

32°45'
109 30

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BM "W 40 1934" (C&GS) ✓	Safford
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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~~ "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 /

7.16.58

FILE COPY

FILE COPY

Arizona (113)

Graham County

BOMPT (CAGS)

1927 N.A.D.

USCGS, 1955

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 ✓

FILE COPY

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

FILE COPY

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

*= 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

FILE COPY

3-8-60 es ✓

FILE COPY

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 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. 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.

FILE COPY

ARIZONA ZONE EAST

X= 658.607
Y= 666,712

Elevation: 3047 ft.

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"

NAD 83 VALUES AVAILABLE

10/18/57 Jk ✓
m. m.

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. $\left(\frac{1}{12} \mid \frac{6}{7}\right)$ in T. 7 S., R. 26-27 E. (Due S. from Lone Star $\left(\frac{1}{12} \mid \frac{6}{7}\right)$ 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

FILE COPY

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

FILE COPY

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...

FILE COPY

✓

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

FILE COPY

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

V.A. Elevation: 3120 ft.

X=665,052

Y=637,406

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

FILE COPY

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 6S 127E

T. 27-23 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"	14,007.86
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

of

✓

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. E. Blake. 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 /

M. M.

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)

NAD 27 to NAD 83 Conversion

Statistics for Region

=====

	Latitude		Longitude	
	MIN	MAX	MIN	MAX
Range of shift (meters)	6.891	7.492	59.015	59.559
Range of shift (seconds)	.224	.243	2.268	2.292
Mean shift (meters)		7.172		59.287
Variance of mean shift		.027		.040
Std. Dev. of mean shift		.164		.200
Mean shift (seconds)		.233		2.280
Variance of mean shift		.000		.000
Std. Dev. of mean shift		.005		.008

The total number of conversions: 21

Region of Conversions

```

NAD 27
Longitude:      109 44 12.980                109 30 38.480
Latitude:      32 58 31.090 ***** 32 58 31.090
                *
                *
                *
                *
                *
                *
                *
                *
                *
                *
                *
                *
                *
                *
                *
                *
Latitude:      32 45 2.700 ***** 32 45 2.700
Longitude:    109 44 12.980                109 30 38.480
    
```


UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
 MULTIPLE STATION LISTING

PROCESS DATE 0

STATION	NUMBER	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	LOCAL IDENT- I- FLIER	AGENCY CODE	STATE	DIST- RICT	COUNTY	SITE
09442000	112	32 57 57	109 18 35	00	GILA RIVER NEAR CLIFTON	USGS	04	04	011	S.
09462200	114	32 50 08	109 59 37	00	AGRICUL RESCH SER SAFFOR	USGS	04	04	009	S.
09451900	113	32 50 27	109 31 17	00	AGRICUL RESRCH SERV SAFF	USGS	04	04	009	S.
09447800	113	32 57 20	109 31 50	00	RUNITA CREEK NEAR MORENC	USGS	04	04	009	S.
09460200	114	32 50 00	109 45 39	00	FRYE CREEK AT THATCHER,	USGS	04	04	009	S.
09448500	113	32 52 06	109 30 38	00	GILA R AT HEAD OF SAFFOR	USGS	04	04	009	S.
09451000	113	32 52 00	109 31 00	00	GILA R NR SOLUMON ARTZ	USGS	04	04	009	S.
09458500	113	32 50 50	109 42 55	00	GILA RIVER AT SAFFORD, A	USGS	04	04	009	S.
525858109215801	112	32 58 58	109 21 58	01	SAN FRANCISCO R ABV GILA	USGS	04	04	011	S.
09457000	111	32 48 06	109 38 19	00	SAN SIMON RIVER NEAR SOL	USGS	04	04	009	S.
09451800	112	32 51 00	109 20 15	00	TULLGATE WASH TRIB NEAR	USGS	04	04	009	S.

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 Geodetic Control Unit
 DO NOT REMOVE

28 JUN 1952

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
 MULTIPLE STATION LISTING

PROCESS DATE 06/10

STATION NUMBER	GEO- LOGIC UNIT	URBAN- AGE AREA (SQ. MI.)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	DEPTH OF WELL, TOTAL (FEET)
09442000	--	4010	5336.35	--
09462200	--	1.07	--	--
09451900	--	.01	--	--
09447800	--	302	--	--
09460200	--	24.5	--	--
09448500	--	7900	5064.88	--
09451000	--	7950	--	--
09458500	--	10500	2800.07	--
325858109215801	--	--	--	--
09457000	--	2190	2060.15	--
09451800	--	.12	--	--

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 Geodetic Control Unit
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28 JUN 1982

G-15931

FILE COPY

MAR 29 1978

FIELD GEOGRAPHIC POSITIONS

LOCALITY SAFFORD - CLIFTON TRAVERSE CLASS 1
NORTH AMERICAN 1927 DATUM 2nd ORDER TRIANGULATION STATE ARIZONA (113)

STATION	LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE
					METERS
OMON. 112	32 49 57.6953, 109 25 30.2948.	239 51 58.30, 73 57 00.41.	59 55 35.78, 253 54 01.47.	GUTHRIE, SOL.	12,046.635 8,936.735.
YUMA ADOT. 112	32 49 38.1060, 109 27 28.1857.	251 13 32.35, 258 51 27.53.	71 15 35.02, 78 52 31.44.	TOLLGATE ADOT, OMON.	6,213.620. 3,125.099.
SOL. 113	32 48 37.3668, 109 31 00.4244.	251 15 46.31, 285 09 25.87.	71 17 41.34, 105 17 43.65.	YUMA ADOT, ASH PEAK,	5,829.345 24,795.888
JUDIA ADOT. 113	32 47 29.1198, 109 33 01.5890.	236 17 29.88, 291 49 51.98.	56 18 35.52, 111 51 32.42.	SOL, LORENZO.	3,789.208 5,201.032.
LORENZO. 112	32 46 26.2965, 109 29 56.0785.	157 28 58.29,	337 28 23.44.	SOL.	4,371.036
WRIGHT ADOT. 112	32 45 53.2831, 109 27 21.2838.	104 10 41.48, 290 54 30.71.	284 09 17.70, 110 56 14.87.	LORENZO, SETH.	4,155.230 5,364.864.
SETH. 88	32 44 51.0888, 109 24 08.7780.	267 58 35.98, 108 00 01.74.	88 03 10.64, 287 56 53.80.	ASH PEAK, LORENZO.	13,225.399 9,503.948
SLICK ADOT. 112	32 45 11.2474, 109 21 29.9010.	81 28 24.84, 261 07 09.82.	261 26 58.89, 81 08 16.48.	SETH, ROCK ADOT.	4,182.380 3,245.926.
ROCK ADOT. 112	32 45 27.4974, 109 19 26.6990.	211 32 46.40, 220 26 13.77.	31 33 45.87, 40 26 58.74.	RHY ADOT, MICRO ADOT.	5,462.945 3,333.629
MICRO ADOT. 112	32 46 49.8566, 109 18 03.6112.	198 11 53.08, 310 46 09.43.	18 12 07.57, 130 47 26.58.	RHY ADOT, ASH PEAK.	2,229.723 4,900.044
RHY ADOT 112	32 47 58.6173, 109 17 36.8480.	230 33 33.13, 330 27 21.10.	50 33 34.04, 150 28 23.78.	CO. LINE MK GGBS? ASH PEAK.	56.430 6,113.053

NAD 83 VALUES AVAILABLE

No check on this position. Abbreviations used: d.=described; m.=marked; n.=not; r.=recovered; l.=lost; p.=probably.
SIE SILVER CITY (Examples: n.d.=not described; p. l.=probably lost.)

32 109 4

32°45'
109°30'

ARIZONA 113

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

NAD 83 VALUES AVAILABLE

JULY 1966

U.S. DEPARTMENT OF COMMERCE
 ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
 COAST AND GEODETIC SURVEY
 REVISED APRIL 1970

HORIZONTAL CONTROL DATA

by the
 Coast and Geodetic Survey
 NORTH AMERICAN 1927 DATUM

QUAD 321094 STATION 1008
 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: BENCH MARK W 40 YEAR: 1945
 STATE: Ariz LOCALITY: Globe to Clifton, Southeastern Arizona
 Second-ORDER Triangulation SOURCE: G-7961 FIELD SKETCH: ARIZ 20

GRID DATA	COORDINATES (Feet)	PLANE AZIMUTH θ FOR SCS ANGLE	MARK
STATE: Ariz ZONE: E CODE: 0201	x 691,987.63 y 667,295.55	93°38'14" + 0 20 20	AZIMUTH MARK
STATE: ZONE: CODE:	x y		

GEODETIC DATA	POSITION		SECONDS IN METERS	ELEVATION
	LATITUDE: 32°49'58".575 LONGITUDE: 109 32 29.848	NORTH WEST		974.50 3,197.2 METERS FEET

TO STATION	GEODETIC AZIMUTH (From south)	DISTANCE	
		LOGARITHM (Meters)	METERS
AZIMUTH MARK	THIRD-ORDER 93°58'33".5		

B.M. W 40 (Graham County, Ariz., R.A.M., 1945)---Station is located in rolling desert land on the N side of U.S. Highway 666, about 5-1/2 miles (air line) ENE of Solomonville.

To reach the station from the post office in Solomonville, go S for 0.1 mile, then E for 2.0 miles on U.S. Highway 70 to a left fork which is the junction with U.S. Highway 666. Turn left on U.S. Highway 666 towards Clifton for 3.35 miles to the azimuth mark on the left, 64.6 feet N of the center line of the highway. Continue along the highway for 0.5 mile to the station on the left, 47 feet N of the center of the 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 "W40 1934." It is located 9.4 feet E 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 "BM W40 NO 1 1945." It is NE of the station on about the same level.

Reference mark 2 is a bronze reference disk set in a square concrete post which projects about 2 inches above the ground and is stamped "BM W40 NO 2 1945." It is NW of the station on about the same level.

Azimuth mark is a bronze azimuth disk set in a square concrete post level with the ground and is stamped "BM W40 1945." It is W of the station and 5.6 feet NNE of a 4- by 4-inch white witness post.

OBJECT	DISTANCE	DIRECTION
GILABOX (U.S.S.E.S.)	meters feet	0°00'00"0
R.M. 1 NE	14.197 46.581	9 39 20
Azimuth Mark W	0.5 mile	225 06 02.7
R.M. 2 NW	13.873 45.518	275 26 37
Height of instrument above station mark - 1.6 meters.		

B.M. W 40 (Graham County, Ariz., R.A.M., 1945; W.T.J., 1955) Station and all marks recovered as described in good condition. Town of Solomonville now officially Solomon.

B.M. W 40 (Graham Co., R.A.M., 1945; Army Map Serv., 1968)---Station is located about 9.8 airmiles (E) of Safford and 3.2 airmiles (ENE) of San Jose, Arizona.

To reach from Safford go (E) on US 70 to San Jose then left (NE) on old US 666 for 2.1 miles to a fork, take right fork for 1.8 miles. Station is on left (N) side of road. It is a standard USC&GS bronze BM disk set in a concrete post stamped "W40 1934" and is located 48.916 ft (N) of the E of the road and 9.514 ft (E) of a witness post.

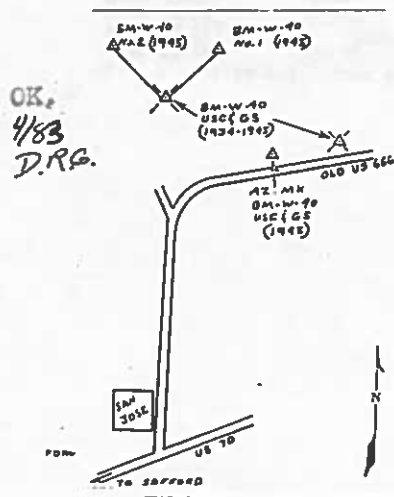
Reference Mark #1 is a standard USC&GS bronze disk that is (NE) on a Mag Az of 46° at a distance of 46.588 ft and a DE of -0.22 feet.

Reference Mark #2 is a standard USC&GS bronze disk that is (NW) on a Mag Az of 314° at a distance of 45.515 ft and a DE of -0.52 ft.

Azimuth Mark is set in a concrete post stamped "BM W40 1945" and is located 65.617 ft from E of road and 5.479 ft from a witness post. It is 0.5 mile on a Mag Az of 260° from the station.

Condition of all markers is excellent.

View is good in all directions.



HORIZONTAL CONTROL DATA

by the
 Coast and Geodetic Survey
 NORTH AMERICAN 1927 DATUM

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

114

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

B.M. T 153 (Graham County, Ariz., R.A.M., 1945)--Station is located by approximate air line distances: 11 miles NNW 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 macadam road continues N. Continue N, crossing the Gila River bridge, 2.15 miles to the public school in Bryces. 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, 3.8 miles to a wire enclosure on the right. Continue N along road 0.7 mile to the station, 64 feet WNW 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 WNW 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 "EM 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 3 inches above the ground and is stamped "BM T 153 NO 2 1945." It is NNW 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 8.4 feet NE of a 4- by 4-inch white witness post.

OBJECT		DISTANCE		DIRECTION
		meters	feet	0°00'00"±0
PIMA				
R.M. 2	NNW	13.754	45.120	119 51 26
Azimuth Mark	NNE	0.6	1.968	166 43.21.2
R.M. 1	ENE	22.253	73.015	206 02 48

Height of instrument above station mark - 1.6 meters.

GRID DATA	COORDINATES (Feet)	PLANE AZIMUTH & TON ANGLE	MARK
STATE: Ariz ZONE: E CODE: 0201	x 618,319.94 y 718,890.60	203°40'37" + 0 12 36	AZIMUTH MARK (1/4 S21 S22 GLO)
STATE: ZONE: CODE:			

GEODETIC DATA	POSITION		SECONDS IN METERS	ELEVATION
	LATITUDE: 32°58'32"601	NORTH WEST		1,076.29 METERS 3,531.1 FEET

TO STATION	GEODETIC AZIMUTH (From 0000)	DISTANCE	
		LOGARITHM (Meters)	METERS
AZIMUTH MARK (1/4 S21 S22 GLO)	THIRD-ORDER 203°53'13"0		

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JULY 1966

U.S. DEPARTMENT OF COMMERCE
 ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
 COAST AND GEODETIC SURVEY

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: BONIT YEAR: 1945
 STATE: ARIZ LOCALITY: Globe to Clifton, Southeastern Arizona
 Second-ORDER Triangulation SOURCE: G-7961 FIELD SKETCH: ARIZ 20

GRID DATA	COORDINATES (Feet)	PLANE AZIMUTH SIGN/JOINT ANGLE	MARK
STATE: Ariz ZONE: E CODE: 0201	x 696,446.60 y 702,433.58	111°41'28" + 0 20 53	AZIMUTH MARK
STATE: ZONE: CODE:			

GEODETIC DATA	POSITION		SECONDS IN METERS	ELEVATION
	LATITUDE: 32°55'45".995 LONGITUDE: 109 31 35.092	NORTH WEST		1,195.8 3,923

TO STATION	GEODETIC AZIMUTH (From south)	DISTANCE	
		LOGARITHM (Meters)	METERS
AZIMUTH MARK	THIRD-ORDER 112°02'20".6		

BONIT (Graham County, Ariz., R.A.M., 1945)--Station is located about 16 miles (air line) W of Guthrie, 15-1/2 miles (air line) SW of Clifton, 12-1/2 miles (air line) NE of Safford, and about 3 miles (air line) NW of the Gila River, on a high rolling ridge about 1-1/2 miles (air line) SW of Bonita Creek. It is along the road built by the Safford Municipal Water Works to reach the water pipeline on Bonita Creek.

To reach station from the post office in Solomonsville, go N on U.S. Highway 70 for 0.1 mile to where the highway turns left, keep straight ahead on the gravel road for 0.8 mile to the Gila River, ford the river and continue for 0.6 mile to a fork, take the right fork and continue for 1.0 mile to another fork. Take the right fork and continue for 4.3 miles to a cattle guard, pass through the cattle guard and continue for 0.8 mile to a school-house on the left. Continue straight ahead for 0.2 mile to a fork, take the left fork (main traveled road) and continue for 0.3 mile to a fork, take the left fork leading up on the ridge and continue for 0.4 mile to a wire gate. Pass through the gate and continue for 0.1 mile to a fork. Take the left fork and continue for 0.6 mile to another fork, take the right fork (main traveled road) and continue for 3.2 miles to a fork, take the left fork and continue for 0.9 mile to a fence and gate. Pass through the gate and continue for 1.0 mile to another gate, continue ahead for 0.1 mile to a fork, take the left fork, leaving the main road, and continue for 1.0 mile to the station on the right side of the road.

Station mark is a bronze station disk set in bedrock about 8 inches below the surface and is stamped "BONIT 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 "BONIT NO 1 1945." It is SW 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 "BONIT 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 "BONIT 1945." It is about 0.3 mile WNW of the station, 68 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	DISTANCE	DIRECTION
GILABOX (U.S.S.E.S.)	meters feet	0°00'00".0
Target	10 miles	46 37 34.4
R.M. 1	8.505 27.910	141 04 17
Azimuth Mark WNW	0.3 mile	205 31 35.0
R.M. 2	14.781 48.496	267 14 35
Height of instrument above station mark - 1.85 meters.		

OK
 4/83 PRG.

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ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

REVISED APRIL 1970

HORIZONTAL CONTROL DATA

by the
Coast and Geodetic Survey
NORTH AMERICAN 1927 DATUM

ARIZONA 113

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

PIMA (Graham County, Ariz., R.A.M., 1945)---Station is located 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 Cottonwood 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 0.25 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 WNW 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. 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 WNW of the center of the road, is NNE 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 WNW 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	meters feet	0°00'00"0
R.M. 1 NNE	13.751 43.800	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.M. 2 WNW	11.785 38.675	279 17 37
Height of instrument above station mark - 3.92 meters.		

PIMA (Graham Co., R.A.M., 1945; Army Map Service, 1968)---Mark is 9.3 airmiles (NW) of Safford, Arizona.

To reach from the Fire Department in Pima go (W) on US Hwy 70 for 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).

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: PIMA

YEAR: 1945

STATE: Ariz

LOCALITY: Globe to Clifton, Southeastern Arizona

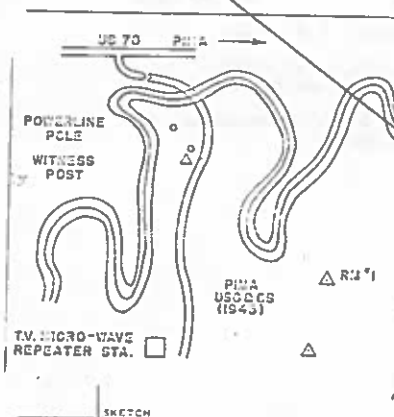
First -ORDER Triangulation SOURCE: G-7961

FIELD SKETCH: ARIZ 20

GRID DATA	COORDINATES (Feet)	PLANE AZIMUTH & TORION ANGLE	MARK
STATE: Ariz ZONE: E CODE: 0201	X 594,198.15 Y 686,827.21	218°27'24" + 0 10 00	AZIMUTH MARK
STATE: ZONE: CODE:	X Y		

GEODETIC DATA	POSITION		SECONDS IN METERS	ELEVATION
	LATITUDE: 32°53'16".113 LONGITUDE: 109°51'35".283	NORTH WEST		921.2 3,022

TO STATION	GEODETIC AZIMUTH (From south)	DISTANCE	
		LOGARITHM (Meters)	METERS
AZIMUTH MARK	THIRD-ORDER 218°37'23".9		



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113

JULY 1966

ARIZONA

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

HORIZONTAL CONTROL DATA

by the
Coast and Geodetic Survey
NORTH AMERICAN 1927 DATUM

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

320 45'
109° 30'

SAFFAIR (Graham County, Ariz., R.A.M., 1945)--Station is 4-1/2 miles (air line) NE of Safford and 3 miles N of Solomonsville 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 S 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 2.330 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		DISTANCE		DIRECTION
		Meters	feet	
SOL				0°00'00"0
R.M. 1	SE	20.047	65.771	29 12 41
R.M. 2	SW	15.148	49.698	124 20 28
Azimuth Mark	NW	0.7 mile		228 42 04.0
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)
Station and all marks recovered

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 YEAR: 1945
STATE: Ariz LOCALITY: Globe to Clifton, Southeastern Arizona
Second -ORDER Triangulation SOURCE: G-7961 FIELD SKETCH: ARIZ 20

GRID DATA	COORDINATES (Feet)	PLANE AZIMUTH θ (or θ _{cm}) ANGLE	MARK
STATE: Ariz ZONE: E CODE: 0201	x 662,492.85 y 673,645.71	160°01'23" + 0 17 13	AZIMUTH MARK
STATE: ZONE: CODE:	x y		

GEODETTIC DATA	POSITION		SECONDS IN METERS	ELEVATION	
	LATITUDE:	LONGITUDE:		NORTH WEST	METERS FEET
	32°51'03"004	109 38 15.149		962.61 3,158.2	

TO STATION	GEODETTIC AZIMUTH (From south)	DISTANCE	
		LOGARITHM (Meters)	METERS
AZIMUTH MARK	THIRD-ORDER 160°18'36"2		

OK 3/83
D.R.G.

