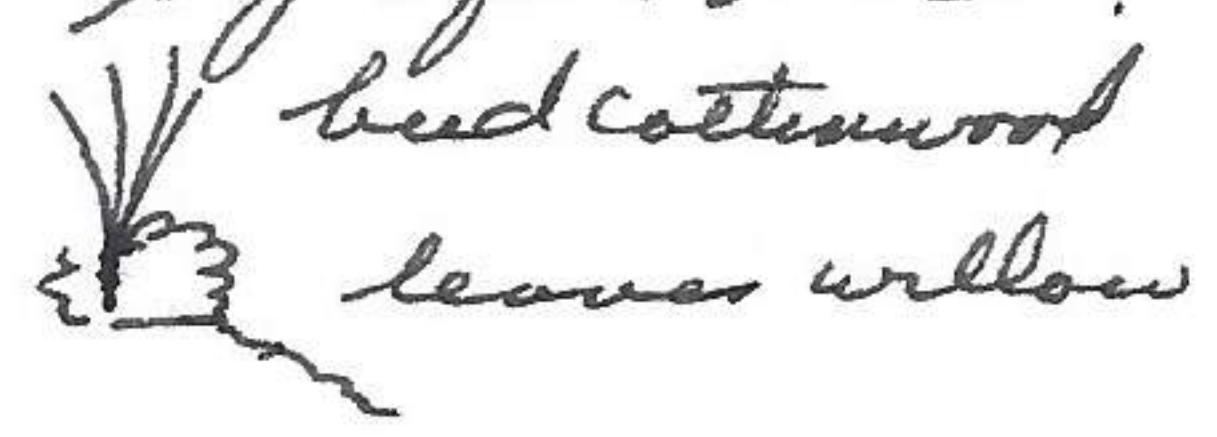


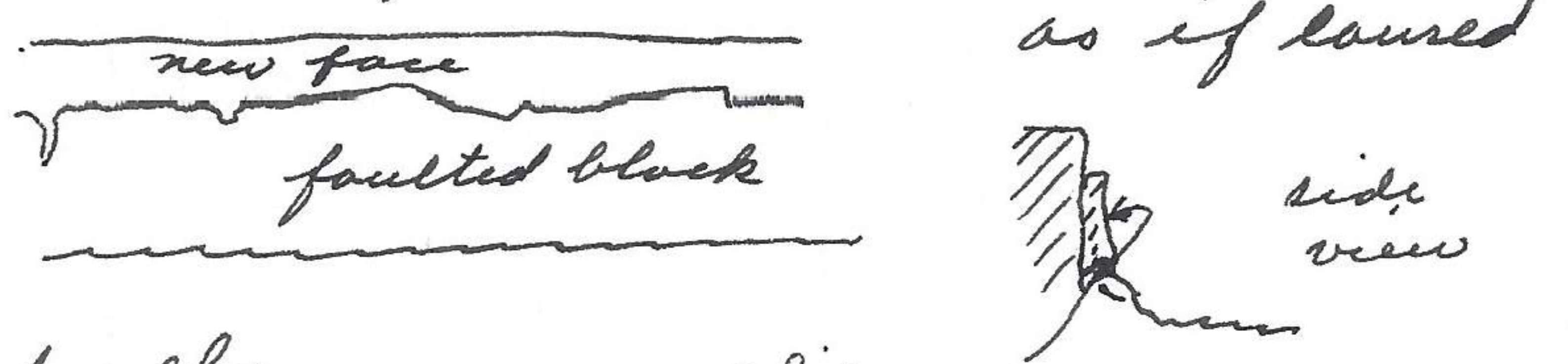
floatation. Birds along edge of river in riparian communities will not be recorded except larger birds. The numbers between the bridge at Lawrence and the high power lines that cross the river downstream (10:05) however were counted and are as follows: Chickadees 8, robins 3, crows 2, kingfisher 1, cardinals 12, flickers 4, titmice 4, juncos (slate colored) 2 groups of 4 each, grackles in groups of 10-6-300. The large group of grackles occupied approx 400' of linear river edge and the birds were in lower 1/3 of branches of cottonwoods. All birds were calling or singing, 6 mourning doves, 1 meadowlark, 20 starling, 10 Eng. sparrows, 2 blue jays, 2 downy woodpeckers, 15 red-wings singing on territories. No frogs or turtles. 10:09 drainage from right. Have been floating with current only since utility lines. From area on N side river on flood plain, NW from 10:09, heard 5 calls from spadefoot toad? No other frog calls. 10:10 Kingfisher. no surface activity of fish.

High water mark 1 foot above present level of water with skinny smooth surface below. This level of one foot in contrast to average of 3 feet in wakarusa. A ratio of river size & current to height of water mark may be of some significance. Cottonwood trees in bud, willow_{low} in leaves.



10:22 great blue heron left S side & flew to N side.

Kingfisher in same area. Two bank swallows circling over river and alighting on dead limbs of tree (log jam) in river. These swallows were within 100' of nesting bank. The nesting bank has new face with outer 1-1 1/2 feet showing or in the process of faulting down. The curious fact is that the faulting is occurring along the entire length of cliffs at the same time and degree of intensity by earth quake or supersonic blast.



10:45 Capsize Point being gradually eroded back. Surveyor on slope making charts of this changing bank. 10:50 Horned lark left sand bar on N side and flew S across river. This is the usual flight pattern of this bird. 10:58 opposite short cut channel. First turtle, on log, green and flat. Can occasionally hear frogs calling in ponds formed by sandbars.

11:04 6 gadwalls, 3 pairs mallards, 2 bluewings. The gadwalls were in most sheltered position. 10:09 first huge carp jumped out of water. 10:11 mouth mud creek. Some beaver activity here but not in comparison to previous years. There seems to have been an overtrapping of this animal this winter.