

Form 504 Rev. Dec. 1933

#### DEPARTMENT OF COMMERCE

U.S. COAST AND GEODETIC SURVEY R. S. PATTON, DIRECTOR

## DESCRIPTIVE REPORT

Topographic | Sheet No.T-5371

U. S. COAST & GEODETIC SURVEY LIBRARY AND ARCHIVES

JUL 17 1934

Acc. Ne. .

State CALIFORNIA

LOCALITY

Southern California

From the Mexican Boundary

North to Chula Vista

193 4

CHIEF OF PARTY

Robert W. Knox, H.& G. Engr/

U. S. GOVERNMENT PRINTING OFFICE: 1834



applied to cht. 5-107 2.m.a. 3et. 1936 applied to Chart 510# C.M.Z May 26, 1936 Form 537a Ed. Nov., 1929

## DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

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### TOPOGRAPHIC TITLE SHEET

NOV 8\_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 No.\_\_\_\_\_

REGISTER NO. T-5371 5371 State CALIFORNIA General locality SOUTHERN CALIFORNIA Locality MEXICAN BOUNDARY TO CHULA VISTA photographs December 22, 1933 Scale Date of Survey Vessel Project No. 102, Launch and Finis Party, California Chief of party Robert W. Knox Surveyed by See data sheet in descriptive report Inked by Heights in feet above to ground to tops of trees Contour, Approximate contour, Form line interval.....feet Instructions dated April 14 1932 and supplementall9 Remarks: Compiled at a scale of 1:10,500 for reproduction at a scale of 1:10,000. Compilation of aerial photographs Nos. 37 to 74, inc. Reduced to scale and printed by photo lithographic process.

### DATA SHEET

## NÖ. T-5371

PORTION OF WORK	DONE BY	DATE COMPLETED
PROJECTION PLOTTED	Marie S.B. Lane	April 16, 1934
PROJECTION CHECKED	John 6. Mathisson.	April 16, 1934
CONTROL PLOTTED	John & Mathesson	April 17, 1934
CONTROL CHECKED	S.B. Lane	April 18, 1934
RADIAL LINE PLOT	John E. Thadusson. J.C. Mathisson	April 27, 1934
RADIAL PLOT CHECKED	T.P.Pendleton	April 27, 1934
COMBITED IN BENCIT	John C. Mathisson	May 16, 1934
INKED	John & Mathisson J. C. Mathisson	June 18, 1934

PROJECT NO. HT 102

DESCRIPTIVE REPORT

SHEET NO. T-5371

STATE OF CALIFORNIA

MEXICAN BOUNDARY TO CHULA VISTA

### PROJECT INFORMATION

This project includes five sheets, , Registry Numbers T-5371 to 5375 inc., compiled from aerial photographs. These five sheets cover the area between the United States-Mexico Boundary Line and a point on the coast one quarter of a mile south of the Scripps Institute Pier, north of La Jolla.

The compilation was authorized by letter from the Director dated April 14, 1932, and supplemental instructions dated March 16, 1934 and May 9, 1934.

All five of these sheets have been compiled on a scale of 1:10,500 for reproduction at a scale of 1:10,000.

Photographs were secured by the 23rd Photo Section, U.S.Army, March Field, California. Camera No. AC 31-79. The date and time of photographs are given in the descriptive reports of the sheets to which they apply.

A copy of the index map furnished with the photographs is attached.

No field inspection report of this area was prepared as no field inspection was made prior to the compilation. In this case such an inspection was regarded as an unnecessary expense and delay as the work of compilation was done in San Diego and the draftsman compiling a sheet was able to make a personal inspection of all doubtful details.

### GENERAL DESCRIPTION OF AREA

The area of these sheets includes several localities of moderately high relief. The low land toward the south end of San Diego Bay slopes gently upward to the east. In the vicinity of Old Town, San Diego, this rise is rather abrupt and is cut by steep canyons.

The high mountains south of the International Boundary extend across the line in the form of high mesas from 300 to 400 feet in elevation. These mesas break abruptly to the bed of the Tia Juana River.

The area surrounding Mission Bay is low and marshy. A ridge of comparatively high relief extends southward from the mouth of Mission Bay to form Point Loma and the western shore of the entrance to San Diego Bay. North of Mission Bay the area is high

and rolling from the ocean inshore. This area attains a height of approximately 800 feet at Soledad Mountain, and then slopes downward to the north to the limits of the project.

The entire area is covered with a scanty growth of desert vegetation except in populated areas and areas under cultivation.

That area which forms the west shore of San Diego Bay -- Silver Strand, Coronado, and North Island -- is low and sandy. On the bay side of Silver Strand there are many marsh areas with marsh grass extending beyond the high water line into the waters of the bay.

San Diego and the Tia Juana, are normally dry washes, and have been so shown on these sheets. There is an underground flow in most of the streams, but water is visible only at rare intervals, usually several years apart. For this reason the streams other than the San Diego, Tia Juana, Sweetwater, and Otay Rivers, are usually referred to as "canyons" or "valleys." Due to the fact that the most prominent features of these streams on these sheets is the tidal stream at the mouth of each, the term "Canyon" or "valley is not appropriate. For this reason streams, other than those

usually designated as rivers, have been marked "creek."

GENERAL DESCRIPTION OF COMPILATION METHODS
Trimming and Mounting

All photographs were trimmed and the majority mounted by civilian personnel before the arrival of the writer in San Diego. The "B" prints were trimmed at 68.5 mm. in order to eliminate the black portion from the junction with the wing prints. The trimming distances of the wing prints was determined and the prints trimmed as follows:

"A" prints	70.0 mm.
"C" prints	70.25 mm.
"D" prints	70.0 mm. minus
"E" prints	70.0 mm. plus

### "B" Prints

Four sets of "B" prints were furnished,
two on Bromide paper and two on Contrast paper. The
prints on Contrast paper failed to develop detail
which was clear on the Bromide prints, and so were not
mounted. The continued use of the smooth Bromide
paper is, therefore, recommended.

### Wing Prints

Some of the wing prints were inaccurately transformed, as evidenced by the failure of the images

of the wing prints not matching the detail of the "B" prints. Such photographs were not used in the compilation after they were detected.

The wing prints were furnished on a rough surface paper. It was found very difficult to draw fine radial lines on this paper due to the absorbtion of the ink and the consequent blurring.

### Center Point

Due to the great amount of control included in the recent triangulation of this area, and to the fact that several of the flights were made on a curve, instead of on a straight line, no attempt was made to mark the centers of adjacent pictures on the "B" prints. In this case this would have been of no particular help, and was therefore regarded as an unnecessary expense and delay.

When the existing control was inadequate to rigidly fix the photographs, additional points were located by the odolite three-point fixes. A list of the original control, showing the plotting distances for a scale of 1:10,500, together with a list of three-point positions, is appended elsewhere to this teport.

### Radial Lines and Detail

The radial lines were drawn on the celluloid sheets in pencil. It is believed that a closer determination was obtained than could have been obtained by the use of inked lines.

The line detail was first traced in pencil on the celluloid sheets and then inked. This method proved very satisfactory and the draftsman was able to accomplish a neat job of inking.

The streets and roads as shown on these sheets do not represent the actual width. The center lines were located in the radial plots and widths assigned to different type of streets and roads. The widths conform very closely to the actual widths and are within the right of way of the various roads. In general, the following table was used for this purpose:

Main State Highways	2.0 mm
Secondary State Highways	1.75 mm.
City Streets	1.50 mm.
Country Roads	1.25 mm.
Private and Second Class	1.00 to 0.5 mm.

