

4513

Form 504

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. PATTON, Director

C. & G. SURV

L &

APR 14 1930

Acc. No.

State: California

DESCRIPTIVE REPORT

Topographic

~~Hydrographic~~

Sheet No. I 4513

LOCALITY

Northern California

Arcata Bay

Humboldt County

1929

CHIEF OF PARTY

A. P. Ratti, H. & G. Engr.

GOVERNMENT PRINTING OFFICE

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4513

## TOPOGRAPHIC TITLE SHEET

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 I

REGISTER NO.

4513

State CaliforniaGeneral locality Northern California North of Cape MendocinoLocality Arcata Bay, Humboldt CountyScale 1:10,000 Date of survey October 15- Nov. 30 1929Vessel Party of A. P. Ratti, Project No. 34Chief of Party A. P. RattiSurveyed by George R. SheltonInked by George R. SheltonHeights in feet above H. W. to ground ~~to tops of trees~~Contour Approximate contour Form line interval        feetInstructions dated April 27, 19 29Remarks:

DESCRIPTIVE REPORT  
TO  
ACCOMPANY TOPOGRAPHIC SHEET I ARCATA BAY

A. P. Ratti, Chief of Party Project No. 34

INSTRUCTIONS:

This survey was made under the Director's Instructions dated April 27, 1929.

EXTENT:

This sheet comprises a revision survey of the north end of Humboldt Bay known as Arcata Bay. This sheet is joined on the South and West by topographic sheet F.

SURVEY METHODS:

THE shore line and features were located by the usual plane table survey methods. No trouble was experienced in keeping within the allowable error in the traverses run. Adjustments were made in accordance with the instructions in the topographic manual.

DESCRIPTION:

The area on the west side of the bay consists of sand dunes sparsely covered with grass and trees. Beginning just South of Mad River Slough and continuing around the north end of the bay to Eureka Slough on the east side the area consists of grass land used for pasture land by dairy farmers for the most part. This area was shown on sheet T1176 as marsh land but has been reclaimed since date of survey by dykes. The area shown as marsh land on this sheet covers at extreme high water.

COMPARISON WITH SHEET T1176:

The beacons shown on this sheet were not shown on sheet T1176. The positions of the beacons were determined by cuts from triangulation stations and plane table positions. The small islet at triangulation station Bird, bearing one foot at high water, has been formed by deposits of sand since the date of the last survey. Arcata Wharf has been extended approximately  $\frac{3}{4}$  mi. The changes in the shore line of this area are due to the construction of the dykes.

STATISTICS:

Statute miles of shore line -----	19.0
" " " highway -----	15.0
" " " railroad -----	19.1
" " " sloughs -----	20.4
Area in sq. stat. mi. -----	922.2

Respectfully submitted,

*George R. Shelton*

Jr. H. & G. Engr.

*Approved Augustus P. Ratti*

Chief of Party

# PLANE TABLE POSITIONS

Object and description	Latitude		D. M.	Longitude		D. M.	Remarks
	o	'		o	'		
Beacon No. 8 Square	40	49	380	124	10	262	
Beacon Striped Horz.	40	48	825	124	10	136	
Beacon F 5 Lighted	40	49	1125	124	08	1305	
Beacon No.10 Square	40	49	1050	124	08	726	
Beacon No.7 "	40	49	1644	124	08	390	
Beacon Cross	40	50	79	124	07	1272	
Beacon No.12 Square	40	49	1771	124	07	1106	
Beacon Lighted	40	50	617	124	07	300	
Beacon "	40	50	1057	124	07	93	
Tank Large black	40	50	1337	124	06	1057	
Tank Small "	40	50	1318	124	06	1188	