1969

C+GS 2nd Order Bm Elev. 3158.173 ft

C+GS Bm

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HORIZONTAL CONTROL DATA

by the
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QUAD 321094 STATION 1023
 ARIZ
 LATITUDE 32°30' TO 33°00'
 LONGITUDE 109°30' TO 110°00'
 DIAGRAM NI 12-12 SILVER CITY

113

SOL (Graham County, Ariz., R.A.M., 1945)--Station is 6-1/2 miles (air line) E of Solomonville, about 3/4 mile S of U.S. Highway 666, and about 2 miles N of U.S. Highway 70. It is at the SE end of a low hill which is at the SE end of a low group of hills about 5 miles E of the junction of U.S. Highways 666 and 70.

To reach station from the junction of U.S. Highways 666 and 70 about 2 miles E of Solomonville, go E on U.S. Highway 666 for 4.5 miles to a cattle guard. Continue 0.1 mile to a dirt road to the right. From this point the azimuth mark is 2.1 miles along the highway opposite the end of the pavement to the right. Turn right on the track road and go 0.3 mile to a corral on the left. From here drive S cross country for 0.9 mile toward the E end of the ridge to the end of truck travel about halfway up the hill. From here pack S to the top and the station.

Station mark is a bronze station disk set in bedrock flush with the surrounding surface and is stamped "SOL 1945." It is 15 feet S of the witness post.

Reference mark 1 is a bronze reference disk set in bedrock flush with the surrounding surface and is about 10 inches below the station. The mark is SE of the station and the disk is stamped "SOL NO 1 1945."

Reference mark 2 is a bronze reference disk set in bedrock flush with the surrounding surface and is about 9 inches below the station. The mark is SW of the station and the disk is stamped "SOL NO 2 1945."

Azimuth mark is a bronze bench-mark disk set in a square concrete post projecting 6 inches above the ground and is stamped "U 40 1934." It is nearly in the line of telephone poles. It is 11-1/2 feet SE of the witness post, 131 feet S of the center of the Clifton road, and 86 feet S of the fence line.

OBJECT	DISTANCE	DIRECTION
	meters	feet
WICK		0°00'00"0
Webber Peak		63 51 10.9
Azimuth Mark	ENE 2 miles	165 39 50.7
R.M. 1	SE 10.924	35.849 236 50 46
R.M. 2	SW 17.908	58.754 328 36 11
Height of light above station mark - 1.0 meter.		
Height of instrument above station mark - 1.6 meters.		

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

SOL (Graham Co., R.A.M., 1945; Army Map Serv., 1967)---Station is located about 11.4 airmiles (E) of Safford and 4.2 airmiles (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 Mag Az of 126° 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 Mag Az of 218° at a distance of 59.480 ft and a DE of -9.35 feet.

Azimuth Mark is a USC&GS 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 on 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.

ADJUSTED HORIZONTAL CONTROL DATA

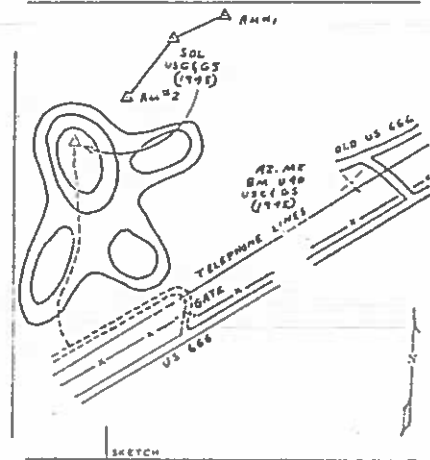
NAME OF STATION: SOL YEAR: 1945
 STATE: Ariz LOCALITY: Globe to Clifton, Southeastern Arizona
 First -order Triangulation SOURCE: G-7961 FIELD SKETCH: ARIZ 20

GRID DATA	COORDINATES (Feet)	PLANE AZIMUTH & FORWARD ANGLE	MARK
STATE: Ariz ZONE: E CODE: 0201	x 699,668.41 y 659,134.93	247°00'33" + 0 21 08	AZIMUTH MARK (BENCH MARK U 40)
STATE: ZONE: CODE:			

GEODETIC DATA	POSITION		SECONDS IN METERS	ELEVATION
	LATITUDE:	LONGITUDE:	NORTH WEST	METERS FEET
	32°48'37"368	109 31 00.420		1,065.7 3,496

TO STATION	GEODETIC AZIMUTH (From south)	DISTANCE	
		LOCATIONS (Meters)	METERS
AZIMUTH MARK (BENCH MARK U 40)	THIRD-ORDER 247°21'40"4		

OK 4/83 DRG.



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HORIZONTAL CONTROL DATA

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 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: 18-1/2 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 RS 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 a fork and 18 feet SSE of the center of the road. This is about 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 87 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 NNE 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 5.8 feet NW of a 4- by 4- inch white witness post.

OBJECT	DIRECTION	DISTANCE	DIRECTION
		meters	feet
DRY MTN (U.S.F.S.)			0°00'00"0
Brick chimney on Tanque			
R.R. station	ENE	1/4 mile	21 35 24
Azimuth Mark	ENE	0.2 mile	23 15 25.8
R.M. 2	SE	24.458	60.238
Windmill	NNW	2 miles	307 04 12
R.M. 1	NNE	9.687	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 Willcox, Southeastern Arizona
 Second -ORDER Triangulation SOURCE: G-7961 FIELD SKETCH: ARIZ 21

GRID DATA	COORDINATES (Feet)	PLANE AZIMUTH θ (FOR ANG. ANGLE)	MARK
STATE: ARIZ ZONE: E CODE: 0201	X 692,506.41 Y 584,672.31	238°07'46" + 0 20 13	AZIMUTH MARK (BENCH MARK USGS)
STATE: ZONE: CODE:	X Y		

GEODETIC DATA	POSITION		SECONDS IN METERS	ELEVATION
	LATITUDE:	LONGITUDE:		
	32°36'20"980	109 32 29.479	NORTH WEST	1,003.1 METERS 3,291 FEET

TO STATION	GEODETIC AZIMUTH (From south)	DISTANCE	
		LOGARITHM (Meters)	METERS
AZIMUTH MARK (BENCH MARK USGS)	THIRD-ORDER 238°27'58"9		

ARIZONA

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HORIZONTAL CONTROL DATA

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QUAD 321094 STATION 1026
 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: THATCHER USSES YEAR: 1945
 STATE: ARIZ LOCALITY: Globe to Clifton, Southeastern Arizona
 Second -ORDER Triangulation SOURCE: G-7961 FIELD SKETCH: ARIZ 20

GRID DATA	COORDINATES (Foot)	PLANE AZIMUTH # (ON FACE ANGLE)	MARK
STATE: Ariz ZONE: E CODE: 0201	x 631,765.86 y 683,064.32	5°48'00" + 0 13 52	AZIMUTH MARK
STATE: ZONE: CODE:	x y		

GEODETIC DATA	POSITION		SECONDS IN METERS	ELEVATION	
	LATITUDE:	LONGITUDE:		NORTH WEST	METERS FEET
	32°52'37"582	109 44 14.893		919.4 3,016	

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

OK 3/83
 O.R.-6.

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

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 NNW of Safford, and 2-1/2 miles NNE 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). Continue 0.1 mile to road turning off to right. Turn right and follow 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 station 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		DIRECTION
	meters	feet	
WICK			0°00'00"0
Azimuth Mark S	1/4 mile		19 31 35.5
Lookout tower, Heliograph Pk. Church steeple in Thatcher			35 58 31.6
R.M. 1 W	14.330	46.945	44 36 20
R.M. 2 N	20.343	66.745	101 27 38
Water tank in Safford			187 28 17
Height of instrument above station mark - 1.5 meters.			347 52 33

THATCHER (U.S.S.E.S.) (Graham County, Ariz., R.A.M., 1945; W.T.J., 1955)
 Station and reference marks recovered as described in good condition. Azimuth mark was not recovered. The cattle guard referred to in the 1945 description and all culverts along this road have been rebuilt since that date. Azimuth mark lost.

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JULY 1966

U. S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

HORIZONTAL CONTROL DATA

by the
Coast and Geodetic Survey
NORTH AMERICAN 1927 DATUM

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

ARIZONA

113

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, 11 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 azimuth 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 1934."

Reference mark 1 is a bronze reference disk set in outcropping bedrock and is stamped "VAN GAUSIG NO 1 USFS 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 USFS 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 490+30 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 7.815 meters (25.650 feet) SSE of the station and about 5 feet lower.

OBJECT	DISTANCE	DIRECTION
	meters feet	0°00'00"0
DRY MTN (U.S.F.S.)		60 10 40
R.M. 2 ESE	13.389 43.922	
Helio Pk. Lookout		
Tower NW	15 miles	262 19 02.3
Azimuth Mark NE	1 mile	342 10 52.9
R.M. 1 NE	6.075 19.935	358 30 24
Height of instrument above station mark - 1.84 meters.		

RECOVERY NOTE, TRIANGULATION STATION

NAME OF STATION: VAN GAUSIG (USFS) **R**
ESTABLISHED BY: R.A.M. YEAR: 1934 STATE: Ariz. BENCH MARK(S) ALSO
RECOVERED BY: USGS YEAR: 1965 COUNTY: Graham

AIRLINE DISTANCE AND DIRECTION FROM NEAREST TOWN:

Detailed statement as to the (track) of the original description; including marks found, stampings, 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.

