Copy USGS
Form C-122
Revised 9-1-65

NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED

Type Test: [xx] Initial [ ] Annual [ ] Special		Test Date: 9-23-75	OCT 17 1975
Company: Coquina Oil Corp.	Connection: Natural Gas Pipeline Co. of America		O. C. C. ARTESIA, OFFICE
Pool: Avalon	Formation: Upper Morrow		Unit:
Completion Date: 9-20-75	Total Depth: 11,026	Plug Back TD: 10,860	Elevation:
Farm or Lease Name: Arco Federal			

Csg. Size	Wt.	d	Set At	Perforations:	Well No.
5½	17#-23#		11,047	From 10,782 To 10,842	1

Tbg. Size	Wt.	d	Set At	Perforations:	Unit	Sec.	Twp.	Rge.
2 3/8	4.7		10,707	From To	G	8	21S	26E

Type Well – Single – Bradenhead – G.G. or G.O. Multiple	Packer Set At	County
Single	10,707	Eddy

Producing Thru	Reservoir Temp. °F	Mean Annual Temp. °F	Baro. Press. – P_a	State
Tubing	174 @ 10,550	60	13.2	New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
10,707	10,707	.60	0	0	0		3.068	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	3.068					3144	65	PKR		
1.	3.068	.875	864	14.3	67	2947	66	PKR		60 min.
2.	3.068	.875	864	21.4	63	2765	69	PKR		60 min.
3.	3.068	.875	868	31.6	63	2464	72	PKR		60 min.
4.	3.068	1.50	882	3.6	66	2248	74	PKR		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	3.650	111.15394	864.2	.9933	1.291	1.078	561
2.	3.650	135.97646	864.2	.9971	1.291	1.078	689
3.	3.650	165.61642	868.2	.9971	1.291	1.078	839
4.	11.13	56.348913	882.2	.9943	1.291	1.079	869
5.							

NO.	P_t	Temp. °R	T_r	Z
1	1.29	527	1.47	.860
2.	1.29	523	1.46	.860
3.	1.29	523	1.46	.860
4.	1.31	526	1.47	.859
5.				

Gas Liquid Hydrocarbon Ratio	0 Hydrocarbons Mcf/bbl.	
A.P.I. Gravity of Liquid Hydrocarbons	None made Deg.	
Specific Gravity Separator Gas	.60	XXXXXXXXX
Specific Gravity Flowing Fluid	XXXXX	
Critical Pressure	671 P.S.I.A.	P.S.I.A.
Critical Temperature	358 R	R

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OCT 15 1975
U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

P_c 4001.2 P_c^2 16010

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		3764.2	14169	1849
2		3631.2	13186	2824
3		3459.2	11966	4044
4		3351.2	11231	4779
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.350$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.8886$

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

Absolute Open Flow 1,641 Mcfd @ 15.025 | Angle of Slope θ 62 | Slope, n .526

Remarks: PW substituted for PT measured with Amerada Instrument No. 35116, 0-5500 PSI Element

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Richburg	Richburg	Spruell