



(1)	M. S. Bright	1903	A 5124, 6040	
(2)	S. B. Hough	1934	B 8118 (No BM's)	
(3)	"	"	"	
	M. Brenner	"	"	
	M. M. Stover	"	"	
(4)	M. Brenner	"	"	
(5)	"	"	"	
(6)	A. B. Cutler	"	"	
(7)	"	"	"	
(8)	"	"	(No BM's)	
(9)	"	"	"	
(10)	M.D. Cummins	1976	PV 982	
(11)	M.D. Cummins	1977	PV 1006	

Third Order

Adjusted Elevations Based
On Sea Level Datum of 1929

Books: A 5124, 6040

Latitude 32°15' Longitude 111°00'

(1) FROM SILVER BELL PEAK QUADRANGLE (72) SOUTHEAST ALONG SOUTHERN
PACIFIC RAILROAD INTO MT. LEMMON QUADRANGLE (70)

Marana, 1.3 mi. NW. of along Southern Pacific RR.; 0.2 mi. NW. of bridge 961A; 705 ft. NW. of milepost 961; 75 ft. W. of corner of a corral; standard iron post with bronze cap stamped "1960 NOGLS" (Recovered by USC&GS, 1954) (Not found, 1967) 1971.991

Marana, 0.7 mi. SE. of along Southern Pacific RR.; at rd. junction; standard iron post with bronze cap stamped "1992 NOGLS" 2003.918

Marana, 1.9 mi. SE. of along Southern Pacific RR.; two poles SE. of milepost 964; at RR. bridge 964.06; 6 ft. NE. of NE. rail; 1 ft. NW. of SE. edge of the abutment; 0.4 ft. SW. of wooden railing; 1.5 ft. lower than track; in NE. end of SE. concrete abutment; aluminum tablet stamped "229 1/2" (Recovered by USC&GS, 1954) 2012.181

Rillito Station, 0.8 mi. NW. of along Southern Pacific RR.; at W. side of rd. junction at fence corner; standard iron post with bronze cap stamped "2051 NOGLS" 2062.997

Rillito Station, 290 ft. NW. of; at NW. side of old water tank; in stone pedestals; aluminum tablet (Reported not found, 1951 by USC&GS) 2056.879

Cortaro Station, 1.8 mi. NW. of along Southern Pacific RR.; 495 ft. NW. of bridge 970C; 465 ft. NW. of a rd. crossing; 100 ft. NE. of track; at a fence corner; standard iron post with bronze cap stamped "2109 NOGLS" (Not found by USC&GS, 1960; new fence) (Not found, 1967) 2120.920

Cortaro, 1.2 mi. SE. of along Southern Pacific RR.; at NE. corner of corral; on S. side of rd.; standard iron post with bronze cap stamped "2179 NOGLS" 2190.928

Cortaro, 1.2 mi. SE. of along Southern Pacific RR.; 150 ft. NE. of milepost 972; in E. end of S. concrete pier of bridge B; aluminum tablet (Reported destroyed, 1951 by USC&GS) (Destroyed) 2189.454

Jaynes Station, 1.1 mi. NW. of along Southern Pacific RR.; 0.4 mi. SE. of milepost 976; 1,947 ft. SE. of SE. end of bridge 975C; 100 ft. W. of rd. junction; standard iron post with bronze cap stamped "2219 NOGLS" (Reported not found by USC&GS, 1951) (Not found, 1967) 2230.942

Third Order Adjusted Elevations Based
 On Sea Level Datum of 1929
Books: A 5124, 6040

- (1) Jaynes Station, 1.1 mi. SE. of along Southern Pacific RR.; 120 ft. NE. of center of access rd. Interstate 10; 20 ft. NE. of NE. rail at main track; at RR. bridge 978.49; 1 ft. SW. of NE. end of abutment; in SE. concrete bulkhead; standard tablet stamped "2258 RESET 1942" (Recovered by USC&GS, 1954)

2260.799

Jaynes Station, 1.9 mi. SE. of along Southern Pacific RR.; at fence corner; on W. side of rd. junction; standard iron post with bronze cap "2288 NOGLS"

2300.016

CORTARO (71)

Arizona

S. B. Hough, 1934

Third Order

Adjusted Elevations Based
on Sea Level Datum of 1929

M. Brenner, 1934

M. M. Stover, 1934

Book: B 8118

Latitude 32°15' Longitude 111°00'

- (3) FROM POINT 1.1 MILES SOUTHEAST OF JAYNES STATION EAST ALONG ROAD TO EAST EDGE OF QUADRANGLE THENCE NORTH AND NORTHWEST INTO TORTOLITA MTS. QUADRANGLE (95) (Double-run)

Jaynes Station, 1.1 mi. SE. of along Southern Pacific RR.; standard tablet stamped "2258 RESET 1942" (Described in Line 1) 2260.799

Jaynes Station, 1.5 mi. E. of; 0.4 mi. E. of cor. secs. 15, 16, 21, 22; T. 13 S., R. 13 E.; at Shamrock Dairy; 114 ft. E. of curve in rd.; in concrete post; standard tablet stamped "K 1 1934 2279" 2278.266

T. 12 S., R. 13 E., at cor. secs. 27, 28, 33, and 34; 1 mi. N. of Ina Rd.; at junction of Magee Rd. and La Cholla Rd.; in concrete post; standard tablet stamped "K 2 1934 2421" (Reported destroyed, 1956) *Not Found '67* 2420.809

T. 12 S., R. 13 E., about 0.4 mi. S. of cor. secs. 3, 4, 9, and 10; about 6 mi. NE. of Sabino; on E. side of La Cholla Boulevard; in concrete post; standard tablet stamped "K 3 1934 2669" *Destroyed '67* 2668.814

T. 11 S., R. 13 E., 0.1 mi. SE. of cor. secs. 21, 22, 27, and 28; 1 mi. N. of junction of La Cholla Boulevard and Camino de Manana; about 3 mi. SE. of the signal tower in the Tortolitas; about 8 mi. NE. of Sabino; in concrete post; standard tablet stamped "K 4 1934 2941" 2940.233

T. 11 S., R. 13 E., about 0.3 mi. E. and 0.2 mi. N. of quarter cor. secs. 30 and 31; about 0.7 mi. NW. of Camino De Manana along rd. to Shields Ranch; on E. side of rd.; about 2.3 mi. W. of junction of La Cholla Boulevard and Camino de Manana; in concrete post; standard tablet stamped "K 5 1934 2779" 2778.480

T. 11 S., R. 12 E.; about 6 ft. from quarter cor. secs. 22 and 23; 6 mi. NE. of Rillito Station along rd. to the Tortillitas; 210 ft. S. of rd.; on small ridge; in a rock; standard tablet stamped "K 6 1934 2639" 2639.004

FILE COPY

1/5/66 mw *uslk*

CORTARO (71)

Arizona

M. Brenner, 1934

Third Order

Adjusted Elevations Based
on Sea Level Datum of 1929

Book: B 8118

Latitude 32°15' Longitude 111°00'

- (4) FROM POINT 1.2 MILES SOUTHEAST OF CORTARO NORTHWEST ALONG SOUTHERN
PACIFIC RAILROAD TO CORTARO THENCE NORTHEAST 1.7 MILES (Double-run)

Cortaro Station, 1.2 mi. SE. of; along Southern Pacific RR.;
aluminum tablet (Described in Line 1) (Destroyed) 2189.454

Cortaro, 0.4 mi. E. of; near rd. junction; in root of mesquite
tree; copper nail and washer 2169.13

Cortaro, 0.9 mi. E. of; in root of mesquite tree; copper nail
and washer 2234.09

Cortaro, 1.7 mi. NE. of; in S. half sec. 24; T. 12 S., R. 12 E.;
435 ft. NE. of ranch house; in concrete post; standard tablet
stamped "K 20 1934 2313" Now Description 1969 2312.456

FILE COPY

1/5/66 mw *ack*

CORTARO (71)

Arizona

M. Brenner, 1934

Third Order

Adjusted Elevations Based
on Sea Level Datum of 1929

Book: B 8118

Latitude 32°15' Longitude 111°00'

- (5) FROM POINT 1.2 MILES SOUTHEAST OF CORTARO NORTHWEST ALONG ROAD VIA RATTLESNAKE PASS TO 4.0 MILES WEST OF PASS THENCE SOUTH 3.0 MILES THENCE WEST ALONG ROAD INTO SILVER BELL PEAK QUADRANGLE (72)
(Double-run)

T. 12 S., R. 12 E.; near center of sec. 35; 1 mi. S. of Cortaro; 0.5 mi. N. of Picture Rock Rd.; 45 ft. E. of Silver Bell Rd.; in concrete post; standard tablet stamped "K 16 1934 2167" *Destroyed* ¹⁹⁶⁷ 2166.488

*9/14/80
original photo
it was taken
1967*

T. 12 S., R. 12 E.; near center of sec. 20; at E. base of Rattlesnake Pass; at junction of Silver Bell and Rattlesnake Pass Rds.; 47 ft. N. of Rattlesnake Pass Rd.; 27 ft. W. of Silver Bell Rd.; in concrete post; standard tablet stamped "K 17 1934 2128" (USC&GS tie) *New Description* 1967 2126.968

T. 12 S., R. 11 E.; at cor. secs. 14, 15, 22 and 23; 3.5 mi. W. of Rattlesnake Pass; 29 ft. N. of center of rd.; in concrete post; standard tablet stamped "K 18 1934 2066" *Destroyed* ¹⁹⁶⁷ 2065.367

T. 12 S., R. 11 E.; at SW. cor. sec. 34; 45 ft. W. of center of rd.; in concrete post; standard tablet stamped "K 19 1934 2186" *New Description* 1967 2185.847

Tps. 12 and 13 S., R. 11 E.; 20 ft. E. of SW. cor. sec. 32; at T-junction of power transmission line and line N.-S.; 83 ft. NE. of power pole; 40 ft. E. of fence corner; 22 ft. E. of center of rd.; in concrete post; standard tablet stamped "K 11 1934 2088" (Reported disturbed 1951 by USC&GS) 2087.686

FILE COPY

1/5/66 *mw/alk*

CORTARO (71)

Arizona

A. B. Cutler, 1934

Third Order

Adjusted Elevations Based
on Sea Level Datum of 1929

Book: B 8118

Latitude 32°15' Longitude 111°00'

- (6) FROM POINT 1.1 MILES SOUTHEAST OF JAYNES STATION SOUTHEAST ALONG SOUTHERN PACIFIC RAILROAD AND WEST ALONG ROAD TO CENTER OF SEC. 33, T. 13 S., R. 13 E. THENCE NORTHWEST ALONG SILVER BELL ROAD 2.0 MILES THENCE EAST ALONG ROAD TO RAILROAD THENCE SOUTHEAST ALONG RAILROAD TO POINT 1.1 MILES SOUTHEAST OF JAYNES STATION (Double-run)

Jaynes Station, 1.1 mi. SE. of along Southern Pacific RR.; standard tablet stamped "2258 RESET 1942" (Described in Line 1) 2260.799

T. 13 S., R. 13 E., in center sec. 33; about 0.4 mi. N. from junction of Ironwood Hill Rd. and Silver Bell Rd.; 1.7 mi. NW. of junction of speedway; 10 ft. W. of gate of Collie's Ranch (also known as Old Red Gate Ranch); in concrete post; standard tablet stamped "K 14 1934 2300" 2299.538

Jaynes Station, 1.1 mi. SE. of along Southern Pacific RR.; standard tablet stamped "2258 RESET 1942" (Described in Line 1) 2260.799

