

WILLCOX (66)

Arizona

32 109 34

E.E. Harris, 1937

Third Order Adjusted Elevations Based on National Geodetic Vertical Datum of 1929

Book: B 7327

Latitude 32°15' Longitude 109°45'

- (1) FROM NEAR THE SOUTHWEST CORNER OF SECTION 29 T12S R24E NORTH AND WEST INTO THE NORTHEAST CORNER OF WINCHESTER MTS QUADRANGLE (67) (By E.E. Harris, 1937; Book: B 7327)

T12S, R24E, near southwest corner section 29; 70 ft N. and 30 ft E. of X-rd. W.; 1 ft W. of fence line; in concrete post; standard tablet stamped "1937 H 26 4237" (Revised 1942 by R.E. Skinner) (Destroyed) 4236.786

Reference mark, 215 ft SW. of tablet; in crotch of mesquite tree; copper nail and washer *S.F.M.F. '79* 4236.39

T12S, R24E, near southwest corner section 20; 120 ft N. and 110 ft E. of dim X-rds.; near center of top face of north wall of concrete box watering trough; chiseled square *DEST '79* 4246.78

T12S, R24E, near southwest corner section 17; 80 ft N. and 30 ft E. of jct. of T-rd. W.; 1 ft SW. of fence line; in concrete post; standard tablet stamped "1937 H 27 4255" 4255.072

T12S, R24E, near southeast corner section 7; 4.5 mi S. of Crookeson Ranch; 180 ft N. and 100 ft W. of jct. of T-rd. W.; near center of top face of east wall of concrete box watering trough; chiseled square *S.F.M.F. '79* 4265.67

T12S, R23E, near southeast corner section 12; 30 ft N. of center of rd.; 1 ft S. and 58 ft W. of T-angle in fence line; in concrete post; standard tablet stamped "1937 H 28 4269" (Destroyed) *DEST. '79* 4268.901

Reference mark, 300 ft SE. of tablet; on south side of rd.; in crotch of mesquite tree; copper nail and washer *S.F.M.F. '79* 4267.75

T12S, R23E; near southeast corner section 11; on west edge of rd.; 80 ft N. of X-rds.; in 4-inch hub; copper nail and washer *S.F.M.F. '79* 4275.00

T12S, R23E, near southwest corner section 1; 85 ft N. and 28 ft E. of jct. of T-rd. W.; 1 ft W. of fence line; in concrete post; standard tablet stamped "1937 H 29 4286" (Destroyed) *'79* 4286.178

Reference mark, 155 ft SW. of tablet; on west edge of rd.; 1 ft E. of fence line; in 4-inch hub; copper nail and washer *S.F.M.F. '79* 4286.31

Top of iron pipe with GLO cap stamped "TPS 11 & 12S R23E 36 1 2 1913" *Not Found '79* 4292.882

QUADS:

*WEST OF GRASSWOOD MTN
GRASSWOOD MTN
SQUARE MTN
WILCOX NORTH*

Third Order Adjusted Elevations Based on National
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Book: B 7327

- (1) T11S, R23E, near southwest corner section 35; 23 ft W. of center of rd.; 60 ft N. of E.-W. fence line; 1 ft E. of fence line; in concrete post; standard tablet stamped "1937 H 30 4305" Not Found '79
4304.902
- Reference mark, 50 ft S. and 153 ft W. of tablet; iron pipe with GLO cap stamped "T11N R23E SECS 34 35 2 3 1913" (Designated SULPHUR Triangulation Station by Hankin, 1940 or 1941) 4304.830
- Iron pipe with GLO cap stamped "T11S R23E 1/4 COR SECS 34 35 1913" Not Found '79
4305.868
- Iron pipe with GLO cap stamped "T11S R23E SECS 26 27 34 35 1913" Not Found '79
4309.635
- T11S, R23E, near southwest corner section 23; 31 ft E. of center of rd.; 102 ft N. of T-angle in fence line; in concrete post; standard tablet stamped "1937 H 31 4324" (Destroyed) 4324.019
- Reference mark, 147 ft SW. of tablet; iron pipe with GLO cap erroneously stamped "T11S R23E 34 33 4 3 1913" Not Found '79
4324.460
- Iron pipe with GLO cap stamped "T11S R23E 1/4 COR 22 23 1913" Not Found '79
4335.562
- T11S, R23E, near northwest corner section 23; on east edge of rd.; 80 ft S. of center of E.-W. rd.; 1 ft W. of fence line; in 4-inch hub; copper nail and washer 4345.78
- T11S, R23E, near southeast corner section 16; about 3.7 mi SE. of Hooker Ranch; 70 ft W. of rd. at prominent angle from W. to NW.; 91 ft S. of cattleguard; 175 ft N. of corner fencepost; in concrete post; standard tablet stamped "1937 H 32 4344" 4343.616
- Reference mark, 260 ft SE. of tablet; cap on iron pipe stamped T11S R23E" 9/11/79
4342.776

WILLCOX (66)

Arizona

32 109 34

E.E. Harris, 1939

Third Order Adjusted Elevations Based on National
Geodetic Vertical Datum of 1929

Book: B 8347

Latitude 32°15' Longitude 109°45'

- (2) FROM POINT 8 MILES SOUTH OF BONITA NORTH ALONG ROAD INTO MT. GRAHAM
QUADRANGLE (90) (By E.E. Harris, 1939; Book: B 8347)

Bonita, 8 mi S. of; iron pipe with GLO cap stamped "1/4 COR SECS
14 15 1913" 4359.184

Bonita, 7.5 mi S. of; near southwest corner section 11, T11S,
R23E; 38 ft E. of center of hwy.; 93 ft N. and 1 ft W. of T-angle
in fence line; in concrete post; standard tablet stamped "1939 H 3
4372" 4372.282 *Not Found '79*

Reference mark, 155 ft SW. of tablet; iron pipe with GLO cap
stamped "T11S, R23E SECS 10 11 14 15" 4372.324 *9 FNF 109*

Bonita, 6.5 mi S. of; iron pipe with GLO cap stamped "T11S R23E
SECS 2 3 10 11 1913" 4398.382

FILE COPY

5/14/76 dld

32 109 34
W.A.E. Hult, 1907
W.A. Allen, 1940
B.K. Coker, 1974

WILLCOX (66) Arizona

Trunk Line Adjusted Elevations Based on National
Geodetic Vertical Datum of 1929

Books: A 6659, B 8852, PV 912
Latitude 32°15' Longitude 109°45'

(3) FROM THE WEST SIDE OF LUZENA QUADRANGLE (65) SOUTHWEST ALONG I-HIGHWAY
10 (BUSINESS) INTO THE NORTH EDGE OF COCHISE QUADRANGLE (46) (By W.A.E.
Hult, 1907; W.A. Allen, 1940; B.K. Coker, 1974; Books: A 6659, B 8852,
PV 912)

BM "B 324 1952" (NGS Quad 32 109 3, line 101) 4371.118
B 324 by NGS 4370.969 (1952 Elev.)

