12-2 file

EW MEXICO OIL CONSERVATION CC SSION

Form C-122
Revised 9-1-65

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED
MAY 27 1977
O. C. C.
ARTESIA, OFFICE

Type Test: [x] Initial [ ] Annual [ ] Special				Test Date: 5-19-77	
Company: Coquina Oil Corp.		Connection:			
Pool: ~~Undesignated~~ Quito-Penn.		Formation: Strawn + Atoka			
Completion Date: 5-19-77	Total Depth: 11,515	Plug Back TD: 10,540		Elevation: 3298 KB	Farm or Lease Name: Bass State
Csg. Size: 4½ / Wt.: 13.5 / d: / Set At: 10560		Perforations: From 10258 To 10480			Well No.: 1
Tbg. Size: 2 3/8 / Wt.: 4.7 / d: / Set At: 10,350		Perforations: From To			Unit: E / Sec.: 32 / Twp.: 19S / Rge.: 29E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple		Packer Set At: 10,350			County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 189@ 10,369	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
10,350	10,350	.664	.30	.99	None		X	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						3031		3034		
1.	3.068	1.50	250	8.2	64	2964	72	3002		60 min.
2.	3.068	1.50	280	28.0	60	2874	70	2925		60 min.
3.	3.068	1.50	405	32.2	62	2711	72	2840		60 min.
4.	3.068	1.50	630	59.0	66	2422	72	2675		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	11.13	46.46	263.2	.9962	1.227	1.026	649
2.	11.13	92.21	293.2	1.0000	1.227	1.029	1298
3.	11.13	116.04	418.2	.9981	1.227	1.041	1647
4.	11.13	194.80	643.2	.9943	1.227	1.066	2820
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	.39	524	1.39	.950
2.	.44	520	1.38	.944
3.	.62	522	1.38	.922
4.	.96	526	1.39	.880
5.				

Gas Liquid Hydrocarbon Ratio 11,125 to 1 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 59.1 Deg.
Specific Gravity Separator Gas .664 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 670 P.S.I.A. P.S.I.A.
Critical Temperature 378 R R

P_c 4341.2 P_c^2 18846

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		4280.2	18320	526
2		4184.2	17508	1338
3		4114.2	16927	1919
4		3877.2	15033	3813
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 4.9426$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3.2208$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 9083$

Absolute Open Flow 9,083 Mcfd @ 15.025 Angle of Slope θ 54° Slope, n .7355

Remarks: PW substituted for PC - Measured with Amerada instrument #40091 - 0-6000# Element

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