

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 11/29/72				
Company Southern Union Production Co.					Connection Southern Union Gas Company				
Pool South Blanco					Formation Pictured Cliffs				
Completion Date 11/14/72		Total Depth 3950		Plug Back TD 3925		Elevation 6653		Farm or Lease Name Jicarilla "K"	
Csg. Size 4.500	Wt. 10.50	d 4.052	Set At 3949	Perforations: From 2950 To 2998		Well No. 18			
Tbg. Size No Tubing	Wt. 	d 	Set At 	Perforations: From To 		Unit Sec. Twp. Rge. M 2 25N 5W			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Dual Gas - Gas					Packer Set At 3789		County Rio Arriba		
Producing Thru Casing		Reservoir Temp. °F @		Mean Annual Temp. °F 		Baro. Press. - P _a 12		State New Mexico	
L 2940	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"						564		15 Days
1.									335	63°	3 Hours
2.											
3.											
4.											
5.											

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		347	0.9972	0.9837	1.030	4335
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature	Mcf/bbl. Deg.
1											
2.											
3.											
4.											
5.											

P_c **576** P_c² **331.776**

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1			130.675	201.101
2.				
3.				
4.				
5.				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \underline{1.6490}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{1.5303}$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{6634}$

Absolute Open Flow 6634	Mcf/d @ 15.025	Angle of Slope ϕ 0.85	Slope, n 0.85
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Remarks:

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