

4865

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

OCT 5 1984

Acc. No. _____

Form 504

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

State: California

11-5613

DESCRIPTIVE REPORT.

TOPOGRAPHIC Sheet No. B 4865

LOCALITY:

Pacific Coast.

Pt. Arguello.

192 33

CHIEF OF PARTY:

O. W. Swainson

Applied to drawing of Chart 5302 - Mar. 30/46 - JFW.
" " " " 5202 - Mar 1936 R.M.Z.

Applied to drawing of new chart 5281 10-28-63 RRD

Applied to new chart 5280 - 12-7-63 GRT

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

U. S. COAST & GEODETIC SURVEY
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OCT 5 1934

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 B

REGISTER NO.

State California

General locality Point Sanville Pacific Coast

Locality South of Sanville Point Pt. Arguello

Scale 1:10,000 Date of survey November, 1933

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

Chief of Party O. W. Swainson

Surveyed by R. A. Gilmore

Inked by R. A. Gilmore

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

~~Contour~~ Approximate contour ~~spacing~~ interval 100 feet

Instructions dated November 18, 1932, 19

Remarks:

*Refer to Serial 44-4, 1932
for detailed description
Ref*

DESCRIPTIVE REPORT

TO ACCOMPANY TOPOGRAPHIC SHEET NO. B, VICINITY OF
POINT ARGUELLO, CALIFORNIA COAST

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

O. W. SWAINSON, CMDR.

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, during the month of October, 1933.

CHARACTER OF CONTROL

The usual method of traverse and intersection cuts was used. Sufficient conveniently located triangulation points were recovered. The position of these control points made it suitable to close the traverse at least every two miles. There was no error of closure. The traverse was run along the top of the bluff and the high water line was located by cuts and offsets. Triangulation done by party of F. G. Johnson, 1933.

GENERAL DESCRIPTION AND LANDMARKS

In general the coast line covered by this sheet is marked by a precipitous bluff increasing in height from the southern end to Point Arguello and then assuming a more uniform elevation north to Pedernales Point. This bluff varies from a buff colored shale dirt at the southern end to dark adobe up to the vicinity of Rocky Point. From here north, the bluff is mostly of a dark rock formation. In most cases there is very little, if any, beach. The inshore area from Point Arguello Rock north, is in the main particularly foul.

Tranquillon Mt. Peak (Δ Arguello 1875) is the highest and most pronounced peak in the area covered by the sheet. This point is really a twin peak but only shows as such from the southeast.

The higher elevations present a much more rocky and sharper appearance than those in the foreground, which are, in general, very smooth and grown over with short grass. The whole area is particularly barren of trees. Point Arguello is the most pronounced headland, protruding considerably from the general shoreline and is well defined by buildings, towers, and poles of the light and radio compass stations. As the present location of the light is considered unsafe it is planned to erect a new light further inshore. The probable position of the new light is shown on the sheet. Pedernales Point to the north is quite conspicuous, being marked by a prominent rocky outcrop 145 feet in elevation called Promontory. This point at present is also marked by the wreck of the Japanese ship "Nippon Maru", which is about 400 meters off shore. There are several large indentures caused by erosion shown on the sheet, but are not con-

spicuous enough to be of value for off shore navigation.

The Southern Pacific Railway main line follows in close proximity to the coast. It was thought that the block signals along this line would make good recoverable topographic signals so these were cut in and listed on form 524.

Several other prominent objects embodied in the sheet have been described on form 524.

Several photographs have been enclosed depicting some of the area.

COMPARISON WITH PREVIOUS SURVEYS

A tracing of the bromide of the topography executed in 1877 was made and then transferred to the topographic sheet. In this way a close check could be kept on any changes or discrepancies in the old work while the new survey was being made. In general the old work agreed very well except numerous differences in the designation of rocks awash, and bare. The new survey should be considered final in regards to these rocks.

The bromide tracing was later laid over the new work and carefully compared and any differences in offlying rocks were noted on the bromide.

There was considerable evidence of recession of the shore and bluff line in places due to the character of the formation.

