

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 12/13/74							
Company Southern Union Production Co.			Connection Southern Union Gas Company								
Pool Tapacito			Formation Pictured Cliffs		Unit						
Completion Date 11/6/74		Total Depth 4025		Perforations From 3896 To 3916	Plan or Lease Name Jicarilla "G"						
Req. Size 4.500	Wt. 10.50	d 4.052	Set At 4000	Well No. 11							
Thq. Size 1.900	Wt. 2.90	d 1.610	Set At 3741	Unit Sec. Twp. Rge. I 1 26N 5W							
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				County Rio Arriba							
Producing Thru Tubing		Reservoir Temp. °F @		State New Mexico							
Mean Annual Temp. °F 12		Casing Pressure - P _{ca}		Prover							
L 3729	H	Gg 0.620	% CO ₂	% N ₂	Meter Run						
FLOW DATA			TUBING DATA		CASING DATA						
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	Duration of Flow
1.	2"		3/4"				340	58°	339		7 Days
2.							15		74		3 Hours
3.											
4.											
5.											
RATE OF FLOW CALCULATIONS											
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor F _{pv}	Rate of Flow Q, Mscf/d				
1	12.3650		27	1.0019	0.9837	1.000	329				
2											
3											
4											
5											
NO.	P _r	Temp. °R	T _r	Z	Gas-Liquid Hydrocarbon Ratio _____ Mscf/bbl. A.P.I. Gravity of Liquid Hydrocarbon _____ Deg. Specific Gravity Separator Gas _____ Specific Gravity Flowing Fluid _____ Critical Pressure _____ P.S.I.A. Critical Temperature _____ °R						
1					DEC 19 1974 NEW MEXICO OIL CONSERVATION COMMISSION DIST. 3						
2											
3											
4											
5											
P _c 352	P _c ² 123,904										
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0635$ $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0536$						
1		86	7396	116,508	$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 347$						
2											
3											
4											
5											
Absolute Open Flow 347 Mscf/d @ 13.425" Angle of Slope @ 0.85											
Remarks:											
Approved By Commission:			Conducted By: Kenneth E. Roddy			Calculated By: Kenneth E. Roddy			Checked By:		