

4448

4448
8777

Form 504 DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY
State: <u>Cal.</u>
11-5012
DESCRIPTIVE REPORT.
Hydrographic Sheet No. <u>4448</u>
LOCALITY:
<u>San Nicolas I.</u>
<u>E. End</u>
<u>1925</u>
CHIEF OF PARTY:
<u>RR. Lukens</u>

DESCRIPTIVE REPORT

Topographic and Hydrographic Sheet
of
East End of San Nicolas Island

Steamer PIONEER

1925

R. F. Luce, Comdg.

SCALE AND LIMITS OF SHEET: This sheet is standard topographic sheet paper, 30 x 30 inches. The scale is 1:10,000. It includes the topography of the ~~topography of the~~ East End of San Nicolas Island, together with the hydrographic investigation of the sand spit which extends about one mile eastward from the island proper. This area lies between 33°- 12' and 33°- 16' North Latitude and 119°- 23' and 119°- 27' West Longitude.

CONTROL OF SURVEY: Seven small signals were built around the end of the island and located by plane table to control the hydrography. Triangulation Station ~~Spa~~, on this end of the island was recovered and located on the topographic sheet. Since no other triangulation station could be recovered the magnetic meridian was used to orient the topography on the projection. (Declination 16°- 25' east, see chart No. 5202). Hydrographic signal "End" was built over a brass plug set in lead in a square stone monument, with three witness marks. No name or coordinates could be found in the report of the Superintendent for 1904. *for this point.*

GENERAL DESCRIPTION OF SHORE LINE: The permanent shore line, from \odot Bluff around to \odot End consists of broken and irregular cliffs of sand or sandstone varying from ten to forty or fifty feet in height. There are a few flat rock shelves which are also soft sandstone.

The sand spit, six hundred meters broad at the permanent shore line, extends about one mile to the eastward running out in a sharp point. This spit is low and flat, and heavy storms break over it as evidenced by the drying kelp with which it is covered.

HYDROGRAPHY: Hydrography was executed to determine the extent of shoal water off the spit. 800 ~~hundred~~ meters off the point, at the inner edge of a large kelp patch there was found to be six fathoms, though a channel nine fathoms deep runs between this kelp patch and the spit. At the outer edge of the kelp patch eight fathoms was found, increasing to eighteen fathoms 700 meters farther off.

Along the north and south sides of the spit the depth increases evenly to ten fathoms about nine hundred meters off shore. In ordinary weather breakers extend about three hundred meters off the end of the spit where there is less than one fathom of water.

The spit affords shelter from north west weather for small craft.

Respectfully submitted,
Chester L. Hyman.

STATISTICS SHEET

for

HYDROGRAPHIC SHEET _ - - EAST END OF SAN NICOLAS ISLAND

Date	Letter	Positions	Soundings	Statute Miles	Vessel
Feb. 10	a	40	105	6	Motorsailer
Feb. 11	b	91	187	11	"

List of D. M. and D. P.

for

TOPOGRAPHIC SHEET

EAST END OF SAN NICOLAS ISLAND

Station	Latitude	Longitude	Remarks
Bluff	33 13 643(1205)	119 26 333(1221)	Tripod, w.c.
Mid	33 13 1200(648)	119 25 1423(131)	Drift wood, w.c.
Point	33 13 1386(462)	119 25 620(934)	Tripod, w.c.
Box	33 13 1574(274)	119 25 1475(80)	Drift wood, w.c.
Mike	33 14 305(1543)	119 26 392(1162)	Tripod, w.c.
San	33 14 954(894)	119 26 1056(497)	Drift wood, w.c.
End	33 14 1384(464)	119 26 1339(214)	Tripod, w.c.

Signal End is marked by brass plug in rock, three witnesses.

April 27, 1925

~~Division of Hydrography and Topography~~

Division of Charts:

Wide reductions are approved in
volumes of sounding records for
4448

HYDROGRAPHIC SHEET

S. E. End San Nicholas Island, California.

Locality:

R. E. Lukens in 1925

Chief of Party:

mean lower low water and in

Point of reference is

San Diego, California.

ft. on tide staff at

For reduction of soundings, condition of records satisfactory
except as checked below:

1. Locality and sublocality of survey omitted.
2. Month and day of month omitted.
3. Time meridian not given at beginning of day's work.
4. Time (whether A.M. or P.M.) not given at beginning of day's work.
5. Soundings (whether in feet or fathoms) not clearly shown in record.
6. Leadline correction entered wrong column.
7. Field reductions entered in "Office" column.
8. Location of tide gauge not given at beginning of each day's work.
9. Leadline corrections not clearly stated.
10. Kind of sounding tube used not stated.
11. Sounding tube No. entered in column of "Soundings" instead of "Remarks".
12. Legibility of record could be improved.
13. Remarks



Chief, Division of Tides and Currents.

Report on Verifying and Inking N. 4448.

The records and notes were well kept. The field drafting, protracting and plotting were excellent.

The topography and signals are based on a single triangulation station and the magnetic declination.

July 16, 1925.

F. M. Albert.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WASHINGTON August 5, 1925

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4448

East End of San Nicholas Island, Calif.

Surveyed in 1925

Chief of Party, R. R. Lukens.

Hydrography surveyed by C. J. Iiter. Topography surveyed and inked
by C. L. Nyman.

Protracted and soundings plotted by C. L. Nyman.

Verified and inked by F. M. Albert.

1. The records conform to the requirements of the General Instructions.
2. The plan and character of development conform to the requirements of the General Instructions.
3. No written instructions appear to have been given for this survey.
4. The sounding line crossings are adequate.
5. The usual field drafting was done by the field party.
6. The junctions with the previous topographic and hydrographic surveys are satisfactory.
7. The sand spit contains two small areas enclosed by dashed lines. It cannot be understood whether these areas are land or water.
8. This sheet shows remarkable and unusual changes in shore formation.
9. The projection on this sheet depends upon one triangulation point and estimated magnetic variation. As both scale and azimuth may be somewhat in error, the correct location of signal End (which is permanently marked) should be determined by triangulation when opportunity offers.
10. No additional surveying is required.
11. The character and scope of the surveying and field drafting are excellent.
12. Reviewed by E. P. Ellis, July, 1925.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The finished Hydrographic 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. 4448

State California

General locality San Nicolas Island

Locality East End San Nicolas Island

Chief of party R. R. Lukens

Surveyed by C. J. Itter

Date of survey February 10 and 11, 1925

Scale 1:10,000

Soundings in Fathoms

Plane of reference Mean lower low water

Extracted by C. L. N. . . . Soundings in pencil by C. L. N.

Inked by F. M. Albert Verified by F. M. A.

Records accompanying sheet (check those forwarded):

Des. report, Tide books, Marigrams, Boat sheets,

Sounding books, Wire-drag books, Photographs.

Data from other sources affecting sheet

Remarks: San Diego Tidal data used.

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

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. Hyd4448

State . California

General locality . San Nicolas Island

Locality . East End of San Nicolas Island

Chief of party . R. R. Lukens

Surveyed by C. L. Nyman

Date of survey February 10 and 11, 1925

Scale 1:10,000

Heights in feet above Average high water

Contour interval — feet.

Inked by C. L. N. Lettered by C. L. N.

Records accompanying sheet (check those forwarded): Photographs,

Descriptive report, Horizontal angle books, Field computations,

Data from other sources affecting sheet

Remarks: No form lines executed.