

FILE COPY

REDROCK (96)

Arizona

A.D. Schultz, 1946

Third Order

Adjusted Elevations Based
On Sea Level Datum of 1929

Book: V 241

Latitude 32°30' Longitude 111°15'

- (9) FROM POINT 0.2 MILES SOUTHEAST OF RED ROCK NORTHWEST ALONG HIGHWAY 84 FOR 1.6 MILES THENCE NORTHEAST ALONG PIPELINE ROAD INTO TORTOLITA MOUNTAINS QUADRANGLE (95)

NOTE: This line was run by Third Order methods by closure was 0.543 ft. high in a distance of 17.7 miles. This closure error has been prorated in the line.

Red Rock, 0.2 mi. S. of; standard tablet stamped "ADS 8 1867 1946" (Described in Line 6) (Destroyed)

1867.040

Red Rock Post Office, 1.4 mi. NW. along Highway 84 at a T-rd. NE. across railroad tracks; 70 ft. SW. of rd. intersection; 2.7 ft. NW. of NW. end of bridge No. 950.23; in concrete post; standard tablet stamped "ADS 16 1845 1946" (Recovered by USC&GS)

1844.921

Reference mark, 113 ft. E. of tablet; 34 ft. NE. of center of rd.; in W. side of telegraph pole; railroad spike

Not Found '77

1847.455

Red Rock Post Office, 1.4 mi. NW. along Highway 84 thence 0.9 mi. NE. from pipe line rd.; 35 ft. SE. of center of rd.; in NW. side of a mesquite tree; railroad spike

Not Found '77

1870.575

Red Rock Post Office, 1.4 mi. NW. along Highway 84 thence 2 mi. NE. from along pipe line rd.; at junction of rd. N.; 44 ft. SE. of center of rd.; in concrete post; standard tablet stamped "ADS 17 1912 1946" (Destroyed)

1912.067

Reference mark, 378 ft. N. of tablet; 83 ft. W. of center of rd.; in NE. stump of mesquite tree; copper nail and washer

Not Found '77

1914.085

Red Rock Post Office, 1.4 mi. NW. along Highway 84 thence 2.9 mi. NE. from along pipe line rd.; 22 ft. SE. of center of rd.; in S. root of mesquite tree; copper nail and washer

Not Found '77

1954.24

Red Rock Post Office, 1.4 mi. NW. along Highway 84 thence 4 mi. NE. from along pipe line rd.; 21 ft. SE. of center of rd.; in concrete post; standard tablet stamped "ADS 18 2000 1946" (Destroyed)

1999.17

Reference mark, 556 ft. N. of tablet; 70 ft. NW. of center of rd.; in S. stump of mesquite tree; copper nail and washer

Not Found '77

2002.06

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REDROCK (96)

Arizona

A.D. Schultz, 1946

Third Order

Adjusted Elevations Based
On Sea Level Datum of 1929

Book: V 241

(9) Red Rock Post Office, 1.4 mi. NW. along Highway 84 thence
5.1 mi. NE. from along pipe line rd.; 26 ft. NW. of center ~~Not Found~~¹⁷
of rd.; in E. stump of palo verde tree; copper nail and
washer

2052.045

Red Rock Post Office, 1.4 mi. NW. along Highway 84 thence
6.2 mi. NE. from along pipe line rd.; 300 ft. SW. of gate; ^{Disturbed}¹⁷
22 ft. SE. of center of rd.; in concrete post; standard
tablet stamped "ADS 19 2110 1946"
Latitude: $32^{\circ}39'20.88''$ Longitude: $111^{\circ}15'37.26''$

2109.790

Reference mark, 291 ft. N. of tablet, 64 ft. W. of gate,
GLO corner stamped "IS 7 IS 18 T9S R11E 1919"

2112.602

9-1078-A

QUAD. REDROCK (96)

STATE ARIZONA

BY A.D. SCHULTZ-1946 ALTITUDE ABOVE
MEAN SEA LEVEL

ORDER THIRD

ADJ. ELEVATIONS BASED ON SEA-LEVEL DATUM OF 1929 (FEET)

Book: V 241a

ARIZONA
REDROCK QUADRANGLE
(Latitude: $32^{\circ}30'$ - $32^{\circ}45'$; Longitude: $111^{\circ}15'$ - $111^{\circ}30'$)
PINAL AND PIMA COUNTIES

UNSTABLE AREA
USE WITH CARE

(10) FROM POINT 5.8 MILES SOUTHWEST OF REDROCK NORTHWEST ALONG ROAD INTO ELOY QUADRANGLE (97)

"S 89 1935" (USGS)

1798.566

Red Rock, 6.3 mi. SW. along rd. to Sasco, thence 0.7 mi. NW. from; at a rd. fork at ranch buildings; 50 ft. SE. of rd. fork; 31 ft. S. of fence corner; in concrete post; standard tablet stamped "ADS25-17Ch-1946" (Recovered by USGS, 1952)

New Date '77

1734.271

Reference mark, 118 ft. S. of tablet; 27 ft. W. of center of rd.; in NE. side of mesquite tree; PR. spike

1734.275

La Osa Ranch, 0.9 mi. W. of; 27 ft. S. of center of rd.; in W. stump of mesquite tree; copper nail and washer

NSF-'77

1770.496

"U 91 1935" (USGS) (See Line 13)

1762.316

Reference mark, about 370 ft. E. of tablet; 14 ft. S. of center of rd.; in W. stump of mesquite tree; copper nail and washer

1761.574

La Osa Ranch, 2.9 mi. W. of; 76 ft. E. of gate; 13 ft. S. of center of rd.; in W. stump of mesquite tree; copper nail and washer

NSF-'77

1737.941

"V 91 1935" (USGS) (See Line 13)

1734.129

Reference mark, 46 ft. S. of tablet; in N. stump of palo verde tree; copper nail and washer

1736.912

La Osa Ranch, 4.8 mi. W. of; at the corner sections 10-11; 10 ft. N. of center of rd.; iron pipe with U.S. General Land Office cap stamped "10-11 1913" (Recovered by USGS, 1952)

NSF-'77

1736.619

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9-16-58 1t *Vocal*

REDROCK (96)

Arizona

D. Meyer, 1963

Third Order

Adjusted Elevations Based
On Sea Level Datum of 1929

Book: PV 542

Latitude 32°30' Longitude 111°15'

Subsidence Area

- (11) FROM THE SOUTH EDGE OF PICACHO RESERVOIR QUADRANGLE (120) WEST
ALONG QUADRANGLE BORDER INTO THE NORTHEAST CORNER OF ELOY
QUADRANGLE (97)

Eloy, 6 mi. E. of, 75 ft. W. and 3 ft. N. of E.-W. fence, at
drainage ditch, the probable 1/4 corner between sections 6,
7, T. 8 S., R. 9 E., in concrete post; standard tablet stamped
"26 DM 1963 1609"

1609.666

Reference mark, 7.6 ft. SE. of tablet, on S. end of steel
culvert; chiseled square

1608.671

BM "26 DM 1963", 0.5 mi. W. of, 50 ft. N. and 30 ft. W. of
T-rd. W., on concrete headgate; rod held on the circular
part of the number "6" in the scribed date "1/7/63"

1602.204

BM, "26 DM 1963", 1.5 mi. W. of, 6 ft. S. and 15 ft. W. of
intersection of rd. tangents N. and E., 1 ft. E. of a fence,
on rock; chiseled square

Not found '77

1591.468

BM, "26 DM 1963", 2.5 mi. W. of, 30 ft. S. of rd., on NW.
corner of cement-block dry well; chiseled square

Not found '77

1584.440

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4/12/65 slh

REDROCK (96)

Arizona

B. K. Coker, 1963-1964

Third Order

Adjusted Elevations Based
on Sea Level Datum of 1929

Books: PV 542

PV 578 Latitude 32°30' Longitude 111°15'

Subsidence Area

- (12) FROM "M 279" 7.8 MILES SOUTHEAST ALONG SOUTHERN PACIFIC RAILROAD
FROM THE STATION AT PICACHO NORTHWEST ALONG STATE HIGHWAY 84 INTO
THE EAST EDGE OF ELOY QUADRANGLE (97)

BM "M 279" (USC&GS) Line 101, 32-111-1

1794.347

BM "L 279" (USC&GS) 32-111-1

1775.135

USC&GS 1775.174
B. Coker, 1963 1775.174

BM "K 279" (USC&GS) Line 101, 32-111-1

1772.396

USC&GS 1772.506
B. Coker, 1963 1772.434T.P., at milepost 942, 63 ft. N. of old highway on rod iron
pipe, Southern Pacific pipe line

1721.8

BM "G 279" (USGS, USC&GS) Line 101, 32-111-1 (See A - Line 15)

1706.398

USC&GS 1707.057
B. Coker, 1963 1706.777

BM "F 279" (USC&GS) Line 101, 32-111-1

1674.149

USC&GS 1675.636
B. Coker, 1963 1674.628

BM "E 279" (USC&GS) 32-111-1

1641.767

USC&GS 1643.402
B. Coker, 1963 1642.310

BM "1741+00" (AHD, USC&GS) 32-111-1

1620.911

USC&GS 1622.589
B. Coker, 1963 1621.463

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6/11/65 dc

RED ROCK (96)

Arizona

32 111 13
W.B. Cook, 1977

SUBSIDENCE AREA

Trunk Line

Adjusted Elevations Based on National
Geodetic Vertical Datum of 1929

Book: PV 1006

(13) Red Rock Elementary School, 0.2 mi NE. of along Sasco Rd.; 100 ft
SW. of intersection with frontage rd. on southwest side of I-Hwy.
10, 16 ft NW. of centerline of Sasco Rd.; in top of northwest
headwall of concrete and steel cattleguard; AHD ELEV and STA
tablet; unstamped

1866.352

TRIANGULATION STATION "OVERPASS 1959" (NGS Quad 32 111 1, line
107) (USGS line 15)

1894.141

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BED ROCK (96)

Arizona

32 111 13
W.B. Cook, 1977

Third Order

ADJUSTED ELEVATIONS
Adjusted Elevations Based on National
Geodetic Vertical Datum of 1929

Book: PV 1006

Latitude 32°30' Longitude 111°15'

- (14) FROM A POINT 0.2 MILE SOUTHWEST OF PICACHO SOUTH THENCE WEST INTO THE EASTERN EDGE OF ELOY QUADRANGLE (97) (By W.B. Cook, 1977; Book: PV 1006)

BM "1723+60 1931" (AHD)(NGS Quad 32 111 1, line 101)[1977 USGS ELEVATION](USGS line 15)

1612.192

Picacho Post Office, 0.7 mi S. of along Picacho Blvd.; in northwest corner section 26, T8S, R8E; 52 ft S. of centerline of X-rd., 22 ft E. of centerline of blvd.; in top center of east concrete headwall of 4 x 8-ft double box concrete culvert; AHD tablet stamped "ELEV 911.31+STA 423+50 19 "

1621.837

Picacho Post Office, 1.7 mi S. of along Picacho Blvd.; in northeast corner section 34, T8S, R8E; 90 ft S. of centerline of T-rd. W., 50 ft W. of centerline of blvd., 2 ft S. of 4-inch angle iron witness post; set on concrete post projecting 2 inches; AHD tablet stamped "R/W POT 370+00 1962"

1632,910

Picacho Post Office, 2.6 mi S. of along Picacho Blvd.; in southwest corner section 35, T8S, R8E; 200 ft N. of extended centerline of T-rd. W., 52 ft E. of centerline of blvd., 2 ft S. of 4-inch angle iron witness post; in east right-of-way fence; on concrete post projecting 4 inches; AHD tablet; unstamped (Note: Do not confuse with similar mark on west side of blvd.)

1647.456

SPUR LINE TO BM "E 284 1949"

BM "J 284 1949" (NGS Quad 32 111 1, line 101)

1662 907

BM "E 284 1939" (NGS Quad 32 111 1, line 101)

1670 568

RETURN TO MAIN LINE

AHD tablet: unstamped (as above)

1647 456

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OCT 5 1977 d1h

RED ROCK (96) Arizona 32 111 13
 Trunk Line Adjusted Elevations Based on National M.D. Cummins, 1977
 Geodetic Vertical Datum of 1929
 Book: PV 1006 Latitude 32°30' Longitude 111°15'
 SUBSIDENCE AREA

- (15) FROM THE NORTHEAST CORNER OF ELOY QUADRANGLE (97) SOUTHEAST ALONG HIGHWAY INTO THE NORTHEAST CORNER OF SILVER BELL PEAK QUADRANGLE (72) (By M.D. Cummins, 1977; Book: PV 1006)

