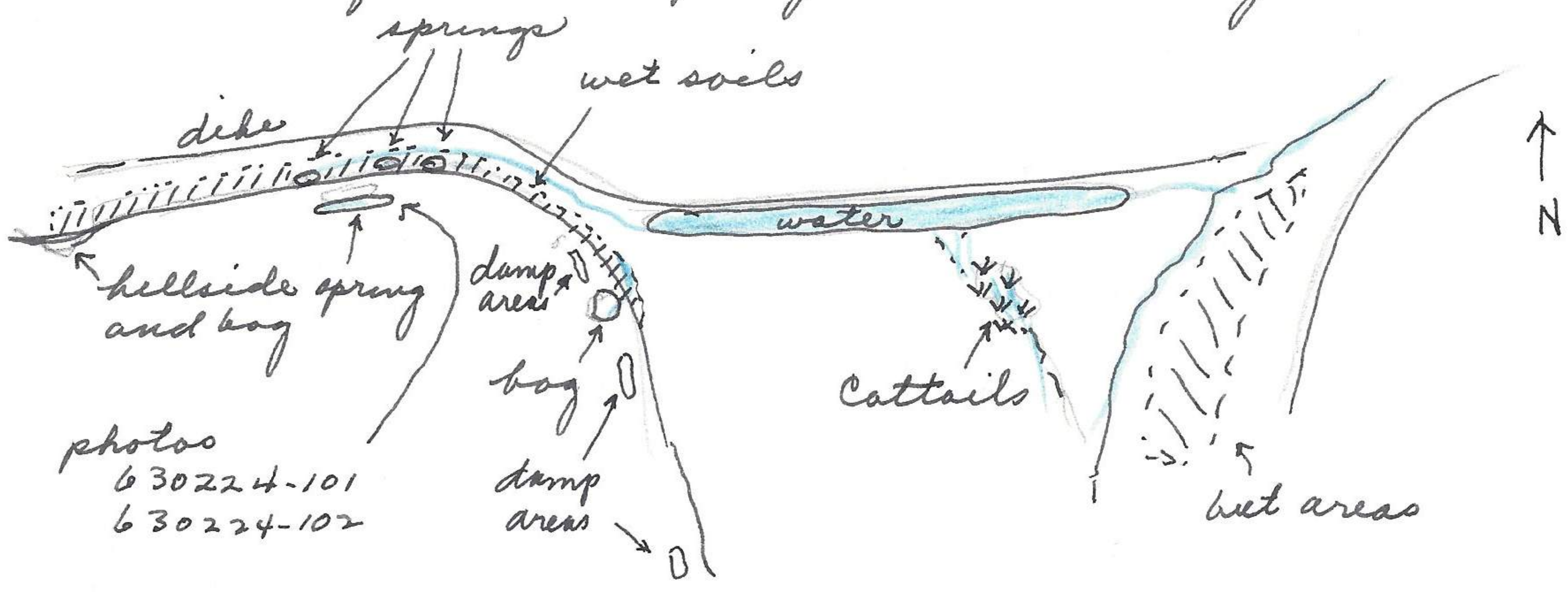


8600 ft W and 2500 ft. S Clinton (center), Douglas Co., Kansas.

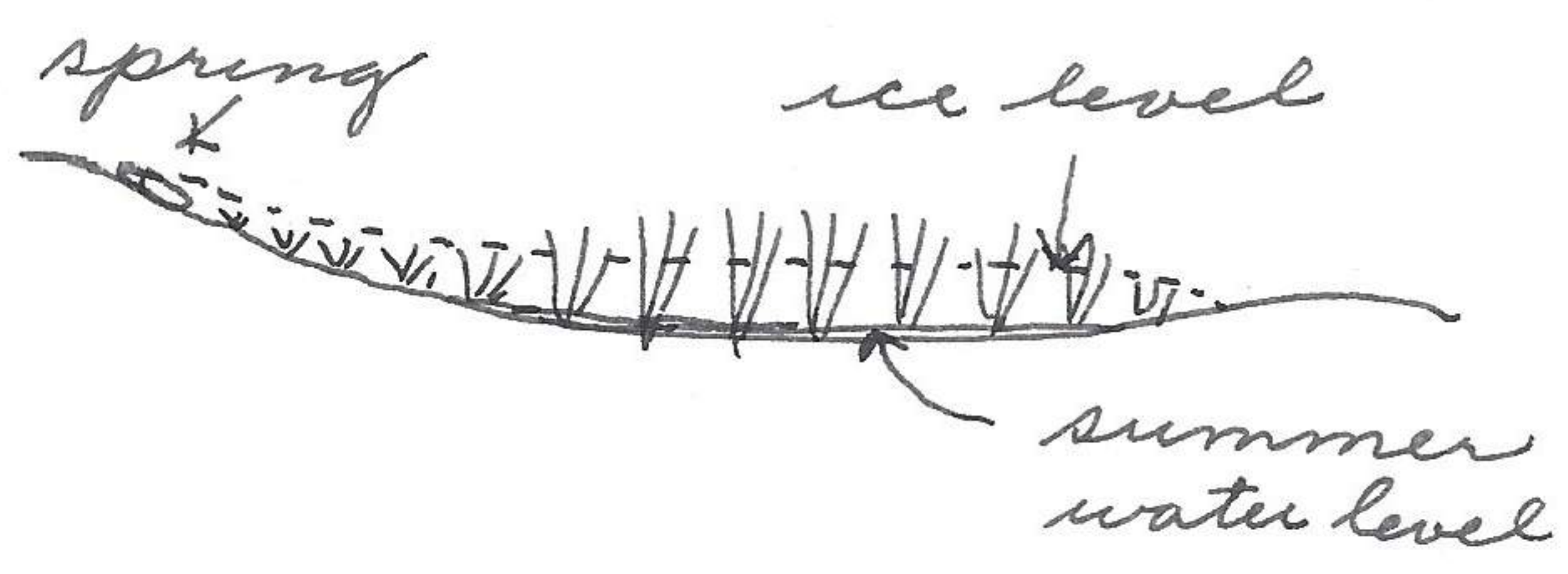
Feb 24, 1963

(See previous notes for Center of Clinton). Annette M and I photographed ice mass of sidehill spring at this locality.

Feb. 24, 1963

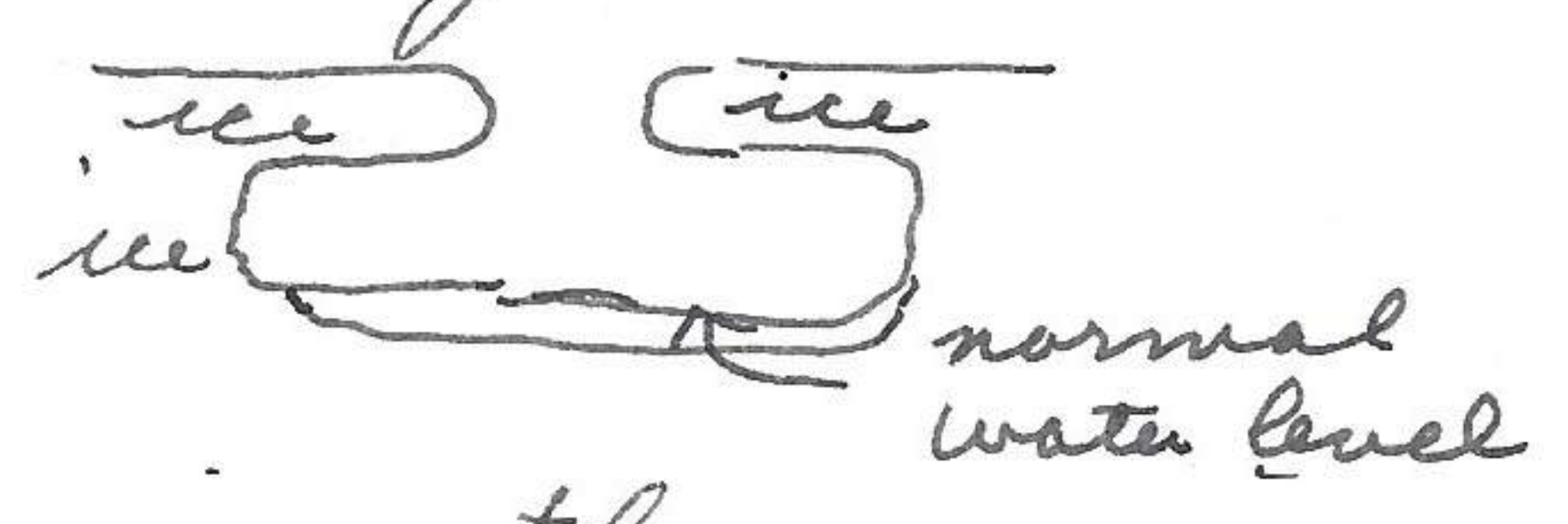


(See previous notes on these springs. Photos 630224-101 and 630224-102 showing ice mass built from water of spring. All water had accumulated in ice and none had flowed down hill. There are some grasses and sedges and considerable moss covered soils but cattle have interrupted the normal plant and animal community. I doubt whether small mammals are present because of the trampling effect. Perhaps in summer where more overhead protection is available, mammals will use this area. At base of hill the several springs have placed ice over the plant community and sealing in the vegetation with solid ice. This ice mass effectually excludes all small invertebrates. Some ice is 1 1/2 feet thick. The



water freezes and build up a mass of ice with well defined peripheral edges. This same type of freezing has occurred in small creeks where ice build up

and surface are flow surfaces like the viscous lava fields. These ice masses in creeks are the last to melt and are conspicuous with surrounding slopes bare. Several drainage courses, particularly slow draining, have an upper level of ice which formed at the highest level of water



accumulation. On this date the ice is breaking through and exposing the new ice formed on bottom of creek bed. Water now is relatively