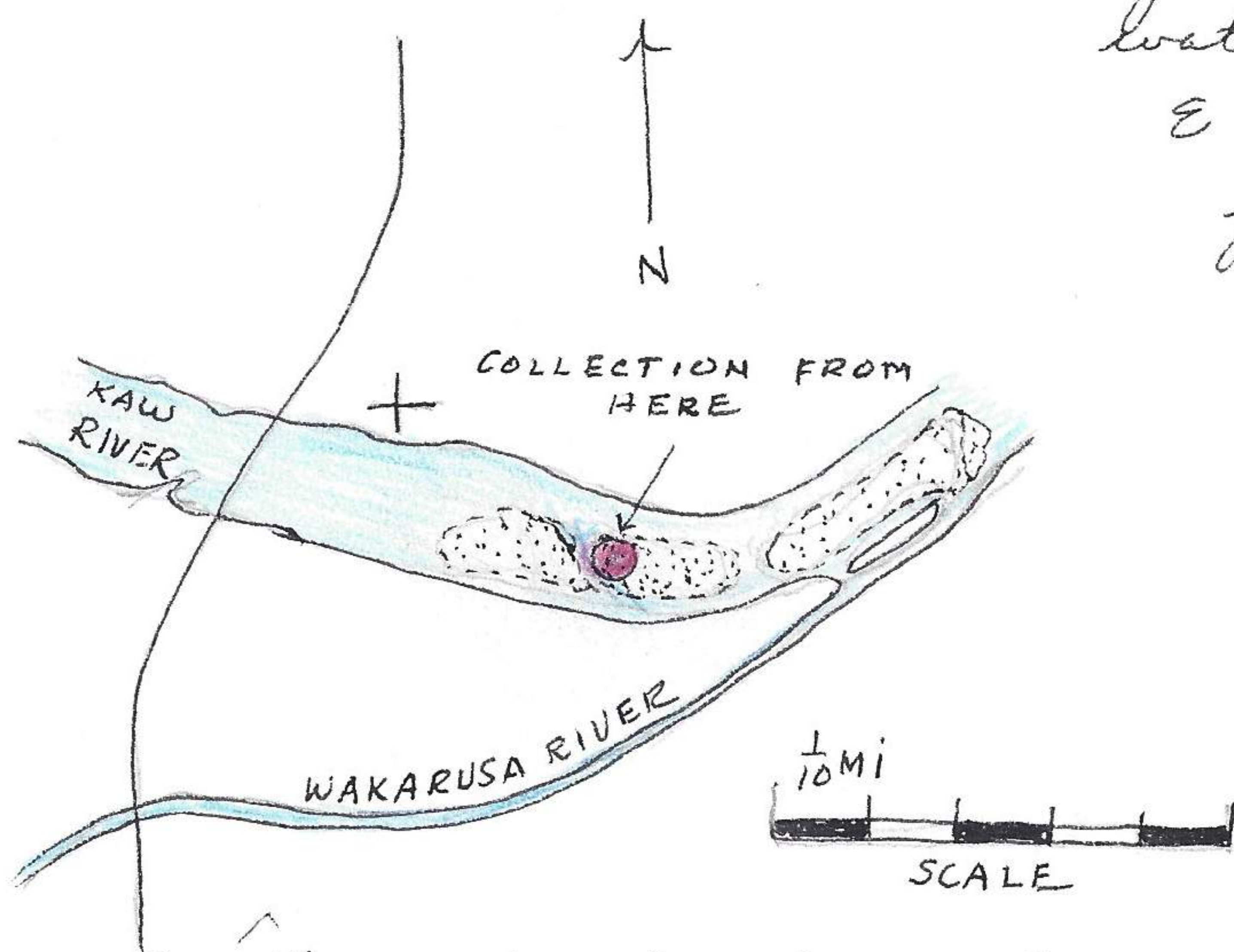


4/10 mi. down Kaw River from Eudora bridge, Douglas Co., Kansas
 April 2, 1977

Specific position of collecting site at 800' S, 1400 E of NE Sec 4, R21E, T12S.
 Area of former shoal across a former sandbar,



exposing small gravel, stones etc. The deep water has shifted from S side of river to E side. new piracy along S side to join the Wakarusa River. Birds

in area were to water pipit that feed on various parts of the sand bar as well as on river bank. 6 Baird sandpipers feed in one group in shallow water. Two killdeer in area. Juncos (slate colored) still in area along river edge. The dominant shell is *Leptodea*

fragilis and out one in 50 is a *Leptodea leucissima*. At several places now exposed are shallow holes in sand and gravel of former submerged area dug by fist? with edges slightly elevated and finer gravels. It is presumed that these are deep while water was still deep enough for excavation and escape when holes become freed of water support. The bank on S side of river is as high and perpendicular as I have seen on the Kaw River and I will measure it when in area and with facilities. The channel between the Kaw and Wakarusa is filled with a log jam. In previous years I always travelled the deepest part of river on the S side down to the mouth of the Wakarusa River but now this is the shallow part of river with only outlet high water channel. The sand bars were then on ~~west~~^{north} side of the river.

From the former shoal area from among the greater accumulation of gravels near the beginning of the sandbar and along cross channels collected several artefacts of bone and pottery. In general there are more bones at the head of the shoal than areas farther down stream from the shoal area but this is not always the case as some larger bones, especially the scapulae may be beyond among finer gravels.

- 770402-1 lower mandible & teeth
- 770402-2 pig teeth
- 770402-3 lower left mandible & teeth