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✓ 1-28 A	Ajo

32°15'  
112°45'

ARIZONA 78

Index (CONT.)

Ajo Project Master in ARIZONA 23 - Book: PH 858

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

THIRD-ORDER TRIANGULATION  
North American Datum of 1927

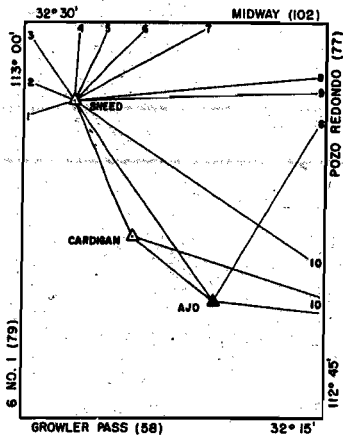
AJO QUADRANGLE  
ARIZONA 78  
N3215-W11245/15

FILE COPY

Pima County  
Edition of 5/1/56

Numbered lines indicate listed azimuths and distances to the following stations not on the quadrangle:

1. Growler (C&GS)
2. Palsano
3. Cornez
4. Rio
5. Crater
6. Hat Brim (C&GS)
7. Dim (C&GS)
8. Papago
9. Saucedo (C&GS)
10. Childs (C&GS)



To reach station take rd. past Sneed's ranch around S. end of mountain to where a rd. leads N. along the W. side of the mountain. Station can then be reached on foot from a point 1.5 mi. W. of mountain.

Station mark: Bronze tablet set under cairn.

Reference mark: Standard reference mark bronze tablet, 23.5 ft. from station mark in azimuth 255°46'.

Note by J.R.C., 1948: Station found as described.

V.A. elevation 2000 ft. **2846 ft**

Latitude: 32°27'01.938" Longitude: 112°57'30.460"

To Station	Azimuth	Back Azimuth	Feet
Growler (C&GS)	71°35'44.4"	251°31'09.7"	46,278.7
Palsano	111 25 21.8	291 18 56.0	66,086.4
Cornez	144 31 36.6	324 26 49.2	78,764.0
Rio	184 12 40.4	4 13 14.2	73,230.1
Crater	206 07 57.4	26 09 46.3	39,412.6
Hat Brim (C&GS)	225 02 12.5	45 09 14.6	94,839.1
Dim (C&GS)	241 50 16.1	61 56 35.2	68,519.1
Papago	264 28 28.1	84 35 30.6	67,769.7
Saucedo (C&GS)	267 55 29.7	88 07 22.1	113,817.9
Childs (C&GS)	303 44 47.6	123 52 36.2	90,311.1
Ajo (C&GS)	322 06 23.5	142 10 07.9	58,511.0
Cardigan	344 05 35.8	154 07 10.9	34,857.1

▲ Positions determined by U.S.C. & G.S.

Books: D 116, 710, 715, 725 and PH-73-74

✓ **AJO (C&GS) Destroyed** Pima County ARIZONA

USC&GS, 1920, 1935, 1936  
W. G. Carson, 1931

SEE AJO 2 1962

Described by U. S. Coast and Geodetic Survey in Special Publication 224, p. 104. **32 112 3-1001**

Note by W.G.C., 1931: Located about 3 mi. SE. of Ajo, on summit of Black Mountain.

To reach station take the old Senoyta rd. S. from Ajo about 3 mi.; from which point the mountain can be reached from W. side.

Station mark: USC&GS bronze disk set in rock over which a rock monument is centered.

Reference mark not found.

No elevation

\*Latitude: 32°19'24.841" \*Longitude: 112°50'31.685"

To Station	Azimuth	Back Azimuth	Feet
Cardigan	125°39'09.1"	305°37'00.1"	25,464.6
Sneed	142 10 07.9	322 06 23.5	58,511.0
Papago	210 56 39.5	30 59 57.0	61,405.2
*Childs (C&GS)	275 53 18.9	95 57 22.7	39,360.

\*=Values by USC&GS

**CARDIGAN** Pima County ARIZONA

W. G. Carson, 1931 (Not occupied)

Located about 1.5 mi. NW. of house on Cardigan Mining claims, near center of Sec. 20, T. 12 S., R. 6 W., on W. end of high ridge.