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: VAN GAUSIG USFS YEAR 1945
STATE: Ariz LOCALITY: Safford to Willcox, Southeastern Arizona
First-Order Triangulation SOURCE: G-7961 FIELD SKETCH: ARIZ 21

GRID DATA	COORDINATES (Feet)	PLANE AZIMUTH & CORRECTION ANGLE	MARK	
STATE: Ariz ZONE: E CODE: 0201	X 644,204.28 Y 557,537.72	212°37'54" + 0 15 06	AZIMUTH MARK (BENCH MARK ARIZ HWY DEPT)	
STATE: ZONE: CODE:	X Y			
GEODETIC DATA	POSITION		SECONDS IN METERS	ELEVATION
	LATITUDE: LONGITUDE:	32°31'54"925 109 41 55.537	NORTH WEST	1,557.4 5,110 METERS FEET
TO STATION		GEODETIC AZIMUTH (From south)	DISTANCE	
AZIMUTH MARK (BENCH MARK ARIZ HWY DEPT)		THIRD-ORDER 212°52'59"8	LOGARITHM (Meters)	METERS

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JULY 1966

ARIZONA

U. S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY
REVISED APRIL 1970

320451
109°30'

HORIZONTAL CONTROL DATA

by the
Coast and Geodetic Survey
NORTH AMERICAN 1927 DATUM

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

WICK (Graham County, Ariz., R.A.M., 1945)—Station is located about 3 miles (air line) S of Safford, about 90 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 cross 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 90 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 12 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 WNW 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 "STA 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.

OBJECT	DISTANCE	DIRECTION
FRYE (U.S.S.E.S.)	meters feet	0°00'00"0
R.M. 2	13.916 45.665	39 22 45
Church steeple (Thatcher)		62 15 40
Water tower (Safford)		97 54 54
R.M. 1	NNE 10.173 33.370	128 49 17
Azimuth Mark	NE 0.3 mile	134 58 31.8
Height of instrument above station mark - 1.63 meters.		

WICK (Graham Co., R.A.M., 1945; Army Map Serv., 1968)--- Station is located approximately 3 airmiles (S) of Safford, Arizona; 5.3 airmiles (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 (NNE) 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.

DK 3183
D.R.B.

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: WICK

YEAR: 1945

STATE: Ariz

LOCALITY: Globe to Clifton, Southeastern Arizona

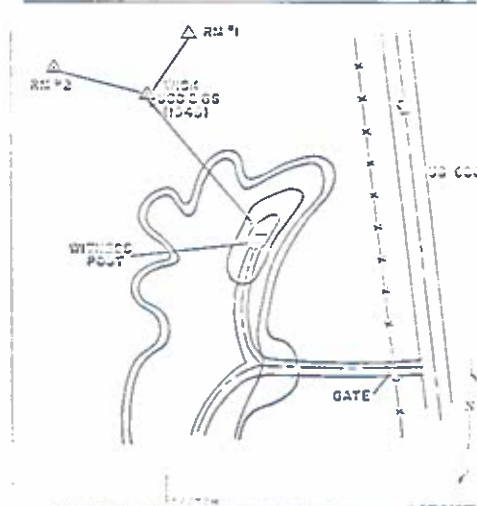
First -ORDER Triangulation SOURCE: G-7961

FIELD SKETCH: ARIZ 20

GRID DATA	COORDINATES (Feet)	PLANE AZIMUTH θ FOR 3rd ORDER ANGLE	MARK
STATE: ARIZ ZONE: E CODE: 0201	x 639,835.73 y 650,027.03	218°24'01" + 0 14 47	AZIMUTH MARK (BENCH MARK ARIZ HWY DEPT)
STATE: ZONE: CODE:	x y		

GEODETIC DATA	POSITION		SECONDS IN METERS	ELEVATION	
	LATITUDE:	NORTH WEST		METERS	FEET
	32°47'10"337			946.6	
	109 42 41.935			3,106	

TO STATION	GEODETIC AZIMUTH (From south)	DISTANCE	
		LOGARITHM (Meters)	METERS
AZIMUTH MARK (BENCH MARK ARIZ HWY DEPT)	THIRD-ORDER 218°38'47"9		



V.A. & Rev. 3107A - (ASOS 1965)

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JULY 1966
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 WASHINGTON D.C.

HORIZONTAL CONTROL DATA

by the
 Coast and Geodetic Survey
 NORTH AMERICAN 1927 DATUM

QUAD 321094 STATIONS 1030, 1031
 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: HELIO PEAK LOOKOUT TOWER YEAR: 1945
 STATE: ARIZ LOCALITY: Glenbar to Willcox, Southeastern Arizona
 Third-Order Triangulation SOURCE: G-7961 FIELD SKETCH: ARIZ 22

GRID DATA	COORDINATES (Feet)	PLANE AZIMUTH & IONOSPHERIC ANGLE	MARK
STATE: Ariz ZONE: E CODE: 0201	x 597,920.03 y 600,344.07	+ 0 10 18	
STATE: ZONE: CODE:	x y		

GEODETTIC DATA	POSITION		SECONDS IN METERS	ELEVATION
	LATITUDE:	NORTH WEST		METERS FEET
	32°39'00"214			3,087.1
	LONGITUDE: 109 50 54.683			10,128

TO STATION	GEODETTIC AZIMUTH (From south)	DISTANCE	
		LOGARITHM (Meters)	METERS
Computed from stations ESTES, DURKEE, GREASE			

HELIO PEAK LOOKOUT TOWER (Graham County, Ariz., R.A.M., 1945; W.T.J., 1955) (No previous description)--Station is a forest service lookout tower located on Hellograph Peak, about 1 1/4 mi. S of Safford. 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 YEAR: 1945
 STATE: Ariz LOCALITY: Globe to Clifton, Southeastern Arizona
 Third-Order Triangulation SOURCE: G-7961 FIELD SKETCH: ARIZ 20

GRID DATA	COORDINATES (Feet)	PLANE AZIMUTH & IONOSPHERIC ANGLE	MARK
STATE: Ariz ZONE: E CODE: 0201	x 581,994.86 y 726,927.34	+ 0 08 44	
STATE: ZONE: CODE:	x y		

GEODETTIC DATA	POSITION		SECONDS IN METERS	ELEVATION
	LATITUDE:	NORTH WEST		METERS FEET
	32°59'53"241			870.2
	LONGITUDE: 109 53 57.203			2,855

TO STATION	GEODETTIC AZIMUTH (From south)	DISTANCE	
		LOGARITHM (Meters)	METERS
Computed from stations BLACK, GOOD, PIMA			

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.

