8773

Diag. Cht. No. 526

Form 504

U. S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHIC

Field No. HFP 12-2-63 *Office No.* H-8773

LOCALITY

State NEVADA

General locality NORTHERN HALF of OVERTON ARM

Locality LAKE MEAD, NEVADA

1964

CHIEF OF PARTY
P.A.STARK, CDR.,USC&GS
H.E.Mc CALL, LT., USC&GS

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DATE

USCOMM-DC 5087

8773

FORM C&GS-537
(8-15-59)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

REGISTER NO.

H-8773

HYDROGRAPHIC TITLE SHEET

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

FIELD NO.

HFP 12-2-63

State NEVADA

General locality NORTHERN half of OVERTON ARM

Locality LAKE MEAD, NEVADA

Scale 1;12,000 Date of survey 22 July 63-30 Sept 64

Instructions dated 10 May 1963 2100-pt, s-2-219 Project No. OPR-443

Vessel Launch CS-1177

Chief of party CDR. P.A. STARK, USC&GS and LT. H.E.McCALL, USC&GS

Surveyed by G.F.TREFETHEN and R.A.LEWIS

Soundings taken by echo sounder, hand lead, pole

Graphic record scaled by PARTY PERSONNEL

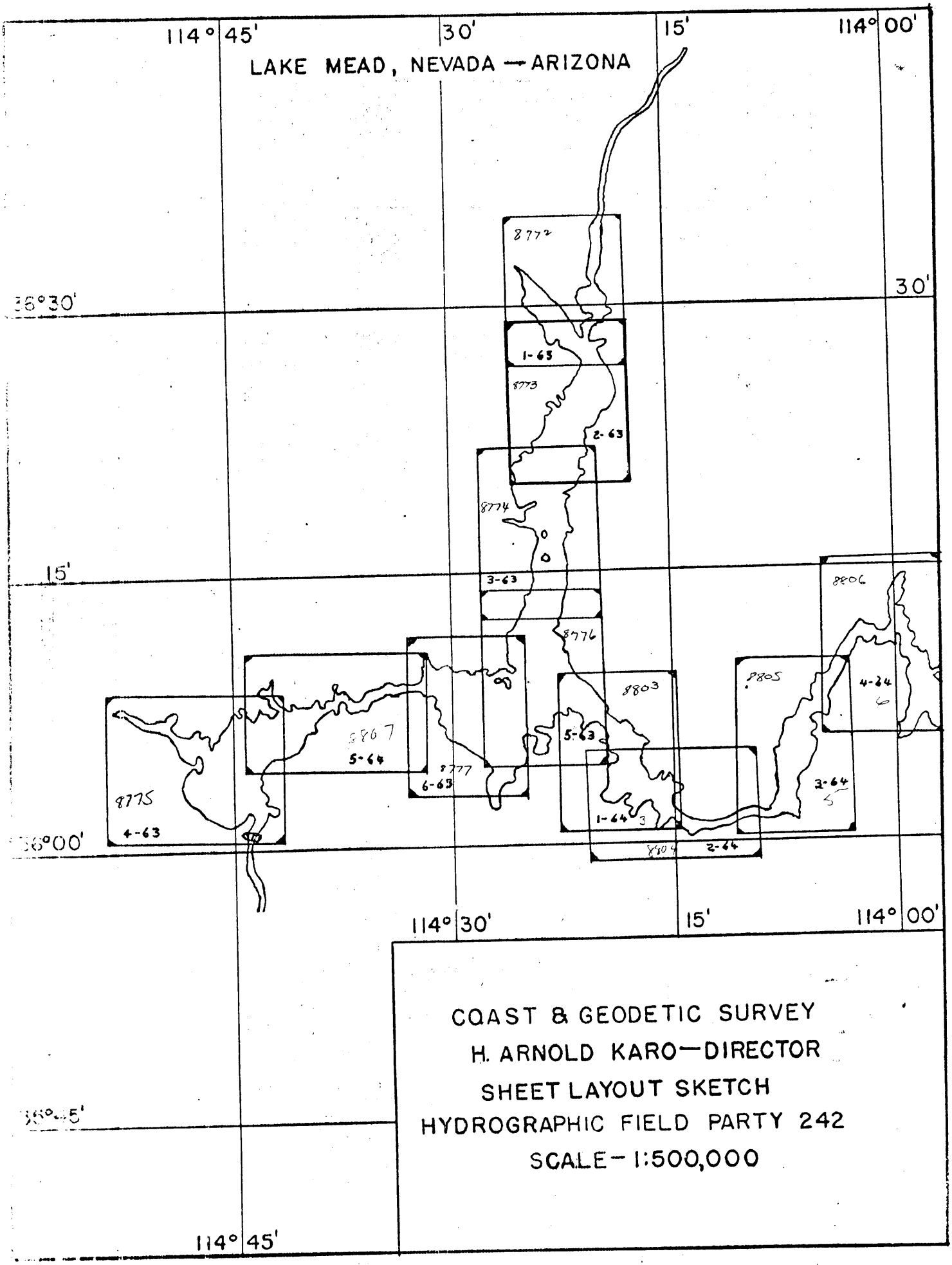
Graphic record checked by PARTY PERSONNEL

