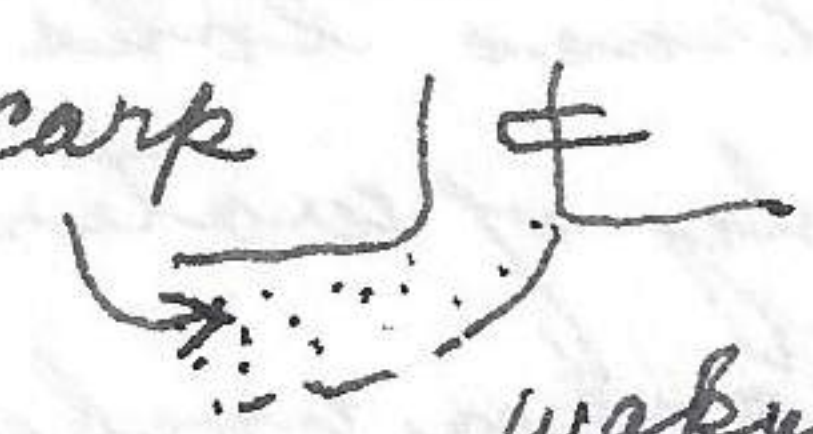


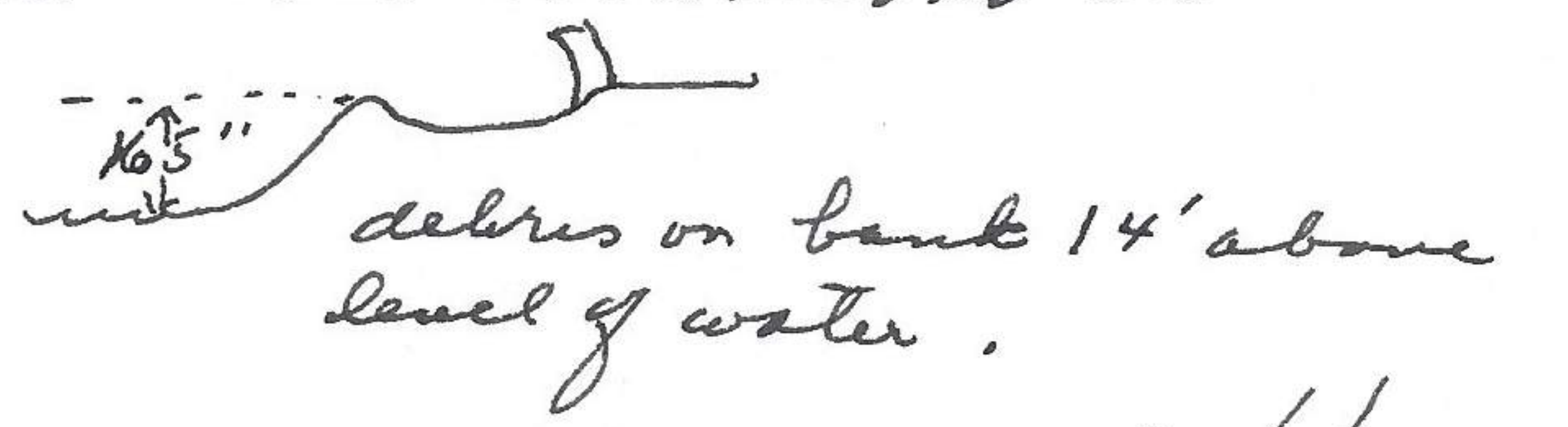
12:58 Chukadees. 12:59 R.R. bridge 1:03 <sup>680907-131</sup>  
ones), down river above trees. There is <sup>4 woodchuck</sup> more than <sup>3 flew</sup> one <sup>(different)</sup> <sup>one</sup> <sup>family</sup>  
and probably 3 different ones. 12:07 muskrat active. 1:10 3 wood-  
ucks. 80 Starling in one flock & first observed. 5 mourning doves  
around old dead tree, 3 bluejay. 1:13 robin, 2 cardinals, 3 jays  
acadian flycatcher?. 1:25 Eudora bridge. cardinal. 1:35  
Eudora sewer outlet. approx 30 large carp surfacing with mouths open  
carp  they remained until we placed larvae almost  
wakarusa. 3 cardinals in area. 1:40

green heron. 1:50 4 jay. 1:55 mouth Wakarusa. wind about  
15-20 mph. from S. active muskrat, Kaw muddy, Wakarusa  
relatively clear. Crossed to sandy point to n & had lunch.  
Collected *Ceruleids* on lee of sand behind willows and caught  
the following in three sweeps of 30' each. 680907-5 to 680907-23.

Left 2:50 P.M. air temp 82°F, water 75°F.  
wind blowing sands. used umbrella to rest turn with wind from back.  
3:00 2 g.b. heron left & flew to n. bend, 3 killdeer. Sandbar  
to right that held large masses of drift wood of large trees now  
clear. R.R. tracks at bend at 3:13. Covered distance in 23 min.  
3:18 spotted sandpiper. Under utility line at 3:25. Bluejay. approx

1/10 mi up stream on S bank measured a coarse barked cottonwood at  
185 inches or 15'5" in circumference.

Left utility lines at 3:46. 8 grackles  
on shore in lee of wind & in shade.



4:00 NE bend at mouth drainage and beginning cliffs of sand. 3 g.b. heron  
on sand to S, probably same group as at NE bend. 4:25 end of sandy  
cliffs & into large cottonwoods. Collected 2 *Quadrula*

680907-31 and 680907-32 from black clay. Cliff moved back.  
*Luna pipiens* & bluejay (small) one per 50 feet. Spotted sandpiper on  
bank and had difficult time to leave against wind. no other  
birds observed along this stretch. 4:47 S end bend at arched R.R.  
bridge just beyond main drainage from right. Redtail hawk flew from  
S to N across river. 5:00 swallow colony. all lower nests gone  
and 2/3 upper. 5:18 2 killdeer. 5:20 mouth Stronger Creek.  
wind at back. Arrived bridge of Linwood 5:30. Kaw has a  
prominent water mark at approx. 3 feet above present level. This same  
level extends up Wakarusa River.

Lawrence, Douglas Co., Kansas  
Sept. 7, 1968  
Chimney swifts flew fast and erratic with the wind. Night hawks deliberate and  
into the wind. Swifts left the air at 0 reading on Weston exposure meter at  
8:00 P.M. Approx. 10 min. previous, sky 0 reading on meter pointed to sky.