BM "1723+60 1931" (AHD) (NGS Quad 32 111 1, line 101) (PV 936) (USGS line 14)	1612.192
BM "1741+00 1931" (AHD) (NGS Quad 32 111 1, line 101) (PV 936) (USGS line 12)	1617.710
BM "E 279 1948" (NGS Quad 32 111 1, line 101) (USGS line 12)	1638.253
BM "1832+30.00 1659.98 1955" (AHD) (NGS Quad 32 111 1, line 101)	1653.603
BM "F 279 1948" (NGS Quad 32 111 1, line 101) (USGS line 12)	1670.745
BM "1692.11+1897+85.07 1955" (AHD) (NGS Quad 32 111 1, line 101)	1687.321
RM "OCOTILLA NO 2 1959" (NGS Quad 32 111 1, line 107) (THIRD-ORDER OBSERVATION)	1685.492
RM "OCOTILLA NO 1 1959" (NGS Quad 32 111 1, line 107) (THIRD-ORDER OBSERVATION)	1685.839
TRIANGULATION STATION "OCOTILLA 1959" (NGS Quad 32 111 1, line 107)	1685.713
BM "G 279" (USGS) (NGS Quad 32 111 1, line 101) (USGS line 2,12) (Note: NGS published is "G 279 <u>206 1/2</u> ")	1702.941
BM "1722+30+1961+00.09 1954" (AHD) (NGS Quad 32 111 1, line 101)	1719.187
SPUR LINE TO "D 367 1967"	
"S29 T8S R9E 1913" (GLO)	1756.806
BM "D 367 1967" (NGS Quad 32 111 1, line 101) [NGS ELEVATION]	1763.238
RETURN TO MAIN LINE	
BM "1722+30+1961+00.09 1954" (AHD) (NGS Quad 32 111 1, line 101)	1719.187
BM "1736.49+1993+90.09 1954" (AHD) (NGS Quad 32 111 1, line 107)	1734.973

RED ROCK (96)

Arizona

32 111 13
M.D. Cummins, 1977

SUBSIDENCE AREA

Trunk Line

Adjusted Elevations Based on National
Geodetic Vertical Datum of 1929

Book: PV 1006

(15) Picacho, 5.65 mi SE. of along S.P. RR. from station; due SW. of RR. bed, across frontage access rd., at concrete box culvert under northwest-bound lane of I-Hwy. 10; 23 ft SW. of centerline of northwest-bound lane, about 0.3 ft higher than hwy. surface; cemented in top center of southwest concrete headwall of culvert; AHD brass disk stamped "1749.85+2029+99.9 1954"	1747.060
BM "3425+49.90+1758+64 1951" (AHD) (NGS Quad 32 111 1, line 107)	1756.083
BM "K 279" (AHD) (NGS Quad 32 111 1, line 101) (USGS line 12)	1772.268
BM "L 279" (AHD) (NGS Quad 32 111 1, line 101) (USGS line 12,19)	1775.119
BM "M 279" (AHD) (NGS Quad 32 111 1, line 101) (USGS line 12)	1794.370
Red Rock, 4.8 mi NW. of along S.P. RR. from station; due SW. of RR. bed, across frontage access rd., at concrete box culvert under northwest-bound lane of I-Hwy. 10; 23 ft SW. of centerline of northwest-bound lane, about 0.4 ft higher than hwy. surface; cemented in top center of southwest concrete headwall of culvert; AHD brass disk stamped "1799.74+3560+99.88 1954"	1799.773
BM "1807+92 3620+16.77 1950" (AHD) (NGS Quad 32 111 1, line 107)	1807.768
BM "Q 279 1948" (NGS Quad 32 111 1, line 101)	1815.799
BM 1 ft NW. of 1832.25+3711+53.00 1950; unstamped (AHD) (Note: Leveled to provide a RM) (THIRD-ORDER OBSERVATION)	1831.484
BM "1832.25+3711+53.00 1950" (AHD) (NGS Quad 32 111 1, line 101) (Note: Concrete that cements tablet in headwall is badly deteriorated.) (USGS line 16)	1831.521
BM "1848.92+3765+00.68 1950" (AHD) (NGS Quad 32 111 1, line 101)	1848.366
BM "1856.79+3795+00.15 1950" (AHD) (NGS Quad 32 111 1, line 107)	1856.163
Red Rock, 0.6 mi NW. of at Bedrock Overpass; 28 ft due WSW. of and about level with triangulation station; cemented in top of south- west end of concrete curbing along wes side of overpass bridge; NGS RM disk stamped "OVERPASS NO 1 1959" (THIRD-ORDER OBSERVATION)	1894.096
Red Rock, 0.6 mi NW. of at Bedrock Overpass; 28 ft due NNE. of and about level with triangulation station; cemented in top of concrete curbing along east side of overpass bridge; NGS RM disk; unstamped (AHD ?) (THIRD-ORDER OBSERVATION)	1894.245

RED ROCK (96)

Arizona

32 111 13
M.D. Cummins, 1977

SUBSIDENCE AREA

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

Book: PV 1006

(15) TRIANGULATION STATION "OVERPASS 1959" (NGS Quad 32 111 1, line 107) (USGS line 13)	1894.141
BM "1875.98+3850+72.20 1950" (AHD) (NGS Quad 32 111 1, line 101)	1875.292
BM "1879.02+3860+55.68 1950" (AHD) (NGS Quad 32 111 1, line 101)	1878.484
BM "1884.70+3879+57.94 1950" (AHD) (NGS Quad 32 111 1, line 101)	1883.968
BM "1898.38+3931+30.70 1950" (AHD) (NGS Quad 32 111 1, line 101)	1897.690
BM "1903.39+3954+00.83 1950" (AHD) (NGS Quad 32 111 1, line 101)	1903.615
RM "SAGUARO NO 1 1959" (NGS Quad 32 111 1, line 107) (THIRD-ORDER OBSERVATION)	1904.210
RM "SAGUARO NO 2 1959" (NGS Quad 32 111 1, line 107) (THIRD-ORDER OBSERVATION)	1904.065
TRIANGULATION STATION "SAGUARO 1959" (NGS Quad 32 111 1, line 107)	1904.231
BM "1899 NOGLS" (USGS) (NGS Quad 32 111 1, line 101) (USGS line 1)	1910.257
BM "1922.51+4036+31.83 1950" (AHD) (NGS Quad 32 111 1, line 107)	1921.959
BM Unstamped (AHD) (NGS Quad 32 111 1, line 101)	1936.439
BM "M 260 1945" (NGS Quad 32 111 1, line 101)	1941.501
BM "N 260 1945" (NGS Quad 32 111 1, line 101) (USGS line 17)	1947.193
RM "NAVISKA NO 1 1960" (NGS Quad 32 111 1, line 107) (THIRD-ORDER OBSERVATION) (Note: NGS published is "NAVISKA <u>2</u> NO 1 1960")	1949.153
RM "NAVISKA NO 2 1960" (NGS Quad 32 111 1, line 107) (THIRD-ORDER OBSERVATION) (Note: NGS published is "NAVISKA <u>2</u> NO 2 1960")	1944.854
TRIANGULATION STATION "NAVISKA 2 1960 1973" (NGS Quad 32 111 1, line 107) (Note: NGS published is "NAVISKA 2 1960")	1947.218
BM "P 260 1945" (NGS Quad 32 111 1, line 101)	1947.940
"T10S R10E S36 1919" (NGS Quad 32 111 1, line 101) (THIRD-ORDER OBSERVATION)	1951.217
BM "1940 NOGLS" (USGS) (NGS Quad 32 111 1, line 101) (USGS line 1)	1951.522

RED ROCK (96)

Arizona

32 111 13
M.D. Cummins, 1977

SUBSIDENCE AREA

Trunk Line

Adjusted Elevations Based on National
Geodetic Vertical Datum of 1929

Book: PV 1006

Latitude 32°30' Longitude 111°15'

- (16) FROM A POINT 2.1 MILES NORTHWEST OF RED ROCK WEST TO NGS TRIANGULATION STATION AIRPORT 38 AT RED ROCK AIRPORT (By M.D. Cummins, 1977; Book: PV 1006)

BM "1832.25+3711+53.00 1950" (AHD) (NGS Quad 32 111 1, line 101) [1977 USGS ELEVATION] (USGS line 15)	1831.521
RM "AIRPORT NO 38 1935 NO 1" (NGS Quad 32 111 1, line 101) (THIRD- ORDER OBSERVATION)	1826.140
RM "AIRPORT NO 38 1935 NO 2" (NGS Quad 32 111 1, line 101) (THIRD- ORDER OBSERVATION)	1825.768
TRIANGULATION STATION "AIRPORT NO 38 1935" (NGS Quad 32 111 1, line 101)	1826.309

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32 111 13

RED ROCK (96) Arizona M.D. Cummins, 1977
 SUBSIDENCE AREA
 Third Order Adjusted Elevations Based on National
 Geodetic Vertical Datum of 1929
 Book: PV 1006
 Latitude 32°30' Longitude 111°15'

