NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
MAR 3 1975
O. C. C.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special			Test Date: 2-17-75	
Company: Coquina Oil Corp.	Connection: None			Unit
Pool: Wildcat	Formation: Permo Penn			
Completion Date: 1-30-75	Total Depth: 10,~~403~~ 405	Plug Back TD: 10,399	Elevation: 3426 KB	Farm or Lease Name: Jake State
Csg. Size: 4½ / Wt.: 11.6 / d: / Set At: 10,403		Perforations: From 10,214 To 10,248		Well No.: 1
Tbg. Size: 2 3/8 / Wt.: 4.7 / d: / Set At: 10,159		Perforations: From 10,162 To 10,168		Unit: J / Sec.: 36 / Twp.: 24S / Rge.: 26E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: 10,162		County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 201 @ 10,211	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
10,159	10,159	.6668	0	0	0		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						5884				
1.	3.068	1.625	195	24	70	5662	52			60 min.
2.	3.068	1.625	410	26	74	5397	60			60 min.
3.	3.068	1.625	525	78	50	4730	61			60 min.
4.	3.068	1.625	780	84	44	4089	54			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	70.69	208.2	.9905	1.224	1.020	1,157
2.	13.24	104.90	423.2	.9868	1.224	1.043	1,750
3.	13.24	204.89	538.2	1.010	1.224	1.064	3,568
4.	13.24	258.13	793.2	1.016	1.224	1.114	4,735
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	.31	530	1.39	.961
2.	.63	534	1.40	.919
3.	.80	510	1.34	.883
4.	1.19	504	1.32	.806
5.				

Gas Liquid Hydrocarbon Ratio 38.9 to 1 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 62.7 Deg.
Specific Gravity Separator Gas .6668 xxxxxxxxx
Specific Gravity Flowing Fluid xxxxx
Critical Pressure 669 P.S.I.A. P.S.I.A.
Critical Temperature 382 R R

P_c 7156.2 P_c^2 51211

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		6932.2	48055	3156
2		6627.2	43920	7291
3		6009.2	36110	15101
4		5425.2	29433	21778
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.35$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.272$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 10,758$

Absolute Open Flow 10,758 Mcfd @ 15.025 Angle of Slope θ 47.5° Slope, n .93

Remarks: PW Substituted for PT Measured with Amerada Inst. No. 34515 - 8500# Element

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	J. Arnold	J. Arnold	B Fyke