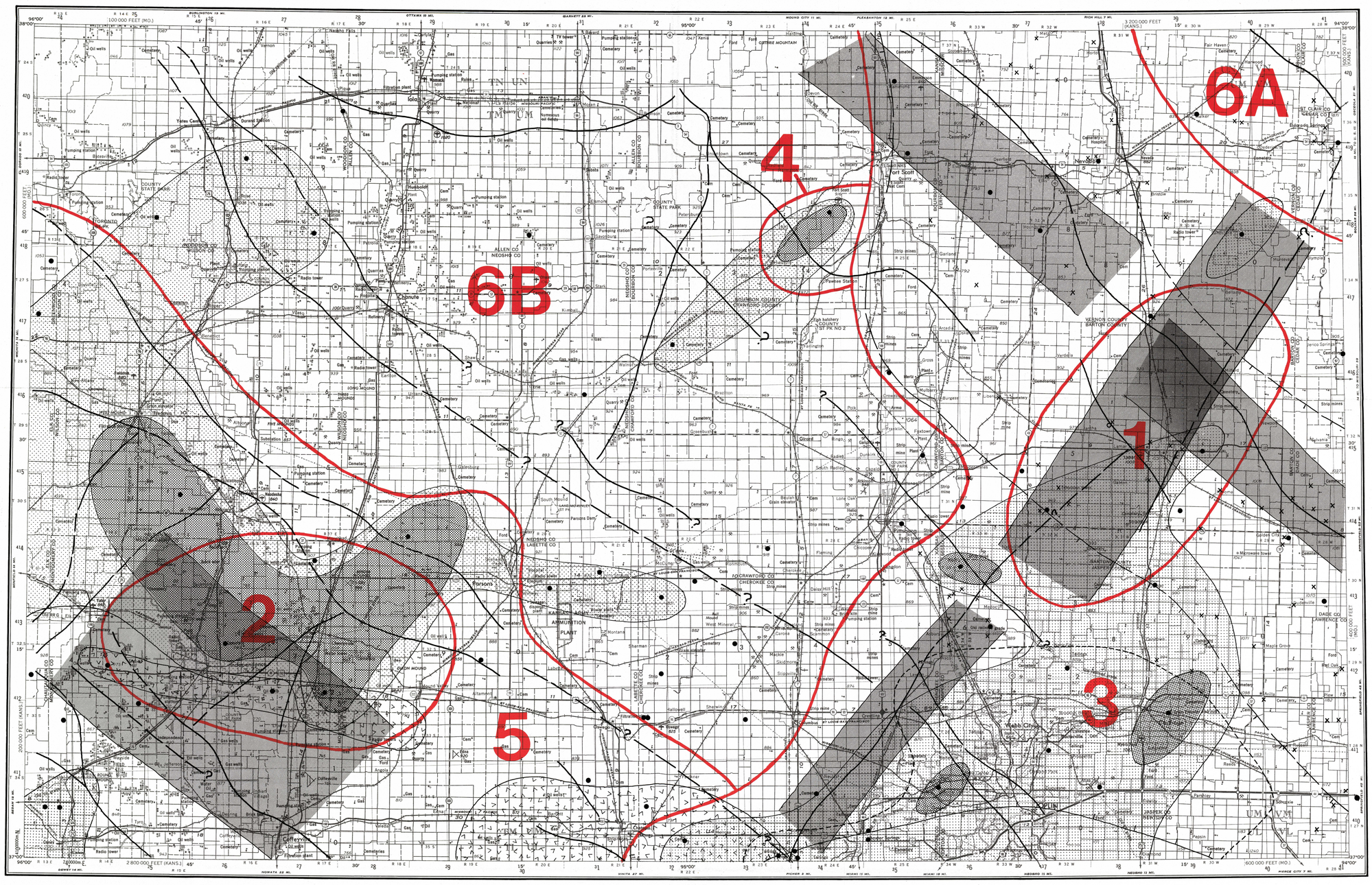
U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE
KANSAS GEOLOGICAL SURVEY AND THE MISSOURI DEPARTMENT OF NATURAL RESOURCES,
DIVISION OF GEOLOGY AND LAND SURVEY

