

4057

4057

Form 504 DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY
State: <u>La.-Texas</u> <small>11-5613</small>
DESCRIPTIVE REPORT.
Hydrog. Sheet No. <u>4057</u>
LOCALITY:
<u>Gulf of Mexico</u>
<u>Sabine Pass</u>
<u>1923</u>
CHIEF OF PARTY:
<u>F.S. Borden</u>

DESCRIPTIVE REPORT
TO ACCOMPANY
TOPOGRAPHIC SHEET
OF
SABINE PASS AND VICINITY
TEXAS * LOUISIANA
MARCH - JUNE
192³₂.
U.S.S. HYDROGRAPHER
F.S. Borden, Chief of Party.

DESCRIPTIVE REPORT

TO ACCOMPANY

TOPOGRAPHIC SHEET NO. _____

GENERAL DESCRIPTION:

The work on this sheet was done under instructions dated October 13, 1922.

The sheet includes the topography of Sabine Pass and the coast line for approximately ten miles east and west of the pass.

Nearly all of this coast is low and marshy, but on the eastern end the ground is comparatively solid and is used for pasture land.

This topography was executed in connection with the off-shore and inshore hydrography of the area due south of this coast line and an insert was made on the topographic sheet to include the entire coast line that bordered on this hydrographic sheet. The insert joins the main sheet at Δ Texas and continues the topography westward.

The topography was executed at those times when the weather was unfavorable for hydrography, or when it could be done without delaying the hydrographic work. In this manner the work extended over several months and several officers were engaged on various parts of it.

CHANGE OF COASTLINE:

Very little change in coast line was noticed. There appears to be a gradual building out of the coast line east of the jetties and a gradual wearing away west of the jetties.

Work is now in progress extending the west jetty several hundred feet further out, the exact length being unknown.

LANDMARKS AND SIGNALS:

Several 100 ft. hydrographic signals were built along this coast and located by triangulation. Of these, signals Δ Pup and Δ Oil are already down, and it is believed the others will be blown down within a year.

The front range beacon in Sabine Pass has been destroyed and a lighted buoy marks this turn of the channel. It is believed that this beacon will soon be replaced.

A new light is now in operation at the end of the east jetty. This light is built on top of a fifty foot steel framework. The old east jetty light is being dismantled.

SURVEY METHODS:

The coast immediately east and west of the jetties was surveyed by sextant fixes, since this area is so low and marshy that the plane table could not be used to advantage.

The rest of the topography was done by means of the usual plane table and stadia method.

Wm. D. Patterson.

Wm. D. Patterson
H & G Engineer.

Approved:

Frank S. Borden

Frank S. Borden, H & G E.
Chief of Party.

ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY
AND REFER TO NO. 4-DRM

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

October 14, 1924.

SECTION OF FIELD RECORDS

Report on Topographic Sheet No. 4057

Sabine Pass, Texas

Surveyed in 1923

Instructions dated October 13, 1922

Chief of Party, F. S. Borden.

Surveyed by W. D. Patterson and R. R. Moore.

Inked by W. D. Patterson.

1. The records conform to the requirements of the General Instructions.
2. The plan and character of the survey conform to the requirements of the General Instructions except that the projection and triangulation points were not checked nor was a geographic position given at the bottom of the sheet. The magnetic meridian was not shown.
3. The plan and extent of the survey satisfy the specific instructions. In view of the fact that as much as \$234,000,000 of commerce has passed through the Pass in one year, and the last complete survey was made 50 years ago and had no triangulation control, it would seem to have been desirable to carry the survey up to the mouth of the canal.
4. The junctions with the adjoining surveys are adequate.
5. No further surveying is required within the limits of the sheet, unless it should be decided to extend the survey of the Pass further northward as suggested in paragraph 3.
6. The character and scope of the surveying and field drafting are good.
7. Reviewed by E. P. Ellis, October, 1924.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

The finished Topographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

4057

Register No. 4008

State Texas and Louisiana
 General locality Gulf Coast ^{of Mexico} ~~Gulf Coast~~
 Locality Sabine Pass
 Chief of party Frank S. Borden
 Surveyed by W. D. Patterson, A. R. Jessup, C. M. Thomas, H. O. Olson.
 Date of survey March - June 1923
 Scale 1:20,000
 Heights in feet above -----
 Contour interval ---- feet.
 W. D. Patterson
 Inked by . R. R. Moore Lettered by . . . W. D. Patterson . .
 Records accompanying sheet (check those forwarded): ~~Photographs~~,
 Descriptive report, ~~Horizontal bench marks~~, ~~Field computations~~,
 Data from other sources affecting sheet -----

Remarks: