

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

Form O-122
Revised 12-65

JAN 16 1974

Type Test ☐ Initial ☐ Annual ☒ Special					Test Date Jan. 9, 1974		O. C. C.	
Company Coquina Oil Corporation				Contribution El Paso Natural Gas			ARTESIA, OFFICE	
Pool Burton Flat				Formation Morrow			Unit	
Completion Date 8-1-73		Total Depth 11,614		Plug Back TD 11,580		Elevation 3275 K M		Farm or Lease Name Yates State
Csg. Size 7	Wt. 23	d	Set At 11,614	Perforations: From 11,454 To 11,513			Well No. 1	
Tub. Size 2 7/8	Wt. 6.8	d	Set At 11,512	Perforations: From To			Unit Soc. Twp. Rge. 10 21s 27e	
Type Well - Single - Bradinhead - G.G. or G.O. Multiple G.G. Dual				Packer Set At 11,403		County Eddy		
Producing Thru Morrow		Reservoir Temp. *F 192° 11,512		Mean Annual Temp. *F 60		Baro. Press. - P _a 13.2		State New Mexico
L 11,512	H 11,512	Gg .575	% CO ₂ 0	% N ₂ 0	% H ₂ S 0	Prover	Meter Run 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
SI							3650				24 hrs.
1.	4.0"	2.0"		680	21	68	3345	73			90 Min.
2.	4.0"	2.0"		715	31.8	70	3248	84			90 Min.
3.	4.0"	2.0"		755	46	70	3085	85			90 Min.
4.	4.0"	2.0"		780	79	70	2812	86			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	19.81	120.65	693.2	.9924	1.319	1.054	3,297
2	19.81	152.17	728.2	.9905	1.319	1.056	4,159
3	19.81	187.98	768.2	.9905	1.319	1.060	5,157
4	19.81	250.33	793.2	.9905	1.319	1.062	6,880
5							

NO.	P _t	Temp. *R	T _r	Z	Gas Liquid Hydrocarbon Ratio <u>Dry Gas</u> Mcf/bbl.		
					A.P.I. Gravity of Liquid Hydrocarbons <u>None</u> Deg.		
1	1.012	528	1.517	.900	Specific Gravity Separator Gas <u>.575</u> X X X X X X X X		
2	1.064	530	1.522	.896	Specific Gravity Flowing Fluid <u>X X X X X</u>		
3	1.143	530	1.522	.890	Critical Pressure <u>672</u> P.S.I.A. P.S.I.A.		
4	1.180	530	1.522	.886	Critical Temperature <u>348</u> R R		
5							

$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 2.9343$					$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.660$				
$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 18,301$									

Absolute Open Flow <u>18,301</u> Mcfd @ 15.025				Angle of Slope <u>47</u>		Slope, n <u>90876</u>	
Remarks: <u>Pw Substituted For Pt Bottom Hole Pressure Measured With Amerada Instrument</u>							
<u>Element No. 2981 N 4800#</u>							
Approved By Commission:		Conducted By: <u>Gary Carson</u>		Calculated By: <u>John Spruell</u>		Checked By: <u>Gary Carson</u>	