8806

Diag. Cht. No. 526.

Form 504

U. S. DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey

Field No. HFP 12-4-64 Office No. H-8806

LOCALITY

State NEVADA_ARIZONA

General localityGRAND WASH.

Locality ____IAKE MEAD _ NEVADA_ARIZONA

19.64

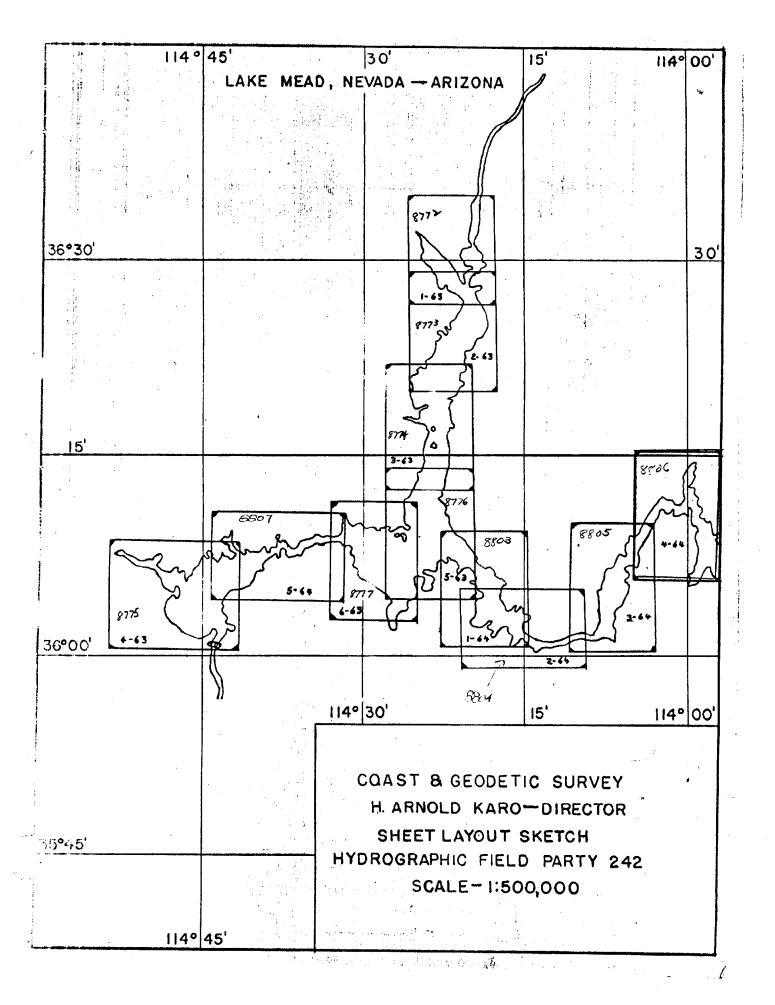
H.E. MCCALL, LT . 18CAGS

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DATE

USCOIAL-DC 5087

RM C&GS-537	U.S. DEPARTME COAST AND	NT OF COMMERCE	REGISTER NO.
	HYDROGRAPHIC TITLE SHEET	,	H_8806
	- The Hydrographic Sheet should be accompan pletely as possible, when the sheet is forward		FIELD NO. HFP 12-4-64
State	NEVADA_ARIZONA		
	GRAND WASH	· · · · · · · · · · · · · · · · · · ·	
Locality	LAKE MEAD, NEVADA - ARIZON	A	
Scale	1:12,000	Date of surv	13 FEB 1964 to 30 JULY 196
	2100 B-pt S2-219 10 MAY 1963	Project No.	OPR 443
	TAUNCH CS 183, TAUNCH CS 1177.		
Chief of party	H.E.McCALL,LT.,USC&GS		
Surveyed by_	G.F. TREFETHEN and J.R.CICHY,	lt.(jg),usc&GS	3 (photo party)
- , -	en by echo sounder, hand lead, pole		
Graphic record	d scaled by PARTY PERSONNEL		
	checked by PARTY PERSONNEL		
			· ·
Soundings per	nciled by		
Soundings in	fathers feet at	ZIEVAȚION	ABOVE MEAN SEA LEVEL
REMARKS: _	All echo soundings are in fee	t and tenths	of feet. All soundings
	are converted to elevation of	feet above Me	an Sea Level. Soundings
	on the boat sheet are elevation	n above mean	sea level. Only three
	digits were used, the first di	git in 1,000,	1,100, 1,200 were left
**************************************	off to make the boat sheet les	s congested.	For example:
	Elevation 1126 on the boat she		.,



DESCRIPTIVE REPORT TO ACCOMPANY HYDROGRAPHIC SURVEY H-8806 (Field No. H.F.P.-242 12-4-64) Project OPR-443

SCALE:

1:12,000

CHIEF OF PARTY:

H.E.McCALL, LT., USC&GS

A. PROJECT

Project OPR-443 was completed in accordance with instructions 2100 B-pt, S2-219 dated 10 May 1963 Lake Mead, Nevada-Arizona.

B.AREA SURVEYED

The geographic limits of this sheet are from Lat. 36°07'N TO Lat. 36°15'N and from Long. 113°57'W TO 114°05'W. This sheet covers Iceberg Canyon and Grand Wash, Lake Mead, Nevada-Arizona.

Hydrography began on 13 Feb., 1964 and was completed on 30 July 1964.

This survey makes junction with contemporary survey H-8805 (HFP 12-3-64) on the Southwest. Scale 1:12,000.

This survey also makes junctions with prior Navy sheet No.10 on the Southwest. Scale 1:12,000 dated 1948-1949.

This survey is covered by prior Navy sheet No. 11 Scale 1:12,000 dated 1948-1949.

C.SOUNDING VESSELS

The vessels used for hydrography were launch CS 183, identified by violet day letters, launch CS 1177, identified by blue day letters, skiff 758, identified by red day letters, and photo party skiff, identified by green day letters. The photo party skiff is a 14 ft. alum. skiff used to obtain D.P.s

D.SOUNDING EQUIPMENT

Raytheon fathometers, Type DE-723 were used on this survey.

CS 183	No.	263	200KC
		543	20KC
CS 1177	No.	265	200KC
Skiff 758	No.	263 544	200KC 20KC

Daily bar checks were taken to determine the corrections to be applied for the 200KC unit, and Bathythermography observations were made to determine velocity corrections, beyond the range of the bar check.

For tabulation of correction and fathometer report see Appendix C.

In certain areas two fathometers were run simultaneously. The 200KC fathometer was operated on feet and the 20KC fathometer was operated on fathoms. This procedure was used to assist the fathometer operator in keeping up with the scales. On crosslines two fathometers were operated simultaneously, both on feet to show sedimentation.

In some instances the soundings from the 20 KC fathogram converted from fathoms to feet and placed in the sounding Volumes. Such soundings are noted in the sounding volumes by an asterisk and the word fathoms, or an abbrevation thereof, was placed in the remarks column.

E.SMOOTH SHEET

Smooth sheet projections will be furnished on request from the Washington office. Smooth sheets to be accomplished later by the processing office.

F.CONTROL

All signals were located by ground survey methods. Appendix B, contains a list of signals and indicated the methods used to locate the signals.

The hydrography was controlled by visual three point fixes. In all of the coves in which hydrography was run, where there were no available fixes, the hydrographic lines were run by dead reckoning.

The normal procedure of the hydrographer spotting his position on the beat sheet from adjacent features of the shoreline was not adherently even though a position was given at the end of the line and " see boat sheet " was placed in the sounding volumes.

The smooth plotter should plot the lines according to time and course and ignore the " see boat sheet " positions.

Since all signals had to be located by ground survey methods, the cost and time which would have been required to locate signals in all of the coves would have been prohibitive. Thus, the procedure of dead reckoning into coves was adopted for the entire project (OPR 443).

G.SHORELINE

The shoreline was transferred from a film positive of Navy sheet No.11 dated 1948 outlining the 1200 foot and the 1150 foot contours.

The 1150 foot contour is shown in red and the 1200 foot contour is shown in black on the boat sheet.

When the lake level dropped to 1150 feet above MSL, aerial infrared photographs were made. This contour was not verified by hydrography due to the low lake level at the time of hydrography.

H.CROSSLINES

Crosslines were run in excess of 8 %.

Favorable crossings were found.

I.JUNCTIONS

Depths at the junctions with contemporary survey H-8805 (HFP 12-3-64) are in agreement. Contour curves can be adequately drawn at the junction.

J. COMPARISIONS WITH PRIOR SURVEYS

Comparision with Navy sheet No.11 1948-1949, Scale 1:12,000.

有例は一個對面發揮攝影中一分小。

The prior survey was of a reconnaissance nature and no rocks or shoals were investigated.

A comparision with prior surveys show that in some areas of this sheet, soundings are shoaler by 100 ft. or more. This sheet has completely changed due to the silt deposited in this area. No hydrography was run East of Paiute Point. This area was bare at the time of hydrography.

K.COMPARISION WITH THE CHART

A comparision with chart No. C&GS 5459B 2nd. edition, Oct. 24,1955, revised Sept.2,1963 Scale 1:48,000:

All rocks and reefs indicated on the chart West of Paiute Point were plotted on the boat sheet in red pencil with their respective elevations indicated in pencil.

The following is a list of rocks and reefs that were investigated:

1.ROCK

Charted pos.

Lat.

36°10.081

Long.

114004.361

Charted elev. New elev.

1115 1107

Located on

3 k-day photo party skiff

It is recommended that the new elevation be charted.

Appd

2.ROCK

Charted pos.

Lat.

36°11.081

Long.

114°03.661

Charted elev. New elev.

1112

1116

Located on

14 b-day photo party skiff

This is not a rock but a mud bar. It is recommended that the new Apple elevation be charted.

K.COMPARISION WITH THE CHART (cont)

3. ROCK

Charted pos.

Lat.

36°11.52′

Long.

114003.31

Charted elev. New elev.

1150 1137

Located on

89 a-day CS 1177

It is recommended that the new elevation be charted. This is also the position of signal REE

Appl

4. ROCK

Charted pos.

Lat.

36°11.75′

Long.

114°03.39′

Charted elev. New elev. Located on

1123

1122

4 b-day photo party skiff It is recommended that the charted elevation be retained.

No Cor

5. ROCK

Charted pos.

Lat.

. 36⁰11.51

Long.

114002.53

Charted elev.

1100

The area was investigated and no rock was found. A rock was found about 150 meters N.W. of this rock at Lat. 36°11.56 Long. 114002.63 with a elevation of 1132. Located on 27 b-day Launch CS 183. It is recommended that the new rock be charted.

6.ROCK

Charted pos.

Lat.

36°11.03′

Long.

114002.61

Charted elev. New elev.

1144 1152

Located on

lla-day photo party skiff

It is recommended that the new elevation be charted.

L.ADEQUACY OF SURVEY

This survey is adequate to supercede prior surveys up to the 1150 foot contour. The actual hydrography covered only the area West of Paiute Point and up to about the 1125 foot contour. Above the 1150 foot contour this survey is not adequate for charting.

The area East of Paiute Point and South to Pierce Ferry anchorage was surveyed by ground survey methods and photogrammetric methods to show the 1130, 1140, 1150 and up contour curves.

M. AIDS TO NAVIGATION

There are no lighted aids to navigation on this sheet. There is a lighted post (which is just the concrete case with no light) at signal LIT (N-515,1948). The light post was located by the U.S. Geological Survey in 1948.

There are reef markers on some of the numerous reefs. All reef markers were located. The reef markers are placed at the hightest part of the reef, by the National Park Service.

The Standard National Park Service reef marker is a hard, black, rubber cylinder which is between 4.0 and 4.5 feet in length with an outside diameter of 6 inches. It is bolted to a pipe which is embedded in concrete at the top of the reef. None of the reef markers are lighted. The top two feet of the reef marker is flexable so that if hit by a boat, it would bend and probably not inflict any serious damage.

N. STATISTICS

Launch	No. of pos.	NM of sounding lines
CS 183	284	37.8
CS 1177	87	8.5
Skiff 758	236	29.0
photo party skiff	112	
, and a party with the party of	719	$\frac{0.0}{75.3}$

Total area of survey 4.3 sq. n m
Total number of bottom samples 5

Tide gages located at Hualpai Wash and Hoover Dam provided lake level control for this sheet H-8806 (HFP 12-4-64). For additional information concerning Tide gage see Appendix A of this report.

O.MISCELLANEOUS

Ahand level was used to run levels to points above the existing lake level.

The elevation shown in the sounding volumes and on the boat sheet of reefs marked by the National Park Service reef markers are to the top of the reef and not to the top of the reef markers.

The term shoreline as used in this report and in the sounding volumes is the shoreline of the lake at the time of hydrography which for this sheet varies from a lake level of 1131 to a lake level of 1108.

