

TABLE 11

X RAY DIFFRACTION DATA AND INDEXING OF HIGH  
PRESSURE TYPE RARE EARTH DIANTIMONIDES

hkl	Intensity	GdSb <sub>2</sub>		TbSb <sub>2</sub>	
		d Obs.	d Calc.	d Obs.	d Calc.
110	VVW	2.899	2.880	2.891	2.869
111	VVS	2.727	2.711	2.717	2.700
003	VW	2.628	2.677	2.621	2.663
112	VVS	2.338	2.340	2.330	2.330
113	VW	1.950	1.961	1.945	1.952
014	VVW			1.708	1.706
310	VVW			1.675	1.688
020	S	1.645	1.648	1.642	1.641
114	S	1.636	1.647	1.628	1.639
021	VVW			1.605	1.608
105	M	1.548	1.550	1.541	1.542
401	M	1.457	1.458	1.451	1.451
221	VVW	1.416	1.418	1.414	1.412
402	W	1.391	1.391	1.385	1.384
106	VVW	1.319	1.305	1.312	1.299
412	VW	1.282	1.281	1.277	1.276
024	VS	1.276	1.274	1.270	1.268
413	VVW	1.202	1.208	1.196	1.201
025	W	1.154	1.150	1.148	1.145
420	VVW	1.101	1.102	1.098	1.097
421	W	1.092	1.092	1.087	1.087
422	W	1.063	1.063	1.058	1.058
316	VW	1.055	1.050	1.050	1.045
026	VVW	1.039	1.039	1.034	1.034
217;423	VVW	1.018	1.018	1.014	1.013
226	W	0.979	0.980	0.974	0.976
034	W	.963	.964	.959	.960
610	VVW	.944	.947	.941	.942
522	VW	.938	.936	.933	.932
523	W	.906	.906	.902	.902
109;431	VVW			.876	.874
417	VW	.873	.875	.870	.870
209	VW	.854	.854	.850	.850
700	VVW			.843	.843
621	VW	.843	.843	.839	.839
622	VW	.830	.829	.826	.826
141	VVW	.810	.812	.807	.809
530	W	.806	.806	.802	.802
712	W	.804	.804	.800	.800
240	W	.794	.794	.791	.791
241;532	W	0.791	0.790	0.787	0.787