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Gypsum Deposits in Nebraska

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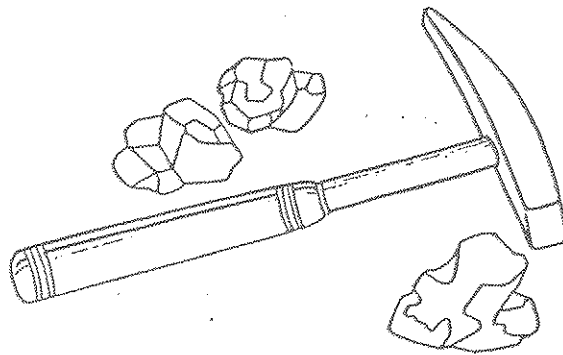
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NEBRASKA GEONOTES

GYPSUM DEPOSITS IN NEBRASKA

Raymond R. Burchett



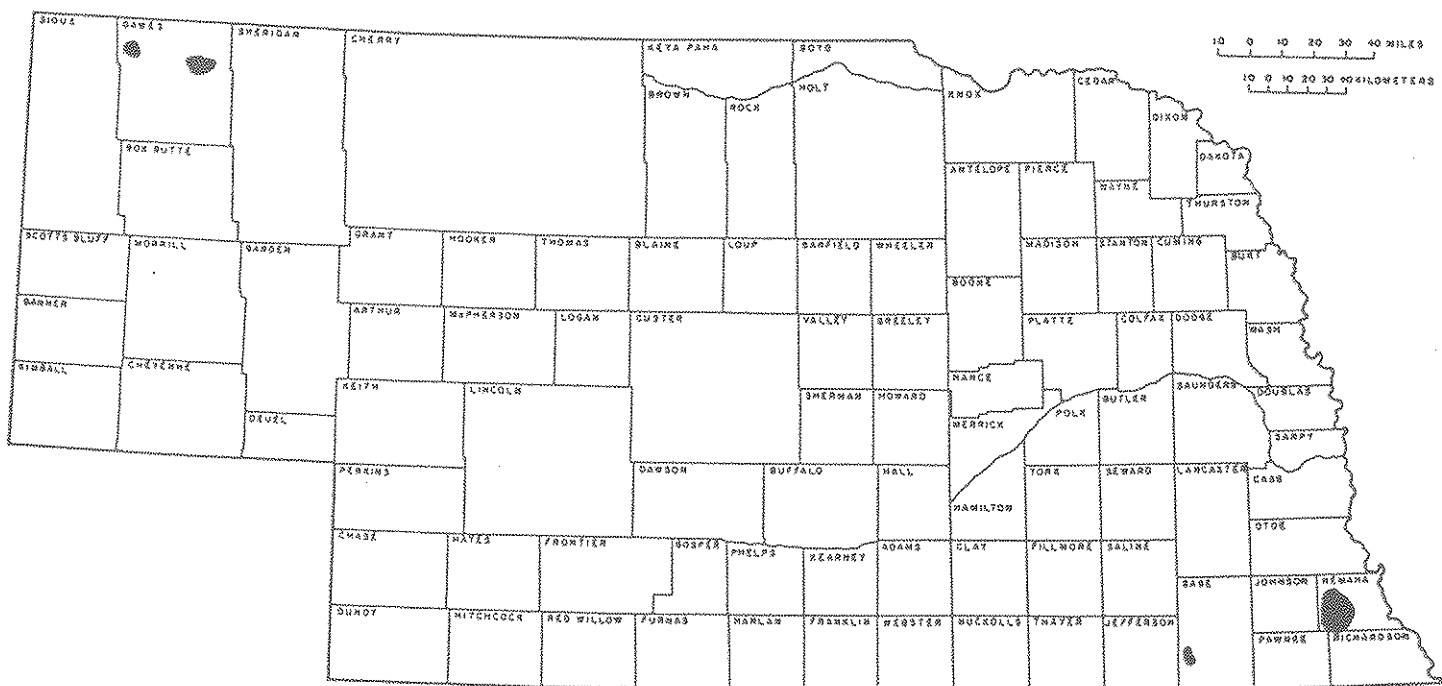
NEBRASKA GEOLOGICAL SURVEY

Conservation and Survey Division
Institute of Agriculture and Natural Resources
University of Nebraska—Lincoln



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LOCATION MAP OF GYPSUM DEPOSITS AT OR NEAR THE SURFACE IN NEBRASKA

GYPSUM DEPOSITS IN NEBRASKA
Raymond R. Burchett

Gypsum is a nonmetallic mineral that forms veins of clear to gray or white rock varying from a few inches to over 12 feet in thickness. Chemically, gypsum is composed of calcium sulfate and water of crystallization ($\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$). When gypsum is heated from 250°-400° F. it has the ability to form a hemihydrate which can be molded by adding water, and then returns to its rigid state upon "setting". This ability makes gypsum an excellent fire retardant product. Uses of gypsum include: wallboard, Portland-cement retarder, agricultural gypsum, plasters, and fillers. There has been no mining of gypsum in Nebraska but there are large reserves.

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