

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 4-4-77					
Company Aztec Oil & Gas Company					Connection Southern Union Gathering					
Pool Blanco					Formation Mesa Verde					
Completion Date 3-16-77			Total Depth 5552		Plug Back TD 5511		Elevation 6324 GL		Farm or Lease Name Davis	
Csg. Size 7.000 4.500	Wt. 20# 10.50#	d 6.456 4.052	Set At 3160 3036-5542	Perforations: From 5155 To 5463				Well No. #3-A		
Tbg. Size 2.375	Wt. 4.7 #	d 1.995	Set At 5450	Perforations: From To				Unit Sec. Twp. Rge. M 1 - 31N - 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 ₂ S	Prover	Meter Run	Taps		

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
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.	
SI							730		698	
1.	2" X 3/4"						273		645	1 Hr.
2.							262		629	2 Hrs.
3.							260		618	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		272.2	1.0000	.9258	1.0000	3116
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 742.2 P _c ² 550,861				
NO	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		630.2	397,152	153,709
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.5838$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 8116$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.6047$

Absolute Open Flow 8116 _____ Mcfd @ 15.025		Angle of Slope θ _____	Slope, n .75
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Remarks: _____

Approved By Commission:	Conducted By: Norman Harland	Calculated By: 	Checked By:
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