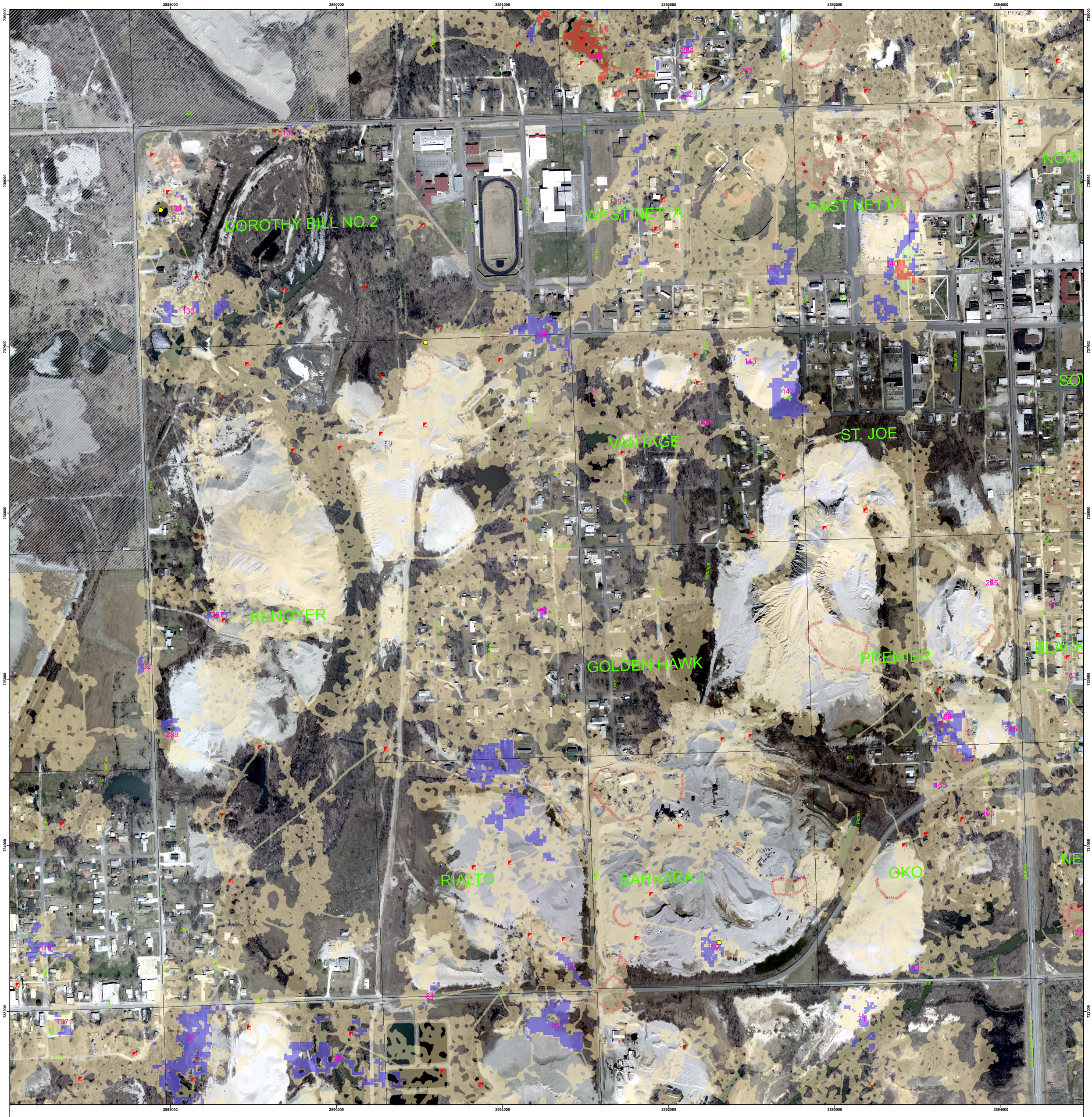


Coordinate System: NAD 1983, StatePlane, Oklahoma North, FIPS 3501, Feet

400 200 0 400 800 1,200 1,600 2,000

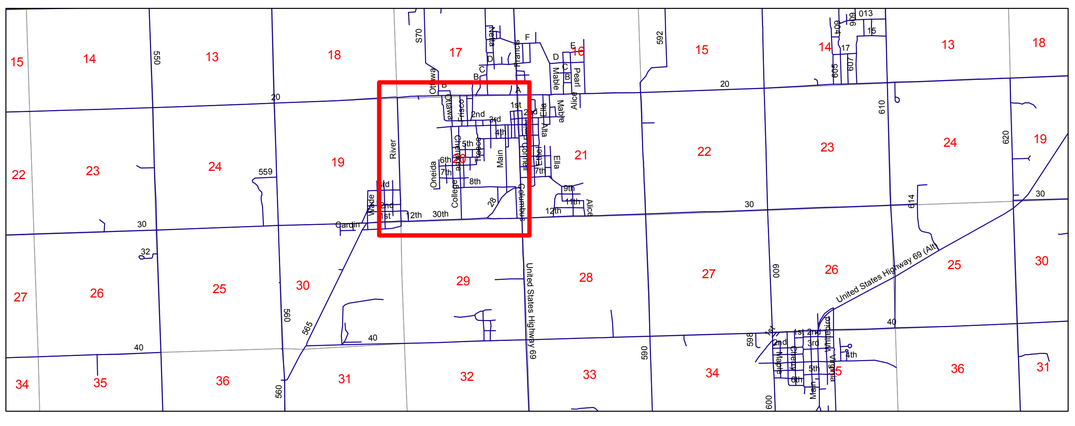
Feet

Legend

- Mine Shafts
- Non-shaft Related Subsidence
- Approximate Mine Lease Boundary

Estimated Probability of Subsidence

- > 50 %
- 20 - 50%
- < 20%
- Unanalyzed Mine Workings (see Notes)
- Roof Falls
- Unanalyzed Areas



Overview Section Location Map
Please refer to Figure 1.1 for map details.

Notes:

Location of mine shafts are displayed as 30' x 30' square symbols in order to represent the uncertainty in determining the mine shaft locations and the typical size of collapse features associated with mine shafts in the study area.

Non-shaft related subsidence features are represented with a 30' diameter circle indicating the approximate center of the known feature location.

The accuracy of the mine workings geometry is estimated to be +/- 10' due to the age and condition of the original source maps used to generate the mine workings geometry data.

The extent of mine workings is based on the most recent mine maps and may not represent the total mine workings if additional undocumented mining occurred.

Estimated maximum subsidence features analyzed for probabilities of subsidence are labeled with pink text ID numbers corresponding to Tables 7.2 and 7.4.

Displayed boundary of colored probability of subsidence area is not the absolute limit of potential surface expression of subsidence. The displayed boundary of colored probability of subsidence represents a general area in which surface expression of subsidence may originate and occur if a mine collapse propagates to the surface.

Unanalyzed mine workings are mine workings excluded from the probability of subsidence analysis conducted in this study. The unanalyzed mine workings include both mine workings with estimated maximum subsidence equal to 0 feet and mine workings with estimated maximum subsidence greater than 0 feet as shown in Exhibits 13 – 35. All mine workings have the potential for collapse.

Unanalyzed areas are areas excluded from the scope of this study and do not indicate the absence or existence of mine workings and associated subsidence hazards.

Mine Lease names are shown in large green text. Street and road names are shown in small green text.

Figure 7.3B

Picher Mining Field Subsidence Evaluation

Estimated Probability of Subsidence Indicating Priorities For Further Investigation

Based on Statistical Analysis of a Representative Sampling of Major Subsidence Documented to Have Occurred Prior to 1973

Provides the probability of future subsidence at these locations based on the similarity in characteristics with those of the collapsed mine working of the back analysis case studies. In this context, the evaluation supports the subsidence potential analysis by identifying which of the potential subsidence locations are more likely to collapse, without consideration of any time frame. (See Section 6 and Appendix E in the report)

Sheet 1 of 1

1" : 200'