Willcox Post Office, 0.1 mi E. of to I-Hwy. 10 (Business), thence
7.0 mi NE. along I-Hwy. 10 (Business) and I-Hwy. 10; 100 ft NW. of
centerline of westbound traffic lanes, 0.5 ft SE. of right-of-way
fence; set in 12-inch square concrete post projecting 0.2 ft;
standard NGS reference mark disk stamped "NASH NO 1 1960" (NGS
Quad 32 109 3, line 103) *9-1165*
"NASHT No. 2, No. 3" 4356.536
NO 1 by NGS 4356.254 (1962 Elev.)

NASH TRIANGULATION STATION (NGS): Willcox Post Office, 0.1 mi E.
of to I-Hwy. 10 (Business), thence 7.0 mi NE. along I-Hwy. 10
(Business) and I-Hwy. 10; 96 ft NW. of centerline of westbound
traffic lanes, 4.5 ft SE. of fence; set in top of concrete post
flush with ground; standard NGS disk stamped "NASH 1960" (NGS Quad
32 109 3, line 103) *9-1165*
4356.360
NASH by NGS 4356.094 (1962 Elev.)

Willcox Post Office, 0.1 mi E. of to I-Hwy. 10 (Business), thence
7.0 mi NE. along I-Hwy. 10 (Business) and I-Hwy. 10; 99 ft NW. of
centerline of westbound traffic lanes, 0.7 ft SE. of fence; set in
concrete post projecting 2 inches; standard NGS reference mark disk
stamped "NASH NO 2 1960" (NGS Quad 32 109 3, line 103) *9-1165*
4356.455
NO 2 by NGS 4356.176 (1962 Elev.)

Willcox Post Office, 0.1 mi E. of to I-Hwy. 10 (Business), thence
6.2 mi NE. along I-Hwy. 10 (Business) and I-Hwy. 10; at point where
frontage rd. on north side of hwy. ends; 30 ft W. of gate in right-
of-way fence, 28 ft NW. of centerline of north frontage rd., 3 ft
W. of white angle-iron post with "S.L. 2408+92.25" painted on it,
2.5 ft E. of angle point in fence line; in right-of-way fence line;
set in concrete post; ASHD disk, unstamped *9-1165*
Not Found 790 *cut*
4326.055

Willcox Post Office, 0.1 mi E. of to I-Hwy. 10 (Business), thence
5.7 mi NE. along I-Hwy. 10 (Business) and I-Hwy. 10; about 0.1 mi
NW. across field from USGS BM "129 H 1907"; 20 ft SE. of centerline
of eastbound traffic lanes, level with hwy.; set in center of south-
east concrete bridge headwall; ASHD disk stamped "2383+85 4315.28
1938" (NGS Quad 32 109 3, line 101) *9-1165*
Not Found 799
4314.909
ASHD by NGS 4314.680 (1952 Elev.)

FILE COPY

WILLCOX (66) Arizona 32 109 34
W.A.E. Hult, 1907
W.A. Allen, 1940
B.K. Coker, 1974

Trunk Line Adjusted Elevations Based on National
Geodetic Vertical Datum of 1929

Books: A 6659, B 8852, PV 912

(3) BM "129 H 1907" (NGS Quad 32 109 3, line 101) 4320.182
129 H by NGS 4320.129 (1952 Elev.)

OHIO TRIANGULATION STATION (NGS): Willcox Post Office, 0.1 mi E.
of to I-Hwy. 10 (Business), thence 5.3 mi NE. along I-Hwy. 10
(Business) and I-Hwy. 10; 95 ft NW. of centerline of westbound
traffic lanes, 14 ft SE. of right-of-way fence; set in concrete
post flush with ground; NGS disk stamped "OHIO 1960" (NGS Quad 32
109 3, line 103)

9-1165
4305.034

OHIO by NGS 4304.821 (1962 Elev.)

Willcox Post Office, 0.1 mi E. of to I-Hwy. 10 (Business), thence
5.3 mi NE. along I-Hwy. 10 (Business) and I-Hwy. 10; 98 ft W. of
centerline of westbound traffic lanes, 11 ft SE. of right-of-way
fence; set in concrete post projecting 0.2 ft; standard NGS
reference mark disk stamped "OHIO NO 2 1960" (NGS Quad 32 109 3,
line 103)

9-1165
4305.074

NO 2 by NGS 4304.860 (1962 Elev.)

DRURY TRIANGULATION STATION (NGS): Willcox Post Office, 0.1 mi E.
of to I-Hwy. 10 (Business), thence 4.0 mi NE. along I-Hwy. 10
(Business) to Stewart Rd. overpass; 83 ft NW. of centerline of
median for I-Hwy. 10 (Business); 122 ft WNW. of intersection, 12 ft
SE. of fence; set in concrete post projecting 0.4 ft; standard NGS
triangulation tablet stamped "DRURY 1945" (NGS Quad 32 109 3, line
101) (Also in line 11)

4246.303

DRURY by NGS 4246.173 (1952 Elev.)

Willcox Post Office, 0.1 mi E. of to I-Hwy. 10 (Business), thence
4.0 mi NE. along I-Hwy. 10 (Business) to Stewart Rd. overpass; 112
ft N. of flashing warning light, 95 ft NW. of centerline of I-Hwy.
10 (Business), 5 ft SE. of fence; set in concrete post; standard
NGS reference mark disk stamped "DRURY NO 2 1945" (NGS Quad 32 109
3, line 101)

4245.359

NO 2 by NGS 4245.231 (1952 Elev.)

