

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 8-18-80	
Company Cotton Petroleum Corporation				Connection El Paso Natural Gas Co.	
Pool South Blanco				Formation Pictured Cliff	
Completion Date 8-4-1980		Total Depth		Plug Back TD	
Elevation		Farm or Lease Name Apache			
Csg. Size 4.500	Wt. 10.5	d 4.052	Set At 4072	Perforations: From 2964 To 2996	
Thq. Size None	Wt.	d	Set At	Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G.G. Dual				Packer Set At 3810	
Producing Thru Casing		Reservoir Temp. °F #		Baro. Press. - P _g 12 psia (est)	
Mean Annual Temp. °F		County Rio Arriba			
L	H	Gg .650 est	% 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	14 days								840	
1.	2 inch	.750	70						70	60°
2.										
3.										
4.										
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12,3650		82	1.000	.9608	1.012	988
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.										
2.										
3.										
4.										
5.										

P _c 852 P _c ² 725,904		(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.00945$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.00803$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	
1		82	6799	719,105	
2		Calculated			
3					
4					
5					

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 994$

Absolute Open Flow	994	Mcf @ 15.025	Angle of Slope θ	Slope, n .85
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Remarks: Tested in conjunction with the initial packer leakage test

Approved By Commission:	Conducted By: R.F. Elledge	Calculated By: Joe F. Elledge	Checked By: Mr. Howard Davis
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