### SIZE OF SHEETS

The border lines — shown in blue — enclose an area 27 5/8 inches wide and 43 7/8 inches long. These dimensions were figured to bring the sheet to size when enlarged to scale of 1:10,000. The projection lines and triangulation stations outside of this line but

used in the compilation of the sheet are shown for use in the office verification.

### INFORMATION FROM OTHER SOURCES

A few topographic features along the waterfront have been built or changed since the date of the photographs. These changes have been located by stadia on aluminum plane table sheets and transferred to the celluloid sheets.

In such cases proper attention is called to the fact in the report on compilation.

Right of way maps of the line of the Atchison

Topeka and Santa Fe Ry. from the north edge of the

project to the end of their line in National City were

furnished by that railway and used to check the location

of the line, particularly the number of tracks in yards

and the location of spurs.

Maps of the line of the San Diego and Arizona Eastern Ry. were furnished by that line. These maps included the line to Coronado as well as their main line south from San Diago to the International Line. They were used in the same way as the maps of the Santa Fe Ry.

Official maps of all naval reservations in

area of this project were furnished from the Public Works Office of the 11th Naval District. These maps were particularly valuable in locating buildings and such features on these reservations.

The Commanding Officer of the 11th Naval District requested that the fuel oil tanks at the Reserve Fuel Depot of the navy on Point Loma and the fuel tanks on North Island be omitted from the chart. This has been done, although the fuel oil tanks on Point Loma appear on earlier editions of C.& G.S. charts.

Several highway projects are now under construction by the Highway Division of the State of California. This work was shown on the sheets from maps furnished by the local office of the Division of Highways.

Quadrangles of the U.S.G.S. were used to compare with these sheets.

The County Surveyor of San Diego County
was consulted in regard to the status of County
Highways and other matters under the jurisdiction of
his office.

The City Engineer of the City of San Diego was consulted in regard to the street layout of San Diego. The Harbor Engineer of the City of San Diego

furnished a city map of the waterfront of San Diego.

Map of San Diego Bay was furnished by the U.S. Engineer Office, Los Angeles, together with information as to the army system of rectangular co-ordinates.

Maps from other sources were used as a check.

All information on them that varied in any way from
the photographs was verified before being used.

### U.S.ENGINEER RECTANGULAR CO-ORDINATE GRID

The U.S.Corps of Engineers makes use of a system of rectangular co-ordinates in their surveys of the harbor area. This system is based on C.& G.S. triangulation station OLD TOWN. This system is also in use by the the Public Works Office of the U.S.Navy, the Harbor Department of the City of San Diego, and others.

The station OLD TOWN has been reported lost.

Before plotting the grid on these sheets is was necessary to determine the position of OLD TOWN on the 1927

Datum.

This was done by conversion of rectangular co-ordinate values of triangulation stations POINT LOMA LIGHT, (OLD) 1933 and MARSH, 1933. This computation resulted in the following geographic position:

OLD TOWN Lat. 32 - 45 - 02.841 Long. 117 - 11 - 07.194

After the construction of the rectangular grid from a number of converted geographic positions and values furnished by the U.S.Engineers, additional values were computed to check the construction. A list of these co-ordinates is appended.

This grid is shown on sheets covering the bay areas. Each 10,000 foot line is numbered in the border of the sheet.

### SUPPLEMENTAL CONTROL

In the area of these sheets numerous theodolite three point fixes were made to more rigidly control the radial plot. These stations are shown on the sheets by the standard symbol for triangulation stations. There being no printed names available, the names are shown on the cover name sheets.

In all cases the point shown on the sheet is the picture point, and not the set-up of the three point, except when the set-up was the picture point.

There are approximately thirty-three thodolite three point fixes. The check computation on a fourth point proved all except three to be within third order accuracy.

These computations, together with the inverse

computations necessary for them, are being transmitted. These stations have been described on Form No.524

Jr. H.& H. Engr. U.S.C.& G.Survey

Respectfully forwarded approved:

Robert W. Knox H.& G. Engr. Chief of Party

U.S. COAST AND GEODETIC SURVEY

# LANDMARKS FOR CHARTS

San Diego, California

July 6, 1934 193

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:

See also Page 20 of This report.

		9		Bg	J.		Chief of Party.
	POSITION			· ····	:		
DESCRIPTION	LATI	TUDE	LONG	ITUDE	DATUM	METHOD OF DETER- MINATION	CHARTS AFFECTED
	0 I	D.M. METERS	o +	D.P. METERS			
1,2,3 Oil Derrick	32-33	965.2	117-06	630 • 6	1927 N.A.	Triang	5102
Richfield Tower	32-34	1538.5	117-05	4.9	đo	do	5102
Salt Works	32-36	180.9	117-05	840.0	đo	do	5107
outh Hast 1,2,3	32-35	326.5	117-07	1351.7	đo	do	5101 5 <b>102</b>
Red Stack	32-36	693.7	117-04	1491.0	đo	do	5102
2,3 Silo Type Structure		789.8	117-07	1489.2	do	đo	5101,5102 5107
est Gable 3 bandoned Mill Blåg.	32-38	33.6	117-06	479.0	đo	Air Photos	5107
Cupola, so end 3 Cottonseed Warehse.	32-38	774.2	117-06	920.4	đo	Triang	5107
South of 3 Four Black Tanks	32-39	603.2	117-06	89 <b>1.</b> 5	đo	Air Photos	5107
Brewery Flag Pole	32-41	244.3	117-07	790.1	đo	Triang	5107
Silver Stack	32-40	1321.4	<b>117-07</b>	578.3	do	<u>d.o</u>	5107
So.west Corner 3 White Sawtooth Bldg		436.3	117-06	1111.	do	Air Photos	5107
Neon Sign 3 A.B.C.Brewery	32-41	1168.1	117-08	529.2	do	Photos	
1,2,3 Largest Gas Tank	32-42	853.5	117-09	224.7	do	Triang	
Tower 1,2,3 Coronado Hotel		1513.6	117-10	997.9	do	đo	5101,5102 5105,5107

A list of objects carefully selected because of their value as landmarks as determined from seaward, together with individual descriptions, 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.

Chief of Party to his descriptive report.

The selection, determination, and description of these points are an important factor in the value of the chart. Landmarks selected at appropriate intervals can be clearly charted. However, when none is outstanding, a group of two or three objects may by their interrelationship provide positive indentification. A group so selected should be indicated.

The description of each object should be short, but such as will clearly identify it; for example, a standpipe, elevated tank, gas tank, church spire, tall stack, red chimney, radio mast, etc.

Assign numerals to landmarks to indicate: (1) Offshore.

(2) inshore, (3) harbor, 1, 2, 3 would be a mark useful on all charts. Generally, flagstaffs and like objects are not sufficiently permanent to chart. U.S. GOVERNMENT PRINTING OFFICE: 1934 | 25370

U.S. COAST AND GEODETIC SURVEY

### LANDMARKS FOR CHARTS Page 2 of 4

San Diego, California

<b>*</b>	* **
377 777	E - 4 C/A/I
BULLY	6. 1934

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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:

		<del></del>	== <del></del>			<del></del>	Chief of Party.	
	POSITION							
DESCRIPTION	LAT	ITUDE	LONG	ITUDE.	DATUM	METHOD OF DETER- MINATION	CHARTS AFFECTED	
	0 1	D.M. METERS	a 1	D.P. METERS	DATUM			
	3	2574.0		(61.4)	1927	Mand a sec	E3.0E #3.0#	
Black Tank	32-41	1374.0	TTA-OA	1501.7	N-A-	TLIBIE	5105,5107	
1,2,		3 6 6 4 6		126.1	_ do_		5101,5102	
Exposition Tower	32-43	1004.0	117-09	12041	0.0	- đo	<del>5106</del> ,5107	
Stack 2,	0 00 00	000.0		1202.2	đo.		E3.0E E3.0F	
Savy Hospital	32-43	862.6	117-08	Lavasa	av_	- 60	5105,5107	
Flagpole 2		700 0		cro s	- do	ao	E305 5707	
El Cortes Hotel	32-43	390.0	117-09	659+7	ao_	- 40	<del>5105</del> -5107	
2,	3			405 5			5105.5107	
West Tank, Navy Hd.		1695.0	#47-4U	481.3	do	80		
1,2,	3			010			5101,5102	
indberg Beacon		1756.0	117-09	1	đo	ao_	<del>5105</del> ,5107	
ast Radio Twr.2,			***	(587.14)	H .		F30F F30#	
J.S.Grant Hotel		1789.9	117-09	975.4	_do_	_do_	5105,5107	
West Radio Tower	8,8							
J.S.Grant Hotel		1789:5	117-09	1024.2	40	ao	5105,5107	
Cupola Adm. Bldg.	3						5105.5107	
Andberg Alrport	0	1791.4	117-10	807+9	go	do	2102-2104	
	,3				<u>.</u>	_		
Stack, Brick	,	1235.8	117-11	1223:1	do_	do_	5105,5107	
White Tower 2,					_	<u> </u>	5101,5102	
Junipero Serra Mu	sm 32-45	1077.0	117-11	867.2	_do_	do_	<u> </u>	
Stack	3							
Amer Agar Co.	32-44	<del>  915.3</del>	117-10	1524.8	<u>8</u> 0	do_	5105,5107	
steel Stack	3				_	<u>ي</u>		
Portola Sardine Co		411.7	117-13	1089.5	_do_	do	5105,5107	
Light on Towr.1,2					_		5101,5102	
Admin. Bldg.		1238.0	117-11	857-1	do_	do	5105,5107	
2,	3	1	}					
No.Redio Tower	32-41	1723.4	117-11	1183.6	0_	do	5105,5107	

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Generally, flagstaffs and like objects are not sufficiently permanent to chart. U.S. GOVERNMENT PRINTING OFFICE: 1934 25379

U.S. COAST AND GEODETIC SURVEY

# LANDMARKS FOR CHARTS Page 3 of 4

San Diego, California

July 6, 1934

, 193

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:

							Chief of Party.
	POSITION						,
DESCRIPTION	LAT	ITUDE	LONGITUDE		DATUM	METHOD OF DETER- MINATION	CHARTS AFFECTED
	0 I	D.M. METERS	0 1	D.P. METERS	DATOM		
2,3					1927	·	
Sc. Radio Tower	32-41	1601.4	117-11	1183	H.A.	Triang	<b>5105,5107</b>
2,3					.;	٠,	5101,5102
Searchlight Tower	32-41	694.4	117-11	1476.2	do	do	5105,5107 <u></u>
Stack	L			3.60	13	,	
Pt.Loma High School	32-44	724.8	117-13	733.2	do_	do_	5105.5107
1,2,3				, , ,			5101,5102
Theosophical Dome	32-43	250.6	117-14	1456.7	do		5105,5107
1.2,8		, ,	• • •	.:	<i>-</i> -,		5101.5102
Water Tenk	32-42	864.6	117-14	1409.1	_do		5105.5107
2,3				7			
East Radio Tower	32-42	756.7	117-14	1188.9	do	no r	5105.5107 🖊
2.3			,		7.		
West Radio Tower	32-42	828.8	117-14	1366-2	ão:	80 1	5105,5107 ~
1,2,3							5101,5102
Pt.Loma Lts. (016)	<b>32-40</b>	583.4	117-14	633-2	do	An V	5105,5107×
2.2						- 40	ETOT ETOD
Bennington Monum't.	32-41	724.6	117-14	958.7	do		5101,5102
2		F 60-38 B 10	TT1-T-3	20041	40	- 00	510 <b>5</b> ,5107 🗡
Brick Stack	32-44	1493.1	79 <i>7</i> 7-72	346.0	đα	:#La.	CHAR I
2.2		4.270.44	TTA-TO	090-0	00		5107
Oil Derrick	<b>82-4</b> 5	1366.0	448 45	70 -			
2.3		TOODAN	1114-10	36-5	<b>do</b>	-ão	<del>5101,510</del> 2—
Morena Air Beacon	52-48	3504 5			_		<u> </u>
MOTERS AIT DESCON	72-48	1526.5	117-12	149.2	do-	<del>do</del>	5101,5108
Dome on double	70.46				,,		
Dome on Casino	<b>32-46</b>	307.6	117-15	69-5	do	- đo	<del>5101,5102</del>
	L						·
rour Square Dome	<b>52-47</b>	1438-4	117-15	551.7	do-	- do -	5101 <u>.5102</u>
,2			•	~ .	. *		-
Easter Cross	<i>32=50</i>	703.2	117-14	978.7	- do	_do_	5101 5102

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U.S. GOVERNMENT PRINTING OFFICE: 1934 25870

U.S. COAST AND GEODETIC SURVEY

# LANDMARKS FOR CHARTS Page 4 of 4

			San Diego, California				
•	•			· •	-		
					July 6,	1934	, 193

DIRECTOR, U.S. COAST AND GEODETIC SURVEY:

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, G		•	<u> </u>	<del></del>		<del></del>	Chief of Party.
	Ī		POSITION		<del></del>		
DESCRIPTION	LAT	ITUDE	LONG	ITUDE	DATUM	METHOD OF DETER- MINATION	CHARTS AFFECTED
	0 I	D.M. METERS	0 t	D,P. METERS	DATUM		
Bishops Dome	32-50	911.4	117-16	1062.1	1927 N.A.	Trianz	5101.5102
Dome. Valencia Hote	)				đo	đo	5107.5102
Observatory Tower	32-50		117-15			đo	5101,5102
cross on Church Sm		1251.6		. " .		ão	5101,5102
Round Brick Stack	i [	1802.8		•		đo	5105.5107
Boundary 1,2 Monument No. 258	32-32	4, 4,	117-07	492.8	<b>,</b>	do	5108,5101
				19			
* * * * * * * * * * * * * * * * * * *							
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U.S. COVERNMENT PRINTING OFFICE 1934 25379

# U.S.ENGINEER CO-ORDINATES OF VARIOUS STATIONS DISTANCES IN FEET

*	ADMINISTRATION, 1933	14417.6	south	2196.7	west
*	EXPOSITION TOWER 1916	6985.8	south	10452.4	east
*	CORONADO TOVER	25641.5	south	2469.5	east
*	FLAGPOLE ON BREWERY 1933	23737.4	south	18536,8	east
*	MARSH 1916	40796.2	south	14631.7	east
	WHITE TIPPED BLACK STACK, 1933	43226.9	south	26433.9	east
*	FINIAL OF BLACK TANK!	20033.7	south	5941.4	east
*	RADIO	59571.0	south	16643.3	east
	SILVER STRAND 1933	33205.6	south	932 <b>1.2</b>	east).
	LARGEST GAS TANK IN SOUTH SAN DIEGO 1933	15,677.0	south	10131.5	east
	SOUTH TOWER CASTELLATED BUILDING, 1933	27163.9		4725.6	east
	FLAG POLE MEMORIAL JR. HIGH SCHOOL, 1933	19338.3	south	16337.4	east
	DUNE 2, 1933	49806.3	south	16168.0	east
	BASIN, 1933	58367.1	south	21924.9	east
	FRUIT 1933	52824.7	south	29478,4	
*	BAY, 1908	52961.4	south	18268.8	east
	FLAG POLE DESTROYER BASE, 1933	25192.1	south	18528.8	east
	NORTH RANGE MARKER LOWER BAY, 1933	41044.8	south	19438.9	east

T-5371

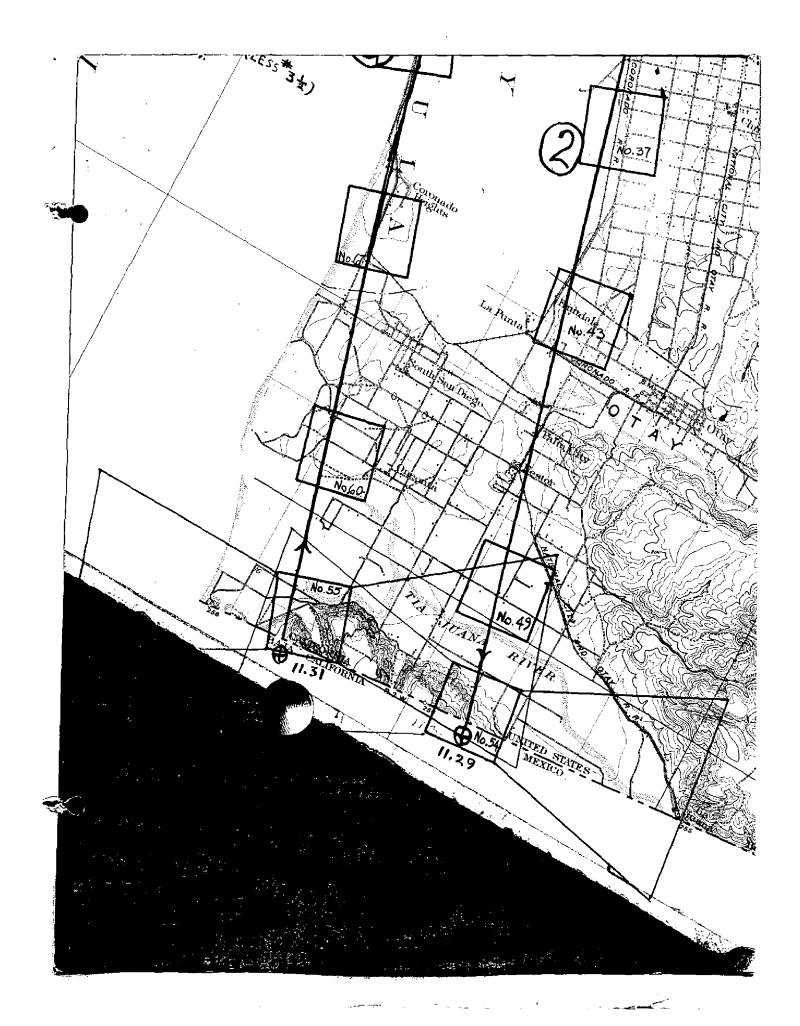
## U.S.ENGINEER CO-ORDINATES OF VARIOUS STATIONS

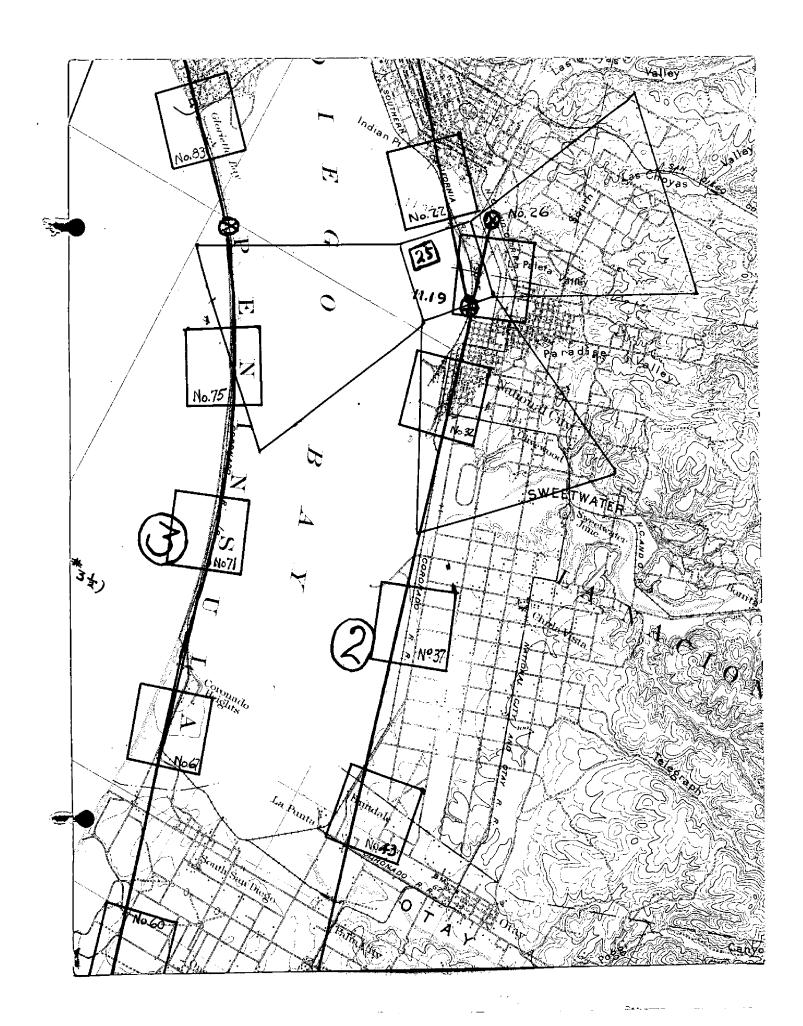
## DISTANCES IN FEET

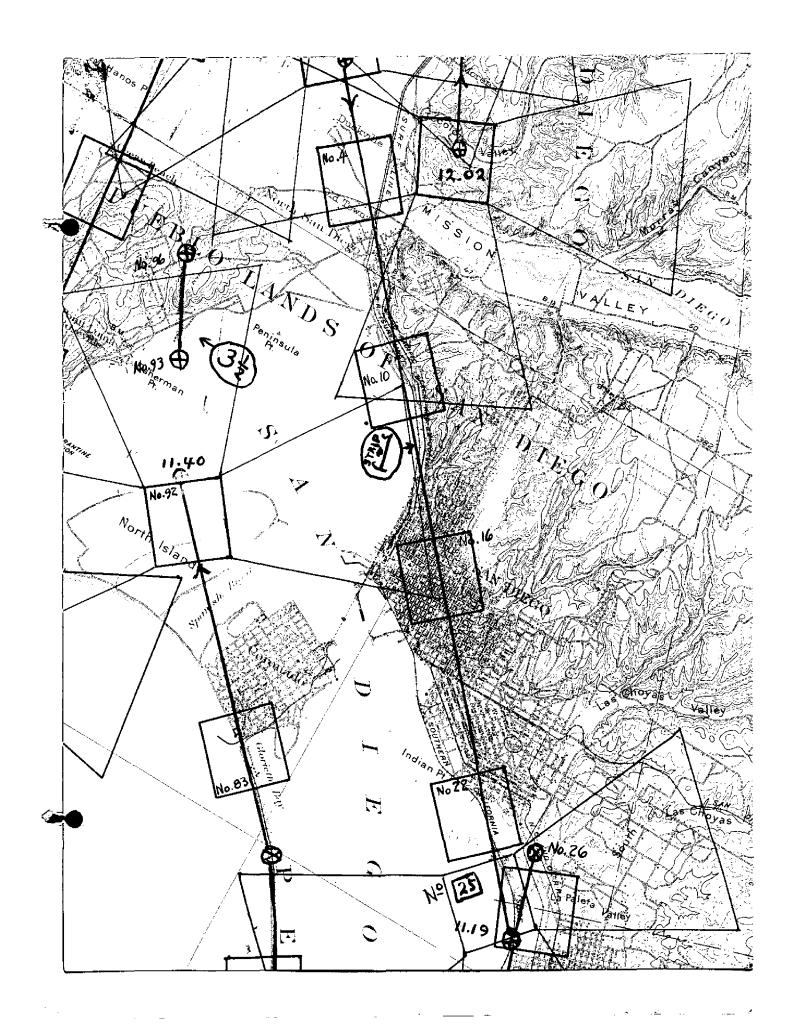
(continued)

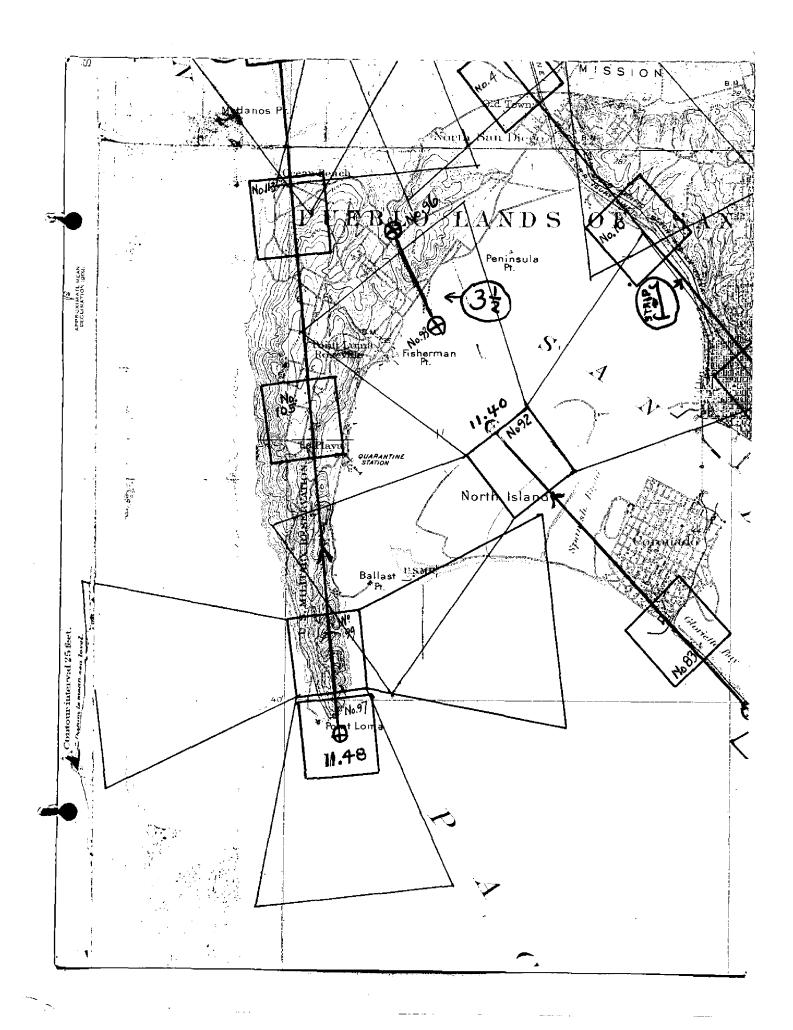
TALLEST OF TWIN BLACK
STACKS, AT& SF RY. 34180.7 south 23289.2 east
OIL DERRICK 1933 4196.0 north 9753.2 west
BAY POINT, 1887 10577.0 north 15554.3 west

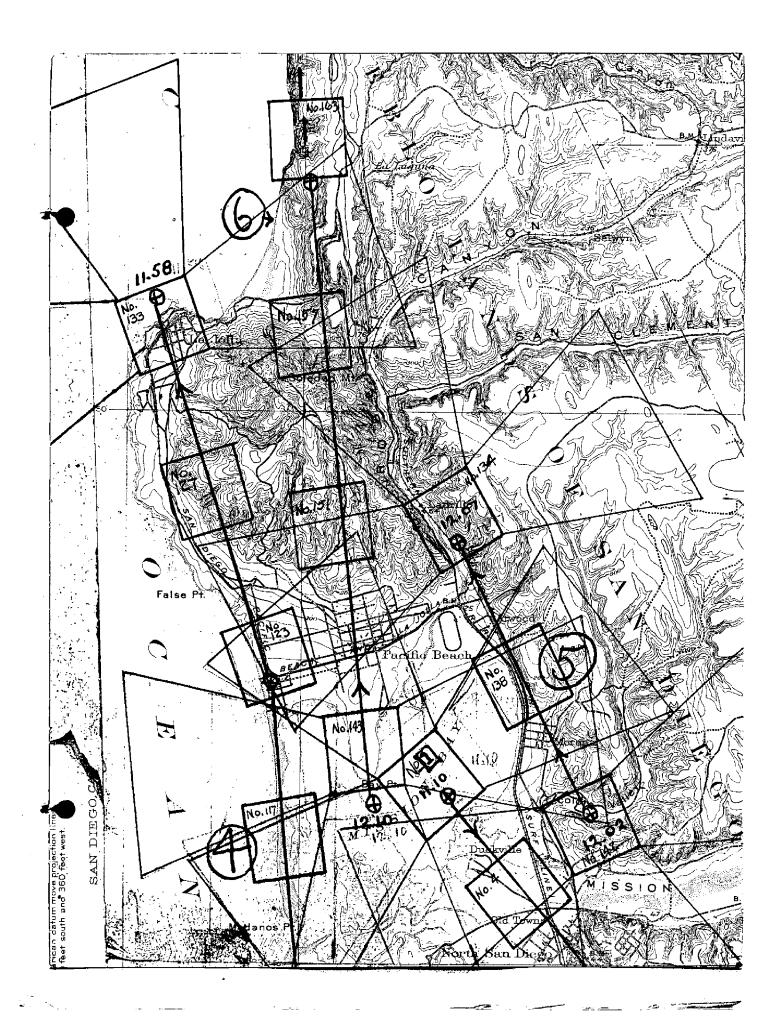
Co-ordinates of stations marked \* were supplied by U.S. Engineers Co-ordinates of other stations were computed in office from geographic positions determined by C.& G. Survey.











REPORT ON COMPILATION

PHOTO TOPOGRAPHIC SHEET T-5371

MEXICAN BOUNDARY TO CHULA VISTA

CALIFORNIA

SCALE 1:10,500

### STATISTICS

Area of Sheet: 26.2 square statute miles.

Length of Shoreline: 17.7 statute miles.

Length of Rivers and Sloughs: 7.6 statute miles.

### DESCRIPTION OF AREA

Boundary north to Chula Vista, and from the high water line eastward for about three and a half miles.

The topography in this locality is low surrounding San Diego Bay and in the Tia Juana River bottoms, but considerable relief is found elsewhere. The high table land south of the International Boundary extends over the line in places and break abruptly to the level of the Tia Juana River bed. That part of the mesa extending north of the boundary has an elevation of 300 to 400 feet.

The topography northward from the Tia Juana River rises gently toward the northeast until the Otay

River is encountered. Here the terrain breaks to the floor of the valley in steep bluffs.

Immediately north of the Otay Valley the drainage is into that valley, but a little farther north the drainage is into San Diego Bay to the west.

North of the Otay River the land is extensively cultivated. A large part of the area is given over to groves of orange, lemon, and avocado.

There is considerable cultivation in the valley of the Tia Juana River, but many former fields have been allowed to return to grass and are used for grazing purposes. The last flow of water in this river was in 1927, at which time several bridges were swept away. This probably accounts for the abandoning of these fields which were formerly cultivated.

The high land south of the Otay Valley and east of Palm City is covered with a scanty growth of desert vegetation.

There are many salt evaporation ponds at the head of San Diego Bay. These ponds are maintained by the Western Salt Co. They are built by dredging material from the bottom of the bay to form dykes. The shape and area of these ponds are changed occasionally.

The strip of land between San Diego Bay and the ocean consists of wind-blown sand dunes covered with

a scattering growth of vegetation, which shows clearly in the photographs. Marsh areas entend into the bay at various points along the east side of this strip.

### GENERAL INFORMATION

The area of this sheet is covered by photographs Nos. 37 to 74, inc. These photographs were secured December 22, 1933 between the hours of 11:19 and 11:35 A.M.

The tide at the time of these photographs was about 4 feet above M.L.L.W. This data was not used, however, in delineating the high water line, which was determined along the ocean beach by the deposit of debris, with due regard to that deposited by storm high water.

### CONTROL

was executed by Charles Pierce in 1933. This control was supplemented by the compilation party in 1934.

There is appended hereto a list of the triangulation stations and three-point fixes used in the compilation, showing the plotting distances used for the scale of the sheet -- 1:10,500.

In several cases the names of intersected stations as given by triangulation party have been shortened to facilitate showing them on the sheet.

### COMPILATION

The usual radial line method was used in the compilation of this sheet.

No adjustments were made in the radial plot as there was sufficient control to fix each photograph.

### INTERPRETATION OF PHOTOGRAPHS

Generally, most of the detail on the photographs was clear for charting purposes. There was some question about the charting of the bed of the Tia Juana River, but it was best to show it as a wash, after delineation was determined with the aid of the stereoscope.

No signs of a river bed were apparent in Otay Valley. A flood, caused by the breaking of a dam farther up the valley, probably washed out the river bed. There being do drainage since that time, no stream bed is apparent. In places the willows have been cleared to bare gravel pits..

A field inspection was made at high water to

determine the high water line and the limits of the marshes along the west side of San Diego Bay. After this inspection the high water line was easily determined.

Because of the lack of space it was impossible to show the ends of the two intermittent drainages just inshore of the salt works near the head of the bay. This drainage goes under the road through culverts and then between the road and the railroad to the drainage ditch as shown on the sheet.

The unimproved roads in Coronado Heights are lined on both sides with evergreen trees. This feature makes the locality quite prominent.

The limits of air landing fields as shown on this sheet are approximate only, being taken direct from the visible landing areas as shown on the photographs.

The buildings connected to these landing fields have been shown.

Ream Field and Border Field are air landing fields under lease by the U.S.Navy.

The salt pond to the west -- which is traversed by the San Diego and Arizona Eastern Railway -- is open to the flow of the tide in that an automatic gate allows the water to flow into the pond at high tide, and retains it as the tide falls.

This area is the first step in the process of evaporation, the other ponds being filled from this area. In the area of this pond there are several abandoned dykes shown by dotted lines.

The dotted area near triangulation station SILO TYPE STRUCTURE on Silver Strand encloses an area of hog pens. There is also an abandoned clay pit nearby. The houses in this area have been shown in detail as they may serve as landmarks, however they are all more or less of a temporary type structure.

In thickly settled localities only the larger buildings adjacent to the water area have been shown. In the less populated districts and districts of scanty population all of the buildings are shown where they will be useful to the mariner. The school buildings and post offices are also shown.

The low water line is shown on the ocean side of the beach. This determination is approximate only as it was taken from the photographs, however the line is believed well within the farthest offlying breakers.

No attempt was made to show the low water line in the shoal areas of San Diego Bay.

### INFORMATION FROM OTHER SOURCES

There are several topographic details that

have been constructed since the date of the photographs. This detail has been located on Topo Sheet Field No."A" by the topographic party and includes the new piece of dyke built by the Western Salt Co. in the salt ponds at the head of the bay. Also located on this sheet was the group of three buildings in Coronado Heights which are prominent because they are an isolated group.

Since the date of the photographs the State of California has begun construction of a highway which extends from a point on National Avenue, Chula Vista, about 130 meters north of the center line of Anita Street in a southerly and southeasterly direction to a junction with the state highway about one mile east of Nestor.

As this highway is now being graded, it has been shown on the sheet. It was plotted from drawings furnished by the Division of Highways, State of California. This transfer was checked by plotting the crossings of the existing roads and railroads, which were shown on the state drawings.

### COMPARISON WITH OTHER SURVEYS

The junction of this sheet with the sheet to the north -- Register No. T-5372 -- has been checked and found to show excellent agreement.

T-5371

Although the current topographic sheets of this area were on a different scale, the agreement was very good. The mouth of the Tia Juana River was charted differently, but this was probably due to it being of a changable nature. An extremely high tide forces water into the river bed, and the runoff causes the mouth of the river to change.

There are several docks shown on the present edition of Chart No. 5107, which includes a portion of this area, which should be expunged from future editions.

After a field inspection no remains were found of the small dock shown at Lat. 32 -- 36.8', Long. 117 - 07.9'. Evidences were found of the two docks shown at Lat. 32 - 37.9', Long. 117 - 06.4' and Lat. 32 - 37.4, Long. 117 - 07.8', but the sites were marked by a single pile or remaining bent, close inshore.

The abandoned dock shown at Lat. 32 - 38.0', Long. 117 - 06.5' is no longer maintained and is in a dilapidated condition.

### LANDMARKS

The list of landmarks has been submitted on Form No. 567 to cover the entire area of this sheet.

A duplicate copy is attached to this report.

The following landmarks should be deleted from future editions of Chart No. 5107

HOUSE Lat. 32 - 36.3' Long. 117 - 07.7'

ELEVATOR Lat. 32 - 36.2' Long. 117 - 05.6'

The landmark shown on chart as TOWER, in

Let. 32 - 37.9'and Long. 117 - 06.0' should be replaced by

WEST GABLE OF ABANDONED MILL BUILDING, whose position is

given in List of Landmarks, Form No. 567. This last

object is much more prominent than TOWER, although

TOWER is still in existence and in good condition.

RECOMMENDATIONS FOR FURTHER SURVEYS

This compilation is believed to have a probable error of less than 2 meters in positions of well defined detail of importance for charting purposes, and of 4 meters for other data.

To prove the compilation, several points were plotted from the U.S. Engineer list of rectangular co-ordinates after the grid had been placed on the sheet. These points checked the compilation within the above specified limits.

Further surveys are considered unnecessary in this area at this time.

### LETTERING

As far as possible, lettering was placed on the sheet from printed name lists furnished by the office. The

names of topographic features for which there were no names included have been shown on the cover name sheet. The names of three point fixes are also shown on the cover name sheet, and if a picture reference point from a set-up, it is so noted.

A line was drawn through a name on the cover name sheet when that name was attached to the celluloid. It is respectfully requested that names be provided and attached in the office for all names not so ruled out on the cover name sheet.

Respectfully submitted:

John C. Mathisson Jr. H.& G. Engr. U.S.C.& G. Survey

### REVIEW OF PHOTO TOPOGRAPHIC SURVEY NO. T-5371

Title (Par. 56) Mexican Boundary to Chula Vista, California Chief of Party Robert W. Knox Compiled by J.C. Mathisson Project No. 102 Instructions dated

- 1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 8; and 16, a, b, c, d, e, g and i.) Yes
- The character and scope of the compilation satisfy the instructions and the "Notes on the Compilation of Planimetric Line Maps from Five Lens Aerial Photographs".

  Except as noted in descriptive report
- 3. The control and adjustment of the radial plot were adequate.

  (Par. 12, 29.)

  Control adequate. No adjustment necessary
- 4. There is sufficient control on maps from other sources that were transmitted by the field party for their application to the charts. (Par. 28.)

Ho mass are transmitted with the sheet

- 5. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.)

  Yes
- 6. 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.) See page 17
  - 7. Important details shown on previous surveys and on the chart have been compared with this sheet and a statement has been entered in the report regarding the removal from the chart or change in position of important detail such as rocks, lights, beacons, prominent objects, bridges, docks, and structures along the water front.

    Yes 500 person 17 to 20 of the descriptive report
- 2. The span, draw and clearance of bridges are shown. (Par. 16c.)
  There are no bridges on this sheet
- 9. The data furnished by the Field Inspection is adequate.

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.

Note The John on 1524 culmilled with this compilation were docale for itations docated by theodolite 3 pt. hy portions. The computations were dater founded to the division of gooding and bled as trangulation. I he discuftions have been transferred to branquelolion files and a cross reference cond placed in the ble of Johngrafhie intotion disenfitions. I here intotions are whom on the compilation as lokographic ulations but the exymbols will be changed to D of the ment punting. The westerns are reported as above third order occuracy. Le pages 10 and 11 of the neport.

B.g. Jones

The descriptive report covers all details listed in the Manual, so far as they apply to this survey. (Par. 64, 65 and 66.)
Yes

The descriptive report also contains all additional information required in photo topography as prescribed in the instructions and in the "Notes on the Compilation of Planimetric Line Maps from Five Lens Aerial Photographs".

Yes

- The descriptions of recoverable stations and references to shore line were accomplished on Form 524, and scaling of positions checked. (Par. 29, 30 and 57.) Le office page 198
- 13. A list of landmarks for charts was furnished on Form 567 and scaling of positions checked. (Par. 16d, e, 60.) Secalso page 19900/20 of the desc. report.

  Yes
- 14. The geographic datum of the sheet is N.A.1927 Unodjusted and the reference station is correctly noted. (Par. 34.)
- 45. Junctions with contemporary surveys are adequate. Yes
- 26. Geographic names are shown on the sheet and are covered by the Descriptive Report. (Par. 64, 66k.)
  Yes
- 174 The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46.)
- 18. No additional surveying is recommended.
- 19. Remarks:

20. Examined and approved:

Lotet W. Knox

Chief of Party

21. Remarks after review in office: Review report attached

at back

Reviewed in office by: Bg. Jones

Examined and approved:

Chief, Section of Field Records

Chief, Division of Charts

Chief, Section of Field Work

Chief, Division of

Hydrography and Topography.

### REVIEW OF AIR PHOTO COMPILATION 5371 (1934)

Refer to paragraph 5, page 9, of the descriptive report: The geographic position of the U.S.E., grid origin as given by the compiler has been checked in this office.

The computations of the three point fix positions mentioned on page 10 of the report and described on Form 524 are filed in the section of air photo mapping.

The recent plane table surveys and hydrographic surveys of Knox in this area are not yet in the office. However, there should be no considerable discrepancies between those surveys and the compilations as both were done under one Chief of Party and Knox has made comparisons before sending the compilations to this office.

Names are in agreement with the chart except for the railroads. The names on this compilation for the railroads are more
detailed and complete. New names are shown which are not on the
present charts. See pages 7 to 9 of the report for maps and
sources of information. The report does not mention geographic
names specifically but from the amount of data used the compilation was evidently made carefully and was compared with the U.S.G.S.
maps and other surveys in this area.

This compilation shows changes along the waterfront as listed on pages 19 and 20 of the report and also considerable detail not shown on the present chart 5107.

This compilation also shows numerous changes and considerable additional detail as compared with topographic survey 3644 (1916-17). The important changes are included in the discussion of changes on the chart, pages 19 and 20 of the descriptive report.

The 1916-17 survey shows a number of marked topographic stations, and also, along the east side of the bay, several city monuments (evidently city survey marks) which have not been recovered and shown on this compilation nor mentioned in the report. Otherwise all detail of importance on the 1916-17 survey is either shown on this compilation or discussed in the report.

B. g. gones

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### Additional Review Note Added March 3,1986

### Comparison with Graphic Control Surveys

This compilation was reviewed and completed prior to the receipt in this office of the Graphic Control Surveys:

T-62272 (1:10,000)(1934)

Comparison has been made at this date and all detail shown on the graphic control surveys in this area appears on this compilation and is in agreement.

Ralph M. Berry 139. Jones

TRIANGULATION STATION	POSITION	DMs & D	Ps METERS		DISTANCE 1;10,500
Bay	Lat. 32° - 36'	577.6	(1270.6)	550.1	(1210.0)
	Long.117° - 07'	878.0	(686.4)	836.2	( 653.7)
Dune 2	Lat. 32° - 36'	1539 <b>.</b> 6	( 308.6)	기사가•6	( 294.0)
	Long.117° - 07'	1516.9	( 47.4)	기사66•5	( 45.2)
B <b>aja</b>	Lat. 32° - 32°	913 <b>.</b> 5	( 934.8)	869 <b>.</b>	( 890 <b>.1</b> )
	Long.117° - 05°	1258 <b>.</b> 2	( 307.4)	1198 <b>.</b> 3	( 292 <b>.</b> 8)
Waste	Lat. 32° = 33¹	1129±0	( 719•2)	1075°5	( 685.0)
	Long.117° = 07¹	1306±4	( 258•9)	19孙3	( 246.5)
Boundary Monument	Lat. 32° - 32'	116.2	(1732 <b>.</b> 0)	110.6	(1649.6)
No. 258	Long.117° - 07'	492.8	(1073.0)	469.2	(1021.9)
Basin	Lat: 32° = 35°	777•5	(1070.8)	740ф	(1019:8)
	Long:117° - 06°	1328•7	(236.1)	1265•3	(224:9)
Fruit	Lat. 32° - 36'	616 <b>.</b> 8	(1231.5)	587•3	(1172:8)
	Long.117° - 05'	589 <del>Ա</del>	(975.0)	561•3	( 928.5)
Palm	Lat: 32° - 35¹	33.€2	(1815.0)	31.€6	(1728.5)
	Long:117° - 04¹	729.€3	( 835.5)	694.€6	(795.7)
South Pylon	Lat. 32° - 37°	1524.8	( 323 41)	1452 2	( 307 <b>.</b> 9)
	Long.117° - 07°	1254.6	( 309•5)	1194 9	( 294 <b>.7</b> )
Silo Type Structure	Lat: 32° - 37' Long:117° - 07'	789•8 1489•3	(10584) (748)	7 \$52.2 1418.4	(1008 <sub>•</sub> 0) (71 <sub>•</sub> 3)
White Tipped Black Stack	Lat. 32° - 37' Long.117° - 05'	1694.57 1514.6	( 153.5) ( 49.4)	1614.0 <del>1614.0</del> 1442.5	( 146:1) ( 47:0)
Red Stack	Lat. 32° - 361°	693.7	(1154.5)	660.6	(1099•5)
	Long.117° - 041	1491.0	(73.4)	1419.9	( 69•9)
White Shed on	Lat. 32° - 36'	180 <b>:</b> 9	(1667•3)	172 <b>-</b> 2	(1587,9)
Salt Works	Long 117° - 05'	8կ0 <b>.</b> 0	(724•5)	800-0	(690.0)
Oil Derrick north	Lat. 32° - 35' Long.117° - 04'	302 0	(1546-2)	287.6	(山72-6)
Palm City		1354 7	(210-1)	1290.2	(200-1)
Richfield Tower	Lat. 32° = 34°	1538.5	( 309•7)	1465•3	( 294.9)
	Long.117° = 05°	4.9	(1560•0)	4•6	(1485.7)
West': Radio Tower	Lat. 32° - 34°	1601 <b>.</b> 2	( 임년·7)	1524.9	( 235•3
On Hangar	Long.117° - 03°	1320 <b>.</b> 2		1257.3	( 233•1)

