DESRIPTIVE REPORT

State: CALIFORNIA

LOCALITY
Santa Margarita River to Corona del Mar

1934

CHIEF OF PARTY
Robert W. Knox

U.S. GOVERNMENT PRINTING OFFICE: 1934
TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field Letter......U......1234 4892

REGISTER NO.

State............................................California.

General locality................................Southern California COAST.

Santa Margarita River to Harno Canyon.

Locality..................................................

Scale.......1:10,000......Date of survey...........April......1934

Vessel....................................................Shore party.

Chief of Party.....................................Robert W. Knox.

Surveyed by............................................N. C. Skanse

Inked by.............................................N. E. Skanse

Heights in feet above M.E.W.......to ground to tops of trees

Contour Approximate contour Form line interval..............feet

Instructions dated.........................January 10, 1934..............19

Remarks:.............................................................................
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field Letter ....W....1934

REGISTER NO. 4893

State........................................California.

General locality................................Southern California COAST.

Locality................................Horno Canyon to San Mateo Creek.

Scale................................1:10,000 Date of survey........April, 1934

Vessel................................Shore Party.

Chief of Party................Robert W. Knox.

Surveyed by.........................N. C. Skansen.

Inked by...............................N. C. Skansen.

Heights in feet above M. E. W. to ground .....feet

Contour Approximate contour Form line interval........feet

Instructions dated..........January 10, 1934...........

Remarks:.................................................................

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

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field Letter ...W..1934..

REGISTER NO. 4894

State. California.

General locality. Southern California COAST.

Locality. San Mateo Creek to San Juan Creek.

Scale. 1:10,000. Date of survey. May, 1934, 19

Vessel. Shore party.

Chief of Party. Robert W. Knox.

Surveyed by. N. C. Skansen.

Inked by. N. C. Skansen.

Heights in feet above M.A.W. to ground to tops of trees.

Contour Approximate contour Form line interval. feet.


Remarks: 

U. S. GOVERNMENT PRINTING OFFICE, 1935.
The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field Letter .X-.1934.

REGISTER NO. 4895

State_________________________California_________________________.

General locality____________________Southern California COAST____________________

Locality____________________San Juan Creek to Laguna____________________

Scale____________________1:10,000____________________Date of survey____________________June, 1934____________________, 19

Vessel____________________Shore party____________________

Chief of Party____________________Robert W. Knox____________________

Surveyed by____________________N. C. Skansen____________________

Inked by____________________N. C. Skansen____________________

Heights in feet above____________________M. H. W. to ground to tops of trees____________________

Contour Approximate contour Form line interval____________________feet

Instructions dated____________________January 10, 1934____________________, 19

Remarks:____________________________________________________

____________________________________________________

U. S. GOVERNMENT PRINTING OFFICE: 1939
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field Letter... X-1934

REGISTER NO. 4896

State... California

General locality... Southern California. COAST.
Locality... Corona del Mar. Laguna Beach to Tamarack Beach.

Scale... 1:10,000. Date of survey... July, 1934., 19

Vessel... Shore Party.

Chief of Party... Robert W. Knox.

Surveyed by... M. C. Skansen.

Inked by... M. C. Skansen.

Heights in feet above... M. H. W. to ground to tops of trees.

Contour Approximate contour Form line interval... feet.

Instructions dated... January 10, 1934., 19

Remarks...
DESCRIPTION REPORT

to accompany

Sheets U to Y 1934

Santa Margarita River to Newport Bay

April to July, 1934

Robert W. Knox  Chief of Party

Scale 1:10,000

INSTRUCTIONS:
The Instructions for this project were dated Jan. 10, 1934.

GENERAL DESCRIPTION:
The description of the area covered by these topographic sheets will be found in the report covering Air-Photo sheets T-5414 to T-5418 inclusive.

CONTROL:
The control on sheets U to Y inclusive is from the triangulation done by Charles Pierce in 1933. Also a few of the 1884 and 1885 triangulation stations were used.

SURVEY METHODS:
Before field work was begun the rods were stood on a measured base and longer rods were graduated, so as to make longer half interval sights possible.

Plane-table traverses were run between triangulation stations or three point fixes.

The tops of the bluffs of sheets U to W inclusive, were determined by rod shots. Sheets X and Y, only the base of the bluff was determined and the top is to be plotted by air-photo compilation.

CLOSING ERROR OF TRAVERSE:

Sheet U SPADE to fix 957 meters S.E. of signal DUM 2080

4
<table>
<thead>
<tr>
<th>Station</th>
<th>Traverse</th>
<th>Closure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spade to Shingle Bluff</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Shingle Bluff to Pulgas</td>
<td>3236</td>
<td>7</td>
</tr>
<tr>
<td>Pulgas to Don</td>
<td>3520</td>
<td>8</td>
</tr>
<tr>
<td>Don to Piedra</td>
<td>2836</td>
<td>3</td>
</tr>
<tr>
<td>Sheet V. Piedra to Onofra Bluff</td>
<td>6451</td>
<td>12</td>
</tr>
<tr>
<td>Onofra Bluff to Medio</td>
<td>3247</td>
<td>2</td>
</tr>
<tr>
<td>Medio to Airway #5</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Sheet W. Airway #5 to Cotton</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Cotton to fix west of Cufola Rd</td>
<td>1304</td>
<td>2</td>
</tr>
<tr>
<td>3 point fix W. of Cufola</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Fix S.S. of signal Ink</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>3 point fix S.S. of Ink to N. Light Pole, and San Clemente Pier</td>
<td>950</td>
<td>2</td>
</tr>
<tr>
<td>N. Light Pole, and San Clemente pier to Segunda</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Segunda to Prim</td>
<td>2348</td>
<td>4</td>
</tr>
<tr>
<td>Prim to Centar Light Pole</td>
<td>2630</td>
<td>2</td>
</tr>
<tr>
<td>Centar Light Pole, and of Doheny Pier to Doheny</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Doheny to fix S. of signal Non</td>
<td>1627</td>
<td>4</td>
</tr>
<tr>
<td>Sheet X Fix S. of signal Non to Dana</td>
<td>1806</td>
<td>2</td>
</tr>
<tr>
<td>Dana to Juan</td>
<td>2041</td>
<td>3</td>
</tr>
<tr>
<td>Juan to Mussel Cove</td>
<td>2617</td>
<td>15</td>
</tr>
</tbody>
</table>

This traverse was run five times, three one way and two back and still the same error. Great care was taken each time a set up was established, that the rod was held vertical, and when there was any difference in elevation, corrections were made. The plane-table was set up on both these stations and on the triangulation stations on both sides of Juan and Mussel Cove, all visible triangulation stations fell very close to positions. This error was probably due to distortion. The traverse was proportionally adjusted.
Meters
LUSSAL COVE to Traverse Closure
3 point fix N.S. Signal LW 1630 4
5 point fix N.S. signal LW to
GOFF ID. 2. 2117 5
GOFF ID. 2 to CACTUS PT. 1840 1
CACTUS PT. to
N. LIGHT POLE, and Laguna Pier 2460 4
SHEET Y N. LIGHT POLE, and Laguna Pier, to
RECREATION PT. 2. 0 0
RECREATION PT. 2 to EXTRA 2450 4
EXTRA to AVALON PT. 0 0
AVALON PT. to ROCKY BIGHT 2872 2
ROCKY BIGHT to PELICAN PT. 1560 2
PELICAN PT. to ARCH ROCK 1200 2
ARCH ROCK to BREAKWATER LIGHT 2112 2

All of the above traverses that were in error, were
proportionally adjusted.

NOTES ON INDIVIDUAL SHEETS:

SHET U The previous survey in this area was covered by sheet
Registry No. 2015, made in 1889. A comparison of high water line shows
slight differences now and then, possibly due to erosion or the redmans
interpretation of the high water line. Approximately 125 meters S.S.W.
of signal LAM, the previous survey shows high water line extending up
this valley, where as now the high water line continues in a relatively
straight line. This is probably due to the mouth having been filled
by silt deposited by the creek in the winter months.

Neither this or the previous survey show any offlying rocks
or reefs in this territory.

The U. S. Highway No. 101 and the Sante Fe R.R. were located
by numerous three point fixes. The blue points encircled are objects
tied in for photo compilation, the description of which are in pencil.

