NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: [XX] Initial [ ] Annual [ ] Special				Test Date	
Company: Cotton Petroleum Corp.		Connection: Waiting on Pipeline			
Pool: So. Blanco, P.C.		Formation: Pictured Cliffs		Unit	
Completion Date: 9-6-77	Total Depth: 3275'	Plug Back TD: 3183'	Elevation: 6930 KB	Farm or Lease Name: Apache	
Csg. Size: 4.500 / Wt.: 10.50 / d: 4.052 / Set At: 3240		Perforations: From 3078' To 3119'		Well No.: 20	
Tbg. Size: 1.660 / Wt.: 2.40 / d: 1.380 / Set At: 3087		Perforations: From open To ended		Unit: B / Sec.: 4 / Twp.: 24N / Rge.: 4W	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: single		Packer Set At: none		County: Rio Arriba	
Producing Thru: tubing	Reservoir Temp. °F: 96 @ 3275	Mean Annual Temp. °F: ----	Baro. Press. – P_a: 12.0	State: New Mexico	

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
3087	3087	0.600	----	----	----	----	----	----

	FLOW DATA				TUBING DATA		CASING DATA		
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	Duration of Flow
SI					1000		1030		8 day
1.	3/4" T.H.C.				98		730		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 Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	12.3650		110	1.0000	1.0000	1.0000	1,360
2.							
3.							
4.							
5.							

NO.	P_t	Temp. °R	T_r	Z
1.				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____ XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 1042 P_c^2 1,085,764

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		742	550,564	535,200
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.0287$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.8244$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2,481$

Absolute Open Flow 2,481 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n 0.85

Remarks: _____

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