A contour sheet (HFP 12-4-64) has been made of this sheet. Contours were drawn at 10 foot intervels. The originals have been sent to the Bureau of Reclamation at Boulder City, Nevada. A copy has been sent to the Washington office.

The following scheme was used for placing contours on the boat sheet.

ft. above MSL	COLOR
w . A A	
1200	black
1150	
-	red
1100	orange
1050	green

A traverse was run in the area of God's Bocket Lat. 36°11.00' Long. 114°00.00' by the photo party. This work will be submitted with the sounding record for this sheet (Traverse Measurments Vol. #1). The traverse was run on h-day and j-day identified by green day letters on the boat sheet (photo party skiff).

The original field work in Vol. 5 of this sheet was copyed over in Vol. 5A and traverse Vol. # 1, to help clarify the sounding record for smooth plotting.

Respectfully submitted,

Guy F. Trefethen Surveying Tech.

APPENDIX A (Con't.)

Gage Location:

Hualpai Wash, Lake Mead, Arizona Lat. 36° 01.2' Long. 114° 07.5'

Gage Type:

Portable Automatic

Staffs Zeros:

Staff Number	Date Established	Elevation
1 2	31 December 1963 9 March 1964	1126.868

Gage was used to control boat sheets 12-1-64, 12-2-64, 12-3-64, and 12-4-64. No time or heights corrections were applied to the results obtained from the gage for reducing soundings. Gage was discontinued on 12 May 1964 and removed 7 July 1964. Hoover Dam gage was used for the remainder of the project on the above sheets without any time or height corrections applied to the results obtained from the gage in reducing soundings.

120th meridian time was used at this station.

APPENDIX B

The basic control on H-8806 (HFP 12-4-64) was USGS third-order Triangulation stations.

The majority of the signals were located as intersecting stations. The computations and field data will be submitted with the control sheet. The computations are in loose leaf binders and are divided into sections by boat sheet. Hydro signals were located by sextant.

LIST OF SIGNALS

Hydrographic survey H-8806 (HFP 12-4-64)

Triangulation stations

ALL	A-86, 1948	LIT	N-151,1948
BES	A-79, 1948	LIZ	A-80, 1948
CAN	A-71, 1948	LOR	N-148,1948
CAR	A-83, 1948	MIT	A-82, 1948
DEB	A-74,1948	NAN	A-89, 1948
DOT	A-81, 1948	PEG	A-84, 1948
FAY	A -90, 1948	RAN	N-149,1948
GAL N-145	N-145, 1948	SAL	A-796,1948
GIN	A-72, 1948	SON	A-88, 1948
GUY	N-146,1948	SUE8	A-73, 1948
JAN	A-78, 1948		A-93, 1948
LAY	A-69, 1948		A-94, 1948
			A-97, 1948

The source of this list of (toposhydro) signals is Master Control sheet (HFP 12-4-64) except as noted.

```
Topographic signals

FAR

KID

KIT

Corand Wash #2)

LOU (Grand Wash #1)

KIT

Cold

REE
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Hydro signals
BEL
BET VOL.5A, page 19
BUD
NEW
PAW
RAT
TAR
TOM VOL.4, page 16
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FATHOMETER CORRECTIONS HYDROGRAPHIC SURVEY H=8896 - (12-4-64) Lake Mead, Nevada - Arizona

Vessel: Iaunch CS-183
Day Letters: a,b,c,d
Fath. No: DE-723 - #263

· ·	A STATE OF THE STA	ا بي طبق معهد أدام الموسياً . العالم ما يوارد معا	White	
A RANGE			B RANGE	
0.0 to 16.0	+0.4		40.0 to 72.0	+0.2
16.0 to 36.0	+0.2	the same of the same	72.0 to 90.0	0.0
36.0 to 50.0	0.0			
			C RANGE	-0.4
B RANGE	0.0		D RANGE	-0.7
C RANGE	-0.3		E RANGE	-1.0
D RANGE	-0.5	ger gelektőli szazak	F RANGE	-1.3
E RANGE	-0.8		· · · · · · · · · · · · · · · · · · ·	
F RANGE	-0.9			ions above were
				rom curve for sheet
	•		12-3-64	-CS-183-u day
*Note: corrections	above were for sheat 12		Vessel: Launch	. CS_1177
CS-183 - da		04	Day Letters: a	
05=(0) = 0a	.98 4,0,1,11	4 - + 4	Fath. No: DE-7	
		A STATE OF THE STA	•	
Veseel : Taunch CS	5-183		A RANGE	0.0
Day Letters: e			B RANGE	-0.4
Fath. No: DE-723 -	- #265		C RANGE	' - 0.8
			D RANGE	-1.1
A RANGE			E RANGE	-1.4
	.0.4		F RANGE	-1.7
0.0 to 5.0	+0.6		Vessel: Skiff	758
3.5 to 24.9 24.9 to 50.0	+ 0.4 +0.2		Day Letters: 8	
24.9 60 50.0	∓ ∵• <i>⊱</i>		Fath. No: 723-	
4	4		A SCALE	
		* * * * * * * * * * * * * * * * * * * *		
			0:0 to (
			0.3 to 9	
	and the second of the second	The second second in the second secon	0.7 to 2	
			24.0 to	
$(x_1, \dots, x_n) \in \mathbb{R}^n \times \mathbb{R}^n$			40.0 to	
		e e e e e e e e e e e e e e e e e e e	44.0 00	DIRI —N 'J

APPENDIX D

Approval sheet to accompany Hydrographic Sheet H-8806 (HFP 12-4-64).

Project OPR-443

The records, corrections and all field work and office work was supervised by

H.E.McCALL, LT., USC&GS

This descriptive report was written by

GUY F. TREFETHEN, SURVEYING TECH.

This survey was conducted prior to the time I was assigned to this party. This report was written after my reporting.

Approved and Forwarded,

RICHARD E.ALDERMAN, LCDR., USC&GS

Officer-in-charge

TIDE NOTE FOR HYDROGRAPHIC SHEET

March 11, 1968

Nautical Chart Division:

R. H. Carstens

Plane of reference approved in 6 volumes of sounding records for

> 8806 HYDROGRAPHIC SHEET

Locality: Lake Mead, Nevada - Arizona

Chief of Party: H. E. McCall (1964)

Plane of reference is mean lower lake level (which is 1100 feet above sea-level datum)

Tide Station Used (Form C&GS-681):

Hualpai Wash Hoover Dam

Height of Mean High Water above Plane of Reference is as follows:

Remarks

USCOMM-DC 6480-P64

FORM 157 (3-16-55)

GEOGRAPHIC NAMES Survey No. H-8806	•	/	n de jon en	S district	de la	Had	O Guide of	Her House	N.S. Light	, ,5 ³
Name on Survey	S A	Cher.	C FO. O	D No.	or resident	On Jes Hat	O.SU G	Ristrick H	3.5. K	//
Badger Cove										f
/ 11			<u> </u>		 	1			-	1
Bradley Bay			-	<u> </u>		 				2
CENTER FOINT		<u> </u>		<u> </u>				 		3
Gods Pocket				 					-	4
Grand Wash &	2//	·				1	ļ	ļ		5
Grand Wash la	4 401	b	·		ļ	 	<u></u>	ļ		6
Grapevine Was	<i>h</i>			<u> </u>	ļ		-			7
Iceberg Canyo	12				ļ	<u> </u>			ļ	8
Painte Point	4							<u> </u>		9
PierceFerry And Twin loves	bord	90								10
Twin loves										11
			10	ne	5	701	ora	VR	1	12
			401	//	11:	1/2	36			13
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FORM C&GS-946 (REV. 11-65) (PRESC. BY HYDROG RAPHIC MANUAL 20-2, 6-94, 7-13)

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

HYDROGRAPHIC SURVEY STATISTICS HYDROGRAPHIC SURVEY NO. 8806

	RECORDS ACCOMPANYING SURVEY	: To be completed	when survey is re	gistered.
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RECO	RD DESCRIPTION		АМС	AMOUNT		RECORD DESCRIPTION		AMOUNT
SMOOTH SHEET					BOAT S	SHEETS		1
DESCRIPTIVE R	EPORT			1	OVERL	AYS		
DESCRIPTION	DEPTH RECORDS	HORIZ.		PRINT	routs	TAPE ROLLS	PUNCHED CARDS	ABSTRACTS/ SOURCE DOCUMENTS
ENVELOPES								
CAHIERS	1							
VOLUMES	. 6							
BOXES								

T-SHEET PRINTS (Liet)

SPECIAL REPORTS (List)

1 Cahier - Misc. Data filed with H-8772.

OFFICE PROCESSING ACTIVITIES

The following statistics will be submitted with the cartographer's report on the survey

		AMOL	INTS	
PROCESSING ACTIVITY	PRE- VERIFICATION	VERIFICATION	REVIEW	TQTALS
POSITIONS ON SHEET				
POSITIONS CHECKED				
POSITIONS REVISED				
DEPTH SOUNDINGS REVISED		i.		
DEPTH SOUNDINGS ERRONEOUSLY SPACED				
