· · · ·	U. S. COAST & GEODETIC SURVEY
Form 504 Ed. June, 1928 DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY R. S. Patton , Director	OCT: 5 1984
State: California	
DESCRIPTIVE REPORT Topographic Sheet No. A 4864	
LOCALITY Pacific Coast	
North of Pt. Conception d	· · · · · · · · · · · · · · · · · · ·
19.33 - 34	
O. W. Swainson, H. & G. Eng	T •
u. 9. government printing office: 1824	

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

U. S. COAST & GEOBETIC SURVEY LIBRARY AND ARCHIVES

OCT 5 1984

TOPOGRAPHIC TITLE SHEET

٠	M.	
ICC.	44.	

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 ____A___

REGISTER NO.

State California
General locality Pacific Coast
Locality Per North of Pto Conception Lat as 18110
Scale 1:10,000 Date of survey Sept. 1933 - Jan. 1934
Vessel U.S.C. & G.S.S. PIONEER
Chief of Party C. W. Swainson,
Surveyed by P. L. Bernstein,
Inked by P. L. Bernstein,
Heights in feet above HW to ground toxtops xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Contour Approximate contour Rosensking interval 100 feet
Instructions dated November 18, 1932. , 19
Remarks:

DESCRIPTIVE REPORT

TO ACCOMPANY TOPOGRAPHIC SHRET A.

North of Pt. Conception - California Coast.

W.S.C. & G.S.S. PIONEER

O. W. SWAINSON, CMDG.

AUTHORITY

This work was done in accordance with instructions dated November 18, 1932, to the Commanding Officer of the RIONEER for Project No. 120, and also those dated April 4, 1932, to the Commanding Officer of the GUIDE, Project No. 101. The dates of the survey was from Sept. 25 to Sept. 30, 1933, and from Jan. 22, to Jan 31, 1934.

AREA

The area covered in the survey includes the coast line from Latitude 340 29° N. to Latitude 340 33° N.

CONTROL

The control was triangulation stations located previously by F. G. Johnson in 1933. The usual method of traverse and resection cuts was used thruout the survey. The following traverses were run with the resulting closing errors.

△ Black Point to △ Jalama - 1 meter long in distance; orientation correct.

△Jalama to △Bluff. - 3 meters long in distance; orientation correct.

ABluff to ASudden - Correct in distance and orientation.

Sudden Red Barn to AFlint - Correct in distance and orientation.

The closing error was adjusted proportionally.

Offlying rocks and land features were located by cuts. Numerous elevations were determined and contour lines verified from a form line view point.

GENERAL DESCRIPTION

In general the shore line consists of rocky cliffs of varying height, with numerous gullies and ravines cutting into the cliff line. Immediately,

back of the cliff line extends the Southern Pacific Railroad along which cextends a poor dirt road. Back of this, there are grassy slopes extending to the higher peaks and ridges.

ABlack Point is located on a grassy knoll, the height of which is 404 feet. The cliff line directly opposite this station is the highest along the area, being almost 200 feet high, and gradually diminishing in height until they no longer exist. The shore line opposite ABlack Point is fringed with a rocky ledge, extending north to signal "ALL"

North of signal "ALL" the shore line consists of a broad sandy beach which is broken by a rocky ledge directly opposite topographic signal PUT.

Three hundred meters south of Alama there is a small creek about 50 meters wide which will empty into the ocean when swollen by rains. The cliff line begins again here, and is fairly uniform in height until Aluff is reached. Four hundred meters north of signal MAY the sandy beach ends, and from the point northward the shore line is fringed with numerous rocky ledges, rocks awash, and small scattered stretches of sandy beach.

Opposite ABluff there are two distinct bluff lines with the railroad between. The cliff east of the tracks is very steep, 370 feet in height, and consists of a yellowish sedimentary soil. Two hundred meters west of ABluff exists a railroad tunnel.

North of ABluff the cliff line is of fairly uniform height of approximately 60 feet. A narrow stretch of sand beach extends along the base of the cliff and this is fringed with numerous rocks and foul area which is clearly shown of the sheet.

LANDMARKS

Topographic signal SIS is the middle one of three water tanks just north of the bridge of the Southern Pacific Railroad. These tanks are visible offshore.

A Station Bluff is on the top of a steep yellowish cliff, 370 feet high, which is clearly visible offshore.

offshore. Red Barn, West Apex, is a large red barn, and clearly visible

A Sudden, Black Tank, is clearly visible offshore.

Topographic signal Parn is the west gable of a large barn risible offshore.

No new marnes listed.
Espada Bluff is Called The Espada on USGS.
Guadalripe anad (Ingrity made)

HB Oct 16, 1934,
an found in USBS alreade

Topographic signal PUT is the west gable of a large barn visible offshore. Topographic signal BAN is the west gable of a large barn visible offshore.

CHANGES IN COAST LINE

In general the rocks shown on the old survey of 1877 were located correctly, but were not shown by the correct symbols. All rocks shown outside the high water line on the old topographic sheet should be removed and indicated in accordance with the new survey. No evidence could be found of the few shown on the old and not shown on the new sheet.

HIGH WATER AND CLIFF LINES

With few exceptions the high water line and the cliff line follow closely with that shown on the old survey. The few discrepancies were probably due to erosion. In vicinity of ABluff the cliff line and high water line is offshore about 30 meters, due probably to the railroad construction.

On the point immediately south of signal TOP, the high water line and cliff line was found to be about 60 meters offshore of that shown on the old topographic sheet.

CONTOURS

The contours as shown on the survey of 1877 were transferred to the topographic sheet, and in this way were verified in the field from a form line standpoint. Numerous elevations were taken and are shown in red. The verified contours were left in pencil, and all changes are shown in red. The following changes are to be noted:

200 foot contour north of signal BAN.

100 and 200 foot contours in vicinity of signal TAN.

300 foot contour in vicinity of

MISCELLANEOUS

Southern Pacific Railroad added. Unimproved highway added.

In a number of places along the high water line, the Southern Pacific Railroad is constructing sections of a sea wall to prevent undermining of the cliff, which would endanger their tracks.

STATISTICS

Miles of shoreline Miles of Railroad Miles of Roads Area

6 statute miles.

6 statute miles.

7 statute miles.

3 square statute miles.

P. L. Bernstein.

Jr. H. & G. Enginee

Approved and forwarded:

W. Swainson,

H. & G. Engineer

Commanding PIONEER

		LIŞ	r of Reco	VERABLE	STAT.	IONS	
Stätion		'Lat	i tude		Long:	itude	Remarks
Block Signal #3228	34 ⁰	291	+ 100 m.	120°	28'	+ 1350.	m.
-Ban	34	29	310	120	2 8	1505	West Gable of Barn
Block Signal #3219	34	29	810	120	. 29	421	
Block Signal #3214	34	29	1523	120	29	807	
Block Signal #3213	34	29	1531	120	29	. 892	
/ Pat	34	29	1574	120	29	677	W. Gable of barn
Barn	34	30	169	- 120	29	1021	do
Block Signal, #3205	34	30	1041	120	29	1358	
Block Signal #3206	34	3 0 ′	1041	120	29	1349	
✓ Tan	34	30	1069	120	29	1370	S. Gable Jalama RR Static
/ Но	. 34	30	1279	120 :	29	1380	S. Gable Two Story Yellow Section House.
Sis	34	3 0	1510	120	29	1422	Middle one of 3 water tanks.
Block-Signal #3202	34	3 0	1441	, 120	30	85	
Block Signal #3193	347	31	958	120	30	997.	
W. Cable Barn	34	31	991	120	30	979	
Block Signal #3188	34	31	1250 -	120	30	1511	
Ner	- 34	31	1545	120	31	408	W. Ceble of Shed
∕Rail	.34	32	159	120	31	1067	Block Signal #3181
NW Corner of Shed	.34	32*	345	120	31	1418	

List of Recoverable Stations Continued

Station	"Latitude	Longitude	Remarks
Block Signal #3176	34° 32° + 479 m.	120° 32° + 72 m.	
Block Signal #3177	34 32 492	120 32 65	
∕Gab	34 32 603	120 32 892	W. Gable of Barn
Block Signal #3171	34 32 856	120 32 909	
<pre>Block Signal #3172</pre>	34 32 863	120 32 905	
W. Gable. Barn	34 32 1132	120 32 850	
Block Signal #3166	34 32 1207	120 33 241	
/ W. House, Cente		120 31 1217	

LIST OF UNRECOVERABLE STATIONS

Station	Latitude	Longitude
Сер	34 [°] 29 '	120° 28•
All	34 29	120- 29
- Тор	34 30	120 29
. 01g .	34 30	120 29
Rad .		120 30
May	34 31	120 30
Run	34 31	120 30
It	34 31	120 - 31
Til	34 31	120° 31
Cat	34 31	120 31
Pes	34 32	120 31
Me.	34 32	∕ <u>120 32,</u>
Do	31 32	120 32
La	34 32	120 33

3 547

no long

GEOC	SRAP	HIC.	NΑ	MES

Survey No	Survey	No	T	4864
-----------	--------	----	---	------

Date. Oct. 16, 1934

CALIFORNIA

Chart No. 5202 & 5302

Names underlined in sed approved Oct 16, 1934 Diagram No. 5202-2 & 5302-2

- *, Approved by the Division of Geographic Names, Department of Interior.
- $\rlap/{c}$, Not Approved by the Division of Geographic Names, Department of Interior.
- R, Referred to the Division of Geographic Names, Department of Interior.

