

OIL CONSERVATION DIVISION

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

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 5-29-81	
Company SUPRON ENERGY CORPORATION				Connection Southern Union Gathering Company	
Pool Basin				Formation Dakota	
Completion Date 5-20-81		Total Depth 6545		Plug Back TD 6499	
Elev. Size 5.500		WI. 15.50		Elevation 5633	
Perforations From 6294 To 6396		Set At 6545		Perforations No Perforations	
Perforations From		Set At 6305		Perforations To	
Type Well - Single - Firehead - G.C. or C.O. Multiple Gas - Oil Dual Completion				Packer Set At 6269	
Producing Thru Tubing		Innerwell Temp. °F #		Baro. Press. - P _a 12	
L 6295		H Cg 0.700		Prover Meter Run Tops	
FLOW DATA				TUBING DATA	
Casing Data				Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w
1	2"		3/4"		
2					
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
1	12.3650		87	0.9971	0.9258
2					
3					
4					
5					
NO.	R ₁	Temp. °R	T ₁	Z	Gas Liquid Hydrocarbon Ratio
1					A.P.I. Gravity of Liquid Hydrocarbons
2					Specific Gravity Separator Gas
3					Specific Gravity Flowing Fluid
4					Critical Pressure
5					Critical Temperature
$P_c^2 = 1,077,444$ $P_c^2 - P_w^2 = 1,0537$ $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0399$ $AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1033$					
NO.	P ₁ ²	P _w	P ₂ ²	P _c ² - P ₂ ²	
1			54,923	1,022,521	
2					
3					
4					
5					
Absolute Open Flow 1033				Mold # 15.025	
Angle of Slope				Slope, n 0.75	
Remarks					
Approved By Division		Conducted By		Checked By	