3917-20

JUL 1 1922

Form 504

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

State: Louisiana

11—5613

DESCRIPTIVE REPORT.

Topo Sheets No. 3917-18-19-20

LOCALITY:

Off Mississippi Delta
Chandeleur, Errol
and Breton Islands

1922

CHIEF OF PARTY:

E. R. Hand

3917-20

DESCRIPTIVE REPORT TO ACCOMPANY

TOPOGRAPHIC SHEETS A, B, C AND D

CHANDELEUR, ERROL AND BRETON ISLANDS

STEAMER BACHE

EOLINE R. HAND, H. & G. ENGINEER, COMMANDING

1922

DESCRIPTIVE REPORT TO ACCOMPANY

TOPOGRAPHIC SHEETS A, B, C AND D

CHANDELEUR, ERROL AND BRETON ISLANDS

LIMITS.

Topographic sheet A extends from the northern end of the Chandeleur Islands to △ Lur on the southern limit of the sheet; Sheet B joins sheet A at △ Lur and extends to a junction with sheet C at ⊙ Rit; Sheet C begins here and includes the remainder of the Chandeleur Islands and various patches of Errol Island; Sheet D includes Breton Island only.

CONTROL AND METHOD.

Very good control was furnished by the system of triangulation stations extending the length of this chain of Islands.

The surveys started from triangulation stations and ended at triangulation stations in most instances. On sheet D the survey ~~ext~~ended at ○ Ton which was also located by theodolite cuts from △'s Breton and Sable, and by sextant angles. Sheet B and C join at ○ Rit. Here the check consisted in the agreement of the traverses on the two sheets. ○ Wet was located by a three-point fix and a small stadia traverse was made of that Island. The small bare spots between ○ Wet and △ Errol were located by sextant cuts from the launch. In all cases the errors of closure were well within the allowed limits.

The usual method of planetable traverse, with a hundred meter wire and stadia was used. There were numerous stretches of long straight beach where the wire was an advantage in attaining greater speed and accuracy. The chainman aligned themselves in the usual way and placed a small flag at the end of each thousand meters. The intermediate hundreds were also marked in the sand to enable the instrumentman to check the distances. Side shots for detail were made with rods in the usual way.

On the west side, where traversing was impossible because of swamps, a number of planetable three point fixes with rod readings were used.

SHORELINE AND GENERAL CONSIDERATIONS.

No traces could be found of the Date Tree shown on Chart 194.

Many changes will be noted in the shore line of Errol Island. It has been cut into a number of small sand keys the shorelines of which are constantly changing. In places there are channels deep enough for a medium sized launch where the chart shows land.

In other places the shoreline and inlets change somewhat with the wind and seasons. But no other important changes were noted.

Respectfully forwarded,

Eoline R. Hand

Eoline R. Hand, Hyd.& Geod. Engr.
Commanding.

Respectfully submitted,

L.O. Stewart

L.O.Stewart, Hyd.& Geod.Engr.

PLANE - TABLE POSITIONS

NAME	LAT.	D.M.	LONG.	D.P.	REMARKS
Rit	29-44N	804	88-52 W	288	Signal tripod
Hop	29-45 N	1624	88-51 W	464	" "
Tow	29-59 N	371	88-50 W	280	" "
Apt	29-54 N	608	88-49 W	1512	" "
Cap	29-49 N	1584	88-49 W	1234	" "
Wet	29-37 N	1704	88-58 W	696	" "
Err	29-36 N	192	89-00 W	726	" "
Ton	29-27 N	1238	89-13 W	494	" "

TO ACCOMPANY TOPOGRAPHIC SHEETS A, B, C, and D Vicinity Chandeleur Ids.

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 November 12, 1924.

SECTION OF FIELD RECORDS

Report on Topographic Sheets Nos. 3917, 3918, 3919, 3920.

Chandeleur, Errol and Breton Islands, Louisiana

Surveyed in 1922.

Instructions dated November 6, 1921 and January 25, 1922.

