

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

Form C-122
Revised 9-1-65

RECEIVED

*Copy to S.F.
C-122*

OCT 30 1973

Type Test ☐ Initial ☐ Annual ☒ Special				Test Date 10-22-73			
Company Coquina Oil Corporation				Connection Natural Gas Pipeline Co.		O. C. C. ARTESIA, OFFICE	
Pool West Atoka <i>Coquina</i>				Formation Cisco		Unit Five Mile Unit	
Completion Date 1-29-73		Total Depth 8795'		Plug Back TD 7222'		Elevation KB 3480'	
Farm or Lease Name 5 Mile Unit		Well No. 1 H					
Csq. Size 4 1/2"	Wt. 10.5, 11.6	d 1.993"	Set At 7287.53	Perforations: From 7113 To 7126			
Tbg. Size 2 3/8	Wt. 4.70#	d 1.993"	Set At 7031.81	Perforations: From 7132 To 7140			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 6959'		County Eddy	
Producing Thru 2/38" Tbg.		Reservoir Temp. °F 168 @ 7000'		Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2	
State New Mexico							
L	H	Gg .6882	% CO ₂	% N ₂	% H ₂ S	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. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI							1004				
1.	3.068		1.250	957	1.3	71	970	70			60 Min
2.	3.068		1.250	880	2.3	76	892	75			60 Min
3.	3.068		1.250	570	38	76	654	76			60 Min
4.	3.068		1.250	555	49.5	77	610	80			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 _{pv}	Rate of Flow Q, Mcfd
1	7.577	35.51	970.2	.9896	1.205	1.114	375
2	7.577	45.63	905.2	.9850	1.205	1.098	450
3	7.577	148.87	583.2	.9850	1.205	1.066	1,427
4	7.577	167.67	568.2	.9840	1.205	1.062	1,600
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.	1.450	531	1.368	.806	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.	1.315	536	1.381	.829	Specific Gravity Separator Gas .6882 XXXXXXXXXX
3.	.871	536	1.381	.880	Specific Gravity Flowing Fluid XXXXXX
4.	.849	537	1.384	.886	Critical Pressure 669 P.S.I.A. P.S.I.A.
5.					Critical Temperature 388 R R

P _c 12572	P _c ² 1581	
NO	P _r ²	P _w ²
1	1213.2	1472
2	1164.2	1355
3	1023.2	1047
4	938.3	880
5		

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 2.255$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.981$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.169$$

Absolute Open Flow 3,169 Mcfd @ 15.025	Angle of Slope θ 51°	Slope, n .808
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Remarks:

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