

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 12-23-77			
Company Cotton Petroleum Corp.				Connection Waiting on pipeline			
Pool So. Blanco P.C.				Formation Pictured Cliffs		Unit	
Completion Date 12-2-77		Total Depth 3180'		Plug Back TD 3011'		Elevation 6828'KB	
Farm or Lease Name Apache				Well No. 24			
Csg. Size 4.500	Wt. 10.50	d 4.052	Set At 3050'	Perforations: From 2922' To 2967'			
Tbg. Size 1.660	Wt. 2.40	d 1.380	Set At 2928'	Perforations: From Open To Ended			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None		County Rio Arriba	
Producing Thru Tubing		Reservoir Temp. °F 92 @ 3180'		Mean Annual Temp. °F 60		Baro. Press. - P _a 12.0	
State New Mexico							
L 2928	H 2928	G _g 0.60	% 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.		Temp. °F
SI							1,010		1030		7 days
1.	3/4	THC					250		875		
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	12.3650		262	1.0000	1.0000	1.0000	3,240
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

NO.	P _t ²	P _w ²	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$ 3.6313	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$ 2.9926
1		887	786,769	298,995		
2						
3						
4						
5						

AOFP = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$ **9.696**

9.696

0.85

Absolute Open Flow 9,696 Mcfd @ 15.025	Angle of Slope @ 0.85
Remarks:	

Approved By Commission:	Conducted By: Roger McCown	Calculated By: Ewell N. Walsh	Checked By:
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