

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 12/13/76			
Company Southern Union Production Co.				Connection Southern Union Gathering Company					
Pool Blanco				Formation Mesaverde				Unit	
Completion Date 11/21/76		Total Depth 5770		Plug Back TD		Elevation		Farm or Lease Name Payne	
Csg. Size 7.00 4.50	Wt. 23.00 10.50	d	Set At 3443 3323-5770	Perforations: From 5094 To 5637		Well No. 5-A			
Tbg. Size 2.0625	Wt. 3.25	d	Set At 5081	Perforations: From To		Unit 0	Sec. 27	Twp. 32N	Rge. 10W
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Dual - Gas - Gas						Packer Set At 5075		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a 12		State New Mexico	
L 5070	H	Gg 0.700	% 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	2"		3/4"				674				8 Days
1.							173	58°			3 Hours
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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.3650		185	1.0019	0.9258	1.023	2171
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 686	P _c ² 470,596	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.8974$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.6166$
NO.	P _t ²	P _w	P _w ²
1			222,576
2			248,020
3			
4			
5			

Absolute Open Flow 3510 Mcfd @ 15.025		Angle of Slope θ _____	Slope, n 0.75
Remarks: _____			

Approved By Commission:	Conducted By: Kenneth E. Roddy	Calculated By: Kenneth E. Roddy	Checked By:
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