File ✓ 425 C-122 File

Form C-122
Revised 9-1-65

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

RECEIVED
SEP 26 1980
O. C. D.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special — Test Date: 9-15-80

Company: Coquina Oil Corporation ✓	Connection: None			Unit
Pool: Wildcat	Formation: Lower Morrow			
Completion Date: 9-15-80	Total Depth: 12,550	Plug Back TD: 12,500	Elevation: 3064KB	Farm or Lease Name: Carlsbad Pecos
Csg. Size: 5 9 5/8 / Wt.: 18. 54.50 / d: / Set At: 12,550 10,500	Perforations: From 12,436 To 12,490			Well No.: 1
Tbg. Size: 2 7/8 / Wt.: 6.50 / d: / Set At: 12,349	Perforations: From To			Unit: J / Sec.: 29 / Twp.: 22-S / Rge.: 28E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single	Packer Set At: 12,349.49			County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 192 @ 12,349	Mean Annual Temp. °F: 68	Baro. Press. – P_a: 13.2	State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
12,349	12,349	.578	1.21	.30	.07		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					4512				
1.	3.068 .875	317	3	113	4284	75	Packer		60 min.
2.	3.068 .875	324	6	92	4061	76	in		60 min.
3.	3.068 .875	561	17	100	3494	76	Well		60 min.
4.	3.068 .875	573	45	87	2501	75			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	31.47	330.2	.9526	1.315	1.020	147
2	3.650	44.98	337.2	.9706	1.315	1.021	214
3	3.650	98.80	574.2	.9636	1.315	1.034	472
4	3.650	162.42	586.2	.9750	1.315	1.035	787
5							

NO.	P_t	Temp. °R	T_r	Z
1.	.49	573	1.64	.961
2.	.50	552	1.58	.960
3.	.85	560	1.60	.935
4.	.87	547	1.56	.933
5.				

Gas Liquid Hydrocarbon Ratio: None Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: None Made Deg.
Specific Gravity Separator Gas: .578 XXXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 672 P.S.I.A. ____ P.S.I.A.
Critical Temperature: 350 R ____ R

P_c 5687.2 P_c^2 32,344

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		5419.2	29368	2976
2		5170.2	26731	5613
3		4463.2	19920	12424
4		3088.2	9537	22807
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.418$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.3122$

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1033$

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Absolute Open Flow: 1033 Mcfd @ 15.025 — Angle of Slope θ: 54 — Slope, n: .7295

Remarks: PW substituted for PC - Measured with Amerada Instrument No. 37209 0-7000# Element

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