

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 5-15-80	
Company Cotton Petroleum Corporation				Connection El Paso Natural Gas	
Pool Undesignated				Formation Chacra	
Completion Date 5-8-80		Total Length 4067		Perforations From 3840 To 3949	
Perforations From 3840 To 3949		Elevation 6831		Form or Lease Name Apache	
Perf. Size 4.5	Wt. 10.5	d 4.052	Set At 4080	Well No. 30	
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 3838	Unit J Sec. 3 Twp. 24N Rge. 4W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None	
Producing Thru Tubing		Reservoir Temp. °F @		Mean Annual Temp. °F 12 psia (est)	
L H		Gg .60(est)		County Rio Arriba	
State New Mexico		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	7 days						886		889		
1.	2 inch	.750	26				26	540			3 hours
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	12.3650		38	1.0058	1.000	1.007	476
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	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.										

NO.	P _r	P _w	P _c ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1	901	183	811801	778,312	1.0430	1.03209
2.						
3.						
4.						
5.						

Absolute Open Flow 491 Mcfd @ 15.025				Angle of Slope .75	
Remarks: Flared for 3 hours. Slight show of water and condensate.					
Approved By Commission		Conducted By: Joe F. Elledge		Calculated By: Joe F. Elledge	
				Checked By: Mr. Howard Davis	