

left. This bank is usually populated with winter birds but today there are practically no birds there. Temp 40%
 12:50 now at ^{first of} bend at railroad tracks. This is an unusual great amount of sand on left side before bend. Sand bar on right hand side has moved down river. Several years ago the sand formed a partial barrier across river and was almost shallow enough to wade across. 12:56 downed airplane about 300' up stream from high utility lines. The lines were broken at time of plane contact. It appeared that plane was flying up river at a low altitude. 12:58 utility line. 12:59 arched railroad bridge marked 1940. Movement of canoe variable. 1:26 leaving railroad tracks and trending $\#$ SE. 1:35 redtail like hawk hovering for prolonged period and could be American roughleg. Back and tail black, white at base tail, wings more checkered than redtail. 1:38 along perpendicular cliff at drainage from left. Base of cliff with Coyote, deer and dog tracks as well as raccoon. 1:45 down pipe, no bank swallow nest in crevity but approx. 100 associated. 1:47 *Quadrula quadrula* shell in clay at river level no 691101-1. no other shell noted. 1:53 along black clay beds. There is a coarse sand below black clay, and granules to 1/4 inch with topset-floset-bottomset beds. Some rocks up to 2". 2:04 beginning large trees at bus trailer. beeldeer, redtail hawk, 5 beeldeer to right. 2:10 log jam and to left. 2:25 wood duck left bank and went into willow, could not find. 2:33 continued on. Temp. 44°F. no frogs so far. 2:45 spotted sandpiper. Beaver house on island to right. 2:50 part of wing of airplane. 2:52 great blue heron. 3:00 opposite creek from right. ^(stranger bird) Cricket call 1 per 50' and faintly culling. Spotted sandpiper on log and not tettering as usual. 3:06 Arched railroad bridge, water of river (Kah) 1 foot below drop of apron of lateral creek. Approx 1 gal per second of water. 3:30 following cliffs to right and stable with mosses on aquifers and some weeds. 3:32 Cliffs showing more and more dissection

and when river is high dissection from field water will facilitate accentuated erosion of the cliffs by eddy action. On this stretch of river have noted seven instances of beaver ^{tracks} on muds. There are no trees or vegetation along these cliffs - 3:40 beginning of bank nests. 145 nests

