

6274

U. S. COAST & GEODETIC SURVEY
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Form 504
Ed. June, 1923

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. Patton, Director

State: CALIFORNIA

DESCRIPTIVE REPORT

Topographic

Sheet No. L

~~Hydrographic~~

LOCALITY

~~Central California Coast~~

~~San Luis Obispo Bay South~~

Pismo & Vicinity

1934

CHIEF OF PARTY

O. W. Swainson, H. & G. Engr.

U. S. GOVERNMENT PRINTING OFFICE: 1923

6274

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

REG. NO.

MAY 7 1935

Acc. No. _____

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 _____

REGISTER NO. 6274

State California

General locality ~~Central~~ California Coast

Locality ~~San Luis Obispo Bay South~~ (Pismo) Vicinity

Scale 1:10,000 Date of survey August, 19 34

Vessel U.S.C. & G.S.S. PIOTER

Chief of Party O. W. Swainson

Surveyed by Harold Clarke

Inked by Harold Clarke

Heights in feet above MW to ground to tops of trees

~~Contours~~ Approximate contours Form line interval 100 feet

Instructions dated November 18, 1932, 19

Remarks: _____

DESCRIPTIVE REPORT

TO ACCOMPANY TOPOGRAPHIC SHEET NO. 1.

San Luis Obispo Bay South (Pismo)
California Coast
Latitude 35° 07' to 35° 09'

AUTHORITY

This work was done in accordance with instructions dated November 18, 1932, to the Commanding Officer of the PIONEER, for Project No. 120 and also those dated April 4, 1932, to the Commanding Officer of the GUIDE, Project No. 101. Work was done during the latter part of the month of August, 1934.

CONTROL

This sheet was controlled by triangulation points located previously by Chas. Pierce in 1933 at an approximate maximum distance of two miles along the coast line. Traverses were run between these stations with the following errors of closure:

- △ GranXda, 1933 to △Pismo, 1933 - Flat
- △ Pismo, 1933, to △South Point 2, 1933 - Flat

Offlying rocks and backlying land features were located by cuts. Elevations of prominent peaks and knolls were determined and contours were checked from a form line standpoint.

GENERAL DESCRIPTION

The southern portion of the sheet consists of a broad flat sand beach with a narrow strip of low grassy sand dunes immediately back of this. Then follows Pismo Creek, the highway Oceano to Pismo, and the Southern Pacific Railroad Main Line between San Francisco and Los Angeles. Joining the valley of Pismo Creek is the valley of Villa Creek, up which valley the Southern Pacific breaks inland.

Villa Creek is at the south end of Pismo and marks the end of the sand dunes. The broad sand beach continues north of △ Pismo, 1933, about 700 meters.

The cliff line starts about 300 meters south of △ Pismo, 1933, varying from 20 to 60 feet high, being of dark sandy soil until about 500 meters north of △ Pismo, 1933, where the rock strata start. The cliff line is broken up by several canyons marking the location of washes down the mountain. The cliff being composed of approximately 2/3 white to brown rock and the top third dark sandy soil and varying from 50 to 80 feet elevation continues to △ South Point 2, 1933, and with the exception of a few short stretches of narrow sand beach, marks the high water line.

The cliff is very crooked, being full of short bights and points and characterized by extensive offlying rock patches and inshore reefs. There are also numerous islets in these rock patches, particularly just south of Δ South Point 2, 1933.

Back of the cliff line lies the main coast highway, U.S. Route No. 101, the highway being located near the base of the steep slopes leading up to the peaks. These peaks are generally covered with small oaks, the slopes with low brush and occasional oaks, particularly in the draws. The ground from the cliff line to approximately the 300 foot elevation is mostly under cultivation.

At Δ South Point 2, 1933, is a small settlement called Shell Beach which includes a few residences, numerous dirt and gravel roads.

Δ Price, 1872, elevation 903 feet, is located on a very sharp peak as contrasted with the more rounding tops of the range south thereof.

The pier at Pismo (Δ Pismo Dock, 1933, elevation 22 feet) is about 360 meters long, the east end being at a concrete retaining wall about 15 feet high and about 200 meters long. Several large building and concrete walls at the back of the beach stand out prominently.

This is a complete new survey and consequently supersedes in all respects except the contours, the former survey. This particularly applies to the shore line, offlying rocks and reefs.

CHANGES IN COAST LINE

The highwater line at Δ Granda, 1933, has moved offshore approximately 60 meters as compared to the old survey. This continues more or less uniformly to the rock cliff.

There are no indications of changes in the cliff line or offlying rocks. At the north end of Pismo Beach several rocks are undoubtedly buried in the sand.

The additional features comprised of the Southern Pacific Railroad main line between Los Angeles and San Francisco; paved highway, U.S. No. 101; paved highway Pismo to Oceano; the town of Pismo and the settlement at Shell Beach are noteworthy changes shown by the new topography.

The settlement indicated on the charts as Oilport has been abandoned and is now used for farming purposes. It should be removed from the chart.

STATISTICS

Shoreline - 5 statute miles.
Lineal Miles Streams - 0.7 statute miles.
Shoreline, lakes and sloughs - 2.5 statute miles.
Railroad - 2.3 statute miles.
Highway - 13.9 statute miles.

Harold Clarke
Harold Clarke,
Topographer.

Forwarded:

O. W. Swainson
O. W. Swainson,
Chief of Party,
Commanding PIONEER.

LANDMARKS

Sheet L.

Pismo Dock, 1933.

This pier, about 360 meters long and 10 meters wide, 22 feet high, is visible from all directions and should be charted.

Pismo Plunge (PLU)

This building, 100 feet by 160 feet approximately, position indicated by the west end of PLUNGE sign (incorrectly located in triangulation data) 31 feet high, elevation 48 feet, is prominent from all directions being of brick of vermilion color and should be charted.

"The Peak" (FON)

This distinctive building, 15 feet by 20 feet, elevation 105 feet at top, 30 feet above the ground, with the west face white, roof black and forming a very sharp peak is visible from all directions and should be charted. as a house.

△ White Water Tank East of Pismo Beach, 1933.

This tank, about 15 feet in diameter and 20 feet above the ground, elevation of top 428 feet, painted white, stands out, particularly from the southwest, prominently, and should be charted.

Yellow House, Southwest Corner, (YEL).

This house, on a high point projection, elevation 281 feet to top, back of Pismo, is visible from all directions and should be charted as a house.

GEOGRAPHIC NAMES

Sheet L.

The following should be removed from the charts:

Pismo Landing (superseded by the town of Pismo). ✓

The following should be added to the chart:

Pismo (town) ✓

Shell Beach (settlement) ✓

Willa Creek

RECOVERABLE PLANE TABLE POSITIONS

Block Signal #2638	35° 07'	1310	Stone Chimney	35° 08'	1693
	120 37	1270		120 38	410
Block Signal #2637	35 07	1310	Barn Gable	35 08	1639
	120 37	1263		120 38	1105
Block Signal #2632	35 08	267	Fun	35 09	622
	120 37	1322		120 39	1484
PLU	35 08	699	Tower	35 09	710
	120 38	816		120 40	161
YEL	35 08	1610	Ney	35 09	363
	120 38	709		120 40	618
Gable	35 09	314	Ick	35 09	339
	120 40	486		120 40	605
Sho			35° 08'	745	
			120 38	632	

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

U.S.C. & G.S.S. PIONEER, Long Beach, Calif.

February 28, 1935. 19

DIRECTOR, U. S. COAST AND GEODETIC SURVEY:

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted.

O. W. Swainson.

Chief of Party.

[illegible]

A list of objects which are of sufficient prominence for use on the charts, together with a description of the same, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report. The selection, determination, and description of these points are of primary importance.

The description of each object should be short, but such as will identify it; for example, standpipe, water tower, church spire, tank, tall stack, red chimney, radio mast, etc. Generally, flagstuffs and like objects are not sufficiently permanent to chart.

