DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

State: La.

LOCALITY:
Passed by the
Mississippi River
Mississippi Delta
South Pass.

CHIEF OF PARTY:
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

Str. HYDROGRAPHER, August 23, 1917.

Descriptive Report
to accompany
Hydrographic Sheet 2888.

LIMITS.

The soundings on this sheet include the off-shore soundings taken in the vicinity of the reported shoals off the mouth of South Pass, Mississippi River, and the inshore work inside of the 30 fathom curve from the Western limit of the hydrographic sheet of the Eastern approaches to the Mississippi Delta, westward to Meridian 89° 15'.

METHODS.

The inshore work between South Pass and Meridian 89° 15', was done with hand lead with two sounding chains, as described in my annual report. The off shore work was done in the usual manner, correcting for currents and distributing error of closure. In securing currents, it was not practicable to anchor the ship for regular current observation, and the method of stopping the vessel and measuring drift at certain intervals was used. On two of the off shore lines (J1 - 6J ), the soundings were so far from the starting and closing line, that the entire line was plotted by course and log distances, and the entire closure distributed by time. The ship was stopped and backed at each sounding. Each sounding was a vertical cast, of small hand Cosmos machine was used, making the taking of these soundings a tedious and laborious work.

RESULTS.

The soundings, as taken, show, that the bottom is of a regular slope, deepening rapidly to the deep waters of the Gulf, that the bottom is very soft—grey mud—and that the probability of a shoal or shoals in the area covered is very remote.

On the smooth sheet, only the final positions of the off shore lines are plotted. The final positions
Descriptive Report
to accompany
Hydrographic Sheet 2888

being transferred from the boat sheet. All corrections are shown on boat sheet. The final positions were either plotted or checked by myself. The positions I plotted were checked by Mr. Luce.

The soundings in the rectangle, bounded by parallels 28° 50' and 29° 00' and meridian 88° 50' and 88° 55' are in pencil—positions numbered in red ink, and corrected with pencil lines. The soundings in the area bounded by parallels 28° 45' and 28° 55' and meridian 88° 55' and 89° 05' are in black ink, and erect when looking toward north. By error, a few of the soundings in the work west of South Pass were inked in red ink—the balance are in pencil.

DATUM.

This work is all on Mobile and New Orleans datum.

TIDES.

The tidal observations for the reduction of the soundings west of South Pass were forwarded to the office in July—16th. See letter of transmittal of that date.

Respectfully submitted

[Signature]
Chief of Party.

Table of Statistics attached.
Table of Statistics to accompany Sheet 2888.

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>K</th>
<th>Totals</th>
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</tbody>
</table>

Respectfully

Chief of Party.
Hyd. Sheet 2888.
(Additional Work)

Most of the additional work on this sheet is off-shore work. It was projected by the Field Party and in verifying this sheet it was assumed that the positions were correct, although they were checked roughly to make certain that there were no serious errors.

Positions 6 to 15 E., inclusive, were not projected and an effort to complete the line was useless, as not enough data was given.

Soundings in feet.

Projected and plotted by Field Party.

Verified and inked by S.L. R.

Samuel L. Rosenberg,
Sep 18, 1917.
Hydrographic Sheet 2888 a

This sheet was originally projected and plotted on Hyd. Sheet 2888 a, but some of the soundings were inked in red, the same color which had been used for the position numbers, and the scale of Hyd. Sheet 2888 was too small to show the work adequately. Therefore the work of the first few days of this survey which fell near the line was replotted on Hyd. Sheet 2888 a.

In sounding book no. 2, the following note appeared: "Soundings 3-8 inclusive not vertical and probably 2nit3 fms too deep. I.M.D." So these soundings were plotted 2 fms. less than given in the sounding book.

This sheet overlapped Hyd. Sheet 3908 very well, considering the roughness of the bottom in that vicinity.

Soundings in feet.

Samuel H. Rosenberg.

Plotted by S.H. Rosenberg.