FILE COPY

1/5/66 mw *alk*

CORTARO (71)

Arizona

A. B. Cutler, 1934

Third Order

Adjusted Elevations Based
on Sea Level Datum of 1929

Book: B 8118

Latitude 32°15' Longitude 111°00'

- (7) FROM A POINT 2.0 MILES NORTHWEST OF CENTER SEC. 33, T. 13 S.,
R. 13 E., NORTHWEST ALONG SILVER BELL ROAD TO POINT 0.5 MILE
WEST OF SUNSET DAIRY THENCE EAST ALONG ROAD TO SOUTHERN PACIFIC
RAILROAD THENCE SOUTHEAST TO POINT 1.1 MILES SOUTHEAST OF JAYNES
STATION (Double-run)

Collie's Ranch Gate, 4 mi. NW. of along Silver Bell Rd.; 0.3 mi.
S. of Sunset Dairy Rd.; 63 ft. E. of gate of Miller's Ranch; 21
ft. W. of center of rd.; in concrete post; standard tablet
stamped "K 15 1934 2221" *Not found '67*

2220.296

Jaynes Station, 1.1 mi. SE. of along Southern Pacific RR.; stand-
ard tablet stamped "2258 RESET 1942" (Described in Line 1)

2260.799

FILE COPY

1/5/66 *msk*

BENCH MARK DESCRIPTIONS, FIELD SUMMARY

Page Quads. Miles State Adl. By Date
 M. Page Bl. State Adl. By Date
 a/28

Page	Quads.	Miles	State	Adl.	By	Date
	CORTARO (71)		Arizona		M.D. Cummins,	1976
	Third Order				Field Elevations	
Book:	PV 982					
	(10)					
					Latitude 32°15' Longitude 111°00'	
					FROM THE WEST SIDE OF MOUNT LEMON QUADRANGLE (70) WEST TO USGS BENCH MARK "K 5 1934 2779"	
a/28					9.20 Tucson, 9.6 mi N. and NE. of, along Hwy. 80 and 89 from intersection of Miracle Mile and N. Oracle Rd., thence 2.05 mi N. along First Ave., thence 3.1 mi W. along Tangerine Rd.; at offset crossing of La Cholla Blvd.; 48 ft S. of centerline of Tangerine Rd., 29 ft E. of projected centerline of La Cholla Blvd. (N.), 1 ft S. of tie down pole with 3 guy wires, 4 ft N. of W.-E. fence line; set on 5/8-inch copper-coated rod encased in 6-inch drainpipe; standard tablet stamped "7 MDC 1976 2779"	2779.222
					10.23 Tucson, 9.6 mi N. and NE. of, along Hwy. 80 and 89 from intersection of Miracle Mile and N. Oracle Rd., thence 2.05 mi N. along First Ave., thence 3.1 mi W. along Tangerine Rd., thence 1.0 mi N. along La Cholla Blvd.; at intersection of La Cholla Blvd. and Moore Rd.; 48 ft W. of centerline of La Cholla Blvd., 34 ft N. of centerline of Moore Rd., at major power pole jct. point, 1 ft N. of pole No. 1D/78 12800, about level with rd.; set on 5/8-inch copper-coated rod encased in 6-inch drainpipe; standard tablet stamped "8 MDC 1976 2859"	2858.889
					SPUR LINE TO USGS BM "K 4 1934 2941"	
					0.94 BM "K 4 1934" (USGS) New Description by MDC: Tucson, 9.6 mi N. and NE. of, along Hwy. 80 and 89 from intersection of Miracle Mile and N. Oracle Rd., thence 2.05 mi N. along First Ave., thence 3.1 mi W. along Tangerine Rd., thence 1.95 mi N. along La Cholla Blvd.; 0.1 mi SE. of section corner S21 T11S R13E; 195 ft E. of centerline of blvd. from top of rise in rd. that is about 0.1 mi S. of section corner S21 T11S R13E, 3 ft W. of cairn, about 3 ft higher than blvd. from top of rise; set in concrete post, projecting 0.3 ft; standard tablet stamped "K 4 1934 2941" (Previously described in USGS line 3)	2939.783
					K 4 prev. elev. 2940.233 K 4 this run 2939.783 Difference = -0.450	
					RETURN TO MAIN LINE	
					10.23 BY "8 MDC 1976 2859" (As above)	2858.889

BENCH MARK DESCRIPTIONS, FIELD SUMMARY

Page Quads. Miles State Adl. By Date
 M. Page Bl. State Adl. By Date
 a/34

Page	Quads.	Miles	State	Adl.	By	Date
	CORTARO (71)		Arizona		M.D. Cummins,	1976
	Third Order				Field Elevations	
Book:	PV 982					
a/34						
					11.23 Tucson, 9.6 mi N. and NE. of, along Hwy. 80 and 89 from intersection of Miracle Mile and N. Oracle Rd., thence 2.05 mi N. along First Ave., thence 3.1 mi W. along Tangerine Rd., thence 1.0 mi N. along La Cholla Blvd., thence 1.0 mi W. along Moore Rd.; at I-track rd. S. of centerline of Moore Rd., 38 ft S. of fence corner, 5 ft W. of centerline of track rd. S., in line with fence; set on 5/8-inch copper-coated rod encased in 6-inch drainpipe; standard tablet stamped "9 MDC 1976 2823"	2822.654
					12.69 BM "K 5 1934" (USGS) New Description by MDC: Tucson, 9.6 mi N. and NE. of, along Hwy. 80 and 89 from intersection of Miracle Mile and N. Oracle Rd., thence 2.05 mi N. along First Ave., thence 3.1 mi W. along Tangerine Rd., thence 1.0 mi N. along La Cholla Blvd., thence 2.05 mi W. along Moore Rd., thence through a cattleguard and continue W. 0.25 mi along track rd., thence 0.2 mi N. along track rd.; 15 ft W. of centerline of rd., in clear flat sandy area; set in concrete post projecting 0.2 ft; standard tablet stamped "K 5 1934 2779" (Previously described in USGS line 3)	2778.147
					K 5 prev. elev. 2778.480 K 5 this run 2778.147 Closure = -0.333	

FILE COPY

CORTARO (71)

Arizona

32 111 21

M.D. Cummins, 1977

SUBSIDENCE AREA

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

Book: PV 1006

Latitude 32°15' Longitude 111°00'

(11) FROM THE NORTHEAST EDGE OF SILVER BELL PEAK QUADRANGLE (72) SOUTHEAST
ALONG HIGHWAY INTO THE SOUTHWEST EDGE OF MOUNT LEMMON QUADRANGLE (70)
(By M.D. Cummins, 1977; Book: PV 1006)

