10429

10429

TA	L
Form	aur

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoraline (Photogrammetric)
Field No. Office No. P-101.29
Fleta No. Oj)ice No
LOCALITY
State
General locality Columbia River
Locality Juniper Canvon
19_56_
CHIEF OF PARTY
V. Ralph Sobieralski, Portland Photogrammetric Office
LIBRARY & ARCHIVES

JUN 6 1960

DATE ..

сомм- вс 61300

DESCRIPTIVE REPORT - DATA RECORD

T = 10429

Project No. (II): Ph-63

Quadrangle Name (IV):

Field Office (II): Umatilla, Oregon

Chief of Party: V. Ralph Sobieralski Unit Chief: Leonard F. Van Scoy

Photogrammetric Office (III): Portland, Oregon

Officer-in-Charge: V. Ralph Sobieralski

Instructions dated (II) (III):

20 March 1956

(Field & Office)

Copy filed in Division of

Photogrammetry (IV)

Method of Compilation (III):

Graphic

Manuscript Scale (III): 1:15,000

Stereoscopic Plotting Instrument Scale (III):

Date received in Washington Office (IV): NUG 21 1958

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): 18 Aug 1959

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III):

N.A. 1927

Vertical Datum (III):

Mean cea level except as follows: Elevations chown as (25) refer to meen high water Elevations-shown-as (5) refer to sounding-datum mean low water or mean lower-low water-Elevations refer to Normal Pool level of McNary Dam Reservoir which is 340 ft. above M.S.L.

Reference Station (III): WALL (USE) 1942

Lat.: 450 581 31.838"

Long.:

1180 591 50.785"

Adjusted

(983.0m)

(1093.3m)

Unadjusted

Plane Coordinates (IV):

State:

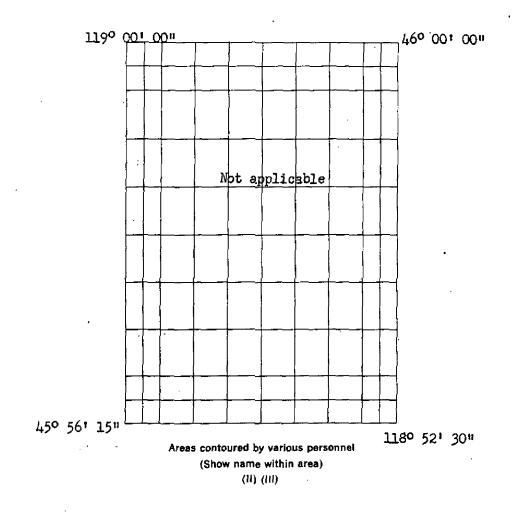
Zone:

Y≈

X=

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office, or ((V) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.



COMM- DC- 57842

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): Leonard F. Van Scoy

Charles H. Bishop

Date: Summer 1956

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location): Spot locations at intricate places were made in the field. For the most part the normal pool level of 340 ft. above M.S.L. was delineated in the office from photographs taken on 9-23-54 when the pool was at that level.

Projection and Grids ruled by (IV):

Date:

Projection and Grids checked by (IV):

Date:

Control plotted by (III): J. E. Deal

Sept. 1956 Date:

Control checked by (iii): L. L. Graves

Date: Sept. 1956

Radial Plot or Stereoscopic

J. L. Harris & J. E. Deal

Sept. 27, 1956 Date:

Control extension by (III):

Planimetry

Date:

Stereoscopic Instrument compilation (III):

Contours

Date:

Manuscript delineated by (III): J. L. Harris - Compilation

L. L. Graves - Scribing

C. C. Harris - Stick-up

Date: 11-2-56

5-6-57 8-30-57

Photogrammetric Office Review by (III): J. E. Deal

Date: 9-12-57

Elevations on Manuscript

Date:

checked by (II) (III):

COMM- DC- 57842

FORM **181c** (4-23-54)

DESCRIPTIVE REPORT - DATA RECORD

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

Camera (kind or source) (III): 9-lens - C&GS - Focal length 8.25 inches

PHOTOGRAPHS (III)

Number

Date

Time

Scale

water level of pool

46178 thru 46180 9-26-54

13:30

1:15,000

340 ft. above M.S.L.

Tide (III)

Reference Station:

Not applicable

Subordinate Station: Subordinate Station:

Washington Office Review by (IV):

Final Drafting by (IV);

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 25

Shoreline (More than 200 meters to opposite shore) (III): 4

Shoreline (Less than 200 meters to opposite shore) (III): None

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 3

Recovered: 3

Identified: 3

Number of BMs searched for (II):

Recovered:

Identified:

Ratio of Mean

Date:

Date:

Date:

Date:

Range

Ranges

Spring

Range

Number of Recoverable Photo Stations established (III): 2

Number of Temporary Photo Hydro Stations established (III): 1*

Remarks:

* This station has topo. name and is of topo. station accuracy. Form 524 was not submitted in accordance with letter clarifying instructions. The station name and description is listed under Item 49: Notes to the Hydrographer.

COMM- DC- 57842

Summary to accompany shoreline manuscript T-10429

T-10429 is one of eighteen shoreline surveys of Project PH-63 (27020). The project is located along the Columbia River from McNary Dam northward to Pasco, Wash. and was initiated to aid in the construction of new nautical charts. Subject survey falls in the vicinity of Juniper Canyon, Oregon.

Instructions are dated of March 1956 and were sent to the Portland Photogrammetric Office with the responsibility of field work and office compilation. The field work was done during the summer of 1956, the plot, compilation and scribing during 1956 and 1957. Only minor changes and additions were required during Washington Office Review.

Other map coverage of subject area is by the U.S. Geological Survey at the scale of 1:125000 based on surveys of 1929-1931. Scale and date (prior to the flooding of the McNary Reservoir) aided little if anything in the construction of these surveys.

A cronar film positive at the compilation scale of 1:15000 and the Descriptive Report will be registered and filed in the Bureau Archives.

June 1959

FIGLD INCRECTION REPORT

(1956 Season)

hap Handweripts T-10425 thru T-10432 and T-11318

Project 27020

2. Areal Field Inspections

The field inspection of this portion of the project was inspected on the nine-lans photographs furnished by the doast and Geodetic Survey. While some of the prints lask a desired amount of contrast the photos were considered suitable for mapping purposes. The physical inspection of both photographs and the terrain was conducted from a motor vehicle where roads paralited and by small boat and foot where vehicular travel was prehibitive.

The error can be considered semi-arid. Near the west limits of the project some of the lands along the river are irrigated, but the major portion of cultivated land is tilled by dry land farming.

The Columbia hiver flows east-west through this area. Hear the town of Unutilla, Oregon is the helicity das, this impounds the river to form a reservoir that is referred to as Mchary hool as an official name has not been designater. The area is served by a heavy duty two lane highway (U.S. Highway 395) that runs east-west, paralleling the river along the south shore. Three railroads, the Union hacific calibration for the Spokane, fortland and Scattle Railway, and the Northern facific Railway, operate through this area on tracks that run along both sides of the Columbia Fiver.

Hat Rook trate Park, situates on the south bank of Refary Poel, about nine miles east of Unatilla, Tregen, and Wallula Lists Park at the mouth of the Palia Walla River and two stats parks found in the area.

Tug and barge traffic as well as pleasure craft ply the waters of MoNary Pool. Portions of the pool perso as Game hange frees and Wild Life Management Areas.

McMary lam maintains the pool at a navigable depth and produces hydro-electric power. It includes a navigation lock, and two fish ladders to permit passage of anadromous fish.

3. Horizontal Control:

Two new supplemental horizontal control stations were established by traingulation methods, stations JIholb 1956 and Pakko A 1956. Third

order accuracy was obtained. These stations were needed to fulfill photogrammetric requirements.

Horisontal control station STRAUE 1947, a required station for control of compilation, was not identified because it was beyond the limits of adequate photo coverage.

Triangulation station YACA khast 1950 (Uda) was found in the general position as described for station YACA (Uda) 1942. Correspondence with the Office of the District Engineer, Corps of Engineers, U. S.: Army, Walla Walla, Washington produced a latter, dated 17 August 1956, a copy of which is attached to this report

4. Vertical Control:

Vertical control for use by stereoscopic instruments was not required.

Thenty-one bench marks established by the Coast and Geodetis Servey and the Corps of Engineers were recovered. Five were identified to serve as topographic stations.

5. Gontours and Drainage:

Contours not applicable. Frainage was indicated on field photographs. The drainage pattern was generally visible due to the lack of woodland cover. In some canyons the images of the dry intermittent stream beds appear on the photographs.

