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

DESCRIPTIVE REPORT

Type of Survey: Shoreline
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
T - 12563 thru 12573

PROJECT NO. (I):
12310-801 (21414)

FIELD OFFICE (II):
Boulder City, Nevada

CHIEF OF PARTY
Gerald R. Cichy

PHOTOGRAMMETRIC OFFICE (III):
Washington, D.C.

OFFICER-IN-CHARGE
J.E. Waugh

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

METHOD OF COMPILATION (III):
Multiplex and Kelsh

MANUSCRIPT SCALE (III):
1:12,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):
Multiplex
1:10,000
Kelsh
1:4800

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):
Mean Sea Level 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

Lake level at 1150 Ft. MSL

REFERENCE STATION (III):

LAT.:

LONG.:

☐ ADJUSTED
☐ UNADJUSTED

PLANE COORDINATES (IV):

X =

STATE
Nevada

ZONE
East

ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (I) FIELD PARTY, (II) PHOTOGRAMMETRIC OFFICE,
OR (IV) WASHINGTON OFFICE.
WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE THE SURNAME AND INITIALS, NOT INITIALS ONLY.
<table>
<thead>
<tr>
<th>Category</th>
<th>Person</th>
<th>Date</th>
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<tbody>
<tr>
<td>Field Inspection by (II):</td>
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<tr>
<td>Mean High Water Location (III) (State Date and Method of Location):</td>
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<tr>
<td>Time and date of photography.</td>
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<td>Office interpretation</td>
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<td>Projection and Grids Ruled by (IV):</td>
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<td>Projection and Grids Checked by (IV):</td>
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<td>Control Plotted by (III):</td>
<td>J.C. Richter</td>
<td>Jan.-May,1964</td>
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<td>Control Checked by (III):</td>
<td>J.A. Mooney</td>
<td>Jan.-May,1964</td>
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<td>Raster Plot or Stereoscopic Control Extension by (III):</td>
<td>J.C. Richter</td>
<td>Jan.-May,1964</td>
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<td>J.C. Richter</td>
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<td>Shoreline</td>
<td>J.C. Richter</td>
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<td>Contours</td>
<td>J.C. Richter</td>
<td>June, 1964</td>
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<td>Manuscript delineated by (III):</td>
<td>M. Webber</td>
<td>Jan.-May,1964</td>
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<td>Photogrammetric Office Review by (III):</td>
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## DESCRIPTIVE REPORT - DATA RECORD

**CAMERA (KIND OR SOURCE) (III):**

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

### PHOTOGRAPHS (III)

<table>
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<tr>
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<th>TIME</th>
<th>SCALE</th>
<th>STAGE OF TIDE</th>
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<tr>
<td>See attached list</td>
<td>26 Sept. 1963</td>
<td>8:30 to 13:30</td>
<td>1:24,000</td>
<td>1150 ft. above MSL</td>
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<tr>
<td></td>
<td>K to W</td>
<td>10:10 to 10:20</td>
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### TIDE (III)

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<td>SUBORDINATE STATION:</td>
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**WASHINGTON OFFICE REVIEW BY (IV):**

DATE:

**PROOF EDIT BY (IV):**

DATE:

**NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (III):**

61  RECOVERED: 61  IDENTIFIED: 61

**NUMBER OF BM(5) SEARCHED FOR (III):**

RECOVERED:  IDENTIFIED

**NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):**

**NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):**

**REMARKS:**

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USCM1831b 16276C-161
Photographs for Project 21414
Lake Mead

Panchromatic

63X646 thru 659
682 " 689
693 " 713
715 " 725
728 " 731
734 " 740
744 " 755
758 " 764
772 " 781
784 " 790
792 " 799
804 " 814
823 " 832
837 " 840
860 " 868
870 " 878
881 " 887
890 " 895
897 " 913
927 " 934
939 " 942
955 " 962
970 " 977
989 " 991
991 " 998
1002 " 1006
1010 " 1015
1019 " 1024
Lake Mead, Arizona, Nevada.

Project No. 21114

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 (cont.)

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 multiplex 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 Kesh 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 ALONSHORE DETAILS.
   All shoreline was delineated from office interpretation from infrared photography. There is no low-water line.

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
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR y-COORDINATE</th>
<th>LONGITUDE OR x-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET OR PROJECTION LINE IN METERS</th>
<th>DATUM CORRECTION</th>
<th>N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
<th>SCALE FACTOR</th>
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<tbody>
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<td>N2</td>
<td>Letter 7 Oct63 N.A. 1927</td>
<td>47°16'66&quot;.10</td>
<td>73°12'60&quot;.56</td>
<td></td>
<td>1121.6 (102.14)</td>
<td>384.2 (1139.8)</td>
<td>1181.3 (342.7) South of</td>
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<tr>
<td>RICH</td>
<td>&quot;</td>
<td>45°58'75&quot;.62</td>
<td>73°47'19&quot;.55</td>
<td></td>
<td>1438.5 (85.5) limits</td>
<td></td>
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<tr>
<td>N3</td>
<td>&quot;</td>
<td>48°50'44&quot;.56</td>
<td>73°24'54&quot;.40</td>
<td></td>
<td>13.6 (1510.4)</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>N5B</td>
<td>&quot;</td>
<td>50°13'39&quot;.82</td>
<td>71°42'28&quot;.42</td>
<td></td>
<td>748.1 (775.9)</td>
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<td>VEGAS WASH NO.1</td>
<td>&quot;</td>
<td>49°51'15&quot;.08</td>
<td>70°6'50&quot;.08</td>
<td></td>
<td>1408.4 (1115.6)</td>
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<td>VEGAS WASH NO.2</td>
<td>&quot;</td>
<td>49°51'58&quot;.20</td>
<td>73°47'18&quot;.49</td>
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<td>827.6 (696.4) North of</td>
<td>458.4 (1065.6)</td>
<td>limits</td>
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<td>N8A</td>
<td>&quot;</td>
<td>49°57'78&quot;.49</td>
<td>74°1'70&quot;.57</td>
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<td>1274.5 (214.5)</td>
<td>1397.9 (126.1)</td>
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<td>&quot;</td>
<td>50°2'74&quot;.83</td>
<td>75°7'12&quot;.21</td>
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<td>1143.0 (90.0)</td>
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<td>N1</td>
<td>Read out</td>
<td>46°54'49&quot;.47</td>
<td>74°3'10&quot;.75</td>
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<td>838.1 (685.9) Common with Tw12564-563</td>
<td>887.6 (636.4)</td>
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<td>N1 Sub.Sta. 1</td>
<td>CSI</td>
<td>46°58'42&quot;.21</td>
<td>74°1'19&quot;.31</td>
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<td>1081.9 (412.1)</td>
<td>1039.6 (414.4)</td>
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<td>N1 Sub.Sta. 2</td>
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<td>46°58'36&quot;.00</td>
<td>74°3'80&quot;.08</td>
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<td>1171.1 (352.9)</td>
<td>1279.3 (347.7)</td>
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<td>FORWARD (BACK)</td>
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<td>A3</td>
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<td>476541.79</td>
<td>748119.73</td>
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<td>169.9 (1054.1)</td>
<td>950.9 (573.1)</td>
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<td>747878.20</td>
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<td>830.7 (693.3)</td>
<td>877.3 (616.7)</td>
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<td>476265.10</td>
<td>748504.00</td>
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<td>476500.66</td>
<td>747486.17</td>
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<td>457.4 (1066.6)</td>
<td>757.8 (766.2)</td>
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<td>469931.48</td>
<td>758570.71</td>
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<td>1503.1 (20.9)</td>
<td>1088.4 (435.6)</td>
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<td>477300.86</td>
<td>754217.10</td>
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<td>ROUGH</td>
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<td>460835.52</td>
<td>741350.80</td>
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<td>254.7 (1269.3)</td>
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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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<td>502749.63 757912.21</td>
<td>838.1 (685.9) 887.6 (636.4)</td>
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<td>INDIAN CANYON</td>
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<td>500888.30 776126.30</td>
<td>270.8 (1253.2) 343.3 (1180.7)</td>
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<td>510906.73 796015.71</td>
<td>318.7 (1295.3) 236.6 (1287.4)</td>
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<td>212.4 (1311.6) 1046.6 (477.4)</td>
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<td>A5</td>
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<td>763818.63 488958.76</td>
<td>1206.6 (317.4)</td>
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<td>763849.55 488945.36</td>
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<td>N27A</td>
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<td>513017.89 806308.65</td>
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<td>A25DA</td>
<td>Letter</td>
<td>Oct. 7</td>
<td>474607.37</td>
<td>829792.19</td>
<td>11401.3 (119.7)</td>
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<td>513017.89</td>
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CHECKED BY: J.A. Mooney  DATE: May, 1964
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1 FT. = 0.3048006 METER

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CHECKED BY: J.A. Mooney  DATE: May, 1964
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1 FT = 0.3048006 METER

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DATE: May, 1964
CHECKED BY: J.A. Mooney
DATE: May, 1964
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CHECKED BY J.A. Mooney DATE May, 1964
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CHECKED BY: J.A. Mooney  DATE: May, 1964
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1 FT. = 0.3048008 METER

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CHECKED BY: J.A. Mooney  DATE: May, 1964
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1 FT. = 3048006 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

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Geographic Names Section
GEOGRAPHIC NAMES
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T-12564

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

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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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T-12566

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

T-12570

Colorado River
Delmar Bay
Haystack Bay
Lake Mead
The Haystacks

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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
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
Badger Cove
Boundary Point
Boundary Hill
Bradley Bay
Burro Spring Wash
Center Point
Colorado River
Connoly Spring
Connoly Wash
Cormorant Cliffs
Cottonwood Canyon Wash
Crappie 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

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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.

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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