

13097

13097

FORM C&GS-504	
U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey SHORELINE (Photogrammetric)	
Field No.	Office No. T-13097
LOCALITY	
State	WASHINGTON
General locality	STRAIT OF JUAN DE FUCA
Locality	NEW DUNGENESS HARBOR
<u>1966-67</u>	
CHIEF OF PARTY John O. Boyer, CDR, Pacific Marine Center Allen L. Powell, RADM, Atlantic Marine Center	
LIBRARY & ARCHIVES	
DATE	

DESCRIPTIVE REPORT - DATA RECORD

T - 13097

PROJECT NO. (II): PH-6706		
FIELD OFFICE (III): Atlantic Marine Center		CHIEF OF PARTY J. Bull, RADM Director, Atlantic Marine Center
INSTRUCTIONS DATED (II) (III): OFFICE (Aerotriangulation) November 18, 1966 OFFICE (Compilation) January 18, 1967		
METHOD OF COMPILATION (III): Kelsh Plotter		
MANUSCRIPT SCALE (III): 1:10,000	STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III): 1:6,000 pantographed to 1:10,000	
DATE RECEIVED IN WASHINGTON OFFICE (IV):	DATE REPORTED TO NAUTICAL CHART BRANCH (IV):	
APPLIED TO CHART NO.	DATE:	DATE REGISTERED (IV):
GEOGRAPHIC DATUM (III): N. A. 1927		VERTICAL DATUM (III): MHW MEAN LOW WATER EXCEPT AS FOLLOWS: Elevations shown as (25) refer to mean high water Elevations shown as (5) refer to sounding datum i.e. MEAN LOW WATER or mean lower low water
REFERENCE STATION (III): EVELYN, 1962 ✓		
LAT.: 48° 08' 10.3012" (318.2) ✓	LONG.: 123° 09' 37.9002" (783.6) ✓	<input checked="" type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED
PLANE COORDINATES (IV): 423,040.99' ✓ x = 1,431,827.92' ✓		STATE Washington
		ZONE North
ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (II) FIELD PARTY, (III) PHOTOGRAMMETRIC OFFICE, OR (IV) WASHINGTON OFFICE. WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE THE SURNAME AND INITIALS, NOT INITIALS ONLY.		

DESCRIPTIVE REPORT - DATA RECORD

FIELD INSPECTION BY (II):		DATE:
Lyle Riggers		Oct. & Nov. 1966
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):		
July 26, 1966 - Air Photo Compilation		
PROJECTION AND GRIDS RULED BY (IV):		DATE
A. E. Roundtree		Nov. 21, 1966
PROJECTION AND GRIDS CHECKED BY (IV):		DATE
R. Glasser		Nov. 22, 1966
CONTROL PLOTTED BY (III):		DATE
L. Graves		Jan. 1967
CONTROL CHECKED BY (III):		DATE
C. Bishop		Jan. 1967
STEREOSCOPIC STEREOSCOPIC CONTROL EXTENSION BY (III):		DATE
Robert B. Kelly		Jan. 9, 1967
STEREOSCOPIC INSTRUMENT COMPILATION (III): Kelsh Plotter	PLANIMETRY Reviewed by: L. Neterer A. Shands	DATE Feb. 2, 1967 Feb. 2, 1967
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III):		DATE
L. L. Graves		Feb. 18, 1967
SCRIBING BY (III):		DATE
F. P. Margiotta		April 25, 1968
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): COMPILATION: C.H. Bishop FIELD EDIT: R.J. Pate SCRIBING & STICK UP: R.E. Smith		DATE Feb. 19, 1967 Feb. 2, 1968 June 3, 1968
REMARKS: FIELD EDIT BY: W. F. Forster, II <div style="text-align: right;"><i>June, 1967</i> August 23, 1967</div>		

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

Wild RC-8 152.29 mm (5)

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE *
66-S(c) 3239A thru 3240A	July 26, 1966	12:13	1:20,000	5.7 above MLLW
66-S(c) 3245A thru 3249A	"	12:26	"	"
66-S(c) 3255A thru 3258A	"	12:43	1:30,000	"
66-S(c) 3292A thru 3293A	"	14:35	"	5.2' above MLLW

*Times Listed
here are
Pacific Standard*

* Predicted

TIDE (III)

Diurnal

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: PORT TOWNSEND, WASHINGTON		5.1	8.3
SUBORDINATE STATION: DUNGENESS, WASHINGTON		4.4	7.6
SUBORDINATE STATION:			

Atlantic Marine Center
WASHINGTON OFFICE REVIEW BY (IV):*W. M. Slattery*

DATE:

March, 1969

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

*8***RECOVERED: *8***

IDENTIFIED:

*67***

NUMBER OF BM(S) SEARCHED FOR (II):

RECOVERED:

IDENTIFIED

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

6*

REMARKS:

*Established during October-November 1966 field inspection.