MISCELLANEOUS FIELD STUDIES
MAP MF-2125-E
FOLIO OF THE JOPLIN 1° X 2° QUADRANGLE, KANSAS AND MISSOURI
SHEET 2 OF 2



EXPLANATION

- Pinchout of underlying shales, hachures on side where Davis-equivalent shales are absent; dashed lines indicate inner and outer limits of a zone within which the pinchout is located
- Fault, dashed where approximately located, queried where inferred
- Area of geochemical anomalies
  - Strong
  - Moderate
- Borderline of Tri-State zinc-lead district
- X Occurrence of visible sulfides (sphalerite or galena) at surface or reported on drill logs -- in Missouri only
- Area of buried Precambrian basement highs
- Zone of closely spaced or intersecting linear features on remote-sensing images
- Boundary of assessment area; numbers refer to text
- Subsurface data point (drill hole)

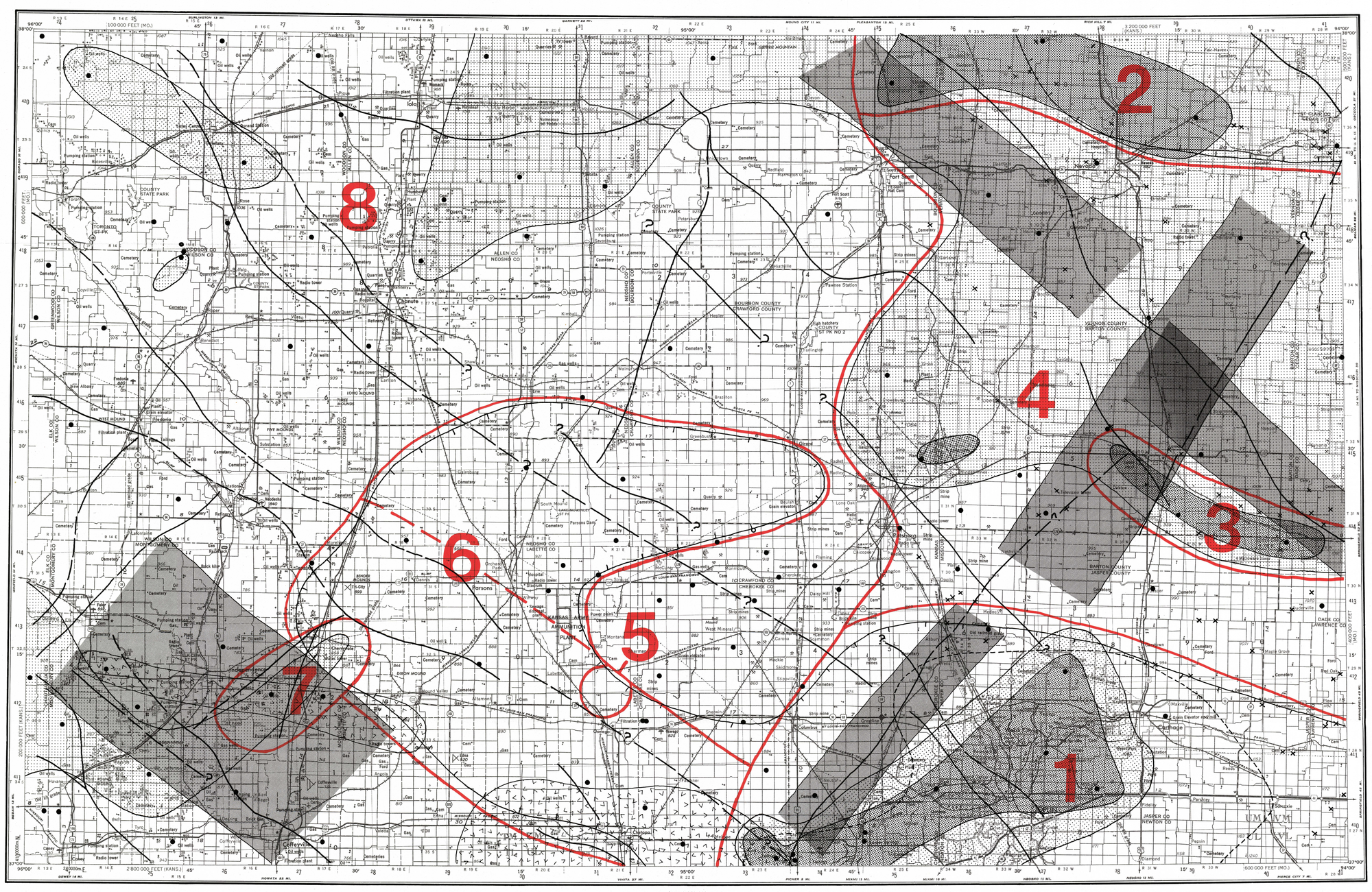
Scale 1:250,000

5 0 5 10 15 20 Statute Miles
5 0 5 10 15 20 25 30 Kilometres
5 0 5 10 15 Nautical Miles

