

LIFE COPY

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THIRD ORDER LEVELING
Sea Level Datum of 1929

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SAFFORD QUADRANGLE
ARIZONA 113
N3245-W10930/15

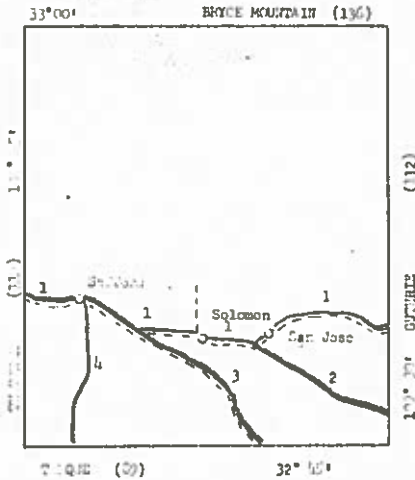
Graham County
Division of 7/2 / 7

only the standard table
and listed for line run
more than 2 years before
the edition date.

3076

3077

32 109 4



(3) FROM TANQUE QUADRANGLE (89) NORTHWEST ALONG SOUTHERN PACIFIC RAILROAD TO SAFFORD (by G.H. Birdseye, 1914; Book: A 9539)

Solomon, 2.7 mi. SE. of, 370 ft. SW. of trestle 1130.07, 50 ft. W. of center of track, 8 ft. S. of milepost 1130; standard iron post with bronze cap stamped "3028 14" (CMGS tie)

Hackel Siding, 6 mi. N. of, in base of milepost 33; spike

Hackel Siding, 7 mi. N. of, in base of milepost 34; spike

S.F.N.F. 4-83
3026.825

3008.77

2990.20

(4) FROM SAFFORD SOUTH ALONG SAFFORD-WILCOX ROAD INTO TANQUE QUADRANGLE (89) (by A.H. Schadler, USGS, 1934)

On Safford-Wilcox Rd., 3 mi. S. of Safford on E. side of rd. near gate to airport; concrete post with standard USFS tablet stamped "G.A.R.-W.B.M. No. 100, Elev. 3048 1934" (Not found, 1958)

3048.*

*These bench marks having published elevations to feet only do not meet present standards for third-order control.

Index to Permanent Marks

Mark	Line No.
G.A.R.-W.B.M. No. 100	4
2903 PNHX	1
2952 PNHX (Destroyed)	1
2976 PNHX	1
2979 PNHX	1
3028 "14"	3
3058 PNHX	1
3195 PNHX	2
3208 PNHX	1

(1) FROM THATCHER QUADRANGLE (114) SOUTHEAST ALONG SOUTHERN PACIFIC RAILROAD AND ROADS BY WAY OF SOLOMON INTO GUTHRIE QUADRANGLE (112) (by T. Windsor, 1900; Book: 8517)

Safford, 140 ft. E. of station E. side of street, 1 ft. N. of main track, 3 ft. W. of telephone pole; standard iron post with bronze cap stamped "2923 PNHX" (Not found, 1958)

2922.159

Safford, 2.5 mi. SE. of; standard iron post with bronze cap stamped "2952 PNHX" (Destroyed, 1958)

2921.000

Solomon, 100 ft. W. of station 20 ft. SW. of center of track, near telegraph pole; standard iron post with bronze cap stamped "2979 PNHX" (Recovered by USC&GS) (Not found, 1958)

2978.406 Destroyed '83"

Solomon, in middle of front of school building 3.5 ft. above ground; aluminum tablet stamped "2976 PNHX" (Tablet out, hole remains)

2975.442

Solomon, 3.2 mi. E. of, in forks of rd. at junction of Solomon-Coronado toll rd. with Solomon-Duncan R.R. 40 ft. E. of toll rd. signboard; standard iron post with bronze cap stamped "3058 PNHX"

3097.410

Solomon, 5.5 mi. NE. of, on W. side of rd. at bank; standard iron post with bronze cap stamped "3208 PNHX" (Not found, 1958)

3207.558

3026.825 - Not Found '83"

(2) FROM SOLOMON SOUTHEAST TOWARD ASH PEAK CENING INTO GUTHRIE QUADRANGLE (112) (by J.T. Stewart, 1901; Book: 8517)

Solomon, 5.7 mi. SE. of, 15 ft. N. of rd., on S. bank of main; standard iron post with bronze cap stamped "3195 PNHX"

3194.910 New Desc. '83"

32°45'
109 30

Index

<u>Station</u>	<u>Project</u>
Bonit (C&GS) ✓	Safford
BM "W 40 1934" (C&GS) ✓	Safford
G 4 (Soil Cons.) INACTIVE FILE	- - - -
G 5 (Soil Cons.) INACTIVE FILE	- - - -
G 6 (USSES)	Safford
5 G 7 (Soil Cons.)	- - - -
5 G 8 (Soil Cons.)	- - - -
5 G 9 (Soil Cons.)	- - - -
G 10 (Soil Cons.) INACTIVE FILE	- - - -
G 11 (Soil Cons.) INACTIVE FILE	- - - -
G 12 (USSES)	Safford
G 13 (Soil Cons.) INACTIVE FILE	- - - -
G 17 (Soil Cons.) INACTIVE FILE	- - - -
G 18 (USSES)	Safford
5 G 19 (Soil Cons.)	- - - -
Lebanon (USSES)	Safford
Saffair (C&GS) ✓	Safford
5 Sanchez (USSES)	Safford
5 Sec Cor 1/7S/26E	Safford
5 Sec Cor 7½S/6S/28E	Safford
5 Sec Cor 12½E/8S/26E	Safford South.
5 Sec Cor 36/5S/25E	Safford
Sec Cor CC 1NE/6S/27E	Safford
5 Sec Cor 36/6S/25E (Soil Cons.)	- - - -
Sec Cor 36/7S/27E	Safford South.

Index Cont'd.

<u>Station</u>	<u>Project</u>
5 Slag (Soil Cons.)	- - - -
Sol (C&GS)	Safford South
Solomon (USSES)	Safford
Thatcher ✓	Safford
Webber Peak (Lone Star) (USSES)	Safford
Wick (C&GS) ✓	Safford South, Mt Graham
5 3-4 X	Safford
5 3-62 B	Safford

Mt Graham Project Master in Ariz. 90 - Book: PH 1576
 Safford Master in ARIZONA 112- Book: PH 604
 Safford South Master NONE - Book: PH 1094

Arizona (113)

Graham County

~~BM~~ BM "W" 40 1934" (C&GS)

1927 N.A.D.

USC&GS, 1945

L.B. Mansfield, 1958

Books: PH 603-604

Described by U.S. Coast and Geodetic Survey in Arizona
Level Line No. 24 as follows:

About 5.8 mi. E. along U.S. highway 70 from Solomonsville,
Graham County, about 0.4 mi. E. of an inspection station,
about 300 ft. E. of a "CONOCO" sign, and 45 ft. N. of the
center line of the hwy. A standard disk stamped "W 40 1934"
and set in the top of a concrete post.

Recovered by U.S. Coast and Geodetic Survey in Description
List No. ~~882~~, page 12. *32 109 4 - 1008*

Note by L.B.M., 1958: Station found as described and
all marks in good condition.

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

Signal Data:	Top white flag	11.2 ft.
	Top red X-tgt.	7.8
	Bottom red X-tgt.	5.3

PHOTO NO. 3F-30 (Panelled)

ARIZONA ZONE EAST

*X=691,987.63

*Y=667,295.55

*Elevation: 3197.159 ft.
(Spirit Leveling by C&GS in
Arizona Level Line No. 24)

*Latitude: 32°49'58.575"

*Longitude : 109°32'29.848"

*=Values by USC&GS

7-14-58 bsl /

7.11.58

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Arizona (113)

Graham County

BOMPT (CAGS)

1927 N.A.D.

USCGS, 1958

S.H. Schneider, 1958

Books: PH 603-604

Described by U.S. Coast and Geodetic Survey in Description
List No. ~~882~~, page ~~10~~. 32 109 4-1010

Note by S.H.S., 1958: Station found as described all
marks in good condition.

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

Signal data:	Top white flag	11.0 ft.
	Top red X-tgt.	7.7
	Bottom red X-tgt.	5.2

Photo No. 3B-7 (Paneled)

ARIZONA ZONE EAST

* V.A. Elevation: 3923 ft.

*X=696,446.60

*Y=702,433.58

* Latitude: 32°55'45.995"

* Longitude: 109°31'35.092"

*=Values by USC&GS

2-2-60 mw ✓

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Arizona (113)

Graham County

SAFFAIR (C&GS)

1927 N.A.D.

USC&GS, 1945

R.N. Gardner, 1958

Books: PH 603-604

Described by U.S. Coast and Geodetic Survey in Description
List No. ~~882~~, page 10. *32 109 4 - 1022*

Note by R.N.G., 1958: Station found as described and
all marks in good condition.

Signal: Beacon tower with red over white X-targets under
walkway approximately centered over station mark.

Signal Data:	Top light	56.4 ft.
	Bottom light	53.3
	Walkway	49.8
	Top red X-tgt.	45.6
	Between X-tgts.	43.3
	Bottom white X-tgt.	41.6

Image Point No. 1: SE. corner of hangar, 514 ft. from
station mark and 2 ft. higher in azimuth $254^{\circ}23'$.

Image Point No. 2: SW. corner of small building, 42 ft.
from station mark and at the same elevation in azimuth $159^{\circ}39'$.

PHOTO. NO. 3B-29

ARIZONA ZONE EAST

*X=662,492.85

*Y=673,645.71

*Elevation: 3158.173 ft.
(Spirit Leveling by USC&GS
in Arizona Level Line
No. AP 18.)

*Latitude: $32^{\circ}51'03.004''$

*Longitude: $109^{\circ}38'15.149''$

*=Values by USC&GS

7-14-58 bsl /

7-14-58

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Arizona (113)

Graham County

SQL (C&GS)

1927 N.A.D.

USC&GS, 1945

Books: 603-604

L.B. Mansfield, 1958

W.B. Cook, 1965 (n)

Described in U.S. Coast and Geodetic Survey Description List No. 882, page 12.

1094-1025

ARIZONA ZONE EAST

*V.A. Elevation: 3496 ft.

*X=699,668.41

Y=659,134.93

*Latitude 32°48'37.368"

Longitude 109°31'00.420"

<u>To Station</u>	<u>Azimuth</u>	<u>Back Azimuth</u>	<u>Feet</u>
Sec Cor 36/78/27E	13°36'12.67"	193°35'51.77"	14,007.86
*Eleven (USSES)	16 58 37.07	196 57 33.88	34,165.2
*Jones (USSES)	55 33 35.72	235 30 04.55	40,396.0
*Ash Peak (USFS)	285 09 25.84	105 17 43.61	81,350.4
*Seth (C&GS)	303 01 10.84	123 04 53.70	41,931.3
*Lorenzo (C&GS)	337 28 23.78	157 28 58.63	14,340.1
*Dry Mtn. (USFS)	343 07 18.94	163 08 44.41	46,508.2

*n Values by USC&GS
(n) = Not Occupied

8/5/65 slh

FILE COPY

Arizona 113

Arizona (113)

Graham County

THATCHER

1927 N.A.D.

Books: PH 603-604

USSES 1935
USSES 1945
L. L. Brown 1958
M. N. Gardner 1960

32 1094-1026

Located about 5-1/2 mi. (airline) ESE of Pima, 3-1/2 mi. NNW of Safford and 2-1/2 mi. NNE of Thatcher. It is on top of a bluff NE. of the Gila River and about 0.1 mi. SW. of Graham Cemetery.

To reach from Graham County Court House in Safford, go N. on U. S. Highway 70 for 0.1 mi.; continue straight ahead on gravel rd.; where U. S. Hwy 70 turns west. Go 3.5 mi. to rd. turning off on right; turn right and follow rd. up the bluff for 0.2 mi. to top and Graham Cemetery; turn sharp left and go SW. along the SE. side of the edge of the bluff for 0.1 mi. to station.

Station Mark: U.S. Soil Erosion Service brass cap set in top of a concrete post projecting 0.3 ft. above ground, stamped "THATCHER 1935"

Reference Mark No. 1: Bronze reference disk set in a concrete post; stamped "THATCHER USSES NO 1 1945"

Reference Mark No. 2: Bronze reference disk set in a concrete post N. of the station; stamped "THATCHER USSES NO 2 1945"

Signal is a fluorescent flag over a fluorescent flag centered over station mark.

Signal data: Top fluor. flag 10.5 ft.
Center fluor. flag 7.4
Bottom fluor. flag 5.4

ARIZONA ZONE EAST

V. A. Elevation 3016. ft.

*X= 631,765.86

Y= 683,064.32

*Latitude: 32°52'37.582" Longitude: 109°44'14.893"

** Values by C&GS

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3-8-60 es ✓

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UNITED STATES
DEPARTMENT OF THE INTERIOR
Geological Survey
Form No. 9-3223 Rev. 1968

DESCRIPTION
HORIZONTAL CONTROL STATION

DIAGRAM Silver City
USGS QUAD NO 113

1st Order

Triangulation

Electronic - Distance Traverse

Intersected Object

Station WICK

County Graham

State AZ

Established by C&GS

Year 1945

Project _____

Check one:

New Station: Write full description below

PH 604

PH 1094

Recovery of Old Station: Recovered by _____

USGS

Year 1972

Project PH 1576

Object	Bearing	Distance		Directions
		Feet	Meters	
RM's not observed in 1972.				

Described in U.S. Coast and Geodetic Survey description list 32 109 4, station 1028. All marks in good condition.

C&GS Adjusted Coordinates

ARIZONA EAST ZONE

ELEV 3107.0 FT

X= 639835.72

Y= 650027.03

MAPPING ANGLE=+0 14 47

WICK

LAT 32 47 10.3370

LONG 109 42 41.9350

SEP 1 1972

Ariz. 113
32° 45'
109° 30'
G-9

Arizona (113)

Graham County

1927 N.A.D.

Soil Conservation

FILE COPY

Go N. from the Court House, in Safford, 1.7 mi. (0.15 mi. beyond the Graham Canal) to the road forks (the Graham and San Juan roads). Turn right N. on the San Juan Mine road, and bearing NNE. 1.65 mi. to a road fork opposite a burnt car. Turn right NE. and follow this (Sanchez) road 4.8 mi. Turn right SW. across the mesa, keeping to the high ground above the heads of arroyos, 1.25 mi. to a break in the mesa. Turn left S. 0.5 mi. to a faint road near the edge of the mesa. Turn right WNW. 0.25 mi. Turn left S. 0.2 mi. to the edge of the mesa. The station, a standard brass plate set in concrete lies 100 yds. E. of this point.

ARIZONA ZONE EAST

X= 658.607
Y= 666,712

Elevation: 3047 ft.

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Latitude: 32°49'54.59" Longitude: 109°39'01.10"

10/18/57 jk
m.m.

NAD 83 VALUES AVAILABLE

Arizona(113)

Graham County

Orig. 113
32° 45'
109° 30'
G-8

1927 N.A.D.

Soil Conservation
FILE COPY

Go N. from the Court House, in Safford, 1.7 mi. to the road forks (Graham and San Juan Mine roads). Turn right N. on the San Juan Mine road, and bear NNE. 1.65 mi. to a road fork opposite a burnt car. Turn right NE. and follow this (Sanchez) road 4.8 mi. Turn right SW. across the mesa, keeping to the high ground above heads of arroyas, 1.25 mi. to a break in the mesa. Turn left S. 0.5 mi. to a faint road near the edge of the mesa and near Station G-9. Turn right WNW. and bear W. 1.95 mi. across the mesa to its edge and to the station, a standard brass plate set in concrete.

ARIZONA ZONE EAST

X= 650,262
Y= 668,899

FILE COPY

Latitude: 32°50'16.62" Longitude: 109°40'38.78"

10/18/57 Jk ✓
m. m.
NAD 83 VALUES AVAILABLE

Arizona (113)

Graham County

G 12 (USSES)

1927 N.A.D. (Prelim.)

USSES, 1935

W.R. Brown, 1958

Books: PH 603-604

Described by U.S. Soil Erosion Service as follows:

To reach go N. from the Court House, in Safford, 1.7 mi. to the rd. forks (the Graham and the San Juan Mine roads); turn right (N.) on the San Juan Mine road, (bearing NNE.) 1.65 mi. to a rd. fork opposite a burnt car; turn right (NE.) and follow this (Sanchez) rd. 5.25 mi. (ESE.) to a point, at the edge of the mesa, near Sec. Cor. $\left(\begin{array}{c} 1 \\ 12 \end{array} \mid \begin{array}{c} 6 \\ 7 \end{array}\right)$ in T. 7 S., R. 26-27 E. (Due S. from Lone Star $\left(\begin{array}{c} 1 \\ 12 \end{array} \mid \begin{array}{c} 6 \\ 7 \end{array}\right)$ Pk. and due N. from the main street in Solomonsville); continue S., on this rd., 0.6 mi. to an E. and W. rd.; turn left (E.) 1.25 mi. to a cattle guard; continue 0.1 mi. to a house. The station lies on the hillside about 250 yds. N. of this point and about 100 yds. NW. of the point where the rd. and ditch come together and against the hillside.

Station Mark: Standard USSES brass plate set in concrete.

Note by W.R.B., 1958: Station found as described and station mark in good condition.

Signal: None.

Image Point No. 1: House, 730 ft. from station mark in azimuth $9^{\circ}21'$.

Image Point No. 2: T-rd., 980 ft. from station mark and 78 ft. lower in azimuth $32^{\circ}13'$.

PHOTO. NO. 3F-29 (Duplicate)

ARIZONA ZONE EAST

X=672,393.

Y=667,732.

Elevation : None.

**Latitude: $32^{\circ}50'.03.98''$

**Longitude: $109^{\circ}36'19.46''$

**=Values by USSES

FILE COPY

7-14-58 bsl ✓

me. m.

Arizona (113)

Graham County

LEBANON (USSES)

1927 N.A.D. (Prolim.)

U.S.S.E.S., 1935

W.L. Settlemyer, 1958

Books: PH 603-604

Described by U.S. Soil Erosion Service as follows:

"To reach from Safford, go S. on Highway 81 for 5.5 mi. from the jct. of Highway 180 to an old rd. to the E. (This point is known locally as Cactus by some and as Lebanon by others, but is known as Algodon on the State map.); turn E. on this old rd. 0.7 mi. to the S. side of the highest of two buttes. The station lies on the W. end of the top of this butte.

"Station Mark: Standard U.S.S.E.S. brass plate set in concrete."

Note by W.L.S., 1958: Station mark in good condition.

Signal: White flag over red X-tgt. centered over station mark.

Signal Data:	Top white flag	11.3 ft.
	Top red X-tgt.	7.4
	Bottom red X-tgt.	4.9

Image Point No. 1: Lone bush, 583 ft. from station mark and 78 ft. lower in azimuth 79°13'.

Image Point No. 2: Lone tree, 765 ft. from station mark and 91 ft. lower in azimuth 358°02'.

PHOTO NO.: 3F-40

ARIZONA ZONE EAST
X=640,921.
Y=637,133.

V.A. Elevation: 3239. ft.

**Latitude: 32°45'02.70

**Longitude: 109°42'29.88"

** = Values by U.S.S.E.S.

NAD 83 VALUES AVAILABLE

7-14-58 mm ✓
7:14

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Arizona (113)

Graham County

SANCHEZ (USSES)

1927 N.A.D. (Prelim.)

U.S.S.E.S., 1934

W. R. Brown, 1958

Books: PH 603-604

Described by U.S. Soil Erosion Service as follows:

"To reach from Solomonsville, go E. 4.2 mi. on Highway 180 to the Sanchez School Road. (There are two rds. 100 yds. apart, take the second rd.); turn NE. on a good meandering rd. for 2.7 mi. to the ford across the Gila River at the intake of the San Jose Canal; cross the river and continue on this meandering rd. 0.8 mi. to a large square adobe house; go left of this house and turn W. over an old rd. 0.3 mi. to the Carpenter Mine Road; turn N. and go 0.8 mi. to the old mine site. Climb the E. slope of the Black Butte to the NW. from the mine. The station lies SW. from the highest point."

Station Mark: Drilled bolt in large boulder.

Note by W.R.B., 1958: Station found as described and all marks in good condition.

Station reached by helicopter.

Signal: White flag over red X-target nailed to quadripod centered over station mark.

Signal Data:	Top white flag	13.7 ft.
	Bottom white flag	10.7
	Top red X-tgt.	9.0
	Bottom red X-tgt.	6.5

PHOTO NO.: 3B-18 (Paneled)

ARIZONA ZONE EAST

X=684,858.

Y=688,205.

V.A. Elevation: 4524. ft.

**Latitude: 32° 53' 25.90"

**Longitude: 109° 33' 52.00"

** = Values by U.S.S.E.S.

NAD 83 VALUES AVAILABLE

7-14-58 mm

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Arizona (113)

Graham County

1/75/26E

SEC. COR. 1,6,7,12,
T. 7 S., Rs. 26-27 E.

1927 N.A.D. (Unadj.)

S.H. Schroeder, 1958

Books: PH 603-604

Not described.

Station Mark: Iron pipe.

Signal: None.

ARIZONA ZONE EAST

X=664,820.

V.A. Elevation: 3161. ft.

Y=671,674.

Latitude: 32°50'43.38"

Longitude: 109°37'47.99"

To Station

Azimuth

Back Azimuth

Feet

Sanchez (USSES)

230°46'14."

50°48'22."

25,978.

Sol (C&GS)

290 04 52.

110 08 33.

37,038.

NAD 83 VALUES AVAILABLE

7-15-58 bs1

Jim J...

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✓

ARIZONA 113

ARIZONA (113)

Graham County

SEE COR 74S/6S/28E
S.H. Schroeder, 1958

1927 N.A.D. (Unadj.)

Books: PH 603-604

Not described.

Signal: none.

PHOTO NO. Not identified.

ARIZONA ZONE EAST
X=698,653.
Y=698,136.

V.A. Elevation: 3794. ft.

Latitude: 32°55'03.34."

Longitude: 109°31'09.52"

<u>To Station:</u>	<u>Azimuth</u>	<u>Back Azimuth</u>	<u>Feet.</u>
Gilabox (C&GS)	259°33'56."	79°37'46."	36,649.
Sol (C&GS)	358 51 35.	178 51 40.	39,017

2-26-60 mw kj

NAD 83 VALUES AVAILABLE

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Arizona (113)

Graham County

SEC COR 12 $\frac{1}{4}$ E/8S/26E

1927 N.A.D. (Unadj.)

W.B. Cook, 1965 (n)

Book: FH 1094

For location see description of "JONES (USSES)" in U. S. Coast and Geodetic Survey Description List No. 882, page 13.

Station mark: A BLM brass cap quarter corner stamped "T8S R26E $\frac{1}{4}$ 12 R27E $\frac{1}{4}$ 7".

Signal data: Top of lath 2.75 ft.

Note: This station was computed from unchecked measured distance. Do not symbolize with triangle symbol.

Photo No.: 1-19

ARIZONA ZONE EAST
X=665,052
Y=637,406

V.A. Elevation: 3120 ft.

Grid Values

<u>To Station</u>	<u>Azimuth</u>	<u>Back Azimuth</u>	<u>Feet</u>
Jones (USSES)	312°25'26"	132°25'26"	1955.87

NAD 83 VALUES AVAILABLE

Conversion from state plane to geodetic coordinates

Station = sc121/4e8s/26e	State Plane Zone = 201
Lat = 32 45 04.2799	Lon = 109 37 47.3063
X = 665,052.0000	Y = 637,406.0000

(n) = not occupied

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4/1/65 do *WLB*

ARIZONA 113

36/55/25E

Arizona (113)

Graham County

(GLO) SC 36, 31, T5S, R25-26E

1927 N.A.D. (Preliminary)

R.N. Gardner 1960

Books: PH 603-604

Located about 8 mi. N. of Safford at the SE corner of Sec. 36, T5S, R25E.

Reached from Safford P.O. by going W. of U.S.Hwy. 70 for 0.2 mi., turn right on 8th St. and go 1.5 mi.; take left fork and go 4.9 mi.; turn right just west of large sand wash and go 0.55 mi.; take right fork and go 1.05 mi.; pass through wire gate and continue 1.3 mi. to a windmill, pass around E. side of windmill and follow dim track road N. for 0.25 mi. to large drain, go NE. along edge of drainage for 1.05 mi.; turn E. and continue cross-country for 0.8 mi. to station

Station Mark: Top of GLO pipe W/cap stamped "T5S R25E R26E S36 S31 1920" and projecting 1.5 ft. above ground.

Signal: Fluorescent flag over white flag over a fluor. flag centered over station mark.

Signal data:	Top fluor.flag	11.4 ft.
	Center F/W flag	9.3
	Center W/F flag	7.2
	Bottom white flag	4.7

Photo No.--

ARIZONA ZONE EAST.

V.A.Elevation 3517. ft.

X= 635,349.

Y= 708,437.

STATE GRID ZONE
 AZ East 36.000
 325648.501
 1094331.633
 Y=N=
 708437.000
 X=E=
 635349.000

FILE COPY

NAD 83 VALUES AVAILABLE

3-3-60 es

ARIZONA 113

Arizona (113)

Graham County

SEC 011 CO 1111/6S/27E

T. 27 S., R. 27-28 E.

1927 N.A.D. (Unadj.)

S.H. Schroeder, 1958

Books: PH 603-604

Not described.

Station mark: Standard G.L.O. iron pipe with cap.

Signal: Flag

Signal data: Top of flag 4.0 ft.

PHOTO NO. Not identified.

ARIZONA ZONE EAST

V.A. Elevation: 4031 ft.

X=696,088.

Y=708,633.

Latitude: 32°56'47.36"

Longitude: 109°31'38.86"

<u>To Station</u>	<u>Azimuth</u>	<u>Back Azimuth</u>	<u>Feet.</u>
Webber Pk.	90°13'21."	270°10'05."	30,781
Highest Pk.	187 10 26.	7 10 52.	32,197.

2-26-60 mw VED

FALE COPY
NAD 83 VALUES AVAILABLE

FILE COPY

Aug. 113

32°45'
109°30'

36/65/25E

ARIZONA (113)

Graham County

T6S R25E | R26E
T7S

1927 N.A.D.

Soil Conservation

No description available.

NOT PLATTED CD
gh

ARIZONA ZONE EAST:

X = 633,403.

Y = 676,873.

Latitude: 32°51'36.25"

Longitude: 109°43'55.99"

NAD 83 VALUES AVAILABLE

FILE COPY

Arizona (119)

Graham County

SEC COR 36/78/27E

1927 N.A.D. (Adj.)

W.M. Book, 1965

Book: PH 1094

Located about 11 mi. SE. of Safford; 0.5 mi. S. of U.S. Highway 70; 0.25 mi. S. of a natural gas pipeline; in a N.-S. fence.

Station mark: A GLO pipe and cap stamped "1 6 31 36-47-887R27-28E" projecting 1 ft. above the ground.

Note: This station was computed from checked triangles. Station should be symbolized with triangle symbol.

ARIZONA ZONE EAST

V.A. Elevation: 3262 ft.

