

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 5-23-77	
Company Aztec Oil & Gas Company				Connection Southern Union Gathering			
Pool Blanco				Formation Mesa Verde		Unit	
Completion Date 5-12-77		Total Depth 5161'		Plug Back TD 5129'		Elevation 6043' GR	
Farm or Lease Name Culpepper Martin		Well No. #6-A		Perforations: From 4801' To 5081'		Csg. Size 7.000 Wt. 20# d 6.456 Set At 2761' 4.500 11.60# 4.000 2581-5130'	
Tbg. Size 2.375 Wt. 4.7# d 1.995 Set At 5086'		Perforations: From To		Unit Sec. Twp. Rge. I 33 32N 12W			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At -----	
Producing Thru Tbg		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _g 12.2	
L H		G _g .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.	Temp. °F	
SI							856		860		
1.	2"	X	3/4"				362		726		
2.							336		707		
3.							314		680		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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		326.2	1.0000	.9258	1.000	3734
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 _____ XXXXXXXXXX
3.					Specific Gravity Flowing Fluid _____ XXXXX
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

$P_c = 872.2$ $P_c^2 = 760,733$				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		692.2	479,141	281,592
2				
3				
4				
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 2.7015$$

$$AQF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 7,868$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.1072$$

Absolute Open Flow	7,868	Mcfd @ 15.025	Angle of Slope @	Slope, n .75
Remarks:				

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