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*Lyon County - general*

*Item 8*

MATERIALS SURVEY

ANTIMONY

Compiled for the  
MATERIALS OFFICE  
NATIONAL SECURITY RESOURCES BOARD

by the  
UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF MINES

with the cooperation of the  
GEOLOGICAL SURVEY

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1 mile northwest of Lida. A vein 1 to 4 feet wide and over 100 feet long is in quartzite. The grade of the ore is very low. The ores of the Goldfield district contain a little antimony. Antimony has also been reported near Wellington in Smiths Valley, Lyon County.

#### Oregon

Baker County: The Gray Eagle (Dr. Koehler) antimony mine is 5 miles east of Baker in the Virtue district. A quartz-antimony vein 1,500 feet long, a maximum of 4 feet wide, and about 160 feet in depth occurs in altered volcanic rocks. Antimony in appreciable quantities has been found only within the central 350 feet of the length of the vein; the width ranges from 6 inches to 2 feet. Five ore shoots with an average length of about 35 feet were found within the central 350 feet; the average depth is also about 35 feet. Total past production is about 200 tons of antimony. Reserves are approximately 250 to 500 tons, but much of this is contained in low-grade ore that would have to be milled and is not suitable for hand-sorting to a high-grade shipping product.

Jackson County: The Jaybird (Blue Jay) antimony mine is about 25 miles west of Medford in the Applegate district. A quartz-stibnite vein 250 feet long, an average of 18 inches wide, and about 100 feet deep is in metamorphosed sedimentary rocks. The ore can be hand-sorted to a high-grade product. Past production is about 200 tons of antimony; reserves are probably of the same or somewhat greater order of magnitude.

The Lowry stibnite mine is south of the Jaybird mine. The antimony occurs as pods and shoots in a quartz vein. Some ore has been produced, but the quantity is not known. There are other antimony prospects in the same area.

Other Counties: Antimony prospects exist in the Horse Heaven district, Jefferson County; near North Powder, Union County; and 20 miles southwest of Huntington in the Mormon Basin district, Malheur County.

#### Utah

Box Elder County: The Dry Lake (Baker, Badcon) antimony mine is on the west slope of the Wasatch Range about 3 miles northeast of Brigham and about  $1\frac{1}{2}$  miles northwest of Dry Lake. The ore occurs in a quartz vein in limestone; the vein is barren of antimony where it is in the overlying limy shale, and most of the ore is within 50 feet of the shale contact. Within the ore zone, the vein ranges from several inches to 9 feet in width. Concentrations of stibnite and antimony oxides occur irregularly in the quartz vein or in brecciated limestone within about 3 feet of the vein. The average grade is about