

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 7-5-77	
Company Continental Oil Co.				Connection None		
Pool Ballard				Formation Pictured Cliffs		Unit
Completion Date 6-23-77		Total Depth 2815		Plug Back TD 2646		Elevation 6733'
Farm or Lease Name AXI Apache D		Well No. 4				
Csq. Size 2 7/8	Wt. d	Set At 2791	Perforations: From 2517 To 2570		Unit Sec. Twp. Rye. 10 19 24N 4W	
Tbg. Size	Wt. d	Set At	Perforations: From To			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas				Packer Set At		County Rio Arriba
Producing Thru Csg.		Reservoir Temp. °F 100 @ 2500'		Mean Annual Temp. °F 50°		State N. M.
Baro. Press. - P _a 12.2						
H 2544	G _g 2544	% CO ₂ .69	% 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.		Temp. °F
1.	3/4" choke nipple		21						510	50°	34.0
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		73	1.01	1.204		253
2.							
3.							
4.							
5.							

NO.	P _f	Temp. °R	T _f	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

$P_c = 572$ $P_c^2 = 272,484$				
NO.	P _f ²	P _w	P _w ²	P _c ² - P _w ²
1.		893	7974	264510
2.				
3.				
4.				
5.				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.03$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.03$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 876$$

Absolute Open Flow	876	Mcfd @ 15.025	Angle of Slope θ	Slope, n
Remarks:				

Approved By Commission:	Conducted By: M. Burrows	Calculated By: F. T. Chavez	Checked By:
-------------------------	-----------------------------	--------------------------------	-------------

NMOCC-AZTEC (2)* - BEA - FILE