
Form 504
U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey  Shoreline  T-12563 thru
Field No. Ph-21414  Office No. T-12573

LOCALITY

State  Arizona - Nevada
General locality  Lake Mead
Locality

1963

CHIEF OF PARTY
G.R. Cichy, Chief of Field Party
J.E. Waugh, Div. Of Photo., Wash., D.C.

LIBRARY & ARCHIVES

DATE  September 1964
**DESCRIPTIVE REPORT - DATA RECORD**

**PROJECT NO.** (111):  
12310-801 (21414)

**FIELD OFFICE** (111):  
Boulder City, Nevada

**PHOTOMERIC OFFICE** (111):  
Washington, D.C.

**CHIEF OF PARTY**  
Gerald R. Cichy

**OFFICER-IN-CHARGE**  
J.E. Waugh

**INSTRUCTIONS DATED** (111):  
March 30, 1964  
April 1, 1964  
May 6, 1964  
Supplement No. 1

**METHOD OF COMPILATION** (111):  
Multiplex and Kelsh

**MANUSCRIPT SCALE** (111):  
1 : 12,000

**STEREOSCOPIC PLOTTING INSTRUMENT SCALE** (111):  
Multiplex 1 : 10,000  
Kelsh 1 : 14,800

**DATE RECEIVED IN WASHINGTON OFFICE** (111):  

**DATE REPORTED TO NAUTICAL CHART BRANCH** (111):  

**APPLIED TO CHART NO.**  

**DATE:**  

**DATE REGISTERED** (111):  

**GEOGRAPHIC DATUM** (111):  
N.A. 1927

**VERTICAL DATUM** (111):  
Lake level at 1150 Ft. MSL

**REFERENCE STATION** (111):  

**LAT.**  

**LONG.**  

☐ ADJUSTED  
☐ UNADJUSTED

**PLANE COORDINATES** (111):  

**STATE**  
Nevada

**ZONE**  
East

ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (111) FIELD PARTY, (111) PHOTOGRAMMETRIC OFFICE, OR (111) 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:*

**MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):**

- Time and date of photography:  
- Office interpretation

**PROJECTION AND GRIDS RULED BY (IV):**

*DATE*

**PROJECTION AND GRIDS CHECKED BY (IV):**

*DATE*

**CONTROL PLOTTED BY (III):**

- J.C. Richter  
- Jan.-May, 1964

**CONTROL CHECKED BY (III):**

- J.A. Mooney  
- Jan.-May, 1964

**RADAR PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):**

- J.C. Richter  
- Jan.-May, 1964

**STEREOSCOPIC INSTRUMENT COMPILATION (III):**

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<thead>
<tr>
<th>PLANIMETRY</th>
<th>J.C. Richter</th>
<th>DATE</th>
<th>J.C. Richter</th>
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**MANUSCRIPT DELINEATED BY (III):**

- M. Webber  
- Jan.-May, 1964

**SCRIBING BY (III):**

*DATE*

**PHOTOMGRAMMETRIC OFFICE REVIEW BY (III):**

*DATE*

**REMARKS:**

*USCOM-Dc 16278B-P61*
### DESCRiptive report - data record

**Camera (kind or source) (iii):**

Single lens "K" and "W" 6 inch focal length

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**Tide (iii):**

Reference Station:

Subordinate Station:

Subordinate Station:

Washington Office Review by (iv):

Proof Edit by (iv):

Number of Triangulation Stations Searched for (ii): 61

Recovered: 61  Identified: 61

Number of BM(s) Searched for (ii):

Recovered:  Identified:

Number of Recoverable Photo Stations Established (iii):

Number of Temporary Photo Hydro Stations Established (iii):

Remarks:
Photographs for Project 21414  
Lake Mead

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Panchromatic

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Lake Mead, Arizona, Nevada,

Project No. 241414

January thru June, 1964

Photogrammetric Plot Report.

21. Area Covered.

This report comprises eleven manuscripts covering Lake Mead. The surveys included are T-12563 thru T-12573.

22. Method.

The multiplex was used for horizontal bridging on 1:10,000 scale mylar base sheets with Nevada State Grid ruled at 5000 foot intervals.

The attached sketch shows photographs and control that was used in the bridging.

Bridging was started at the Northern part of Overton Arm and run South to Virgin Basin. Then starting at the West end of Las Vegas Bay and running East to connect with Virgin Basin. Then starting at the East end of Pierces Ferry Basin and running into Virgin Basin.

The photographs used were single lens infrared at 1:24,000 scale and single lens panchromatic at 1:24,000 scale. The latter was used in the bridge for pass points to be used to contour the Northern part of Overton Arm and at the Eastern end of Pierces Ferry Basin.

All photographs were taken with the lake level at 1150 feet above mean sea level.

Pass points were established for reference and the shoreline, foreshore rocks and islands were delineated for transfer to 1:12,000 Manuscripts.

23. Adequacy of control.

Sixty one triangulation stations were used to control the bridges. Forty five of these stations were premarked and located on the photographs. One was premarked but had to be located by substitute stations and fifteen additional stations were field identified by substitute stations.

Each bridge had a minimum of two control stations, one at each end. Maximum of eight projectors in any one bridge.
23 (con't)

All stations held good except for station Gorge 1. This station was located by state coordinates by the field party and the position identified on the photograph was approximately 425 feet south west of the plotted position.

Some of the substitute stations were very difficult to see due to the small images pricked for multiplex and some were due to no contrast of the photographs. At least one substitute station at each station could be seen and held.

24. Supplemental data.

None

25. Photography.

The photographs were adequate as to coverage, overlap and definition.

Quality of the diapositives was good.

Respectfully submitted

John C. Richter
Carto.

Approved and forwarded.
31. DELINEATION.
   The shoreline was delineated by muliplex on 1:10,000 scale
   work sheets then reduced on the vertical projector to 1:12,000 scale
   application to manuscripts.
   There is no field inspection for this area.

32. CONTROL.
   Control was adequate.

33. SUPPLEMENTAL DATA.
   U.S.G.S. Quadrangles, Iceberg Canyon 1953, Virgin Basin 1953,
   Henderson 1952, Overton Beach 1953 and Hoover Dam 1953 scale 1:62,500
   was used for Geographic Names.

34. CONTOURS AND DRAINAGE.
   Drainage, no comment.
   Contours were delineated by Kelso at 1:12,000 scale holding
   vertical control points established by the field party on 1:24,000
   scale panchromatic contact photographs.
   The area of Pierces Ferry Basin was the only area contoured
   in this office.

35. SHORELINE AND ALONGSHORE DETAILS.
   All shoreline was delineated from office interpretation
   from infrared photography. There is no lowwater lines.

36. OFFSHORE DETAILS.
   No comment.

37. LANDMARKS AND AIDS.
   Inapplicable.

38. CONTROL FOR FUTURE SURVEYS.
   Inapplicable.

39. JUNCTIONS.
   All manuscripts are in agreement.

40. HORIZONTAL AND VERTICAL ACCURACY.
   No comment.

41 thru 45.
   Inapplicable
46. COMPARISON WITH EXISTING MAPS.
Comparison has been made with U.S.G.S. Quadrangles
Iceberg Canyon 1953, Virgin Basin 1953, Henderson 1952, Hoover Dam
1953 and Overton Beach 1953 scale 1:62,500 and is in good agreement
except for the area north of The Narrows in Virgin Arm which is now
filled with sediment and only a small stream is shown instead of the
lake. The same applies to the area South East of Piaute Point to the
entrance of the Colorado River into Lake Mead.

47. COMPARISON WITH NAUTICAL CHARTS.
Comparison has been made with nautical charts No.5457A-5457B
Items to be applied to nautical charts immediately.
The area north of The Narrows to the Virgin River in
the northern part of Overton Arm and the area from Piaute Point to
the Lower Granite Gorge is now full of sediment.
Items to be carried forward.
None.

Respectfully submitted
John C. Richter
Cartographer
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<th>SOURCE OF INFORMATION</th>
<th>DATUM</th>
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<th>LONGITUDE OR x-CORDINATE</th>
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1 FT. = 0.3048006 METER

COMPUTED BY: J.C. Richter
DATE: May, 1964
CHECKED BY: J.A. Mooney
DATE: May, 1964

SCALE OF MAP: 1:12,000

SCALE FACTOR:

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
DESCRIPTION REPORT
CONTROL RECORD

MAP T-12563
PROJECT NO. 21
SCALE OF MAP: 1:12,000
SCALE FACTOR:

1 FT. = 0.3048006 METER

COMPUTED BY: J.C. Richter
DATE: May, 1964
CHECKED BY: J.A. Mooney
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1 FT. = .3048005 METER

COMPUTED BY: J.C. Richter                  DATE: May, 1964

CHECKED BY: J.A. Mooney                   DATE: May, 1964
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1 ft. = 0.3048006 meter

COMPUTED BY: J.C. Richter
DATE: May, 1964
CHECKED BY: J.A. Mooney
DATE: May, 1964
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1 FT = 304.8006 METER

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CHECKED BY J.A. Mooney  DATE May, 1964
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1 FT. = 0.3048006 METER
COMPUTED BY J.C. Richter
DATE May, 1964
CHECKED BY J.A. Mooney
DATE May, 1964

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

SCALE OF MAP 1:12,000
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1 FT. = 30.48006 METER

COMPUTED BY J.C. Richter

DATE May, 1964

CHECKED BY J.A. Mooney

DATE May, 1964
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1 FT. = 0.3048008 METER

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<td>953682.92</td>
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<td>501855.14</td>
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1 FT. = 30.48006 METER

COMPUTED BY J.C RICHTER
DATE May, 1964
CHECKED BY J.A. MOONEY
DATE May, 1964
Black Island
Boulder Basin
Boulder Beach
Boulder Islands
Colorado River
Gypsum Wash
Hemenway Boat Harbor
Hemenway Wash
Lake Mead
Lake Mead Lodge
Lake Shore Highway
Las Vegas Bay
Las Vegas Beach
Las Vegas Wash
Saddle Island
Yacht Harbor

A. J. Wraight
Geographic Names Section
GEOGRAPHIC NAMES
Ph 21414 (Nevada-Arizona)

T-12564

Arch Mountain                  James Bay
Beacon Rock                    Kingman Wash
Bearing Peak                   Lake Mead
Black Canyon                   Lovell Wash
Black Mountains                Paint Pots
Borax Wash                     Petroglyph Wash
Boulder Basin                  Promontory Point
Boulder Canyon                 Pyramid Peak
Boulder Peak                   Saddle Mountain
Bouder Wash                    Sandstone Spring
Burro Point                    Sandy Cove
Callville Bay                  Sentinel Island
Canyon Point                   Sugarloaf Mountain
Canyon Ridge                   Virgin Basin
Castle Reef                    West End Wash
Colorado River                 Wishing Well Cove
Fortification Hill             Callville Wash
Fortification Ridge            
Gilbert Canyon                 
Guardian Peak                  
Hamblin Bay                    
Hoover Dam                     
Indian Canyon
GEOGRAPHIC NAMES
Ph 21414 (Virgin Basin, Nev.-Ariz.)

T-12565

Boathouse Cove
Bonelli Landing
Colorado River
Bonelli Bay
Crescent Cove
Detrital Reefs
Lake Mead
Middle Point Islands
Virgin Basin

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East Gypsum Bay
East Point
Gypsum Ledges
Gypsum Reefs
Lake Mead
Middle Point
Mushroom Reef
Napoleons Tomb
The Campanile
The Head
Virgin Basin
Walker Wash
West Gypsum Bay
Grebe Bay

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GEOGRAPHIC NAMES
Ph 21414 (Virgin Basin, Nev.-Ariz.)

T-12567

Cataract Wash
Catclaw Wash
Cleopatra Cove
Cleopatra Wash
Cormorant Rock
Manganese Wash
Miners Cove
Overton Arm
Lake Mead
Surprise Reef
Twin Springs

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Geographic Names Section
GEOGRAPHIC NAMES
Ph 21414 (Overton Beach, Nevada)

T-12568

Bighorn Island
Black Mountains
Black Point
Black Ridge Island
Blue Point
Blue Point Spring
Calico Bay
Calico Wash
Cathedral Cove
Echo Bay
Echo Wash
Fire Bay
Fish Island
Getchel Spring
Heron Island
Kaolin Wash
Lake Mead
Lime Wash
Lower Narrows
Magnesite Wash
Gull Islands
Cathedral Peaks
Lime Cove

Maynard Spring
Mockingbird Spring
Muddy River
Mud Wash
Overton Arm
Overton Anchorage
Overton Beach
Overton Islands
Overton Ridge
Quail Bay
Quail Spring
Quail Spring Wash
Ramshead Island
Red Bluff Spring
Rogers Bay
Rogers Spring
Rogers Wash
Salt Bay
Salt Cove
Salt Point
St. Thomas Wash
Stewarts Bay
Stewarts Point
The Narrows
Valley of Fire Wash
Virgin River

A. J. Wright
Reg. Names Sec.
GEOGRAPHIC NAMES
Ph 21414 (Overton, Nevada)

T-12569

Bowman Reservoir
Glassand
Halfway Wash
Kaolin Wash
Magnesite Wash
Lake Mead
Moapa Valley
Mormon Mesa
Muddy River
Overton
Overton Airport
Overton Mesa
Overton Ridge
Overton Wash
Virgin
Virgin Mountains
Virgin River
Virgin Valley
Wieber Wash

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Geographic Names Section
GEOGRAPHIC NAMES
Ph 21414 (Virgin Basin, Nev.-Ariz.)

T-12570

Colorado River
Delmar Bay
Haystack Bay
Lake Mead
The Haystacks

A. J. Wraight
A. J. Wraight
Geographic Names Section
GEOGRAPHIC NAMES
Ph 21414 (Virgin Basin, Nev.-Ariz.)

T-12571

Burro Bay
Colorado River
Delmar Butte
Gateway Cove
Mesa Cove
Teal Coves
Temple Wash
Temple Bay
Temple Mesa
The Temple
Trail Rapids Bay
Trail Rapids Wash
Temple Bar
Virgin Canyon

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Geographic Names Section
GEOGRAPHIC NAMES
Ph 21414 (Virgin Basin, Nev.-Ariz.)

T-12572

Burro Bay
Burro Spring
Channel Reef
Channel Island
Colorado River
Gold Cross Peak
Granite Cove
Grapevine Mesa
Gregg Basin
Hiller Mountains
Hualapai Bay
Hualapai Island
Hualapai Wash
Lake Mead
Osprey Bay
Salt Spring Bay
Scanlon Hill
South Bay
Spring Canyon
Spring Cove
Temple Mesa

Virgin Canyon
Virgin Reef
Wild Burro Wash
Rocky Point

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Geographic Names Section
GEOGRAPHIC NAMES
Ph 21414 (Iceberg Canyon, Nev.-Ariz.)

T-12573

Badger Cove
Boundary Point
Boundary Hill
Bradley Bay
Burro Spring Wash
Center Point
Colorado River
Connoly Spring
Connoly Wash
Cormorant Cliffs
Cottonwood Canyon Wash
Crapple Cove
Devils Cove
Driftwood Cove
Grand Wash Bay
Grand Wash Canyon
Grand Wash
Gods Pocket
Gregg Basin
Gregg Wash
Howland Point
Iceberg Reef
Iceberg Ridge

Iceberg Canyon
Indian Hills
Indian Hills Wash
Lake Mead
Million Hills
Million Hills Wash
New Spring
New Spring Wash
North Bay
North Howland Cove
Paiute Point
Pierce Wash
Powell Mountain
Sandy Point
South Bay
South Howland Cove
Sunfish Cove
Thumb Knob
Twin Coves
Wheeler Ridge
Chuckwalla Cove

A. J. Wright
Geographic Names Section
**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.

<table>
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<tr>
<th>CHART</th>
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SHORELINE MAPPING
PROJECT 21414
LAKE MEAD, NEVADA
SCALE 1:12,000

△ PREMARKED STATION
▲ LOCATED BY SUB STATIONS
○ INFRARED PHOTOGRAPHY 1:24,000 SCALE
● PANCHROMATIC PHOTOGRAPHY 1:24,000 SCALE

JANUARY — JUNE