

**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 9-7-74			
Company Manning Gas & Oil Co.				Connection Waiting on Pipeline			
Pool So. Blanco P. C.				Formation Pictured Cliffs		Unit	
Completion Date 8-25-74		Total Depth 3165		Plug Back TD 3039		Elevation 6877' GR	
Farm or Lease Name Apache		Well No. 13					
Csg. Size 4.500	Wt. 10.50	d 4.052	Set At 3096	Perforations: From 2990 To 3023			
Tbg. Size 1.900	Wt. 2.90	d 1.610	Set At 2994	Perforations: From 2991 To 2994		Unit Sec. Twp. Rge. I 13-24N - 4W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None		County Rio Arriba	
Producing Thru Tubing		Reservoir Temp. °F 97 • 3165		Mean Annual Temp. °F --		Baro. Press. - P _g 12.0	
State New Mexico							
L 2991	H 2991	G _g 0.600	% 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							900		900		9 da
1.	3/4" THG						110		590		3 hrs
2.											
3.											
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	12.3650		122	1.0000	1.0000	1.0000	1,509
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	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 _____ XXXXXX
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _c 912	P _c ² 831,744		
NO.	P _i ²	P _w	P _w ²
1		602	362,404
2			469,340
3			
4			
5			

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.7722$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2,454$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.6264$$

Absolute Open Flow 2,454 Mcfd @ 15.025	Angle of Slope @ _____	Slope 0.85
Remarks: _____		

Approved By Commission:	Conducted By: Roy Jones	Calculated By: Ewell N. Walsh	Checked By:
-------------------------	-----------------------------------	---	-------------