

**Interstate Compact Defining the
Boundary Between the States of
Arizona and California**

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INTERSTATE COMPACT DEFINING THE BOUNDARY BETWEEN THE STATES OF ARIZONA AND CALIFORNIA

Article I. Purpose.

The boundary between the States of Arizona and California on the Colorado River has become indefinite and uncertain because of meanderings in the main channel of the Colorado River with the result that a state of confusion exists as to the true and correct location of the boundary, and the enforcement and administration of the laws of the two states and of the United States have been rendered difficult.

The purpose of this compact is to fix by reference to stations of longitude and latitude the location of the boundary line between Arizona and California on the Colorado river from the southern boundary of the state of Nevada to the point on the international boundary which is common to the boundaries of Arizona and California and the United Mexican States.

Article II. Description.

The boundary between the states of Arizona and California on the Colorado river from the point where the oblique boundary between California and Nevada intersects the thirty-fifth degree of north latitude, said point being common to the boundaries of the states of Arizona, California and Nevada, to the point on the international boundary which is common to the boundaries of Arizona, California and the United Mexican States, shall be in accordance with the following description in general terms of 34 points on the boundary:

General Description of Boundary Between Arizona and California

Point No. 1. The intersection of the boundary line common to California and Nevada and the centerline of the channel of the Colorado River as constructed by the U. S. Bureau of Reclamation, said point being common to the boundaries of Arizona, California, and Nevada, where the 35th degree of north latitude intersects the centerline of said channel; thence downstream along and with the centerline of said channel to the southerly end of said construction to

Point No. 2, which is located in the center of the channel of the Colorado River approximately one-half mile northerly from the A.T.&S.F. Railway Bridge at Topock; thence downstream on a straight line to

Point No. 3, which lies in the Colorado River vertically below the centerline of the A.T.&S.F. Railway tracks at a point midway face-to-face of abutments of the A.T.&S.F. Railway Bridge at Topock, Arizona; thence on a straight line downstream to

Point No. 4, which lies in the Colorado River vertically below the centerline of U. S. Highway 66 at a point where said centerline intersects the center of the center pier of the highway bridge; thence on a straight line to

Point No. 5, which lies in the Colorado River vertically below the center of the span of the gas line bridge owned by the El Paso Natural Gas Co. and the Pacific Gas and Electric Co., crossing the Colorado River at Topock, Arizona; thence downstream in a southerly direction through Havasu Lake along a line midway between the right and left shore lines of said lake as they exist at mean operating level (elevation 448.00 above Mean Sea Level), as controlled at Parker Dam to

Point No. 6, which is the center of the overflow section of Parker Dam across the Colorado River; thence downstream midway between the shore lines on the right and left banks of the Colorado River to

Point No. 7, which lies in the center of the Colorado River approximately 2,050 feet upstream from the earth fill of Headgate Rock Dam; thence on a straight line to

Point No. 8, which is the center of the earth fill of Headgate Rock Dam; thence on a straight line to

Point No. 9, which lies on the centerline of the river approximately 3,625 feet westerly from Point No. 8; thence on a straight line to

Point No. 10, which lies in the center of the Colorado River at a point where the parallel of $34^{\circ} 10'$ north latitude intersects said centerline; thence on a straight line to

Point No. 11, which lies in the Colorado River vertically below the centerline of Arizona Highway No. 72 midway between the abutments of the highway bridge; then down the Colorado River midway between the right and left shore lines across islands which may exist between those water lines to

Point No. 12, which is at the center of the earth fill section of the Palo Verde Diversion Dam; thence down the Colorado River midway between the shore lines on the right and left banks to

Point No. 13, which is vertically below the center of the center span of the highway bridge across the Colorado River at Ehrenberg, Arizona (U. S. Highway 60-70); thence down the Colorado River midway between the shore lines on the right and left banks to

Point No. 14, which is the center of the Cibola Bridge midway between abutments; thence down the Colorado River midway between the shore lines on the right and left banks, ignoring future channelization by the U. S. Bureau of Reclamation to

Point No. 15, which lies on the centerline of the Colorado River approximately 8400 feet northward of the center of the overflow section of Imperial Dam; thence on a straight line to

Point No. 16, which is the center of the overflow section of Imperial Dam; thence on a straight line normal to the longitudinal axis of Imperial Dam to

Point No. 17, which lies at the intersection of the last described line with a line extending northeasterly from the center of the overflow section of Laguna Dam and normal to the longitudinal axis of the said Laguna Dam; thence southeasterly on a straight line to

Point No. 18, which is at the center of the overflow section of Laguna Dam; thence on a straight line to

Point No. 19, which lies on the centerline of the Colorado River approximately 5800 feet southwesterly of Point 18; thence down the Colorado River midway between the shore lines on the right and left banks, around a curve to the eastward to

Point No. 20, which lies on the centerline of the Colorado River where said centerline intersects the section line between Sections 4 and 9, Township 8 South, Range 22 West, Gila and Salt River Meridian; thence departing from the river on a westerly course along the extension of the above-mentioned section line about 0.65 mile to

Point No. 21, which will be the northwest corner of the northeast quarter of Section 8, Township 8 South, Range 22 West, Gila and Salt River Meridian, which shall be resurveyed in establishing this boundary; thence southerly along the centerline of said Section 8 about one-half mile to

Point No. 22, which is the northeast corner of the southwest quarter of Section 8, Township 8 South, Range 22 West, Gila and Salt River Meridian; thence westerly about one and one-half miles to

Point No. 23, which is the west quarter corner of Section 7, Township 8 South, Range 22 West, Gila and Salt River Meridian; thence southerly about one-half mile to

Point No. 24, which is the southwest corner of Section 7, Township 8 South, Range 22 West, Gila and Salt River Meridian; thence westerly about one mile to

Point No. 25, which is the southwest corner of Section 12, Township 8 South, Range 23 West, Gila and Salt River Meridian, thence southerly about one-half mile to

Point No. 26, which is the west quarter corner of Section 13, Township 8 South, Range 23 West, Gila and Salt River Meridian; thence westerly about 1.93 miles to

Point No. 27, which lies on the east shoulder of the north-south road through the Indian School approximately 370 feet due east of the northwest corner of the southwest quarter of the southwest quarter of Section 25, Township 16 South, Range 22 East, San Bernardino Meridian; thence southerly along and with the easterly shoulder line of the said north-south road approximately 700 feet to

Point No. 28, which lies on the easterly shoulder line of said north-south road due east of the northeast corner of the stone

retaining wall around the Indian School Hospital; thence due west to

Point No. 29, which is the base of the northeast corner of said retaining wall; thence southerly along and with the westerly shoulder of said north-south road to

Point No. 30, which lies on the westerly shoulder line of said north-south road 330 feet south of and approximately 110 feet east of the northeast corner of Section 35, Township 16 South, Range 22 East, San Bernardino Meridian; thence due west approximately 110 feet to

Point No. 31, which lies on the east line of Section 35, Township 16 South, Range 22 East, San Bernardino Meridian, exactly 330 feet south of the northeast corner of said Section 35; thence southerly along the east line of said Section 35 to

Point No. 32, which lies at the center of the Colorado River, i.e., midway between the north and south shore lines just downstream from the centerline of the old U. S. Highway 80 Bridge across the Colorado River; thence down the center line of the Colorado River midway between the shore lines on the right and left banks to

Point No. 33, which is a point in the Colorado River vertically below the center of the new U. S. Highway 80 Bridge; thence down the centerline of the Colorado River midway between the shore lines on the right and left banks to

Point No. 34, which is the intersection of the centerline of the Colorado River and the International Boundary Line between California and the United Mexican States, which point is common to the boundaries of Arizona, the United Mexican States, and California.

These points will be marked on existing bridges and dams and where appropriate will be monumented. Between each of these points will be a number of subpoints not monumented. The total number of points and subpoints will approximate 234. The United States Coast and Geodetic Survey will locate the above mentioned 34 points on the boundary by precise geodetic surveys. The Coast and Geodetic Survey will locate the remaining approximately 200 unmonumented subpoints by precise photogrammetric methods and will provide a list of the geographic positions and state coordinate positions (transverse Mercator system for Arizona and Lambert system for California) of each of the 234 points on the boundary. The approximately 200 unmonumented subpoints will be identified on copies of the aerial photographs by the State of Arizona and California to define the boundary; the Coast and Geodetic Survey will then locate the points so identified by analytic aerotriangulation (photogrammetric methods).

When the survey and boundary description has been completed by the United States Coast and Geodetic Survey and the Boundary Commissions of Arizona and California have each certified that it

is in conformity with the General Description of Boundary between Arizona and California set forth herein, it shall be attached hereto and marked Exhibit "A" and made a part hereof as though fully incorporated herein as the permanent description of the boundary between the states of Arizona and California.

Article III. Ratification and Effective Date.

This compact shall become operative when it has been ratified and approved by the legislatures of the states of Arizona and California, and approved by the Congress of the United States.

Executed in duplicate this 12th day of March, A.D., One Thousand Nine Hundred and Sixty-three, at Sacramento, California.

FOR THE STATE OF
ARIZONA

/s/ WAYNE M. AKIN

WAYNE M. AKIN
Chairman of the Arizona
Interstate Stream Commission,
Chairman

/s/ ROBERT W. PICKRELL

ROBERT W. PICKRELL
Attorney General,
Member

/s/ OBED M. LASSEN

OBED M. LASSEN
State Land Commissioner,
Member

ATTESTED:

/s/ HOWARD F. THOMPSON

HOWARD F. THOMPSON
Executive Secretary
Colorado River Boundary
Commission of Arizona

FOR THE STATE OF
CALIFORNIA

/s/ F. J. HORTIG

F. J. HORTIG
Executive Officer,
State Lands Commission,
Chairman

/s/ STANLEY MOSK

STANLEY MOSK
Attorney General,
Member

/s/ WILLIAM E. WARNE

WILLIAM E. WARNE
Director,
Department of Water Resources,
Member

ATTESTED:

/s/ BERRIEN E. MOORE

BERRIEN E. MOORE,
Executive Secretary
Colorado River Boundary
Commission of California

EXHIBIT "A"

Description of 249 Points on Boundary between Arizona and California,
prepared for Boundary Commissions of Arizona and California by the
United States Coast and Geodetic Survey.

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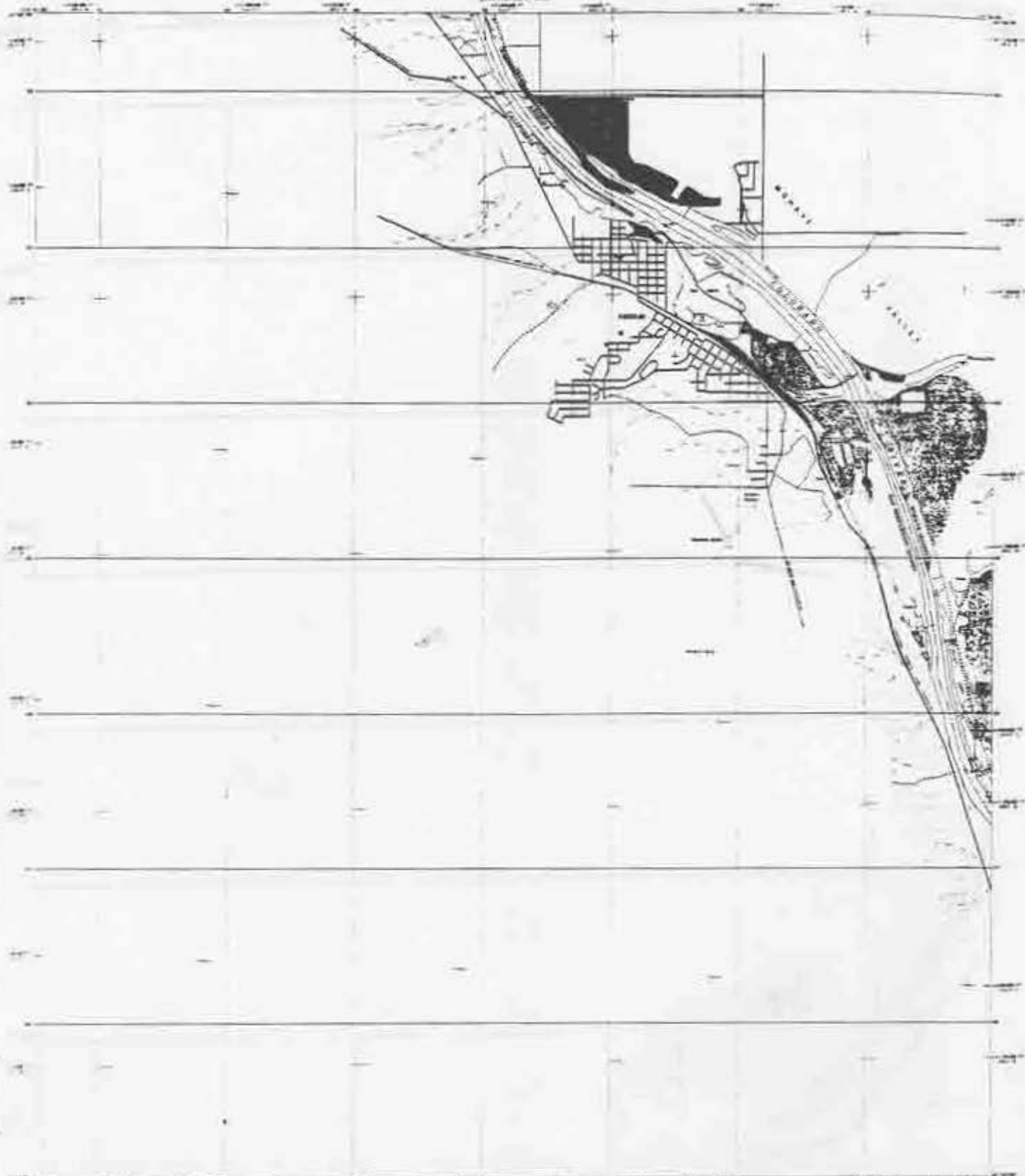
A very faint, large-scale map of the Arizona-California border region is visible in the background. It shows the geographical outline of the border, with various points and subpoints marked along the line. The map is centered on the page and serves as a backdrop for the text.

ARIZONA-CALIFORNIA BOUNDARY COMMISSIONS

BOUNDARY MAPS

A series of 25 Planimetric Maps delineating the Arizona-California Boundary and showing the 34 Boundary Points and 215 Boundary Subpoints.

ARIZONA-CALIFORNIA BOUNDARY COMMISSION
BOUNDARY MAP



Scale of 1:62,500
 (1 inch = 1 mile)
 (1 centimeter = 0.4 kilometers)



- Boundary
- Survey Line
- Section Line
- Township Line
- Range Line
- Meridian
- Equator
- Tropic of Cancer
- Tropic of Capricorn
- Equator
- Tropic of Cancer
- Tropic of Capricorn

ARIZONA-CALIFORNIA BOUNDARY COMMISSION
 BOUNDARY MAP
 (Scale of 1:62,500)
 (1 inch = 1 mile)
 (1 centimeter = 0.4 kilometers)

ARIZONA - CALIFORNIA BOUNDARY COMMISSION
BOUNDARY MAP

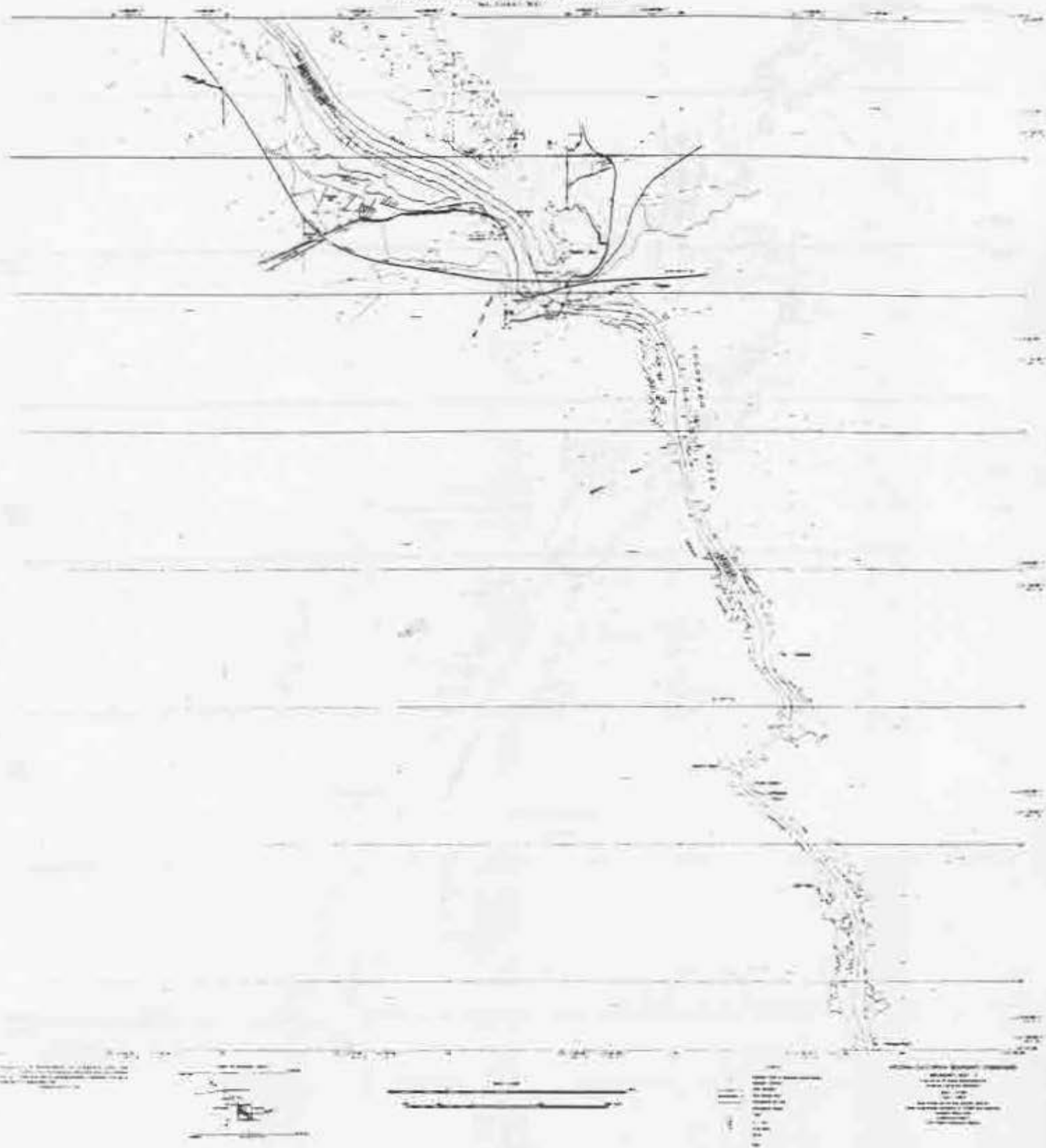


ARIZONA - CALIFORNIA BOUNDARY COMMISSION
BOUNDARY MAP



ARIZONA - CALIFORNIA BOUNDARY COMMISSION
BOUNDARY MAP

ARIZONA - CALIFORNIA BOUNDARY COMMISSION
BOUNDARY MAP



ARIZONA-CALIFORNIA BOUNDARY COMMISSION
BOUNDARY MAP



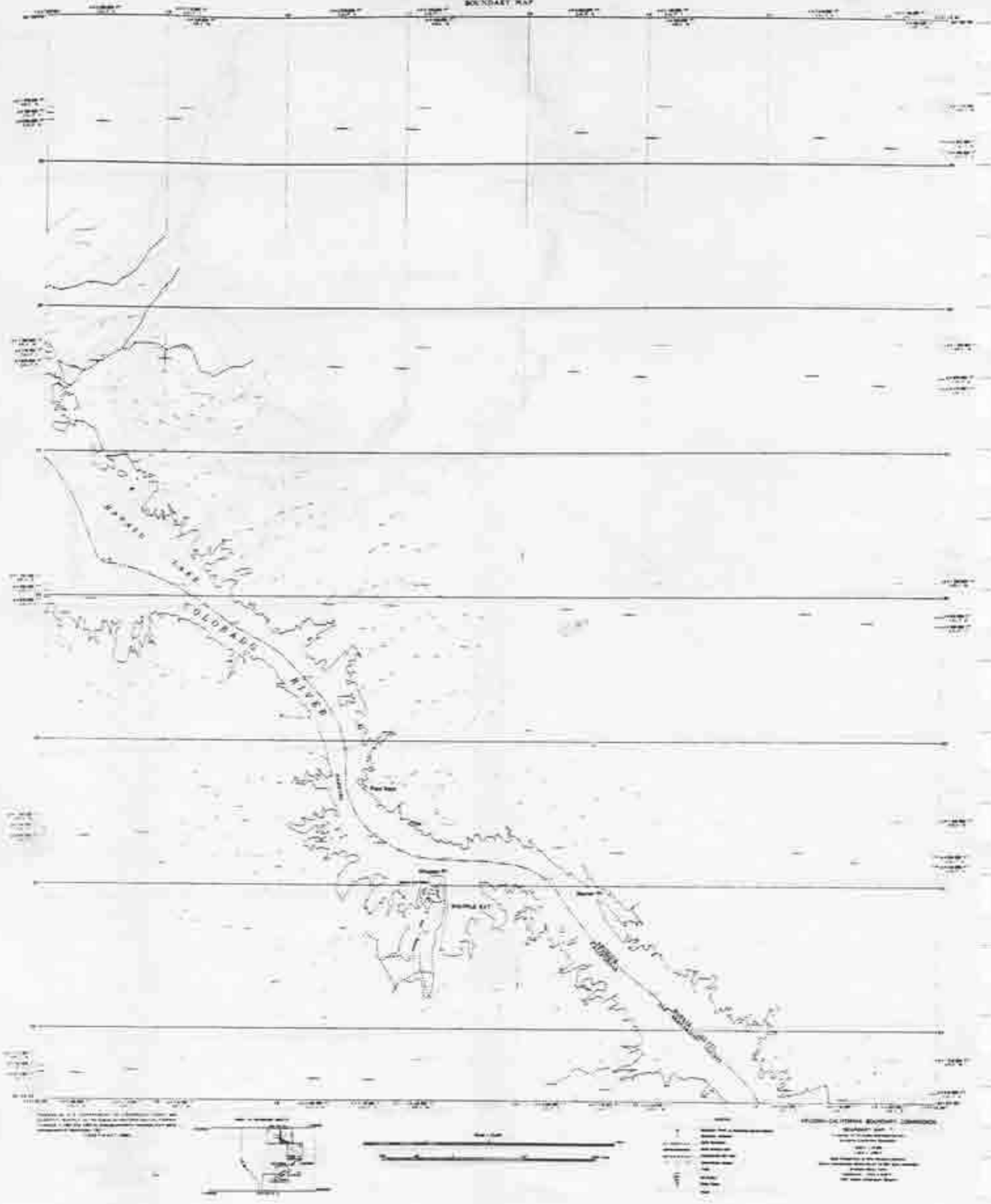
Scale of 1 inch = 1 mile



- 1. Survey line
- 2. Boundary line
- 3. Colorado River
- 4. Colorado Canal
- 5. Territorial Road
- 6. Kafaye Lake
- 7. Colorado River
- 8. Colorado Canal
- 9. Territorial Road
- 10. Kafaye Lake

Arizona-Columbia Boundary Commission
Boundary Map
Colorado River
Colorado Canal
Territorial Road
Kafaye Lake

ARIZONA-CALIFORNIA BOUNDARY COMMISSION
BOUNDARY MAP



ARIZONA-CALIFORNIA BOUNDARY SURVEY



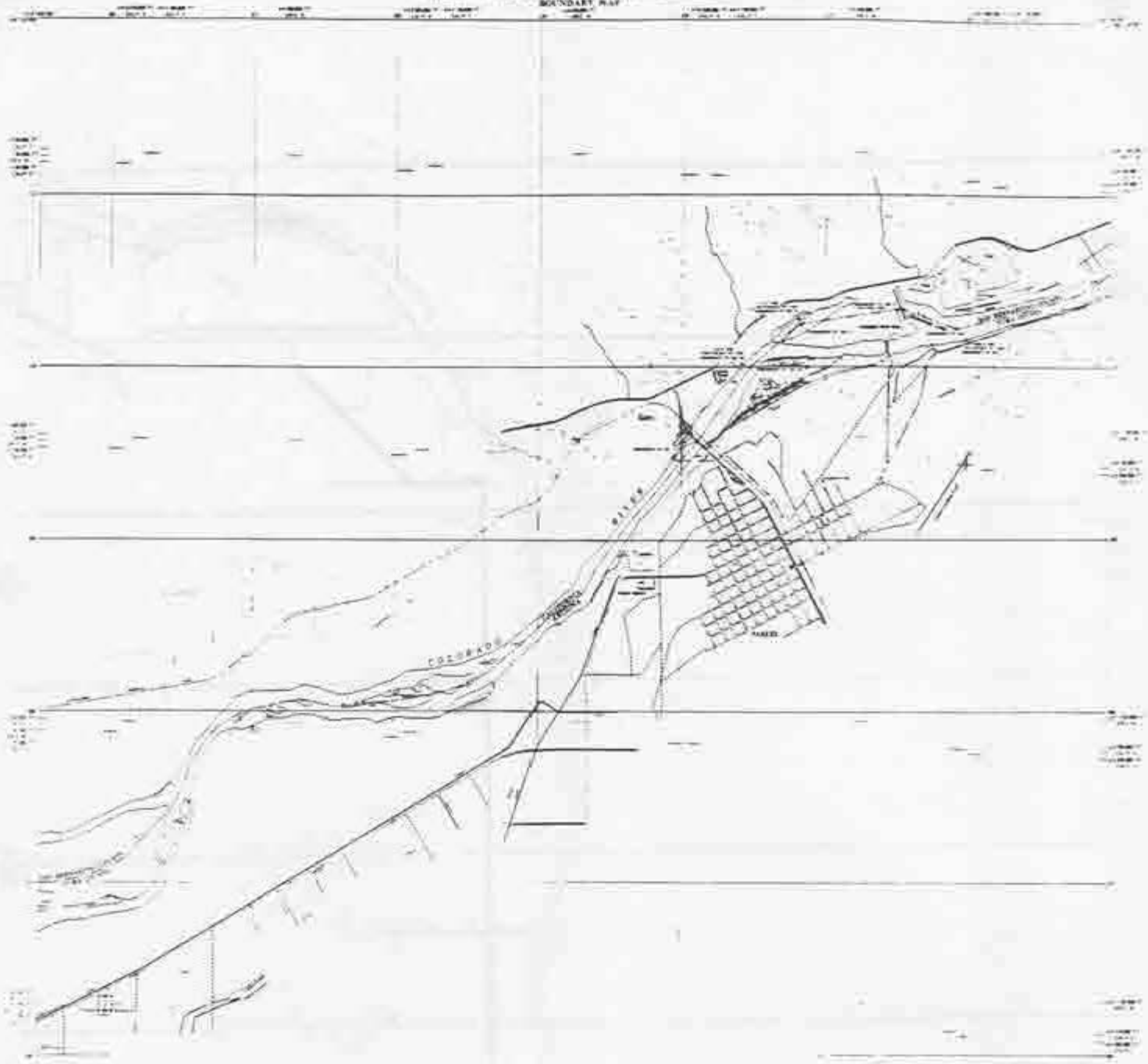
SECTION 1
SECTION 2
SECTION 3
SECTION 4
SECTION 5
SECTION 6
SECTION 7
SECTION 8
SECTION 9
SECTION 10



- Symbol 1: [Symbol] [Description]
- Symbol 2: [Symbol] [Description]
- Symbol 3: [Symbol] [Description]
- Symbol 4: [Symbol] [Description]
- Symbol 5: [Symbol] [Description]
- Symbol 6: [Symbol] [Description]
- Symbol 7: [Symbol] [Description]
- Symbol 8: [Symbol] [Description]
- Symbol 9: [Symbol] [Description]
- Symbol 10: [Symbol] [Description]

ARIZONA-CALIFORNIA BOUNDARY SURVEY
SECTION 1
SECTION 2
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SECTION 9
SECTION 10

ARIZONA-CALIFORNIA BOUNDARY COMMISSION
BOUNDARY MAP

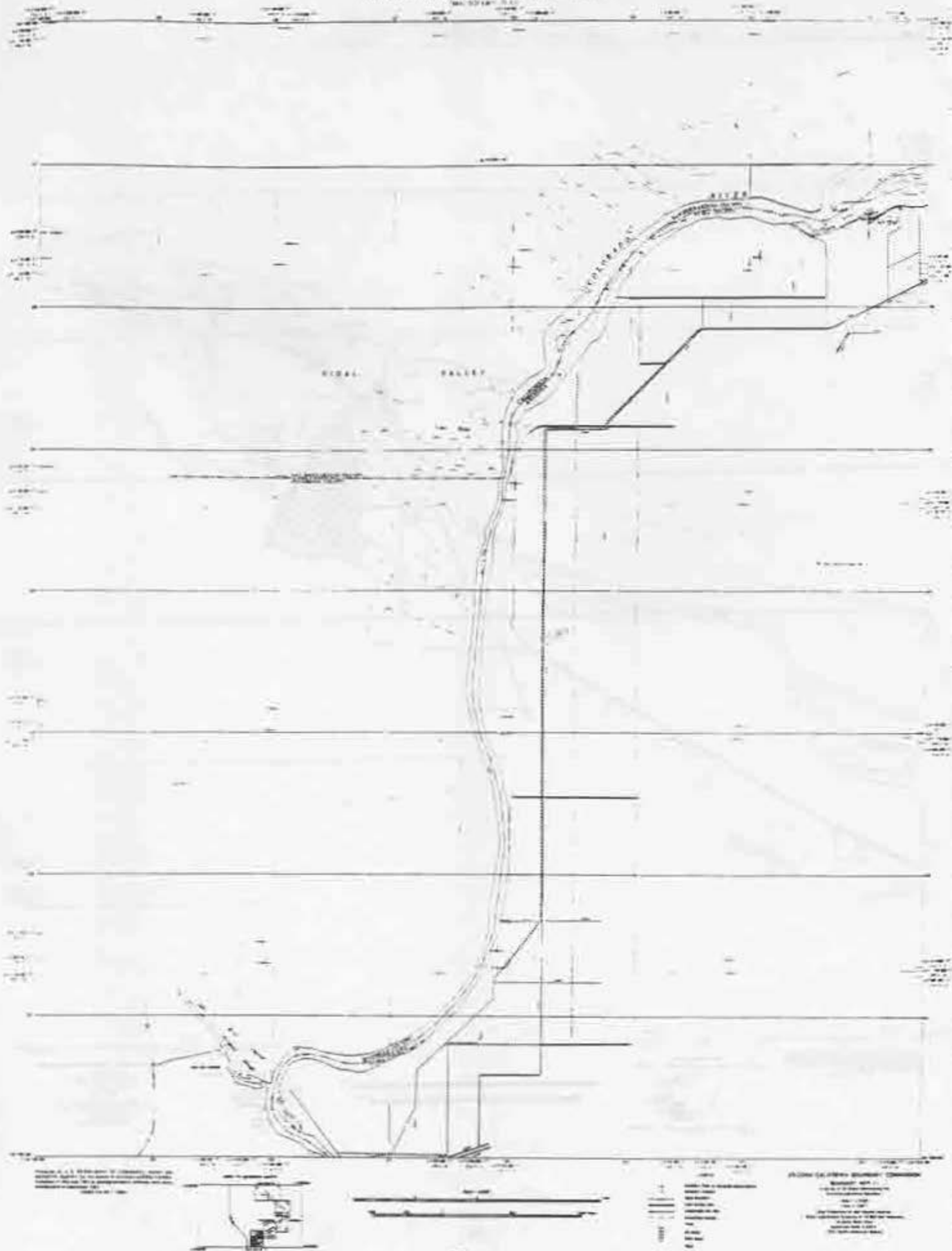


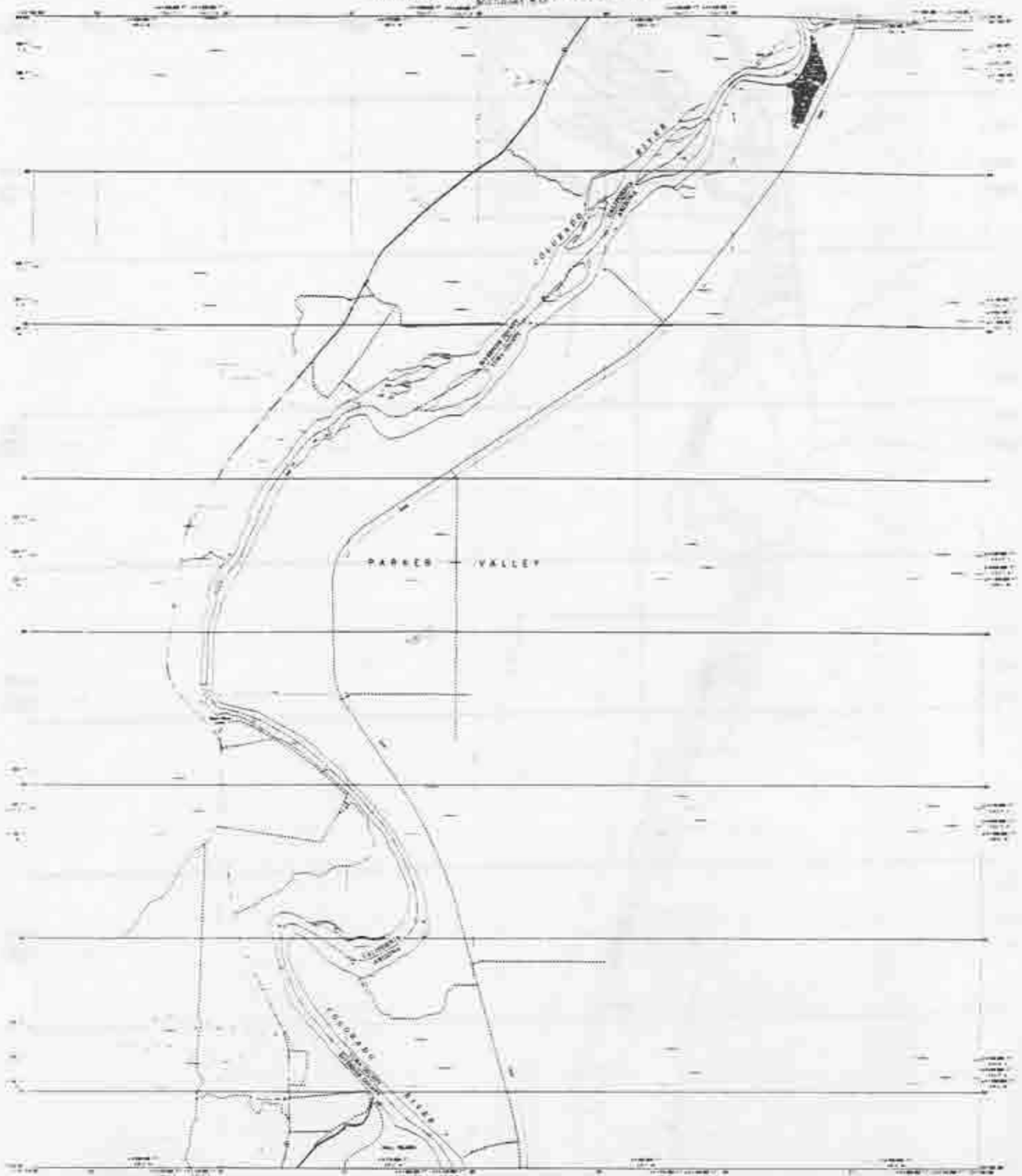
THESE LINES REPRESENT THE BOUNDARY BETWEEN ARIZONA AND CALIFORNIA AS DETERMINED BY THE ARIZONA-CALIFORNIA BOUNDARY COMMISSION IN 1904 AND 1905.



ARIZONA-CALIFORNIA BOUNDARY COMMISSION
BUREAU OF LAND SURVEY
DEPARTMENT OF THE INTERIOR
WASHINGTON, D. C.

ARIZONA-CALIFORNIA BOUNDARY (CONTINUED)





ARIZONA - CALIFORNIA BOUNDARY COMMISSION
SECTION 10 1/2

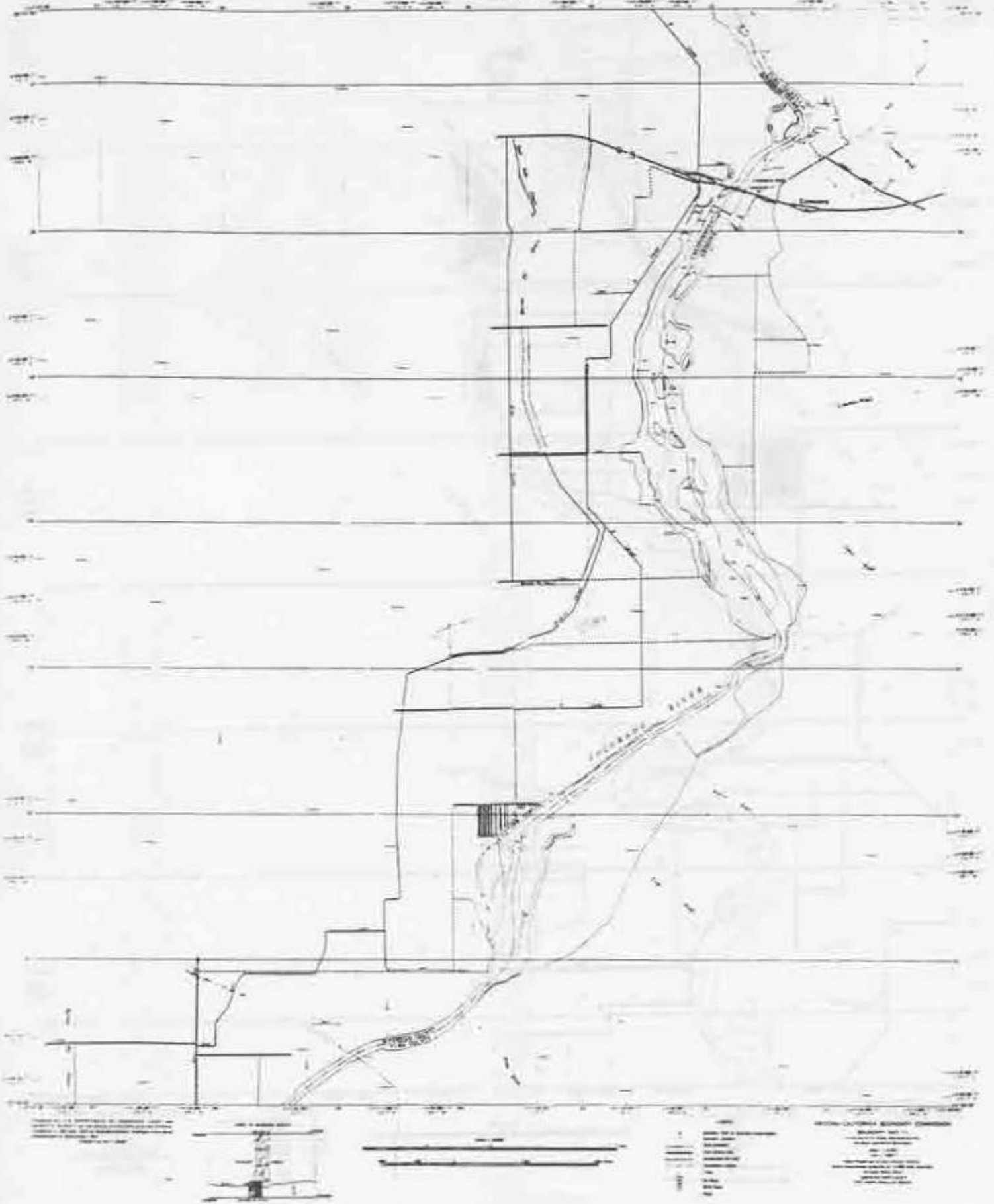


- MONUMENT
- BOUNDARY
- COURSE
- DISTANCE
- BEARING
- AREA
- VOLUME
- WEIGHT
- MEASURE
- UNIT
- SYSTEM
- METHOD
- INSTRUMENT
- DATE
- NAME
- LOCATION
- DESCRIPTION
- NOTES

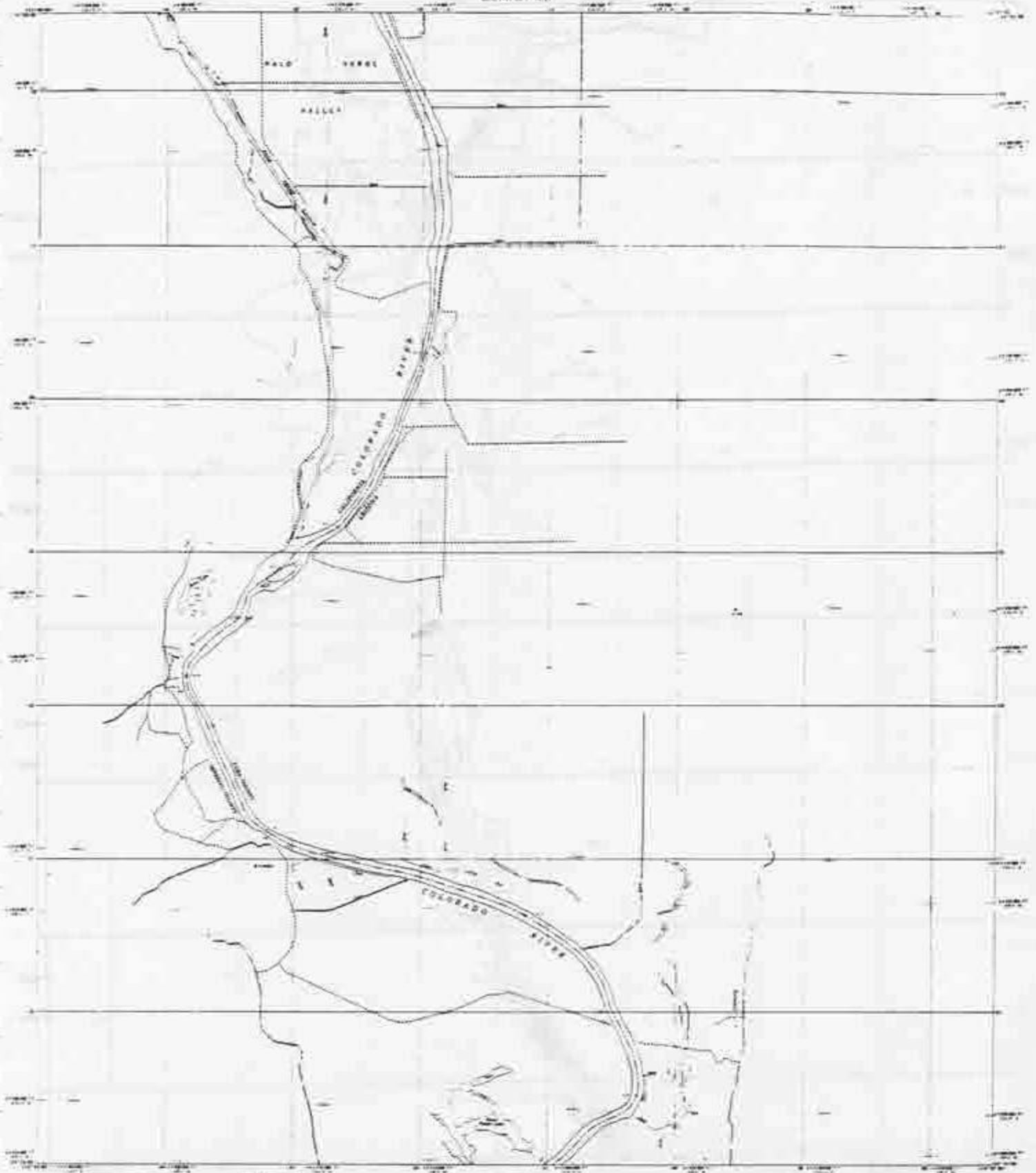
ARIZONA - CALIFORNIA BOUNDARY COMMISSION

SECTION 10 1/2

ARIZONA-CALIFORNIA BOUNDARY COMMISSION
BOUNDARY MAP



ARIZONA - CALIFORNIA BOUNDARY COMMISSION
BOUNDARY MAP



THIS MAP IS A REPRODUCTION OF THE ORIGINAL MAP AS FILED IN THE OFFICE OF THE SECRETARY OF THE ARIZONA-CALIFORNIA BOUNDARY COMMISSION. IT IS NOT TO BE USED FOR ANY OTHER PURPOSE.



- 1. COLORADO RIVER
- 2. MEXICAN COLORADO RIVER
- 3. GILA RIVER
- 4. GILA BEND
- 5. ARIZONA-CALIFORNIA BOUNDARY
- 6. ARIZONA-MEXICO BOUNDARY
- 7. CALIFORNIA-MEXICO BOUNDARY
- 8. UNDEVELOPED LAND
- 9. DEVELOPED LAND
- 10. WATER
- 11. SAND
- 12. ROCK
- 13. VEGETATION
- 14. TOWN
- 15. RAILROAD
- 16. HIGHWAY
- 17. CANAL
- 18. DAM
- 19. BRIDGE
- 20. FERRY
- 21. LIGHTHOUSE
- 22. MONUMENT
- 23. GRAVE
- 24. CHURCH
- 25. SCHOOL
- 26. OFFICE
- 27. STORE
- 28. HOTEL
- 29. RESTAURANT
- 30. BAR
- 31. CAFE
- 32. THEATER
- 33. GYMNASIUM
- 34. LIBRARY
- 35. POST OFFICE
- 36. POLICE STATION
- 37. COURT HOUSE
- 38. CITY HALL
- 39. COUNTY OFFICE
- 40. STATE OFFICE
- 41. FEDERAL OFFICE
- 42. MILITARY CAMP
- 43. AIRFIELD
- 44. PORT
- 45. DOCK
- 46. WHARF
- 47. PIER
- 48. BREAKWATER
- 49. LIGHTHOUSE
- 50. NAVIGATION LIGHT
- 51. BUOY
- 52. BEACON
- 53. TOWER
- 54. SPARK LIGHT
- 55. SOUND SIGNAL
- 56. TELEGRAPH
- 57. TELEPHONE
- 58. CABLE
- 59. RAILROAD
- 60. HIGHWAY
- 61. CANAL
- 62. DAM
- 63. BRIDGE
- 64. FERRY
- 65. LIGHTHOUSE
- 66. MONUMENT
- 67. GRAVE
- 68. CHURCH
- 69. SCHOOL
- 70. OFFICE
- 71. STORE
- 72. HOTEL
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- 93. LIGHTHOUSE
- 94. NAVIGATION LIGHT
- 95. BUOY
- 96. BEACON
- 97. TOWER
- 98. SPARK LIGHT
- 99. SOUND SIGNAL
- 100. TELEGRAPH

ARIZONA-CALIFORNIA BOUNDARY COMMISSION
BOUNDARY MAP NO. 10
SCALE 1:50,000
DATE 1910



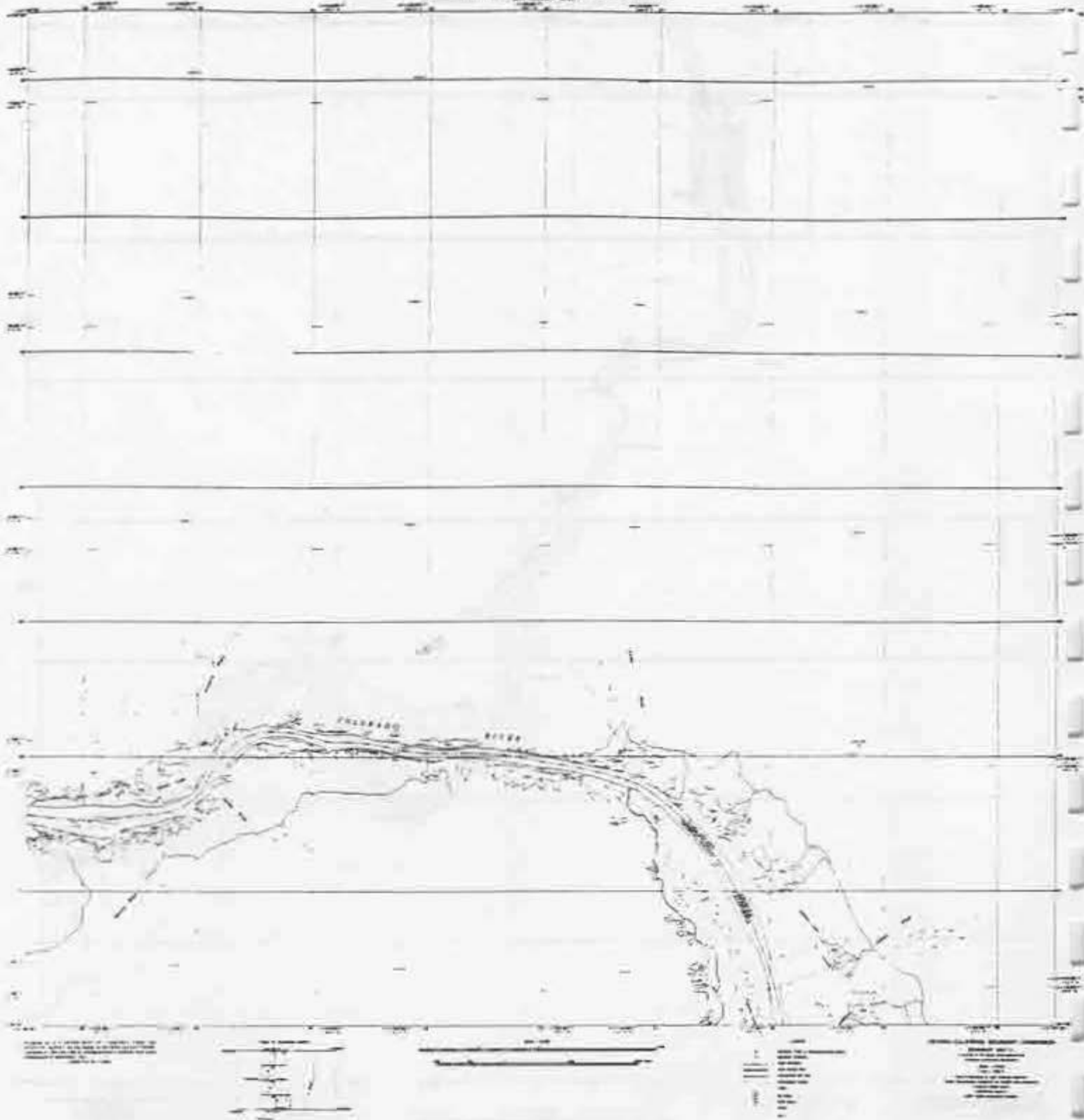
SECTION 1. THE BOUNDARY BETWEEN THE STATES OF ARIZONA AND CALIFORNIA SHALL BE THE CENTER LINE OF THE COLORADO RIVER AS SHOWN ON THE MAP ATTACHED TO THIS ORDER.

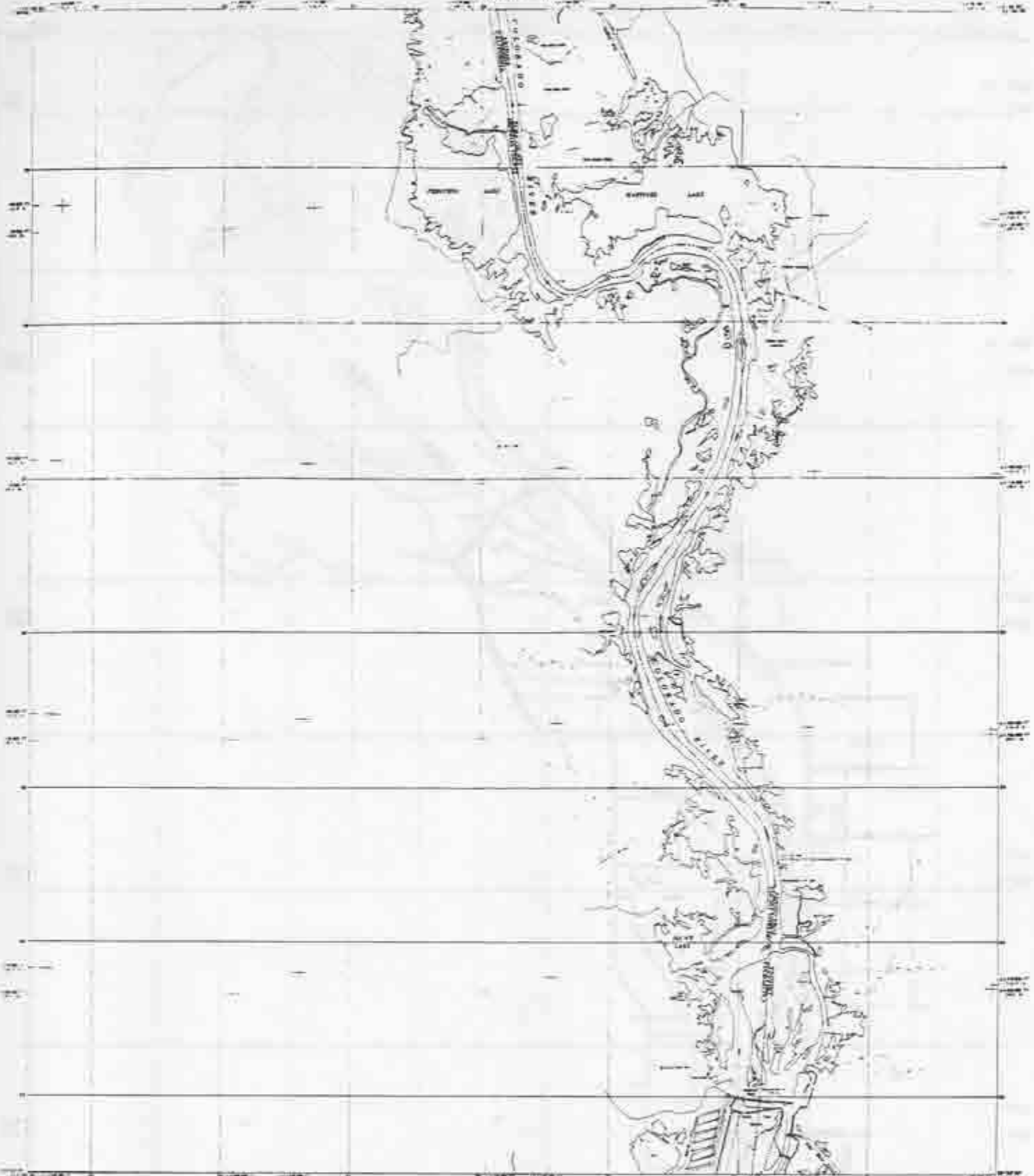


SECTION 2. THE BOUNDARY BETWEEN THE STATES OF ARIZONA AND CALIFORNIA SHALL BE THE CENTER LINE OF THE COLORADO RIVER AS SHOWN ON THE MAP ATTACHED TO THIS ORDER.

SECTION 3. THE BOUNDARY BETWEEN THE STATES OF ARIZONA AND CALIFORNIA SHALL BE THE CENTER LINE OF THE COLORADO RIVER AS SHOWN ON THE MAP ATTACHED TO THIS ORDER.

ARIZONA - CALIFORNIA BOUNDARY COMMISSION
BOUNDARY MAP





Scale of 1 inch = 1 mile
Scale of 1 inch = 1000 feet

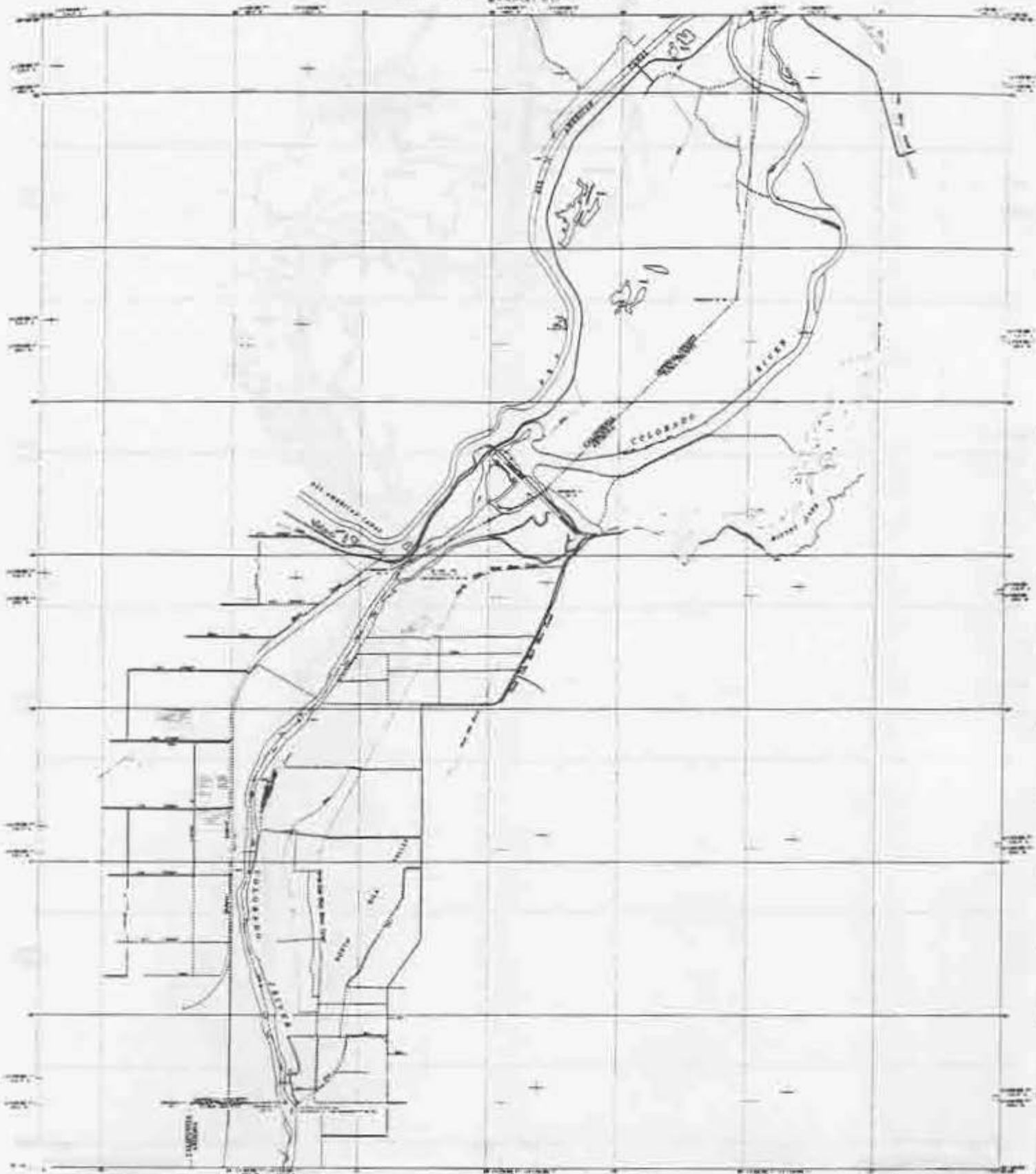


- 1. COLORADO RIVER
- 2. ARIZONA-CALIFORNIA BOUNDARY
- 3. LAND PARCELS
- 4. STRUCTURES
- 5. OTHER FEATURES

ARIZONA-CALIFORNIA BOUNDARY COMMISSION
REPORT NO. 12
ARIZONA-CALIFORNIA BOUNDARY
NO. 50487 0-11
ARIZONA-CALIFORNIA BOUNDARY COMMISSION
NO. 50487 0-11

ARIZONA-CALIFORNIA BOUNDARY COMMISSION

RECORD MAP 17



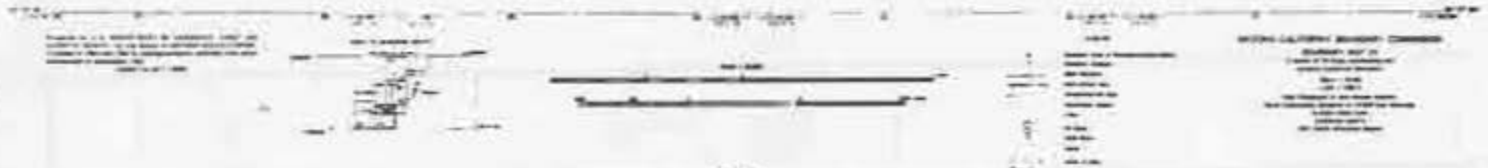
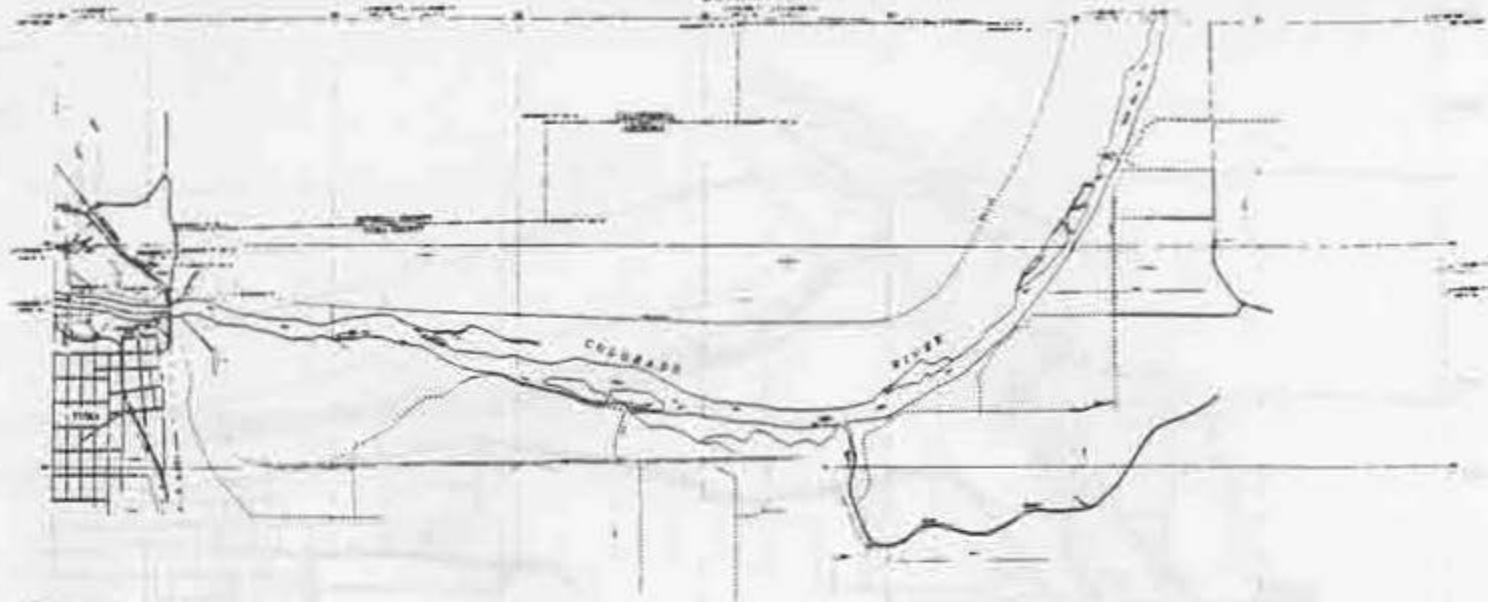
ARIZONA-CALIFORNIA BOUNDARY COMMISSION
RECORD MAP 17
THIS MAP WAS PREPARED BY THE ARIZONA-CALIFORNIA BOUNDARY COMMISSION
IN ACCORDANCE WITH THE ACT OF MARCH 3, 1899, CHAP. 108, 30 STAT. 544
AND THE ACT OF MARCH 3, 1909, CHAP. 108, 35 STAT. 1055



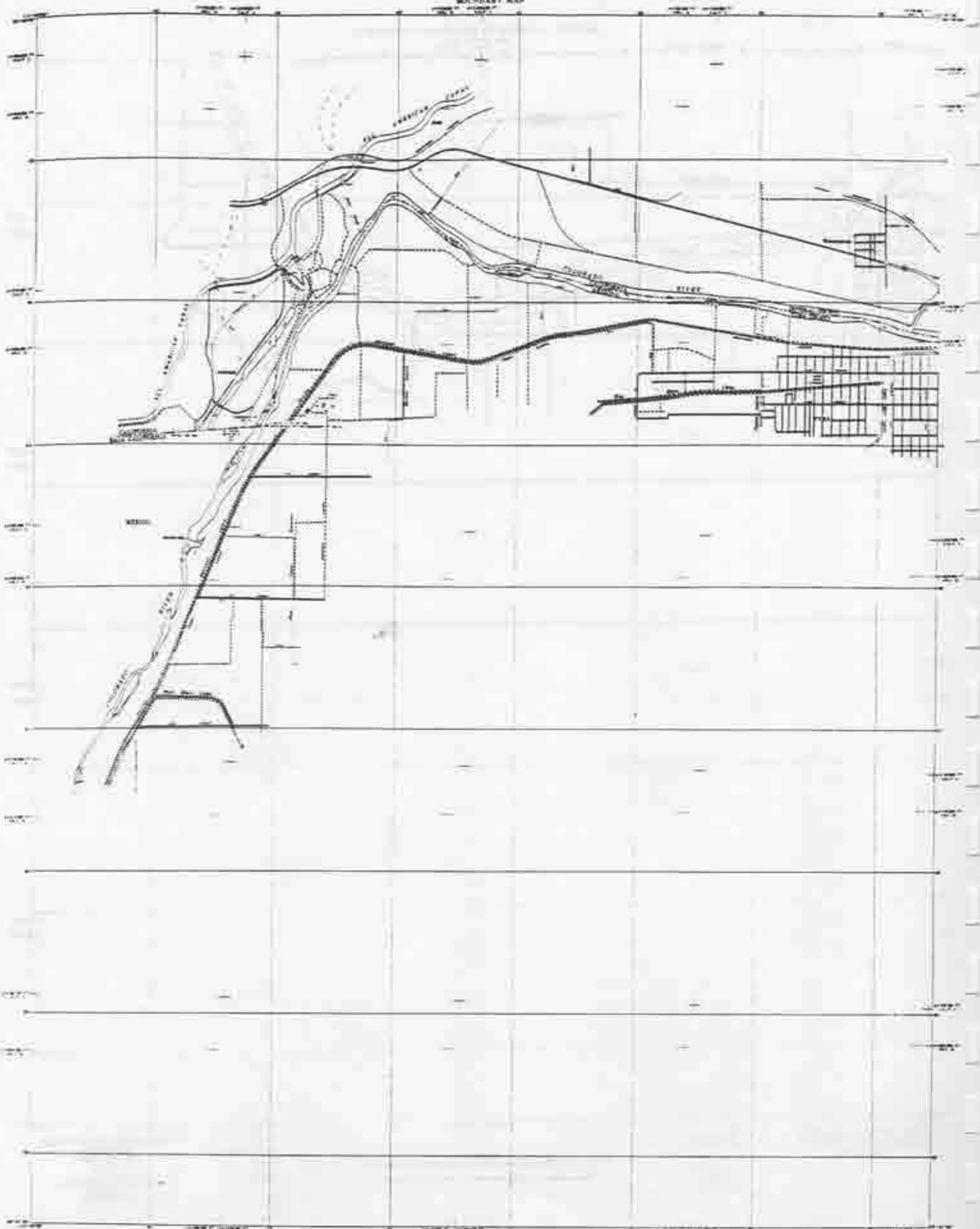
- Boundary
- Colorado River
- Gila River
- San Pedro River
- Alluvial Channel
- Old Channel
- New Channel
- Right-of-Way
- Survey Line
- Monument
- Station
- Section Corner
- Township Corner
- Range Corner
- Meridian Corner
- Section Line
- Township Line
- Range Line
- Meridian Line

ARIZONA-CALIFORNIA BOUNDARY COMMISSION
RECORD MAP 17
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IN ACCORDANCE WITH THE ACT OF MARCH 3, 1899, CHAP. 108, 30 STAT. 544
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ARIZONA-CALIFORNIA BOUNDARY COMMISSION
BOUNDARY MAP



ARIZONA - CALIFORNIA BOUNDARY COMMISSION
BOUNDARY MAP



Approved by U.S. Department of Interior, 1908
Approved by U.S. Department of State, 1908
Approved by U.S. Department of War, 1908



- Boundary Commission
- Colorado River
- Colorado Desert
- San Antonio River
- San Antonio Canal
- ...

ARIZONA-CALIFORNIA BOUNDARY COMMISSION
BOUNDARY MAP
1908

An aerial photograph of the Colorado River, showing the winding path of the river and the surrounding terrain. The river is the central focus, with its banks visible on either side. The terrain appears to be a mix of flat and slightly elevated areas, with some vegetation and structures visible along the riverbanks. The overall tone is somewhat muted, typical of an aerial photograph.

ARIZONA-CALIFORNIA BOUNDARY COMMISSIONS

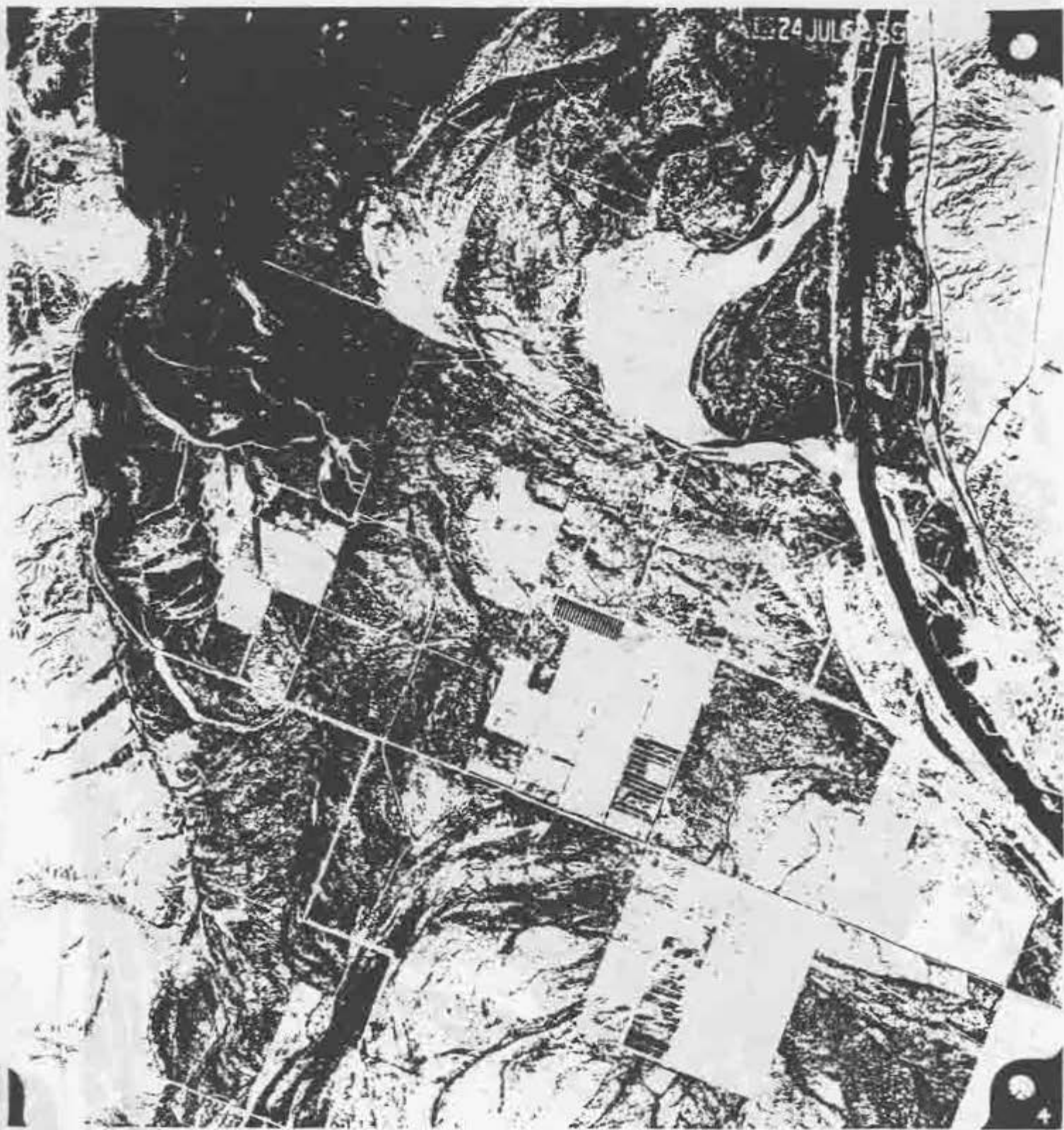
AERIAL PHOTOGRAPHS

A series of 46 Aerial Photographs of the Colorado River showing the 34 Boundary Points and 215 Boundary Subpoints on the Arizona-California Boundary.



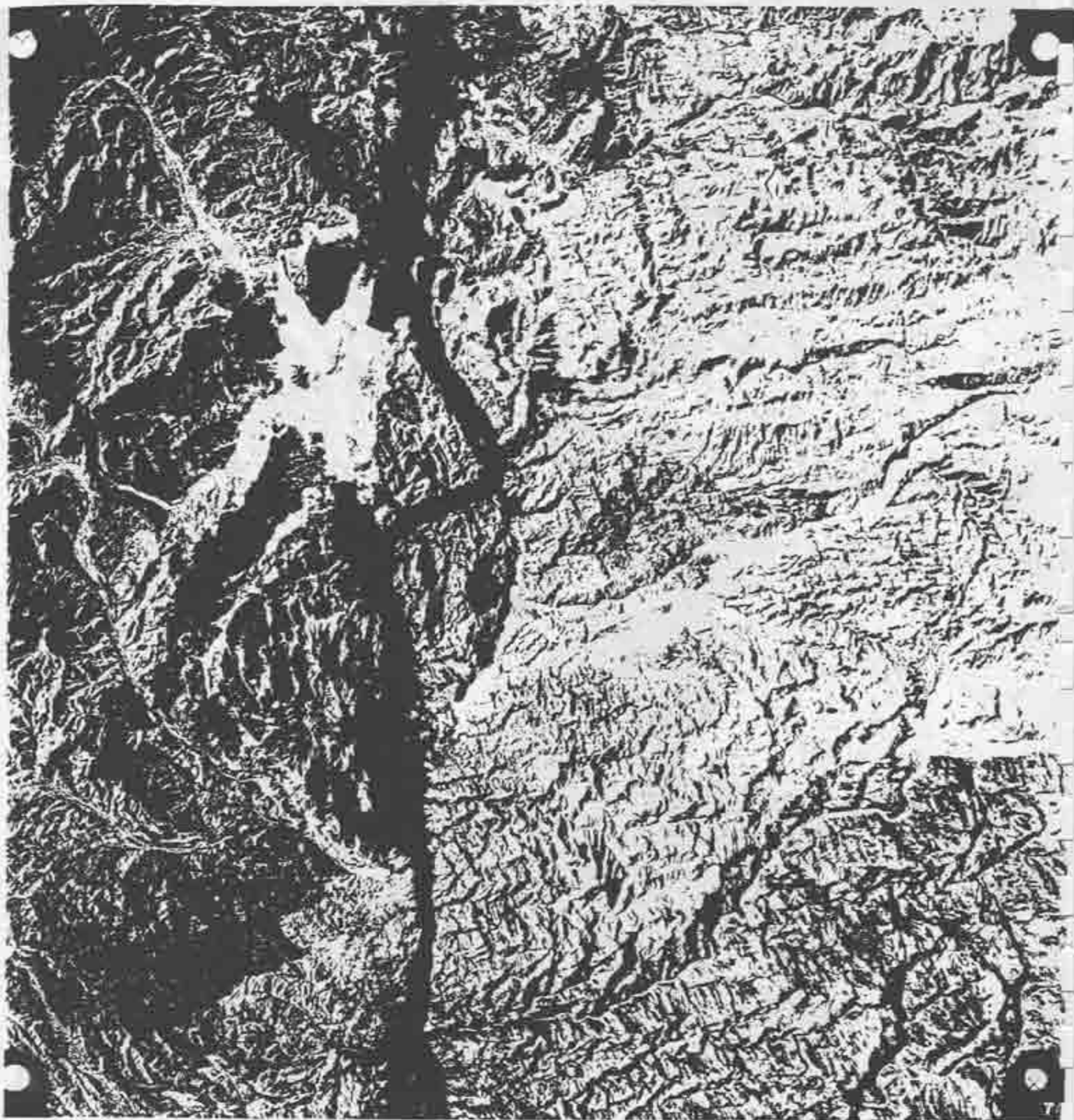


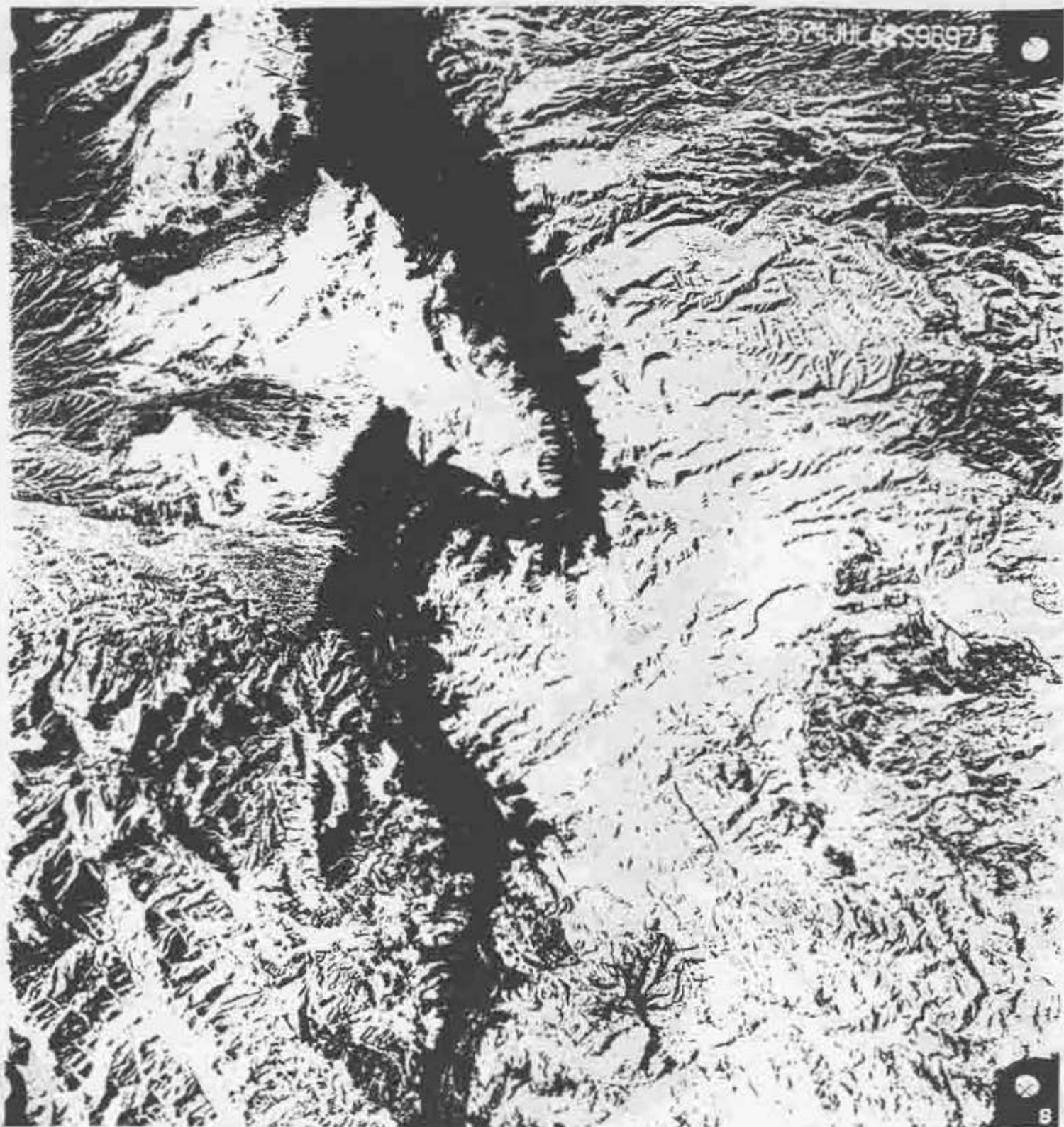


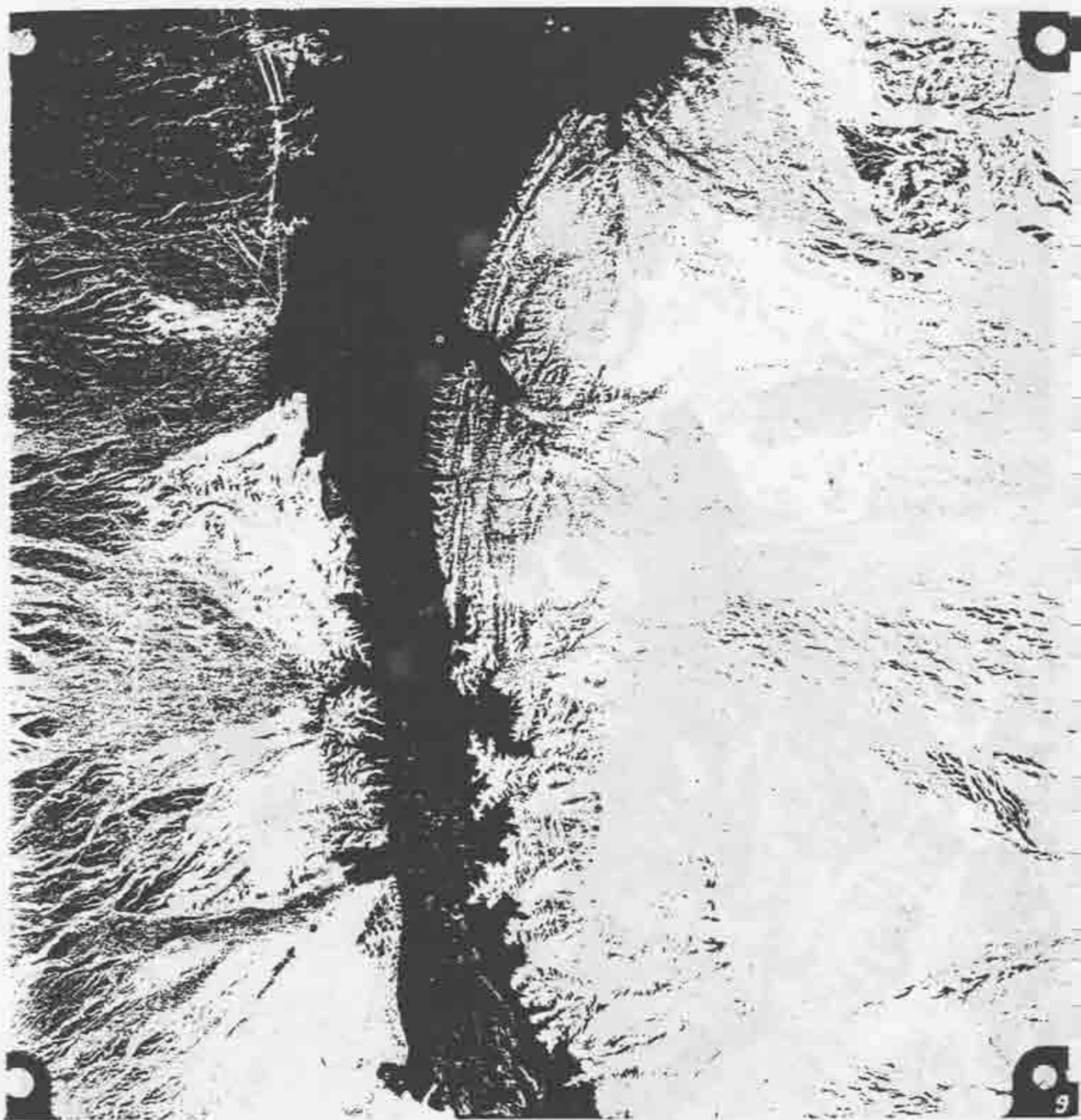


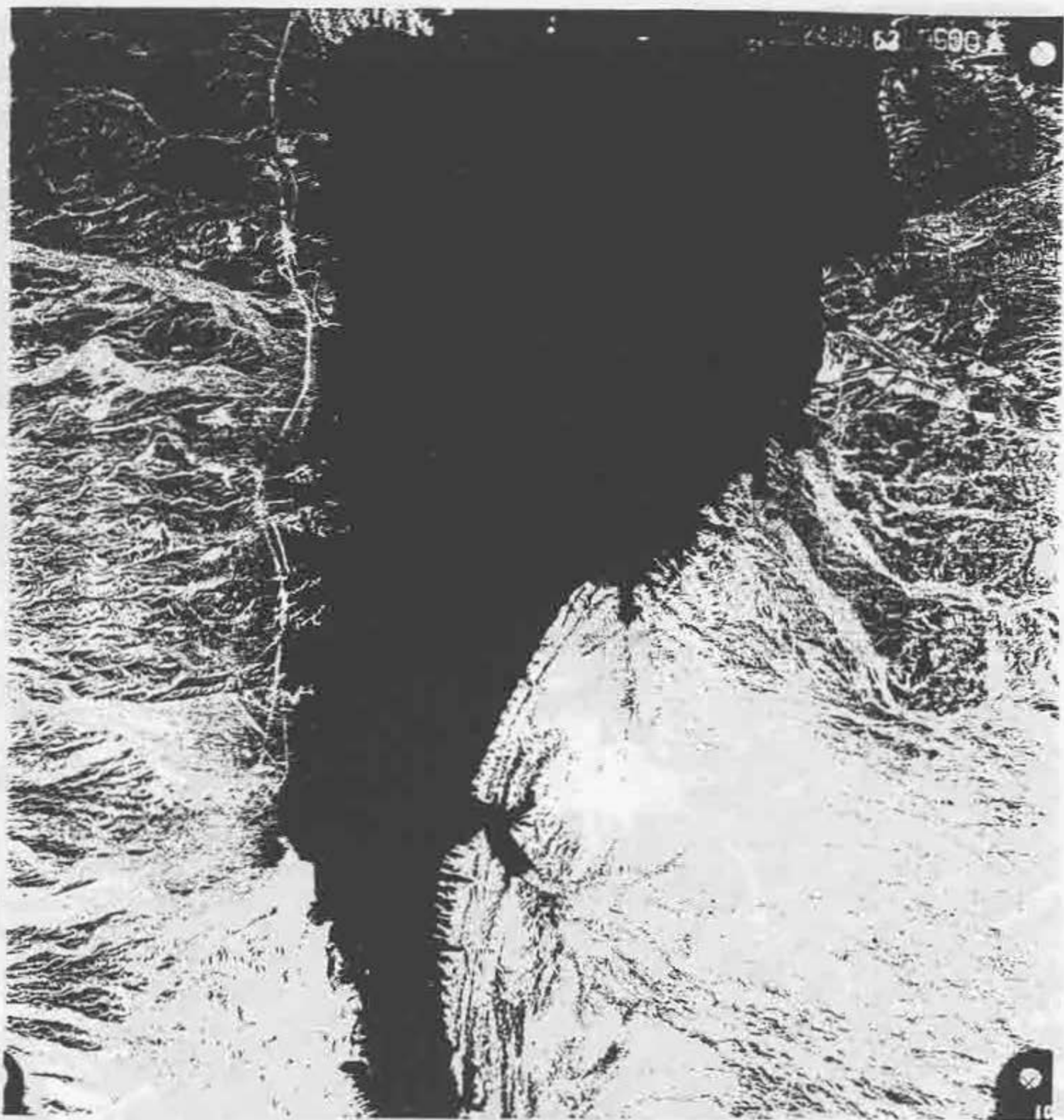


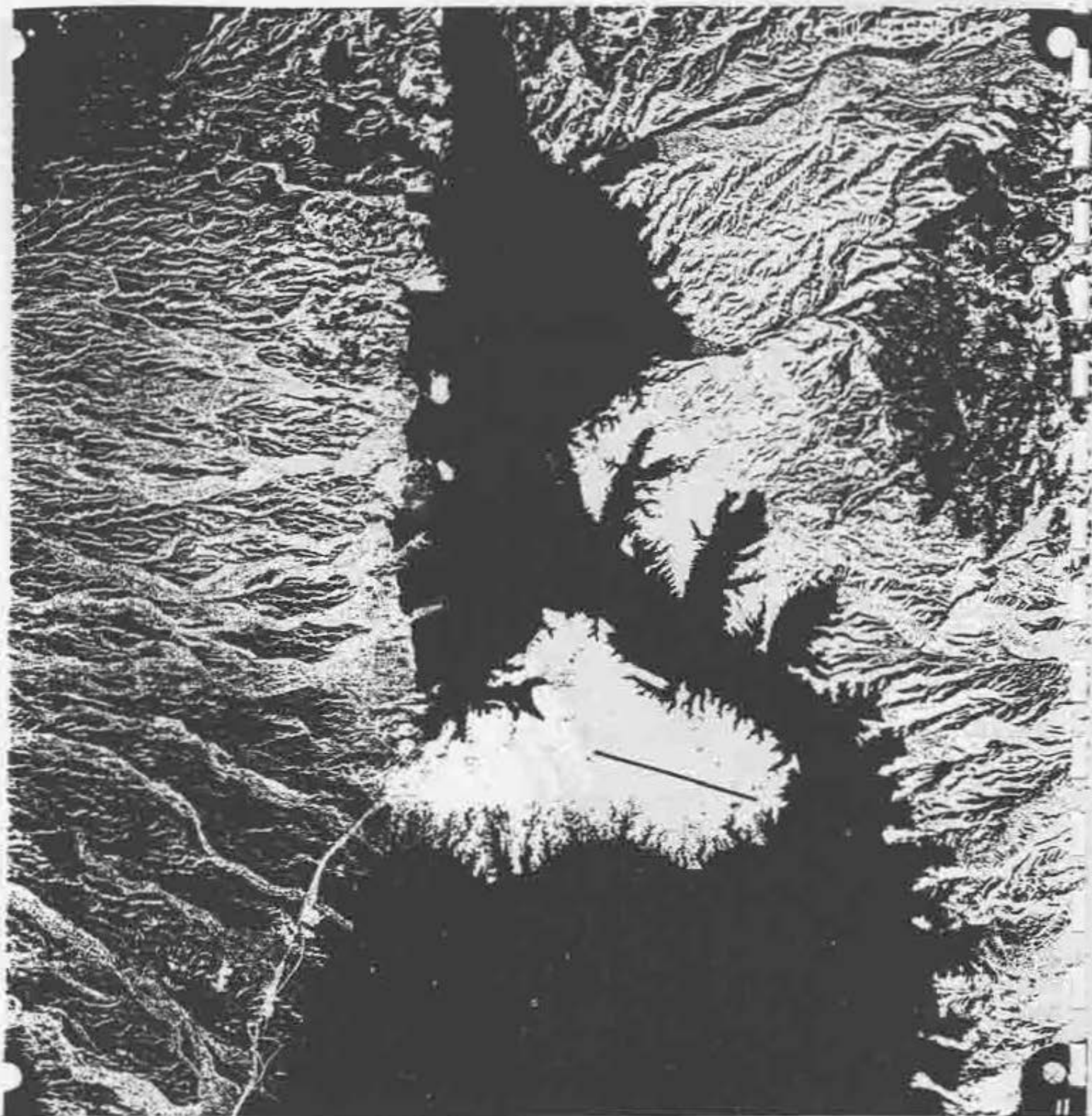


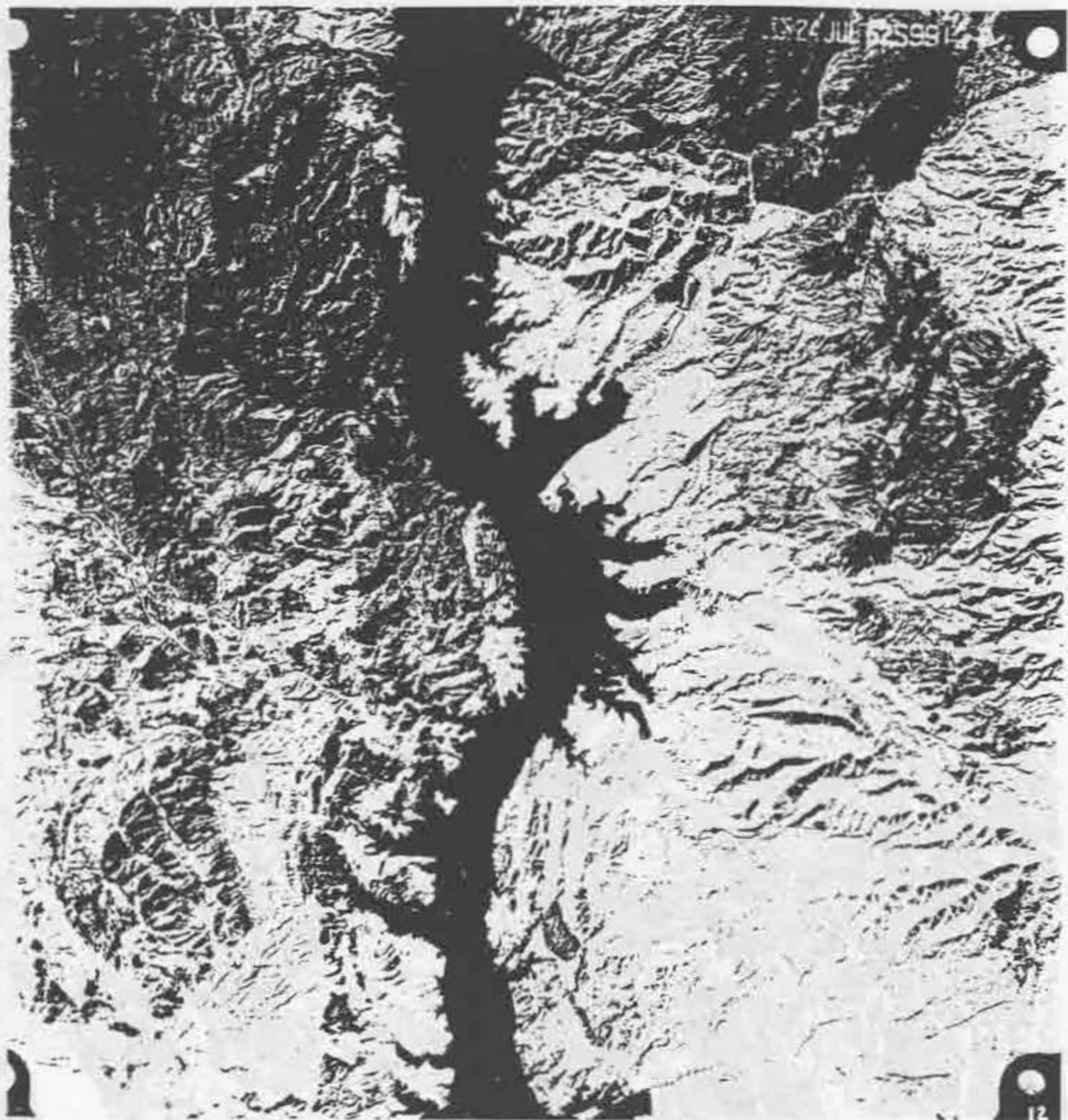


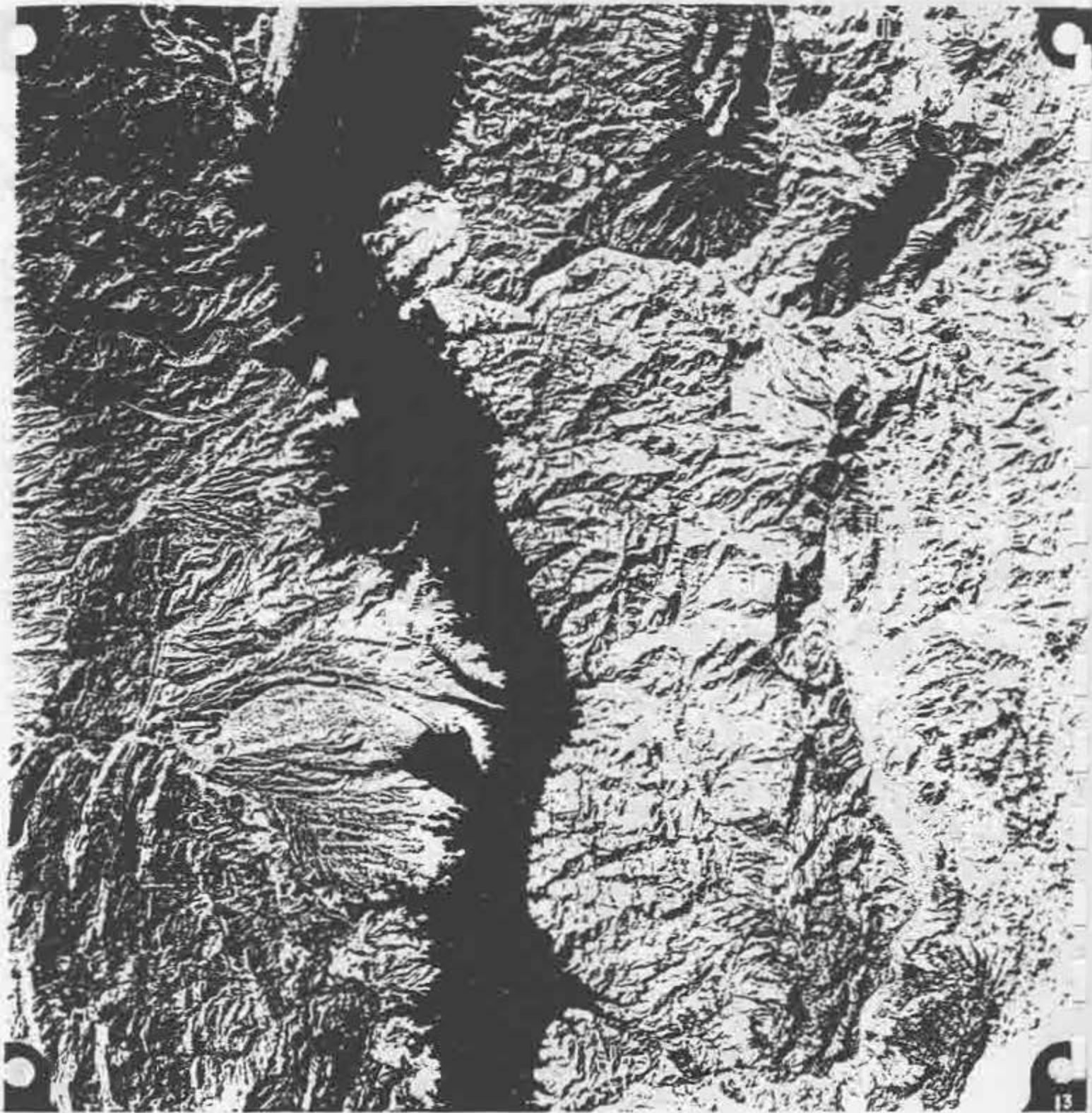


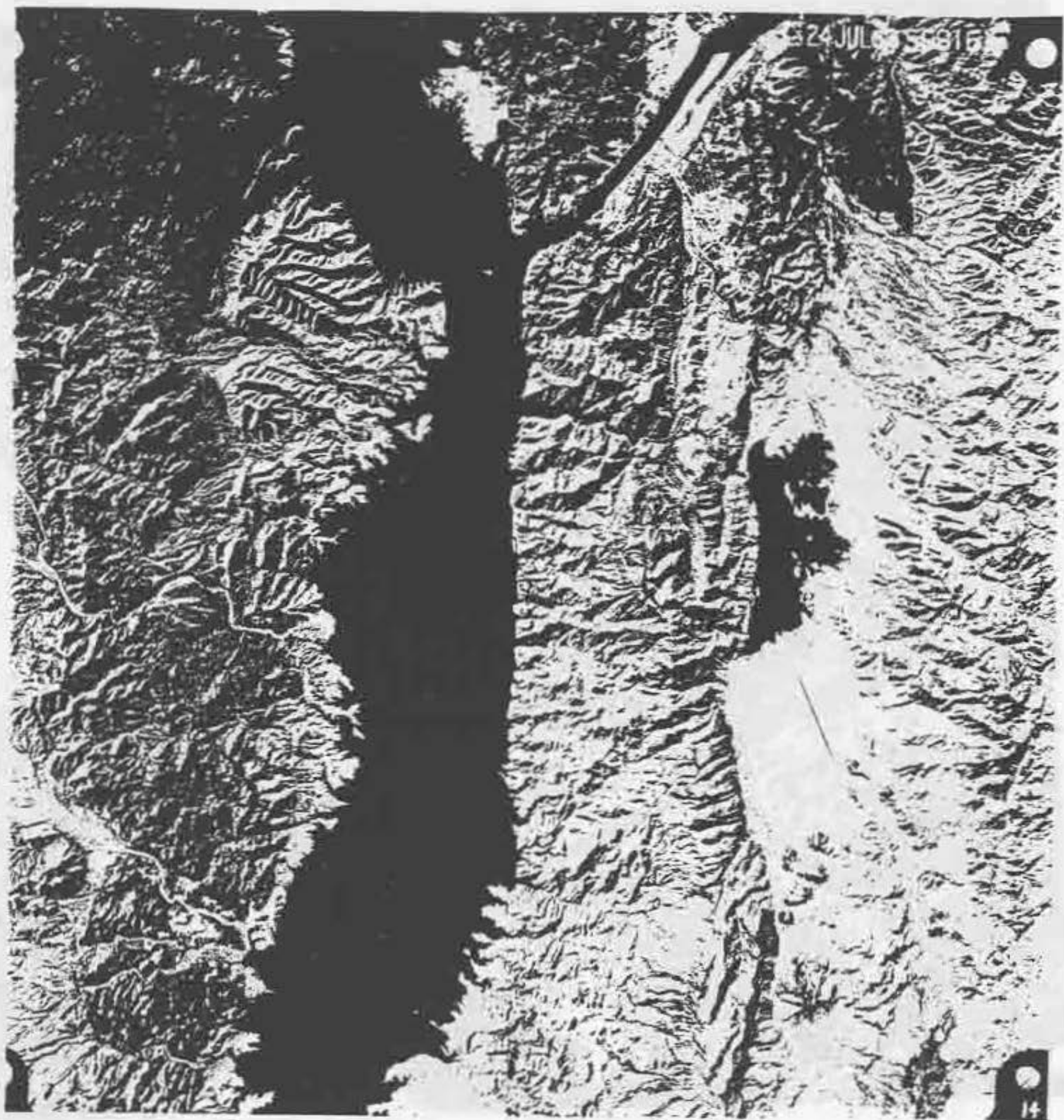


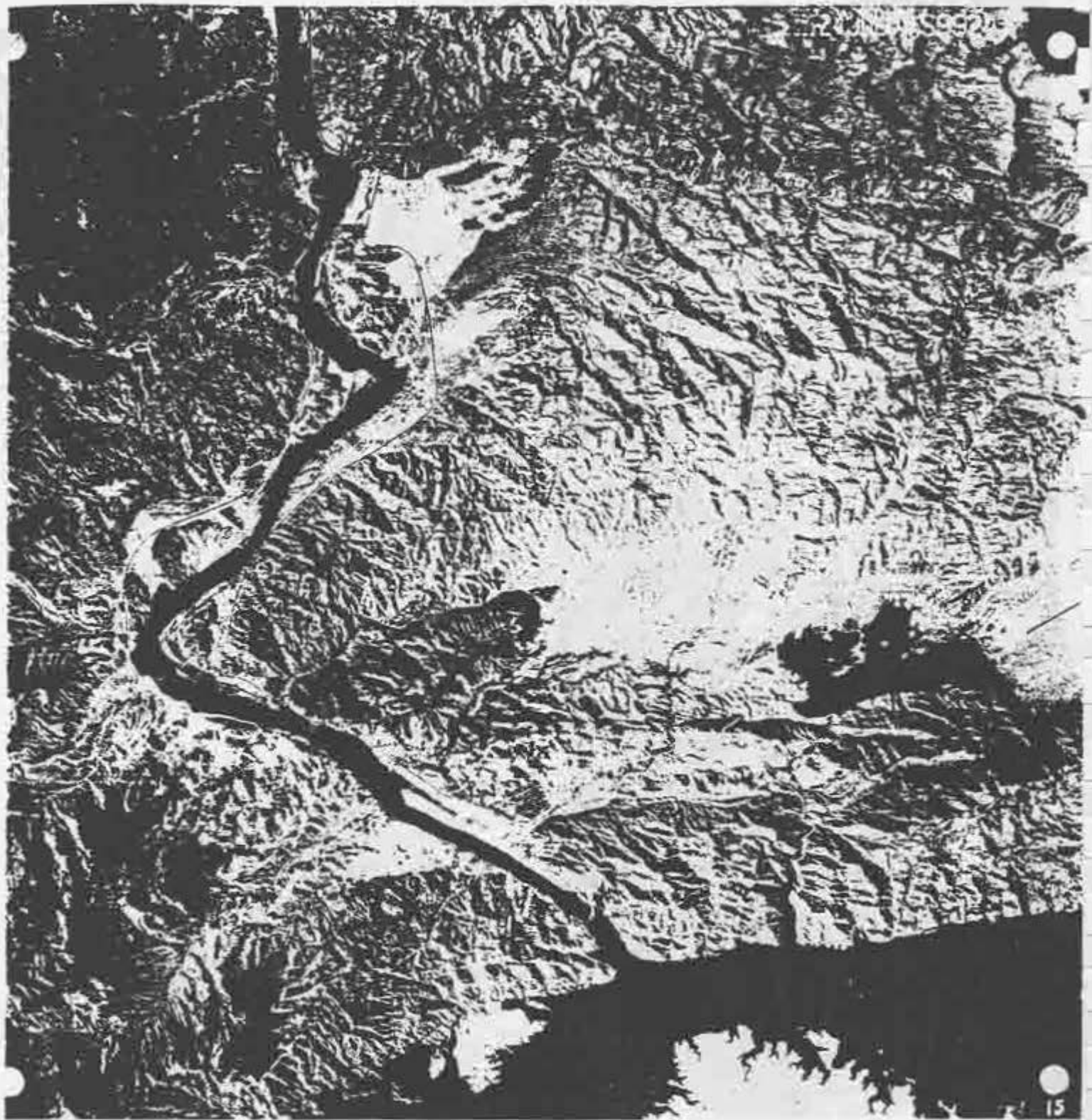




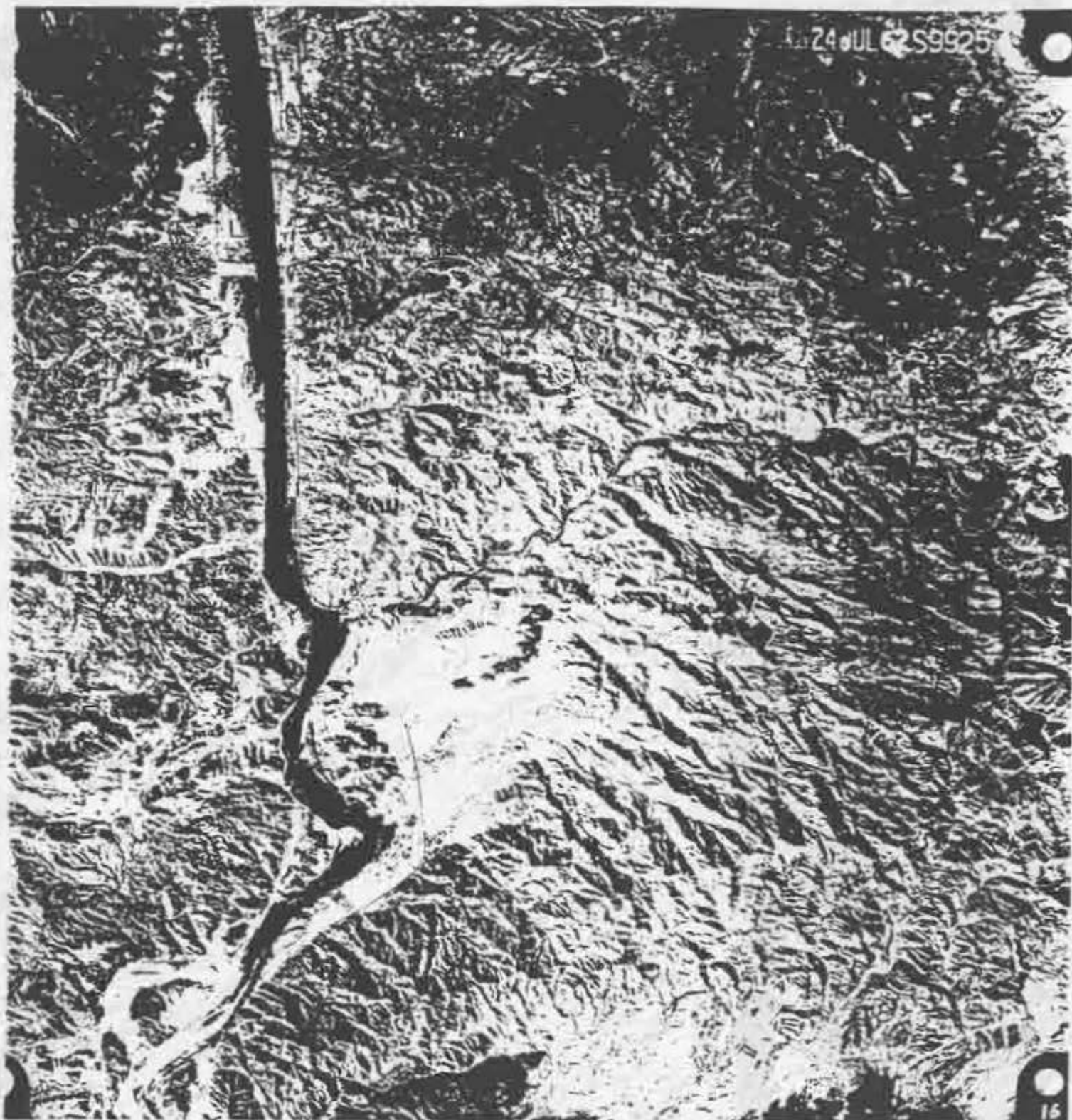


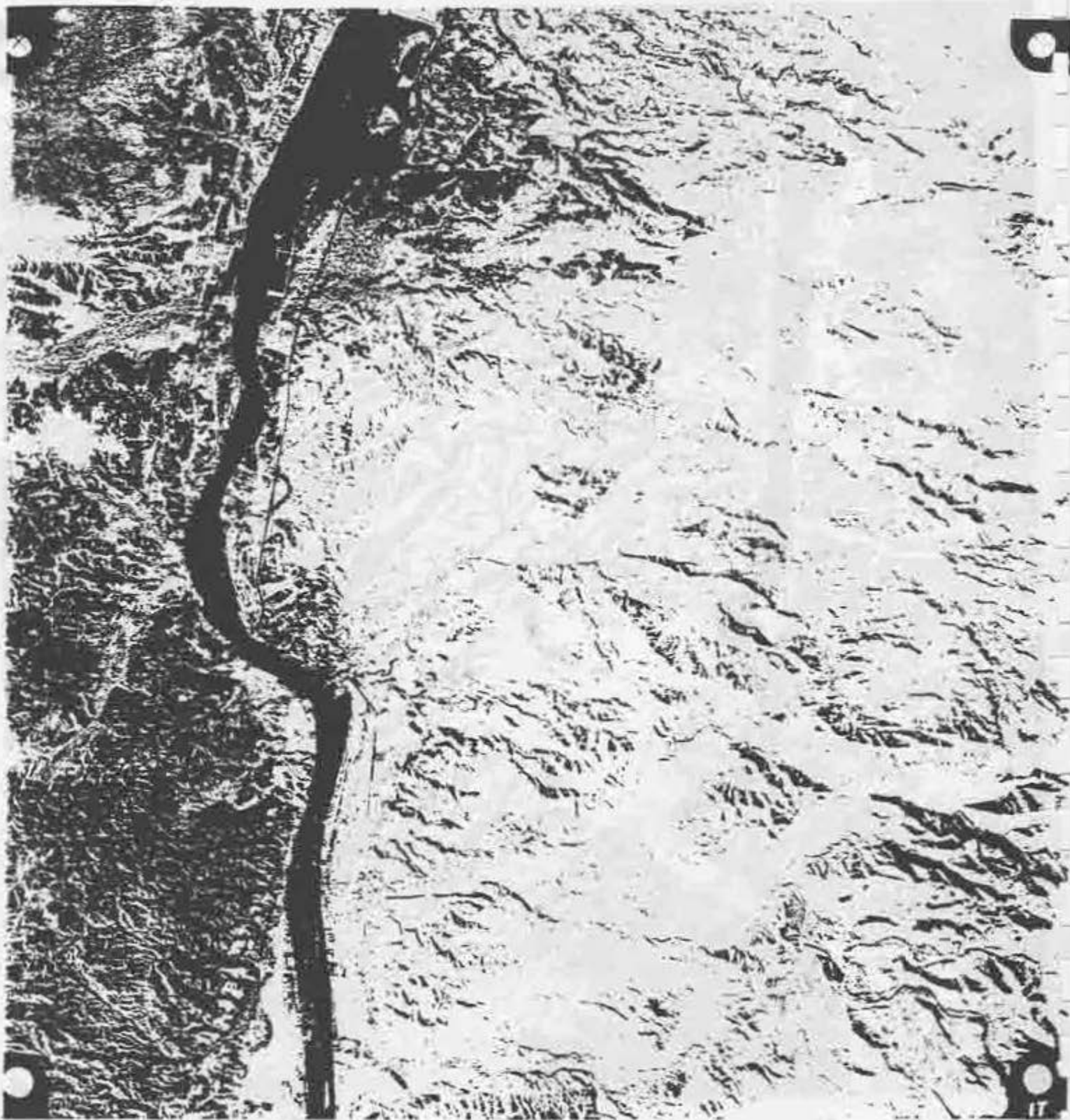






15



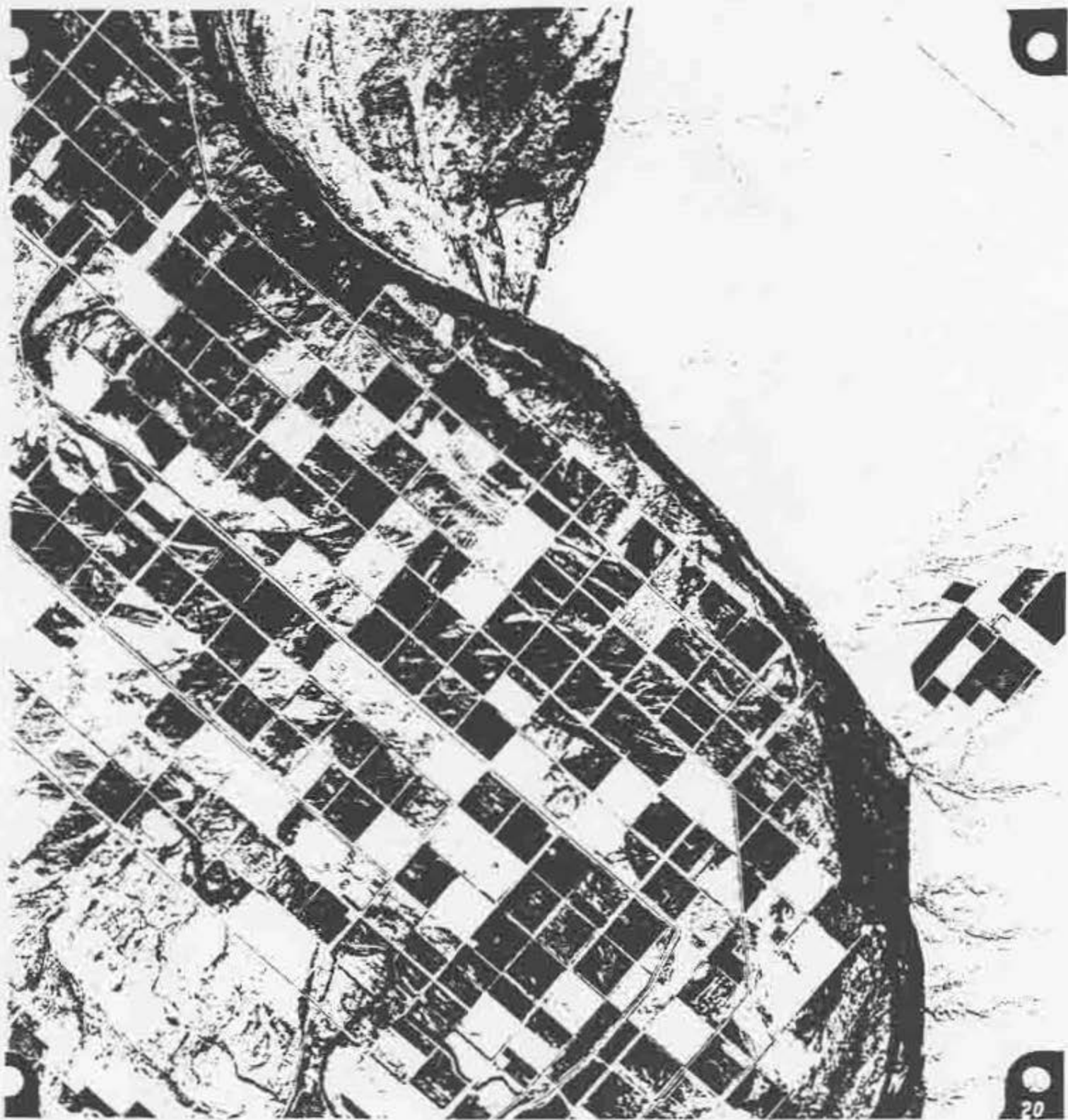






SGE

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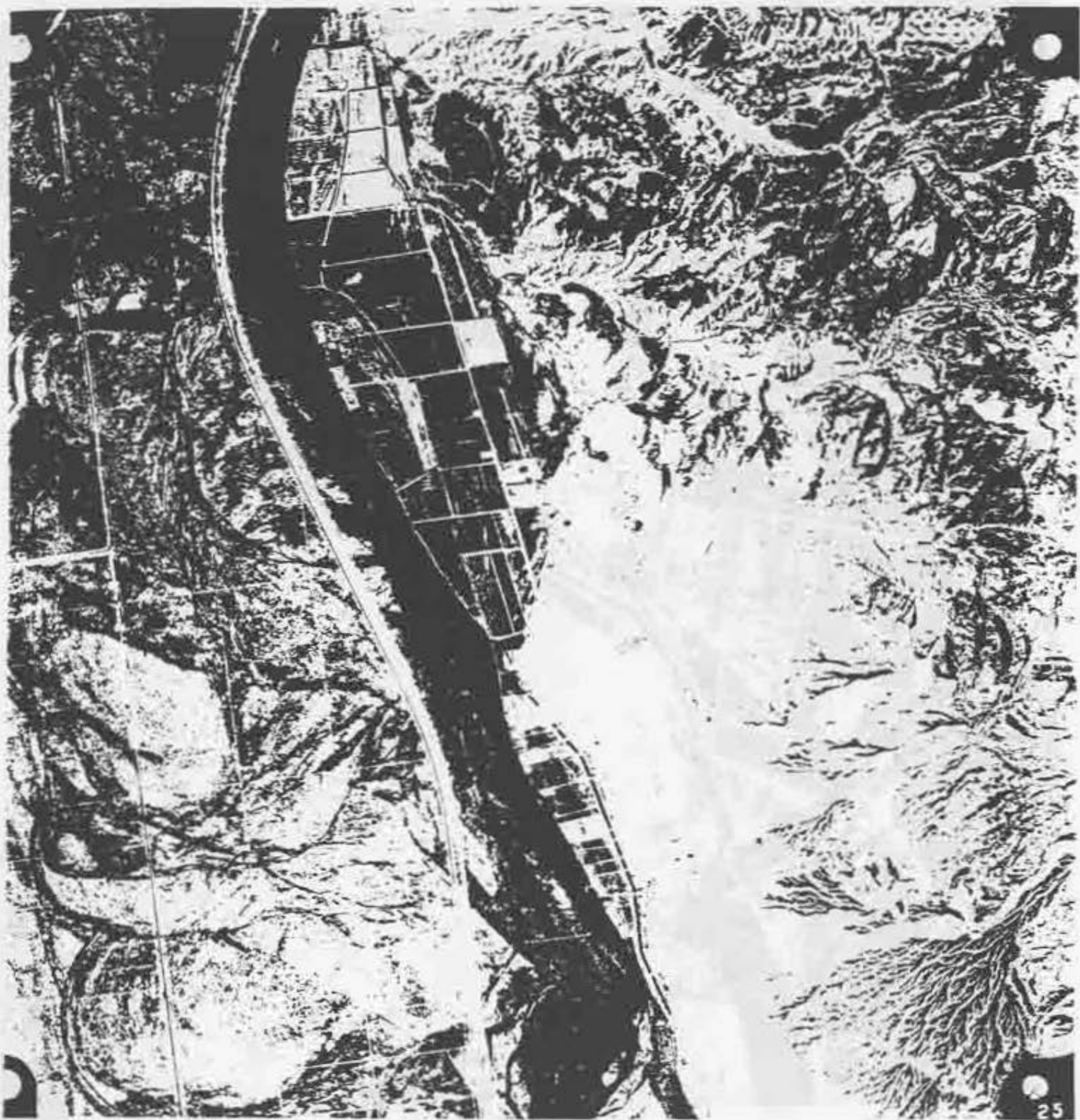






23

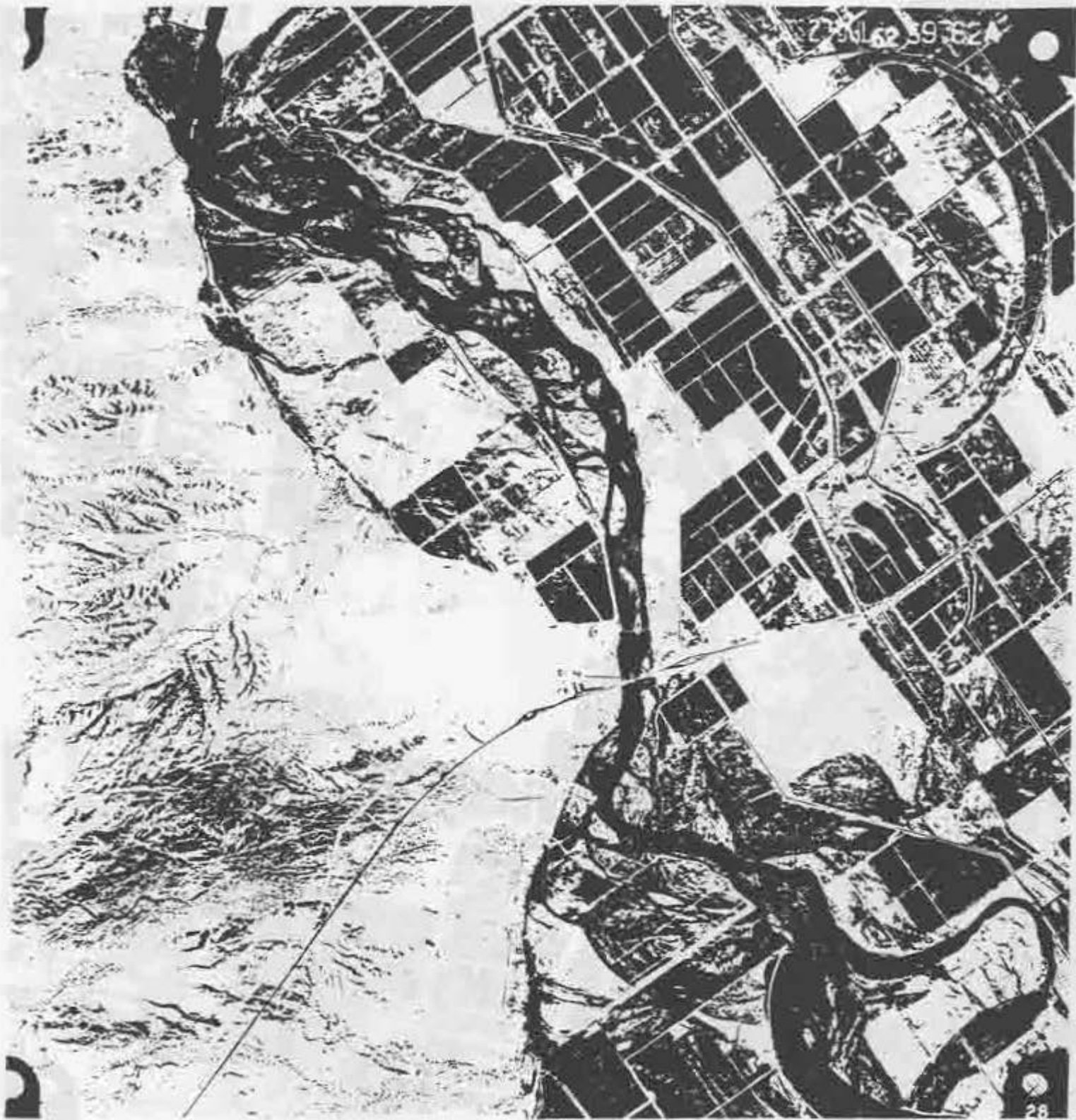


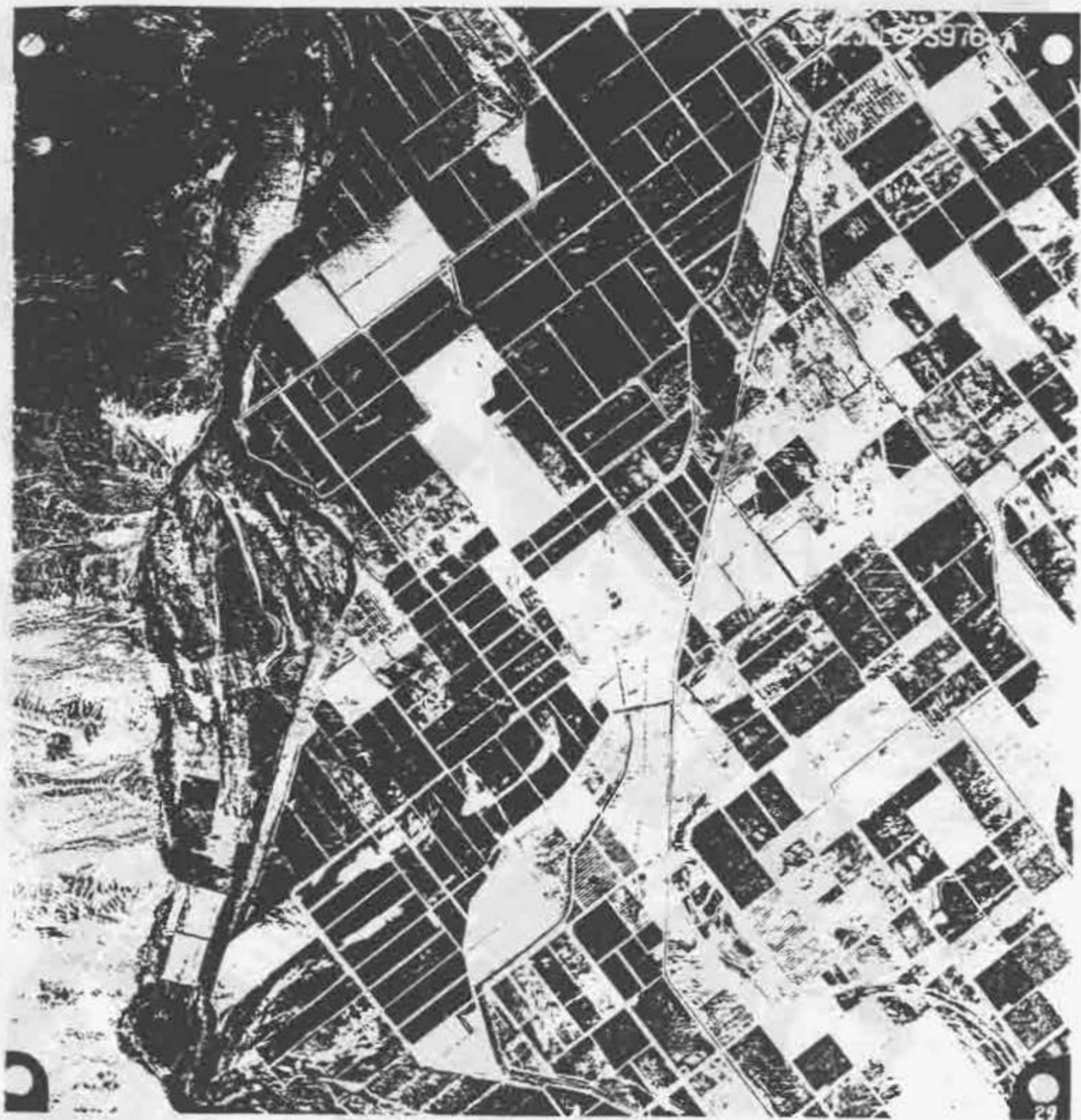


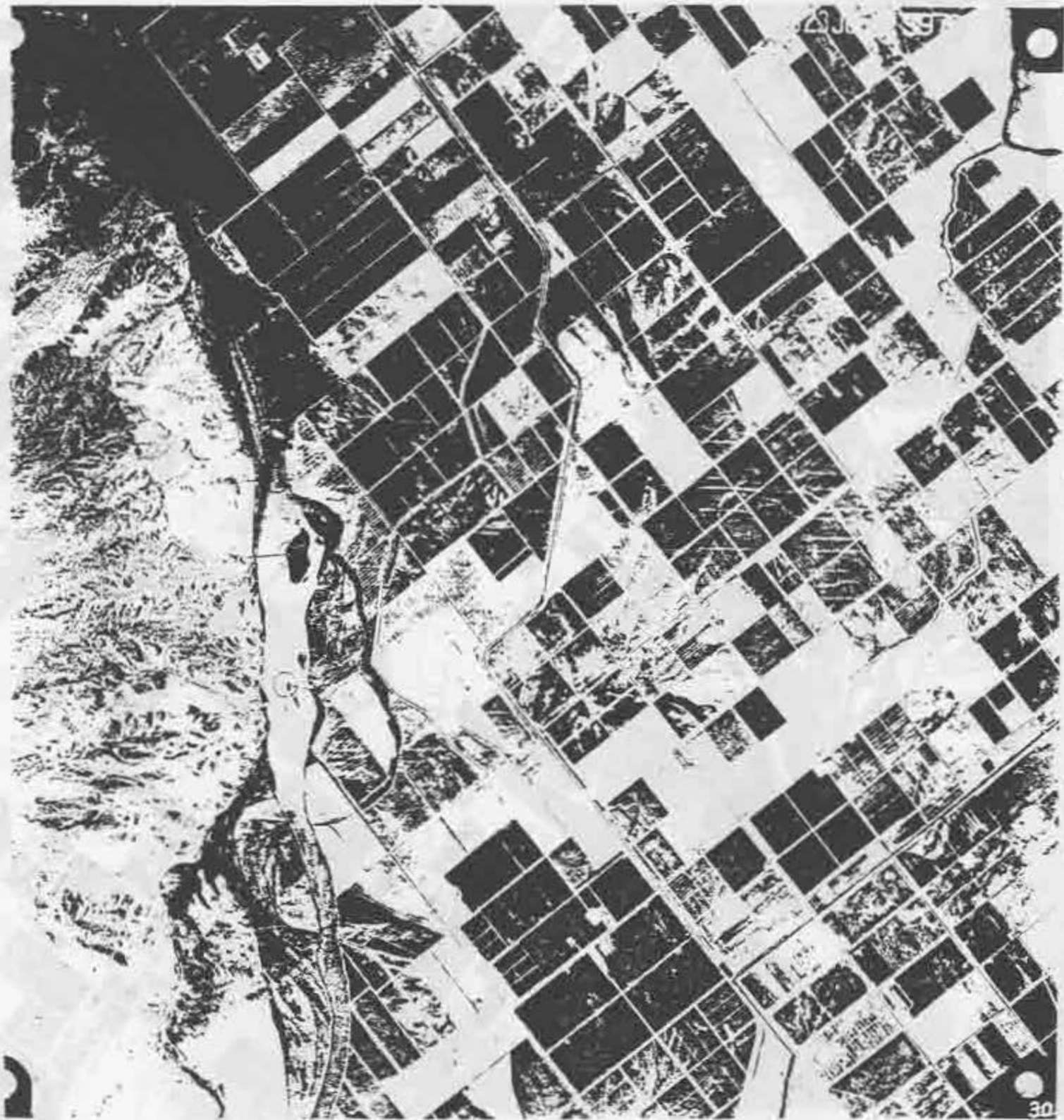
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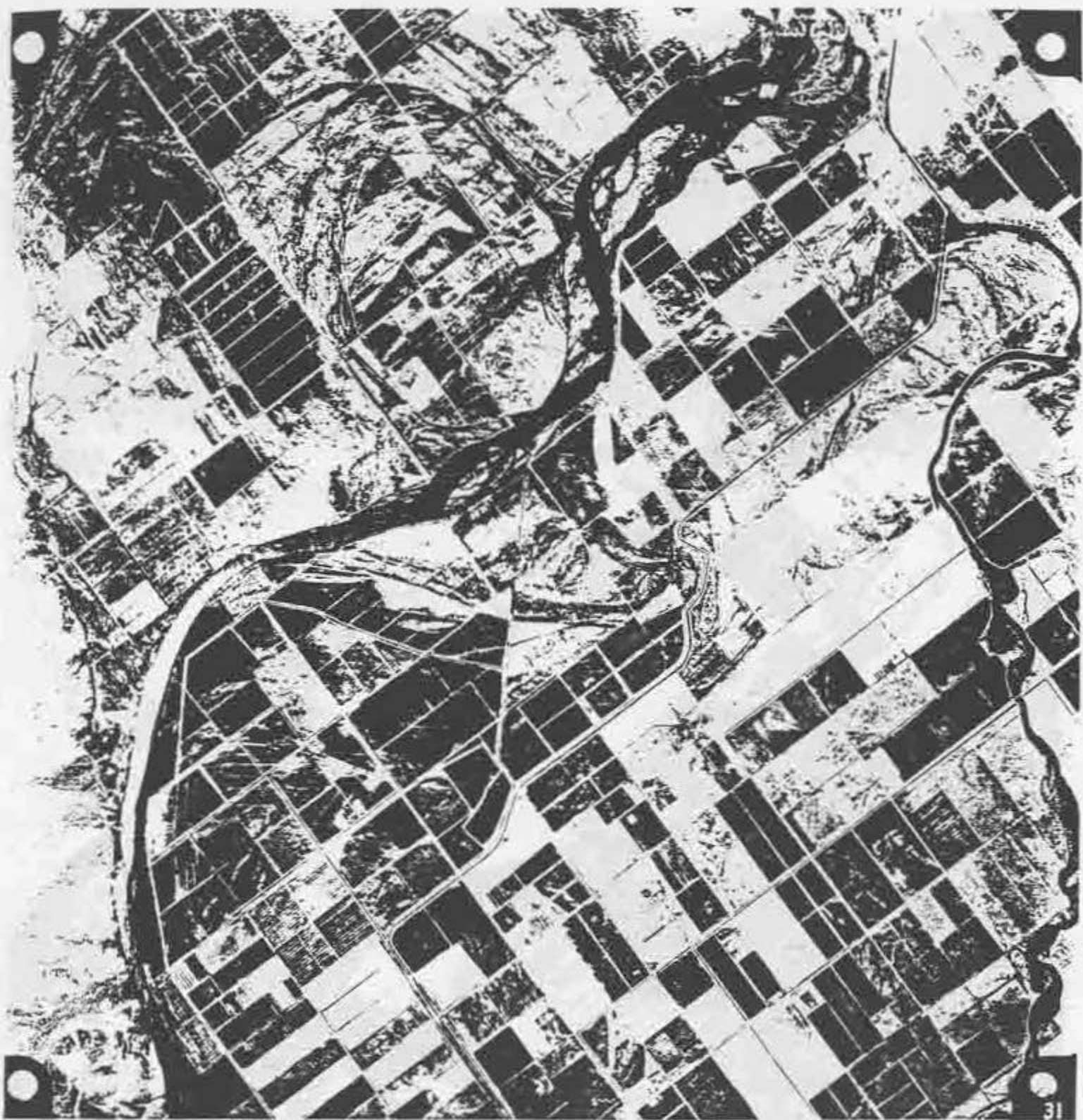


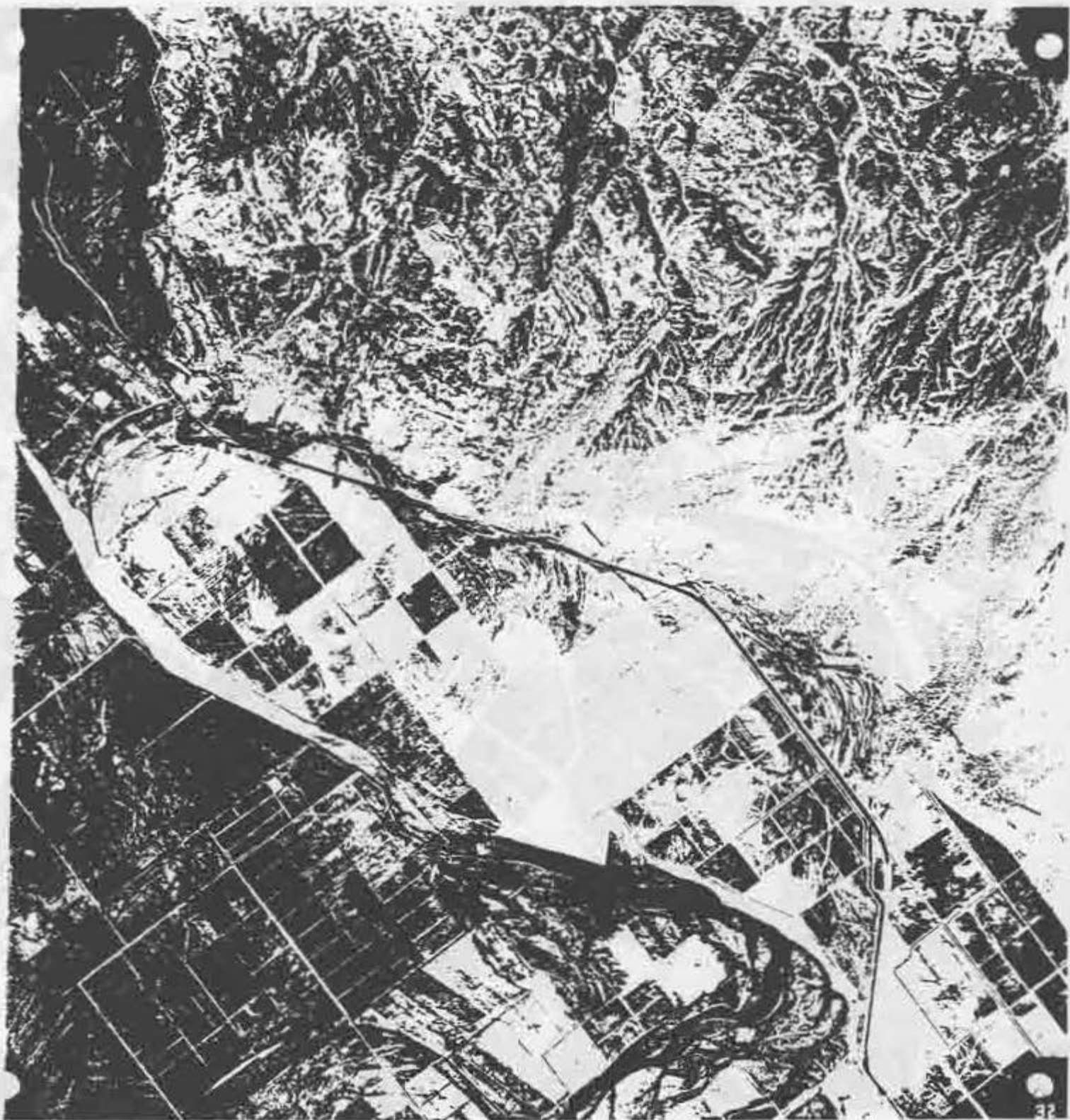


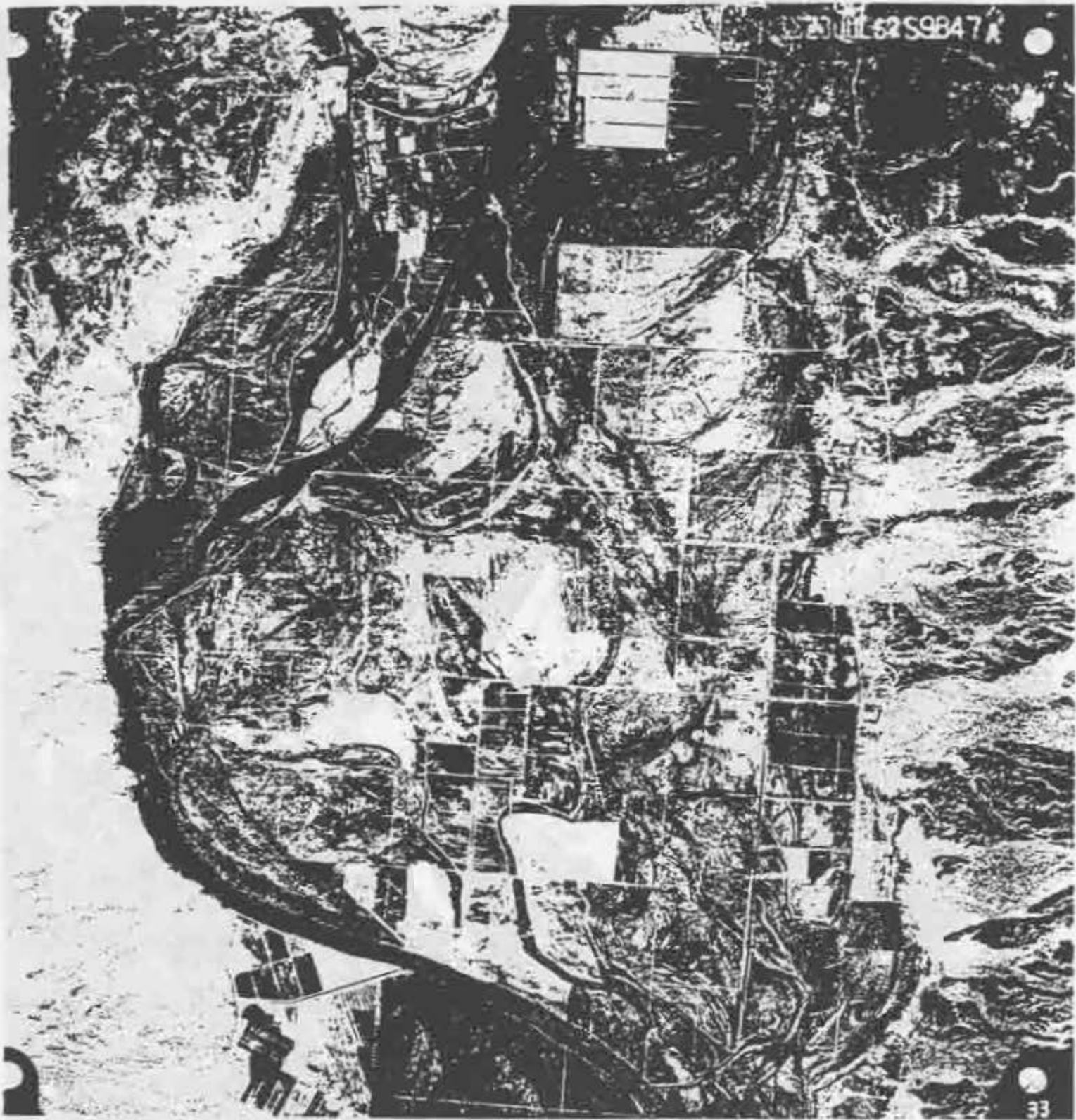


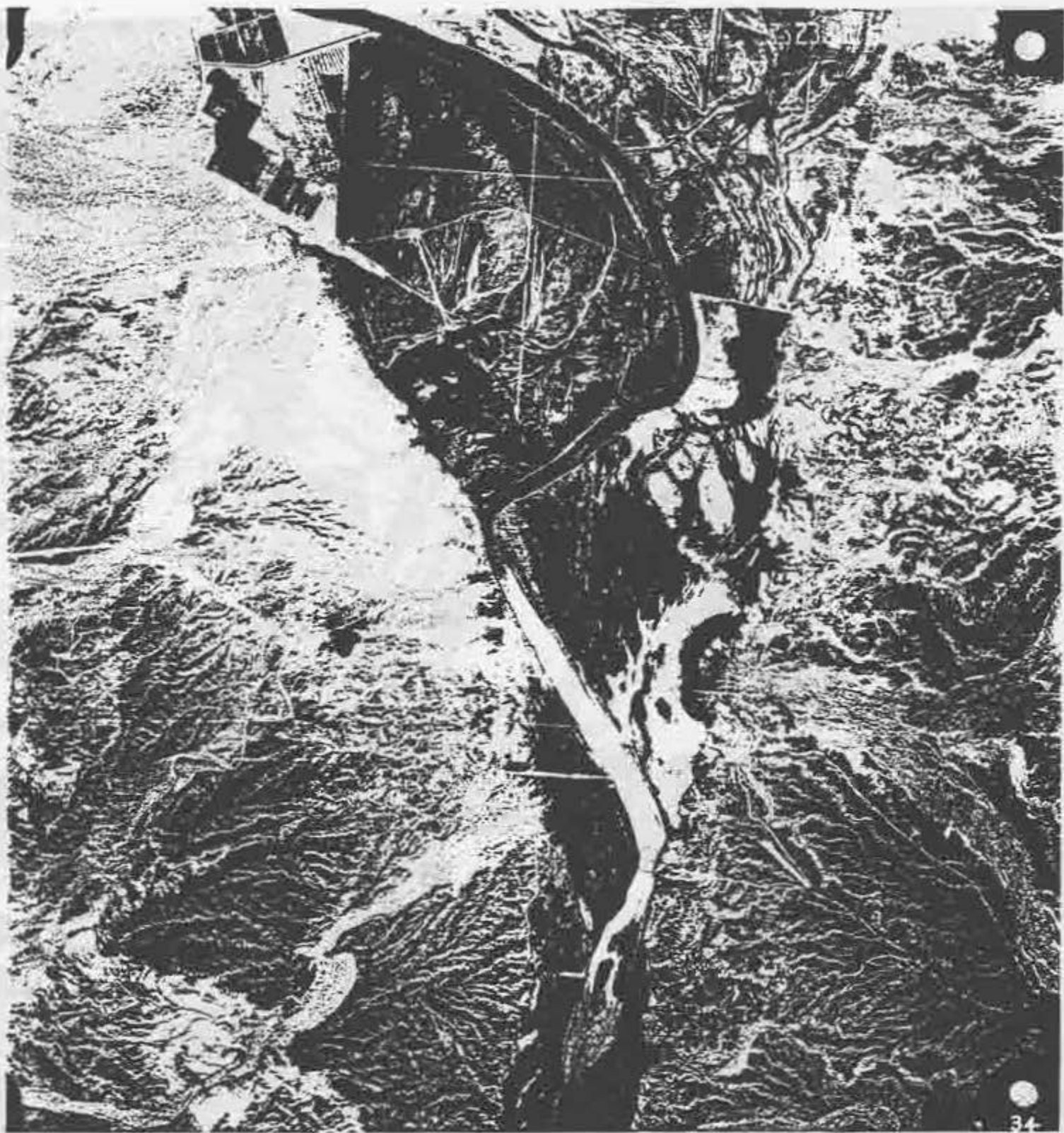




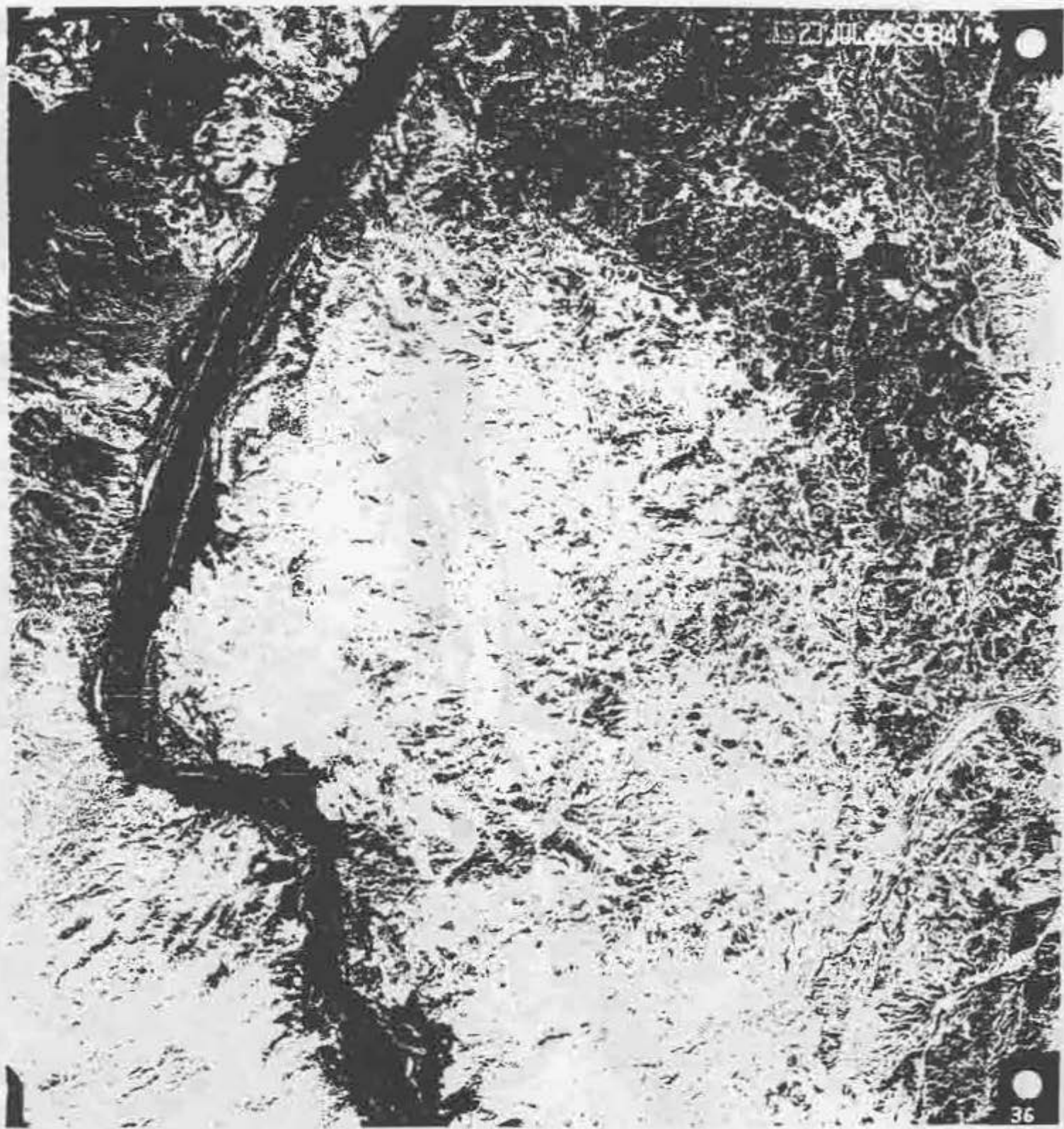


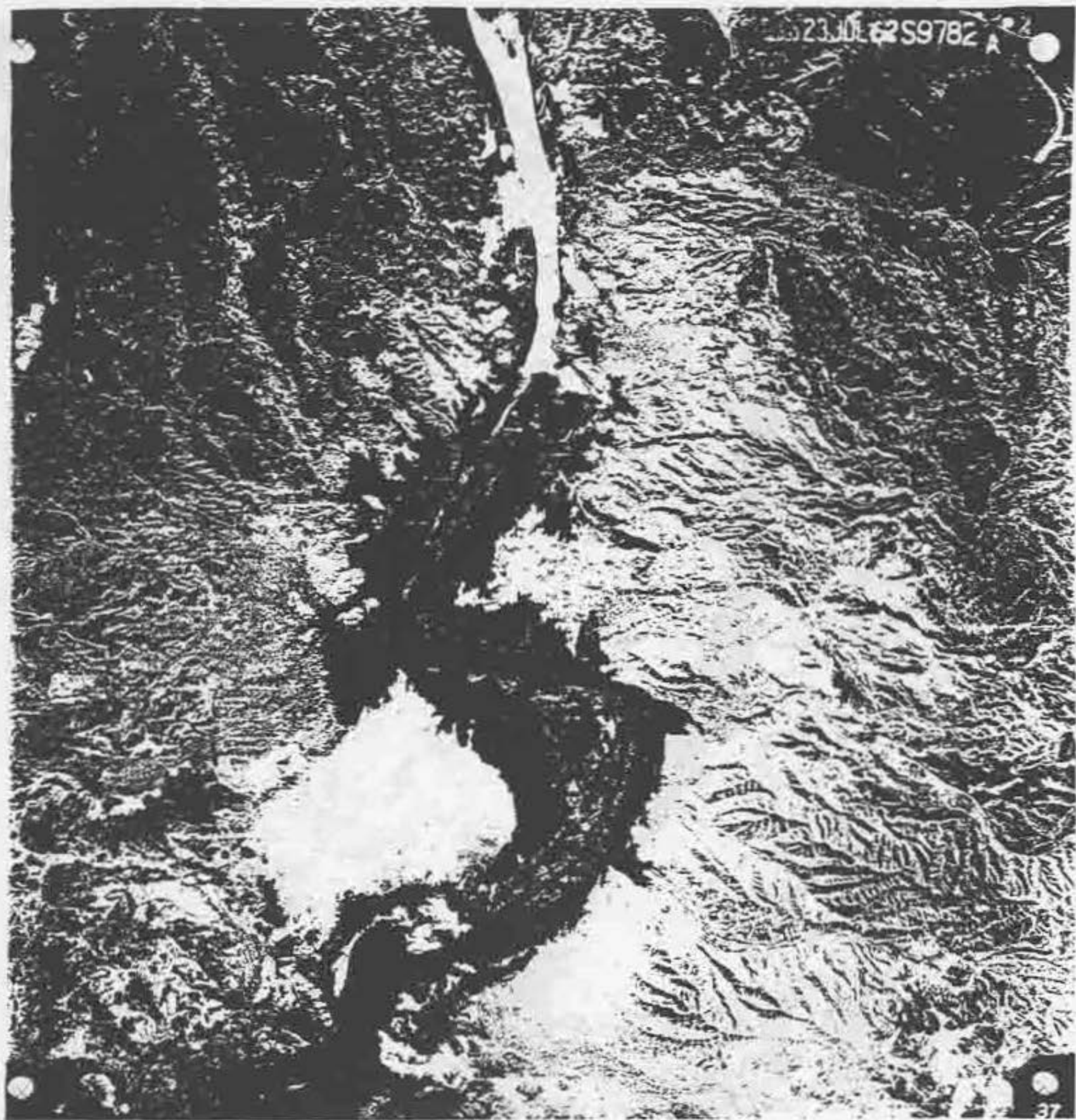


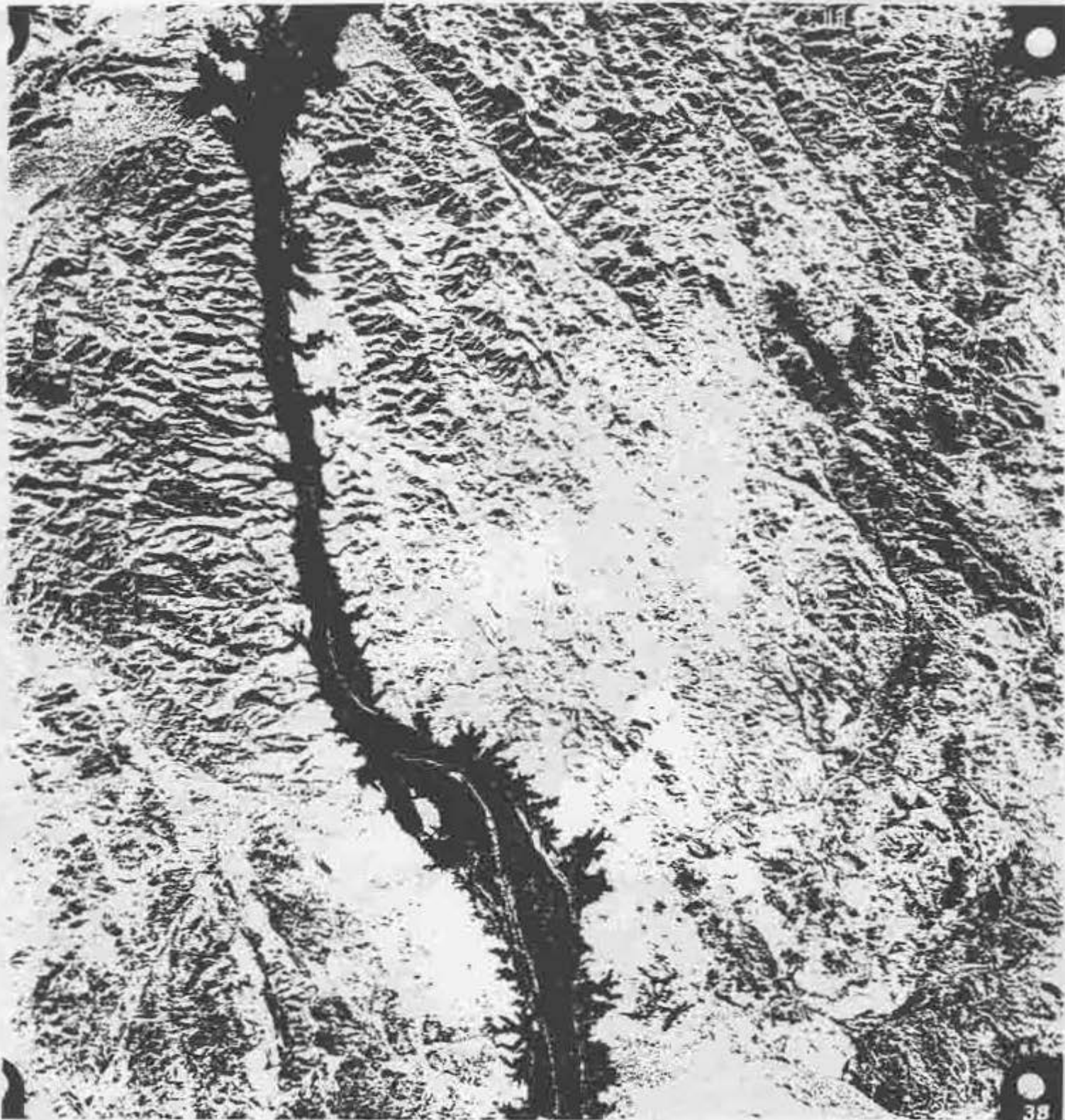


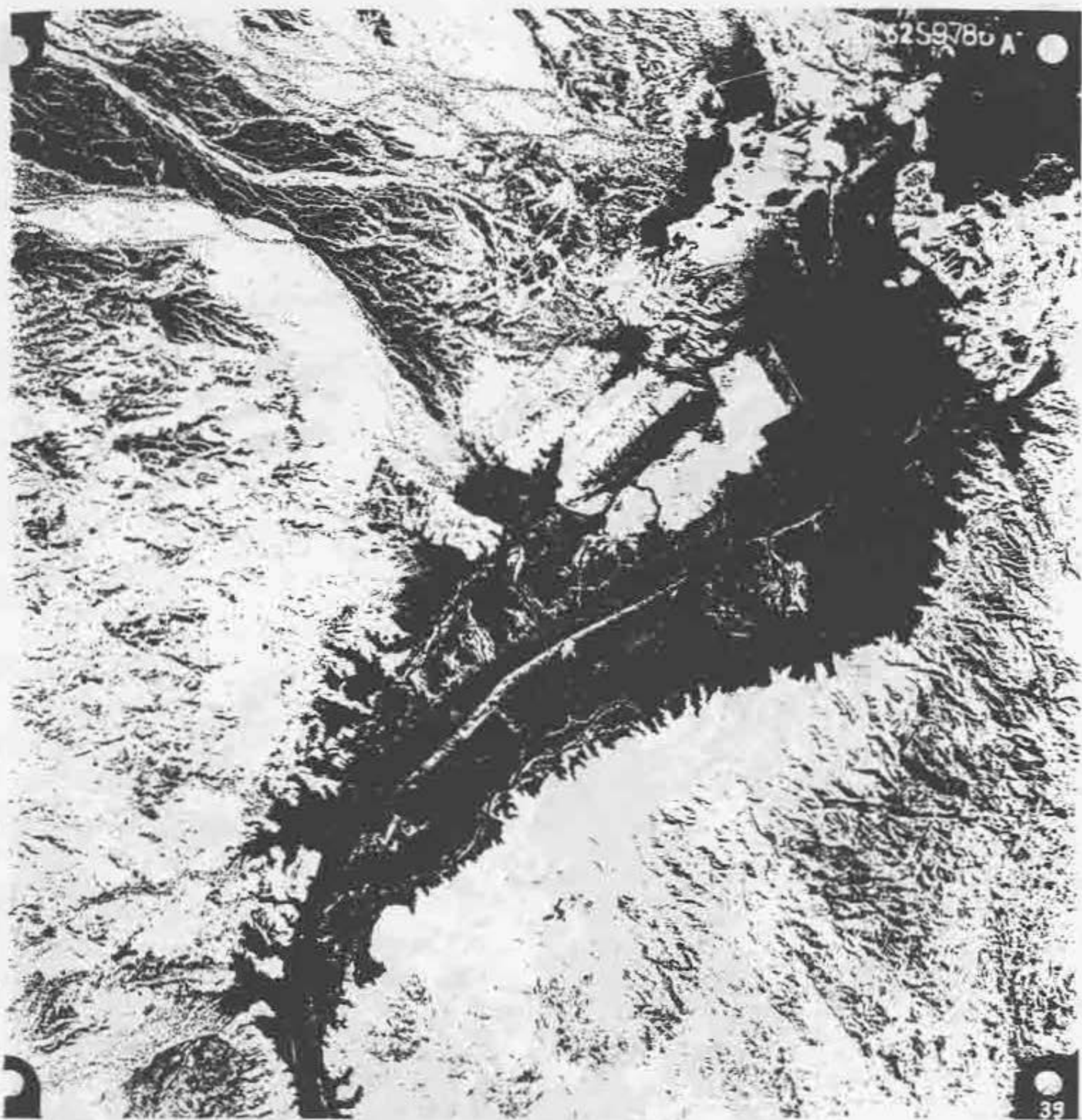


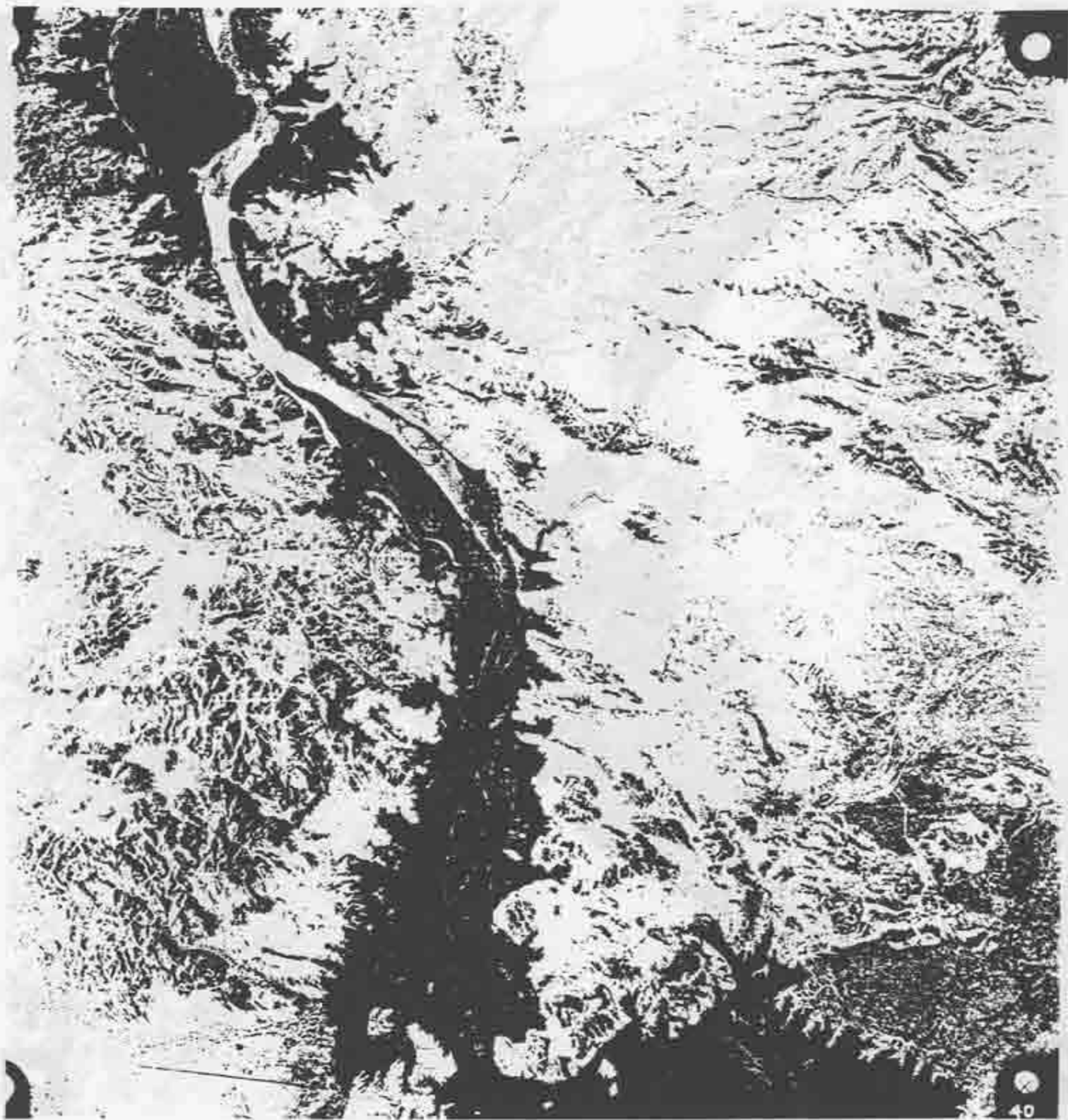


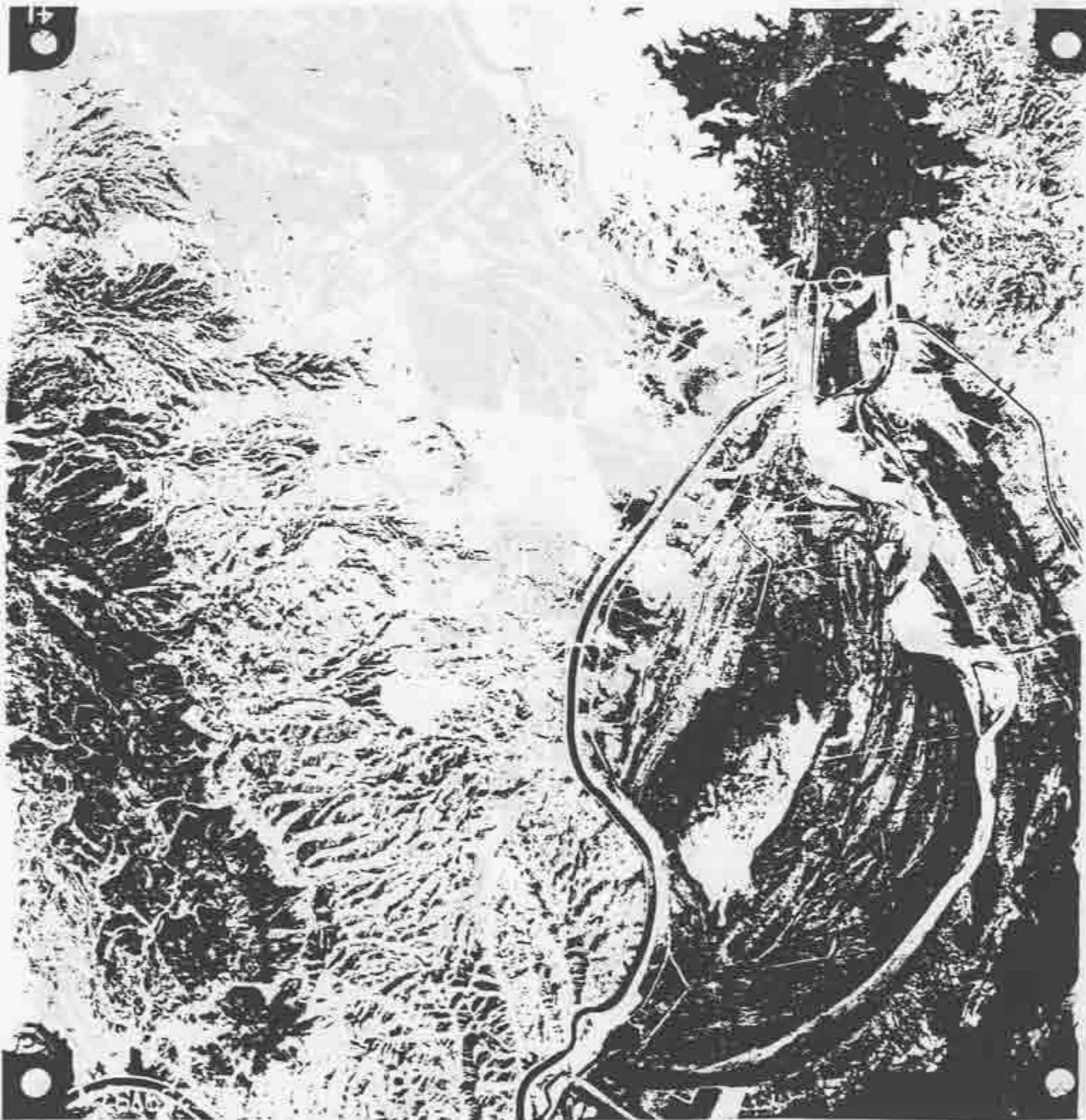






















ARIZONA-CALIFORNIA BOUNDARY COMMISSIONS

GEOGRAPHIC POSITIONS
and
PLANE COORDINATES

Arizona-California Boundary, Reference Stations for Boundary Points not Monumented
Final Geographic Positions and Plane Coordinates

Station Number	* Code	NA 1927 Datum - Second Order		State Plane Coordinates		θ or Δs Angle
		Latitude	Longitude	x-feet	y-feet	
0	203	35 00 12.45882	114 38 03.31001	235184.23	1457728.62	0 30 26.1
0	2701	35 00 12.45882	114 38 03.31001	784221.48	93590.84	0 32 40.0
0	405	35 00 12.45882	114 38 03.31001	3007769.34	564010.63	1 55 06.7
1	203	35 00 00.12984	114 37 48.04945	236442.79	1456470.95	0 30 17.2
1	2701	35 00 00.12984	114 37 48.04945	785502.88	92356.51	0 32 48.6
1	405	35 00 00.12984	114 37 48.04945	3009079.90	562807.46	1 55 15.4
2	203	34 43 23.99286	114 29 32.46678	276926.45	1355430.62	0 25 22.3
2	405	34 43 23.99286	114 29 32.46678	3053797.17	463577.27	1 59 57.8
7	203	34 10 09.30826	114 16 01.35839	343602.04	1153368.91	0 17 25.4
7	405	34 10 09.30826	114 16 01.35839	3128942.45	264518.01	2 07 40.2
9	203	34 10 16.61734	114 17 11.37843	337722.53	1154138.12	0 18 04.8
9	405	34 10 16.61734	114 17 11.37843	3123035.66	265038.47	2 07 00.3
10	203	34 10 00.84448	114 17 35.21757	335711.02	1152554.35	0 18 18.1
10	405	34 10 00.84448	114 17 35.21757	3121092.74	263371.23	2 06 46.7
15	203	32 54 30.83248	114 27 41.36270	281636.87	695000.95	0 23 11.6
15	406	32 54 30.83248	114 27 41.36270	2548905.05	274641.06	0 58 58.1
17	203	32 50 38.49534	114 28 06.30594	279350.52	671534.59	0 23 22.7
17	406	32 50 38.49534	114 28 06.30594	2547180.01	251126.84	0 58 44.4
19	203	32 48 54.14142	114 30 25.84327	267370.11	661071.42	0 24 37.3
19	406	32 48 54.14142	114 30 25.84327	2535452.87	240380.55	0 57 27.8
20	203	32 45 25.84204	114 31 27.71824	261935.35	640058.43	0 25 08.4
20	406	32 45 25.84204	114 31 27.71824	2530521.19	219243.76	0 56 53.8
32	203	32 43 44.64841	114 36 54.06437	233981.80	630047.29	0 28 03.8
32	406	32 43 44.64841	114 36 54.06437	2502814.34	208568.72	0 53 54.4
34	203	32 43 07.55671	114 43 03.89804	202353.43	626571.91	0 31 23.2
34	406	32 43 07.55671	114 43 03.89804	2471278.22	204340.58	0 50 31.2

* Code 203 = Arizona West Zone
Code 405 = California Zone V

Code 406 = California Zone VI
Code 2701 = Nevada East Zone

Arizona-California Boundary, Final Geographic Positions and Line Coordinates

Station Number	*	Code	Latitude	Longitude	State Plane Coordinates x-feet	State Plane Coordinates y-feet	θ or $\Delta\alpha$ Angle
100	T	203	35 00 06.43500	114 37 55.66800	235814.61	1457113.99	- 0 30 21.7
100		405	35 00 06.43500	114 37 55.66800	3008425.11	563423.29	1 55 11.0
100	T	2701	35 00 06.43500	114 37 55.66800	784863.01	92987.90	0 32 44.3
101	T	203	34 58 37.86770	114 37 48.88110	236300.34	1448154.91	- 0 30 16.7
101		405	34 58 37.86770	114 37 48.88110	3009289.50	554493.52	1 55 14.9
102	T	203	34 57 10.41010	114 37 54.04690	235792.67	1439316.84	- 0 30 18.5
102		405	34 57 10.41010	114 37 54.04690	3009156.10	545642.61	1 55 11.9
103	T	203	34 55 53.78900	114 37 51.86230	235906.09	1431968.95	- 0 30 16.3
103		405	34 55 53.78900	114 37 51.86230	3009597.40	537907.13	1 55 13.2
104	T	203	34 54 32.12610	114 37 46.71240	236262.33	1423309.20	- 0 30 12.3
104		405	34 54 32.12610	114 37 46.71240	3010302.70	529670.57	1 55 16.1
105	T	203	34 53 40.56690	114 38 04.69600	234718.48	1418109.87	- 0 30 22.0
105		405	34 53 40.56690	114 38 04.69600	3008980.30	524411.04	1 55 05.9
106	T	203	34 51 08.51660	114 36 34.88990	242067.53	1402672.86	- 0 29 28.7
106		405	34 51 08.51660	114 36 34.88990	3016975.00	509300.00	1 55 57.1
107	T	203	34 50 08.46970	114 35 09.61790	249123.79	1396542.22	- 0 28 39.3
107		405	34 50 08.46970	114 35 09.61790	3024283.60	503473.73	1 56 45.7
108	T	203	34 48 34.07910	114 34 28.02550	252512.53	1386971.00	- 0 28 14.4
108		405	34 48 34.07910	114 34 28.02550	3028073.70	494055.14	1 57 09.4
109	T	203	34 47 37.98290	114 34 12.25370	253781.35	1381289.14	- 0 28 04.7
109		405	34 47 37.98290	114 34 12.25370	3029581.50	488432.46	1 57 18.4
110	T	203	34 45 13.74100	114 32 02.63510	264478.00	1366620.65	- 0 26 49.1
110		405	34 45 13.74100	114 32 02.63510	3040887.80	474230.38	1 58 32.2
111	T	203	34 44 18.13840	114 31 02.72060	269434.49	1360960.96	- 0 26 14.3
111		405	34 44 18.13840	114 31 02.72060	3046078.70	468785.66	1 59 06.4
200	T	203	34 43 26.68990	114 29 24.59080	277587.37	1355900.62	- 0 25 17.4

* Code 203 = Arizona West Zone
Code 405 = California Zone V

Code 406 = California Zone VI
Code 2701 = Nevada East Zone

200	405	34 43 28.68790	114 29 24.59080	3054437.59	464074.75	2 00 02.3
300	203	34 43 05.36265	114 29 15.20339	278359.66	1353536.62	25 12.3
300	405	34 43 05.36265	114 29 15.20339	3055303.05	461745.41	2 00 07.7
400	203	34 42 59.76271	114 29 12.52097	278573.42	1352966.84	25 10.7
400	405	34 42 59.76271	114 29 12.52097	3055546.68	461185.46	2 00 09.2
500	203	34 42 54.70265	114 29 07.04375	279444.33	1352450.93	25 04.7
500	405	34 42 54.70265	114 29 07.04375	3056438.56	460706.86	2 00 15.2
501	203	34 42 51.36720	114 28 27.35670	282337.61	1352092.75	24 44.9
501	405	34 42 51.36720	114 28 27.35670	3059344.20	460471.29	2 00 35.0
502	203	34 42 36.91500	114 28 08.64100	283889.59	1350620.52	24 34.1
502	405	34 42 36.91500	114 28 08.64100	3060956.90	459066.04	2 00 45.6
503	203	34 42 17.12330	114 28 02.48260	284389.46	1348616.04	24 30.4
503	405	34 42 17.12330	114 28 02.48260	3061541.00	457084.61	2 00 49.1
504	203	34 41 46.33460	114 27 57.18650	284809.50	1345500.37	24 27.1
504	405	34 41 46.33460	114 27 57.18650	3062092.30	453989.67	2 00 52.2
505	203	34 40 50.09540	114 27 25.64280	287403.45	1339796.37	24 08.5
505	405	34 40 50.09540	114 27 25.64280	3064924.80	448400.74	2 01 10.1
506	203	34 40 15.78900	114 27 12.33390	288490.73	1336320.46	24 00.6
506	405	34 40 15.78900	114 27 12.33390	3066157.90	444974.08	2 01 17.7
507	203	34 39 59.17780	114 26 59.69930	289551.07	1334633.72	23 53.1
507	405	34 39 59.17780	114 26 59.69930	3067288.50	443333.76	2 01 25.0
508	203	34 39 38.89460	114 27 18.10970	287987.20	1332594.08	24 03.5
508	405	34 39 38.89460	114 27 18.10970	3065807.30	441229.79	2 01 14.4
509	203	34 39 29.35100	114 27 26.50450	287274.16	1331634.21	24 08.2
509	405	34 39 29.35100	114 27 26.50450	3065140.50	440240.92	2 01 09.6
510	203	34 38 53.02320	114 26 44.65180	290745.09	1327937.41	23 44.0

510	405	34 38 55.02320	114.26.44.65180	3068764.30	436694.28	2 01 33.5
511	203	34 38 08.02660	114.26.23.70230	2924664.24	1323376.58	23 31.7
511	405	34 38 08.02660	114.26.23.70230	3070674.50	432210.42	2 01 45.4
512	203	34 37 35.31020	114.26.20.76880	292686.76	1320067.54	23 29.7
512	405	34 37 35.31020	114.26.20.76880	3071036.60	428913.94	2 01 47.1
513	203	34 37 13.99340	114.26.14.15030	293225.17	1317908.82	23 25.7
513	405	34 37 13.99340	114.26.14.15030	3071665.70	426780.00	2 01 50.9
514	203	34 36 57.47800	114.25.49.70920	295256.59	1316225.40	23 11.7
514	405	34 36 57.47800	114.25.49.70920	3073766.30	425183.99	2 02 04.8
515	203	34 36 26.14430	114.25.24.44710	297347.26	1313043.66	22 57.0
515	405	34 36 26.14430	114.25.24.44210	3075989.40	422093.59	2 02 19.2
516	203	34 35 58.45010	114.25.30.76460	296800.04	1310247.57	23 00.3
516	405	34 35 58.45010	114.25.30.76460	3075560.80	419277.04	2 02 15.6
517	203	34 35 41.93690	114.26.07.17530	293744.89	1308598.73	23 20.8
517	405	34 35 41.93690	114.26.07.17530	3072578.20	417500.72	2 01 54.9
518	203	34 35 30.56170	114.26.01.42510	294217.82	1307445.54	23 17.5
518	405	34 35 30.56170	114.26.01.42510	3073094.40	416368.58	2 01 58.1
519	203	34 34 15.75090	114.24.19.53190	302687.62	1299826.34	22 18.9
519	405	34 34 15.75090	114.24.19.53190	3081882.80	409114.34	2 02 56.2
520	203	34 33 00.37290	114.23.36.65610	306391.64	1292182.23	21 52.7
520	405	34 33 00.37290	114.23.36.65610	3085906.40	401633.89	2 03 21.8
521	203	34 31 52.93660	114.22.52.06560	309911.57	1285342.43	21 28.0
521	405	34 31 52.93660	114.22.52.06560	3089711.90	394949.18	2 03 46.1
522	203	34 30 22.62660	114.22.38.78730	310965.84	1276206.33	21 19.6
522	405	34 30 22.62660	114.22.38.78730	3091151.00	385866.14	2 03 53.4
523	203	34 28 29.81240	114.22.51.82030	309803.99	1264808.83	21 26.0

523	405	34 28 29.81240	114 22 51.82030	3090471.50	174430.24	2 03 46.2
524	203	34 27 00.26740	114 22 39.28160	310797.65	1255750.33	21 18.1
524	405	34 27 00.26740	114 22 39.28160	3091846.70	365422.13	2 03 53.4
525	203	34 26 52.30460	114 21 44.55680	315375.73	1256917.33	20 47.1
525	405	34 26 52.30460	114 21 44.55680	3096455.70	364783.20	2 04 24.6
526	203	34 26 59.51300	114 21 01.51350	318984.83	1255624.44	20 22.8
526	405	34 26 59.51300	114 21 01.51350	3100031.60	365642.03	2 04 49.1
527	203	34 26 57.14150	114 20 00.73400	324073.47	1255354.96	19 48.4
527	405	34 26 57.14150	114 20 00.73400	3105126.90	365587.64	2 05 23.7
528	203	34 26 14.03700	114 19 30.38920	326590.00	1250983.08	19 30.8
528	405	34 26 14.03700	114 19 30.38920	3107825.70	361326.07	2 05 41.0
529	203	34 25 48.23910	114 18 25.95950	331972.17	1248345.07	18 54.2
529	405	34 25 48.23910	114 18 25.95950	3113314.30	358917.73	2 06 17.8
530	203	34 25 26.10610	114 17 49.04530	335052.22	1246090.86	18 33.1
530	405	34 25 26.10610	114 17 49.04530	3116486.70	356795.65	2 06 38.8
531	203	34 24 56.55260	114 17 27.95920	336802.69	1243093.89	18 21.0
531	405	34 24 56.55260	114 17 27.95920	3118362.10	353875.34	2 06 50.8
532	203	34 24 20.70540	114 17 12.09150	338112.89	1239463.14	18 11.7
532	405	34 24 20.70540	114 17 12.09150	3119824.40	350303.23	2 06 59.9
533	203	34 24 10.97290	114 16 37.72480	340987.34	1238464.20	17 52.3
533	405	34 24 10.97290	114 16 37.72480	3122738.40	349426.57	2 07 19.5
534	203	34 24 03.51250	114 15 47.53150	345189.32	1237688.48	17 23.8
534	405	34 24 03.51250	114 15 47.53150	3126969.30	348828.96	2 07 48.1
535	203	34 23 15.82140	114 14 53.23190	349715.63	1232844.86	16 52.8
535	405	34 23 15.82140	114 14 53.23190	3131696.00	344180.88	2 08 19.0
536	203	34 22 27.01050	114 13 56.33400	354460.62	1227887.70	16 20.3

536	405	34 22 27.01050	114 13 56.33460	3136646.600	339478.57	2 08 51.5
537	203	34 21 53.84760	114 13 30.08250	356569.87	1224525.37	16 05.8
537	405	34 21 53.84760	114 13 30.98290	3138895.30	336158.32	2 09 05.9
538	203	34 21 26.84710	114 11 50.66590	364967.39	1221757.78	15 09.0
538	405	34 21 26.84710	114 11 50.66590	3147402.10	333747.81	2 10 03.1
539	203	34 21 19.22150	114 11 05.00960	368791.78	1220970.31	14 43.2
539	405	34 21 19.22150	114 11 05.00960	3151256.30	333122.54	2 10 29.1
540	203	34 19 54.46690	114 10 01.68440	374065.72	1212378.57	14 06.9
540	405	34 19 54.46690	114 10 01.68440	3156888.30	324761.19	2 11 05.2
541	203	34 18 23.08830	114 08 21.19370	382457.75	1203110.16	13 09.7
541	405	34 18 23.08830	114 08 21.19370	3165664.20	315855.40	2 12 02.5
542	203	34 18 13.96660	114 08 12.18620	383209.86	1202185.21	13 04.6
542	405	34 18 13.96660	114 08 12.18620	3166454.70	314963.03	2 12 07.6
543	203	34 18 02.43690	114 08 14.50970	383010.49	1201020.48	13 05.9
543	405	34 18 02.43690	114 08 14.50970	3166304.70	313790.92	2 12 06.3
600	203	34 17 47.92195	114 08 18.43732	382675.39	1199554.50	13 08.0
600	405	34 17 47.92195	114 08 18.43732	3166031.79	312312.11	2 12 04.1
601	203	34 16 51.66670	114 00 05.61550	383746.36	1193861.60	13 00.3
601	405	34 16 51.66670	114 00 05.61550	3167342.20	306669.45	2 12 11.5
602	203	34 16 30.02170	114 08 09.78260	383371.61	1191677.25	13 02.7
602	405	34 16 30.02170	114 08 09.78260	3167060.60	304471.22	2 12 09.0
603	203	34 15 47.61220	114 07 49.25030	385078.64	1187383.84	12 50.9
603	405	34 15 47.61220	114 07 49.25030	3168946.80	300253.67	2 12 20.7
604	203	34 15 29.89270	114 07 56.07790	384497.18	1185594.84	12 54.6
604	405	34 15 29.89270	114 07 56.07790	3168441.40	298441.71	2 12 16.8
605	203	34 15 29.72480	114 08 13.01660	383077.04	1185583.23	13 04.2

605	405	34 15 29.72480	114 08 13.01660	3167023.00	298370.16	2 12 07.1
606	203	34 15 34.43710	114 08 41.77520	380665.02	1186068.84	13 20.4
606	405	34 15 34.43710	114 08 41.77520	3164592.60	298753.48	2 11 50.8
607	203	34 15 28.19700	114 09 11.29010	378185.21	1185447.78	13 37.0
607	405	34 15 28.19700	114 09 11.29010	3162141.20	298028.28	2 11 33.9
608	203	34 15 34.46350	114 09 49.08670	375015.28	1186093.95	13 58.3
608	405	34 15 34.46350	114 09 49.08670	3158946.80	298540.05	2 11 12.4
609	203	34 15 04.39560	114 09 49.81240	374942.02	1183054.82	13 58.5
609	405	34 15 04.39560	114 09 49.81240	3159001.90	295500.50	2 11 12.0
610	203	34 14 55.02230	114 10 08.12840	373400.62	1182113.62	14 08.8
610	405	34 14 55.02230	114 10 08.12840	3157501.60	294495.08	2 11 01.5
611	203	34 14 46.39880	114 10 28.82640	371659.49	1181249.12	14 20.4
611	405	34 14 46.39880	114 10 28.82640	3155798.50	293557.83	2 10 49.7
612	203	34 14 24.76230	114 10 35.88190	371058.03	1179064.50	14 24.2
612	405	34 14 24.76230	114 10 35.88190	3155289.80	291349.75	2 10 45.7
613	203	34 14 05.71080	114 11 02.76440	368792.94	1177148.24	14 39.2
613	405	34 14 05.71080	114 11 02.76440	3153107.60	289339.56	2 10 30.4
614	203	34 13 13.71570	114 12 04.78190	363562.73	1171915.03	15 13.8
614	405	34 13 13.71570	114 12 04.78190	3148102.90	283890.19	2 09 55.0
615	203	34 12 37.46530	114 12 43.84100	360266.18	1168265.42	15 35.5
615	405	34 12 37.46530	114 12 43.84100	3144963.30	280104.64	2 09 32.8
616	203	34 12 06.32830	114 13 31.16580	356277.00	1165136.27	16 01.9
616	405	34 12 06.32830	114 13 31.16580	3141109.70	276809.88	2 09 05.8
617	203	34 11 40.39650	114 13 26.41390	356663.94	1162513.14	15 59.0
617	405	34 11 40.39650	114 13 26.41390	3141607.00	274205.40	2 09 08.5
618	203	34 11 08.38720	114 13 53.73490	354353.71	1159288.29	16 14.2

618	405	34 11 08.38720	114 13 53.73490	3139434.90	270885.88	2 08 52.9
619	203	34 10 55.84070	114 14 28.13730	351457.53	1158033.84	16 33.4
619	405	34 10 55.84070	114 14 28.13730	3136594.20	269510.31	2 08 33.3
620	203	34 10 30.21330	114 15 04.15890	348418.57	1155458.07	16 53.5
620	405	34 10 30.21330	114 15 04.15890	3133666.60	266808.57	2 08 12.8
700	203	34 10 13.41020	114 16 05.32480	343270.87	1153785.24	17 27.7
700	405	34 10 13.41020	114 16 05.32480	3128594.00	264920.00	2 07 37.9
800	203	34 10 20.19675	114 16 28.40019	341335.53	1154481.15	17 40.7
800	405	34 10 20.19675	114 16 28.40019	3126631.00	265533.64	2 07 24.8
900	203	34 10 14.87530	114 17 10.57050	337789.49	1153961.67	18 04.3
900	405	34 10 14.87530	114 17 10.57050	3123110.00	264865.00	2 07 00.7
1000	203	34 10 00.00000	114 17 31.46000	336026.30	1152467.31	18 16.0
1000	405	34 10 00.00000	114 17 31.46000	3121411.41	263297.57	2 06 48.8
1100	203	34 09 34.34031	114 17 53.11631	334192.65	1149883.27	18 27.9
1100	405	34 09 34.34031	114 17 53.11631	3119688.40	260638.44	2 06 36.5
1101	203	34 08 23.92880	114 19 06.19160	328012.19	1142799.46	19 08.4
1101	405	34 08 23.92880	114 19 06.19160	3113812.20	253300.14	2 05 54.8
1102	203	34 08 01.64340	114 20 18.59930	321913.07	1140581.27	19 46.8
1102	405	34 08 01.64340	114 20 18.59930	3107812.00	250826.63	2 05 13.6
1103	203	34 07 53.30370	114 21 15.82540	317097.65	1139766.37	20 20.9
1103	405	34 07 53.30370	114 21 15.82540	3103035.20	249809.35	2 04 40.9
1104	203	34 07 15.38710	114 21 46.01680	314536.70	1135948.78	20 37.5
1104	405	34 07 15.38710	114 21 46.01680	3100637.50	245887.13	2 04 23.7
1105	203	34 06 53.53670	114 22 52.43170	308939.36	1133774.08	21 14.5
1105	405	34 06 53.53670	114 22 52.43170	3095136.80	243478.28	2 03 45.9
1106	203	34 06 36.46020	114 23 23.30030	306333.15	1132064.09	21 31.7

1106		405	34 06 36.46020	114 23 23.30030	3092605.00	241659.90	2 03 28.3
1107	T	203	34 06 42.17970	114 24 02.70680	303023.39	1132663.16	- 21 53.8
1107		405	34 06 42.17970	114 24 02.70680	3089272.90	242118.90	2 03 05.8
1108	T	203	34 06 23.16770	114 24 59.26940	298254.94	1130772.03	- 22 25.4
1108		405	34 06 23.16770	114 24 59.26940	3084588.40	240028.38	2 02 33.6
1109	T	203	34 05 31.54810	114 25 39.72220	294818.77	1125576.55	- 22 47.6
1109		405	34 05 31.54810	114 25 39.72220	3081374.30	234692.62	2 02 10.5
1110	T	203	34 05 11.30460	114 26 00.90920	293023.22	1123542.14	- 22 52.2
1110		405	34 05 11.30460	114 26 00.90920	3079666.10	232584.31	2 01 58.4
1111	T	203	34 03 55.35910	114 26 15.72310	291725.63	1115873.73	- 23 06.8
1111		405	34 03 55.35910	114 26 15.72310	3078692.90	224867.94	2 01 50.0
1112	T	203	34 02 48.20460	114 26 09.92420	292167.96	1109082.32	- 23 02.9
1112		405	34 02 48.20460	114 26 09.92420	3079421.10	218101.14	2 01 53.3
1113	T	203	34 01 21.57940	114 26 13.91260	291773.57	1100328.33	- 23 04.3
1113		405	34 01 21.57940	114 26 13.91260	3079396.00	209338.17	2 01 51.0
1114	T	203	34 01 01.74070	114 26 31.25390	290300.40	1098332.83	- 23 13.8
1114		405	34 01 01.74070	114 26 31.25390	3078008.20	207282.31	2 01 41.1
1115	T	203	34 00 43.30630	114 27 47.15530	283898.35	1096513.28	- 23 56.0
1115		405	34 00 43.30630	114 27 47.15530	3071688.40	205194.55	2 00 57.9
1116	T	203	34 00 20.78990	114 27 59.64860	282830.73	1094244.62	- 24 02.8
1116		405	34 00 20.78990	114 27 59.64860	3070717.30	202882.88	2 00 50.8
1117	T	203	34 00 01.55320	114 27 32.50160	285102.70	1092284.24	- 23 47.4
1117		405	34 00 01.55320	114 27 32.50160	3073069.90	201019.94	2 01 06.2
1118	T	203	33 59 38.09170	114 27 35.77500	284810.68	1089914.63	- 23 49.0
1118		406	33 59 38.09170	114 27 35.77500	2542601.60	669510.86	59 01.2
1119	T	203	33 59 33.84560	114 28 01.52860	282639.25	1089500.53	- 24 03.4

1119	406	33 59 33.84560	114 28 01.52860	2540440.70	669044.55	58 47.1
1120	T 203	33 59 06.84880	114 28 25.43920	280606.70	1086785.80	- 24 16.4
1120	406	33 59 06.84880	114 28 25.43920	2538474.10	666281.54	58 33.9
1121	T 203	33 58 36.43820	114 28 59.56180	277712.77	1083732.27	- 24 35.2
1121	406	33 58 36.43820	114 28 59.56180	2535659.50	663159.09	58 15.2
1122	T 203	33 58 01.53270	114 29 36.46730	276429.06	1080227.45	- 24 56.4
1122	406	33 58 01.53270	114 29 36.46730	2532456.10	659576.07	57 53.9
1123	T 203	33 57 27.58260	114 30 27.58930	270246.57	1076826.16	- 25 23.6
1123	406	33 57 27.58260	114 30 27.58930	2528356.70	656074.93	57 26.8
1124	T 203	33 57 28.24640	114 30 55.02560	267935.98	1076910.42	- 25 39.0
1124	406	33 57 28.24640	114 30 55.02560	2526044.70	656103.47	57 11.7
1125	T 203	33 56 30.35980	114 31 50.30570	262334.93	1071094.26	- 26 09.2
1125	406	33 56 30.35980	114 31 50.30570	2521485.10	650175.64	56 41.3
1126	T 203	33 55 31.99380	114 32 03.09240	262112.56	1065202.77	- 26 15.7
1126	406	33 55 31.99380	114 32 03.09240	2520505.00	644258.74	56 34.3
1127	T 203	33 54 49.64440	114 30 48.17290	268393.96	1060874.47	- 25 33.4
1127	406	33 54 49.64440	114 30 48.17290	2526888.90	640082.99	57 15.5
1128	T 203	33 54 07.26460	114 30 27.16760	270132.66	1056577.59	- 25 21.2
1128	406	33 54 07.26460	114 30 27.16760	2528730.60	635879.20	57 27.0
1129	T 203	33 53 52.63320	114 30 57.38200	267574.41	1055056.89	- 25 37.9
1129	406	33 53 52.63320	114 30 57.38200	2526209.70	634247.29	57 10.4
1130	T 203	33 54 04.80570	114 31 29.17800	264903.93	1056368.04	- 25 55.8
1130	406	33 54 04.80570	114 31 29.17800	2523508.40	635493.74	56 53.0
1131	T 203	33 53 20.19900	114 31 06.60710	266772.72	1051844.88	- 25 42.7
1131	406	33 53 20.19900	114 31 06.60710	2525485.60	631016.89	57 05.4
1132	T 203	33 52 43.00250	114 30 20.51120	270631.08	1048056.23	- 25 16.6

1132	406	33 52 63.00250	114 30 20.51120	2529636.10	627322.24	57 30.7
1133	F 203	33 52 28.65986	114 30 09.69880	271548.50	106659.01	- 25 10.3
1133	406	33 52 28.05980	114 30 09.69880	2530387.80	625827.54	57 36.7
1134	F 203	33 52 00.55760	114 30 09.16610	271556.37	1043756.87	- 25 09.8
1134	406	33 52 00.55760	114 30 09.16610	2530462.60	623040.38	57 36.9
1135	F 203	33 51 65.97930	114 30 28.54050	269911.61	1042297.32	- 25 20.4
1135	406	33 51 65.97930	114 30 28.54050	2528053.50	621547.66	57 26.3
1136	F 203	33 51 29.56820	114 30 53.10560	267827.73	1040653.83	- 25 33.9
1136	406	33 51 29.56820	114 30 53.10560	2526809.80	619856.66	57 12.8
1137	F 203	33 51 36.88050	114 31 31.23500	264616.22	1041216.88	- 25 55.2
1137	406	33 51 36.88050	114 31 31.23500	2523585.70	620338.03	56 51.8
1138	F 203	33 51 06.68510	114 31 65.82220	263366.45	1038376.19	- 26 03.0
1138	406	33 51 06.68510	114 31 65.82220	2522402.70	617468.02	56 43.8
1139	F 203	33 50 08.86650	114 31 22.55390	265299.80	1032508.31	- 25 49.3
1139	406	33 50 08.86650	114 31 22.55390	2524678.70	611650.46	56 56.7
1140	F 203	33 49 27.28370	114 31 09.58920	266365.19	1028303.75	- 25 41.7
1140	406	33 49 27.28370	114 31 09.58920	2525625.60	607472.30	57 03.7
1141	F 203	33 49 08.36900	114 31 18.82400	265551.76	1026395.68	- 25 66.7
1141	406	33 49 08.36900	114 31 18.82400	2524877.70	605565.69	56 58.6
1142	F 203	33 48 55.66660	114 31 37.52360	263981.06	1025103.26	- 25 56.8
1142	406	33 48 55.66660	114 31 37.52360	2523338.60	604215.82	56 48.5
1143	F 203	33 47 67.11890	114 31 06.66320	266702.15	1018175.97	- 25 37.8
1143	406	33 47 67.11890	114 31 06.66320	2526225.60	597396.11	57 06.5
1144	F 203	33 45 36.26700	114 30 16.69950	270821.98	1004918.02	- 25 08.6
1144	406	33 45 36.26700	114 30 16.69950	2530663.20	584201.27	57 34.0
1145	F 203	33 44 06.66770	114 30 41.06670	268513.59	995855.75	- 25 27.4

1145		406	33 64	06.44270	114 30	41.04670	2520573.50	575086.21	57 19.4
1200	F	203	33 43	58.11276	114 30	36.04467	268929.84	995017.66	- 25 19.4
1200		406	33 43	58.11276	114 30	36.04467	2529009.94	574251.40	57 22.2
1201	F	203	33 43	12.21920	114 29	46.88310	273048.26	990361.55	- 24 51.6
1201		406	33 43	12.21920	114 29	46.88310	2533239.40	569687.75	57 49.2
1202	F	203	33 41	56.77570	114 29	44.51980	273192.80	982714.49	- 24 49.5
1202		406	33 41	56.77570	114 29	44.51980	2533567.30	562061.51	57 50.5
1203	F	203	33 41	32.38680	114 30	24.28190	269815.28	980273.78	- 25 11.3
1203		406	33 41	32.38680	114 30	24.28190	2530749.50	559540.33	57 28.6
1204	F	203	33 41	09.55740	114 31	23.43260	264800.03	978003.27	- 25 43.9
1204		406	33 41	09.55740	114 31	23.43260	2525290.40	557149.96	56 56.1
1205	F	203	33 40	36.13440	114 31	48.82970	262628.41	974641.11	- 25 57.6
1205		406	33 40	36.13440	114 31	48.82970	2523200.30	553736.63	56 42.2
1206	F	203	33 40	03.31930	114 31	48.63810	262619.56	971324.14	- 25 57.1
1206		406	33 40	03.31930	114 31	48.63810	2523271.20	550420.50	56 42.3
1207	F	203	33 39	32.60410	114 30	47.92950	267727.72	968181.24	- 25 23.1
1207		406	33 39	32.60410	114 30	47.92950	2528453.30	547401.38	57 15.6
1208	F	203	33 39	21.50580	114 31	30.73590	264100.95	967086.39	- 25 46.7
1208		406	33 39	21.50580	114 31	30.73590	2524854.00	546219.70	56 52.1
1209	F	203	33 39	13.93110	114 31	51.49340	262340.51	966333.97	- 25 58.1
1209		406	33 39	13.93110	114 31	51.49340	2523112.20	545429.20	56 40.7
1210	F	203	33 39	02.22300	114 31	58.58370	261752.18	965155.09	- 26 01.9
1210		406	33 39	02.22300	114 31	58.58370	2522532.40	544232.07	56 36.8
1211	F	203	33 38	40.72130	114 31	45.05480	262859.49	962973.13	- 25 54.2
1211		406	33 38	40.72130	114 31	45.05480	2523711.80	542077.91	56 44.2
1212	F	203	33 38	17.21560	114 31	24.02280	264619.82	960583.92	- 25 42.3

1212		406	33 38 17.21560	114 31 24.02280	2525529.00	539731.76		56 55.8
1213	T	203	33 37 50.54480	114 31 31.40640	263975.34	957892.81	-	25 46.1
1213		406	33 37 50.54480	114 31 31.40640	2524969.40	537026.02		56 51.7
1214	T	203	33 37 45.61930	114 31 47.02430	262650.99	957404.89	-	25 54.6
1214		406	33 37 45.61930	114 31 47.02430	2524637.20	536506.41		56 43.1
1215	T	203	33 37 30.39850	114 31 49.89110	262396.98	955868.26	-	25 56.1
1215		406	33 37 30.39850	114 31 49.89110	2523620.20	534964.18		56 41.6
1216	T	203	33 37 12.28410	114 31 40.33620	263191.19	954031.24	-	25 50.6
1216		406	33 37 12.28410	114 31 40.33620	2524258.30	533146.83		56 46.8
1217	T	203	33 36 47.09550	114 31 16.95620	265149.38	951470.48	-	25 37.3
1217		406	33 36 47.09550	114 31 16.95620	2526277.40	530633.94		56 59.7
1218	T	203	33 36 37.79920	114 31 20.38290	264852.56	950533.01	-	25 39.1
1218		406	33 36 37.79920	114 31 20.38290	2526003.20	529689.65		56 57.8
1300	T	203	33 36 17.31038	114 31 48.52488	262456.82	948479.94	-	25 54.5
1300		406	33 36 17.31038	114 31 48.52488	2523657.56	527579.67		56 42.3
1301	T	203	33 35 45.45536	114 32 09.98750	260617.03	945273.90	-	26 06.0
1301		406	33 35 45.45536	114 32 09.98750	2521895.40	524330.44		56 30.5
1302	T	203	33 35 14.37820	114 32 21.72730	259600.02	942140.32	-	26 12.1
1302		406	33 35 14.37820	114 32 21.72730	2520954.00	521173.44		56 24.1
1303	T	203	33 34 47.93800	114 32 21.71360	259580.81	939467.85	-	26 13.8
1303		406	33 34 47.93800	114 32 21.71360	2520999.00	518501.38		56 24.1
1304	T	203	33 34 14.81510	114 32 09.50750	260588.11	936112.09	-	26 04.7
1304		406	33 34 14.81510	114 32 09.50750	2522086.60	515170.92		56 30.8
1305	T	203	33 33 43.98420	114 31 52.28060	262022.27	932984.83	-	25 54.8
1305		406	33 33 43.98420	114 31 52.28060	2523595.40	512079.13		56 40.3
1306	T	203	33 33 12.45770	114 31 24.98460	264308.35	929780.96	-	25 39.4

1306	406	33 33 12.65770	116 31 26.98460	252957.70	508931.21	56 55.3
1307	203	33 33 02.27600	116 31 62.69710	262801.66	928775.10	- 25 49.0
1307	406	33 33 07.37600	116 31 62.69710	2526675.70	507887.55	56 45.5
1308	203	33 32 52.97270	116 31 50.66870	262319.86	927827.84	- 25 53.3
1308	406	33 32 52.97290	116 31 50.66870	2523816.80	506926.15	56 41.1
1309	203	33 32 07.28380	116 33 10.03990	295366.36	923261.12	- 26 36.7
1309	406	33 32 07.28380	116 33 10.03990	2517175.20	902198.74	55 57.5
1310	203	33 31 49.24730	116 33 31.24160	293415.10	921452.36	- 26 48.5
1310	406	33 31 49.24730	116 33 31.24160	2515368.00	500346.12	55 45.6
1311	203	33 31 25.59060	116 33 35.43360	253150.02	919063.95	- 26 50.4
1311	406	33 31 25.59060	116 33 35.43360	2515060.60	697949.74	55 43.4
1312	203	33 31 07.60840	116 33 35.45120	253130.43	916745.11	- 26 50.2
1312	406	33 31 07.60840	116 33 35.45120	2515026.50	695631.19	55 43.3
1313	203	33 30 50.22270	116 33 67.33920	252147.94	915496.79	- 26 56.4
1313	406	33 30 50.22270	116 33 67.33920	2514146.30	694359.69	55 37.0
1314	203	33 30 21.66290	116 36 50.67410	266762.24	912652.60	- 27 31.0
1314	406	33 30 21.66290	116 36 50.67410	2508828.76	691387.14	55 02.2
1315	203	33 29 40.60210	116 35 38.10490	262712.06	908524.69	- 27 56.7
1315	406	33 29 40.60210	116 35 38.10490	2506879.00	687163.38	54 36.2
1316	203	33 28 40.36660	116 36 15.49690	249461.44	902472.51	- 28 16.8
1316	406	33 28 40.36660	116 36 15.49690	2501776.80	681035.21	54 15.4
1317	203	33 28 13.08310	116 36 42.01650	232227.03	899824.29	- 28 30.9
1317	406	33 28 13.08310	116 36 42.01650	2609606.70	678336.27	54 01.0
1318	203	33 27 56.62060	116 36 53.21910	236263.08	898057.06	- 28 36.8
1318	406	33 27 56.62060	116 36 53.21910	2608843.50	676546.50	53 54.9
1319	203	33 26 54.62872	116 37 17.95820	236116.85	891828.96	- 28 49.7

1319	406	33 26 54.62830	114 37 17.95829	2496685.50	470267.00	53 41.3
1320	203	33 25 15.85180	114 38 10.92770	229541.60	881883.18	29 17.6
1320	406	33 25 15.85180	114 38 10.92770	2492352.30	460214.93	53 12.2
1400	203	33 24 46.54852	114 39 24.79576	223254.41	878975.36	29 57.9
1400	406	33 24 46.54852	114 39 24.79576	2486137.29	457157.28	52 31.6
1401	203	33 25 02.45130	114 40 12.60470	219215.90	880618.30	30 24.5
1401	406	33 25 02.45130	114 40 12.60470	2482060.80	458702.75	52 05.3
1402	203	33 25 04.30910	114 40 35.65590	217263.63	880823.42	30 37.2
1402	406	33 25 04.30910	114 40 35.65590	2480104.30	458860.96	51 52.7
1403	203	33 25 04.46000	114 41 06.20210	214674.52	880861.85	30 54.0
1403	406	33 25 04.46000	114 41 06.20210	2477515.20	458837.23	51 35.9
1404	203	33 24 59.84790	114 41 28.68240	212764.76	880412.87	31 06.3
1404	406	33 24 59.84790	114 41 28.68240	2475616.90	458342.60	51 23.5
1405	203	33 24 34.24500	114 41 57.35940	210310.31	877847.16	31 21.8
1405	406	33 24 34.24500	114 41 57.35940	2473224.90	455718.92	51 07.8
1406	203	33 24 26.72130	114 42 28.55940	207658.40	877110.95	31 38.9
1406	406	33 24 26.72130	114 42 28.55940	2470591.60	454919.36	50 50.6
1407	203	33 24 29.51590	114 41 13.13490	203882.13	877428.43	32 03.4
1407	406	33 24 29.51590	114 41 13.13490	2466809.10	455146.11	50 26.1
1408	203	33 24 18.01410	114 41 28.74080	202548.25	876278.25	32 11.9
1408	406	33 24 18.01410	114 41 28.74080	2465503.30	453964.35	50 17.5
1409	203	33 23 44.02880	114 43 09.31820	204162.86	872827.83	32 00.7
1409	406	33 23 44.02880	114 43 09.31820	2467200.10	450553.95	50 28.2
1410	203	33 23 02.93000	114 42 27.47250	207672.61	868640.96	31 37.1
1410	406	33 23 02.93000	114 42 27.47250	2470809.00	446452.78	50 51.2
1411	203	33 21 39.22520	114 41 53.39260	210485.49	860154.15	31 17.2

1411		406	33 21 39.22520	114 41 53.39260	2473824.40	438036.53	51 09.9
1412	T	203	33 20 18.23090	114 41 58.60570	209968.72	851971.81	31 18.9
1412		406	33 20 18.23090	114 41 58.60570	2473504.00	429844.78	51 07.1
1413	T	203	33 19 09.98790	114 42 38.72030	206501.76	845105.46	31 40.0
1413		406	33 19 09.98790	114 42 38.72030	2470202.90	422897.80	50 45.0
1414	T	203	33 18 53.55310	114 43 06.13390	204160.00	843465.86	31 54.9
1414		406	33 18 53.55310	114 43 06.13390	2467901.30	421202.67	50 30.0
1415	T	203	33 18 34.77410	114 43 25.01460	202539.97	841582.73	32 05.0
1415		406	33 18 34.77410	114 43 25.01460	2466327.00	419281.41	50 19.6
1416	T	203	33 18 11.35160	114 43 49.62980	200428.62	839234.91	32 18.1
1416		406	33 18 11.35160	114 43 49.62980	2464272.70	416883.85	50 06.1
1417	T	203	33 17 10.98100	114 43 11.83230	203580.03	833103.10	31 56.5
1417		406	33 17 10.98100	114 43 11.83230	2467569.90	410829.81	50 26.8
1418	T	203	33 16 37.81720	114 41 10.36920	213861.29	829657.01	30 49.4
1418		406	33 16 37.81720	114 41 10.36920	2477930.00	407631.32	51 33.6
1419	T	203	33 15 27.35510	114 43 18.09850	218236.29	822495.80	30 19.8
1419		406	33 15 27.35510	114 43 18.09850	2482475.00	400577.50	52 02.3
1420	T	203	33 14 48.41350	114 41 18.14600	213101.86	818605.30	30 52.2
1420		406	33 14 48.41350	114 41 18.14600	2477435.60	396565.41	51 29.3
1421	T	203	33 13 36.96550	114 40 27.02600	217379.51	811345.27	30 23.2
1421		406	33 13 36.96550	114 40 27.02600	2481885.60	389410.42	51 57.4
1422	T	203	33 13 18.16830	114 40 20.37700	217927.58	809440.43	30 19.3
1422		406	33 13 18.16830	114 40 20.37700	2482479.10	387519.38	52 01.1
1423		203	33 12 31.03300	114 40 34.16390	216714.13	804686.77	30 26.2
1423		406	33 12 31.03300	114 40 34.16390	2481379.90	382738.36	51 53.5
1424		203	33 12 15.42350	114 40 40.08810	216196.77	803113.57	30 29.2

1424		406	33 12 15.42350	114 40 40.08810	2480900.40	381153.32		51 50.2
1425	T	203	33 11 47.08670	114 40 35.34840	216574.15	800245.98	-	30 26.3
1425		406	33 11 47.08670	114 40 35.34840	2481346.30	378295.78		51 52.8
1426	T	203	33 11 05.29010	114 40 29.20270	217059.08	796016.95	-	30 22.3
1426		406	33 11 05.29010	114 40 29.20270	2481932.30	374079.87		51 56.2
1427	T	203	33 10 06.44600	114 40 43.63130	215780.02	790080.41	-	30 29.4
1427		406	33 10 06.44600	114 40 43.63130	2480795.80	368114.81		51 48.3
1428	T	203	33 09 19.35060	114 40 52.66020	214970.18	785327.29	-	30 33.7
1428		406	33 09 19.35060	114 40 52.66020	2480100.00	363344.00		51 43.3
1429	T	203	33 07 54.81100	114 41 43.68400	210555.09	776821.73	-	31 00.5
1429		406	33 07 54.81100	114 41 43.68400	2475890.00	354735.79		51 15.3
1430	T	203	33 05 41.42570	114 42 25.70530	206858.48	763372.96	-	31 21.6
1430		406	33 05 41.42570	114 42 25.70530	2472516.40	341203.38		50 52.2
1431	T	203	33 05 12.96750	114 42 11.25380	208061.85	760485.51	-	31 13.3
1431		406	33 05 12.96750	114 42 11.25380	2473788.40	338345.73		51 00.1
1432	T	203	33 04 56.17960	114 41 17.19140	212646.59	758747.32	-	30 43.5
1432		406	33 04 56.17960	114 41 17.19140	2478413.10	336717.79		51 29.8
1433	T	203	33 03 56.78680	114 40 53.23920	214631.41	752726.41	-	30 29.6
1433		406	33 03 56.78680	114 40 53.23920	2480541.20	330746.45		51 43.0
1434	T	203	33 03 18.62730	114 40 23.92360	217042.42	748847.66	-	30 13.1
1434		406	33 03 18.62730	114 40 23.92360	2483094.10	326927.87		51 59.1
1435	T	203	33 02 25.66830	114 40 17.61740	217582.22	743490.47	-	30 09.0
1435		406	33 02 25.66830	114 40 17.61740	2483711.80	321584.24		52 02.6
1436	T	203	33 01 56.96320	114 39 36.19080	221083.74	740558.57	-	29 46.0
1436		406	33 01 56.96320	114 39 36.19080	2487282.20	318737.05		52 25.3
1437	T	203	33 02 56.05980	114 38 42.83420	225677.25	746492.31	-	29 17.7

1437		406	33 07 56.05980	114 38 42.83420	2491732.30	324778.60	52 54.7
1438	F	203	33 02 37.94620	114 38 14.80700	228047.49	746641.37	29 02.2
1438		406	33 02 37.94620	114 38 14.80700	2494146.00	322984.95	53 10.1
1439	F	203	33 02 02.13060	114 37 46.75010	230405.56	741001.49	- 28 46.4
1439		406	33 02 02.13060	114 37 46.75010	2496590.30	319402.66	53 25.5
1440	F	203	33 01 38.99950	114 37 05.88690	233865.34	738634.75	- 28 23.8
1440		406	33 01 38.99950	114 37 05.88690	2500105.50	317119.43	53 47.9
1441	F	203	33 01 31.34830	114 35 56.27420	239785.05	737813.05	- 27 45.8
1441		406	33 01 31.34830	114 35 56.27420	2506043.70	316439.55	54 26.2
1442	F	203	33 01 49.20840	114 34 55.44780	244979.11	739576.71	- 27 12.8
1442		406	33 01 49.20840	114 34 55.44780	2511193.10	318326.80	54 59.6
1443	F	203	33 02 11.46000	114 34 21.61510	247877.18	741802.93	- 26 54.7
1443		406	33 02 11.46000	114 34 21.61510	2514037.00	320621.59	55 18.2
1444	F	203	33 02 03.10200	114 33 12.90610	253720.68	740912.95	- 26 17.1
1444		406	33 02 03.10200	114 33 12.90610	2519899.30	319871.61	55 56.0
1445	F	203	33 01 49.45550	114 31 15.92280	263669.28	739459.14	- 25 13.2
1445		406	33 01 49.45550	114 31 15.92280	2629880.10	318656.20	57 00.2
1446	F	203	33 01 17.53990	114 30 27.39190	267774.95	735799.24	- 24 46.3
1446		406	33 01 17.53990	114 30 27.39190	2634072.00	315095.63	57 26.9
1447	F	203	32 59 27.40010	114 29 46.19200	271204.04	724642.79	- 24 22.7
1447		406	32 59 27.40010	114 29 46.19200	2537766.80	304024.62	57 49.5
1448	F	203	32 58 15.57160	114 29 29.64070	272565.53	717777.72	- 24 12.9
1448		406	32 58 15.57160	114 29 29.64070	2539292.00	297194.22	57 58.6
1449	F	203	32 58 16.76060	114 29 02.11500	274911.42	717881.45	- 23 57.9
1449		406	32 58 16.76060	114 29 02.11500	2541634.70	297354.01	58 13.8
1450	F	203	32 58 28.41780	114 28 17.18690	278747.11	719033.13	- 24 33.6

1450	406	32 58 28.41780	114 28 17.18690	2545441.70	298597.03	58 38.5
1451	203	32 57 51.00240	114 27 58.27500	280332.51	715240.75	23 22.9
1451	406	32 57 51.00240	114 27 58.27500	25471117.30	294843.68	58 48.9
1452	203	32 56 53.89230	114 28 15.20880	278850.23	709478.78	23 31.5
1452	406	32 56 53.89230	114 28 15.20880	2545773.20	289048.01	58 39.5
1453	203	32 56 06.43700	114 28 48.89930	275946.00	704702.50	23 49.4
1453	406	32 56 06.43700	114 28 48.89930	2542984.00	284203.75	58 21.0
1454	203	32 55 24.92470	114 28 33.71210	277211.49	700498.15	23 40.7
1454	406	32 55 24.92470	114 28 33.71210	2544349.60	280030.88	58 29.4
1500	203	32 54 22.35270	114 27 43.15340	281478.42	694144.98	23 12.5
1500	406	32 54 22.35270	114 27 43.15340	2548767.10	273781.55	58 57.2
1600	203	32 52 58.82283	114 27 50.24197	280816.94	685707.23	23 15.5
1600	406	32 52 58.82283	114 27 50.24197	2548307.43	265330.45	58 53.3
1700	203	32 50 39.87937	114 28 06.22867	279358.06	671674.42	23 22.7
1700	406	32 50 39.87937	114 28 06.22867	2547184.20	251266.81	58 44.5
1800	203	32 49 24.14592	114 29 36.00955	271644.46	664073.58	24 10.6
1800	406	32 49 24.14592	114 29 36.00955	2539654.32	243483.90	57 55.1
1900	203	32 48 58.07760	114 30 36.22870	266486.64	661475.58	24 42.9
1900	406	32 48 58.07760	114 30 36.22870	2534560.00	240763.50	57 22.1
1901	203	32 47 55.34660	114 31 28.16970	262007.38	655167.99	25 10.4
1901	406	32 47 55.34660	114 31 28.16970	2530232.60	234350.79	56 53.5
1902	203	32 47 32.07770	114 31 49.15930	260198.35	652829.54	25 21.5
1902	406	32 47 32.07770	114 31 49.15930	2528479.90	231969.83	56 42.0
1903	203	32 46 56.00810	114 31 51.27750	259990.62	649185.59	25 22.2
1903	406	32 46 56.00810	114 31 51.27750	2528359.20	228321.94	56 40.8
1904	203	32 46 11.39480	114 31 45.28700	260468.87	644673.10	25 18.5

1904	406	32 46	11.39480	114 31	45.28700	2528945.00	223822.15	56 44.1
2000	203	32 45	25.78660	114 31	33.33340	261455.78	640056.34	25 11.5
2000	406	32 45	25.78660	114 31	33.33340	2530041.79	219230.23	56 50.7
2100	203	32 45	25.34781	114 32	17.55283	257679.12	640039.89	25 35.4
2100	406	32 45	25.34781	114 32	17.55283	2526266.58	219123.67	56 26.4
2200	203	32 44	59.36240	114 32	17.55954	257658.99	637413.75	25 35.1
2200	406	32 44	59.36240	114 32	17.55954	2526309.12	216497.79	56 26.4
2300	203	32 44	58.63083	114 33	49.33745	249819.94	637399.10	26 24.8
2300	406	32 44	58.63083	114 33	49.33745	2518472.62	216296.13	55 35.9
2400	203	32 44	32.51389	114 33	49.32668	249800.58	634759.66	26 24.4
2400	406	32 44	32.51389	114 33	49.32668	2518516.23	213656.98	55 35.9
2500	203	32 44	32.49666	114 34	51.19491	244516.13	634798.94	26 57.9
2500	406	32 44	32.49666	114 34	51.19491	2513232.34	213570.21	55 01.9
2600	203	32 44	06.37650	114 34	51.17812	244496.86	632159.17	26 57.6
2600	406	32 44	06.37650	114 34	51.17812	2513276.04	210930.72	55 02.0
2700	203	32 44	04.09639	114 36	51.47272	234219.23	632010.94	28 02.6
2700	406	32 44	04.09639	114 36	51.47272	2503004.89	210537.46	53 55.8
2800	203	32 43	57.11177	114 36	50.73949	234276.11	631304.55	28 02.1
2800	406	32 43	57.11177	114 36	50.73949	2503078.59	209832.63	53 56.3
2900	203	32 43	57.11158	114 36	51.06909	234247.96	631304.76	28 02.3
2900	406	32 43	57.11158	114 36	51.06909	2503050.43	209832.17	53 56.1
3000	203	32 43	47.74195	114 36	53.13628	234063.64	630359.28	28 03.3
3000	406	32 43	47.74195	114 36	53.13628	2502888.71	208882.58	53 54.9
3100	203	32 43	47.74164	114 36	54.06545	233984.26	630359.90	28 03.8
3100	406	32 43	47.74164	114 36	54.06545	2502809.34	208881.29	53 54.4
3200	203	32 43	42.43660	114 36	54.21480	233967.12	629823.86	28 03.8

3200	406	32 43 62.43660	114 36 54.21480	2502805.00	208345.00	53 54.3
3300	203	32 43 45.37941	114 37 25.55221	231292.48	630143.24	28 20.8
3300	406	32 43 45.37941	114 37 25.55221	2500123.51	208600.51	53 37.1
3400	203	32 43 07.28790	114 43 07.35030	202058.22	626547.44	31 25.1
3400	406	32 43 07.28790	114 43 07.35030	2470983.68	204309.08	50 29.3

DESCRIPTORS OF 34 BOUNDARY POINTS
DETERMINED BY GEODETIC METHODS

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

DESCRIPTION OF TRAVERSE STATION

NAME OF STATION: BDRY. PT. NO. 4 CALIF-ARIZ

CHIEF OF PARTY: L. G. Burdine

YEAR: 1964

STATE: Arizona
California

COUNTY: Mohave
San Bernardino

Description, including sketch of object:

The station is $\frac{1}{4}$ mile west of Topock, Arizona on the concrete center support of the U.S. Highway 66 bridge over the Colorado River. It is Point No. 4 of the interstate compact defining the boundary between the states of Arizona and California.

The mark is a standard triangulation disk stamped POINT NO. 4 cemented in a drill hole in the concrete of the center pier. It is midway between the east and west edges of the pier and under the center of the roadway overhead. This is not the exact center of the steelwork of the bridge because the steel is not centered on the concrete pier.

A traverse connection was made through an eccentric point to triangulation station CENTER which is on the northeast corner of the center pier. The distance is 5.082 m. (16.67 ft.).

The geodetic azimuth from station CENTER to BDRY. PT. NO. 4 is $349^{\circ} 10' 28''$.

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

DESCRIPTION OF TRIANGULATION STATION

NAME OF STATION: EL PASO = BDRY. PT. NO. 5
CALIF-ARIZ

STATE: Arizona
California

COUNTY: Mohave
San Bernardino

CHIEF OF PARTY: L. G. Burdine

YEAR: 1964

DESCRIBED BY: J.E.F.

Note* Height of telescope above station mark 1.41 meters, † Height of light above station mark meters.

Surface-station mark, underground-station mark	Distances and directions to azimuth mark, reference marks and prominent objects which can be seen from the ground at the station			
Object	Bearing	Distance		Direction‡
		Feet	Meters	
ARIZ 97 CENTER				$0^{\circ} 00' 00.0''$ $229 08 03.5$

Detailed description:

The station is near the center of a steel bridge which supports the El Paso Natural Gas Company and the Pacific Gas and Electric Company pipes crossing the Colorado River at Topock, Arizona.

To reach the station from the post office in Topock, Arizona, go west on U.S. Highway 66, crossing the Colorado River Bridge for 0.5 mile to a side road sharp left, just before reaching the Santa Fe Railroad Underpass. Turn sharp left, double back and go southeast on a paved road for 0.2 mile to a side road left. Turn left and go southerly on a gravel road for 0.05 mile to a wire link gate. Pass through the gate and go southeasterly on the gravel road for 0.25 mile to the southwest end of the steel bridge which supports two large gas pipes. Pass through a wire link gate and pack along catwalk to the center of the bridge and the station.

The station is marked by a center punch hole surrounded by a chiseled triangle that is approximately $1\frac{1}{2}$ inches on a side. The mark is equal distance from both ends of the bridge and near the center of the catwalk. It is stamped ELPASO 1964.

Note: Reference marks or an azimuth mark were not set for this station.

Obtain keys to locked wire link gates at the compressor station on a hill about $\frac{1}{2}$ mile west of Topock, Arizona.

Note: This station is also POINT NO 5 of the interstate compact defining the boundary between the states of Arizona and California.

* Refer to notes in manual of triangulation and state publications of triangulation.
† To nearest meter only, when no strobometric leveling is being done.

‡ Direction angle measured clockwise, referred to initial station.

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

DESCRIPTION OF TRIANGULATION STATION

NAME OF STATION: WATHEN = BDRY. PT. NO. 8 STATE: Arizona- COUNTY: Yuma
CALIF-ARIZ California San Bernardino

CHIEF OF PARTY: L. G. Burdine YEAR: 1964 DESCRIBED BY: G. D. Banks

Note*	Height of telescope above station mark 3.20 meters, † Height of light above station mark meters.				
desc. none	Surface-station mark, underground-station mark	Distances and directions to azimuth mark, reference marks and prominent objects which can be seen from the ground at the station			
	Object	Bearing	Distance		Direction‡
Feet			Meters		
11b	BLUFF				0° 00' 00.0"
	R.M. 1	SSW	53.73	16.377	112 19 37
11b	R.M. 2	WNW	60.66	18.489	208 34 58
	R.M. 1 to R.M. 2		85.28	25.994	

Detailed description:

The station is fixed point No. 8 of the Arizona-California boundary. It is located at the center of the earth fill of the Headgate Rock Dam which is airline, about 2 miles north-northeast of Parker, Arizona.

To reach the station from the intersection of Riverside Drive and California Avenue in Parker, go east on Riverside Drive for 0.9 mile to a fork and sign "DEAD END ROAD". Take the left fork and go north on a paved road for 0.55 mile to a locked cable across the road. (Key to the lock can be obtained from the caretakers residence which is the house to the north of the gate.) Continue north on the paved road, crossing the concrete spillway, for 0.3 mile to the north end of the spillway. Turn right and go northeast on a track road for 0.3 mile to the center of the Headgate Rock Dam and the station.

Station mark is a bronze plate, stamped 21+00JS 11S BM ELV 389.91 CRIR, set in the top of an 8 by 14 inch concrete post flush with the ground surface. It is 25 feet east of the center of the dam and 3.8 feet west of a concrete monument which is about 8 feet high and has the letters WATHEN DAM USIS 1941 on the west side, CALIFORNIA on the north side and ARIZONA on the south side.

Reference mark 1 is a standard disk, stamped WATHEN NO 1 1964, set in the top of a round concrete post, 10 inches in diameter and projects about 2 inches above the ground surface. It is 18 feet west of the center of the dam and about the same elevation as the station.

Reference mark 2 is a standard disk, stamped WATHEN NO 2 1964, set in the top of a round concrete post, 10 inches in diameter and projects about 3 inches above the ground surface. It is 15 feet west of the center of the dam and about the same elevation as the station.

* Refers to notes on methods of triangulation and page publications of triangulation.
† To nearest meter only, when no triangulation leveling is being done.

‡ Direction angle measured clockwise, referred to initial station.

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

DESCRIPTION OF TRIANGULATION INTERSECTION STATION

NAME OF STATION: BDRY. PT. NO. 9 CALIF-ARIZ

CHIEF OF PARTY: L. G. Burdine YEAR: 1964 STATE: Arizona
California COUNTY: Yuma
San Bernardino

Description, including sketch of object:

Boundary Pt. No. 9 lies on the centerline of the river approximately 3,625 feet westerly from Point No. 8.

BDRY. PT. NO. 9 is 57.526 meters or 188.73 feet in azimuth $338^{\circ} 55' 04.3''$ from triangulation station FLAT.

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

DESCRIPTION OF TRIANGULATION INTERSECTION STATION

NAME OF STATION: BDRY. PT. NO. 10 CALIF-ARIZ

CHIEF OF PARTY: L. G. Burdine YEAR: 1964 STATE: Arizona
California COUNTY: Yuma
San Bernardino

Description, including sketch of object:

Boundary Pt. No. 10 lies in the center of the Colorado River at a point where the parallel of $34^{\circ} 10'$ north latitude intersects said centerline.

BDRY. PT. NO. 10 is 99.697 meters or 327.09 feet in azimuth $285^{\circ} 07' 42.6''$ from triangulation station VIEW.

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

DESCRIPTION OF TRAVERSE STATION

NAME OF STATION: BDRY. PT. NO. 11 CALIF-ARIZ

CHIEF OF PARTY: L. G. Burdine YEAR: 1964 STATE: Arizona
California COUNTY: Yuma
San Bernardino

Description, including sketch of object:

The station is located about 1 mile north of Parker, Arizona in the center of the auto bridge over the Colorado River. This is Point 11 of the interstate compact defining the boundary between the states of Arizona and California.

The station is marked by a center punch hole surrounded by a chiseled triangle that is approximately $1\frac{1}{2}$ inches on a side. The mark is equal distance from both ends of the bridge and in the center line of Spur 95. It is stamped POINT 11 1964 on the metal expansion beam of the bridge.

A traverse connection was made to SPAN RM 1 which is southeast and near the center of the walkway of the bridge. The distance being 8.474 meters, 27.80 feet.

The geodetic azimuth from station SPAN RM 1 to BDRY. PT. NO. 11 is $103^{\circ} 18' 31''$.

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

DESCRIPTION OF TRIANGULATION STATION

NAME OF STATION: BDRY. PT. NO. 12 CALIF-ARIZ STATE: Ariz.-Calif. COUNTY: Yuma-Riverside
 CHIEF OF PARTY: L. G. Burdine YEAR: 1964 DESCRIBED BY: J. E. Sutton

Note*	Height of telescope above station mark 1.65 meters, † Height of light above station mark meters				
1b 7a	Surface-station mark, underground-station mark	Distances and directions to azimuth mark, reference marks and prominent objects which can be seen from the ground at the station			
			Distance		
	Object	Bearing	Feet	Meters	Direction‡
	SPUR 1935 BDRY. REF. PT. NO. 12	SW			00° 00' 00.00" 295 17 30.81

Detailed description:

The station is located at the center of the earth fill section of the Palo Verde Diversion Dam, which is about 10 miles northeast of Blythe, 0.25 mile east of U.S. Highway 95 and 0.05 mile northeast of the flood gates of the Palo Verde Diversion Dam.

To reach the station from the junction of U.S. Highways 60, 70 and 95, which is at the east edge of Blythe, go north on U.S. Highway 95 for 6.3 miles to where the highway turns east. Continue on U.S. Highway 95 east and northeast for 4.2 miles to a side road right. Turn right, east on gravel road for 0.25 mile to a gate and small building on the left. Pass through the gate and turn left across the concrete dam for 0.05 mile to the station in the center of the road as described.

The station mark is a standard disk set in the top of a 12-inch round concrete monument. It is set flush with the ground and is stamped POINT NO. 12A 1964. It is in the center of the earth dam.

* Refers to notes in manuals of triangulation and state publications of triangulation.

‡ Direction-angle measured clockwise, referred to initial station.

† To nearest tenth used, when no stadiometric leveling is being done.

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

DESCRIPTION OF TRAVERSE STATION

NAME OF STATION: BDRY. PT. NO. 13 CALIF-ARIZ
 CHIEF OF PARTY: L. G. Burdine YEAR: 1964 STATE: Arizona COUNTY: Yuma
 California Riverside

Description, including sketch of object:

The station is at the measured center of the U.S. Highway 60-70 bridge spanning the Colorado River 3 miles east of Blythe, California.

The station is marked by a standard station mark disk, stamped POINT NO 13 1964, cemented in a drill hole in the center of the concrete roadbed at the center of the center span of the bridge.

A traverse connection was made to triangulation station EHREN, the distance being 4.607 meters or 15.11 feet.

The geodetic azimuth from station EHREN to BDRY. PT. NO. 13 is 30° 54' 01".

DESCRIPTION OF TRAVERSE STATION

NAME OF STATION: BDRY. PT. NO. 14 CALIF-ARIZ

CHIEF OF PARTY: L. G. Burdine YEAR: 1964 STATE: Arizona
California COUNTY: Yuma
Imperial*Description, including sketch of object:*

This station was established as fixed point number 14. It is 8 miles south of Ripley, and at the determined center of the CIBOLA TOLL BRIDGE.

The station is a punch hole in the top of a 60 penny nail in a wooden plank in the bridge.

A traverse connection was made to triangulation CIBOLA, the distance being 25.649 meters—84.15 feet, south.

The geodetic azimuth from station CIBOLA to BDRY. PT. NO. 14 is $177^{\circ} 48' 52''$.

DESCRIPTION OF TRIANGULATION INTERSECTION STATION

NAME OF STATION: BDRY. PT. NO. 15 CALIF-ARIZ

CHIEF OF PARTY: L. G. Burdine YEAR: 1964 STATE: Arizona
California COUNTY: Yuma
Imperial*Description, including sketch of object:*

Boundary Pt. No. 15 lies on the centerline of the Colorado River approximately 8400 feet northward of the center of the overflow section of Imperial Dam.

BDRY. PT. NO. 15 is 265.335 meters or 870.52 feet in azimuth $10^{\circ} 06' 03.4''$ from triangulation station SQUAW.

DESCRIPTION OF TRAVERSE STATION

NAME OF STATION: BDRY. PT. NO. 16 CALIF-ARIZ

CHIEF OF PARTY: L. G. Burdine YEAR: 1964 STATE: Arizona
California COUNTY: Yuma
Imperial*Description, including sketch of object:*

This station was established as fixed point number 16. It is about $14\frac{1}{2}$ miles northeast of Yuma, $4\frac{1}{2}$ miles north of Mitty Lake, 2 miles northwest of the Yuma Proving Grounds Headquarters and at the determined center of the crest of the concrete weir of Imperial Dam.

The center of the weir was determined with a 300 foot steel tape.

The station is a standard station mark disk, stamped POINT NO 16 1964, cemented in a drill hole in the determined center of the crest of the concrete weir of Imperial Dam.

A traverse connection was made to triangulation station IMPERIAL, the distance being 227.998 meters, east-northeast.

The traverse connection was made with an Electrotape.

The geodetic azimuth from station IMPERIAL to BDRY. PT. NO. 16 is $95^{\circ} 12' 47.0''$.

Reference mark number one is a standard disk stamped CAL ARIZ PT NO 21 NO 1 BLM 1964 cemented in the top of a 12-inch cylindrical concrete monument projecting 8 inches above ground. It is 9 feet west of the top of the west bank of the irrigation canal and 1.4 feet southeast of a metal witness post with sign. It is about 2 feet higher than station elevation.

Reference mark number two is a standard disk stamped CAL ARIZ PT NO 21 NO 2 BLM 1964 cemented in the top of a 14-inch concrete cylindrical monument projecting 3 inches above ground. It is 10 feet west of the top of the west bank of the irrigation canal, 1.7 feet north of a metal witness post with sign, and 18 inches higher than station elevation.

R.M. NO. 1 to R.M. NO. 2 is 127.19 feet (38.768 meters).

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

DESCRIPTION OF TRIANGULATION STATION

NAME OF STATION: BDRY. PT. NO. 22 (BLM) CALIF-ARIZ STATE: California COUNTY: Imperial
Arizona Yuma
CHIEF OF PARTY: L. G. Burdine YEAR: 1964 DESCRIBED BY: W.V.M.

Note*	Height of telescope above station mark 4.87 meters, † Height of light above station mark meters				
desc.	Surface-station mark, underground-station mark	Distances and directions to azimuth mark; reference marks and prominent objects which can be seen from the ground at the station			
	Object	Bearing	Distance		Direction‡
			Feet	Meters	
11b	POLE	N	32.45	9.891	00° 00' 00.0"
11b	R.M. 1	E	29.45	8.977	109 24 33
	R.M. 2		44.80	13.655	202 00 13
	R.M. 1 to R.M. 2				
	BDRY. PT. NO. 21 (BLM) CALIF-ARIZ				108 58 04.7
	T8S R22W WS4 PS9				166 47 42.1

Detailed description:

The station is located in a very sandy area 6.0 miles southwest of Laguna Dam, 4 1/2 miles northeast of Yuma, 3.0 miles south of Bard and 1.0 mile west of the Colorado River.

To reach the station from Imperial Dam, drive southerly on a paved road for 4.85 miles to Laguna Dam. Continue south on a paved road for 1.15 miles to a fork. Take the left fork, straight ahead, and drive southerly on a levee road for 3.65 miles to a fork. Take the right fork and drive southwest and west on a levee road for 0.85 mile to a side road left. Turn left, leaving the levee road, and drive south on a field road for 0.75 mile to road turning left. Turn left and follow the field road east for 0.05 mile to road turning south. Turn right and follow the road south along the east end of a cultivated field for 0.1 mile to an irrigation ditch along the east end of the cultivated field. Leave the road and drive south and west along the west and north side of the irrigation ditch for 0.2 mile to a small wooden bridge over the irrigation ditch. Turn left and drive south, crossing the bridge, thence turn left and drive east on a field road along the north side of a cultivated field for 0.1 mile to the northeast corner of a cultivated field. Turn right and drive south along the east end of a cultivated field 0.05 mile to the southeast corner of a cultivated field. Select way south through sand dunes for 0.25 mile to the station.

The station mark is a Bureau of Land Management cap mark riveted to the top of a 2 1/2 inch galvanized pipe which projects 4 inches above the ground surface. It is 1.5 feet northeast of a metal witness post with a sign attached.

Reference mark 1 is a standard disk, stamped CAL ARIZ PT NO 22 NO 1 1964, set in the top of a cylindrical concrete monument which is 12 inches in diameter and projects 4 inches above the ground surface. It is 33.0 feet north-northwest of a metal witness post with a sign attached.

Reference mark 2 is a standard disk, stamped CAL ARIZ PT NO 22 NO 1 1964, set in the top of a cylindrical concrete monument which is 12 inches in diameter and projects 5 inches above the ground surface. It is 31.0 feet east of a metal witness post with a sign attached.

* Refers to notes in manuals of triangulation and state publications of triangulation.
† To nearest meter only, when an trigonometric leveling is being done.

‡ Direction-angle measured clockwise, referred to initial station.

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

DESCRIPTION OF TRIANGULATION STATION

NAME OF STATION: BDRY. PT. NO. 23 (GLO) STATE: California- COUNTY: Imperial-Yuma
 CALIF-ARIZ Arizona
 CHIEF OF PARTY: L. G. Burdine YEAR: 1964 DESCRIBED BY: D. J. Novak

desc.	Surface-station mark, underground-station mark	Distances and directions to azimuth mark, reference marks and prominent objects which can be seen from the ground at the station			
		Object	Bearing	Distance Feet Meters	Direction†
11b	BDRY. PT. NO. 22 BLM CALIF-ARIZ				00° 00' 00.0"
11b	R.M. 2	S	208.81	(63.645)	90 26 32
11b	R.M. 1	N	132.77	(40.467)	270 51 07
	POLE				91 01 58.1

Detailed description:

The station is located about 3 1/2 miles northeast of Yuma, 3 1/2 miles northeast of the Indian Mission and School in north Yuma, 3 miles south of Bard and in the center of a dual road.

To reach the station from the city hall in Yuma, go east on 1st Street for 0.4 mile to Penitentiary Avenue. Turn left and go north on Penitentiary Avenue for 0.2 mile to a fork at the north end of the Colorado River bridge. Take the right fork and go northerly on a paved road for 0.25 mile to a side road right. Turn right and go east on a levee road for 3.05 miles to a side road left. Turn left and drive north on a bladed dirt road for 0.4 mile to a farm house on the west side of the road. Continue north on the bladed dirt road for 0.6 mile to a crossroad. Continue north on the dirt road for 0.5 mile to the station as described.

The station mark is a U.S. General Land Office Survey mark riveted to the top of a 2-inch galvanized pipe set in concrete that projects 4 inches above ground surface. It is stamped "CAL S12 S7 PT NO 23 ARIZ 1949 1964". It is 13 feet west of the center of a dirt road, 11 feet east of the center of a dirt road, 3 feet east of a pink iron pipe that projects 4 feet above the ground surface and 1 foot south of a 6 inch by 10 inch railroad tie that projects 6 feet above the ground surface.

Reference mark 1, a standard disk stamped "GLO S12 S7 NO 1 1964", is set in the top of a cylindrical concrete monument that is 12 inches in diameter and projects 3 inches above the ground surface. It is 11 feet west of the center of the dirt road, 9 feet east of the center of a dirt road, 2.5 feet south of a power pole and 1.5 feet northwest of a metal witness post.

Reference mark 2, a standard disk stamped "GLO S12 S7 NO 2 1964", is set in the top of a cylindrical concrete monument that projects 6 inches above the ground surface. It is 11 feet west of the center of the dirt road, 10 feet east of the center of the dirt road, 2 feet north of a power pole and 1.8 feet south-southwest of a metal witness post.

Note: No azimuth mark was established at this station.
 Observations were made from a 16 foot stand.

* Refers to notes in manuals of triangulation and state publications of triangulation.
 † To nearest meter only; when geodetic leveling is being done.

‡ Direction angle measured clockwise, referred to initial station.

DESCRIPTION OF TRAVERSE STATION

NAME OF STATION: BDRY. PT. NO. 24 (GLO) CALIF-ARIZ

CHIEF OF PARTY: L. G. Burdine YEAR: 1964 STATE: California
Arizona COUNTY: Imperial
Yuma*Description, including sketch of object:*

5 miles northeast of Yuma, Arizona, $3\frac{1}{2}$ miles east of the Government Indian School and the Purisima Conception Mission, in the northwest angle of a crossroad and 1 foot southwest of a power pole.

A traverse connection was made to triangulation station POLE, distance being 26.26 feet 8.004 meters east of station POLE. The mark is a U.S. General Land Office Survey disk stamped T8S R23W R22W S12 S7 S13 S18 CAL ARIZ PT NO 24 1964, and is riveted to the top of a $2\frac{1}{2}$ inch galvanized pipe flush with the surface of the ground.

The geodetic azimuth from station POLE to BDRY. PT. NO. 24 (GLO) is $298^{\circ} 00' 17''$.

DESCRIPTION OF TRAVERSE STATION

NAME OF STATION: BDRY. PT. NO. 25 (GLO) CALIF-ARIZ

CHIEF OF PARTY: L. G. Burdine YEAR: 1964 STATE: Arizona
California COUNTY: Yuma
Imperial*Description, including sketch of object:*

The station is 3.7 miles south-southwest of Bard, 2.7 miles northeast of the county courthouse in Yuma, and 1 mile north of the Colorado River levee. It is on the east side of a field road at a fence corner in an area of irrigated farm land.

The mark is a General Land Office Survey disk of bronze riveted to the top of a $2\frac{1}{2}$ -inch iron pipe set in a mass of concrete and is supposed to be stamped CAL ARIZ PT NO 25 T8S R23W S14 S13 S11 S12 49 64 but is partly mutilated and not completely legible. It is 10.5 feet east of the center of a field road level with the surface of the road, 1.5 feet west southwest of a fence corner post, 0.4 foot west of an unpainted + X + witness post.

A traverse connection was made to triangulation station COB. The distance is 15.447 meters or 50.68 feet.

The geodetic azimuth from station COB to BDRY. PT. NO. 25 (GLO) is $0^{\circ} 26' 53''$.

DESCRIPTION OF TRIANGULATION STATION

NAME OF STATION: BDRY. PT. NO. 26 (BLM)
CALIF-ARIZSTATE: Arizona-
California

COUNTY: Yuma-Imperial

CHIEF OF PARTY: L. G. Burdine

YEAR: 1964

DESCRIBED BY: J. E. Sutton

Note*	Height of telescope above station mark 11.95 meters, † Height of light above station mark meters.				
desc.	Surface-station mark, underground-station mark	Distances and directions to azimuth mark, reference marks and prominent objects which can be seen from the ground at the station			
		Object	Bearing	Distance	
Feet	Meters				
11b	BEE				00° 00' 00.0"
	Reference Mark No. 2	W	85.70	26.120	20 39 31
11b	Reference Mark No. 1	SW	104.61	(31.885)	320 53 28
	COB				100 45 03.0

Detailed description:

The station is located about 2½ miles northeast of Yuma and is located in the center of a crossroad.

To reach the station from the City Hall in north Yuma, go east on "1" Street for 0.4 mile to Penitentiary Avenue. Turn left, north on Penitentiary Avenue for 0.25 mile to a Y-fork. Turn right up over railroad bridge and go north for 0.25 mile to a side road right. Turn right, east, down on to a levee road for 2.05 mile to a side road left. Turn left, north, on bladed road for 0.5 mile to a crossroad and the station as described.

The station mark is a Bureau of Land Management mark. It is riveted to the top of a 3 inch galvanized pipe which is 14 inches underground. It is stamped CAL ARIZ PT NO 26 ¼ S14 S13 1949 1964. It is 19 feet east of the center of a north-south field road, 4 feet south of a 4 by 4 wooden witness post and is in the center of an east-west field road.

Reference mark No. 1 is a standard disk set in the top of a 12-inch round concrete monument. It projects 7 inches and is stamped CAL ARIZ PT NO 26 ¼ S14 S13 NO 1 1964. It is 74 feet south of an east-west field road, 48 feet west of a north-south field road and 2.2 feet south of a metal witness post and sign.

Reference mark No. 2 is a standard disk set in the top of a 12-inch round concrete monument. It projects 10 inches and is stamped CAL ARIZ PT NO 26 ¼ S14 S13 NO 2 1964. It is 66 feet west of a north-south field road, 22 feet north of an east-west field road and 1.7 feet east of a metal witness post and sign.

* Refer to notes in manual of triangulation and state publications of triangulation.
† To nearest meter only, when no trigonometric leveling is being done.

‡ Direction-angle measured clockwise, referred to initial station.

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

DESCRIPTION OF TRIANGULATION STATION

NAME OF STATION: BDRY. PT. NO. 27 (BLM) CALIF-ARIZ STATE: California Arizona COUNTY: Imperial Yuma
 CHIEF OF PARTY: L. G. Burdine YEAR: 1964 DESCRIBED BY: J.E.F.

Note*	Height of telescope above station mark 1.65 meters, † Height of light above station mark _____ meters.				
See below	Surface-station mark, underground-station mark	Distances and directions to azimuth mark, reference marks and prominent objects which can be seen from the ground at the station.			
			Distance		
	Object	Bearing	Feet	Meters	Direction‡
	BDRY. PT. NO. 26 (BLM) CALIF-ARIZ				0° 00' 00.00"
11b	Reference mark No. 1	SSE	84.10	25.635	94 32 50
11b	Reference mark No. 2	WNW	58.67	17.881	208 55 49

Detailed description:

The station is located 1/2 mile north of the north edge of the city limits of Yuma, Arizona and the Colorado River, about 0.15 mile north of the buildings of the Government Indian School and the Purisima Conception Mission, and on the east shoulder of a paved road in the Yuma Indian Reservation.

To reach the station from the city hall in Yuma, go east on 1st Street to Penitentiary Avenue, turn left and go north on Penitentiary Avenue 0.2 mile to a fork at the north end of the Colorado River bridge. Take the right fork, cross a railroad overpass and go northerly on a paved road for 0.25 mile to a side road on the right; continue northerly on the paved road for 0.1 mile to the station on the right.

Station mark is a U.S. Dept. of The Interior Bur. of Land Management Cadastral Survey disk, stamped CAL ARIZ PT NO 27 1964, riveted to the top of a 2 inch galvanized iron pipe set in concrete and projects 4 inches. It is 12 feet east of the center of the road.

Reference mark No. 1, a standard disk stamped CAL ARIZ PT NO 27 NO 1 1964, set in top of a 12 inch concrete cylinder that projects 3 inches. It is 26.5 feet west of the center of the paved road and 1.5 feet west of a metal witness post with sign.

Reference mark No. 2, a standard disk stamped CAL ARIZ PT NO 27 NO 2 1964, set in top of a 12 inch concrete cylinder that projects 3 inches. It is 24.5 feet west of the center of the paved road and 3.5 feet north of a metal witness post with sign.

* Refer to notes on manual of triangulation and chart publications of triangulation
 † To protect water only; when no trigonometric leveling is being done.

‡ Direction (true) measured clockwise, referred to initial station

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

DESCRIPTION OF TRIANGULATION STATION

NAME OF STATION: BDRY. PT. NO. 28 (BLM) CALIF-ARIZ STATE: California-Arizona COUNTY: Imperial-Yuma
 CHIEF OF PARTY: L. G. Burdine YEAR: 1964 DESCRIBED BY: D. J. Novak

Note*	Height of telescope above station mark 1.56 meters, † Height of light above station mark meters.				
desc.	Surface-station mark, underground-station mark	Distances and directions to azimuth mark, reference marks and prominent objects which can be seen from the ground at the station			
		Distance			
	Object	Bearing	Feet	Meters	Direction‡
12a	DELTA (USGS)				00° 00' 00.0"
	R.M. 1	SE	66.45	20.254	101 22 26
12a	CAL ARIZ PT NO 29 RM 1 (RM 2)	NW	46.17	14.072	288 48 04
	BDRY. PT. NO. 29 (BLM) CALIF-ARIZ		28.16	8.582	235 19 51.9

Detailed description

The station is located at the Indian Mission Hospital in Yuma, east of the northeast corner of rock wall surrounding the hospital and on road right-of-way.
 To reach the station from the City Hall in Yuma, go east and north on First Street for 0.6 mile to a fork just after crossing the Colorado River bridge. Turn right and go north on a paved road crossing a wooden bridge for 0.25 mile to the station on the right.
 The station mark, a U.S. Department of the Interior Bureau of Land Management Cadastral Survey disk, stamped "CAL ARIZ PT NO 28 1964", is riveted to the top end of a 2-inch cast iron pipe set in concrete and projects 3 inches above the ground surface. It is 112 feet south of the center of a T-road intersection, 43 feet south-east of power pole number 8725 D with a metal witness post sign, 29 feet east of the northeast corner of a rock wall and 14 feet east of the center of a paved road.
 Reference mark 1, a standard disk stamped "CAL ARIZ PT NO 28 NO 1 1964", is cemented in a drill hole in an outcrop and flush with the surface. It is 89 feet southeast of the northeast corner of the rock wall, 68 feet southeast of the center of the paved road and 48 feet south of the center of a track road.
 Reference mark 2, a standard disk stamped "CAL ARIZ PT NO 29 NO 1 1964", is cemented in a drill hole in an out crop and flush with the surface. It is 37.5 feet south of the northeast corner of the rock wall, 19 feet west of the center of the paved road and 4 feet south of the power pole.

Note: No azimuth mark established at this station.

* Refer to notes in manual of triangulation and state publications of triangulation
 † To nearest meter only, when to trigonometric leveling is being done.
 ‡ Direction—angle measured clockwise, referred to initial station.

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

DESCRIPTION OF TRIANGULATION STATION

NAME OF STATION: BDRY. PT. NO. 29 (BLM) CALIF-ARIZ STATE: Ariz.-Calif. COUNTY: Yuma-Imperial

CHIEF OF PARTY: L. G. Burdine YEAR: 1964 DESCRIBED BY: J. W. Quesinberry

Note*	Height of telescope above station mark 6.03 meters; † Height of light above station mark meters.				
desc.	Surface-station mark, underground-station mark		Distances and directions to azimuth mark, reference marks and prominent objects which can be seen from the ground at the station		
	Object	Bearing	Distance		Direction‡
Feet			Meters		
12a	BDRY. PT. NO. 26 (BLM) CALIF-ARIZ				0° 00' 00.00"
	CAL ARIZ PT NO 28 RM 1 (Used as R.M. No. 2)	ESE	88.41	26.948	37 58 18
12a	R.M. No. 1	N	37.09	11.306	276 16 37
	BDRY. PT. NO. 28 (BLM) CALIF-ARIZ		28.16	8.582	5 11 41

Detailed description:

The station is located at the Indian Mission Hospital in Yuma, at the northeast corner of rock wall surrounding the hospital and on road right-of-way.

To reach the station from the City Hall in Yuma, go east and north on First Street for 0.6 mile to a fork just after crossing the Colorado River bridge. Turn right and go north on a paved road crossing a wooden bridge for 0.25 mile to the station on the left.

Station mark, a U.S. Dept. of The Interior Bur. of Land Management Cadastral Survey disk, stamped CAL ARIZ PT NO 29 1964, is riveted to the top end of a 2-inch cast iron pipe set in concrete and projects 4 inches above the ground surface. It is 23 feet south of a power pole with a witness post sign, 14.5 feet west of the center of a blacktop road and 0.7 feet east of the northeast corner of a rock wall.

Reference mark 1, a standard disk stamped CAL ARIZ PT NO 29 NO 1 1964, is cemented in a drill hole in an outcrop and flush with the surface. It is 37.5 feet south of the northeast corner of the rock wall, 19 feet west of the center of the blacktop road and 4 feet south of the power pole.

Reference mark 2, a standard disk stamped CAL ARIZ PT NO 28 NO 1 1964, is cemented in a drill hole in an outcrop and flush with the surface. It is 89 feet southeast of the northeast corner of the rock wall, 68 feet southeast of the center of the blacktop road and 48 feet south of the center of a track road.

Note: No azimuth mark established at this station.
Observations were made from a 20 foot stand.

* Refer to notes in manuals of triangulation and state publications of triangulation
† To nearest meter only, when an trigonometric leveling is being done.

‡ Direction angle measured clockwise, referred to initial station.

DESCRIPTION OF TRAVERSE STATION

NAME OF STATION: BDRY. PT. NO. 30 CALIF-ARIZ

CHIEF OF PARTY: L. G. Burdine

YEAR: 1964

STATE: Arizona
CaliforniaCOUNTY: Yuma
Imperial*Description, including sketch of object:*

The station is located about 0.1 mile north of the Colorado River and the north edge of the city of Yuma. It is in the west curb of the wooden bridge which carries the oiled road to the Yuma Indian Mission and School over the Southern Pacific Railroad tracks.

To reach the station from the city hall in Yuma, go east on 1st Street to Penitentiary Avenue; turn left and go north on Penitentiary Avenue for a combined distance of 0.6 mile to a fork at the north end of the Colorado River bridge. Take the right fork over the railroad bridge to the station on the left near the northwest end of the bridge.

The mark is a center-punched lag bolt screwed into the 6 X 6 timber forming the west curb of the bridge. It is marked by the letters "PT NO 30" carved in the timber just south of the bolt.

A traverse connection was made to PT NO 30 RM (BLM) the distance being 9.2748 meters or 30.43 feet and the bolt is 0.61 meter higher than the RM.

This station is Point Number 30 of the Interstate Boundary Compact between the states of Arizona and California.

The geodetic azimuth from station BDRY. PT. NO. 30 RM to BDRY. PT. NO. 30 is $89^{\circ} 43' 33''$.

DESCRIPTION OF TRIANGULATION STATION

NAME OF STATION: BDRY. PT. NO. 31 (BLM)
CALIF-ARIZSTATE: California-
Arizona

COUNTY: Imperial-Yuma

CHIEF OF PARTY: L. G. Burdine

YEAR: 1964

DESCRIBED BY: G. D. Banks

Note*	Height of telescope above station mark 12.05 meters. † Height of light above station mark meters				
desc. none	Surface-station mark, underground-station mark		Distances and directions to azimuth mark, reference marks and prominent objects which can be seen from the ground at the station		
	Object	Bearing	Distance		Direction‡
			Feet	Meters	
desc. desc.	BDRY. PT. NO. 30 CALIF-ARIZ RM 1	S	123.78	(37.728)	0° 00' 00" 0"
	RM 2	NNW	194.54	(59.296)	82 27 37
	BDRY. PT. NO. 33 CALIF-ARIZ				247 16 48
					174 57 12.4

Detailed description:

The station is located airline, about 1/2 mile north-northeast of Yuma and 0.2 mile north of the Arizona Check Station on old U.S. Highway 80.

To reach the station from the post office in Yuma, go north on Main Street for 0.25 mile to First Street. Turn right and go east and north on First Street (old U.S. Highway 80) for 0.4 mile to a fork at the north end of a bridge over the Colorado River. Take the left fork (old Highway 80) and continue north on the paved road for 0.05 mile to the south end of an old abandoned check station and the station on the right.

Station mark is a U.S. Bureau of Land Management bronze disk, stamped CAL ARIZ PT NO 31 1964, brazed to the top of a 3-inch iron pipe which is set in an irregular mass of concrete flush with the surface of the ground. It is 62 feet east of the centerline of old U.S. Highway 80, 20 feet east-northeast of a wooden flagpole and 13 feet southeast of the southeast corner of a brick building.

Reference mark 1 is a standard disk, stamped CAL ARIZ PT NO 31 NO 1 1964, cemented in a drill hole in the top of the north end of a concrete abutment which projects about 3 feet above the ground surface. It is 125 feet south of the southwest corner of the brick building, 19 feet east of the centerline of the highway and about 5 feet higher in elevation than the station.

Reference mark 2 is a standard disk, stamped CAL ARIZ PT NO 31 NO 2 1964, cemented in a drill hole in the top of the southwest corner of a railroad signal foundation which projects about 2 feet above the ground surface. It is 87 feet east of the centerline of the highway, 35 feet east-northeast of the northeast corner of the brick building, 10 feet southwest of the southwest rail of a railroad track and about the same elevation as the station.

* Refers to notes in manuals of triangulation and state publications of triangulation

† Direction-angle measured clockwise, referred to initial station

‡ To nearest meter only, when no theodolitic leveling is being done

DESCRIPTIONS OF STATIONS USED AS REFERENCE FOR THE
BOUNDARY POINTS WHICH WERE NOT MONUMENTED

DESCRIPTION OF TRIANGULATION STATION

NAME OF STATION: BDRY. REF. PT. NO. 1A

STATE: California

COUNTY: San Bernardino

CHIEF OF PARTY: L. G. Burdine

YEAR: 1964

DESCRIBED BY: D. R. Tomlinson

Note*	Height of telescope above station mark 1.61 meters, † Height of light above station mark meters.				
1a 7b	Surface-station mark, underground-station mark	Distances and directions to azimuth mark, reference marks and prominent objects which can be seen from the ground at the station			
			Distance		
	Object	Bearing	Feet	Meters	Direction‡
11b	SOTO				0° 00' 00.0"
11b	R.M. 1	S	34.68	10.571	51 40 23
11b	R.M. 2	NW	34.63	10.556	167 20 46
	R.M. 1 to R.M. 2		58.68	17.887	
	BDRY. REF. PT. NO. 1B				0 27 52.8

Detailed description:

Station is about 11 miles north of Needles, near the state boundaries of Arizona, California and Nevada, and on the west bank of the Colorado River. This station was established to determine fixed point number one.

To reach the station from the intersection of Front and H Streets at the northwest corner of the city hall in Needles, go northwest on U.S. Highway 66 for 2.25 miles to a fork. Take the right fork, River Road and go 4.75 miles to a fork. Take the right fork, paved road and go north for 1.6 miles to a crossroad. Turn right, graveled road and go easterly for 1.05 miles to a T-road. Turn left, on graded road and go northerly along the west bank of the river for 3.55 miles to a sign "STATE OF NEVADA" and the station on the left.

Station marks are standard disks, stamped POINT NO 1 A 1964. The surface disk is set in the top of a round concrete post projecting 8 inches. It is 61 feet northwest of the sign, 16 feet west of the centerline of the road and 3.5 feet west of a witness post. The underground disk is set in an irregular mass of concrete 38 inches below the ground surface.

Reference mark 1 is a standard disk, stamped POINT NO 1 A NO 1 1964, set in the top of a round concrete post projecting 6 inches. It is 34 feet west-northwest of the sign, 35 feet west of the centerline of the road and about 2 feet lower than the station mark.

Reference mark 2 is a standard disk, stamped POINT NO 1 A NO 2 1964, set in the top of a round concrete post projecting 4 inches. It is 37 feet west of the centerline of the road and about 2 feet lower than the station mark.

According to computations based on the position of BDRY. PT. NO. 1, Center of Colorado River, BDRY. REF. PT. NO. 1A is 10.0 feet southwest and perpendicular to the line joining BDRY. PT. NO. 1 and BOUNDARY POST 142 CALIF-NEV. 1893

The geodetic azimuth and distance to BDRY. PT. NO. 1 are:

Azimuth	Distance
313° 46' 06.2"	meters 268.348
	feet 880.41

* Refer to notes in manuals of triangulation and state publications of triangulation
 † To nearest meter only, when no trigonometric leveling is being done

‡ Direction-angle measured clockwise, referred to initial station

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

DESCRIPTION OF TRIANGULATION STATION

NAME OF STATION: BDRY. REF. PT. NO. 1B

STATE: Arizona

COUNTY: Mohave

CHIEF OF PARTY: L. G. Burdine

YEAR: 1964

DESCRIBED BY: D. R. Tomlinson

Note*	Height of telescope above station mark 1.35 meters, † Height of light above station mark meters.				
1a 7b	Surface-station mark, underground-station mark	Distances and directions to azimuth mark, reference marks and prominent objects which can be seen from the ground at the station			
			Distance		
	Object	Bearing	Feet	Meters	Direction‡
11b	BDRY. REF. PT. NO. 1A	NNE	95.56	29.126	0° 00' 00.0"
11b	R.M. 1	ESE	61.59	18.772	62 54 43
	R.M. 2		14.97	4.563	159 17 04
	SOTO				74 08 44.7

Detailed description:

The station is about 11 miles north of Needles, California, near the state boundaries of California, Nevada and Arizona, and on the east bank of the Colorado River. This station was established to determine fixed point number one.

To reach the station from the intersection of Front and H Streets at the northwest corner of the city hall in Needles, California, go north on H Street, crossing the Santa Fe Railroad, for 0.15 mile to a T-road and a golf course on the north side of the intersection. Turn right and go easterly on paved road for 0.4 mile to a T-road. Turn right, south and follow along levee road for 1.0 mile to a bridge over the Colorado River. Continue ahead, crossing the bridge for 0.1 mile to a T-road. Turn left and go northwest on paved road 1.0 mile to a road fork. Take the right fork and go north on the paved road for 8.2 miles to a crossroad and sign "OATMAN-DAVIS DAM" on the right. Turn left and go west on a gravel road for 1.6 miles to a fork. Take the right fork and go northwest on a gravel road for 0.45 mile to a levee road. Turn right and go north on the levee road for 1.8 miles to a side road on the left. Turn left and go west for 0.1 mile to a T-road on the east river bank. Turn right and go north on the east bank river road for 0.1 mile to a turn-out and the station on the right.

Station marks are standard disks stamped POINT NO 1 B 1964. The surface disk is set in the top of a round concrete post projecting 2 inches. It is 34 feet east of the centerline of the river road and 4 feet north of the south edge of the fill of the turn-out. The underground disk is set in an irregular mass of concrete 38 inches below the ground surface.

Reference mark 1 is a standard disk, stamped SOTO NO 1 1964, set in the top of a round concrete post projecting 6 inches. It is 84 feet east of the centerline of the road and about 4 feet lower than the station.

Reference mark 2 is a standard disk, stamped SOTO NO 2 1964, set in the top of a round concrete post projecting 6 inches. It is 68 feet east of the centerline of the road and about 4 feet lower than the station.

A traverse connection was made to triangulation station SOTO. The distance being 4.563 meters or 14.97 feet, north.

The geodetic azimuth and distance to BDRY. PT. NO. 1 are:

Azimuth	Distance	feet
135° 09' 51.8"	273.999 meters	898.95

* Refer to notes in manuals of triangulation and state publications of triangulation.
† To exact meter only, when no trigonometric leveling is being done.

‡ Direction-angle measured clockwise, referred to initial station.

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

DESCRIPTION OF TRIANGULATION STATION

NAME OF STATION: REFUGE

STATE: Arizona

COUNTY: Mohave

CHIEF OF PARTY: L. G. Burdine

YEAR: 1964

DESCRIBED BY: D. J. Novak

Note*	Height of telescope above station mark 1.74 meters, † Height of light above station mark meters.				
4	Surface-station mark, underground-station mark	Distances and directions to azimuth mark, reference marks and prominent objects which can be seen from the ground at the station			
			Distance		
	Object	Bearing	Feet	Meters	Direction‡
	BREEZE 1934				00° 00' 00 0"
12c	R.M. 1	W	47.59	14.505	261 39 24
12c	R.M. 2	NNW	74.48	23.617	306 30 47

Detailed description:

The station is located about 10 miles southeast of Needles, about 1 mile northwest of Topock and about 0.2 mile southwest of the Colorado River.

To reach the station from the post office in Topock, go west on U.S. Highway 66 for 0.55 mile to a railroad underpass. Continue northerly on Highway 66 for 0.4 mile to the station on the left.

The station mark, a standard disk stamped "REFUGE 1964", is cemented in a drill hole in a boulder that is flush with the surface of the ground. It is 93 feet southwest of the center of U.S. Highway 66, 32 feet northwest of the southeast edge of a wash and 4 feet southeast of a metal witness post.

Reference mark 1, a standard disk stamped "REFUGE NO 1 1964", is cemented in a drill hole in a boulder that projects 10 inches above ground surface. It is 135 feet southwest of the center of U.S. Highway 66, 45 feet northwest of the southeast edge of the wash, 44 feet west of the metal witness post and about 4 feet higher in elevation than the station.

Reference mark 2, a standard disk stamped "REFUGE NO 2 1964", is cemented in a drill hole in a boulder that projects 1 foot above ground surface. It is 112 feet southwest of the center of U.S. Highway 66, 73.5 feet northwest of the metal witness post and about 3 feet higher in elevation than the station.

No azimuth mark was established at this station.

This station was used to locate BDRY. PT. NO. 2 CALIF-ARIZ which is in the center of the channel of the Colorado River.

* Refer to notes in manuals of triangulation and state publications of triangulation.
† To nearest meter only, when no trigonometric leveling is being done.

‡ Direction-angle measured clockwise, referred to initial station.

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

DESCRIPTION OF TRIANGULATION STATION

NAME OF STATION: DOCK

STATE: Arizona

COUNTY: Yuma

CHIEF OF PARTY: L. G. Burdine

YEAR: 1964

DESCRIBED BY: B. R. Lewis

Note*	Height of telescope above station mark 1.00 meters. † Height of light above station mark meters				
Desc.	Surface-station mark, underground-station mark	Distances and directions to azimuth mark, reference marks and prominent objects which can be seen from the ground at the station:			
		Object	Bearing	Distance	
Feet	Meters				
Desc.	FILL				0° 00' 00"
Desc.	Reference Mark No. 1	SE	21.16	6.451	245 49 01
Desc.	Reference Mark No. 2	WSW	21.10	6.433	340 29 17

Detailed description:

The station is located about 2 miles northeast of Parker, 2 miles east of Earp, California, and on the southeast shore line of the Colorado River. It is inside the fenced area of the Blue Water Marine Park on property of the Colorado River Indian Reservation.

To reach the station from the intersection of California Avenue and River Side Road (Spur 95 and State Highway 95) in Parker, go northeasterly on River Side Road (State Highway 95) for 1.95 miles to the west entrance gate of the Blue Water Marine Park on the left. Turn left, passing through the gate, and go northeast for 0.05 mile to the Judges Stand and the station on the northeast corner as described.

The station mark is a standard disk cemented in a drill hole, set flush with the concrete foundation and is stamped DOCK 1964. It is 2.6 feet north of the north corner of the Judges Stand, 1.8 feet southwest of the northeast edge and 1.8 feet southeast of the northwest edge of the foundation.

Reference mark No. 1 is a standard disk cemented in a drill hole, set flush with the concrete foundation and is stamped DOCK NO 1 1964. It is 3.8 feet east of the east corner of the Judges Stand, 1 foot southwest of the northeast edge and 1 foot northwest of the southeast edge of the foundation.

Reference mark No. 2 is a standard disk cemented in a drill hole, set flush with the concrete foundation and is stamped DOCK NO 2 1964. It is 3.8 feet west of the west corner of the Judges Stand, 1 foot southeast of the northwest edge and 1 foot northeast of the southwest edge of the foundation.

No azimuth mark was set for this station.

This station was used to locate BDRY. PT. NO. 7 CALIF-ARIZ which is in the center of the Colorado River.

* Refer to notes in manuals of triangulation and state publications of triangulation.
† To nearest meter only, when no trigonometric leveling is being done.

‡ Direction—angle measured clockwise, referred to initial station.

DESCRIPTION OF TRIANGULATION STATION

NAME OF STATION: FLAT STATE: California COUNTY: San Bernardino
 CHIEF OF PARTY: L. G. Burdine YEAR: 1964 DESCRIBED BY: D. R. Tomlinson

Note*	Height of telescope above station mark 6.05 meters, † Height of light above station mark meters.				
1a. 7b.	Surface-station mark, underground-station mark	Distances and directions to azimuth mark, reference marks and prominent objects which can be seen from the ground at the station			
	Object	Bearing	Distance		Direction‡
			Feet	Meters	
11b	WATHEN R.M. 1	SE	50.83	15.493	(0° 00' 00.0" 54 14 23
11b	R.M. 2	SW	55.20	16.825	145 59 22

Detailed description:

Station is about 1½ miles north of the center of Parker, Arizona, 1 mile northeast of Earp, California, ½ mile west of the earth fill of Headgate Rock Dam and on a silt, grass and brush covered area of the Colorado River.

To reach from the Arizona Inspection Station in the northwest edge of Parker, Arizona, go northwest on State Highway 95 for 0.75 mile to a T-intersection. Turn right and go easterly on paved road for 1.0 mile to a track road right. Turn right and follow track road toward river for 0.1 mile to the end of track road at river bank and end of truck travel. The station is about 75 yards south in the old river bed.

Station marks are standard disks, stamped FLAT 1964. The surface disk is set in the top of a round concrete post projecting 8 inches. It is 2 feet west of a witness post. The underground disk is set in an irregular mass of concrete 38 inches below the ground surface.

Reference mark 1 is a standard disk, stamped FLAT NO 1 1964, set in the top of a round concrete post projecting 8 inches. It is about the same elevation as the station.

Reference mark 2 is a standard disk, stamped FLAT NO 2 1964, set in the top of a round concrete post projecting 10 inches. It is about the same elevation as the station.

This station was used to locate BDRY. PT. NO. 9 CALIF-ARIZ which lies on the centerline of the Colorado River.

* Refer to notes to manuals of triangulation and state publications of triangulation.
 † To nearest meter only, when an trigonometric leveling is being done.

‡ Direction angle measured clockwise, referred to initial station.

DESCRIPTION OF TRIANGULATION STATION

NAME OF STATION: VIEW STATE: California COUNTY: San Bernardino
 CHIEF OF PARTY: L. G. Burdine YEAR: 1964 DESCRIBED BY: J.E.F.

Note*	Height of telescope above station mark 1.62 meters; † Height of light above station mark meters.				
1b 7a	Surface-station mark, underground-station mark	Distances and directions to azimuth mark, reference marks and prominent objects which can be seen from the ground at the station			
			Distance		
	Object	Bearing	Feet	Meters	Direction‡
11b	FLAT				0° 00' 00.00"
	Parker, Municipal Tank, Elevated	S	Approx.	2 miles	119 03 57.4
11b	Reference mark No. 1	SW	44.46	13.552	171 35 44
11b	Reference mark No. 2	NW	50.30	15.331	272 45 30
	R.M. 1-R.M. 2		73.30	22.343	

Detailed description:

The station is about 1 1/4 miles north-northwest of Parker, Arizona; 0.1 mile northeast of the River View Trailer Park, on the crest of a low bluff at the northwest side of the Colorado River and on land of the Colorado River Indian Reservation.

To reach the station from the post office in Parker, Arizona, go northwest on Joshua Ave. for 50 yards to Arizona Ave.; turn right and go northeast on Arizona Ave. for 0.1 mile to California Ave. (State Highway 95). Turn left and go northwest on Highway 95 for 0.2 mile to where Highway 95 turns to the right; continue northwest on State Spur 95 for 0.8 mile to a bridge across the Colorado River. Cross the bridge and go northerly for 0.5 mile to a T-road. Turn right and go easterly on a paved road for 0.25 mile to the entrance to the River View Trailer Park on the right; continue easterly on the paved road for 0.3 mile to a track road on the right. Turn right and go southeast on the track road for 30 feet to a fork; take right fork and go 250 feet to a track road on the right. Turn right and go westerly on the track road for 0.05 mile to the northwest base of the bluff; turn left, go uphill and along the top of the bluff for 0.05 mile to the southeast end of the bluff and the station.

Station marks are standard disks stamped VIEW 1964. The surface disk is set in a round concrete post which projects 3 inches. It is 38 feet west of the southeast edge of the bluff and 4.2 feet north of a metal witness post. The underground disk is set in an irregular mass of concrete 40 inches below the surface of the ground.

Reference mark No. 1, a standard disk stamped VIEW NO 1 1964, is set in a round concrete post which projects 4 inches. It is 30 feet west of the southeast edge of the bluff and about the same elevation as the station.

Reference mark No. 2, a standard disk stamped VIEW NO 2 1964, is set in a round concrete post which projects 4 inches. It is 7 feet southwest of the north-northeast edge of the bluff and about the same elevation as the station.

Note: An azimuth mark was not set for this station.

Reference marks were measured using 5 kg. tape tension.

This station was used to locate BDRY, PT. NO. 10 CALIF-ARIZ which is in the center of the Colorado River.

* Refers to notes in manuals of triangulation and state publications of triangulation.
 † To nearest meter only, when no trigonometric leveling is being done.

‡ Direction-shield disk—used clockwise, referred to initial station.

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

DESCRIPTION OF TRIANGULATION STATION

NAME OF STATION: SQUAW STATE: Arizona COUNTY: Yuma
 CHIEF OF PARTY: L. G. Burdine YEAR: 1964 DESCRIBED BY: C. M. Call

Note*	Height of telescope above station mark 1.51 meters, † Height of light above station mark meters.				
2	Surface-station mark, underground-station mark	Distances and directions to azimuth mark, reference marks and prominent objects which can be seen from the ground at the station			
			Distance		
	Object	Bearing	Feet	Meters	Direction‡
12 a	IMPERIAL				00° 00' 00.0"
12 a	Reference Mark No. 2	NW	32.12	9.790	140 52 15
12 a	Reference Mark No. 1	E	44.89	13.683	273 43 02

Detailed description:

The station is located 19 miles northwest of Laguna, 15 miles northeast of Yuma, and 13 1/4 miles north of Imperial Dam. It is on land of the Imperial National Wildlife Refuge, on a small island about 100 feet in diameter, in the Colorado River and nearer the Arizona shore.

To reach the station from the Bureau of Reclamation boathouse which is 0.1 mile north of the Water Control Communications Headquarters building at the west end of Imperial Dam, go north by boat by various river channels for 13 1/4 miles to the island on the starboard side. The best landing point is at an opening in the reeds on the northwest side of the island.

The station mark is a standard disk stamped SQUAW 1964 cemented in a drill hole in a depression in decomposed bedrock. It is about 4 inches below the surrounding surface and about 12 feet above the surface of the river.

Reference mark number one is a standard disk stamped SQUAW NO 1 1964 cemented in a drill hole in decomposed bedrock held together with cement flush with the surrounding surface. It is on the highest point of the island and is about 1 foot higher than station elevation.

Reference mark number two is a standard disk stamped SQUAW NO 2 1964 cemented in a drill hole in a little ridge of jagged bedrock. It is on the northwest slope of the island and about 2 feet lower than the station mark.

This station was used to locate BDRY. PT. NO. 15 CALIF-ARIZ which lies on the centerline of the Colorado River.

* Refers to notes in manuals of triangulation and coast publication of triangulation.
 † To nearest meter only, when geodetic levelling is being done.

‡ Direction-angle measured clockwise, referred to initial station.

DESCRIPTION OF TRIANGULATION STATION

NAME OF STATION: MITTRY

STATE: California

COUNTY: Imperial

CHIEF OF PARTY: L. G. Burdine

YEAR: 1964

DESCRIBED BY: W. V. Mast

Note*	Height of telescope above station mark 19.34 meters, † Height of light above station mark meters.				
desc.	Surface-station mark, underground-station mark	Distances and directions to azimuth mark, reference marks and prominent objects which can be seen from the ground at the station			
		Object	Bearing	Distance	
Feet	Meters				
desc.	SUGARLOAF 2 (USE)	NW	62.60	19.079	00° 00' 00.0"
desc.	R.M. 2				125 57 36
desc.	BLM Sec. Mark T15S R24E (Azimuth Mark)	N	0.3 mile		162 49 55.5
desc.	R.M. 1	NE	58.51	17.834	220 48 36
	R.M. 1 to R.M. 2		89.21	27.192	
	BDRY. PT. NO. 17 CALIF-ARIZ			42.682	167 46 21

Detailed description:

The station is located in a sandy brush covered area between the All American Canal and the Colorado River. It is presently in California about 2.65 miles south-southwest of Imperial Dam, 2.15 miles northeast of the center of Laguna Dam, 2.0 miles southwest of the Yuma Proving Ground Headquarters and $\frac{1}{2}$ mile west of the west bank of the Colorado River.

To reach the station from Imperial Dam, drive south along the west side of the Colorado River for 0.6 mile to a side road left. Turn left, go east and south along the west side of a canal for 0.5 mile to a side road right and a dike crossing the canal on the left. Turn left, cross the canal on the dike road, thence turn right and go south along the east side of the canal for 0.4 mile to a side road left. Turn left, go east and southeast on a track road through dense brush for 0.3 mile to a T-road. Turn right, go south on a track road for 0.25 mile to a fork. Take the right fork, continue south on the track road for 0.35 mile to a fork. Take the left fork, continue south on the track road for 0.3 mile to a crossroad and the azimuth mark in the northwest angle. Continue south on the track road for 0.3 mile to a crossroad and the station in the southeast angle.

The station mark is a standard disk, stamped MITTRY 1964, brazed to the top of a 2-inch galvanized pipe which projects 10 inches above the ground surface. It is 70 feet south of the center of an east-west track road, 53 feet east of the center of a north-south track road and 2.6 feet northwest of a metal witness post with a sign attached.

Reference mark 1 is a standard disk, stamped MITTRY NO 1 1964, brazed to the top of a 2-inch galvanized pipe which projects 8 inches above the ground surface. It is 57.6 feet northeast of a metal witness post with a sign attached and 15 feet southwest of the center of the east-west track road.

Reference mark 2 is a standard disk, stamped MITTRY NO 2 1964, brazed to the top of a 2-inch galvanized pipe which projects 8 inches above the ground surface. It is 65 feet northwest of a metal witness post with a sign attached and 11 feet east of the center of the north-south track road.

The azimuth mark is a Bureau of Land Management pipe mark with the cap type disk riveted to the top of a 2½ inch galvanized pipe which projects 8 inches above the ground surface. It is 14 feet north of an east-west track road, 8 feet west of the center of a north-south track road and 0.4 foot north of a 4 × 4 inch witness post. The disk is stamped T15S R24E S20 S21 S29 S28 1961.

This station was used as a reference for BDRY. PT. NO. 17 CALIF-ARIZ. See description of BDRY. PT. 17.

* Refer to notes in manuals of triangulation and state publications of triangulation.
† To nearest meter only, when no trigonometric leveling is being done.

‡ Direction-angle measured clockwise, referred to initial station.

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

DESCRIPTION OF TRIANGULATION STATION

NAME OF STATION: KOOL STATE: Arizona COUNTY: Yuma
 CHIEF OF PARTY: L. G. Burdine YEAR: 1964 DESCRIBED BY: J. W. Quesinberry

Note*	Height of telescope above station mark 19.29 meters, † Height of light above station mark meters.				
desc.	Surface-station mark, underground-station mark	Distances and directions to azimuth mark, reference marks and prominent objects which can be seen from the ground at the station			
	Object	Bearing	Distance		Direction‡
Feet			Meters		
desc.	DELTA (USGS)				0° 00' 00.00"
desc.	R. M. No. 1	NE	94.41	28.777	67 54 29
desc.	Azimuth Mark	E	Approx.	1.0 mile	113 32 27.9
desc.	R. M. No. 2	SW	101.96	31.080	264 00 32

Detailed description:

The station is located about 9 miles northeast of Yuma, 5 miles southwest of Yuma Proving Ground Headquarters, 1 mile southwest of Laguna Dam and on the east bank of the Colorado River.

To reach the station from the main entrance to the Yuma Proving Ground Headquarters, go west on a black top road for 0.2 mile to a crossroad at the west end of a bridge over a canal. Turn left and go south along the west side of the canal on a gravel road for 6.0 miles to a flood gate on the right. Continue south on the gravel road for 0.15 mile to a side road and canal on the right. Turn right and go west along the north side of the canal on a dirt road for 0.25 mile to the azimuth mark on the right. Continue west on the dirt road for 0.65 mile to a side road and irrigation ditch on the right. (Note: In the event the field is flooded for irrigation it will be a pack from this point.) Turn right and go southwest along the top of a dike for 0.2 mile, thence south along the top of a sandy dike for 0.1 mile to the station on the left.

The station mark, a standard disk stamped KOOL 1964, is brazed to the top end of a 2-inch cast iron pipe set in concrete and projects 1 foot above the ground surface. It is 31 feet northwest of the northwest edge of a cultivated field, 17 feet southeast of the west edge of a bank and 1.6 feet south of a metal witness post.

Reference mark 1, a standard disk stamped KOOL NO 1 1964, is brazed to the top end of a 2-inch cast iron pipe set in concrete and projects 4 inches above the ground surface. It is 94.5 feet north of the metal witness post, 49 feet northwest of the northwest edge of the cultivated field, 7 feet southeast of the west edge of the bank and 1 foot northwest of a metal post.

Reference mark 2, a standard disk stamped KOOL NO 2 1964, is brazed to the top end of a 2-inch cast iron pipe set in concrete and projects 1 foot above the ground surface. It is 103 feet southwest of the metal witness post, 47 feet northwest of the northwest edge of the cultivated field, 10 feet southeast of the west edge of the bank and 1 foot northwest of a metal post.

Azimuth mark, a standard disk stamped KOOL 1964, is brazed to the top end of a 2-inch cast iron pipe set in concrete and projects 3 inches above the ground surface. It is 70 feet north of the north edge of a canal, 58 feet north of the center of a dirt road, 2 feet south of a telephone pole and 1.7 feet north of a metal witness post.

Observation was made from a 64 foot tower.

Note: A four wheel drive vehicle required.

This station was used to locate BDRY. PT. NO. 19 CALIF-ARIZ which lies on the centerline of the Colorado River.

* Refer to notes in manuals of triangulation and state publications of triangulation.
 † To nearest meter only, when no trigonometric leveling is being done.

‡ Direction-azimuth measured clockwise, referred to initial station.

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

DESCRIPTION OF TRIANGULATION STATION

NAME OF STATION: T8S R22W WS4 PS9 (BLM) STATE: Arizona COUNTY: Yuma
 CHIEF OF PARTY: L. G. Burdine YEAR: 1964 DESCRIBED BY: J. W. Quesinberry

Note*	Height of telescope above station mark 19.66 meters, † Height of light above station mark meters.				
desc.	Surface-station mark, underground-station mark	Distances and directions to azimuth mark, reference marks and prominent objects which can be seen from the ground at the station			
	Object	Bearing	Distance		Direction‡
Feet			Meters		
11b	SUGARLOAF 2 (USE)	E	74.82	22.805	0° 00' 00.00"
11b	R. M. No. 1	NNW	88.70	27.034	39 51 02
	R. M. No. 2				300 25 38

Detailed description:

The station is located about 5 miles south-southwest of the main blacktop road leading to Laguna Dam, 4 miles north of U.S. Highway 95, at the section line between Section 4 and 9, E-W, Range 22 W of the Salt River and Gila Meridian and on the east bank of the Colorado River.

To reach the station from the junction of U.S. Highways 95 and 80 at the south edge of Yuma, go east on highway 95 for 6.6 miles to a crossroad at the Winns Gila Store. Turn left and go north on a blacktop road for 4.1 miles to a crossroad. Turn left and go west on a dirt road for 0.6 mile to side road left. Turn left cross over a canal, take left fork and go about 100 feet to a fork. Take left fork and go west on a gravel road for 0.05 mile to a earth bridge over a canal. Turn left cross the bridge thence west and south on a field road for 0.2 mile to the station near a dump area.

Station mark, a U.S. Dept. of The Interior Bur. of Land Management Cadastral Survey disk, stamped T8S R22W WS4 PS9 1960, is riveted to the top end of a 2-inch cast iron pipe set in concrete and projects 3 inches above the ground surface. It is 62 feet north of the north edge of a canal, 39 feet west of the center of a track road and 30 feet east of the east edge of the river bank.

Reference mark 1, a standard disk stamped T8S R22W WS4 PS9 NO 1 1964, is set in the top of a 12-inch round concrete monument that projects 3 inches above the ground surface. It is 36 feet east of the center of the track road, 24 feet north of the north edge of the canal, 1.7 feet north of a metal witness post and about 2 feet higher in elevation than the station.

Reference mark 2, a standard disk stamped T8S R22W WS4 PS9 NO 2 1964, is set in the top of a 12-inch round concrete monument that projects 4 inches above the ground surface. It is 23 feet east of the east edge of the river bank, 8 feet west of the center of the track road, 1.7 feet south of a metal witness post and about the same elevation as the station.

Note: No azimuth mark established at this station.
 Observations were made from a 64 foot tower.

This station was used to locate BDRY. PT. NO. 20 CALIF-ARIZ which lies on the centerline of the Colorado River.

* Refers to notes or manuals of triangulation and state publications of triangulation.
 † To nearest meter only, when no trigonometric leveling is being done.

‡ Direction-angle measured clockwise, referred to initial station.

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

DESCRIPTION OF TRIANGULATION STATION

NAME OF STATION: MISSION STATE: Arizona COUNTY: Yuma
 CHIEF OF PARTY: L. G. Burdine YEAR: 1964 DESCRIBED BY: C. M. Call

Note*	Height of telescope above station mark 1.74 meters, † Height of light above station mark meters.				
1 b 7 a	Surface-station mark, underground-station mark	Distances and directions to azimuth mark, reference marks and prominent objects which can be seen from the ground at the station			
			Distance		
	Object	Bearing	Feet	Meters	Direction‡
	SUGARLOAF 2 (USE) Reference Mark No. 1 T16S R22E S35 S36 Reference Mark No. 2	ESE S WSW	26.32 10.68 33.97	8.022 3.256 10.355	00° 00' 00.0" 57 12 03 119 21 194 51 08

Detailed description:

The station is located at the north edge of the city of Yuma on top of a small, bare, flat-topped, gravel and rock knoll on land of the Yuma Indian Reservation. It is about 0.2 mile south of the buildings of the Government Indian School and the Purisima Conception Mission and on or close to the line between Points 31 and 32 of the Interstate Boundary Compact. The knoll is on the north side of the Colorado River about 80 feet above the water and is cut on its east and north sides by the roadway of old U.S. Highway 80.

To reach the station from the city hall in Yuma, go east on 1st Street to Penitentiary Avenue; turn left and go north on Penitentiary Avenue 0.6 mile to a fork at the north end of the Colorado River bridge. Continue north-west 0.1 mile to the second side road on the left at an old building foundation; turn left and go south 100 feet to steep gravel road up onto knoll and the station.

The station mark is a standard disk stamped MISSION 1964 set in the top of a 12-inch cylindrical concrete monument set flush with the ground. It is 40.6 feet west of the east edge of the bluff and 10.7 feet north of a rock retaining wall.

Reference mark number one is a standard disk stamped MISSION NO 1 1964 cemented in a drill hole flush with the top of a rock retaining wall. It is 5.1 feet west of the east end of the wall, 0.9 foot north of the south edge of the wall, and at the same elevation as the station.

Reference mark number two is a standard disk stamped MISSION NO 2 1964 cemented in a drill hole flush with the top of a rock retaining wall. It is 3.2 feet east of the west end of the wall and at the same elevation as the station.

A General Land Office Survey disk stamped T16S R22E S35 S36 MC WC 49 is cemented in a drill hole flush with the surface of the retaining wall. A distance was measured to the "T" on the disk but it was too close to focus for a closer angle measurement.

This station was used to locate BDRY. PT. NO. 32 CALIF-ARIZ which is in the center of the Colorado River.

* Refers to notes in manuals of triangulation and state publications of triangulation.
 † To nearest meter only, when no trigonometric leveling is being done.

‡ Direction-angle measured clockwise, referred to initial station.

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

DESCRIPTION OF TRIANGULATION STATION

NAME OF STATION: T16S R21E S35 S22 (BLM) STATE: Arizona COUNTY: Yuma
 CHIEF OF PARTY: L. G. Burdine YEAR: 1964 DESCRIBED BY: J.E.F.

Note*	Height of telescope above station mark 3.50 meters, † Height of light above station mark		meters.		
Pipe	Surface-station mark, underground-station mark	Distances and directions to azimuth mark, reference marks and prominent objects which can be seen from the ground at the station			
		Distance			
	Object	Bearing	Feet	Meters	
				Direction‡	
11b	WEST PILOT 1934 Reference mark No. 1 Yuma, Municipal Standpipe (light)	E	57.13	17.414	0° 00' 00.00" 152 23 03
11b	Reference mark No. 2 BDRY MON. NO. 206 U.S.-MEXICO 1910)	E S	6.0 miles 74.05	22.565 403.612	157 50 00.5 268 46 14 329 36 54.5

Detailed description:

The station is about 5 1/2 miles west of Yuma and on the east shore of the Colorado River, 80 feet east of a gauging station.

To reach the station from the Yuma City Hall, go west on 1st street 0.2 mile to 4th Ave.; turn left and go south on 4th Ave. 0.8 mile to 8th street. Turn right and go west on 8th street 5.3 miles to a crossroad; continue west on a gravel road 0.6 mile to a railroad track. Cross the railroad track, then turn right and go northerly on a levee road 0.5 mile to a side road on the left; turn left and go west on a dirt road 0.2 mile to a T-road, two large cottonwood trees on the left and the station west of the intersection.

Station mark is a U.S. Bureau Of Land Management Cadastral Survey Disk stamped T16S, R21E, WC S35, MC S22, T8S, R24W, 61, riveted to a 1 1/2 inch galvanized pipe projecting 8 inches above the surface of the ground. It is 18 feet west of the center of a metal gate, 5.5 feet north of a wire fence, and 5 feet east of a telephone pole.

Reference mark No. 1, a standard disk stamped S35 S22 BLM NO 1 1964, is set in a concrete cylinder 12 inches in diameter and projects 3 inches above the surface of the ground. It is 26 feet southeast of the road intersection, 1 foot southwest of a metal witness post with sign, and 6 inches northwest of a woven wire fence.

Reference mark No. 2, a standard disk stamped S35 S22 BLM NO 2 1964, is set in a concrete cylinder 12 inches in diameter and projects 2 inches above the surface of the ground. It is 10 feet east of the center of a gravel road and 6 inches west of a wire fence.

This station was used to locate BDRY, PT. NO. 34 CALIF-ARIZ which lies on the centerline of the Colorado River.

* Refers to notes in manual of triangulation and wire observations, or to monograph.

† Direction in angle measured clockwise, referred to initial station.

‡ To nearest second, unless otherwise indicated by triangulation leveling instrument.

ADJUSTED HORIZONTAL CONTROL DATA FOR
BOUNDARY POINTS AND FOR BOUNDARY
POINT REFERENCE STATIONS



ADJUSTED HORIZONTAL CONTROL DATA



NAME OF STATION: BDRY REF PT NO 1A

STATE CALIFORNIA-NEVADA YEAR: 1964

SECOND-ORDER

LOCALITY: ARIZONA-CALIFORNIA BOUNDARY

SOURCE: G-13386

FIELD SKETCH: ARIZ 52-I

GEODETIC LATITUDE: 35° 00' 12.45882 GEODETIC LONGITUDE: 114° 38' 03.31001	ELEVATION: METERS FEET
--	---------------------------

STATE COORDINATES (Fm)				
STATE & ZONE	CODE	X	Y	B (OR Δ α) ANGLE
ARIZ. W.	0203	235,184.24	1,457,728.62	- 00° 30' 26"
CALIF. V	0405	3,007,769.35	564,010.62	+ 01° 55' 07"
NEV. E.	2701	784,221.48	93,590.84	+ 00° 32' 40"

TO STATION OR OBJECT	GEODETIC AZIMUTH <i>(From south)</i>	PLANE AZIMUTH <i>(From south)</i>	CODE
BDRY REF PT NO 1B	314° 28' 20.7"	314° 58' 47"	0203
BDRY REF PT NO 1B	314° 28' 20.7"	312° 33' 14"	0405
BDRY REF PT NO 1B	314° 28' 20.7"	313° 55' 41"	2701



ADJUSTED HORIZONTAL CONTROL DATA



NAME OF STATION: BDRY REF PT NO 1B

STATE ARIZONA

YEAR: 1964

SECOND -ORDER

LOCALITY: ARIZONA-CALIFORNIA BOUNDARY

SOURCE: G-13386

FIELD SKETCH: ARIZ 52-1

GEODETIC LATITUDE: 35° 00' 00".12984 GEODETIC LONGITUDE: 114° 37' 48".04945	ELEVATION: METERS FEET
--	--

STATE COORDINATES (Feet)				
STATE & ZONE	CODE	X	Y	θ (OR $\Delta \alpha$) ANGLE
ARIZ. W.	0203	236,442.79	1,456,470.95	- 00° 30' 17"
CALIF. V	0405	3,009,079.90	562,807.45	+ 01° 55' 15"
NEV. E.	2701	785,502.87	92,356.51	+ 00° 32' 49"

TO STATION OR OBJECT	GEODETIC AZIMUTH <i>(From south)</i>	PLANE AZIMUTH <i>(From south)</i>	CODE
BDRY REF PT NO 1A	134° 28' 29.5"	134° 58' 47"	0203
BDRY REF PT NO 1A	134° 28' 29.5"	132° 33' 15"	0405
BDRY REF PT NO 1A	134° 28' 29.5"	133° 55' 41"	2701



ADJUSTED HORIZONTAL CONTROL DATA



NAME OF STATION: DOCK

STATE ARIZONA

YEAR: 1964

SECOND-ORDER

LOCALITY: ARIZONA-CALIFORNIA BOUNDARY

SOURCE: G-13386

FIELD SKETCH: ARIZ 52-1

GEODETTIC LATITUDE 34° 10' 09.30826 GEODETTIC LONGITUDE: 114° 16' 01.35839	ELEVATION: METERS FEET
--	--

STATE COORDINATES (Feet)				
STATE & ZONE	CODE	X	Y	θ (OR Δ α) ANGLE
ARIZ. W.	0203	343,602.04	1,153,368.91	- 00° 17' 25"
CALIF. V	0405	3,128,942.45	264,518.02	+ 02° 07' 40"

TO STATION OR OBJECT	GEODETTIC AZIMUTH <i>(From south)</i>	PLANE AZIMUTH <i>(From south)</i>	CODE
FILL	94° 29' 08.4"	94° 46' 33"	0203
FILL	94° 29' 08.4"	92° 21' 28"	0405



ADJUSTED HORIZONTAL CONTROL DATA



NAME OF STATION: FLAT

STATE: CALIFORNIA

YEAR: 1964

SECOND-ORDER

LOCALITY: ARIZONA-CALIFORNIA BOUNDARY

SOURCE: G-13386

FIELD SKETCH: ARIZ 52-1

GEODETIC LATITUDE: 34° 10' 16.61734"	ELEVATION: METERS
GEODETIC LONGITUDE: 114° 17' 11.37843"	FEET

STATE COORDINATES (Feet)				
STATE & ZONE	CODE	X	Y	θ (OR $\Delta \alpha$) ANGLE
ARIZ. W.	0203	337,722.53	1,154,138.12	- 00° 18' 05"
CALIF. V	0405	3,123,035.66	265,038.47	+ 02° 07' 00"

TO STATION OR OBJECT	GEODETIC AZIMUTH <i>(From south)</i>	PLANE AZIMUTH <i>(From south)</i>	CODE
WATHEN	264° 16' 29.9"	264° 34' 35"	0203
WATHEN	264° 16' 29.9"	262° 09' 30"	0405



ADJUSTED HORIZONTAL CONTROL DATA



NAME OF STATION: KOOL

STATE ARIZONA

YEAR: 1964

SECOND-ORDER

LOCALITY: ARIZONA-CALIFORNIA BOUNDARY

SOURCE: G-13386

FIELD SKETCH: ARIZ 52-II

GEODETIC LATITUDE: 32° 48' 54.14142 GEODETIC LONGITUDE: 114° 30' 25.84327	ELEVATION: METERS FEET
--	--

STATE COORDINATES (Feet)				
STATE & ZONE	CODE	X	Y	θ (OR $\Delta \alpha$) ANGLE
ARIZ. W.	0203	267,370.11	661,071.42	- 00° 24' 37"
CALIF. VI	0406	2,535,452.87	240,380.55	+ 00° 57' 28"

TO STATION OR OBJECT	GEODETIC AZIMUTH <i>(From south)</i>	PLANE AZIMUTH <i>(From south)</i>	CODE
AZIMUTH MARK	267° 22' 18.5"	267° 46' 56"	0203
AZIMUTH MARK	267° 22' 18.5"	266° 24' 51"	0406



ADJUSTED HORIZONTAL CONTROL DATA



NAME OF STATION: MITTRY

STATE CALIFORNIA

YEAR: 1964

SECOND-ORDER

LOCALITY: ARIZONA-CALIFORNIA BOUNDARY

SOURCE: G-13386

FIELD SKETCH: ARIZ 52-II

GEODETIC LATITUDE: 32° 50' 38.49534 GEODETIC LONGITUDE: 114° 28' 06.30594	ELEVATION: METERS FEET
--	--

STATE COORDINATES (Fm)				
STATE & ZONE	CODE	X	Y	θ (OR Δ α) ANGLE
ARIZ. W.	0203	279,350.53	671,534.59	- 00° 23' 23"
CALIF. VI	0406	2,547,180.01	251,126.83	+ 00° 58' 44"

TO STATION OR OBJECT	GEODETIC AZIMUTH <i>(From south)</i>	PLANE AZIMUTH <i>(From south)</i>	CODE
AZIMUTH MARK T155 R24E BLM	177° 45' 28.7"	178° 08' 52"	0203
AZIMUTH MARK T155 R24E BLM	177° 45' 28.7"	176° 46' 45"	0406



ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: REFUGE

STATE CALIFORNIA

YEAR: 1964

SECOND-ORDER

LOCALITY: ARIZONA-CALIFORNIA BOUNDARY

SOURCE: G-13386

FIELD SKETCH: ARIZ 52-1

GEODETIC LATITUDE: 34° 43' 23.99286 GEODETIC LONGITUDE: 114° 29' 32.46678	ELEVATION: METERS FEET
--	--

STATE COORDINATES (Feet)				
STATE & ZONE	CODE	X	Y	θ (OR $\Delta \alpha$) ANGLE
ARIZ. W.	0203	276,926.45	1,355,430.62	- 00° 25' 22"
CALIF. V	0405	3,053,797.17	463,577.27	+ 01° 59' 58"

TO STATION OR OBJECT	GEODETIC AZIMUTH <i>(From south)</i>	PLANE AZIMUTH <i>(From south)</i>	CODE
BREEZE	195° 46' 20.9"	196° 11' 43"	0203
BREEZE	195° 46' 20.9"	193° 46' 23"	0405

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ADJUSTED HORIZONTAL CONTROL DATA

4

NAME OF STATION: SQUAW

STATE ARIZONA

YEAR: 1964

SECOND-ORDER

LOCALITY: ARIZONA-CALIFORNIA BOUNDARY

SOURCE: G-13386

FIELD SKETCH: ARIZ 52-II

GEODETIC LATITUDE: 32° 54' 30.83248 GEODETIC LONGITUDE: 114° 27' 41.36270	ELEVATION: METERS FEET
--	---------------------------

STATE COORDINATES (Feet)				
STATE & ZONE	CODE	X	Y	θ (OR $\Delta \alpha$) ANGLE
ARIZ. W.	0203	281,636.87	695,000.95	- 00° 23' 12"
CALIF. VI	0406	2,548,905.05	274,641.06	+ 00° 58' 58"

TO STATION OR OBJECT	GEODETIC AZIMUTH (From south)	PLANE AZIMUTH (From south)	CODE
IMPERIAL	0° 04' 31.2"	0° 27' 43"	0203
IMPERIAL	0° 04' 31.2"	359° 05' 33"	0406



ADJUSTED HORIZONTAL CONTROL DATA



NAME OF STATION: VIEW

STATE CALIFORNIA

YEAR: 1964

SECOND-ORDER

LOCALITY: ARIZONA-CALIFORNIA BOUNDARY

SOURCE: G-13386

FIELD SKETCH: ARIZ 52-I

GEODETIC LATITUDE: 34° 10' 00.84448	ELEVATION:	METERS
GEODETIC LONGITUDE: 114° 17' 35.21757		FEET

STATE COORDINATES (Feet)				
STATE & ZONE	CODE	X	Y	θ (OR $\Delta \alpha$) ANGLE
ARIZ. W.	0203	335,711.02	1,152,554.35	- 00° 18' 18"
CALIF. V	0405	3,121,092.73	263,371.22	+ 02° 06' 47"

TO STATION OR OBJECT	GEODETIC AZIMUTH (From south)	PLANE AZIMUTH (From south)	CODE
FLAT	231° 28' 47.0"	231° 47' 05"	0203
FLAT	231° 28' 47.0"	229° 22' 00"	0405

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: T16S R21E S35 S22

STATE ARIZONA

YEAR: 1964

SECOND-ORDER

LOCALITY: ARIZONA-CALIFORNIA BOUNDARY

SOURCE: G-13386

FIELD SKETCH: ARIZ 52-11

GEODETTIC LATITUDE: 32° 43' 07.55671 GEODETTIC LONGITUDE: 114° 43' 03.89804	ELEVATION: _____ METERS _____ FEET
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STATE COORDINATES (Fm)				
STATE & ZONE	CODE	X	Y	θ (OR $\Delta \alpha$) ANGLE
ARIZ. W.	0203	202,353.44	626,571.91	- 00° 31' 23"
CALIF. VI	0406	2,471,278.22	204,340.59	+ 00° 50' 31"

TO STATION OR OBJECT	GEODETTIC AZIMUTH <i>(From south)</i>	PLANE AZIMUTH <i>(From south)</i>	CODE
BOUNDARY MONUMENT NO 206	85° 21' 06.6"	85° 52' 30"	0203
BOUNDARY MONUMENT NO 206	85° 21' 06.6"	84° 30' 36"	0406



ADJUSTED HORIZONTAL CONTROL DATA



NAME OF STATION: BDRY PT NO 1 CENTER OF COLORADO RIVER ARIZ-CALIF-NEV

STATE ARIZ-CALIF-NEVADA YEAR: 1893, 1964 THIRD ORDER

LOCALITY: CALIFORNIA-NEVADA BOUNDARY

SOURCE: G-10055, G-13386

FIELD SKETCH: ARIZ 52-1

GEODEIC LATITUDE: 35° 00' 06.43500	ELEVATION: METERS
GEODEIC LONGITUDE: 114° 37' 55.66800	FEET

STATE COORDINATES (Feet)				
STATE & ZONE	CODE	X	Y	θ (OR $\Delta \alpha$) ANGLE
ARIZ. W.	0203	235,814.61	1,457,113.99	+ 00° 30' 22"
CALIF. V	0405	3,008,425.11	563,423.29	+ 01° 55' 11"
NEV. E.	2701	784,863.01	92,987.90	+ 00° 32' 44"

TO STATION OR OBJECT	GEODEIC AZIMUTH <i>(From south)</i>	PLANE AZIMUTH <i>(From south)</i>	CODE
	* * *	* * *	

▽

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: BDRY PT NO 2 ARIZ-CALIF

STATE ARIZONA-CALIFORNIA YEAR: 1964

SECOND ORDER

LOCALITY: ARIZONA-CALIFORNIA BOUNDARY

SOURCE: G-13386

FIELD SKETCH: *

GEODETIC LATITUDE:	34° 43' 28.68990	ELEVATION:	METERS
GEODETIC LONGITUDE:	114 29 24.59080		FEET

STATE COORDINATES (Feet)

STATE & ZONE	CODE	X	Y	θ (OR $\Delta \alpha$) ANGLE
ARIZ W.	0203	277,587.37	1,355,900.62	- 0 25 18
CALIF V	0405	3,054,437.59	464,074.75	+ 2 00 02

TO STATION OR OBJECT	GEODETIC AZIMUTH (From south)	PLANE AZIMUTH (From south)	CODE
This station was determined by photogrammetric methods and is referenced from triangulation station REFUGE (*Ariz. 52-I).			

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: BDRY PT NO 4 ARIZ-CALIF

STATE ARIZONA-CALIFORNIA YEAR: 1964

SECOND-ORDER

LOCALITY: ARIZONA-CALIFORNIA BOUNDARY

SOURCE: G-13386

FIELD SKETCH: ARIZ 52-1

GEODETIC LATITUDE: 34° 42' 59.74271 GEODETIC LONGITUDE: 114° 29' 12.52097	ELEVATION: METERS FEET
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STATE COORDINATES (Feet)				
STATE & ZONE	CODE	X	Y	B (OR Δ α) ANGLE
ARIZ. W. CALIF. V	0203	278,573.42	1,352,966.84	- 00 25 11
	0405	3,055,546.68	461,185.46	+ 02 00 09

TO STATION OR OBJECT	GEODETIC AZIMUTH <i>(From south)</i>	PLANE AZIMUTH <i>(From south)</i>	CODE
Position determined by traverse from station CENTER and checked by additional observations.	* * *	* * *	



ADJUSTED HORIZONTAL CONTROL DATA



NAME OF STATION: BDRY PT NO 6 ARIZ-CALIF

STATE ARIZONA-CALIFORNIA YEAR: 1964

SECOND-ORDER

LOCALITY: ARIZONA-CALIFORNIA BOUNDARY

SOURCE: G-13386

FIELD SKETCH: ARIZ 52-1

NO CHECK ON THIS POSITION

GEODETIC LATITUDE: 34° 17' 47.92195 GEODETIC LONGITUDE: 114° 08' 18.43732	ELEVATION: METERS FEET
--	--

STATE COORDINATES (Feet)				
STATE & ZONE	CODE	X	Y	θ (OR $\Delta \alpha$) ANGLE
ARIZ. W.	0203	382,675.39	1,199,554.50	- 00° 13' 08"
CALIF. V	0405	3,166,031.79	312,312.11	+ 02° 12' 04"

TO STATION OR OBJECT	GEODETIC AZIMUTH <i>(From south)</i>	PLANE AZIMUTH <i>(From south)</i>	CODE
Position determined by traverse from station PARKER DAM.	* * *	* * *	



ADJUSTED HORIZONTAL CONTROL DATA



NAME OF STATION: **EDRY PT NO 7 ARIZ-CALIF**

STATE **ARIZONA-CALIFORNIA** YEAR: **1964**

SECOND-ORDER

LOCALITY: **ARIZONA-CALIFORNIA BOUNDARY**

SOURCE: **G-13386**

FIELD SKETCH: *

GEODETIC LATITUDE: 34 10 13.41020 GEODETIC LONGITUDE: 114 16 05.32480	ELEVATION: METERS FEET
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STATE COORDINATES (Feet)				
STATE & ZONE	CODE	X	Y	θ (OR $\Delta \alpha$) ANGLE
ARIZ W. CALIF V	0203	343,270.87	1,153,785.24	- 0 17 28
	0405	3,128,594.00	264,920.00	+ 2 07 38

TO STATION OR OBJECT	GEODETIC AZIMUTH <i>(From south)</i>	PLANE AZIMUTH <i>(From south)</i>	CODE
This station was determined by photogrammetric methods and is referenced from triangulation station DOCK (*Ariz. 52-I).			

▽ ADJUSTED HORIZONTAL CONTROL DATA ▽

NAME OF STATION: WATHEN = BDRY PT NO B ARIZ-CALIF

STATE ARIZONA-CALIFORNIA YEAR: 1964

SECOND-ORDER

LOCALITY: ARIZONA-CALIFORNIA BOUNDARY

SOURCE: G-13386

FIELD SKETCH: ARIZ 52-1

GEODETTIC LATITUDE: 34° 10' 20.19675 GEODETTIC LONGITUDE: 114° 16' 28.40019	ELEVATION: METERS FEET
--	---------------------------

STATE COORDINATES (Feet)				
STATE & ZONE	CODE	X	Y	θ (OR $\Delta \alpha$) ANGLE
ARIZ. W.	0203	341,335.53	1,154,481.15	- 00 17 41
CALIF. V	0405	3,126,631.00	265,533.64	+ 02 07 25

TO STATION OR OBJECT	GEODETTIC AZIMUTH (From south)	PLANE AZIMUTH (From south)	CODE
BLUFF	269° 31' 40.0	269° 49' 21	0203
BLUFF	269° 31' 40.0	267° 24' 15	0405



ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: HDRY PT NO 10 ARIZ-CALIF

STATE ARIZONA-CALIFORNIA YEAR: 1964

SECOND ORDER

LOCALITY: ARIZONA-CALIFORNIA BOUNDARY

SOURCE: G-13386

FIELD SKETCH: *

GEODETIC LATITUDE: 34° 10' 00".00000 GEODETIC LONGITUDE: 114 17 31.46000	ELEVATION: METERS FEET
---	--

STATE COORDINATES (Feet)				
STATE & ZONE	CODE	X	Y	θ (OR Δ α) ANGLE
ARIZ W. CALIF V	0203 0405	336,026.30 3,121,411.41	1,152,467.31 263,297.57	- 0° 18' 16" + 2 06 49

TO STATION OR OBJECT	GEODETIC AZIMUTH <i>(From south)</i>	PLANE AZIMUTH <i>(From south)</i>	CODE
This station was determined by photogrammetric methods and is referenced from triangulation station VIEW (*Ariz. 52-I).	* * *	* * *	

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: BDRY PT NO 11 ARIZ-CALIF

STATE ARIZONA-CALIFORNIA YEAR: 1964

SECOND-ORDER

LOCALITY: ARIZONA-CALIFORNIA BOUNDARY

SOURCE: G-13386

FIELD SKETCH: ARIZ 52-1

NO CHECK ON THIS POSITION

GEODETTIC LATITUDE: 34° 09' 34.34031 GEODETTIC LONGITUDE: 114° 17' 53.11631	ELEVATION:	METERS FEET
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STATE COORDINATES (Feet)				
STATE & ZONE	CODE	X	Y	θ (OR Δ α) ANGLE
ARIZ. W.	0203	334,192.65	1,149.883.27	- 00° 18' 28"
CALIF. V	0405	3,119,688.40	260,638.44	+ 02° 06' 37"

TO STATION OR OBJECT	GEODETTIC AZIMUTH <i>(From south)</i>	PLANE AZIMUTH <i>(From south)</i>	CODE
Position determined by traverse from station SPAN RM 1.	* * *	* * *	



ADJUSTED HORIZONTAL CONTROL DATA



NAME OF STATION: BDRY PT NO 13 ARIZ-CALIF

STATE ARIZONA-CALIFORNIA YEAR: 1964

SECOND ORDER

LOCALITY: ARIZONA-CALIFORNIA BOUNDARY

SOURCE: G-13386

FIELD SKETCH: ARIZ 52-1

NO CHECK ON THIS POSITION

GEODETIC LATITUDE: 33° 36' 17.31038 GEODETIC LONGITUDE: 114° 31' 48.52488	ELEVATION: METERS FEET
--	--

STATE COORDINATES (Feet)				
STATE & ZONE	CODE	X	Y	θ (OR $\Delta \alpha$) ANGLE
ARIZ. W.	0203	262,456.82	948,479.94	- 00° 25' 55"
CALIF. VI	0406	2,523,657.56	527,579.67	+ 00° 56' 42"

TO STATION OR OBJECT	GEODETIC AZIMUTH <i>(From south)</i>	PLANE AZIMUTH <i>(From south)</i>	CODE
Position determined by traverse from station EHREN.	* * *	* * *	

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: BDRY PT NO 14 ARIZ-CALIF

STATE ARIZONA-CALIFORNIA YEAR: 1964

SECOND-ORDER

LOCALITY: ARIZONA-CALIFORNIA BOUNDARY

SOURCE: G-13386

FIELD SKETCH: ARIZ 52-1

NO CHECK ON THIS POSITION

GEODETTIC LATITUDE: 33° 24' 46.54852	ELEVATION:	METERS
GEODETTIC LONGITUDE: 114° 39' 24.79576		FEET

STATE COORDINATES (Feet)

STATE & ZONE	CODE	X	Y	θ (OR Δ α) ANGLE
ARIZ. W.	0203	223,254.41	878,975.36	- 00° 29' 58"
CALIF. VI	0406	2,486,137.29	457,157.28	+ 00° 52' 32"

TO STATION OR OBJECT	GEODETTIC AZIMUTH <i>(From south)</i>	PLANE AZIMUTH <i>(From south)</i>	CODE
Position determined by traverse from station CIBOLA.	* * *	* * *	

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: BDRY PT NO 15 ARIZ-CALIF

STATE ARIZONA-CALIFORNIA YEAR: 1964

SECOND ORDER

LOCALITY: ARIZONA-CALIFORNIA BOUNDARY

SOURCE: G-13386

FIELD SKETCH: *

GEODETIC LATITUDE: 32° 54' 22.35270 GEODETIC LONGITUDE: 114° 27' 43.15340	ELEVATION: METERS FEET
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STATE COORDINATES (Ft)				
STATE & ZONE	CODE	X	Y	θ (OR Δ α) ANGLE
ARIZ W. CALIF VI	0203	281,478.42	694,144.98	- 0° 23' 12"
	0406	2,548,767.10	273,781.55	+ 0° 58' 57"

TO STATION OR OBJECT	GEODETIC AZIMUTH <i>(From south)</i>	PLANE AZIMUTH <i>(From south)</i>	CODE
This station was determined by photogrammetric methods and is referenced from triangulation station SQUAW (Ariz. 52-II).	.	.	.

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: BDRY PT NO 16 ARIZ-CALIF

STATE ARIZONA-CALIFORNIA YEAR: 1964

SECOND-ORDER

LOCALITY: ARIZONA-CALIFORNIA BOUNDARY

SOURCE: G-13386

FIELD SKETCH: ARIZ 52-II

GEODETIC LATITUDE: 32° 52' 58.82283 GEODETIC LONGITUDE: 114° 27' 50.24197	ELEVATION: _____ METERS _____ FEET
--	---------------------------------------

STATE COORDINATES (Feet)				
STATE & ZONE	CODE	X	Y	θ (OR $\Delta \alpha$) ANGLE
ARIZ. W.	0203	280,816.94	685,707.23	- 00° 23' 16"
CALIF. VI	0406	2,548,307.43	265,330.45	+ 00° 58' 53"

TO STATION OR OBJECT	GEODETIC AZIMUTH <i>(From south)</i>	PLANE AZIMUTH <i>(From south)</i>	CODE
IMPERIAL	275° 12' 42.2"	275° 35' 58"	0203
IMPERIAL	275° 12' 42.2"	274° 13' 49"	0406



ADJUSTED HORIZONTAL CONTROL DATA



NAME OF STATION: BDRY PT NO 17 ARIZ-CALIF

STATE ARIZONA-CALIFORNIA YEAR: 1964

SECOND-ORDER

LOCALITY: ARIZONA-CALIFORNIA BOUNDARY

SOURCE: G-13386

FIELD SKETCH: ARIZ 52-II

GEODETIC LATITUDE: 32° 50' 39.87937 GEODETIC LONGITUDE: 114° 28' 06.22867	ELEVATION: METERS FEET
--	--

STATE COORDINATES (Feet)				
STATE & ZONE	CODE	X	Y	θ (OR $\Delta \alpha$) ANGLE
ARIZ. W.	0203	279,358.06	671,674.42	- 00° 23' 23"
CALIF. VI	0406	2,547,184.20	251,266.81	+ 00° 58' 45"

TO STATION OR OBJECT	GEODETIC AZIMUTH <i>(From south)</i>	PLANE AZIMUTH <i>(From south)</i>	CODE
<p>This boundary point was not marked in the 1964 C&GS survey. The position is at the intersection of the lines normal to the longitudinal axis of the Imperial and Laguna dams. (See description)</p>			

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: BDRY PT NO 18 ARIZ-CALIF

STATE ARIZONA-CALIFORNIA YEAR: 1964

SECOND-ORDER

LOCALITY: ARIZONA-CALIFORNIA BOUNDARY

SOURCE: G-13386

FIELD SKETCH: ARIZ 52-II

GEODETIC LATITUDE: 32° 49' 24.14592 GEODETIC LONGITUDE: 114° 29' 36.00955	ELEVATION: _____ METERS _____ FEET
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STATE COORDINATES (Feet)				
STATE & ZONE	CODE	X	Y	θ (OR Δ α) ANGLE
ARIZ. N.	0203	271,644.46	664,073.58	- 00° 24' 11"
CALIF. VI	0406	2,539,654.32	243,483.90	+ 00° 57' 55"

TO STATION OR OBJECT	GEODETIC AZIMUTH <i>(From south)</i>	PLANE AZIMUTH <i>(From south)</i>	CODE
BDRY REF PT BOLT B LAGUNA DAM	315° 01' 10.0"	315° 25' 21"	0203
BDRY REF PT BOLT B LAGUNA DAM	315° 01' 10.0"	314° 03' 15"	0406



ADJUSTED HORIZONTAL CONTROL DATA



NAME OF STATION: **EDRY PT NO 19 ARIZ-CALIF**

STATE **ARIZONA-CALIFORNIA** YEAR: **1964**

SECOND -ORDER

LOCALITY: **ARIZONA-CALIFORNIA BOUNDARY**

SOURCE: **G-13386**

FIELD SKETCH: *

GEODETIC LATITUDE: 32° 48' 58.07760 GEODETIC LONGITUDE: 114 30 36.22870	ELEVATION: METERS FEET
--	---

STATE COORDINATES (Fm)				
STATE & ZONE	CODE	X	Y	θ (OR $\Delta \alpha$) ANGLE
ARIZ W. CALIF VI	0203	266,486.64	661,475.58	- 0 24 43
	0406	2,534,560.00	240,763.50	+ 0 57 22

TO STATION OR OBJECT	GEODETIC AZIMUTH <i>(From south)</i>	PLANE AZIMUTH <i>(From south)</i>	CODE
This station was determined by photogrammetric methods and is referenced from triangulation station KOOL (*Ariz. 52-II).	* * *	* * *	

▽

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: **EDRY PT NO 20 ARIZ-CALIF**

STATE **ARIZONA-CALIFORNIA** YEAR: **1964**

SECOND ORDER

LOCALITY: **ARIZONA-CALIFORNIA BOUNDARY**

SOURCE: **G-13386**

FIELD SKETCH: *

GEODETIC LATITUDE: 32° 45' 25.78660 GEODETIC LONGITUDE: 114° 31' 33.33340	ELEVATION: METERS FEET
--	--

STATE COORDINATES (Feet)				
STATE & ZONE	CODE	X	Y	θ (OR Δ α) ANGLE
ARIZ W. CALIF VI	0203 0406	261,455.78 2,530,041.79	640,056.34 219,230.23	- 0° 25' 12" + 0° 56' 51"

TO STATION OR OBJECT	GEODETIC AZIMUTH <i>(From south)</i>	PLANE AZIMUTH <i>(From south)</i>	CODE
This station was determined by photogrammetric methods and is referenced from triangulation station T8S R22W WS4 PS9 (* Ariz. 52-II).	* * *	* * *	



ADJUSTED HORIZONTAL CONTROL DATA



NAME OF STATION: BDRY PT NO 21 BLM ARIZ-CALIF

STATE ARIZONA-CALIFORNIA YEAR: 1964

SECOND-ORDER

LOCALITY: ARIZONA-CALIFORNIA BOUNDARY

SOURCE: G-13386

FIELD SKETCH: ARIZ 52-II

GEODETIC LATITUDE: 32° 45' 25.34781 GEODETIC LONGITUDE: 114° 32' 17.55283	ELEVATION: METERS FEET
---	--

STATE COORDINATES (Fm)				
STATE & ZONE	CODE	X	Y	θ (OR Δ α) ANGLE
ARIZ. W.	0203	257,679.12	640,039.89	- 00° 25' 35"
CALIF. VI	0406	2,526,266.58	219,123.67	+ 00° 56' 26"

TO STATION OR OBJECT	GEODETIC AZIMUTH <i>(From south)</i>	PLANE AZIMUTH <i>(From south)</i>	CODE
BDRY PT NO 22 BLM ARIZ-CALIF	0° 00' 45.0"	0° 26' 20"	0203
BDRY PT NO 22 BLM ARIZ-CALIF	0° 00' 45.0"	359° 04' 19"	0406



ADJUSTED HORIZONTAL CONTROL DATA



NAME OF STATION: BDRY PT NO 22 BLM ARIZ-CALIF

STATE ARIZONA-CALIFORNIA YEAR: 1964

SECOND-ORDER

LOCALITY: ARIZONA-CALIFORNIA BOUNDARY

SOURCE: G-13386

FIELD SKETCH: ARIZ 52-11

GEODETIC LATITUDE: 32° 44' 59.36240 GEODETIC LONGITUDE: 114° 32' 17.55954	ELEVATION: METERS FEET
--	--

STATE COORDINATES (Feet)				
STATE & ZONE	CODE	X	Y	θ (OR Δ α) ANGLE
ARIZ. W. CALIF. VI	0203	257,658.99	637,413.75	- 00° 25' 35"
	0406	2,526,309.12	216,497.79	+ 00° 56' 26"

TO STATION OR OBJECT	GEODETIC AZIMUTH <i>(From south)</i>	PLANE AZIMUTH <i>(From south)</i>	CODE
BDRY PT NO 21 BLM ARIZ-CALIF	180° 00' 45.0"	180° 26' 20"	0203
BDRY PT NO 21 BLM ARIZ-CALIF	180° 00' 45.0"	179° 04' 19"	0406



ADJUSTED HORIZONTAL CONTROL DATA



NAME OF STATION: BDRY PT NO 23 GLO ARIZ-CALIF

STATE ARIZONA-CALIFORNIA YEAR: 1964

SECOND-ORDER

LOCALITY: ARIZONA-CALIFORNIA BOUNDARY

SOURCE: G-13386

FIELD SKETCH: ARIZ 52-II

GEODETIC LATITUDE: 32° 44' 58.63083 GEODETIC LONGITUDE: 114° 33' 49.33745	ELEVATION: METERS FEET
--	---------------------------

STATE COORDINATES (Feet)				
STATE & ZONE	CODE	X	Y	θ (OR $\Delta \alpha$) ANGLE
ARIZ. W.	0203	249,819.94	637,399.10	- 00° 26' 25"
CALIF. VI	0406	2,518,472.62	216,296.13	+ 00° 55' 36"

TO STATION OR OBJECT	GEODETIC AZIMUTH (From south)	PLANE AZIMUTH (From south)	CODE
POLE	0° 29' 08.0"	0° 55' 33"	0203
POLE	0° 29' 08.0"	359° 33' 32"	0406



ADJUSTED HORIZONTAL CONTROL DATA



NAME OF STATION: BDRY PT NO 24 GLO ARIZ-CALIF

STATE ARIZONA-CALIFORNIA YEAR: 1964

SECOND-ORDER

LOCALITY: ARIZONA-CALIFORNIA BOUNDARY

SOURCE: G-12386

FIELD SKETCH: ARIZ 52-11

NO CHECK ON THIS POSITION

GEODETIC LATITUDE: 32° 44' 32.51389	ELEVATION: METERS
GEODETIC LONGITUDE: 114° 33' 49.32668	FEET

STATE COORDINATES (Feet)				
STATE & ZONE	CODE	X	Y	θ (OR $\Delta \alpha$) ANGLE
ARIZ. W.	0203	249,800.58	634,759.66	- 00° 26' 24"
CALIF. VI	0406	2,518,516.23	213,656.98	+ 00° 55' 36"

TO STATION OR OBJECT	GEODETIC AZIMUTH <i>(From south)</i>	PLANE AZIMUTH <i>(From south)</i>	CODE
Position determined by traverse from station POLE.	* * *	* * *	



ADJUSTED HORIZONTAL CONTROL DATA



NAME OF STATION: BDRY PT NO 25 GLO ARIZ-CALIF

STATE ARIZONA-CALIFORNIA YEAR: 1964

SECOND-ORDER

LOCALITY: ARIZONA-CALIFORNIA BOUNDARY

SOURCE: G-13306

FIELD SKETCH: ARIZ 52-II

NO CHECK ON THIS POSITION

GEODETIC LATITUDE: 32° 44' 32.49666 GEODETIC LONGITUDE: 114° 34' 51.19491	ELEVATION: METERS FEET
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STATE COORDINATES (Feet)				
STATE & ZONE	CODE	X	Y	θ (OR $\Delta \alpha$) ANGLE
ARIZ. W.	0203	244,516.13	634,798.94	- 00° 26' 58"
CALIF. VI	0406	2,513,232.34	213,570.21	+ 00° 55' 02"

TO STATION OR OBJECT	GEODETIC AZIMUTH <i>(From south)</i>	PLANE AZIMUTH <i>(From south)</i>	CODE
Position determined by traverse from station COB.	* * *	* * *	

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: BDRY PT NO 26 BLM ARIZ-CALIF

STATE ARIZONA-CALIFORNIA YEAR: 1964

SECOND-ORDER

LOCALITY: ARIZONA-CALIFORNIA BOUNDARY

SOURCE: G-13386

FIELD SKETCH: ARIZ 52-II

GEODETIC LATITUDE: 32° 44' 06.37650 GEODETIC LONGITUDE: 114° 34' 51.17812	ELEVATION: _____ METERS _____ FEET
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STATE COORDINATES (Feet)				
STATE & ZONE	CODE	X	Y	θ (OR $\Delta \alpha$) ANGLE
ARIZ. W.	0203	244,496.86	632,159.17	- 00° 26' 58"
CALIF. VI	0406	2,513,276.04	210,930.72	+ 00° 55' 02"

TO STATION OR OBJECT	GEODETIC AZIMUTH <i>(From south)</i>	PLANE AZIMUTH <i>(From south)</i>	CODE
COB	179° 58' 40.4"	180° 25' 38"	0203
COB	179° 58' 40.4"	179° 03' 38"	0406



ADJUSTED HORIZONTAL CONTROL DATA



NAME OF STATION: BDRY PT NO 27 BLM ARIZ-CALIF

STATE: ARIZONA-CALIFORNIA YEAR: 1964

SECOND-ORDER

LOCALITY: ARIZONA-CALIFORNIA BOUNDARY

SOURCE: G-13386

FIELD SKETCH: ARIZ 52-II

GEODETIC LATITUDE: 32° 44' 04".09639 GEODETIC LONGITUDE: 114° 36' 51".47272	ELEVATION: METERS FEET
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STATE COORDINATES (Feet)				
STATE & ZONE	CODE	X	Y	θ (OR $\Delta \alpha$) ANGLE
ARIZ. W.	0203	234,219.23	632,010.94	- 00° 28' 03"
CALIF. VI	0406	2,503,004.89	210,537.46	+ 00° 53' 56"

TO STATION OR OBJECT	GEODETIC AZIMUTH <i>(From south)</i>	PLANE AZIMUTH <i>(From south)</i>	CODE
BDRY PT NO 26 BLM ARIZ-CALIF	268° 42' 22".8	269° 10' 26"	0203
BDRY PT NO 26 BLM ARIZ-CALIF	268° 42' 22".8	267° 48' 27"	0406

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: BDRY PT NO 28 BLM ARIZ-CALIF

STATE ARIZONA-CALIFORNIA YEAR: 1964

SECOND-ORDER

LOCALITY: ARIZONA-CALIFORNIA BOUNDARY

SOURCE: G-13386

FIELD SKETCH: ARIZ 52-11

GEODETIC LATITUDE: 32° 43' 57.11177 GEODETIC LONGITUDE: 114° 36' 50.73949	ELEVATION: _____ METERS _____ FEET
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STATE COORDINATES (Feet)				
STATE & ZONE	CODE	X	Y	θ (OR $\Delta \alpha$) ANGLE
ARIZ. W.	0203	234,276.11	631,304.55	- 00° 28' 02"
CALIF. VI	0406	2,503,078.59	209,832.63	+ 00° 53' 56"

TO STATION OR OBJECT	GEODETIC AZIMUTH (From south)	PLANE AZIMUTH (From south)	CODE
DELTA USGS	214° 37' 53.4"	215° 05' 55"	0203
DELTA USGS	214° 37' 53.4"	213° 43' 57"	0406



ADJUSTED HORIZONTAL CONTROL DATA



NAME OF STATION: BDRY PT ND 30 ARIZ-CALIF

STATE ARIZONA-CALIFORNIA YEAR: 1964

SECOND-ORDER

LOCALITY: ARIZONA-CALIFORNIA BOUNDARY

SOURCE: G-13386

FIELD SKETCH: ARIZ 52-II

GEODETIC LATITUDE: 32° 43' 47.74195 GEODETIC LONGITUDE: 114° 36' 53.13628	ELEVATION: METERS FEET
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STATE COORDINATES (Feet)				
STATE & ZONE	CODE	X	Y	θ (OR $\Delta \alpha$) ANGLE
ARIZ. W.	0203	234,063.64	630,359.28	- 00 28 03
CALIF. VI	0406	2,502,888.71	208,882.58	+ 00 53 55

TO STATION OR OBJECT	GEODETIC AZIMUTH <i>(From south)</i>	PLANE AZIMUTH <i>(From south)</i>	CODE
	* * *	* * *	

▽ ADJUSTED HORIZONTAL CONTROL DATA ▽

NAME OF STATION: BDRY PT NO 31 BLM ARIZ-CALIF

STATE ARIZONA-CALIFORNIA YEAR: 1964

SECOND-ORDER

LOCALITY: ARIZONA-CALIFORNIA BOUNDARY

SOURCE: G-13385

FIELD SKETCH: ARIZ 52-II

GEODETIC LATITUDE: 32° 43' 47.74164 GEODETIC LONGITUDE: 114° 36' 54.06545	ELEVATION: METERS FEET
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STATE COORDINATES (Feet)				
STATE & ZONE	CODE	X	Y	θ (OR $\Delta \alpha$) ANGLE
ARIZ. W.	0203	233,984.26	630,359.90	- 00° 28' 04"
CALIF. VI	0406	2,502,809.34	208,881.29	+ 00° 53' 54"

TO STATION OR OBJECT	GEODETIC AZIMUTH (From south)	PLANE AZIMUTH (From south)	CODE
BDRY PT NO 33 ARIZ-CALIF	84° 55' 49.5"	85° 23' 54"	0203
BDRY PT NO 33 ARIZ-CALIF	84° 55' 49.5"	84° 01' 56"	0406



ADJUSTED HORIZONTAL CONTROL DATA

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NAME OF STATION: EDRY PT NO 32 ARIZ-CALIF

STATE ARIZONIA-CALIFORNIA YEAR: 1964

SECOND ORDER

LOCALITY: ARIZONIA-CALIFORNIA BOUNDARY

SOURCE: G-13385

FIELD SKETCH: *

GEODETIC LATITUDE: 32° 43' 42.43660 GEODETIC LONGITUDE: 114° 36' 54.21480	ELEVATION: METERS FEET
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STATE COORDINATES (Feet)				
STATE & ZONE	CODE	X	Y	θ (OR Δ α) ANGLE
ARIZ W. CALIF VI	0203 0406	233,967.12 2,502,805.00	629,823.86 208,345.00	- 0 28 04 + 0 53 54

TO STATION OR OBJECT	GEODETTIC AZIMUTH <i>(From south)</i>	PLANE AZIMUTH <i>(From south)</i>	CODE
This station was determined by photogrammetric methods and is referenced from triangulation station MISSION (*Ariz. 52-II).	* * *	* * *	

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: BDRY PT NO 33 ARIZ-CALIF

STATE ARIZONA-CALIFORNIA YEAR: 1964

SECOND-ORDER

LOCALITY: ARIZONA-CALIFORNIA BOUNDARY

SOURCE: G-13386

FIELD SKETCH: ARIZ 52-11

GEODETIC LATITUDE: 32° 43' 45.37941 GEODETIC LONGITUDE: 114° 37' 25.55221	ELEVATION: METERS FEET
--	--

STATE COORDINATES (Feet)				
STATE & ZONE	CODE	X	Y	θ (OR $\Delta \alpha$) ANGLE
ARIZ. W.	0203	231,292.48	630,143.24	- 00 28 21
CALIF. VI	0406	2,500,123.51	208,600.51	+ 00 53 37

TO STATION OR OBJECT	GEODETIC AZIMUTH <i>(From south)</i>	PLANE AZIMUTH <i>(From south)</i>	CODE
MISSION	271 34 15.0	272 02 36	0203
MISSION	271 34 15.0	270 40 38	0406



ADJUSTED HORIZONTAL CONTROL DATA



NAME OF STATION: EDRY PT NO 34 ARIZ-CALIF

STATE ARIZONIA-CALIFORNIA YEAR: 1964

SECOND ORDER

LOCALITY: ARIZONIA-CALIFORNIA BOUNDARY

SOURCE: G-13386

FIELD SKETCH: *

GEODETIC LATITUDE: 32 43 07.28790 GEODETIC LONGITUDE: 114 43 07.35030	ELEVATION:	METERS FEET
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STATE COORDINATES (Feet)				
STATE & ZONE	CODE	X	Y	B (OR Δ α) ANGLE
ARIZ W. CALIF VI	0203 0406	202,058.22 2,470,983.68	626,547.44 204,309.08	- 0 31 25 + 0 50 29

TO STATION OR OBJECT	GEODETIC AZIMUTH <i>(From south)</i>	PLANE AZIMUTH <i>(From south)</i>	CODE
<p>This station was determined by photogrammetric methods and is referenced from triangulation stations T16S R21E S35 S22 and BOUNDARY MONUMENT NO 206 CALIF-MEXICO (*Ariz. 52-II).</p>	

COLORADO RIVER BOUNDARY COMMISSION OF ARIZONA

CERTIFICATION OF CONFORMITY OF SURVEY AND
BOUNDARY DESCRIPTION

WHEREAS, the Interstate Compact executed between the States of Arizona and California, as set forth in Arizona Session Laws 1963, Chapter 77, fixes by reference to stations of latitude and longitude the location of the boundary line between Arizona and California on the Colorado River from the southern boundary of the State of Nevada to the point on the international boundary which is common to the boundaries of Arizona and California and the United Mexican States; and

WHEREAS, said Compact provides that said boundary shall be in accordance with a description in general terms of 34 points on the boundary and that said 34 points will be marked on the existing bridges and dams and where appropriate will be monumented, and that between each of these 34 points there will be a number of subpoints not monumented, and that the total number of points and subpoints will approximate 234; and

WHEREAS, said Compact does further provide that the United States Coast and Geodetic Survey will locate the above-mentioned 34 points on the boundary by precise geodetic surveys and will locate the remaining approximately 200 unmonumented subpoints by precise photogrammetric methods and will provide a list of the geographic positions and state coordinate positions (Transverse Mercator projection for Arizona and Lambert conformal conic projection for California) of each of the 234 points on the boundary; and does further provide that the approximately 200 unmonumented subpoints will be identified on copies of the aerial photographs to define the boundary; and that the said Coast and Geodetic Survey will then locate the points so identified by analytic aerotriangulation (photogrammetric methods);

NOW, THEREFORE, the Colorado River Boundary Commission of Arizona hereby certifies that the survey and boundary description has been completed by the United States Coast and Geodetic Survey and contains 215 unmonumented subpoints which are identified on copies of the aerial photographs, and that the total number of points and subpoints are 249, and that it is in conformity with the general description of the boundary between Arizona and California set forth in Article II of the INTERSTATE COMPACT DEFINING THE BOUNDARY BETWEEN THE STATES OF ARIZONA AND CALIFORNIA; and, when said survey and boundary description has been similarly certified by the Colorado River Boundary Commission of California, it is ordered that this Certification be attached to the aforesaid survey and boundary description, which said survey and boundary description (with said Certifications attached thereto) shall thereupon be marked Exhibit "A" and affixed to the said INTERSTATE COMPACT DEFINING THE BOUNDARY BETWEEN THE STATES OF ARIZONA AND CALIFORNIA.

I certify that the foregoing is a full, true and correct copy of a Certification duly adopted by the Colorado River Boundary Commission of Arizona at its meeting held on November 23, 1965, at which a quorum was present and acting.

/s/ OBED M. LASSEN

OBED M. LASSEN, Chairman, Colorado River
Boundary Commission of Arizona

COLORADO RIVER BOUNDARY COMMISSION OF CALIFORNIA

CERTIFICATION OF CONFORMITY OF SURVEY AND
BOUNDARY DESCRIPTION

WHEREAS, the Interstate Compact executed between the States of Arizona and California, as set forth in Chapter 3.5, Division 1, Title 1, California Government Code, fixes by reference to stations of latitude and longitude the location of the boundary line between Arizona and California on the Colorado River from the southern boundary of the State of Nevada to the point on the international boundary which is common to the boundaries of Arizona and California and the United Mexican States; and

WHEREAS, said Compact provides that said boundary shall be in accordance with a description in general terms of 34 points on the boundary and that said 34 points will be marked on existing bridges and dams and, where appropriate, will be monumented and that between each of these 34 points there will be a number of subpoints not monumented and that the total number of points and subpoints will approximate 234; and

WHEREAS, said Compact does further provide that the United States Coast and Geodetic Survey will locate the above-mentioned 34 points on the boundary by precise geodetic surveys and will locate the remaining approximately 200 unmonumented subpoints by precise photogrammetric methods and will provide a list of the geographic positions and state coordinate positions (Transverse Mercator projection for Arizona and Lambert conformal conic projection for California) of each of the 234 points on the boundary; and does further provide that the approximately 200 unmonumented subpoints will be identified on copies of the aerial photographs to define the boundary; and that the said Coast and Geodetic Survey will then locate the points so identified by analytic aerotriangulation (photogrammetric methods);

NOW, THEREFORE, the Colorado River Boundary Commission of California hereby certifies that the survey and boundary description has been completed by the United States Coast and Geodetic Survey and contains 215 unmonumented subpoints which are identified on copies of the aerial photographs, and that the total number of points and subpoints are 249, and that it is in conformity with the general description of the boundary between Arizona and California set forth in Article 2 of the INTERSTATE COMPACT DEFINING THE BOUNDARY BETWEEN THE STATES OF ARIZONA AND CALIFORNIA; and, when said survey and boundary description has been similarly certified by the Colorado River Boundary Commission of Arizona, it is ordered that this Certification be attached to the aforesaid survey and boundary description, which said survey and boundary description (with said Certifications attached thereto) shall thereupon be marked Exhibit "A" and affixed to the said INTERSTATE COMPACT DEFINING THE BOUNDARY BETWEEN THE STATES OF ARIZONA AND CALIFORNIA.

I certify that the foregoing is a full, true and correct copy of a Certification duly adopted by the Colorado River Boundary Commission of California at its meeting held on November 15, 1965, at which a quorum was present and acting.

s. F. J. HORTIG

F. J. HORTIG, *Chairman,*
Colorado River Boundary
Commission of California

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