NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
AUG 1 1975
O. C. C.
ARTESIA, OFFICE

Type Test: xx Initial ☐ Annual ☐ Special				Test Date: 6-23-75	
Company: Coquina Oil Corp.			Connection: None		Unit
Pool: Avalon			Formation: Morrow		
Completion Date: 6-23-75	Total Depth: ~~10,920~~ 10973		Plug Back TD: ~~10,892~~ 10925	Elevation: 3242 GL	Farm or Lease Name: A M Federal
Csg. Size: 5½ / Wt.: 17 / d: / Set At: 10,973			Perforations: From 10,774 To 10,834		Well No.: 1
Tbg. Size: 2 7/8 / Wt.: 6.5 / d: / Set At: 10,834			Perforations: From To		Unit: O / Sec.: 8 / Twp.: 21-S / Rge.: 26E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: 10,737		County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 191 @10,804	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2		State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
10,834	10,834	.625	None	None	None		3.068	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						3501				
1.	3.068	1.750	270	10	70	3398	74			60 Min.
2.	3.068	1.750	325	28	68	3245	73			60 Min.
3.	3.068	1.750	400	54	65	2983	73			60 Min.
4.	3.068	1.750	545	71	61	2711	71			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	15.61	53.22	283.2	.9905	1.265	1.026	1,068
2	15.61	97.31	338.2	.9924	1.265	1.030	1,964
3	15.61	149.37	413.2	.9952	1.265	1.038	3,047
4	15.61	199.08	558.2	.9990	1.265	1.050	4,124
5							

NO.	P_t	Temp. °R	T_r	Z
1	.42	530	1.45	.951
2	.50	528	1.45	.942
3	.62	525	1.44	.929
4	.83	521	1.43	.907
5				

Gas Liquid Hydrocarbon Ratio: No Hydrocarbons Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: None Deg.
Specific Gravity Separator Gas: .625 xxxxxxxxx
Specific Gravity Flowing Fluid: xxxxx
Critical Pressure: 671 P.S.I.A. ____ P.S.I.A.
Critical Temperature: 365 R ____ R

P_c 4463.2 P_c^2 19920

NO	P_t	P_w	P_w^2	$P_c^2 - P_w^2$
1		4341.2	18846	1074
2		4174.2	17424	2496
3		3878.2	15040	4880
4		3592.2	12904	7016
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.839$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.0896$

AOF = $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 8618$

Absolute Open Flow: 8618 Mcfd @ 15.025 Angle of Slope θ: 54° Slope, n: .71

Remarks: PW Substituted for PT - Measured with Amerada Instrument No. 35116 - 5500# Element

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	D Richburg	J. Sprudell	B Pyle