To reach station, take rd. from Ajo to Cardigan mining claims about a mile past them a rd. turns to the N. which leads to the S. base of the mountain from which the mountain can be ascended on foot.

Station mark: Standard tablet cemented in rock under a cairn.

V.A. Elevation, **2922 ft**

Latitude: 32°21'51.648" Longitude: 112°54'32.911"

To Station	Azimuth	Back Azimuth	Feet
Sneed	154°07'10.9"	334°05'35.8"	34,857.1
Childs (C&GS)	287 28 28.1	107 34 41.2	62,751.8
Ajo (C&GS)	305 37 00.1	125 39 09.1	25,464.6

✓ **SNEED** Pima County ARIZONA

W. G. Carson, 1931  
J. R. Clemens, 1948

Located 3 mi. NW. of Sneed's ranch on N. end of black mountain.

SEE AJO 2 1962

SEE LATER VALUES

FILE COPY

NAD 83 VALUES AVAILABLE

SEE LATER VALUES

Arizona (78)

Pima County

AJO 2

1927 N.A.D. (Unadj.)

R.N. Gardner, 1962

Book: PH 858

Station found as described in U.S. Coast and Geodetic Survey Special Publication No. 224, page 104.

Station reached by helicopter.

Station mark: Mark was not found--probably destroyed. A new station mark, a standard USGS tablet was set in outcropping rock in the approximate location of the original station and stamped "AJO 2 1962"

Reference mark No. 1: A USC&GS standard reference mark tablet set in rock, stamped "AJO 1920 NO 1 1935", 30.01 ft. in azimuth  $195^{\circ}34'07''$ .

Reference mark No. 2: A USC&GS standard reference mark tablet set in rock, stamped "AJO 1920 NO 2 1935", 39.36 ft. in azimuth  $284^{\circ}10'25''$ .

Signal: White flag over fluorescent cross-target centered over station mark.

Signal data:	TWF	11.2 ft.
	TRXT	7.7
	BRXT	5.2

Photo No. Not Identified

ARIZONA ZONE CENTRAL

V.A. Elevation: 3008 ft.

X= 214,119.36

Y= 482,660.58

\*Latitude:  $32^{\circ}19'24.845''$

Longitude:  $112^{\circ}50'31.682''$

\* = Position computed using USC&GS RM's and positions of USC&GS.

*NSFW* 12/87

4/27/62 vrm *lol*

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Arizona (78)

Pima County

AJO STACK

1927 N.A.D. (Unadj.)

R.N. Gardner, 1962

Book: PH 858

Not described.

*N9F  
W 2/67*

ARIZONA ZONE CENTRAL

V.A. Elevation: 2119 ft.  
(Top of stack)

X=210,304.

Y=499,112.

Latitude: 32°22'07.30"

Longitude: 112°51'17.83"

<u>To Station</u>	<u>Azimuth</u>	<u>Back Azimuth</u>	<u>Feet</u>
Sneed	133°00'48"	312°57'28"	43,672.
Papago	224 25 23	44 29 05	50,759.

**NAD 83 VALUES AVAILABLE**

4/27/62 vrm *led*

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Arizona (78)

Pima County

BAT (C&GS)

1927 N.A.D.

USC&GS, 1936

D.J. Winstead, 1962

Book: PH 858

Described in U.S. Coast and Geodetic Survey Special Publication 224,  
page 140. *92 112 3-1002*

Station found as described: All marks in good condition.

Station reached by helicopter.

Signal: White flag over red cross-target on 2 x 2 pole centered  
over station mark.

Signal data:	TWF	11.0 ft.
	BWF	8.0
	TRXT	8.0
	BRXT	5.4

*OK W 1/44*

Photo No. Pabeled 5-246.

ARIZONA ZONE CENTRAL.

V.A. Elevation: 1886 ft.

\*X=240,569.79

Y=525,660.59

\*Latitude: 32°26'32.493"

Longitude: 112°45'27.395"

\* = Values by USC&GS

4/27/62 vrm *ld*

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Arizona (78)

Pima County

BM "M 307"

1927 N.A.D. (Unadj.)

~~1927~~

J.E. Kallbrier, 1962

Book: PH 858

Described in U.S. Coast and Geodetic Survey Level Line Arizona No. 1.

Note by JEK, 1962: Station found as described, all marks found in good condition.

Signal: White flag over red cross-targets, on wood pole centered over station mark.

Signal data:	TWF	15.0 ft.
	BWF	12.0
	TRXT	11.1
	BRXT	8.5

Image point No. 1: Center of bush, 38 ft. from station mark and level, in azimuth  $147^{\circ}04'28''$ .

Image point No. 2: Center of bush, 70 ft. from station mark and level, in azimuth  $229^{\circ}57'06''$ .

Image point No. 3: Center of bush, 83 ft. from station mark and level, in azimuth  $344^{\circ}54'43''$ . X=205,310. Y=457,783.

Photo No. 3-195.

ARIZONA ZONE CENTRAL  
X=205,288.  
Y=457,863.

Elevation: 1624.980 ft.  
(Second-order leveling  
by USC&GS)

Latitude:  $32^{\circ}15'18.70''$

Longitude:  $112^{\circ}52'12.02''$

<u>To Station</u>	<u>Azimuth</u>	<u>Back Azimuth</u>	<u>Feet</u>
Tesmo	$26^{\circ}19'33''$	$206^{\circ}16'51''$	59,101.
Bates (C&GS)	52 45 53	232 42 45	38,067.

**NAD 83 VALUES AVAILABLE**

OK W/12/87

4/27/62 vrm *ll*

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Arizona (78)

Pima County

CARDIGAN

1927 N.A.D. (Unadj.)

W.G. Carson, 1931(n)

S.B. Chan, 1962

Book: PH 858

Station found as described by W. G. Carson, 1931.

Station reached by helicopter.

Station mark: Standard tablet cemented in rock with no stampings.

No reference marks.

Signal: White flag over red fluorescent cross-target on a 2 x 2 pole centered over the station mark.

Signal data:	TWF	11.1 ft.
	BWF	8.0
	TRXT	7.7
	BRXT	5.2

Image point No. 1: Center of a tree, 77 ft. from the station mark in an azimuth of  $325^{\circ}10'08''$  and 30.6 ft. below the station.

X=193,600. Y=497,617.

Image point No. 2: Center of a tree, 48 ft. from the station mark in an azimuth of  $22^{\circ}26'25''$  and 23.1 ft. below the station.

Image point No. 3: Center of a tree, 58 ft. from the station mark in an azimuth of  $59^{\circ}33'21''$  and 30.6 ft. below the station.

Computers note: Adjusted azimuths and distances are available in final format.

Photo No. GS-VAHP 4-131 - duplicate

ARIZONA ZONE CENTRAL

V.A. Elevation: 2922 ft.

X=193,556.9

Y=497,681.0

Latitude:  $32^{\circ}21'51.648''$

Longitude:  $112^{\circ}54'32.911''$

(n) = Not occupied

**NAD 83 VALUES AVAILABLE**

4/27/62 vrm

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Arizona (78)

Pima County

DUST (C&GS)

1927 N.A.D.

USC&GS, 1936

J.E. Kallbrier, 1962

Book: PH 858

Recovered as described in U.S. Coast and Geodetic Survey Special  
Publication No. 224, page 140. *32 112 3 - 1007*

Note by JEK, 1962: Station found as described, all marks in good  
condition.

Signal: White flag over red cross-target on wood pole centered  
over station mark.

Signal data:	TWF	11.2 ft.
	TRXT	7.8
	BRXT	5.2

Image point No. 1: Center of bush, 37 ft. from station mark and  
level in azimuth  $316^{\circ}46'42''$ . X=239,804. Y=475,585.

Image point No. 2: Center of bush, 10 ft. from station mark and  
level in azimuth  $251^{\circ}45'38''$ .

Image point No. 3: Center of bush, 31 ft. from station mark and  
level in azimuth  $128^{\circ}22'59''$ .

Photo No. 4-18 and 3-218.

ARIZONA ZONE CENTRAL  
\*X=239,778.96  
Y=475,611.76

Elevation: 1704.760 ft.  
(First-order levels  
by USC&GS)

\*Latitude:  $32^{\circ}18'17.190''$

Longitude:  $112^{\circ}45'32.026''$

\* = Values by USC&GS

*ok w/ 12/87*

4/30/62 vrm *[signature]*

**FILE COPY**

Arizona (78)

Pima County

FLITE (C&GS)

1927 N.A.D.

USC&GS, 1935

W.T. Borgeson, 1962

Book: PH 858

Station mark and reference mark No. 1 recovered in good condition as described in U.S. Coast and Geodetic Survey Special Publication No. 224, page 123, with the following exceptions: Reference mark No. 2 and the azimuth mark have been destroyed by highway improvements.

The station is on the grounds of the Cabeza Prieta Game Range Sub-Headquarters operated by the Fish and Wildlife Service of the Department of Interior. Mark is 7 ft. N. of the N. wall of building and 9.6 ft. W. of the NE. corner. Growth of town renders station virtually useless as a triangulation station.

Station mark: USC&GS disk stamped "FLITE 1935" set in concrete post projecting 0.3 ft.

Reference mark No. 1: A USC&GS reference mark disk stamped "FLITE NO 1 1935" set in flush concrete post, 76.05 ft. from mark in azimuth  $185^{\circ}39'$  (C&GS values). A wooden post obstructs line from station mark to reference mark.

Reference mark No. 3: A U.S. Air Force Geodetic Survey disk, stamped "RM NO 3 1952" set in concrete post projecting 0.1 ft., 74.28 ft. from station mark in azimuth  $182^{\circ}32'$ . The arrow on this disk points to the former location of an Air Force station which has been destroyed.

Signal: White flag over fluorescent red cross-target on pole centered over reference mark No. 1. (Sight lines from station mark mostly obstructed).

Signal data:	TWF	14.4 ft.
	TRXT	12.05
	BRXT	9.4

Image point No. 1: Ironwood tree, 142 ft. (taped) from station mark in azimuth  $148^{\circ}44'53''$ . Elevation: 1764.9 ft.

Image point No. 2: Small palo verde tree, 212 ft. (taped) from station mark in azimuth  $164^{\circ}58'13''$ . Elevation: 1762.8 ft.

Image point No. 3: Small palo verde tree on E. side of highway, 241 ft. from mark in azimuth  $234^{\circ}55'23''$ . Elevation: 1763.6 ft.  
X= 205,306. Y= 505,650.

Image point No. 4: Centerline of highway opposite station, 109 ft. from station mark in azimuth  $270^{\circ}46'$ .

Photo No. 4-132.

ARIZONA ZONE CENTRAL  
\*X=205,109.53  
Y=505,509.68

Elevation: 1772 ft.  
(PTL from USC&GS  
BM "C 333")

\*Latitude:  $32^{\circ}23'10.152''$

Longitude:  $112^{\circ}52'19.047''$

\* = Values by USC&GS

4/30/62 vrm *ok WW 2/89*

FILE COPY

Arizona (78)

Pima County

J.C. GREENWAY CROSS

1927 N.A.D. (Unadj.)

R.N. Gardner, 1962

Book: PH 858

The John Campbell Greenway Cross was originally intersected by U.S. Coast and Geodetic Survey in 1935 and 1936.

Station is located about 0.5 mi. SW. of the center of the town of Ajo on a sharp isolated top.

Station reached by helicopter.

The eccentric station was marked by a used star drill and is 9.98 ft. from the memorial cross (a large concrete structure) in azimuth 192°18'18".

Signal: Cross is used.

Signal data: Top of cross arm of concrete cross 16.0 ft.

Photo No. Not Identified.

ARIZONA ZONE CENTRAL  
X=203,196.  
Y=497,630.

ECCENTRIC STATION  
X=203,198  
Y=497,640.

V.A. Elevation: 2573 ft.  
(Rock and concrete lower base)

Latitude: 32°21'52.02" \*  
.021 \*

Longitude: 112°52'40.53" \*  
516 \*

<u>To Station</u>	<u>Azimuth</u>	<u>Back Azimuth</u>	<u>Feet</u>
Sneed	141°35'06"	321°32'31"	39,985.
Papago	228 25 23	48 29 50	56,967.

OK W 12/87

4/30/62 vrm *led*

\* NGS Values

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4<sup>th</sup> ORDER 2 ✓

Arizona (78)

Pima County

SEC COR T11S R5W

1927 N.A.D. (Unadj.)

J.R. Heiser, 1962

Book: PH 858

Station is located 5 mi. NE. of Ajo, Pima County and about 4.4 mi. E. of Arizona State Highway 85, 0.1 mi. S. of a prominent wash and about 0.2 mi. W. of a prominent, dark colored butte.

To reach from Post Office at Ajo drive SE. along Arizona State Highway 85 for 0.3 mi. to paved rd. intersection, take left fork and drive N. for 4.1 mi. to rd. fork, take right fork and drive 1.2 mi. across wash to track rd. on right; turn right and drive SE. about 1.5 mi. to S. end of a low ridge and dim rd. intersection; turn left and drive NE. cross country 0.8 mi. to station.

Station mark: GLO brass cap, SE. corner section 29, T. 11 S., R. 5 W.

Signal: White flag over red cross-target centered over station mark.

Signal data:	TWF	15.2 ft.
	BWF	12.0
	TRXT	12.0
	BRXT	9.4

Photo No. Not Identified.

ARIZONA ZONE CENTRAL  
X=228,993.  
Y=522,268.

V.A. Elevation: 1516 ft.  
*GROUND IS 0.8' LOWER*

Latitude: 32°25'58.00"

Longitude: 112°47'42.15"

<u>To Station</u>	<u>Azimuth</u>	<u>Back Azimuth</u>	<u>Feet</u>
J.G. Cross. Ecc.	45°45'57"	225°48'37"	35,664.

**NAD 83 VALUES AVAILABLE**

4/27/62 vrm *ld*

**FILE COPY**

42 ORDER

Arizona (78)

Pima County

SEC COR T11S R6W ✓

1927 N.A.D. (Unadj)

GLO, 1918

J.R. Heiser, 1962

Book: PH 858

Station is located 8 mi. N. of Ajo, Pima County along Arizona State Highway 85 and about 100 ft. E. of Highway 85.

To reach from the Post Office at Ajo drive N. along Arizona State Highway 85 for 8.5 mi. to station on right.

Station mark: GLO brass cap, SE. corner section 4, T. 11 S. R. 6 W.

Photo No. Not identified.

ARIZONA ZONE CENTRAL

X=202,807.

Y=543,598.

V.A. Elevation: 1338 ft.

GROUND IS 0.8 FT LOWER

Latitude: 32°29'26.82"

Longitude: 112°52'49.90"

<u>To Station</u>	<u>Azimuth</u>	<u>Back Azimuth</u>	<u>Feet</u>
J.G. Cross Ecc.	358°59'44"	178°59'49"	45,960.

**NAD 83 VALUES AVAILABLE**

4/27/62 vrm, *del*

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4<sup>th</sup> ORDER

Arizona (78)

Pima County

SEC COR T11S R6W

1927 N.A.D. (Unadj.)

GLO, 1918

J.R. Heiser, 1962

Book: PH 858

Station is located 6 mi. N. of Ajo, Pima County and 0.5 mi. NW. of Childs, on the W. side of a low hill and on the valley floor.

To reach from the Post Office at Ajo, drive SE. along State Highway 85, 0.3 mi. to paved rd. intersection, take left fork and drive N. for 5.2 mi. to rd. fork leading to airport, take left fork 0.3 mi. to track rd. on right, turn right and drive across railroad tracks 0.5 mi. to station on left.

Station mark: GLO brass cap, SE. corner section 14, T. 11 S., R. 6 W.

Signal: White flag over red cross-target centered over station mark.

Signal data:	TWF	15.2 ft.
	BWF	12.0
	TRXT	12.0
	BRXT	9.4

OK  
EEM  
4/11/66

Photo No. Not Identified.

ARIZONA ZONE CENTRAL  
X=213,303.  
Y=532,947.

V.A. Elevation: 1407 ft.  
GROUND IS 61' LOWER

Latitude: 32°27'42.35"

Longitude: 112°50'46.29"

<u>To Station</u>	<u>Azimuth</u>	<u>Back Azimuth</u>	<u>Feet</u>
J.G. Cross Ecc.	15°28'22"	195°27'21"	36,724.

**NAD 83 VALUES AVAILABLE**

4/27/62 vrm *[signature]*

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4<sup>th</sup> Order

Arizona (78)

Pima County

SEC COR T11, 12S R6W

1927 N.A.D. (Unadj.)

J.R. Heiser, 1962

Book: PH 858

Located about 3 mi. NW. of Ajo, Pima County, 1.5 mi. W. of Arizona State Highway 85, and 0.6 mi. NE. of Sneed Ranch.

To reach from the Post Office at Ajo, drive N. 1.7 mi. to gravel rd. on left; turn left and drive NW. about 2.8 mi. to Sneed Ranch, turn right on rd. leading E. from Sneed Ranch and drive 0.5 mi. to track rd. on left, turn left and drive N. 0.4 mi. to station.

Station mark: GLO brass cap, SE. corner section 32, T. 11, 12 S. R. 6 W.

Photo No. Not Identified.

ARIZONA ZONE CENTRAL  
X=197,299.  
Y=517,226.

V.A. Elevation: 1552 ft.  
GROUND IS 0.3' LOWER

Latitude: 32°25'05.38"

Longitude: 112°53'51.38"

<u>To Station</u>	<u>Azimuth</u>	<u>Back Azimuth</u>	<u>Feet</u>
J.G. Cross Ecc.	342°42'40"	162°43'18"	20,455.

**NAD 83 VALUES AVAILABLE**

4/27/62 vrm *del*

**FILE COPY**

4th ORDER

Arizona (78)

Pima County

SEC COR T11,12S R6W ✓

1927 N.A.D. (Unadj.)

J.R. Heiser, 1962

Book: FH 858

Located 3 mi. N. of Ajo and 0.4 mi. E. of Arizona State Highway 85, on W. side of bend in rd..

To reach from Post Office at Ajo, drive SE. along Arizona State Highway 85 0.3 mi. to paved rd. on left, turn left and drive N. 0.7 mi. to track rd. on left, turn left and drive N. about 1 mi. to railroad tracks, cross tracks and follow main traveled rd. about 1.7 mi. to station on left.

Station mark: GLO brass cap, SE. corner section 34, T 11,12 S. R. 6 W.

Signal: White flag over red cross-target centered over station mark.

Signal data:	TWF	15.2 ft.
	BWF	12.0
	TRXT	12.0
	BRXT	9.4

Photo No. Not Identified.

ARIZONA ZONE CENTRAL  
X=207,863.  
Y=517,143.

V.A. Elevation: 1560 ft.  
GROUND IS 0.4' LOWER

Latitude: 32°25'05.50"

Longitude: 112°51'48.14"

<u>To Station</u>	<u>Azimuth</u>	<u>Back Azimuth</u>	<u>Feet</u>
J.G. Cross Ecc.	12°56'39"	192°56'11"	20,053.

**NAD 83 VALUES AVAILABLE**

4/27/62 vrm *del*

**FILE COPY**

4<sup>th</sup> ORDER

Arizona (78)

Pima County

SEC COR T12S R5W

1927 N.A.D. (Unadj.)

GLO, 1918

Book: PH 858

J.R. Heiser, 1962

Station is located about 6 mi. E. of Ajo, Pima County, 1.5 mi. NE. of Childs Ranch and about 3 mi. NE. of Arizona State Highway 85.

To reach from the Post Office at Ajo, drive SE. along Arizona State Highway 85 for 1.6 mi. to gravel rd. on left; turn left and drive 0.3 mi. to rd. intersection, turn right and drive NE. 3.1 mi. to track rd. on right, turn right and drive SE. 1.2 mi. to station on right.

Station mark: GLO brass cap, SE. corner section 15, T. 12 S. R. 5 W.

Photo No. Not Identified.

OK w/1/2/87

ARIZONA ZONE CENTRAL

X=239,393.

Y=501,047.

V.A. Elevation: 1637 ft.

GROUND IS 0.7' LOWER

Latitude: 32°22'28.85"

Longitude: 112°45'38.86"

<u>To Station</u>	<u>Azimuth</u>	<u>Back Azimuth</u>	<u>Feet</u>
J.G. Cross Ecc.	84°10'12"	264°06'26"	36,355.

NAD 83 VALUES AVAILABLE

4/27/62 vrm. *[Signature]*

FILE COPY

4th order

Arizona (78)

Pima County

SEC COR T12S R5W

1927 N.A.D. (Unadj.)

J.R. Heiser, 1962

Book: PH 858

Station is located about 3.4 mi. SE. of Ajo, Pima County, along State Highway 86 and about 500 ft. SW. of State Highway 85.

To reach from the Post Office at Ajo drive SE. along State Highway 85 for 3.4 mi. to a track rd. on right, turn right and drive S. for 0.1 mi. to station on W. side of rd.

Station mark: GLO brass cap, SE. corner section 30, T. 12 S., R. 5 W., 1918.

Computer's note: This position is not of 3rd order accuracy. Side check misses by  $\pm 60$  ft.

Photo No. Not Identified.

*Not plotted on CD  
JCH*

ARIZONA ZONE CENTRAL  
X=223,499.  
Y=490,597.

Elevation: 1685 ft. (T)  
GROUND IS 0.7' LOWER

Latitude: 32°20'44.16"

Longitude: 112°48'43.15"

<u>To Station</u>	<u>Azimuth</u>	<u>Back Azimuth</u>	<u>Feet</u>
Ajo 2	49°17'12"	229°16'14"	12,287.
Childs(C&GS)	292 00 50	112 03 56	32,185.

**NAD 83 VALUES AVAILABLE**

4/30/62 vrm *JCH*

**FILE COPY**

4<sup>th</sup> ORDER

Arizona (78)

Pima County

SEC COR T12S R5W

1927 N.A.D. (Unadj.)

J.R. Heiser, 1962

Book: PH 858

Station is located about 4 mi. NE. of Ajo, Pima County, 4.4 mi. E. of State Highway 85, 3.5 mi. N. of Childs Ranch at the N. side of a bend in a very dim track rd.

To reach from Post Office at Ajo, drive SE. along State Highway 85, for 0.3 mi. to paved rd. intersection, take left fork and drive N. for 4.1 mi. to rd. fork, take right fork and drive 1.2 mi. across wash to track rd. on right, turn right and drive SE. about 3.1 mi. to dim rd. intersection, turn right and drive 0.7 mi. SW. to station on right.

Station mark: GLO brass cap, SE. corner section 5, T. 12 S., R. 5 W.

Photo No. Not Identified.

ARIZONA ZONE CENTRAL  
X=228,911.  
Y=511,702.

V.A. Elevation: 1553 ft.  
GROUND IS 0, 5' LOWER

Latitude: 32°24'13.45"

Longitude: 112°47'42.10"

<u>To Station</u>	<u>Azimuth</u>	<u>Back Azimuth</u>	<u>Feet</u>
J.G. Cross Ecc.	60°51'17.3"	240°48'38"	29,307.

**NAD 83 VALUES AVAILABLE**

4/27/62 vrm *lal*

**FILE COPY**

4th order

Arizona (78)

Pima County

SEC COR T12,13S R5W

1927 N.A.D. (Unadj.)

GLO, 1918

J.R. Heiser, 1962

Book: PH 858

Located about 4 mi. SE. of Ajo, Pima County and 0.3 mi. E. of where the Rio Cornez wash crosses Arizona State Highway 85.

Reached by helicopter.

Station mark: GLO brass cap SE. corner section 33, T. 12, 13 S.  
R. 5 W.

Photo No. Not Identified.

N9 F W 12/87

ARIZONA ZONE CENTRAL

X=233,984.

Y=485,256.

V.A. Elevation: 1626 ft.

GROUND IS 0.8' LOWER

Latitude: 32°19'52.16"

Longitude: 112°46'40.45"

<u>To Station</u>	<u>Azimuth</u>	<u>Back Azimuth</u>	<u>Feet</u>
Ajo 2	82°05'47"	262°03'44"	20,033.

**NAD 83 VALUES AVAILABLE**

4/27/62 *ll*

**FILE COPY**

4<sup>th</sup> order

Arizona (78)

Pima County

SEC COR T13S,R5W

1927 N.A.D. (Unadj.)

GLO, 1918

J.R. Heiser, 1962

Book: PH 858

Located about 7 mi. SE. of Ajo, Pima County, about 1 mi. W. of Arizona State Highway 85 on an E.-W. fence line.

Reached by helicopter.

Station mark: GLO brass cap SE. corner section 15, T. 13 S., R. 5 W.

Photo No. Not Identified.

NGFW  
12/67

ARIZONA ZONE CENTRAL

X=239,122.

Y=469,384.

V.A. Elevation: 1722 ft.

GROUND IS 0.7' LOWER

Latitude: 32°17'15.51"

Longitude: 112°45'39.11"

<u>To Station</u>	<u>Azimuth</u>	<u>Back Azimuth</u>	<u>Feet</u>
Ajo 2	117°31'03"	297°28'27"	28,310.

**NAD 83 VALUES AVAILABLE**

4/27/62 vrm *lol*

**FILE COPY**

*3rd Order*

Arizona (78)

Pima County

SEC COR T13S R6W

1927 N.A.D. (Unadj.)

J.J. Hoganson, 1962

Book: PH 858

Located about 7 mi. (airline) SW. of Ajo.

Station reached by helicopter.

Station mark: Standard GLO brass tablet set in ground, SE. 19, T. 13 S. R. 6 W.

Note: Position to be used for plotting *only*

Photo No. None.

*checked by J. Church on 10/15/62*

ARIZONA ZONE, CENTRAL  
X=191,575.  
Y=464,485.

V.A. Elevation: 1692 ft.

*GROUND IS 0.7' lower*

Latitude: 32°16'23.00"

Longitude: 112°54'52.42"

<u>To Station</u>	<u>Azimuth</u>	<u>Back Azimuth</u>	<u>Feet</u>
Gro	72°40'45"	252°37'09"	36,550.
Cardigan	182 53 02	2 53 12	33,255.

**NAD 83 VALUES AVAILABLE**

*DESTROYED*

*300  
4/56*

*PIPE FOUND ROTTEN OFF AT GROUND LEVEL 4/30/62 vrm [initials]*

**FILE COPY**

3rd order

Arizona (78)

Pima County

SEC COR T13S R6W

1927 N.A.D. (Unadj.)

GLO, 1918

L.R. Curtis, 1962

Book: PH 858

Located 6.5 mi. (airline) SW. of Ajo, and 9 mi. N. of Bates Well, and just W. of a drain.

Station reached by helicopter.

Station mark: Iron rod with brass cap stamped "T13S R6W 1/4 SEC".

Photo No. None

ARIZONA ZONE CENTRAL  
X=186,444.  
Y=472,446.

V.A. Elevation: 1764 ft.

GROUND IS 1.2' LOWER

Latitude: 32°17'41.29"

Longitude: 112°55'53.05"

<u>To Station</u>	<u>Azimuth</u>	<u>Back Azimuth</u>	<u>Feet</u>
Tesmo	6°05'49	186°05'05"	67,774.
Gro	57 39 18	237 36 13	35,136.

**NAD 83 VALUES AVAILABLE**

4/30/62 . vrm *lcl*

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Arizona (78)

Pima County

SNEED

1927 N.A.D. (Unadj.)

W.G. Carson, 1931

J.R. Clemens, 1948

Book: PH 858

S.B. Chan, 1962

Found as described by W.G. Carson, 1931.

Signal: White flag over fluorescent cross-target on a 2 x 2 pole centered over station mark.

Signal data:	TWF	10.9 ft.
	BWF	8.0
	TFXT	8.0
	BFXT	5.5

Computer's note: Adjusted azimuths and distances are available in final format.

Photo No. Paneled

ARIZONA ZONE CENTRAL

X=178,633.7

Y=529,182.5

V.A. Elevation: 2846 ft.

Latitude: 32°27'01.938"

Longitude: 112°57'30.460"

4/27/62 vrm *ll*

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Arizona (78)

Pima County

1-28 A

1927 N.A.D. (Unadj.)

J.A. Lyon, 1948  
H.R. Poulsen, 1962

Book: PH 858

Station recovered as described by J.A. Lyon, 1948.

Station reached by helicopter.

Signal: White flag over red cross-target centered over station mark.

Signal Data:	TWF	11.0 ft.
	BWF	8.0
	TRXT	7.7
	BRXT	5.2

Photo No. Paneled

ARIZONA ZONE CENTRAL

V.A. Elevation: 1645 ft.

X=207,233.

Y=546,897.

Latitude: 32°29'59.86"

Longitude: 112°51'58.58"

**NAD 83 VALUES AVAILABLE**

*(See next page)  
for locate*

4/27/62 vrm *led*

**FILE COPY**