113

32 45
109 30

JULY 1966
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HORIZONTAL CONTROL DATA

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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
YEAR: 1945
STATE: Ariz LOCALITY: Globe to Clifton, Southeastern Arizona
Third-Order Triangulation SOURCE: G-7961 FIELD SKETCH: ARIZ 20

GRID DATA	COORDINATES (Feet)	PLANE AZIMUTH § (ON 2nd 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
	LATITUDE:	NORTH WEST		METERS FEET
	32°49'32.095		949.2	
	109 42 49.665		3,114	
TO STATION		GEODETIC AZIMUTH (From south)	DISTANCE	
			LOGARITHM (Meters)	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 S 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 180 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 lost. Tower taken down about 1946 and moved about 2.5 mi. E of Safford.

ADJUSTED HORIZONTAL CONTROL DATA

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

OK 3/83
D.R.G.

GRID DATA	COORDINATES (Feet)	PLANE AZIMUTH § (ON 2nd 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
	LATITUDE:	NORTH WEST		METERS FEET
	32°49'44.955		932.5	
	109 42 36.864		3,059	
TO STATION		GEODETIC AZIMUTH (From south)	DISTANCE	
			LOGARITHM (Meters)	METERS

Computed from stations WICK, PIMA, 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.

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113 ARIZONA
 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 (Feet)	PLANE AZIMUTH θ (GRAD) ANGLE	MARK
STATE: Ariz ZONE: E CODE: 0201	x 664,260 y 660,077	+ 0 17 23	
STATE: ZONE: CODE:	x y		

GEODETTIC DATA	POSITION		SECONDS IN METERS	ELEVATION	
	LATITUDE:	NORTH WEST		METERS	FEET
	32°48'48".65			915.1	
	LONGITUDE: 109 37 55.24			3,002	

TO STATION	GEODETTIC AZIMUTH (From south)	DISTANCE	
		LOGARITHM (Meters)	METERS
Computed from station WICK, DRY MTN USFS			

SOLOMONSVILLE, SCHOOLHOUSE, CHIMNEY (Graham County, Ariz., R.A.M., 1945; W.T.J., 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: THATCHER CHURCH STEEPLE YEAR: 1945
 STATE: Ariz LOCALITY: Globe to Clifton, Southeastern Arizona
 Third-order Triangulation SOURCE: G-7961 FIELD SKETCH: ARIZ 20

GRID DATA	COORDINATES (Feet)	PLANE AZIMUTH θ (GRAD) ANGLE	MARK
STATE: Ariz ZONE: E CODE: 0201	x 625,004.17 y 671,756.92	+ 0 13 15	
STATE: ZONE: CODE:	x y		

GEODETTIC DATA	POSITION		SECONDS IN METERS	ELEVATION	
	LATITUDE:	NORTH WEST		METERS	FEET
	32°50'45".958			915.8	
	LONGITUDE: 109 45 34.691			3,005	

TO STATION	GEODETTIC AZIMUTH (From south)	DISTANCE	
		LOGARITHM (Meters)	METERS
Computed from stations PIMA, THATCHER USSES, WICK			

THATCHER 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 Thatcher. The building is believed to be the school chapel.

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113
32 45
109 30

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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 NI 12-12 SILVER CITY

ADJUSTED HORIZONTAL CONTROL DATA

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

GRID DATA	COORDINATES (Feet)	PLANE AZIMUTH @ (ORDR) ANGLE	MARK
STATE: ARIZ ZONE: E CODE: 0201	x 575,217.90 y 622,600.51	+ 0 07 56	
STATE: ZONE: CODE:	x y		

GEODETTIC DATA	POSITION		SECONDS IN METERS	ELEVATION
	LATITUDE:	NORTH WEST		METERS FEET
	32°42'41"051		3,074.2	
	LONGITUDE: 109 55 19.615		10,086	

TO STATION	GEODETTIC AZIMUTH (From south)	DISTANCE	
		LOGARITHM (Meters)	METERS

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

ADJUSTED HORIZONTAL CONTROL DATA

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

GRID DATA	COORDINATES (Feet)	PLANE AZIMUTH @ (ORDR) ANGLE	MARK
STATE: ARIZ ZONE: E CODE: 0201	x 665,308.59 y 708,567.71	+ 0 17 35	
STATE: ZONE: CODE:	x y		

GEODETTIC DATA	POSITION		SECONDS IN METERS	ELEVATION
	LATITUDE:	NORTH WEST		METERS FEET
	32°56'48"415		1,862.6	
	LONGITUDE: 109 37 40.051		6,111	

TO STATION	GEODETTIC AZIMUTH (From south)	DISTANCE	
		LOGARITHM (Meters)	METERS

Computed from stations PIMA, BRYCE USQS, SOL

WEBBER PEAK, TARGET (Graham County, Ariz., R.A.M., 1945; W.T.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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