NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
OCT 19 1982
O. C. D.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 9-24-82	
Company: Coquina Oil Corp.			Connection: None		Unit
Pool: ~~South East~~ Malaga			Formation: Atoka		
Completion Date: 9-24-82	Total Depth: 12,983		Plug Back TD: 12,915	Elevation: 2,972 GL	Farm or Lease Name: Craft
Csg. Size: 7-5/8 / Wt.: 39 / d: / Set At: 12,099'			Perforations: From 11,868 To 11,884		Well No.: 1
Tbg. Size: 2-7/8 / Wt.: 6.5 / d: / Set At: 11,808			Perforations: From To		Unit: J / Sec.: 13 / Twp.: 24-S / Rge.: 28-E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: 11,808		County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 197 @ 11,876	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
11,808	11,808	.5734	0	0	0		4.026	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						4,924				
1.	4.026	1.50	305	7	68	4,822	84			60 Min.
2.	4.026	1.50	500	12	61	4,709	82			60 Min.
3.	4.026	1.50	510	66	90	4,277	78			60 Min.
4.	4.026	1.50	770	69	68	3,799	80			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	10.84	47.20	318.2	.9924	1.321	1.025	688
2.	10.84	78.48	513.2	.9990	1.321	1.040	1,168
3.	10.84	185.83	523.2	.9723	1.321	1.031	2,668
4.	10.84	232.47	783.2	.9813	1.321	1.062	3,469
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	.47	528	1.52	.952
2.	.76	521	1.51	.924
3.	.78	550	1.59	.940
4.	1.17	528	1.52	.887
5.				

Gas Liquid Hydrocarbon Ratio -- Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons -- Deg.
Specific Gravity Separator Gas .5672 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 672 P.S.I.A. ____ P.S.I.A.
Critical Temperature 346 R ____ R

P_c 6190.2 P_c^2 38319

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		6084.2	37,017	1,302
2		5957.2	35,488	2,831
3		5486.2	30,098	8,221
4		4950.2	24,504	13,815
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.7737$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.0544$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 7126$

Absolute Open Flow 7126 Mcfd @ 15.025 Angle of Slope θ 55 Slope, n .706

Remarks: PW Substituted for PT - Measured with Amerada Instrument 34815 - 0-8,000# Element

Approved By Commission:	Conducted By:	Calculated By:	Checked By: