

NOTE NO. 1

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

TUBAC QUADRANGLE ARIZONA 20 N3130-W11100/15

THIRD-ORDER LEVELING Sea Level Datum of 1929

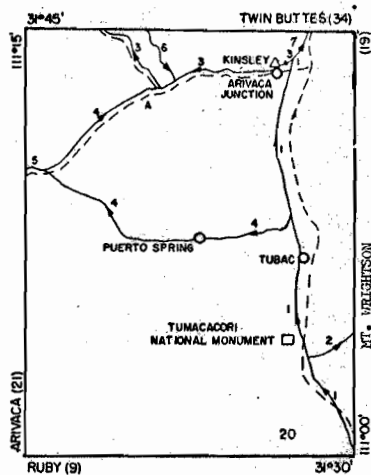
Pima and Santa Cruz Counties

Edition of 5/9/67

Only the standard tablets are listed for lines run more than 25 years before the edition date.

USGS _____ C&GS - - - - -

C&GS LIST: 31 111 1



Index to Permanent Marks

Table with columns 'Mark' and 'Line No.' listing various survey points like A 117, B 117, C 117, KINSLEY, K 53, LPM 9, SEA 1603, T198 R12E SEC 33-34, X 115, Y 115, and NOGLS.

(1) FROM MT. WRIGHTSON QUADRANGLE (19) NORTH ALONG OLD TUCSON-NOGALES ROAD FOLLOWING SANTA CRUZ RIVER VALLEY INTO TWIN BUTTES QUADRANGLE (34) (by M.S. Bright, 1903; Book A 5124)

Calabasas, 5.5 mi. N. of; on W. side of rd.; 3 ft. N. of gate at entrance to Ohms Ranch; standard iron post with bronze cap stamped "3321 NOGLS" (Not found, 1957)

Calabasas, 8.5 mi. N. of; 1.1 mi. SE. of Tumaacori National Monument; 150 ft. W. of dirt rd.; 30 ft. W. of concrete lined irrigation ditch; standard iron post with bronze cap stamped "3279 NOGLS"

Tubac, 1.0 mi. S. of; 0.1 mi. E. of U.S. Highway 89; 180 ft. E. of old hwy.; 75 ft. W. of dirt rd. intersection; at SE. corner of ruins of old adobe house; standard iron post with bronze cap stamped "3222 NOGLS"

Tubac, 2.2 mi. N. of; 0.5 mi. E. of U.S. Highway 89; 0.2 mi. S. of P-M Ranch; at W. edge of clearing; 700 ft. SW. of Santa Cruz River; 20 ft. E. of small drain; standard iron post with bronze cap stamped "3140 NOGLS"

Tubac, 5.5 mi. N. of; on slight ridge; 10 ft. E. of rd.; standard iron post with bronze cap stamped "3096 NOGLS" (Not found, 1957)

Arivaca Junction, 0.5 mi. NE. of; 0.2 mi. SE. of U.S. Highway 89; 100 ft. W. of dirt rd.; 75 ft. E. of base of ridge; 1 ft. N. of fence; standard iron post with bronze cap stamped "3038 NOGLS"

3333.392

New Desc. '79

3291.534

New Desc. '79

3234.636

New Desc. '76

3152.319

3108.458

Not Found '76

3050.124

(2) FROM POINT 1.1 MILES SOUTHEAST OF TUMAACORI NATIONAL MONUMENT NORTHEAST ALONG JOSEPHINE CANYON INTO MT. WRIGHTSON QUADRANGLE (19) (by M.S. Bright, 1903; Book A 5124)

No permanent bench marks fall on this quadrangle.

(3) FROM POINT 0.6 MILE NORTHEAST OF ARIVACA JUNCTION SOUTHWEST TO ARIVACA JUNCTION THENCE WEST ALONG ARIVACA ROAD TO JUNCTION OF BATAMOTE ROAD (FORMERLY POZO NUEVO ROAD) THENCE NORTHWEST ALONG BATAMOTE ROAD INTO TWIN BUTTES QUADRANGLE (34) (by E. L. Mang, U. S. Corps of Engineers, 1923; Book B7991 and H. J. Wenderoth, 1940; Book B8687)

Arivaca Junction, 0.5 mi. NE. of; standard iron post with bronze cap "3038 NOGLS" (Described in Line 1) 3050.124

KINSLEY TRIANGULATION STATION (USC&GS); 1,450 ft. N. of Arivaca Junction along U.S. Highway 89; on top of ridge; 45 ft. W. of center of hwy.; in concrete post; standard USC&GS triangulation station disk stamped "KINSLEY 1935" (Destroyed, 1957) (Latitude: 31°43'51.973" Longitude: 111°03'30.302") 3091.924

Reference mark No. 1, 40 ft. N. of station; 45 ft. W. of center of hwy.; in concrete post; standard USC&GS reference mark disk stamped "KINSLEY NO 1 1935" 3091.824

Reference mark No. 2, 85 ft. E. of station; 40 ft. E. of center of hwy.; in concrete post; standard USC&GS reference mark disk stamped "KINSLEY NO 2 1935" 3091.433

Arivaca Junction, about 1,000 ft. W. of; in concrete post; standard tablet stamped "K 53 1934" (Destroyed, 1957) 3092.335

"A 117 1935 RESET" (USC&GS) 3059.521

Arivaca Junction, 1.1 mi. W. of along Arivaca Road; E. of fence; at a cattle guard; 30 ft. S. of center of rd.; iron post with GLO cap stamped "T198 R12E 35, 36, 1917" (Recovered by USC&GS, 1951) 3143.996

"B 117 1935" (USC&GS) 3177.359

Arivaca Junction, 3.0 mi. W. of along Arivaca Road; 600 ft. S. of rd.; 200 ft. S. of fence; 75 ft. S. of ridge; in river bottom; iron post with GLO cap stamped "T198 R12E SEC 33-34" Not Found '76 3178.33

Arivaca Junction, 3.5 mi. W. of along Arivaca Road; 1,500 ft. N. of S. Soporí Ranch house; 275 ft. S. of N. Soporí Ranch house; 30 ft. N. of Soporí Creek; 5 ft. N. of rd.; in base of red cliff; USCE bronze tablet (Not found, 1957) 3197.963

"C 117 1935" (USC&GS) (Destroyed) 3211.550

Arivaca Junction, 4.3 mi. W. of; 550 ft. W. of deserted adobe shack; 25 ft. N. of rd.; iron pipe with GLO cap stamped "T198 R12E 32, 5, 4, T20S R12E CC" (May be disturbed) 3222.04

Arivaca Junction, 4.3 mi. W. of; 800 ft. W. of deserted adobe shack; 100 ft. W. of creek; 40 ft. W. of bend in rd.; iron post with GLO cap stamped "T198 R12E SEC 32-33" Not Found '76 3223.04

"Y 115 1935" (USC&GS) (Ties Line 6) 3307.633

Arivaca Junction, 5.5 mi. W. of along Arivaca Road; 107 ft. N. of BM "Y 115 1935"; 80 ft. N. of intersection of Batamote Road; in small boulder; USCE bronze tablet (Recovered by USC&GS, 1951) 3307.001

"X 115 1935" (USC&GS) 3336.928

Arivaca Junction, 5.5 mi. W. along Arivaca Road thence 2.2 mi. NW. from along Batamote Road; 0.3 mi. SE. of Jct. of track rd. E.; 144 ft. NE. of center of rd.; 9 ft. NE. of center of abandoned rd.; 1 ft. SW. of cairn; standard tablet stamped "K 55 1934" (Recovered by USC&GS, 1951) 3484.627

LIFE COBY

- (4) FROM POINT ON OLD TUCSON-NOGALES ROAD 2.2 MILES NORTH OF TUBAC SOUTHWEST AND WEST VIA PUERTO CANYON OVER SUMMIT TO SARDINA CANYON THENCE NORTHWEST TO ARIVACA ROAD THENCE NORTHEAST ALONG ARIVACA ROAD TO JUNCTION OF BATAMOTE ROAD (By W. J. Leonard, U.S. Corps of Engineers, 1923; Book B7991)
- Tubac, 2.2 mi. N. of; standard iron post with bronze cap stamped "3140 NOGLS" (Described in Line 1) 3152.319
- Tubac, 1.5 mi. N. thence 2.5 mi. W. from; 0.5 mi. N. of large rocky bluff; 0.2 mi. WSW. of rd. at a curve in rd. from W. to N.; 200 ft. N. of main drain; in large rock 18 inches higher than ground; USCE bronze tablet 3395.278
- Tubac, 1.5 mi. N. thence 5.9 mi. W. from; 1.6 mi. SW. of adobe house at Puerto Springs; 1.0 mi. W. of creek; at summit of saddle; in rock 2 ft. higher than ground; USCE bronze tablet 4109.517
- Puerto Springs, 4.6 mi. NW. of adobe house; 4.0 mi. NW. of summit of saddle; 200 ft. N. of hill; 125 ft. N. of wire fence; 40 ft. S. of creek; 4 ft. E. of stump; in large rock; USCE bronze tablet 3560.782
- Arivaca Junction, 10.3 mi. SW. of along Arivaca Road; 100 ft. W. of cattle guard; in rock; USCE bronze tablet (Reported Destroyed, 1940) 3430.840
- Arivaca Junction, 5.5 mi. W. of along Arivaca Road; USCE bronze tablet (Described in Line 3 and 6) 3307.001

- (5) FROM POINT ON ARIVACA ROAD 12.9 MILES SOUTHWEST OF ARIVACA JUNCTION WEST INTO ARIVACA QUADRANGLE (21) (By W. J. Leonard, U.S. Corps of Engineers, 1923; Book B7991)

No permanent bench marks fall on this quadrangle.

- (6) FROM TWIN BUTTES QUADRANGLE (34) SOUTHEAST ALONG ROAD ON EAST SIDE OF PROCTOR WASH TO JUNCTION OF ARIVACA ROAD THENCE WEST ALONG ARIVACA ROAD TO JUNCTION OF BATAMOTE ROAD (By L.P. Marden, 1939; Book B8029)

NOTE: This line was run by Third Order methods but closure was 0.447 ft. high in a distance of 20.25 mi. This closure error has been prorated in the line.

- Twin Buttes, 1.5 mi. S. thence 16.7 mi. SW. from; 1.0 mi. NW. of jct. with Arivaca Road; on top of bank above drain; 30 ft. W. of rd.; in concrete post; standard tablet stamped "LPM 9 1939" 3336.462
- Reference mark, 110 ft. SE. of tablet; on little rocky point on bank of drain; steel rod 3331.63
- "Y 115 1935" (USC&GS) (Ties Line 3) 3307.693
- Arivaca Junction, 5.5 mi. W. of along Arivaca Road; USCE bronze tablet (Described in Line 3 and 4) 3307.001

- (7) FROM KINSLEY RANCH NORTHEAST ALONG ROADS TO POINT 2.2 MILES SOUTH OF CANOA (by G.W. Moore, 1936; Book B 6630)

- Kinsley Ranch Store, 1.8 mi. N. of; 1 mi. N. of old junction stage station; 45 ft. NE. of T-rd. E. to Amado Ranch; at cattle guard, on U.S. Highway 89, center of E. concrete headwall; AHD tablet stamped "STA 1603 + 75.0" 3011.00 1931" 3026.062
- USC&GS standard disk stamped "Y 75 1934" 3008.281

31 111 12

BENCH MARK DESCRIPTIONS, FIELD SUMMARY

Page	Quots.	Stret	By	Date	Altitude by
Bk—Page	Miles	Adj.			Field Book
			Arizona		M.D. Cummins, 1976
			Field Elevations		
			Book: PV 982		

BENCH MARK DESCRIPTIONS, FIELD SUMMARY

31 111 12

Page	Quots.	Stret	By	Date	Altitude by
Bk—Page	Miles	Adj.			Field Book
			Arizona		M.D. Cummins, 1976
			Field Elevations		
			Book: PV 982		

TUBAC (20) Arizona M.D. Cummins, 1976

Third Order Field Elevations

Book: PV 982

Latitude 31°30' Longitude 111°00'

(8) FROM THE SOUTH EDGE OF TWIN BUTTES QUADRANGLE (34) SOUTHERLY ALONG A ROAD TO THE JUNCTION OF BALAHOIE RANCH ROAD AND ARIVACA ROAD

j/9 19.72 Arivaca Junction, 4.65 mi SW. of, along Arivaca Rd. from jct. of Arivaca Rd. and Hwy. 89, thence 2.2 mi NW, along track rd.; about 300 ft S. of top of rise where dim track rd. takes off SE., at base of rise, opposite point where rd. "y's" and gives choice of two track rds. to top of rise; 62 ft SW. of centerline of dim track rd. SE., 54 ft E. of centerline of rd. from center of "y", 5 ft SE. of cairn; set on 5/8-inch copper-coated rod encased in 6-inch drainpipe; standard tablet stamped "68 MDC 1976 3417" 3417.218

20.77 BM "LPM 9 1939" (USGS) New Description by MDC: Arivaca Junction, 4.65 mi SW. of, along Arivaca Rd. from jct. of Arivaca Rd. and Hwy. 89, thence 1.15 mi NW, along track rd.; 264 ft NW. of point where rd. leaves tree-covered wash area and goes up onto southeast end of long mahogany-covered flat, 132 ft W. of centerline of rd., 35 ft E. of east bank of wash, 6 ft S. of cairn; set in concrete post that projects 0.5 ft; standard tablet stamped "LPM 9 1939" (Previously described in USGS line 6) 3336.677

LPM 9 prev. elev. 3336.462
 LPM 9 this run 3336.677
 Difference = +0.215

21.92 Arivaca Junction, 4.65 mi SW. of, along Arivaca Rd. from jct. of Arivaca Rd. and Hwy. 89; at Marley Cattle Co., at T-rd. S. to dwellings on south side of rd.; 44 ft S. of centerline of Arivaca Rd., 26 ft E. of centerline of T-rd. S., 3 ft W. of telephone pole with guy wire W., 1 ft N. of fence line, 2 ft higher than rd. bed; set on 5/8-inch copper-coated rod encased in 6-inch drainpipe; standard tablet stamped "69 MDC 1976 3247" 3247.407

Note by MDC: Line goes NW. and NE. along track rd. that leaves Arivaca Rd. about 50 yards NW. of BM "69 MDC 1976". The rd. crosses a cattleguard that is located at the southwest corner of a sheetmetal barn on the north side of the rd. at the Marley Cattle Co.

FILE COPY

A220

U.S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
FORM 9-1165
(Rev. 12-74)

REPORT ON PERMANENT SURVEY MARK

AREA OFFICE
USGS Line 1
Tubac NE (20)

STATE Arizona COUNTY Santa Cruz QUADRANGLE Tubac NE (20)
QUOTE PRIMARY REFERENCE Tubac, 2.2 mi N. of
(Direction and distance)

DESIGNATION { LISTED 3140 NOGLS
STAMPED 3140 NOGLS TYPE OF MARK: BM X TT _____ TRIANG. _____

Lat. _____° _____' _____"	CONDITION <u>Good</u>	ESTABLISHED BY
Long. _____° _____' _____"	Disturbed <input type="checkbox"/>	USGS <input checked="" type="checkbox"/> USBR <input type="checkbox"/>
Elev. <u>3152.319</u> feet	Destroyed <input type="checkbox"/>	USC&GS <input type="checkbox"/> State GS <input type="checkbox"/>
	Not Found <input type="checkbox"/>	USNPS <input type="checkbox"/> USNFS <input type="checkbox"/>
		USGLO <input type="checkbox"/> (Other) <input type="checkbox"/>
		USBLM <input type="checkbox"/>

Please prepare in triplicate.

REMARKS OR REVISED DESCRIPTION:

Tubac 2.2 mi N. of; 0.5 mi E. of Interstate 19; 0.2 Mi. S. of P-M Ranch; 700 ft SW. of Santa Cruz River; 20 ft E. of small drain; 50 ft NW of a road. 57 ft SSW. of SW. corner of a house, at west edge of yard...A standard iron post with a bronze cap stamped "3140 NOGLS".

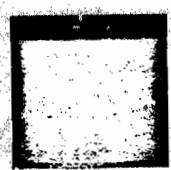
SUBMITTED BY W.A. Olson, Jr.
TITLE Carto Tech
AGENCY USGS

DATE 02/09/76

Marks found in good condition need not be reported.

FILL IN ALL AVAILABLE INFORMATION

GPO 16-54252-6



FILE COPY

REPORT ON PERMANENT SURVEY MARK
Line 1

AREA OFFICE

STATE Arizona COUNTY Santa Cruz QUADRANGLE Tubac SE (20)
QUOTE PRIMARY REFERENCE 2.0 miles north of Tumacacari Post Office
(Direction and distance)

DESIGNATION { LISTED 3222 NOGLS
STAMPED 3222 NOGLS TYPE OF MARK: BM X TT _____ TRIANG. _____

Lat. _____ ° _____ ' _____ " CONDITION Disturbed
Long. _____ ° _____ ' _____ " Destroyed ESTABLISHED BY USGS USBR
Elev. 3234.636 feet Not Found USC&GS State GS
USNPS USNFS
USGLO (Other)
USBLM

*REMARKS OR REVISED DESCRIPTION:

From Post Office at Tumacacari north 2.0 miles to wide area east of old highway 89, Bench Mark is 590 feet ESE of old highway 89, 180 feet east of dim road, at southeast corner of old ruins. a standard tablet on iron post stamped 3222NOGLS.

SUBMITTED BY Ralph B. Findlay
TITLE Cartographic Tech.
AGENCY U.S. Geological Survey

DATE 11/29/79

Marks found in good condition need not be reported.

FILL IN ALL AVAILABLE INFORMATION

16-54252-4

(OVER)

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

REPORT ON PERMANENT SURVEY MARK
Line 1

AREA OFFICE

STATE Arizona COUNTY Santa Cruz QUADRANGLE Tubac SE (20)
QUOTE PRIMARY REFERENCE 1.5 miles south east of Tumacacori Postoffice
(Direction and distance)

DESIGNATION { LISTED 3279 NOGLS
STAMPED 3279 NOGLS TYPE OF MARK: BM X TT _____ TRIANG. _____

Lat. _____ ° _____ ' _____ " CONDITION Disturbed
Long. _____ ° _____ ' _____ " Destroyed ESTABLISHED BY USGS USBR
Elev. 3291.534 feet Not Found USC&GS State GS
USNPS USNFS
USGLO (Other)
USBLM

*REMARKS OR REVISED DESCRIPTION:

Post Office in Tumacacori south for 0.55 miles, thence left east for 0.65 miles to road intersection, thence right 0.3 miles, Bench Mark is 173 feet due west of road, 30 feet west of concrete irrigation ditch. Standard Tablet on Iron post stamped 3279 NOGLS

SUBMITTED BY Ralph B. Findlay
TITLE Cartographic Tech.
AGENCY U.S. Geological Survey

DATE 11/29/79

Marks found in good condition need not be reported.

FILL IN ALL AVAILABLE INFORMATION

16-54252-4

(OVER)

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

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MAY 15 1980