The bluff line was left in pencil awaiting the compilation
of the photo maps of this area.

SHEET V

In comparison with sheet Registry No. 2016 surveyed in 1889
it is very good except for two or three places. S. S. of ONOPHA BLUFF
for about 500 meters the high water line is about 15 meters inshore from
the present survey. This portion being backed by high dirt bluffs,
has in all probability been filled in.

L. W. of signal FIN is a very similar example. Here the
previous survey shows the high water line extending up a small narrow
valley. This has been filled in, establishing a high water line some
20 meters farther south.

At the mouth of the San Mateo Valley the previous survey
has the high water line extending up in the valley with a narrow sand-
spit across the mouth, leaving a narrow channel. This has been all
filled in establishing a high water line across the mouth of the valley
and yet some 50 meters inshore. The high water line in the locality
is no doubt changing year by year, the cause being obvious.

No offlying rocks or reefs are shown by either survey.

The highway and railroad were located by a number of
three point fixes and all beginnings and ends of curves were accurately
located as on sheet U.

The blue circled dots are objects located for photo
compilation, with description of each in pencil.

The top of the bluff line was determined by rod shots and
were left in pencil, awaiting compilation of photo work.

SHEET W

The former surveys in this area are on sheet Registry No 1733
surveys in 1886 and Registry No. 1645 surveyed in 1888. The two high water lines parallel each other up to the San Juan Capistrano Valley, except that the present one established is from 5 to 30 meters off shore. The small indentations in the old high water line at the mouths of small ravines are now all filled in. The first point west of signal NCM is shown to project out farther to sea a few meters but otherwise checks very good.

The highway and railroad were located from the beach traverse when possible. The rest was located from three point fixes.

The blue circled dots are objects located for photo maps, with description of each in pencil.

The top of the high steep dirt bluffs were located by rod shots. These were left in pencil until the photo maps of this area are made.

The San Clemente Pier is owned by the City of San Clemente. The Doheny Pier is the property of the Doheny Palisade Land Company.

The position of the San Mateo Rocks in the old survey check very close to true position, as the highest of this group is now a triangulation station. A new rock awash was located 200 meters east of the largest rock in this group.

The group of rocks, shown as submerged, about 1000 meters S. of SAVUNDO were located by cuts to each one, shows a slight difference in position. These rocks referred to in paper.

A new rock was located about 680 meters due S. of WINDVANE atop plunge.

The rock shown 130 meters W. of the end of Doheny Pier was not verified. There is no rock in this area.
The two groups of rocks 250 meters S. of signal NO. were checked but slight difference in location. These are now rocks awash.

The three sunken rocks shown off the first point W. of signal NO. were shown in the previous survey as two sunken rocks and but slight difference in position.

The two groups of rocks one 270 meters and the other 325 meters, directly S. of signal NO. were shown in the old survey above M. H. W. This survey shows these rocks awash.

The reefs W. of signal NO. are about the same latitude as on the old survey, but are located about 10 meters off shore of the old position.

The previous survey shows break in the highwater line, and extending up the San Juan Capistrano Valley. This is now closed in and the shore line is 100 meters North. About 300 meters E. of signal NO. the highwater line checks very close. The cause for these changes are undoubtedly the deposits brought down the creek by winter rains.

The black lines crossing M. H. W. line S. of signal OIL are sheet metal piling groins.

The San Diego and Orange County line monuments could not be found, but the surveyor at San Clemente reported the fence is on the county line and the bearing of the county line as S. 12° 28' 00'' W.

Sheet X. A comparison with sheets, Registry No. 1645 surveyed in 1885 and Sheet Registry No. 1646 also surveyed in 1885 show a very good agreement in delineation. The high water line and off-lying rocks and reefs shown on the previous survey check very close to the present ones, except, the point where signal OIL is located. This can be verified by the San Juan Rocks group, the highest of which was cut in by triangu-
The note on the opposite page means that the rocks above H.W. on T-1645 at Lot 33°29.7' Long 117°43.2' and at Lot 33°28.3 Long 117°43.4' (block projection on T-1415) were not found by this survey T. 48 S.

The sunken rock is at Lot 33°31.8' Long 117°46.75' and there is also a rock awash just south of this position. Contrary to the statement on the opposite page T. 48 S. shows the rock awash but does not show the sunken rock which is on T. 48 S.
lation in 1933 by Charles Pierce.

The group of rocks 230 meters S. of signal CIN were not verified, also the rock just off shore from signal TAR.

The entire area covered by this sheet show the points to be shorter and more narrow, and the bays and coves more shallow.

A new rock was charted 200 meters N.W. of signal BAN. 

\[\Delta \text{ U.S.S. CIN 2, } 1933\]

The point \[\text{CIN 2, } 1933\] is now located on the chart, was previously shown as an island. This short strip has been filled in with sand forming a square nosed point.

The rock 150 meters S.W. of signal ROOF, previously plotted as a high rock is now rock awash.

A rock 270 meters directly south of signal MIN was newly plotted.

Two rocks and a reef just off shore from signal ATT were also newly plotted.

A reef and two a rock awash were located directly south of GOFF ISLAND. These were not shown on the old survey.

Two rocks 150 meters S.W. of signal FOR are newly located.

Two new sunken rocks 200 meters N. of GOFF ISLAND 2, 1933.

Goff Island, previously shown as such, is now connected to the mainland by a narrow neck of sand.

The three sunken rocks S. of CACTUS PT. 2, 1933, are now designated as rocks awash.

\[\text{U.S.S. CIN 2, } 1933\] with the position which corresponds to a position on chart 1935.

The group of rocks 350 meters S.W. of signal TWO are shown as rocks awash, and a sunken rock plotted some 150 meters to the l... of this group. There was no sign of this sunken rock on the old survey.
Two rocks awash N. W. of CACTUS Pt. 2, were not shown before.

The blue circled points are objects tied in for photo compilation, the description adjacent in pencil.

Neither the highway or the top of the bluff was located on this sheet, due to the compilation of photo maps of this area. Only the bottom of the bluff was determined.

The triangulation station HIGHEST OF TWO BLACK STACKS, E. of DANA Pt. 1933, should be changed to tanks. They are two tall black tanks, not stacks.

**Sheet Y** This area is covered by previous survey sheets Registry No. 1646, surveyed in 1885, and Registry No. 1392, surveyed in 1875. In comparing the new with the old survey, the points agree very good, except in the vicinity of of TWO ROCK POINT, and the point AUCH ROCK is located on. The former is shown about 20 meters S. by W. of the present position, while the latter is N. by W. of the recent location. The bays, coves, and relatively straight shore line is shown as being built out from 15 to 40 meters since the last survey.

The previous survey shows a sunken rock 280 meters due S. of RECREATION POINT 2. This is now shown as rock awash with a very close check as to position. There is shown a short line of breakers 150 meters west of this rock which was not located by the old survey.

The rocks off RECREATION POINT were checked with one added a little farther off shore.

A new rock awash was located 120 meters south of signal RED.

The two large high rocks, known as Two Rocks check flat.

The reef and two rocks, S. and W. of Abalone Pt., was not located before.
The reefs S. W. of signal TX were checked, with one additional rock awash, added on this survey to the south about 100 meters, and three to the E. W. of the reefs, about 50 meters.

The reef and several rocks shown off shore from signal ABE, are newly located.

Two sets of breakers are now located, one 400 meters S. W. of Paliical Pt. and the other 300 meters S. W. of signal DOG. These were not shown on the old survey.

A group of rocks 270 meters south of ARCH ROCK were not shown on the old work.

The rocks and reefs between △ ARCH ROCK and ◇ TRI, and ◇ TRI to ◇ JIM were not located before.

The large high rock locally known as Arch Rock, just off shore of △ ARCH ROCK was not shown before.

Three new rocks are located close to low water line west of ◇ NSE.

The entrance to Newport Bay has been changed by dredging and breakwaters having been built. The mole on the east side of the entrance has caused the high water line directly east of it to be some 150 meters farther south.

The reef previously shown in this little cove is now designated as a rock awash, the location of which agrees perfectly.

The blue circled points are objects located to assist in the compilation of air photo maps, the descriptions of which are in pencil.

