TABLE 7

Sb-Sb BOND LENGTHS

Compound	Sb-Sb Bond Length (Å)	
Sb (Metal)	2.90	
CdSb, ZnSb	2.81	
$LaSb_2$ Type Rare Earth Diantimonides		
	Published*	Correct**
$LaSb_2$	2.803	2.878
$CeSb_2$	2.760	2.832
$PrSb_2$		2.811
$NdSb_2$		2.806
Nd_3Sb_2	2.742	2.814
$SmSb_2$	2.720	2.788
$GdSb_2$		2.771
$TbSb_2$		2.758

*From Wang and Steinfink (1)
**Calculated from $SmSb_2$ atomic positions from Wang and Steinfink (1) and lattice parameters in Table 5.

represents a considerable compression of the Sb-Sb bond.

The variation of lattice parameters for the high pressure orthorhombic structure is very smooth as shown in Figure 21. The ionic radius of yttrium is usually given as 0.93 Å but it fits at 0.923 Å in the high pressure orthorhombic diantimonide structure and was plotted there.

Cell parameter variation of the Th_3P_4 type rare earth