

150'
E_N of house with woodrat nest inside (collapsed), red admiral butterfly.
3:48 oak 5'10" cir. Car 3:50 P.M. Turkey vulture. Have noticed the woodland phlox, *Phlox divaricata* all along route, especially lower slopes. The Rue Anemone, *Synedemon thalictroides* also common throughout area (sepals thin, white and petallike.)

Overflow Cut, Clinton Reservoir, Douglas Co., Kansas

May 5, 1979

Annette and I check stratigraphy on cut of overflow channel for Clinton Lake. Photo 790505-1 of all sections on north wall. Photo 790505-2 of upper massive cliffs (Pottersmouth) on N side. Photo 790505-3 Toronto limestones on south side of cut. Members represented on walls are: Hennicker shale, on top Pottersmouth; Pottersmouth limestone, light bluish gray weathering brownish, wavy-bedded, some chert. Heebner shale, thin bed gray or yellow clay shale, black platy shale (thickest), dark bluish gray shale, calcareous clay shale in sequences from top to bottom, good datum marker. Leavenworth limestone dark bluish gray weathering to light brown, dense, single bed closely spaced joints, Snyderville shale, gray to bluish gray, red, and green claystone & shale. Toronto limestone brownish-gray weathers deep brown. Lawrence shale (upper part) gray shale, sandstone (weathers yellowish-gray, red shale, gray limestone and conglomerates.

Examined deer track 86 mm, deer use top of ridge for N-S movement. 150 cormorant in several smaller groups pass

S overhead to reservoir beyond.

Photo 790505-4 Toronto sandstone centered with shales below & above.

" 790505-5 Toronto sandstone with Snyderville shale, Leavenworth limestone, Heebner shale and part

" 790505-6 " " " "

Pottersmouth top

" and

Pottersmouth bottom

402 Yorkshire Dr, Lawrence, Kansas

May 6, 1979

First western kingbird at home this season.

South Side Rack Creek Bay, Clinton Reservoir, Douglas Co., Kansas

May 7, 1979

(COUNTY RD 460)

Returned to area of the bridges that cross the upper arm of Rack Creek Bay and the one that crosses the Wakarusa River. (peripheral Corps Engr road the circumtraversed the south side of Reservoir. The objective is to record the stratigraphy of the road cuts associated with the bridges and road building. From several exposures compiled a stratigraphy of the lower part of the Leecompton limestone to the upper part of the Lawrence Formation. (include parts of Shawnee and Douglas Groups)