Diagram No. 5302-2

Under investigation. Q

(M-136)

REVIEW OF TOPOGRAPHIC SURVEY No. 6274

Title (Par. 56) *Pismo and Vicinity, California*Chief of Party *O.W. Swainson* Surveyed by *H. Clarke* Inked by *H. Clarke*Ship *Pioneer* Instructions dated *Nov. 18, 1932* Surveyed in *August 1934*

1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 7, 8, 9, 13, 16.) ✓
2. The character and scope of the survey satisfy the instructions. ✓
3. The control and closures of traverses were adequate. (Par. 12, 29.) ✓
4. The amount of vertical control that the Manual specifies for -contours-formlines- was accomplished. (Par. 18, 19, 20, 21, 22, 23.)
No new contours - Check elevations taken and old contours considered adequate.
5. The delineation of -contours-formlines- is satisfactory. (Par. 49, 50.)
See Par. 4
6. There is sufficient control on maps from other sources that were transmitted by the field party to enable their application to the charts. (Par. 28.) *None submitted*
7. High water line on ~~marshy and mangrove coast~~ is clear and adequate for chart compilation. (Par. 16a, 43, 44.) ✓
8. The representation of low water lines, reefs, ~~coral reefs~~ and rocks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41.) ✓
9. Rocks and other important details shown on previous surveys and on the chart were verified. (Par. 25, 26, 27.)

See reverse side

10. ~~The span, draw and clearance of bridges are shown.~~ (Par. 16c.)
11. Locations and elevations of summits are given. (Par. 19, 51.)
Check elevations taken
12. The tree line was shown on mountains. (Par. 16g.)
Not shown

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Use reverse side for extending remarks.

Paragraph 9

T1393 (1873-4)

The present survey is in good agreement with T1393 except as noted under "Changes in Coast Line" on Page 2 of the Descriptive Report. A group of rocks at Lat. $35^{\circ}-09'.1$, Long. $120^{\circ}-39'.85$ on T1393 were noted on the contemporary hydrographic survey H5772 as sunken rocks. In many cases bare rocks on T1393 are indicated as rocks awash on the present survey. Survey T6274 should supersede T1393 in part.

Chart 5302

The chart is in good agreement as far as can be ascertained with the big difference in scale. Note is made on page 2 of the Descriptive Report that Oilport is now abandoned and used for farming purposes whereas it still is shown on the chart.

13. The descriptive report covers all details listed in the Manual, in so far as they apply to this survey. (Par. 64, 65, 66, 67.) ✓
14. ~~The descriptive report also contains additional information required in aero-topography relative to type of photographs, method of compilation and type of ground control.~~
15. The descriptions of recoverable stations and references to shore line were accomplished on Form 524. (Par. 29, 30, 57, 67 except scaling of IMs and DPs, 68.) *13 cards submitted*
16. A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.) ✓
17. The magnetic meridian was shown and declination was checked. (Par. 17, 52.) *No evidence of having checked declination. Declination at Δ Granda 3° East of that at Δ Pismo. Evidently local attraction at Δ Granda.*
18. The geographic datum of the sheet is _____ and the reference station is correctly noted. (Par. 34.)
19. Junctions with contemporary surveys are adequate. ✓
Joins T 6285 on the North and T 6273 on the South
20. Geographic names are shown on the sheet and are covered by the Descriptive report. (Par. 64, 66k.) ✓
21. The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46, 47, 48, 49, 50.) ✓
22. No additional surveying is recommended. ✓
23. The Chief of Party inspected and approved the sheet and the descriptive report ~~after review by~~ ✓
24. Remarks:

Reviewed in office by

Chas. R. Bush Jr. May 28, 1936.

Examined and approved:

C. H. Green.
Chief, Section of Field Records*L. O. Robert.*
Chief, Division of Charts*Fred. L. Peacock*
Chief, Section of Field Work*Glunde*
Chief, Division of Hyd. and Top.