Protracted by

Soundings penciled by

Soundings in ~~fathoms~~ feet at ~~MLW~~ ~~MLLW~~ Elev. above mean sea level

REMARKS: All echo soundings are in feet and tenths of feet. All reduced soundings are converted to Elev. of feet above MSL. Soundings on the boat sheet are Elev. above MSL. Only three digits were used, the first digit in 1,000 , 1,100 and 1,200 were left off to make more room on the boat sheet for soundings. Example: Elev. 1,126 on the boat sheet will read 126.


LAKE MEAD, NEVADA — ARIZONA
114° 45'
30'
15'
114° 00'
36°30'
15'
36°00'
8772
1-63
8773
2-63
8774
3-63
8776
8803
5-63
8805
4-64
8806
8807
5-64
8777
6-63
8775
4-63
1-64
3-64
8804
2-64
COAST & GEODETIC SURVEY
H. ARNOLD KARO—DIRECTOR
SHEET LAYOUT SKETCH
HYDROGRAPHIC FIELD PARTY 242
SCALE—1:500,000

DESCRIPTIVE REPORT
TO ACCOMPANY HYDROGRAPHIC SURVEY H-8773
(Field No. HFP 12-2-63)
Project OPR-443

SCALE: 1;12,000 HFP 242

Chief of Party P.A.STARK,CDR.,USC&GS
H.E.McCALL, LT.,USC&GS

A.PROJECT

Project OPR-443 was completed in accordance with instructions 2100 B-pt, S-2-219. Dated 10 May 1963, Lake Mead, Nevada.

B.AREA SURVEYED

The geographical limits of this sheet are from Lat. 36°20' N. to Lat. 36°29' N. and from Long. 114°19' W. to Long. 114°25 W.

This sheet covers the Northern half of Overton Arm, Lake Mead Nevada.

Hydrography began on 22 July 1963 and was completed on 30 Sept. 1964.

This survey junctions with contemporary survey H-8772 (HFP 12-1-63) on the North, Scale 1;12,000 and contemporary survey H-8774 (HFP 12-3-63) on the South, Scale 1;12,000.

This survey also junctions with prior Navy survey sheet No. 7 on the North and Navy survey sheet No. 5 on the South. Both sheets are dated 1948-1949, Scale 1;12,000.

This survey is covered by prior Navy survey sheet No.6 dated 1948-1949, Scale 1;12,000.

C.SOUNDING VESSEL

The vessel used for Hydrography was the Launch CS-1177 identified by blue day letters.

D.SOUNDING EQUIPMENT

Raytheon fathometers, type DE-723 were used on Launch CS-1177. Fathometers No. 549 and No. 265 are 200KC units and were used to obtain the basic soundings. Fathometer No. 263 is a 20 KC unit and was used on crosslines.

All echo soundings corrections were obtained by bar check, for tabulation and fathometer report. See appendix C.

Two fathometers were used on "n" day for crosslines to show sedimentation.

E.SMOOTH SHEET

Smooth sheet projections will be furnished on request from the Washington office.

F.CONTROL

The hydrography was controlled by standard visual three point fix methods.

Appendix B of this report contains a complete list of control used and their sources.

In coves where hydrography was accomplished but no control was available, hydrographic lines were run by dead reckoning.

G.SHORELINE

The shoreline was transferred from a film positive of Navy sheet No.6. Dated 1948-1949 showing the 1,200 foot and 1,150 foot contours.

G.SHORELINE (cont.)

The 1,200 foot contour is shown in black on the boat sheet (12-2-63). The 1,150 foot contour is shown in brown.

Photogrammetry Division took phographs when the lake level was at 1,150 feet to provide revised shoreline.

H.CROSSLINES

Crosslines were run to the extent of 6% of the regular system of sounding lines. Favorable crossings were found.

Two fathometers, a 200KC and 20KC, were run on the foot scale for crosslines to show sedimentation.

I.JUNCTIONS

Depths at the junction with contemporary survey H-8772 (12-1-63) and H-8774 (12-3-63) are in agreement. Contour curves can be adequately drawn at the junction.

J.COMPARISONS WITH PRIOR SURVEYS

Comparison with prior survey, Navy sheet No.6 dated 1948-1949 Scale 1;12,000.

The prior Navy survey was of a reconnaissance nature and no shoals or rocks were investigated. An adequate comparison can not be made.

In general, the depths of this survey are shoaler than the depths of the prior survey. This is probably due to silt.

K.COMPARISON WITH THE CHART

Acomparison with chart No. C&GS 5458 B 2nd edition Oct. 17, 1955, Revised Sept.4, 1961 Scale 1;48,000.

All reefs and rocks indicated on the chart were plotted on an overlay of the boat sheet with their respective elevations indicated in red.

K.COMPARISON WITH THE CHART (cont.)

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

1.Rock

Charted pos.	Lat.	36°21'.06 N
	Long.	114°22'.19 W
Charted elev.		1114
New elev.		1128

Appd 6-17-66 L.P.K.

This rock was located on 12"x" day when the lake level was 1122 by running hand levels to it. It is reccomended that the new elevation be charted.

2.Rock

Charted pos.	Lat.	36°21'.22 N
	Long.	114°22'.10 W
Charted elev.		1140
New elev.		1136

Located on 42"da" day

This is not a rock. It is a point of land jutting out from the shore. It is reccomended that the new elevation be charted. Appd.

3.Rock

Charted pos.	Lat.	36°21'.48 N
	Long.	114°21'.99 W
Charted elev.		1100
New elev.		1110

This rock was located on the sounding line 112"g" to 113"g". No Corr.

K. COMPARISON WITH THE CHART (cont.)

✓4. Rock

Charted pos.	Lat.	36°21'.44 N
	Long.	114°22'.09 W
Charted elev.		1100
New elev.		1125

Appd 6-7-66 C.F.K

Located on 14"x" day

It is reccomended that the new elevation be charted.

✓5. Rocks

Charted pos.	Lat.	36°21'.66 N
	Long.	114°22'.04 W
Charted elev.		1120
Charted pos.	Lat.	36°21'.69 N
	Long.	114°22'.02 W
Charted elev.		1120
New elev.		1118 & 1125

Appd 6-7-66 C.F.K

Located on 18"x" & 17"x" day

These are not rocks but a points of land jutting out from the shore. It is reccomended that the new elevations be charted.

✓6. Rock

Charted pos.	Lat.	36°21'.60 N
	Long.	114°21'.99 W
Charted elev.		1169
New elev.		1138

1169 Retained - Falls between 1150' + 1200' curves

6-7-66 C.F.K.

Located on 16"x" day

It is reccomended that the new elevation be charted.

K.COMPARISON WITH THE CHART (cont.)

✓7.Rock

Charted pos.	Lat.	36°22.'42 N
	Long.	114°21.'45 W
Charted elev.		1130
New elev.		1123

Located on 19"x" day

This is not a rock but a point of land jutting out from the shore. It is reccomended that the new elevation be charted. App.

✓8. Rock

Charted pos.	Lat.	36°22.'63 N
	Long.	114°21.'58 W
Charted elev.		1140 — Retained 6-7-66 C.F.K.
New elev.		1124

Located on 9"ba" day

This is not a rock but a point of land jutting out from the shoreline. The sounding line shows a 1140 elevation 50 meters East of pos. 9"ba". It is reccomended that the charted elevation be retained.

✓9.Rock

Charted pos.	Lat.	36°22.'49 N
	Long.	114°22.'41 W
Charted elev.		1107
New elev.		1100

Located on 3"ea" day

This rock was investigated on "da" day by running closely spaced lines over the area. This rock was also located, see position 3"ea". It is reccomended that the new elevation be charted. Shows as it.

K.COMPARISON WITH THE CHART (cont.)

10.Rock

Charted pos.	Lat.	36°22'.60 N
	Long.	114°22'.38 W
Charted elev.		1109
New elev.		1089

This rock was investigated on "da" day by running closely spaced lines over the area. Shown as 1108

11.Rock

Charted pos.	Lat.	36°22'.70 N
	Long.	114°22'.58 W
Charted elev.		1130
New elev.		1127

This rock was located on the sounding line, see positions 111 to 112"k" day. This rock was also located on 13 and 14"u", the N.W. and S.E. ends. It is reccomended that the new elevation be charted. Appd

12.Rock

Charted pos.	Lat.	36°22'.85 N
	Long.	114°22'.65 W
Charted elev.		1127
New elev. pos. 12u		1146' Appd 6-7-66 A.F.K.

This is not a rock but a large point of land jutting out from the shore. This point of land was located by D.P.s on 10,11,12,15, 16,17, and 18"u" day. It is reccomended that the new elevation be charted.

Lat 36°22'.83
Long 114°22'.62

Newelevation pos. 15u 1143' Appd 6-7-66

K.COMPARISON WITH THE CHART (cont.)

13.Rock

Charted pos.	Lat.	36°22.'98 N
	Long.	114°23.'08 W
Charted elev.		1146
New elev.		1154

Located on 10"t" day

It is reccomended that the new elevation be charted. Appd

14.Rock

Charted pos.	Lat.	36°22.'91 N
	Long.	114°23.'09 W
Charted elev.		1146

This rock was visually ~~inspected~~ searched for at a lake level of 1123 and no evidence of the rock was found to exist. 1107 at this Pos. - No Corr.

15.Rock

Charted pos.	Lat.	36°22.'85 N
	Long.	114°23.'49 W
Charted elev.		1165 ~~1160~~
New elev.		1152

Located on 10"s" day

It is reccomended that the new elevation be charted. Appd

16.Rock

Charted pos.	Lat.	36°22.'85 N
	Long.	114°23.'42 W
Charted elev.		1132
New elev.		1143

Located on 9"s"

It is reccomended that the new elevation be charted. No Corr.

K.COMPARISON WITH THE CHART (cont.)

17.Rock

Charted pos.	Lat.	36°22.'75 N
	Long.	114°23.'38 W
Charted elev.		1132
New elev.		1134

Located on 7"s"

It is reccomended that the new elevation be charted. Appd

18.Rock

Charted pos.	Lat.	36°21.'81 N
	Long.	114°23.'69 W
Charted elev.		1127
New elev.		~~1118~~ 1119

Located on 36"da"

It is reccomended that the new elevation be charted. Appd 1119

19.Rock

Charted pos.	Lat.	36°21.'73 N
	Long.	114°23.'83 W
Charted elev.		1125
New elev.		1115

Located on 32"da"

It is reccomended that the new elevation be charted. Appd

20.Rock

Charted pos.	Lat.	36°21.'58 N
	Long.	114°24.'09 W
Charted elev.		1108 Retained 6-7-66 C.F.K.

This rock was not investigated, a sounding of 1104 was found on 132"g". It is reccomended that the charted elevation be retained.

K.COMPARISON WITH THE CHART (cont.)

21.Rock

Charted pos.	Lat.	36°21.'71 N
	Long.	114°24.'18 W
Charted elev.		1155
New elev.		1146

Located on 4"s"

It is reccomended that the new elevation be charted. Appd

22.Rock

Charted pos.	Lat.	36°23.'02 N
	Long.	114°23.'09 W
Charted elev.		1145
New elev.		1139

Located on 1"u"

It is reccomended that the new elevation be charted. Appd

23.Rock

Charted pos.	Lat.	36°23.'05 N
	Long.	114°23.'11 W
Charted elev.		1145
New elev.		1139

Located on 2"u"

It is reccomended that the new elevation be charted. Appd

24.Rock

Charted pos.	Lat.	36°23.'88 N
	Long.	114°20.'81 W
Charted elev.		1158
New elev.		1149

Located on 11"w"

It is reccomended that the new elevation be charted. Appd

K.COMPARISON WITH THE CHART (cont.)

25.Rock

Charted pos.	Lat.	36°25'.21 N
	Long.	114°20'.05 W
Charted elev.		1138 ← Retained this elevation
New elev.		1130

This rock was not investigated. Sounding lines in the area show no indication of this rock. The 1130 foot elevation between 186 to 187 "k" day is the shoalest sounding in the area.

Rocks that were not investigated..

Reefs,rocks,or ledges above 1150 feet above MSL were not investigated, except that all National Park Service Reef Markers were located.

L.ADEQUACY OF SURVEY

This survey is considered adequate to supercede prior surveys for charting purposes up to the 1,150 foot contour. Above the 1,150 foot contour this survey is not adequate for charting.

M.AIDS TO NAVIGATION

There is one fixed aid to navigation in the area surveyed. This aid is a light and was established by the National Park Service at Lat. 36°23'.12 Long. 114°22'.55. This light was located on 9"v" day and that position is the only position this party has.

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

All aids and reef markers are maintained by the National Park Service.

The standard National Park Service reef marker is a hard,black, rubber cylinder which is between 4.0 feet 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

M.AIDS TO NAVIGATION (cont.)

markers are lighted. The top two feet of the reef marker is flexible so that if struck by a boat, it would bend and probably not inflict any serious damage.

N.STATISTICS

LAUNCH	No. of Positions	Nautical Miles of Sounding Lines
CS 1177	2,229	301.8

Total Area of Survey 11.7 sq. NM

Total No. of Bottom Samples 19

A portable automatic Tide Gage, located at the Virgin River entrance provided lake level control for this sheet H-8773 (HFP 12-2-63). For additional information concerning tides and tide gages see Appendix A.

O.MISCELLANEOUS

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

The elevations shown in the sounding volumes and on the boat sheet of reefs marked by National Park Service reef markers are to the top of the reefs 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.

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

CONTOUR feet above MSL	COLOR
1200	black
1150	brown
1100	orange
1050	green
1000	red

Respectfully submitted,

George L. Fernandez
FOR Guy F. Trefethen
Surveying Tech.

Gage Location: Overton Arm, Lake Mead, Nevada
Lat. 36° 28.73'
Long. 114° 20.28'

Gage Type: Portable Automatic

Staffs Zeros:

Staff Number	Date Established	Elevation
1	16 July 1963	1168.765
2	15 August 1963	1158.720

Staffs Number 1 and 2 — Vitrified scale - no time or height corrections were applied to the results obtained from the gage in reducing soundings

Gage was used to control sheets 12-1-63, 12-2-63, and 12-3-63. Boulder Wash heights were used after 11September 1963 for the completion of the above sheets with no corrections applied to the results obtained from the gage.

105th meridian time was used at this station.

APPENDIX B

The basic control on H-8773 (HFP 12-2-63) was USGS third-order triangulation stations. Additional topographic signals were located by tellurometer and T-2. Hydrographic signals were located by sextant.

LIST of SIGNALS
Hydrographic Survey H-8773 (HFP 12-2-63)

TRIANGULATION STATIONS

GIN	N-70, 1948
LAX	N-63, 1948
OLD	N-69, 1948
PAR	N-79, 1948
ROD	N-75, 1948
VEX	N-78, 1948
WES	N-73, 1948

TOPOGRAPHIC SIGNALS

BAH	Master control sheet HFP 12-2-63
BIB	Master control sheet HFP 12-1-63
CAM	Master control sheet HFP 12-2-63
COP	Master control sheet HFP 12-2-63
DEB	Master control sheet HFP 12-2-63
DIX	Master control sheet HFP 12-2-63
EBB	Master control sheet HFP 12-2-63
EEL	Master control sheet HFP 12-2-63
END	Master control sheet HFP 12-2-63
EVA	Master control sheet HFP 12-2-63
FEZ	Master control sheet HFP 12-2-63
FOX	Master control sheet HFP 12-2-63
GAG	Master control sheet HFP 12-1-63
GAS	Master control sheet HFP 12-2-63
GIP	Master control sheet HFP 12-2-63
HOP	Master control sheet HFP 12-2-63
HUT	Master control sheet HFP 12-2-63
IDA	Master control sheet HFP 12-2-63
IVY	Master control sheet HFP 12-2-63
JAR	Master control sheet HFP 12-2-63
JOB	Master control sheet HFP 12-2-63
JOY	Master control sheet HFP 12-2-63
JUG	Master control sheet HFP 12-2-63
KED	Master control sheet HFP 12-1-63

TOPOGRAPHIC SIGNALS (cont.)

KIM	Master control sheet HFP 12-2-63
LAD	Master control sheet HFP 12-1-63
MAL	Master control sheet HFP 12-1-63
MAN	Master control sheet HFP 12-2-63
MUG	Master control sheet HFP 12-2-63
NOR	Master control sheet HFP 12-2-63
OAK	Master control sheet HFP 12-1-63
OFF	Master control sheet HFP 12-2-63
PAL	Master control sheet HFP 12-2-63
PAW	Master control sheet HFP 12-2-63
PET	Master control sheet HFP 12-2-63
PRO	Master control sheet HFP 12-2-63
RAB	Master control sheet HFP 12-2-63
RAM	Master control sheet HFP 12-2-63
RUM	Master control sheet HFP 12-2-63
SIC	Master control sheet HFP 12-2-63
TAX	Master control sheet HFP 12-1-63
TEX	Master control sheet HFP 12-2-63
TIN	Master control sheet HFP 12-2-63
VIA	Master control sheet HFP 12-2-63
WAS	Master control sheet HFP 12-2-63
WEE	Master control sheet HFP 12-2-63
ZIC	Master control sheet HFP 12-2-63

HYDROGRAPHIC SIGNALS

BOX	Vol. 10, page 46
CAT	Master control sheet HFP 12-2-63
FOG	Master control sheet HFP 12-2-63
JEM	Vol. 2, page 3
JOE	Master control sheet HFP 12-2-63
MAT	Master control sheet HFP 12-2-63
MIS	Master control sheet HFP 12-3-63
MOP	Master control sheet HFP 12-2-63
NUT	Master control sheet HFP 12-2-63
RAT	Vol. 10, page 46
RIO	Master control sheet HFP 12-2-63
SHE	Master control sheet HFP 12-2-63
SIG	Vol. 10, page 38
TOM	Vol. 2, page 72
TRI	Vol. 4, page 7
VET	Master control sheet HFP 12-2-63
WAR	Master control sheet HFP 12-2-63
ZIP	Master control sheet HFP 12-2-63

FATHOMETER CORRECTIONS

HYDROGRAPHIC SURVEY H-8773 - (12-2-63)
Lake Mead, Nevada - Arizona

Vessel: Launch CS-1177
Day Letters: a,b,c,d,e,f,g,h,j,k,l
m,n,p
Fath. No. DE-723 - #549

0.0 to 18.0	0.0
18.1 to 24.0	+0.2
24.1 to 33.0	+0.4
33.1 to 39.0	+0.6
39.1 to 48.0	+0.8
48.1 to 66.0	+1.0
66.1 to end of all ranges	+1.2

Note: There are no corrections between ranges.

Vessel: Launch CS-1177
Day Letters: q
Fath. No. DE-723 - #549

A SCALE

0.0 to 7.0	0.0
7.1 to 12.0	+0.2
12.1 to 21.4	+0.4
21.5 to 26.0	+0.6
26.1 to 30.0	+0.8
30.1 to 38.6	+1.0
38.7 to 42.0	+1.2
42.1 to end of scale	+1.4

B SCALE

42.0 to 48.0	+1.0
48.1 to 63.4	+1.2
63.5 to 72.0	+1.4
72.1 to 80.0	+1.6
80.1 to end of scale	+1.8

Vessel: Launch CS-1177
Day Letters: y
Fath. No; DE-723 - #265

A SCALE

0.0 to 18.9	0.0
18.9 to 37.2	+0.2
37.2 to 50.0	+0.4

B SCALE

40.0 to 62.2	0.0
62.2 to 90.0	+0.2

Vessel: Launch CS-1177
Day Letters: aa,ba,ca,da,ea
Fath. No: DE-723 - #265

A SCALE

0.0 to 6.0	0.0
6.0 to 15.0	+0.2
15.0 to 26.0	+0.4
26.0 to 38.0	+0.6
38.0 to 48.0	+1.0

B SCALE

48.0 to 66.0	+1.0
66.0 to 72.0	+1.2
72.0 to 90.0	+1.4

APPENDIX D

Approval sheet to accompany Hydrographic sheet H-8773
(HFP 12-2-63)

Project OPR-443

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

P.A.STARK, CDR.,USC&GS and
H.E.McCALL, LT.,USC&GS

This descriptive report was written by
GUY F. TREFETHEN Surveying Tech.

The report and records for this survey are complete and adequate to the best of my knowledge.