BM "C 284 1949" (NGS Quad 32 111 2, line 101)	1945.153
BM "99+16.7 1931" (AHD)(NGS Quad 32 111 2, line 101)	1952.353
BM "1952.66+4266+25.99 1951" (AHD)(NGS Quad 32 111 2, line 101)	1952.235
BM "108+87.3+1955.25 1931" (AHD)(NGS Quad 32 111 2, line 101)	1954.599
BM "4275+94.02+1954.55 19__" (AHD)(NGS Quad 32 111 2, line 101)	1954.077
BM "D 284 1949" (NGS Quad 32 111 2, line 101)	1963.147
BM "1969.43+171+82 1931" (AHD)(NGS Quad 32 111 2, line 101)	1968.932
BM "1987.92+215+50 1931" (AHD)(NGS Quad 32 111 2, line 101)	1987.318
RM "STEVE NO 1 1960" (NGS Quad 32 111 2, line 116)(THIRD-ORDER OBSERVATIONS)	1988.199
TRIANGULATION STATION "STEVE 1960" (NGS Quad 32 111 2, line 116)	1987.585
BM "248+37.9 1931" (AHD)(NGS Quad 32 111 2, line 101)	1997.560
BM "4415+48.40+1997.52" (AHD)(NGS Quad 32 111 2, line 101)	1997.083
BM "262+07.91+2001.73 1951" (AHD)(NGS Quad 32 111 2, line 101)	2001.260
BM "4429+21.00+2001.12 1951" (AHD)(NGS Quad 32 111 2, line 101)	2000.703
BM "272+10+2002.88 1931" (AHD)(NGS Quad 32 111 2, line 101)	2002.433
BM "4439+26.28+2002.40 1951" (AHD)(NGS Quad 32 111 2, line 101)	2002.027
BM "279+97.1+2002.91" (AHD)(NGS Quad 32 111 2, line 101)	2002.610
BM "2003.38+4447+12.17" (AHD)(NGS Quad 32 111 2, line 101)	2003.003
BM "288+30+2004.43" (AHD)(NGS Quad 32 111 2, line 101)	2004.162
BM "4455+42.00+2004.53 1951" (AHD)(NGS Quad 32 111 2, line 101)	2004.142
BM "4467+35.36+2006.42 1951" (AHD)(NGS Quad 32 111 2, line 101)	2006.032

CORTARO (71)

Arizona

32 111 21

M.D. Cummins, 1977

SUBSIDENCE AREA

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

Book: PV 1006

(11) BM "300+23.88+2006.92 1931" (AHD)(NGS Quad 32 111 2, line 101)	2006.484
BM "2013.37+328+76.0 1931" (AHD)(NGS Quad 32 111 2, line 101)	2012.978
BM "2032.45+386+70 1931" (AHD)(NGS Quad 32 111 2, line 101)	2032.210
BM "MARANA NO 3 1935 AZIMUTH" (NGS Quad 32 111 2, line 101)	2032.195
BM "J 291 1951" (NGS Quad 32 111 2, line 101)	2041.522
BM "K 291 1951" (NGS Quad 32 111 2, line 101)	2056.240
BM "L 291 1951" (NGS Quad 32 111 2, line 101)	2060.160
BM "2064.31+45+21.7" (AHD)(NGS Quad 32 111 2, line 101)	2063.858
BM "2065.39+59+55.2 1930" (AHD)(NGS Quad 32 111 2, line 101)	2064.940
BM "2070.91+75+16.2" (AHD)(NGS Quad 32 111 2, line 101)	2070.500
BM "RILLITO NO 3 1935 AZIMUTH" (NGS Quad 32 111 2, line 101)	2070.464
BM "H 140 1935" (NGS Quad 32 111 2, line 101)	2087.814
BM "2088.80+143+93.4" (AHD)(NGS Quad 32 111 2, line 101)	2088.474
BM "2094.57"161"82.7 1930" (AHD)(NGS Quad 32 111 2, line 101)	2094.144
BM "2012.46+187+96 1930" (AHD)(NGS Quad 32 111 2, line 101)(Note: NGS published is "2102.46")	2101.901
BM "2112.08+205+51.2 1930" (AHD)(NGS Quad 32 111 2, line 101)	2111.681
BM "225+13.9+2122.17 1930" (AHD)(NGS Quad 32 111 2, line 101)	2121.738
BM "240+34.0+2127.94" (AHD)(NGS Quad 32 111 2, line 101)	2127.523
BM "261+04.8+2136.58" (AHD)(NGS Quad 32 111 2, line 101)	2136.086
RM "CORTARO 1959 NO 3 1971" (NGS Quad 32 111 2, line 116)(THIRD- ORDER OBSERVATION)	2136.780
TRIANGULATION STATION "CORTARO 1959" (NGS Quad 32 111 2, line 116)	2136.690
BM "273+09.6+2141.97" (AHD)(NGS Quad 32 111 2, line 101)	2141.488
BM "284+14.3+2148.04 1930" (AHD)(NGS Quad 32 111 2, line 101)	2147.556

CORTARO (71)

Arizona

32 111 21

M.D. Cummins, 1977

SUBSIDENCE AREA

Trunk Line

Adjusted Elevations Based on National
Geodetic Vertical Datum of 1929

Book: PV 1006

(11) BM "297+42.1+2152.78" (AHD)(NGS Quad 32 111 2, line 101)	2152.206
BM "95+65.2+2156.78 1948" (AHD)(NGS Quad 32 111 2, line 101)	2156.233
BM "342+64.1+2164.91 1930" (AHD)(NGS Quad 32 111 2, line 101)	2164.257
BM "354+91.6+2171.20 1930" (AHD)(NGS Quad 32 111 2, line 101)	2170.736
BM "364+91.7+2174.59 1930" (AHD)(NGS Quad 32 111 2, line 101)	2174.165
BM "375+18.0+2180.62 1930" (AHD)(NGS Quad 32 111 2, line 101)	2180.209
BM "385+14.0+2184.26 1930" (AHD)(NGS Quad 32 111 2, line 101)	2183.807
BM "408+27.9+2196.90 1930" (AHD)(NGS Quad 32 111 2, line 101)	2196.337
BM "425+50+2206.20 1930" (AHD)(NGS Quad 32 111 2, line 101)	2205.566
BM "448+05.2+2215.17 1930" (AHD)(NGS Quad 32 111 2, line 101)	2214.497
BM "2221.68+458+01.0 1930" (AHD)(NGS Quad 32 111 2, line 101)	2221.085
BM "2221.71+458+01.0 1930" (AHD)(NGS Quad 32 111 2, line 101)	2221.114
RM "JAYNES NO 2 1935" (NGS Quad 32 111 2, line 101)(THIRD-ORDER OBSERVATION)	2215.213
TRIANGULATION STATION "JAYNES 1935" (NGS Quad 32 111 2, line 101)	2215.161
BM "JAYNES NO 3 1935 AZIMUTH" (NGS Quad 32 111 2, line 101)	2210.661
BM "P 291 1951" (NGS Quad 32 111 2, line 101)	2223.259
BM "Q 291 1951" (NGS Quad 32 111 2, line 101)	2230.055
BM "598+20+2247.43" (AHD)(NGS Quad 32 111 2, line 101)	2246.665
BM "651+14.6+2261.18 1930" (AHD)(NGS Quad 32 111 2, line 101)	2260.484
BM "R 291 1951" (NGS Quad 32 111 2, line 101)	2271.830
Jaynes, 2.2 mi SE. of along S.P. RR. from station; at X-ing. of Prince Rd. E., 41 ft S. of centerline of Prince Rd., 22 ft E. of northeast rail of northeast track of RR., 1 ft higher than Prince Rd. surface; set in top center of southwest concrete headwall of concrete box culvert under Prince Rd.; AHD brass disk stamped "2281.34 1965"	2281.500

FILE 631

REPORT ON PERMANENT SURVEY MARK

71
 AREA OFFICE

STATE Arizona COUNTY Pima QUADRANGLE (71)
 QUOTE PRIMARY REFERENCE About 1.7 MI. NE of Cortaro, 435 ft E. of Professor Hemingway's
large 2-story, stone ranch house. (Direction and distance)

DESIGNATION { LISTED "K 20" STAMPED "K-20 1934 Elev 2313 Ft" TYPE OF MARK: BM _____ TT _____ TRIANG. X

Lat. 32 ° 22 ' 15.35 " CONDITION Disturbed Destroyed Not Found ESTABLISHED BY USGS USC&GS USNPS USGLO USBLM USBR State GS USNFS CWA (Other)

R. B. Olson reports:

REMARKS OR REVISED DESCRIPTION: "Located about 5 1/2 miles SE of Píllito, 1 1/2 miles NE of Cortaro in the SE 1/4 of Section 24, T 12S, R12E, 24 25 ft SE of dirt road, 435 feet NE of ruins of a 2 story stone house. To reach from Cortaro go NW on Cortaro Road to freeway underpass - continue East on Cortaro Road for 1.05 miles to Road T - Turn Left (North) on track rd for 0.2 mile to road "Y" take right fork & go 0.7 mile to station on right. Station mark: a USGS (CWA) station stamped "K-20 1934 Elev 3213 FT" Set in concrete post.

SUBMITTED BY E. A. Medina
 TITLE Civ. Engr. Tech.
 AGENCY USGS

DATE June 1967

Marks found in good condition need not be reported.

FILL IN ALL AVAILABLE INFORMATION

FILE COPY

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

REPORT ON PERMANENT SURVEY MARK

71
AREA OFFICE

STATE Arizona COUNTY Pima QUADRANGLE (71)
QUOTE PRIMARY REFERENCE On Silver Bell rd., at E. Foot of Rattlesnake Pass.
(Direction and distance)

DESIGNATION { LISTED "K-17" USGS Line 5
STAMPED "K-17-1934-2128" TYPE OF MARK: BM TT TRIANG.

Lat. 32 22 28.58 CONDITION USGS USBR
111 08 21.57 Disturbed
Long. 2126.968 Destroyed USC&GS State GS
Elev. 2126.968 Not Found USNPS USNFS
R. B. Olson reports: " USGLO CWA XXX
USBLM (Other)

REMARKS OR REVISED DESCRIPTION: "Located about 3 1/2 mi NW of Cortaro, 2 1/2 mi South of Rillito & 1 1/2 mi SW of U.S. Highway Interstate 10, at a "Y" intersection near the center of Sec 20 T12S R12E, about 100 feet N of the center of the "Y" intersection. To reach from the Post Office at Cortaro, go SW 0.9 miles on Cortaro Road to Junction with Silver Bell Road. Turn right & go 3.3 miles to "Y" Junction & station. Station Mark: A USGS tablet set by CWA in concrete post stamped "K 17 1934 2128"

SUBMITTED BY E. A. Medina
TITLE Civ. Engr. Tech DATE June 1967
AGENCY USGS

Marks found in good condition need not be reported.

FILL IN ALL AVAILABLE INFORMATION

16-54232-4

(OVER)

REPORT ON PERMANENT SURVEY MARK

71
AREA OFFICE

STATE Arizona COUNTY Pima QUADRANGLE (71)
QUOTE PRIMARY REFERENCE T 12S., R11E., Near S. Cor. Secs. 33 and 34, about 45 ft W
of center of rd. (Direction and distance)

DESIGNATION { LISTED "K 19" USGS Level + 4 Line 5
STAMPED "K 19 1934 2186 Feet" TYPE OF MARK: BM TT TRIANG.

Lat. 32 20 07.22 CONDITION USGS USBR
111 12 57.54 Disturbed
Long. 2186.068 Destroyed USC&GS State GS
Elev. 2186.068 Not Found USNPS USNFS
R. B. Olson reports: " USGLO CWA XXX
USBLM (Other)

REMARKS OR REVISED DESCRIPTION: "Located about 8 1/2 mi S of Marana, 7 mi SW of Rillito, 8 miles W of Cortaro, 1/2 mile North of a Grocery Store on San Dario Road and 30 feet North of a dirt road leading West. To reach from RR Depot at Rillito go South on U.S. Interstate # 10 for 1.5 miles to Avra Road, turn right (West) & go 5/10 miles to Junc. with San Dario Road, Turn left (South) & go 4.8 miles to station on right. Station Mark: A USGS (CWA) tablet stamped "K 19 1934 2186 Feet" set in concrete. Note The road grader has exposed one side of concrete post & station is in danger of caving into ditch."

SUBMITTED BY E. A. Medina
TITLE Civ. Engr. Tech. DATE June 1967
AGENCY USGS

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