

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test ☒ 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 4-13-77		Total Depth 5240'		Plug Back TD 5238'		Elevation 6060 KB		Farm or Lease Name Grenier
Original 4.500	Wt. 20.00#	d 6.456	Set At 2891	Perforations: From To			Well No. #2-A	
Tbg. Size 2.375	Wt. 4.70	d 1.995	Set At 5156 KB	Perforations: From 4914' To 5153'			Unit Sec. Twp. Rgs. N 18 31N 11W	
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 ₂ S	Prover	Meter Run	Taps
	.700							

FLOW DATA						TUBING DATA		CASING DATA		Duration of shut-in	
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
SI							925		950		168 hrs
1.	2"	X	3/4"				365		778		
2.							347		739		
3.							336		710		
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, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		348.2	1.0000	.9258	1.0000	3986
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

$P_c = 962.2$ $P_c^2 = 925,829$				
NO	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		722.2	521,573	404,256
2				
3				
4				
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 2.2902$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 7,421$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.8617$$

Absolute Open Flow <u>7,421</u> Mcfd @ 15.025		Angle of Slope <u>75.3</u> Slope, n <u>.75</u>
Remarks: _____		
Approved By Commission:	Conducted By: <u>James Smith</u>	Calculated By:
		Checked By: