

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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*Copy 631
C-122*

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 8-7-73		AUG 16 1973	
Company Coquina Oil Corporation			Connection		
Pool Atoka, Morrow, West-(Gas)			Morrow		Unit ARTESIA, OFFICE
Completion Date 8-7-73		Total Depth 8700'	Plug Back TD 8648	Elevation 3437 G.L.	Farm or Lease Name Superior-Federal
Csg. Size 4 1/2	Wt. 11.6	d 3.875"	Set At 8688'	Perforations: From 8430 To 8445	Well No. 1
Tub. Size 2 3/8"	Wt. 4.7	d 1.993"	Set At 8445'	Perforations: From 8442 To 8445	Unit Soc. Twp. Rge. G 1 18S 25E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 8648 8388	County Eddy
Producing Thru 2 3/8" Tubing		Reservoir Temp. °F 168° @ 8398	Mean Annual Temp. °F 60°	Baro. Press. - P _a 13.2	State New Mexico
L	H	G _g .635	% CO ₂ 1.0	% N ₂ None	% H ₂ S .01
				Prover	Meter Run 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. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							2612				
1.	3.068		2.250	430	4.0	94	2312	74			120 Min.
2.	3.068		2.250	450	7.2	94	2095	74			120 Min.
3.	3.068		2.250	450	12	94	1861	74			120 Min.
4.	3.068		2.250	450	17.4	94	1592	74			120 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 _{pv}	Rate of Flow Q, Mcfd
1.	28.78	42.09	443.2	.9688	1.255	1.036	1,526
2.	28.78	57.75	463.2	.9688	1.255	1.038	2,098
3.	28.78	74.70	463.2	.9688	1.255	1.038	2,713
4.	28.78	89.72	463.2	.9688	1.255	1.038	3,259
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	.6614	554	1.489	.932	A.P.I. Gravity of Liquid Hydrocarbons	Deg.
2.	.6913	554	1.489	.929	Specific Gravity Separator Gas .635	XXXXXXX
3.	.6913	554	1.489	.929	Specific Gravity Flowing Fluid XXXXX	
4.	.6913	554	1.489	.929	Critical Pressure 670 P.S.I.A.	P.S.I.A.
5.					Critical Temperature 372 °R	°R

NO.	P _r ²	P _w	P _w ²	P _r ² - P _w ²
1	2914.2	849.3	248.7	
2	2710.2	734.5	363.5	
3	2450.2	600.3	497.7	
4	2164.2	468.4	629.6	
5				

(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 1.7439$

(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.478$

$\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 4.817$

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Absolute Open Flow 4,817 Mcfd @ 15.025 Angle of Slope θ 51.5° Slope, n .703

Remarks: P_f substituted for P_w

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