*** One station, "MC DON," falls about 2 miles west of
T-13097 and this job.*

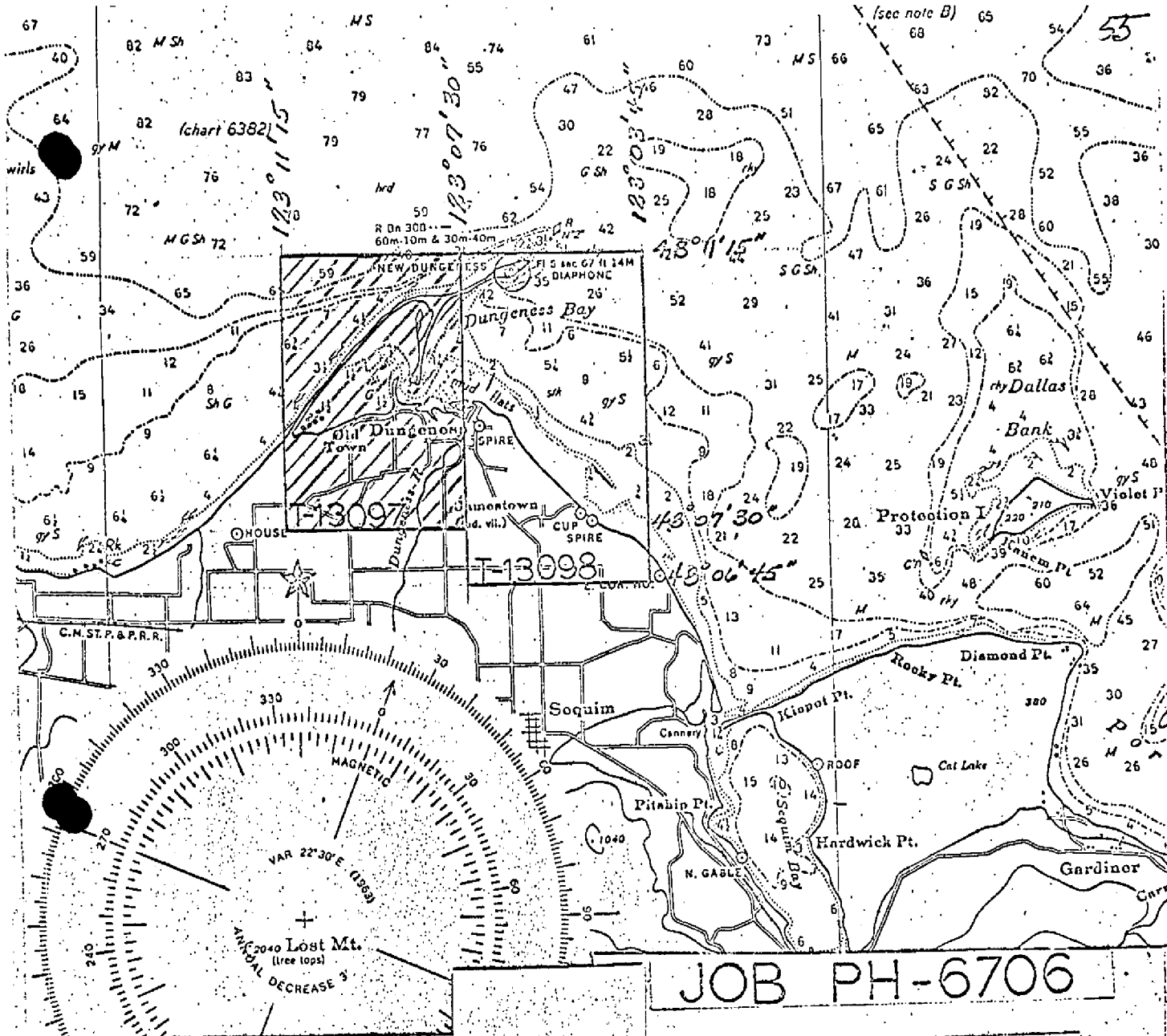
T-13097

COMPILATION RECORD

COMPLETION DATE

REMARKS

ADVANCE MANUSCRIPT Alongshore area for hydrography	February 1967	Superseded
Field Edit applied Compilation Complete	September 1967	<i>Superseded</i>
<i>Final Review</i>	<i>March 1969</i>	



OFFICIAL MILEAGE
For Cost Accounts---

Sheet Numbers	Area Sq. Mi.
T-13097	3
T-13098	4
Total	7

JOB PH-6706

WASHINGTON

DUNGENESS BAY

Shoreline Mapping

Scale 1:10,000

on as
possible
6382
6401

of naval operations.

Leland

6.

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-13097

Shoreline manuscript T-13097 is one of two 1:10,000 scale maps that comprise Ph-6706. The maps are for New Dungeness Harbor and Dungeness Bay in the Strait of Juan De Fuca, in the state of Washington. The sketch on page 5 of this report shows the position of T-13097 in Ph-6706.

This is a stereo-instrument job in advance of hydrographic surveys of the area. Color photographs were taken on July 26, 1966 at 1:20,000 and 1:30,000 scales with the "S" camera. The stereo-bridges were run and adjusted to field identified control in the Washington Office using black and white diapositives of the 1:30,000 scale photographs. Compilation was done with the Kelsh Plotter. Ratio black and white cronapaque prints at 1:10,000 scale from the 1:30,000 photographs, were processed and provided for photo-hydro support.

Pre-compilation field work consisted of control identification on contact transparencies of the 1:30,000 scale color photographs, and field inspection on color contact prints of the 1:30,000 scale photographs.

Field edit was done during June 1967 in conjunction with hydro support. The map was scribed and stuck-up after applying the field edit.

Final review was done at the Atlantic Marine Center in March 1969.

The compilation manuscript was a vinylite sheet 3 minutes and 45 seconds in latitude and longitude. The smooth manuscript was on cronaflex, from which a positive and negative are furnished for registry and record.

Field Inspection Report
Dungeness Bay, Washington
Project Ph-6706

Map Manuscripts T-13097 and T-13098
Oct.-Nov. 1966

The contact, color, photographic transparencies furnished the field unit was of excellent quality and no difficulty was encountered in the selection and identification of the photo-control points.

All horizontal control stations established by the Coast and Geodetic Survey was searched for and a Form 526 (Recovery Note, Triangulation Station) is being submitted for each station.

Four new horizontal control stations were located by triangulation intersection methods. They are the four range markers that designate measured, nautical mile course. They were photo identified in lieu of Station TAR, 1940.

All tidal bench marks were searched for and the disposition of each mark has been indicated on its respective Form 685A, Recovery Note, Bench Mark.

Landmarks and fixed aids to navigation were investigated and they have been listed on Form 567 (Non-floating Aids or Landmarks for Charts). One fixed aeronautical aid, a fan marker was also photo identified.


Eleven photo-hydro stations were identified and numbered on the contact, color photography. A list and brief description of the station follows:

- ✓ 9701 - North gable, green building with black roof
- ✓ 9702 - Base of half-round flume
- ✓ 9703 - ~~West~~^{East} gable, white building with red roof
- ✓ 9704 - Northwest corner, pier
- ✓ 9705 - Lone, outbuilding
- 9706 - Box on lone pile
- ✓ 9801 - Southeast gable, ~~large barn unpainted shed~~
- ✓ 9802 - Northwest gable, large barn.
- ✓ 9803 - East end of 4 pile structure
- ✓ 9804 - Southwest corner, pier in ruins
- ✓ 9805 - Southwest gable, white house with red roof

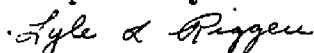
(See F. Insp. Photo 66-5-3246A)

(See F. Insp. photo 66-5-3236A)

Approved:


John O. Boyer, CDR
Chief, Operations Division
Pacific Marine Center

Respectfully submitted,



for. Robert B. Melby
Survey. Technician, C&GS
Photo Field Unit
Pacific Marine Center

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PHOTOGRAMMETRIC PLOT REPORT
JOB PH-6706
DUNGENESS BAY, WASHINGTON

January 9, 1967

21. Area Covered

This report covers T-sheets 13097 and 13098 of Dungeness Bay, Washington.

22. Method

Two horizontal bridges were run to provide control for graphic compilation. The C-8 was used for the instrumentation of Strip #1 and the C-5 was used for same of Strip #2. Photographs 66-S(C)-3255 thru 3259 and 66-S(C)-3292 thru 3297 were used for field editing and office identification of points. Black and white diapositives made from color negatives were used in bridging of the two horizontal strips. All pass and tie points were drilled on the diapositives. The adjustment on the IBM 1620 utilized 6 control stations for Strip #1 and 5 control stations for Strip #2. One control station was used as a check for Strip #1 and 3 control stations were used as checks for Strip #2.

23. Adequacy of Control

Horizontal control accuracy meets the standards for delineating shoreline sheets at 1:10,000 scale. An error was found in distances from EBERLE 1962 to substitute stations A & B. The reason for error was due to the reversal of the distances recorded on the control station identification sheet. Correction of error caused all control stations to hold within the accuracy required by the National Map Standards.

Common points were hit between Strips #1 and #2 to augment datum tie. All tie points were averaged between the two strips.

25. Photography

Adequate as to coverage, overlap and definition.

