

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 8/17/66				
Company Artco Oil and Gas				Connection Southern Union Gathering					
Pool Blanco Mesavirde				Formation Mesaverde				Unit	
Completion Date 8/10/66		Total Depth 7025		Plug Back TD 7010		Elevation 5893 GL		Farm or Lease Name Culpepper Martin	
Csg. Size 4 1/2	Wt. 9.5	d 4.000	Set At 7025	Perforations: From 4593 To 4887		Well No. 13			
Tbg. Size 1 1/2	Wt. 2.75	d 1.610	Set At 6800	Perforations: From 6805 To open ended		Unit Sec. Twp. Rge. N 29 32N 12W			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple OG Dual					Packer Set At 6800		County San Juan		
Producing Thru casing		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico	
L	H	Gg	% 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	2"		3/4"						880		
1.									265	60 (est.)	3 hr
2.											
3.											
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		277	1.0000	.9258	1.034	3279
2.							
3.							
4.							
5.							

NO.	P _f	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 892	P _c ² 795,664		
NO.	P _t ²	P _w	P _w ²
1		287	82,247
2			
3			
4			
5			

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{795,664}{795,664 - 82,247} = 1.103$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.083$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3551$$

Absolute Open Flow 3551	Mcf @ 15.025	Angle of Slope ϕ _____	Slope, n .75
Remarks: _____			
Approved By Commission: _____ Conducted By: _____ Calculated By: _____ Checked By: _____			

ORIGINAL SIGNED BY JOE C. SALMON