Information Sheet

R St. Joseph Lead Company.

393 Lead Mining in Southeast Missouri, ca. 1940.
One videocassette.

This collection is available at <u>The State Historical Society of Missouri</u>. If you would like more information, please contact us at <u>shsresearch@umsystem.edu</u>.

This is a film about the lead industry in St. Francois County, Missouri. Co-produced by the U.S. Bureau of Mines, the film features segments on the geological and historical record, underground mining methods, the milling process, and development of the mining communities. The film has been reproduced on ½" videotape (VHS).

Lead Mining in Southeast Missouri presents an overview of the mining industry during the period of peak production in the Old Lead Belt. Most of the film concerns activity in St. Francois County although earlier operations at Mine La Motte in Madison County are noted in the historical section. Recreations of hand mining and Scotch hearth smelting are included, but modern, mechanized methods receive the most attention. There is an animated sequence showing the development of a mine, followed by underground footage showing pneumatic drilling, blasting, mechanized loading of ore, mine trains, machine shops, and safety theaters. The milling process is also examined with views of ore crushers at surface mills, lead concentrates, and waste rock piles. The film concludes with a brief segment featuring safety training conducted by the U.S. Bureau of Mines, and social development programs sponsored by the mining companies. Running time of the film is approximately thirty minutes.

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7 August 1989

George W. Showalter

Gift

Shelf List

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1. Historical and geological overview:

Mine La Motte

Geology of foothills of the Ozarks, St. Francois County

Chat piles on surface mark locations of mineral areas

Geological cross section

Lead sulfide, 3.5% galena in ore

Recreation of 1818 mining

Windlass and bucket--pocket mines

Hand dressing of ore

Hand jigging and washing

Scotch hearth furnace smelting

2. Modern mining methods:

Diamond drilling, 350'-700' in depth

Underground mining, drills and mule carts

Typical day of miners

Loading in cage for descent

Hoisting engineer

Mine train and cars, 24" gauge

Room and pillars, ventilation

Animated sequence showing development of mine

Pneumatic drilling, wet method

Blasting process

Mechanized loader

Mine locomotives

Sump pumps

Electric generating plant

Underground machine shops

Safety theaters and films

Blasting

Roof trimming

Loading machines

Drag scrapers

Chamber and pillar mining

Safety

Weighing of ore trains

Ore terminal

Modern Mining Methods:

Rotary drills

Ore sampling and assay

Skip Pockets and loading

3. Milling of Ore:

Ore to crushers at mills

Gyratory crushers

Concentrates to lead

4. Community Development:

Crushed limestone waste

Safety training in cooperation with Bureau of Mines

Social development programs

Establishment of dairy herds

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Index Cards

Lead industry and trade—Missouri—Saint François County.

Lead mines and mining—Missouri—Saint François County.

Mines and mineral resources—Missouri—Saint François County.

Mining machinery.

Saint Francois County (Mo.).

St. Joseph Lead Company.

United States. Bureau of Mines.