Table II

	Expt'1	Theory (based on experimental $a_0$ )	Theory (Born Repulsive term included)
$B_{o}^{T}$	77 kb*	82.36 kb	87.06 kb
$B_{o}^{T}$	3.904**	3.926	4.096
BoT"	-0.0696kb <sup>-1</sup> **	$-0.0461 \text{ kb}^{-1}$	-0.0441kb <sup>-1</sup>

If, instead, we use the following two conditions

$$P=0=-\frac{1}{4\pi r_s^2} \frac{dE}{dr_s}$$

$$B_0 = \frac{1}{12\pi r_s} \frac{d^2E}{dr_s^2}$$

and the extrapolated 0°K value of  $B_o$  to determine the value of  $r_c$  and the equilibrium value of  $r_s$ , we obtain  $r_s$ =4.038,  $r_c$ =2.047. Again using eq. (4) and (5) to calculate  $B_o$ ,  $B_o$  and  $B_o$ , we obtain the results shown in Table III.

In the previous calculation the Born repulsive energy due to ion-ion overlap was not considered. It would be interesting to see the effect of adding this term to the total energy. A Huggins-Mayer type expression for the Born repulsive energy

<sup>\*</sup> extrapolated 0°K value

<sup>195°</sup>K value