

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-177
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 10-8-79	
Company SUPRON ENERGY CORPORATION				Connection Southern Union Gathering Company	
Pool Aztec				Formation Pictured Cliffs	
Completion Date 9-20-79		Total Depth 4768		Plug Back TD 4734	
				Elevation 5799 KB	
Csg. Size 7.000 4.500		WI. 23.00 10.50		Perforations: From 2168 To 2216	
Thq. Size 1.660		WI. 2.30		Perforations: From 2222 To 2238	
Type Well - Single - Bradenhead - G.G. or G.O. Multi- ☐				Packer Set At 3724	
Producing Thru Tubing				Baro. Press. - P _a 12	
L 2212		H		Prover	
Gg 0.620		% CO ₂		% N ₂	
				% H ₂ S	
				Meter Run	
				Taps	
FLOW DATA					
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w
1.	2"		3/4"		
2.					
3.					
4.					
5.					
TUBING DATA					
				Press. p.s.i.g.	Temp. °F
				755	
				67	60°
Casing Data					
				Press. p.s.i.g.	Temp. °F
				755	
				311	
Duration of Flow					
					14 days
					3 hours
RATE OF FLOW CALCULATIONS					
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft	Gravity Factor Fg
1	12.3650		79	1.0000	0.9837
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 _____
3.					Specific Gravity Flowing Fluid _____
4.					Critical Pressure _____ P.S.I.A.
5.					Critical Temperature _____ °R
$P_c = 767$ $P_c^2 = 588,289$					
NO.	P ₁ ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2156$
1		323	104,329	483,960	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1804$
2.					
3.					
4.					
5.					
$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1134$					
Absolute Open Flow 1134 Mcd @ 15.025 Angle of Slope @ Slope, n 0.85					
Remarks:					
Approved By Division		Conducted By Randy Martinez		Calculated By Kenneth E. Roddy	
				Checked By	