

35°45'  
112°00'

ARIZONA 396

Index

<u>Station Name</u>	<u>Project</u>
Anita Water Tank ( <i>inactive</i> )	-----
Red (C&GS)	-----, <i>Red Butte</i>
Red Butte	-----
Will (C&GS)	-----
1-03 A ( <i>inactive</i> )	-----
3-50 B ( <i>inactive</i> )	-----
6-146 B ( <i>inactive</i> )	-----
8-128 C ( <i>inactive</i> )	-----

*Red Butte Project master in AZ 396 - PH 1728*

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

35 112 11  
DIAGRAM Williams  
USGS QUAD NO. 396

1st-Order

Triangulation

Electronic - Distance Traverse

Intersected Object

Station RED County Coconino State AZ

Established by NGS Year 1920 Project \_\_\_\_\_

Check one:

New Station: Write full description below

Recovery of Old Station: Recovered by USGS Year 1974 Project PH 474  
PH 664  
PH 1728

Object	Bearing	Distance		AZIMUTH
		Feet	Meters	
GRANDVIEW LOT (1956)				218°39'43.914"
RM 2	NW	35.21		117 50 57
RED BUTTE USGS	SW	57.11		55 18 04

Described in National Geodetic Survey description list 35 112 1, station 1002.

Note by H.J.H., 1956: One reference mark has been removed but position of original drill hole is intact and can still be used.

New to reach as follows: From the Grand Canyon go S. on State Hwy. 64 and 180 for 18.0 mi to a rd. on the left. Turn left and proceed 1.4 mi to a rd. on the left. Turn left and follow this rd. for 1.0 mi to a rd. on the right. Turn right and go 0.4 mi to the end of truck travel. From here pack up trail to top and station. About a 30-minute pack.

Occupied for vertical only in PH 1727.

NGS Adjusted Coordinates

ARIZONA CENTRAL ZONE  
X= 448936.68  
Y= 1753918.22  
MAPPING ANGLE=-0 6 3

ELEV 7325.9 FT

QUAD 35 112 11

RED

LAT 35 49 13.7890

LONG 112 5 20.0800

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

35 112 11  
DIAGRAM Williams  
USGS QUAD NO. 396

1st-Order (unchecked)

Triangulation  Electronic - Distance Traverse  Intersected Object

Station RED BUTTE USGS County Coconino State AZ  
Established by USGS Year 1902 Project Books 2799 & 3388

Check one:

New Station: Write full description below  
 Recovery of Old Station: Recovered by USGS Year 1956 Project PH 474

Object	Bearing	Distance		AZIMUTH
		Feet	Meters	

The original USGS description is obsolete. The station is reached via the 1974 USGS description for NGS station "RED" 35 112 1, station 1002.

The NGS lists this station as "BENCH MARK USGS NEAR STATION RED".

Station mark: A bronze triangulation tablet cemented in malpais rock near the center of the butte and under a cairn 6 ft high and 6 ft in diameter.

Note: This station is 57 ft from NGS station "RED".

NGS Adjusted Coordinates

ARIZONA CENTRAL ZONE

ELFV

X= 448889.68

Y= 1753885.74

MAPPING ANGLE=-0 6 3

QUAD 35 112 11

RED BU CCSM '02 2799 LAT 35 49 13.4670 LONG 112 5 20.6500

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

35 112 11  
DIAGRAM Williams  
USGS QUAD NO 396

3rd-Order

Triangulation

Electronic - Distance Traverse

Intersected Object

Station WILL County Coconino State AZ  
Established by NGS Year 1955 Project \_\_\_\_\_

Check one:

New Station: Write full description below

Recovery of Old Station: Recovered by USGS Year 1956 Project PH 474

Object	Bearing	Distance		AZIMUTH
		Feet	Meters	

*SENF 174*

Described in National Geodetic Survey description list 35 112 1, station 1007.

Note by H.J.H., 1956: Station found as described and in good condition. No reference marks were found and none were set.

Note by S.L.G., 1974: I believe this mark has been covered or destroyed by the widening of the rd. I found part of an old signal, but no signs of the concrete post.

NGS Adjusted Coordinates

ARIZONA CENTRAL ZONE

X= 406815.0

Y= 1735504.9

MAPPING ANGLE=-0 11 1

ELEV 5922. FT

QUAD 35 112 11

WILL

LAT 35 46 10.637

LONG 112 13 50.849

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