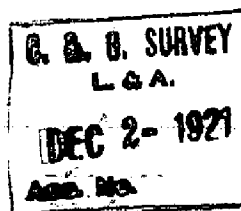


3845



Form 504
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

State: *California*
11-5813

DESCRIPTIVE REPORT.

Topo Sheet No. 3845

LOCALITY:

Western Coast of California
Middle Rock to
Pt. Delgada (Shelter Cove)

184

CHIEF OF PARTY:
E. H. Pughart

3845

TOPOGRAPHIC SHEET "A". 1:20000

This sheet was made for the purpose of re-locating and establishing permanently marked stations along the coast of Northern California, from Shelter Cove to Bear Harbor. These re-located and newly established stations being needed to control the additional development on Tolo Bank.

The party, consisting of one officer, as Chief of Party, and 3 men, was landed and began the work on April 12, 1921.

△ "Bight Knoll" was recovered and occupied, orienting on Bear Harbor and resecting on "Shelter Cove" and "Colona Cliff". Cuts were taken to all stations established to the South along the shore as far as "Bear Harbor" and to a plane table position established on Ray Point. △ "Shelter Cove" was then occupied in the same manner. The Ray Point position was occupied and table oriented on "Bear Harbor", re-secting on △ "Chinese Mountain", △ "Shelter Cove" and △ "Colona Cliff". Cuts from the three occupied positions intersected on and established the identity of △ "Black Rock", △ "White Rock" and △ "Needle Rock". These stations were located by former triangulation and already plotted on the sheet for control of traverse, they being equidistant each from the other between Ray Point and △ "Bear Harbor".

The table was then set up on "Black Rock" and traverse run down the coast, establishing "Ed", "Edge", "Bill" and "Jack" and checking out on △ "White Rock". Traverse continued from △ "White Rock" south, establishing "Shale" and "Swag" and checking out on "Needle Rock". All traverse checked to ten meters on triangulation stations.

Traverse was discontinued at "Needle Rock" and △ "Bear Harbor" was occupied with table orienting on △ "Bight Knoll" and resecting on "Cliff Ridge". Cuts from △ "Bear Harbor" checked the positions of the above named stations. The observing work was then complete and all hands moved to △ "Cliff Ridge" which was covered with white wash for an off shore signal. *Eight miles of shore line was re-run and checked.*

On the morning of April 22nd the party returned to Shelter Cove and began hourly tide reading and high and low water readings on the plain staff established there. This was continued until the ship took party off on April 30, 1921.

Aeroplane Landings

The smaller type of aeroplanes may make safe landings on the fields and pasture lands of the flat to North of Shelter Cove, due caution being observed in locating the numerous fences and the stage of growth in the fields. Shelter Cove can be easily identified from the air by a study of the topography of the coast, the long dock and dock houses in the cove, and the 3 sheds stretching to seaward on Ray Point.

* See recovery notes.

William T. Combs
Wm. T. Combs,
Jr. H. & G. Engineer.

Please note positions

STATISTICS TO ACCOMPANY TOPOGRAPHIC SHEET A.

OBJECT	LAT.	D.M.	LONG.	D.P.	HEIGHT	REMARKS
Bowden's Shed	40-01	624.0	124-04	35.0	---	S.W. Gable
Ed	40-01	60.0	124-02	736.0	12'	Hyd. Mark top of rock.
Edge	40-00	686.0	124-01	1004.0	14'	Top of rock whitewashed.
Bill	40-00	498.0	124-01	844.0	15'	Hyd. Mark top of rock.
Jack	39-59	1082.0	124-00	1329.0	17'	Hyd. Mark top of rock.
Shale	39-58	59.0 ^{184.0}	124-00	199.0 ^{223.0}	80'	Whitewash on Cliff.
Swag	39-58	738.0	123-59	1012.0	20'	Hyd. Mark top of Rock.

RECOVERED TRIANGULATION STATIONS

~~Galena Cliff~~
Shelter Cove.
Bight Knoll.
Black Rock.
- Chinese Mtn.*
White Rock.
Cliff Ridge.
Needle Rock.
Bear Harbor.*

*Not Visited.

*See Recovery notes

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
WASHINGTON

SECTION OF FIELD RECORDS

REPORT ON TOPOGRAPHIC SHEET No. 3845.

Surveyed in 1921.

Chief of Party: E. H. Pagenhart

Surveyed by W. T. Combs.

Inked by F. L. Gallen and W. T. Combs.

1. The records as well as the plan and character of the work fulfill the requirements of the General Instructions except that the magnetic meridian is not shown.
2. The plan and extent of the survey satisfy the specific instructions.
3. The field drafting was completed to the extent prescribed in General Instructions.
4. No further surveying is required within the limits of the sheet.
5. The character of the surveying is good and the field drafting fair.
6. Reviewed by E. P. Ellis, December, 1921.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

Sheet "A"

The finished Topographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. 3845

State . . . California

General locality . . . Northern Coast of California . . .

Locality Needle Rock to Pt. Delgada
~~Shore line, Bay Point, (Shelter Cove), South to "Needle Rock"~~

Chief of party . . . E.H. Pagenhart

Surveyed by . . Wm. T. Combs

Date of survey . . April 12th to 21st, 1921

Scale . . 1:20000

Heights in feet above

Contour interval feet.

Inked by FLG.
WTC. Lettered by . FLG. & WTC.

Records accompanying sheet (check those forwarded): Photographs,

Descriptive report, Horizontal angle books, Field computations,

Data from other sources affecting sheet

Remarks:

This sheet was made to locate and check additional signals for development of Tolo Bank.

Solid inked line shows shore line as run and checked, a distance of 8 miles.