

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

Form C-122
Revised 9-1-65

Type Test ☒ Initial 4-point ☐ Annual ☐ Special		Test Date 1/7/83	
Company Coquina Oil Corporation		Connection Air-no gas connection	
Pool Wilson Yates Seven Rivers		Formation Yates	
Completion Date 1/6/83		Total Depth 3734	Plug Back TD 3570
		Elevation 3656 DF	Farm or Lease Name State Battery #7
Csg. Size 7"	Wt. 20#	d 6.331	Set At 3605'
		Perforations: From 3452 To 3562	
Thg. Size 2.375	Wt. 4.7#	d 1.901	Set At 3395
		Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single			Packer Set At 3395
Producing Thru Tubing		Reservoir Temp. °F 60°	Mean Annual Temp. °F 13.2
		Baro. Press. - P _a	
L 3400	H 3400	G _q .7126	% CO ₂ .612
		% N ₂ 8.84	% H ₂ S 0
		Prover	Meter Run 2.0
			Taps flange
County Lea			
State New Mexico			
Duration of Flow			
FLOW DATA			
NO.	Prover Line Size	X	Orifice Size
SI			
1.	2.0	.75	63
2.	2.0	.75	86
3.	2.0	.75	114
4.	2.0	.75	135
5.			
TUBING DATA			
	Press. p.s.i.g.	Temp. °F	
	629		
	378	58	Pkr in well
	269	58	
	193	58	
	161	58	
CASING DATA			
	Press. p.s.i.g.	Temp. °F	
RATE OF FLOW CALCULATIONS			
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m
1	2.709	10.69	76.2
2	2.709	17.25	99.2
3	2.709	27.6	127.2
4	2.709	32.2	148.2
5			
			Flow Temp. Factor Ft.
			1.015
			1.013
			1.006
			1.004
			Gravity Factor F _g
			1.184
			1.184
			1.184
			1.184
			Super Compress. Factor, F _{pv}
			1.016
			1.016
			1.028
			1.047
			Rate of Flow Q, Mcfd
			35
			57
			92
			109
NO.	P _t	Temp. °R	T _t
1.	.11	505	1.28
2.	.19	507	1.28
3.	.33	514	1.30
4.	.53	516	1.31
5.			
			Z
			.969
			.969
			.946
			.912
Gas Liquid Hydrocarbon Ratio NONE Mcf/bbl.			
A.P.I. Gravity of Liquid Hydrocarbons NCNE Deg.			
Specific Gravity Separator Gas .7126 XXXXXXXXXX			
Specific Gravity Flowing Fluid XXXXX			
Critical Pressure 668 P.S.I.A. P.S.I.A.			
Critical Temperature 395 R R			
P _c 672.2 P _c ² 452			
NO.	P _t ²	P _w	P _w ²
1		629.2	396
2		566.2	321
3		384.2	148
4		207.2	43
5			
(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.105$			
(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.058$			
ACF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 115$			
Absolute Open Flow 115 Mcfd @ 15.025			
Angle of Slope 60.5			
Slope, n .5682			
Remarks: Bottom Hole Pressure measured with Amerada Inst. 38062 0-2000# pressure element			
Approved By Commission:		Conducted By: Steve Gurley	Calculated By: Spruell
		Checked By: Ron Gilbreath	