NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
JAN 10 1975
O. C. C.
ARTESIA, OFFICE

Type Test: [x] Initial [ ] Annual [ ] Special				Test Date: 10-25-74	
Company: Coquina Oil Corp.		Connection: None			Unit
Pool: ~~Undesignated Atoka~~		Formation: Morrow			
Completion Date: 10-25-74	Total Depth: 12,000	Plug Back TD: 11,671	Elevation: 3374 KB	Farm or Lease Name: State 16	
Csg. Size: 4½ / Wt.: 11.6 / d: / Set At: 11,712		Perforations: From 11,070 To 11,092		Well No.: 1	
Tbg. Size: 2 3/8 / Wt.: 4.7 / d: / Set At: 11,089		Perforations: From To		Unit: / Sec.: 16 / Twp.: 23S / Rge.: 26E	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: 10,963.63		County: Eddy	
Producing Thru: Tubing	Reservoir Temp. °F: 193 @ 11,081	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
11,089	11,089	.620	None	None	None		3.068	Flange

NO.	FLOW DATA: Prover Line Size	X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI						4021				
1.	3.068	1.625	335	3.6	66	3866	70			60 min.
2.	3.068	1.625	335	9.5	70	3732	71			60 min.
3.	3.068	1.625	360	16.6	70	3577	72			60 min.
4.	3.068	1.625	360	34.5	68	3426	72			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	13.24	35.40	348.2	.9943	1.270	1.031	612
2	13.24	57.51	348.2	.9905	1.270	1.031	988
3	13.24	78.71	373.2	.9905	1.270	1.033	1354
4	13.24	113.47	373.2	.9924	1.270	1.033	1956
5							

NO.	P_r	Temp. °R	T_r	Z
1	.52	526	1.44	.940
2	.52	530	1.45	.940
3	.55	530	1.45	.937
4	.55	528	1.45	.937
5				

Gas Liquid Hydrocarbon Ratio: No Hydrocarbons Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: None made Deg.
Specific Gravity Separator Gas: .620 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 671 P.S.I.A. P.S.I.A.
Critical Temperature: 365 R R

P_c 5013.2 P_c^2 25,132

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		4953.2	24534	598
2		4856.2	23583	1549
3		4747.2	22536	2596
4		4491.2	20171	4961
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 5.0659$ (1a) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.6303$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 5.145$

Absolute Open Flow: 5.145 Mcfd @ 15.025 Angle of Slope θ: 59° Slope, n: .596

Remarks: PW substituted for PT - Measured with Amerada instrument No. 35116 - 5500 # Element

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	J. Spruell	J. Spruell	CA Mayo