

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test ☒ Multi-Point ☐ One-Point ☐ Back Pressure Date: 12/17/71			
Company Southern Union Production Co.		Southern Union Gas Company	
Field Basin		Dakota	
Completion Date 12/2/71	Well No. 7770	Section 5-33	Survey 6957
Test Size 4.500	Wt. 10.50	d 1.052	Set At 7-02
Perforations: From 7130 To 7570	Well No. 17		
Test Size 2.375	Wt. 4.70	d 1.995	Set At 7-08
Perforations: From 7610 To 7618	Unit Sec. Twp. Rge. K 12 5N 5W		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 7610	Casing Rio Arriba
Producing Through Tubing	Reservoir Temp. °F 9	Mean Annual Temp. °F 12	Baro. Press. - P _a 12
Prover 7600	Q _g 0.700	% CO ₂	% N ₂
% H ₂ S	Prover	Meter Run	

FLOW DATA							TUBING DATA		CASING DATA		Duration
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. in w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	of Flow
SI	2"		2 1/4"				150		186		8 Days
1.							40	600	210		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 Fg	Super Compress. Factor Fpv	Rate of Flow Q, Mhd
1	12.3650		60	1.0000	0.9258	1.000	627
2							
3							
4							
5							

NO.	P _t	Temp. °F	T _f	Z	Gas-Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1					A.P.G. 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 1598	P _c ² 2,553,604	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0197$	$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0147$
NO.	P _w	P _w ²	P _c ² - P _w ²
1	222	49,284	2,504,320
2			
3			
4			
5			

Absolute Flow 697	Mhd @ 15.025	Angle of Slope @	Slope, n 0.75
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Remarks:			
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Approved By Commission:	Conducted By: Kenneth E. Roddy	Calculated By: Kenneth E. Roddy	Checked By: Kenneth E. Roddy
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