

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

Form C-122
Revised 9-1-65

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Type Test ☒ Initial ☐ Repeat				Test Date 10-4-73		OCT 26 1973	
Company Coquina Oil Corporation				None		D.C.C.	
Pool Undesignated				Morrow		ARTESIA, OFFICE	
Completion Date 10-4-73		Set At 9421'		Perforations 9362'		Elevation G.L. 3988'	
Casing Size 4 1/2"		Wt. 11.6#		Set At 9421'		Perforations From 9174' To 9202'	
Tubing Size 2 3/8"		Wt. 4.7#		Set At 9131'		Perforations From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 9131'		County Chaves	
Producing Thru Tubing		Reservoir Temp. °F 189 @ 9100'		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
L		H		G _g .64		% CO ₂ 0	
				% N ₂ 0		% H ₂ S 0	
				Prover		Meter Run 4.0	
						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							2025			
1.	4.0		1.125	300	68	100	1554	72		
2.	4.0		1.125	600	45	100	1301	72		
3.	4.0		1.125	600	52	94	1097	73		
4.	4.0		1.125	600	59	90	880	74		
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 _{pv}	Rate of Flow Q, Mcfd
1	6.031	145.9	313.2	.9636	1.250	1.028	1.089
2	6.031	166.1	613.2	.9636	1.250	1.048	1.264
3	6.031	178.3	613.2	.9688	1.250	1.050	1.367
4	6.031	190.1	613.2	.9723	1.250	1.049	1.461
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1	.467	546	1.46	.947	.3230	
2	.915	560	1.50	.910	58	
3	.915	554	1.49	.907	0.64	
4	.915	550	1.48	.905		
5						

NO.	P _t	P _w	P _w ²	P _c ² - P _w ²
1	2621.2	2028.2	4113	2757
2	6870	1720.2	2959	3911
3		1455.2	2117	4753
4		1231.2	1516	5354
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.283$

ACF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.689$

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OCT 18 1973

U. S. GEOLOGICAL SURVEY

ARTESIA, NEW MEXICO

Absolute Open Flow	1,689 Mcfd @ 15.025	Angle of Slope	60°	Slope, n	.570
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Remarks: PW substituted for PT-measured with Amerada Pressure Gauge type RPG-3 No. 32848
0 to 5000# range

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