

GOOD HOPE
BAY

POWELL

GLEN CANYON

Cliff

NATIONAL

RECREATION

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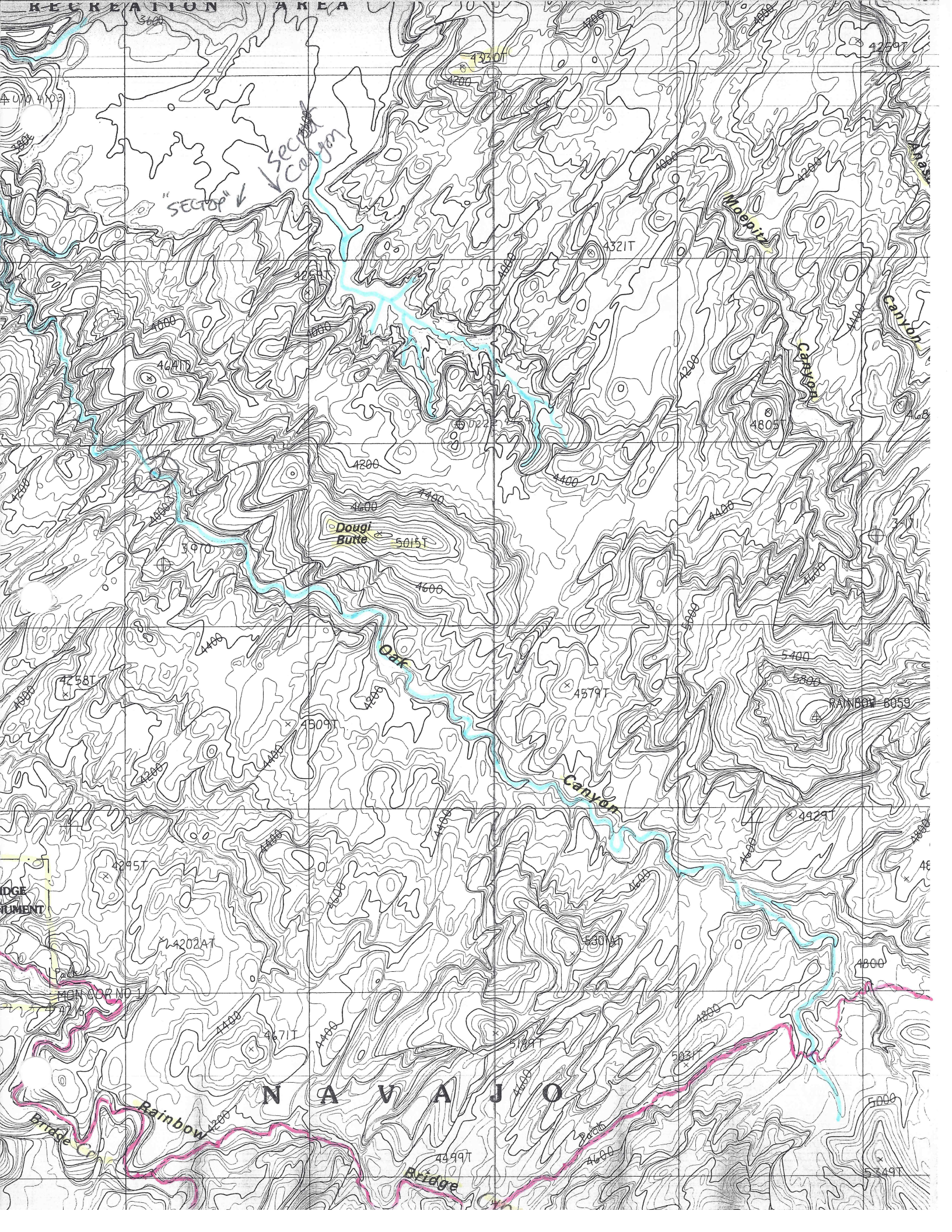
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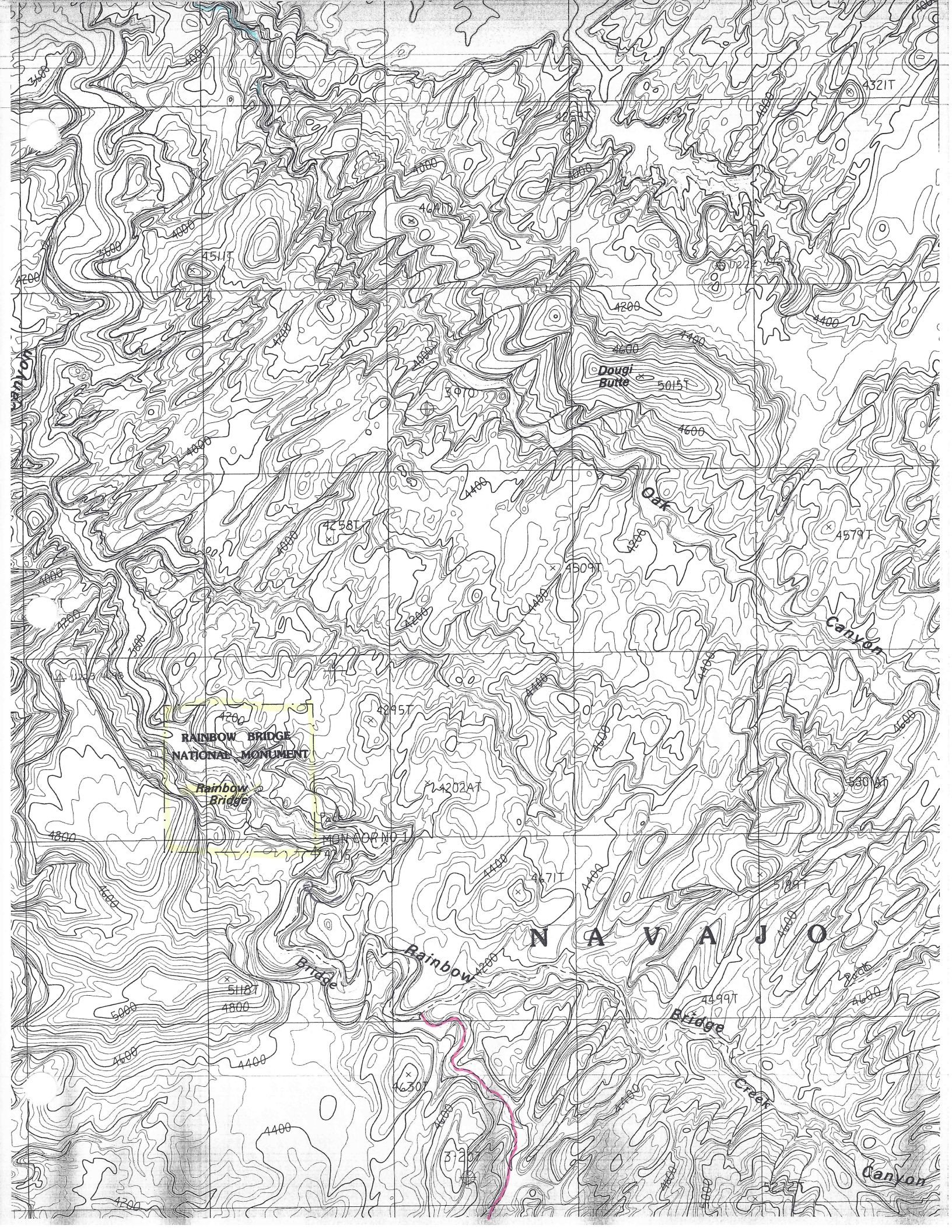
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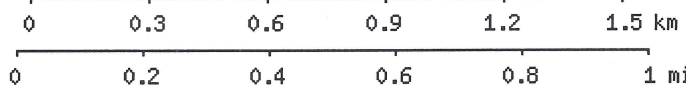
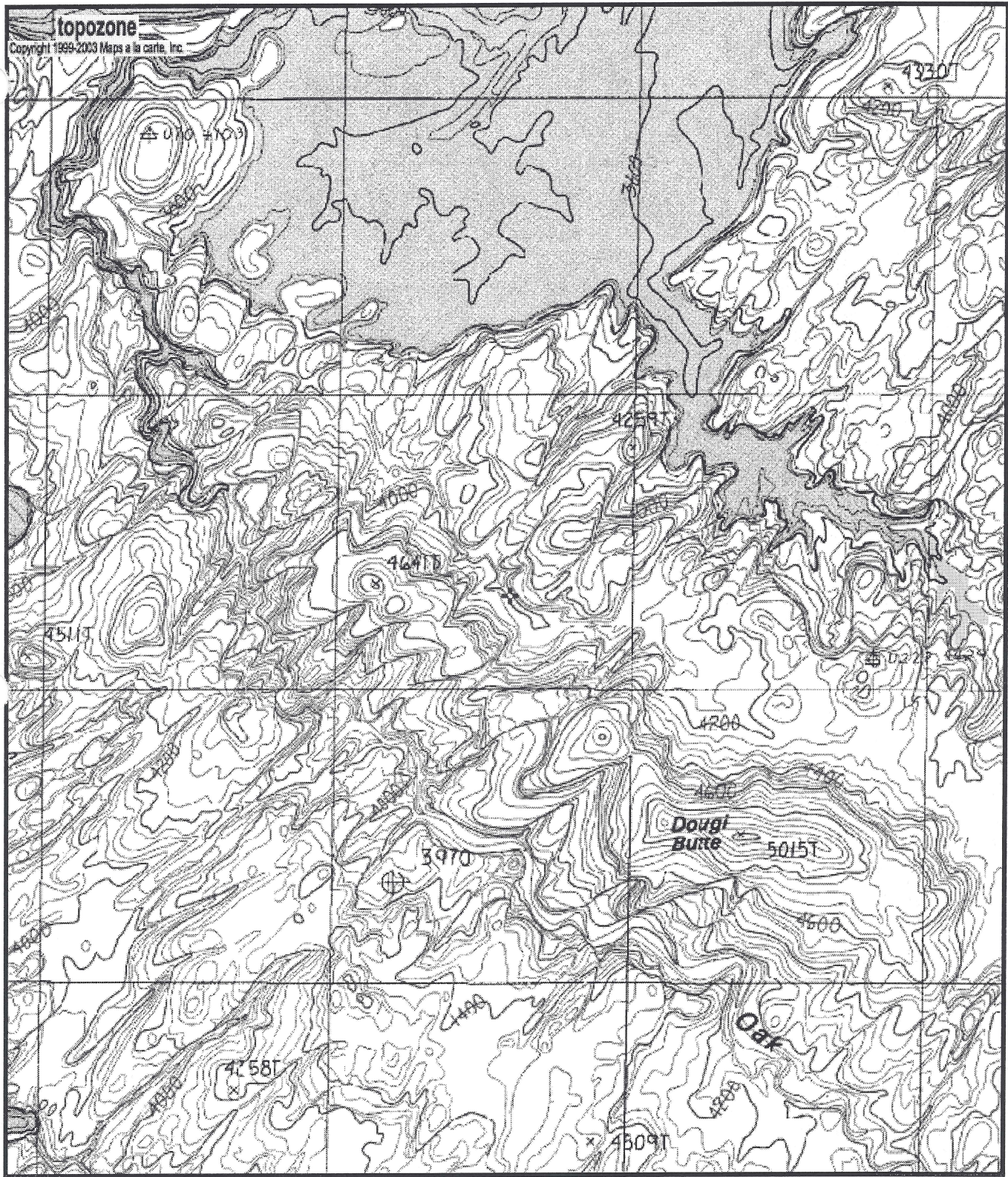
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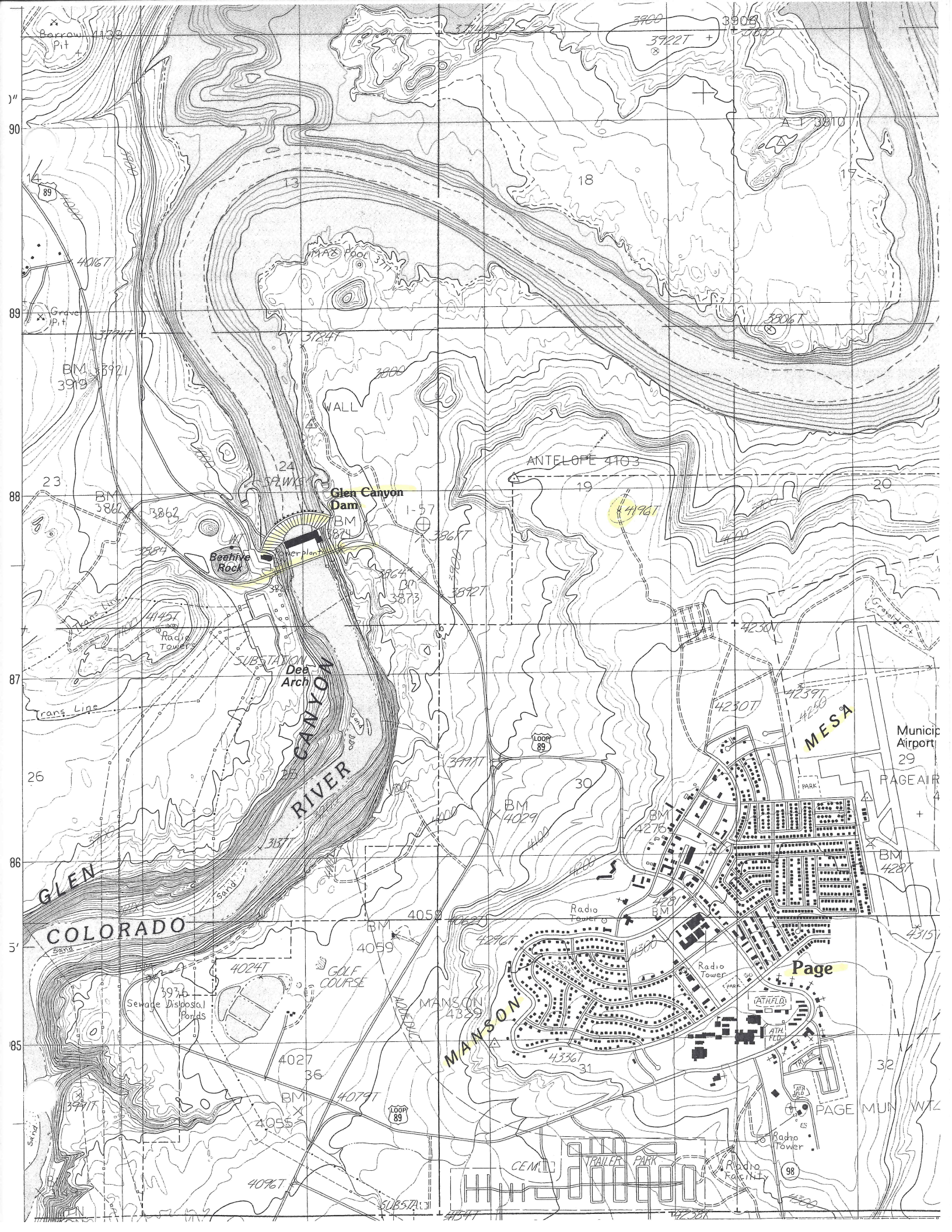
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Map center is UTM 12 504487E 4106521N (WGS84/NAD83)
Rainbow Bridge quadrangle
Projection is UTM Zone 12 NAD83 Datum