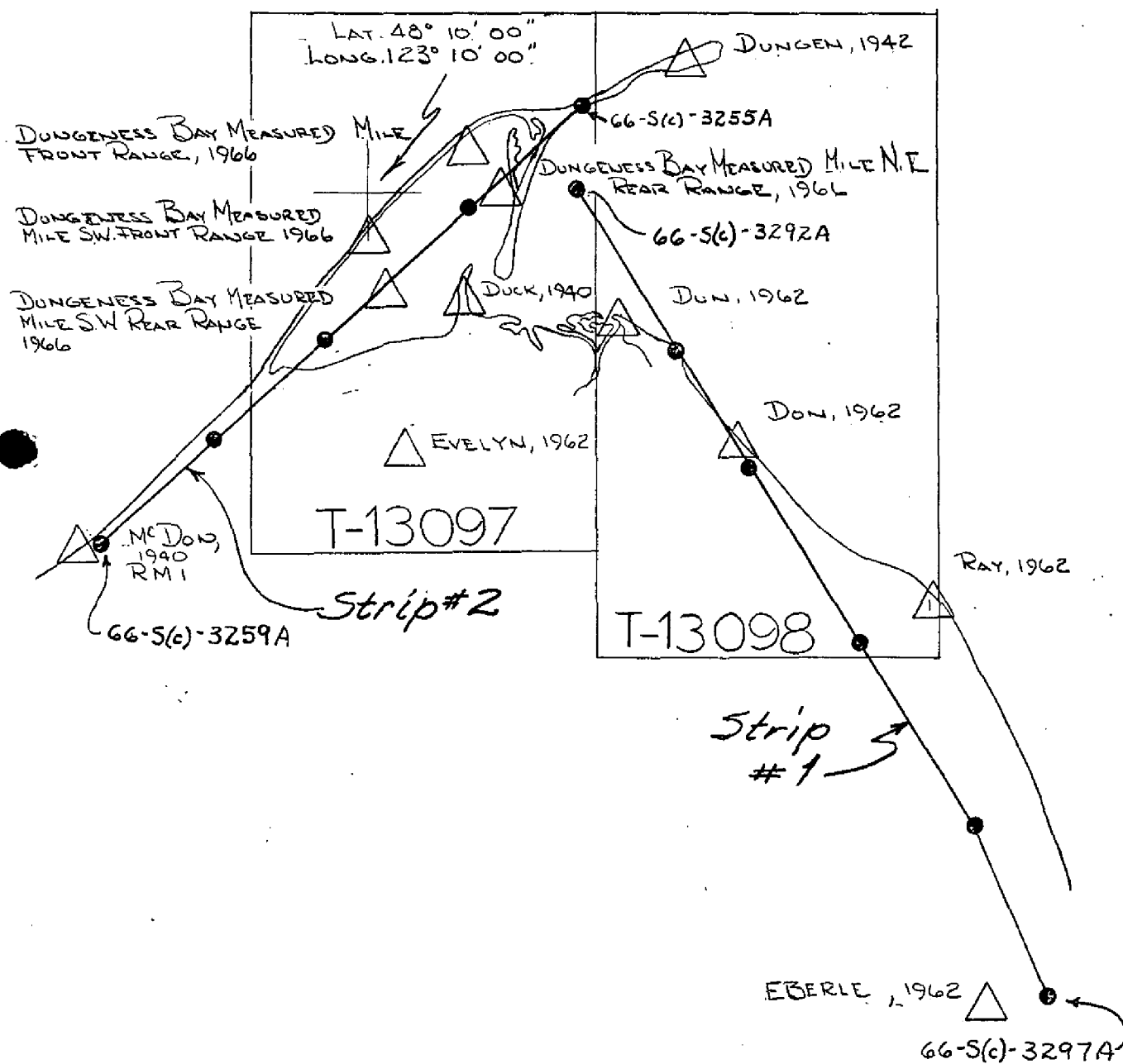
Approved by:

John D. Perrow Jr.
John D. Perrow, Jr.

Submitted by:

Robert B. Kelly
Robert B. Kelly

AEROTRIANGULATION SKETCH
 DUNGENESS BAY, WASHINGTON
 PH - 6706
 JANUARY, 1967



U.S. DEPARTMENT OF COMMERCE
DESCRIPTIVE REPORTCOAST AND GEODETIC SURVEY
CONTROL RECORD

MAP T-13097

PROJECT NO. PH-6706

SCALE OF MAP 1:10,000

SCALE FACTOR

NONE

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ψ -COORDINATE LONGITUDE OR α -COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
EVELYN, 1962	P.C. Vol. II Pg. 317	N.A. 1927	423,040.99 ✓ 1,431,827.92 ✓	3,040.99 (1,959.0) 1,827.92 (3,172.08)			
DUCK, 1940	" " Pg. 316	"	429,651.86 ✓ 1,434,595.87 ✓	4,651.86 ✓ (348.14) 4,595.87 (404.13)			
DUNGENESS BAY MEASURED MILE, NORTHEAST	✓						
FRONT RANGE, 1966	CLARY COMP.	"	436,641.76 ✓ 1,436,007.40 ✓	1,641.76 (3,358.24) 1,007.40 (3,992.60)			
DUNGENESS BAY MEASURED MILE, NORTHEAST	✓						
REAR RANGE, 1966	"	"	434,187.33 ✓ 1,436,587.25 ✓	4,187.33 (812.67) 1,587.25 (3,412.75)			
DUNGENESS BAY MEASURED MILE SOUTHWEST	✓						
FRONT RANGE 1966	"	"	432,472.02 ✓ 1,430,743.91 ✓	2,472.02 (2,527.98) 743.91 (4,256.09)			
DUNGENESS BAY MEASURED MILE SOUTHWEST	✓						
REAR RANGE 1966	"	"	429,984.88 ✓ 1,431,331.16 ✓	4,984.88 (15.12) 1,331.16 (3,668.84)			
TAR, 1940	G.P. Pg. 1816	"	48°10'30.581" ✓ 123°08'42.960"	944.6 ✓ (908.6) 887.5 ✓ (352.1)			
MC DON, 1940	P.C. Pg. 380	"	419,394.71 1,417,295.15	4,394.7 (605.3) 2,295.2 (2704.8)		About 2 mi. west of T-13097 and pb-2704, identified	

1 FT. = 3048006 METER

COMPUTED BY: A.C. RAUCK, JR.

DATE JAN. 25, 1967

CHECKED BY: L.L. Groves

DATE Jan. 26, 1967

COMM-DC-57843

10

10
11.

COMPILATION REPORT
T-13097

31. DELINEATION

Kelsh instruments were used in the compilation of this map manuscript.

32. CONTROL

Refer to Photogrammetric Plot Report and the Field Inspection Report submitted with this Descriptive Report. Control was adequate. The drilled pass point control held very well.

33. SUPPLEMENTAL DATA

U.S.C.&G.S. Hydrographic Survey No. 6650, dated Nov-Dec 1940
Scale 1:10,000

U.S.C.&G.S. Hydrographic Survey No. 6651, dated Dec-Jan 1940, 1941
Scale 1:10,000

These data were used for comparison purposes only.

34. CONTOURS AND DRAINAGE

Contours are inapplicable. Drainage was delineated from office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS

Shoreline inspection was adequate. The mean high water line was not located by the field inspector. Alongshore details such as bluffs, piers, piling, roads, etc. were identified.

Compilation photos were taken at a time of near high water, which was significant in the delineation of this feature. No low water lines were delineated.

Six photo hydro signal sites were selected and described by the field inspector. One of these, No. 9706, was positioned by the Kelsh; the others were plotted from plane coordinates included in the IBM readout.

36. OFFSHORE DETAILS

Offshore details were compiled from field inspection data and office interpretation of the photographs.

37. LANDMARKS AND AIDS

Four non-floating aids were located and identified by the field inspector. These are also triangulation stations.

Form 567 "Non-floating Aids or Landmarks for Charts" is herewith submitted for these aids.

38. CONTROL FOR FUTURE SURVEYS

A descriptive list of photo-hydro stations for this sheet has been included with "Notes for the Hydrographer".

39. JUNCTIONS

A satisfactory junction has been made to the east with survey T-13098.

There are no contemporary surveys to the north, west or south.

40. HORIZONTAL AND VERTICAL ACCURACY

Refer to "Photogrammetric Plot Report" included with this report concerning horizontal accuracy. Vertical accuracy is inapplicable.

46. COMPARISON WITH EXISTING MAPS

A comparison was made with the following U.S.G.S. Dungeness Quadrangle dated 1956, scale 1:24,000.

Only changes of minor significance were apparent.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with U.S.C.&G.S. Chart No. 6401, dated June 28, 1965, scale 1:150,000. This scale did not permit a reasonable comparison.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted:

Charles H Bishop

Charles H. Bishop
Cartographer

Approved and Forwarded:

Allen L. Powell

Allen L. Powell
RADM, USESSA
Director, Atlantic Marine Center

GEOGRAPHIC NAMES

FINAL NAME SHEET

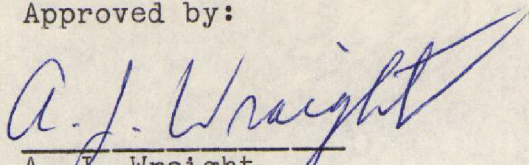
PH-6706 (Dungeness Bay, Washington)

T-13097

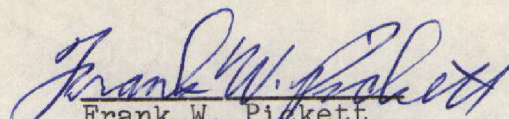
- ✓ Dungeness Bay
- * Dungeness National Wildlife Refuge
- ✓ Dungeness River
- ✓ Dungeness Spit
- * * Dungeness Valley
- * * Matriotti Creek
- * * Meadowbrook Creek
- ✓ New Dungeness Harbor
- ✓ Old Town
- ✓ Strait of Juan de Fuca

* Not used, boundary not delineated
* * " " , outside delineation limits.

Approved by:


A. J. Wraight
Chief Geographer

Prepared by:


Frank W. Pickett
Cartographic Technician

T-13097

49. NOTES FOR THE HYDROGRAPHER

An ozalid copy of this map manuscript has been prepared for your use. On it are noted items which may require further clarification or verification during hydrography or edit.

The following photo hydro signal sites, pre-selected by the field inspection party have been shown on the copy (ozalid and cronaflex) of the manuscript.

- 9701 - North gable, green building with black roof
- 9702 - Base of half round flume
- 9703 - East gable, white building with red roof
- 9704 - Northwest corner, pier
- 9705 - Lone outbuilding
- 9706 - Box on lone pile

