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: 5-9-77	Total Depth: 5040'	Plug Back TD: 5001'	Elevation: 5937' GR	Farm or Lease Name: Culpepper Martin
Csg. Size: 7.000 / 4.500 — Wt.: 20# / 11.60# — d: 6.456 / 4.000 — Set At: 2615' / 2474-5010' — Perforations: From 4648 To 4949				Well No.: #11A
Tbg. Size: 2.375 — Wt.: 4.7# — d: 1.995 — Set At: 4938' — Perforations: From To				Unit: I — Sec.: 29 — 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	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI							805		830		
1.	2"	X	3/4"				333		730		
2.							317		704		
3.							303		679		
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		315.2	1.0000	.9258	1.0000	3608
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 _____ XXXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 842.2 P_c^2 709,301

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		691.2	477,757	231,544
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.0634$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.3155$

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 8354$

Absolute Open Flow 8354 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: _____

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