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	
Company: Aztec Oil & Gas Company	Connection: Southern Union Gathering			
Pool: Blanco	Formation: Mesa Verde		Unit	
Completion Date: 5-19-77	Total Depth: 5064'	Plug Back TD: 4992'	Elevation: 5933' GR	Farm or Lease Name: Culpepper Martin
Csg. Size: 7.000 Wt. 20# d 6.456 Set At 2529' / 4.500 11.60# 4.000 2352'-4997'	Perforations: From 4619' To 4869'			Well No.: #12-A
Tbg. Size: 2.375 Wt. 4.7# d 1.995 Set At 4868'	Perforations: From To			Unit: I Sec. 20 Twp. T32N Rge. R12W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: ----		County: San Juan
Producing Thru: Tbg	Reservoir Temp. °F: @	Mean Annual Temp. °F:	Baro. Press. – P_a: 12.2	State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
		.700						

	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					875		875		
1.	2" X 3/4"				356		749		1 hr
2.					335		713		2 hrs
3.					319		685		3 hrs
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	12.365		331.2	1.0000	.9258	1.0000	3791
2.							
3.							
4.							
5.							

NO.	P_r	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 887.2 P_c^2 787,124

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		697.2	486,088	301,036
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.6147$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.0562$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 7,795$

Absolute Open Flow 7,795 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n .75

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Cliff Pistole	James Smith	Curtis C. Larson