

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 4-7-77	
Company Aztec Oil & Gas Company			Connection Southern Union Gathering		
Pool Blanco			Formation Mesa Verde		Unit
Completion Date 3-25-77		Total Depth 5547'		Plug Back TD 5515'	Elevation 6296' GL
Farm or Lease Name Davis					
Csg. Size 7.000	Wt. 20#	d 6.456	Set At 3160	Perforations: From 5132' To 5391'	
4.500	11 60#	d 4.000	2977-5507		
Tbg. Size 2.375	Wt. 4.7#	d 1.995	Set At 5258	Perforations: From - To -	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At	
Producing Thru Tbg		Reservoir 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							693		681	
1.	2"	X	3/4"				230		580	1 hr.
2.							220		566	2 hrs.
3.							208		542	3 hrs.
4.										
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		220.2	1.0000	.9258	1.0000	2521
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _t	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 705.2 P _c ² 497,307				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		554.2	307,138	190,169
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.6151$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 5,184$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.0564$

Absolute Open Flow	5,184	Mcf/d @ 15.025	Angle of Slope θ	Slope, n .75
Remarks:				

Approved By Commission:	Conducted By: Norman Harland	Calculated By: <i>James Smith</i>	Checked By: <i>[Signature]</i>
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