Chief of Party, E. R. Hand.

Surveyed by W. D. Patterson, L. B. Clore, L. O. Stewart, C. H. Wright.

Inked by L. B. Clore, L. O. Stewart and G. H. Everett.

1. The records conform to the requirements of the General Instructions.

2. The plan and character of the surveys conform to the requirements of the General Instructions.

3. The plan and extent of the surveys satisfy the specific instructions.

4. The junctions with adjoining surveys are adequate.

5. The usual field drafting was done by the field party.

6. No additional surveying is needed within the area covered by these sheets.

7. The character and scope of the surveying and field drafting are excellent.

8. Reviewed by E. P. Ellis, November, 1924.

Form 537a
11—5813

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

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.

Register No. 3917

State . . . . . Louisiana . . . . . .

General locality . ~~Gulf of Mexico~~. Off Mississippi. Delta.

Locality . . . . Chandeleur Islands . . . . . .

Chief of party . . Eoline R. Hand . . . . . .

Surveyed by W.D. Patterson, L.B. Clore ; L.O. Stewart . .

Date of survey . . February and March 1922 . . . .

Scale . . . . . 1: 20,000 . . . . . .

Heights in feet above ——— . . . . . .

Contour interval . . . . feet.

Inked by L.O. Stewart G.H. Everett . Lettered by . G.H. Everett . . . .

Records accompanying sheet (check those forwarded): Photographs,

Descriptive report, Horizontal angle books, Field computations,

Data from other sources affecting sheet . . . . . .

Remarks:

Form 537a
11—5813

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

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.

Register No. 3918

State . . . . Louisiana . . . . . .

General locality . ~~Gulf of Mexico~~ Off Mississippi Delta

Locality . . Chandeleur Ids. . . . . .

Chief of party . Eoline R. Hand . . . . . .

Surveyed by . W. D. Patterson & L. B. Clore . . . . . .

Date of survey . . February 1922 . . . . . .

Scale . . . . . 1: 20 000 . . . . . .

Heights in feet above ——— . . . . . .

Contour interval ——— . . . . feet.

Inked by L. B. Clore . . Lettered by . G. H. Everett . . . .

Records accompanying sheet (check those forwarded): Photographs, Descriptive report, Horizontal angle books, Field computations, Data from other sources affecting sheet . . . . . .

Remarks:

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DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

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.

Register No. 3919

State . . . . Louisiana . . . . . .

General locality . . ~~Gulf of Mexico~~, off Mississippi Delta .

Locality . . Errol and Chandeleur Islands . . . . . .

Chief of party . . . Eoline R. Hand, H. & G. E. . . . . .

Surveyed by . . L.O. Stewart and L.B. Clore . . . . . .

Date of survey . . . February 1922. . . . . .

Scale . . . . . 1:20,000 . . . . . .

Heights in feet above . -------- . . . . . .

Contour interval ------ feet.

Inked by L.O.Stewart . . Lettered by . L.O.S. . . . . .

Records accompanying sheet (check those forwarded): Photographs, Descriptive report, Horizontal angle books, Field computations, Data from other sources affecting sheet . . . . . .

Remarks:

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DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

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.

Register No. 3920

State . . . Louisiana . . . . . .

General locality . . ~~Gulf of Mexico~~, off Missippi Delta

Locality . . . Breton Island . . . . . .

Chief of party . . . Eoline R. Hand, H. & G.E. . . . . .

Surveyed by . . L.O. Stewart and C. H. Wright . . . . . .

Date of survey . . . March 1922 . . . . . .

Scale . . . . . 1:20,000 . . . . . .

Heights in feet above . ---------- . . . . . .

Contour interval ------- . . . . feet.

Inked by . L.O. Stewart . Lettered by . L.O.S. . . . . .

Records accompanying sheet (check those forwarded): Photographs, Descriptive report, Horizontal angle books, Field computations, Data from other sources affecting sheet . . . . . .

Remarks: