

6609

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

DESCRIPTIVE REPORT

Topographic
~~Hydrographic~~

Sheet No. A

State TEXAS
Texas Coast
LOCALITY

Vicinity of High Island

1937

CHIEF OF PARTY

F. S. Borden

U. S. GOVERNMENT PRINTING OFFICE: 1934

6609

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

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. A

REGISTER NO. **T6609**

State TEXAS

General locality COASTLINE - GULF OF MEXICO **Texas Coast**

Locality VICINITY OF HIGH ISLAND

Scale 1:20,000 Date of survey April 26-May 4, 19 37

Vessel HYDROGRAPHER (Launch FARIS)

Chief of party F. S. Borden

Surveyed by Ross A. Gilmore

Inked by Ross A. Gilmore

Heights in feet above MHW to ground to tops of trees

Contour, Approximate contour, Form line interval _____ feet

Instructions dated February 17, 19 37

Remarks: Project No. H.T. 214

DESCRIPTIVE REPORT
TO ACCOMPANY
TOPOGRAPHIC SHEET NO. "A" (1937)

INSTRUCTIONS

This survey was made in accordance with the Director's Instructions dated February 17, 1937, for Project H. T. 214.

LIMITS

This sheet embodies the shore line and immediate area back of it from Δ ROAD, 1934 to Δ GILCHRIST, 1933, completing the gap between the 1923 survey (Register No. 4058) and that of 1933 (Register No. 4862).

GENERAL DESCRIPTION

In the main the topography is flat, consisting mostly of semi-marsh land to within a couple hundred meters or so of the beach. A highway (surfaced state road) parallels the beach the entire length of the survey. Only the centerline of this road has been shown to promote clearness in depicting other detail. The area back of the high water line to the road consists of sand and varying amounts of grass. The oil derricks shown in the vicinity south of High Island are of a new development in this area and the number of derricks is subject to change.

LANDMARKS

No new landmarks were noted in this survey with the exception of the oil derricks previously mentioned which are of too temporary nature to list.

CONTROL

Sufficient triangulation stations were recovered to give adequate control to the survey. In many cases, the former wooden

structures over these stations were still standing which facilitated matters considerably.

SURVEY METHODS AND CLOSING ERRORS

Standard plane table survey methods were used. Due to excessive heat wave action and the flatness of the topography, it was found more expeditious to use a hundred meter length of wire for measuring distances when running traverse. Stranded wire as used on the ship's wire sounding machines was found to be very satisfactory for this purpose. Detail, however, was rodded-in in the usual manner with stadia rods. By keeping the men on line while measuring between set-ups, excellent closures were obtained throughout. No adjustments were necessary on this sheet.

JUNCTIONS AND COMPARISONS WITH PREVIOUS SURVEYS

Distinct evidence of beach erosion was noted in the area covered by the survey, particularly from Longitude $94^{\circ}18.2'W.$, eastward. This no doubt accounts for the fact that the junction of the high water line of survey Register No. 4058 is not in better agreement with that of sheet A. The low water line shown on Register No. 4058 appears to extend offshore too far. It may be, however, that the shore line has receded that much in the interim between the two surveys.

The shore line at the easterly end of Register No. 4862 was found not to be in good agreement with that of sheet A so the survey was continued to a point opposite Δ GILCHRIST, where a good junction was found to exist. It may be that the shore line has receded at this particular place as evidenced by the inward curve of the general beach line. Other details appeared to be in good agreement so no attempt was made to relocate any detail in the vicinity of Gilchrist.

A cursory examination made of Register No. 1634 indicates that the shore line has receded considerably since the date of that survey (1882), averaging over a 100 meters.

RECOVERABLE PLANE TABLE POSITIONS

A list of recoverable plane table positions is appended. Two U.S.C. & G.S. bench marks were located on this sheet and these also appear in the above list and on form 524.

MAGNETIC MERIDIANS

Magnetic meridians were obtained by declinoire at four triangulation stations as shown on the sheet. The value obtained at A ROAD, 1934, appears too small in comparison with those obtained at the other stations and is questioned. As there was no evident local attraction at this station, it is hard to account for this fact. The same declinoire was used at all stations.

NEW NAMES

No new place names have been assigned to this sheet.

STATISTICS

Statute miles of shoreline	16.6
Area, square statute miles	9.6

Respectfully submitted,

Ross A. Gilmore
Ross A. Gilmore,
Jr. H. & G. Engineer.

Approved and forwarded:

G. C. Mattison
G. C. Mattison,
Comdg. HYDROGRAPHER.

RECOVERABLE PLANE TABLE POSITIONS - SHEET "A"

Object & Description	Lat. D.M.	Long. D.M.	Height	Remarks
	METERS	meters	feet	
Bench Mark, B310-1935	29°35' 773	94°16' 1141	Surface	U.S.C. & G.S. Bench mark
"Red" (small red house)	29 34 919	94 19 83	12 (appr.)	S.E. gable
County Sign Post (Chambers-Jefferson)	29 33 1229	94 21 360	8	4x4 post and cross arm
County Sign Post (Galveston-Chambers)	29 33 495	94 22 410	8	"
Black Stack (on small pumping plant)	29 33 1089	94 22 1352	28	eastern of twin stacks
Black Stack (on small pumping plant)	29 33 1088	94 22 1355	28	western of twin stacks
Bench Mark, E172-1936	29 32 679	94 24 1304	Surface	U.S.C. & G.S. Bench mark

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT
PHOTOGRAPH

~~No. 1000~~

No. T-6609 (graphic
control)

{ received June 6, 1938
registered July 22, 1938
verified
reviewed
approved

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

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