



Base prepared by the Army Map Service (FGS), Corps of Engineers, U. S. Army, Washington, D. C. Compiled in 1954 by photogrammetric methods and from United States Quadrangles, Arizona, 1:48,000, U. S. Geological Survey, Grand Canyon National Park, 1923-1936, Jacob Lake, 1936. Planimetric detail revised by photo-stereometric methods. Control by USGS and US&GS. Photography field annotated, 1953.

100,000-FOOT PLANE COORDINATE GRID TICK SYMBOLS
— ARIZONA WEST — ARIZONA CENTRAL

INDEX TO COUNTY BOUNDARIES
(See county designations list for county identification)

PLANE COORDINATE ZONES
ARIZONA WEST ARIZONA CENTRAL

HORIZONTAL CONTROL

Geological Survey

- Monumented Point - First Order
- Monumented Point - Second Order
- Monumented Point - Third Order
- Located Object - Third Order
- See separate index for names of numbered stations
- Station reported not recovered
- Measured Base - Electronic or Taped
- Line of triangulation observed
- Line of triangulation observed from one end only
- Measured Length - Electronic or Taped
- Theodolite Traverse - Electronic Distance
- Transit Traverse - Taped Distance - Third Order
- Transit Traverse and Leveling - Third Order

VERTICAL CONTROL

Coast & Geodetic Survey

- First Order
- Second Order
- Third Order

Geological Survey

STATE SURVEY CONTROL

- Horizontal or Vertical

Scale 1:250,000
0 5 10 15 20 25 30 Statute Miles
0 5 10 15 20 25 30 Kilometers

SECTIONIZED TOWNSHIP

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

TRANSVERSE MERCATOR PROJECTION

TOWNSHIP OR RANGE LINE
LAND GRANT BOUNDARY

LEGEND

ROADS
ROAD DATA 1953

- 2 LANE 4 LANE
- Standard gauge
- Narrow gauge
- Interurbans
- State
- County
- Park or Recreation

RAILROADS
Single track Double or Multiple

Landmarks: School Church Other

Horizontal control point

Spot elevation in feet

Marsh or swamp

Intermittent or dry stream

Power line

COAST AND GEODETIC SURVEY
THIRTY MINUTE QUADRANGLE DESIGNATION

INDEX TO COUNTY BOUNDARIES

36 113 4	36 113 1	36 112 4	36 112 1
36 113 3	36 113 2	36 112 3	36 112 2

ARIZONA WEST ARIZONA CENTRAL

GEOLOGICAL SURVEY
FIFTEEN MINUTE QUADRANGLE DESIGNATION

ARIZONA

419	Bright Angel	464	Jock Lake
420	Shoshone	465	Big Springs
421	Catastrophe Canyon No. 3	466	Jumpup Canyon
422	Catastrophe Canyon No. 4	467	Heaton Knolls
423	Mt. Logan No. 4	468	Horseshoe Cliffs No. 4
424	Mt. Logan No. 3	469	Horseshoe Cliffs No. 3
425	Mt. Delienbaugh No. 4	470	Linnbrook No. 4
426	Mt. Delienbaugh No. 3	471	Cave Springs
427	Grand Canyon No. 1	472	House Rock Spring
428	Powell Plateau	473	Shinarump
429	Catastrophe Canyon No. 1	474	Fredonia
430	Catastrophe Canyon No. 2	475	Shoshone Creek
431	Mt. Logan No. 1	476	Long Spring Mts.
432	Mt. Logan No. 2	477	Horseshoe Cliffs No. 2
433	Mt. Delienbaugh No. 1	478	Wolf Hole Mts.
434	Mt. Delienbaugh No. 2	479	Littlefield

ARIZONA (Cont.)

ORDER CONTROL DATA IN BLACK BY 30 MINUTE QUADRANGLE UNITS FROM DIRECTOR, COAST AND GEODETIC SURVEY, WASHINGTON 25, D. C.

ORDER CONTROL DATA IN RED BY 15 MINUTE QUADRANGLE UNITS FROM DIRECTOR, GEOLOGICAL SURVEY, WASHINGTON 25, D. C.

GRAND CANYON, ARIZONA (NJ 12-10)
FEBRUARY 1964

U. S. DEPT. OF COMMERCE
COAST AND GEODETIC SURVEY
WASHINGTON, D. C.
FORM - 6471 (1-63)
DATE SEPT 1964

INDEX TO
NUMBERED HORIZONTAL CONTROL STATIONS
by the
Coast and Geodetic Survey

QUADS 361121-2-3-4 & 361131-2-3-4
ARIZ
LATITUDE 36° 00' TO 37° 00'
LONGITUDE 112° 00' TO 114° 00'
DIAGRAM NJ 12-10 GRAND CANYON

KEY NO.	STATION NAME	QUAD. NO.	STATION NO.
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1. GRAND CANYON ELTOVAR HOTEL, SMOKE STACK (LOST)
GRAND CANYON, ELTOVAR HOTEL, GABLE
GRAND CANYON, POWER PLANT, STACK
GRAND CANYON, WATER TANK
2. LOS ANGELES-SALT LAKE CITY, AIRWAY BEACON 34

KEY NO.	STATION NAME	QUAD. NO.	STATION NO.
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