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: 5-21-77	Total Depth: 5126'	Plug Back TD: 5081'	Elevation: 6050' GR	Farm or Lease Name: Culpepper Martin
Csg. Size: 7.000 / 4.500	Wt.: 20# / 11.60#	d: 6.456 / 4.000	Set At: 2757' / 2585-5088'	Perforations: From 4821' To 5031'
Well No.: #15-A				
Tbg. Size: 2.375	Wt.: 4.7#	d: 1.995	Set At: 5035'	Perforations: From To
Unit Sec. Twp. Rge.: I 21, T32N, 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					849		847		
1.	2" X 3/4"				356		734		1 hr
2.					343		703		2 hrs
3.					328		681		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		340.2	1.0000	.9258	1.0000	3894
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 _____ XXXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 861.2 P_c^2 741,665

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		693.2	480,526	261,139
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.8401$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.1878$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 8,519$

Absolute Open Flow 8,519 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. Parsons