



Base prepared by the Army Map Service (USMA), Corps of Engineers, U. S. Army, Washington, D. C. Completed in 1955 by photogrammetric methods and from United States Quadrangles, 1:62,500, USGS, 1927-50; Sectional Aeronautical Chart, 1:500,000, AGC, Phoenix, 1954. Ready in Mexico added from Map of Sonora, State, 1:500,000, Direccion Geografica, Meteorologica e Hidrologica, Sheet 3 of 4, 1915. Planimetric detail revised by photogrammetric methods. Horizontal and vertical control by USGS and USC&GS. Photography field annotated 1953. Road classification in Mexico should be referred to with extreme caution.

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

INDEX TO COUNTY BOUNDARIES
 (See County Designations list for county identification)

WASHINGTON

PLANE COORDINATE ZONES
 ARIZONA CENTRAL ARIZONA WEST

HORIZONTAL CONTROL

- | | | | |
|------------------------------------|--------------------------|-----------------------|---|
| Coast & Geodetic Survey | Geological Survey | Other Agencies | Monumented Point - First Order |
| Coast & Geodetic Survey | Geological Survey | Other Agencies | Monumented Point - Second Order |
| Coast & Geodetic Survey | Geological Survey | Other Agencies | Monumented Point - Third Order |
| Coast & Geodetic Survey | Geological Survey | Other Agencies | Located Object - Third Order |
| Coast & Geodetic Survey | Geological Survey | Other Agencies | See separate index for names of numbered stations |
| Coast & Geodetic Survey | Geological Survey | Other Agencies | Station reported not recovered |
| Coast & Geodetic Survey | Geological Survey | Other Agencies | Measured Base - Electronic or Taped |
| Coast & Geodetic Survey | Geological Survey | Other Agencies | Line of triangulation observed |
| Coast & Geodetic Survey | Geological Survey | Other Agencies | Line of triangulation observed from one end only |
| Coast & Geodetic Survey | Geological Survey | Other Agencies | Measured Length - Electronic or Taped |
| Coast & Geodetic Survey | Geological Survey | Other Agencies | Theodolite Traverse - Electronic Distance |
| Coast & Geodetic Survey | Geological Survey | Other Agencies | Transit Traverse - Taped Distance Third Order |
| Coast & Geodetic Survey | Geological Survey | Other Agencies | Transit Traverse and Levelling Third Order |

VERTICAL CONTROL

- | | | | |
|------------------------------------|--------------------------|-----------------------|--------------|
| Coast & Geodetic Survey | Geological Survey | Other Agencies | First Order |
| Coast & Geodetic Survey | Geological Survey | Other Agencies | Second Order |
| Coast & Geodetic Survey | Geological Survey | Other Agencies | Third Order |
- STATE SURVEY CONTROL**
 Horizontal or Vertical
- CODE OF OTHER AGENCIES**
 Geodetic control established by other agencies, shown in brown, may be obtained from Coast and Geodetic Survey, Environmental Science Services Administration, Rockville, Maryland 20852.

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
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	36

TOWNSHIP OR RANGE LINE
 LAND GRANT BOUNDARY

LOCATION DIAGRAM FOR NI 12-10

- LEGEND**
 ROAD DATA 1953
- | | | | |
|--------------------------------------|---------------------------------|------------------------------------|----------------------------|
| ROADS | RAILROADS | BOUNDARIES | LANDMARKS |
| Hard surface, heavy duty | Single track Double or Multiple | Standard gauge | School; Church; Other |
| More than two lanes wide | Standard gauge | Narrow gauge | Spot elevation in feet |
| Two lanes wide; Federal route marker | International | Two lanes wide; State route marker | Horizontal control point |
| Hard surface, medium duty | County | More than two lanes wide | Spot elevation in feet |
| Two lanes wide | Park or reservation | Improved light duty | Marsh or swamp |
| Unimproved dirt | | Unimproved dirt | Intermittent or dry stream |
| | | Trail | Power line |

COAST AND GEODETIC SURVEY
 THIRTY MINUTE QUADRANGLE DESIGNATION

32 113 4	32 113 1	32 112 4	32 112 1
32 113 3	32 113 2	32 112 3	32 112 2

INDEX TO COUNTY BOUNDARIES

1	2	3	4
ARIZONA	ARIZONA	ARIZONA	ARIZONA
1	2	3	4
32 113 3	32 113 2	32 112 3	32 112 2

ORDER CONTROL DATA, SHOWN IN BLACK OR BROWN, BY 30 MINUTE QUADRANGLE UNITS FROM COAST AND GEODETIC SURVEY, ESSA, ROCKVILLE, MARYLAND 20852.

COUNTY DESIGNATIONS

- Yuma
- Maricopa
- Pima
- Pinal

INDEX TO COUNTY BOUNDARIES

1	2	3	4
ARIZONA	ARIZONA	ARIZONA	ARIZONA
1	2	3	4
32 113 3	32 113 2	32 112 3	32 112 2

ORDER CONTROL DATA, SHOWN IN RED, BY 15 MINUTE QUADRANGLE UNITS FROM DIRECTOR, GEOLOGICAL SURVEY, WASHINGTON, D.C. 20242.

GEOLOGICAL SURVEY
 FIFTEEN MINUTE QUADRANGLE DESIGNATION

55	56	57	58	59	60	61	62	63	64
65	66	67	68	69	70	71	72	73	74
75	76	77	78	79	80	81	82	83	84
85	86	87	88	89	90	91	92	93	94

- | | | | |
|----|--------------------|-----|---------------|
| 55 | Quartz Mts. | 99 | Yuma Mts. |
| 56 | Pinalon | 100 | Kata |
| 57 | Mount Air | 101 | Hot Mountain |
| 58 | King Peak | 102 | Mohave |
| 59 | Agua Dulce Mts. | 103 | Cholla Valley |
| 60 | O'Neil Hills | 104 | Agua Mts. |
| 61 | Sierra Anita | 105 | San Jacinto |
| 62 | Tue Mts. | 106 | Hotchkiss |
| 63 | Guano | 107 | Antelope Peak |
| 64 | Cameron Peak | 108 | Estancia |
| 65 | Short Chaco Mts. | 109 | Gila Bend |
| 66 | Cholla | 110 | Thurston |
| 67 | Quartz Peak | 111 | Sanford |
| 68 | Gila Mts. | 112 | Atlatl |
| 69 | Isa Pinta | 113 | Stovall |
| 70 | Catena Prieta Peak | 114 | Root |

USCMB ESSA DC AUG 1969 A541

U. S. DEPT. OF COMMERCE
 COAST AND GEODETIC SURVEY
 WASHINGTON, D. C.
 FORM - 6471 (1-63)
 DATE JUL 1969

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

PAGE 1
 QUADS 321121-2-3-4 & 321131-2-3-4
 ARIZ
 LATITUDE 32°00' TO 33°00'
 LONGITUDE 112°00' TO 114°00'
 DIAGRAMNI 12-10 AJO

KEY NO.	STATION NAME	QUAD. NO.	STATION NO.
1	AJO PHELPS & DODGE CORP COPPER SMELT STACK	321123	1022
2	J C GREENWAY MEMORIAL CROSS	321123	1023
3	ARIZONA HIGHWAY DEPARTMENT MARK NEAR THEBA	321124	1005
4	AZTEC TANK	321131	1024
4	AGUIL RM NO 1 AHD	321131	1005
4	AGUIL RM NO 2 AHD	321131	1005
5	BOUNDARY RM 3	321131	1009
5	3136&44.24 3136&69.72 551.08 AHD	321131	1009
6	BENCH MARK U 321	321131	1004
6	2674&50.0 483.08 AHD	321131	1004

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