UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

GREAT SPRING QUADRANGLE
ARIZONA—NAVAJO CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

3957 II SE (SHONTO SE)

3957 III SE (MARSH PASS SE)

3957 III SW (LONG HOUSE VALLEY)

COW SPRINGS 29 MI. 8 MI. TO ARIZ. 160

OLD INDIAN RESERVATION BOUNDARY

3856 I NE (BLACK MESA WASH NE)

3956 IV NE (YUCCA HILL)

(RED WILLOW SPRING) 3856 I SE

(OWL VALLEY) 3956 IV SW

(RED SLIDE PEAK) 3956 IV SE

PINON 29 MI.

Mapped, edited, and published by the Geological Survey

Control by USGS and NOS/NOAA

Topography by photogrammetric methods from aerial photographs taken 1967 and 1970. Field checked 1971

Polyconic projection. 1927 North American datum
10,000-foot grid based on Arizona coordinate system, east zone
1000-meter Universal Transverse Mercator grid ticks, zone 12, shown in blue
To place on the predicted North American Datum 1983 move the projection lines 3 meters north and 62 meters east as shown by dashed corner ticks

Land lines have not been established in this area

There may be private inholdings within the boundaries of the National or State reservations shown on this map

UTM GRID AND 1982 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 KILOMETER

CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

ROAD CLASSIFICATION

Light-duty road, all weather, improved surface

Unimproved road, fair or dry weather

ARIZONA
QUADRANGLE LOCATION

Revisions shown in purple compiled from aerial photographs taken 1980 and other source data. This information not field checked. Map edited 1982

GREAT SPRING, ARIZ.
36110-D4-TF-024

1971
PHOTOREVISED 1982
DMA 3956 IV NW—SERIES V898

INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRGINIA—1986