Temperature 365 R			
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NO. P _t P _w P _w ² P _t ² - P _w ² 1. 3743.2 3092.2 9562 2024 2. 3166.2 9899 1957 3. 3262.2 10247 1609 4. 3253.2 10583 1273 5.				(1) $\frac{P_t^2}{P_t^2 - P_w^2} = 6.058$ (2) $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 2.4776$ AOF = Q $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 5.629$	
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Absolute Open Flow 5629 Mcfd @ 15.025		Angle of Slope 62.5		Slope, n .504	
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Remarks: PW substituted for PT - measured with Amerada instrument no. 33109 7000" element	
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Calculated By: Spruell	Checked By: Pyle
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