

**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 9-24-80	
Company SUPRON ENERGY CORPORATION				Connection Southern Union Gathering Company		
Pool Blanco				Formation Mesaverde		Unit
Completion Date 5-24-80		Total Depth 7186		Plug Back TD 7126		Elevation 6040
Farm or Lease Name Nye Federal						Well No. 1-M
Log. Size 5.500	Wt. 15.50	d 4.950	Set At 7185	Perforations: From 4755 To 4957		Unit P
Thq. Size 2.0625	Wt. 3.25	d 1.750	Set At 4809	Perforations: From 4738 To 4744		Sec. 20
Type Well - Single - Blindhead - G.G. or G.O. Multiple Dual - Gas - Gas				Packer Set At 6902		Twp. 31N
Producing Thru Tubing		Reservoir Temp. °F 6		Mean Annual Temp. °F 12		State New Mexico
L 4728	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"				1080		1087		14 days
1.							138	79°	720		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		150	0.9822	0.9608	1.012	1772
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _f	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.										

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		732	535,824	671,977
2.				
3.				
4.				
5.				

P_c **1099** P_c² **1,207,801**

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{1.7974}{1.7974 - 1.7974} = \frac{1.7974}{0} = \text{undefined}$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{1.5522}{1.5522 - 1.5522} = \text{undefined}$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{2749}{2749 - 2749} = \text{undefined}$

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Absolute Open Flow 2749	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: