

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 5-27-81	
Company SUPRON ENERGY CORPORATION				Connection Southern Union Gathering Company	
Pool Basin				Formation Dakota	
Completion Date 5-15-81		Total Length 6500		Plug Back TD 6455	
Elevation 5645		Form or Lease Name Calvin		Well No. 1-E	
Coq. Size 4.500	Wt. 10.50	d 4.052	Set At 6470	Perforations From 6209 To 6363	Unit Sec. Twp. Ry P 26 29N 11W
Thq. Size 2.375	Wt. 4.70	d 1.995	Set At 6345	Perforations From To	
Type Well - Single - Floodhead - G.C. or C.O. Multiple Single				Packer Set At ----	
Producing Thru Tubing				County San Juan	
Reservoir Temp. °F #				State New Mexico	
L 6335	H	Cq 0.700	% N ₂	% H ₂ S	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. in. H ₂ O	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI	2"		3/4"				872		872		7 days
1.							81	62°	263		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 Ft.	Gravity Factor Fg	Super Compress. Factor, F _{sp}	Flow in Mscf
1	12.3650		93	0.9981	0.9258	1.000	1063
2.							
3.							
4.							
5.							

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

884	781,456									
NO.	P ₁ ²	P ₂ ²	P ₂ ² - P ₁ ²	P ₁ ² - P ₂ ²	(1) $\frac{P_c^2}{P_1^2 - P_2^2} \times 1.1071$	(2) $\left[\frac{P_c^2}{P_1^2 - P_2^2} \right]^n = 1.0793$				
1		275	75,625	705,831						
2										
3										
4										
5										

Absolute Open Flow	1147	Mscf @ 15.075	Angle of Slope	Slope, n	0.75
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Remarks:

Approved By Division	Conducted By Kenneth E. Roddu	Calculated By	Checked By
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