LOCATION DIAGRAM

NJ 14-2 BELOIT	NJ 14-3 MANHATTAN	NJ 15-1 KANSAS CITY	NJ 15-2 HOBART	NJ 15-3 QUINCY ILLINOIS
KANSAS NJ 14-5 GREAT BEND	NJ 14-6 HUTCHINSON	LAWRENCE NJ 15-4	NJ 15-5 JEFFERSON CITY MISSOURI	SAINT LOUIS NJ 15-6 ROLLA
PRATT NJ 14-8	WICHITA NJ 14-9	NJ 15-7 JOPLIN	NJ 15-8 SPRINGFIELD	NJ 15-9
NJ 14-11 WOODWARD	ENID NJ 14-12	NJ 15-10 TULSA	NJ 15-11 HARRISON	POPLAR BLUFF NJ 15-12
NJ 14-2 CLINTON	OKLAHOMA NJ 14-3 OKLAHOMA CITY	NJ 15-4 FORT SMITH	ARKANSAS NJ 15-2 RUSSELLVILLE	TENNESSEE NJ 15-3 MEMPHIS

MAP A. RECOGNITION CRITERIA AND AREAS OF RESOURCE POTENTIAL FOR MISSISSIPPI VALLEY-TYPE DEPOSITS IN UPPER CAMBRIAN AND LOWER ORDOVICIAN ROCKS



EXPLANATION

- Pinchout of underlying Chattanooga and Northview Shales, hachures on side where both shales are 10 ft thick or less
- Fault, dashed where approximately located, queried where inferred
- Area of geochemical anomalies
  - Strong
  - Moderate
- Borderline of Tri-State zinc-lead district
- X Occurrence of visible sulfides (sphalerite or galena) at surface or reported on drill logs -- in Missouri only
- Area of buried Precambrian basement highs
- Zone of closely spaced or intersecting linear features on remote-sensing images
- Boundary of assessment area; numbers refer to text
- Subsurface data point (drill hole)

Scale 1:250,000

5 0 5 10 15 20 Statute Miles
5 0 5 10 15 20 25 30 Kilometres
5 0 5 10 15 Nautical Miles

LOCATION DIAGRAM

NJ 14-2 BELOIT	NJ 14-3 MANHATTAN	NJ 15-1 KANSAS CITY	NJ 15-2 HOBART	QUINCY NJ 15-3 ILLINOIS
KANSAS NJ 14-5 GREAT BEND	NJ 14-6 HUTCHINSON	LAWRENCE NJ 15-4	NJ 15-5 JEFFERSON CITY MISSOURI	SAINT LOUIS NJ 15-6 ROLLA
PRATT NJ 14-8	WICHITA NJ 14-9	NJ 15-7 JOPLIN	NJ 15-8 SPRINGFIELD	NJ 15-9
NJ 14-11 WOODWARD	ENID NJ 14-12	NJ 15-10 TULSA	NJ 15-11 HARRISON	POPLAR BLUFF NJ 15-12
NJ 14-2 CLINTON	OKLAHOMA NJ 14-3 OKLAHOMA CITY	NJ 15-4 FORT SMITH	ARKANSAS NJ 15-2 RUSSELLVILLE	TENNESSEE NJ 15-3 MEMPHIS

MAP B. RECOGNITION CRITERIA AND AREAS OF RESOURCE POTENTIAL FOR MISSISSIPPI VALLEY-TYPE DEPOSITS IN MISSISSIPPIAN ROCKS

ASSESSMENT OF THE JOPLIN 1° X 2° QUADRANGLE, KANSAS AND MISSOURI, FOR MISSISSIPPI VALLEY-TYPE DEPOSITS AND OTHER MINERALS

By

Walden P. Pratt, Timothy S. Hayes, Ralph L. Erickson, U.S. Geological Survey, Pieter Berendsen, Kansas Geological Survey, and Eva B. Kisvarsanyi, Missouri Department of Natural Resources, Division of Geology and Land Survey

1993

INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRGINIA—1993

For sale by U.S. Geological Survey Map Distribution, Box 25286, Federal Center, Denver, CO 80225