

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 4-11-81	
Company SUPRON ENERGY CORPORATION				Connection Southern Union Gathering Company	
Pool Basin				Formation Dakota	
Completion Date 3-25-81		Total Depth 8200		Plug Back TD 8178	
Elevation 6594		Firm or Lease Name Nordhaus		Well No. 6-A	
Case Size 7.625	WT. 26.40	d 6.969	Set At 3765	Perforations From 8016 To 8125	
5.500	15.50	4.950	3575-8192		
Req. Size 2.0625	WT. 3.25	d 1.750	Set At 7935	Perforations No Perforations	
Type Well - Single - Drifted - G.C. or G.O. Multiple Dual - Gas - Gas				Packer Set At 7928	
Producing Through Tubing		Reservoir Temp. °F 8		State New Mexico	
L 7925		H 0.700		County San Juan	
Gg		% 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. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI	2"		3/4"				2405				7 days
1.							50	58°			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, Fpv	Flow Q, Mcfd
1	12.3650		62	1.0019	0.9258	1.000	711
2.							
3.							
4.							
5.							

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

NO.	P ₁	P _w	P ₂	P _c - P _w	(1) $\frac{P_c^2}{P_1^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_1^2 - P_w^2} \right]^n =$
1	2417		5,841,889		1.0057	1.0042
2						
3						
4						
5						

Absolute Open Flow		714	Mcf @ 15.025	Angle of Slope	Slope, n	0.75
Remarks						
Approved By Division		Conducted By Rennie Brown		Calculated By Kenneth E. Roddy		Checked By