

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 3-4-81			
Company SUPRON ENERGY CORPORATION				Connection Southern Union Gathering Company					
Pool Bloomfield Extension				Formation Chacra				Unit	
Completion Date 2-19-81		Total Depth 3070		Plug Back TD 3045		Elevation 5718		Farm or Lease Name Zachry	
Csg. Size 2.875	Wt. 6.50	d 2.441	Set At 3055	Perforations From 2912 To 3021		Well No. 23			
Tbg. Size No Tubing	Wt.	d	Set At	Perforations From To		Unit Sec. Twp. Rge. M 34 29-N 10-W			
Type Well - Single - Drdthead - G.G. or G.O. Multiple Single						Packer Set At		County San Juan	
Producing Thru Casing		Reservoir Temp. °F #		Annual Temp. °F		Baro. Press. - P _a 12		State New Mexico	
L 3045	H	Gg 0.650		% 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"						1032		7 days
1.									133	670	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, Mcfd
1	12.3650		145	0.9933	0.9608	0.623	1733
2.							
3.							
4.							
5.							

NO.	P _t	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.										

NO.	P _t	P _w	P _t ²	P _w ²	P _t ² - P _w ²
1	1044		1,089,936		33,426
2.					
3.					
4.					
5.					

(1) $\frac{P_c^2}{P_t^2 - P_w^2} = 1.0316$

AOF = Q $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 1774$

(2) $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 1.0236$

Absolute Open Flow	1774	Mcf @ 15.025	Angle of Slope	Slope, n	0.75
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Remarks:

Approved by Division	Conducted By	Calculated By	Checked By
		Kenneth E. Rodden	