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State: California	Acc. No.	<u> </u>	·
DESCRIPTIVE R	EPORT	_	···
Topographic Hydrographic #D		ļ	
LOCALITY		ļ	
South San Francisco Bay		ļ	
Dumbarton Bridge to San Mateo-Haywards		<u></u>	
Bridge			
19#3		 	
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CHIEF OF PARTY			
G. C. Jone S		<u> </u>	
COVESOMENT PARTON CITICS			

Form 537a

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

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NOV. 28	1957	EG. NO

TOPOGRAPHIC TITLE SHEET

Acc. No.	
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The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field LetterD
REGISTER NO. 4604
StateCalifornia
General locality <u>South San Francisco Bay</u> Dumbarton Bridge to Locality — San Nateo-Haywards to Dubbarton Bride
Scale 1:10,000 Date of survey Feb. to April 19 31
Vessel Project # 70
Chief of Party G. C. Jones
Surveyed by H. C. Applequist
Inked by H. C. Applequist
Heights in feet above IHW to ground to tops of trees
Contour Approximate contour Form line intervalfeet
Instructions dated Sept. 8, 1931 , 19
Remarks:

DESCRIPTIVE REPORT

TO ACCOMPANY SHEET MO. D

PROJECT NO. 70, INSTRUCTIONS DATES SEPT. 8, 1930

TOPOGUAPHY ALONG SOUTH SAN FEARCISCO BAY FROM

THE SAN MATEO-HAY ARDS BRIDGE TO THE DUIBAPTON BRIDGE.

G. C. Jones, H. & G. E. Chief of Party

H. C. Applequist, Aid Field Work

DESCRIPTIVE REPORT

TO ACCOMPANY SHEET D

PROJECT NO. 70, INSTRUCTIONS DATED SEPT. 8, 1931

a. Description of Area:

In the area covered by this sheet extends from the San Mateo-Haywards Bridge Road on the North, to the Dumbarton Bridge Road on the South; and from the shoreline back to solid ground in all places and to main highways and railroads where these closely

parallel the marsh.

The greater portion of this area is covered by salt ponds, practically all of which are in use at the present time. The marshy areas at Lat. 37 37, Long. 192 07, and at Lat. 37 36, Long. 122 07, are owned by the salt company and are to be converted into salt ponds. Only the larger levees are shown by the conventional levee symbol, the remainder are shown by full lines. Many small broken levees and dykes are not shown.

The marsh north of Lat. 37 38.5 and east of long. 122 07 is all fairly well drained and most of it is used for pasture. The marsh east of the Coyote Hills is also used for pasture. There is no well defined marsh line, as it grades from real marsh at the egges of the hills to solid ground at the east edge.

b. Character of Control:

The topography was controlled by the triangulation stations located in 1895, 1906, 1925, and by those established by this party. The transmission line along the east edge of this area was also used for control in those portions of the sheet where an insufficient number of triangulation stations were visible to secure good three-point fixes. The tower at the bend in the line was located by triangulation, the azimuth of the line was secured by setting up under this tower, and the individual towers then located by plane table cuts from other triangulation stations.

c. Closing Errors of Traverses and How Adjusted:

	Error (meters)
Traverse	Distance	Azimuth
Salt to Dick	4	8
Dick to East Tower Dumbarton Bridge	9	_
East Tower Dumbarton Bridge to South Red Hil	1 5	3
South Red Hill to Tank, Calif, Salt Works	4	3
Salt to Leslie	3	_
Salt to Derrick	. 4	2
Derrick to Tank, Calif. Salt Works	3	3
Derrick to Transmission Tower at Bend	3	-
Transmission Tower at Bend to Turk	5	2
Tank, Calif. Salt Works to Dick	_	3
Tank, California Salt Works to Turk	2	2
South Red Hill to Turk	10	3

The errors in all these traverses were within th limits given in the Topographic Manual. The errors were edjusted by distributing them proportionally over the traverses with the exception of the traverse from South Red Hill to Turk. In this traverse the line was begun at South Red Hill and run back around the hills thoust halfway to Turk. Ever this portion of the line the triangulation stations were cut off by the adjacent hills and the tronsmission line had not yet been located. The other portion of the line wis run from Turk and closed in on the last setup of the first portion of the line. Over this portion of the line the transmission towers were available for a check by three-point fixes. The effect, the total error of about 10% meters was arbutrarily spread: 3 meters to the Turk end of the line and the remainder to the South Rod Hill end of the line.

d. Description of Auxiliary Surveying Methods:

Range p les offshore, were located by plane table cuts. Three or more cuts were used in all cases.

Merever possible, three-point fixes were used to check setups and any unusual error was immediately investigated and corrected.

e. Topographic Changes:

The rea west of the Coyote Hills, shown as marsh on the old charts has all been converted into salt ponds. Hill Clouch and Tennion Slough have been confined and cut off by the salt pond levees and are impassable for even a small skiff.

f. Control for Aerial Photography:

A list of plane table resitions of objects hich can probably be identified for control of photographs is included at the end of the report.

- g. The shoreline north of the triangulation station Salt, has two distinct verticle edges. The arch between there two is covered by about a foot of water at high tide. Both edges are shown on the sheet. The shoreline south of signal Wen is similar.
- h. Distortion of Sheet:

The maximum distortion of the sheet was about 10 meters per mile empansion. The maximum contraction was about 5 meters per mile. The distortion was fairly uniform over the sheet.

H. C. Appleguist

Aid

Approved

Chief of Party

LIST OF PLANE TABLE POSITIONS OF OBJECTS THICH CAN PROBABLY BY IDENCIPIED FOR COMPROL OF AIRTLANE PHOTOGRAPHS.

DESCRIPTION	LIT. & LONG.	SICOPDS IF LIMERS
Ras, Hydro signal exactly at E. end of Dumbarton Bridge, N. Side.	37 [°] 30; 122 [°] 06	1262.7 876.0
Wooden Water Tank Arden S:1t Co.	37 32 122 03	107 979
'hite w oden water tank near white house	37 33 122 04	263 1151
Green tank, near road to "urk Is. Salt Co.	37 34 122 05	767 7
Wooden water tank	37 36 122 06	1468 228
Drawbridge across Ht. Eden Slough, E. end	37 37 122 07	3 978
White wooden water tank	37 36 122 08	511 850
Wooden water tank, N of Pioneer Salt Co.	37 35 122 08	1140 741
S.E. corner of Continental Salt Co. plant		645 829
Bridge across Coyote Hill Slough, E. end		179 638
Salt Shaker, Leslie, red and white adv.	37 37 122 08	402 911