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U. S. COAST & GEODETIC SURVEY
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Form 504
Rev. April 1935
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Topographic
Hydrographic

Sheet No.s A, B, BB & Y

State OREGON

LOCALITY

COLUMBIA RIVER

Clatsop Spit to Smith Point

1935

CHIEF OF PARTY

Robert W. Knox

U. S. GOVERNMENT PRINTING OFFICE

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DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEYU. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

MAY 16 1936

REG. NO.

Acc. 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 Letter A **6480**

REGISTER NO.

State OregonGeneral locality Columbia RiverLocality Clatsop Spit to Point AdamsScale 1:10,000 Date of survey July, 1935, 19~~Vessel~~ Party No. 9Chief of Party Robert W. KnoxSurveyed by R. S. ThompsonInked by R W K

Heights in feet above _____ to ground to tops of trees

Contour Approximate contour Form line interval _____ feet

Instructions dated Feb 26, 1935

Remarks: _____

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

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| U. S. COAST & GEODETIC SURVEY LIBRARY AND ARCHIVES | REG. NO. |
| MAY 16 1935 | |
| Acc. No. | |

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

Field Letter B **6481a**

REGISTER NO.

State OregonGeneral locality Columbia RiverLocality Point Adams to Lewis and Clark RiverScale 1:10,000 Date of survey June, 1935, 19Vessel Party No. 9Chief of Party Robert W. KnoxSurveyed by R. S. ThompsonInked by K. McBean

Heights in feet above _____ to ground to tops of trees

Contour Approximate contour Form line interval _____ feet

Instructions dated February 26, 1935, 19

Remarks: _____

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEYU. S. COAST & GEODETIC SURVEY
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MAY 16 1936

REG. NO.

TOPOGRAPHIC TITLE SHEET

Acc. No.

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

Field Letter BB 6481 b

REGISTER NO.

State OregonGeneral locality Columbia RiverLocality Lewis and Clark River to Smith PointScale 1:0,000 Date of survey June, 1935, 19Vessel Party No. 9Chief of Party Robert W. KnoxSurveyed by R. S. ThompsonInked by K. McBean

Heights in feet above _____ to ground to tops of trees

Contour Approximate contour Form line interval _____ feet

Instructions dated February 26, 1935, 19

Remarks: _____

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEYU. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

MAY 16 1936

REG. NO.

Acc. 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 Letter Y 6482

REGISTER NO.

State OregonGeneral locality Columbia RiverLocality Lewis & Clark and Youngs RiversScale 1:10,000 Date of survey June and July, 1935Vessel Party No. 9Chief of Party Robert W. KnoxSurveyed by R. S. ThompsonInked by K. McBean

Heights in feet above _____ to ground to tops of trees

Contour Approximate contour Form line interval _____ feet

Instructions dated February 26, 1935, 19

Remarks: _____

DESCRIPTIVE REPORT
TO ACCOMPANY TOPOGRAPHIC SHEETS NOS.

"A", "B", "BB" & "Y"

Scale 1:10,000

COLUMBIA RIVER

OREGON

ASTORIA TO CLATSOP SPIT

Instructions dated Feb. 26, 1935

Surveyed by R. S. Thompson

GENERAL DESCRIPTION: The four topographic sheets listed above are a survey of the Oregon bank of the Columbia River from Clatsop Spit to Smith Point, Astoria, and include Youngs Bay and the lower portions of the Youngs and Lewis and Clark Rivers.

With the exception of that shown on Sheet Y (Lewis and Clark and Youngs Rivers), the territory along the river is low and fairly flat; low hills lie between and on either side of the two rivers. Except near the spit and ocean, the entire country is covered with a thick growth of small timber and brush.

CONTROL: The control used for the survey of these four sheets is from the triangulation scheme executed by this party during the past season. No old stations were used whose positions had not been re-determined.

SURVEY METHODS: Standard survey methods were used. Before field work was begun the instrument was adjusted, the rods were tested on a measured base and several four-meter rods were graduated so that longer half interval sights might be taken along the traverse.

No record of closing errors could be found, but the topographer, Mr. R. S. Thompson, Surveyor, periodically reported to the writer that closures were negligible.

It was understood from correspondence with the Office that an air-photo compilation of the Columbia River was contemplated; consequently no time was spent in running in non-navigable sloughs, etc., nor in locating with precision detail back of the shore line, except such objects as might prove useful in the air-photo compilation.

The U. S. Engineers ^{red} plane coordinate grid system was overlaid on the sheets in full lines. It appears as if that Bureau will make continued use of the sheets in their periodic surveys of the channels. The position of the grid with respect to the geographic system was computed from the four corner intersections of the parallels and meridians in the case of each sheet, and checked by at least two triangulation stations whose positions had been reduced to the plane coordinate system.

MAGNETIC MERIDIAN: The declinatoire used in the determination of the magnetic meridians appearing on these sheets was standardized against compass declinometer No. 22 and found to have ^{a correction of} an error of +53 minutes. The meridians* as they appear on the sheets should be moved eastward that amount. The measurements, however, appear to be erratic. The scaled values (corrected) are:

* Meridians erased and re-inked in Office with correction applied.

* See letter Feb 17/38 R.W.Knox, filed in Des. Rept. T-6521b

| | | | |
|----|------------|--------------------|----------------|
| At | East Jetty | sheet A | = 23° 47' east |
| | Hiway | common to sheets Y | = 24 20 |
| | | and BB | |
| | Leahy | sheet Y | = 24 36 |

The value obtained at Δ Tansy Point₃ - about in the middle of the area covered by the above sheets - with a compass declinometer was 23° 01' east.

NOTES ON INDIVIDUAL SHEETS: The following part of this report covers notes on each of the several sheets and deals with specific items that are not of a general nature. The notes on each sheet have been typed separately.

Respectfully submitted:

Robert W. Knox
Robert W. Knox,
H. & G. Eng'r.

Sheet "A" - Clatsop Spit to Point Adams

COMPARISION WITH PREVIOUS SURVEYS: The area covered by sheet A was last surveyed in 1926, registry No. 4264. A comparision between the two sheets shows considerable change in the high water line, the most important being the narrowing of Clatsop Spit. Erosion has occurred from sea and river sides. The spit was about 700 meters wide in 1926, compared with about 400 meters in July, 1935.

The shore line is changing continually, particularly during the winter storms, and some fear is felt that an exceptionally heavy and prolonged blow would cause the seas to cut through the spit. A tremendous amount of damage would result from such action.

To forestall such a catastrophe, a system of low drift fences have been built along the seaward slope of the spit, and within the last few months a systematic planting of a hearty type of grass has been attempted.

A fair junction - about 20 meters- with the 1926 work was obtained in the vicinity of the wreck of the Peter Iredale. It is doubtful whether or not a better junction could be obtained north of the rocky beach line near Tillamook Head.

The U. S. Engineers periodically run cross sections of the spit and the high water line appearing on their surveys is determined in that manner. The writer was informed that "about the 10-foot contour" was used as the high water line. It is believed that this curve is appreciable about the high water line.

Time did not permit the re-survey of Swash Lake, but it is doubtful if any material change in its form has taken place since 1926.

The area south of the southern end of the shoal bay formed by Clatsop Spit is low and marshy, the high water line being extremely vague. A field inspection of this area was recently made with the idea of completing the line by sextant fixes. Such a method was found to be impossible and it is believed that the only satisfactory method would be to carry levels with the plane table.

GEOGRAPHIC NAMES are correct and complete as they appear upon the published chart.

LANDMARKS FOR CHARTS will be submitted under separate cover.

STATISTICS:

| | | |
|-----------------------------|---|------|
| Statute miles of shore line | = | 16.1 |
| Statute miles of railroad | = | 3.8 |

Sheet B - Lewis and Clark River to Point Adams. T-64812

COMPARISION WITH PREVIOUS SURVEYS: The area covered by sheet B was last surveyed in 1926, registry number 4263 and 4264, the former extending from the eastern limits of the sheet to the Skipanon Waterway and the later from there to the western limits of the sheet.

Sheet 4263: The agreement between these two sheets is fair, the 20 or 30 meter differences in the location of the shore line probably being due to the interpretation of the low marshy shore line by the two topographers.

The agreement between the two surveys in the vicinity of the Skipanon Waterway is not good, each jetty now appearing about 7 meters west of their original location. It has been determined that the jetties have not been rebuilt since they were first constructed. The bromide copy of the original sheet used in the comparision is somewhat distorted, and it may be that much of the apparent discrepancy is due to this cause.

Sheet 4264: With the exception of the Skipanon Waterway, as noted above, the agreement between sheet 4264 and the present sheet is considered very good. There is a slight difference in the representation of the large abandoned pier at Fort Stevens, but as the pier is in ruins it is possible that it now presents a different outline than it did in 1926.

charted
Skipanon R.
inside

LOW WATER LINE: In order to make the sheet complete, the lower-low water line was transferred to it from the smooth hydrographic sheet and the proper type of bottom inked in. The data for this was obtained from notes of the topographer and from notes in the sounding volumes.

GEOGRAPHIC NAMES are as they appear on chart No. 6151.

LANDMARKS FOR CHARTS will be submitted under separate cover.

STATISTICS:

| | | |
|-----------------------------|---|------|
| Statute miles of shore line | = | 13.2 |
| Statute miles of railroads | = | 5.4 |
| Statute miles of roads | = | 0.9 |

Sheet BB - Lewis and Clark River to Smith Point

T-6481b

COMPARISON WITH PREVIOUS SURVEYS: The area covered by sheet BB was last surveyed in 1926, registry No. 4263. In general, the agreement is excellent, the few differences in the shore line can most probably be attributed to a) artificial changes, b) recession of the shore line due to the wash of tugs or c) differences in interpretation of the high water line in the flat, marshy areas by the two topographers. The more important changes are:

1) A small bight in the vicinity of Smith Point has been filled in.

2) There is a considerable difference in the delineation of the high water line on the east side of Youngs River between Station Vic and Dad, probably due to interpretation, as the area is very flat and marshy.

3) The above is true in the vicinity of the south side of Youngs Bay between Vet and the highway bridge.

LOW WATER LINE: In order to make the sheet complete, the lower-low water line was transferred to it from the smooth hydrographic sheet and the proper type of bottom inked in. The data for this was obtained from notes of the topographer and recorded bottom specimens from the sounding volumes.

GEOGRAPHIC NAMES: Geographic names are as they appear upon the published chart with one addition:

Daggett Point

A well established local name

LANDMARKS FOR CHARTS will be submitted under separate cover.

STATISTICS;

| | | |
|-----------------------------|---|------|
| Statute miles of shore line | = | 13.2 |
| Statute miles of railroads | = | 0.9 |
| Statute miles of roads | = | 5.7 |

Sheet Y Lewis and Clark and Youngs Rivers. T-6482

COMPARISON WITH PREVIOUS SURVEYS: There are no previous surveys covering this area in its entirety. Sheet registry No. 4263, surveyed in 1926, shows about a mile of the Lewis and Clark. On the east side of this portion of the river the agreement is good. On the west side, the present survey shows that the bank has been washed away, south of o Sod, an average distance of about 50 meters. Only a few hundred meters of the west side of Youngs River is common to the two surveys.

LOW WATER LINE: In order to make the sheet complete, the lower - low water line was transferred to it from the smooth hydrographic sheet and the sandy, muddy or marshy portions inked in with their proper symbol, the data for which was obtained from notes of the topographer, and from bottom specimens as noted in the sounding volumes. The buoy appearing on the topographic sheet will be found to have identical locations with those on the smooth hydrographic sheet.. No buoys on this sheet. Nurn.

GEOGRAPHIC NAMES: In addition to the names appearing on the chart, ie., Lewis & Clark and Youngs Rivers, the following names are well established and it is recommended that they be accepted:

- 1) Walluski River, emptying into the Youngs River near Δ Nurnberg. already on charts 5902 & 6002 but not on 6151
- 2) Tucker Creek, emptying into the Youngs River Near Δ Oman

LANDMARKS FOR CHARTS will be submitted under separate cover

STATISTICS:

| | | |
|----------------------------|---|------|
| Statute miles of shoreline | = | 19.8 |
| Statute miles of roads | = | 2.1 |

Plane-table Positions
Sheet A

| Object or name of signal | Latitude | | | Longitude | | | Remarks |
|-----------------------------|----------|----|-------|-----------|----|-------|-----------------------------------|
| | ° | ' | m | ° | ' | m | |
| Observation Tower | 46 | 12 | 786✓ | 123 | 57 | 1089✓ | fire control tower |
| J-1 USE | 46 | 12 | 1576✓ | 123 | 58 | 158✓ | end of groin |
| J-2 USE | 46 | 13 | 239✓ | 123 | 58 | 1126✓ | end of groin |
| Bar | 46 | 13 | 971✓ | 123 | 59 | 753✓ | marked hydrographic station |
| Black Tank USE | 46 | 13 | 1067✓ | 124 | 00 | 896✓ | low black wooden tank on jetty |
| Dolphin | 46 | 12 | 1619✓ | 123 | 58 | 810✓ | |
| Sea Thrush | 46 | 14 | 887✓ | 124 | 01 | 632✓ | mast of portion of wreck |
| Dolphin | 46 | 13 | 362✓ | 123 | 59 | 549✓ | |
| Ire | 46 | 10 | 1596✓ | 123 | 58 | 1009✓ | marked hydrographic station |
| Peter Iredale | 46 | 10 | 1318✓ | 123 | 58 | 1021✓ | bowsprit of wreck |

scaled by RWK
ck KMcB

✓RK

Plane-table Positions
Sheet B

| Object or name of signal | Latitude | | | Longitude | | | Remarks |
|-----------------------------|----------|----|-------|-----------|----|-------|--------------------------------|
| | ° | ' | m | ° | ' | m | |
| Oak | 46 | 10 | 286' | 123 | 54 | 1254' | Mill stack |
| East gable barn | 46 | 09 | 1818' | 123 | 54 | 562' | |
| East gable house | 46 | 10 | 227' | 123 | 54 | 631' | |
| Flavel Rear Range | 46 | 11 | 1209' | 123 | 55 | 1265' | |
| Flavel Front Rge | 46 | 11 | 1159' | 123 | 55 | 684' | |
| Tansy Pt Rear | 46 | 11 | 533' | 123 | 55 | 874' | |
| Range | | | | | | | |
| Tansy Pt Front | 46 | 11 | 585' | 123 | 55 | 456' | |
| Range | | | | | | | |
| Rede | 46 | 12 | 41' | 123 | 56 | 394' | River gable red shack |
| Gar | 46 | 12 | 285' | 123 | 56 | 732' | East gable boat house |
| Monument | 46 | 12 | 377' | 123 | 57 | 262' | Boundry monument Fort Stevens |
| Stev | 46 | 12 | 644' | 123 | 56 | 1271' | Marked hydrographic signal |
| Nap | 46 | 09 | 1766' | 123 | 53 | 1237' | do |
| Oil USE | 46 | 10 | 1553' | 123 | 53 | 884' | Stack fish-oil house |
| Observation tower | 46 | 12 | 786' | 123 | 57 | 1085' | Coast Guard tower, Ft. Stevens |
| Tall stack USE | 46 | 10 | 598' | 123 | 54 | 1018' | Mill stack, Warrenton |
| Front FR USE | 46 | 10 | 33' | 123 | 54 | 1100' | Skipanon waterway front range |
| Middle Stack USE | 46 | 09 | 1774' | 123 | 55 | 75' | Middle of three mill stacks |
| Skipanon Water- | 46 | 11 | 119' | 123 | 54 | 540' | |
| way west light | | | | | | | |
| Cable | 46 | 12 | 685' | 123 | 57 | 37' | Cable crossing sign |
| Prominent dead | 46 | 09 | 1376' | 123 | 52 | 773' | |
| tree | | | | | | | |

scaled by RWK
ok by KMcB
/ D, RUC.

Plane-table Positions
Sheet BB

| Object or name of signal | Latitude | | | Longitude | | | Remarks |
|-----------------------------|----------|----|--------|-----------|----|--------|--|
| | ° | ' | m | ° | ' | m | |
| Kab | 46 | 09 | 1386 ✓ | 123 | 50 | 04 ✓ | north gable of barn |
| Vic | 46 | 09 | 1048 ✓ | 123 | 48 | 544 ✓ | marked hydro. station |
| Smith | 46 | 11 | 188 ✓ | 123 | 51 | 881 ✓ | do |
| Bay | 46 | 10 | 1225 ✓ | 123 | 51 | 171 ✓ | do |
| Elk | 46 | 10 | 1541 ✓ | 123 | 51 | 731 ✓ | gable red warehouse |
| Dig | 46 | 10 | 1366 ✓ | 123 | 51 | 424 ✓ | gable shed |
| Cur | 46 | 10 | 991 ✓ | 123 | 50 | 1196 ✓ | gable of shack |
| Doc | 46 | 10 | 428 ✓ | 123 | 49 | 294 ✓ | end of pier (SW corner) marked by sq of gal. iron |
| Not | 46 | 09 | 1229 ✓ | 123 | 49 | 941 ✓ | north gable barn |
| Jam | 46 | 09 | 1488 ✓ | 123 | 48 | 1015 ✓ | pile |
| Her | 46 | 09 | 1256 ✓ | 123 | 48 | 1045 ✓ | pile |
| Cod | 46 | 09 | 995 ✓ | 123 | 48 | 1077 ✓ | pile |
| Mid | 46 | 09 | 745 ✓ | 123 | 48 | 1116 ✓ | pile |
| Wun | 46 | 09 | 373 ✓ | 123 | 49 | 108 ✓ | pile |

scaled by RWK
ck by KMcB

by RWK.

Plane-table Positions
Sheet Y

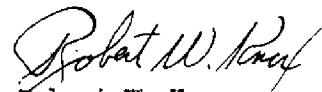
| Name of signal or object | Latitude | | | Longitude | | | Remarks |
|-----------------------------|----------|----|------|-----------|----|------|-------------------------------|
| | ° | ' | m | ° | ' | m | |
| Pi | 46 | 09 | 190 | 123 | 51 | 674 | center old swing-bridge pier |
| Dyer | 46 | 08 | 1167 | 123 | 51 | 936 | marked hydrographic station |
| Dog | 46 | 07 | 406 | 123 | 52 | 677 | black tank |
| River gable red barn | 46 | 07 | 672 | 123 | 51 | 771 | |
| River gable unpainted barn | 46 | 06 | 1330 | 123 | 51 | 319 | |
| Prominent dead tree | 46 | 06 | 842 | 123 | 52 | 19 | |
| River gable red barn | 46 | 07 | 107 | 123 | 49 | 370 | |
| Span | 46 | 06 | 1164 | 123 | 47 | 942 | marked hydrographic station |
| Guk | 46 | 06 | 1065 | 123 | 48 | 252 | north gable barn |
| Wal | 46 | 08 | 1478 | 123 | 47 | 624 | marked hydrographic station |
| Bar | 46 | 06 | 892 | 123 | 48 | 871 | east gable barn |
| Flagpole | 46 | 09 | 178 | 123 | 47 | 910 | on grounds of County Farm |
| Tat | 46 | 06 | 1081 | 123 | 47 | 1008 | long span crossing power pole |
| Kus | 46 | 09 | 300 | 123 | 51 | 850 | cable crossing sign |
| Fad | 46 | 09 | 236 | 123 | 51 | 555 | cable crossing sign |
| Gam | 46 | 09 | 21 | 123 | 51 | 701 | river gable small shack |
| Uno | 46 | 07 | 841 | 123 | 52 | 682 | down stream gable red shack |
| Win | 46 | 07 | 99 | 123 | 51 | 571 | window in gable of house |
| North gable barn | 46 | 06 | 600 | 123 | 51 | 708 | |

scaled by RWK
ck by KMcB


by Rut.

APPROVAL OF CHIEF OF PARTY

Topographic sheets A, B, BB and Y have been inspected and approved by me. The field work was done under my occasional supervision; the office work in part under by supervision and in part by myself. No additional work is considered necessary.



Robert W. Knox,
H. & G. Eng'r,
Chief of Party.



