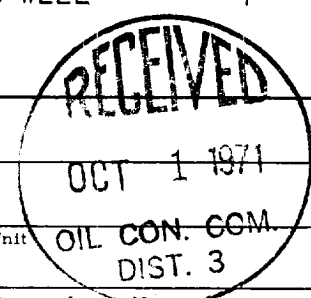


NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form O-122
Revised 9-1-65



Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 9/29/71	
Company Southern Union Prod. Co.				Connection Southern Union Gas Company		
Pool Basin				Formation Dakota		Unit OIL CON. COM. DIST. 3
Completion Date 9/16/71		Total Depth 7550		Plug Back TD 7510		Elevation 6697
Farm or Lease Name Jicarilla "K"		Well No. 14				
Csg. Size 5.500	Wt. 15.50	d 4.950	Set At 7530	Perforations: From 7262 To 7462		Unit Sec. Twp. Rge. 0 11 25N 5W
Tbg. Size 1.900	Wt. 2.90	d 1.610	Set At 7340	Perforations: From 7332 To 7340		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Triple - Gas - Gas - Gas				Packer Set At 7162		County Rio Arriba
Producing Thru Tubing		Reservoir Temp. °F @		Mean Annual Temp. °F 12		State New Mexico
L 7322	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
1	2"		3/4"				2077				7 Days 3 Hours
2							135	650			
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, Mcfd
1	12.3650		147	0.9952	0.9258	1.016	1702
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 2089 P _c ² 4,363,921			
NO.	P _r ²	P _w	P _w ²
1			
2			
3			
4			
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0648$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1784$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0482$

Absolute Open Flow 1784 _____ 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: Kenneth E. Roddy