

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

Form C-172
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 5/17/78	
Company Continental Oil Company				Connection None		
Pool Gobernador				Formation Pictured Cliff		Unit
Completion Date 5/6/78		Total Depth 3750		Plug Back TD		Elevation 6603
Casing Size 4 1/2		Wt. 10.5	d 4.052	Set At 3750	Perforations: From 3376 To 3604	
tubing Size 2 3/8		Wt. 4.7	d 1.995	Set At 3589	Perforations: From open ended	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single Gas					Packer Set At none	
Producing Thru T69		Reservoir Temp. °F 110° @ 3758		Mean Annual Temp. °F 50		Baro. Press. - P _a 12.2
Prover 3376		H 3589	Gg 1690	% CO ₂	% N ₂	% H ₂ S
Prover		Meter Run		Taps		

FLOW DATA						TUBING DATA		CASING 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.	Temp. °F	Press. p.s.i.g.	
SI							908	60	910	60
1.	3/4" choke nipple		43				43	77°	330	60°
2.										
3.										
4.										
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, F _{pv}	Rate of Flow Q, Mcfd
1	11.00		55	.9868	1.204		719
2.							
3.							
4.							
5.							

NC.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

F. 9.22 P _c ² 550034				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		55	7543	242241
2.				
3.				
4.				
5.				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.009$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 724^3$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.003$

Absolute Open Flow	724	Mcfd @ 15.025	Angle of Slope @	Slope, n = .85
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Remarks:

Approved By Commission:	Conducted By: D.L. Moore	Calculated By: D.L. Moore	Checked By:
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AMOSS, AZTEC (2) - USGS, DURANGO (2) - NUPL, S.L.C. - BEA - FILE