6. Woodland Cover:

The area is almost deveid of woodland cover, with the exceptions of willow, locust and similar deciduous trees that flourish in clumps along the river and irrigation canals, the rest of the un-cultivated land is generally covered with sage brush and wild grasses that are adapted to the semi-arid terriam.

7. Shoreline and Alongsbore Features:

A water surface elevation of 340 feet above mean sea level was established by the U. S. Engineers and is maintained at the face of MeMary Dam as the normal pool level. This is the level of the peel that appears on the nine-lens photographs and is the accepted mean highwater line.

The lew water line was not verified in the field. Due to the level of HeMary pool at the time of field inspection, this feature was fleeded. The Project Instructions require this feature to be delineated from Corps of Hagineers photographs. Small bedies of water that cannect to MeMary Peol and whose water survace elevations are controlled by the larger peol.

have been termed pools. Other small bodies of water not normally influenced by the large McNary Pool are denoted as ponds.

From Unatilla, Oregon, to the mouth of the Walla Walla River both sides of the Columbia River are lined with precipitous bluffs that appear to be of a basaltic composition. From the river they rise in a stair step fashion. Observed from a distance they give the illusion of giant terraces. At intervals the bluffs are gashed by canyons and dry washes. The tops of the bluffs on both sides of the river give way to high, relling plateaus that are generally cultivated as dry land grain fields.

There are few piers, wharves or landings along the river. Below MeMary Dam and up stream at Port Kelly there are grain elevators and storage tanks with conveyors to load cargo vessels for shipment to other river points.

There are five highway and three railroad bridges, one mavigation look and one power line crossing in the area. Clearances will be described under Item 12, Other Interior Features.

8. Offshore Features:

Except for a few small islands and rocks the area appears to be relatively free of offshere features.

9. Land Harks and Alder

Significant land marks for nautical charts will be described on form 567.

A system of lighted fixed aids, floating aids and day beacons have been erected and are being maintained along the Columbia River and MeMary Pool. Photo identification was made of the fixed aids to navigation.

10. Boundaries, Nonuments and Lines:

Two states, Washington and Oregon, are involved in the areal survey. They share a soumen east-west boundary that follows along the main channel of the Columbia River then sattward, overland, along or near the A6th Parallel. Along U. S. Highway 395 a white, wooden, state boundary marker was photo-identified to aid in determining the boundary in this area.

Solew, are exceppts from a letter from the Oregon State Magineer

"The tentative agreed upon coordinates of the Oregon-Machingten boundary in the vicinity of McMary Dam are as follows."

Point Manhor	North Latitude	West <u>Latitude</u>	Description of Location
175 176 177	45° 55' 03.1° 45° 55' 18.1° 45° 55' 51.37"	119° 26' 57.35" 119° 21' 48.12" 119° 19' 52.71"	
178	45° 55' 54.48"	119° 19' 39.28"	a point on the center line of the Umatilla Bridge at the center of north main span of said bridge.
177	45° 55° 59. 59 ° 45° 56° 10 .26 °	119° 19' 17.2° \\ 119° 17' 47.6°	a point on the axis of No / Nary Dam at the north face of the south non-ever flow section.
161	45° 56° 15.24"	1190 171 05.761	
162	450 561 24.05"	1190015' 21.40"	
143	45° 55' 58.60"	1190 13' 28.22"	
144	450 55 40.97"	1190011, 39.82	
185	45° 55' 40.26"	1199 101 05.04	
186 187	450 551 58.55	119°°07' 30.72° 119° 05' 27.12°	
100	45° 56' 34.25" 45° 57' 31.28"	1190 031 37.36	•
129	450 581 09.331	119° 01' 33.95"	
190	450 581 45.73"	1190 001 27.12*	
191	46* 00' 01.38*	1149 591 10.12"	questionable! determine cor. lat. A6 of point set en . boundary, then easterly along or near the A6° par. fellowing line mon. in 1864 to senter of Sacks Pives

11. Other Control:

Thirty-one marked, receverable topographic stations and thirtyeight un-nommented photo-tope stations were established, all stations being along the KoMary Poel to furnish control for future use in hydrographic surveys.

The following are the marked, receverable topographic stations established:

T-10425 - TML, Walla Walls River Light, MYKE

T-10426 - K 538 (USE), McMary Dem Upper Entrance Light, Mile 89-90 Range Rear Light, Mile 89-90 Reage Front Light

T-10427 - None

7-10428 - BABS, Boovert Daybeacon No. 1, Beovert Light, Boovert Daybeacon No. 3, TOP (USE), Juniper Light

T-10429 - CAJON (USE), Bull Run Light

T-10430 - LONE, TRIO, TOPO 41/89.0, PLUG, BETH, SHED, PETE, CLEO

T-10431 - BM C 378 1943, BM M 378 1943, BM P 27 1927, Hat Book

Light

T-10432 - DORA, MORA

T-11318 - None

T-10430, west of - DILL, CLEM

Gerps of Engineers stations TOP and CAJON were recovered and identified as tepegraphic stations as no information could be found in the horizontal centrol data concerning these stations.

The names of the un-monumented photo-tope stations will be listed under Notes to the Hydrographer.

12. Other Interior Festures:

Highways and roads were classified on photographs as described under Section 5441, Topographic Manual.

The area along the river from Unatilla eastward to the mouth of the Walla Walla River is generally barren with little alongshore culture or habitation.

Clearances for bridges, power lines and navigation locks are listed below.

Unetilla County Toll Bridge over Columbia River

Vertical Clearance 90 feet with Columbia River datum at 247.7 feet
Eorisontal clearance - north span 335 feet
south span 335 feet

B. P. and L. Power line crossing east of Unatilla Bridge

Vertical clearance 76 feet

Umatilla River railroad bridge, fixed apan

Vertical clearance 32.5 feet Horisontal clearance, east shore to center support 126 feet west shore to center support 46 feet

Unatilla River highway bridge, fixed span

Vertical clearance, center of span 56 feet Horisontal clearance, east span 40 feet center span 103 feet west span 0 feet Jumiper Canyon railroad bridge

Vertical clearance,7 feet
Herigontal clearance, west span 64 feet
center span 77 feet
east span 64 feet

Juniper Canyon highway bridge

Vertical elearance, 2 feet
Horisontal elearance, west span, 64 feet - center span, 77 feet
east span, 64 feet
The clearances at Juniper Canyon were taken when the McMary Poel
was normal level.

MeHary pavigation look

Vertical clearance, warestricted Horisontal elearance, 66 feet Length, 675 feet

Above figures takes from U. S. Engineers Operational Manual.

Newary Dam double leaf Bascule Bridge

Vertical clearance, epen, unrestricted closed, 15 feet Horisontal elearance, 86 feet

Month of Walls Walls River railroad bridge fixed span

Vertical clearance, 37 feet (12 Dec. 1956, 13:30 hours) Horisontal clearance, 117 feet

Month of Halla Walla River highway bridge fixed span

Vertical clearance, 30 feet (12 Dec. 1956, 13:30 hours) Horisontal elearance, 112 feet

Mouth of Walla Walla River old highway bridge (Center span has been removed)

Vertical elearance, unimpaired Horizontal elearance, 122.4 feet (12 Dec. 1956, 13:30 houre)

Approved:

Respectfully submitted:

V. Ralph Sobieralski LCDR CAG Survey Officer-in-Charge Robert B. Helby Cartographic Survey Aid CAGS

PROTOGRAPHOTRIC PLOT REPORT

Radial Flot "A"

Map Manuscripta T-10426 thru T-10432

Project 27023

21. Area Covered:

This radial plot covers the shorelines of the Golumbia River in Oregon and Washington to an interior depth of about three miles, from a point two miles downstream from Umstilla, Oregon, to a point about one mile upstream from Juniper, Oregon. It comprises map manuscripts T-10426 thru T-10432.

22. Nathod:

The control extension was accomplished by the hand templet radial line plot method using acetate templets made from nine-lens photographs taken in 1954, and 1956. Photographs were prepared by the usual methods and master calibration templets No. 43497 and No. 48340 were used respectively for the 1954 and 1956 photography when correcting for transforming errors and paper distortion. Refer to letter, 73-mkl dated 9 August 1956, Subject: "Compilation - Projects 27260, Charleston, S. C. and 27020, Upper Columbia River, Oregon", relative to the use of calibration templet No. 48340 (1955) for 1956 photography.

Seven 2' x 3' shouts of Mylar material, on each of which was ruled a polyconic projection of its area comprising 3 minutes - 45 seconds of latitude and ? minutes - 30 seconds of longitude at scale 1:15,000, were furnished for work sheets. The hambert State Crics of Washington and Oregon were also ruled on these sheets. The horizontal control falling on each of the respective manuscripts was plotted and verified. The seven sheets were joined together by matching at the meat line junctions and then fastened with elear collulose taps. The templets were criented to the identified control directly on the joined work sheets and furtened with macking tape. After all templets were satisfactorily oriented and fastened the entire radial plot was turned face down and the locations of pass points and principal points were pricked and indicated by circles, on the reverse sides of the work sheets using Craftint No. 111 red plustic ink. The plot was then turned face up and the templets were dismantled. The photogrammetric points falling in the margins at the junctions of adjoining sheets were transferred and then the joined work sheets were dismantle.

There were more than an adequate number of identified horisontal control stations available and all were satisfactorily held in this radial plot. The results were excellent and well within the limits of horisontal accuracy requirements.

23. Adequacy of secretals

The in additionation of horizontal comback stations was satisfactory and more than an adequate number were available.

24. Supplemental Dates

There were topographic maps, compiled by the Corps of angineers, U. S. Army, Walla Malla District, available which covered the area of this radial plot. These were not needed to supplement the identified horizontal control stations, but they were used during the compilation of planimetric details for verification of vertain features for which state coordinate positions of the U. a. Engineers were available.

25. Photographys

The photography was adequate. The c.H.A. ratio prints were not needed to supplement the nine-lans photography.

Approved:

Respectfully submitted:

V. Ralph Jobieralski LCDR C&23 Survey Officer-in-Charge J. Edward Deal Cartographer CMGS

DESCRIPTIVE REPORT U.S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY CONTROL RECORD

N.A. 1927 - DATUM

DISTANCE
FROM GRID OR PROJECTION LINE
FROM GRID OR PROJECTION LINE
IN METERS COMM- DC- 57843 (BACK) SCALE FACTOR None FORWARD 8-21-56 (869.5) (1267.9)(1138.7) (1523.6)198,4) (1024.8)(BACK) DATE FORWARD 328.9 983.0 713.8 266.6 23.9 1093,3 DATUM SCALE OF MAP 1:15,000 снескер ву. Ј.Т.Н. OR PROJECTION LINE IN METERS DISTANCE FROM GRID IN FEET. (BACK) FORWARD LONGITUDE OR x-COORDINATE LATITUDE OR J. COORDINATE 10.652 31,838 23,120 01.109 50,785 12,385 Ph-63 8-15-56 35 58 28 2 56 2 MAP T-. 10429..... PROJECT NO... 45 118 118 118 3 45 DATE DATUM 1927 N.A. = = SOURCE OF INFORMATION (INDEX) G 5257 G 5257 Field Comp. 583 58 COMPUTED BY. J.E.D. JUNIPER (USGS) PEARSON, 1956 1 FT.= 3048006 METER STATION 1942 (Oreg) 1942 (Oreg) WALL (USE)



COMPILATION REPORT

Map Manuscript T-10429

Project Ph-63

31. Delineation:

The compilation and drafting were accomplished as follows:

- (a) Graphic compilation in ink on work sheets having projections ruled in Washington.
- (b) Office review.
- (c) Transfer of compiled planimetry and projections to yellow coated scribe sheet by "Watercote" method.
- (d) Scribing in negative of compiled details and projections.
- (e) Reproduction of scribed features on Van Dyke grained positive.
- (f) Stick-up of symbols and type.
- (g) Final office review and inspection by Officer-in-Charge.

32. Control:

Refer to Items 22 and 23 of the Photogrammetric Plot Report, a copy of which is included in this Descriptive Report.

33. Supplemental Data:

This office was furnished by the Corps of Engineers, U. S. Army, Walla Walla District, a set of prints of a survey they made of the area behind the McNary Dam previous to flooding. During this survey they located by triangulation ties several points of planimetry that appear on this manuscript. Coordinates on Lambert State Grids were furnished for these points and they were plotted on the manuscript for verification purposes. In all instances they were in excellent agreement with the graphically compiled planimetry of the manuscript. Submitted are prints of this survey covering the area of this manuscript. They are:

Corps of Engineers, U. S. Army, Walla Walla District McNary Lock & Dam

Relocations and Section Corner Ties

Drawings MDR-1-12/12 thru MDR-1-12/14

The heights of bluffs above the pool level were also verified by comparison with the contours shown on these drawings.

34. Contours and Drainage:

Contours are not applicable. Drainage was delineated by field inspection and refined by office examination of the photographs supplemented by reference to the U.S. Geological Survey quadrangles of the area.

35. Shoreline and Alongshore Details:

The shoreline of the nine-lens photographs taken on 9-26-54 when the pool level was 340 feet above mean sea level has been shown. Except where clarification was needed no field inspection was made of the shoreline.

The approximate low-water line was compiled from Corps of Engineers, U. S. Army photographs taken on 13 October 1953 when the water level of the pool was about 324 feet above mean sea level.

36. Offshore Details:

None.

37. Landmarks and Aids:

Form 567 is submitted for Bull Run Light, 1956.

38. Control for Future Surveys:

Two recoverable topographic stations were located. Namely:

CAJON (USE 1941), 1956 Bull Run Light, 1956

One photo-hydro station was located by the sub-station method,

These are listed in paragraph 49, Notes to the Hydrographer.

39. Junctions:

Satisfactory junctions were completed with T-10425 and T-10428.

40. Horizontal and Vertical Accuracy:

There are/areas believed to be of sub-normal horizontal accuracy. Vertical accuracy is not applicable.

46. Comparison with Existing Maps:

The U. S. Geological Survey quadrangle maps of the area are obsolete for comparison with this shoreline manuscript because they were made previous to the flooding of the McNary Pool.

47. Comparison with Nautical Charts:

There are no nautical charts of the area. Recent hydrographic surveys by the Corps of Engineers were not available for comparison purposes.

Approved:

V. Ralph Sobieralski

LCDR, C&GS

Officer-in-Charge

Respectfully submitted:

J. Edward Deal Cartographer

C&GS

48. Geographic Names:

The geographic names on this manuscript are not final. They were obtained from the geographic name inspection made by the field unit. Verified names and recommended names are shown.

Columbia River

Juniper Canyon

Oregon

Washington

Lake Wallula Names approved 5-15-59 L. Heck

49. Notes to the Hydrographer:

Form 524 is submitted for CAJON (USE 1941) 1956 and Bull Run Light, 1956.

One photo-hydro station was located by the sub-station method:

Name

Photo. No.

Description

TOPO. NO. 7

46179

A winged drill hole in a small rock outcrop flush with the ground. 6.8 ft. southwest of a railroad right-of-way post.

Review Report of Shoreline Manuscript T-10429 June 1959

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

There are no registered topographic surveys of subject area.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

PENDLETON, ORE., 1:125000, Edition of 1935, U. S. Geological Survey

This topographic quadrangle was surveyed in 1929-1931 and date and scale preclude a detailed examination.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEY:

None!

65. COMPARISON WITH NAUTICAL CHARTS:

None!

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

Subject manuscript has been compiled according to project instructions and no deficiencies in adequacy or accuracy are indicated.

Reviewed by:

Josef J. Streif er

Chief, Nautical Chart Branch

Approved bys

Chief, Review & Drafting Section

Photogrammetry Division

ef. Photogrammetry Division

0/18.

Charts Division

Chief, Coastal Surveys Division

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS ORLEANDMARKE GORGE GRAPHS

STRIKE OUT ONE TO BE CHARTED TISTURE COCCESSOR

Portlend, Oregon

I recommend that the following objects which have (sates to been inspected from seaward to determine their value as landmarks be The positions given have been checked after listing by J. B. Deal charted on (dictate form) the charts indicated.

			-				2	Rolinh S	W. Rolph Soldow lob!	ĹΙ	Chief of Party.
STATE	Approxim			L	POSITION	: :		METHOD		THA	
	URECAUTE	ļ	LATI	LATITUDE*	LONG	LONGITUDE #	ı	LOCATION	DATE	אב כא	CHARTS
CHARTING	DESCRIPTION	BIGNAL	0	D.M. METERS	1 0	" D.P. METERS	DATUM	BURVEY No.		HARROI HEHOI	AFFECTED
	Bull Run Ident		65 59	1275.5	118 58	1220.7	1027	7-30620 7-3-5K	7-3-56		Non
		ı								-	
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			1.								
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	-	_									
		, , ,									

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

NAUTICAL CHARTS BRANCH

SURVEY NO. _T-10429

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS	
			Before After Verification and Review	
			Before After Verification and Review	
			Before After Verification and Review	
			Before After Verification and Review	·- <u>-</u>
	-		Before After Verification and Review	
			Before After Verification and Review	
			Before After Verification and Review	
			Before After Verification and Review	
			Before After Verification and Review	
			Before After Verification and Review	
	·			

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

**