

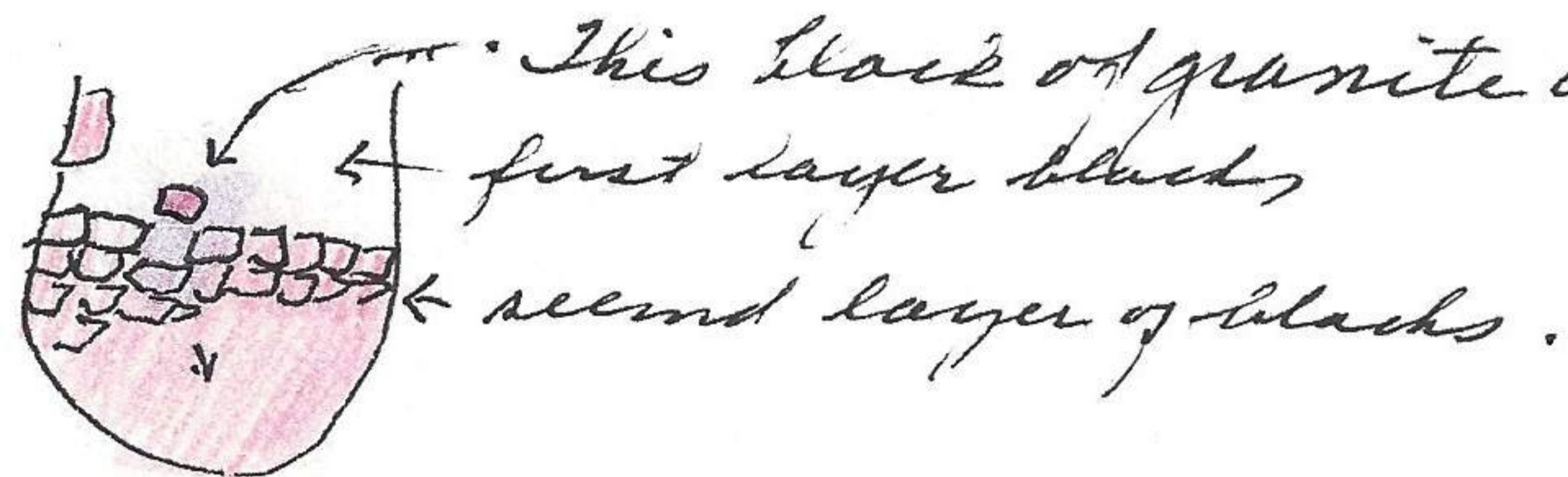
dune, the beach and 100' out into water. 54 laughing gulls flew NE, 80 laughing gulls flew SW or 134 gull pass thru 10x field of binoculars from camp no 34. Barn & tree swallows all travelling NE, most least terns to SW.

To hike NE to channel thence SE to end of rock jetty on NE side of W side of channel & breakwater. From bridge to beginning of breakwater, 8 laughing gulls, 2 common tern, 3 great blue heron, 6 black skimmers, 1 black-bellied plover, 1 sanderling, 8 royal terns, 1 least tern, 1 ruddy turnstone.

From beginning of breakwater to what would be the line of shoreline (in canal area), 2 great blue heron, 21 laughing gulls, 2 ring-billed gulls, 1 herring gull, 3 cormorant, 2 black bellied plovers, 18 royal tern, 1 willet, 6 sanderling, 6 least tern, 1 gull-billed tern. In this area on sandbar from fisherman of barrier beyond were 521 aluminum beer cans.

On SW side 200' from water 80 laughing gulls, 33 royal tern. On barrier (W one) and on both sides of this barrier were: 1 gull-billed tern, 1 Forster's tern, 1 common tern, 8 least tern, 1 ruddy turnstone, 1 sandwich tern.

At SE end of barrier where granite blocks were piled 2' high, one upper block was moved 8 feet by wave action.



This block of granite was 4' x 4' x 7'.

In some cases feldspar erodes least and stands up in relief  $\frac{Feldspar}{\text{Silicate}}$ .

checked birds on edge water from barrier to pole barrier at SW end of picnic area of beach: 5 laughing gulls, 1 willet, 5 sanderling which is actually a depauperate condition for what it should be for shoreline on the gulf.

Observed least tern copulate. ♂ followed female at 3-4' intervals and at last stop. ♀ remained in one position for 5 minutes with ♂ behind her and toward her side and continually moved head from right to left & back as did the ♀. The ♂ held a fish in its mouth the entire period. ♀ occasionally reach up to head of male. ♂ made several false steps toward her body. After 5 minutes the ♂ took stand on ♀ but female left ♂ and flew. The male with small 1" fish in his mouth followed.

Black skimmer extend wings upward until they nearly touch above when stretching ↓

Crabs excavate holes in sand and bring up balls of sand