NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 9-27-77	
Company: COTTON PETROLEUM CORP.		Connection: Waiting on Pipeline			
Pool: So. Blanco P.C.		Formation: Pictured Cliffs			Unit
Completion Date: 9-10-77	Total Depth: 3012'		Plug Back TD: 3010	Elevation: 6782'KB	Farm or Lease Name: Apache
Csg. Size: 4.500 / Wt.: 10.50 / d: 4.052 / Set At: 3012'			Perforations: From 2897' To 2984'		Well No.: 19
Tbg. Size: 1.660 / Wt.: 2.40 / d: 1.380 / Set At: 2925'			Perforations: From Open To Ended		Unit: M / Sec.: 3 / 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: 95 @ 3012'	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
2925	2925	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					960		975		8 Da.
1.	3/4" THC				50		300		3 Hr.
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		62	1.0000	1.0000	1.0000	767
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 987 P_c^2 974,169

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		312	97,344	876,825
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1110$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0936$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 839$

SEP 28 1977
OIL CON. COM.
DIST. 3

Absolute Open Flow 839 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	