

HOLMES & HARVER, INC.
PACIFIC SOUTHWEST REGION
ENGINEERS-CONSTRUCTORS

TO: UNITED STATES GOVERNMENT
FROM: R. A. DOETTCHER
RE: COORD. FIELD SKETCHES DOG TIRU GEORGE

DEPARTMENT OF ENERGY	
SINGLE REVIEW AUTHORIZED BY AASIS/Sgull/7-23/6	DETERMINATION (CIRCLE NUMBERS) 1. CLASSIFICATION RETAINED 2. CLASSIFICATION CHANGED TO 3. CONTINUED 4. DECLASSIFIED (NFO)
REVIEWER (ADD): NAME J.D. Lopez 7/30/60	DATE: 27 JULY 1953
Transmitted herewith are:	CLASSIFICATION: CONFIDENTIAL

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Field Sketches 5013 and 5015

The coordinate development for 5013 etched field sketch was based on the Preliminary Plane Coordinates of Navy Triangulation Station 5013 and adopted magnetic bearing. When the Preliminary Plane Coordinates bearing was projected into the traverse, it differed from the magnetic bearing. This difference results in a difference in coordinates of P.I. Dog. The effect of the coordinates derived from the magnetic bearing.

The new values were developed from the traverse on grid on Tie, Site Fox, Sheet T-2 (3 copies of which were submitted to the office) was made. Field Sketches 5013 and 5015 were revised at the same time. Due to shortage of Ozalid paper, prints have just been made and the drawings are in black letter.

A tentative coordinate location of cable terminal building on Site Dog was given in David L. Harver Jr. memorandum 1288. Using the revised coordinate grid, the location plotted over 100 ft. off center. The Harvsg 237' situation was described and new coordinates suggested for the revised coordinate.

If the scientific program for Site Dog thru George had no relation requirements to other locations, it would be possible to adopt the coordinates based on the magnetic bearing. However, we have to check carefully since the tower on Site Nan is oriented to bisect the angle between the 100' off site. The station 50 on Site Tare. This would indicate that the coordinates for Site Dog should be in the same grid.

It is realized that the new coordinate values based on the Harver 1953 triangulation will make changes in the coordinates of the U.S. Navy triangulation system. However, the change in angle of the tower will be well within the limits of requirements. The new coordinate system is now in progress on 3 sites and their location will be plotted on the Preliminary Plane Grid system prepared by the Harver.

Your early consideration of the new coordinate values will be of great help to the scientific stations in the field. The new coordinate values will be used if you decide to use our revised values. If you decide to use the old values, the drawings will require revision.

R. A. Doettcher

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cc: HC Chrono & Gen. rd
OS Chrono & Gen. rd
OS Engineering (Surveying)

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