

Layout for Staff Reports
Times Roman — base font 12 pt.

[Cover is the same as this Title page minus the disclaimer.]

[Title page: margins 1¼" all sides; title centered 11 HRs from top margin; Times Roman font (base size 12 pt.); title is 24 pt.]

Phosphate Data From the Dairy Syncline Area, Caribou County, Southeastern Idaho

[Space is 4 HRs; authors centered and 16 pt.]

Lois R. Lane
Clark S. Kent

[Space is 14 HRs; disclaimer is 2-tabs plus shift-indent, 12 pt., *italic.*]

*Staff Reports present timely information for
public distribution. This publication may not
conform to the agency's standards.*

Staff Report 94-3
March 1994

[same line—flush left & right]

[same line—flush left & right]

[flush right] Idaho Geological Survey
[flush right] Morrill Hall, Third Floor

University of Idaho
Moscow, Idaho 83844-3014

[Margins 1¼" all sides; title centered 6 HRs from top margin; Times Roman font (base size 12 pt.); title is 24 pt.]

[Suppress page numbering on first page of text.]

Phosphate Data From the Dairy Syncline Area, Caribou County, Southeastern Idaho

[Space is 3 HRs; authors centered and 16 pt.]

Lois R. Lane¹ and Clark S. Kent²

[Space is 5 HRs; 1st-order heading is 14 pt., caps, centered.]

ABSTRACT

[2 Hrs.]

Four exploratory holes were drilled to further assess the phosphate resources on unleased federal lands in the Dairy syncline area, Caribou County, southeastern Idaho. In this area along the eastern flank of the Aspen Range, the Permian Phosphoria Formation is exposed on the east and west limbs of a prominent asymmetrical fold known as the Dairy syncline. These data and those from industry will be used to determine phosphate

[2 Hrs.]

The phosphate-bearing Meade Peak Phosphatic Shale Member of the Phosphoria Formation is exposed at the surface over a strike length of 3.8 miles (6.1 km) along the overturned west limb of the fold.

[3 HRs; 1st-order heading is 14 pt., caps, centered.]

INTRODUCTION

[2 HRs; 2nd-order heading is 14 pt., caps, flush left.]

PURPOSE

[2 Hrs.]

The U.S. Bureau of Land Management (BLM) evaluates unleased federal mineral resources as part of its minerals' management responsibilities. The Dairy syncline, classified under the authority of the Secretary of the Interior as within the Schmid Ridge Known Phosphate Leasing Area (KPLA), is subject to competitive leasing under the Mineral Leasing Act. The primary objective of the BLM mineral resource-evaluation program is to estimate phosphate reserves and determine fair-

[underline runs 2 inches; affiliation is 10 pt.]

¹Idaho Geological Survey, Main Office at Moscow, University of Idaho, Moscow.

²Idaho Geological Survey, Branch Office at Boise, Boise State University, Boise.

market value for mineral leasing. Data obtained by the program are also used in developing an inventory of the federal mineral estate for minerals/land-use management.

[3 HRs; 1st-order heading is 14 pt., caps, centered.]

FIRST ORDER

[2 Hrs.]

Four exploratory holes were drilled to further assess the phosphate resources on unleased federal lands in the Dairy syncline area, Caribou County, southeastern Idaho. In this area along the eastern flank of the Aspen Range, the Permian Phosphoria Formation is exposed on the east and west limbs of a prominent asymmetrical fold known as the Dairy syncline. These data and those from industry will be used to determine phosphate reserves in anticipation of a future competitive phosphate lease sale.

The phosphate-bearing Meade Peak Phosphatic Shale Member of the Phosphoria Formation is exposed at the surface over a strike length of 3.8 miles (6.1 km) along the overturned west limb of the fold. Over much of the rest of the area, the shallow-dipping Meade Peak is overlain by extensive surface exposures.

[3 HRs; 1st-order heading is *Large* or 15 pt., caps, centered.]

FIRST ORDER

[2 HRs; 2nd-order heading is 14 pt., caps, flush left.]

SECOND ORDER

[2 Hrs.]

The U.S. Bureau of Land Management (BLM) evaluates unleased federal mineral resources as part of its minerals' management responsibilities. The Dairy syncline, classified under the authority of the Secretary of the Interior as within the Schmid Ridge Known Phosphate Leasing Area (KPLA), is subject to competitive leasing under the Mineral Leasing Act.

[2 HRs; 3rd-order heading is 14 pt., upper/lower case, flush left.]

Third Order

[2 HRs; 4th-order heading is 12 pt., *italic*.]

Fourth order. As phosphate mining (in adjacent Dry Valley) has advanced towards the Dairy syncline, industry interest in the area has increased. This area, once considered relatively remote, is now of interest to reserve-hungry neighboring mining operations.

[2 HRs; 2nd-order heading is 14 pt., caps, flush left.]

SECOND ORDER

[2 Hrs.]

The Dairy syncline area covers approximately 3,000 acres of federal land in the Caribou National Forest. It is in Caribou County, Idaho, along the east flank of