Edge plotted and inked by S.H. Rosenberg.

Feb. 18, 1917.
Memorandum to accompany Sheet 4

June 8, July 1907.

The lines were greatly influenced by strong and variable currents; the direction of their set and their velocity being uncertain, as there was no way of determining them; an adjustment between the first angle determined position going out on a range and the first angle determined position coming back on the range is the only way practicable.

On plotting the lines, positions at turns are when the vessel was straightened out on her course with the helms steady. When turning, the current was a pronounced factor as the length of wire out, when the current was at different depths, interfered with the log line and the turn had to be regulated so as to keep the latter from fouling the recenty used. Soundings could not be taken with the Cosmos machine when the recenty was down as the wires fouled and sounding was lost.
One day an opportunity to get the set and drift of the current was taken advantage of, by letting the vessel drift when there was no wind and little sea. The result showed a northeasterly set of approximately 3 knots per hour in that particular locality.

It is very probable that at times a velocity of 3 knots is attained by the currents between the mouths of the passes and at a distance of 15 to 20 miles offshore.

During the time the vessel was engaged in running the lines, Pass A Outer Light was never sighted, and Northeast Pass (Balize) Old Light tower was only seen for a short distance from the right vessel.

\[\text{Signature}\]

W. C. L. S.
DESCRIPTIVE REPORT.

Hydro Sheet No. 2888

LOCALITY:

Examination of Reported Shoals of the Passes of the Mississippi River

1907

CHIEF OF PARTY:

John Ross
June 21st, 1882

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<th>Distance</th>
<th>Course</th>
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<td>10:16</td>
<td>15°</td>
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</tr>
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<td>11:16</td>
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Dec. 1883

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<td>E 3.3</td>
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<td>2nd</td>
<td>1.1</td>
<td>E 3.3</td>
</tr>
<tr>
<td>3rd</td>
<td>1.3</td>
<td>E 3.3</td>
</tr>
<tr>
<td>4th</td>
<td>1.4</td>
<td>E 3.3</td>
</tr>
</tbody>
</table>

The course of the vessel was accurately taken at 9:05 a.m., and at 10:16 a.m. and 11:16 a.m., the distance and course being then determined.

The above party was sent to hold the bearings, the vessel being in a W 57° N course.

The vessel was surveyed on line with the course and distance determined.

The bearings were taken at 9:05 a.m., 10:16 a.m., and 11:16 a.m., the distance and course being then determined.

The vessel was surveyed on line with the course and distance determined.
<table>
<thead>
<tr>
<th>Time</th>
<th>Date</th>
<th>Course by Compass</th>
<th>Dev.</th>
<th>Magnetic Course</th>
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<td>7</td>
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<tr>
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<td>01 34</td>
<td></td>
</tr>
</tbody>
</table>

An allowance of 1.5 was made at times, i.e., the distance between tenses is shortened, on account of the vessel blowing to leeward, clear of the log.

It will be noticed that when standing from the west, vessel on the range.

The current generally increased as the ship steered eastward. This is shown by the course steered to keep on the range.

7:23 a.m., centre to 15 p.m., 17°.
<table>
<thead>
<tr>
<th>Time</th>
<th>Past Log</th>
<th>Obstruct Date</th>
<th>Course Log</th>
<th>Date</th>
<th>Course Log</th>
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</tr>
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<tr>
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<td>3.74 by 8</td>
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<td>4.2</td>
<td>30.0</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

It will be seen that the current over the channel is different from that off shore and that it increases in velocity as it is in the back of the vessel increases.

Note that the scale in feet of the chart is

...
<table>
<thead>
<tr>
<th>Date</th>
<th>Comp.</th>
<th>True Dev.</th>
<th>True Bearing</th>
<th>Angle</th>
<th>Climb</th>
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<td>51.5</td>
<td>5° 20' 20&quot; W</td>
<td>65° 22' 44&quot; W</td>
<td>5° 37' 31&quot;</td>
<td>68° 47' E</td>
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<td>8</td>
<td>53.5</td>
<td>0° 00' 00&quot;</td>
<td>62° 15' 44&quot;</td>
<td>5° 36' 56&quot;</td>
<td>65° 58' E</td>
</tr>
<tr>
<td>9</td>
<td>55</td>
<td>0° 00' 00&quot;</td>
<td>62° 15' 44&quot;</td>
<td>5° 36' 56&quot;</td>
<td>65° 58' E</td>
</tr>
<tr>
<td>10</td>
<td>57</td>
<td>0° 00' 00&quot;</td>
<td>62° 15' 44&quot;</td>
<td>5° 36' 56&quot;</td>
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<tr>
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<td>59</td>
<td>0° 00' 00&quot;</td>
<td>62° 15' 44&quot;</td>
<td>5° 36' 56&quot;</td>
<td>65° 58' E</td>
</tr>
<tr>
<td>12</td>
<td>61</td>
<td>0° 00' 00&quot;</td>
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<tr>
<td>13</td>
<td>63</td>
<td>0° 00' 00&quot;</td>
<td>62° 15' 44&quot;</td>
<td>5° 36' 56&quot;</td>
<td>65° 58' E</td>
</tr>
<tr>
<td>14</td>
<td>65</td>
<td>0° 00' 00&quot;</td>
<td>62° 15' 44&quot;</td>
<td>5° 36' 56&quot;</td>
<td>65° 58' E</td>
</tr>
<tr>
<td>15</td>
<td>67</td>
<td>0° 00' 00&quot;</td>
<td>62° 15' 44&quot;</td>
<td>5° 36' 56&quot;</td>
<td>65° 58' E</td>
</tr>
</tbody>
</table>

At 8.35 a.m., red center at 30' south.
At 8.30 a.m., ended in center. Wished to work.
<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>P.M.</th>
<th>Log</th>
<th>1st Log</th>
<th>2nd Log</th>
<th>3rd Log</th>
<th>4th Log</th>
<th>5th Log</th>
</tr>
</thead>
<tbody>
<tr>
<td>7/7</td>
<td>2:47</td>
<td>7.2</td>
<td>5&quot;</td>
<td>6</td>
<td>42.8</td>
<td>42.8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7/7</td>
<td>4:22</td>
<td>7.8</td>
<td>5&quot;</td>
<td>6</td>
<td>32.8</td>
<td>42.8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7/7</td>
<td>6:01</td>
<td>9.2</td>
<td>2.25</td>
<td>3</td>
<td>32.8</td>
<td>42.8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7/7</td>
<td>9:02</td>
<td>9.2</td>
<td>2.25</td>
<td>3</td>
<td>32.8</td>
<td>42.8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7/7</td>
<td>11:22</td>
<td>11.2</td>
<td>1</td>
<td>2.25</td>
<td>3</td>
<td>32.8</td>
<td>42.8</td>
<td>1/2</td>
</tr>
<tr>
<td>7/7</td>
<td>14:30</td>
<td>15.2</td>
<td>1</td>
<td>2.25</td>
<td>3</td>
<td>32.8</td>
<td>42.8</td>
<td>1/2</td>
</tr>
<tr>
<td>7/7</td>
<td>16:20</td>
<td>16.2</td>
<td>1</td>
<td>2.25</td>
<td>3</td>
<td>32.8</td>
<td>42.8</td>
<td>1/2</td>
</tr>
<tr>
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<td>17:20</td>
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<td>1</td>
<td>2.25</td>
<td>3</td>
<td>32.8</td>
<td>42.8</td>
<td>1/2</td>
</tr>
<tr>
<td>7/7</td>
<td>18:30</td>
<td>18.2</td>
<td>1</td>
<td>2.25</td>
<td>3</td>
<td>32.8</td>
<td>42.8</td>
<td>1/2</td>
</tr>
<tr>
<td>7/7</td>
<td>19:30</td>
<td>23.6</td>
<td>1</td>
<td>2.25</td>
<td>3</td>
<td>32.8</td>
<td>42.8</td>
<td>1/2</td>
</tr>
</tbody>
</table>

Log entries:
- The logbook entry at 2:47 shows the ship's log (Log) and a note indicating 5" which could be a measurement or mark.
- The logbook entry at 4:22 shows the ship's log and a note indicating 6 which could be a measurement or mark.
- The logbook entry at 6:01 shows the ship's log and a note indicating 2.25 which could be a measurement or mark.
- The logbook entry at 9:02 shows the ship's log and a note indicating 3 which could be a measurement or mark.
- The logbook entry at 11:22 shows the ship's log and a note indicating 1 which could be a measurement or mark.
- The logbook entry at 14:30 shows the ship's log and a note indicating 2 which could be a measurement or mark.
- The logbook entry at 16:20 shows the ship's log and a note indicating 3 which could be a measurement or mark.
- The logbook entry at 17:20 shows the ship's log and a note indicating 4 which could be a measurement or mark.
- The logbook entry at 18:30 shows the ship's log and a note indicating 5 which could be a measurement or mark.
- The logbook entry at 19:30 shows the ship's log and a note indicating 6 which could be a measurement or mark.
At day July 12.

In the notes below where course could be checked on ranges.

W. G. It is evident that on E. course there is an 5° 47' sock of 8° (approx.)
It is also seen that there is a strong set against the wind of 8 knots in 12 knots direction, or 30°/approx.
W. G. It is evident that on N. course there is an 6° 47' sock of 6° (approx.)
The barometer N. course reads 29.1 while the C. is 29.0—allowance 5/10 in the reading.

G. While sounding the ship moving to port and drifted 14/10 of course it had some time to get her back to the range.
EXAMINATION OF HYDROGRAPHIC SHEETS
by the
DIVISIONS OF FIELD WORK AND FIELD RECORDS.

Sheet No. 2888

1. Are numbers of hydrographic sheets adjoining limits of work shown? .................................................................

2. Are transferred soundings of adjacent hydrographic sheets made to show that ground has been covered? 
   \( \sqrt{\text{YES}} \)........................................

3. Is sheet of proper size? .................................................................

4. Is sheet well laid out, no additions required? .........................

5. Are limits of hydrography regular? ...........................................

6. Are positions of signals accentuated by light dot of black ink to assist plotting? \( \sqrt{\text{NO}} \).................................

7. Are tidal stations plotted on sheet? ...........................................

8. Is area of work completely covered? ........................................

9. Are critical soundings and dangers shown distinctly? .............

10. Is the control good? .................................................................

11. Are positions of signals clearly shown? .................................

12. Are soundings well distributed? .............................................

13. Are shoals carefully and sufficiently developed? ..................

   \( \text{Not sufficient soundings on reported shore near lot 2957} \)

   \( \text{Long 81.58' south of reported shoal.} \)

14. Do soundings cross satisfactorily? ........................................

   ...............................................................................

   .............................................................................
15. Is existence or non-existence of a reported shoal determined?  
No. see 13-  

16. Is least sounding over bar probably determined by check soundings or diagonal sounding lines crossing same? .............  

17. Are projection and plotting checked? .........................  

18. Is the scale of this sheet sufficient to show the necessary details in the navigable channels? .........................  

19. Is the shoreline shown? ........................................  

20. Is there an accompanying list of plane table or sextant positions of signals?  

21. Has sufficient attention been given to the development of channel? .................................................................  

22. Are sufficient bottom characteristics shown?  

23. Are sounding lines normal to coast? ................................  

24. Have suspicious soundings been investigated? ................  

25. Are ranges or bearings given for important shoals? .........  

26. Are sailing directions given? .................................
27. Is the general hydrography in the entire area properly developed? ........................................

