

4617

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DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. A. PATTON *Director*

State: Texas

DESCRIPTIVE REPORT

Topographic
Hydrographic

Sheet No. **E 4617**

LOCALITY

Houston Ship Channel

Vicinity of Peggy Lake and

Scott Bay

1930-31

~~XXXX~~

CHIEF OF PARTY

John A. Bond, H. and G. E.

GOVERNMENT PRINTING OFFICE

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
R. S. PATTON, DIRECTOR

Project No. 68
1930-31

Descriptive Report
to
Accompany

TOPOGRAPHIC SHEET E

of

HOUSTON SHIP CHANNEL AND VICINITY

TEXAS

John A. Bond, H. and G. E., U. S. C. and G. S.
Chief of Party

Descriptive Report to Accompany Topographic Sheet E

Houston Ship Channel, Texas

INSTRUCTIONS.

The topography on sheet E is a part of Project No. 68, the instructions for which were dated July 24th, 1930.

LIMIT AND SCALE.

Surveyed on a scale of 1/5000, the sheet covers the shore line of Scott Bay and Peggy Lake with a portion of the adjacent Houston Ship Channel. The sheet joins sheet D on the southeast and sheet F on the northwest.

CONTROL AND SURVEY METHODS.

Usual plane table survey methods were employed. Positions were obtained mainly from three point fixes with a small amount of graphic triangulation in Scott Bay and Peggy Lake. One plane table station was established south of Peggy Lake by traverse to delineate the twenty foot contour.

A series of air photos of the Houston Ship Channel will be forwarded under separate cover, and should prove useful in supplying interior detail which could not be economically covered by plane table methods. The area included on this sheet is covered by photos Nos. 30 to 33.

In most cases the low water line shown on the sheet has been drawn from information obtained during the hydrographic survey.

All elevations on this sheet are known to be ^{0.5 ft. high} ~~6/10 feet low~~, none of them has been corrected. See explanation[✓] in Descriptive Report, Sheet A. (T4613)

(and memo of Feb. 28, 1934 from Dir. of T. & C.)

At a few places where there was a good agreement with the U.S. G.S. survey of 1915 small sections of the 20 ft. contour were drawn on the sheet without the usual survey methods.

GENERAL DESCRIPTION OF TOPOGRAPHIC FEATURES.

To the east and north of Scotts Bay is a steep 25 to 30 ft. bank closely paralleling the shore line. The bank is only partially tree covered and has several gullies leading inshore. The shore line of Goat Island and the western part of Scott Bay is low with many small reaches of marsh and mud flats.

The land areas adjacent to the ship channel are used as dumping grounds for dredge spoil. They are composed of a series of bare clay and sand dumps averaging 15 feet in elevation and are surrounded by low flats covered with a 5 foot growth locally known as "coffee bean". This growth is perennial in nature.

The U.S.E. base line extends along the channel side of Barnes Island and the narrow arm of land to the north of Peggy Lake. The base line is marked by bronze discs set in concrete every 500 feet with intermediate 100 ft. stations marked by a wooden stake.

COMPARISON WITH PREVIOUS SURVEYS.

The shore line and land areas immediately adjacent to the ship channel are constantly undergoing changes due to the nearly continuous dredging operations.

A small pond in the marsh area of Barnes Island was not previously shown.

A field comparison with the U.S.G.S. survey of 1915 was made. In general a poor agreement of both shore line and the 20 ft. contour was noted.

All buoys shown on this sheet have been accurately located and there are no buoys in place in the area surveyed which are not shown.

The lower portion of what is charted as San Jacinto River, from Lynchburg to Morgan Point, is known locally as Houston Ship Channel.

NEW NAMES.

All names shown on the sheet have been taken from chart 532.

LANDMARKS.

A list of landmarks for charts which contains the positions of prominent objects and all beacons and ranges will be forwarded under separate cover.

Respectfully submitted.

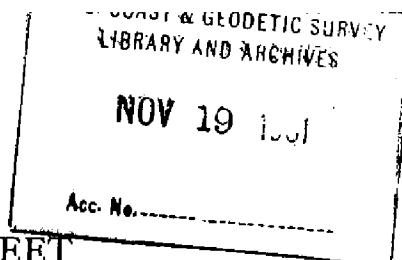
Washington, D.C.,
November 12, 1931.

Edmund L. Jones
Edmund L. Jones
Aid, U.S.C. and G.S.

Approved:

John A. Bond
John A. Bond, H. and G. E.,
Chief of Party, U.S.C. and G.S.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY



REG. NO. 4617

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 No. _____ E _____

REGISTER NO. 4617

State _____ Texas _____

General locality _____ Houston Ship Channel _____

Locality _____ Vicinity of Peggy Lake and Scott Bay _____

Scale 1/5000 Date of survey February, 1931, 19____

Vessel _____

Chief of Party _____ John A. Bond _____

Surveyed by _____ Edmund L. Jones _____

Inked by _____ E. L. Jones, H. W. Murray _____

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

Contour, Approximate, contour, Form line interval 20 feet

Instructions dated July 24, 1930, 19____

Remarks: _____