



Plate 4

Photomicrographs of Ogallala quartzite and chert from Norton, Graham, and Rawlins Counties, Kansas.

Fig. 1—Fine-grained quartzite showing opaline cement from SE cor. sec. 5, T. 5 S., R. 22 W., Norton County, Kansas; plane polarized light, X 25.

Fig. 2—Same as 1; crossed nicols, X 25.

Fig. 3—Coarse-grained quartzite from Cen. S. line, sec. 31, T. 7 S., R. 22 W., Graham County, Kansas, showing vugs lined with calcite in opaline cement; plane polarized light, X 35.

Fig. 4—Chert, showing fine-grained calcium carbonate, opal, chalcedony, and calcite from NE sec. 16, T. 4 S., R. 36 W., Rawlins County, Kansas, plane polarized light, X 35.

Fig. 5—Same as 4; crossed nicols, X 35.

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