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

Form C-122
Revised 12-1-65

Type Test: ☒ Initial ☐ Annual ☐ Special		Test Date: 1-3-76	
Company: Coquina Oil Corporation	Connection: None		
Pool: La Rica	Formation: Morrow		Unit

Completion Date	Total Depth	Plug Back TD	Elevation	Farm or Lease Name
1-3-76	13,764	13,690	3998 GL	Union State

Csg. Size	Wt.	d	Set At	Perforations:	Well No.
5½	20#		13,764	From 13,614 To 13,664	1

Tbg. Size	Wt.	d	Set At	Perforations:	Unit	Sec.	Twp.	Rge.
2 7/8	6.5#		13,564	From To	K	3	19S	34E

Type Well – Single – Bradenhead – G.G. or G.O. Multiple	Packer Set At	County
Single	13,564	Lea

Producing Thru	Reservoir Temp. °F	Mean Annual Temp. °F	Baro. Press. – P_a	State
Tubing	185 @ 13,400	60	13.2	New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
13,564	13,564	.625	None	None	None		3.068	Flange

	FLOW DATA					TUBING DATA		CASING DATA		Duration
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	of Flow
SI						4393				
1.	3.068	1.50	420	7.5	80	4206	66	Packer		60 Min.
2.	3.068	1.50	420	16.0	85	4190	70	Packer		60 Min.
3.	3.068	1.50	430	63.0	80	4067	65	Packer		60 Min.
4.	3.068	1.50	650	77.0	74	3918	70	Packer		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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	11.13	57.	433.2	.9813	1.265	1.039	818
2	11.13	88.3	433.2	.9768	1.265	1.034	1256
3	11.13	167.	443.2	.9813	1.265	1.040	2400
4	11.13	226	663.2	.9868	1.265	1.059	3325
5							

NO.	P_t	Temp. °R	T_r	Z
1	.65	540	1.47	.926
2	.65	545	1.48	.935
3	.66	540	1.47	.925
4	.99	534	1.45	.891
5				

Gas Liquid Hydrocarbon Ratio 10.987 to 1 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 57 Deg.
Specific Gravity Separator Gas .625 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 670 P.S.I.A. P.S.I.A.
Critical Temperature 368 R R

P_c 665.2 P_c^2 43.102

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		6471.2	41876	1226
2		6358.2	40809	2293
3		6277.2	39403	3699
4		6156.2	37899	5203
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 8.28$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 8.055$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 26783$

Absolute Open Flow 26783 Mcfd @ 15.025 Angle of Slope θ 45.5 Slope, n .987

Remarks: PW substituted for PT Measured with Amerada Instrument No. 34515 – 8000# Element

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
Jerry Sexton	Pyle	Spruell	Pyle