Remarks

Decisions

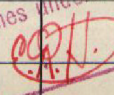
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| 3 | <i>Geog. Names.</i> | |
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GEOGRAPHIC NAMES

Survey No. 6480

| GEOGRAPHIC NAMES | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|----|--|
| Survey No. 6480 | | | | | | | | | | | |
| Name on Survey | | | | | | | | | | | |
| | A | B | C | D | E | F | G | H | K | | |
| <u>Pacific Ocean</u> | * | | ✓ | | | | | | | 1 | |
| <u>Clatsop Spit</u> | * | | ✓ | — | ✓ | | | ✓ | | 2 | |
| <u>Columbia River</u> | * | ✓ | ✓ | — | ✓ | | | ✓ | | 3 | |
| <u>Fort Stevens</u> | | | ✓ | — | ✓ | ✓ | | ✓ | * | 4 | |
| <u>Pt. Adams</u> | * | | | — | ✓ | | | | | 5 | |
| <u>South Jetty</u> | * | | | ✓ | | | | | | 6 | |
| <u>Jetty Sands</u> | * | | | | | | | ✓ | | 7 | |
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Names underlined in red approved

by 

on 6/8/36

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Names underlined in red approved
by *[Signature]* on 6/8/36

Remarks

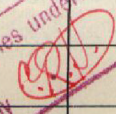
Decisions

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GEOGRAPHIC NAMES

Survey No. 6481-A

| GEOGRAPHIC NAMES | | | | | | | | | | |
|-------------------------|--|---|---|---|---|---|---|---|---|----|
| Survey No. 6481-A | | | | | | | | | | |
| Name on Survey | <div>On Chart No. 6151</div> <div>On previous survey No. 6152</div> <div>On U. S. quadrangle Maps</div> <div>From local information</div> <div>On local Maps</div> <div>P. O. Guide or Map</div> <div>Rand McNally Atlas</div> <div>U. S. Light List</div> | | | | | | | | | |
| | A | B | C | D | E | F | G | H | K | |
| <u>Columbia River</u> ✓ | * | ✓ | | ✓ | ✓ | + | ✓ | ✓ | ✓ | 1 |
| <u>Pt. Adams</u> ✓ | * | | | ✓ | ✓ | + | ✓ | | ✓ | 2 |
| <u>Hammond</u> ✓ | * | | | ✓ | ✓ | ✓ | ✓ | | ✓ | 3 |
| <u>Tansy Pt.</u> ✓ | * | | | | ✓ | | | ✓ | | 4 |
| <u>Warrenton</u> ✓ | * | | ✓ | | ✓ | ✓ | ✓ | | ✓ | 5 |
| <u>Oregon</u> ✓ | * | | ✓ | | ✓ | | ✓ | | ✓ | 6 |
| <u>Fort Stevens</u> * | * | | ✓ | | | | ✓ | | ✓ | 7 |
| <u>Skipanon River</u> * | * | | | | ✓ | | | | ✓ | 8 |
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Names underlined in red approved
by  on 6/9/36

M 234

Names underlined in red approved
by *[Signature]* on 6/9/36

Remarks

Decisions

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| 1 | | |
| 2 | | |
| 3 | has (USGS) Young River | <u>Youngs</u> |
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GEOGRAPHIC NAMES

Survey No. 6481-B

| Name on Survey | A On Chart No. 6151 | B On previous survey No. 55975-6 | C On U. S. quadrangle Maps 11445 | D From local information | E On local maps 5902, 6002 | F P. O. Guide or Map | G Rand McNally Atlas | H U. S. Light List | I U. S. Geog. Names | J 6481-B |
|--------------------------------|---------------------------|--|--|--------------------------------|----------------------------------|-------------------------|-------------------------|-----------------------|------------------------|-------------|
| <u>Oregon</u> ✓ | * | | | | ✓ | | ✓ | ✓ | ✓ | 1 |
| <u>Smith Point</u> ✓ | * | | | ✓ | ✓ | | | ✓ | ✓ | 2 |
| <u>Youngs River</u> ✓ | * | | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | 3 |
| <u>Daggett Point</u> ✓ | | ✓ | | ✓ | | | | | | * 4 |
| <u>Youngs Bay</u> ✓ | * | | | ✓ | ✓ | | ✓ | ✓ | ✓ | 5 |
| <u>Lewis and Clark River</u> ✓ | * | | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | 6 |
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Names underlined in red appear
by C.R.D. on 6/9/36

Remarks

Decisions

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GEOGRAPHIC NAMES

Survey No. 6482

| GEOGRAPHIC NAMES | | | | | | | | | | |
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| Survey No. 6482 | | | | | | | | | | |
| Name on Survey | On Chart No. 6/51 | | | | | | | | | |
| | A | B | C | D | E | F | G | H | K | U. S. Light List |
| | On previous survey No. H 5975-6 | | | | | | | | | |
| | On U. S. quadrangle Maps | | | | | | | | | |
| | From local information | | | | | | | | | |
| | Charts 5902-6002 | | | | | | | | | |
| | P. O. Guide or Map | | | | | | | | | |
| | Rand McNally Atlas | | | | | | | | | |
| | Or. GEOG Names T6582 | | | | | | | | | |
| Lewis and Clark River ✓ | * | ✓ | ✓ | ✓ | | | ✓ | | ✓ | 1 |
| Youngs River ✓ | * | ✓ | ✓ | ✓ | | | ✓ | | ✓ | 2 |
| Walluski River ✓ | | ✓ | | ✓ | * | | | | ✓ | 3 |
| Tucker Creek ✓ | | ✓ | | ✓ | | | | | ✓ | 4 |
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Names underlined in red approved by [Signature] on 6/9/36

Names underlined in red approved
by *[Signature]* on 6/9/36

6480-2

FORM M-238

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT
~~PHOTOGRAPH~~

~~NO. 11~~

No. T

6480
6481-a
6481-b
6482

received MAY 16 1950
registered MAY 22 1950
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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C. K. Green

T

REVIEW OF TOPOGRAPHIC SURVEY No. 6480

Title (Par. 56) *Clatsop Spit to Point Adams, Oregon*Chief of Party *R.W. Knox* Surveyed by *R.S. Thompson* Inked by *R.W. Knox*Ship *Field Party #9* Instructions dated *Feb 26, 1935* Surveyed in *July 1935*

1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 7, 8, 9, 13, 16.) *Failed to put date of triangulation stations on sheet. They do not appear in the 1935 list of geographic positions*
2. The character and scope of the survey satisfy the instructions. ✓
3. The control and closures of traverses were adequate. (Par. 12, 29.) ✓
4. ~~The amount of vertical control that the Manual specifies for contours-formlines was accomplished. (Par. 18, 19, 20, 21, 22, 23.)~~
5. ~~The delineation of contours-formlines is satisfactory. (Par. 49, 50.)~~
6. There is sufficient control on maps from other sources that were transmitted by the field party to enable their application to the charts. (Par. 28.) *None Submitted*
7. High water line on marshy ~~and mangrove~~ coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.) ✓
8. The representation of low water lines, ~~reefs, coral reefs and rocks,~~ and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41.) ✓
9. ~~Reefs and~~ other important details shown on previous surveys and on the chart were verified. (Par. 25, 26, 27.)

See reverse side

10. ~~The span, draw and clearance of bridges are shown. (Par. 16c.)~~
11. ~~Locations and elevations of summits are given. (Par. 19, 51.)~~
12. ~~The tree line was shown on mountains. (Par. 16g.)~~

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Use reverse side for extending remarks.

Paragraph 9

T335 (1851), T317 (1850), T1112 (1868)
H250 and H273 (1851)

These former surveys were very general and are of no value in checking the present survey. T6480 supersedes these surveys in part.

T4250, T4264 (1926)

These two surveys of 1926 cover the present survey. They are adequately compared on Page 3 of the Descriptive Report. As stated, the detail to Swash Lake was not resurveyed and must be accepted as shown on the 1926 survey. The Clatsop Spit is changing very fast according to a comparison of T4250 and T4264 with the present survey.

T6480 supersedes T4250 and T4264 in part.

Chart 5902 is in good agreement with the present survey, considering the large difference in scale.

13. The descriptive report covers all details listed in the Manual, in so far as they apply to this survey. (Par. 64, 65, 66, 67.) ✓
14. ~~The descriptive report also contains additional information required in aero-topography relative to type of photographs, method of compilation and type of ground control.~~
15. The descriptions of recoverable stations and references to shore line were accomplished on Form 524. (Par. 29, 30, 57, 67 except scaling of IMs and DPs, 68.) *None Submitted*
16. A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.) ✓
17. The magnetic meridian was shown and declination was checked. (Par. 17, 52.) *Declination error +53'* * * Meridian on sheet corrected for declination error. G.R. Mar 2, 1938.
18. The geographic datum of the sheet is *N.A. 1927 (Unadjusted)* and the reference station is correctly noted. (Par. 34.)
Values from field computations used.
19. Junctions with contemporary surveys are adequate.
Joins T 6481a (1935) on the East
20. Geographic names are shown on the sheet and are covered by the Descriptive report. (Par. 64, 66k.) ✓
21. The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46, 47, 48, 49, 50.) ✓
22. No additional surveying is recommended. ✓
23. The Chief of Party inspected and approved the sheet and the descriptive report after review by ✓

24. Remarks:

Reviewed in office by

Chas. R. Bush Jr. June 23, 1926

Examined and approved:

E. K. Green
Chief, Section of Field Records

Fred. L. Peacock
Chief, Section of Field Work

L. O. Polk
Chief, Division of Charts

W. H. Wade
Chief, Division of Hyd. and Top.

REVIEW OF TOPOGRAPHIC SURVEY No. 6481a

Title (Par. 56) *Point Adams to Lewis & Clark River, Oregon*Chief of Party *R.W. Knox* Surveyed by *R.S. Thompson* Inked by *K. McBean*Ship *Field Party #9* Instructions dated *Feb. 26, 1935* Surveyed in *June 1935*

1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 7, 8, 9, 13, 16.) ✓
2. The character and scope of the survey satisfy the instructions. ✓
3. The control and closures of traverses were adequate. (Par. 12, 29.)
No closures listed
4. ~~The amount of vertical control that the Manual specifies for contours-formlines was accomplished. (Par. 18, 19, 20, 21, 22, 23.)~~
5. ~~The delineation of contours-formlines is satisfactory. (Par. 49, 50.)~~
6. There is sufficient control on maps from other sources that were transmitted by the field party to enable their application to the charts. (Par. 28.) *None Submitted*
7. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.) ✓
8. The representation of low water lines, reefs, coral reefs and rocks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41.) ✓
9. Rocks and other important details shown on previous surveys and on the chart were verified. (Par. 25, 26, 27.)
See Reverse Side
10. The span, draw and clearance of bridges are ^{not} shown. (Par. 16c.)
11. ~~Locations and elevations of summits are given. (Par. 19, 51.)~~
12. ~~The tree line was shown on mountains. (Par. 16g.)~~

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Use reverse side for extending remarks.

