

FILE COPY

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
Geological Survey  
Form No. 9-322.3 Rev. 1968

**DESCRIPTION**  
**HORIZONTAL CONTROL STATION**

DIAGRAM Gallup  
USGS QUAD NO. 317

1st Order

Triangulation

Electronic - Distance Traverse

Intersected Object

Station SANDHILL USGS County Navajo State Arizona  
Established by USGS Year 1933 Project D 942

Check one:

New Station: Write full description below C&GS 1936  
 Recovery of Old Station: Recovered by USGS Year 1972 Project PH 1540

Object	Bearing	Distance		Azimuth
		Feet	Meters	
DOUGLAS		42299.9		94°39'01.8"
RM 1		19.23		221 53 00
RM 2		22.61		312 13 00

Described in U.S. Coast and Geodetic Survey description list 351093, station 1012.

Located on the east rim of the Painted Desert; 11 mi NW. of Navajo; 5 mi NE. of the Painted Desert store; in sec. 7, T. 20 N., R. 25 E.

To reach from the entrance gate of the Petrified Forest National Park, follow the main rd. N. for 0.35 mi to a service rd. on the right (old route 66). Follow this rd. E. for 2.75 mi to the park fence. Turn left, N., and follow the fence rd. N. for 2.65 mi. At this point the fence breaks off sharply to the E. Take the left fork and continue N. for 1.0 mi to the station on the left and reference mark No. 2 on the right.

Station mark: Standard bronze tablet stamped "SANDHILL 1933" cemented in boulder.

Reference mark No. 1: Standard reference mark tablet stamped "NO 1" cemented in boulder set in earth.

Reference mark No. 2: Standard reference mark tablet stamped "NO 2" cemented in boulder set in earth.

C&GS Adjusted Coordinates

ARIZONA EAST ZONE

X= 628972.3

Y= 1507517.4

MAPPING ANGLE=40 14 53

ELEV 5903.42 FT

SANDHILL USGS

LAT 35 8 34.274

LONG 109 44 6.937

JUL 19 1972

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**DESCRIPTION**  
**HORIZONTAL CONTROL STATION**

DIAGRAM Gallup  
USGS QUAD NO 317

3rd Order  
Triangulation  Electronic - Distance Traverse  Intersected Object   
Station INDIAN MOUND USGS County Apache State Arizona  
Established by USGS Year 1933 Project D 942

Check one:

- New Station: Write full description below  
 Recovery of Old Station: Recovered by USGS Year 1972 Project PH 357, PH 1540

Object	Bearing	Distance		Azimuth
		Feet	Meters	
SANDHILL USGS		30335.4		165°07'32.3"
RM 1		25.67		190 20 00
RM 2		22.80		295 58 00

Located about 5.8 mi N. and 6.9 mi E. of Adamana, on top of plateau which lies on east side of Dead River Wash; 1.2 mi SW. of old Indian Well, which is a prominent landmark in vicinity (sometimes called a Kivas); 60 ft E. of rd. through pasture and 150 ft SW. of old Indian ruins.

To reach from bridge over Dead Wash and U.S. Interstate 40, go E. about 1 mi to first gate in right-of-way fence (key can be obtained from Mr. Fitzgerald, Pinta, Arizona); go S. through fence on track rd. about 2.5 mi to station across fence from rd.

Station mark: Standard tablet stamped "INDIAN MOUND 1933" cemented in boulder embedded in ground.

Reference mark No. 1: Standard reference mark tablet cemented in boulder embedded in ground.

Reference mark No. 2: Standard reference mark tablet cemented in boulder embedded in ground.

USGS Adjusted 1933 Coordinates

ARIZONA EAST ZONE

ELEV 5661.41 FT

X= 636893.3

Y= 1478236.9

MAPPING ANGLE=+0 15 45

INDIAN MOUND USGS

LAT 35 3 44.296

LONG 109 42 33.175

JUL 19 1972