

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

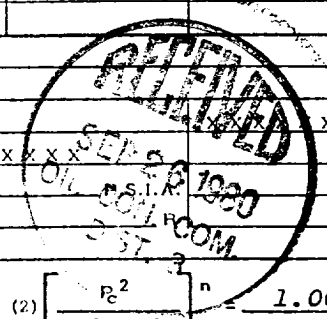
Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 9-17-80	
Company SUPRON ENERGY CORPORATION				Connection Southern Union Gathering Company		
Pool Basin				Formation Dakota		Unit
Completion Date 5-24-80		Total Depth 7186		Plug Back TD 7126		Elevation 6040
Form or Lease Name Nye Federal		Well No. 1-M				
sq. Size 5.500	Wt. 15.50	d 4.950	Set At 7185	Perforations: From 6966 To 7139		Unit Sec. Twp. Rge. P 20 31N 12W
Thq. Size 2.0625	Wt. 3.25	d 1.750	Set At 6902	Perforations: No Perforations From To		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Dual - Gas - Gas				Packer Set At 6902		County San Juan
Producing Thru Tubing		Reservoir Temp. °F 6		Mean Annual Temp. °F		State New Mexico
L 6892	H	Gg 0.650	% CO ₂	% N ₂	% H ₂ S	Prover Meter Run Taps

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"				1239				7 days
1.							35	65°			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	Rate of Flow Q, Mcfd
1	12.3650		47	0.9952	0.9608	1.000	556
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons	D ₁₄
2.					Specific Gravity Separator Gas	X X X X
3.					Specific Gravity Flowing Fluid	X X X X
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R



P _c 1251 P _c ² 1,565,001		(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0112$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0083$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	
1			17,272	1,547,729	
2					
3					
4					
5					

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 561$	
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Absolute Open Flow	561	Mcf/d @ 15.025	Angle of Slope θ	Slope, n	0.75
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Remarks:			
Approved By Commission:	Conducted By: Floyd Woodward	Calculated By: Kenneth E. Roddy	Checked By: