Analyses of Start Materials					
Oxide	Druzy Calcite	Bladed Aragonite			
CoO	54.6±0.4	56.1±0.5	wt.%		
BaO	0.9	0.98	wt.%		
SrO	Nil	200	ppm		
MgO	10200	500	ppm .		
FeO	100	80	ppm		
MnO	Nil	Nil			

Table 1. The start material of bladed arogonite on druzy calcite is specimen no. 1201, Rand Collection, Bryn Mawr College. Collected from the Knickerbacker quarry, 2 miles north of Frazer, Chester County, Pennsylvania.

Table 2. Results of calcite-aragonite experiments: C, calcite; A, aragonite; parentheses denote minor phase. Starting material bladed aragonite on druzy calcite.

Temp (°C)	Pressure (kb)	Products	Time (days)
128	5.18	A + (C)	21
132	5.18	A +(C)	21
153	4.83	C + (A)	35
76	4.48	A	3
90	4.14	C + (A)	28
93	4.14	c	17
56	4.14	A + (C)	28
73	4.14	A + (C)	17
70	3.69	c	8
81	3.52	C	36

parison of X-ray diffraction patterns of the product with that of the start material (Table 2). The results are plotted in Figure 1.

Table 3 contains the slope of the boundary curve at lower temperatures, its intercept at 0°C, and the resulting pressure at 100°C as obtained from our data, that of Boettcher and Wyllie (1968), and that of Johannes and Puhan (1971). The slope and 0°C intercept of our data and that of Boettcher and Wyllie are in near agreement. Both of the 100°C points are within the limits of experimental error of the 4.35 ± 0.15 kbar pressure of Crawford and Fyfe (Fig. 1, C and F). The slope, intercept, and 100°C point obtained from the data of Johannes and Puhan are not in agreement with the above information. Perhaps this discrepancy results from the difficulty they acknowledge