June 3, 87.

Clauodcroft dyes the water in turquoise last night.

With Mr. Cadwallader, we went to Malpais springs. We had considerable difficulty finding the proper road after we left Mr. Truman Francis's ranch at Three Rivers. It took us long to find the proper roads, that naming had to be skipped.

Malpais springs: E kur. 7310, located at SW end of Malpais: T 42 S R 7 E

The water emerges from under the cliff and forms a pond about 15 x 20 feet in area up to about three feet deep. Water clear with algae. Bottom nict with mud in a few places where the vegetation and cow droppings accumulat. Vegetation was moderately abundant, the sides being bordered by Siringus and with Potamogetum forming some fairly good sized patches. Snails and snails were very common. Dragonflies of several species were flying about.

The 84 water in pond 64 in spring (a hole in ground through which water could be reached, 60) 1330

Springs moderately common to abundant. Not especially large.

No signs of young or spawning.
June 3, 47th.

Ponds between Malpais Spring and Salt Creek.

T12S R6E. *

Shallow ponds with an unconsolidated bottom. One
measured about 300 yds x 100 yds and probably
reached a depth of 3-4 ft although we did not
get that deep, staying in a shallow water for Gupper
which was moderately common. Young were
abundant. Bottoms soft, water clear white. Veg.
a sparse growth of Eleocharis. I726 W 78
at about 1500

* Ept 17.52 - Our field notes indicate - 1 mile S of Malpais
Spring.

Went on to Salt Creek. Exact region not known
but south & west of the ponds & Malpais spring
probably in T12S R6E.

A small stream with slight ripples and
long shallow pools, clear white saline water,
soft and sand bottom. Width 15-20 feet,
inside up to 60 miles deep. A 86 W 76 at 1715.

Served for a short time only because it was
late and we had to return to Cadwallader. We
had made as many false turns during the
day and the going was so rough that some time
was wasted. (on the direct return trip)

The mileage from Salt creek where parked to
the turn off for Malpais was over 6 miles, from
this juncture to the Tunuck Spencer Ranch 16 miles.
Total 22 miles.

Returned to Mountain View and camped at Cloudcraft.