SIGNALS ERRONEOUSLY PLOTTED OR TRANSFERRED				
		TIME (MAI	NHOURS)	
TOPOGRAPHIC DETAILS				
JUNCTIONS				-
VERIFICATION OF SOUNDINGS FROM GRAPHIC RECORDS				
SPECIAL ADJUSTMENTS				
ALL OTHER WORK		·		
TOTALS		٠.		
PRE-VERIFICATION BY		BEGINNING DATE	ENDING	DATE
VERIFICATION BY	•	BEGINNING DATE	ENDING	DATE
REVIEW BY		BEGINNING DATE	ENDING	DATE
	: -	<u> </u>		

FORM C&G\$-946A (REV. 11-68) (PRES. BY HYDROGRAPHIC MANUAL, 8-94)

VERIFIER'S REPORT. HYDROGRAPHIC SURVEY, H = 8806

U.S. DEPARTMENT OF COMMERCE E35A COAST AND GEODETIC SURVEY

INSTRUCTIONS - This form serves to identify items of a check list in verification together with items which are separately reported to the Reviewer. The form is not to be forwarded to the Reviewer. A report, which is prepared for the Reviewer, should identify items by number and letter and will be filed in the Descriptive Report until the survey is reviewed.

- CL Check List Items: should be checked as having been completed during the verification processes.
- R Report Item: This column refers to those items reported to the reviewer and is used to indicate the items discussed.

Part I - DESCRIPTIVE REPORT	CL	R	Part III - JUNCTIONS (Continued)	CL	R
Note: The verifier should first read the Descriptive Report for general information and problems.			- 10. Junctions with contemporary surveys were satisfactory except as follows:		
 The Descriptive Report was consulted, paragraphs checked if found satisfactory, and notations were made in soft black pencil regarding action taken. Remarks Required: None 			Remarks Required: Consider conditions after adjustments have been made; note adjustments made. Make special notes of Butt junctions and areas which are SUPERSEDED.		
2. Soundings originating with the survey and mentioned in the Descriptive Report have been verified and checked in soft black pencil, including latitude and longitude, together with position identification. Remarks Required: None 3. All reference to survey sheets mentioned in			Port IV - VOLUMES 11. All items affecting the plotting of the survey which are entered in the remarks columns of the sounding records were noted and check marked. In all cases appropriate action was taken and exceptions noted in the volumes. Remarks Required: None		
the Descriptive Report should include registry number and year.			12. Condition of sounding records was satisfactory		
Remarks Required: None			except as follows:		İ
Part II - SHORELINE AND SIGNALS 4. Source of shoreline signals Remarks Required: List all surveys			Remarks Required: Mention deficiencies in completeness of notes or actions for the following:		
 Give earliest and latest dates of photo- graphs 			(a) rocks (b) line turns		
b. Field inspection date c. Field Edit date			(c) position values of beginning and ending of lines		
d. Reviewed-Unreviewed			(d) bar check or velocity correctors		ı
5. The transfer of contemporary topographic information was carefully examined and reconciled with the hydrography.			(e) time recording (f) notes or markings on fathograms		`
Remarks Required: Discuss remaining differences.			(g) was reduction of soundings accurately done?		ı
6. The plotting of all triangulation stations, topographic stations and hydrographic signals has been checked and noted in processing stamp No. 42 on the smooth sheet. Remarks Required: None			(h) was scanning accurate? (i) were peaks at uneven intervals missed? (j) were stamps completed? (k) references to adjacent features		
7. Objects on which signals are located and which fall outside of the high-water line have been described on the sheet.			Part V - PROTRACTING 13. All positions verified instrumentally were		
Remarks Required: List those signals still unidentified.			check marked in color in the sounding records, and verifier initialed the processing stamp. Remarks Required: None		
Part III - JUNCTIONS					
Note: Make a cursory comparison preliminary to inking soundings in area of overlap.			14. The protracting and plotting of all unsatisfactory crossings were verified.		
B. All junctions of contemporary or overlapping sheets were transferred in colored ink and overlapping curves were made identical.			Remarks Required: None		
Remarks Required: None 9. The notation in slanted lettering "JOINS H (19)" was added in colored ink for all veri- fied contemporary adjoining or overlapping sheets. Those not verified are shown in pencil.			15. All detached positions locating critical soundings, rocks, buoys, breakers, obstructions, kelp, etc., were verified and the position numbers are legible.		
