

Geneva Steel Plant, west of Orem, Utah 470417-28

April 17, 1947

county, Utah

Dr. E. Eldon Beck and myself visited the gull (*Larus californicus*) colony on the dike of the steel plant cooling reservoir. The first egg was found today. Five pairs were observed copulating at one time. Many nests excavated and lined. The waters of the reservoir were being contaminated with a ^{copper} sulphur compound which made the water a brilliant green. The fish were dying immediately which supplied the gulls with some feverish activity. The green reflection upon the ~~underside~~ ^{underside} center of the gulls made an unusual site. Almost mystical. This operation is repeated periodically to eliminate the fish and algae. Observed 1 Red breasted merganser, 6 ruddy ducks and 1 pair of mallard ducks.

Arches National Monument, Grand Co., Utah

April 24, 1947

Five days at the Arches National Monument doing biological and geological investigations. Dr. C. Lynn Hayward, Dr. Bertrand Harrison, Dr. George Hansen, Dr. E. Eldon Beck, Oliver Smith, ^{Red Biddulph} and myself made up the party. (see field report to follow) Additional notes are as follows: Departed Provo in Smith's 12 passenger car at 2:00 P.M. The profile of eroded cliffs south of Price and to the east suggest old canyon having been formed on plateau and now exposed in cross section as:

are left high above the bald cliff face as a result of the cliff erosion. Two erosional levels are present from the plateau to the present valley floor and might suggest two periods of pronounced erosion.

The could possibly be correlated with the pleistocene glacial periods. Evidence of more recent bench building on valley floor where outwash accumulations have formed long even terraces and benches across the valley.

The only birds observed in this area are the Raven and horned lark. Arrived Greenriver at 5:00 P.M. at the north end of the monument observed 1 raven, several horned larks and a hawk sp? but probably red tailed. Arrived monument Headquarters at 6:20 P.M. Elevation 4,500 ft. Camped on the lawn of headquarters after visiting with the caretaker.

Arches National Monument, Grand Co., Utah. (continued)

April 25, 1947

From Headquarters drove to moab for breakfast. On return and at a point a mile before crossing the Green River, photographed a typical scene of the country side in no. 10-4-25-49. Arrived at headquarters and horse ready for departure. Destination, Clear Spring, where