

Company SUPRON ENERGY CORPORATION				Contract No. Southern Union Leasing Contract			
Pool Basin				Formation Dakota			
Completion Date 11-16-61		Total Depth 6161		Plug Back To 6100		Elevation 5451	
Well Size 4.500		Casing Size 4.000		Perforations From 5930 To 6040		Well Name WELL 10	
Type Well 2.375		Casing Size 4.70		Perforations From 5930 To 6040		Well Name WELL 10	
Type Well - Single - Broadhead - G.C. or G.C. Multiple Single				Packer Set At ---		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F 0		Mean Annual Temp. °F 12		State New Mexico	
L 6031		H 0.700		G _g 0.700		Meter Run ---	
C _g 0.700		N ₂ ---		H ₂ S ---		Taps ---	
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.
1	2"		3/4"				361
2							55
3							55
4							55
5							55
RATE OF FLOW CALCULATIONS				Duration of Flow			
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super. Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.3650		67	1.0048	0.9258	1.000	77.1
2							
3							
4							
5							
NO.	R _t	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	705	P _c ²	497,025		(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2575$		
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1874$		
1		319	101,761	395,264	ADP = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 915$		
2							
3							
4							
5							
Absolute Open Flow 915 Mcfd @ 15.025				Angle of Slope 0.75			
Remarks: _____							
Approved By Division		Conducted By: Clifton Gates		Calculated By: Kenneth E. Roddy		Checked By:	