X=696,457.6

Y=615,500.8

$\Delta \alpha = +0^{\circ}20'46''$

Latitude: $32^{\circ}46'22.653''$

Longitude: $109^{\circ}31'39.005''$

<u>To Station</u>	<u>Azimuth</u>	<u>Back Azimuth</u>	<u>Feet</u>
Sol (C&GS)	193° 35' 51.77"	13° 36' 12.67"	11,007.86
Lorenzo (C&GS)	267 35 28.35	87 36 24.06	8,796.33
Seth (C&GS)	283 29 53.40	103 33 57.03	39,546.69
Dry Mtn. (USFB)	331 27 26.52	151 29 12.81	35,161.81

NAD 83 VALUES AVAILABLE

FILE COPY

8/5/85

Handwritten signature

FILE COPY

32 45
109 30
Orig. 113

ARIZONA (113)

Graham County

SLAG

1927 N.A.D.

Soil Conservation

Go East from Solomonville on Highway 180 6.6 mi. to a point. This point lies on Range line T7S We have flagged a section corner just .

R27E | R28E
S-12 | S-7

S. of this point. Turn S. from this point 0.8 mi. to the second Old Duncan road; turn E. on the abandoned road 0.7 mi. to a point where this old road is about to cross a dry wash. From this point the station lies on a low hill about 0.5 mi. in A. 198°. The station is an iron pin in a bedded boulder held in place by a rock cairn.

ARIZONA ZONE EAST:

X = 698,320.

Y = 660,029.

Latitude: 32°48'46.30"

Longitude: 109°31.16.16"

NAD 83 VALUES AVAILABLE

FILE COPY

Arizona (113)

Graham County

SOLOMON (USSES)

1927 N.A.D. (Prelim.)

U.S.S.E.S., 1934

W.R. Brown, 1958

Books: PH 603-604

Described by U.S. Soil Erosion Service as follows:

"To reach from the Court House in Safford, go due N. for 1.7 mi. to the jct. of the Graham Road; (in case of high water cross the bridge N. of Pima and go 0.2 mi. to the Graham rd.); turn E. on the Graham rd. (main rd.) 9.2 mi. to the jct. first described; go N. on the San Juan Mine Road 1.8 mi. to the jct. of the Sanchez rd. (An old burnt car lies just S. of this point); turn right on the Sanchez rd. 2.9 mi. to a point due S. of Lone Star Pk.; turn S. across the mesa 1.1 mi. to a point; turn SW. (toward Graham Mtn.) across the mesa to the station which lies on a low ridge 0.5 mi. N. of Dry Lake. (No pack.)

"Station Mark: Standard U.S. Soil Erosion Service brass plate set in concrete."

Note by W.R.B., 1958: Station found as described and all marks in good condition.

Signal: White flag over red X-tgt. on 2x2x8 pole centered over station mark.

Signal Data:	Top white flag	10.8 ft.
	Bottom white flag	8.1
	Top red X-tgt.	6.7
	Bottom red X-tgt.	4.3

PHOTO NO.: 3B-19 (Paneled)

ARIZONA ZONE EAST

X=653,163. 653, 146

Y=673,798. 673, 793

V.A. Elevation: 3120. ft.

Latitude: 32° 51' 04.⁹¹96"

Longitude: 109° 40' 04.⁷¹50"

<u>To Station</u>	<u>Azimuth</u>	<u>Back Azimuth</u>	<u>Feet</u>
Wick (C&GS)	29° 32' 55."	209° 31' 30."	27,254.
Jones (C&GS)	340 47 58.	160 49 22.	40,002.

NAD 83 VALUES AVAILABLE

7-14-58 mm ✓

FILE COPY

Ariz. 113
32°45'
109°30'
G-19

Arizona(113)

Graham County

FILE COPY

Soil Conservation

1927 N.A.D.

Go E. from Solomonville, 4.2 mi. on Highway 180 to the Sanchez School road (the second road)..Turn left NE. on a good meandering road 2.7 mi. to the ford crossing the Gila River at the San Jose Canal intake. Pass over on this meandering road, 0.8 mi. to a large square adobe house. Turn right E. passing the Sanchez school on your left 0.3 mi. to a road fork. (Caution: A narrow and blind road lies ahead). Turn left, plainest road, 1.55 mi. to a cattle guard and road fork. Turn right 0.05 mi. to a road fork. Turn right 0.1 mi. to a gate and canal. Pass through and go 0.15 mi. SE. alongside a waste canal, to the river bank and the station, a standard brass plate set in concrete, which lies near a mesquite.

FILE COPY

ARIZONA ZONE EAST

X= 700,836

Y= 679,205

Elevation: 3077 ft.

Latitude: 32°51'55.89" Longitude: 109°30'45.28"

10/18/57 Jk ✓

m. m.

Arizona (113)

Graham County

3-4X

1927 N.A.D. (Unadj.)

W.L. Battlemeyer, 1958

Books: PH 603-604

Located about 10.0 mi. N-NW. of Safford and 8.0 mi. NE. of Pima, on highest point of a knob-like peak which overlooks the N. bench above the Gila River.

Station mark: A chiseled square in solid rock.

Signal: White flag over red X-tgt. on 2x2 pole centered over station mark.

Signal data:	Top white flag	11.3 ft.
	Top red X-tgt.	7.2
	Bottom red X-tgt.	4.7

Photo No. 3F-4 (pricked) Paneled and photographed.

ARIZONA ZONE EAST

V.A. Elevation: 4393 ft.

X=631,785.

Y=718,420.

Latitude: 32°58'27.43"

Longitude: 109°44'12.98"

<u>To Station</u>	<u>Azimuth</u>	<u>Back Azimuth</u>	<u>Feet</u>
Bryce (C&GS)	230°15'52."	50°18'00."	25,953.
Webber Pk.	286 36 50.	106 36 50	34,944.

1-29-60 / *W*

NAD 83 VALUES AVAILABLE

FILE COPY

FILE COPY

Arizona (113)

Graham County

1927 N.A.D. (Unadj.)

1.8. 1958

Books: PH 603-604

Located about 18 mi. E-NE of Pima, 13 mi. NE. of Safford and 4.0 mi. NE. of Webber Pk., on a small top among a group of tops.

Station reached by helicopter.

Station mark: A star drill driven in ground and projecting 0.6 ft. above ground.

Signal: White flag over red X-tgt. centered over station mark.

Signal data:	Top white flag:	11.1 ft.
	Bottom white flag:	8.0
	Top red X-tgt.	7.7
	Bottom red X-tgt.	5.2

Photo No. 3B-62 (Paneled)

ARIZONA ZONE EAST
X=675,036.
Y=718,996.

V.A. Elevation: 5221 ft.

Latitude: 32°58'31.09"

Longitude: 109°35'45.24"

<u>To Station</u>	<u>Azimuth</u>	<u>Back Azimuth</u>	<u>Feet</u>
Webber Pk.	43°18'54."	223°17'51."	14,262.
Bryce (C&GS)	124 52 32.	304 50 03.	28,372

NAD 83 VALUES AVAILABLE

2-4-60 mw ✓

FILE COPY

Arizona (113)

Graham County

G 6 (USSES) ✓

1927 N.A.D. (Prelim.)

USSES, 1935

W.R. Brown, 1958

Books: PH 603-604

Described by U.S. Soil Erosion Service as follows:

To reach go N. from the Court House, in Safford, 1.35 mi. to a rd. fork (old Sanchez road); turn right (E.) and follow the plainest rd. 0.5 mi. to a point just across an arroya. The station lies on the hillside about 25 ft. above the rd.

Station Mark: Standard USSES brass plate set in concrete.

Note by W.R.B., 1958: Station found as described and station mark in good condition.

Signal: None.

Image Point No. 1: Large bush, 113 ft. from station mark in azimuth $304^{\circ}39'$.

Image Point No. 2: Center line of rd., at light colored drain, 38 ft. from station mark and 11 ft. lower in azimuth $52^{\circ}40'$.

PHOTO NO. 3F-28 (Duplicate)

ARIZONA ZONE EAST

X=640,862.

Elevation: None.

Y=674,670.

**Latitude: $32^{\circ}51'14.14''$

**Longitude: $109^{\circ}42'28.66''$

**=Values by USSES

NAD 83 VALUES AVAILABLE

FILE COPY

7-14-58 bsl /

W.R.B.

AZ 113.0UT

North American Datum Conversion
 NAD 27 to NAD 83
 NADCON Program Version 1.01

=====
 Transformation #: 1 Region: Conus

Station name: G6 (USSES)

	Latitude		Longitude	
NAD 27 datum values:	32 51	14.140	109 42	28.660
NAD 83 datum values:	32 51	14.375	109 42	30.948
NAD 83 - NAD 27 shift values:		.235		2.288(secs.)
		7.244		59.501(meters)
Magnitude of total shift:				59.940(meters)

Transformation #: 2 Region: Conus

Station name: G7

	Latitude		Longitude	
NAD 27 datum values:	32 50	47.380	109 41	48.920
NAD 83 datum values:	32 50	47.616	109 41	51.207
NAD 83 - NAD 27 shift values:		.236		2.287(secs.)
		7.255		59.476(meters)
Magnitude of total shift:				59.917(meters)

Transformation #: 3 Region: Conus

Station name: G8

	Latitude		Longitude	
NAD 27 datum values:	32 50	16.620	109 40	38.780
NAD 83 datum values:	32 50	16.856	109 40	41.065
NAD 83 - NAD 27 shift values:		.236		2.285(secs.)
		7.263		59.429(meters)
Magnitude of total shift:				59.872(meters)

Transformation #: 4 Region: Conus

Station name: G9

	Latitude		Longitude	
NAD 27 datum values:	32 49	54.590	109 39	1.100
NAD 83 datum values:	32 49	54.826	109 39	3.382
NAD 83 - NAD 27 shift values:		.236		2.282(secs.)
		7.261		59.360(meters)
Magnitude of total shift:				59.803(meters)

Transformation #: 5 Region: Conus

Station name: G12 (USSES)

	Latitude		Longitude	
NAD 27 datum values:	32 50	3.980	109 36	19.460
NAD 83 datum values:	32 50	4.215	109 36	21.738
NAD 83 - NAD 27 shift values:		.235		2.278(secs.)
		7.228		59.243(meters)
Magnitude of total shift:				59.683(meters)

Transformation #: 6 Region: Conus

Station name: G18 (USSES)

	Latitude		Longitude	
NAD 27 datum values:	32 53	.550	109 30	38.480
NAD 83 datum values:	32 53	.779	109 30	40.751
NAD 83 - NAD 27 shift values:		.229		2.271(secs.)
		7.057		59.023(meters)
Magnitude of total shift:				59.443(meters)

Transformation #: 7 Region: Conus

Station name: G19

	Latitude		Longitude	
NAD 27 datum values:	32 51	55.890	109 30	45.280
NAD 83 datum values:	32 51	56.120	109 30	47.550
NAD 83 - NAD 27 shift values:		.230		2.270(secs.)
		7.099		59.018(meters)
Magnitude of total shift:				59.444(meters)

Transformation #: 8 Region: Conus

Station name: LEBANON (USSES)

	Latitude		Longitude	
NAD 27 datum values:	32 45	2.700	109 42	29.880
NAD 83 datum values:	32 45	2.943	109 42	32.167
NAD 83 - NAD 27 shift values:		.243		2.287(secs.)
		7.492		59.546(meters)
Magnitude of total shift:				60.016(meters)

Transformation #: 9 Region: Conus

Station name: SANCHEZ (USSES)

	Latitude		Longitude	
NAD 27 datum values:	32 53	25.900	109 33	52.000
NAD 83 datum values:	32 53	26.130	109 33	54.276
NAD 83 - NAD 27 shift values:		.230		2.276(secs.)
		7.072		59.151(meters)
Magnitude of total shift:				59.572(meters)

Transformation #: 10 Region: Conus

Station name: SEC COR 1/7S/26E

	Latitude	Longitude
NAD 27 datum values:	32 50 43.380	109 37 47.990
NAD 83 datum values:	32 50 43.614	109 37 50.271
NAD 83 - NAD 27 shift values:	.234	2.281(secs.)
	7.217	59.307(meters)
Magnitude of total shift:		59.744(meters)

Transformation #: 11 Region: Conus

Station name: SEC COR 71/4S/6S/28E

	Latitude	Longitude
NAD 27 datum values:	32 55 3.340	109 31 9.520
NAD 83 datum values:	32 55 3.567	109 31 11.793
NAD 83 - NAD 27 shift values:	.227	2.273(secs.)
	6.983	59.059(meters)
Magnitude of total shift:		59.470(meters)

Transformation #: 12 Region: Conus

Station name: SEC COR 121/4E/8S/26E

	Latitude	Longitude
NAD 27 datum values:	32 45 4.280	109 37 47.306
NAD 83 datum values:	32 45 4.521	109 37 49.585
NAD 83 - NAD 27 shift values:	.241	2.278(secs.)
	7.440	59.311(meters)
Magnitude of total shift:		59.776(meters)

Transformation #: 13 Region: Conus

Station name: 36/5S/25E

	Latitude	Longitude
NAD 27 datum values:	32 56 48.501	109 43 31.633
NAD 83 datum values:	32 56 48.729	109 43 33.923
NAD 83 - NAD 27 shift values:	.228	2.291(secs.)
	7.030	59.498(meters)
Magnitude of total shift:		59.911(meters)

Transformation #: 14 Region: Conus

Station name: SEC COR CC 1NE/6S/27E

	Latitude	Longitude
NAD 27 datum values:	32 56 47.360	109 31 38.860
NAD 83 datum values:	32 56 47.585	109 31 41.135
NAD 83 - NAD 27 shift values:	.225	2.275(secs.)
	6.921	59.089(meters)
Magnitude of total shift:		59.493(meters)

Transformation #: 15 Region: Conus

Station name: 36/6S/25E

	Latitude	Longitude
NAD 27 datum values:	32 51 36.250	109 43 55.990
NAD 83 datum values:	32 51 36.485	109 43 58.281
NAD 83 - NAD 27 shift values:	.235	2.291(secs.)
	7.243	59.559(meters)
Magnitude of total shift:		59.997(meters)

Transformation #: 16 Region: Conus

Station name: SEC COR 36/7S/27E

	Latitude	Longitude
NAD 27 datum values:	32 46 22.653	109 31 39.005
NAD 83 datum values:	32 46 22.891	109 31 41.273
NAD 83 - NAD 27 shift values:	.238	2.268(secs.)
	7.322	59.015(meters)
Magnitude of total shift:		59.468(meters)

Transformation #: 17 Region: Conus

Station name: SLAG

	Latitude	Longitude
NAD 27 datum values:	32 48 46.300	109 31 16.160
NAD 83 datum values:	32 48 46.535	109 31 18.429
NAD 83 - NAD 27 shift values:	.235	2.269(secs.)
	7.226	59.015(meters)
Magnitude of total shift:		59.456(meters)

Transformation #: 18 Region: Conus

Station name: SOLOMAN

	Latitude	Longitude
NAD 27 datum values:	32 51 4.910	109 40 4.710
NAD 83 datum values:	32 51 5.145	109 40 6.994
NAD 83 - NAD 27 shift values:	.235	2.284(secs.)
	7.226	59.402(meters)
Magnitude of total shift:		59.840(meters)

Transformation #: 19 Region: Conus

Station name: 3-4X

	Latitude	Longitude
NAD 27 datum values:	32 58 27.430	109 44 12.980
NAD 83 datum values:	32 58 27.656	109 44 15.272
NAD 83 - NAD 27 shift values:	.226	2.292(secs.)
	6.970	59.506(meters)
Magnitude of total shift:		59.913(meters)

Transformation #: 20 Region: Conus

Station name: 3-62B

	Latitude		Longitude	
NAD 27 datum values:	32 58	31.090	109 35	45.240
NAD 83 datum values:	32 58	31.314	109 35	47.521
NAD 83 - NAD 27 shift values:		.224		2.281(secs.)
		6.891		59.233(meters)
Magnitude of total shift:				59.632(meters)

Transformation #: 21 Region: Conus

Station name: WEBBER PK (LONE STAR)

	Latitude		Longitude	
NAD 27 datum values:	32 56	48.400	109 37	40.050
NAD 83 datum values:	32 56	48.626	109 37	42.333
NAD 83 - NAD 27 shift values:		.226		2.283(secs.)
		6.976		59.296(meters)
Magnitude of total shift:				59.705(meters)

REPORT ON PERMANENT SURVEY MARK MAP INFORMATION OFFICE

113

STATE ARIZONA COUNTY COCHISE QUADRANGLE 113
 QUOTE PRIMARY REFERENCE N 1/4 Sec 10 T 18 N R 12 E
 (Direction and distance)

DESIGNATION { LISTED 113
 STAMPED 2500.000 V 14 1952 TYPE OF MARK: BM TT TRIANG.

Lat. 31 50 29 " CONDITION
 Long. 110 50 29 " Disturbed
 Elev. 2500.000 feet Destroyed USGS ESTABLISHED BY
 Not Found USC&GS USBR
 USNPS State GS
 USGLO USNFS
 USBLM (Other)

REMARKS OR REVISED DESCRIPTION:
 At Safford Municipal Airport, Cochise County, Ariz. ...
 2.4 ft. west of a ... station ...
 and set in a concrete post projecting 0.2 ft. above ground.

SUBMITTED BY D. B. Grubbs
 TITLE USGS DATE March 1952
 AGENCY USGS

Marks found in good condition need not be reported.
 GPO 16-54252-6 FILL IN ALL AVAILABLE INFORMATION

Please prepare in triplicate.

REPORT ON PERMANENT SURVEY MARK MAP INFORMATION OFFICE

113

STATE ARIZONA COUNTY COCHISE QUADRANGLE 113
 QUOTE PRIMARY REFERENCE N 1/4 Sec 10 T 18 N R 12 E
 (Direction and distance)

DESIGNATION { LISTED 113
 STAMPED 2500.000 V 14 1952 TYPE OF MARK: BM TT TRIANG.

Lat. 31 50 29 " CONDITION
 Long. 110 50 29 " Disturbed
 Elev. 2500.000 feet Destroyed USGS ESTABLISHED BY
 Not Found USC&GS USBR
 USNPS State GS
 USGLO USNFS
 USBLM (Other)

REMARKS OR REVISED DESCRIPTION:
 The bot. half of the concrete post was found, but top half with the
 tablet was gone.

SUBMITTED BY D. B. Grubbs
 TITLE USGS DATE March 1952
 AGENCY USGS

Marks found in good condition need not be reported.
 GPO 16-54252-6 FILL IN ALL AVAILABLE INFORMATION

Please prepare in triplicate.

REPORT ON PERMANENT SURVEY MARK MAP INFORMATION OFFICE

113

STATE Arizona COUNTY Maricopa QUADRANGLE Safford
QUOTE PRIMARY REFERENCE Safford, 1.5 mi. west of
(Direction and distance)

DESIGNATION { LISTED 2-14
STAMPED 2924.300 2-14 1932 TYPE OF MARK: BM X TT _____ TRIANG. _____

Lat. _____ ° _____ ' _____ " CONDITION
Disturbed ESTABLISHED BY
Long. _____ ° _____ ' _____ " Destroyed USGS USBR
Elev. 2924.300 feet Not Found USC&GS State GS
USNPS USNFS
USGLO } (Other)
USBLM }

REMARKS OR REVISED DESCRIPTION:

A search of the area was made of the area described, but the bench mark was not recovered. A considerable amount of construction work has been done on both the irrigation canal and the railroad in this area and it appears the bench mark has been destroyed.

SUBMITTED BY D. H. Grabel DATE March 1963
TITLE Carto. rec.
AGENCY USGS

Marks found in good condition need not be reported.

FILL IN ALL AVAILABLE INFORMATION

Please prepare in triplicate.

REPORT ON PERMANENT SURVEY MARK MAP INFORMATION OFFICE

113

STATE Arizona COUNTY Maricopa QUADRANGLE Safford
QUOTE PRIMARY REFERENCE Safford, 1.5 mi. west of
(Direction and distance)

DESIGNATION { LISTED 2-14
STAMPED 3080.600 TYPE OF MARK: BM X TT _____ TRIANG. _____

Lat. _____ ° _____ ' _____ " CONDITION
Disturbed ESTABLISHED BY
Long. _____ ° _____ ' _____ " Destroyed USGS USBR
Elev. 3080.600 feet Not Found USC&GS State GS
USNPS USNFS
USGLO } (Other)
USBLM }

REMARKS OR REVISED DESCRIPTION:

A considerable amount of earth has been removed from the area described to repair the erosion along the tracks and around the bridge. No trace of the bench mark was recovered and it is assumed it has been either destroyed or covered over.

SUBMITTED BY D. H. Grabel DATE March 1963
TITLE Carto. rec.
AGENCY USGS

Marks found in good condition need not be reported.

FILL IN ALL AVAILABLE INFORMATION

Please prepare in triplicate.

REPORT ON PERMANENT SURVEY MARK MAP INFORMATION OFFICE

113

STATE Arizona COUNTY Maricopa QUADRANGLE 113000
 QUOTE PRIMARY REFERENCE 1-14-1963
 (Direction and distance)

DESIGNATION { LISTED 1-14-1963
 STAMPED 1-14-1963 TYPE OF MARK: BM TT TRIANG.

Lat. ° ' " CONDITION
 Long. ° ' " Disturbed
 Elev. feet Destroyed USGS USBR
 Not Found USC&GS State GS
 USNPS USNFS
 USGLO (Other)
 USBLM

REMARKS OR REVISED DESCRIPTION:

From the intersection of rd. 0.7 mi. south on paved rd. to rd. a
 turn left and continue on paved rd., cross the bridge over the
 river. Turn left and go to the railroad crossing, 0.2 mi. south of the
 maintenance road along the west side of the tracks, continue on maintenance
 road for 0.7 mi. to intersection of a track road west, 42 ft. S. of the
 centerline of the tracks, 12 ft. N. cornering track road, a standard high
 set iron in a concrete post.

SUBMITTED BY
 TITLE
 AGENCY DATE

Marks found in good condition need not be reported.

FILL IN ALL AVAILABLE INFORMATION

Please prepare in triplicate.

REPORT ON PERMANENT SURVEY MARK MAP INFORMATION OFFICE

113

STATE Arizona COUNTY Maricopa QUADRANGLE 113000
 QUOTE PRIMARY REFERENCE
 (Direction and distance)

DESIGNATION { LISTED
 STAMPED TYPE OF MARK: BM X TT TRIANG.

Lat. ° ' " CONDITION
 Long. ° ' " Disturbed
 Elev. 2150.004 feet Destroyed USGS USBR
 Not Found USC&GS State GS
 USNPS USNFS
 USGLO (Other)
 USBLM

REMARKS OR REVISED DESCRIPTION:

A search was made for the bench mark, but was not recovered.
 The airport manager remembered seeing it, but the exact location
 in the description was destroyed by the wind and was rebuilt.
 It appears the manger was enlarged by several feet each direction
 and the bench mark has been covered over.

SUBMITTED BY
 TITLE
 AGENCY DATE March 1963

Marks found in good condition need not be reported.

FILL IN ALL AVAILABLE INFORMATION

Please prepare in triplicate.

REPORT ON PERMANENT SURVEY MARK MAP INFORMATION OFFICE

113

STATE California COUNTY Orange QUADRANGLE 211 6000
 QUOTE PRIMARY REFERENCE 211 6000
 (Direction and distance)

DESIGNATION { LISTED ---
 STAMPED --- TYPE OF MARK: BM --- TT --- TRIANG. ---

Lat. 33° 55' 00" CONDITION Disturbed
 Long. 117° 55' 00" Destroyed ESTABLISHED BY USGS USBR
 Elev. 100 feet Not Found USC&GS State GS
 USNPS USNFS
 USGLO (Other)
 USBLM

REMARKS OR REVISED DESCRIPTION:

[Faint handwritten notes in the remarks section]

SUBMITTED BY --- DATE April 1965
 TITLE ---
 AGENCY ---

Marks found in good condition need not be reported.

FILL IN ALL AVAILABLE INFORMATION

Please prepare in triplicate.

REPORT ON PERMANENT SURVEY MARK MAP INFORMATION OFFICE

113

STATE California COUNTY Orange QUADRANGLE 211 6000
 QUOTE PRIMARY REFERENCE 211 6000
 (Direction and distance)

DESIGNATION { LISTED ---
 STAMPED --- TYPE OF MARK: BM --- TT --- TRIANG. ---

Lat. 33° 55' 00" CONDITION Disturbed
 Long. 117° 55' 00" Destroyed ESTABLISHED BY USGS USBR
 Elev. 100 feet Not Found USC&GS State GS
 USNPS USNFS
 USGLO (Other)
 USBLM

REMARKS OR REVISED DESCRIPTION:

[Faint handwritten notes in the remarks section]

SUBMITTED BY --- DATE April 1965
 TITLE ---
 AGENCY ---

Marks found in good condition need not be reported.

FILL IN ALL AVAILABLE INFORMATION

Please prepare in triplicate.

113

REPORT ON PERMANENT SURVEY MARK MAP INFORMATION OFFICE

STATE Arizona COUNTY Coconino QUADRANGLE Coconino

QUOTE PRIMARY REFERENCE Coconino, 1.3 mi. north of
 (Direction and distance)

DESIGNATION { LISTED 5 226
 STAMPED 5 226 1542 TYPE OF MARK: BM x TT _____ TRIANG. _____

Lat. _____° _____' _____"	CONDITION	ESTABLISHED BY
Long. _____° _____' _____"	Disturbed <input type="checkbox"/>	USGS <input type="checkbox"/> USBR <input type="checkbox"/>
Elev. <u>7542.333</u> feet	Destroyed <input checked="" type="checkbox"/>	USC&GS <input type="checkbox"/> State GS <input type="checkbox"/>
	Not Found <input type="checkbox"/>	USNPS <input type="checkbox"/> USNFS <input type="checkbox"/>
		USGLO <input type="checkbox"/> (Other) <input type="checkbox"/>
		USBLM <input type="checkbox"/>

REMARKS OR REVISED DESCRIPTION:

The entire concrete monument is unprotected and the tablet has also been removed.

SUBMITTED BY W. G. ...
 TITLE Coconino
 AGENCY ...

DATE March 1983

Marks found in good condition need not be reported.

FILL IN ALL AVAILABLE INFORMATION

Please prepare in triplicate.

REPORT ON PERMANENT SURVEY MARK

AREA OFFICE

STATE Arizona COUNTY Graham QUADRANGLE Safford

QUOTE PRIMARY REFERENCE At Solomon railroad station.
(Direction and distance)

DESIGNATION { LISTED 2979 (USGS)
STAMPED 2978.406 PHNX TYPE OF MARK: BM TT _____ TRIANG. _____

Lat. _____ ° _____ ' _____ " CONDITION Disturbed
Long. _____ ° _____ ' _____ " Destroyed USGS USBR
Elev. 2978.472 feet Not Found USC&GS State GS
USNPS USNFS
USGLO } (Other)
USBLM }

REMARKS OR REVISED DESCRIPTION:

The station and the siding at the area has been removed and the ground leveled and graded. The area 150 ft west of the station site is under cultivation. No trace of the iron pipe or the cap could be found and it is considered to be destroyed.

SUBMITTED BY D.R. Gruben
TITLE Carto. Tec.
AGENCY USGS

DATE March 1983

Marks found in good condition need not be reported.

FILL IN ALL AVAILABLE INFORMATION

Please prepare in triplicate.