Approved and forwarded

Harold E. McCall

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

Officer - in - charge

FORM C&GS-712
(3-9-64)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

TIDE NOTE FOR HYDROGRAPHIC SHEET

March 11, 1968

Nautical Chart Division: R. H. Carstens

Plane of reference approved in
11 volumes of sounding records for

HYDROGRAPHIC SHEET 8773

Locality: Lake Mead, Arizona - Nevada

Chief of Party: P. A. Stark; H. E. McCall (1963-64)

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

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

Overton Arm
Boulder Wash

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

Remarks

J. M. Symons
Chief, Tides and Currents Branch

USCOMM-DC 6680-P64

FORM 197
(3-16-55)

GEOGRAPHIC NAMES

Survey No. H-8773

Name on Survey	A On Chart No.	B On previous survey No.	C On U. S. quadrangle Maps	D From local information	E On local Maps	F P. O. Guide or Map	G Rand McNally Atlas	H U. S. Light List	K	
Black Point										1
Black Ridge Island										2
Fish Island										3
Fire Bay										4
Mud Wash										5
Rogers Wash										6
Overton Beach										7
Salt Cove										8
Salt Point										9
Stewarts Bay										10
Stewarts Point										11
										12
		Names approved								13
		April 2, 1962								14
		Frank W. Hackett								15
										16
										17
										18
										19
										20
										21
										22
										23
										24
										25
										26
										27

FORM C&GS-946
(REV. 11-65)
(PRESC. BY HYDROGRAPHIC 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. 8773

RECORDS ACCOMPANYING SURVEY: To be completed when survey is registered.

RECORD DESCRIPTION	AMOUNT	RECORD DESCRIPTION	AMOUNT
SMOOTH SHEET		BOAT SHEETS	1
DESCRIPTIVE REPORT	1	OVERLAYS	

DESCRIPTION	DEPTH RECORDS	HORIZ. CONT. RECORDS	PRINTOUTS	TAPE ROLLS	PUNCHED CARDS	ABSTRACTS/ SOURCE DOCUMENTS
ENVELOPES						
CAHIERS	1					
VOLUMES	II					
BOXES						

T-SHEET PRINTS *(List)*

SPECIAL REPORTS *(List)*

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

OFFICE PROCESSING ACTIVITIES

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

PROCESSING ACTIVITY	AMOUNTS			
	PRE-VERIFICATION	VERIFICATION	REVIEW	TOTALS
POSITIONS ON SHEET				
POSITIONS CHECKED				
POSITIONS REVISED				
DEPTH SOUNDINGS REVISED				
DEPTH SOUNDINGS ERRONEOUSLY SPACED				
SIGNALS ERRONEOUSLY PLOTTED OR TRANSFERRED				
	TIME (MANHOURS)			
TOPOGRAPHIC DETAILS				
JUNCTIONS				
VERIFICATION OF SOUNDINGS FROM GRAPHIC RECORDS				
SPECIAL ADJUSTMENTS				
ALL OTHER WORK				
TOTALS				

PRE-VERIFICATION BY	BEGINNING DATE	ENDING DATE
VERIFICATION BY	BEGINNING DATE	ENDING DATE
REVIEW BY	BEGINNING DATE	ENDING DATE

USCOMM-DC 36271-P65

FORM C&GS-946A
(REV. 11-65)
(PRES. BY HYDROGRAPHIC MANUAL, 6-94)

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

VERIFIER'S REPORT

HYDROGRAPHIC SURVEY, H-8773

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
Note: The verifier should first read the Descriptive Report for general information and problems.		
1. The Descriptive Report was consulted, paragraphs checked if found satisfactory, and notations were made in soft black pencil regarding action taken. Remarks Required: -- None		
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 the Descriptive Report should include registry number and year. Remarks Required: -- None		
Part II - SHORELINE AND SIGNALS		
4. Source of shoreline signals Remarks Required: -- List all surveys a. Give earliest and latest dates of photographs b. Field inspection date c. Field Edit date d. Reviewed-Unreviewed		
5. The transfer of contemporary topographic information was carefully examined and reconciled with the hydrography. Remarks Required: -- Discuss remaining differences.		
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		
7. Objects on which signals are located and which fall outside of the high-water line have been described on the sheet. Remarks Required: -- List those signals still unidentified.		
Part III - JUNCTIONS		
Note: Make a cursory comparison preliminary to inking soundings in area of overlap.		
8. All junctions of contemporary or overlapping sheets were transferred in colored ink and overlapping curves were made identical. Remarks Required: -- None		
9. The notation in slanted lettering "JOINS H---- (19)" was added in colored ink for all verified contemporary adjoining or overlapping sheets. Those not verified are shown in pencil. Remarks Required: -- None		

Part III - JUNCTIONS (Continued)	CL	R
10. Junctions with contemporary surveys were satisfactory except as follows: Remarks Required: -- Consider conditions after adjustments have been made; note adjustments made. Make special notes of **Butt** junctions and areas which are **SUPERSEDED.**		
Part 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		
12. Condition of sounding records was satisfactory except as follows: Remarks Required: -- Mention deficiencies in completeness of notes or actions for the following: (a) rocks (b) line turns (c) position values of beginning and ending of lines (d) bar check or velocity correctors (e) time recording (f) notes or markings on fathograms (g) was reduction of soundings accurately done? (h) was scanning accurate? (i) were peaks at uneven intervals missed? (j) were stamps completed? (k) references to adjacent features		
Part V - PROTRACTING		
13. All positions verified instrumentally were check marked in color in the sounding records, and verifier initialed the processing stamp. Remarks Required: -- None		
14. The protracting and plotting of all unsatisfactory crossings were verified. Remarks Required: -- None		
15. All detached positions locating **critical** soundings, rocks, buoys, breakers, obstructions, kelp, etc., were verified and the position numbers are legible. Remarks Required: -- None		

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Part V - PROTRACTING (Continued)	CL	R
16. The protracting was satisfactory except as follows: Remarks Required: -- Refers to protracting in general except for specific faults repeated often, or faults in control information, which required considerable replotting or adjustments.		
17. The protractor has been checked within the last three months. Remarks Required: -- Date of check, type of protractor and number.		
Part VI - SOUNDINGS		
18. All soundings are clear and legible, and critical soundings are a little larger than adjacent soundings. Remarks Required: -- None		
19. Sounding line crossings were satisfactory except as follows: Remarks Required: -- Discuss adjustments.		
20. The spacing of soundings as recorded in the records was closely followed; Remarks Required: -- None		
21. The scanning, reduction, spacing, plotting of questionable soundings have been verified. Remarks Required: -- None		
22. The smooth plotting of soundings was satisfactory except as follows: Remarks Required: -- Refer to legibility, errors in spacing, and errors in numbers - but not to errors in scanning.		
Part VII - CURVES		
23. The depth curves have been inspected **before** inking. Remarks Required: -- By whom was the penciled curves inspected.		
24. The low-water line and delineation of shoal areas have been properly shown in accordance with the following: a. From T-Sheet in dotted black lines b. From soundings in orange c. Approximate position of sketched curve is dashed orange d. Approximate position of shoal area **not sounded** in black dashed Remarks Required: -- None		
25. Depth curves were satisfactory except as follows: (This statement should not refer to the manner in which the curves were drawn). 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.		

Part VIII - AIDS TO NAVIGATION	CL	R
26. All fixed aids located together with those on the contemporary topographic sheets, have been shown on the survey. Remarks Required: -- Conflicts of any nature listed.		
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. 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. Remarks Required: -- None		
29. Heights of rocks awash were correctly reduced and compared with topographic information. Remarks Required: -- Note excessive conflicts with topographic information.		
Part X - GENERAL		
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		
31. Unnecessary pencil notes have been removed from the sheet. Remarks Required: -- None		
32. Degree, minute values and symbols have been checked; also electronic distance arcs have been properly identified and checked on the smooth sheet. Remarks Required: -- None		
33. The bottom characteristics are adequately shown. Remarks Required: -- None		
Part XI - NOTES TO THE REVIEWER		
34. Unresolved discrepancies and questionable soundings.		
35. Notation of discrepancies with photogrammetric survey inserted in report of unreviewed photogrammetric survey or on copy.		
36. Supplemental information.		

Verified by	Date

FORM C&GS-8352
(3-25-63)

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. H-8773

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.

CHART	DATE	CARTOGRAPHER	REMARKS
661-SC	6-7-66	Charles A. Kupiec	~~Full~~ Part Before ~~After Verification~~ Review Inspection Signed Via
			Drawing No.
18687B	12-12-79	Gregory B. Norris	adequately ~~Full Part~~ Before ~~After Verification~~ Review Inspection Signed Via
(661 sc)		RAL	Drawing No. 8B Considered adequately app'd
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
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			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.

Part. Applied for cht 661 SC, Side A. 6-7-66 C.F. Kupiec