

OIL CONSERVATION DIVISION

P. O. BOX 2088

Form C-177

Revised 10-1-78

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 12-5-80	
Company SUPRON ENERGY CORPORATION		Connection Southern Union Gathering Company	
Pool Blanco		Formation Mesaverde	
Completion Date 10-15-80	Total Depth 8045	Plug Back TD 7997	Elevation 6484
Casing Size 7.625 5.500		Perforations: From 5232 To 5735	
Well Size 2.0625 3.25		Perforations: From 5599 To 5605	
Well No. 4-A		Form or Lease Name Quinn	
Unit I		Sec. Twp. Rge. 19 31-N 8-W	
Type Well - Single - Brodenhead - G.G. or G.O. Multiple Dual - Gas - Gas		Packer Set At 7770	
Producing Thru Tubing		Baro. Press. - P _a 12	
State New Mexico		County San Juan	
L H G _g % CO ₂ % N ₂ % H ₂ S Prover Meter Run Taps			
5589			

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	
SI	2"		3/4"				594		594		7 days
1.							82	57°	489		3 hours
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	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mscf
1	12.3650		94	1.0029	0.9608	1.000	1120
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure P.S.I.A.	Critical Temperature °R
1										
2.										
3.										
4.										
5.										

P _r 606	P _c ² 367,236	(1) $\frac{P_c^2}{P_r^2 - P_w^2} = 3.1594$	(2) $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 2.3697$
NO	P _r ²	P _w	P _w ²
1		501	251,001
2			
3			
4			
5			

Absolute Open Flow 2654		Mscf @ 15.025	Angle of Slope °	Slope, n 0.75
Remarks:				
Approved By Division	Conducted By:	Calculated By:	Checked By:	