	ľ		Remarks Required: None		

		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Part V - PROTRACTING (Continued) 16. The protracting was satisfactory except as follows: Remarks Required: Refers to protracting in general except for specific faults repeated	CL_	R	Part VIII - AIDS TO NAVIGATION 26. All fixed aids located together with those on the contemporary topographic sheets, have been shown on the survey.	CL	R _.
often, or faults in control information, which required considerable replotting or adjustments.			Remarks Required: Conflicts of any nature listed.		, · L
17. The protractor has been checked within the last three months. Remarks Required: Date of check, type of protractor and number.			27. All floating aids listed in the Descriptive Report should be verified and checked in soft black pencil, including latitude and longitude and position identification.		
Part VI - SOUNDINGS 18. All soundings are clear and legible, and critical soundings are a little larger than adjacent soundings. Remarks Required: None			Part IX - BOAT SHEET 28. The boat sheet was constantly compared with the smooth sheet with reference to notes, position of sounding lines and supplemental information.		
19. Sounding line crossings were satisfactory except as follows:			Remarks Required: None 29. Heights of rocks awash were correctly re-		
Remarks Required: Discuss adjustments. 20. The spacing of soundings as recorded in the			duced and compared with topographic infor- mation.		
records was closely followed; Remarks Required: None			Remarks Required: Note excessive con- flicts with topographic information.		
		<u></u>	Port X - GENERAL		
21. The scanning, reduction, spacing, plotting of questionable soundings have been verified.		-	30. All information on the sheet is shown in accordance with figures 82 and 83 in the Hydrographic Manual (Pub. 20-2).		
Remarks Required: None 22. The smooth plotting of soundings was satis-			Remarks Required: None		
factory except as follows:		1	·		
Remarks Required: - Refer to legibility, errors in spacing, and errors in numbers - but not to errors in scanning.			31. Unnecessary pencil notes have been removed from the sheet.		
			Remarks Required: None		<u> </u>
Part VII - CURVES 23. The depth curves have been inspected before inking. Remarks Required: By whom was the penciled curves inspected.			32 Degree, minute values and symbols have been checked; also electronic distance arcs have been properly identified and checked on the smooth sheet.		
24. The low-water line and delineation of shoal areas have been properly shown in accordance with the following:			Remarks Required: - None		
a. From T-Sheet in dotted black linesb. From soundings in orange			33. The bottom characteristics are adequately shown.		
 Approximate position of sketched curve is dashed orange 			Remarks Required: None		
 d. Approximate position of shoal area not sounded in black dashed 			Part XI - NOTES TO THE REVIEWER		
Remarks Required: None		1	34. Unresolved discrepancies and questionable soundings.		
25. Depth curves were satisfactory except as follows: (This statement should not refer to the manner in which the curves were drawn).			35. Notation of discrepancies with photogram- metric survey inserted in report of unreviewe photogrammetric survey or on copy.		
	.1				1
Remarks Required: Indicate areas where curves could not be drawn completely because of lack of soundings. For some inshore areas			36. Supplemental information.		
Remarks Required: Indicate areas where curves could not be drawn completely because of lack of soundings. For some inshore areas a general statement is sufficient.			36. Supplemental information. Date		<u> </u>
Remarks Required: Indicate areas where curves could not be drawn completely because of lack of soundings. For some inshore areas					

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

15-8806

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.

2. In "Remarks" column cross out words that do not apply.

3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

	CARTOGRAPHER	REMARKS
6/15/66	R. S. House	Part Before Review Inspection Signed Via
		Drawing No.
	,	admittle
12-12-79	Theray B. Nois	Part Before After Verification Review Inspection Signed Via
	PAL	Drawing No. 8B Exam; Considered adequately apple
		Full Part Before After Verification Review Inspection Signed Via
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FORM CAGS-8352 SUPERSEDES ALL EDITIONS OF FORM CAGS-975

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