- (17) FROM A POINT ABOUT 5.5 MILES SOUTHEAST OF RED ROCK WEST THENCE SOUTHWEST THENCE NORTHWEST TO A POINT ABOUT 6.1 MILES WEST OF RED ROCK (By M.D. Cummins, 1977; Book: PV 1006)

BM "N 260 1945" (NGS Quad 32 111 1, line 101)[1977 USGS ELEVATION] 1947.193
 (USGS line 15)

Jct. of I-Hwy. 10 and Marana Park Rd. (overpass bridge), 0.45 mi W. of along Marana Park Rd.; 96 ft N. of centerline of rd., 4.5 ft S. of fence line, 2 ft SW. of witness post; set on concrete post projecting 0.4 ft; NGS brass disk stamped "K 260 1945" 1924.487

Jct. of I-Hwy. 10 and Marana Park Blvd. (overpass bridge), 1.55 mi W. of along Marana Park Rd.; 0.55 mi E. of entrance gate to Marana Air Park, at T-rd. N. to houses; 73 ft S. of and about level with centerline of rd., 60 ft W. of projected centerline (S.) of T-rd. N., 1 ft E. of witness post; set on concrete post projecting 0.4 ft; NGS brass disk stamped "J 260 1945" 1902.418

BM "H 260 1945" (NGS Quad 32 111 1, line 101) 1891.288

BM "G 260 1945" (NGS Quad 32 111 1, line 101) 1882.215

BM PACIFIC (USE) stamped "PACIFIC 1/2 USED" (NGS Quad 32 111 1, line 101) 1857.481

BM "F 260 1945" (NGS Quad 32 111 1, line 101) 1876.168

"1/4 SEC 32 1922" (GLO) 1878.480

"T10S R10E S32 T11S R10E S5 S4 1914" (GLO) 1877.098

BM "X 292 1951" (NGS Quad 32 111 2, line 104) 1857.952

"T10S R10E S36 T11S R9E S1 T11S R10E S6 1911" (GLO) (NGS Quad 32 111 2, line 104) 1858.498

"S1/4 S36 1922" (GLO) 1858.356

BM "D 140 1935" (NGS Quad 32 111 1, line 104) 1863.043

BM "Y 292 1951" (NGS Quad 32 111 1, line 104) 1844.371

BM "E 140 1935" (NGS Quad 32 111 1, line 104) 1828.707

BM "S 89 1935" (NGS Quad 32 111 1, line 103) (USGS line 13) (Line 7) 1798.577

RED ROCK (96)

Arizona

32 111 13

M.D. Cummins, 1977

SUBSIDENCE AREA

Trunk Line

Adjusted Elevations Based on National
Geodetic Vertical Datum of 1929

Book: PV 1006

Latitude 32°30' Longitude 111°15'

- (18) FROM THE NORTHEAST EDGE OF ELOY QUADRANGLE (97) EAST THENCE NORTH INTO
THE SOUTHWEST EDGE OF PICACHO RESERVOIR QUADRANGLE (120) (By M.D. Cummins,
1977; Book: PV 1006)

Picacho, 1.0 mi NW. of District 33 Elementary School along S.P. RR.,
thence 0.7 mi N. along S.P. RR., thence 0.75 mi E. along Milligan
Rd.; at X-rds.; 33 ft N. of and about level with centerline of rd.,
22 ft W. of centerline of X-ing. rd., 1 ft N. of power pole with
one guy wire N., 3 ft E. of southeast corner of concrete canal;
set on 5/8-inch copper-coated rod encased in 6-inch drainpipe;
standard tablet stamped "10 MDC 1977 1590"

1590.540

Picacho, 1.0 mi NW. of District 33 Elementary School along S.P. RR.,
thence 0.7 mi N. along S.P. RR., thence 1.75 mi E. along Milligan
Rd.; at X-rds., near well and pump; 81 ft S. of and about 2 ft
higher than centerline of rd., 35 ft E. of centerline of X-ing. rd.,
1 ft NW. of power pole with three transformers; set on 5/8-inch
copper-coated rod encased in 6-inch drainpipe; standard tablet
stamped "11 MDC 1977 1605"

1605.052

Picacho, 1.0 mi NW. of District 33 Elementary School along S.P. RR.,
thence 0.7 mi N. along S.P. RR., thence 2.75 mi E. along Milligan
Rd.; at X-rds. with rd. E. going through locked gate, near pump and
well; 67 ft W. of centerline of X-ing. rd., 57 ft N. of centerline
of rd., 1.5 ft W. of south support pole of platform for three
transformers; set on 5/8-inch copper-coated rod encased in 6-inch
drainpipe; standard tablet stamped "12 MDC 1977 1616"

1616.138

Picacho, 1.0 mi NW. of District 33 Elementary School along S.P. RR.,
thence 0.7 mi N. along S.P. RR., thence 2.75 mi E. along Milligan
Rd., thence 1.0 mi N. along bladed rd.; 50 ft N. and 30 ft W. of
T-rd. W.; on concrete headgate; rod held on circular part of number
"6" in scribed date "1/7/63" (USGS line 11)

1599.108

BM "26 DM 1963 1609" (USGS line 11)

1606.462

FILE COPY

OCT 5 1977 dlh

RED ROCK (96)

Arizona

32 111 13

M.D. Cummins, 1977

SUBSIDENCE AREA

Checked Spur

Adjusted Elevations Based on National
Geodetic Vertical Datum of 1929

Book: PV 1006

Latitude 32°30' Longitude 111°15'

- (19) FROM A POINT 7.0 MILES SOUTHEAST OF PICACHO WEST 0.90 MILE TO BASE OF MOUNTAIN AND BEDROCK TIE POINT (By M.D. Cummins, 1977; Book: PV 1006)

BM "L 279" (AHD) (NGS Quad 32 111 1, line 101) (USGS line 12,15)
[1977 USGS ELEVATION]

1775.119

Jct. I-Hwy. 10 and Picacho Peak Rd., 0.35 mi SW. of along Picacho Peak Rd., across country toward rock cliff with small cave about halfway up face; 0.2 mi SW. of Shell gasoline station; about 100 ft N. of small cave in cliff face, 70 ft SW. of fence line, 11 ft SW. of and about 7 ft higher than smaller cave, about 4 ft higher than surrounding ground; cemented on top of flat ledge on northwest face of rock cliff; standard tablet stamped "A 6 MDC 1977"

1912.850

Jct. I-Hwy. 10 and Picacho Peak Rd., 0.35 mi SW. of along Picacho Peak Rd., across country toward rock cliff with small cave about halfway up face; 0.2 mi SW. of Shell gasoline station; about in line with north property line of "THE TRADING POST"; 30 ft E. of and about 30 ft lower than small cave in cliff face, 28 ft SW. of fence line, about 3.5 ft higher than base of cliff; cemented in top of flat ledge on east face of cliff; standard tablet stamped "6 MDC 1977"

1903.913

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OCT 5 1977 dlh

RED ROCK (96)

Arizona

32 111 13
M.D. Cummins, 1977

SUBSIDENCE AREA

Checked Spur

Adjusted Elevations Based on National
Geodetic Vertical Datum of 1929

Book: PV 1006

Latitude 32°30' Longitude 111°15'

- (20) FROM A POINT ABOUT 6.0 MILES SOUTHWEST OF RED ROCK NORTHWEST TO BASE OF MOUNTAIN AND BEDROCK TIE POINT (By M.D. Cummins, 1977; Book: PV 1006)

BM "ADS 25 1946 1784" (USGS) (NGS Quad 32 111 1, line 104) (USGS line 10,13) [1977 USGS ELEVATION]

1784.348

Red Rock, 0.2 mi SE. of station along S.P. RR., thence 6.4 mi SW. across freeway and along paved and graded rd., thence 0.7 mi NW. along graded rd., thence 0.15 mi S. along bladed rd., thence 0.35 mi S. along fence line, thence 0.25 mi due W. toward large rock outcrop at northeast corner of rounded hill; 20 ft W. of and 10 ft higher than base of outcropping sidehill; cemented in top of flat ledge on outcrop; standard tablet stamped "7 MDC 1977"

1848.018

Red Rock, 0.2 mi SE. of station along S.P. RR., thence 6.4 mi SW. across freeway and along paved and bladed rd., thence 0.7 mi NW. along bladed rd., thence 0.15 mi S. along bladed rd., thence 0.35 mi S. along fence line, thence 0.25 mi due W. toward large rock outcrop at northeast corner of rounded hill; 25 ft W. of and 17 ft higher than base of outcropping sidehill; cemented in top of flat ledge on outcrop; standard tablet stamped "A 7 MDC 1977"

1854.927

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