28. Are shallow channels for motor boats sounded? .................................................................

29. Is there a note as to coloration of water in or near mouths of rivers and bays? No. ..............................

30. Is there any information given as to obtaining fresh water? ................................................

31. Are there proper intervals between soundings? .................................................................

32. Are projecting points of land and reefs determined by sufficient lines with soundings at close intervals run at right angle to direction of points? ................................................

33. Is there sufficient data to draw depth curves? .................................................................

34. Are shoal areas remote from shore properly developed by independent system of buoy signals placed in the vicinity of shoal? .................................................................

35. Are soundings obtained at docks in harbor? .................................................................

36. Is there a full list of data effecting sheet given? No .................................................................

37. Are description of hydrographic signals and marking of same recorded? .................................

38. Is there a list of land marks given? ........................................................................


39. Does descriptive report give date of instructions? .................................................................................................................................

40. Are small islets and rocks distinctly shown? .................................................................................................................................

41. Is information relative to anchorage given? .................................................................................................................................

42. Are survey methods explained sufficiently? .............................................................................................................................

43. Are geographical names given on sheet? .................................................................................................................................

44. Are coast pilot notes given? ...........................................................................................................................................................

45. Is the unit of soundings given in title? ........................................................................................................................................

46. Are sufficient depth curves shown? ...........................................................................................................................................

47. Are aids to navigation shown? ....................................................................................................................................................

48. Are grass or kelp indications shown? ........................................................................................................................................

49. Are sailing courses shown on sheet? ........................................................................................................................................

50. Is descriptive note given as to visibility of shoals? .......................................................................................................................

51. Are dangers fully described in descriptive report? .........................................................................................................................

52. Is the character of reefs described on sheet? ............................................................................................................................

53. Are beaches indicated where vessels in distress could be safely beached? ....................................................................................

54. Are standard symbols used in drafting? ........................................................................................................................................

55. Is information relative to currents given? ..................................................................................................................................

56. Is there a statement as to certainty or probability of least depth over dangers given? ................................................................

57. Is the existence of certain shoals doubtful? ..................................................................................................................................

58. Is a general description of coast given? .........................................................................................................................................
59. Is information relative to commercial importance given? ..............

60. Does the descriptive report cover one or a moderate number of sheets? ..................................................................................

61. Are descriptions of headlands given? .................................

62. Is the nature of shoals whether coral rock or sand shown on sheet? .....................................................................................

63. Is the position of the tide gauge well selected? Is the tidal data sufficient for the reduction of soundings over the area of the sheet? .....................................................................................

64. Have projection lines been numbered around all the edges? ... .....................................................................................

65. Has the geographic position of one of the triangulation points on the sheet been inked near the bottom edge of the sheet? .....................................................................................

66. Was the speed of the sounding boat such as to allow vertical readings of the leadline? ..........................................................

67. Were lines of soundings run along the axis of narrow channels? .....................................................................................

68. Have rocks or shoals seen from the sounding boat in passing been definitely located? ..........................................................

69. Have charted shoals reefs, or rocks been investigated? ..........

70. Have sounding records been kept in approved form? ..............
71. Are Wire drag surveys required? ..............................................
72. Is the area between the soundings taken and the shore indicated or described as being covered by reefs, etc. as the case may be? .................................................................

Other Remarks .................................................................................

.................................................................................................

The foregoing points marked by a cross (+) and the following additional points are to be considered for wire drag hydrographic sheets.

73. What additional areas, if any, in the locality covered by the sheet should be dragged? .................................................................

.................................................................................................

74. Number of small areas inside limits of work missed by drag (few, moderate number, numerous) ..............................................

75. Are shoals discovered with drag clearly shown? ......................

76. Were shoals later covered by drag set at suitable depth? ..........

.................................................................................................

77. Are all areas missed by drag clearly shown? .........................

78. Are overlaps ample? .................................................................

79. Do effective depths conform to instructions under which the work was done? .................................................................

80. If work was done before present practice as regards effective depths was adopted, should the area be re-dragged to conform to the present practice? .................................................................

.................................................................................................