Numerous elevations were obtained to check the previous survey and prominent hills and gullies were checked by inspection. On the whole the elevations check very well except in one case in regards to the elevation of station Alvado (Formerly called Alvord). The bromide shows this elevation to be 1100', whereas Alvado was found to be 1080'. In another instance in Latitude $34^{\circ} 34'$, Longitude $120^{\circ} 33'$, approximately, an elevation was determined which agrees closely with the bromide, yet there seems to be a 100 foot jump in contour intervals on the bromide. North and West of Point Arguello, 1874, the 100 foot contour has been changed from that shown on the bromide to conform to the new elevations. All elevations in red were determined at the time of the survey.

LIST OF NEW NAMES

Names edited N.B.

No new names were assigned. The names shown on the sheet were taken from chart No. 5302.

STATISTICS

Shore line	12.75	statute miles
Area surveyed	9.5	square statute miles
R. R. Line	8.0	statute miles
Roads	10.5	statute miles.

R. A. Gilmore

R. A. Gilmore,
Jr. H. & G. Engineer

Approved and forwarded:

O. W. Swainson
O. W. Swainson,
Commanding PIONEER

Recoverable Plane Table Positions

Name & Description	Latitude	Longitude	Height	Remarks
✓ Pass(Block Sig.No.3166)34 32+1200m 120 33+ 245 meters				center
✓ Pass Rail(Block Sig.No.3151)34 33+576 120 34+ 524				"
Sig (" " " 3148)34 33+935 120 34+1070 117				"
✓ Barn,dark,SuddenEstate 34 33+1415 120 34+1355 117				west apex
✓ Tank,white, " " 34 33+1477 120 34+1327				center
✓ Tie (Block Sig.No.3131)34 33+1132 120 36+ 425 134				"
BlockNo.3128,S.P.R.R. 34 33+1088 120 36+1046				"
" " 3127,S.P.R.R. 34 33+1100 120 36+1052				"
✓ Yel, sml.yel.Tel.Booth 34 33+1176 120 37+ 95				center top
Block No.3124,S.P.R.R. 34 33+1200 120 37+ 344				center
Block No. 3123, S.P.R.R.34,33+1206 120 37+ 345				"
✓Block No. 3118, " 34 33+1285 120 37+ 930				"
✓ Small Red Water Tank 34 34+ 54 120 37+ 346				"
✓ Can, W.W.Cairn of rocks 34 33+1207 120 38+ 148 88				
Pin, Pinnacle rock 34 34+ 284 120 38+ 745 15				Top
✓ Block No.3109, SPRR 34 34+ 462 120 38+ 180 237				Center
✓ RR Toolhouse, yellow 34 34+ 995 120 38+ 494 218				North apex
Arlight, R.R. building (waiting room) 34 34+1107 120 38+ 508				West apex
Block No. 3104, SPRR 34 34+1120 120 38+ 483				Center
✓ H1, N.R.C. Pole 34 34+1157 120 38+ 764				
Rad, E. Navy Radio Pole 34 34+1185 120 38 +1030 110				
✓ West Navy Radio Pole 34 34+1166 120 38+1123 103				
East Tower,Radiobeacon 34 34+1160 120 38+1385				Steel tripod
West " " " 34 34+1147 120 38+1455				" "
Flag Pole 34 34+1136 120 38+1308 106				

Unrecoverable Plane Table Positions for
Sheet B, Continued

Name and description	Latitude	Longitude	Height	Remarks
Nab, banner on pole	34° 33'	120° 38'		
Ash, Whitewash on rock	34 33	120 38		
Dirt, Pinnacle of dirt	34 33	120 38		
Jim, banner on pole	34 34	120 38	117	
Sit, small black flag	34 34	120 38	118	
Out, W.W. on face of bluff	34 34	120 38		
Net, W.W. on face of bluff	34 34	120 38		
Mis, W.W. on bluff	34 34	120 38		
On, flag on post	34 34	120 38		
Lar, banner on pole	34 34	120 38	70	
Sma, banner on pole	34 35	120 38	85	
Gre, flag on pole	34 34 ⁵	120 38	89	
Red, banner on pole	34 35	120 38	115	
Hor, W.W. boards	34 35	120 38		
Blue, banner on pole	34 35	120 38	92	
White, W.W. boards	34 35	120 38		
Maru, wreck of Jap ship	34 36	120 38		Foremast

Recoverable Plane Table Positions Continued

Name and Description	Latitude	Longitude	Height	Remarks
✓Block No. 3097, S.P.R.R.	34° 35' + 545 ^m	120° 38' + 484 m.		Center
✓Block No. 3092, S.P.R.R.	34° 35' + 1332	120° 38' + 331	144	"
✓W. Apex of RR Bldg.	34 36 + 108	120 38 + 325		Yellow
✓Nub, W.W. rock outcrop	34 36 + 108	120 38 + 623	100	Prominent nub.
✓Block No. 3085, S.P.R.R.	34 36 + ³⁴⁵ 887	120 38 + 287		Center

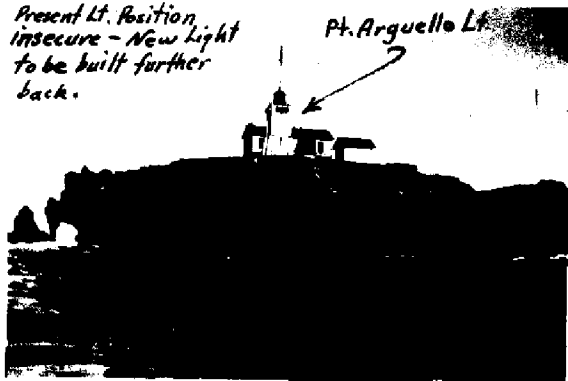
Unrecoverable Plane Table Positions for
Sheet B.

Name and description	Latitude	Longitude	Height	Remarks
Dry, W. W. boards	34° 32'	120° 33'	36	
Er, banner on pole.	34 32	120 33	35	
Tat, banner on pole.	34 32	120 33		
Sit, White banner on pole	34 32	120 33		
Wave, Black & White flag	34 33	120 34		
Dad, banner and flag on pole	34 33	120 34		
Bo, W. W. boards	34 33	120 34	110	
Cross, banner on pole	34 33	120 34	93	
Stripe, cloth-covered boards	34 33	120 35		
Ban, banner on pole	34 33	120 35		
Fence, Fence post	34 33	120 35		End of fence.
Lum, W. W. boards	34 33	120 35		
Cat, whitewash	34 33	120 35		Foot of bluff.
Pig, banner on pole	34 33	120 36	52	
Wash, whitewash boards	34 33	120 36		
Post, banner on post	34 33	120 36		
Red, banner on pole	34 33	120 36	43	
Flag, flag on pole	34 33	120 36	42	
Try, small tripod & flag	34 33	120 37		
Lit, banner & flag on pole	34 33	120 37		
Dope, W.W. rock & flag	34 33	120 37		
Boy, whitewash boards	34 33	120 37		
Nose, W.W. face of bluff	34 33	120 37		
Pow, W. W. face of bluff	34 33	120 37		
In, W.W. on bluff	34 33	120 37		

Snapshots of Vicinity
of Sheet "B"

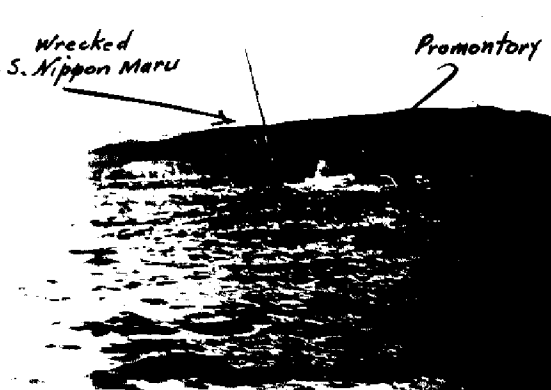
Present Lt. Position
insecure - New Light
to be built further
back.

Pt. Arguello Lt.



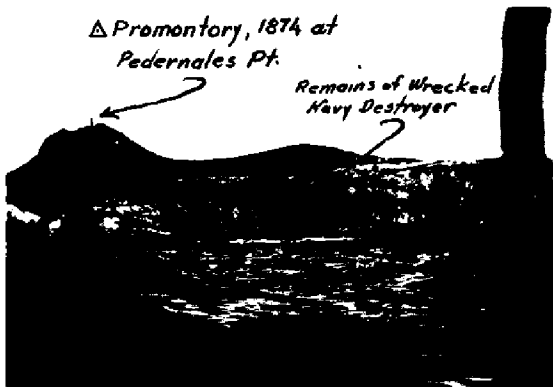
Wrecked
S.S. Nippon Maru

Promontory



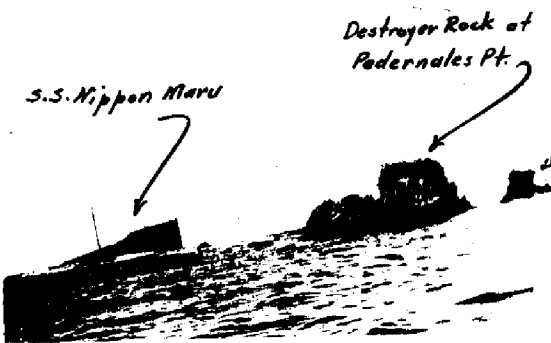
△ Promontory, 1874 at
Pedernales Pt.

Remains of Wrecked
Navy Destroyer



Destroyer Rock at
Pedernales Pt.

S.S. Nippon Maru



Pt. Arguello Lt.



Survey No. T 4865

Chart No. 5202 & 5302

Date. Oct. 16, 1934

Diagram No. 5202-2 & 5302-2

CALIFORNIA

Names underlined in red approved Oct 17, 1934
JHB

Ⓢ, 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
		See WR H5509			
HB	^{Revised} <u>Pedernales Pt.</u>	Pt. Pedernales (USGS)	-----	-----	34° 36.3' 120° 38.7'
HB	<u>Pt. Arguello</u>	Pt. Arguello (USGS)	-----	-----	34° 34.7' 120° 39.4'
HB	<u>Rocky Pt.</u>	Rocky Pt. (USGS)	-----	-----	34° 33.7' 120° 38.6'
HB	<u>Tranquillon Mt.</u>	Tranquillon Mt.	-----	-----	34° 34.9' 120° 33.6'
	Stet ^{He} Tranquillon	El. Tranquillon (USGS)			
	unless inquiry should develop necessity of changes JHB				
	Arguello (see U.S.G.S. Guadalupe Quad.) is a S.P.R.R. flag stop probably at the "Yellow R.R. Tel. Booth." Hardly of enough importance to put on survey or chart. HB				34° 33.6 120° 37+
HB	<u>Arlight. P.O. and R.R. Sta. near Pt Arguello.</u>				34° 34.6 120° 38.3

REVIEW OF TOPOGRAPHIC SURVEY No. 4865

Title (Par. 56) *Pt. Arguello, California*Chief of Party *O.W. Swainson* Surveyed by *R.A. Gilmore* Inked by *R.A. Gilmore*Ship *Pioneer* Instructions dated *Nov. 18, 1932* Surveyed in *Nov. 1933*

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.)
Closures not listed
4. The amount of vertical control that the Manual specifies for -contours-~~for lines~~ was accomplished. (Par. 18, 19, 20, 21, 22, 23.) ✓
5. The delineation of -contours-~~for lines~~ is satisfactory. (Par. 49, 50.) *No new contours drawn - Check elevations on old contours taken*
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.) ✓
New elevations were taken on most of the summits
12. ~~The tree line was shown on mountains. (Par. 16g.)~~

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

T-1520-b (1877)

This survey, although on the same scale as the present survey, does not show the detail as clearly as the present survey. On page 2 of the Descriptive Report is given a field comparison between T-1520-b and the present survey. The bromide on which corrections were made in the field was not received in the office.

Several rocks which did not appear on the present survey but were shown on T-1520-b (1877) have been brought forward to the present survey in red. Other rocks and reefs on the two surveys are in fair agreement individually or are within the foul area line.

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.) *None 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.) *2 Meridians shown - Both check value on chart.*
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 4864 (1935-4) on the East
Joins T 4851 (1933) on the North
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. O. Bush Jr* July 9/19 36

Examined and approved:

C. H. Green
Chief, Section of Field Records

L. O. Polk
Chief, Division of Charts

Fred. L. Peacock
Chief, Section of Field Work

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