Paragraph 9

H250 - H273 (1851)

These two surveys are primarily hydrographic surveys and are of very little value in making a comparison with the present survey. The scale of these two surveys is 1:20,000 where as the present survey is on 1:10,000. Details have changed materially in the 84 years between the two surveys of 1851 and T6481-a, many of them man-made.

T317 (1850 and T335 (1851)

These two former surveys are very general and are of little value in making a comparison with the present survey. There are many man-made changes. An inspection would indicate that the South shore of the Columbia River had receded somewhat in spots. At other points mouths of streams have been entirely closed off.

T1123 (1868)

This survey covers only a very minute portion of East end of the present survey. The shore apparently has receded a little and the L.W. line has changed by having receded also.

T1112 (1868)

This survey is of very little value in making a comparison with the present survey. Practically the entire extent of this survey has been changed or affected by man-made changes. The Tansy and Alder Creeks have apparently been closed off. This is due to changes along the Skipanon Waterway. This construction also affected the area East and South of the Waterway. The H. W. line of that portion of Pt. Adams shown on the present survey has evidently built out somewhat. It is difficult to make an accurate comparison due to the lack of control on the T1112 (1868).

T4263 (1926) and T4264

The comparisons of these two surveys with the present survey is considered adequate. The principle changes are the Skipanon jetties and changes affected by these jetties.

T6481-a supersedes H250, H273, T317, T335, T1123, T1112, T4263 and T4264.

A comparison of the present survey with chart 6151 shows no important changes other than discussed under T4264-4 above.

13. The descriptive report covers all details listed in the Manual, in so far as they apply to this survey. (Par. 64, 65, 66, 67.) ✓
14. ~~The descriptive report also contains additional information required in aero-topography relative to type of photographs, method of compilation and type of ground control.~~
15. The descriptions of recoverable stations and references to shore line were accomplished on Form 524. (Par. 29, 30, 57, 67 except scaling of DMs and DPs, 68.) *None Submitted*
16. A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.) ✓
17. The magnetic meridian was shown and declination was checked. (Par. 17, 52.) *No magnetic meridian shown (value for one tri sta. also given in D.R. (page 2))*
18. The geographic datum of the sheet is *N.A. 1927 (Unadjusted)* and the reference station is correctly noted. (Par. 34.)
19. Junctions with contemporary surveys are adequate. ✓
Joins T 6480 (1935) on the West Joins T 6484 (1935) on the South
Joins T 64816 (1935) on the East
20. Geographic names are shown on the sheet and are covered by the Descriptive report. (Par. 64, 66k.) ✓
21. The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46, 47, 48, 49, 50.) ✓
22. No additional surveying is recommended. *Several signals in the water should be cleared up*
23. The Chief of Party inspected and approved the sheet and the descriptive report ~~after review by~~ ✓
24. Remarks:

Reviewed in office by *Chas. R. Bush Jr.* July 3, 1936

Examined and approved:

C. H. Green.
 Chief, Section of Field Records

Fred. L. Peacock
 Chief, Section of Field Work

L. O. Polk.
 Chief, Division of Charts

G. H. Hude
 Chief, Division of Hyd. and Top.

REVIEW OF TOPOGRAPHIC SURVEY No. 64816(1935) Field No. BBTitle (Par. 56) Lewis + Clark River to Smith Point, Columbia River, Oregon.Chief of Party R.W. Knox Surveyed by R.S. Thompson Inked by K. McBeanShip Instructions dated Feb. 26, 1935 Surveyed in June 1935
(R.W. Knox)

1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 7, 8, 9, 13, 16.) ✓
2. The character and scope of the survey satisfy the instructions. ✓
3. The control and closures of traverses were adequate. (Par. 12, 29.) ✓
4. The amount of vertical control that the Manual specifies for -contours-formlines- was accomplished. (Par. 18, 19, 20, 21, 22, 23.)
except that the contour interval was not indicated on the Title Sheet. ✓
5. The delineation of -contours-formlines- is satisfactory. (Par. 49, 50.) ✓
6. There is sufficient control on maps from other sources that were transmitted by the field party to enable their application to the charts. (Par. 28.) None submitted. ✓
7. High water line on marshy ~~and mangrove~~ coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.) ✓
8. The representation of low water lines, ~~reefs, coral reefs and rocks, and legends pertaining to them~~ is satisfactory. (Par. 36, 37, 38, 39, 40, 41.) ✓
9. ~~Rocks and other~~ ^{offshore} important details shown on previous surveys and on the chart were verified. (Par. 25, 26, 27.) ✓
See note on back
10. The span, draw and clearance of bridges are ^{not} shown. (Par. 16c.) ✓
Values not listed.
11. ~~Locations and elevations of summits are given.~~ (Par. 19, 51.)
12. ~~The tree line was shown on mountains.~~ (Par. 16g.)

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Use reverse side for extending remarks.

Paragraph 9, continued.

- a. T-4263(1926) shows a sunken wreck and an abandoned treacle (both charted) in the vicinity of lat. $46^{\circ}10.9'$, long. $123^{\circ}49.7'$ which are not shown on the present topographic or hydrographic sheet. The treacle falls within a mud flat area on the present survey. The wreck falls in depths of 6 to 32 feet on H-5976(1935) and between sounding lines spaced 50 m. apart. There is no certainty that the wreck has been removed nor that the treacle has entirely disappeared. A definite statement regarding the present status of these features has been requested from the field party.

These features extant and have therefore been carried forward.
(See letter attached to D.R. of H-5976). 10/1/36 H.W.M.

13. The descriptive report covers all details listed in the Manual, in so far as they apply to this survey. (Par. 64, 65, 66, 67.) ~~except that the errors of closure were not listed.~~ ✓
14. ~~The descriptive report also contains additional information required in aero-topography relative to type of photographs, method of compilation and type of ground control.~~
15. The descriptions of recoverable stations and references to shore line were accomplished on Form 524. (Par. 29, 30, 57, 67 except scaling of DMS and DPs, 68.) ~~Not accomplished.~~ ✓
16. A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.) ✓
17. The magnetic meridian was ^{not} shown and ~~declination was checked.~~ (Par. 17, 52.) However, values at station ^A Hiway are listed in the Descriptive Report (page 2). ✓
18. The geographic datum of the sheet is **North American 1927** ^(Unadjusted) and the reference station is correctly noted. (Par. 34.) ✓
19. Junctions with contemporary surveys are adequate.
 ~~The junction on the NW will be considered when that work is received from the field.~~ ✓
20. Geographic names are shown on the sheet and are covered by the Descriptive report. (Par. 64, 66k.) ✓
21. The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46, 47, 48, 49, 50.) ✓
22. No additional surveying is recommended. ✓
23. The Chief of Party inspected and approved the sheet and the descriptive report ~~after review by~~ ✓

24. Remarks:

See Note on back.

Reviewed in office by

Harold W. Murray

June 26, 1936

Examined and approved:

C. K. Green
Chief, Section of Field Records

L. O. Lobbert
Chief, Division of Charts

Fred. L. Peacock
Chief, Section of Field Work

Glade
Chief, Division of Hyd. and Top.

Paragraph 24, continued.

- a. The character of several features such as dolphins and remains of old docks or wharves were not indicated by descriptive notes. However, a number of these identical features were described on H-5976(1935) and T-4263(1926). In order to complete the present survey, these descriptions have been added in black.
- b. Aids to navigation will be considered in the series of H-5975(1935) and H-5976(1935).

REVIEW OF TOPOGRAPHIC SURVEY No. 6482(1935) Field No. Y

Title (Par. 56) Lewis + Clark and Youngs Rivers, Columbia River, OregonChief of Party R.W. Knox Surveyed by R.S. Thompson Inked by K. McBeanShip Instructions dated Feb. 26, 1935 Surveyed in June-July 1935
(R.W. Knox)

1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 7, 8, 9, 13, 16.) ✓
2. The character and scope of the survey satisfy the instructions. ✓
3. The control and closures of traverses were adequate. (Par. 12, 29.) ✓
4. The amount of vertical control that the Manual specifies for -contours-formlines- was accomplished. (Par. 18, 19, 20, 21, 22, 23.)
except that the contour interval was not indicated on the title sheet.
5. The delineation of -contours-formlines- is satisfactory. (Par. 49, 50.) ✓
6. There is sufficient control on maps from other sources that were transmitted by the field party to enable their application to the charts. (Par. 28.) No maps submitted. ✓
7. High water line on marshy ~~and mangrove~~ coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.) ✓
8. The representation of low water lines, ~~reefs, coral reefs and rocks,~~ and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41.) ✓
9. ~~Rocks and other~~ ^{offshore} important details shown on previous surveys and on the chart were verified. (Par. 25, 26, 27.) ✓
10. The span, draw and clearance of bridges are ^{not} shown. (Par. 16c.)
values not listed. ✓
11. ~~Locations and elevations of summits are given.~~ (Par. 19, 51.)
12. ~~The tree line was shown on mountains.~~ (Par. 16g.)

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Use reverse side for extending remarks.

13. The descriptive report covers all details listed in the Manual, in so far as they apply to this survey. (Par. 64, 65, 66, 67.) *except that the errors of closure were not listed.* ✓
14. ~~The descriptive report also contains additional information required in aero-topography relative to type of photographs, method of compilation and type of ground control.~~
15. The descriptions of recoverable stations and references to shore line were accomplished on Form 524. (Par. 29, 30, 57, 67 except scaling of DMS and DPs, 68.) *Not submitted on Form 524.* ✓
16. A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.) ✓
17. The magnetic meridian was shown and declination was checked. (Par. 17, 52.) *An error of +53 minutes was found (See D.R. page 2). The meridians on the smooth sheet ^{were} corrected in the office* ✓
18. The geographic datum of the sheet is *North American 1927 (unadjusted)* and the reference station is correctly noted. (Par. 34.) ✓
19. Junctions with contemporary surveys are adequate. ✓
20. Geographic names are shown on the sheet and are covered by the Descriptive report. (Par. 64, 66k.) ✓
21. The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46, 47, 48, 49, 50.) ✓
22. No additional surveying is recommended. ✓
23. The Chief of Party inspected and approved the sheet and the descriptive report ~~after review by~~ ✓
24. Remarks:

Reviewed in office by

Harold W. Murray

June 27, 1936

Examined and approved:

E. H. Green
Chief, Section of Field Records

L. O. Polburt
Chief, Division of Charts

Fred. L. Peacock
Chief, Section of Field Work

G. H. de
Chief, Division of Hyd. and Top.