

**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 9-3-80			
Company Cotton Petroleum Corporation				Connection El Paso					
Pool South Blanco				Formation Pictured Cliff				Unit	
Completion Date 8-20-80		Total Depth 4067		Plug Back TD 4044		Elevation 6831		Farm or Lease Name Apache	
Csg. Size 4.500	Wt. 10.5	d 4.052	Set At 4080	Perforations: From 2976 To 3043		Well No. 30			
Thq. Size	Wt.	d	Set At	Perforations: From To		Unit Sec. Twp. Rge. J 3 24 4			
Type Well - Single - Brdenhead - G.G. or G.O. Multiple Gas--Gas--Dual						Packer Set At 3812		County Rio Arriba	
Producing Thru Casing		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _g 12 psia-est		State New Mexico	
L	H	G _g .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.		Temp. °F
SI	14 days		750						862		
1.	2 inch		123						123	60°	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 F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.3650		135	1.000	.9608	1.012	1623
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	Deq.
2.					Specific Gravity Separator Gas	XXXXXX
3.					Specific Gravity Flowing Fluid	XXXXXX
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

P _c 874	P _c ² 763,876	
NO.	P _r ²	P _w ²
1	153	23,409
2		
3	calculated	
4		
5		

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0316$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0268$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.666$

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DIST. S

Absolute Open Flow	1666	Mcf/d @ 15.025	Angle of Slope @	Slope, n .85
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Remarks: Tested in conjunction with initial Packer Leakage Test.

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