Borrow Pit

90

89

BM 3921
3919

WALL

ANTELOPE 4103

Glen Canyon Dam

Beehive Rock

SUBSTATION
Dee Arch

CANYON RIVER

GLEN COLORADO

26

86

5

Sewage Disposal Ponds

GOLF COURSE

MANSON

85

5

CEMETERY

TRAILER PARK

Page

MESA

Municipal Airport

PAGE AIRPORT

BM 4287

(ATHFLD)

ATH FLD

ATH FLD

ATH FLD

Radio Tower

Radio Tower

Radio Tower

PAGE MUN WTZ

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Les George Point

SCORPION

Stevens

NATIONAL

Escalante

Stevens Natural Arch

Gulch

Blower River

Calore

Escalante

Lake

Fortymile Ridge

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25'
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4139
4138

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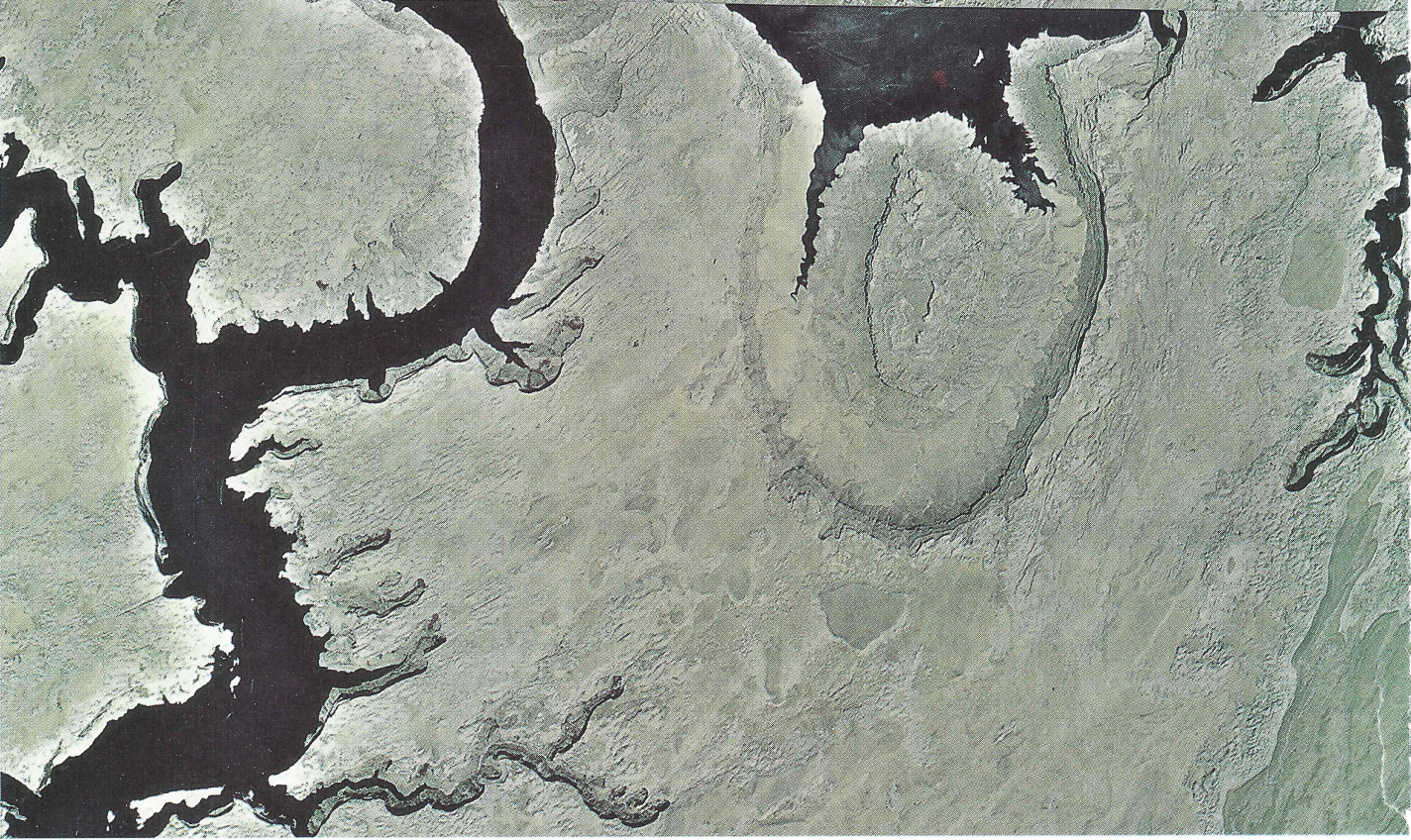
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AERIAL PHOTOGRAPHS

The majority of the aerial photographs in this laboratory manual come from the National High Altitude Photography (NHAP) and National Aerial Photography Program (NAPP) collections at the EROS Data Center. These two series of images were taken from airplanes flying at altitudes of 20,000 to 40,000 ft along transects which systematically criss-crossed the entire United States. The spacing between exposures along these transects was sufficiently close so that there is approximately 60 percent overlap between adjacent images. The images are all **vertical** images, in which the center of the photograph is directly beneath the plane rather than at an **oblique** angle to it (Fig. 5-11). The remaining photographs were taken from the space shuttle and the Landsat satellites during Earth orbit.

