

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

Form C-122
Revised 9-1-65

C/SF

C-122

Type Test ☒ Initial FOUR POINT ☐ Annual ☐ Special						Test Date 3-1-82	
Company COQUINA Oil Co.				Connection AIR NEW WELL			
Pool Malaga 71				Formation MORROW		Unit --	
Completion Date 3-1-82		Total Depth 12,380 12,750		Plug Back TD 12,645 12,700		Elevation 3002 KB	
Casing Size 5.000		Wt. 18.0		d 4.276		Set At 11,850 12,300	
Tubing Size 2.875		Wt. 6.5		d 2.441		Set At 12,330 12,300	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple						Packer Set At 12,292	
SINGLE						EDDY	
Producing Thru TUBING		Reservoir Temp. °F 198 @ 12,292		Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2	
L 12,489		H 12,489		Gg 0.614		% CO ₂ 4.63	
						% N ₂ 1.86	
						% H ₂ S	
						Prover	
						Meter Run 4.028	
						Taps FLANGE	
FLOW DATA						TUBING DATA	
B.H.P. DATA						Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.
						°F	
SI							4293
1.	4.028	X	.750	360	22.0	52	4002
2.	4.028	X	.750	400	43.5	60	3769
3.	4.028	X	.750	400	66.5	63	3502
4.	4.028	X	.750	460	80.0	64	3215
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, Mc/d
1	2.7290	90.61	373.2	1.0078	1.2762	1.0309	328
2	2.7290	134.07	413.2	1.0000	1.2762	1.0314	482
3	2.7290	165.76	413.2	.9971	1.2762	1.0314	594
4	2.7290	194.57	473.2	.9962	1.2762	1.0358	699
5							
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mc/d/bbl.		
1	.54	512	1.47	.941	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.		
2	.60	520	1.50	.940	Specific Gravity Separator Gas .6140 X X X X X X X X		
3	.60	523	1.50	.940	Specific Gravity Flowing Fluid X X X X X		
4	.69	524	1.51	.932	Critical Pressure 688 P.S.I.A. _____ P.S.I.A.		
5					Critical Temperature 348 R _____ R		
P _c 5505.2 P _c ² 30307.2					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.6431$		
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.9612$		
1		5256.2	27627.6	2680.0	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1,165.0$		
2		4954.2	24544.1	5763.0			
3		4689.2	21988.6	8319.0			
4		4516.2	20396.1	9911.0			
5							
Absolute Open Flow 1,165.0 Mc/d @ 15.025					Angle of Slope @ 62.5		Slope, n .5210
Remarks: BOTTOM HOLE PRESSURES MEASURED WITH AMERADA PRESSURE ELEMENTS.							
Approved By Commission:		Conducted By: RICHARD TOWNLEY		Calculated By: BENNETT - CATHEY		Checked By:	