

6273

U. S. COAST & GEODETIC SURV.
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Form 504
Rev. April 1935
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Topographic

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Sheet No. K

State CALIFORNIA

LOCALITY

California Coast

Arroyo Grande & Vicinity

1934

CHIEF OF PARTY

O. W. Swainson

U. S. GOVERNMENT PRINTING OFFICE

6273

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

U. S. COAST & GEODETIC SURVEY
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MAY 7 1935

Acc. No. _____

REG. 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 K

REGISTER NO. 6273

State California

General locality ~~Central~~ California Coast

Locality ~~Point Sal North~~ Arroyo Grande River, ~~Vicinity~~

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

Vessel U.S.C. & G.S.S. PIONEER.

Chief of Party O. W. Swainson,

Surveyed by H. Clarke

Inked by H. Clarke

Heights in feet above LHW to ground ~~tops of trees~~

Contour ~~Approximate contour~~ Form line interval 100 feet

Instructions dated November 18, 1934, 19

Remarks: _____

DESCRIPTIVE REPORT

TO ACCOMPANY TOPOGRAPHIC SHEET NO. K.

California Coast
Point Sal North (Arroyo Grande River).
Latitude $35^{\circ} 04'$ to $35^{\circ} 07'$.

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 first part of the month of August, 1934.

CONTROL

The sheet was controlled by triangulation points located previously by Charles Pierce in 1933, at an approximate maximum distance of two miles along the coast line. Since Δ Clam could not be recovered due to shifting sands, a system of graphic triangulation ^{was made} using Δ Granda, 1933, and Δ Quinn, 1933, as starting control and checking on Δ Black, 1933, and Δ Quinn, 1933. The traverse run from Δ Redwood to Δ Granda checked flat. The traverse from Δ Granda to Δ Black also checked flat.

GENERAL DESCRIPTION

This section is characterized by a broad flat beach backed by a narrow strip of low grassy dunes. South of the Arroyo Grande River these low grassy dunes are backed up by a strip of bare sand gradually rising to the high ridge of bare sand and bare dunes. Between these bare dunes and the railroad lies a broad valley under cultivation, the southern end of which is a series of lakes with brushy dunes running east and west between these lakes. These lakes are owned by Dune Lakes Incorporated, and by means of pipe lines and pumps control the height of the water in each lake. See map of private survey made in 1928 included in this report.

The Southern Pacific Railroad main line between Los Angeles and San Francisco skirts the edge of the hill and crosses the low valley into the town of Oceano. The Arroyo Grande River, just south of Oceano is guided by levees in its course skirting the north edge of the high dunes.

North of the Arroyo Grande River is Pismo Creek, neither of these streams breaking into the ocean except at flood season. This marks the location of Oceano Beach. Pismo Creek is a broad, meandering, and shallow stream just back of the low grassy dunes. East of Pismo Creek are

the main highway between Pismo and Oceano, and the Southern Pacific Railroad. At the east edge of the railroad right-of-way is a continuous line of eucalyptus trees. East of the railroad the farm land gradually slopes up to the high knoll on which Δ Quinn, 1933, is located.

Of particular note is the fact that the dunes are constantly shifting eastward changing both the Dune Lakes and Pismo Creek.

CHANGES IN COAST LINE

Highwater Line. At Δ Redwood, 1933, the high water line has moved offshore about 15 meters. North thereof to topographic station RAC this change increases to about 40 meters. From topographic station RAC to Δ Flag Pole, Pavillion Oceano, 1933, this increases uniformly from 40 meters to 110 meters. From Δ Flag Pole, Pavillion Oceano, 1933, to Δ Granda, 1933, the divergence offshore decreases uniformly from about 110 meters to approximately 50 meters.

Sand Dunes. The encroachment of the bare dunes on backlying land features is quite noticeable, particularly in the case of Pismo Creek as well as the dune lakes north of Δ Black, 1933.

The higher bare dunes, just inshore from the low grassy dunes north of Δ Redwood, 1933, maintain generally similar character to the old topography, but are changing constantly due to the heavy winds.

Pismo Creek. Due to easterly movement of the bare dunes, the channel of Pismo Creek has been moved inshore in spots as much as 250 meters. At the time of this survey, there was ^{no} indication that either Pismo Creek or the Arroyo Grande River break into the ocean, although they undoubtedly do at flood season.

Arroyo Grande River. This river has been impounded by levees and its course completely altered there by.

Additional Features. The town, Oceano, with its main settlement along the railroad, and also near the shore line have been added.

The highway from Oceano to Pismo has been added.