PHOTOGRAMMETRIC OFFICE REVIEW

T-13097

1. PROJECTION AND GRIDS CHB	2. TITLE CHB	3. MANUSCRIPT NUMBERS CHB	4. MANUSCRIPT SIZE CHB
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY CHB	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) XX		7. PHOTO HYDRO STATIONS CHB
8. BENCH MARKS XX	9. PLOTTING OF SEXTANT FIXES XX	10. PHOTOGRAMMETRIC PLOT REPORT Bridge (W.O.)	11. DETAIL POINTS XX
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE CHB	13. LOW-WATER LINE XX	14. ROCKS, SHOALS, ETC. XX	15. BRIDGES XX
16. AIDS TO NAVIGATION CHB	17. LANDMARKS XX	18. OTHER ALONGSHORE PHYSICAL FEATURES CHB	19. OTHER ALONGSHORE CULTURAL FEATURES CHB
PHYSICAL FEATURES			
20. WATER FEATURES XX		21. NATURAL GROUND COVER XX	22. PLANETABLE CONTOURS XX
23. STEREOSCOPIC INSTRUMENT CONTOURS XX	24. CONTOURS IN GENERAL XX	25. SPOT ELEVATIONS XX	26. OTHER PHYSICAL FEATURES XX
CULTURAL FEATURES			
27. ROADS CHB	28. BUILDINGS CHB	29. RAILROADS XX	30. OTHER CULTURAL FEATURES CHB
BOUNDARIES			
31. BOUNDARY LINES XX		32. PUBLIC LAND LINES XX	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES CHB		34. JUNCTIONS CHB	35. LEGIBILITY OF THE MANUSCRIPT CHB
36. DISCREPANCY OVERLAY XX	37. DESCRIPTIVE REPORT ACR	38. FIELD INSPECTION PHOTOGRAPHS CHB	39. FORMS CHB
40. REVIEWER <i>Charles H Bishop</i> C. H. Bishop 2/19/67		SUPERVISOR, REVIEW SECTION OR UNIT <i>Albert C. Rauck, Jr.</i> A. C. Rauck, Jr.	
41. REMARKS (See attached sheet)			
FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT			
42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.			
COMPILER <i>L.L. Graves</i> L.L. Graves 2/1/68 Reviewed by R. J. Pate 2/2/68		SUPERVISOR <i>Albert C. Rauck, Jr.</i> A. C. Rauck, Jr.	
43. REMARKS FIELD EDIT applied from Field edit ozalid T-13097			

UNITED STATES GOVERNMENT

Memorandum

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U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

TO : Chief, Photogrammetry Division

DATE: August 23, 1967

In reply refer to:

FROM : Commanding Officer,
USC&GS Ship HODGSON

SUBJECT: Field Edit Report: Projects Job PH-6714, Admiralty
Inlet, and PH-6706, Dungeness Bay, Wn.

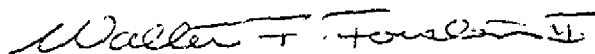
In accordance with Project Instructions OPR 412-Port Discovery - to Dungeness Bay dated 6 February 1967 the above subject assigned field editing was accomplished.

Under separate cover are submitted field edit ozalids and photographs for OPR 412 and subject projects. Signals were located by standard photo-grametric methods and all location of photo-hydro signals are considered final.

Final verification of preliminary control overlays is now being undertaken. After final control verification the mylar cronaflex copies of the "T" sheets will be forwarded to your office.

Attached with this report is a summary per "T" sheet of field editing accomplished. All notes are in purple ink. Little photo-identification of rocks was accomplished on the southern part of the subject survey area because of heavy shadowing. Hydrographic fixes were plotted on all "T" sheets to aid in the final varification of questioned items and uncharted rocks.

The HODGSON is being deactivated as of 25 August 1967. All field data that is remaining aboard will be transferred to Chief Processing, Seattle, Washington.


Walter F. Forster II

Enclosure: Summaries of accomplished
field editing



BUY U.S. SAVINGS BONDS REGULARLY ON THE PAYROLL SAVINGS PLAN

JOB PH-6706

T-13097

Verification of T-13097 is complete. All notes to the verifier are on the field edit ozalid attached. Field edit was made only within the area of the hydrographic survey, these limits are shown on the ozalid. The MLLW line will be developed in its final correct position on smooth sheet H-8930.

The field edit ozalid notes are dated 4/67

TO BE CHARTED
TO BE RE-LEASED
TO BE DULLED-
STRIKE OUT TWO

Sequim Washington

The positions given have been checked after listing by Lyle L. Riggers

Robert B. Melby

Chief of Party

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. 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.

REVIEW REPORT T-13097
SHORELINE
SEPT. 1969

61. GENERAL STATEMENT

See Summary, page 6 of this Descriptive Report.

An ozalid Comparison Print (pages 21 through 23), which shows the differences noted in Items 62 thru 65, is included with the original of this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Registered Survey T-6819; 1:10,000; December 1940.

The T-6819 differences with this survey are shown in blue on the Comparison Print.

T-6819 shows a "pile" near $48^{\circ} 08.9'$, $123^{\circ} 10.84'$; "pier and piling remains from T-4193" in the same area; and "deadheads" near $48^{\circ} 08.83'$, $123^{\circ} 10.7'$ (all on page 22). None of these features are on this survey because they were not identifiable on the photographs, and were not noted by the field inspector or the field editor.

There are shoreline changes of up to 125 meters near $48^{\circ} 09.2'$, $123^{\circ} 07.5'$ to $123^{\circ} 07.95'$ (see page 23); $48^{\circ} 09.1'$, $123^{\circ} 08.5'$ (page 23); and $48^{\circ} 08.8'$, $123^{\circ} 11'$ (page 22). There are also changes apparent on Dungeness Spit (pages 21 thru 23).

This survey supersedes the previously registered survey for nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

U.S.G.S. quad DUNGENESS, WASH.; 1:24,000, Field Check 1956.

The quadrangle differences with this survey are shown in brown on the comparison Print.

The largest differences are in the shoreline near $48^{\circ} 09.14'$, $123^{\circ} 08.5'$, and $48^{\circ} 09.2'$, $123^{\circ} 08'$ (page 23).

