



V502, EDITION 4  
Prepared by the U.S. Army Topographic Command (BESX), Washington, D.C. Compiled in 1955 by photogrammetric methods from aerial photographs taken 1954 and from United States quadrangles 1:24,000, 1:50,000, and 1:62,500, 1940-53. Photographs field annotated 1954. Revised in 1972 by the U.S. Geological Survey from aerial photographs taken 1972.  
100,000-foot grid based on New Mexico coordinate system, east and central zones.  
Location of geodetic control established by government agencies is shown on corresponding 1:250,000-scale Geodetic Control Diagram

**LEGEND**

Figures in red denote approximate distances in miles between stars

**POPULATED PLACES**

- Over 500,000
- 100,000 to 500,000
- 25,000 to 100,000
- 5,000 to 25,000
- 1,000 to 5,000
- Less than 1,000

**ROADS**

- Primary, all-weather, hard surface
- Secondary, all-weather, hard surface
- Light-duty, all-weather, hard or improved surface
- Fair or dry weather, unimproved surface
- Trail
- Interchange

**RAILROADS**

- Single track
- Double or Multiple track
- Narrow gauge
- Standard gauge
- Landplane airport
- Landing area
- Seaplane airport
- Seaplane anchorage
- Woods brushwood

**BOUNDARIES**

- International
- State
- County
- Park or reservation

**Other symbols:** Sun Valley, Grand Coulee, Sun Valley, Landmark: School, Church, Other, Spot elevation in feet, Marsh or swamp, Intermittent or dry stream, Power line

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

**CONTOUR INTERVAL 200 FEET**  
WITH SUPPLEMENTARY CONTOURS AT 100 FOOT INTERVALS

TRANSVERSE MERCATOR PROJECTION

BLACK NUMBERED LINES INDICATE THE 10,000 METRE UNIVERSAL TRANSVERSE MERCATOR GRID, ZONE 13

1970 MAGNETIC DECLINATION FROM TRUE NORTH VARIES FROM 17° 20' WEST EASTERLY FOR THE CENTER OF THE WEST EDGE TO 11° 00' WEST EASTERLY FOR THE CENTER OF THE EAST EDGE

FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092

**LOCATION DIAGRAM**

ARIZONA	NI 12-9	NI 13-5	NI 13-6	NI 14-4
UTAH	NI 12-9	NI 13-5	NI 13-9	NI 14-7
NEW MEXICO	NI 12-12	NI 13-10	NI 13-11	NI 14-10
TEXAS	NH 12-37	NH 13-1	NH 13-2	NH 13-3
OKLAHOMA	NH 12-37	NH 13-1	NH 13-2	NH 13-3
CHIHUAHUA	NH 13-5	NH 13-6	NH 13-6	NH 14-4

**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

**GRID ZONE DESIGNATION**

18S

**TO GIVE A STANDARD REFERENCE TO THIS SHEET TO NEAREST 300 METERS**

100 000 M SQUARE IDENTIFICATION	SAMPLE POINT	LENS BENCH
EG	DF	EF

1. Read letters identifying 100,000 metre square in which the point lies.  
2. Locate that 100,000 metre square on the map and read LARGE figure labeling the line either in the top or bottom margin or on the left side.  
3. Locate the HORIZONTAL grid line BELOW and the VERTICAL grid line to the right of the point.  
4. Estimate tenths from grid line to point.  
5. Estimate hundredths from grid line to point.  
6. Estimate distance from grid line to point.  
7. Reporting distance in any direction, give Grid Zone Designation, etc.

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