

4860

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

SEP 14 1934

Acc. No. _____

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| Form 501 Rev. Dec. 1933 | |
| DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY R. S. PATTON, DIRECTOR | |
| DESCRIPTIVE REPORT | |
| Topographic Hydrographic | Sheet No. <u>C 4860</u> |
| | |
| State <u>Texas</u> | |
| LOCALITY | |
| <u>Upper Galveston Bay</u> | |
| <u>Bay Front to Moses Bayou</u> | |
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| CHIEF OF PARTY | |
| <u>Earl O. Heaton</u> | |

U. S. GOVERNMENT PRINTING OFFICE: 1934

4860

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

SEP 13 1934

Acc. No. _____

4860

The Topographic Sheet should be accompanied by this form,
filled in as completely as possible, when the sheet is for-
warded to the Office.

Field No. C

REGISTER NO. 4860

State Texas

General locality Upper Galveston Bay

Locality Bay Front to Moses Bayou

Scale 1:20,000 Date of survey Feb. to July, 1933

~~Survey~~ Project: HT-118

Chief of party Earl O. Heaton

Surveyed by W. C. Russell and C. W. O'Melveny

Inked by W. C. Russell and C. W. O'Melveny

Heights in feet above M.H.W. to ground to ~~tops of trees~~

Contour, Approximate contour, Form line interval _____ feet

Instructions dated November 5, 1932

Remarks: _____

DESCRIPTIVE REPORT
TO ACCOMPANY TOPOGRAPHIC SHEET "C"
BAY FRONT TO MOSES BAYOU
Scale: 1:20,000

Project: HT-118, Galveston Bay
Surveyed February to July, 1933

E. O. Heaton, H. & G. Engineer, Chief of Party
W. C. Russell, Aid & C. W. O'Melveny, Surveyor, Topographers
Instructions Dated Nov. 5, 1932

General Description of the Coast:

Along the bayshore from Bay Front to Moses Bayou the country is a flat coastal plain unmarked by any natural features of especial prominence. A bluff averaging 12 ft. in height runs from Bay Front to Edwards Point (Edwards Point is also locally known as Eagle Point). At Red Bluff and at Clifton-by-the-Sea the bluff becomes more nearly 20 ft. and 18 ft. respectively. The bluff slopes from about 12 ft. at Edwards Point to 6 ft. at April Fool Pt. From April Fool Point to Moses Bayou it ranges from 2 to 6 ft. in height. From triangulation station Red Bluff to station Sales there is a strip of marsh between the shore line and bluff about 300 m. wide at the north end and gradually narrowing until shore line and bluff line are very close together at station Sales. At Bay Front there is a marsh averaging about 100 m. in width. With these exceptions and until one arrives at Dickinson Bayou there is no marsh on the bayshore; the country is a high, flat, grassy, plain.

A large grove of oak trees extends in a belt along the edge of the bluff from Red Bluff to a point about one mile south and then westward about $\frac{1}{4}$ mile. From the Houston Yacht Club north to Bay Front are scattered oak trees. West of the yacht club about $\frac{1}{2}$ mile, a large grove of pine trees is found, about 50 ft. high, extending 2 miles north and visible from the bay.

The entire coast line from Bay Front to San Leon is studded with real estate developments which present a fair system of highways along the coast between the two places.

The mouth of Clear Creek is at Seabrook. This creek forms the entrance to Clear Lake - a shallow body of water of no navigational importance. Roughly crescent shaped, the lake lies in a basin about 2 miles long. The north side of the lake is a gentle slope running to an average height of 12 ft. The line of the slope from the Galveston Bay shore swings west at Seabrook to join with the top of the slope on the north of Clear Lake. The south shore of Clear Lake is entirely wooded bluff averaging 8 to 12 ft. with trees about 20 to 40 ft. high. The north shore is wooded for about one half mile west of the east shore of the lake.

All of the north shore has been developed into well kept country estates. A highway runs along the north shore and is a part of the road from Seabrook to the town of Dickinson. On the south shore no road exists paralleling the shore as on the north side. Real estate developments have been started, but not completed.

At the west end of the lake the creek bottom becomes ^{a marsh.} A marsh of considerable extent also marks the east end of Clear Lake on the north bank of Clear Creek. At the east end of the lake the south bank of Clear Creek rises to a bluff about 20 ft. high. Just east of this bluff about a quarter-mile, the creek is spanned by two drawbridges, highway and railroad. There is a shipyard for small boats just west of the bridges on the south bank of this creek.

Approaching from the south in the channel, the most pronounced feature visible ahead will be Red Bluff because of its height and the line of trees off-setting the grassy plain to the southward. Another prominent landmark

visible from the channel is the mansion of former Governor Sterling of Bayridge. This is an unusually large two story white house and it is located about one mile west of Morgans Pt. This house does not appear on this sheet the limits of which fall short of it by about a half-mile.

Landmarks:

Some of the more prominent objects are as follows - listed as though approaching from the south:

TANK (elevated) - Edwards Point.

TANK, elevated, (OHigh) - an elevated water tank at Clifton-by-the-Sea.

TANK, elevated, white concrete, (OCon) - an elevated water tank about one mile south of Red Bluff.

BUILDING - clubhouse of the Houston Yacht Club.

STACK, white concrete, (ASmokestack of St. Mary's Seminary at Sylvan Beach)

TANK, SHOREACRES, elevated, black, metal - water tank at Shoreacres

TANK, elevated, steel, (OSchool) - an elevated water tank at the Harris County reform school.

TANK, elevated, steel, (AWest) - an elevated water tank on the west side of the lake.

Control:

The control for this work consists of stations located by second and third order triangulation and supplemental stations located by plane-table traverse and plane-table triangulation.

The spoil dumps along the Houston Ship Channel were located by three point fixes, and distance ties made to nearby beacons

Traverse Closure and Methods of Adjustment:

| | Closure Error (meters) | Distance (stat. miles) |
|--|---------------------------|---------------------------|
| Neal to Sylvan | 4 | 1.9 |
| Sylvan to Club | 7 | 2.8 |
| Club to Red Bluff | 9 | 1.5 |
| Red Bluff to Sales | 12 | 2.4 |
| Sales to Hanson | 9 | 3.3 |
| Sales to Peden | 12 | 3.2 |
| Peden to West | 3 | 2.1 |
| West to Hanson (S. side of Clear Lake) | 8 | 5.9 |
| Hanson to Clifton | 6 | 3.0 |
| Clifton to Eagle Point | 18 | 4.0 |
| Eagle Point to San Leon | 16 | 3.4 |
| San Leon to Dickenson | 16 | 2.8 |
| San Leon to Fool | 6 | 2.3 |
| Fool to Moses | 7 | 3.7 |

All traverses were adjusted as prescribed in Special Publication #144.

List of Plane-table Positions:

Peak - south gable, small one-story bungalow.

Chim - center line of chimney on white stucco house.

Mill @ windmill, 60 ft. high.

Play - S.E. cor., red-roofed sun-house.

Roof - N.E. cor., white house with green roof.

Yel - N.E. corner, brick house, cream covered front porch.

Green - SE cor., white house, green blinds.

Wat - W. T. and W.M. 45 ft. high.

Con - W.T. 60 ft. high, 10 ft. diameter.

Water - W.T. 20 ft. high.
 Tank - W.T. 20 ft. high.
 Tar - W.T. 20 ft. high.
 Tom - S.E. cor., yellow house, green trim.
 House - S.E. cor., brown house.
 Whit - W.T. 25 ft. high.
 Alpha - W.T. 30 ft. high.
 Mast - weather bureau mast, 40 ft. high.
 Log - flagpole, 40 ft. high.
 Post - conc. post on seawall, 6 ft. high.
 School - W.T., 75 ft. high.
 Pole - flagpole, 35 ft. high.
 Base - Flagpole, 20 ft. high, white base.
 Tel - Telephone pole, 40 ft. high.
 Hale - High tension pole, 60 ft. high.
 Clay - " " " " " "
 Bath - NE cor., yellow bath house.
 Sky - windmill, 25 ft. high.
 New - W.T. 25 ft. high.
 Rex - W.T. 35 ft. high.
 Square - NE cor., 2 story house, green roof.
 High - W.T. 40 ft. high.
 Ton - Peak of roof, yellow house.
 Flag - W.T. 15 ft. high. (On Hydro. Sht. 22)
 Low - NE cor., bungalow, red roof.
 San - W.M. 18 ft. high.
 Pet}-
 Top)- W.T. 15 ft. high on top of white garage.
 W.T. 30 ft. high (Edwards Point)
 Store - NE cor. Horton's store.
 Mae - W.T. 15 ft. high.
 West - W.T. 25 ft. high.
 Doll - S.E. cor. unpntd. house.
 Dig - Flagpole, 28 ft. high.
 Joke - Windmill, 18 ft. high.
 Red - Red brick, chimney in center of 2 story gray house.
 Flag - Flagpole, 15 ft. high. (On Hydro. Sht. 23)
 House - S.E. cor, unpainted house.
 Mark - Iron pipe channel marker, 6 ft. high.
 Use - 12 x 12 post 10 ft. high marked U.S.E. 0+00.

Changes in Coast Line:

In comparing this topographic sheet with chart #1282, corrected to July 1934, from field inspection and local information, there is evidence of erosion all along the shore line except in a few places around Sylvan Beach and Clear Lake, where retaining walls have been built and backfilled. From chart and topographic comparison the greatest evidence of erosion is between Red Bluff and Edwards Point. From a point about $\frac{3}{4}$ mile S of Seabrook to Edwards Pt. and around Red Bluff, the bluff is practically vertical and high water meets the bottom of the bluff. This shore line is subject to fairly rapid erosion, due to wave and storm action. The different control datums in the two surveys render it difficult to ascertain how much of the change in shore line is due to erosion.

Taylor Bayou as shown on the chart between Sylvan Beach and Red Bluff no longer empties into Galveston Bay. It begins about $\frac{1}{2}$ mile from the shore and extends in a south-westerly direction as shown on the chart.

The bayou whose chart location is just north of topographic station Peak ~~is~~ no longer in existence.

Due to present dredging operations along the Houston Ship Channel changes in spoil dumps have been made. A new spoil dump is shown east of Redfish Bar Cut Lt. The ~~dash~~ line on the northwest side of the spoil dump west of Redfish Bar Cut Lt. is the probable location of shore line of the spoil dump. Dredging operations were not complete in this area at the time the topography was executed in January 1934.

The spoil dumps as shown on the topographic sheet below beacon 22 will probably change in outline due to present dredging operations.

The peninsulas ~~are~~ shown at Seabrook, Miller Pt., and April ~~Foot~~ Pt. are now cut off by water and islands formed.

The spoil dumps on both sides of the Seabrook Channel are not shown on the present chart.

At the Houston Yacht Club a yacht basin has been formed by a wooden bulkhead on the north and spoil dump on the south.

Character of Marshes:

The marsh areas on this sheet are covered with low marsh vegetation. The areas delineated as marsh at Morgans Pt., between Red Bluff and Seabrook and around Clear Lake are about 50% covered with water when the tide is one foot above mean high water. The marsh areas around Dickinson Bayou and Moses Bayou are covered with water at ordinary high tide.

Proposed Deletions from Present Chart:

See accompanying chart section for deletions to be made.

Junctions with Other Surveys:

A good junction of spoil dumps along the Houston Ship Channel could not be made, with the survey of J. A. Bond, 1930. From local information received, dredging operations have been carried on in the vicinity of beacon #24, causing the discrepancy that exists between the two surveys.

A junction at Bayridge on the bay shore was made with the 1930 survey. There is about a 10 m. discrepancy in most cases in comparing shore line and road. The 1930 survey is apparently too far west at the junction. This discrepancy might be due to lack of control at the edge of the 1930 sheet.

Two words. 7 live words ? 4 S.S.

Well Established Local Names:

→ Shoreacres, a land development, between Oaks and Red Bluff on the bay-shore, is a well established local name and it is recommended that it be added to the chart.

Clifton-by-the-Sea, a land development, about 1 mile east-southeast of Bayview on the bay shore is a well established local name and it is recommended that it be added to the chart.

Edwards Pt. is sometimes locally referred to as Eagle Pt. due to the fact that a tourist camp on the bayshore at Edwards Pt. is called Eagle Pt. Tourist Camp (named after Congressman Eagle who is trying to have this name adopted).

Kemah is a small settlement on the bay shore just south of Seabrook. Clear Lake is the dividing line between Seabrook and Kemah. This settlement has a Post Office called Kemah. The name is well established and is recommended to be put of the chart.

Bayview is a land development just north of Clifton-by-the-Sea. The name is well established locally, and it is recommended that it be added to the chart.

Bay Front is a land development on the bay shore, and it lies in an area which begins about 200 m. SW of triangulation station Neal and extends toward the property of St Mary's Seminary. The name is well established locally, and it is recommended that it be added to the chart.

Dickinson Bay is that body of water between topographic station Usa. E. and April Fool Pt. The name is well established locally and appears on the U.S.G.S. sheet of this area. It is recommended that it be added to the chart.

Channels:

On this sheet the Houston Ship Channel extends from below Redfish Bar Cut - marked by an occulting, red, automatic light in the old light-house structure - to and beyond the northern limits of the sheet. This ship channel is well marked by beacons not shown on this sheet, but which were located by triangulation in 1932-1933. The spoil dumps shown at Redfish Bar Cut were surveyed in January 1934 while dredging by the U. S. Engineers was being done. The remainder of the channel shown on this sheet up to Beacon 22 is being widened by the U. S. Engineers at the date of this report, and will be subject to change by reason of newly-formed dumps on the east side of the channel. All beacons west of the channel between Redfish Bar Cut light and Beacon #22 will be removed in the near future due to present dredging operations.

The beacons along Clear Lake Channel consist of 4" x 4" posts about 3½' above M.H.W. with a white cross day marker. They should not be construed as permanent aids to navigation, although they mark the main channel through Clear Lake. Other channels in Clear Lake are privately maintained and are of no appreciable depth or importance.

Dickinson Bayou Bn. #1 which is described on hydrographic sheet #23 marks the entrance of Dickinson Bayou Channel, the turn of which is marked by a 12" x 12" post 10' high (Use). These two markers are of a permanent nature and are distinct aids to navigation, and it is recommended that they should be charted.

Dates on Triangulation Stations:

Two dates are shown on this sheet at triangulation stations which have been recovered. The date of original establishment is shown in parenthesis and the last date of occupation is also shown. This was done because the datum was changed in 1927. The last is the one which represents the plotted position.

Approved:

Earl O. Heaton
Earl O. Heaton,
Chief of Party, C. & G. S.

Respectfully submitted,

C. W. O'Melveny
C. W. O'Melveny,
Surveyor

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39 and 590

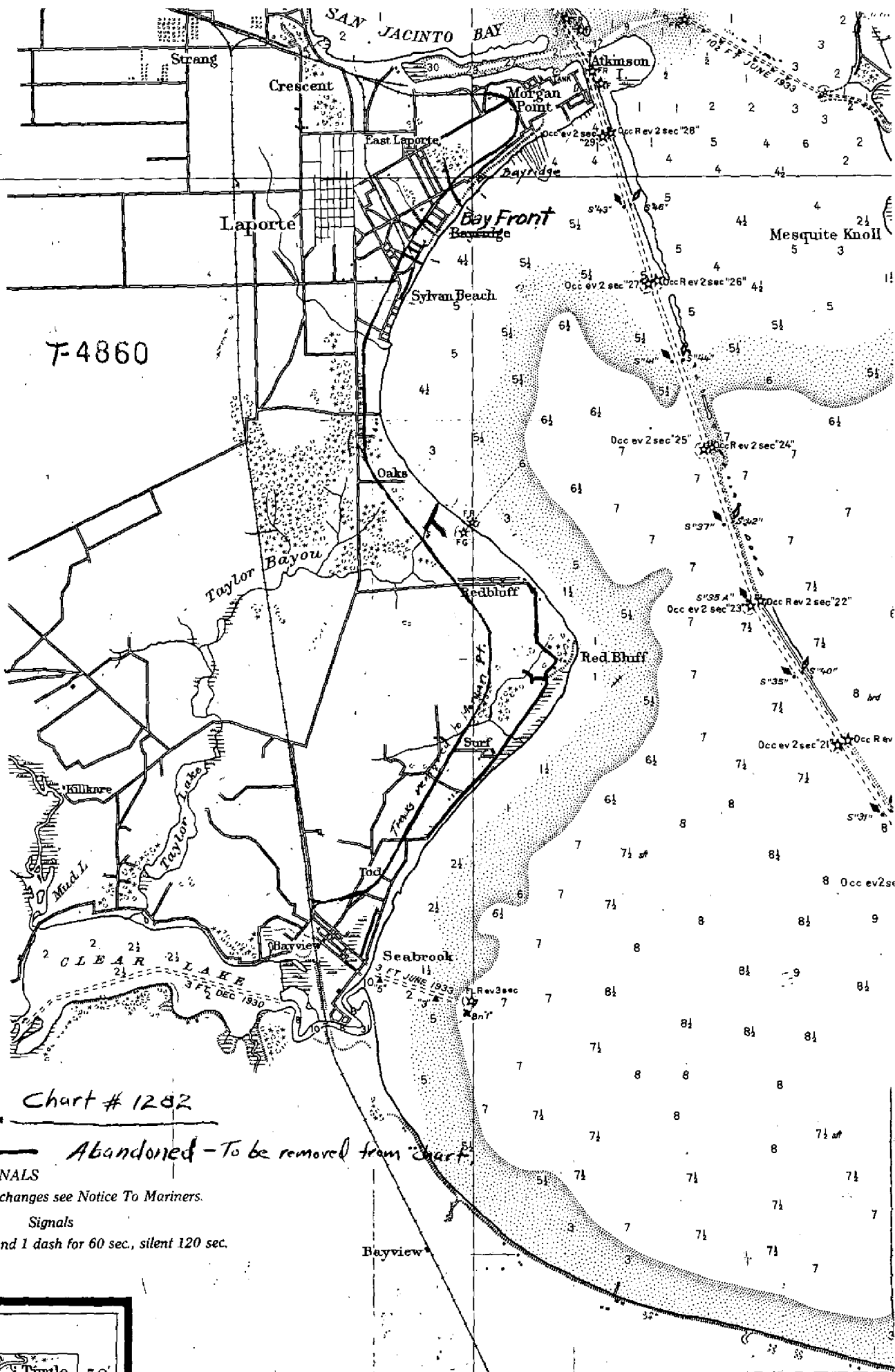


Chart # 1282

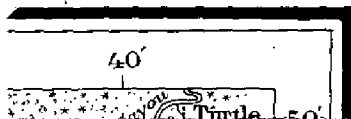
Abandoned - To be removed from chart.

BEACON SIGNALS

Light List and for changes see Notice To Mariners.

Signals

1 dash, 2 dots and 1 dash for 60 sec., silent 120 sec.



DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS T-4860

AIDS TO NAVIGATION

Corpus Christi, Texas

August 30 _____ 1934

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:

Earl O. Heaton

Chief of Party.

| DESCRIPTION | POSITION | | | | | D.A.T.U.M. | METHOD OF DETERMINATION | CHARTS AFFECTED |
|---|----------|----|-------------|----|----|------------|-------------------------|-----------------|
| | LATITUDE | | LONGITUDE | | | | | |
| | ° | ' | D.M. METERS | ° | ' | | | |
| BEACON (A Hedfish Bar Cut Lt.) | 29 | 30 | 912.1 | 94 | 52 | 851.7 | N.A. 1927 | Triang. 1282 |
| BEACON 14 (A Houston Channel Bn. 14) | 29 | 31 | 1563.9 | 94 | 53 | 914.9 | " | " |
| BEACON 22 (A Houston Channel Bn. 22) | 29 | 36 | 763.3 | 94 | 57 | 135.6 | " | " |
| BEACON 24 (A Houston Channel Bn. 24) | 29 | 37 | 1416.0 | 94 | 57 | 979.8 | " | " |
| BEACON (A Seabrook Beacon) | 29 | 33 | 140.0 | 94 | 59 | 1603.1 | " | " |
| BEACON 1 (A Dickinson Bayou Bn. 1) | 29 | 27 | 765.7 | 94 | 54 | 1570.8 | " | " |
| BEACON - 12x12 post 10' high (eUse) | 29 | 28 | 133.3 | 94 | 57 | 15.5 | " | Topo. |
| BEACON (A Houston Y.C.R.R. Bn.) | 29 | 37 | 26.1 | 95 | 00 | 106.5 | " | Triang. |
| BEACON (A Houston Y.C.F.R. Bn.) | 29 | 37 | 95.7 | 95 | 00 | 51.3 | " | " |
| BEACON (A Houston Yacht Club Bn.) | 29 | 37 | 579.6 | 94 | 59 | 1196.2 | " | " |
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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.

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 identification. 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, flagstaves and like objects are not sufficiently permanent to chart.

TOPO SHEET "C"
DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

F 4860

Corpus Christi, Texas

August 30, 1934

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:

Earl O. Heaton
Earl O. Heaton

Chief of Party.

| ✓ DESCRIPTION | POSITION | | | | | METHOD OF DETERMINATION | CHARTS AFFECTED | | |
|---|----------|----|-------------|----|-------|-------------------------|-----------------|---------|-------------|
| | LATITUDE | | LONGITUDE | | DATUM | | | | |
| | ° | ' | D.M. METERS | ° | | | | ' | D.P. METERS |
| * STACK, white concrete (△Stack of St. Mary's Seminary) | 29 | 39 | 482.8 | 95 | 00 | 904.3 | N.A. 1927 | Triang. | 1282 |
| * TANK, SHOREACKRES elevated, black, metal (△Shoreacres W.T.) | 29 | 37 | 351.7 | 95 | 00 | 1546.3 | " | " | " |
| BUILDING, N.E. cor. Houston Yacht Club. "chart outline" | 29 | 37 | 93.0 | 95 | 00 | 120.8 | " | Topo. | " |
| * TANK, elevated white, concrete (○Con) | 29 | 35 | 506.7 | 94 | 59 | 1279.6 | " | " | " |
| TANK, elevated (○High) | 29 | 30 | 1209.6 | 94 | 58 | 875.6 | " | " | " |
| TANK, elevated at Edwards Point. | 29 | 29 | 1321.2 | 94 | 54 | 976.5 | " | " | " |
| * TANK, elevated, steel (△West) | 29 | 33 | 1062.8 | 95 | 04 | 1053.4 | " | Triang. | " |
| TANK, elevated, steel (○School) | 29 | 33 | 1826.0 | 95 | 04 | 175.7 | " | Topo. | " |

Note: All objects are visible from the water.

Verified and copy checked by:

Chas. Schubert

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.

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 identification. 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.

To: Mr. Bacon
From: L.L.S.

Page #2.

Survey No. T 4860

GEOGRAPHIC NAMES

Date. September 27, 1934.

TEXAS

Chart No. 1282

Diagram No. 1282

*Names underlined in red approved Sept 29, 1934
H.B.*

* Approved by the Division of Geographic Names, Department of Interior.

φ, 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 (development) | Name on Chart | New Names in local use | Names assigned by Field | Location |
|---------------|--|--|---------------------------|------------------------------|---------------------------------------|
| <i>H.B.</i> | Bayview to be placed on survey and chart 1282 | Bayview Sta. Railroad station that serves the town. | ----- | ----- | 29° 33.6' 95° 02.2' |
| ✓ | Seabrook | USGS Same " | ----- | ----- | 29° 33.5' 95° 01.1' |
| ✓ | Clear Lake | USGS Same " | ----- | ----- | 29° 33.5' 95° 03' |
| | Clear Creek | | | Clear Creek also USGS | 29° 32.8' 95° 04.7' |
| ✓ | Tod | USGS Same " | ----- | ----- | 29° 34' 94° 01.1' |
| ✓ | Surf | USGS Same " | ----- | ----- | 29° 35.1' 94° 59.8' |
| ✓ | Red Bluff (Point) USGS | Same | ----- | ----- | 29° 36.1' 94° 59.0' |
| <i>Hold</i> ✓ | Red bluff (Town) Red Bluff OK Mar 18, 1935 See Let GNS H.B. | Red bluff USGS Red Bluff. | ----- | ----- | 29° 36.6' 94° 59.5' |
| <i>Hold</i> | Shore Acres | Shoreacres H.B. | ----- | Shore Acres local name | 29° 37.3' 95° 00.5' |
| ✓ | Oaks | USGS Same " | ----- | ----- | 29° 37.5' 95° 00.6' |
| ✓ | Sylvan Beach | USGS Same " | ----- | ----- | 29° 39.1' 95° 00.5' |
| ✓ | Bay Front | Bayridge out Locate about 7 miles NE of Bay Front | ----- | Bay Front local name | 29° 39.6' 95° 00.2' |
| ✓ | (Make Note concerning exact location of "Bayridge" as shown on map in descriptive report) Place on land. see location in Desc Report H.B. | | | | 29° 40.1' ✓ 95° 00.0' ✓ (M 100) |

To: Mr. Bacon
From: L.L.S.

Page 1

Survey No. T 4860

GEOGRAPHIC NAMES

Date. September 27, 1934 .

TEXAS

Chart No. 1282

Diagram No. 1282

*Names underlined in red approved Sept 29, 1934
N.B.*

* Approved by the Division of Geographic Names, Department of Interior.

Ø 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 |
|--------|--------------------------------|---------------------------------------|------------------------|----------------------------------|------------------------|
| ✓ | <u>Galveston Bay</u> | USGS Same | ---- | ---- | 29° 30' 94° 50' |
| ✓ | <u>Dickinson Bayou</u> | USGS Same | ---- | ---- | 29° 27.5' 94° 58.5' |
| ✓ | <u>Dickinson Bay</u> USGS | ----- | ---- | Dickinson Bay local name | 29° 28' 94° 56.4' |
| ✓ | Moses' Bayou | <u>Moses Bayou</u> USGS | ---- | ---- | 29° 25.5' 94° 57.2' |
| ✓ | <u>April Fool Pt.</u> | USGS Same | ---- | ---- | 29° 28' 94° 55.5' |
| ✓ | <u>Edwards Pt.</u> | USGS Same | ---- | ---- | 29° 29.9' 94° 54.6' |
| ✓ | <u>San Leon</u> | USGS Same | ---- | ---- | 29° 28.8' 94° 55.5' |
| ✓ | ----- | <u>Shell I.</u> | ---- | ---- | 29° 27.3' 94° 55.6' |
| ✓ | <u>Clifton By The Sea</u> USGS | ----- | ---- | Clifton By The Sea local name | 29° 30.7' 94° 58.5' |
| ✓ | Bay View | USGS <u>Bayview</u> | ---- | Bayview local name | 29° 30.9' 94° 59.4' |
| ✓ | <u>Kemah</u> P.O. | ----- | ---- | Kemah local name | 29° 32.9' 95° 02' |
| | <u>Jarbo Bayou</u> | Inquire if this is local name H.B. | | Jarbo Bayou | 29° 32.8' 95° 02.4' |

Section of Field Records

REVIEW OF TOPOGRAPHIC SURVEY NO. 4860 (1933)

Bay Front to Moses Bayou, Galveston Bay, Texas

Surveyed: February to July, 1933

Instructions dated: November 5, 1932

Plane Table Survey

Cloth Mounted

Chief of Party - E. O. Heaton.

Surveyed by - W. C. Russell and C. W. O'Melveny.

1. Condition of Records.

The records conform to the requirements of the Topographic Manual, with the following exceptions:

- a. Scaled one-half meter distances were not laid off for distortion measurement.

2. Compliance with Instructions for the Project.

The survey complies with the instructions.

3. Junction with Contemporary Surveys.

Satisfactory junction was made with T-4867 (1933). There is a discrepancy of about 10 meters in the junction with T-4614 (1930). The present survey is considered correct at this junction because of better control and because mention of the discrepancy in the Descriptive Report indicates careful checking in the field.

4. Comparison with Prior Surveys.

a. T-283 (1850).

The general features of this survey are in good agreement with the present survey. The erosion which is taking place along this shore was responsible for a shift in the shoreline of 150 meters at Red Bluff and about 200 meters at Edwards Point.

b. T-331 (1851).

Only about two miles of shoreline is common to this survey and the present survey. A comparison at lat. 29°38' indicates that the high water line is now about 100 meters inshore from its former location. This was caused by wave action (see D. R., page 3).

5. Field Drafting.

The field inking of the survey is satisfactory.

6. Additional Field Work Recommended.

The survey is complete and no additional field work is necessary.

7. Superseding Old Surveys.

Insofar as the topography actually included on the present survey is concerned, it supersedes the following surveys for charting purposes:

T-283 (1850) in part.
T-330 (1851) " "

8. Note to Compiler.

Attention is called to the fact that the railroad track along the shore, which is shown on this survey, no longer exists and that Taylor Bayou no longer drains into Galveston Bay. Bay Ridge as shown on the chart is changed to Bay Front to conform with local usage.

9. Reviewed by - A. F. Jankowski, October, 1934.

Examined and approved:

C. K. Green, *C. K. Green.*
Chief, Section of Field Records.

L. O. Albert.
Chief, Division of Charts.

F. Borden
Chief, Section of Field Work.

G. Hude
Chief, Division of H. & T.