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Smooth Sheet H-8929; 1:10,000; May 1967

This survey was the source of the shoreline for H-8929. The hydrographic survey shows some offshore details not on T-13097; they are shown in green on the Comparison Print.

H-8929 shows a "log" near $48^{\circ} 10.33$, $123^{\circ} 08'$ (page 21); a rock (3) near $48^{\circ} 08.9'$, $123^{\circ} 10.2$ and "scattered submerged piling" near $48^{\circ} 09.1'$, $123^{\circ} 10.6$ (page 22). None of these appear on this survey because they are not identifiable on the photographs, and were not noted by either the field inspector or the field editor.

65. COMPARISON WITH NAUTICAL CHARTS

Chart 6382; 1:80,000; 9th Edition - October 14, 1968.

The chart differences with this survey are shown in red on the Comparison Print.

The "danger area" enclosed near $48^{\circ} 09'$, $123^{\circ} 10.7'$ (page 22) on the chart is obviously the same area noted as "piling remains" in paragraph 2 of Item 62; and paragraph 2 of Item 64 as "scattered submerged piling".

The scale difference between the chart and this survey makes possible only a generalized comparison of the shoreline; and may exaggerate the difference in the placement of the geographic names, "Old Town" and "Dungeness" (page 23).

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This survey complies with the job instructions, Bureau requirements, and the National Standards for Map Accuracy. No accuracy tests were run in the field.

Submitted by:

M. M. Slavney
M. M. Slavney

Approved by:

Allen L. Powell
Allen L. Powell, RADM, USESSA
Director, Atlantic Marine Center

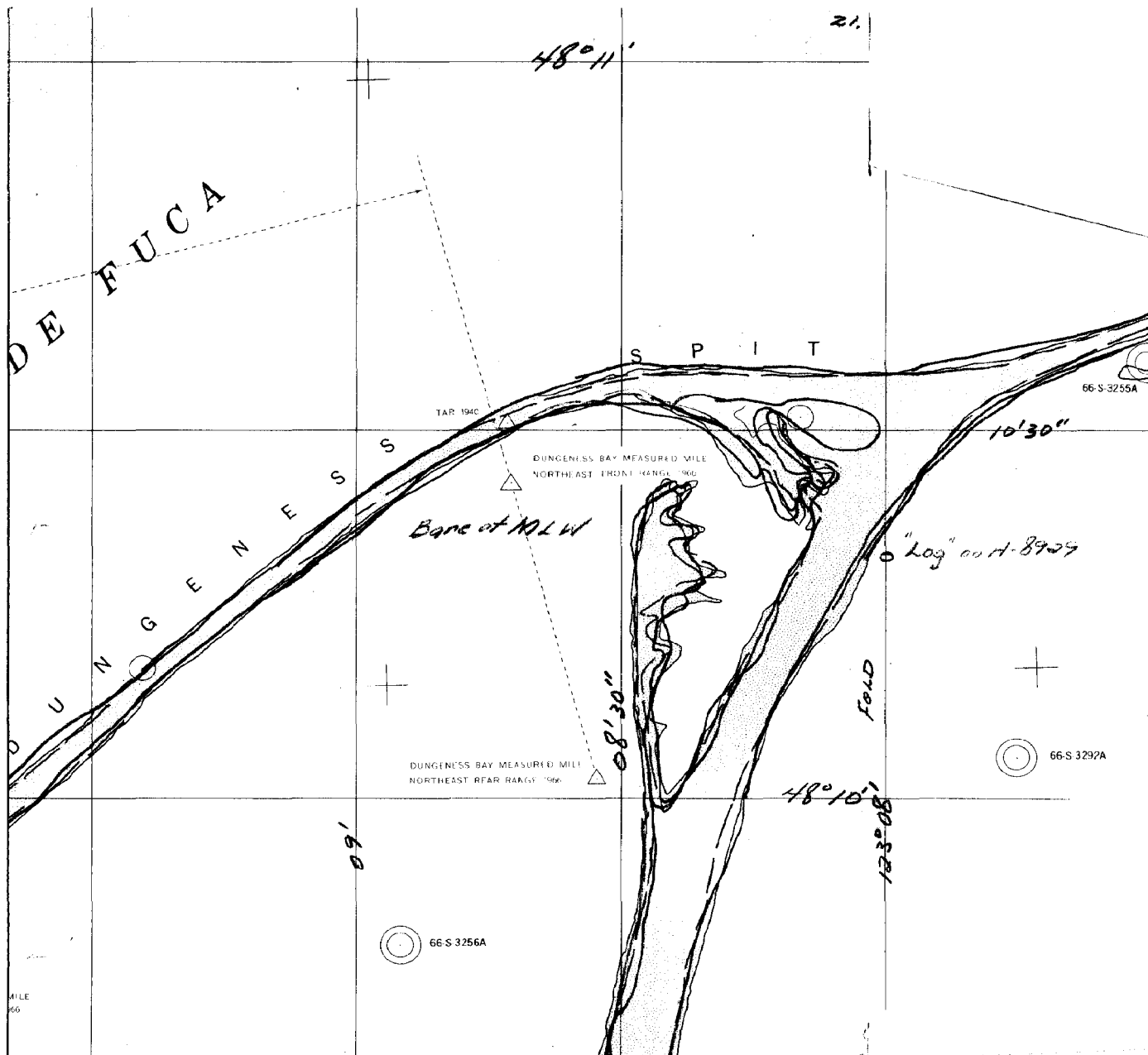
Approved by:

Charles J. Hannon
Chief, Cartographic Branch
Photogrammetric

Chief, Chart Division

R. H. Houtster
Chief, Photogrammetry Division

Chief, Operations Division



22.

NOTE:

"The photogrammetric location and delineation of features offshore from the mean high-water line on this survey may not be complete or final. The contemporary reviewed hydrographic survey of the area where available, should be consulted for the final delineation."

DUNGENESS BAY MEASURED
SOUTHWEST FRONT RANGE 11

DUNGENESS
SOUTHWEST

NEW DUNGENESS

scattered
submerged
piling

pier and piling
remains from
T-4193 (1926)

pile

dead-
heads

66-S-3257A

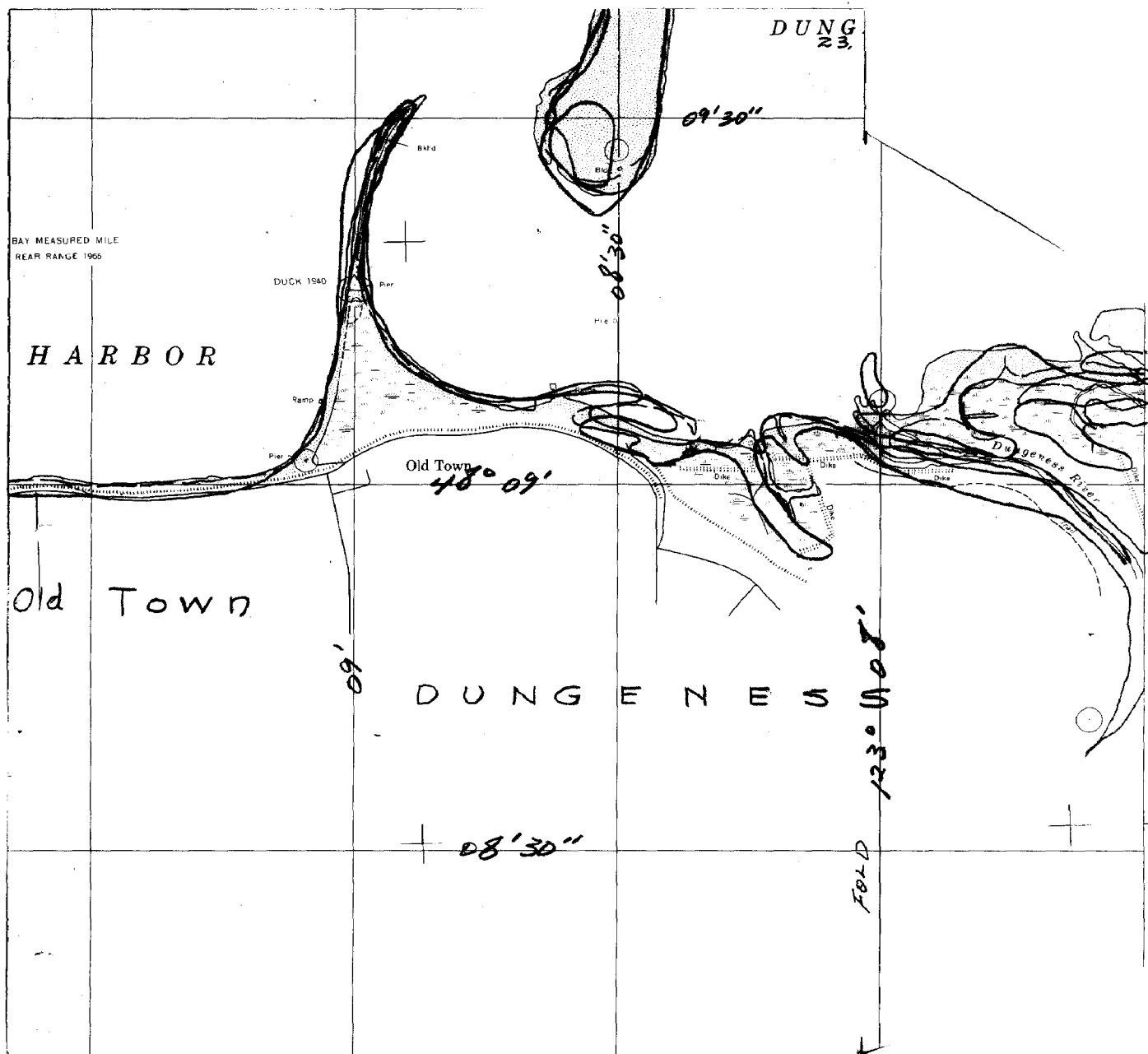
09'

Pier

(3)

Pier

Pier



NOTES TO VERIFIER
T-13097, Job PH-6706
SMOOTH SHEET No. H-8929 (HO-10-2-67)

Please note Items 64 and 65 in the Final Review portion
of the Descriptive Report for T-13097.