

11:58 beaver house and activity across from entrance of mud creek. area has always been a favorable place for fish as indicated by surface activity and would be a excellent place to swim.

12:00 680427-32 at bend and The inside bend of this

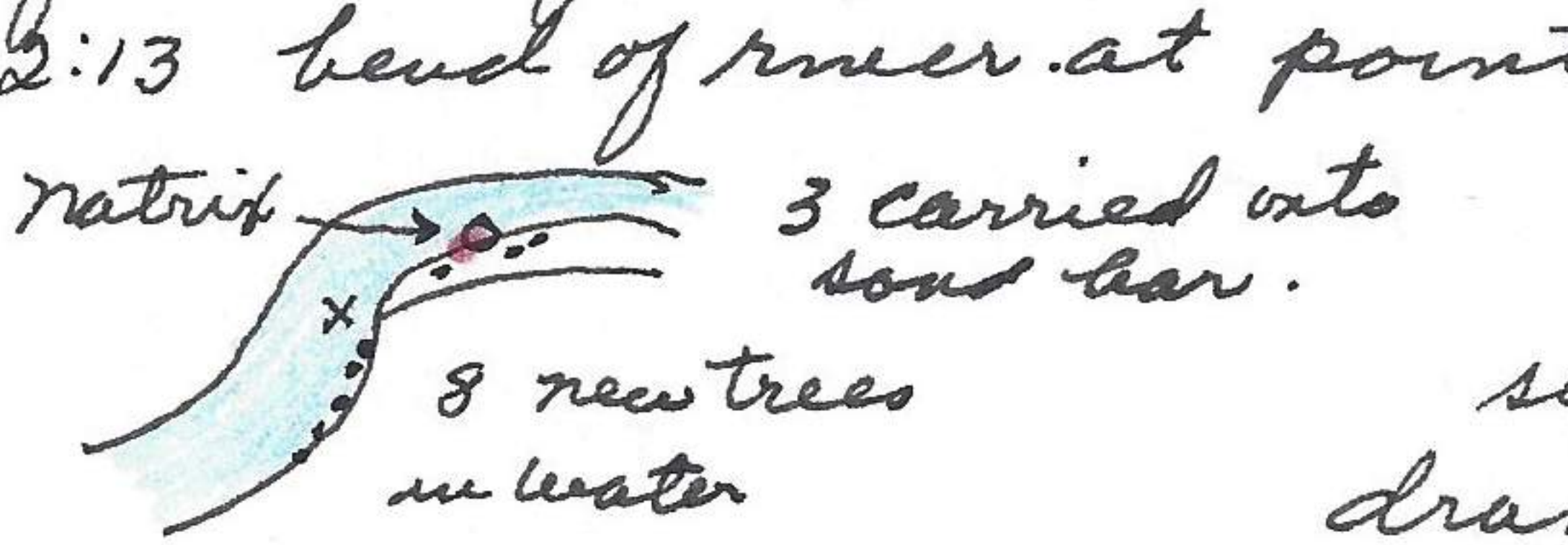


12:08 beaver house on bank and cut trees. On bank in concavity in sun (N side) was a pilot black snake. When disturbed it reacted aggressive with open mouth and forward movement. This aggressiveness has never been demonstrated under normal land conditions and may be a result of the intruder ^{3000 mm} ~~3000 mm~~ ^{making} approach from water. This snake measured ^{196 mm} 51 ^{mm} ~~mm~~ ^{inches} body length and 7 1/2 inches tail. No weight taken. 100 feet below this snake (downstream) was a Natrix, sunning on partly submerged log. On approach it left to water and disappeared.

12:18 ♂ redwing flew across river from S to N to investigate. 2 spotted sandpipers. These are not duplicates of previously observed sandpipers. 12:22 end of growth on island. 12:38 a northern waterthrush was feeding among willows on beach. It proceeded the cone for about 150 feet and toward the last allowed me to approach within 15 feet. This bird is noticeably smaller, less aggressive, more warblerlike in movement in its inspection of surroundings than is the *Louiseva* waterthrush.

12:40 passing major drainage ^{at} to left. 12:52 spotted sandpiper. 12:53 several trees with new leaves eroded into water. 1:05 rock pile in center of river and beginning of diversion canal to left. Beaver tracks all along N side river in mounds of last flood. 1:07 stopped to check for Indian artefacts on broad exposure of sands + gravel (N) and selected set of unusual rocks. Left 2:05.

2:13 bend of river at point. a natrix was swimming up river at edge and investigating small pools. It dove and did not resurface. 2:24 8 bank swallows building nests on east side of drainage entering river. 100 These nests are approx 100 up stream from double drainage entrance (island of trees). 2:29 first of lowland trees. 2:32 ♂ white throated sparrow. Raccoon tracks common. Air temp 68°F, water 60°F. 2:36 end tract of trees, now bars. 2:43 first rock barrier. 2:53 Am. Coot trees on right side look like a tornado damage. Bridge 2:57. Picked Chris up here and left 3:15. 3:18 Coot on upper erosional bank and one in river. 3:30 spotted sandpiper. 3:30 15 trees eroded into river. 3:33 mouth Wakarusa. depth water 1/10 mi up stream 12 feet. Arrived bridge 3:55.



3 carried onto sand bar. 2:24 8 bank swallows building nests on east side of drainage entering river. 100 These nests are approx 100 up stream from double drainage entrance (island of trees). 2:29 first of lowland trees. 2:32 ♂ white throated sparrow. Raccoon tracks common. Air temp 68°F, water 60°F. 2:36 end tract of trees, now bars. 2:43 first rock barrier. 2:53 Am. Coot trees on right side look like a tornado damage. Bridge 2:57. Picked Chris up here and left 3:15. 3:18 Coot on upper erosional bank and one in river. 3:30 spotted sandpiper. 3:30 15 trees eroded into river. 3:33 mouth Wakarusa. depth water 1/10 mi up stream 12 feet. Arrived bridge 3:55.