Some of the color aerial photographs in this laboratory manual were taken with special lens filters and films which are sensitive to ultraviolet and infrared wavelengths of light (which are not visible to the human eye). This nonvisible radiation is recorded in **false-color images**, in which the true colors of surficial features are replaced with other colors. For example, the type and density of vegetation are usually indicated by various shades of red; water bodies are colored various shades of blue (light blue when they are muddy, dark

blue when they are clear); and deserts and cities appear in dark gray and black shades. False-color images are also useful for identifying and mapping soil and rock types, prospecting for water and mineral resources, measuring areas of urbanization and deforestation, and other similar purposes.

STEREOPHOTOGRAPHS

The aerial photographs in this laboratory manual are usually presented in the form of **stereophotographs**, an example of which is shown in Figure 5-12. A stereophotograph consists of a pair or triplet of overlapping aerial photographs taken at the same altitude. When such overlapping images are viewed through a specially designed pair of glasses called a **stereoscope**, the slight difference in their angles of perspective (Fig. 5-12) allows the eyes to sense their depth and perceive the relief of the surface. The brain processes this information by merging the two separate flat images into a single three-dimensional image, giving the viewer the amazing perspective of looking straight down at the ground from an airplane.

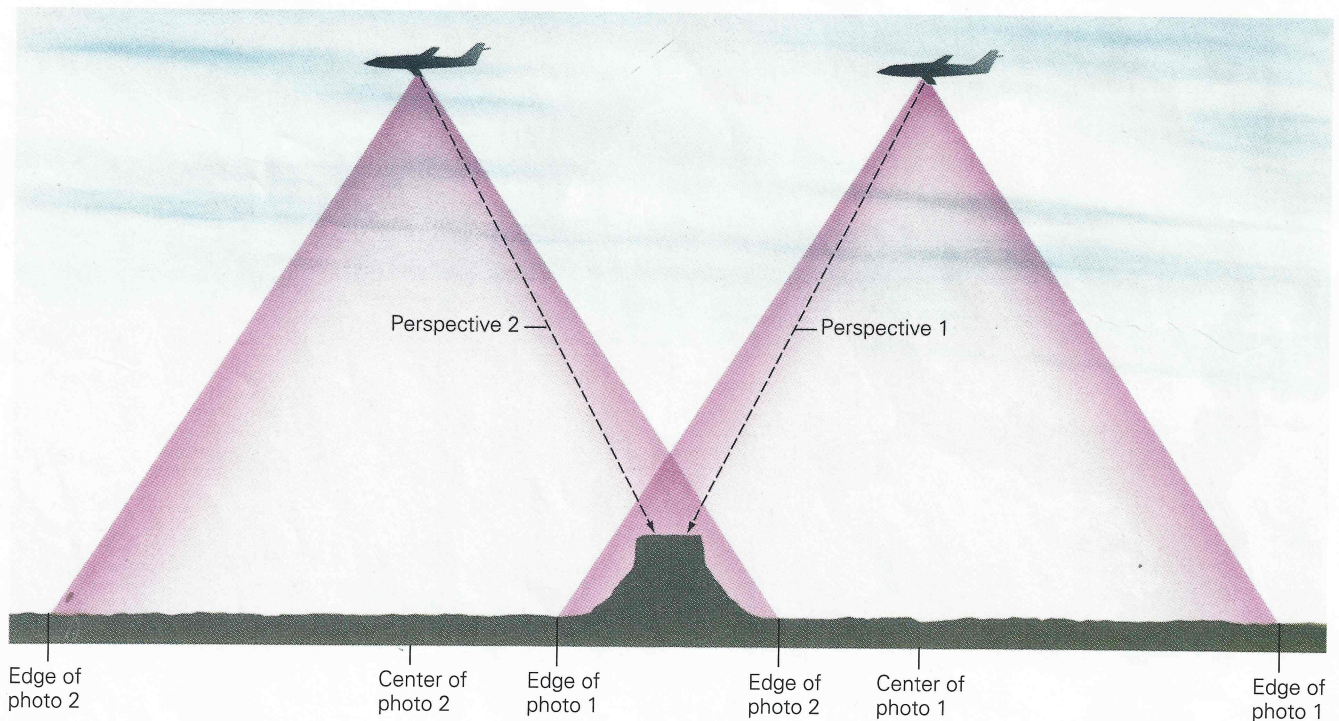
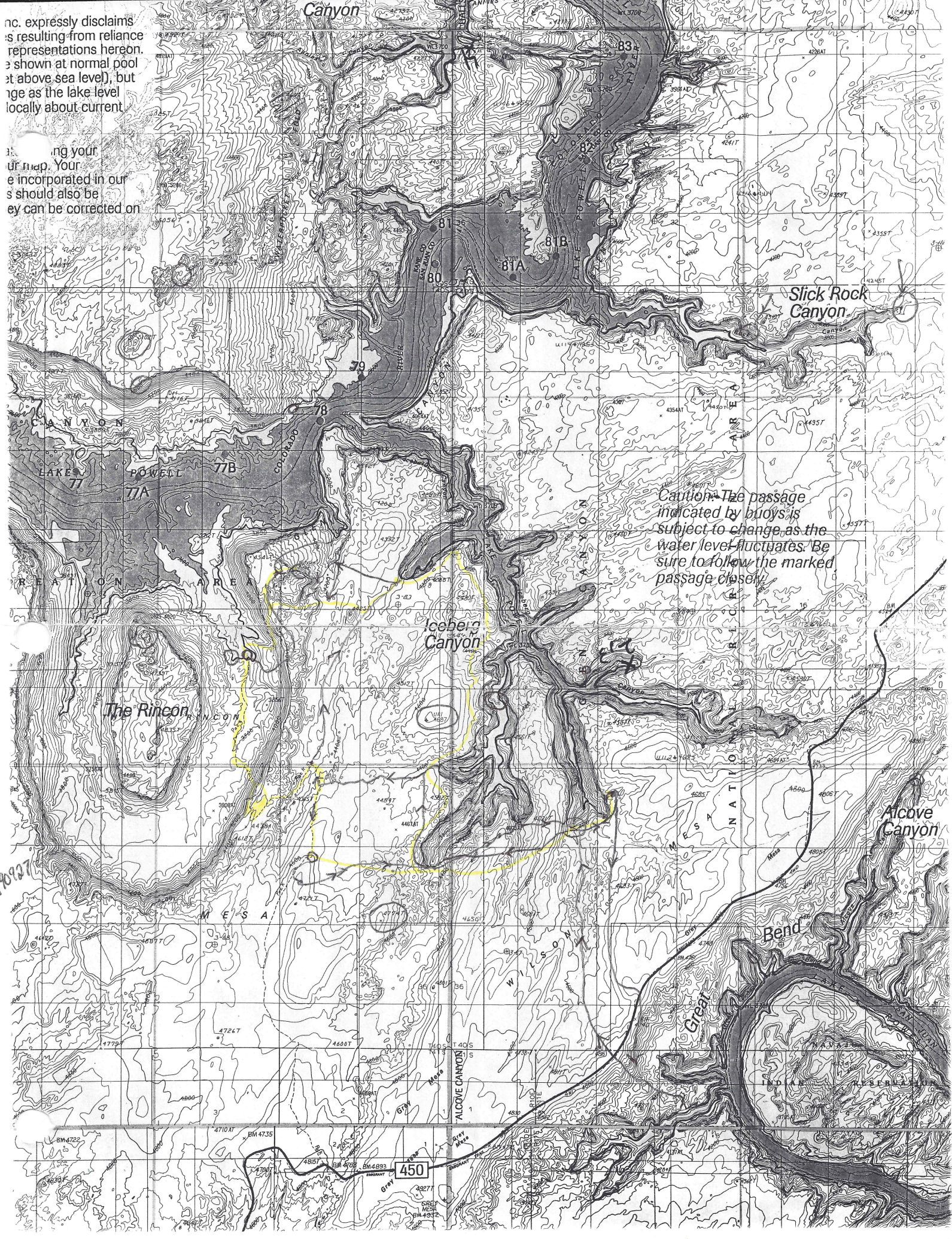


Figure 5-11 The perspective and overlapping of adjacent aerial photographs along an aerial transect. The two different perspectives on the feature of interest will produce a three-dimensional image when the photographs are viewed with a stereoscope.

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Caution: The passage indicated by buoys is subject to change as the water level fluctuates. Be sure to follow the marked passage closely.

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