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: 5-7-77	
Company: Aztec Oil & Gas Company		Connection: Southern Union Gathering		
Pool: Blanco		Formation: Mesa Verde		Unit
Completion Date: 4-20-77	Total Depth: 5487'	Plug Back TD: 5439'	Elevation: 6287 GR	Farm or Lease Name: Patterson "A" Com
Csg. Size: 7.000 / 4.500 — Wt.: 20.00# / 11.60# — d: 6.456 / 4.000 — Set At: 3079' / 2911-5440		Perforations: From 5093' To 5358'		Well No.: #1-A
Tbg. Size: 2.375 — Wt.: 4.70 — d: 1.995 — Set At: 5365'		Perforations: From To		Unit: A — Sec.: 2 — Twp.: 31N — Rge.: 12W
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: .700	% CO_2	% N_2 — % H_2S — Prover — Meter Run — Taps

	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 shut-in
SI						648		801		168 hrs
1.	2"	X 3/4"				314		726		1 hr
2.						300		698		2 hrs
3.						292		674		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		304.2	1.0000	.9258	1.0000	3482
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 813.2 P_c^2 661,294

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		686.2	470,870	190,424
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.4727$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.5439$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 8,858$

Absolute Open Flow 8,858 Mcfd @ 15.025 — Angle of Slope θ _____ — Slope, n .75

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	James Smith		