

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

Form C-150
Revised 1-6-72

FEB 7 1972
OIL CON. COM.
DIST. 3

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 1-9-72					
Company Continental Oil Company						Connection Unconnected					
Pool Otero						Formation Chacra					
Completion Date 12-30-71			Total Depth 5203' KB			Plug Back TD 5166' KB		Elevation 6524' Grd		Farm or Lease Name AXI Apache "J"	
Csg. Size 5 1/2"	Wt. 14#	d 5.012	Set At 5203' KB	Perforations: From 3566' To 3586' KB				Well No. 22			
Tbg. Size 1.66"	Wt. 2.40	d 1.380	Set At 3580' Grd	Perforations: From Open To Ended				Unit Sec. Twp. Rge. L 6 25 5			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas - Gas Dual						Packer Set At 4794' GR				County Rio Arriba	
Producing Thru Tubing		Reservoir Temp. °F 107° @ 3566' Grd		Mean Annual Temp. °F 50°		Baro. Press. - P _a 12.2		State New Mexico			
L 3580'	H 3580'	Gg .680	% CO ₂ ----	% N ₂ ----	% H ₂ S ----	XXXXXXXXXXXXXXXXXXXX 3/4" Choke Nipple					

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	
SI							520	50°	805	50°	S-I 16 Days
1.	3/4" Choke Nipple			55		47°	55°	47°	307	47	3 Hrs.
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, Fpv	Rate of Flow Q, Mcfd
1	9.604		67.2	1.013	1.213	1.000	793
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ XXXXXXXXXX
3.					Specific Gravity Flowing Fluid _____ XXXXXX
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _c 817.2	P _c ² 667.8		
NO.	P _t ²	P _w ²	P _c ² - P _w ²
1	319.2	101.9	565.9
2			
3			
4			
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \underline{1.1801}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{1.1322}$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{898}$

Absolute Open Flow 898 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: D.B. Barnes
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