81. Are all shoals discovered shown on current issue of chart? ......

.................................................................................................
EXAMINATION OF HYDROGRAPHIC SHEETS
by the
DIVISIONS OF FIELD WORK AND FIELD RECORDS.

Sheet No. 2888

1. Are numbers of hydrographic sheets adjoining limits of work shown? .................................................................

2. Are transferred soundings of adjacent hydrographic sheets made to show that ground has been covered? ................

3. Is sheet of proper size? .................................................................

4. Is sheet well laid out, no additions required? .........................

5. Are limits of hydrography regular? ............................................

6. Are positions of signals accentuated by light dot of black ink to assist plotting? .......................... Yes

7. Are tidal stations plotted on sheet? ..............................................

8. Is area of work completely covered? .................................. Yes

9. Are critical soundings and dangers shown distinctly? ...........

10. Is the control good? .................................................................

11. Are positions of signals clearly shown? .................................

12. Are soundings well distributed? ..............................................

13. Are shoals carefully and sufficiently developed? ................

14. Do soundings cross satisfactorily? .................................. Yes, quite well

............................................................................................................
15. Is existence or non-existence of a reported shoal determined? 

16. Is least sounding over bar probably determined by check soundings or diagonal sounding lines crossing same? 

17. Are projection and plotting checked? 

18. Is the scale of this sheet sufficient to show the necessary details in the navigable channels? 

19. Is the shoreline shown? 

20. Is there an accompanying list of plane table or sextant positions of signals? 

21. Has sufficient attention been given to the development of channel? 

22. Are sufficient bottom characteristics shown? 

23. Are sounding lines normal to coast? 

24. Have suspicious soundings been investigated? 

25. Are ranges or bearings given for important shoals? 

26. Are sailing directions given?
27. Is the general hydrography in the entire area properly developed? .............................................

28. Are shallow channels for motor boats sounded? ................. ..........................

29. Is there a note as to coloration of water in or near mouths of rivers and bays? No. ..........................................

30. Is there any information given as to obtaining fresh water? ...... ..........................................

31. Are there proper intervals between soundings? ................. ..........................................

32. Are projecting points of land and reefs determined by sufficient lines with soundings at close intervals run at right angle to direction of points? ..........................................

33. Is there sufficient data to draw depth curves? .................. ..........................................

34. Are shoal areas remote from shore properly developed by independent system of buoy signals placed in the vicinity of shoal? ..........................................

35. Are soundings obtained at docks in harbor? ................. ..........................................

36. Is there a full list of data effecting sheet given? ......... ..........................................

37. Are description of hydrographic signals and marking of same recorded? ..........................................

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39. Does descriptive report give date of instructions? 

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59. Is information relative to commercial importance given? 

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66. Was the speed of the sounding boat such as to allow vertical readings of the leadline? 

67. Were lines of soundings run along the axis of narrow channels? 

68. Have rocks or shoals seen from the sounding boat in passing been definitely located? 

69. Have charted shoals reefs, or rocks been investigated? 

70. Have sounding records been kept in approved form?
71. Are Wire drag surveys required? ........................................

72. Is the area between the soundings taken and the shore indicated or described as being covered by reefs, etc. as the case may be?

Other Remarks: Position of 132/F soundings.

Long. 81° 12' doubtful.

The foregoing points marked by a cross (+) and the following additional points are to be considered for wire drag hydrographic sheets.

73. What additional areas, if any, in the locality covered by the sheet should be dragged? ........................................

74. Number of small areas inside limits of work missed by drag (few, moderate number, numerous) ........................................

75. Are shoals discovered with drag clearly shown? ..................

76. Were shoals later covered by drag set at suitable depth? ....

77. Are all areas missed by drag clearly shown? ..................

78. Are overlaps ample? ........................................

79. Do effective depths conform to instructions under which the work was done? ........................................

80. If work was done before present practice as regards effective depths was adopted, should the area be re-dragged to conform to the present practice? ............................

81. Are all shoals discovered shown on current issue of chart? ....

........................................