NEW MEXICO OIL CONSERVATION C MISSION

C-122

Form C-122
Revised 9-1-65

MULTIPO...T AND ONE POINT BACK PRESSURE .EST FOR GAS WELL

RECEIVED

FEB 15 1979

O. C. C.
ARTESIA, OFFICE

Type Test: ☒ Initial ☐ Annual ☐ Special				Test Date: 2-2-79		
Company: Coquina Oil Corp.			Connection			Unit
Pool: Avalon			Formation: Atoka			
Completion Date: 2-2-79	Total Depth: 11,026		Plug Back TD: 10,380	Elevation: 325[illegible]		Farm or Lease Name: Arco Federal
Csg. Size: 5½ / Wt.: 17 & 23 / d:	Set At: 11,047		Perforations: From 10,102	To 10,109		Well No.: 1
Tbg. Size: 2 3/8 / Wt.: 4.7 / d:	Set At: 10015		Perforations: From	To	Unit: -	Sec.: 8 / Twp.: 21S / Rge.: 26E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: 10,015			County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 188 @ 10,015		Mean Annual Temp. °F: 68	Baro. Press. – P_a: 13.2		State: New Mexico

RECEIVED
FEB 13 1979
U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
10015	10015	.63	None	None	None		3,000	Flange

	FLOW DATA				TUBING DATA		CASING DATA		
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	Duration of Flow
SI						2002	36			
1.	3"	x 1.000	675.2	2.42	50	1846	54			60 Min.
2.	3"	x 1.000	675.2	3.13	51	1728	57			60 Min.
3.	3"	x 1.000	661.2	3.78	56	1605	57			60 Min.
4.	3"	x 1.000	635.2	5.4	67	1430	59			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	4.789	40.9226	675.2	1.010	1.253	1.070	262
2.	4.789	45.9715	675.2	1.009	1.253	1.070	298
3.	4.789	49.9934	661.2	1.004	1.253	1.068	320
4.	4.789	58.5669	635.2	.9933	1.253	1.057	369
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	1.01	510	1.39	.874
2.	1.01	511	1.39	.874
3.	.99	516	1.40	.876
4.				
5.				

Gas Liquid Hydrocarbon Ratio: None Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: None Deg.
Specific Gravity Separator Gas: .63 xxxxxxxxx
Specific Gravity Flowing Fluid: xxxxx
Critical Pressure: 670 P.S.I.A. ____ P.S.I.A.
Critical Temperature: 368 R ____ R

P_c 2659.2 P_c^2 7071

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		2481.2	6156	915
2		2177.2	4740	2331
3		2128.2	4529	2542
4		1903.2	3622	3449
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.0502$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.5152$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 559$

Absolute Open Flow: 559 Mcfd @ 15.025 | Angle of Slope θ: 60 | Slope, n: .579

Remarks: Pw Substituted for Pt Measured with Amerada Instrument 40091 0-6000# Element

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