### TABLE OF CONTROL (continued)

TRIANGULATION STATION	POSITION	DMs & DPs METERS	PLOTTED DISTANCE SCALE 1:10,500			
East. Radio Tower	Lat. 32° - 34:	1600 il. (247 i8)	1524.52 (236.1)			
On Hangar	Long. 117° - 03:	1295 ig (269 i0)	1234.6 (256.2)			
Wind Indicator, Union	Lat. 32° - 37°	955.6 ( 892.6)	910 ( 850 1)			
Oil Co. Plant	Long. 117° - 05°	1019.1 ( 545.0)	970 6 ( 519 1)			
North Radio Tower	Lat. 32° - 35°	1368 2 (1437.7)	390.9 (1369.3)			
U°S°Nevy	Long. 117° - 07°		1303.0 (187.2)			
South Radio Tower	Lat. 32° - 35°	326.5 (1521.7)	310章 (1449章2)			
U.S.Navy	Long. 117° - 07°	1351.6 (213.2)	1287章2 (203章0)			
White Silo	Lat: 32° - 33'	1725-1 (123-1)	1643.0 (117.1)			
	Long. 117° - 05'	620-9 (944-3)	591.2 (899.3)			
Flag Pole On Barn	Lat. 32° - 32°	799.7 (1048.5)	761.7 (998.6)			
	Long. 117° - 06°	607.2 (958.5)	578.3 (912.8)			
Boundary Monument	Lat. 32" - 32"	294.7 (1553.5)	280 7 (1479 5)			
No. 257	Long. 117° - 06	299.9 (1265.7)	285 6 (1205 4)			
USS Navy Monument	Lat. 32° - 36'	1532 ( 315 9)	14594 (300-8)			
	Long. 117° - 07'	1513 2 ( 51 1)	1441-1 (48-6)			
Radio	Lat. 32° - 35¹ Long. 117° - 07⁵	1373.7 (191.1)	391 1 (13:69 0) 1308 3 (182 0)			
TRIANGULATION BY COMPILATION PARTY, 1934						
NEW DERRICK	Lat. 32° ~ 33°	965•1 (883•0)	919•1 (8/1•0)			
	Long. 117° ~ 06°	630•6 (934•8)	600•6 (890•3)			

# TABLE OF CONTROL (continued)

# THREE POINT FIXES BY COMPILATION PARTY 1934

STATION	POSITION	DMs & DPs METERS	PLOTTED DISTANCE SCALE 1:10,500
Tia, R.M.	Lat. 32° = 321	9324 (9158)	86 <b>00</b> (872 <b>5</b> 0)
	Long.117° = 031	10954 (4703)	1043 <b>5</b> (447 <b>5</b> 9)
TORPÉDO RANGE	Lat. 32° - 37!	506 7 (1341 5)	482.6 (1277.6)
BEACON, 1000yd	Long.117° - 08!	108 9 (1455 4)	103.7 (1386.1)
TORPED RANGE	Lat. 32° - 36'	1424.7 (423.5)	1356.8 (403.3)
BEACON 2000 yd	Long.117° - 07'	1556.0 (8.3)	1481.9 (7.9)
TORPEDO RANGE	Lat. 32° - 36'	488 5 (1359 7)	465-2 (1294-9)
BEACON 3000 yd	Long.117° - 07'	1356 5 (208 1)	1291-9 (199-0)
torpedo range	Lat. 32° - 35'	1417-1 (431-1)	1349.6 (410.6)
beacon 4,000 ya	Long.117° - 07'	1339-2 (225-4)	1275.4 (214.7)
TORPEDO RANGE	Lat. 32° - 34°	1435 6 (412 6)	1367.2 ( 392.9)
BEACON 6000 yd	Long.117° - 07°	1419 5 (145 4)	1351.9 ( 138.5)
TOX-PEDO RANGE	Lat: 32° - 33'	1440.0 (408.2)	1371.4 ( 388.8)
BEACON 8000 yd	Long:117° - 07'	1347.7 (217.5)	1283.5 ( 207.1)
TORPEDO RANGE	Lat. 32° - 32'	1394-4 ( 453-8)	1328 to (432 t2)
BEACON 10,000 yd	Long.117° - 07'	723-6 ( 841-8)	689 to (801 t7)
TORPEDO RANGE	Lat: 32° - 32°	302:1 (1546:1)	287.7 (1472.5)
BEACON 12,000 yd	Long:117° - 07°	433:5 (1132:2)	412.9 (1078.3)
CROSSROADS	Lat. 32° = 33' Long.117° = 07'	1162•5 ( 685•8) 719•7 ( 845•6)	1107-1 (653-1)
BAY, R°M.	Lat. 32° - 36'	597.6 (1250.6)	569 2 (1191 9)
	Long.117° - 07'	964.5 (600.1)	918 5 (571 5)
STATE PARK MON. No. 5	Late 32° - 37°	1457 9 (390 3)	1388 5 (371 7)
	Long 117° - 08°	483 1 (1081 0)	460 1 (1029 5)
CONCRETE FLOOR	Lat. 32° - 36°	579•7 (1268•5)	552 <b>.</b> 1 (1208 <b>.</b> 1)
	Long.117° - 05°	458•1 (1106•4)	436 <b>.</b> 3 (1053 <b>.</b> 7)
Center Line	Lat. 32° - 34°	147.2 (1701.0)	140.2 (1618.0)
Railroad	Long.117° - 03°	1290.9 (274.3)	1229.5 (261.3)
HIGH, CORNER	Lat. 32° - 371	43.7 (1804.4)	11.6 (1718.5)
	Long. 117° - 041	276.8 (1287.5)	263.6 (1226.2)

GEOGRAPHIC	<b>NAMES</b>
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Survey No	T 5371
Chart No	5102-5101-07
Diagram No	5102

Approved by the Division of Geographic Names, Department of Interior.	*
Referred to the Division of Geographic Names, Department of Interior.	R
Under investigation. Q	



Date.\_\_\_\_

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
	Silver Strand State				
	Chula Vista				•
	Rancho de la Nacion				
	San Diego	<u>.                                    </u>			
	Coronado Heights				
	Otay River				
	Otay Valley				
	Imperial seach				
	south san Diego		,		
	Palm City	·			
	Nestor				
	Oneonta				····
	ia Juana River				
	San Diego & Arizona	mastern Kailway	(not Railroad		1
	,			1	
	1	APPROVED NAMES UNDERLINED IN RED H.L.F.			
		٠,			- (