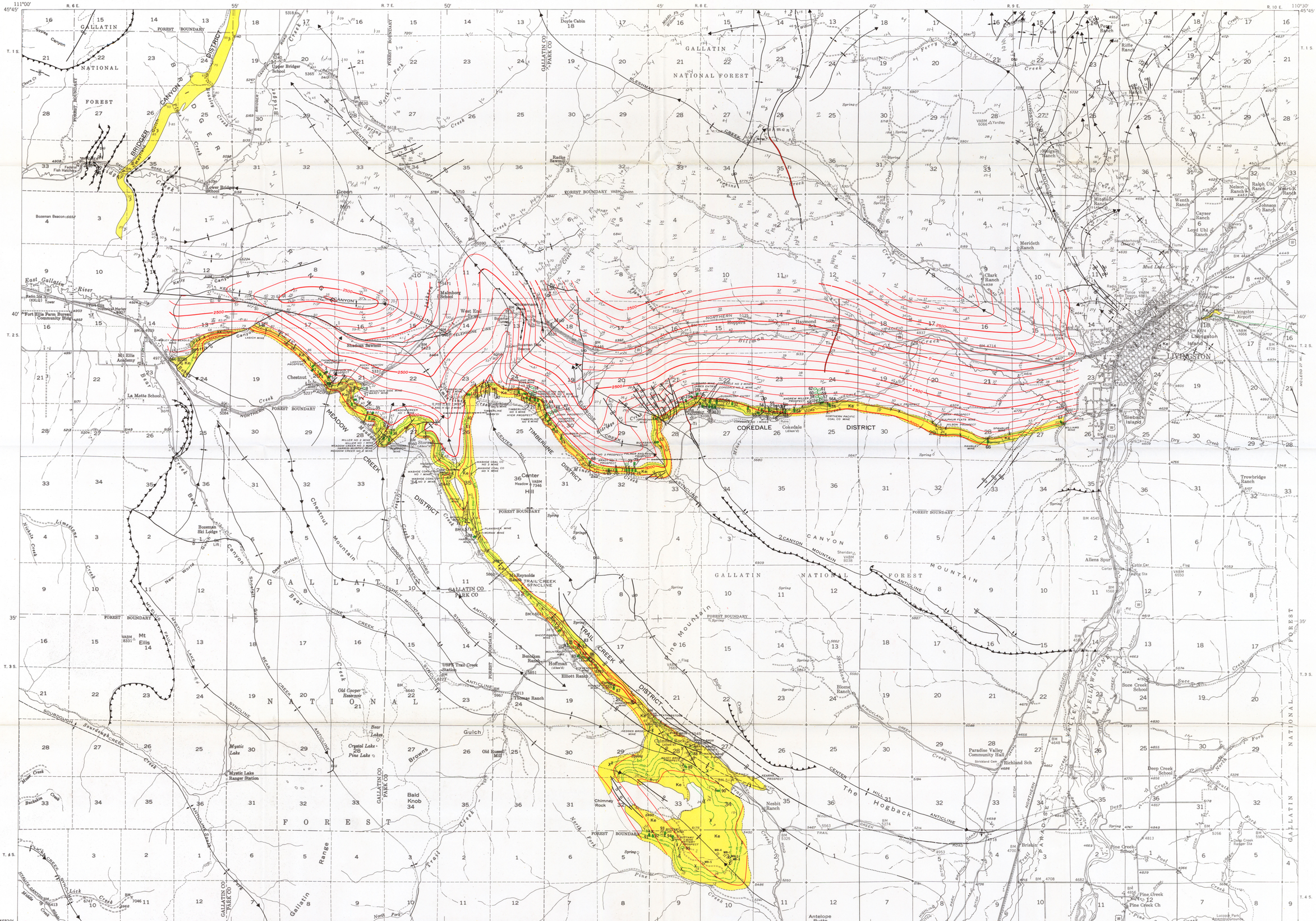

Base from U.S. Geological Survey 1:24 000 topographic quadrangles; Fort Ellis, Mystic Lake, Maxey Ridge, Bozeman Pass, Chimney Rock, Brisbin, and Livingston, 1951

SCALE 1:48 000

1 ½ 0 1 2 3 4 5 MILES

1 .5 0 1 2 3 4 5 KILOMETERS

EXPLANATION

Diabase and basalt dikes and sills

Upper Cretaceous

Eagle Sandstone

c, Cokedale coal bed
s, Storrs No. 3 bed
b, Bottamy coal bed
m, Middle coal bed
ma, Mazey coal bed
bd, Big Dirty coal bed
Where individual coal beds could not be identified;
u, upper coal bed
l, lower coal bed

Contact

Dashed where approximately located; dotted where concealed

Outcrop of coal bed or coal zone containing more than 14 inches of coal

Dashed where approximately located; dotted where concealed. Thickness of coal measured at outcrop pointer; thickness measured underground at hoe pointer. Coal sections numbered east to west or north to south

Fault

Dashed where approximately located; dotted where concealed; U, upthrown side; D, downthrown side

Thrust fault

Sawteeth on side of upper plate. Dashed where approximately located; dotted where concealed

Overturned thrust fault

Sawteeth in direction of dip; bar on side of tectonic higher plate. Dashed where approximately located; dotted where concealed

Anticline

Showing crestline and plunge of fold. Dashed where approximately located; dotted where concealed

Overturned anticline

Showing trace of axial plane, direction of dip of limb and plunge of fold. Dashed where approximately located; dotted where concealed

Syncline

Showing troughline and plunge of fold. Dashed where approximately located; dotted where concealed

Overturned syncline

Showing trace of axial plane; direction of dip of limb and plunge of fold. Dashed where approximately located; dotted where concealed

Strike and dip of beds

Strike and dip of overturned beds

Strike of vertical beds

Mine or prospect entry

Shallow drill hole

Boundary between coal districts

Structure contours

Drawn on base of Eagle Sandstone. Dashed where approximately located. Datum is mean sea level

INDEX TO TOPOGRAPHIC QUADRANGLES

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—1965—G51166

Geology based on maps by Roberts (1964, a, b, c, d, e, f, g, and h)