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
143	- (/565)-	***************************************			34 ⁰ 32.4 ¹ 120 ⁰ 32.3
^	Espada Bluff The Espada on	Seme Sit nam U.S.GS Guadalupe Quad.	e stand w	clies revised	34 ⁰ 31.9' 120 ⁰ 31.3'
JAB.	Jalama (V.S.G.S)	Inquiry made			34 ⁰ 30.6' 120 29.8'
AB		Pt. Conception	an		34 ⁰ 27.0' 120 ⁰ 27.8'
· NE	Paceidi0cean n				34 <mark>0</mark> 30.7' 120 32.0'
					<u> </u>
2					·-
	,		·		
			,		
•					'
*		,		·	(6)

Section of Field Records

REVIEW OF TOPOGRAPHIC SURVEY NO. 4864 (1933-4)

North of Point Conception, Pacific Coast, California Surveyed in September, 1933, and January, 1934 Instructions dated November 18, 1932 (PIONEER)

Plane Table Survey

Chief of Party - 0. W. Swainson. Surveyed and Inked by - P. L. Bernstein.

1. Condition of Records.

The records conform to the requirements of the Topographic Manual except as follows:

- a. The reference station was shown in red instead of black (the color of the Projection) and the datum note (N. A. 1927) was omitted.
- b. Differences and discrepancies in offshore rocks between the 1933 survey and previous surveys were not listed in the Descriptive Report in detail but only a general recommendation relative to their disposition was included.
- c. Landmarks are described in the Descriptive Report but no duplicate of Form 567 was attached to the Report.

2. Compliance with Instructions for the Project.

The survey in general complies with the instructions for the project.

3. Junction with Contemporary Surveys.

Junction with T-4865 (1933) to the north is satisfactory. Revised contours were carried to a satisfactory junction with the survey of 1877 (contours shown in pencil on the sheet). The topographic survey to the south by the party of C. K. Green has not yet been received.

4. Comparison with Prior Surveys.

a. T-1520a (1877).

Small differences in shoreline are noted. They are probably due to the breaking down of the cliffs and erosion. At \triangle Bluff (lat. 30°32', long. 120°31') the high water shoreline has been extended seaward slightly by the construction of the Southern . Pacific Railway.

The Descriptive Report recommends that "all rocks shown outside the high water line on the old topographic sheet should be removed and indicated in accordance with the new survey." A close comparison reveals some minor differences in location and detail but all fall within the areas shown as foul on the new survey. Two rocks awash have been transferred to the new survey in red.

The contours from this survey were transferred in pencil to the present survey by the field party.

T-1122a (1869).

The older survey shows a somewhat wider fringing reef along a part of the coast but the details are practically the same on both surveys. The S. P. Ry., constructed since the 1869 survey, closely parallels the bluff line on the 1933 survey.

Field Drafting.

The quality of the drafting is good. The reference station, however, should have been inked in black (the color of the projection lines). The lettering of "Pacific Ocean" is excessively large.

6. Additional Work Recommended.

No additional work is necessary.

7. Note to Compiler.

Contours in pencil were transferred from a bromide print of T-1520a (1877). The sheet itself should be given preference, as the bromide print may have been somewhat distorted.

8. Superseding Previous Surveys.

Within the area covered the present survey, with indicated additions from previous survey, supersedes the following survey for charting purposes.

> T-1520a (1877) in part. T-1122a (1869) "

9. Reviewed by - R. J. Christman, October, 1934.

Examined and approved: C. K. Green, C. H. Sueen Chief, Section of Field Records. Chief, Division of Charts.

Chief, Section of Field Work.

Chief, Section of Field Work.

Chief, Division of H. & T.

Capplied to drawing of Charl 5302-Mm. 30,1934-97W.

And to the field Work.

And to drawing of Charl 5302-Mm. 30,1934-97W.

April to new cht. 5280 - 12-7-