The bell buoy outside the Newport Bay entrance was located by three cuts.

The bottom of the bluffs was located and left in pencil.
LANDMARKS:
See the descriptive reports for Air-Photo sheets T-5414
to T-5418, inclusive, for the list of landmarks for charts.

INKING:
The inking was done by the topographer, except the
lettering, which was done by D. L. Aukland.

Respectfully submitted:

N. C. Skansen
N. C. Skansen,
Topographer.

Approved and forwarded:

[Signature]
Robert W. Knox,
Chief of Party.
STATISTICS

SHEET U

S. W. of Stuart railroad siding to \( \Delta \) PIEDRA.

Statute Miles of shore line, 7.53
" " highway, 3.4
" " railroad, 8.1

SHEET V. \( \Delta \) PIEDRA to San Mateo Creek.

Statute Miles of shore line, 6.7
" " highway 7.4
" " railroad, 6.9

SHEET V. San Mateo Creek to San Juan Creek.

Statute miles of shore line, 8.3
" " highway, 7.9
" " railroad, 7.5

SHEET X. San Juan Creek to Laguna Beach.

Statute miles of shore line, 9.54

SHEET Y. Laguna Beach to Newport Bay entrance.

Statute miles of shoreline, 7.32

no area claimed for these sheets.
VERIFICATION REPORT

I have reviewed the sheets covered by this report and have supervised the field and office work on the sheets so far as it was possible to do so without interference with the progress of the field work.

The sheets are hereby approved.

[Signature]
Robert W. Knox,
Chief of Party.

Additional notes by Chief of Party.

A comparison between the air-photo compilation and topographic sheet of the shore line in the vicinity of Emerald Bay (sheet Y) showed a discrepancy of such magnitude as to warrant investigation. The traverse was re-run on an aluminum mounted sheet, and the original sheet changed to show the correct detail. The former sheet will be submitted in the near future.

Slight changes in the position of several offshore breakers and rocks were made in order to make them agree with positions as obtained by the hydrographic party, the latter position being thought to be more accurate in those cases. The air-photo topographic sheets show the rocks in their original location, and it is respectfully suggested that they be changed to agree with the positions as now appear upon the topographic and hydrographic sheets. For further information, see page 13 of the General Descriptive Report of Air-Photo Sheets Register No. T-5375 and T-5410 to T-5418 inclusive.

[Signature]
RWK
See descriptive report of T-5416.
Date of Review

1. This survey has been reviewed in connection with Air Photo Compilation Nos. T-54/46, with particular attention to the following details:

   (a) Projection has been checked in the field.

   (b) Accuracy of location of plane table control points.

   (c) Discrepancies between detail on this survey and the air photo compilations listed above.

   (d) Discrepancies found in descriptions submitted on Form 524 when compared with the air photo compilations listed above.

2. Refer to the reviews and descriptive reports of air photo compilations Nos. T-54/6, for a more complete discussion of any errors or discrepancies found.

   Any material errors found on this survey are noted in subsequent paragraphs of this review, and these have been reported to the Field Records Section and the Cartographic Section.

   Notes and corrections resulting from the review are shown on this survey in green.

   Andrews

   B.G. Jones

The blue circle stations on 1892 b, 45, 86 were located by
plane table for air photo control 11/50 F.O.E.
1. This survey has been reviewed in connection with Air Photo Compilation Nos. T=5417, with particular attention to the following details:

(a) Projection has been checked in the field.

(b) Accuracy of location of plane table control points.

(c) Discrepancies between detail on this survey and the air photo compilations listed above are reviewed for compilation T=5417.

(d) Discrepancies found in descriptions submitted on Form 524 when compared with the air photo compilations listed above.

2. Refer to the reviews and descriptive reports of air photo compilations Nos. T=5417, for a more complete discussion of any errors or discrepancies found.

Any material errors found on this survey are noted in subsequent paragraphs of this review, and these have been reported to the Field Records Section and the Cartographic Section.

Notes and corrections resulting from the review are shown on this survey in green.

Leonard C. Jackson
By: Jones

The blue circle station shown on T=4892.34.576 was located by plane table for air photo control.