The Southern Pacific Railroad main line between Los Angeles and San Francisco has been added. The high line of eucalyptus trees, closely spaced at the east edge of the right-of-way are also noteworthy.

This topographic sheet constitutes a complete new survey except contouring and should replace the old survey in all respects except the contours.

STATISTICS

Sand Beach 3.5 statute miles.

Lakes, Rivers and Sloughs 15.7 statute miles.

Railroad 4.9 statute miles.

Roads and Highways 7.8 statute miles.



Harold Clarke,
Topographer.

Forwarded:



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

LANDMARKS

Sheet K.

Pavillion, Ocean Beach.

This pavillion, 60 feet by 80 feet approximately, 42 feet above the ground, constructed of wood, weathered black, stands out prominently above the surrounding sand, is visible from all directions and should be charted.

Water Tank, South of Pismo Beach, 1933.

This tank, black with conical top, about 50 feet in diameter and about 25 feet high is visible from the northwest and should be charted.

RECOVERABLE PLATE TABLE POSITIONS

Brick Chimney, W. side	35° 03	1672 m.	MIL	35° 06'	444
Caretaker's house.	120 36	153		120 37	340
Brick Chimney, S. Gable	35 03	1769	Black Silo	35 06	645
White House- Green	120 36	199		120 36	1516
Roof					
Water Tank	35 04	59	Block Signal		
	120 36	115	#2652	35 06	867
				120 37	478
Block Signal #2683	35 04	628			
	120 35	1054	Block Signal		
			#2651	35 06	870
Mile Post 268	35 04	1233		120 37	472
	120 35	664			
			PEK	35 06	847
Block Signal #2676	35 04	1701		120 37	551
	120 35	740			
			NEY	35 06	813
Block Signal #2665	35 05	1230		120 37	615
	120 36	563			
			STO	35 06	171
Block Signal #2661	35 05	1624		120 37	864
	120 36	1009			
			CHIM	35 06	505
Block Signal #2660	35 05	1619		120 37	988
	120 36	1013			
			PIE	35 06	610
Shell Tank	35 05	1739		120 37	1226
	120 36	1117			
			Block Signal	35 06	1358
Station Block Signal	35 06	11	#2649	120 37	658
	120 36	1266			
			Block Signal	35 06	1355
Block Signal #2657	35 06	286	#2648	120 37	664
	120 37	71			
			Block Signal	35 07	59
Block Signal #2656	35 06	281	#2645	120 37	869
	120 37	75			
			Block Signal	35 07	57
			#2644	120 37	875

GEOGRAPHIC NAMES

Sheet K.

The following should be removed from the charts:

Water Tower (no indications of its former location)

The following should be added to the charts:

Oceano

Pismo Creek

Dune Lakes — *See Geographic names list*

Highway, Oceano to Pismo.

Diagram No. 5302-2

Under investigation. Q

[illegible]

REVIEW OF TOPOGRAPHIC SURVEY No. 6273

Title (Par. 56) *Arroyo Grande River "vicinity, California*Chief of Party *O.W. Swainson* Surveyed by *H. Clarke* Inked by *H. Clarke*Ship *Pioneer* Instructions dated *Nov. 10, 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.)
Contours from previous surveys adequate - No new contours drawn
5. The delineation of -contours-formlines- is satisfactory. (Par. 49, 50.)
Taken from previous surveys
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.) *Blue Print No. 28574 submitted showing some details inside the H.W. line and around the lakes*
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.)
No new 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 except as noted on page 2 of the Descriptive Report under "Changes in Coast Line". As noted here the Anoyo Grande River does not empty into the ocean at Lat. 35°-06' as indicated on T1393.

T1596 (1879)

Except as noted on page 2 of the Descriptive Report the present survey is in good agreement. The H.W. line along the sand dunes has evidently changed somewhat as is always the case on such a shore where high winds often sweep.

The present survey supersedes T1393 (1873-4) and T1596 (1879) in part.

Chart 5302

With the exception of Anoyo Grande River as noted under T1393 above, the chart is in good agreement with the present survey.

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.) *27 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 indication of having checked declinatoire*
18. The geographic datum of the sheet is *N.A. 1927 (Adjusted)* and the reference station is correctly noted. (Par. 34.) ✓
19. Junctions with contemporary surveys are adequate. ✓
Joins T 6274 (1934) on the North and T 6272 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 ^{very} 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. P. Bush Jr.* May 28, 1936.

Examined and approved:

C. H. Green.
Chief, Section of Field Records

L. O. Lobat.
Chief, Division of Charts

Fred. L. Peacock
Chief, Section of Field Work

W. H. de
Chief, Division of Hyd. and Top.