

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

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 12-21-71	
Company Continental Oil Company				Connection Unconnected			
Pool Otero				Formation Chacra		Unit	
Completion Date 12-21-71		Total Depth 5268' RB		Plug Back TD 5234' RB		Elevation 6584' GRD 6596' RB	
Csg. Size 5 1/2		Set At 5267' RB		Perforations: From 3666' To 3670'		Farm or Lease Name AXI Apache "J"	
Tbg. Size 1 1/4"		Set At 3779' RB		Perforations: From 3672' To 3680'		Well No. 19	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas-Gas Dual				Packer Set At 4894' RB		County Rio Arriba	
Producing Thru Tubing		Reservoir Temp. °F 50°		Mean Annual Temp. °F 50°		Baro. Press. - P _a 12.2	
L 3767' GRD		H 3767' GRD		G _g .680		Taps Choke	
G _g .680		% CO ₂ ----		% N ₂ ----		% H ₂ S ----	
L 3767' GRD		H 3767' GRD		G _g .680		Taps Choke	

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.		Temp. °F
1.	3/4" Choke Nipple			117		44°	117		708		
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 F _g	Super Compress. Factor F _{pv}	Rate of Flow Q, Mcfd
1	9.604		129.2	1.016	1.213	1.015	1,552
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °F	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.		
			A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.		
			Specific Gravity Separator Gas _____		
			Specific Gravity Flowing Fluid _____		
			Critical Pressure _____ P.S.I.A.		
Critical Temperature _____ °F		P.S.I.A.		P.S.I.A.	

P _c 872.2	P _c ² 760.7	P _w 720.2	P _w ² 518.7	P _c ² - P _w ² 242.0
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		720.2	518.7	242.0
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.1434$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3,663$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.3607$

Absolute Open Flow 3,663 Mcfd @ 15.025	Angle of Slope θ _____	Slope, n .75
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Remarks:			
Approved By Commission:	Conducted By: E.B. Errett	Calculated By: E.B. Errett	Checked By: J.A. Mazza