REPORT ON PERMANENT SURVEY MARK

AREA OFFICE

STATE Arizona COUNTY Graham QUADRANGLE Safford

QUOTE PRIMARY REFERENCE Soloman Station, 2.5 miles southeast of.
(Direction and distance)

DESIGNATION { LISTED T-14
STAMPED 3030.939 TYPE OF MARK: BM TT _____ TRIANG. _____

Lat. _____ ° _____ ' _____ " CONDITION Disturbed
Long. _____ ° _____ ' _____ " Destroyed USGS USBR
Elev. 3030.939 feet Not Found USC&GS State GS
USNPS USNFS
USGLO } (Other)
USBLM }

REMARKS OR REVISED DESCRIPTION:

A considerable amount of earth has been removed from the area described to repair the erosion along the tracks and around the trestle. No trace of the bench mark was recovered and it is assumed it has been either destroyed or covered over.

SUBMITTED BY D.R. Gruben
TITLE Carto. Tec.
AGENCY USGS

DATE March 1983

Marks found in good condition need not be reported.

FILL IN ALL AVAILABLE INFORMATION

Please prepare in triplicate.

REPORT ON PERMANENT SURVEY MARK

AREA OFFICE

STATE Arizona COUNTY Graham QUADRANGLE NK San Jose
 QUOTE PRIMARY REFERENCE Solomon, 5.1 miles southeast of.
 (Direction and distance)

DESIGNATION { LISTED 3195 PHIX
 STAMPED 3195 Phix TYPE OF MARK: BM X TT _____ TRIANG. _____

Lat. _____° _____' _____"	CONDITION	ESTABLISHED BY
Long. _____° _____' _____"	Disturbed <input type="checkbox"/>	USGS <input checked="" type="checkbox"/> USBR <input type="checkbox"/>
Elev. <u>3194.916</u> feet	Destroyed <input type="checkbox"/>	USC&GS <input type="checkbox"/> State GS <input type="checkbox"/>
	Not Found <input type="checkbox"/>	USNPS <input type="checkbox"/> USNFS <input type="checkbox"/>
		USGLO <input type="checkbox"/> (Other) <input type="checkbox"/>
		USBLM <input type="checkbox"/>

REMARKS OR REVISED DESCRIPTION:

From the post office at Solomon, go 5.1 mi. east along hwys 70 and 666 to the forks where 70 and 666 divide and the end of truck travel. Continue on foot, in an southeasterly direction for approximately 0.8 mi. to the north bank of San Jose Wash. 0.25 mi. west of large drain fork, at a cut in the bank where old road crossed the wash. 112 ft. west of wash, 16 ft. north of trail, a 3 in pipe projecting 0.8 ft. with brass cap riveted to top. Stamped USGS 3195 PHIX

SUBMITTED BY D. R. Gruben
 TITLE Carto. Rec. DATE April 1983
 AGENCY USGS NND

Marks found in good condition need not be reported.

FILL IN ALL AVAILABLE INFORMATION

Please prepare in triplicate.

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
 MULTIPLE STATION LISTING

PROCESS DATE 0

STATION NUMBER	LAT- I- TUDE		LONG- I- TUDE		SEC. NU.	LOCAL IDENT- I- FIER	AGENCY CODE	STATE	DIS- TRICT	COUNTY	SITE
	32	51	109	20							
09442000	112	57 57	109	18 35	00	GILA RIVER NEAR CLIFTON	USGS	04	04	011	S.
09462200	114	50 06	109	59 37	00	AGRICUL RESCH SER SAFOR	USGS	04	04	009	S.
09451900	113	50 27	109	31 17	00	AGRICUL RESCH SER SAFOR	USGS	04	04	009	S.
09447900	113	57 20	109	31 50	00	UNITA CREEK NEAR MURENC	USGS	04	04	009	S.
09460200	114	50 00	109	45 39	00	FKEY CREEK AT THATCHER,	USGS	04	04	009	S.
09448500	113	52 06	109	30 38	00	GILA R AT HEAD OF SAFFOR	USGS	04	04	009	S.
09451000	113	52 00	109	31 00	00	GILA R WR SOLUMON ARTZ	USGS	04	04	009	S.
09458500	113	50 50	109	42 55	00	GILA RIVER AT SAFFOR, A	USGS	04	04	009	S.
325858109215R01	112	58 58	109	21 58	01	SAN FRANCISCO R ADV GILA	USGS	04	04	011	S.
09457000	111	48 06	109	34 19	00	SAN SIMON RIVER NEAR SOL	USGS	04	04	009	S.
09451800	112	51 00	109	20 15	00	TULLGATE WASH TRID NEAR	USGS	04	04	009	S.

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28 JUN 1972

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
 MULTIPLE STATION LISTING

PROCESS DATE 06/10

STATION NUMBER	GFU- LOGIC UNIT	UPDAT- AGE AREA (SQ. MI.)	OF LAND SURFACE DATUM (FT. ABOVE NBVD)	DEPTH OF WELL, TOTAL (FEET)
09442000	--	4010	3356.35	--
09462200	--	1.07	--	--
09451900	--	.01	--	--
09447300	--	302	--	--
09460200	--	24.5	--	--
09448500	--	7900	3024.84	--
09451000	--	7950	--	--
09458500	--	10500	6800.07	--
325858109215401	--	--	--	--
09457000	--	2190	6060.15	--
09451800	--	.12	--	--

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28 JUN 1982

G-15931

FIELD GEOGRAPHIC POSITIONS

MAR 29 1978

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

LOCALITY SAFFORD - CLIFTON TRAVERSE NORTH AMERICAN 1927 DATUM CLASS 1 STATE ARIZONA (113)

STATION	LATITUDE AND LONGITUDE		AZIMUTH		BACK AZIMUTH		TO STATION	DISTANCE METERS			
	d.	m.	°	'	°	'					
OMON.	32	49	57.6953	239	51	58.30	59	55	35.78	GUTHRIE, SOL.	12,046.635 8,936.735
YUMA ADOT.	112	109	25 30.2948	73	57	00.41	253	54	01.47	TOLLGATE ADOT. OMON.	6,213.620 3,125.099
SOL.	113	32	48 37.3668	251	15	46.31	71	17	41.34	YUMA ADOT. ASH PEAK,	5,829.345 24,795.888
JUDIA ADOT.	113	109	31 00.4244	285	09	25.87	105	17	43.65	SOL, LORENZO,	3,789.208 5,201.032
LORENZO,	112	32	47 29.1198	236	17	29.88	56	18	35.52	SOL.	4,371.036
WRIGHT ADOT.	112	109	29 56.0785	291	49	51.98	111	51	32.42	LORENZO,	4,155.230 5,364.864
SETH,	88	32	45 53.2831	104	10	41.48	284	09	17.70	LORENZO, SETH,	13,225.399 9,503.948
SLICK ADOT.	112	109	27 21.2838	290	54	30.71	110	56	14.87	ASH PEAK, LORENZO.	4,182.380 3,245.926
ROCK ADOT.	112	32	44 51.0888	267	58	35.98	88	03	10.64	SETH, ROCK ADOT,	5,462.945 3,333.629
MICRO ADOT.	112	109	24 08.7780	108	00	01.74	287	56	53.80	RHY ADOT. MICRO ADOT.	2,229.723 4,900.044
RHY ADOT	112	32	45 11.2474	81	28	24.84	261	26	58.89	RHY ADOT. ASH PEAK,	56.430 6,113.053
		109	21 29.9010	261	07	09.82	81	08	16.48	CO. LINE MK GGBS?	

NAD 83 VALUES AVAILABLE

No check on this position. Abbreviations used: d.=described; m.=marked; n.=not; r.=recovered; l.=lost; p.=probably. U.S. GOVERNMENT PRINTING OFFICE: 1979-762-269

SEE SILVER CITY

32 109 4

32°45'
109°30'

ARIZONA 113

NAD 83 VALUES AVAILABLE

<u>NAME</u>	<u>STATION</u>
Bench Mark W 40	1008
Bonit	1010
Saffair	1022
Bol	1023
Thatcher Ussets	1026
Wick	1028
Safford KGM Radio Tower	1032
Safford Water Tank	1033
Bolomonsville Schoolhouse	
Chimney	1034
Webber Peak Target	1037

HORIZONTAL CONTROL DATA

QUAD 321094 STATION 1007
ARIZ
LATITUDE 32°30' TO 33°00'
LONGITUDE 109°30' TO 110°00'
DIAGRAM NI 12-12 SILVER CITY

114

by the
Coast and Geodetic Survey
NORTH AMERICAN 1927 DATUM

B.M. T 153 (Graham County, Ariz., R.A.M., 1945)--Station is located by approximate air line distances: 11 miles NW of Safford and 6-1/2 miles NNE of Pima, on a mesa along the E side of Big Spring Wash.

To reach the station from the high school in Pima, go N for 0.3 mile on U.S. Highway 70 to where it turns W and a mesadown road continues N. Continue N, crossing the Gila River bridge, 2.15 miles to the public school in Bryce. Continue N 0.05 mile to a cattle guard on the right. Turn right on a dirt road across the cattle guard, take the middle one of three forks and follow the main traveled road E 0.3 mile to another fork. Keep the left fork for 0.05 mile to a bridge across irrigation ditch. Cross bridge, then a dike, take left fork, main road, and follow the road up Big Spring Wash fork and out onto a mesa on the E side, 3.6 miles to a wire enclosure on the right. Continue N along road 0.7 mile to the station, 64 feet NW of the road. Continue N along road 0.6 mile to the azimuth mark, 37 feet WNW of road.

Station mark is a bronze bench-mark disk set in a square concrete post which projects about 6 inches above the ground and is stamped "T 153 1945". It is located 64 feet NW of the center of the road past the station and 10.4 feet ENE of a 4- by 4-inch white witness post.

Reference mark 1 is a bronze reference disk set in a square concrete post which projects about 2 inches above the ground and is stamped "B.M. T 153 NO 1 1945". It is ENE of the station on about the same level and 10 feet WNW of the center of the road past the station.

Reference mark 2 is a bronze reference disk set in a square concrete post which projects about 1 inch above the ground and is stamped "B.M. T 153 NO 2 1945". It is NW of the station on about the same level.

Azimuth mark is a standard General Land Office Survey brass capped 3/4-inch iron pipe surrounded by a rock cairn and projecting about 2 feet above the ground and is stamped "1/4 S21 S22 1921".

It is NNE of the station, 37 feet WNW of the center of the road, and 6.4 feet NE of a 4- by 4-inch white witness post.

OBJECT	feet	DIRECTION
PIMA	13.754	0°00'00"0
R.M. 2	13.754	119°51'26"
Azimuth Mark	22.253	166°47'21.2"
R.M. 1	22.253	206°02'44"

Height of instrument above station mark - 1.6 meters.

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: BENCH MARK T 153 YEAR: 1945
STATE: Ariz LOCALITY: Globe to Clifton, Southeastern Arizona
Second-order Triangulation SOURCE: G-7961 FIELD SKETCH: ARIZ 20

GRID DATA	COORDINATES (PM)	PLANE AZIMUTH SOUNDING ANGLE	MARK
STATE: ARIZ ZONE: E CODE: 0201	E 618,319.94 N 718,890.60	203°40'37" + 0 12 36	AZIMUTH MARK (1/4 S21 S22 GLO)
STATE: ZONE: CODE:			

POSITION	SECONDS IN METERS	ELEVATION
LATITUDE: 32°58'32"601 LONGITUDE: 109°46'51.021	NORTH WEST	1,076.29 3,531.1

TO STATION	GEODETIC AZIMUTH (From mark)	DISTANCE
AZIMUTH MARK (1/4 S21 S22 GLO)	THIRD-ORDER 203°53'13"0	

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HORIZONTAL CONTROL DATA

by the
 Coast and Geodetic Survey
 NORTH AMERICAN 1927 DATUM

QUAD 321094 STATION 1010
 ARIZ
 LATITUDE 32°30' TO 33°00'
 LONGITUDE 109°30' TO 110°00'
 DIAGRAM NI 12.12 SILVER CITY

113

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: BONTI
 STATE: Ariz
 SECOND ORDER TRIANGULATION
 SOURCE: G-7961
 FIELD STATION: ARIZ 20
 YEAR: 1945

COND DATA	COORDINATES (FEET)	PLATE AZIMUTH Elevation	MARK	POSITION		ELEVATION	
				NORTH METERS	EAST METERS	HEIGHT METERS	REDUCED METERS
STATE: Ariz	696,446.60	111°41'28"	AZIMUTH MARK	1,195.8			
ZONE: E	702,433.58	+ 0 20 53					
CODE: 0201							
STATE:							
ZONE:							
CODE:							

GEODETIC DATA	POSITION		GEODETIC AZIMUTH (From station)	LOCALITY	DISTANCE METERS
	LATITUDE	LONGITUDE			
TO STATION	32°55'45.995"	109°31'35.1092"	112°02'20.76"		
			THIRD-ORDER		

AZIMUTH MARK

Station mark is a bronze station disk set in bedrock about 8 inches below the surface and is stamped "BONTI 1945." It is 49 feet NNE of the center of the road and 11.2 feet ENE of a white witness post.

Reference mark 1 is a bronze reference disk set in a boulder projecting about 2 inches and is stamped "BONTI NO 1 1945." It is 58 of the station, 6 inches higher, and 21 feet NE of the center of the road.

Reference mark 2 is a bronze reference disk set in a boulder projecting about 6 inches and is stamped "BONTI NO 2 1945." It is N of the station and about 1 foot lower.

Azimuth mark is a bronze azimuth disk set in a boulder projecting about 10 inches and is stamped "BONTI 1945." It is about 0.3 mile WNW of the station, 63 feet NNE of the center of the road, and 2.9 feet ESE of a white witness post. It is reached by continuing on the road past the station for 0.3 mile to the mark on the right side of the road.

OBJECT: OILBOX (U.S.S.E.S.)

OBJECT	DISTANCE	DIRECTION
OILBOX (U.S.S.E.S.)	10 miles	0°00'00"
TARGET	6.505	27.910
R.X. 1	0.3	141 04 17
Azimuth Mark WNW	14,781	205 31 15.0
R.X. 2	14,781	267 14 35

Height of instrument above station mark - 1.85 meters.

OK
 4/83 DRG.

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HORIZONTAL CONTROL DATA

by the
 Coast and Geodetic Survey
 NORTH AMERICAN 1927 DATUM

ARIZONA 1/3

QUAD 321094 STATION 1021
 ARIZ
 LATITUDE 32°30' TO 33°00'
 LONGITUDE 109°30' TO 110°00'
 DIAGRAM NI 12-12 SILVER CITY

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: PIMA YEAR: 1945
 LOCALITY: Globe to Clifton, Southeastern Arizona

STATE: Ariz FIELD NUMBER: ARIZ 20
 FIRST-ORDER TRIANGULATION SOURCE: G-7961

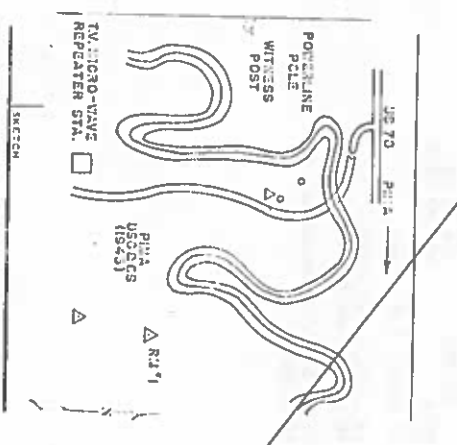
STATION	PLANE AZIMUTH	MARK
STATE: Ariz	218°27'24"	AZIMUTH MARK
ZONE: E	+ 0 10 00	
COORD: 0201		
STATE:		
ZONE:		
COORD:		

POSITION	SECONDS IN	ELEVATION
LATITUDE: 32°53'16".113	NORTH	921.2
LONGITUDE: 109°51'35".283	WEST	3.022
	METERS	METERS
		FEET

about 1 mile (air line) SW of Pima along a gravel road, on top of and near the N end of a ridge which is bounded on the SE by Co-Comwood Creek and on the NW by Bear Springs Flat.
 To reach station from the fire department in Pima, go W on U.S. Highway 70 for 0.9 mile to where the highway turns to the right and a gravel road continues straight ahead, continue straight ahead on the gravel road for 0.7 mile to a T-road, turn left and continue for 0.85 mile to right fork just before coming to a cattle guard. It is at this cattle guard that the azimuth mark has been set. To continue to the station, take this right fork and continue for 0.3 mile to a cattle guard, continue on the main traveled road as it bears left for 0.7 mile to the top of the ridge and the station.
 Station is 27 feet MNW of the center of the road and 11.3 feet W of a white witness post. It is marked by a bronze station disk set in a 12 inch square concrete post projecting about 3 inches above the station base. Disk is stamped PIMA 1945. Underground mark is a bronze station disk set in concrete.
 Reference mark 1 is a bronze reference disk set in a 12 inch square concrete post projecting about 3 inches and is stamped PIMA NO 1 1945. It is 29 feet MNW of the center of the road, 18 MNW of the station and about level with it.
 Reference mark 2 is a bronze reference disk set in a 12 inch square concrete post projecting about 3 inches and is stamped PIMA NO 2 1945. It is MNW of the station and about 1-1/2 feet lower.
 Azimuth mark is a bronze azimuth disk set in a cattle guard and is stamped PIMA 1945. The disk is set near the S end of the E concrete base and is 5 feet S of a white witness post set in the fence line. The mark is about 1 mile NE of the station and is reached as shown in the description.

OBJECT	DISTANCE	DIRECTION
SEEP	13.521 meters	0°00'00"00
R.N. 1	43.800 meters	23°23'15"
Azimuth Mark NE	1 mile	31°40'57".8
Flag pole (Pima school)		73°25'24"
Water tower (Safford)		107°56'26"
R.N. 2	11.785 meters	279°17'37"
Height of instrument above station mark -	3.92 meters	

9.3. PIMA (Graham Co., R.A.M., 1945; Army Map Service, 1968)---Mark is 1 mile to an intersection turn left (SW) onto a blacktop road and proceed 0.8 mile to a "T" intersection. Turn left (ESE) and go 0.3 mile to a road right just before a cattle guard, turn right (SE) for 1 mile staying on main traveled road as it bears to the top of the ridge and station site. Station is located 3.5 meters (SW) of a witness post; 7.5 M (E) of E of road; 46.2 M (SSE) of a powerline pole; approximately 0.25 mile (NNE) of a television microwave repeater station.
 Reference Mark #1 recovered.
 Reference Mark #2 destroyed. It has been dug up and is lying next to the station.
 Azimuth Mark was searched for but not recovered.
 Condition of all existing marks is excellent. View is good in all directions except in the area of 140°-190° (Mag Az) (mountain is approximately 5 miles away).



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HORIZONTAL CONTROL DATA

QUAD 321094 STATION 1022
ARIZ
LATITUDE 32°30' TO 33°00'
LONGITUDE 109°30' TO 110°00'
DIAGRAM NI 12-12 SILVER CITY

by the
Coast and Geodetic Survey
NORTH AMERICAN 1927 DATUM

SAFFAIR (Graham County, Ariz., R.A.M., 1945)--Station is 1/2-1/2 miles (air line) NE of Safford and 3 miles N of Solomonville by air line at the Safford Airport underneath the beacon. To reach from the County Courthouse in Safford, go N on U.S. Highway 70 for 0.1 mile to a fork. Here take the graded road straight ahead for 0.8 mile to the E end of the bridge. From the N end of the bridge go 0.8 mile to a fork. Here take the right fork across a cattle guard and up a canyon onto the mesa for 2.6 miles to a fork. Here take the right fork for 2.3 miles to a cattle guard. Continue 0.1 mile to a fork. Here take the right fork and go 1.5 miles to a fork. Here turn left through the entrance gate to the airport and go 0.3 mile to the end of truck travel at the beacon and the station. From here the azimuth mark is 0.7 mile along a landing strip at the NW corner of the field. Station mark is a bronze station disk set in a square concrete post which is flush with the ground and is stamped "SAFFAIR 1945." Underground mark is a bronze station disk set in concrete. The station is 2.014 meters SW of the NE leg of the beacon tower, 2.085 meters NW of the SE leg, 2.383 meters NE of the SW leg, and 2.350 meters SE of the NW leg. NOTE: These measurements were made from the station to the inner top edge of the anchor sections. The station is 19 meters E of the center of the road to the airport. Reference mark 1 is a bronze reference disk set in a square concrete post projecting about 2 inches above the ground and is at about the same level as the station. The mark is 2.29 meters N of the NE corner of a small storage shed, 4.68 meters ENE of the NW corner of the same shed, and is SE of the station. Stamped "SAFFAIR NO 1 1945."

Reference mark 2 is a bronze reference disk set in a round concrete post which is flush with the ground and is at about the same level as the station. Mark is SW of the station. Stamped "SAFFAIR NO 2 1945."

Azimuth mark is a bronze azimuth disk set in the SE corner of the concrete base of an airport border light at the NW corner of the airport and is stamped "SAFFAIR 1945." The mark is 222-1/2 feet N of the NW corner of the asphalt landing strip and is NW of the station.

OBJECT
SOL. Meters Feet
R.M. 1 SE 20.047 65.771
R.M. 2 SW 15.148 49.698
Azimuth Mark NW 0.7 mile
Height of light above station mark - 1.0 meter.
Height of instrument above station mark - 1.6 meters.

SAFFAIR (Graham County, Ariz., R.A.M., 1945; W.T.J., 1955)
as described in good condition.
A standard C.A.A. beacon mounted on a 60-ft. four-legged tower is centered almost over the station mark.

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: SAFFAIR
STATE: ARIZ
LOCALITY: Globe to Clifton, Southeastern Arizona
Second-order Triangulation SOURCE: G-7961 FIELD MATCH: ARIZ 20
YEAR: 1945

GRID DATA	COORDINATES (Feet)	PLANE AZIMUTH ANGLE (FOR 400 M)	MARK
STATE: ARIZ ZONE: E CODE: 0601	662,492.85 673,645.71	160°01'23" + 0 17 13	AZIMUTH MARK
STATE: ZONE: CODE:	X Y		

GEODETIC DATA	POSITION	SECONDS IN METERS	ELEVATION
	LATITUDE: 32°51'03"004 LONGITUDE: 109°38'15"149	NORTH WEST	962.61 3,158.2

TO STATION	GEODETIC AZIMUTH (FROM INSTR)	DISTANCE	METERS
AZIMUTH MARK	THIRD-ORDER 160°18'36"2		

OK 3/83
D.R.G.
1969
CoGS 2nd Order Bm Elev. 3158.173 ft
C 105 Bm

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HORIZONTAL CONTROL DATA

by the
 Coast and Geodetic Survey
 NORTH AMERICAN 1927 DATUM

QUAD 121094 STATION 1023
 ARIZ 32°30' 70 33°00'
 LATITUDE 32°30' 70 TO 110°00'
 LONGITUDE 109°30' TO 110°00'
 DIAGRAM N1 12-12 SILVER CITY

113

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: SOL
 YEAR: 1945
 LOCALITY: Globe to Clifton, Southeastern Arizona
 STATE: Ariz
 FIRST-ORDER TRIANGULATION SOURCE: G-7961
 RESECTION: ARIZ 20

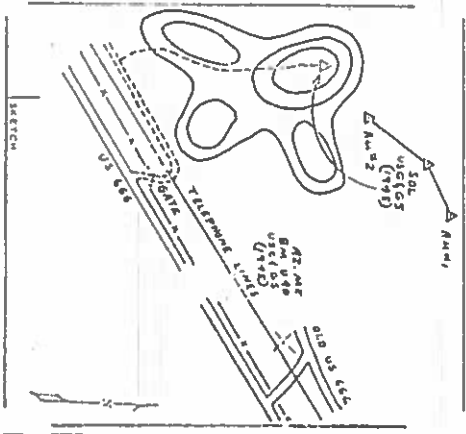
GRID DATA	COORDINATES (7200)	PLATE ALTIMETER STATION MARKS	MARK
STATE: Ariz ZONE: E CODE: 0201	699,668.41 659,134.93	247°00'33" + 0 21 08	AZIMUTH MARK (BENCH MARK U 40)
STATE: X ZONE: Y			

GEODETTIC DATA	POSITION		ELEVATION FEET
	LATITUDE	LONGITUDE	
	32°48'37".268	109°31'00".420	1,065.7
			3,490

OK 4/85
 DRG.

SOL (Graham County, Ariz., R.A.M., 1945; V.T.J., 1955)
 Station and all marks recovered as described in good condition.

SOL (Graham Co., R.A.M., 1945; ArmyMap Serv., 1957)---Station is located about 11.4 air-miles (E) of Safford and 4.2 air-miles (E) of San Jose, Arizona.
 To reach from Safford go (E) on US 70 to Jct of US 70 & 666 (N) on US 666 for 2.4 miles to a Gate on the left side of road, go through Gate to telephone poles turn left and follow telephone poles for 0.3 mile, make a right and go up hill to highest point and station. The station is 6.1 ft from a witness post and stamped "SOL 1945".
 Reference Mark stamped "SOL NO 1 1945" is (SE) on a flag Az of 166° at a distance of 35.925 ft and a DE of -0.55 feet.
 Reference Mark #2 stamped "SOL NO 2 1945" is (SW) on a flag Az of 218° at a distance of 59.480 ft and a DE of -9.35 feet.
 Azimuth Mark is a USGMS bronze BM disk set in a concrete post and is stamped "U 40 1934". Bench Mark is 5.5 miles (N) on US 666 from Jct. of US 70 and US 666 and 0.4 mile on old highway from turn off of US 666. The Bench Mark is under telephone lines and 92.848 ft from E of old highway. Condition of all mark is excellent. View is good in all directions.



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HORIZONTAL CONTROL DATA

by the
 Coast and Geodetic Survey
 NORTH AMERICAN 1927 DATUM

QUAD 321094 STATION 1025
 ARIZ
 LATITUDE 32°30' TO 33°00'
 LONGITUDE 109°30' TO 110°00'
 DIAGRAM NI 12-12 SILVER CITY

TAN (Graham County, Ariz., R.A.M. 1945)--station is located by approximate air line distances: 16-1/2 miles SSE of Safford, 6-1/2 miles E of U.S. Highway 666, and 1/4 mile WSW of Tanque on the Southern Pacific Co. railroad. It is on top of a low knoll 87 feet N of the Tanque road.

To reach the station from the junction of U.S. Highways 70 and 666 near the E end of Safford, go S on U.S. Highway 666 for 7.1 miles to where a macadam road forks off to the right (Swift Trail fork). Continue S on U.S. Highway 666 for 9.0 miles to a graded road left (E) at a sign "TANQUE 10 Mi.". Turn left on the graded road and go E for 3.7 miles to a road right, a cattle guard, and station U.S.G.S. B.M. 23 BS in a fence line on the right. Continue straight ahead (E) towards Tanque for 2.0 miles on the main traveled road to a fork. Keep the right fork for 2.3 miles, thence right fork again for 1.6 miles to the station on the left. 87 feet N of the road. To reach the azimuth mark continue for 0.05 mile to a fork. Take the left fork for 0.15 mile to the azimuth mark at 1/10 mile before reaching the Southern Pacific Co. railroad tracks and railroad station Tanque.

Station mark is a bronze station disk set in a square concrete post which projects about 2 inches above the ground and is stamped "TAN 1945." It is 67 feet N of the road on the highest point of a small knoll. Underground mark is a bronze station disk set in concrete.

Reference mark 1 is a bronze reference disk set in a square concrete post which projects about 3 inches above the ground and is stamped "TAN NO 1 1945." It is WNE of the station and about 3 feet lower.

Reference mark 2 is a bronze reference disk set in a square concrete post which projects about 4 inches above the ground and is stamped "TAN NO 2 1945." It is SE of the station, about 10 feet lower, 21 feet N of the road, and 7.0 feet S of a 4- by 4- inch white witness post.

Azimuth mark is a bronze disk of the U.S. Geological Survey set in a square concrete post which projects about 2 feet above the ground and is stamped "3259 360 10." It is ENE of the station, 18 feet SSE of the center of the dirt road, and 5.6 feet NW of a 4- by 4- inch white witness post.

OBJECT	DISTANCE	DIRECTION
DRY WLN (U.S.F.S.)	meters	0°00'00"0
Brick chimney on Tanque	1/4 mile	21 35 24
R.R. station	0.2 mile	23 15 25.8
Azimuth Mark	80.238	94 13 24
R.M. 2	24.458	307 04 12
Witness 1	9.687	331 57 04
R.M. 1	31.782	

Height of instrument above station mark - 1.7 meters.

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: TAN

YEAR: 1945

STATE: ARIZ LOCALITY: Safford to Wilcox, Southeastern Arizona

Second-order Triangulation SOURCE: G-7961 FIELD SKETCH: ARIZ 21

GRID DATA	COORDINATES (7-44)	PLANE AZIMUTH ± 0 20 13	MARK
STATE: Ariz	X 692,506.41	238°07'146"	AZIMUTH MARK (BENCH MARK USGS)
ZONE: E	Y 584,672.31		
CODE: 0201			
STATE:	X		
ZONE:	Y		
CODE:			

POSITION	RECORD IN METERS	ELEVATION METERS
LATITUDE: 32°36'20"80	NORTH	1,003.1
LONGITUDE: 109°32'29"479	WEST	3,291

TO STATION	GEODETIC AZIMUTH (from bench)	LOCALITY (Meters)	DISTANCE METERS
AZIMUTH MARK (BENCH MARK USGS)	238°27'58"9		

ARIZONA

JULY 1966
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WASHINGTON D.C.

HORIZONTAL CONTROL DATA

QUAD 321094 STATION 1026
ARIZ
LATITUDE 32°30' TO 33°00'
LONGITUDE 109°30' TO 110°00'
DIAGRAM NI 12-12 SILVER CITY

by the
Coast and Geodetic Survey
NORTH AMERICAN 1927 DATUM

THATCHER (U.S.S.E.S.) (Graham County, Ariz., R.A.M., 1945)--
Station is located about 5-1/2 miles (air line) ESE of Pima, 7-1/2
miles NW of Safford, and 2-1/2 miles NW of Thatcher. It is on
top of a bluff NE of the Gila River and about 0.1 mile SW of
Graham Cemetery.

To reach the station from the Graham County Court House in
Safford, go N on U.S. Highway 70 for 0.1 mile. Continue straight
ahead on gravel road where U.S. Highway 70 turns W. Go for 3.4
miles on the main road to a cattle guard (the azimuth mark is set
in the concrete headwall of the culvert on the left side). Con-
tinue 0.1 mile to road turning off to right. Turn right and fol-
low road up the bluff for 0.2 mile to top and Graham Cemetery.
Turn sharp left and go SW along the SE side of the edge of the
bluff for 0.1 mile to station.

Station is about 60 feet NW of the road leading up to the
cemetery, 11 feet NW of the point where the hill drops off toward
the road, and 10-1/2 feet SE of a 4 inch square white witness
post. It is marked by a standard U.S. Soil Erosion Service sta-
tion disk set in a square concrete post which projects 4 inches
above the ground and is stamped "THATCHER 1945."

Reference mark 1 is W of the station and at about the same
level. It is a bronze reference disk set in a square concrete
post which projects 4 inches above the ground and is stamped
"THATCHER USSES NO 1 1945."

Reference mark 2 is N of the station and about 1/2 foot
lower. It is a bronze reference disk set in a square concrete
post which projects 2 inches above the ground and is stamped
"THATCHER USSES NO 2 1945."

Azimuth mark is 1/4 mile S of the station, about 1 foot E
of the center of the S cattle guard headwall, and about 1 foot
above the road. It is a bronze azimuth disk set in the concrete
headwall flush with its surface and is stamped "THATCHER USSES
1945."

OBJECT	DISTANCE	feet	DIRECTION
WICK	meters	19 31	0°00'00"O
Azimuth Mark 5	1/4 mile	35.5	
Lookout tower,			
Heliograph pt.			
Church steeple in			
Thatcher		35 58	31.6
R.M. 1	14.310	46.945	44 36 20
R.M. 2	20.343	66.745	101 27 38
Water tank in			187 28 17
Safford			347 52 33

Height of instrument above station mark - 1.5 meters.
THATCHER (U.S.S.E.S.) (Graham County, Ariz., R.A.M., 1945; M.T.J.)
marks recovered as described in good condition. Station and reference
not recovered. The cattle guard referred to in the 1945 descrip-
tion and all culverts along this road have been rebuilt since that
date. Azimuth mark lost.

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: THATCHER USSES YEAR: 1945

LOCALITY: Globe to Clifton, Southeastern Arizona

Second-ORDER Triangulation SOURCE: G-7961

FIELD SKETCH: ARIZ 20

GRID DATA	COORDINATES (FPM)	PLANE AZIMUTH CORRECTION	MARK
STATE: ARIZ ZONE: E CODE: 0201	631,765.86 683,064.32	5°48'00" + 0 13 52	AZIMUTH MARK
STATE: ZONE: CODE:			

POSITION	SECONDS IN METERS	ELEVATION
LATITUDE: 32°52'37".582 LONGITUDE: 109°44'14.893	NORTH WEST	919.4 3,010

TO STATION	GEODETIC AZIMUTH (From center)	LOCALITY (Meters)	DISTANCE METERS
AZIMUTH MARK	THIRD-ORDER 6°01'58".4		

OK 3/83
O.R.G.

V.A. Elev: 3016. ft (USGS 1960)

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HORIZONTAL CONTROL DATA

by the
 Coast and Geodetic Survey
 NORTH AMERICAN 1927 DATUM

ARIZONA
 QUAD 321094 STATION 1027
 ARIZ
 LATITUDE 32°30' TO 33°00'
 LONGITUDE 109°30' TO 110°00'
 DIARRAM NI 12-12 SILVER CITY

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: VAN GAUSIG USBS
 YEAR 1945

STATE: ARIZ LOCALITY: Safford to Willcox, Southeastern Arizona
 First-order Triangulation SOURCE: G-7961 FIELD SKETCH: ARIZ 21

GRID DATA	COORDINATES (7241)	PLANE AZIMUTH & ON-ADJ. ANGLE	MARK	ELEVATION	
				METERS	FEET
STATE: Ariz	X 614,804.28	212°37'54"	AZIMUTH MARK (BENCH MARK ARIZ HWY DEPT)	1,557.4	
ZONE: E	Y 557,537.72	+ 0 15 06		5,110	
CODE: 0201					
STATE: ARIZ	X				
ZONE: E	Y				
CODE: 0201					

GEODETTIC DATA	POSITION		SECOND-ORDER METERS	ELEVATION METERS
	LATITUDE	LONGITUDE		
	32°31'54"925	109°41'55"537		

TO STATION	AZIMUTH MARK (BENCH MARK ARIZ HWY DEPT)	GEODETTIC AZIMUTH (From mark)		DISTANCE METERS
		THIRD-ORDER	DEPT	
		212°52'59"8		

VAN GAUSIG (U.S.F.S.) (Graham County Ariz., R.A.M. 1945)--Station is located about 20-1/2 miles (air line) S of Safford, 12 miles (air line) SW of Tanque, 1-1/2 miles W of U.S. Highway 666, and about 1/2 mile NW of the Van Gausig ranch. It is on the first high conical peak W of U.S. Highway 666 and on the E boundary of the Crook National Forest (Mt. Graham District).
 To reach station from the junction of U.S. Highways 70 and 666 at Safford, go S on highway 666 for 7.0 miles to the Swift Trail junction, continue on the highway for 9.8 miles to where a gravel road turns right to Fort Grant, continue on the highway for 2.2 miles to a small concrete culvert in which the station mark is set, continue ahead for 0.8 mile to the end of the pavement of highway 666, continue ahead on unpaved highway 666 for 0.5 mile, turn right across country toward the station and continue for 1.3 miles to the wash at the base of the peak and the end of truck travel. Pack to the left of the draw to the ridge and then right to the peak and the station.
 Station mark is a U.S. Department of Agriculture Forest Service disk set in a 3-inch depression in bedrock on the highest point of the peak. It is stamped VAN GAUSIG 1945.
 Reference mark 1 is a bronze reference disk set in outcropping bedrock and is stamped VAN GAUSIG NO 1 USBS 1945. It is NE of the station and about 5 feet lower.
 Reference mark 2 is a bronze reference disk set in outcropping bedrock and is stamped VAN GAUSIG NO 2 USBS 1945. It is ESE of the station and about 10 feet lower.
 Azimuth mark is an Arizona Highway Department disk set in the center of the W concrete abutment of a concrete culvert on U.S. Highway 666. It is stamped ELEV 4129-23 STA 49030 1941. It is about 1 mile NE of the station and is reached as shown above.
 A U.S.F.S. R.M. 1, a 1/2 inch steel rod cemented in outcropping bedrock, is 6.175 meters (20.260 feet) NE of the station and about 4 feet lower.
 A U.S.F.S. R.M. 2, a 1/2 inch steel rod cemented in outcropping bedrock, is 7.818 meters (25.650 feet) SSE of the station and about 5 feet lower.
 OBJECT: DRY MTN (U.S.F.S.)
 R.M. 2 ESE meters 13,389 feet 60 10 40
 Hells Pk. Lookout NW Tower 15 miles 19 02.3
 Azimuth Mark NE 1 mile 342 10 52.9
 R.M. 1 NE 6.075 19.935 758 30 24
 Height of instrument above station mark - 1.64 meters.

RECOVERY NOTE: TRIANGULATION STATION

NAME OF STATION: VAN GAUSIG (USFS)
 ESTABLISHED BY: R.A.M. YEAR 1936
 RECOVERED BY: USGS YEAR 1965
 AIRLINE DISTANCE AND DIRECTION FROM NEAREST TOWN: COUNTY: Graham

STATE: ARIZ. BENCH MARK(S) ALSO:
 DETAILED STATEMENT AS TO THE DETAILS OF THE ORIGINAL DESCRIPTION, INCLUDING MARKS FOUND, MEASUREMENTS, CHANGES MADE, AND OTHER PERTINENT FACTS:
 Station was recovered.

Revised Description: From Safford (junction of U.S. Highways 70 and 666) go South on U.S. Highway 666 for 20.7 miles, turn right through gate and proceed 0.9 mile along dirt road via corral to fence. Pass through gate and turn left off of road into a wash. Proceed West in the wash 0.15 mile to drain fork. Take right fork 0.3 mile to end of truck travel. Pack Northwest up ridge to high point and station which is just East of the National Forest boundary. About a twenty minute pack.

R

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 OCT 1970

HORIZONTAL CONTROL DATA

QUAD 321094 STATION 1028
 ARIZ
 LATITUDE 32°30' TO 33°00'
 LONGITUDE 109°30' TO 110°00'
 DIAGRAM NI 12-12 SILVER CITY

by the
 Coast and Geodetic Survey
 NORTH AMERICAN 1927 DATUM

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: WICK
 YEAR: 1945
 LOCALITY: Globe to Clifton, Southeastern Arizona
 FIELD SKETCH: ARIZ 20

DK 2183
 D.R.B.

WICK (Graham County, Ariz., R.A.M., 1945)---Station is located about 3 miles (air line) S of Safford, about 50 yards W of U.S. Highway 666, and on the top of the most N hill of the ridge W of the highway in the vicinity of the Wickersham Airport. The ridge breaks sharply toward the highway directly opposite a bladed road leading S to a club at the S edge of the airport.
 To reach station from the junction of U.S. Highways 70 and 666 at the E edge of Safford, go S on highway 666 for 3.2 miles to the end of truck travel, from here across the fence and hike W to the highest point of the small hill on the N end of the ridge and the station.

Station mark is a bronze station disk set in a 12 inch square concrete post projecting about 3 inches and is stamped WICK 1945. It is about 50 yards W of the highway and 11 feet N of a witness post. Underground mark is a bronze station disk set in concrete.
 Reference mark 1 is a bronze reference disk set in a 2 inch square concrete post projecting about 6 inches above the ground and is stamped WICK NO 1 1945. It is NNE of the station and about 1 foot lower.
 Reference mark 2 is a bronze reference disk set in a 12 inch square concrete post projecting about 3 inches above the ground and is stamped WICK NO 2 1945. It is MNW of the station and about 1-1/2 feet lower.

Azimuth mark is an Arizona Highway Department station disk set in the W concrete abutment of a culvert passing under U.S. Highway 666 and is stamped SPA 1467-095 1935 ELEV. 3048.54. It is 0.3 mile NE of the station, 5 feet N of a witness post, and is passed on the way to the station from Safford.

OBSERV	DIRECTION	FEET	METERS
FRZE (U.S.S.S.)	0°00'00"0	62 15 40	13.916
R.M. 2	39 22 45	45.665	
Church steeple (Thatcher)			
Water tower (Safford)			
R.M. 1	62 15 40	97 54 54	
Azimuth Mark NE	128 49 17	33.370	
Height of instrument above station mark	134 58 31.8	0.3 mile	

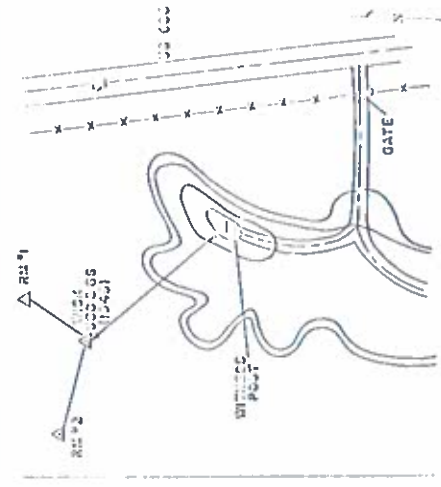
WICK (Graham Co., R.A.M., 1945; Army Map Serv., 1968)---Station is located approximately 3 air miles (S) of Safford, Arizona; 5.3 air miles (SE) of Thatcher.
 To reach from junction of US Hwy 70 and #666 in Safford go (S) on US 666 for 3.3 miles to wire gate on the right (W) side of highway. Pass through the gate and go 0.05 miles to top of mesa and Y intersection. Take right fork (N) for 0.05 miles to highest point of mesa and station which is 19.2 ft (RME) of a witness post and is marked by a USC&GS bronze disk stamped "WICK 1945."
 Reference Mark #1 is a USC&GS disk stamped "WICK #1 1945".
 Reference Mark #2 is a USC&GS disk stamped "WICK #2 1945".
 Azimuth mark searched for but not recovered.
 Condition of all existing marks is excellent. View from station is good in all directions.

GRID DATA	COORDINATES (Foot)	PLANE AZIMUTH & COR. ANGLE	MARK
STATE: ARIZ	X 639,835.73	218°24'01"	AZIMUTH MARK (BENCH MARK ARIZ HWY DEPT)
ZONE: E	Y 650,027.03	+ 0 14 47	
CODE: 0201			
STATE:			
ZONE:			
CODE:			

POSITION	SECONDS IN METERS	ELEVATION
LATITUDE: 32°17'10".337		946.6
LONGITUDE: 109 42 41.935		3,106

TO STATION	GEODETIC AZIMUTH (From south)	DISTANCE METERS
AZIMUTH MARK (BENCH MARK ARIZ HWY DEPT)	THIRD-ORDER 218°38'47.9	

V.A. & Co. 3107th - (1945-1965)



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HORIZONTAL CONTROL DATA

by the
 Coast and Geodetic Survey
 NORTH AMERICAN 1927 DATUM

QUAD 321094 STATIONS 1030, 1031
 ARIZ
 LATITUDE 32°30' NO 33°00'
 LONGITUDE 109°30' W 110°00'
 DIORAM NI 12-12 SILVER CITY

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: HELIO PEAK LOOKOUT TOWER
 LOCALITY: Glenber to Willow, Southeastern Arizona
 STATE: Ariz
 Third-order Triangulation SOURCE: G-7961
 YEAR: 1945
 FIELD SKETCH: ARIZ 22

GRID DATA	COORDINATES (F.M.)	PLANE AZIMUTH & FORM ANGLE	MARK
STATE: Ariz ZONE: E CODE: 0201	X 597,920.03 Y 600,344.07	+ 0 10 18	
STATE: ZONE: CODE:	X Y		

GEODETIC DATA	POSITION		SECOND IN METERS	ELEVATION	
	LATITUDE:	LONGITUDE:		NORTH WEST	METERS FEET
	32°39'00" N 214	109 50 54.683		3,087.1 10,128	
	TO STATION		GEODETIC AZIMUTH (From south)	LOGANTHUM (Meters)	DISTANCE METERS

Computed from stations ESTES, DURKEE, GREASE

HELIO PEAK LOOKOUT TOWER (Graham County, Ariz., R.A.M., 1945);
 V.T.J., 1955) (No previous description)--Station is a forest service
 lookout tower located on HelioGraph Peak, about 14 ml. S of Salt-
 ford. Name and location of tower checked with local office of the
 U.S. Forest Service.

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: HOT SPRINGS HOTEL BELFRY
 LOCALITY: Globe to Clifton, Southeastern Arizona
 STATE: Ariz
 Third-order Triangulation SOURCE: G-7961
 YEAR: 1945
 FIELD SKETCH: ARIZ 20

GRID DATA	COORDINATES (F.M.)	PLANE AZIMUTH & FORM ANGLE	MARK
STATE: Ariz ZONE: E CODE: 0201	X 581,994.86 Y 726,927.34	+ 0 08 44	
STATE: ZONE: CODE:	X Y		

GEODETIC DATA	POSITION		SECOND IN METERS	ELEVATION	
	LATITUDE:	LONGITUDE:		NORTH WEST	METERS FEET
	32°59'53" N 241	109 53 57.203		870.2 2,855	
	TO STATION		GEODETIC AZIMUTH (From south)	LOGANTHUM (Meters)	DISTANCE METERS

Computed from stations BLACK, GOOD, PINA

HOT SPRINGS HOTEL, BELFRY (Graham County, Ariz., R.A.M., 1945)--
 A tower at the NW corner of a 3-story hotel which is surmounted by
 an electric light. The hotel is a 3-story building, the two lower
 floors being built of brick, and with a porch for each of the two
 lower floors.

HORIZONTAL CONTROL DATA
by the
Coast and Geodetic Survey
NORTH AMERICAN 1927 DATUM

QUAD 321094 STATIONS 1032, 1033
ARIZ
LATITUDE 32° 30' TO 33° 00'
LONGITUDE 109° 30' TO 110° 00'
DIAGRAM NI 12-12 SILVER CITY

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: SAFFORD KGLU RADIO TOWER
STATE: ARIZ
LOCALITY: Globe to Clifton, Southeastern Arizona
Third-order Triangulation SOURCE: G-7961
YEAR: 1945
FIELD SKETCH: ARIZ 20

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: SAFFORD WATER TANK
STATE: ARIZ
LOCALITY: Globe to Clifton, Southeastern Arizona
Third-order Triangulation SOURCE: G-7961
YEAR: 1945
FIELD SKETCH: ARIZ 20

GRID DATA	COORDINATES (F+M)	PLANE AZIMUTH θ (ON LOG) ANGLE	MARK
STATE: ARIZ ZONE: E CODE: 0201	X 639,114.49 Y 664,349.82	+ 0 14 44	
STATE: ZONE: CODE:	X Y		
GEODETIC DATA	POSITION	SECONDS IN METERS	ELEVATION METERS
	LATITUDE: 32° 49' 32".095 LONGITUDE: 109 42 49.665	NORTH WEST	949.2 3,114
	TO STATION	GEODETIC AZIMUTH (FROM 0000)	LOGARITHM (METERS)
			DISTANCE METERS

Computed from stations FRYE USSES, THATCHER USSES, WICK

SAFFORD, KGLU, RADIO TOWER (Graham County, Ariz., R.A.M., 1945)--The radio tower is located in Safford 5 of the business section of the town at 1300 Sixth Avenue.
The radio tower, for broadcasting station KGLU, is a four-sided lattice work steel structure 150 feet high. It is about 30 feet W of a white stucco building containing the studio and transmitting rooms. The tower has red lights on top, 1/3, and 2/3 of the way down.

SAFFORD, KGLU RADIO TOWER (Graham County, Ariz., R.A.M., 1945; W.T.J., 1955) Station 108C.
Tower taken down about 1946 and moved about 2.5 mi. E of Safford.

GRID DATA	COORDINATES (F+M)	PLANE AZIMUTH θ (ON LOG) ANGLE	MARK
STATE: ARIZ ZONE: E CODE: 0201	X 640,201.18 Y 665,654.12	+ 0 14 51	
STATE: ZONE: CODE:	X Y		
GEODETIC DATA	POSITION	SECONDS IN METERS	ELEVATION METERS
	LATITUDE: 32° 49' 14".955 LONGITUDE: 109 42 36.864	NORTH WEST	932.5 3,059
	TO STATION	GEODETIC AZIMUTH (FROM 0000)	LOGARITHM (METERS)
			DISTANCE METERS

Computed from stations WICK, PINA, THATCHER USSES

SAFFORD, WATER TANK (Graham County, Ariz., R.A.M., 1945)--The municipal water tank in Safford. It is a large, cylindrical, aluminum-painted tank, surmounting a four-legged steel tower, with an overall height of about 125 feet. The top is conical, and the center of the tank was intersected. It is located about 0.2 mile S of the railroad, about 100 feet E of Central Avenue, and 40 feet N of a large canal, in an area enclosed by a high wire fence.

SAFFORD, WATER TANK (Graham County, Ariz., R.A.M., 1945; W.T.J., 1955)
Recovered as described in good condition.

HORIZONTAL CONTROL DATA

by the
 Coast and Geodetic Survey
 NORTH AMERICAN 1927 DATUM

QUAD 321094 STATIONS 1034, 1035
 ARIZ
 LATITUDE 32° 30' TO 33° 00'
 LONGITUDE 109° 30' TO 110° 00'
 DIAGRAM NI 12-12 SILVER CITY

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: SOLOMONSVILLE SCHOOLHOUSE CHIMNEY YEAR: 1945

STATE: ARIZ LOCALITY: Safford to Willcox, Southeastern Arizona

Third-order Triangulation SOURCE: G-7961 FIELD SKETCH: ARIZ 21
 (No check on this position)

GRID DATA	COORDINATES (F.M.)	PLANE AZIMUTH θ (from angle)	MARK	POSITION		ELEVATION METERS
				NORTH	WEST	
STATE: ARIZ ZONE: E CODE: 0201	X Y 664,260 660,077	+ 0 17 23		915.1	3,002	3,002
STATE: ZONE: CODE:	X Y					

GEODETTIC DATA	POSITION		SECOND IN METERS	ELEVATION METERS	DISTANCE METERS
	LATITUDE:	LONGITUDE:			
	32° 48' 48" 65	109 37 55.24			

Computed from station WICK, DRY MTN USFS

SOLOMONSVILLE, SCHOOLHOUSE, CHIMNEY (Graham County, Ariz., R.A.M., 1945; W.T., 1955) (No previous description) -- Station recovered in good condition. Description as follows:
 Located on Solomon schoolhouse, in the extreme SW corner of the village of Solomon. The streets in Solomon are not named, according to the local postmaster. The name of the village has been changed to Solomon.

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: WATCHER CHURCH STEEPLE YEAR: 1945

STATE: ARIZ LOCALITY: Globe to Cifton, Southeastern Arizona

Third-order Triangulation SOURCE: G-7961 FIELD SKETCH: ARIZ 20

GRID DATA	COORDINATES (F.M.)	PLANE AZIMUTH θ (from angle)	MARK	POSITION		ELEVATION METERS
				NORTH	WEST	
STATE: ARIZ ZONE: E CODE: 0201	X Y 625,004.17 671,756.92	+ 0 13 15		915.8	3,005	3,005
STATE: ZONE: CODE:	X Y					

GEODETTIC DATA	POSITION		SECOND IN METERS	ELEVATION METERS	DISTANCE METERS
	LATITUDE:	LONGITUDE:			
	32° 50' 45" 958	109 45 34.691			

Computed from stations PIMA, WATCHER USSES, WICK

WATCHER, CHURCH STEEPLE (Graham County, Ariz., R.A.M., 1945) -- A spire, surmounted by a finial, on a grey stone building located at the Gila Junior College in Watcher. The building is believed to be the school chapel.

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COAST AND GEODETIC SURVEY
WASHINGTON D.C.

ARIZONA

HORIZONTAL CONTROL DATA

by the
Coast and Geodetic Survey
NORTH AMERICAN 1927 DATUM

QUAD 321094 STATIONS 1036, 1037
ARIZ
LATITUDE 32°30' TO 33°00'
LONGITUDE 109°30' TO 110°00'
DIAGRAM NT 12-12 SILVER CITY

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: WEBB PEAK LOOKOUT TOWER
STATE: ARIZ
LOCALITY: Glenbar to Willcox, Southeastern Arizona
Third-order Triangulation source: G-7961
YEAR: 1945
FIELD SKETCH: ARIZ 22

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: WEBBER PEAK TARGET
STATE: ARIZ
LOCALITY: Globe to Clifton, Southeastern Arizona
Third-order Triangulation source: G-7961
YEAR: 1945
FIELD SKETCH: ARIZ 20

GRID DATA	COORDINATES (F+M)	PLANE AZIMUTH θ (FOR Δαα ANGLE)	MARK
STATE: ARIZ ZONE: E CODE: 0201	X 575,217.90 Y 622,600.51	+ 0 07 56	
STATE: ZONE: CODE:	X Y		

GEODETIC DATA	POSITION		ELEVATION	
	LATITUDE: 32°42'41"051 LONGITUDE: 109 55 19.615	NORTH WEST	3,074.2 10,086	METERS FEET
TO STATION		GEODETIC AZIMUTH (From station)		DISTANCE
		LOGARITHM (Meters)		METERS

Computed from stations ESTES, BAKER HILL, PADDY, BEAR HESSES
(No description available)

GRID DATA	COORDINATES (F+M)	PLANE AZIMUTH θ (FOR Δαα ANGLE)	MARK
STATE: ARIZ ZONE: E CODE: 0201	X 665,308.59 Y 708,567.71	+ 0 17 35	
STATE: ZONE: CODE:	X Y		

GEODETIC DATA	POSITION		ELEVATION	
	LATITUDE: 32°56'48"415 LONGITUDE: 109 37 40.051	NORTH WEST	1,862.6 6,111	METERS FEET
TO STATION		GEODETIC AZIMUTH (From station)		DISTANCE
		LOGARITHM (Meters)		METERS

Computed from stations PIMA, BRUCE USGS, SOL

WEBBER PEAK, TARGET (Graham County, Ariz., R.A.M., 1945; W.F.J., 1955) (No previous description)--The target is located on a peak known as Webber Peak about N of Safford Airport. This name and location checked with the local office of the U.S. Forest Service. The target is a tripod about 10 ft. high and in good condition.

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