Willcox Post Office, 0.1 mi E. of to I-Hwy. 10 (Business), thence
3.1 mi NE. along I-Hwy. 10 (Business); about 0.3 mi NE. of Fifth
Wheel Service Station and Cafe; 18 ft SE. of centerline of hwy.;
set in center of southeast concrete bridge headwall; ASHD disk
stamped "2246+00 4201.91 1938" (NGS Quad 32 109 3, line 101)

4201.359

ASHD by NGS 4201.514 (1952 Elev.)

32 109 34
W.A.E. Hult, 1907
W.A. Allen, 1940
B.K. Coker, 1974

WILLCOX (66) Arizona

Trunk Line Adjusted Elevations Based on National
Geodetic Vertical Datum of 1929

Books: A 6659, B 8852, PV 912

(3) Willcox Post Office, 0.1 mi E. of to I-Hwy. 10 (Business), thence
2.9 mi NE. along I-Hwy. 10 (Business); at Fifth Wheel Cafe and
Service Station; 294 ft E. of southeast corner of cafe, 20 ft S.
of centerline of hwy.; set in center of concrete bridge headwall;
AHD tablet stamped "2235+97.9 4196.48 1938" (NGS Quad 32 109 3,
line 101) 4195.852

AHD by NGS 4196.110 (1952 Elev.)

Willcox Post Office, 0.1 mi E. of, thence 2.0 mi NE. along I-Hwy.
10 (Business); 98 ft SE. of centerline of hwy., 83 ft S. of
southeast end of culvert, 2 ft NW. of fence; set on copper-coated
steel rod encased in 6-inch white pipe; standard tablet stamped "1
BKC 1974" 4175.155

Willcox, 1.7 mi NE. along RR. from station; 0.4 mi NE. of milepost
1076 and rd. X-ing.; on northwest side of track; standard iron
post with bronze cap stamped "133 H 1907" (NGS tie)(Not found,
1974) 4173.407 *S.F.W.F. '79*

Willcox Post Office, 0.1 mi E. of, thence 1.0 mi NE. along I-Hwy.
10 (Business); 0.25 mi NE. of intersection of Rex Allen Avenue, 20
ft SE. of centerline of hwy.; 18 ft SW. of milepost 341; set in
concrete bridge headwall, level with centerline of hwy.; ASHD
tablet stamped "2134+0025 4173.60" (NGS Quad 32 109 3, line 101) 4172.999

ASHD by NGS 4173.171 (1952 Elev.)

Willcox, 0.58 mi NE. of along State Hwy. 86; on top of southeast
guardrail of concrete culvert; ASHD tablet stamped "STA 2111+99.7
4171.40" (Destroyed) 4170.933 *DEST. '79*

Willcox, 100 ft SE. of Southern Pacific RR. Station; in front of
site of U.S. Weather Bureau Station; standard iron post with bronze
cap stamped "134 1/2 H1907" (Reported disturbed and new elevation,
1940) 4166.980 *Not Found '79*

Willcox, 100 ft S. of Southern Pacific RR. Station; 55 ft SW. of
BM "134 1/2 H 1907"; 27 ft SE. at same elevation as main eastbound
track; in concrete post; standard tablet stamped "9 WA 1940"
(Destroyed) 4166.994 *DEST. '79*

Willcox Post Office, 0.1 mi E. of, thence 0.6 mi NE. along I-Hwy.
10 (Business); 59 ft NE. of Wood Street, 40 ft E. of centerline of
I-Hwy. 10 (Business); set in center of southeast concrete bridge
headwall; ASHD disk stamped "2111+98 4172.72" 4171.001

ASHD by NGS 4170.933 (1952 Elev.)

FILE COPY

WILCOX (66)

Arizona

32 109 34
W.A.E. Hult, 1907
W.A. Allen, 1940
B.K. Coker, 1976

Trunk Line Adjusted Elevations Based on National
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Books: A 6659, B 8852, PV 912

- (3) Willcox Post Office, 0.1 mi E. of, thence 0.4 mi NE. along I-Hwy.
10 (Business); 92 ft N. of Wee Blue Inn Motel sign, 39 ft SE. of
centerline of hwy.; in center of concrete headwall; ASHD tablet
stamped "2103+75 4171.44" (NGS Quad 32 109 3, line 101)

4169.701

ASHD by NGS 4169.585 (1952 Elev.)

WILLCOX (66) Arizona 32 109 34
W.A. Allen, 1940
B.K. Coker, 1974

Trunk Line Adjusted Elevations Based on National
Geodetic Vertical Datum of 1929

Books: B 8852, PV 912

Latitude 32°15' Longitude 109°45'

- (4) FROM A POINT ABOUT 2 MILES SOUTHWEST OF WILLCOX THENCE WEST ALONG THE
AIRPORT ROAD THENCE SOUTH INTO THE NORTH EDGE OF COCHISE QUADRANGLE (46)
(By W.A. Allen, 1940, B.K. Coker, 1974; Books: B 8852, PV 912)

"POWELL NO 1 1960" (NGS Quad 32 109 3, line 103)[1974 USGS ELEVATION]
(This mark is in Cochise Quad 46) 4171.622

BM "Y 261 1945" (NGS Quad 32 109 3, line 101-Spur line to Cochise
County Airport)(Note: This mark was not leveled on forward run)
Willcox Post Office, 0.1 mi N. of, thence 0.5 mi W. along Maley
Street, thence 0.05 mi S. along Bisbee Ave., thence 0.6 mi W. on
Airport Rd.; 25 ft S. of centerline of driveway at south side of
overpass, 22 ft E. of centerline of gate, 1.5 ft S. of fence; set
in concrete post; standard NGS disk stamped "Y 261 1946" 4171.860

Willcox Post Office, 0.1 mi N. of; thence 0.5 mi W. along Maley
Street, thence 0.05 mi S. along Bisbee Ave., thence 1.2 mi W.
along Airport Rd.; 31 ft N. of centerline of rd., 6.5 ft W. of
fence, 5.8 ft N. of E.-W. fence; in concrete post projecting 0.5
ft above ground; standard tablet stamped "4177 WA 10 1940" (NGS
Quad 32 109 3, line 101, designated 4177) 4176.169

4177 by NGS 4176.117 (1952 Elev.)

Willcox Post Office, 0.1 mi N. of, thence 0.5 mi W. along Maley
Street, thence 0.05 mi S. along Bisbee Ave., thence 1.8 mi W.
along Airport Rd.; 37 ft N. of centerline of rd., 5 ft N. of fence
line, 2.2 ft S. of witness post; in concrete post; NGS bronze disk
stamped "T 324 1952" (NGS Quad 32 109 3, line 101) 4178.586

T 324 by NGS 4178.847 (1952 Elev.)

Willcox Post Office, 0.1 mi N. of, thence 0.5 mi W. along Maley
Street, thence 0.05 mi S. along Bisbee Ave., thence 2.5 mi W. along
Airport Rd.; 37 ft S. of centerline of rd., 27 ft E. of east gatepost
at entrance to airport, 1.5 ft S. of fence, 1.3 ft W. of witness
post; in concrete post projecting 0.2 ft; standard NGS disk stamped
"Z 261 1945" (NGS Quad 32 109 3, line 101) 4181.233

Z 261 by NGS 4181.419 (1952 Elev.)

Willcox, 4.16 mi W. of along Cascabel Rd.; 0.47 mi W. of rd. inter-
section; 5 ft N. of fence; 55 ft N. of center of rd.; in concrete ^{Not Found} 1940 Elev. 4187.179

WILLCOX (66)

Arizona

32 109 34
W.A. Allen, 1940
B.K. Coker, 1974

Trunk Line Adjusted Elevations Based on National
 Geodetic Vertical Datum of 1929

Books: B 8852, PV 912

- (4) Willcox, 4.99 mi W. of along Cascabel Rd.; 175 ft N. of ranch house;
60 ft N. of center of rd.; on rock; chiseled square 1940 Elev. 4192.27

Willcox, 6.07 mi W. of along Cascabel Rd.; 45 ft N. of center of rd.;
in concrete post; standard tablet stamped "12 WA 1940" 1940 Elev. 4263.565 ^{New Desc. '74}

WILLCOX (66) Arizona 32 109 34
R.B. Steele, 1941

Third Order Adjusted Elevations Based on National
Geodetic Vertical Datum of 1929

Book: B 9494

Latitude 32°15' Longitude 109°45'

- (5) FROM A POINT 6 MILES NORTH OF WILLCOX NORTH AND NORTHEAST ALONG ROAD
AND TRAIL VIA PALMER RANCH AND O-BAR-O RANCH INTO MT. GRAHAM QUADRANGLE
(90)(By R.B. Steele, 1941; Book: B 9494)

Standard USGS tablet stamped "1937 H 23 4243" (Described in line
9) 1974 Elev. 4243.309

T12S, R24E, near northeast corner section 36, where telephone line
crosses rd.; at base of telephone pole; on rock; chiseled square 4300.33

T12S, R24E, in northwest 1/4 section 25; 107 ft E. of steele
cattleguard; 2 ft S. of fence line; in concrete post; standard
tablet stamped "1 RS 1941 4357" 4357.032

Reference mark, 107 ft W. of tablet; at northwest corner of steel
cattleguard; rail spike *DEST.* 4355.98

T12S, R24E; 1 mi SE. of Palmer Ranch house; in Y-rd. fork; 26 ft
NW. of rd. NE.; 25 ft E. of rd. N.; in boulder; chiseled square *DEST.* 4383.38

T12S, R24E; 500 ft SE. of 1/4 corner between sections 12 and 13;
in northeast corner of yard of Palmer Ranch house; in concrete post;
standard tablet stamped "2 RS 1941 4416" *DEST. 79*
BA has been moved 4416.418

Reference mark, 500 ft NW. of tablet; top of iron pipe with GLO cap
stamped "1/4 COR S12 S13" 4420.301

Top of iron pipe with GLO cap stamped "T12S R24E R25E SECS 1 6 7
12" 4500.293

T12S, R24E, near north 1/4 corner section 1; 0.9 mi NW. along rd.
from cattleguard; 41 ft NE. of centerline of rd.; in concrete post;
standard tablet stamped "3 RS 1941 4527" 4526.640

Reference mark, 96 ft SE. of tablet; 59 ft NE. of center of rd.; 6
ft W. of 5-prong yucca tree; on rock; chiseled square 4527.26

T11S, R24E, in northeast 1/4 section 36; 68 ft SE. of center of rd.;
300 ft NE. of rd. fork; in west side of base of 4-inch mesquite
tree; copper nail and washer *SFWF* 4520.58

T11S, R24E, in section 25; 1 mi S. along rd. from cattleguard; 22
ft SW. of 3 small mesquite trees; 11 ft W. of center of rd.; in
concrete post; standard tablet stamped "4 RS 1941 4573" 4572.639

Reference mark, 318 ft NE. of tablet; 46 ft SE. of center of rd.;
in base of 6-inch mesquite tree; copper nail and washer *SFWF* 4577.72

WILLCOX (66)

Arizona

32 109 34

R.B. Steele, 1941

Third Order Adjusted Elevations Based on National
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Book: B 9494

(5) T11S, R24E; about 400 ft W. of center of section 24; at north-
west corner of steel cattleguard; in top of post; copper nail and
washer *DEST*
4671.02

Top of iron pipe with GLO cap stamped "T11S R24E R25E COR SECS 13
18 19 24" 4767.625

T11S, R25E; 0.36 mi N. of southwest corner section 18; 19 ft N.
of steel cattleguard; 3 ft E. of FS boundary fence; in concrete
post; standard tablet stamped "5 RS 1941 4781" ~~4780.463~~
4780.463 ✓

Reference mark, 30 ft S. of tablet; on top of east end of south
concrete retaining wall of steel cattleguard; chiseled square 4780.87

O-Bar-O Ranch, 0.5 mi SW. of, at old rd. fork; on northwest edge
of main rd.; on top of concrete base of old gatepost; chiseled
square *S.F.M.F.*
4909.17

O-Bar-O Ranch, at front door of ranch house; on top near center of
bottom concrete step; standard tablet stamped "6 RS 1941 4957" 4956.863

Reference mark, 135 ft NE. of tablet; on north side of rd.; in base
of large cottonwood tree; copper nail and washer 4959.34

O-Bar-O Ranch, 1 mi NE. of along O-Bar-O Jernigan Ranch Trail; 100
ft SW. of 12-inch ash tree in middle of wash; at jct. of big draw
from S.; in base of liveoak tree which has long blaze with three
hacks above southwesternmost of clump of four; copper nail and
washer *S.F.M.F.*
3096.20

WILLCOX (66)

Arizona

32 109 34

R.B. Steele, 1941

Third Order Adjusted Elevations Based on National
Geodetic Vertical Datum of 1929

Book: B 9494

Latitude 32°15' Longitude 109°45'

- (6) FROM LUZENA QUADRANGLE (65) 2 MILES SOUTH OF RASO NORTHWEST ALONG ROAD
TO POINT 0.9 MILE NORTHEAST OF DRURY (By R.B. Steele, 1941; Book: B 9494)

Raso, 2.1 mi SE. of along desert rd.; 1 mi SE. of rd. crossing
Southern Pacific RR. track; 103 ft NE. of cattleguard; 2 ft S. of
fence line; in concrete post; standard tablet stamped "37 RS 1941
4477"

4476.847

Reference mark, 175 ft W. of tablet; 55 ft SW. of center of rd.;
27 ft NW. of fence; in base of mesquite tree; copper nail and
washer

4478.76

Raso, 1.1 mi SW. of along Southern Pacific RR. track; in southeast
angle of rd. X-ing., on top of northeast corner of cattleguard;
copper nail and washer

4352.56

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5/19/76 dld

WILLCOX (66)

Arizona

32 109 34

G.W. Moore, 1942

Third Order Adjusted Elevations Based on National
Geodetic Vertical Datum of 1929

Book: B 9791

Latitude 32°15' Longitude 109° 45'

(7) FROM POINT 10 MILES SOUTH OF BONITA WEST ALONG ROAD INTO WINCHESTER
MTS. QUADRANGLE (67) (By G.W. Moore, 1942; Book: B 9791)

Petite Hooker Ranch, 8.1 mi E. of, 27 ft S. of rd. from gate; 40
ft S. and 6 ft E. of fence corner; at center of E.-W. rd.; iron
pipe with GLO cap stamped "1/4 SECS 34 3 1913"

3/4 NE 179
4296.352

Reference mark, 179 ft E. of iron pipe; 28 ft S. of rd.; 64 ft S.
of fence; iron pipe with GLO cap stamped "T12S R23E SECS 3 2 1913"

3/4 NE 179
4294.644

Petite Hooker Ranch, 7.6 mi E. of; 6 ft S. of rd.; in rd., flush
with ground; iron pipe with GLO cap stamped "T11S R23E SECS 33 34
T12S SECS 4 3 1913"

3/4 NE 179
4314.346

Reference mark, 113 ft NE. of iron pipe; 23 ft N. of rd. at flag;
on buried boulder; chiseled square

4313.78

WILLCOX (66)

Arizona

32 109 34
G.W. Moore, 1942

Third Order Adjusted Elevations Based on National
 Geodetic Vertical Datum of 1929

Book: B 9791

Latitude 32°15' Longitude 109°45'

- (8) FROM WINCHESTER MTS. QUADRANGLE (67) EAST ALONG ROAD TO POINT 12
MILES SOUTH OF BONITA (By G.W. Moore, 1942; Book: B 9791)

Ellis Ranch, 6.6 mi NE. of, at 1/4 corner between sections 3 and
10, T12S, R23E; 175 ft SW. of bent iron pipe with GLO cap stamped
"T12S R23E SEC 3 4 TR 43 S3 TR 47 TR 44 1913", 25 ft S. of rd.; 3
ft NW. of corner fencepost; in concrete post; standard tablet
stamped "24 GWM 1942 4295"

New Desc. 79

4294.778

Reference mark, 30 ft N. of tablet; at north edge of rd.; on south-
east corner of concrete base of Hookers iron gate; chiseled
square

SFNF '79

4293.53

Ellis Ranch, 7.6 mi NE. of; 29 ft N. of iron pipe with GLO 1/4
corner cap stamped "T12S R23E SECS 2 3 TR 41 TR 47 12 TR 45 1913"
in base of fencepost; rail spike

SFNF '79

4283.66

FILE COPY

5/20/76 dld

WILLCOX (66) Arizona 32 109 34
E.E. Harris, 1937
G.W. Moore, 1942
B.K. Coker, 1974

Trunk Line Adjusted Elevations Based on National
Geodetic Vertical Datum of 1929

Books: B 7327, B 9791, PV 912

Latitude 32°15' Longitude 109°45'

- (9) FROM THE VICINITY OF WILLCOX NORTH AND WEST TO BM T12S R23E S35 THENCE
WEST INTO WINCHESTER MTS. QUADRANGLE (67) (By E.E. Harris, 1937, G.W.
Moore, 1942, B.K. Coker, 1974; Books: B 7327, B 9791, PV 912)

BM "K 358 1960" (NGS Quad 32 109 3, line 103) [1974 USGS ELEVATION]
(This mark is in Cochise Quad 46) 4175.531

T13S, R24E, near southeast corner section 24; 20 ft W. of center
of rd.; 25 ft N. of gatepost; 2 ft E. of fence line; in concrete
post; standard tablet stamped "1937 H 21 4184" 4183.895

H 21 adj. elev. 4184.253 (1937 Elev.)

Willcox, (at overpass of Ft. Grant Rd. at I-Hwy. 10), 0.1 mi N. of,
thence 2.2 mi NNE. along Circle I Rd.; 95 ft N. and 44 ft E. of
T-rd. W.; set on copper-coated rod encased in 6-inch white pipe;
standard tablet stamped "72 BKC 1974 4189" 4188.828

T13S, R24E; near northeast corner section 13; 84 ft S. and 18 ft
W. of X-rd.; 55 ft S. and 1.5 ft E. of corner fencepost; in
concrete post; standard tablet stamped "1937 H 22 4194" 4193.825

H 22 adj. elev. 4194.138 (1937 Elev.)

Willcox, (at overpass of Ft. Grant Rd. at I-Hwy. 10), 0.1 mi N. of,
along Ft. Grant Rd., thence 4.2 mi NNE. along Circle I Rd.; 25 ft
S. of and 51 ft E. of T-rd. E.; 4 ft E. of power pole, 3 ft W. of
fence corner; set on copper-coated rod; standard tablet stamped
"73 BKC 1974 4209" 4208.880

T12S, R24E, near southeast corner section 36; 26 ft N. of center-
line of rd.; 52 ft W. of centerline of cattleguard; at angle in
hwy. from N. to W.; 1 ft S. of fence line; in concrete post;
standard tablet stamped "1937 H 23 4243" (Also in line 5) 4243.309

H 23 adj. elev. 4243.445 (1937 Elev.)

SPUR LINE TO BM "4330"

Willcox, (at overpass of Ft. Grant Rd. at I-Hwy. 10), 0.1 mi N. of,
thence 5.8 mi NNE. along Circle I Rd.; 0.1 mi E. of rd.; set in
solid rock outcrop; USGS National Earthquake Research tablet
stamped "4330 1974" 4330.207

RETURN TO MAIN LINE

32°20.873'
-109°50.667'

Also see "RED" (CY1202) nearby

WILLCOX (66)

Arizona

32 109 34
E.E. Harris, 1937
G.W. Moore, 1942
B.K. Coker, 1974

Trunk Line Adjusted Elevations Based on National
Geodetic Vertical Datum of 1929

Books: B 7327, B 9791, PV 912

(9) Willcox, (at overpass of Ft. Grant Rd. at I-Hwy. 10), 0.1 mi N. of, along Ft. Grant Rd., thence 5.2 mi NNE. along Circle I Rd., thence 0.6 mi W. along gravel rd.; 35 ft W. of driveway and 33 ft S. of centerline of rd., 1 ft N. of fence; set on copper-coated rod encased in 6-inch white pipe; standard tablet stamped "74 BKC 1974 4230" *New Desc. '79* 4230.278

UE: 0.93 mi W. of BM "74 BKC 1974"; at water well S. of rd.; at northeast side of well, level with ground, on casing; metal tab *SPMF* 4228.61

T12S, R24E; southeast corner section 34; 43 ft N. and 110 ft W. of jct. of T-rd. S.; 1 ft S. of fence line; 48 ft W. of private rd. NW. through gate; in concrete post; standard tablet stamped "1937 H 24 4225" (Destroyed) *DEST. '79* 4224.956

Willcox, (at overpass of Ft. Grant Rd. at I-Hwy. 10), 0.1 mi NW., thence 5.2 mi N. along Circle I Rd., thence 2.0 mi W. along gravel rd. to X-rd.; Ft. Grant Overpass at I-Hwy. 10, 6.8 mi NW. along Ft. Grant Rd. at poine where rd. turns W.; 33 ft N. of and 45 ft W. of X-rd., 8 ft W. of power pole; set on copper-coated rod encased in 6-inch white pipe; standard tablet stamped "75 BKC 1974 4223" 4223.733

Willcox, (at overpass of Ft. Grant Rd. at I-Hwy. 10), 7.8 mi NNW. of, along Ft. Grant Rd.; at southeast corner of enclosure fence for substation; 37 ft N. of and 97 ft E. of X-rd., 2 ft E. of fence corner; set on copper-coated rod encased in 6-inch white pipe; standard tablet stamped "76 BKC 1974 4221" *Not Found '79* 4220.964

Willcox, (at overpass of Ft. Grant Rd. at I-Hwy. 10), 8.8 mi NNW. of, along Ft. Grant Rd.; 0.8 mi E. of Farmers' Market; at X-rd.; 40 ft N. of and 31 ft W. of X-rd., 2 ft E. of power pole; in concrete post; standard tablet stamped "H 25 1937 4227 RESET 1974" *Not Found '79* 4223.410

Ellis Ranch, 6.2 mi E. of, near northeast corner section 6, T13S, R24E; 15 ft S. and 41 ft W. of X-rd.; 6 ft N. and 11 ft W. of fence corner; in concrete post; standard tablet stamped "14 GWM 1942 4231" 4225.636

14 GWM adj. elev. 4231.088 (1937 Elev.)

Willcox, (at overpass of Ft. Grant Rd. at I-Hwy. 10), 9.8 mi NNW. of, along Ft. Grant Rd., thence 1.0 mi W. along dirt rd.; 19 ft N. of and 54 ft W. of T-rd. N., 1 ft S. of fence; set on copper-coated rod encased in 6-inch white pipe; standard tablet stamped "77 BKC 1974 4235" 4235.355

WILLCOX (66)

Arizona

32 109 34
E.E. Harris, 1937
G.W. Moore, 1942
B.K. Coker, 1974

Trunk Line Adjusted Elevations Based on National
Geodetic Vertical Datum of 1929

Books: B 7327, B 9791, PV 912

- (9) Ellis Ranch, 5.2 mi E. of; 20 ft N. of rd.; 9 ft SE. of fence
corner at fence line N.; in concrete post; standard tablet stamped
"15 GWM 1942 4238" (Destroyed) *DEST. '77* 4237.510
- UE: Surface at cattleguard 4251.12
- Ellis Ranch, 4.2 mi E. of; 9 ft S. of rd.; 35 ft W. of fence N.;
iron pipe with GLO cap stamped "T12S R23E SECS 35 36 T13S SECS
1 2 1913" *Destroyed '79* 4279.555
- Sec Cor adj. elev. 4279.599 (1937 Elev.)
- Ellis Ranch, 3.7 mi E. of; 42 ft SW. of south 1/4 corner section
35; 38 ft S. of rd.; in concrete post; standard tablet stamped "16
GWM 1942 4315" *Destroyed '79* 4315.247
- 16 GWM adj. elev. 4315.099 (1937 Elev.)
- Reference mark, 42 ft NE. of tablet; 8 ft S. of rd.; iron pipe with *SFNP*
GLO cap stamped "1/4 SEC 35 2 1913" 1942 Elev. 4315.027
- Ellis Ranch, 3.2 mi E. of; 12 ft S. of rd.; at east edge of wash;
iron pipe with GLO cap stamped "T12S R23E SECS 34 35 T13S SEC 2
3 1913" (Note: Post leaning, elevation is highest point, not
center of cap.) 4350.593
- Sec Cor adj. elev. 4350.370 (1937 Elev.)
- Ellis Ranch, 2.7 mi E. of; 14 ft S. of rd.; 1 ft W. of telephone
pole; iron pipe with GLO cap stamped "1/4 SEC 34 3 1913" *Not Found '74*
1942 Elev. 4391.295
- Ellis Ranch, 2.2 mi E. of; at corner sections 3,4,33 and 34; 20 ft
N. of rd.; 33 ft E. of fence line N.; in concrete post; standard
tablet stamped "17 GWM 1942 4454" 1942 Elev. 4453.705
- Reference mark, 38 ft S. of tablet; 19 ft S. of rd.; 4 ft E. of
fence line S.; 2 ft W. of pole; iron pipe with GLO cap stamped
"T12S R23E SECS 33 34 T13S SECS 3 4 1913" 1942 Elev. 4454.323

WILLCOX (66)

Arizona

32 109 34

M.D. Cummins, 1972

Third Order Adjusted Elevations Based on National
Geodetic Vertical Datum of 1929

Book: PV 840

Latitude 32°15' Longitude 109°45'

- (10) FROM MOUNT GRAHAM QUADRANGLE (90) SOUTH ALONG BONITA-WILLCOX HIGHWAY
THENCE WEST INTO WINCHESTER MTS QUADRANGLE (67) (By M.D. Cummins, 1972;
Book: PV 840)

Bonita, 7.8 mi S. of, along Bonita-Willcox Hwy.; 30 ft E. of center-
line of rd., 25 ft N. of farm rd. E., 3 ft NW. of power pole, by
witness sign; set in 8-inch cylindrical concrete post projecting
0.5 ft; ASHD brass cap stamped "P & M BM 850 P 1969" 4371.909

Bonita, 8.8 mi S. of, along Bonita-Willcox Hwy.; 180 ft NW. of
intersection, 36 ft from south^{EAST} corner of Grain Co-Op of AZ
Bonita Plant; set flush in southeast corner of truck scale;
standard tablet stamped "1 MDC 1972" 4347.023

Bonita, 8.8 mi S. of, along Bonita-Willcox Hwy. to intersection,
thence 1.0 mi W. to cattleguard just after rd. bend to NW.; in
northeast corner of cattleguard; set flush in cattleguard;
standard tablet stamped "2 MDC 1972" 4344.159

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5/24/76 dld

WILLCOX (66)

Arizona

32 109 34

D.O. Richardson, 1974

Trunk Line Adjusted Elevations Based on National
 Geodetic Vertical Datum of 1929

Book: PV 912

Latitude 32°15' Longitude 109°45'

- (11) FROM A POINT ABOUT 3 MILES SOUTHWEST OF RASO SOUTHWEST ALONG I-HIGHWAY
10 INTO THE NORTH EDGE OF COCHISE QUADRANGLE (46) (BY D.O. Richardson,
1974; Book: PV 912)

DRURY TRIANGULATION STATION (NGS): Raso, 3 mi SW. of; standard tablet stamped "DRURY 1945" (USGS Elevation) (Also in line 3)	4246.303
WHEEL reference mark No. 1 (NGS Quad 32 109 3, line 103)	4194.953
RM 1 by NGS 4194.972 (1962 Elev.)	
WHEEL TRIANGULATION STATION (NGS): (NGS Quad 32 109 3, line 103)	4195.710
WHEEL by NGS 4195.723 (1962 Elev.)	
WHEEL reference mark No. 2 (NGS Quad 32 109 3, line 103)	4195.254
RM 2 by NGS 4195.264 (1962 Elev.)	
BM "L 358 1960" (NGS Quad 32 109 3, line 103)	4178.489
L 358 by NGS 4178.640 (1962 Elev.)	

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5/24/76 dld

32109 34

REPORT ON PERMANENT SURVEY MARK

AREA OFFICE

#66

STATE Arizona COUNTY Cochise QUADRANGLE Willcox SW
QUOTE PRIMARY REFERENCE 6.1 mi. W from the Int. of Business 10 and State Hwy. 186
from Willcox (Direction and distance) LINE 4

DESIGNATION { LISTED 12 WA 1940
STAMPED 12 WA 1940 4263 TYPE OF MARK: BM XX TT _____ TRIANG. _____

Lat. _____° _____' _____"	CONDITION	USGS	ESTABLISHED BY
Long. _____° _____' _____"	Disturbed <input type="checkbox"/>	USC&GS	USBR <input type="checkbox"/>
Elev. <u>4263.565</u> feet	Destroyed <input type="checkbox"/>	USNPS <input type="checkbox"/>	State GS <input type="checkbox"/>
	Not Found <input type="checkbox"/>	USGLO } <input type="checkbox"/>	USNFS <input type="checkbox"/>
		USBLM } <input type="checkbox"/>	(Other) <input type="checkbox"/>

REMARKS OR REVISED DESCRIPTION:

6.1 mi. W. along Maley ST. and Airport Road from the Int. of Business Route 10 and State Hwy. 186 at Willcox, 2.9 mi. W along graded road from the entrance to Cochise Co. Airport, 0.6 mi. E of a sharp ~~XXXXX~~ bend in the road, 740 ft. E of a N/S fence, 52 ft. N of the E of the road a standard tablet stamped "12 WA 1940 4263" and set in the top of a concrete post projecting about 0.5 ft.

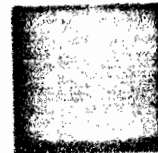
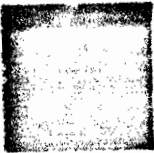
SUBMITTED BY Glenn G. Kelly
TITLE Super. Cartog.
AGENCY USGS

DATE 02-15-79

Marks found in good condition need not be reported.

FILL IN ALL AVAILABLE INFORMATION

Prepare in triplicate and send to nearest address shown on reverse side.



REPORT ON PERMANENT SURVEY MARK

7266
AREA OFFICE

STATE ARIZONA COUNTY COCHISE QUADRANGLE WILLCOX (66) NW
QUOTE PRIMARY REFERENCE Ellis Ranch, 6.6 mi. NE of
(Direction and distance)

LINE 8

DESIGNATION { LISTED _____
STAMPED 24 GWM 1942 4295 TYPE OF MARK: BM XXX TT _____ TRIANG. _____

Lat. _____ ° _____ ' _____ " CONDITION
Disturbed USGS USBR
Long. _____ ° _____ ' _____ " Destroyed USC&GS State GS
Elev. 4294.778 feet Not Found USNPS USNFS
GOOD XXX USGLO (Other)
USBLM

REMARKS OR REVISED DESCRIPTION: Ellis Ranch, 6.6 mi. NE. of at 1/4 corner between
sec. 3 & 10, T12S, R23E. 88 ft. North or road, 67 ft. N. along fence from
fence corner; inconcrete post; standard tablet stamped "24 GWM 1942 4295"

SUBMITTED BY Steven D. Crosby
TITLE Carto. Teh.
AGENCY USGS TOPO. DIV.

DATE 02-05-79

Marks found in good condition need not be reported.

FILL IN ALL AVAILABLE INFORMATION

Please prepare in triplicate and send to nearest (or indicated) address shown on reverse side.

REPORT ON PERMANENT SURVEY MARK

7266
AREA OFFICE

STATE ARIZONA COUNTY COCHISE QUADRANGLE WILLCOX (66) SE
QUOTE PRIMARY REFERENCE Willcox, 0.1 mi. N. of the jct 5.2 mi. NNE of
(Direction and distance)

LINE 9

DESIGNATION { LISTED _____
STAMPED 74 BKC 1974 4230 TYPE OF MARK: BM XXX TT _____ TRIANG. _____

Lat. _____ ° _____ ' _____ " CONDITION
Disturbed USGS USBR
Long. _____ ° _____ ' _____ " Destroyed USC&GS State GS
Elev. 4230.278 feet Not Found USNPS USNFS
GOOD USGLO (Other)
USBLM

REMARKS OR REVISED DESCRIPTION: Willcox, (at overpass of Ft. Grant Rd. at I-Hwy. 10),
0.1 mi. N. of, along Ft. Grant Rd. thence 5.2 mi. N.N.E. along Circle I Rd.
thence 0.93 mi. W. along gravel rd.; 35 ft. West of driveway and 33 ft. S.
of centerline of main road., 1 ft. N. of R.O.W. fence; set on a copper-
coated rod encased in a 6-inch white pipe; standard tablet stamped
"74 BKC 1974 4230" located in T. 13 S. R. 25 E. near NW cor sec. 1.

SUBMITTED BY Steven D. Crosby
TITLE Carto. Tech.
AGENCY USGS TOPO. DIV.

DATE 02/05/79

Marks found in good condition need not be reported.

FILL IN ALL AVAILABLE INFORMATION

Please prepare in triplicate and send to nearest (or indicated) address shown on reverse side.

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

DESCRIPTION
HORIZONTAL CONTROL STATION

DIAGRAM Silver City
USGS QUAD NO. 66

1st Order
Triangulation Electronic - Distance Traverse Intersected Object
Station RED USGS County Cochise State Arizona
Established by USGS Year 1940 Project D 3884-85

Check one:
 New Station: Write full description below
 Recovery of Old Station: Recovered by USC&GS Year 1945-46 Project _____

Object	Bearing	Distance		AZIMUTH
		Feet	Meters	
COCHISE				23°26'27.8"
RM 1		22.75		270 47 03
RM 2		32.85		18 17 13

Described in U.S. Coast and Geodetic Survey description list 32 109 3-1046. All marks in good condition.

Note: USC&GS distances to reference mark 1 and reference mark 2 differ from USGS distances. USC&GS measurements made in 1945 agree with their 1946 measurements.

USC&GS Adjusted Coordinates

ARIZONA EAST ZONE	ELEV
X= 602328.53	
Y= 492719.38	
MAPPING ANGLE=+0 10 38	QUAD 32 109 34
RED USGS	LAT 32 21 15.0410 LONG 109 50 7.0320

FILE COPY

SEP 26 1974

Arizona (66)

Graham & Cochise Counties

SULPHUR GLO
SULPHUR

1927 N.A.D.

L. D. Hankins, 1940

Books: D 3884-85, D 3887-91

See 32 10 23-10 41

Located in Sulphur Springs Valley, 12.0 mi. N. by 9.0 mi. W. of Willcox, Arizona; about 150 ~~mi.~~ ^{ft.} W. of G. L. Monzingo's ranch house on the corner between Sec. 34,35,3,2 T. 11 S., R. 25 E.

To reach from Willcox follow the Sulphur Springs Valley rd. N. 6.4 mi., turn W., go 5.0 mi., turn N., go 4.0 mi., turn W., go 2.0 mi., turn N., go 2.0 mi., turn W., go 1.0 mi. to Monzingo Ranch (a stone house at corner of rd.) and station.

Station mark: General Land Office brass township and section line marker stamped S 34,35,3,2 T. 11,12 S., R. 23 E.

Reference mark No. 1: Standard reference tablet, stamped "SULPHUR NO 1, 1940", set in stovepipe filled with concrete set on fence line, 17.43 ft. from station, in azimuth 37°50'.

Reference mark No. 2: Standard reference tablet, stamped "SULPHUR NO 2, 1940", set in stovepipe filled with concrete set on fence line, 25.35 ft. from station, in azimuth 303°33'.

Signal: 13-1/2 ft. quadripod (8 ft. square at bottom, 4 ft. square at top with black and white covering) centered over station mark.

Latitude: 32°25'38.241"

Longitude: 109°58'40.426"

12/14/60 hd *ce*

FILE COPY