

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 8-18-81			
Company SUPRON ENERGY CORPORATION				Connection Southern Union Gathering Company					
Pool Bloomfield Est.				Formation Chacra				Unit	
Completion Date 5-29-81		Total Depth 6520		Plug Back TD 6473		Elevation 5690		Farm or Lease Name Congress	
Csq. Size 4.500	Wt. 10.50	d 4.052	Set At 6517	Perforations: From 2767 To 2889		Well No. 5-E			
Thq. Size NO TUBING	Wt.	d	Set At	Perforations: From To		Unit Sec. Twp. Rge. P 34 29N 11W			
Type Well - Single - Brdenhead - G.G. or G.O. Multiple Dual - Gas - Gas						Packer Set At 6158		County San Juan	
Producing Thru Casing		Reservoir Temp. °F P		Mean Annual Temp. °F		Baro. Press. - P _a 12		State New Mexico	
L 2757	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"						941		14 days
1.									129	64°	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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.3650		141	0.9962	0.9608	1.012	1689
2.							
3.							
4.							
5.							

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

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1			25,069	883,140
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0284$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1725$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0212$

Absolute Open Flow	1725	Mcf/d @ 15.025	Angle of Slope	Slope, n	0.75
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Remarks:

Approved By Division	Conducted By: Cliff Gates	Calculated By: Kenneth E. Roddy	Checked By:
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