

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 2/11/77	
Company Southern Union Production Co.				Connection Southern Union Gathering Co.			
Pool Blanco				Formation Pictured Cliffs		Unit	
Completion Date 11/21/76		Total Depth 5770		Plug Back TD 5667		Elevation 6395 GR.	
Farm or Lease Name Payne		Well No. 5-A					
Gas Size 7.00 4.50	Wt 23.00 10.50	d 6.366 4.052	Set At 3443 3323-5770	Perforations: From 3223 To 3290		Unit Sec. Twp. Rge. 0 27 32N 10W	
Thg. Size 1.660	Wt. 2.30	d 1.380	Set At 3232	Perforations: From 3199 To 3232			
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 3.188	H	G _g 0.620	% 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"				70		840		7 Days
1.							8	60°	371		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		20	1.000	0.9837	1.000	243
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 _____ 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 852	P _c ² 725,904	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2533$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.2115$	
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²
1		383	146,689	579,215
2				
3				
4				
5				

Absolute Open Flow 294 Mcfd @ 15.025		Angle of Slope 1.8 1977	Slope, n 0.85
Remarks: _____			
Approved By Commission:	Conducted By: Kenneth E. Roddy	Calculated By: Kenneth E. Roddy	Checked By: