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Arizona Geological Survey
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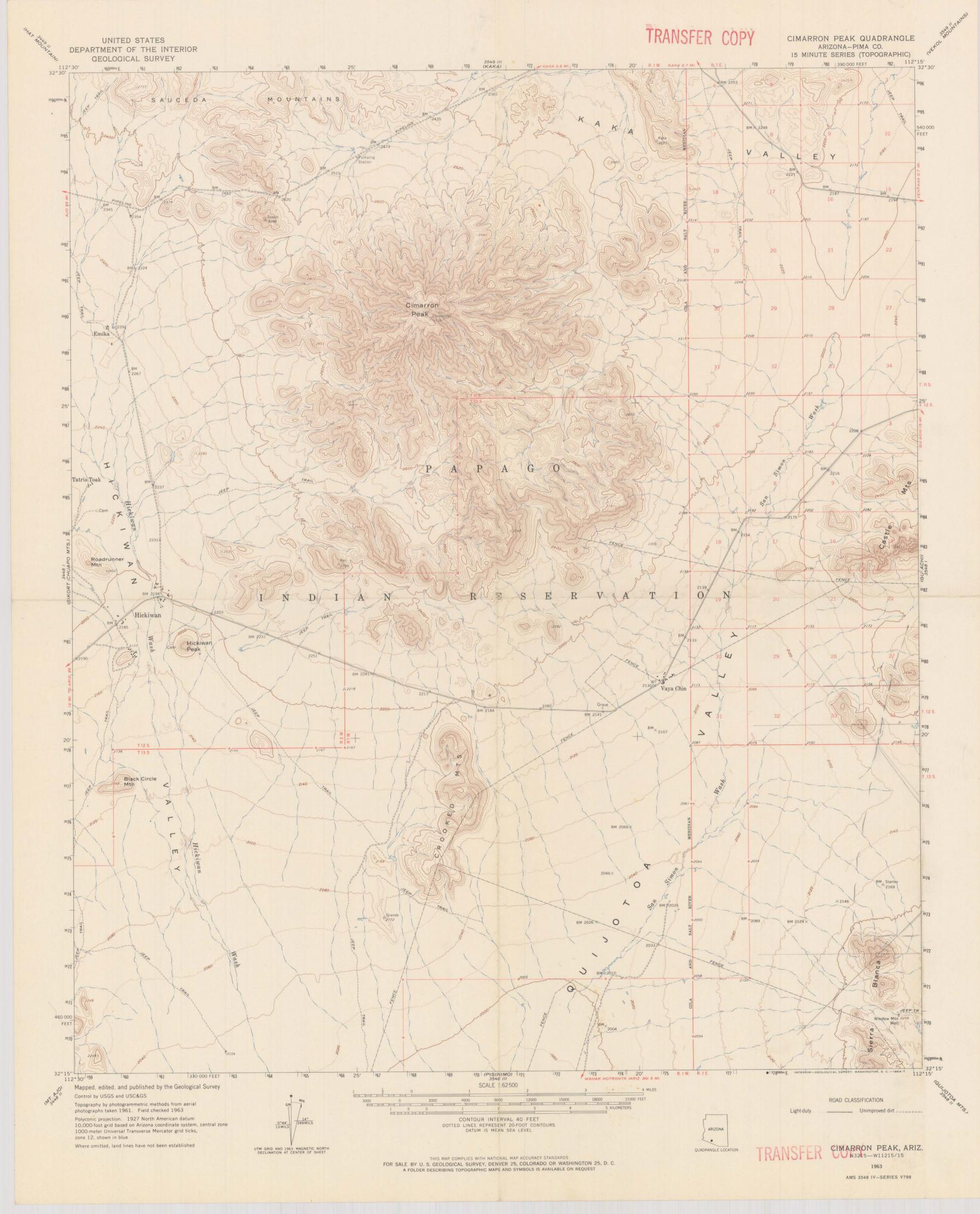
#### CONSTRAINTS STATEMENT

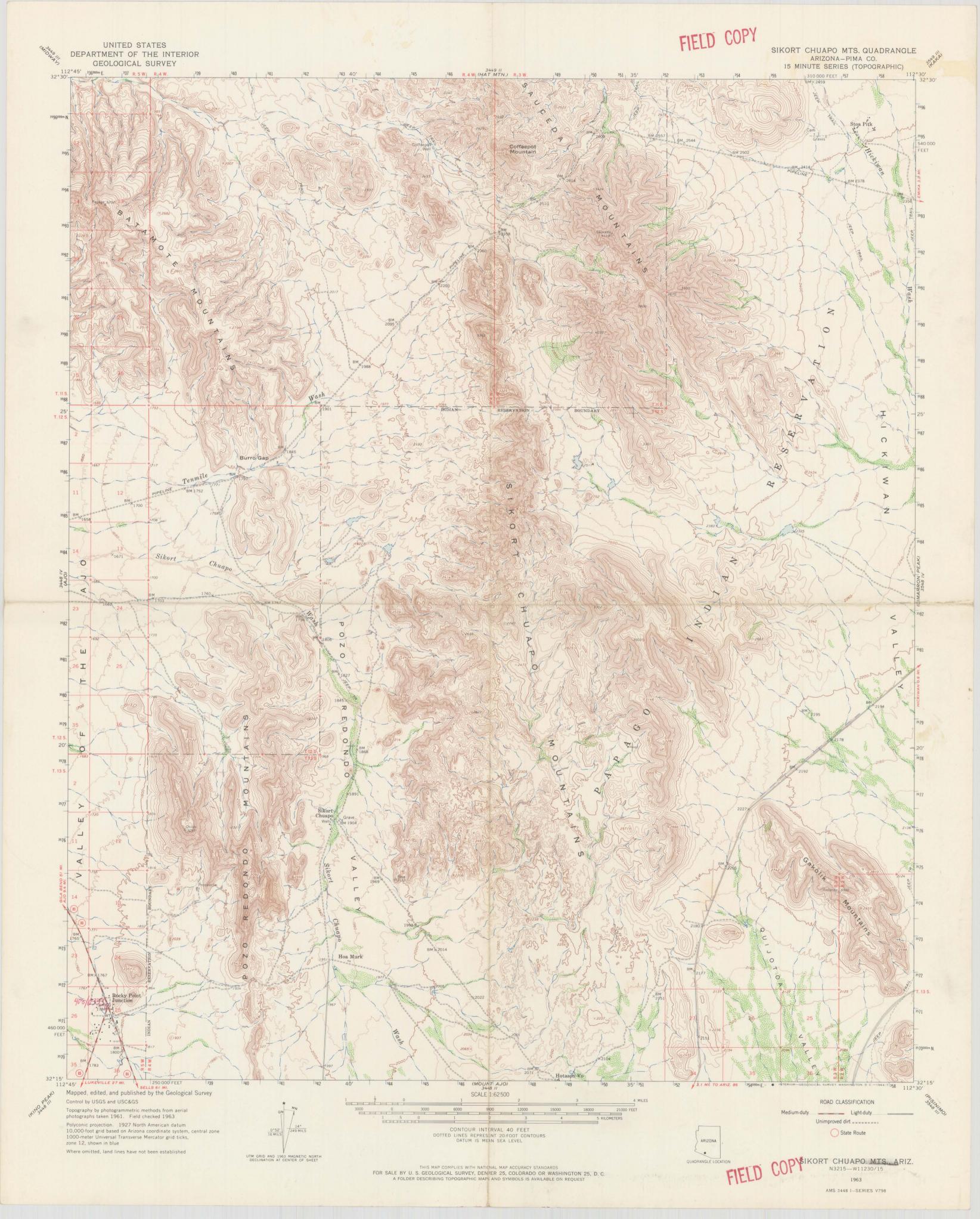
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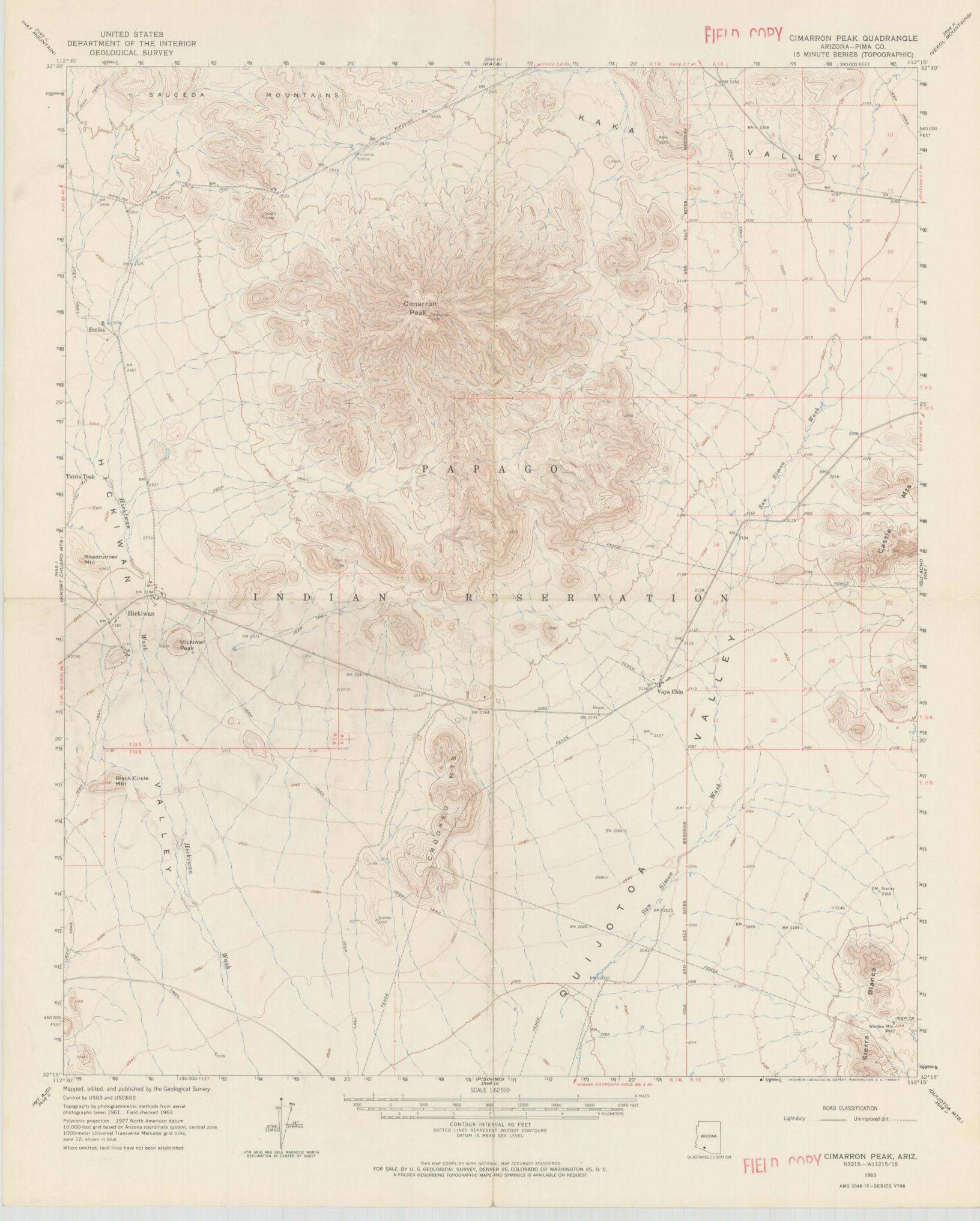
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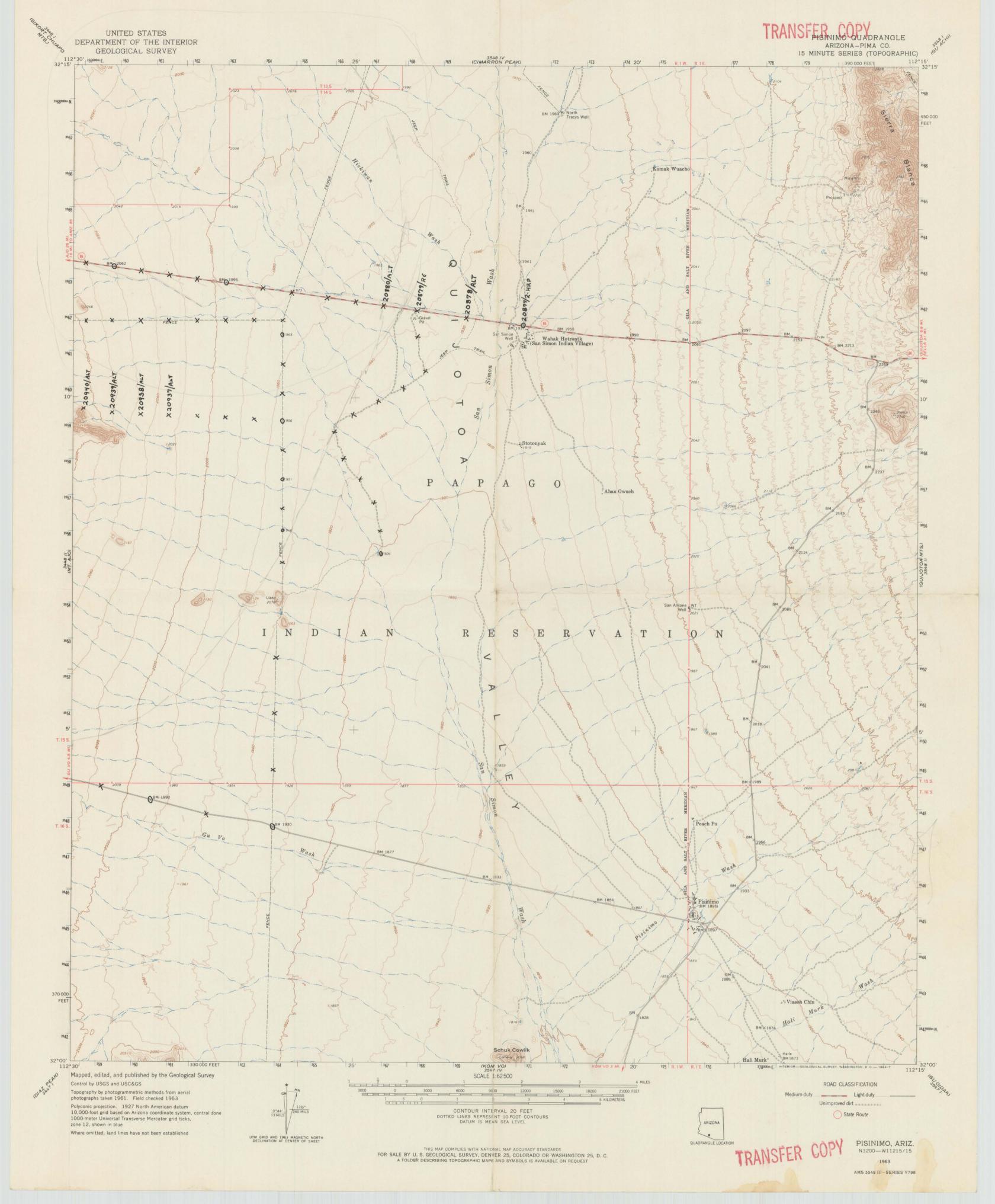
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#### THE PAPAGO TRIBE

PAPAGO TRIBAL COUNCIL Sells, Arizona

MINERAL PROSPECTING PERMIT EXTENSION

Bear Creek Mining Company 1826 Kinnecold Blog to East South Temple 34 4 he lity What

Gentlemen:

On the 15th day of February, 1966, you were issued a Prospecting Permit on the Gila Bend, San Xavier and Papago Reservations for a period of four months.

This is to advise that you are hereby granted an extension of this permit under the terms and conditions contained therein, for an additional period of \_\_\_\_\_ month (s), provided however, that you will pay to the Papago Tribe a fee of \$500.00 per month for each additional month such extension may be required by you. This selention is effective

June 15, 1966.

PAPAGO TRIBAL COUNCIL

Director of Mines - Papago Tribe

Tribal Chairman

APPROVED AS TO FORM:

EDWARD B. BERGER, Tribal Attorney

Corm 5-155 (October 1957)

#### UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF INDIAN AFFAIRS

Contract	No.	
Permit.	No-	H54-5-66

Papag	0	Agency
Sells,	Arizona	
 	8 15	ı

#### MINERAL PROSPECTING PERMIT (Nonexclusive and Nonoptional)

THIS AGREEME	NT, made and entered into this	fifteenth day of
		PAPAGO TRIBE
		address is Sells, Arizona
		, and
		, whose address
is 1826 Kennecott B hereinafter called Perr		ake City, Utah, party of the second part,
In consideration o	f the sum ofTen and no/	100 dollars (\$ 10.00 ),
paid to THE PAP covenants, stipulations	PAGO TRIBE , the rece	ipt of which is hereby acknowledged, and the l, it is agreed:
1. Permitter here	by grants the Permittee, subject to li	imitations hereinafter stated, a nonexclusive
right for a term beginn	ning with the date of approval of this p	permit and ending four months
from the date h	nereof,	,
for the sole purpose of	prospecting for minerals other than o	oil and gas upon the following described lands
of Permitter, subject t	o valid existing rights, consisting of $oldsymbol{2}$	2,700,000 acres, more or less, to wit:
within the bour	ndaries of the Gila Bend,	San Xavier and Papago
		ng those areas that have been
000000000000000000000000000000000000000		patented mining claims, validate
••••	and areas presently under	

- 2. This permit is granted upon the following express terms, covenants, and conditions:
- (a) PREFERENCE.—This permit does not grant an exclusive right to prospect or give any preference right to a lease.
- (b) REMOVAL OF ORES.—No ores may be removed from the premises except samples for examination and experimental purposes and the removal of such samples shall be subject to the approval of the Superintendent.

- (c) DISPOSITION OF MERALS AND SURFACE.—The Peratter expressly reserves the right to use, lease, sell, or otherwise dispose of the minerals and the surface of the lands embraced within this permit under existing laws or laws hereafter enacted. Upon such disposition or use, the Permitter reserves the right to withdraw the lands from the permit area.
- (d) DAMAGES.—The Permittee shall conduct all operations authorized in this permit with due regard to preventing unnecessary damages to vegetation, timber, soil, roads, bridges, cattle-guards, fences, and other improvements, including construction, operation, or maintenance of any of the facilities on or connected with this permit which causes damage to the watershed or pollution of the water resources. On termination of operations under this permit, the Permittee shall make provisions for the conservation, repair and protection of the property and leave all of the areas on which the Permittee has worked in a condition that will not be hazardous to life or limb, and will be to the satisfaction of the Superintendent.
- (e) LIABILITY FOR DAMAGE.—The Permittee is liable for any and all damages resulting from its operations under this permit; including injury to the Permitter, the tenants, licensees and surface owners, and for any and all damage to, or destruction of, all property, caused by the Permittee's operations hereunder. The Permittee agrees to save and hold the Permitter and the United States, licensees, and the surface owner or their tenants harmless from all suits for injury or claims for damages to persons and property resulting from the Permittee's operations under this permit.
  - (f) FOREST PROTECTION.—The Permittee agrees:
- (1) Not to cut, destroy, or damage timber without prior authority of the Commissioner of Indian Affairs, or his authorized representative, such authorization to be made only where required in the pursuance of necessary mining operations.
- (2) To pay for all such timber cut, destroyed, or damaged at rates prescribed by the Commissioner of Indian Affairs or his authorized representative, such rates to be determined on the basis of sales of similar timber in the vicinity.
- (3) Not to interfere with the sale or removal of timber from the land covered by this permit by contractors operating under an approved timber sales contract now in effect or which may be entered into during the period of this permit.
- (4) To do all in its power to prevent and suppress forest, brush, or grass fires on the permitted land and in its vicinity, and to require its employees, contractors, subcontractors, and employees of contractors or subcontractors to do likewise. To place its employees, its contractors, subcontractors, and the employees of such contractors or subcontractors employed on the permitted land at the disposal of any authorized officer of the Indian Service for the purpose of suppressing forest, brush, or grass fires with the understanding that the payment for such services shall be made at rates to be determined by the Commissioner of Indian Affairs or his authorized representative, which rates shall not be less than the rates of pay prevailing in the vicinity for services of similar character: *Provided*, That no payment shall be made for services rendered in the suppression of fires for which the Permittee, its employees, contractors, or subcontractors or the employees of such contractors or subcontractors are responsible.
- (5) To pay for the loss of all timber ten (10) inches or more in diameter occasioned by fires for which the permittee, or any of its employees, contractors or subcontractors, or the employees of such contractors or subcontractors are responsible for the start or spread, the assessment of the value of such damages to be determined by the Commissioner of Indian Affairs or his authorized representative on the basis of the value of such timber on sales of similar timber in the vicinity. Also to pay liquidated
- damages of \_Fifty---- dollars (\$ 50.00 ) per acre for all young timber less than ten (10) inches in diameter destroyed by such fires unless a lesser rate of damages shall be approved by the Commissioner of Indian Affairs, and to pay all costs for the suppression of fires for which it, or any of its employees, contractors, or subcontractors, or the employees of such contractors or subcontractors are responsible.

2

- (6) Not to burn rubbish rash, or other flammable materials excit when the consent of the authorized representative of the Commissioner of Indian Affairs, and not to use explosives in such manner as to scatter flammable materials on the surface of the land during the fire season, except as authorized to do so by such representative.
- (g) LIQUOR.—The Permittee agrees not to use or permit to be used any part of the premises for any unlawful purpose; that it will not use or permit to be used any part of the premises for the manufacture, sale, gift, transportation, drinking, or storage of intoxicating liquors or beverages in violation of existing laws relating thereto, and that any violation of this clause by the Permittee or with its knowledge, renders this permit voidable at the option of the Superintendent.
- (h) ASSIGNMENT.—The Permittee agrees not to assign this permit or any interest therein by an operating agreement, an agreement to pay overriding royalty or otherwise, nor to sublet any portion of the permitted premises, except with the approval of the Secretary of the Interior or his authorized representative.
- (i) SURRENDER AND TERMINATION.—The Permittee may, in writing, surrender this permit at any time upon the performance of all the Permittee's obligations hereunder, upon the payment of \$1 and upon a showing satisfactory to the Secretary of the Interior or his authorized representative, that full provision has been made for the conservation and protection of the property. If this permit has been recorded, Permittee shall file a recorded release with its application for surrender.
- (j) REPORTS.—The Permittee shall within 30 days after the termination of this permit furnish the Superintendent detailed and complete written reports of the prospecting done and all information concerning the nature and value of the minerals.
- (k) REGULATIONS.—This permit is granted pursuant to the act of

  and regulation 25 CFR 171, and 30 CFR 231, and must comply with all the laws and regulations applicable to prospecting on Indian lands.

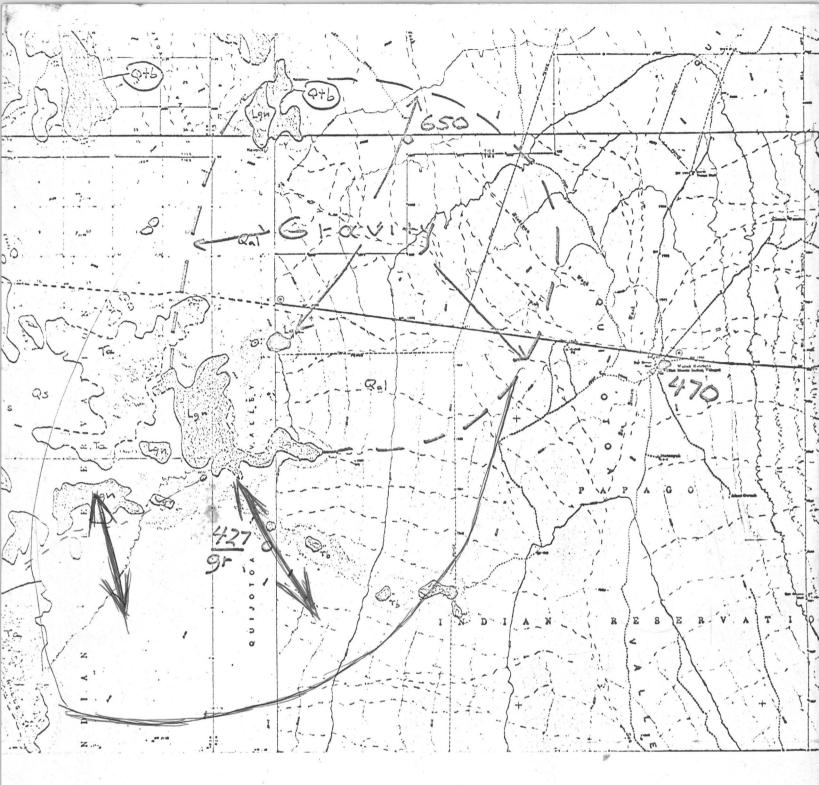
  (l) BOND.—Before this permit becomes effective, Permittee shall furnish to the Superintendent of the Papago Agency,

  Sells, Arizona,

  an acceptable surety bond in the amount of --Two Thousand and no/dollars (\$2,000.00).
- (m) CANCELLATION AND FORFEITURE.—When in the opinion of the Secretary of the Interior or his authorized representative, there has been a violation of any of the terms and conditions of this permit, or the applicable regulations, the Secretary or his authorized representative may at any time after thirty days' notice to the Permittee, specifying the violations, declare this permit void.
- (n) This permit is revocable at the discretion of the General Superintendent of the Papago Agency, Bureau of Indian Affairs, and the Chairman of the Tribal Council.
- (o) This permit is in the nature of a general reconnaissance survey permit and while it includes geological, geophysical, geochemical, studies, sampling, etc., it does not include core drilling.

seals on the day and year first above me	entioned.	
Two witnesses to execution by Permitter:		PAPAGO TRIBE
		<u></u>
P.O		HILL ROOM TO THE
P.O		
Two witnesses to execution by Permittee:		BEAR CREEK MINING COMPANY  By: Paul ABail
		Paul A. Bailly, President  Attest: Attest Secretary
Datinias Juana		Douglas J. Lootens, Assistant Secretary
P.O. 1874 - 6 12 July Jace 3 12	2 647, Va	tal
Pala Hans		
P.O. 53135, 52400	Lice La, (	<i>(.)</i>
The within permit is	approved	February 14 , 19 66
		Some sources
0		Superintendent, Papago Agency
Date: Jan 6-1966	_	
18/ 12/1 ~	5. GOVERNMENT PRINTING	OFFICE 12-74293-1
Lemon B Strutt	_ \	Chairman Bana Thickel
Consultant Mining Engineer to the Papago Tribal Counc		Chairman, Papago Tribal Council
		oodnozz.
APPROYED AS TO FORM:		
Line of the same	1 7 mm	
EDWARD B. BERGER, Tribal A	ttorney	
2	-	

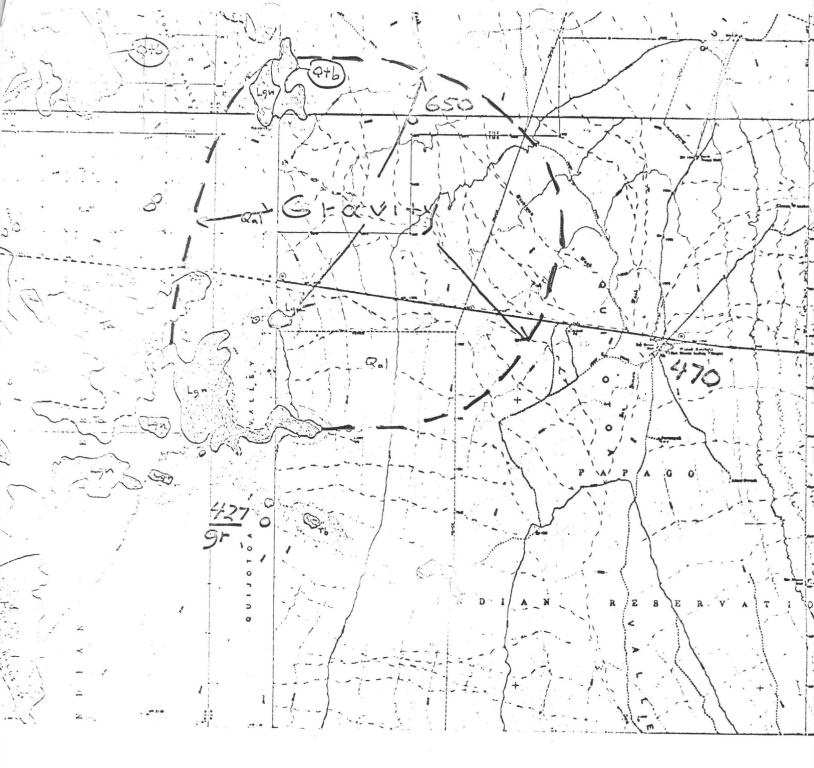
· IN WITNESS WHEREO, the said parties have hereunto subscribed their names and affixed their



post mineral {Qal = alluvium}
Qal = alluvium
Qab = basalt
Ta = andesite
pre mineral = Lgn = qranite queiss
650 Well-allin gravel

0 427 well- granite at 427'

GUNSIGHT EAST PEDIMENT (06 12 0648)



post mineral Qal - alluvium Qab - basalt

Ta - andesite

pre mineral - Lgn - granite queiss

0650 Well-all in gravel

0 427 well - granite at 427

GUNSIGHT EAST PEDIMENT (06.12 0648) Between 14894 - 45) Sectors 1-2 (1 m + Density. 5 C Mts. East it Dedrock.

INTER-OFFICE MEMO	DATE: 6/2/66
TO: Phil Deverter	FROM: Claver market gran
SUBJECT: Cunsisht East	and any.
Phil	
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above and you will	a request for the
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I USG5 Topis  mt ajo 15'	
sikal change mi	to 15
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Cimanon To Reak	15'
I 4565 3rd order level	Control Quijoton # 2 76 (Cemanon Plate) - Paparo Solder
Papaza Solder - 56 Pasinimo	76 (Cemmon Reap) - Pagago Solcher
57 mf. ajs 7	7 Sikort changes mits.
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15 mel order	321122 1st order - vehal vaile Solder
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most of this material	you should have in
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as noted. Lick up density	
	Best uzands
COPIES TO:	Clavory KCC - GP

KENNECOTT COPPER CORPORATION -- EXPLORATION SERVICES -- GEOPHYSICS DIVISION

# VERTICAL CONTROL DATA

Coast and Geodetic Survey

#### LINE 101

The original field work
(L-945) from the north border of
the quadrangle to 11 miles southekst of Ajo was done second-order
in 1933 by a party supervised by
G.R. Fish. Second-order leveling
(L-14473) was also done from about
20 miles southeast of Ajo to the
end of the quadrangle in March 1952
by a party supervised by J.H.
Plaggmier. Both lines were completely releveled and united by
first-order leveling (L-15059) in
November and December 1953 by a
party supervised by F.W.Richards.

These elevations are based on supplementary adjustment of 1958

	w	Н	V 332	w	1326.61 (AHD)		-	Bench Mark
	8.6	1.1	415.914	8	4.0	:	(Meters)	Adjusted
	406.46	381.61	1364-545	341.31	325.67		(Feet)	Elevation
m c.	-		н	0	_	ы	PT.	

#### END OF THE SPUR LINE

KX

333

436.567

1432.304

SPUR LINE TO AJO AIRPORT

B 333 R 14 C 333 R 36	P 3332
usgs)	usgs)
533.858 533.858 533.858 533.858 533.508	433.002 437.391 448.553 462.450 475.272
1619.839 1640.085 1712.457 1751.499 1750.351	1420.607 1435.007 1471.628 1517.221 1559.288

R 16 (USGS) G 307 D-109 H 307 R 17 (USGS)

No elev.available 541.075 1775.177 548.744 1800.338 563.295 1848.077 552.635 1813.103

Bench Mark

Adjusted Elevation (Meters) (Feet)

(Continued)

	- MOR	THORH.	- M - L M	HPRNJ	ㅋ요디뉙ㅋ	DUS DUS	17 17 19	# 961 61 61 61	Ве
	333 1 333 1 23 (USGS) 1 23 (USGS)	805.58 (USDA) 33 27 S 26(GLO) 821.38 (USDA) 825.28 (USDA)	786.63 (USDA) 788.57 (USDA) 24 (USGS) 807.20 (USDA)	333 355 (USGS)	27 (USGS) 333 36 36 333 26 (USGS)	I 333 I 36 DUST RM 2 DUST RM 1 DUST	714.03 (AHD) 73+75 (AHD) 91+75 (AHD) 333 28 (USGS)	41 (AHD) +48 (AHD) +40 (AHD) 5+06 (AHD) 307	Bench Mark
	555.532 552.110 552.670 552.391	549.877 551.766 552.789 554.862 555.884	542.212 544.682 549.567 550.369	543.338 548.371 541.325 531.281 533.809	531.052 537.896 538.497 543.844 548.646	503.271 509.970 519.487 519.492 519.612	522.388 516.206 511.642 501.580 495.736	532.441 522.469 521.223 518.204 519.546	Adjusted (Meters)
	1822.608 1811.381 1813.218 1812.303	1804.055 1810.252 1813.609 1820.410 1823.763	1778.907 1785.072 1787.011 1803.038 1805.669	1782.601 1799.114 1775.997 1743.044 1751.338	1742.293 1764.747 1766.715 1784.26 <b>2</b> 1800.016	1651.148 1673.127 1704.350 1704.367 1704.760	1713.868 1693.586 1678.612 1645.600 1626.427	1746.850 1714.134 1710.046 1700.141 1704.544	Elevation (Feet)
-									

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2

[Continued]

The field work done in February are a party supervised Some of the bench might be a party supervised for the bench might be a party supervised was done in the villenry Gray Ranch in a party supervised	L. (Seco	X 110 Z 309 X 110	1937.80 (USDA) W 309 U 110 X 309 V 110	V 309 T 110 1921.19 (USDA) 1924.27 (USDA) 1936.48 (USDA)	Bench Mark
The field work (L-1447) in February and March ys supervised by J.R.P. of the bench marks were ya party supervised rish. Check leveling one in the vicinity of Gray Ranch in January ys supervised by D.Mon	LINE 102 Second-order)	565.772 564.360 562.216	590.156 598.643 605.570 589.708 565.392	555.629 570.828 585.092 589.754	Adjusted (Meters)
( L-14473) was and March 1952 by J.R.Plaggmier. marks were set in pervised by leveling (L-18615) cinity of the lanuary 1962 by D.Moncevicz.		1858.874 1856.204 1851.571 1844.537	1936.203 1964.048 1986.774 1934.734 1854.957	1822.926 1872.792 1919.589 1922.677 1934.885	Elevation (Feet)
0.375 0.375 0.0375 0.0375 0.375 0.375	K 110 K 109 T 14: (GIO) J 109	Р 307 G 109 Q 307 R 307	и 307 в 109 и 307	J. 307 1739.8 K. 307 R. 18 (USGS) R. 18 RM (USGS)	Bench Mark
420.967 399.389 398.163 378.470 393.218	418.848 411.333 415.522 414.685	461.110 452.771 447.541 453.104 427.245	504.615 495.295 493.316 481.406 470.170	541.034 529.907 527.172 517.010 517.131	Adjusted (Meters)
1381.123 1380.325 1306.306 1241.697 1290.083	1374.170 1349.515 1363.256	1512.825 1485.466 1468.307 1486.555	1655.558 1624.980 1618.488 1579.413	1775.042 1738.537 1729.563 1696.224 1696.621	Elevation (Feet)

#### (Second-order)

These elevations are based on a supplementary adjustment of 1958. Elevations for the check leveling are based on a supplementary adjustment of 1962.

The field work (L-14473) was done in February and March 1952 by a party supervised by J.R.Plaggmier. Some of the bench marks were set in 1935 by a party supervised by G.R.Fish. These elevations are based on a supplementary adjustment of 1958.

Bench Mark 611.744 Adjusted Elevation (Meters) (Feet) 2007.030 2053.959 2104.471

HOZ

309

PAGE NO.

321123

LATITUDE 32°00' to 32°30' LONGITUDE 112°30' to 113°00' DIAGRAM NI 12-10 AJO

# VERTICAL CONTROL DATA

PAGE NO.

d

5-5		Elevation (Feet)	1658.218 1699.885 1752.391 1797.063	1901.072 1987.522 2095.038 2199.956 2360.363	2358.128 2510.392 2814.404 2609.089 2557.557	2544.490 2502.387 2413.706 2379.460	>60.665			
to 32°30' to 113°00' AJO	LINE 107 (Continued)	Adjusted (Meters)	505.426 518.126 534.130 547.746 562.427	579.448 605.798 638.569 670.548 719.440	718.759 765.169 857.832 795.252	775-762-7752-7752-7725-699	50.001			
QUAD 321123 ARIZ. LATITUDE 32°00' LONGITUDE 112°30' DIAGRAM NI 12-10'	100)	Bench Mark	жчнож 336 жчнож жчнож	T 11 S (USGLOS) L 336 M 336 N 336 P 336	\$ 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	V 336 W 336 X 336 50 GWM (USGS)	020			
		.2) was party	based on of 1962.	2210.773 2221.846 2210.566 2251.137	2229.418 2213.788 2203.637 2100.6446	2186.761 2190.432 2173.286 2164.602		9) was party	based on of 1962.	Elevation (Feet)
	LINE 106 (Second-order)	The field work (L-18612) in November 1961 by a pa	n. Schilly tions are adjustment Adjusted	(Meters) 673.845 677.220 673.782 686.148	679.528 674.764 671.670 667.670	666.526 667.645 662.419 659.772	LINE 107 (Second-order)	The field work (L-18609) was in November 1961 by a party vised by M.H. Schilly.	These elevations are b supplementary adjustment	Adjusted (Meters)
tic Survey	. )	The field done in Novembe	These eleva a supplementary Bench Wark	4 H O O I		റു നനനന	,	The fie done in Nove supervised b	These e a supplement	Bench Mark
by the Coast and Geodetic searevel DATUM OF	n 2	Elevation (Feet)	1558.268 1588.442 1613.724 1636.250 1580.204	1585.407 1534.275 1458.619 1457.277 1433.353		a done	supe ased of 19	Elevation (Feet)	1882.253	available
	LINE 104 (Continued)	Adjusted (Meters)	474.961 484.158 491.864 498.730 481.647	483.233 467.648 444.588 444.179	1 1	LINE 105 (Second-order)	a part	Adjusted (Meters)	573.000 593.083	No elev.
	<u>1</u>	Bench Mark	Z 308	F 1100 F		LINE (Second-	in November 1933 by a party vised by G.R. Fish. These elevations are a supplementary adjustment	Bench Mark	V 36 I. 309	I 110
ED BY: COMMERCE SURVEY		Elevation (Feet)	available 2145.176 2247.066 2222.171 2128.952	2092.473 2090.232 2005.856 1934.911 1884.717	1839.596 1766.994 1722.205 1674.314 1640.246	1595.364 1593.497 1557.795 1520.660 1495.765	1494.902 1456.660 1420.388 1397.917		473) was n 1952 by	ere set in d by
PRINT I OF ETIC	LINE 103 (Continued)	Adjusted (Meters)	No elev. 653.851 684.907 677.319 648.906	637.787 637.104 611.386 589.762 574.463	560.710 538.581 524.929 510.332 499.948	486.268 485.699 474.817 463.498 455.910	455.647 443.991 432.935 426.086 419.443	LINE 104 (Second-order)	work (L-14	rsed by J.n nch marks w y supervise
PUBLISHED AND U.S. DEPARTWEN COAST AND GEOD WASHINGTON D.C	74	Bench Mark	M 110 S 309 N 110 P 110 R 309	& 20 309 8 110 8 110 8 110	K 309 E 309 F 309 G 309 R 22 (USGS)	W 308 1595.1 (USGS) X 308 Y 308 R 21 RM (USGS)	R 21 (USGS) H 309 H 110 J 309° J 110	(3e	The field work (L-14473) was done in February and March 1952 by	a party supervised by J. Traggamer Some of the bench marks were set in 1935 by a party supervised by

| Elevation (Feet)

Adjusted (Meters)

1680.823 1625.207 1580.850 1594.140 1626.178

512.316 495.364 485.844 495.660

9 9 9 9 9 M M M M M M M M M M HOURH

605.693 1987.178 620.421 2035.498 Destroyed 655.232 2149.776 663.128 2175.612 647.975 2125.898

309 36 37 37 BANKKE

These elevations are based on a supplementary adjustment of 1958.

Adjusted Elevation (Meters) (Feet)

Bench Mark

1496.529 1484.787 1502.166 1528.734 1556.017

456.143 452.564 457.861 465.959 474.275

G 110 B 309 C 309 I 100

The field work (L-14473) was done in February and March 1952 by a party supervised by J.R.Plaggmier. Some of the bench marks were set in 1935 by a party supervised by G.R. Fish.

WASHINGTON D.C. COAST AND GEODETIC SURVEY PUBLISHED AND PRINTED BY: U.S. DEPARTMENT OF COMMERCE

# VERTICAL CONTROL DATA

Coast and Geodetic Survey

QUAD

321123 PAGE NO. 1

LATITUDE 32°00' to 32°30' LONGITUDE 112°30' to 113°00' DIAGRAM NI 12-10 AJO

DESCRIPTION OF BENCH MARK

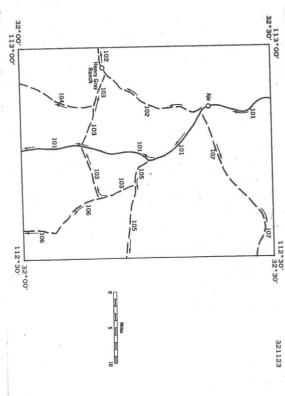
County Pima County Pime

Nearest town

Detailed description Character of mark Established by

Distance and direction from nearest town 8,2 miles north

the station at Ajo, 10 poles south of milepole 35, at the crossing of a graveled road, 120 feet southeast of the center line of the road, 100.6 feet west of the west trail, 12g feet northwest of a telephone pole, 2.0 feet north of a witness post, 1g feet lower than the track, and set in the top of a commete post projecting 0.3 foot above the ground. Erass dick Stamping V 332 1953 U. S. Coast and Geodetic Survey S.2 miles north along the Tucson, Cornelia & Gila Bend relivosa from



DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY FORM 685 A

RECOVERY NOTE, BENCH MARK

Distance and direction from nearest town 9.8 miles north Designation 1326.61 (AHD) State Arizona County Pima

County

484 + 80.8

Established by Arizona Highway Department

Detailed description bridge over a large wash, in the top of the southeast concrete curb, 12.6 feet southeast of the center line of the highway, 16.0 feet northeast of the southwest end of the curb, and about & foot higher than the highway. ed description 9.8 miles north along the Tucson, Cornelia & Gila Bend reliroad from the station at Ajo, 0.2 mile north of milepole 34, 347 feet northwest of the center of a large wooden reliroad bridge (No. 339), at a State Highway 85 concrete

#### DESCRIPTION OF BENCH MARK

Character of mark Nearest town Bronze disk

Stamping1326.61 1938

N

DEPARTMENT OF COMMERCE U. S. COAST AND GRODETIC SURVEY FORM 685 A

RECOVERY NOTE, BENCH MARK

County Pina

Designation # 36

Nearest town Ajo

Distance and direction from nearest town 9.1 miles north

Character of mark Bronze disk

Nov. 1953 Character of mark

Stamping M 36 1933 1341.500

Present condition Established by U. S. Coast and Geodetic Survey 9.1 miles north along the Tucson, Cornelia & Gila Beni railroad from 000g

Detailed report west of the center of the junction of 2 washes, 18 feet west of the west edge of the wash leading southwest, 1.8 feet north of a witness post, about it feet lower than the track, and set in the top of a contrate post projecting 1.1 feet above the station at Ajo, 13 poles south of milepole 34, 0.1 mile east of State Highway 85, 204.0 feet west of the west rail, 150 feet west of a telephone pole, 100 feet

the ground.

## DESCRIPTION OF BENCH MARK

Detailed report

the station at Ajo, 54g feet northeast of milepole 36, 0.1 mile northwest of wooden bridge 361, 41.2 feet southwest of the southwest rail, 1.4 feet north of a witness post, about level with the track, and set in the top of a concrete post projecting

7.6 miles north along the Tucson, Cornelia & Gila Bend railroad from

0.4 foot above the ground.

Present condition Established by

000d

U. S. Geological Survey

Character of mark Bronze disk

Nearest town Designation

Ajo

County Pina State

Stamping R 12 1950

Nov. 1953

Ari zons

County Pina

N

Distance and direction from nearest town 7.6 miles north

R 12 (USGS)

Designation Character of mark Distance and direction from nearest town 6.6 miles north Nearest town Brass disk Ajo County Arizona Pima County Stamping # 332 1953 Pine

Established by U. S. Coast and Geodetic Survey

Detailed description 6.6 miles north along the Tucson, Cornelia & Gila Bend relired from the station at Ajo, 349 fest southeast of the center of a cettle guard at the north entrance to Ajo Airport, at the crossing of a pared road, 98 feet southwest of and across the road from milepole 37, 69½ feet southwest of the center line of the road, 56.0 feet west of the center of the southwest end of a 36-inch corrugated metal pipe cultert, 3.5 feet north of a witness post, about 1½ feet lower than the road, and set in the top of a concrete post projecting 0.3 foot above the ground.

#### SPUR LINE TO AJO AIRPORT

#### DESCRIPTION OF BENCH MARK

Distance and direction from nearest town 7.2 miles north Nearest town Brass disk AJO Pim Arizona County Pime

Stamping X 552 1953

Detailed description 6,6 miles north along the Tucson, Cornelia & Gila Bend reliroed from Established by the station et Ajo, thence 0.6 mile southwest cross-country through Ajo Afrort, at the control towar, 54.5 feet north of the northeest corner of the Bonanza Airlines building, 11.0 feet southeast of the southeast corner of the concrete base of the towar steps, 2.5 feet south of the southeast leg of the tower, about level with the concrete apron, and set in the top of a concrete post projecting 0.5 foot above the ground. U. S. Coast and Geodetic Survey

JANDARY 1963

PUBLISHED AND PRINTED BY: U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

WASHINGTON D.C.

VERTICAL CONTROL DATA

Coast and Geodetic Survey SEA-LEVEL DATUM OF 1929

N PAGE NO.

QUAD 321123

LATITUDE 32°00' to 32°30' LONGITUDE 112°30' to 113°00' DIAGRAM NI 12-10 AJO

## DESCRIPTION OF BENCH MARK

Stamping Y 332 1953 County Pima Arizona Nearest town Ajo County Pime Distance and direction from nearest town 7.3 miles north Brass disk U. S. Coest and Geodetic Survey State Established by

Detailed description 6.6 miles north along the Thuson, Cornelia & Gile Bend railroad from the station at Ajo, thence 0.7 mile southwest cross-country through Ajo Airport, bl.5 mile southeast of the control tower, at the south [Ed Mills] henger, 80.5 feet northeast of the northeast edge of the concrete apron, 4.8 feet southwest of the sest corner of the hangar, about level with the apron, and set in the top of a congrete post projecting 0.1 foot above the ground.

Detailed description 3.8 miles north along the Tauson, Cornelia & Gila Bend realized from the station at Ajo, 0.2 mile (5 poles) north of milepole 40, 57.6 feet east of the east rail, 25% feet east of the center line of a dirt road, 22 feet was tof the most easterly one of two 20-inch water pipe lines, 6 feet south of power line pole 75, in line with a row of poles, 2.0 feet north of a witness post, about 1 foot lower than the track, and set in the top of a concrete post projecting 0.4 foot

Stamping A 333 1953

County Pins

Artzona

State

Nearest town Ajo County Pima Distance and direction from nearest town 3.8 miles north Character of mark Brass &18k
Established by U. S. Coast and Geodetic Surmey

DESCRIPTION OF BENCH MARK

END OF THE SPUR

RECOVERY NOTE, BENCH MARK DEPARTMENT OF COMMERCE U. S. COAST AND GRODETIC SURVEY FORM 685 A.

Arf zone

Designation

Distance and direction from nearest town 6.1 miles north U. S. Coast and Geodetic Survey Character of mark Bronze disk Established by Nearest town

Stamping N 36 1933 1420.785

Nov. 1953

County Pima

Present condition Good

tailed report 6.1 miles north along the Tucson, Cornelia & Gila Bend railroad from the station at Ajo, 0.3 mile northwest of the water tank at Childs, in the fork of a T' formed by 2 small washes, 97.3 feet southwest of the southwest rail, 70 feet any orthwest of a telephone pole, 94% feet east of the center of the north-south wash, 24% feet southwest of the center line of the northwest-southeast wash, 2.2 feet north of a witness post, about 2 feet lower than the track, and set in the top of a concrete post projecting 0.9 foot above the ground.

DESCRIPTION OF BENCH MARK

County Pima

Ari zona Distance and direction from nearest town 5.5 miles north PIB County State

Stamping Z 332 1953 Character of mark Brass disk Established by U. S. Coest and Geodetic Survey

Detailed description 5.5 miles morth along the Tucson, Cornella & Gils Bend ralized from the station at Ajo, 0.5 mile southeast of the water tank at Childs, 0.1 mile southeast of milesonesing of a previous frading to the Ajo Alizort, 99½ feet mortheast of the corner line of the road, 74.4 feet wast of the west rail, 4½ feet south of a telephone pole, 2.4 feet north of a witness post, about 3 feet lower than the road, and set in the top of a concrete post projecting 0.3 foot

DEPARTMENT OF COMMERCE U. S. Coast and Geoberic Survey Form 685A

RECOVERY NOTE, BENCH MARK

Distance and direction from nearest town 4.7 miles north County Pima State U. S. Geological Survey R 13 (USGS) Character of mark Bronze disk Nearest town Designation

Stamping R 13 1930

County Prina

the station at Ajo, 0.1 mile north of and across the track from milegola 39, 159 feet southeast of and across the track from a 4.70th-diameter metal 150, 58.0 feet cutheast of and across the track from a 4.70th-diameter metal 150, 58.0 feet southeast of a 3714710N 1 MILE 150, 26 feet est of the center ine of a dirt road, 9\$ feet south of power line pole 31, in line with a row of poles, 1.2 feet north of a witness post, about 1\$ feet lower than the track, and set in the top of a concrete post projecting 0.2 feet short the ground. Established by U.S. Present condition Good Detailed report

RECOVERY NOTE, BENCH MARK DEPARTMENT OF COMMERCE U. S. COAST AND GRODERIC SURVEY FORM 685A

above the ground.

State Arizona Distance and direction from nearest town 3.1 miles north P 36 Ajo

Nearest town Designation

Character of mark Bronze disk Established by U. S. Coast and Geodetic Survey

Present condition Good

the station at Ajo, 13½ poles south of milepole 40, 58½ feet south of power line the station at Ajo, 13½ poles south of milepole 40, 58½ feet south of power line pole 53, 55.0 feet east of the east rail, 35 feet east of the center line of a dirt road, 22 feet wast of the conter line of the most easterly one of two 20-inch water pipe lines, 2.0 feet west of a witness post, about 1 foot lower than the track, and set in the top of a concrete post projecting 0.9 foot above the ground.

DESCRIPTION OF BENCH MARK

Stamping B 333 1953 County Pima Arizona Brass disk U. S. Coast and Geodetic Survey Nearest town Ajo County Pime Distance and direction from nearest town 2.1 miles north State B 333 Character of mark

Detailed description 2.1 miles north along the Tucson, Cornelia & Gila Bend railroad from the station at Ajo, 0.5 mile south of milepole 41, 63.1 feet east of the east rail.

255 feet east of the center line of a dirt road, 9.5 feet west of the center of the rast one of two 20-inch water pipe lines, 35 feet south of power line pole 45, in line with a row of poles, 2.3 feet north of a witness post, about 1 foot lower than the track, and set in the top of a concrete post projecting 0.3 foot above the

RECOVERY NOTE, BENCH MARK U. S. COAST AND GEODETIC SURVEY FORM 685.A.

PK,

Distance and direction from nearest town 1.8 miles north State Artzona Character of mark Bronze disk
Established by U. S. Geological Survey
Present condition Good R 14 (USGS) Ajo Nearest town

Stamping R 14 1930 Nov. 1953

County Pina

the stetlon at Ajo, at a point where two 20-inch water pipelines cross a small was, in the top of the west side of the north concrete pier of the west side of the north concrete pier of the west side of the north concrete pier of the westerly pipe likes, 175.0 feet east of the east side of the cast of the cast of the cast into of a dirt rad, 48 feet such of power line pole 39, 0.6 foot west of the west edge of the pipe, near the white painted numbers "Ich.", and about 5 feet lower than the

County Pima

Stamping P 36 1933 1559.475

# VERTICAL CONTROL DATA

Coast and Geodetic Survey by the

PAGE NO. 3

321123

LATITUDE 32°00' to 32°30' LONGITUDE 112°30' to 113°00' DIAGRAM NI 12-10 AJO

Line 101

County

Pima

COAST AND GEODETIC SURVEY PUBLISHED AND PRINTED BY: U.S. DEPARTMENT OF COMMER WASHINGTON D.C. DESCRIPTION OF BENCH MARK

COMMERCE

Distance and direction from nearest town 0.8 mile northwest Character of mark G 333 Ajo County Pina Arizona

Erass disk Stamping C 333 1953 U. S. Coast and Geodetic Survey O.8 mile northwest along the Tucson, Cornelia & Gila Bend relived from Stamping C 333 1953

Detailed description the station at Ajo, near the northeast edge of Ajo, 202 feet north of the northeast comman of a wooden bridge, 49.3 feet northeast of the northeast rail, 40 feet northwest of the center of a small wash, 2.8 feet south of a witness post, about 4 feet lower than the track, and set in the top of a concrete post projecting 0.4 foot above the ground.

> Detailed report Present condition

> > Good

from the station at Ajo, thence 0.1 mile southeast along State Highway 86, at a large concrete culvert, in the top of the center of the south concrete head wall Signet south of the center line of the highway, 5.9 feet west of the east end of the head wall, and about 6 feet lower than the road.

head wall,

0.15 mile southeast along the Tucson, Cornelia & Gila Bend reilroad

The stamping and the direction along State Highway 86 as shown on litho list

Character of mark Bronze disk

Established by

Nearest town

Distance and direction from nearest town 0.25 mile southeast

Arizons State Highway Department

6 + 41 (AHD)

RECOVERY NOTE, BENCH MARK

State Arizona County Pima

County Pina

Stamping 746.96 1938 6-41

Nov. 1953

RECOVERY NOTE, BENCH MARK

Z

County Pima State ATIZODA

Nov. 1953

County Pina

Stamping R 36 1933 1751.670

Good U. S. Coast and Geodetic Survey Bronze disk

Recovered as described on litho list 76 dated 13 November 1952

Character of mark

Detailed report Present condition Established by Distance and direction from nearest town

At Ajo

Ajo

Nearest town

#### ORIGINAL DESCRIPTION

At Ajo, Pima County, at the Tucson, Cornella & Gila Bend Railroad station, between the two waiting room doors in the east face of the station, 12 inches north of the south door, and about 7 inches above the ground. A standard disk, stamped "1751.670 R 36 1933" and set vertically.

U. S. COAST AND GEODETIC SURVEY Form 685 A

Designation

Nearest town

RECOVERY NOTE, BENCH MARK

Z

Distance and direction from nearest town 0.25 mile southeast Ajo R 15 (USGS)

County Pine

County Pine Nov. 1953

Stamping R 15 1930

Character of mark Bronze disk

Established by U. S. Geological Survey

Detailed report Present condition entwert for a graveled road and a railwad track leading to a large copper mill, 159 feet south of the center line of the highway [measured from a point over the center of a culvert), 71 feet northwest of the center of a gate in a fence around the copper mill and the center of the railread track, 31.6 feet northeast of the northeast rail of the track [measured from a point opposite a switch), 0.8 fock southeast rail of the northwest and of the head wall, and about 3 feet lower than the siled report 0.15 mile southeast along the Tucson, Cornelia & Gila Bend railroad from the station at Ajo, themce 0.1 mile southeast along State Highway 88, in the top of the morthwast and of the northeast concrete head wall of a large concrete Good

highway. 1952 is in error. Note: The direction along State Highway 86 on litho list 76 dated Nov. 13

dated Nov. 13, 1952 are in error.

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

### RECOVERY NOTE, BENCH MARK

Nearest town Ajo

Distance and direction from nearest town 1.1 miles southeast
Character of mark An Arizona Highway Department Disk Designation 61+48 (AHD) Nearest town Ajo Established by Arizona State Highway Department State

Arizona Chief of Party D. Moncevicz Recovery Date November 1961 Stamping 1714.24 61+48 1938 Fima

Detailed report About 0.15 mile southeast along the Tucson, Cornelia and Gila Hend Railroad from the station at Ajo; thence C.05 mile southeast along State Highway 85; in the center of the top of the southwest concrete headwall of a triple-channel metal culvert, 29 feet southwest of the center line of the highway, and about 1% feet below the level of the Present condition Good highway.

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

RECOVERY NOTE, BENCH MARK

N

Nearest town A.Jo

County Pima

Distance and direction from nearest town 1.5 miles southeast
Character of markAn Arizona Highway Department Disk
Established by Arizona State Highway Department Designation 81+40 (AHD) State Arizona

County Pima Chief of Party D. Moricevicz Chief of Party Date November 1961 Recovery Date November 1961 Stamping 1710.19 81+40 1938

Detailed report About 0.15 mile southeast along the Tucson, Cornelia and Gila Bend Railroad from the station at Ajo; thence 1.35 miles southeast along State Highway 85; in the center of the top of the southwest concrete head wall of a concrete culvert, 26 feet southwest of the center line of the highway, and about 4 feet below the level of the highway. Present condition Good

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

RECOVERY NOTE, BENCH MARK

County Pima Chief Party Concevicz Distance and direction from nearest town 1.8 miles southeast Record, Date November 1961 Character of mark An Arizona Highway Department Disk Stamping 1700.26 06+06 1938 Established by Arizona State Highway Department

Fira

Detailed report About 0.15 mile southeast along the Tucson, Cornelia and Gila Bend Railroad from the station at Ajo, thence 1.65 mile southeast along State Highway 85; in the center of the top of the southwest concrete headwall of a concrete culvert, 165 feet southwest of the center line of the highway, and about 6 inches above the level of the highway.

U.S. DEPARTMENT OF CONMERCE COAST AND GEODETIC SURVEY WASHINGTON D.C. PUBLISHED AND PRINTED BY:

#### CONTROL DATA by the VERTICAL

SEA-LEVEL DATUM OF

Coast and Geodetic Survey

QUAD 321123

4

to 32°30' 32°00' t E 112°30' t NI 12-10 LATITUDE LONGITUDE DIAGRAM

#### RECOVERY NOTE, BENCH MARK DEPARTMENT OF COMMERCE U. S. COAST AND GRODERIC SUBVET FORM 685A.

F 307

Nearest town Ajo County Pina Distance and direction from nearest town 2.05 miles southeast

Character of mark Brass disk

Stamping **F 307 1952** Nov. 1953

County Pima

alled report 0,15 mile southeast along the Tucson, Cornelia & Gila Bend railroad from the station at Ajo, thence 1.9 miles southeast along State Highway 86, at the "" junction of a road leading southwest to Darby Well, 124 feet south of a large cornuscial pipe culvert, 107 feet west of the center of the junction, 85½ feet southwest of the center line of the highway, 93 feet northwest of the center line of the highway, 93 feet northwest of the center line of the road, 2.2 feet north of a witness post, shout I foot higher than the highway, and set in the top of a concrete post projecting 0.4 foot above the ground. U. S. Coast and Geodetic Survey Present condition Detailed report

#### DESCRIPTION OF BENCH MARK

County Artzona. County 1714.03 (AED) Nearest town Designation

Distance and direction from nearest town 2.65 miles southeast Bronze di sk Character of mark

Arizona Highway Department 0.15 mile southeast along the Tucson, Cornelia & Gila Bend railroad from the station at Ajo, the noe 2.5 miles southeast along State Highway 86, 0.6 mile southeast of the "I" junction of a pared road leading southwest to Darby Well, at a large concrete bridge over a wesh, in the top of the approximate center of the southwest concrete head well, 32.9 feet southeast of the northwest end of the concrete head well, 14.3 feet southwest of the center line of the highway, and about I foot higher than the highway. Detailed description Established by

#### DESCRIPTION OF BENCH MARK

County

Distance and direction from nearest town 3.3 miles southeast Artzona Pima County 173+75 (AED) Ajo

Arizona Highway Department Bronze disk Character of mark Established by

Stamping 1693,69 173+75 1939

ed description 0.15 mile southeest along the Tucson, Cornella & Cila Bend railroad . from the station at Ajo, thence 5.15 miles southeest along State Highway 65, at an 8-by 60foot concrete box culvers, in the top of the approximate center of the southeest concrete head wall, 14.0 feet southwest of the order ine of the highway 4.7 feet southeest of the northwest end of the head wall, and about level with the highway. Detailed description

## DESCRIPTION OF BENCH MARK

Nearest town Ajo County Zhana Distance and direction from nearest town 3.65 miles southeast Arizona State 191+75 (AED) Bronze disk Character of mark Designation

Established by Detailed description

ed description 0.15 mile southeast along the Tueson, Cornella & Gile Bend relirosd from the station at Ajo, thence 3.5 miles southeast along State Highway 86, at the "" junction of a track road leading south, at a double conrecte box culvert, tha the top of the cemer of the southwast comrete head wall, 78 feet northwast the cemer of the junction, 14.8 feet southwast of the center line of the highway, 7.0 feet southeast of the northwast end of the head wall, and about level with the Arizona Highway Department

## DESCRIPTION OF BENCH MARK

Arizona County State

X

County

Nearest town Ajo County Pima Distance and direction from nearest town 4.65 miles southeast

Established by U. S. Coast and Geodetic Survey
Detailed description 0.15 mile southeast along the Thuson, Cornelia & Gila Bend railroad
from the station at Ajo, thence 4.5 miles southeast along State Highway 56, 174
feet south of the center of a dip in the highway, at the "I" junction of a track
read leading southwest, 98 feet southwest of the center line of the highway, 86
feet northwest of the center line of the road, 2.3 feet north of a witness post,
about level with the highway, and set in the top of a concrete post projecting Stamping D 333 1953 Character of mark Brass disk Established by U. S. Coast and Geodetic Survey

#### RECOVERY NOTE, BENCH MARK DEPARTMENT OF COMMERCE U. S. COAST AND GEODZIIC SUBVEY Form 685 A

0.4 foot above the ground.

State Arizona R 28 (USGS) Nearest town Designation

Distance and direction from nearest town 5.65 miles southeast County Pima Character of mark Bronze disk

Established by

Stamping 1714.03 140.22.92

Pins

Stamping R 28 1930

County Pima

ailed report 0.15 mile southeast along the Tucson, Cornelia & Gila Bend railroad from the station at Ajo, thence 5.5 miles southeast along State Highway 86, at a large connrote bridge, in the top of the southeast end of the southwest concrete abutment, 11.5 feet southwest of the center line of the highway, 0.4 foot southwest of the southwest concrete head wall, and about § foot lower U. S. Geological Survey Good Present condition Detailed report

than the highway.

#### DESCRIPTION OF BENCH MARK

Stamping E 553 1953 County Nearest town Ajo County Pima Distance and direction from nearest town 6.65 miles southeast Ari zona

Character of mark Brass disk

Established by U. S. Coast and Goodstic Survey

Detailed description O.15 mile southeast elong the Tucson, Cornella & Gila Band railroad

Detailed description O.15 mile southeast along State Highway 86, at the group the station at Ajo, thence 6.5 miles southeast along State Highway 86, at the southeast end of a curve, at the "I" junction of a dim track road leading southwest. 53.7 feet southwest of the center line of the highway, 48 feet southeast of the center line of the road, 2.5 feet north of a witness post, about \$ foot lower than the highway, and set in the top of a concrete post projecting 0.4 foot above the ground,

## RECOVERY NOTE, BENCH MARK

U. S. COAST AND GEODETIC SURVEY Form 685A

Designation

Stamping T 36 1933 1673, 366 County Pima Nearest town Ajo County Pima Distance and direction from nearest town 7.25 miles southeast State Arizona County Pima Character of mark Bronze disk T 36

U. S. Coast and Geodetic Survey

Established by

Stamping 1678.80 191+75 1939

Pime

County

Nov. 1953

Present condition Good

ried report 0.15 mile southeast along the Tucson, Cornelia & Gila Bend railroad from the station at Ajo, thence 7.1 miles southeast along State Highway 86, 0.6 mile southeast of the southeast and of a curve in the highway, 128.6 feet southwest of and across the highway from an iron pole supporting an 'AOME REER' sign, Aget est southwest of the center line of the highway, 1.7 feet north of a witheast post, about & Toot lower than the highway, and set in the top of a concrete post projecting 0.9 foot above the ground.

WASHINGTON D.C.

COAST AND GEODETIC SURVEY PUBLISHED AND PRINTED BY:

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Coast and Geodetic Survey
SEA-LEVEL DATUM OF 1929

to 113°00'

AJO

321123

LATITUDE 32°00'
LONGITUDE 112°30'
DIAGRAM NI 12-10

Line 101

#### DESCRIPTION OF BENCH MARK

Character of mark Distance and direction from nearest town. 8.05 miles southeast Nearest town U. S. Coast and Geodetic Survey Bronze reference-mark disk DUST R.M. 2 County Pima Arizona Stamping DUST NO 2 1936 County Pina

Detailed description ed description 0.15 mile southeast along the Tuoson, Cornelia & Gila Bend railroad from the station at Ajo, thence 7.9 miles southeast along State Highway 86, 1.4 miles southeast of the southeast end of a bend in the highway, 63.7 feet north of

DUST R.M. 1, 52 feet southwest of the center line of the highway, 50.9 feet north-west of triangulation station DUST, 2.2 feet northeast of a witness post, about 1 foot lower than the highway, and set in the top of a concrete post projecting 0.5 foot above the ground.

#### DESCRIPTION OF BENCH MARK

Character of mark Distance and direction from nearest town 8,05 miles southeast Nearest town County Pina County Pima

Detailed description Established by scter of mark Eronze reference -mark disk Stamping DUST NO 1 1936

U. S. Goest and Geodetto Survey
led description 0.15 mile southeast along the Tucson, Cornelia & Gila Bend reilroad from the station at Ajo, thence 7.9 miles southeast along State Highway 66, 1.4 miles southeast of the coutheast end of a bend in the highway, 95.8 feet southwest of the center line of the highway, 65.7 feet south of DUST R.M. 2, 44.3 feet southwest mest of triangulation station DUST, 1.8 feet north of a witness post, about 1 foot above the ground. lower than the highway, and set in the top of a concrete post projecting 0.5 foot

#### DESCRIPTION OF BENCH MARK

Established by Character of mark Distance and direction from nearest town 8.05 mlles southeast Nearest town U. S. Coast and Geodetic Survey Bronze triangulation-station disk County Pima Stamping DUST 1936 County Pina

Detailed description iled description 0.15 mile southeast along the Tuoson, Cornelia & Gila Bend railroad from the station at Ajo, thence 7.9 miles southeast along State Highway 56, 1.4 miles southeast of the southeast end of a bend in the highway. 51.5 feet southwas of the easter line of the highway, 50.9 feet southeast of DUST R.M. 2, 44.5 feet northeast of DUST R.M. 1, 1.8 feet morth of a witness post, about 1 foot lower northeast of DUST R.M. 1, 1.8 feet morth of a witness post, about 1 foot lower then the highway, and set in the top of a concrete post projecting 0.6 foot above the ground. 51.5 feet southwest

# RECOVERY NOTE, BENCH MARK

Designation Distance and direction from nearest town 8.9 mlles southeast Nearest town Ajo B 27- (USGS) County Pina Stamping R 27 1950 Nov. 1953

Gharacter of mark Bronzo dist

Detailed report resent condition stablished by called report 0.15 mile southeast along the Tucson, Cornella & Oila Bend railroad from the station at Ajo, thence 8.75 miles southeast along State Highway 86, 257 feet aortheast of the canter of a dip in the highway, 43.7 feet southwest of the center lime of the highway, 14 feet north of a witness post, about level with the highway, and set in the top of a comorete post projecting 0.6 foot above the ground, bighway, and set in the tag accuracy post projecting 0.6 foot above the ground. Hote: The disk is slauting; rod held on letters 'UR' of the word 'SURVEY'. U. S. Geological Survey

# RECOVERY NOTE, BENCH MARK

Character of mark Breas disk Stamping F 335 1955
Established by U. S. Coest and Geodetic Survey
Detailed description 0.15 mile southeast along the Tucson, Cornelia & Gila Bend railroad

Stamping F 555 1955

from the station at Ajo, thence 9.45 miles southeast along State Highway 86, 0.1 mile southeast of the southeast end of a bend in the highway, about 100 yards north west of a dip in the highway, 44 feet southwest of the center line of the highway, 13 feet north as to a lone bushy tree, 2.2 feet north of a witness yest, about 1 foot lower than the highway, and set in the top of a concrete post projecting 0.3

100 yards north-

foot above the ground.

Distance and direction from nearest town 9.6 miles southeast

County Pima

Arizona

DESCRIPTION OF BENCH MARK

Nearest town

Designation Nearest town U 36 Ajo

Distance and direction from nearest town 10.3 miles southeast

County Pina

County Pins

N

Stamping T 56 1953 1767.004

Present condition Character of mark Bronze ailed report 0.15 mile southeast along the Tucson, Cornelia & Gila Bend railroad from the station at Aio, themse 10.15 miles southeast along State Highway 86, 157% feet northwest of the center of a dip in the highway, at the "I" junction of a track road leading west, 55,2 feet southwest of the center line of the highway, 70% feet road leading west, 55,2 feet southwest of the center line of the highway, 70% feet road leading west, 55.2 feet southwest of the center line of the highway, 70% leave southmest of the center line of the road at a point where the road turns west, 2.0 feet north of a witness post, about 1 foot lower than the highway, and set in the top of a concrete post projecting 1.2 feet above the ground. Good U. S. Coast and Geodetic Survey TRID

Detailed report

Established by

#### DESCRIPTION OF BENCH MARK

Detailed description 0.15 mile scutheast along the Tucson, Cornelia & Gila Bend railroad from the station at Ajo, thence 10.75 miles scutheast along State Highway 36, at the From the From the Sonoyta-Ajo highway, at an 18-inch concrete pipe onlywerk the From the Sonoyta-Ajo highway, in the top of the approximate center of the east comprete head well, 45 feet southwest of the center line of State Highway 86, 19.7 feet east of the center line of State Highway 86, 19.7 Nearest town A30 County Pine Distance and direction from nearest town 10.9 miles southeast Character of mark Established by U. S. Coast and Geodetic Surwy G 333 Arizona Stamping G 335 1953 County

U. S. COAST AND GEODETIC SURVEY FORM 686 A

Sonoyta-Ajo highway.

Z

RECOVERY NOTE, BENCH MARK

Ajo R 26 (USGS) County Pime

Designation

Nearest town

Distance and direction from nearest town 11.7 miles southeast

Nov. 1953

County Pine

Stamping R 26 1930

Character of mark Bronze disk

Established by U. S. Geological Survey

Detailed report Present condition etailed report 0.15 mile southeast along the Tucson, Cornelia & Gila Bend relived from the station at Ajo, the moe 11.55 miles southeast along State Highway 86, at the 'T' junction of the old Somoyte-Ajo highway, 176 feet southeast of the center 11ms of the old highway, 1.1ms of State Highway 86, 28 feet southeast of the center 11ms of the old highway, 1.1m feet 4.3 feet southeast of a cast iron post (an old Customs sign marker post), 1.7 feet northwest of a witness post, about 1½ feet lower than the highway, and set in the northwest of a witness post, about 1½ feet lower than the highway, and set in the top of a concrete post projecting 0.5 foot above the ground.

PUBLISHED AND PRINTED BY: U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

WASHINGTON D.C.

VERTICAL CONTROL DATA

Coast and Geodetic Survey SEA-LEVEL DATUM OF 1929

QUAD 321123

9

to 32°30' 32,001 DIAGRAM NI 12-10 LONGITUDE LATITUDE

## DESCRIPTION OF BENCH MARK

Nearest town Ajo County Pina Distance and direction from nearest town 11.9 miles southeast Arizona State Designation

Character of mark Brass disk

Character of mark Brass disk

Established by

U. S. Coast and Geodetic Survey

Detailed description 0.15 mile southeast along the Tucson, Cornelia & Gila Bend railroad

From the station at Ajo, thence 10.75 miles southeast along State Highway 86,

from the station at Ajo, thence 10.75 miles southeast along State Highway 6.2 feet west of the center thence 1.0 mile south along the Sonorta-Ajo highway, 52% feet west of the center thence 1.0 mile south along the sourth of a witness post, about 1½ feet lower than lime of the highway, 2.4 feet south of a witness post, about 12 feet lower than the highway, and set in the top of a concrete post projecting 0.4 foot above the

#### DESCRIPTION OF BENCH MARK

County Pima Nearest town Ajo County Pims Distance and direction from nearest town 12.9 miles southeast Arizona

Character of mark Breass disk.

Established by U. S. Coest and Geodetic Surwey

Detailed description 0.15 mile southeast along the Tucson, Cornelia & Gila Bend reliroad

Erom the station at Ajo, thence 10.75 miles southeast along Shete Highway 86,

thence 2.0 miles south along the Ajo-Sonoyte highway, at a large concrete bridge,

in the top of the north end of the east concrete curb, 13.4 feet east of the center

line of the highway, 4.0 feet south of the north end of the bridge floor, and about

gloof higher than the highway.

#### DESCRIPTION OF BENCH MARK

Arizona State R 25 (USGS)

Stamping R 25 1930 Nearest town Ajo County Pina Distance and direction from nearest town 13.7 miles southeast

Character of mark Bronze disk Established by U. S. Geological Survey

concrete bridge, 0.2 mile north of the southwest end of a ridge at the edge of the highway and covered with black rock, 28.5 fest west of the center line of the highway, 1.6 feet north of a witness post, about level with the highway, and set in the top of a concrete post projecting 0.5 foot above the ground. Detailed description 0,15 mile southeast along the Tucson, Cornella & Gile Bend railroad from the station at Ajo, thence 10.75 miles southeast along State Highway E6, thence 2.8 miles south along the Sonoyta-Ajo highway, 0,8 mile south of a large

## DESCRIPTION OF BENCH MARK

Distance and direction from nearest town 14.5 miles southeast Pina Character of mark Bress disk Designation

Stamping K 333 1953

County Pina

thence 3.6 miles south along the Sonoyta-Ajo highway, at a twin concrete box culvert, in the top of the approximate center of the east concrete head wall, 15.4 feet east of the center line of the highway, 8.4 feet south of the north end of the head wall, and about 1 foot higher than the highway. Detailed description 0.15 mile southeast along the Tucson, Cornelia & Gila Bend reliroad from the station at Ajo, thence 10.75 miles southeast along State Highway 86, U. S. Coast and Geodetic Survey

#### DESCRIPTION OF BENCH MARK

Distance and direction from nearest town 15.0 miles southeast Arizona A jo

Character of mark Brass disk

Established by U. S. Coset and Geodetic Survey

Established by U. S. Coset and Geodetic Survey

Detailed description 0.15 mile southbeat along the Tucson, Cornelia & Gila Bend railred

from the station at Ajo, thence 10.75 miles southbeat along State Highway 86,

thence 4.1 miles south along the Sonoyta-Ajo highway, at a 36-inch courabte pipe

culvert, in the top of the north and of the west concrete head wall, 20.7 feet

west of the center line of the highway. 1.8 feet south of the north and of the

head wall, and about level with the highway.

#### DESCRIPTION OF BENCH MARK

County Pina Distance and direction from nearest town 15.7 miles southeast Arizona County Pina State Nearest town Designation

Stamping M 333 1953 Character of mark Brass disk Established by U. S. Coast and Geodetic Survey

Established by U. S. Coast and Geodetic Survey
Detailed description 0.15 mile southeast along the Tucson, Cornelia & Gila Bend realiroad
Tron the station at Ajo, thence 10.75 miles southeast along State Highway 86,
thence 4.8 miles south along the Sonoyfa-Ajo highway, at an entrance to the Organ
thence 4.8 miles south along the Sonoyfa-Ajo highway, at an entrance to the Organ
Pipe Gactus National Monument, 56.4 feet west of the center line of the highway,
50.0 feet northwest of the northwest corner of a cattle guard, 35.4 feet northwest
of the northwest post of the National Monument sign, 2.5 feet northwest of a fence
2.2 feet east of a witness post, about \$\frac{1}{2}\$ foot higher than the highway, and set in
the top of a concrete post projecting 0.3 foot above the ground.

#### DESCRIPTION OF BENCH MARK

Stamping 1786,63 1179+00.00 County Pima Nearest town Ajo County Pina Distance and direction from nearest town 16.15 miles southeast Arizona 1786.63 (USDA)

Character of mark Bronze disk

Established by U. S. Department of Agriculture

Established description 0.15 mile southeast along the Tucson, Cornslia & Gila Bend railread

Detailed description 0.15 mile southeast along the Southeast along State Highway 86,

from the station at Ajo, thence 10,75 mile & Southeast along State Highway 86,

thence 5.25 miles south along the Sonoyte-Ajo highway 0.3 mile south of an entrance to the Organ Pipe Coctus National Monument, 175 feet northway of the center of a dip in the highway, 100 feet was to of the center line of the highway, 9 feet northeest of the center line of the highway, 9 feet northeact of the center line of a dim track road, 2.8 feet north of a witness post, about above the ground.

### DESCRIPTION OF BENCH MARK

Stamping 1788.57 1 1179+00.00 Nearest town Ajo County Pima Distance and direction from nearest town 16.15 miles southeast Arizona State 1788.57 (USDA) Character of mark Bronze disk

discription 0.15. Department of Agriculture lied description 0.15 mile southeast along the Tucson, Cornella & Gila Bend railroad from the station at Ajo, thence 10.75 miles southeast along State Highway 86, thence 5.25 miles south along the Sonoyte-Ajo highway, 0.3 mile south of an entrance Established by

to the Organ Fips Cactus National Monument, 175 feet northeast of the center of a dip in the highway, 200 feet each of the center line of the highway, 2.8 feet north of a witness post, about level with the highway, and set in the top of a concrete post projecting 0.4 foot above the ground.

COAST AND GEODETIC SURVEY PUBLISHED AND PRINTED BY: U.S. DEPARTMENT OF COMMERCE

WASHINGTON D.C.

Line 101

DIAGRAM NI 12-10 LATITUDE 32°00'

AJO

#### DESCRIPTION OF BENCH MARK

Distance and direction from nearest town 16.75 miles southeast R 24 (USGS) County Pine Arizona County

Character of mark Bronze disk

U. S. Geological Survey

Stamping R 24 1930

Detailed description from the station at Ajo, theanse 10.75 miles southeast along State Highway 86, theanse 5.85 miles south along the Somoyte-Ajo highway, 0.9 mile south of an entrance to the Organ Pipe Gactus National Monument, at the 'T' junction of a dim track road leading west, 36.8 feet west of the center line of the highway, 36 feet south of the center line of the highway, 36 feet south of the name of the highway, 36 feet south of the name of the highway, 36 feet south of the highway, and set in the top of a comprete post projecting 0.5 foot above

the ground.

#### DESCRIPTION OF BENCH MARK

Distance and direction from nearest town 16.95 miles southeast Nearest town 1807.20 (USDA) State County Pima Stamping 1807.20 1A 1139+00.00

County

Detailed description 0.15 mile southeast along the Tucson, Cornelia & Gila Bend reilroad from the station at Ajo, thence 10.75 miles southeast along State Highway 86, thence 6.05 miles south along the Sonoyta-Ajo highway, on top of a low rise, 50 Established by Character of mark feet west of the center line of the highway, 2.2 feet north of a witness post, about 2g feet higher than the highway, and set in the top of a concrete post projacting 0.3 foot above the ground. U. S. Department of Agriculture

### DESCRIPTION OF BENCH MARK

Distance and direction from nearest town 16.95 miles southeast Nearest town AJO 1805.58 (USDA) State County Pina Arizona

County

Pime

Stamping 1805.58 1A 1139+00.00

Established by Character of mark Bronze disk

Detailed description ushed by U. S. Department of Agriculture 1 ided description 0.15 mile southeast along the Tucson, Cornelia & Gila Bend railroad lied description the station at Ajo, themse 10.75 miles southeast along State Highway 85, themse 6.05 miles south along the Sonoyte-Ajo highway, 50 feet east of the center themse 6.05 miles south along the Sonoyte-Ajo highway, 50 feet morth of a witness post, about level with the highway, and set in the top of a concrete post projecting 0.3 foot above the ground.

## DESCRIPTION OF BENCH MARK

County

Pina

County Pima

Distance and direction from nearest town 17.25 miles southeast Character of mark Nearest town Brass disk

Stamping N 333 1953

Detailed description thence 6.35 miles south along the Sonoyta-Ajo highway, at a double concrete box sulvert, in the top of the approximate center of the west concrete head wall, 16.8 feet west of the center line of the highway, 9.6 feet south of the north end of the head wall, and about level with the highway. ed description 0.15 mile southeast along the Tucson, Cornelia & Gila Bend railroad from the station at Ajo, thence 10.75 miles southeast along State Highway 85, U. S. Coast and Geodetic Survey

## DESCRIPTION OF BENCH MARK

Detailed description 0.15 mile southeast along the Tucson, Cornelia & Gila Bend railroad from the station at Ajo, thence 10.75 miles southeast along State Highway 86,

consists box cultert, 92 feet east of the center line of the highway, 1.6 feet north of a witness post, about level with the highway, and riveted on top of a 3/4-inch iron pipe projecting 0.9 foot above the ground. thence 6.5 miles south along the Sonoyte-Ajo highway, 0.1 mile south of a double Distance and direction from nearest town 17.4 miles southeast

S27 S26 (GLO)

State

County

Pima Arizona

Stamping 1/4 S27 S26 1918

DESCRIPTION OF BENCH MARK

Bronze cap

U. S. General Land Office

Nearest town

Established by Character of mark

1821.38 (USDA) State County Pina County

Distance and direction Nearest town Ajo from nearest town 17.9 miles southeast

Established by Character of mark Bronze disk U. S. Department of Agriculture Stamping 1821.38 1A 1092+00.00

Detailed description 0.15 mile southeast along the Tuoson, Cornelia & Gila Bend redired from the station at Ajo, thence 10.75 miles southeast along State Highway 85, thence 7.0 miles south along the Souoyta-Ajo highway, 101 feet west of the oenter line of the highway, 2.1 feet north of a witness post, about level with the highway, and set in the top of a concrete post projecting 0.3 foot above the ground.

#### DESCRIPTION OF BENCH MARK

Nearest town 1825.23 (USDA) State County Pina Arizona County Pina

Distance and direction from nearest town 17.9 miles southeast Character of mark U. S. Department of Agriculture Bronze disk Stamping 1825. 28 1A 1092.00.00

Octabled description 0,15 mile southeast along the Tucson, Cornelia & Gila Bend railroad from the station at Ajo, thence 10.75 miles southeast along State Highway 86, thence 7.0 miles south along the Sonoyte-Ajo highway, 0,1 mile north of a dip in the highway, 99.2 feet east of the center lime of the highway, 2.4 feet morth of a witness post, about level with the highway, and set in the top of a concrete a witness post, about level with the highway, and set in the top of a concrete post projecting 0.3 foot above the ground.

### DESCRIPTION OF BENCH MARK

Arizona

County

Nearest town A.jo County Pima
Distance and direction from nearest town 18.35 miles southeast Character of mark Brass disk

Established by U. S. Coast and Godetic Survey

Stamping P 535 1955

Detailed description 0.15 mile so from the station at AJc, thence 10.75 miles southeast along State Highway 88, from the station at AJc, thence 10.75 miles southeast along State Highway 88, thence 7.45 miles south along the Sonoyte-Ajo highway, 0.1 mile north of a dip in the highway, 35 feet mest of the center line of the highway, 25.4 feet north of a Falo Warde tree, 3.1 feet south of a witness post, about 1 foot higher than the highway, and set in the top of a concrete post projecting 0.4 foot above the ground.

COMMERCE U.S. DEPARTMENT OF COMMERC COAST AND GEODETIC SURVEY WASHINGTON D.C. PUBLISHED AND PRINTED BY:

#### CONTROL VERTICAL

Coast and Geodetic Survey SEA-LEVEL DATUM OF

QUAD 321123

 $\infty$ 

PAGE NO.

to 32°30' to 113°00' AJO LATITUDE 32°00' t LONGITUDE 112°30' t DIAGRAM NI 12-10

## DESCRIPTION OF BENCH MARK

Stamping Q 333 1953 Pime County Nearest town Ajo County Pina Distance and direction from nearest town 19.2 miles southbeast Arizona Character of mark Brass disk Established by U. S. Goast and Geodetic Survey

Established by U. S. Goast and Geodetic Survey
Detailed description 0.15 mile southeast along the Tucson, Cornella & Gila Bend railroad
From the station at Ajo, thence 10.75 miles southeast along State Highway 86,
thence 8.3 miles south a long the Scoryta-Ajo highway, at a double concrete box
culvert, in the top of the west concrete head wall, 17.0 feet west of the center
line of the highway, 1.6 feet south of the north end of the head wall, and about

#### RECOVERY NOTE, BENCH MARK DEPARTMENT OF COMMERCE U. S. COAST AND GROSTIC SURVEY FORM 685 A.

Nov. 1953 County Pima Distance and direction from nearest town 19.9 miles southeast State Arizona County Pima R 23 (USGS) Designation

Stamping R 23 1950 Character of mark Bronze disk Established by U. S. Geological Survey Present condition Good Detailed report

ailed report 0.15 mile southeast along the Tucson, Cornelia & Gila Bend railroad from the station at Ajo, thence 10.75 miles southeast along State Highway 86, thence 9.0 miles south along the Sonoyta-Ajo highway, at the intersection of a track road (east-mest), 45 feet mest of the center line of the highway, 252 feet north of the center line of the nod, 1.9 feet south of a witness post, about foot higher than the highway, and set in the top of a concrete post projecting 0.4 foot above the ground.

#### RECOVERY NOTE, BENCH MARK DEPARTMENT OF COMMERCE U. S. COAST AND GEODERIC SURVEY FORM 686 A.

Stamping 1813.86 1A 955+00.00 Nov. 1953 County Pima Distance and direction from nearest town 20.55 miles southeast Arizona Pima Character of mark Bronze disk Established by U. S. Department of Agriculture County State 1813.86 (USDA) Present condition Good Nearest town

ailed report 0.15 mile southeast along the Tucson, Cornella & Gila Bend railroad from the station at Ajo, thence 10.75 miles southeast elong State Highway 85, thence 9.65 miles south along the Sonoyta-Ajo railroad, 0,1 mile south of a dip in the highway, 49\$ feet west of the center line of the highway, 19\$ feet morth of a witheast poet, about 1 foot higher than the highway, and set in the top of a concrete post projecting 0.3 foot above the ground, Note: The stemping as shown on lithe list 76 dated Nov. 13, 1952 is in Detailed report

#### RECOVERY NOTE, BENCH MARK DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY FORTE 686.A.

Nov. 1953 County Pima Distance and direction from nearest town 20,9 miles southeast County A Jo

Nearest town

K

U. S. Coast and Geodetic Surway Character of mark Brass disk Established by U. S. Coast

Stamping **V** 309 1952

Present condition Good Detailed report

from the station at Ajo, thence 10.75 miles southeast along State Highway 85, thence 10,00 miles south at Long the Sonoyta-Ajo highway, 235 feet south of the center of the 'T' junction of a graveled road leading east, at a concrete box culvert, in the top of the approximate center of the sest conrete head wall; 16% feet east of the center in or the highway, 3.8 feet north of the south end of the beat east of the about & foot lower than the highway.

#### DEPARTMENT OF COMMERCE U. S. COAST AND GEODERIC SURVEY FORM 685A

Designation

## RECOVERY NOTE, BENCH MARK

Nearest town Ajo County Pima Distance and direction from nearest town 21,9 miles southeast Arizona State T 110

Nov. 1953 County Pima

U. S. Coast and Geodetic Survey Character of mark Bronze disk Present condition Good Established by

died report 0.15 mile southbest along the Tucson, Cornelia & Gila Band railroad from the station at Ajo, thence 10.75 miles southeast along State Highway 86, therefor in.0 miles south along the Sonoyta-Ajo highway, 62.5 feet northeast of the north and of the east concrete heat of a witness post, about 2 feet higher than the highway, 1.9 feet north of a witness post, about 2 feet higher than the highway, and set in the top of a concrete post projecting 0.6 foot above the ground. Detailed report

# RECOVERY NOTE, BENCH MARK

Nov. 1953 838 5852 B 1 A Stamping 838 5838 A 1921.19 County Pima Distance and direction from nearest town 22.7 miles southeast State Arizona U. S. Department of Agriculture County Pima Designation 1921.19 (USDA) Present condition Good Established by Nearest town

alled report 0.15 mile southeast along the Tucson, Cornelia & Gila Bend reliroad from the station at Ajo, thence 10.75 miles southeast along State Highway 86, there is a line miles south along the Schoyta-Ajo highway, 48% feet west of the center line of the highway, 28% feet morthwest of the north and of the west concrete head wall of a concrete order, about 1 foot lower than the highway, and set in the top of a concrete post projecting 0.2 foot above the ground.

Note: The stamping as shown on litho list 76 dated Nov. 13, 1952 is in error.

# RECOVERY NOTE, BENCH MARK

K

Nov. 1953 838 5852 B 1A Stamping838 5838 A 1934.27 County Pima Distance and direction from nearest town 22.7 miles southeast State Arizona mark Bronze disk

y U. S. Department of Agriculture County Pima 1924 .27 (USDA) Present condition Good Established by Nearest town Designation

head wall of a cultart, 1.0 foot morth of a witness post, about level with the high, way, and set in the top of a concrete post projecting 0.2 foot above the ground.

Note: The stamping as shown on litho list 76 dated 11/5/53 is in error. ailed report 0.15 mile southeast along the Tucson, Cornelia & Gila Bend reliroed from the station at Ajo, thence 10.75 miles southeast along State Highway 86, thence 11.8 miles south along the Sonoyta-Ajo highway, 51 feet east of the center line of the highway, 35.0 feet northeast of the southeast end of the east concrete Detailed report

Stamping 825.3362 1A 1936.48 Nov. 1953 Distance and direction from nearest town 23.1 miles southeast Character of mark Bronze disk Established by U. S. Department of Agriculture County Pime Present condition Good Ajo Detailed report Nearest town

alled report 0.15 mile southerst along the Tucson, Cornella & Gila Bend reliroad from the station at Ajo, thence 10.75 miles southerst along State Highway 86, thence 12.8 miles south along the Sonoyta-Ajo highway, at a cut through a low midge and at a slight curve, 45% feet west of the center line of the highway, 1.5 feet south of a witness post, about 4% feet higher than the highway, and set in the top of a concrete post projecting 0.1 foot above the ground.

Note: The stamping as shown on litho list 76 dated 11/13/55 is in error.

04

Stamping **T 110 1935** 

# DEPARTMENT OF COMMERCE U. S. COAST AND GEODERIC SURVEY FORM 655 A

Character of mark Bronze disk

Detailed report

# DPPARTMENT OF COMMERCE U. S. Coast and Geodric Survey Form 685A

County Pima RECOVERY NOTE, BENCH MARK Arizona 1936.48 (USDA) DEPARTMENT OF COMMERCE G. S. COAST AND GEODETIC SURTEY FORM 685A

# VERTICAL CONTROL DATA

Coast and Geodetic Survey SEA-LEVEL DATUM OF 1929

by the

321123 PAGE NO.

LATITUDE 32°00' to 32°30' LONGITUDE 112°30' to 113°00'

DIAGRAM NI 12-10

AJO

9

Line 101

COAST AND GEODETIC SURVEY UBLISHED AND PRINTED BY:
.S. DEPARTMENT OF COMMER COMMERCE

U. S. Coast and Geodetic Survey Form 685 A WASHINGTON D.C. RECOVERY NOTE, BENCH MARK

Character of mark Bronze disk Distance and direction from nearest town: 25.1 miles southeast Nearest town Designation 1937.80 (USDA) State County Pina

Stamping 825 33,52 1A 1937.80

Nov. 1953

County Pins

Established by U. S. Department of Agriculture

Detailed report Present condition 1936.48 (USDA), 50g feet east of the center line of the highway, 2.0 feet south of a witness post, about 4g feet higher than the highway, and set in the top of a concrete post projecting 0.1 foot above the ground. ailed report 0.15 mile southeast along the Tuoson, Cornelia & Gila Bend reilroad from the station at Ajo, thence 10.75 miles southeast along State Highway 86, thence 12.2 miles south along the Sonoyta-Ajo highway, at a cut through a low ridge and at a slight curve, 100 feet east of and across the highway from B.M.

> Detailed report Present condition Established by

> > Cood

U. S. Coast and Geodetic Survey

Stamping V 110 1935

Nov. 1953

iled report 5.1 miles north along the Somoyta-Ajo highway from the post office at Lukeville, thence 0.1 mile east along a track road, thence 8.5 miles north along the old Somoyta-Ajo road, 108½ feet southwest of the approximate center of the crossing of a wash, 43½ feet west of the center line of the road, 1.9 feet north of a witness post, about level with the road, and set in the top of a concrete post

Character of mark Bronzs disk

Nearest town Designation

Distance and direction from nearest town 13.7 miles north

Lukeville

RECOVERY NOTE, BENCH MARK

State County Pima

Arizona

County Pina

The stamping as shown on litho list 76 dated 11/13/53 is in error

U. S. COAST AND GEODETIC SURVEY
FORM 685 A RECOVERY NOTE, BENCH MARK

Distance and direction from nearest town 16.1 miles north Luke ville # 309 County Pine Arizona

Nearest town Designation

County Pina Stamping W 309 1952

Nov.

Established by Character of mark Brass disk Present condition U. S. Coast and Geodetic Survey

Detailed report the old Sonoyte-Ajo need, these 0.1 mile east along a track road, these 10.55 miles north along the old Sonoyte-Ajo need, these 0.55 mile west along a track road, 23.8 miles southeast of Ajo, at the 'T' junction of the Sonoyte-Ajo highway, 15% feet south of the easter of a wash, 8% feet morth of the center line of the road, 81% feet east of the center line of the highway, 2.2 feet west of a witness post, shout a foot higher than the highway, and set in the top of a concrete post projecting 0.4 foot above the ground. 5.1 miles north along the Sonoyta-Ajo highway from the post office at

DEPARTMENT OF COMMERCE U. S. Coast and Geodetic Survey Form 685 A

RECOVERY NOTE, BENCH MARK

Distance and direction from nearest town 15.75 miles north Nearest town Designation OII D Lukeville County Pima State Arizona

Character of mark Bronze disk Present condition Established by U. S. Coast and Geodetic Survey Good

Stamping 110 1935

Nov, 1953

Established by

County Pima

Detailed report Inkevill, thence 0.1 mile east along a track road, thence 10.55 miles north along the old Sonoyta-Ajo highway, 36g feet morth of the center of a wash, 30 feet west of the center line of the road, 2.0 feet south of a witness post, about level with ground. the road, and set in the top of a concrete post projecting 0.3 foot above the 5.1 miles north along the Sonoyta-Ajo highway from the post office

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY FORM 685 A

Designation

RECOVERY NOTE, BENCH MARK

Luke wille State Arizons County Pina

Distance and direction from nearest town 14.75 miles north Nearest town

Stamping X 509 1952

Nov. 1953

County Pina

Character of mark Brass disk

Present condition 000g S. Coast and Geodetic Survey

Detailed report ailed report 5.1 miles morth along the Somoyta-Ajo highway from the post office at Lukewille, themse 0.1 mile sest along a track road, themse 9.55 miles morth along the old Somoyta-Ajo road, 166 feet morth of a point where the road crosses a wash, 60 feet west of the center lime of the road, 2.0 feet east of a witness post, about level with the road, and set in the top of a comrete post projecting 0.5 foot above the ground.

> DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY FORD 685 A RECOVERY NOTE, BENCH MARK

projecting 0.2 foot above the ground.

Z

Lukeville State

County Pina

Stamping Y 309 1952

Nov. 1953

Nearest town Designation

Character of mark Brass Distance and direction from nearest town 12.65 miles north

Established by resent condition Good U. S. Coast and Geodetic Survey

Detailed report ided report 5.1 miles north along the Somoyta-Ajo highway from the post office at Lukewille, thence 0.1 mile east along a track road, the noe 7.45 miles morth along the old Sonoyta-Ajo road, on a low ridge between two washes, 119 feet northwest of the approximate center of the crossing of a wash, 412 feet west of the center line in the top of a concrete post projecting 0.3 foot above the ground. of the road, 2.2 feet east of a witness post, about level with the road, and set

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY FORM 685 A

Z

RECOVERY NOTE, BENCH MARK

Nearest town Lukeville W 110 State County Pina

County Pima

Nov. 1953

Distance and direction from nearest town 11.6 miles

Character of mark Bronze disk U. S. Coast and Geodetic Survey

Stamping W 110 1935

Present condition Lukeville, thence 0.1 mile east slong a track road, themce 6.4 miles north along the old Somyta-Ajo road, 134g feet southeast of the approximate center of the crossing of a large wash, 46g feet east of the center line of the road, 2.2 feet morth of a witness post, about level with the mad, and set in the top of a concrete post projecting 0.3 foot above the ground. 3000g 5.1 miles north along the Sonoyta-Ajo highway from the post office at

Z

U. S. COAST AND GEODETIC SURVEY ...
FORM 685 A. RECOVERY NOTE, BENCH MARK

Distance and direction from nearest town 10.6 miles north Designation Nearest town Lukeville County Pima Arizona

Character of mark Brass disk Established by U. S. Coast and Geodetic Survey

Stamping Z 309 1952

Detailed report resent condition Inteville, thence 0.1 mile east along a track road, thence 5.4 miles north along the old Somoyta-Ajo road, 47g feet east of the center of the 'Y' junction of a track road leading southwest, 2.0 feet west of a witness poet, about level with the road, and set in the top of a concrete post projecting 0.5 foot above the ground. 5.1 miles north along the Sonoyta-Ajo highway from the post office at Go od

County Pina

NOV.

COMMERCE U.S. DEPARTMENT OF COMMER COAST AND GEODETIC SURVEY WASHINGTON D.C. PUBLISHED AND PRINTED BY:

VERTICAL CONTROL DATA

Coast and Geodetic Survey SEALEVEL DATUM OF 1929

by the

to 32°30' to 113°00' AJO LATITUDE 32°00'
LONGITUDE 112°30' NI 12-10 QUAD 321123 DIAGRAM

# DESCRIPTION OF BENCH MARK

from the station at Ajo to Highway 86, thence 1.9 miles east along Highway 86, thence 1.95 miles southwest and scuth along Darby Wells roed, 0.1 mile southwest of a "T" innortion of old Darby Wells food, and the new rood, at Darby Wells, 90.6 feet west of the Darby Well windrail from the southwest leg, 75 feet south of the center line of the roed, 4.9 feet northwest of a fence line, 2.2 feet north of the witness post, in the top of a concrete post projecting 0.3 foot, and about 6 feet lower than the roed. Character of mark Bromze Disk
Established by United States Coast & Geodetic Survey
Detailed description 0.15 miles southeast along the Tucson, Cornella, and Gila Bend Failroad Stamping **D 109 1935** County Arizona County Pims 4 miles south Pima Distance and direction from nearest town Designation

X iled report 5.1 miles north along the Sonoyta-Ajo highway from the post office at Lukeville, thence 0.1 mile east along a track road, thence 4.35 miles north along the old Sonoyta-Ajo road, 170 feet northwest of the center of the crossing of a wash, 39 feet west of the center line of the road, 1.4 feet east of a witness post, about level with the road, and set in the top of a concrete post projecting 0.4 foot above Stamping X 110 1935 Nov. 1958 County Pina RECOVERY NOTE, BENCH MARK Distance and direction from nearest town 9.55 miles north State Arizona Character of mark Bronze disk Established by U. S. Coast and Geodetic Survey Lukeville Present condition Good DEPARTMENT OF COMMERCE U. S. COAST AND GRODERIC SURVEY FORM 685A Detailed report

Nearest town

Designation

RECOVERY NOTE, BENCH MARK DEPARTMENT OF COMMERCE U. S. COAST AND GRODERIC SURVEY Form 686 A.

Nearest town Clarkston CountyPims
Distance and direction from nearest town 2.5 miles south State Arizona CountyPima R 16 (USGS) Designation

U. S. Geological Survey Character of mark Bronze Disk Present condition Not found. Established by

sport This mark was thoroughly searched for but was not located. The old road described was not found, possibly due to extensive Detailed report

#### ORIGINAL DESCRIPTION

## DESCRIPTION OF BENCH MARK

Distance and direction from nearest town 3.1 miles southeast G 307 A.30 Nearest town Designation

State Arizona

County

Character of mark Bronze Disk

Established by U. S. Coast and Geodetic Survey

Detailed description 0.15 mile southeast along the Tucson, Cornella, and Sile Bend

Ealizond from the station at Ajo to Highway 86, thence 1.9 miles east

along Highway 86, thence 1.05 miles southwast along the Draby Wells

Road, set in about the center of a large boulder 18 x 98 feet, and

Road, set in about the center of a large boulder 18 x 98 feet, and projecting  $3\frac{1}{2}$  feet above ground, 1.0 mile southwest of junction of Highway 86, 59 $\frac{1}{2}$  feet west of the centerline of the road, 7.6 feet south of the north end of the boulder, and about  $1\frac{1}{2}$  feet higher than

Detailed description O.15 mile southeast along the Tucson, Cornelia, and Gila Bend Ralinoed from the station at Ajo to Highway 86, thence 1.9 miles east along Highway 86 to Darby Well Road, thence 2.9 miles east along Highway 86 to Darby Wells Road, thence 2.9 miles southwest and south along Darby Wells Road to Bates Well, 0.95 mile southwest of Darby Well, at "T" function of main road and a road leading northwest of 95 feet northeast of the center of the center of "T" function, 48 feet northwest of the center of the wash, 28 feet southeast of the center of road,

2.5 feet north of the witness post, in the top of a concrete post projecting 0.3 foot, and about 1 foot higer than the road.

Pima

County

Arizona

R 17 (USGS)

Designation X Vearest town

County Pima 5.9 miles south

Distance and direction from nearest town

DESCRIPTION OF BENCH MARK

Stamping H 307 1952

Distance and direction from nearest town 4.95 miles south Character of mark Bronze Disk

Ajo

Designation

County Pima

County

DESCRIPTION OF BENCH MARK

Jan. 1952 Stamping R 16 1935 County Pima

mining in the area.

About 2.5 mi. S of Clarkston along old Schits Foad, 10 ft N of a custom sign in road fork; in concrete post, bronze tablet Stamped R-16 1935" Painted U.S.B.M. 1774,2 on sign post.

## DESCRIPTION OF BENCH MARK

Character of mark Bronze Disk

Established by
United States Geological Survey
Detailed description 0.15 miles southeest along the Tucson, Cornelia, and Gila Bend Rallroad
from the station at Aio, to Highway 86, thence 1.9 miles east along Highway 86 to the
function of the Darby Wells Road, thence 3.85 miles southwest and south along the
Derby Wells Road to the Pates Well, at a "Y" function of the main road and a dim road
leading south-scuttenst, 23% feet east of the center line of the main road and a dim road
whest of the center line of a dim road leading south-southeast, 1.9 feet north of the
witness post, in the top of a concrete post projecting 0.4 foot, and about 1 foot
higher than the road.

State Arizona from nearest town 6.9 miles south County Pime mark Bronze Disk 00

or, S. Coast and Geodetic Survey

U. S., Coast and Geodetic Survey

Hallmoud from the station at Ajo to Highway 69, thence 1.9 mile east

along Aighway 66 to the junction of Darby Wells Road, thence 4.85

miles southwest and south along the Darby Well Road, at the outside
of curve in the road, 33 feet west of the centerline of the road,
2.5 feet north of the Wilness yost, in the top of a concrete post

projecting 0.4 feet and about 12 feet higher than the road,

County

Stamping J 307 1952

PAGE NO.

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COAST AND GEODETIC SURVEY
WASHINGTON D.C.

VERTICAL CONTROL DATA

Coast and Geodetic Survey by the

PAGE NO.

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LATITUDE 32°00' to 32°30' LONGITUDE 112°30' to 113°00' DIAGRAM NI 12-10 AJO QUAD 321123

Line 102

#### DESCRIPTION OF BENCH MARK

Detailed description 0.15 miles southeast along the Tucson, Cornelia, and Gila Bend Bailroad from the station at Ajo to Highway 86, thence 1.9 miles east along Highway 86 to junction of Darby Well read, thence 5.7 miles southwest and south along Darbey Well Road leading to Bates Well, 25% southwest and south along Darbey Well Road leading to Bates Well, 25% the twest of the centerine of main road, 7% feet west of the centerine of main road, 7% inch iron pipe set in the center of a pile of rocks cemented togeter, projecting 3.5 feet above ground, and about 3 feet higher than the road. Designation 1759.8 (USGS) State Arizons Nearest town Ajo County Pims Distance and direction from nearest town 7.75 miles south Character of mark Aluminum Cap U. S. Geological Survey Stamping County NWC ExA Pima

## DESCRIPTION OF BENCH MARK

Detailed description 0.15 mile southeast along the Tucson, Cornelia, and Gila Bend Detailed description 0.15 mile southeast along the Highway 86, thence 1.9 miles east along Highway 86 to junction of Darby Well road, thence 5.8 miles southwest and south along Darby Well road leading to Bates Well, at a slight curve in the road and junction of dim road leading southeastheasts, 30 feet east of the centerline of main road, 12% feet northeast of the centerline of dim road leading southsoutheast, 2.1 feet north of the witness post, in the top of a concrete post projecting 0.4 foot, and about 1 foot higher than the road. Distance and direction from nearest town 7.85 miles south Character of mark Bronze Disk Designation U. S. Coast and Geodetic Survey 至 307 Ajo State Arizona County Pina Stamping K 307 1952 County Pina

#### DESCRIPTION OF BENCH MARK

Well Rosd leading to Eates Well 282 feet northwest of the center line of the new road, 125 feet southeast of the center line of the old road, 1.7 feet north of the witness post, and in the top of a concrete post projecting 0.5 foot, and about 1 foot higher than the road.	Established by United States Geological Survey  Detailed description 0.15 miles southeast along the Tucson, Cornella, and Gile Bend Railroad  Detailed description at Ajo to Highway 66, thence 1.9 miles east along Highway 86 to the	Nearest town Distance and direction from nearest town Character of mark Bronze Disk	
0 4 4 8	0 68	res	83
200	80	K to	_
TO G	Huth	, ×	
# 5 F	pwd sees		
G 29 2	A 8 8 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	8.65 m	State
ner	lor 36,	E	
111	E 8	leg	
900000000000000000000000000000000000000	the pac	8	Ariz
of	Tu Tu	8.65 miles south	Arizons
the the	9 0	р	18
0 0 0 0	111		
of H et	Cor		_
ng ng	nel	Stan	County Pima
0 0 0 0	0 0 0	npin	nty
for for	Top	(FQ	
fee	H C	R	Pin
2 0 0	igh	8	D
de	Be	Stamping R 18 1930	
bou de	98 ba		
H + + + + + + + + + + + + + + + + + + +	Rai		
P 0 4	th th		
9	e p		

Nearest town

Ajo

County

Pima

Character of mark Copper mail and washer

Character of mark Copper mail and washer

U. S. Geological Survey

U. S. Geological Survey

Detailed description 0.15 mile southeast along the Tucson, Cornelia, and Gila Bend

Reilroad from the station at Ajo to Highway 86, thence 1.9 miles east

along the highway 86 to junction of road to Darby Well, thence 5.6

miles southwest and south along road to Darby Well leading to Bates

Well, at a "I" of main road and a road leading south, 69.9 feet

southwest of U.S.G.S. R 16, 26½ feet southeast of the centerline of

the old road, 21½ feet northwest of the centerline of the new road,

a copper nail and washer set in top of a 4 x 4 foot post projecting Distance and direction from nearest town 8.65 miles south 0.7 foot, and about 1 foot higher than road. Ajo R 18 RM (USGS) DESCRIPTION OF BENCH MARK State County Pine Arizona County Pine

#### DESCRIPTION OF BENCH 콧

						4 4	Detailed de	Established	Character o	Distance an	Nearest town	Designation
higher than the road.	in the top of a concr	the centerline of the	feet northwest of the	scuthwest and south a	along Highway 86 to j	Railroad from the stat	scription 0.15 mile sout	Established by U. S. Coast and Geodetic Survey	Character of mark Pronze Disk	Distance and direction from nearest town 9.65 miles south	n Ajo	L 307
	in the top of a concrete post projecting 0.5 foot, and about 1 foot	the centerline of the old road, 2.0 feet south of the witness post,	feet northwest of the centerline of new road, 16 feet southeast of	southwest and south along Darby Well Hoad leading to Bates Well, 38	along Highway 86 to junction of Sarby Well Road, thence 7.6 miles	Railroad from the station at Ajo to Highway 86, thence 1.9 miles east	Detailed description 0.15 mile southeast along the Tucson, Cornelia, and Cila Bend	Geodetic Survey		wn 9.65 miles south	County Plans	State Arizona
	foot, and abou	th of the witne	, 16 feet south	ading to Bates	oad, thence 7.6	86, thence 1.9	Cornelia, and		Stamping			onty
	ut 1 foot	ess post,	heast of	Well, 38	5 miles	miles east	Gila Bend		Stamping L 307 1952			Pima

## DESCRIPTION OF BENCH MARK

Arizona

County

Pime

M 307

2.0 feet north of the witness post, in the top of a concrete post pre- jecting 0.4 foot, and about & foot higher than the road.	miles southwest and south along Darby Well Road leading to Bates Well, 66 feet west of the centerline of new road, 42 feet east of a small wash,	east along Highway 86 to junction of Darby Well road, thence 8.4	Established by U. S. Coast and Geodetic Survey.  Detriled description 0.15 mile southeast along the Tucson, Cornealia, and Gila Bend	Distance and direction from nearest town 10.45 miles source Character of mark Bronze Disk  Character of mark Bronze Disk	Nearest town Ajo County Pine

### DESCRIPTION OF BENCH MARK

× ×	
closst & Geodetic Survey theast along the Tuescn, Cor Highway 86, thence 1.9 mile the May 307, thence 0.25 mi to mad and center of a wash and 0.3 foot above the ground	Distance and direction from nearest town 10.7 miles south Character of mark Bronze Disk Stamping
Gila Band Railroad ang Highway 86 to the along Darby Well ross country, 90 feet northwest of the and set in the top at 1 foot higher than	Stamping <b>E 109 1935</b>
is."	

the old road.

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VERTICAL CONTROL DATA

Coast and Geodetic Survey SEA-LEVEL DATUM OF 1929

# U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

DESCRIPTION OF BENCH MARK

County Distance and direction from nearest town 11.75 miles south State Arizona County Pina Nearest town Designation

U. S. Coast and Geodetic Survey Character of mark Bronze Disk Established by

Stamping N 307 1952

Pima

1.35 miles southwest of the B. M. 307 along the new road, 0.05 mile south-mest of "Y" function and set in the fork of the "Y" 152 feet southeast of the centerline of road leading southwest, 46 feet west of the centerline of the road leading south to Bates Well, 1.9 feet west of the witness post, in a concrete post projecting 0.3 foot, and about level with the road. Detailed description 0.15 miles southeast along the Tucson, Cornella, and Gila Bend Rallroad from the steiton at 430 to Highway 86; thence 1.3 miles east along Highway 86 to junction of Darby Well Road, thence 9.7 miles southwest and south along Darby Well road žeading to Bates Well, to a "T" junction.

#### DESCRIPTION OF BENCH MARK

F 109 1935 Stamping County Character of mark Bronze Disk Established by United States Coast & Geodetic Survey Arizona Nearest town AJO County Final Distance and direction from nearest town 12.75 miles south Pima State Nearest town Designation

Detailed description 0.15 mile southeast along the Tucson, Cornella, and Gila Bend Railroad from the station at Ajo to Highway 86, thence 1.9 miles east along the Highway 86 to the junction of a road leading south to Darby Well, thence 10.7 miles southwest and south along a road leading to Darby Well and Hess Well, 248 feet east of the center line of the new road, 27% feet west of the old road, 1.6 feet north of a witness post, and set in the top of a concrete post projecting 0.4 foot above the ground, and about level with the road,

#### DESCRIPTION OF BENCH MARK

County State Arizona Ajo Nearest town Designation

Distance and direction from nearest town 13,75 miles south

Character of mark Bronze Disk
Established by U. S. Coast and Geodetic Survey
Detailed descripton 0.15 mile southeact along through Cornelia, and Gila Bend
Rallroad from the station at Ajo to Highway 86, thence 1.9 miles east along
Highway 86 to road leading south to Barby Well, thence 11.7 miles southwest,
and south along the read leading to Derby and Bates Wells, 47 feet west of the
centerline of the old road, 45 feet southeast of the centerline of the new
road, 2.2 feet east of a withess poet, in a concrete post projecting 0.2 foot,
and about level with the road.

DESCRIPTION OF BENCH MARK

G 109 1935 Pina Stamping County Nearest town Ajo County \*\*Ima
Distance and direction from nearest town 14.8 miles south
Established by United States Coast & Geodetic Survey Pima State G 109 Designation Nearest town

Established by United States Coast & Geodetic Survey
Detailed description 0.15 mile southeast along the Tucson, Cornelia, and Gila Bend Railroad
from the station at Ajo to Highway 86, thence 1.9 mile sest along Highway 86 to the
junction of a road leading south to Darby Well, thence 12,75 miles southwest and south
along Darby Well and Bates Well road, 0.15 mile north of the cattle guard for the
Organ Plpe dectus Mathonal Monument, 305 feet east of the center line of the new road,
302 feet northwest of the center line of the old road, 1.5 feet north of the witness
poot, and about 22 feet lower than the new road, and set in the top of a concrete post
projecting 0.5 foot above the ground.

by the

LONGITUDE 12°30' to 32°30' DIAGRAM NI 12-10 AJO QUAD 321123

PAGE NO.

DESCRIPTION OF BENCH MARK

State Arizona County Pims

Nearest town

County

Distance and direction from nearest town 15.9 miles south

Character of mark Bronze Disk Established by U. S. Coest and Geodetic Survey Detailed description-15 mile southeast along the Tucson, Cornella, and Gila Bend Railroad from the station at Ajo to Highway 86, thence 1.9 miles east along Highway 86 to the junction of the Darby Well Road, thence 15.85 miles southwest a and south along the Darby Well Road, thence 15.85 miles southwest a and south along the Darby Well and Betes Well Road, on the outside of a curve, 27½ feet southeast af the centerline of the road, 2.4 feet northeast of the withest post, in a concrete post projecting 0.3 foot, and about level with the road.

### DESCRIPTION OF BENCH MARK

tablished by Cunted States Coast & Geodetic Survey

(united States Coast & Geodetic Survey

tabled description 0.15 mile southeast along the Tucson, Cornelia, and Gile Bend Railroed

a from the station at Ajo to Highway 65, thence 1.9 miles east along the Highway 86 to

a function of Darby Well Road, thence 1.49 miles southwast and south along the Darby

West of a "Y" junction of a better road and the Bates Well Road, 0.25 mile south

of the Garbar or a "Y" function of the road sed leading east, northeast, and west, 98

feet south of the road leading east from the center line of Bates Well Road, 51g

feet south of the center line of the road leading east, 1.7 feet east of a witness

post, and set in the top of a concrete post projecting 0.3 foot above the ground,

and about level with the road. H 109 1935 Pima Stamping County Arizona County Fime 16.95 miles south Distance and direction from nearest town Character of mark Bronze Disk Detailed description Established by Nearest town Designation

#### DESCRIPTION OF BENCH MARK

Stamping R 307 1952 County Distance and direction from nearest town 17.9 miles south State Arizona County Pima Character of mark Bronze Disk R 307 Designation

Established by U.S. Cosst and Geodetic Survey
Detailed description 0.15 mile southeast along the Tucson, Cornelia, and Gila
Bend Reilroad from the station at Ajo to Highway 86, thence 1.9 mile
sest along Highway 86 to "I" junction of Read South to Darby Well, thence
15.95 miles southwest and south along the Darby Well and Bates Well, road,
at a small draw at a low, rocky ridge, 71 feet east of the centerline of
road, 2.0 feet southwest of the witness post, in a concrete post projecting
0.3 foot, and about 1½ feet higher than the road.

#### DESCRIPTION OF BENCH MARK

Stamping **K** 110 1935 Pina County Character of mark Bronze Disk Established by United States Coest & Geodetic Survey Arizona County Pima 18.4 miles south State Distance and direction from nearest town K 110 Nearest town Designation

Detailed description 0.15 miles southeast along the Tucson, Cornelia, and Gila Bend Railroad from the station at Ajo to Highray 86, thence 1.9 miles east along Highray 86 to the junction of Darby Well Road, thence 16.35 miles southwest and south along the Darby Well and Bates Well Road, 41½ feet southeast of the center line of the main road, 12% feet east of the center line of the main road, 13% feet east of the center line of the road leading to Growler Cenyon, 2.1 feet east of a witness post, in a concrete post projecting 0.4 feet, and about level with the road.

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AND GEODETIC SURVEY

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LATITUDE 32°00' to 32°30' to 113°00'

Line 102

AJO

DIAGRAM NI 12-10

#### WASHINGTON D.C U.S. DEPARTMENT OF COMMERCE

RECOVERY NOTE, BENCH MARK State Arizona

Nearest town A.JO
Distance and direction from nearest town 19.55 miles south
Character of mark A C&GS Eench Mark Disk

County Pima

N

DESCRIPTION OF BENCH MARK

State

Pima Ariz one

Chief of Party D. Moncevicz Recovery Date January 1962 Stamping K 109 1935

Distance and direction from nearest town 33.45 miles northwest Character of mark Bronze Disk Established by U. S. Coast and Geodetic Survey

Stamping **D 312 1952** 

Detailed description 0.95 mile north along the Sonoyta-Ajo Highway from the Post

road to a large wash and end of truck travel, 208 feet southeast of the center of a large wash, 192 feet southeast of the centerline of the road, office at Lukeville to junction, thence 14.05 miles west to Quitovoquito and "Y" junction, thence 14.35 miles north along Bates Well road to "Y" junction, thence 4.1 miles northeast along the old (very dim) Bates Well

9.1 feet northwest of a wire fence, 2.2 feet northwest of a witness post, a bronze disk brazed to the top of a 3 inchiron pipe projecting 0.6 foot.

Detailed report About 0.15 mile southeast along the Tucson, Cornelia and Gila Bend Railroad from the station at Ajo; thence 2.4 miles southeast along State Highway 85; thence 1.9 miles southwest along an oiled road; thence 15.1 miles southwest and south along a graded dirt road to Eates Well and Henry Grays ranch house, about 0.2 mile west of the most easterly of three wells, 312 feet south of the southwest corner of Henry Grays ranch house, 57 feet south of the center of the junction of the trail road and a trail road leading east, 10 feet ast of the center line of a north-south trail road, 19 feet northwest of an 18-inch forked tree at the west side of an old shack, at the west side of an old wooden fence, about level with the trail road, and set in the top of a concrete post projecting 2 Present condition Good Established by C&GS

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

#### RECOVERY NOTE, BENCH MARK

Nearest town Ajo County Pima Distance and direction from nearest town 19.75 miles south Character of mark A General Land Office Cap Established by General Land Office Designation T14S R7W (G.L.O.) State Arizona

Chief of Party D. Moncevicz
Recovery Date January 1962
Stamping T14S R7W S26 S25
S35 S36 31

County Pima

Z

Detailed report About 0.15 mile southeast along the Tucson, Cornelia and Gila Bend Railroad from the station at Ajo; thence 2.4 miles southeast along State Highway 85; thence 1.9 miles southwest along an oiled road; thence 15.1 miles southwest and south along a graded dirt road to Eates Well and Henry Grays ranch house; thence 0.2 mile northeast along a trail road, about 0.25 mile northeast of Henry Grays ranch house, 147.2 feet northwest of Bench Mark J 109, 13 feet south of the center line of the trail road, 8 feet southeast of an old trail road leading northeast, about 1 foot above Present condition Good the level of the trail road, a cap on a metal pipe.

NOTE: Not leveled over by this party in 1962.

COAST AND GEODETIC SURVEY

#### RECOVERY NOTE, BENCH MARK

Nearest town Ajo County Pima County Pima Distance and direction from nearest town 19.75 miles south Designation J 109 Nearest town A Jo Character of mark A C&GS Bench Mark Disk State Arizona

Established by C&GS

Chief of Party D. Moncevicz Recovery Date January 1962 Stamping J 109 1935 Pima

N

Bend Railroad from the station at Ajo; thence 2.4 miles southeast along state Highway 85; thence 1.9 miles southwest along an oiled road; thence 15.1 miles southwest and south along a graded dirt road to Eates Well and Henry Grays ranch house; thence 0.2 mile northeast along a trail road, 1.05 miles east of a 4x4-inch white wooden reference post which projects feet and is numbered 50, about 0.25 mile northeast of Henry Grays ranch house, about 0.2 mile north of the most easterly of three wells, 2 feet southwest of the center line of the trail road, 191 feet northeast of a fence corner, 147.2 feet southeast of Ti4S R7W (Gi.C.), 1.0 feet south of a metal witness post; about level with the trail road, and set in the top of a concrete post projecting 3 inches. Present condition Good

Detailed report About 0.15 mile southeast along the Tucson, Cornelia and Gila

#### DESCRIPTION OF BENCH MARK

Distance and direction from nearest town 20,55 miles south Character of mark A C&GS Bench Mark Disk Established by C&GS County Pima State Arizona Chief of party D.

stamping L 342 1961 Moncevicz

Detailed description About 0.15 mile southeast along the Tucson, Cornelia and Gila Bend Railroad from the station at Ajo; thence 2.4 miles southeast along State Highway E; thence 1.9 miles southwest along an oiled road; thence 15.1 miles southwest and south along a graded dirt road to Bates Well and Henry Grays ranch house; thence 1.0 mile west along a trail road, 0.15 mile west of a 4x4-inch white wooden reference post which projects 16 feet and is numbered 50,0.4 mile northeast of an abandoned mine, 148 feet south of the center line of the trail road, 12 feet west of a rock cairn, about 40 feet above the level of the trail road, set in the top of a rock outcrop on top of a rocky knoll and projects 6 inches.

### DESCRIPTION OF BENCH MARK

Established by Character of mark Distance and direction from nearest town Nearest town United States Coast & Geodetic Survey Bronze Disk Lukeville S2.45 miles northwest Stamping L 109 1935

Detailed description 0.95 mile north along the Sonoyta-Ajo Highway from the Post Office at Inkewille to a junction, thence 14.05 miles west to Quitoroquito and a "T" junction, thence 14.35 mile s north along Bates Well Road to a "T" junction, thence 5.1 mile northeast along the old(very dim) Bates Well Road, and about 1 mile west of a deeply cut saddle in the mountains, 24g feet southeast of the center line of the road, 1.7 fest north of a witness post, and set in the top of a concrete post projecting 0.3 foot above the ground., and about level with the road.

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# VERTICAL CONTROL DATA

by the

Coast and Geodetic Survey SEA-LEVEL DATUM OF 1929

QUAD 321123

INTITUDE 32°00' to 32°30' LONGITUDE 112°30' to 113°00' DIAGRAM NI 12-10 AJO

#### DESCRIPTION OF BENCH MARK

chief of party D. Moncevicz Leveling date January 1962 stamping M 342 1961 Nearest town Ajo Distance and direction from nearest town 21, 4 miles southwest Character of mark A C&GS Eench Mark Disk State Arizona

Detailed by C&GS.

Stabilished by C&GS.

Detailed description About 0.15 mile southeast along the Tucson, Cornella and Detailed description About 0.15 mile station at Ajo; thence 2.4 miles southeast along state Highway 5; thence 1.9 miles southwest along an oiled road; along State Highway 5; thence 1.9 miles southwest and south along a graded dirt road to Bates thence 1.87 miles went and thenry Grays ranch house; thence 1.85 miles west along a trail well and Henry Grays ranch house; thence 1.85 miles west along a trail reference post which projects 16 feet and is numbered 49, 1.0 mile west of a wast of an abandoned mine, 123 feet north of south in of the trail road, 18 feet south of a rock cairn, about 20 center line of the trail road, set flush in the top of a rock outcrop on the scuth slope of a rocky knoll.

LINE 103

### DESCRIPTION OF BENCH MARK

Distance and direction from nearest two, 17.5 miles southeast Stamping N 309 1952.

Character of mark Sheef Brass Disk Stabilished by United States Coast & Geodetic Survey Cornella & Cila Bend Hallroad Detailed description 0.15 miles southeast along the Childray 86, thence 16.35 miles southeast along Highway 86 to the intersection of road north and road south to Kerwoo, thence 1 mile south along a road leading south to Kerwoo, 48½ feet southwest of the center line of the road, 2.1 feet north of the witness post, and about level with the road, and set road, 2.1 feet north of the Witness Post, and about level with the road, and set County Fina 17.5 miles southeast in a concrete post projecting 0.4 foot. State

#### DESCRIPTION OF BENCH MARK

Nearest town Ajo
Distance and direction from nearest town 22. H miles southwest Leveling date January 1962
Character of mark A C&GS Eench Mark Disk Established by CeCS.

Betailed describtion About 0.15 mile southeast along the Tucson, Cornella and Gila Bend Railroad from the station at Aj, thence 2.4 miles southeast along State Highway 85; thence 1.9 miles Southwest along an oiled road; along State Highway 85; thence 1.9 miles Southwest along an oiled road; thence 15.1 miles Southwest and south along a graded dirt road to Eates well and Henry Grays ranch house; thence 2.85 miles southwest along a trail road, 1.3 miles east of a 4x4-inch white wooden reference post trail road, 1.3 miles east of a 4x4-inch white wooden reference post which projects 16 feet and is numbered 49, 0.3 miles southwest of the southwest of an abandoned mine, 63 feet northwest of the center line of the trail road, 1.7 feet northeast of a metal witness post, about 1.2 feet above the level of the trail road, and set in the top of a concrete post projecting 6 inches.

## DESCRIPTION OF BENCH MARK

Nearest town Ajo County Pime States town 18.35 miles southeast Stamping U 309 1952
Character of mark Sheet Breas Disk Character of mark Sheet Breas Disk
Character of mark Sheet Breas Disk
Character of mark Sheet Breas Disk
Character of mark Sheet Breas Disk
Established by United States Coast & Geodetic Survey
Cfrom the station oils miles southeast along the Tucson, Cornella & Gila Bend Railroad
Detailed description Oils miles southeast along Highway
from the station at Ajo to Highway 86, thence 16.35 miles southeast along Highway
from the station at Ajo to Highway 86, thence 16.35 miles south to Ker66 to an intersection, thence 1.25 miles south along a road leading south to Ker66 to an intersection, thence 1.25 miles south along a road leading south to Ker66 to an intersection, a large outcropy (lava) at the edge of the road, and at the
the top of the center of a large outcropy (lava) at the edge of the road, 26
fet southwest of a telephone pole where the telephone line corses the road, 26
fet southwest of the center line of the road, and about 1½ feet higher than the
road, and marked with white painted letters B M. County Artzona Pima State

### DESCRIPTION OF BENCH MARK

Distance and direction from nearest town 19.55 miles southeast Stamping T 309 1952
Character of mark Broate Disk
Character of mark United States Cost & Geodetic Survey
Established by United States Cost & Geodetic Survey
Crait the station o.15 illes southeast along the Tucson, Cornelia & Gila Bend Railroad
Detailed description 0.15 illes southeast along the Tucson 6.35 miles southeast along Highway
from the station at Ajo to Alchway 86, thence 16.35 miles south to Kerwoo, thence
85 to an intersection of a road north and a road leading south to Kerwoo, thence
85.05 miles south along a road leading south to Kerwoo, 44½ feet east of the center
11nc of the road, 2 feet north of the witness post, and about \$\frac{1}{2}\$ foot lower than
the road, and set in a concrete post projecting 0.4foot. Arizona Pima

# DESCRIPTION OF BENCH MARK

State Arizona County Pima State Lukeville C 312

Distance and direction from nearest town 31.5 miles northwest Stamping C 312 1952 (Character of mark Bronze Disk Established by U. S. Coast and Geodetic Survey
Established by In. S. Coast and Geodetic Survey
Detailed description 0.95 mile north along the Sonoyta-4jo highway from the post office at lukeville to junction, thence 14.35 miles north along Bates Wall Road to "Y" junction, thence 2.21mile northbast hong the ong Bates Wall Road, 22.2 feet northwast of the centerline of road, 2.2 feet south of the witness post, a bronze Disk brazed on top of a 3 inch iron pipe projecting 0.7 foot and about \$\frac{1}{2}\$ foot higher than the road.

WASHINGTON D.C U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY PUBLISHED AND PRINTED BY:

#### VERTICAL CONTROL DATA by the

Coast and Geodetic Survey SEA-LEVEL DATUM OF 1929

PAGE NO.

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321123

LATITUDE 32°00' to 113°00'

Line 103

DIAGRAM

NI 12-10

AJO

### DESCRIPTION OF BENCH MARK

Detailed description This mark was not found, a new road has been constructed Established by Character of mark Distance and direction from nearest town United States Coast & Geodetic Survey Bronze Walls Well Disk 3.3 miles northeast Pima Arizona Stamping County Pima M 110 1935

About 3.3 ml E & N, from Walls Well, along Bates Wells - Walls Well and Kerwo roads, about 3.1 ml S of the Tucson-Ajo Highway, along Kerwo road, 0.7 ml S of a wash at the south toe of and about 150 feet S of the center of a small hill, 56 ft E of the centerline the road. A concrete post.

Date 1/6/ ...covered as described By 4. S. G.S.

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

#### RECOVERY NOTE, BENCH MARK

Z

State Arizona County Pima

Nearest town Ajo County Pima Chief of Party D. Monoevicz Distance and direction from nearest town 20.55 miles southeast Recovery Date November 1961 Character of mark A CMGS Bench Mark Disk Stamping S 309 1952 Designation S 309 Nearest town A jo

Present condition Established by C&GS Good

Detailed report About 0.15 mile southeast along the Tucson, Cornelia and Gila Bend Railroad from the station at Ajo; thence 10.8 miles southeast along State Highway 85; thence 5.55 miles southeast along State Highway 86; thence 4.05 miles southeast along a graded dirt road; 1.1 miles north of junction of roads, 48 feet west of the center line of the road, 87 feet south of a telephone pole, 0.7 foot west of a metal witness post, about level with the road, and set in the top of a concrete post projecting 3

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

#### RECOVERY NOTE, BENCH MARK

Z

TOAGT MINT

Distance and direction from nearest town Nearest town AJO Designation N 110 County Pima Chief of Party D. Moncevicz on from nearest town 21.65 miles southeast Recovery Date November 1961 A CMGS Bench Mark Disk Stamping N 110 1935 State Arizona County Pima

Established by Character of mark Cags

Detailed report About 0.15 mile southeast along the Tucson, Cornelia and Gile Bend Railroad from the station at Ajo; thence 10.8 miles southeast along State Highway 85; thence 5.15 miles southeast along State Highway 86; thence 5.15 miles southeast along a graded dirt road; at the junction of the road and a trail road leading south, 57 feet southwest of the center line of the road, 58 feet east of the center line of the trail road, 1.1 feet southwest of a metal witness post, about level with the roads, and set in the top of a concrete post projecting 8 inches. Present condition Good

## DESCRIPTION OF BENCH MARK

post projecting 0.4 foot.

Detailed description 0.15 miles southeast along the Tucson, Cornelia & Gila Bend Railroad from the station at Ajo to Highway 86, thence 16.35 miles southeast along Highway 86 to an intersection of roads leading north and south to Kerwoo, thence 5.15 miles south along the Kerwoo Road to a "Y" junction of a road leading southwest to Walls

Well, thence 0.35 miles southwest along a road leading southwest to Walls Well, 1.1 miles northeast of Walls Well, 59 feet east of the center line of the road, 1.5 feet

west of the witness post, and about 2 feet higher than the road, and set in a concrete

Character of mark

Bronze Disk

Established by

United States Coast & Geodetic Survey

22 miles southeast

Stamping

P 110 1935

Pima

County

Pima

Distance and direction from nearest town

Ajo

DESCRIPTION OF BENCH MARK

Nearest town

Distance and direction from nearest town Nearest town Ajo 23.1 miles southeast Pina Artzona County R 309 1952 Pima

Character of mark United States Coast & Geodetic Survey Bronze Disk Stamping

Detailed description 0.15 miles southeast along the Thoson, Cornelia & Gila Bend relirond from the station at Ajo to Highway 86, thence 16.35 miles southeast along the Highway 86 to an intersection of road north and south, thence 5.15 miles south along a way 86 to an intersection of road north and south, thence 5.15 miles south wells Well road leading to Kerwoo to a "Y" junction of a road leading southwest to Walls Well and thence 1.45 miles southwest allong a road leading to Walls Well, at Walls Well and near the northeast cornsr of a corral, 162 feet southeast of the center line of the road leading west to Eates Well, 7.2 feet southwest of the northeast corner of a pole corral, 1.8 feet northwest of the pole corral fence, 1.7 feet east of the witness post, and about level with the road, and set in a concrete post projecting 0.2 foot.

### DESCRIPTION OF BENCH MARK

Established by Detailed description from the ste to a "Y" jun along the Sc track road 1 west of the	Nearest town  Nearest town  Nearest town  Nearest pistance and direction from nearest  Distance and direction from Pisk  Character of mark  Bronze Disk	Designation
United States Cost, to 1.15 miles souther to 1.15 miles souther to 1.15 miles souther to 1.15 miles	Nearest town Distance and direction from nearest town Character of mark Bronze Disk	Ø 110
Established by United States Coast & Geodetic Survey  Established by United States Coast & Geodetic Survey  Established by United States Coast & Geodetic Survey  Detailed description 0.15 miles southeeast along the Tucony, Cornelia & Gila Bend Railroad  from the station at Ajo to Highway 86, thence 10.8 miles southeast along Highway 88  from the station of Sonoyta-Ajo Highway leading south, thence 9.15 miles east along a  along the Sonoyta-Ajo Highway to an intersection, thence 5.55 miles east along a  along the Sonoyta-Ajo Highway to an intersection, thence Walls Well, 50% feet south  track road leading east to Walls Well, 0.95 mile west of Walls Well, 50% feet south  west of the center line of the road, 1.6 feet north of the witness post, and about	County Pins 25.75 miles southeast	State Arizona
Cornelia & Conth thence softh without of Walls Vest of Walls Vest of conth witnes		County
His Bend Railroad ist along Highway 8 il miles south les east along a fell, 30g feet south is post, and about oot.	Stamping <b>Q 110 1935</b>	Pine

## DESCRIPTION OF BENCH MARK

from the station at Ajo to Highway 80, thence 10.8 mines southeast along the convita-Ajo Highway to an it	Detailed description 0.15 miles sout	Character of mark Bronze Disk	Distance and direction from nearest town	Nearest town Ajo	Designation Q 309
15 miles south along the	heast along the Tucson,	onst & Geodetic Survey	24.65 miles southeast		State Arizons
Sonoyta-A	ornelia &	Stamping			County
o Highway	Gila Bend	Stamping & 309 1932			Pima
to an i	hailros	20	3		

section, thence 4.55 miles east along a track road leading east to Walls Well, at a point where the road crosses a wash, 98g feet southwest of the center of a road and a wash crossing, 32g feet south of the center line of the road, 2.8 feet north of the witness post, and about level with the road, and set in a concrete post projecting 0.2 foot. ay 86

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VERTICAL CONTROL DATA

Coast and Geodetic Survey SEA-LEVEL DATUM OF 1929

by the

PAGE NO. QUAD 321123

ATTITUDE 32°00' to 32°30' LONGITUDE 112°30' to 113°00' DIAGRAM NT 12-10 AJO DIAGRAM NI 12-10

Stamping **B 509 1952** 

Distance and direction from nearest town 21.0 miles southeast Character of mark Bronze Disk

Nearest town Designation

County Pima

State

County

DESCRIPTION OF BENCH MARK

### DESCRIPTION OF BENCH MARK

Stamping R 110 1935 County County Pina 23,55 miles southeast Distance and direction from nearest town 23.55 miles southes Character of mark Bronze Disk Established by United States Coast & Geodetic Survey Arizona Ajo Nearest town

Detailed description 0.15 miles southeast along the Tucson, Cornella & Gila Bend Railrock d from the station at Ajo to Highway 86, theance 10.6 miles southeast along Elghway 85 to a "T" junction, thence 9.15 miles south along the Sonoyte. Ajo Highway to an intersection, thence 3.45 miles east along a track road leadings east to Walls Wall, at a slight turn in the road and north of gunsight peak, 22% feet north of the center line of the road, 1.3 feet south of the witness post, and about level with the road, and set in a concrete post projecting 0.5 foot.

#### DESCRIPTION OF BENCH MARK

Stamping **P 309 1952** County County Flma 22,45 miles southeast Character of mark Bronze Disk Established by United States Coast & Geodetic Survey Artzona Distance and direction from nearest town Established by Nearest town Designation

Detailed description 0.15 miles southeast along the Fucson, Cornella & Cila Bend Railroad from the efaction at Ajo to Highway 86, thence 10.8 miles southeast abong Highway 86 to a "Y" junction, thence 9.15 miles south along fonoyta-4/o Highway to an interaction, thance 2.25 miles east along atrack road leading east to Walls Well, at a point where the road crosses a weah, 99 feet northeast of the center of the road and wash crossing, 21 feet north of the conter line of the road and wash crossing, and about level with the road, and set in a concrete post projecting

#### DESCRIPTION OF BENCH MARK

Pima

County County Pima 21.45 miles southeast Nearest town Designation

Distance and direction from nearest town

Character of mark Fronze Disk
United States Coest & Geodetic Survey
Detailed description 0.15 miles southeast slong the Tucson, Cornelia & Cita Bend Railroad
From the station at Ajo, to Highway 86, thence 10.8 miles southeast slong Highway
86 to a "F" junction, thence 9.15 miles south along the Ponovia-Ajo Highway to an
intersection, thence 1.25 miles east along a track road, at a point where a small
intersection, thence 1.25 miles east along a track road, at a point where a small
mash crosses the road, 54g feet southmest of the canter of a road and wash, 28 feet
shuth of the center line of the road, 1.5 feet north of the witness post, and about g foot higher than the read, and set in a concrete post projecting 0.2 foot.

RECOVERY NOTE, BENCH MARK DEPARTMENT OF COMMERCE U. S. Coast and Geoderic Survey Forms 686 A.

Stamping K 309 1952 County Pina Nearest town .4.36 County Plane
Distance and direction from nearest town 20.4 miles southeast County Plans Designation

Nov. 1953

U. S. Coast and Geodetic Survey Character of mark Bress disk Established by U. S. Present condition Good

from the station at Ajo, thence 10.75 miles southbeast along State Highway 86, thance 9.0 miles south along the State Highway 86, thance 9.0 miles south along the Scoopte-Ajo highway, thence 0.5 mile east along a track read, 70g feet southbeast of the center of a small weah, 29 feet north of the center line of the road, 2.1 feet south of a vitness pret, about ½ foot higher than the road, and set in the top of a concrete post projecting 0.2 foot above the Detailed report

Note: This mark was recovered by the mark setter as an extra tie mark. It was not laveled to during the 1953 leveling in this vicinity. ground

### DESCRIBITION OF BENCH MARK

south of the centerline of track road, 1.9 feet north of the witness post, in a concrete post projecting 0.2 foot, and about level with the road.

road, 0.9 mile west of the intersection of Sonoyta-Ajo Highway, 31 feet

Established by U. S. Coast and Geodetic Survey
Detailed description 0.15 mile southeast along the Tucson, Cornella, and Gila Bend
Raliroad from the station at Ajo to Lighway 86, thence 10.8 miles southeast along the cast along Highway 86 to "Y" junction, thence 9.15 miles south along the Sonoyta-Ajo Highway to Intersection, thence 0.9 mile west along track

Stamping **F** 309 1952 County State Artzone County Pina Distance and direction from nearest town 21.9 miles south U. S. Coast and Geodetic Survey State Character of mark Bronze Disk Ajo Established by

Railroad from the station at Ajo to junction, thence 10.8 miles southeast Detailed description 0.15 mile southeast along the Tucson, Cornelia, and Gila Bend Alo Highway to intersection, thence 1.8 miles west along track road, 40 feet north of the centerline of road, 2.2 feet south of the witness post, in a concrete post projecting 0.3 foot, and about level with the road. along highway 86 to "Y" junction, thence 9.15 miles south along Sonoyta-

#### DESCRIPTION OF BENCH MARK

Established by U. S. Coast and Geodetic Survey
Detailed description 0.15 mile southeast along the Tucson, Cornelia, and Gila Bend
Railroad from the station at Ajo to junction, thence 10.8 miles southeast
along Highway 86 to "I" junction, thence 9.15 miles south along Sonoyta-Ajo Stamping **G 309 1952** south of the centerline of the road, 2.3 feet north of the witness post, in a concrete post projecting U.S fort, and about level with the road. Highway to intersection, thence 2.7 miles west along track road, 41 feet Pima County Arizona Distance and direction from nearest town 22.8 miles south State Character of mark Bronze Disk Nearest town

## DESCRIPTION OF BENCH MARK

Distance and direction from nearst town 23.6 miles south Stamping R 22 1930 Character of mark Bronze Disk Established by U. S. G. S. Established by U. S. G. S. Detailed description 0.15 mile southeast along the Tucson, Cornella, and Gila Bend Detailed description 0.15 mile southeast along Highway 86 to Ballroad to function, thence 10.8 miles southeast along Highway 86 to Ballroad to function, thence 10.8 miles southeast along Highway 86 to Ballroad to function, thence 10.8 miles southeast along Highway 86 to Ballroad to function, thence 10.8 miles southeast along Highway 86 to Ballroad to function, thence 10.8 miles southeast along Highway 86 to Ballroad to function, thence 10.8 miles southeast along Highway 86 to Ballroad to function, thence 10.8 miles southeast along Highway 86 to Ballroad to function, thence 10.8 miles southeast along Highway 86 to Ballroad to function. Pime County State Artzona County Pima P. 22 (USGS)

"I" junction, thence 9.15 miles south along the Sonoyta-4jd Highway to an intersection, thence 5.5 miles west along a track road, 20 fect south of the centerline of the road, 1.8 feet north of the witness post, in a concrete post projecting 0.4 foot, and about I root higher thanthe road.

Note: The 3 in 1930 is stamped backwards 1.e. 1950

WASHINGTON D.C.

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# VERTICAL CONTROL DATA

Coast and Geodetic Survey
SEA-LEVEL DATUM OF 1929

PAGE NO.

17

QUAD ARIZ. DIAGRAM NI 12-10 AJO LATITUDE 32°00' to 32°30' LONGITUDE 112°30' to 113°00' 321123

Line 103

#### DESCRIPTION OF BENCH MARK

Established by U.S. Coast and Geodetic Survey

Detailed description 0.15 mile southeast along the Tucson, Cornelia, and Gila Bend

Railroad from the station at Ajo to junction, thencelo.8 miles southeast

along Highway 86 to "Y" junction, thence 9.15 miles south along SomoytaAjo Highway to intersection, thence 4.55 miles west along track road, 50

feet southwest of the center of a wash, 36g feet north of the centerline
of the road, 18 feet northwest of a tree, 1.9 feet south of the witness Character of mark Bronze Disk Distance and direction from nearest town 24.65 miles south post, in a concrete post projecting 0.3 foot, and about level with the road. Ajo County Pima Stamping County Pima W 308 1952

#### DESCRIPTION OF BENCH MARK

Detailed description 0.15 mile southeast along the Thuson, Cornealia, and Gila Bend Bailroad from the station at Ajo to junction, thence 10.8 miles southeast along Highway 86 to "?" junction, thence 9.15 miles south along Sonoyte-Ajo Highway to intersection, thence 4.6 miles along track road, 525 feet west of B. M., W 308, 15½ feet south of the centerline of the road, a copper mail and washer set on top of a 4 x 4 wood post projecting 0.6 foot, and about level with the road. Distance and direction from nearest town 24.7 miles south Character of mark copper nail and washer Established to Te ? U.S.G.S. 1595.1 (USGS) Stamping County Pima

#### DESCRIPTION OF BENCH MARK

Railroad f along High Ajo Highwe southeast of the cer	Established by Detailed description	Nearest town  Distance and direction from neares  Character of mark <b>Bronze Disk</b>	Designation
y to intersect of the onter of the center of the center of the projecting 0.	U. S. Coast ar	Ajo ection from nearest t Eronze Disk	X 308
Bailroed from the station at Ajo to junction, thence 10.5 miles south along the Schoyta- along Highway 86 to "T" junction, thence 9.15 miles south along the Schoyta- Ajo Highway to intersection, thence 5.3 miles west along track road, 77 feet southeast of the enter of road at point where wash crosses, 39 feet south of the centerline of the road, 2.2 feet east of the witness post, in a con- crete post projecting 0.3 foot, and about & foot higher than the road.	Established by U. S. Coast and Geodetic Survey Detailed description 0.15 mile southeast along the Tucon, Cornelia, and Gila Bend	Nearest town A30 County Flams Distance and direction from nearest town 25.4 miles south Character of mark Bronze Disk	State A
ortion, thence to 9.15 miles a miles west all twhere wash of the word affort high	he Tucon, Corn	south	Arizona
outh along ong track roases, 39 diness post	elia, and G	Stamping X 308 1952	County I
the Sonoyta- bad, 77 feet feet south in a con- road.	la Bend	308 1952	Pima

#### DESCRIPTION OF BENCH MARK

		Detai	Estab	Dista	Desig
feet r	along Ajo Hi	led des	lished	nce and	Designation Nearest town
Test northness of the center of road at point washe wash orosses, ** *. north of the centerline of the road. 1.9 feet south of the fithuses post in a congrete post projecting 0.2 foot, and about level with the road.	Highway ighway	Detailed description 0.15 mile southeast along the incson, vorticities, and when Railroad from the station at Ajo to junction, thence 10.8 miles southeast	Established by U. S.Coast and Geodetic Survey	dire	<b>.</b>
te po	may 86	om th	U. S.	Brons	Y 308
of the	nters	e sta	Coast	m near	
ne of	Y" jus	sout!	and (	est tow	
the of	nction	t Ajo	eodet	/n 26	0.00
road,	n, the	along	ic Su	.25 mi	State Arizo
1.9 f	15 m	uncti	rvey	les so	State Arizona County Pims
eet si	lles w	on, th		outh	na
nt ler	lles a	lance			
rash che	Such	10.8		Stam	County
th th	track	miles	3	Buide	
esa pe	road,	Bouth	21.	Y 308	Pima
feet northwest of the center of road at point where wash crosses, ** revenorth of the centerline of the road, 1.9 feet south of the witness post, in a constrate post projecting 0.2 foot, and about level with the road.	along Highway 86 to "T" junction, thence 9.15 miles south along the Somoyte Ajo Highway to intersection, thence 6.15 miles west along track road, 1052	Dens't	1	Stamping Y 308 1952	

### DESCRIPTION OF BENCH MARK

						4	
road from the	Detailed description	Established by	Character of mark	Distance and directic	Nearest town	Designation R	
station at Ajo to	0.15 miles south	Unied States Ger	Copper Nail& Was	on from nearest town	Ajo	R 21 RM (USGS)	
a junction, thence 10.	Detailed description 0.15 miles southeast along the Tucson, Cornella, and Gila Bend Raj	ological Survey	sher	26.85 miles south	County Pima	State Arizona	
8 miles so	Cornelia,		Stamping			County	
utheast alon	and Gila Be					Pima	
Hall St	and Rai						

86 to a "Y" junction, thence 9.15 miles south along the Sonoyta-Ajo Highway to an intersection, thence 6.75 miles west along track road, at a intersection of track roads leading north-south and east-west, 79 feet east of EM H 21, 632 feet east of the center line of the north-south road, 31 feet north of the center line of the east-west road, a copper nail and washer in the top of a 4 by 4 wooden post projecting 0.6 foot. ghway

#### DESCRIPTION OF BENCH MARK

west of the cen	intersection, to of track roads	Detailed description	Distance and direction from nearest town Character of mark Eronze Disk Established by United States	Designation Nearest town
feet southwest of ter line of the rost projecting O.	hence 6.75 miles north-south and e	0.15 mile southe tation at Ajo to	n from nearest town 26.85 miles sout Bronze Disk United States Geological Survey	R 21 (USGS) Ajo
east-west, 225 feet southwest of the center of north road and a small wash, 15 feet wast of the center line of the road leading north, 1.4 feet east of the witness post in a concrete post projecting 0.3 foot, and shout even with the road in elevation.	ray or to heart selection, there exists a south along someyte-Ajo highway to an intersection, thence 6.75 miles along a track road leading west, at the intersect of track roads north-south and east-west, 53 feet north of the center line of a result of track roads north-south and east-west, 53 feet north of the center line of a result of track roads north-south and east-west, 53 feet north of the center line of a result of track roads north-south and east-west, 53 feet north of the center line of a result of track roads north-south and east-west, 55 feet north of the center line of a result of track roads north-south and east-west, 55 feet north of the center line of a result of track roads north-south and east-west, 55 feet north of the center line of a result of track roads north-south and east-west, 55 feet north of the center line of a result of track roads north-south and east-west, 55 feet north of the center line of a result of the center line of the center line of a result of the center line of a resu	tailed description 0.15 mile southeast along the Tucson, Cornelia, and Gila Bend Rail- rocd from the station at Ajo to a junction, thence 10.8 miles southeast along High-	26.85 miles south sological Survey	State Arizona County Pima
rth road and a sm, , l.4 feet east of even with the roa	d leading west, at north of the cent	son, Cornelia, and	Stamping	County
east-west, 22g feet southwest of the center of north road and a small wash, 15 feet wast of the center line of the road leading north, 1.4 feet east of the witness post, in a congrete post projecting 0.3 foot, and about even with the road in elevation.	way on the ment of 6.75 miles along a track road leading west, at the intersection of track roads north-south and east-west, 55 feet north of the center line of a road	d Gila Bend Rail- heast along High-	R 21 1930	Pims

#### DESCRIPTION OF BENCH MARK

Distance and direction from nearest town 27.9 miles south

County Pima Arizona

County

Pima

Nearest town Designation

south of the centerline of road, 1.9 feet north of the witness post, in a concrete post projecting 0.2 foot and about level with the road.	mile wast of intersection, theche-v.b miles west slong to	along Highway 86 to "Y" junction, thence 9.15 miles south a	Railroad from the station at Ajo to junction, thence 10.8 miles southeast	Detailed description 0.15 mile southeast along the Tucson, Cornelia, and Gila Bend	Established by U. S. Coast and Geodetic Survey		
e road	ack ro	along	miles	a, and		nping	
post, in a	nds, 37 feet	the Sonoyta-	southeast	Gila Bend		Stamping H 309 1952	

## DESCRIPTION OF BENCH MARK

	Established by	Character of mark	Distance and direction	Nearest town	Designation H 110 State Arizona County Pine	
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	United States Co	Bronze Disk	from nearest town	Ajo	H 110	
-	ast &		28.9	Count	State	
The Property	Geodetic Survey		miles south	ty Pina	Arizona	
2000	,	Stamping			County	
22 24		H 11			Pima	
Dona Dona		0 1935				

Detailed description 0.15 mile southeast along the Tucson, Cornelia, and Gila Bend Rail-road from the station at Ajo to a junction, thence 10.6 miles southeast along Highway 86 to a "T" junction, thence 9.15 miles south along the Sonoyta-Ajo Highway to an intersection, thence 8.8 miles west along a track road, 22½ feet south of the center line of the road, 1.9 feet north of the witness post, in a concrete post projecting 0.2 foot, and about level with the road.

JANDARY 1963

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY WASHINGTON D.C.

PUBLISHED AND PRINTED BY:

VERTICAL CONTROL DATA

Coast and Geodetic Survey SEA-LEVEL DATUM OF 1929

by the

## DESCRIPTION OF BENCH MARK

Pima

Stamping J 309 1952 County Distance and direction from nearest town 29.9 miles south Character of mark Bronze Disk Arizona State Nearest town Designation

Detailed description 0.15 mile southeast along the Tucson, Cornella, and Gila Bend Detailed description 0.15 miles southeast along the Tucson, thence 10.8 miles southeast along Highway 86 to "T" junction, thence 9.15 miles south along the Schoyta Ajo Highway to intersection, thence 9.8 miles along a track road west, at the wash where tranck traval ands, about 0.5 mile southeast of the canyon mouth, 112% feet east of the center of wash at point where road crosses, 46 feet southwest of the center of a small wash, 20 feet northeast of the centerline of the road, 2.1 feet south of the witness post, in a concrete post projecting 0.3 foot, and about § foot higher than the road.

#### DESCRIPTION OF BENCH MARK

Stamping J 110 1935 Pima County United States Coast & Geodetic Survey County Fina 19.3 miles south Arizona Pima Distance and direction from nearest town Character of mark Bronze Disk Character of mark Established by Nearest town Designation

Detailed description 0,15 mile southerst slong the Tucson, Cornells, and Cile Bend Railroad from the station at Ajo to a junction, thence 1.9 miles east along Highway 86 to a junction, thence 16.55 miles south among Darby Well Road to a junction of the Old Bates Well Road and a track road east, travel 0.95 mile east along a track road leading thru canyon, on the east side of a conyon mouth bearing to the northeast, 0.95 mile southeast of BM K 110, and the "I" junction of the Darby Well Road and Bates Well Road, 21g feet northeast of the center line of the dim track road, 2.4 feet south of a witness post, in a concrete post projecting 0.2 foot, and about 1½ feet higher than the road.

LINE 104

#### DESCRIPTION OF BENCH MARK

County Arizona County Fima 27.7 miles south Pima State Distance and direction from nearest town Character of mark Bronze Disk Nearest town Designation

thence 6.75 miles west along a track rocal to an intersection, thence 0.85 miles south along a dim track rocal leading to Quitovoquito, 0.85 mile south of EM R 21 (USCS) at a rocal intersection, 28 feet east of the center line of the road, 1.7 feet south of the witness. post, and about 1 foot higher than the road, and set in a concrete post projecting 0.4 foot. Character of mark Bronze Disk Scoast & Geodetic Survey 5110 1935
Established by 'United States Coast & Geodetic Survey, Cornella and Gila Bend RailDetailed description 0.15 miles southeast along the Tucson, Cornella and Gila Bend Railroad from the station at Alo, theore 10.8 miles southeast along Highway 56 to a "I"
junction, thence 9.15 miles south along Ajo-Sonoyta Highway to an interesciton.

LONGITUDE 32°00' to 32°30' LONGITUDE 112°30' to 113°00' DIAGRAM NI 12-10 AJO QUAD 321123

#### DESCRIPTION OF BENCH MARK

Distance and direction from nearest town 28.7 miles south Stamping D 309 1952

Character of mark Sheek Brass Disk

Character of mark Sheek Brass Disk

Character of mark Sheek Brass Disk

Lunited States Goast & Geodetic Survey

Detailed description 0.15 mile southeast along the Tucson, Cornelia and Gila Bend Railroed

From the station at Ajo, thence 10.8 miles southeast along Highway 86 to a "Yr junction, thence 9.15 miles south along Ajo-Shonoyta Highway to an intersection, thence 6.75 miles west along a track road to an intersection, thence 1.85 miles south along a dim track road, 0.4 mile north of a point where the road crose road roads along a dim track road, 0.4 mile north of a point where the road crose so large wash, 29 feet east of the center line of the road, 2.2 feet west of the witness poet, and about level with the road, and set in a concrete post projecting 0.4 foot. Pima County County Fima 28.7 miles south Plma State

#### DESCRIPTION OF BENCH MARK

Character of mark Bronze Disk Stands Coast & Geodetic Survey

Established by United States Coast & Geodetic Survey

Detailed description 0.15 mile southeast along the Tucson, Cornells and Gila Bend Reilroad from the station at Ajo, thence 10.8 miles southeast along Highway 66 to a "Y" junction, thence 9.15 miles south along Ajo-Sonoyta Highway to an intersection, thence 5.75 miles west along a track road to an intersection, thence 2.8 miles south along a dim track road, 0.55 miles south of a point where the road orosses a large wash, 31 feet west of the center line of the road, 14 feet east of the center of a small wash, 1.7 feet south of the witheres post, and about level with the road, and set in a concrete post projecting 0.7 foot. Pime County County Pima 29,65 miles south Arizona Distance and direction from nearest town Nearest town Designation

#### DESCRIPTION OF BENCH MARK

Established by

Detailed description 0.95 mile north along the Sonoyte-4jo Highway from the post office and store at likeville, thence 14.05 miles west along a roed leading to Quitoviquito to a store at likeville, thence 14.05 miles west along a roed leading north to Bates Well and Ajo to a "Y" junction, thence 0.45 mile northeast along a roed leading north to Bates Well and Ajo to a "Y" junction, thence 7.7 miles northeast along a roed leading to Dripping Springs, thence 2.8 miles northeast along a roed leading to Oromicr Canyon to a junction, thence 2.8 miles northeast and northeast along a roed, 1.05 miles south of BM Filly 48½ feet west of the center line of the roed, 1.6 feet south of the witness post, and about 1½ feet higher than the road, and set in a concrete post projecting 0.3 foot. C 309 1952 Pime Stamping County County Pima 32.65 miles northwest Arizona State Distance and direction from nearest town Character of mark Sheet Brass Disk Lukeville . 309 Nearest town

### DESCRIPTION OF BENCH MARK

Pime County Distance and direction from nearest town 31.55 miles northwest Arizona Pima County State E 110 Lukeville Nearest town Designation

Character of mark Erozze Disk
Established by United States Coast & Geodetic Survey
Established by United States Coast & Geodetic Survey
Established by United States Coast & Geodetic Survey
United States Coast & Geodetic Survey
Established by United States Coast & Geodetic Survey
Detailed description 0.95 mile north along the Sonoyta-Ajo Highway from the post office and
store at Lukeville, thence 0.45 miles north clong a road leading north to Bates Well and Ajo

"Two junction, thence 0.77 miles northeast along a road leading to Crowler Cenyon to a juncthence 6.7 miles northeast along a road leading northeast and north, 5144 feet
tion, thence 1.7 miles northeasts along a road leading south from the
south of an iron pole (signal pole), 30½ feet west across a road leading south from the
center of a small wash, 36 feet southeast of the center line of the main road froute of
the line), 15 feet west of the center line of the main road froute of
the line), 15 feet west of the center line of the road leading south, 1.7 feet north of
the line), 5 feet miles post, and about level with the road, and set in a concrete post projecting

0.5 fcot.

PUBLISHED AND PRINTED BY: U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY WASHINGTON D.C.

Line 104

# DESCRIPTION OF BENCH MARK

Established by	Distance and direction Character of mark	Designation Nearest town
Established by United States Coast & Geodetic Survey Debylied description 0.95 mile north along the Sonoyta-Ajo Highway from the post office and	Distance and direction from nearest town Character of mark Sheet Bress Disk	B 309 Lukeville
long the	30.85 I	State County
odetic Survey e Sonoyta-Ajo	niles northwe	State Arizona County Pima
Highway from	st Stamping	County
the		
post	B 309	Pima
office	B 309 1952	
and		

store at Inteville, thence 14.05 miles west along a road leading to Quitoviquito to a "Y" junction, thence 0.45 miles north along a road leading north to Bates Well and Ajo to a "Y" junction, thence 7.7 miles northeast along a road leading to Dripping Springs, thence 6.7 miles north and northeast along a road leading to Growler Canyon to a junction, thence I mile northeast along a road, I mile northeast of EMD 110, and about 0.6 miles southwest of the southern most wash of two, 28½ feet northwest of the center line of the road, 1.7 feet south of the witness post, and about ½ foot higher than the road, and in a concrete post projecting 0.2 foot.

Established by

United States Coast & Geodetic Survey
0.95 miles north along the Sonoyta-Ajo Highway from the post office and

Stamping

Z 308 1952

Distance and direction from nearest town
Character of mark Sheet Brass Disk

Nearest town

Lukeville

26.8 miles northwest

Pima

Arizona

County

Pima

DESCRIPTION OF BENCH MARK

### DESCRIPTION OF BENCH MARK

Established by  United States Coast & Geodetic Survey  Established by  Detailed description 0.95 mile north along the Sonoyst-Ajo Highway from the post office and store at Lukeville, thence 14.05 miles west along a road leading to Quitoviquito to a store at Lukeville, thence 14.05 miles west along a road leading north to Eates Well and A to a "Y" junction, thence 7.7 miles north along a road leading north to Eates Well and A to a "Y" junction, thence 7.7 miles northeast along a road leading to Growler Canyon, at the standard to Dripping Springs, Growler Canyon, and Quitovoquito Road, lintersection of roads to, Dripping Springs, Growler Canyon, and Quitovoquito Road, lintersection of roads to this mark, 46½ feet west across the road leading to Growler Canyon from the center line of the old road leading to Dripping Springs, 29½ feet west of the center line of the road leading to Growler Canyon, 1.9 feet north of the witness post and about level with the road, and set in a concrete post projecting 0.3 foot.	Distance and direction from nearest town Character of mark Bronze Disk	Designation Nearest town
United States Coast & Geodetic Survey blished by United escription 0.95 mile north along the Sonoyta-Ajo Highway from the post office and store at Inkeville, thence 14.05 miles west along a road leading to Quitoviquito to a "Y" junction, thence 0.45 miles north along a road leading north to Bates Well and Ajo to a "" junction, thence 7.7 miles northeast along a road leading to Dripping Springs, thence 6.7 miles north and northeast along a road leading to Growler Canyon, at an in- tersection of roads to, Dripping Springs, Growler Canyon, and Quitovoquito Ecad, line turns northeast at this mark, 46g feet west across the road leading to Growler Canyon from the center line of the road leading to Growler Canyon, 1.9 feet north of the witness post, and about level with the road, and set in a concrete post projecting 0.3 foot.	from nearest town Bronze Disk	Lukeville
ast & Geovalong the object of miles a north a north a north theast allong Spring Spring 46g feet of Grow and set	29.85 mi	State
Sonoyta-Ajo E Sonoyta-Ajo E Sonoyta-Ajo E Rest along a long a road la- long a road la- ong a road la- ong a road la- ter across the adding to Dripj laer Canyon, l.l.	29.85 miles northwest	Pima
ighway from to coad leading to adding north to a road leading to Growll you, and Quith you, and leading ing Springs, 19 feet north post projecti	Stamping	County
he post office o Quitoyiquito o Bates Well an to Dripping Sp er Canyon, at a ovoquito Road, g to Growler Ca 29g feet west of the witness ng 0.3 foot.	D 110 1935	E LIBE
and to a d Ajo rings, n in- line nyon f the post,		

### DESCRIPTION OF BENCH MARK

Established by Detailed description store at Luk "Y" junction	Nearest town Distance and directi Character of mark	Designation
Established by United States Coast & Geodetic Survey  Detailed description 0.95 mile north along the Sonoyta-Ajo Highway from the post office and store at Lukeville, thence 14.05 miles west along a road leading to Quitoviquito to store at Lukeville, thence 0.45 miles north along a road leading north to Bates Well and A mym junction, thence 0.45 miles northeast along a road leading to Dripping Spring a north and the country of the country	Nearest town Lukeville Distance and direction from nearest town Character of mark Sheet Brass Disk	A 309
along the long the D5 miles w s north al	County 29 miles	State
etic Survey Sonoyta-Ajo Sonoyta-Ajo est along a ong a road heast along	County Pima 29 miles northwest	Arizona
Highway from road leading north a road leading	Stamping	County
to to		
post Quito Bates Dri	309	Pima
offic well pping	A 309 1952	
Sprin		

ridge between two washes running north and south, 104% feet east across the road from the east bank of a wash, 80 feet west of the west bank of a wash, 35% feet southeast of the center line of the road, 2.3 feet morth of the witness post, and about 1 foot higher than the road, and set in a concrete post projecting 0.4 foot. to a "Y" junction, thence 7.7 miles northeast along a road leading to Dripping Springs, thence 5.85 miles north and northeast along a road leading to Growler Canyon, on a low ridge between two washes running north and south. 1044 fact and a second read to Growler Canyon, on a low

### DESCRIPTION OF BENCH MARK

Designation G-LLO  State Plane  Nearest town Indewille  Ounty Plane  Distance and direction from nearest town 27.9 miles northwest  Character of mark  Exabsished by United States Coast & Geodetic Survey  Established by United States Coast & Geodetic Survey  Detailed description 0.95 miles north along the Sonoyta-Ajo Highway from the post office and store at Inkeville, thence 14.05 miles north along a road leading to Quitoviquito to a store at Inkeville, thence 14.05 miles north along a road leading to Pripping Springs, to a "Y" junction, thence 0.45 miles northeast along a road leading to Dripping Springs, thence 4.75 miles north and northeast along a road leading to Growler Canyon, and about 125 yards onthrest of a low rocky ridge, 61 feet north of the center of a small wash, 263 feet south of the center of a small wash, 263 feet south of the conter of a small wash, 263 feet south of the center of a small wash, 263 feet south of the center of a small wash, 263 feet north of the witness post, and about level with the road, and set in a concrete post projecting 0.4 foot.	
State County 27.9 mi ast & Ge along t along t along to alors to corth miles no rtheast cocky rid line of t	)
State Pina County Pina 27.9 miles northwest ast & Geodetic Survey along the Sonoyts-Aj 05 miles west along a s north along a road; rtheast along a road; the of the road, 1.8; set in a concrete po	> 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Stamping Stamping Highway from road leading north a road leading to Gro reading to Gro reth of the ce tert north of the grojecting	
C 110 1935  C 110 1935  the post office and to Quitoriquito to a to Betes Well and Ajo ig to Dripping Springs, waler Canyon, and about unter of a small wash, the witness post, and 0.4 foot.	Pina

Designation  Lukewille  County  Pinne  County  Nearest town  Distance and direction from nearest town  Established by  Defailed description  O.95 miles north atong the Sonoyta-Ajo Highway from the post office and store at Lukewille, thence 14.05 miles west along a road leading to Quitoviquito to a "Y" junction, thence 0.45 mile north along a road leading north to Bates Well and Ajo to a "Y" junction, thence 0.45 mile northeast along a road leading to Drying Springs theore 2.55 miles north and northeast along a road leading to Growler Canyon, at a point where the road crosses a wash, and about 15 yards north of the north edge of a wash, 70 feet northeast of the center of the road awash, 28½ feet southeest of the center line of the road, 1.8 feet south of the witness post, and about level with the road, and in a concrete post projecting 0.4 foot above the ground.	Detailed description 0.95 miles north along the Sonoyta-Ajo Highway from the post office and store at Lukeville, thence 14.05 miles west along a road leading to Quitoviquito to a "Y" junction, thence 0.45 miles north along a road leading north to Bates Well and Ajo to a "Y" junction, thence 7.7 miles northeast along a road leading to Dripping Springs thance 3.65 miles north and northeast along a road leading to Growler Canyon, at a point where the road crosses a small wash, 58 feet west of the center of the road and wash, 21½ feet north of the center line of the road, 2.2 feet south of the witness post, and about level with the road, and set in a concrete post projecting 0.5 foot.  DESCRIPTION OF BENCH MARK

## DESCRIPTION OF BENCH MARK

County Fima 24.7 miles northwest

Pima

Arizona

County

Pima

Nearest town

A 208 Lukeville

Distance and direction from nearest town  24*/ miles northwest  Character of mark Sheet Brass Disk  Established by United States Coast & Geodetic Survey  Detailed description 0.95 miles north along the Sonoyta-Ajo Highway from the post office and store at Lukerille, thence 14.05 miles west along a road leading to Quitoriquito to a store in the coast of the north along a road leading north to Bates Well and Ajo to a "Y" junction, thence 0.45 mile north along a road leading to Dripping Springs, thence 1.55 miles north and northeast along a road leading to Orowler Canyon, 41½ feet north of the center line of the road, 2 feet south of the witness post, and about level with the road, and set in a concrete post projecting 0.3 foot.	Łw.	סמ	<b>t1</b>	t c	£44	o ct	Detaile	Establ	Charac	Distan
rection from nearest town 24.7 miles northwest V 308 195 rk Sheet Brass Disk United States Coast & Geodetic Survey United States Coast & Geodetic Survey tion 0.95 miles north along the Sonoyta-Ajo Highway from the post of Lukerille, thence 14.05 miles west along a road leading to Quitoviquion, thence 0.45 mile north along a road leading north to Bates Well junction, thence 7.7 miles northeast along a road leading to Growler Canyon, 55 miles north and northeast along a road leading to Growler Canyon, the center line of the road, 2 feet south of the witness post, and a road, and set in a concrete post projecting 0.5 foot.	th the	orth of	tence I.	B TTH	7" junct	ore at	ed descrip	ished by	ter of ma	ce and dir
on nearest town 24.7 miles northwest at Brass Disk the Brass Disk the Scast & Geodetic Survey red States Coast & Geodetic Survey miles north along the Sonoyta-Ajo Highway from the post of miles north along a road leading to Quitoviqu nice 0.45 mile north along a road leading north to Bates Well thence 7.7 miles northeast along a road leading to Growler Canyon, north and northeast along a road leading to Growler Canyon, ar line of the road, 2 feet south of the witness post, and a set in a concrete post projecting 0.5 foot.	road, and	the cente	55 miles	junction	ion, then	Lukeville	tion 0,98	Unit	rk Shee	ection from
Disk 24./ miles northwest Van 195 Disk 25./ miles northwest Stamping Van 195 Is Coast & Geodetic Survey In 14.05 miles west along a road leading to Quitoviqu Ile north along a road leading north to Bates Well 7.7 miles northeest along a road leading to Ortipin Id northeast along a road leading to Growler Canyon, If the road, 2 feet south of the witness post, and a a concrete post projecting 0.5 foot.	set in	r line c	north an	thence	1ce 0.45	, thence	miles n	ed State	t Brass	nearest to
Willes northwest Vishing Vishing Vishing to Geodetic Survey ag the Sonoyta-Ajo Highway from the post of liles west along a road leading to Quitovique the along a road leading north to Bates Wells northeest along a road leading to Drippin ast along a road leading to Growler Canyon, and, 2 feet south of the witness post, and a te post projecting 0.5 foot.	a concre	f the roa	d norther	7.7 miles	mile nor	14.05 m	orth alou	s Coast &	Disk	own 24.
northwest V 308 195 c Survey noyta-Ajo Highway from the post of along a road leading to Quitoviqu a road leading north to Bates Well st along a road leading to Drippin a road leading to Growler Canyon, t south of the witness post, and a projecting 0.5 foot.	te post p	ad, 2 fee	ast along	s northea	th along	lles west	ag the oc	c Geodeti		7 miles
Stamping V 308 195 o Highway from the post of road leading to Quitovique eading morth to Bates Well a read leading to Growler Canyon, of the witness post, and a g 0.3 foot.	rojectin	t south	a road	st along	a road 1	along a	noyta-Aj	c Survey	)	northwes
from the post of fing to Quitovique thing to Bates Well sading to Drippin Growler Canyon, ness post, and a	g 0.3 foot	of the wit	leading to	a road le	eading nor	road lead	o Highway			64
308 195 post of mitoviqu tes Well Drippin Canyon, t, and a	•	ness pos	Growler	ading to	th to Ba	ling to &	from the		V	1
		t, and al	Canyon,	Dripping	tes Well	nitowidn	DOST OIL		SCAT BOS	
fice and ito to a and Ajo aprings 412 feet		bout level	41g feet	S Springs	and Ajo	B 01 01	TCO SIG		to.	,

## DESCRIPTION OF BENCH MARK

	יו ס	1002	20
 to a "Y" junc thence 0.55 m cross the ros line of the m	etailed description store at Luke	Distance and direction	Designation
to a "Y" junction, thence "," miles normess about a rock reaching to thence 0,55 mile north along a rock leading to Growler Canyon, 83% feet northwest a thence 0,55 mile north west bank of a large wash, 60% feet northwest of the center cross the road, from the west bank of the witness post, and about & foot higher than line of the road, 1,3 feet south of the witness post, and about & foot higher than the road, and set in a concrete post projecting 0.8 foot.	0.95 miles north ville, thence 14. thence 0.45 mile	Distance and direction from nearest town 23.7 miles northwest Distance and direction from nearest town 23.7 miles northwest Distance and direction from nearest town 23.7 miles northwest Character of mark Bronze Make States Const & Geodetic Survey	A 110
miles nor road lea cank of a th of the	along th 05 miles s north a	23.7 mi	State
ding to Growle large wash, 60 witness post, ojecting 0.2 f	west along a religion a road lea	23.7 miles northwest	Arizona Pima
r Canyon, 832 feet northw and about 2	lighway from to bed leading to adding north to	Stamping	County
to a "Y" junction, thence 7,7 miles nothers about a four required thence 0,55 mile north along a road leading to Growler Canyon, 835 feet northwest actions the road from the west bank of a large wash, 605 feet northwest of the center areas the road, 1,3 feet south of the witness post, and about \$ foot higher than the road, and set in a concrete post projecting 0.2 foot.	Detailed description 0.55 miles north along the Sonoyta-Ajo Highway from the post office and betailed description 0.55 miles north along a road leading to Quitoriquito to a store at Lukeville, thence 14.05 miles mest along a road leading north to Bates Well and Ajo "Y" junction, thence 0.45 miles north along a road leading north to Bates Well and Ajo	A 110 1935	Pima

JANUARY 1963

U.S. DEPARTMENT OF CONMERCE COAST AND GEODETIC SURVEY WASHINGTON D.C.

PUBLISHED AND PRINTED BY:

### VERTICAL CONTROL DATA by the

Coast and Geodetic Survey SEA.LEVEL DATUM OF

# DESCRIPTION OF BENCH MARK

U 308 1952 Pima Stamping County County Pima 23,15 miles northwest Arizona Distance and direction from nearest town Character of mark Sheet Brass Disk Lukeville Nearest town Designation

Catalogue of mean and a constant and the state of state of

### DESCRIPTION OF BENCH MARK

store at Lukeville, thence 14.05 miles west along a read leading to Quitoviquito to a "Y" junction, thence 0.45 mile north along a read leading north to Bates Well and Ajo to a "Y" junction, thence 7.2 miles northeast along a read leading to Dripping Springs, 156 feet southeast of the center of a read and wash crossing the read, 36½ feet north-east of the center line of the read, 1.9 feet west of the witness post, and about 2 feet higher than the read, and set in a concrete post projecting 0.4 foot. Detailed description 0.95 miles north along the Sonoyta-Ajo Highway from the post office and Stamping T 308 1952 Pima County County Pima 22.65 miles northwest United States Coast & Geodetic Survey Arizona State Distance and direction from nearest town Character of mark Sheet Brass Disk Lukeville Character of mark Established by Nearest town

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

FORM 685A (1-8-58)

# RECOVERY NOTE, BENCH MARK

Chief of Party Recovery Date March 1962 Stamping County Pima Nearest town Ajo County Distance and direction from nearest town 12.8 miles southeast State Arizona Standard cap Designation 1837.7 (USGLO) Character of mark

NOT RECOVERED USGIO Present condition Established by

Detailed report

be reached from Tucson, Cornella & Gila Bend Railroad station by going 5.2 mile southeast along the track, thence 12.6 miles southeast along the track, thence 12.6 miles southeast along the track, thence 12.6 miles southeast along State Highway 86, at the western boundary of the Papago Indian Reservation 82 feet north of the centerline of the highway, and in the fence line. A United States General Iand Office standard cap, stamped "S 1 S 6 S 31 S 6 T 13S T 14S A4 W RM" and riveted on the top of a 3-inch iron pipe projecting 8 inches above ground.

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETH SURVEY FORM 655 A.

RECOVERY NOTE, BENCH MARK

OC

20

LATITUDE 32°00' to 32°30' LONGITUDE 112°30' to 113°00' DIAGRAM NI 12-10 AJO

QUAD 321123

ARIZ

County County Pima 13.7 miles southeast Pime State Distance and direction from nearest town V 36

Nearest town Designation

Feb. 1952

Pina

V 36 1882,509 1933 Stamping United States Coast & Geodetic Survey Bronze Disk Character of mark Present condition Detailed report Established by

the station at Ajo to Highway 86, thence 13.55 miles southeast along State Highway 86, 0.9 mile southeast of the west boundary of the Papego Indhan Reservetton ferre, 1952 feet northwest of the enter of the highway and a dip, 40 feet southwest of the enter inne of Highway 86, 1.8 feet north of the witness post, and about 1 foot higher than the highway, and a dip, 40 feet southwest of the center than the highway 86, 1.8 feet north of the witness post, and about 1 foot higher than the highway, and set in a concrete post projecting 0.9 foot above the ground.

### DESCRIPTION OF BENCH MARK

County County Pima 14.7 miles southeast Arizona Ajo Nearest town Designation

Distance and direction from nearest town 14.7 miles southeest

Character of mark Sheet Brass Disk

Established brase States Coast & Geodetic Survey

Established description 0.15 miles southeest along the Tucson, Cornella & Gila Benc Railroad

Irom the station at Ajo, to Highway 86, thence 14.55 miles southeest along Highway

86, 1 mile northwest of the "T ignotion of the Gunsight Road leading southeest &

south, 1052 feet southeest of a small wesh, 60 feet northeest of the

center line of the Highway 86, 2 feet south of the withess post, and about 12 feet

higher than the highway, and set in a concrete post projecting 0.4 foot.

RECOVERY NOTE, BENCH MARK DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY FORM 685 A

W 36 1971,620 Feb. 1952 1933 Pima Stamping County Designation W 36 State Artzona
Nearest town Ajo County Pima
Distance and direction from nearest town 15.7 miles southeast Bronze Disk United States Coast & Geodetic Survey Good Character of mark Established by

alled report of the station at Ajo, to Highway 86, thence 15.55 miles southeast along Highway 86, at the "T" junction of Highway 86, and unsight keed leading southeast & south, 362 feet south of the center line of Highway 86, ll2 feet south of the center line of Highway 86, ll2 feet south of the center line of Gunsight Koed, 2.2 feet north of the witness post, and about 12 feet higher than the road, and set in a concrete post projecting 1 foot. Present condition Detailed report

### DESCRIPTION OF BENCH MARK

Established by United States Goest & Geodetic Survey
Detailed description This mark was not found, the road described that this mark was on can not
be found, a new road has been constructed. Stamping **L 110 1935** Pime County Arizona Pina Distance and direction from nearest town 1 mile south Friend Feather for mark bronze Disk State Designation

### ORIGINAL DESCRIPTION

About 1.0 ml S of the Ajo-Tucson Highway, along the road to Kerwo, About 5.4 ml E & N of Walls Well, 0.5 ml S of a wash, at the S end of a curve and a levee, 58 ft NW of the centerline of the road, and 40 ft S of the ditch. A concrete post.

04

PUBLISHED AND PRINTED BY: U.S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

WASHINGTON D.C.

21

321123

LATITUDE 32°00' to 113°00'

DIAGRAM NI 12-10

AJO

Line 105 Line 106

DESCRIPTION OF BENCH MARK

16.5 miles southeast Pime Arizona County

Pima

Distance and direction from nearest town Character of mark Sheet Brass D1sk Stamping М 309 1952

Character of mark

Ajo

Detailed description 0.15 miles southeesst along the Tucson, Cornelia & Gila Bend Reilroad from the station at Ajo to Highway 86, thence 16.35 miles southeesst along Highway 86 to an intersection of road north and south to Karwoo, at a point where the road crosses a wash and at the intersection of Highway 86 and a road leading north and south to Karwoe, 287 feet south of the center line of Highway 86, 54 feet west of the center line of the road leading south to Karwoo, 2.1 feet east of the ritness post, and about level with the road, and set in a concrete post projecting 0.3 foot.

U.S. DEPARTMENT OF COMMERCE

### RECOVERY NOTE, BENCH MARK

70

Distance and direction from nearest town 17.6 miles southeast Recovery Date Oct. 1934 Standard disk Arizona

X 36

Detailed report Present condition Established by Character of mark Nearest town Designation

GOOD

US C&GS

Stamping Chief of Party County

17.6 miles southeast along State Highway 86 from the Tucson, Cornelia & Gila Bend Railroad station at Ajo. Pima County, on the old Ajo-Tucson highway, 0.4 mile east of a small concrete bridge with an iron railing, and 36 feet south of the centerline of the highway. A standard disk, stamped "2035.754 X 36 1933" and set in the top of a concrete post projecting 1 foot above ground.

U.S. DEPARTMENT OF COMMERCE

### RECOVERY NOTE, BENCH MARK

70

Established by Character of mark Distance and direction from nearest town 19.7 miles southeast Designation Y 36 Nearest town Ajo Standard disk 1933 USC&GS State Arizona

Recovery Date Stamping 2122.781 Y 36 1933 Chief of Party D.W. Moncevicz

Disk returned to this Office by Level Party 616

Detailed report Present condition

Destroyed

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

RECOVERY NOTE, BENCH MARK

Z

Distance and direction from nearest town 21.7 miles southeast Nearest town Ajo Designation State Arizona

Stamping Recovery Date Oct. 1934 Chief of Party

Character of mark Standard disk Present condition Established by GOOD USC&GS

21.7 miles southeast along State Highway 86 from the Tuscon, Cornelia & Gila Bend Railroad station at Ajo, Pima County, on the old Ajo-Tuscon highway, 0.2 mile east of the Junction of a road leading to Indian Oasis, 180 feet west of a dip in the highway with masses of broken concrete nearby, and 58 feet north of the centerline of the highway. A standard disk, stamped "2150.019 Z 36 1933" and set in the top of a concrete post projecting I foot above ground. to

COAST AND GEODETIC SURVEY

RECOVERY NOTE, BENCH MARK

Character of mark Distance and direction from nearest town 23.6 miles southeast Established by Nearest town Designation AJO Standard disk

Present condition GOOD USC&GS

Detailed report

Recovery Date Stamping Chief of Party Oct. 1934

23.6 miles southeast along State Highway 86 from the Tucson Cornelia & Gila Bend Railroad station at Ajo, Pima County, on the old Ajo-Tucson highway, 50 feet west of the west end of a wide ditch paralleling the highway, and 45 feet south of the centerline of the highway. A standard disk, stamped "2175.852 A 37 1933" and set in the top of a concrete post projecting 8 inches above ground.

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

RECOVERY NOTE, BENCH MARK

Character of mark Distance and direction from nearest town 25.4 miles southeast Nearest town Ajo Present condition GOOD Established by Standard disk USC&GS Arizona Pima

Detailed report

Recovery Date Chief of Party

25.4 miles southeast along State Highway 86 from the Tucson, Cornella & Gila Bend Railroad station at Ajo, Pima County, on the old Ajo-Tucson highway, 0.5 mile east of a dark lava hill with a prominent bald knob, 180 feet west of the first dip in the highway east of the hill, 42 feet south of the centerline of the highway, in a shallow borrow pit, in the top of a lime-cemented conglomerate outcrop, and flush with the ground. A standard disk, stamped "2126.128 B 37 1933."

### DESCRIPTION OF BENCH MARK

Designation A 358

State Arizona county Pina cher of marty D. Moncevicz Nearest town A 10

Distance and direction from nearest town 22.65 miles southeast own 24.65 miles southeast own 25.65 miles southeast own 25.65 miles are November 1961 character of mark A CaGS Bench Mark Disk on a copper Established by GaGS

petalled description About 0.15 mile southeast along the Tucson, Cornelia and Gila Bend Railroad from the station at Ajo; thence 10.8 miles southeast along State Highway 85; thence 5.55 miles southeast along State Highway 86; thence b.15 miles southeast along a graded dixt road; 1.0 mile southeast of the junction of the road and a trail road leading south to Walls Well, 50 feet west of the center line of the road, 56 feet morthwest of a telephone pole, 1.3 feet west of a metal witness post, about 1 foot below the level of the road, a disk on a 5/8-inch copper coated rod that is driven to a depth of 92 feet and is encased in a 6-inch tile which

projects 3 inches.

JANUARY 1963

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY WASHINGTON D.C. PUBLISHED AND PRINTED

VERTICAL CONTROL DATA

Coast and Geodetic Survey SEA-LEVEL DATUM OF 1929

LATITUDE 32°00' to 32°30' LONGITUDE 112°30' to 113°00' DIAGRAM NI 12-10 AJO QUAD 321123

### DESCRIPTION OF BENCH MARK

Nearest town Ajo county Pima Distance and direction from nearest town 23,45 miles southeast Leveling date November 1961 stabilished by C&GS Bench Mark Disk county Stamping B 338 1961 State Arizona Designation B 338 Nearest town A jo

Gila Bend Railroad from the station at Ajo; thence 10.8 miles southeast along State Highway 85; thence 5.55 miles southeast along State Highway 85; thence 5.55 miles southeast along State Highway 86; thence 6.95 miles southeast along a graded dirt road, set in the top of a boulder which projects 14 inches, 25 feet east of the center line of the road, and about level with the road.

### DESCRIPTION OF BENCH MARK

newtrest town and direction from nearest from 24.55 miles southeast Leveling date November 1961 garables bench Mark Disk stamping C 338 1961 gstabilished by C&GS. County Pima State Arizona Designation C 338

pseudiages of a concrete post of a concrete post in the top of a concrete post of a concrete post, and a cross the road, 130 feet north of the north bank of a sandy wash, 194 feet west and a cross the road from a telephone pole, 1.3 feet west of a metal witness post, about level with the road, and set in the top of a concrete post projecting 4 inches.

### DESCRIPTION OF BENCH MARK

pesignation D 338 state Arizona county Pima county Pima halo county Pima count Designation D 338 Established by C&GS

Detailed description About 0.15 mile southeast along the Tucson, Cornelia and Gila Bend Railroad from the station at Ajo; thence 10.8 miles southeast along State Highway 85; thence 5.55 miles southeast along State Highway 86; thence 9.05 miles southeast along a graded dirt road; 69 feet northeast of the center line of the road; 13½ feet southeast of a telephone pole, 1.4 feet northeast of a metal witness post, about level with the road, and set in the top of a concrete post projecting 7 inches.

### DESCRIPTION OF BENCH MARK

Nearest town Ajo county Pima county Pima Distance and direction from nearest town 26.6 miles southeast Character of mark A C&GS Bench Mark Disk

chief of partyD. Monceviz Leveling date November 1961 stamping E 338 1961

County Pima

Established by C&GS
Detailed description About 0.15 mile southeast along the Tucson, Cornella and Gila Bend Railroad from the station at Ajo; thence 10.8 miles southeast along State Highway 85; thence 5.55 miles southeast along State Highway 85; thence 10.8 miles southeast along a graded dirt road; 0.1 mile northwest of a wash, 70 feet northeast of the center line of the road; 9.7 feet southeast of a telephone pole, 1.5 feet northeast of a metal withess post, about level with the road, and set in the top of a concrete post projecting 5 inches.

DESCRIPTION OF BENCH MARK

Chief of party D. Moncevicz Designation F 338 State Arizona county Pima County Pima County Fina County Fina County Fina County Fina County Fina County Fina Charce of mark A C&GS Dench Mark Disk Stamping F 338 1961 Stablished by C&GS

parable by the secretary of the southeast along the Tucson, Cornella and Gila bend Railroad from the station at Ajo; thence 10.8 miles southeast along State Highway 85; thence 5.55 miles southeast along as Eaded Ajos to the Highway 66; thence 11.1 miles southeast along a graded dirt road, 73 feet northeast of the center line of the road, 12 feet southeast of a telephone pole, 1.3 feet northeast of a metal witness post, about level with the road, and set in the top of a concrete post.

### DESCRIPTION OF BENCH MARK

Arizona county Fina Dima Chief of party D. Moncewicz Navember 1961

Designation G 338

Nearest town Ajo

Distance and direction from nearest town 28,6 miles southeas\$\overline{\phi}\text{oathea}\text{town Ajo}

Character of mark A C&GS Bench Mark Disk on a Copper/
Character of mark A C&GS Bench Mark Disk on a Copper/
Stamping G 338 1961

Established by C&GS

Detailed description About O.15 mile southeast along the Tucson, Cornelia and Gila Bend Railiroad from the station at Ajo; thence 10.8 miles southeast along State Highway 85; thence 5.55 miles southeast along State Highway 86; thence 5.55 miles southeast along state Highway northwast of the school at Gu Vo, an indian village, 71 feet northeast of the center line of the road, 26 feet southeast of a telephone pole, 1.6 feet east of a metal witness post, about 1 foot below the level of the road, and on the top of a 5/8-inch copper coated rod that is driven to a depth of 12 feet and is encased in a 6-inch tile which projects 2

### DESCRIPTION OF BENCH MARK

Chief of party D. Moncevicz Leveling date November 1961 Stamping H 338 1961

Designation H 338

Nearest town Ajo
Distance and direction from nearest town 29.3 miles southeast
Entering direction from nearest town 29.3 miles southeast
Established by
C&CS
Established by
C&CS
Detailed description About 0.15 mile southeast along the Tucson, Cornelia and
Gila Eend Established from the station at Ajo; thence 10.8 miles southeast
along State Highway 85; thence 5.55 miles southeast along State Highway
86; thence 12.6 miles southeast along a graded dirt road; or 19.6 miles
north along a graded dirt road from the water tank and windmill at
Menagers, an indian village, 1.2 miles wast of the school at Gu Vo, an
indian village, set in the top of the north edge of a rock outcrop
which projects 3 feet above the level of the ground, 0.1 mile south of
the road, and 240 feet south of a telephone pole.

COAST AND GEODETIC SURVEY U.S. DEPARTMENT OF PUBLISHED AND PRINTED BY:

# VERTICAL CONTROL DATA

Coast and Geodetic Survey

PAGE NO.

LATITUDE 32°00' to 113°00'

Line 106 Line 107

DIAGRAM

NI 12-10

AJO

### DESCRIPTION OF BENCH MARK

Distance and direction from nearest town 18.6 miles north Character of mark A C&GS Bench Mark Disk Established by C&GS Designation J 338
Nearest town Menagers State Arizona

Leveling date November 1961 Stamping J 338 1961 Chief of party D. Moncevicz

water tank and windmill at Menagers, an indian village; or about 0.15 water tank and windmill at Menagers, an indian village; or about 0.15 the station at Ajo; thence 10.8 miles southeast along State Highway 85; thence 5.55 miles southeast along State Highway 86; thence 13.8 miles southeast along a graded dirt road; 0.2 mile northeast of the school at southeast along a graded dirt road; 0.2 mile northeast of the graded dirt road, 102 feet southeast of the southeast corner of the triangular junction of the graded dirt road and a road leading west, 1.4 feet east of a metal witness post, about level with the road, and set in the top of a concrete post projecting 6 inches.

### DESCRIPTION OF BENCH MARK

Distance and direction from nearest town 17,8 miles north Character of mark A C&GS Bench Mark Disk Established by Panc Established by C&GS Designation K 338
Nearest town Menagers State Arizona

chief of party D. Moncevicz Leveling date November 1961 Stamping K 338 1961

water tank and windmill at Menagers, an indian village; 0.6 mile south of the school at Gu Vo, an indian village, set in the top of a boulder which projects 2 feet, at the bottom of the east slope of a rocky hill, 132 feet west of the center line of the road, 53 feet south of a telephone pole braced with a guy wire, and about 8 feet above the level of

### DESCRIPTION OF BENCH MARK

Distance and direction from nearest town 16.75 miles north character of mark A C&GS Bench Mark Disk Established by C&GS Designation L 338
Nearest town Menagers

> Chief of party D. Moncevicz Leveling date November 1961 Stamping L 338 1961 County Pima

water tank and windmill at Menagers, an indian village; 1.7 miles south of the school at Gu Vo, 94 feet west of the center line of the road, 14 feet east of a telephone pole, 1.4 feet west of a metal witness post, about level with the road, and set in the top of a concrete post project. ing 6 inches.

### DESCRIPTION OF BENCH MARK

state Arlzona Distance and direction from nearest town 15.8 miles north Character of mark A. C&GS Bench Mark Disk Established by C&GS

chief of party D. Moncevicz Leveling date November 1961 stamping M 338 1961

water tank and windmill at Menagers, an indian village, 2.7 miles south of the school at Gu Vo, 104 feet west of the center line of the road, 55 feet south of a telephone pole, 1.5 feet west of a metal witness post, about level with the road, and set in the top of a concrete post projecting 7 inches.

# permised description About 14.8 miles north along a graded dirt road from the water tank and windmill at Menagers, an indian village; 3.7 miles south of the school at Gu Vo, 102 feet west of the center line of the road, 31 feet south of a telephone pole, 1.9 feet west of a metal withess post, about level with the road, and set in the top of a concrete post project—

DESCRIPTION OF BENCH MARK

ing 6 inches.

County Pima
Distance and direction from nearest town 14,8 miles north Character of mark A C&GS Bench Mark Disk
Established to C&GS

Chief of party D. Moncevicz Leveling date November 1961 stamping N 338 1961

Designation N 338 Nearest town Menagers

DESCRIPTION OF BENCH MARK

Character of mark A C&GS Bench Mark Disk Established by Distance and direction Nearest town Menagers SPRO from nearest town 13.75 miles north

Stamping P 338 Leveling date November 1961 Chief of party D. Moncevicz

Detailed description About 13.75 miles north along a graded dirt road from the water tank and windmill at Menagers, an Indian village; 4.75 miles south of the school at Gu Vo, set in the top of a black boulder which projects 16 inches, 166 feet west of the center line of the road, 84 feet southwest of a telephone pole, 64 feet west of a telephone line, 14.0 feet north of a metal witness post, and about level with the road.

### DESCRIPTION OF BENCH MARK

Detailed description About 0.15 mile southeast along the Tucson, Cornelia and Gila Bend Railroad from the station at Ajo, thence 1.4 miles southeast along State Highway 85, thence 0.8 mile east along a dirt road which follows a pipe line, 0.4 mile west of a steel framed gate across the road, 51 feet north of the center line of the road, 1.5 feet west of a metal witness post, about level with the road, a disk on the top of a copper coated rod that is driven to a depth of 16 feet and is encased in a 6-inch tile which projects 2 inches. Nearest town A 10 county Pima chief of party D. Moncev Distance and direction from nearest town 2.3 miles east Leveling date November character of mark A C&GS Bench Mark Disk on a copper/costamping A 336 1961 Established by C&GS Arizona Chief of party D. Moncevicz Leveling date November 1961 Pima

### DESCRIPTION OF BENCH MARK

Designation E 336 State Arizona Nearest town A 10 County Pilma County Pilma Distance and direction from nearest town 3.35 miles east Character of mark A C&GS Eench Mark Disk Arizona

Chief of party D. Moncevicz Leveling date November 1961 Stamping B 336 1961

Gila Eend Radircad from the station at Ajo; thence 1.4 miles southeast along State Highway 85; thence 1.8 miles east along a dirt road which follows a pipe line; 0.6 mile east of a steel framed gate across the road, 76 feet north of the center line of the road, 1.3 feet north of a metal withess post, about level with the road, and set in the top of a concrete post projecting 1 inch.

JANUARY 1963

FUBLISHED AND PRINTED BY: U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY WASHINGTON D.C.

VERTICAL CONTROL DATA

Coast and Geodetic Survey SEA-LEVEL DATUM OF 1929

24 PAGE NO.

LATITUDE 32°00' to 32°30' LONGITUDE 112°30' to 113°00' DIAGRAM NI 12-10 AJO QUAD 321123

### DESCRIPTION OF BENCH MARK

chief of party D. Moncevicz Leveling date C 336 1961 stamping C 336 1961 Pima Nearest town Ajo county Pima county Pima Distance and direction from nearest town 4.35 miles east Remainstor of mark A C&GS Bench Mark Disk

Detailed describtion About 0.15 mile southeast along the Tucson, Cornelia and Gila Bend Railroad from the station at Ajo; thence 1.4 miles southeast along State Highway 85; thence 2.8 miles east along a dirt road which follows a pipe line; 1.6 miles east of a steel framed gate across the dirt road, about 100 yards northeast of the crossing of the road and a sandy wash, 104 feet northwest of the enter line of the road and a northwest of a metal witness post, about level with the road, 1.3 feet the top of a concrete post projecting 4 inches. Established by C&GS

### DESCRIPTION OF BENCH MARK

State Arizona County Pima					
Designation D 336 State Arizona	Ajo	lirection from nearest town 5.	sark A C&GS Bench Mark	r C&GS	11
Designation	Nearest town	Distance and d	Character of m	Established by	

Detailed description About 0.15 mile southeast along the Tucson, Cornelia and Gila Bend Railroad from the station at Ajo; thence 1.4 miles southeast along State Highway 85; thence 3.9 miles east along a dirt road which follows a pipe line; 2.75 miles east of a steel framed gate across the road, about 100 yards southeast of a sandy wash, 78 feet south of the center line of the road, 0.9 foot south of a metal witness post, about level with the road, and set in the top of a concrete post projecting 6 inches.

### DESCRIPTION OF BENCH MARK

### DESCRIPTION OF BENCH MARK

County Pima Chief of Darty D. Moncevicz	Coarectinodate November 1961	
State Arizona County Pima	Distance and direction from nearest town 7.5 miles east	100000000000000000000000000000000000000
Designation F 336	Distance and direction from n	Established by C&GS

Detailed description About 0.15 mile southeast along the Tucson, Cornella and Gila Bend Railroad from the station at Ajo; thence 1.4 miles southeast along State Highway B5; thence 5.95 miles east along a dirt road which follows a pipe line; 3.7 miles west of a metal windmill, 85 feet south of the center line of the road, 1.2 feet south of a metal windes post, about lavel with the road, on the top of a 5/8-inch copper coated rod that is driven to a depth of 11 feet and is encased in a 6-inch tile which projects 4 inches.

### DESCRIPTION OF BENCH MARK

Established by C&GS

Detailed description About 0.15 mile southeast along the Tucson, Cornelia and Gila Bend Railroad from the station at Ajo; thence 1.4 miles southeast along State Highway 85; thence 6.95 miles east along a dirt road which follows a pipe line; 2.7 miles west of a metal windmill, 75 feet south of the center line of the road, 1.3 feet south of a metal witness post, about level with the road, and set in the top of a concrete post projecting 6 chief of party D. Moncevicz Leveling date November 1961 Stamping G 336 1961 County Pima Arizona Designation G 336 state Arizona
Nearest town Ajo
Distance and direction from mearest town 8.5 miles east
Carricter of mark A C&GS Bench Mark Disk

### DESCRIPTION OF BENCH MARK

chief of party D. Moncevicz Leveling date November 1961 stamping H 336 1961 Designation H 336

Nearest town Ajo

County Pima

County Pima

County Pima

County Pima

County Pima

County Pima

Character of mark A C&GS Bench Mark Disk

Established by C&GS

### DESCRIPTION OF BENCH MARK

County Pima Chief of party D. Moncevicz Leveling date November 1961 stamping J 336 1961	Fucson, Cornelia and a 1.4 mirs southeast g a dirt road which all windmill, 0.1 mile of a junction of the refort and on the roast of the road.
Designation J 336 State Arizona Nearest com Ajo Distance and direction from nearest town 10,45 miles east Established by C&GS Dench Mark Disk	Detailed description. About 0.15 mile southeast along the Tucson, Cornelia and Gills End Arilroad from the station at Ajo; thence 1,4 miles southeast along State Highway 85; thence 8.9 miles east along a dirt road which follows a pipe line; 0.75 mile southwest of a metal windmill; 0.1 mile northeast of a wooden corral, 150 feet northeast of a function of the dirt road and a dirt road leading south, set in the foot and on the northwest side of a solid rock hill; 30 feet southeast of the center line of the road, and about 1½ feet above the level of the road.

### DESCRIPTION OF BENCH MARK

		_										
County Pina	Chief of party D. Moncevicz	Leveling date November 196	Stamping K 336 1961		the Tucson, Cornelia and	ence 1.4 miles southeast	along a dirt road which	metal windmill, set in the	inches above the ground,	oad, 20 feet northeast of	metal witness post, and	
State Arizona	County Pima	rom nearest town 11.45 miles east	Character of mark A C&GS Eench Mark Disk		bout 0.15 mile southeast along	id from the station at Ajo; the	way 85; thence 9.9 miles east a	ine; 0.25 mile northeast of a n	Lack boulder which projects 24	126 feet northwest of the center line of the road, 20 feet northeast of	naro, 58.5 feet northwest of a	the mose
Designation K 350	earest town Alo	distance and direction f	Character of mark A C&	Established by C&GS	Detailed description Al	Gila Fend Railros	along State High	follows a pipe li	top of a large b	126 feet northwes	a tall, twin sagu	about lower with

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COAST AND GEODETIC SURVEY

WASHINGTON D.C.

PAGE NO.

LATITUDE 32°00' to 32°30' LONGITUDE 112°30' to 113°00' DIAGRAM NI 12-10 AJO 321123

Line 107

DESCRIPTION OF BENCH MARK

Designation T 11 S (USGIOS)

State Arizona county Pima chief of party D. Moncevicz Negrest town Ajo

Negrest town Ajo

Negrest town Ajo

Negrest town Ajo

Negrest town 12.45 miles east Cap Leveling date November 1961

Pistance and direction from nearest town 12.45 miles east Cap Leveling date November 1961

Established by U. S. General Land Office Survey

Established be U. S. G

### DESCRIPTION OF BENCH MARK

Designation L 336

county Pima
chief of party D. Moncevicz
plastange, and direction from nearest town 13.45 miles east
character of mark A C&GS Bench Mark Disk on a copper/costantial conty
plastantial conty pima
character of mark A C&GS Bench Mark Disk on a copper/costantial conty
conty Pima
character of mark A C&GS Bench Mark Disk on a copper/costantial conty
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character of pima
county Pima
character of pima
character of mark A C&GS Bench Mark Disk on a copper/costantial county
conty Pima
character of About 0.15 mile southeast along the Tucson, Cornelia and penalted description About 0.15 mile southeast along the Tucson, Cornelia and along State Highway 85; thence 11.9 miles east along a dirt road which follows a pipe line; 2.25 miles northeast of a metal windmill, 55 feet west of the center line of the road, 0.6 foot west of a metal witness west of the center line of the road, a disk on the top of a 5/8-inch copper post, about level with the road, a disk on the top of a 5/8-inch copper post, are that is driven to a depth of 7 feet and is encased in a 6-inch tile which projects 6 inches.

### DESCRIPTION OF BENCH MARK

M 336

permitted description About 0.15 mile southeast along the Tucson, Cornelia and permitted description at Ajo; thence 1.4 miles southeast ding State Highway 85; thence 12.95 miles east along a dirt road which along state Highway 85; thence 12.95 miles east along a dirt road which follows a pipe line; 3.25 miles northeast of a metal whindmill, in the top of a black boulder which projects 10 inches, 195 feet northwest of the center line of the road, 5.7 feet northwest, of a metal witness post, and about 2 feet above the level of the road. County Pima pistance and direction from nearest town 14,5 miles east character of mark A C&GS Bench Mark Disk established by C&GS chief of party D. Moncevicz Leveling date November 1961 Stamping M 336 1961

### DESCRIPTION OF BENCH NARK

petalled description About 0.15 mile southeast along the Tucson, Cornelia and petalled description About 0.15 mile southeast along the role 1.4 miles southeast 41.1 bend Railroad from the station at Ajo; thence 1.4 miles southeast 41.0 bend Railroad which along that Highway 85; thence 14.0 miles east along a dirt road which along a pipe line; 4.25 miles northeast of a metal windmill, in the top of a black boulder which projects 12 inches, 36 feet southeast of the center ilne of the road, and about 4 feet above the level of the road.	Besignation N 336  Represt toyn A 10  Represt toyn A 10  Represt toyn A 10  Represt toyn 15.55 miles east pissance and direction from nearest town 15.55 miles east passance of mark A C&GS Bench Mark Disk
he Tucson, Cornelia and noe 1,4 miles southeast along a dirt road which metal windmill, in the top feet southeast of the the level of the road.	County Pima D. Moncevicz Chief of party D. Moncevicz Leveling date November 1961 Stamping N 336 1961

### DESCRIPTION OF BENCH MARK

Detailed description About 0.15 mile southeast along the Tucson. Cornelia and Gila Bend Railroad from the station at Ajo; thence 1.4 miles southeast along State Highway 85; thence 14.9 miles east along a dirt road which follows a pipe line; 5.25 miles northeast of a metal windmill, set vertically in the northwest face of a very large boulder which projects 8 feet, 124 feet southeast of the center line of the road, and about 6 feet above the level of the road.

Designation P 336

Nearest town Ajo

Distance and direction from nearest town 16,45 miles east
Character of mark A C&GS Bench Mark Disk

Character of mark A C&GS Bench Mark Disk

DESCRIPTION OF BENCH MARK

Arizona

County Pima Chief of party Stamping P 336 Leveling date

November 1961 D. Moncevicz 1961

Character of mark A C&GS

Established by C&GS Detailed description About 0.15 mile southeast along the Tucson, Cornelia and Detailed description About 0.15 mile southeast Glia Bend Railroad from the station at Ajo; thence 1.4 miles southeast along State Highway 85; thence 15.45 miles east along a dirt road which along State Highway 85; thence 15.45 miles east along a dirt road which follows a pipe line; 5.8 miles northeast of a metal windmill, set in the top of a rock on the north bank of a large draw, 22 feet west of the center line of the road, 185 feet east of a pipe line, and about level with the road.	Designation Q 336  Nearest town Ajo  Nearest town Ajo  Distance and direction from nearest town 17.0 milles east Character of mark A C&GS Bench Mark Disk  State Arizona O  County Pima Co
Tucson, Cornelia and 1.4 miles southeast ong a dirt road which I windmill, set in the 2 feet west of the ine, and about level	county Pima chief of partyD. Moncevicz chief of partyD. Moncevicz Leveling date November 1961 stamping Q 336 1961

### DESCRIPTION OF BENCH MARK

County Pima State Arizona

Stamping R 336 1961 Chief of party D. Moncevicz Leveling date November 1961

Designation R 336 Nearest town A 30

along State Highway 8); Thence 10.49 miles cast along for the follows a pipe line; 3.1 miles southwest of a gate leading into the Fapago Indian Reservation; set in the top of a flat rock which is flush with the ground, 19 feet southeast of the center line of the road, 8.3 with the ground, 19 feet southeast of the center line of the road.	Gila Bend Railroad from the station at Ajo; thence 1.4 miles southeast	Established by C&GS Detailed description About 0.15 mile southeast along the Tucson, Cornelia and	Character of mark A C&GS Bench Mark Disk	

### DESCRIPTION OF BENCH MARK

Established by C&GS  Detailed description About 0.15 mile southeast along the Tucson, Cornelia and private description and from the station at Ajo; thence 1.4 miles southeast Gila Bend Railroad from the station at Ajo; thence 1.4 miles southeast along State Highway 85; thence 17.1 miles east along a dirt road which along State Highway 85; thence 17.1 miles east along a dirt road which along state entering the Papago follows a pipe line; 2.45 miles southest of a gate entering the Papago Indian Reservation; on the top of a hill and in a pass between two mountains, set in the top of a black boulder which projects 1 foot, 117 feet tains, set in the top of a black boulder which projects 1 foot, 117 feet south of the center line of the road, 4.3 feet southeast of a metal witness post, and about 2 feet above the level of the road.	Designation S 336 State Arizona Nearest town A/O County Pima pistance and direction from nearest town 18,65 miles east Character of mark A C&GS Bench Mark Disk
souttion 17. son of a	State County 8,65 Disk
theast along the at Ajo; thence i miles east alon at these tof a gate hill and in a poulder which project, 4.3 feet sout evel of the road.	
Tucso 1.41 ent ent ects	County Plma Chief of party D. Mcncevicz Leveling date November 196 stamping S 336 1961
on; dirt dirt betv	of pa ng da
Corr s so ros ng th	Pima party D date N S 33
nelia outhouth d will two 1/1	fover
easthich	nber 961
the	ma November 1961 336 1961
W.	

JANUARY

U.S. DEPARTMENT OF CONMERCE COAST AND GEODETIC SURVEY WASHINGTON D.C. PUBLISHED AND PRINTED BY:

CONTROL DATA VERTICAL

by the

Coast and Geodetic Survey SEA-LEVEL DATUM OF

PAGE NO. 26 QUAD 321123

to 32°30' to 113°00' AJO DIAGRAM NI 12-10 LATITUDE 32°00' LONGITUDE 112°30'

### DESCRIPTION OF BENCH MARK

Distance and direction from nearest town 19.65 miles east Character of mark A C&GS Bench Mark Disk Designation T 336

State Arizona

chief of party D. Moncevicz Leveling date November 1961 stamping T 336 1961 County Pima

Detailed description About 0.15 mile southeast along the Tucson, Cornelia and Gila Bend Railroad from the station at Ajo; thence 1.4 miles southeast along State Highway 85; thence 18.1 miles east along a dirt road which follows a pipe line; 1.45 miles west of a gate entering the Papago Indian Reservation; set in the top of a black rock outcrop which projects 30 inches, 26 feet east of the center line of the road, and about 4 feet above the level of the road.

### DESCRIPTION OF BENCH MARK

Pima

County

Designation U 336 county Pima Nearest town Ajo Distance and direction from nearest town 20,65 miles east

chief of party D. Moncevicz Leveling date November 1961 stamping U 336 1961 Detailed description bound to a factor of mile southeast along the Tucson, Cornelia and Gila Bend Railroad from the station at Ajo; thence 1.4 miles southeast along State Highway 85; thence 19.3 miles east along a dirt road which follows a pipe line; 0.25 mile west of a gate entering the Papago Indian Reservation, set in the top of a black boulder which projects 1 foot, 35 feet south of the center line of the road, on the west slope of the east bank of a wash, and about 2 feet above the level of the road.

### DESCRIPTION OF BENCH MARK

County Pima

State Arizona

Chief of party D. Moncevicz Leveling date November 1961 Stamping V 336 1961 County Pima county Pima direction from nearest town 21.2 miles east Character of mark A C&GS Bench Mark Disk Established by C&GS

Detailed description About 0.15 mile southeast along the Tucson, Cornella and Gila Bend Railroad from the station at Ajo; thence 1.4 miles southeast along State Highway 85; thence 19.85 miles east along a dirt road which follows a pipe line; 0.3 mile east of a gate entering the Papago Indian Reservation; 0.15 mile east of the milepost number 63, set in the top of a black bounder which projects 16 inches, 208 feet north of the center line of the road, 56.8 feet north of a metal witness post, and about 2 feet below the level of the road.

### DESCRIPTION OF BENCH MARK

Nearest town Ajo County Pima Distance and direction from nearest town 22,05 miles east Character of mark A C&GS Bench Mark Disk State Arizona C&GS W 336 A jo Established by Designation

chief of party D. Moncevicz Leveling date November 1961 Stamping W 336 1961

County Pima

Detailed description. About 0.15 mile southeast along the Tucson, Cornella and Gila Bend Rallroad from the station at Ajo; thence 1.4 miles southeast along state Highway 85; thence 20.7 miles east along a dirt road which follows a pipe line; 1.25 miles east of a gate entering the Papago Indian Reservation, 1.15 miles west of 2 valves on a pipe line, set in the top of a black boulder which projects 6 inches, 170 feet northwest and across the road from pipe line milepost number 62, 77 feet north of the center of the road, 5.2 feet north of a metal witness post, and about 2 feet below the level of the road.

### DESCRIPTION OF BENCH MARK

Leveling date November 1961 Stamping X 336 1961 chief of party D. Moncevicz County Pima State Arizona bistance and direction from nearest town 23,2 miles east character of mark A C&GS Bench Mark Disk Betablished by C&GS Bench Mark Disk betabled described by C&GS

Gila Bend Railroad from the station at Ajo; thence 1.4 miles southeast along state Highway 85; thence 2.88 miles east along a dirt road which follows a pipe line; or about 6.5 miles northwest along a graded dirt road from the water tank at Ventana; thence 14.1 miles west along a dirt road which follows a pipe line; 49 feet south of the center line of the road, 44 feet southwest of the more easterly of 2 valves on the pipe and set in the top of a metal witness post, about level with the road, and set in the top of a concrete post projecting 4 inches.

### DESCRIPTION OF BENCH MARK

Stamping date November 1961 Stamping 50 GWM 1948 2379 Distance and direction from nearest town 19.75 miles west Leveling date November 1961 stamping 50 GWM 1948 2379 Established by US Geological Survey Disk stamping 50 GWM 1948 2379 Established by US Geological Survey and the water tank at Ventana; thence 13.25 miles west along a dirt road from the water tank at Ventana; thence 13.25 miles west along a dirt road which follows a pipe line; or about 0.15 miles coutheast along the Tucson, cornella and Gila Bend Railroad from the station at Ajo; thence 1.4 miles southeast along State Highway 85; thence 22.7 miles east along a dirt road which follows a pipe line; 0.85 mile east of 2 valves on the pipe line, 0.3 mile east of a wash, 31.5 feet south of the center line of the road, 31 feet southwest of Pipe line milepost number 60, 46 yards west of BM Y 336, and about level with the road. Chief of party D. Moncevicz County Pima State Arizona County Pima Designation 50 GWM (USGS) Nearest town Ventana

### DESCRIPTION OF BENCH MARK

Nearest town Ventana County Pima Control Pima Distance and direction from nearest town 19,75 miles West Character of mark A C&GS Bench Mark Disk Established by C&GS

County Pima Chief of party D. Moncevicz Leveling date November 1961 stamping Y 336 1961

the water tank at Ventana; thence 13.25 miles west along a dirt road from the water tank at Ventana; thence 13.25 miles west along a dirt road which follows a pipe line; or about 0.15 mile southeast along the Tucson, Cornella and Gila Bend Railroad from the station at Ajo; thence 1.4 miles southeast along State Highway 85; thence 22.7 miles east along a dirt road which follows a pipe line; 0.85 mile east of 2 valves on the pipe line, 0.3 mile east of a wash, 41 feet south of the center line of the road, 125 feet southeast of pipe line milepost number 60, 1.4 feet top of a metal witness post, about level with the road, and set in the top of a concrete post projecting 5 inches.

### DESCRIPTION OF BENCH MARK

chief of party D. Moncevicz Leveling date November 1961 Stamping . Z 336 1961

Designation Z 336 state Arizona county Pima county Pima County Pima County Pima County Pima Chiracter of mark Worksham 18,75 miles west Leveling are November 196 starting are 1961 starting and a dirt road leading northwest, 43 feet south of the center line of the road, 182 feet east of pipe line milepost number 59, 1,5 feet south of a metal withcass post, about level with the road, and set in the top of a concrete post projecting 5 inches.

# VERTICAL CONTROL DATA by the Coast and Geodetic Survey SEA-LEVEL DATUM OF 1929

PUBLISHED AND PRINTED BY:
U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
WASHINGTON D.C.

DINGIN	LONGIS	LATITU	QUAD. 32
	TUDE 112 00' to 112 3		Ľ
	AJO	0 32°30	

13 WF (USGS) 723,472 .M 337 747,440		a supplementary adjustment  Bench Mark Adjusted	supervised by M.n. so	The field work (1-18609)  done in November 1961 by a p	LINE 102	37	177	EFS 1 749.068 M 37 815.362 N 37 812.496 P 37 767.447	X 37 701.696 N 337 674.462 P 337 691.612	337	G 明日 37	37 628. 37 608.	Bench Mark Adjusted (Meters)	The elevations for leveling are based on mentary adjustment of elevations for the 196 leveling are based on mentary adjustment of	rvised by G.R. F ling (L-18612) w vicinity of Pozo ber 1961 by a pa- d by M.H. Schill	The field work (L-done in November 1933	Second-order)	
472 2373.591 440 2452.226	- 1	tment of 1962. sted Elevation	Ф О.	-18609) was by a party			813 2397.676 148 2260.980	2271.4 268 2457.567 362 2675.067 496 265.664 447 2517.866			troyed troyed troyed	18 2062.063 179 1995.334	ted Elevation (Feet)	for the 1933 on a supple- of 1958. The 1961 check on a supple- of 1962.	ish. Check as done in Blanco in rty super- y.	945) was by a party	er)	
		SANTA RM 1 SANTA RM 2		A 85 RM 1 A 85 RM 2 B 310		4 X X	Bench Mark	Rosa in Februar supervised by J These eleva supplementary a	The field w in 1935 by a pa G.R. Fish. Che was done in the	(Seco		A 337		J 337 17 WF (USGS) THE LINE LE	14 WF (USGS) L 337 15 WF (USGS) K 337 16 WF (USGS)	Bench Mark	100 (111	
		549.611 180 549.539 180 549.763 180	48.953	560.080 1838. 560.223 1837. 560.092 1837.	960	506.257 166 515.735 169 529.470 173	Adjusted Elevati (Meters) (Fee	bruary 1952 by a part, by J.R. Plaggmier. elevations are based carry adjustment of 195	The field work (1-5899) was done in 1935 by a party supervised by G.R. Fish. Check leveling (1-14475) was done in the vicinity of Santa	(Second-order)		666.553 2186 668.928 2191		706.247 2317.0 696.456 2291.5 E LEAVES AND RE-ENTERS	798.706 2620 766.564 2514 753.625 2472 742.190 2435 742.986 2365	Adjusted Elevation (Meters) (Feet)	Continued)	
	70,114	1803,182 1802,946 1803,681	023	47.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	4, 255	1660.945 1692.041 1737.103	(Feet)	58° a	s done by 14475)			2186.849	3. 145	. 518 . 518	2620.421 2514.969 2472.518 2435.002 2365.435	tion eet)		
A 311 J 91	Bench Mark	These elevat supplementary ad	in February 1952 by J.R. Plaggmier	The field wor)		PISINEMO RM 3 A 339 C 339	B 339 PISINEMO RM 1 PISINEMO 1935	2 4 X X 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8			Bench Mark	These elevati supplementary adj	in October 1961 by M.H. Schilly.	LINE (Second	# A # # U	Bench Mark	LINE (Conti	
542.479 1 542.740 1	Adjusted Ele (Meters)	ions are base justment of l	by a party •	-order)		79.578 74.743 71.247	578.068 18 577.647 18		179		Adjusted Ele (Meters)	tions are based of djustment of 1962	by a party supervised .	OIL	Destroye 624.074 20. 655.472 21. 704.977 23. 745.998 24	Adjusted Eler (Meters)	103 nued)	
1779.783 1780.639	levation (Feet)	958. 958.	upervised	) was done		385.636 874.166	1896.545 1895.164 1895.003	2017.621 1989.317 1965.856 1934.235	2124.438 2084.704	45.593 36.931	Elevation (Feet)	on a	ervised	as done	royed 2047.483 2150.494 2312.912 2447.495	(Feet)		
		0	15 T	1974.2 (USGS) M 91 RM (USGS) M 91	Bench Mark	These eleva	The field work (In February 1952 by a by J.R. Plaggmier.	(Sec.	J 90 F 311 K 90	N 311 RM (USGS)	M 311 M 311 RM (USGS) H 90		ж 310 ¥ 30	M 310 M 310	Z 310 S 310 H 90 H 310	Bench Mark	(Cont	
		705.859	661.754	601.724 624.465 629.443	Adjusted (Meters)	are	ork (L-144/5) 2 by a party s er.	LINE 106 Second-order)	680.995 679.002 671.587	688.722 688.832	719.827 719.106 702.742	707.311	671. 482	619.714 633.560 636.706	545.461 573.947 576.066 597.083		LINE 105 (Continued)	
	, par 10 °	2315	2171.105	1974.156 2048.766 2065.098	Elevation (Feet)	based on a of 1958.	y supervised	n	2234.231 2227.692 2203.365	2259,943	2361.632 2359.267 2305.579	2320.569	2203.021	2035 2078 2078 2078 2078 2121,538	1789.567 1883.024 1889.977 1930.416 1958.930	1,		

### VERTICAL CONTROL by the DATA

Coast and Geodetic Survey

Designation D 37 Nearest town AJo

RECOVERY NOTE, BENCH MARK

State

Arizona

Pima

Z

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

Distance and direction from nearest town Character of mark Standard disk

29.6 miles east

Stamping Recovery Date Chief of Party

Oct. 1934

Detailed report

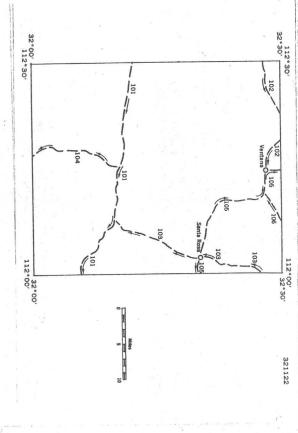
Present condition Established by

> GOOD Standard USC&GS

> > 321122 PAGE NO.

LONGITUDE ARIZ. LATITUDE 32°00' to 32°30' 112°00' to 112°30' NI 12-10 AJO

PUBLISHED AND PRINTED BY: U.S. DEPARTMENT OF COMMERCE WASHINGTON D.C. AND GEODETIC SURVEY



TIME 101

(1-8-58)

RECOVERY NOTE, BENCH MARK COAST AND GEODETIC SURVEY

N

Detailed report

Present condition Established by

Character of mark

Designation F 37

Nearest town

Distance and direction from nearest town 27.6 miles east Designation C 37 Nearest town AJO Character of mark State Arizona

Recovery Date Oct. 1934

Chief of Party

Established by Standard disk USC&GS GOOD

Detailed report Present condition

27.6 miles east along State Highway 86 from the Tucson, Cornella & Gila Bend Railroad station at Ajo, Pima County, on the old Ajo-Tucson highway, 0.3 mile east of a dip in the highway, and 48 feet north of the centerline of the highway. A standard disk, stamped "2062.286 C 37 1933" and set in the top of a concrete post projecting 1 foot above ground.

### RECOVERY NOTE, BENCH MARK U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

29.6 miles east along State Highway 86 from the Tucson, Cornelia & Gila Bend Railroad station at Ajo, Pima County, on the old Ajo-Tucson highway, 0.1 mile east of a dip in the highway, and 52 feet north of the centerline of the highway. A standard disk, stamped "1995.547 D 37 1933" and set in the top of a concrete post projecting 1 foot above ground.

(1-8-58)

Established by Character of mark Standard disk Designation E Nearest town Ajo Arizona

31.5 miles east

USC&GS

Chief of Party
Recovery Date April 1962
Stamping 1958.841 E 37

County

Pima

Z

Detailed report Present condition Disk received in office 15 May 1958. DESTROYED

RECOVERY NOTE, BENCH MARK U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

Z

(1-8-58)

Distance and direction from nearest town Destroyed 1933 County State Arizona Chovery Date Recovery Date Stamping "1935,849 F 37 1933" Chief of Party County

Disk returned to this Office by Level Party 616

COAST AND GEODETIC SURVEY

(1-8-58)

RECOVERY NOTE, BENCH MARK

1933 Arizona

Distance and direction from nearest town

Nearest town Designation G 37

Chief of Party Pima

Recovery Date Stamping "1955, 613 G 37 1933"

Disk returned to this Office by Level Party 616

Detailed report Present condition Established by Character of mark

Destroyed

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY AND PRINTED BY:

PUBLISHED

WASHINGTON D.C.

### VERTICAL CONTROL DATA by the

PAGE NO.

N.

Coast and Geodetic Survey SEALEVEL DATUM OF 1929

32°00' to 32°30' 112°00' to 112°30' NI 12-10 AJO 321122 LONGITUDE LATITUDE DIAGRAM

(1-8-58)

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

RECOVERY NOTE, BENCH MARK

County 5.3 miles west Arizona State Distance and direction from nearest town Character of mark Standard d1sk Established by USC&GS Designation H 37 Nearest town Blanco

Chief of Party Recovery Date Oct. 1934 Stamping

Established by USC&C Present condition GOOD Detailed report 5.3 miles west along State Highway 86 from Pozo Blanco, Pima County, on the old Ajo-Tucson highway, 0,3 mile west of a concrete-protected dip at the center of a curve, and 39 feet south of the centerline of the highway. A standard disk, stamped "2040.399 H 37 1933" and set in the top of a concrete post projecting 10 inches above ground.

Quijotoa-Vamori Area, Arizona

U.S. DEPARTMENT OF COMMERCE

J-8-58]

RECOVERY NOTE, BENCH MARK

Chief of Party D. Moncevicz Recovery Date October 1961 Stamping J 37 1933 2153.654 County Pima Nearest town Tracy
County Pima
Distance and direction from nearest town 5.0 miles east
character of mark A C&GS Bench Mark Disk State Arizona

C&GS

Character of mark Established by

Designation J 37 Nearest town Tracy

persent condition Good

persent maintenance camp at Tracy, an indian village; i.6 miles west

of the junction of State Highway 86 and a road leading south to Pistinimo,

an indian village; 0.4 mile west of the junction of State Highway 86 and

a road leading north, 48 feet north of the center line of the highway,

36½ feet south of a telephone pole, 0.9 foot north of a metal witness

post, about 1 foot below the level of the highway, and set in the top

of a concrete post projecting 1 foot.

Quijotoa-Vamori Area, Arizona U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

Chief of Party D. Moncevicz Recovery Date October 1961 Stamping K. 37, 1933, 2302,315 BLANCO 1936 County Pima RECOVERY NOTE, BENCH MARK

Designation K 37 State Arizona County Pima County Pima County Pima County Pima Chief of Party D. Moncevicz Distance and direction from nearest town 7.0 miles east Recovery Date October. 196 Stamping K 37 1933 2302. Established by C&GS Bench Mark Disk Stamping K 37 1933 2302. Established by C&GS Dench Mark Disk BLANCO 1936 Detailed report About 2.0 miles east along State Highway &6 from the high-way department maintenance camp at Trecy, an indian village; 0.4 mile east of the junction of State Highway &6 and a road leading south to Pisinimo, an indian village; 54 feet south of the center line of whe highway, 129 feet south and across the highway from a telephone pole, highway, 2000 feet south and across the highway from a telephone pole, and set in the top of a concrete post projecting 1 foot.

Quijotoa-Vamori Area, Arizona DESCRIPTION OF BENCH MARK

Designation N 337

Nearest town Tracy
Nearest town Tracy
Distance and direction from nearest town
Distance and direction from nearest town
Character of wark A C&CS Bench Mark Disk
Established by
Detailed description About 5.8 miles east along State Highway 86 from the highway
Detailed description About 5.8 miles east along State Highway 86 from the highway
Detailed description of State Highway 86 and a road leading north, 0.8 mile
of the junction of State Highway 86 and a road leading south to
West of the junction of State Highway 86 and a road leading south to
Plsinino, an indian village, set in line with a row of telephone poles,
88 feet north of the center line of the highway, 67 feet east of a telephone pole, 1.9 feet north of a metal witness post, about level with the highway, and set in the top of a concrete post projecting 3 inches.

Quijotoa-Vamori Area, Arizona DESCRIPTION OF BENCH MARK

Nearest town Tracy
Nearest town Tracy
Distance and direction from nearest town 6.6 miles east
Character of sawk A C&GS Bench Mark Disk
Established by C&GS

Chief of party D. Moncevicz Leveling date October 1961 Stamping P 337 1961 County Pima Stamping

Detailed description About 6.6 miles east along State Highway 86 from the highway department maintenance camp at Tracy, an indian village; 152 feet southwest of the center of the junction of State Highway 86 and a road leading south to Pisinimo, an indian village; 119 feet south of the center line of the Highway, 89 feet west of the center line of the road leading south, 47 feet south of a telephone pole, 1.5 feet west of a metal witness post, about level with the road, and set in the top of a concrete post projecting 6 inches.

DESCRIPTION OF SUPPLEMENTARY ELEVATION POINT

B.

Extra Foresight No. 1 State Arizona County Pima Distance and direction from bench mark 152 feet northeast of B.M. P 337 Detailed description At the junction of the center lines of State Highway 86 and a road leading south to Pisinimo.

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

RECOVERY NOTE, BENCH MARK

Distance and direction from nearest town O.6 mile east Character of mark Standard disk State Designation L 37 Nearest town Pozo Blanco

Established by USC&GS Present condition GOOD

Detailed report

County

Chief of Party Recovery Date Oct. 1934 Stamping

0.6 mile east along State Highway 86 from the church at Pozo Blanco, Pima County, on the old Ajo-Tucson highway, on the east side of a low rocky point extending down to the highway from the south, 81 feet sputh of the centerline of the highway, in the trop of a silicified rhyolite outcrop, and 6 inches above the ground. A standard disk, stamped "2457,731 L 37 1933."

WASHINGTON D.C. COAST AND GEODETIC SURVEY PUBLISHED AND PRINTED BY: U.S. DEPARTMENT OF COMMER COMMERCE

FORM 685A (1-8-58)

Designation

M 37 Sells

RECOVERY NOTE, BENCH MARK

State Arizona

Recovery Date Chief of Party

Oct. 1934

Z

U.S. DEPARTMENT OF COMMERCE

County County County Character of mark Standard disk

Established by

GOOD

Detailed report Present condition

Battered, but legible.

28.9 miles west along State Highway 86 from the post office at Sells, Pima County, 2.6 miles east of the church at Pozo Blanco, on the old Ajo-Tucson highway, and 30 feet south of the centerline of the highway. A standard disk, stamped "2675.221 M 37 1933" and set in the top of a concrete post projecting 8 inches above ground.

Coast and Geodetic Survey SEA-LEVEL DATUM OF 1929

QUAD. DIAGRAM LONGITUDE LATITUDE 321122 32°00' to 32°30' 112°00' to 112°30' NI 12-10 AJO

Line 101

RECOVERY NOTE, BENCH MARK U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

R 37 Sells USC&GS 22.8 miles northwest Recovery Date Oct. 1934 Arizona

Stamping Chief of Party

Nearest town

Detailed report Character of mark Distance and direction from nearest town Standard disk Present condition Established by GOOD

22.8 miles northwest along State Highway 86 from the post office at Sells, Pima County, on the old Ajo-Tucson highway, 2.5 miles east of Savage's Store (in 1934), and 36 feet north of the centerline of the highway. A standard disk, stamped "2397.813 R 37 1933" and set in the top of a concrete post projecting 8 inches above ground.

RECOVERY NOTE, BENCH MARK U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

Distance and direction from nearest town disk 26.8 miles west Arizona

Designation N 37

Sells

Established by Character of mark

Standard USC&GS

Pima Oct. 1934

Recovery Date Chief of Party

Detailed report Present condition Disk is loose and bent slightly

26.8 miles west along State Highway 86 from the post office at Sells, Pima County, on the old Ajo-Thuson highway, 1.4 miles west of Savage's Store (in 1934), 350 feet west of a culvert at the north point of a rocky slope, 46 feet south of the centerline of the highway, in the top of a grey outcrop, and about 2 inches above the ground. A standard disk, stamped \*2665.812 N 37 1933."

(1-8-58)

U.S. DEPARTMENT OF COMMERCE

RECOVERY NOTE, BENCH MARK

Distance and direction from nearest town
Character of mark Standard disk Character of mark Designation P 37 Nearest town Sells Nearest town Standard 24.8 miles northwest Recovery Date March 1935 Arizona Chief of Party

Present condition Established by GOOD USC&GS

Detailed report

24.8 miles northwest along State Highway 86 from the post office at Sells, Pima County, on the old Ajo-Tucson highway, of 5 mile east of Savage's Store (in 1934), 300 feet west of an Indian graveyard, opposite a small clearing on the north side of the highway, and 42 feet south of the centerline of the highway. A standard disk, stamped "2518,003 P 37 1933" and set in the top of a concrete post projecting 7 inches above ground.

Designation S 37 Character of mark Distance and direction from nearest town Character of mark Standard disk Present condition Established by Nearest town Sells GOOD USC&GS

Detailed report

RECOVERY NOTE, BENCH MARK Arizona

U.S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

miles northwestRecovery Date Stamping Chief of Party Oct. 1934

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

20.9 miles northwest along State Highway 86 from the post office at Sells, Pima County, on the old Ajo-Tucson highway. 4.4 miles east of Savage's Store (in 1934), at a long curve in the highway, and 39 feet south of the centerline of the highway. A standard disk, stamped "2261,118 S 37 1933" and set in the top

of a concrete post projecting 10 inches above ground.

RECOVERY NOTE, BENCH MARK

Designation T 37 Nearest town Sells Character of mark Distance and direction from nearest town Established by USC&GS Standard 18.9 miles northwest Recovery Date Oct. 1934 Arizona Chief of Party

Detailed report Present condition

GOOD

18.9 miles northwest along State Highway 86 from the post office at Sells, Pima County, on the old Ajo-Tucson highway, 6.4 miles east of Savage's Store (in 1934), 60 feet north of the centerline of the highway, and in line with a row of poles. A standard disk, stamped "2142.191 T 37 1933" and set in the top of a concrete post projecting 10 inches above ground.

Coast and Geodetic Survey

4

U.S. DEPARTWENT OF COMMERCE COAST AND GEODETIC SURVEY WASHINGTON D.C. PUBLISHED AND PRINTED BY:

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

RECOVERY NOTE, BENCH MARK

K

oct. 1934

County Pima County Character of mark Standard disk Established by USC&GS State Arizona Designation Y 37 Nearest town Sells Present condition office at Sells, Pima County, on the old Ajo-Tucson highway, 8.4 miles east of Savage's Store (in 1934), 66 feet north of the centerline of the highway, and in line with a row of poles. A standard disk, stamped "2200,389 Y 37 1933" and set in the top of a concrete post projecting 10 inches above ground.

### DESCRIPTION OF BENCH MARK

County Pima
Chief of party D. Moncevicz
Leveling date November 1961 Designation R 47 (USGS) state Arizona county Pima chief of party D. Moncevicz Distance and direction from nearest town 17.8 miles west leveling date November 196 charter of mark A US Geological Survey Disk stamping Branch R 47 1930 Established by US Geological Survey Disk stamping a graded dirt road the water tank at Ventana; thence 11.3 miles west along a dirt road the water tank at Ventana; thence 0.1 mile south across brushy land; which follows a pipe line; thence 0.1 mile south across brushy land; 0.15 mile west and 0.1 mile south of pipe line milepost number 58, 0.55 mile west of a junction of the road and a road leading northwest, 0.35 mile west of a metal witness post, about level with the road, and set in the top of a concrete post projecting 8 inches.

### DESCRIPTION OF BENCH MARK

	£-1
County Finds Chief of party D. Moncevicz Leveling date November 1961 Stamping 13 WF 1948 2374	Betablished by US Geological Survey  Detailed description About 6.5 miles northwest along a graded dirt road the water tank about 6.5 miles northeast of a junction of the road which follows a pipe line; 0.45 mile northeast of a junction of the road and a road leading southwest, 0.3 mile northeast of a wash, 300 feet southwest of pipe line mile post number 57, 36 feet southeast of the center southwest of pipe line miles of the same a metal witness post; about level with the road, and set in the top of a concrete post projecting 8 inches.
state Arizona county Pima 16.6 miles west Survey Disk	es northwest along a per thence 10.1 miles wes 0.45 mile northeast o t, 0.3 mile northeast post number 57, 36 fe southeast of a concrete he top of a concrete
Designation 13 WF (USGS) State Arizona Nearest town Ventana Distance and direction from nearest town 16.6 miles West Distance and direction from nearest town 15.8 miles West	by US Geological Sur- scription About 6.5 mil. car tank at Venian; collows a pipe line; cad leading southwes set of pipe line mile it the road, 0.7 foot e road, and set in t
Designation Nearest town Distance and Character of	Established Detailed des the wat which f and a r southwe line of

# DIAGRAM

32°00' to 32°30' 112°00' to 112°30' NI 12-10 AJO 321122 LATITUDE SUAD.

### DESCRIPTION OF BENCH MARK

Nearest town Ventana county Pima county Pi Established by C&GS the propertion of the control of the water tank at Ventana; thence 9.0 miles west along a graded dirt road from the water tank at Ventana; thence 9.0 miles west along a dirt road which follows a pipe line; 57 feet north of the center line of the road, 139 feet northeast of pipe line milepost number 56, 1.3 feet north of a metal witness post, about 2 feet above the level of the road, a disk on the top of a \$7/8-inch copper coated rod that is driven to a depth of 9½ feet and is encased in a 6-inch tile which projects the inches.

### DESCRIPTION OF BENCH MARK

Chief of party D. Moncevicz Leveling date November 1961 Stamping 14 WF 1948 2620 Description Ventana
Description
Descriptio County Pima State Arizona 14 WF (USGS) Ventana

### DESCRIPTION OF BENCH MARK

Leveling date November 1961 Stamping L 337 1961 Chief of partyD. Moncevicz peraited description About 6.5 miles northwest along a graded dirt road from the water tank at Ventana; thence 6.95 miles west along a dirt road which follows a pipe line; 45 feet north of the center line of the road, 71 feet northeast and across the road from pipe line milepost number 54, 1.4 feet north of a metal witness post, about level with the road, and set in the top of a concrete post projecting 4 inches. County Pima Designation L 337 state Arizona
Nearest town Ventana county Plma
Distance and direction from nearest town 13.45 miles west
Character of mark A C&GS Bench Mark Disk
Established by C&GS

### DESCRIPTION OF BENCH MARK

county Pima Chief of party D. Moncevicz Leveling date November 1961 stamping 15 WF 1948 2472	eraded dirt road from st along a dirt road center line of the road, r 53, 1.3 feet south of i, and set in the top of
state Arizona County Pima 12.45 miles west I Survey Disk	les northwest along a thence 5.95 miles we 25 feet south of the e line milepost numbe t level with the road 6 inches.
Designation 15 WF (USGS) state Arizona Nearest town Ventana County Plma Distance and direction from nearest town 12.45 miles West Character of mark A US Geological Survey Disk Scanished by US Geological Survey	Detailed description About 6.5 miles northwest along a graded dirt road from the water tank at Ventana; thence 5.95 miles west along a dirt road which follows a pipe line, 25 feet south of the center line of the road, 10.5 feet southeast of pipe line milepost number 53, 1.3 feet south of a metal witness post, about level with the road, and set in the top of a concrete post projecting 6 inches.

U.S.

WASHINGTON D.C.

COAST AND GEODETIC SURVEY JEPARTMENT OF COMMERC

COMMERCE

Coast and Geodetic Survey SEA-LEVEL DATUM OF 1929 by the

PAGE NO. ri... G

ARIZ. LONGITUDE 32°00' to 32°30'

DIAGRAM

NI 12-10 AJO

THE LINE LEAVES AND RE-ENTERS THE QUADRANGLE

DESCRIPTION OF BENCH MARK

State Arizona

County Pima

Chief of party D. Moncevicz Leveling date November 1961 stamping E 337 1961

### DESCRIPTION OF BENCH MARK

pearest fown verticalist phistance and direction from nearest town 11.45 miles west thereofter of mark A C&GS Bench Mark Disk Designation K 337
Nearest town Ventana State Arizona

Leveling date November 1961 Stamping K 337 1961

betailed description About 6.5 miles northwest along a graded dirt road from the water tank at Ventana; thence 4.95 miles west along a dirt road which follows a pipe line, set in the top of a black boulder which projects 10 inches, 29 feet north of the center line of the road, 14 feet north and across the road from pipe line milepost number 52, and Established by C&GS about level with the road.

### DESCRIPTION OF BENCH MARK

Chief of party D. Moncevicz Leveling date November 1961 Stamping 16 WF 1948 2365

ing 8 inches.

County Pina chief of party D. Moncey. Character of mark A US Geological Survey Disk Stamping 16 WF 1948 236 Established by US Geological Survey Disk Stamping 16 WF 1948 236 the water tank at Ventana; thence 3.85 miles west along a dirt road the water tank at Ventana; thence 3.85 miles west along a dirt road the water tank at Ventana; thence 3.85 miles west along a dirt road the water tank at Ventana; thence 3.85 miles west along a dirt road the water tank at Ventana; thence 3.85 miles west along a firm mile post number which follows a pipe line, 0.1 mile east of pipe line milepost number with the south of the center line of the road, 0.8 foot south of a metal witness post, about level with the road, and set in the top of a concrete post projecting 12 inches.

### DESCRIPTION OF BENCH MARK

Rearest town Ventana county Pima county Pima county Pima county Pima Distance and direction from nearest town 9.45 miles northwest Character of mark A C&GS Bench Mark Disk Established by C&GS

Leveling date November Stamping J 337 1961 Chief of party D. Moncevicz

Detailed description About 6.5 mile northwest along a graded dirt road from the water tank at Ventana; thence 2.95 miles west along a dirt road which follows a pipe line, 92 feet north of the center line of the road, 122 feet north and across the road from pipe line milepost number 50, 1.6 feet north of a metal witness post, about level with the road, and set in the top of a concrete post projecting 6 inches.

### DESCRIPTION OF BENCH MARK

Nearest town Ventana county Pima county Pima county Pima county Pima parties town 8,45 miles northwest Designation 17 WF (USGS) State Arizona Leveling date November 1961 Stamping 17 WF 1948 2292

Chief of party D. Moncevicz

character of mark A US Geological Survey Disk

gatablished by US Geological Survey

petalled description About 6.5 miles northwest along a graded dirt road from
the water tank at Ventana; thence 1.95 miles west along a dirt road
which follows a pipe line, 29 feet south of the center line of the
road, 5½ feet south of pipe line milepost number 49, 0.7 foot south
of a metal witness post, about level with the road, and set in the
top of a concrete post projecting 1 foot.

DESCRIPTION OF BENCH MARK

the water tank at Ventana; 1.2 miles southeast of the church at Kaka, an indian village; 94 feet north of the junction of the center lines of the graded dirt road and a road leading morth, 60 feet northeast of the center line of the graded dirt road, 33 feet west of the center line of the graded dirt road, 33 feet west of the center line of the graded dirt south, 1.6 feet northwest of a metal witness post, about level with the road, and set in the top of a concrete post project-

Distance and direction from nearest town 4.8 miles northwest character of mark A C&GS Bench Mark Disk Established by C&GS

Designation E 337
Nearest town Ventana

Nearest town venuana county Flma county enter pistance and direction from nearest town 3.8 miles northwest Character of mark A C&GS Bench Mark Disk D 337 Ventana State Arizona

Leveling date November 1961 Stamping D 337 1961 Chief of partyD. Moncevicz

the water tank at Ventana; 2.2 miles southeast of the church at Kaka, an indian village; 43 feet southwest of the center line of the road, an etal witness post, about level with the road, 1.9 feet southwest of a metal witness post, about level with the road, and set in the top of a concrete post projecting 7 inches. Established by C&GS

### DESCRIPTION OF BENCH MARK

Nearest town Ventana county Pima county Pima Distance and direction from nearest town 2.75 miles West Character of mark A C&GS Bench Mark Disk Established by C&GS

Stamping Leveling date Stamping C Chief of party D. Moncevicz County Pima November 1961

permissed description About 2.75 miles west along a graded dirt road from the water tank at Ventana, set in the top of a black boulder which projects 2 feet and is located at the north end of a rocky ridge, 43 feet southwest of the center line of the road, and about 6 feet above the level of the road. which

### DESCRIPTION OF BENCH MARK

Distance and direction from nearest town 2.0 m. Character of mark A C&GS Bench Mark Disk Established by Designation B 337
Nearest town Ventana C&GS CountyPima 2.0 miles west State Arizona

Stamping B 337 1961 Chief of partyD. Moncevicz

peralled description About 2.0 miles west along a graded dirt road from the water tank at Ventana, 77 feet north of the center line of the road, 1.5 feet north of a metal witness post, about 1 foot below the level of the road, and set in the top of a concrete post projecting

6 inches

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U.S. DEPARTMENT OF COAST AND GEODETIC WASHINGTON D.C.

VERTICAL CONTROL DATA

Coast and Geodetic Survey

321122 QUAD.

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PAGE NO.

32°00' to 32°30' 112°00' to 112°30' NI 12-10 AJO LONGITUDE LATITUDE

County Pima Chief of party

DESCRIPTION OF BENCH MARK

State Arizona

Designation Y 84

Distance and direction from nearest town Character of mark Standard disk Established by USC&GS

Detailed description

) County 5.6 miles northeast Leveling date

### DESCRIPTION OF BENCH MARK

Distance and direction from nearest town 1.0 mile west character of mark A C&GS Bench Mark Disk on a Copper/Ostemple A 37 1961
Established by C&GS

water tank at Ventana, 100 feet north of the center line of the road, 1.4 feet west of a metal witness post, about 1 foot below the level of the road, a disk on the top of a 5/8-inch copper coated rod that is driven to a depth of 18½ feet and is encased in a 6-inch tile which projects 4 inches. Designation A 337 Nearest town Ventana

DESCRIPTION OF BENCH MARK

Pima

Chief of party Leveling date Stamping

Nearest town Gu Komelik Distance and direction from nearest town 6.0 miles south State Character of mark Standard disk Established by USC&GS Designation W 84 Nearest town Gu Komelik Detailed description In Pima County, 6.0 miles south along the Casa Grande-Covered Wells road from the windmill at Gu Komelik, Pinal County, 300 yards north of a road curve to the southeast, and 41 feet west of the centerline of the road. A standard disk, stamped "W 84 1935" and set in the top of a concrete post.

### DESCRIPTION OF BENCH MARK

County Final
8.0 miles southwest State Arizona Distance and direction from nearest town Character of mark Standard disk Established by USC&GS Designation X 84
Nearest town Gu Komelik Detailed description Nearest town

Chief of party Leveling date

County Pima

In Pima County 8.0 miles southwest along the Casa Grande-Covered Wells road from the windmill at Gu Komelik, Final County, 7.6 miles northeast of Santa Rosa (Gu Achi), Pima County, 1/4 mile southwest of a 50-by 100-foot wire-fence enclosure, and 35 feet east of the centerline of the road, A standard disk, stamped "X 84 1935" and set in the

top of a concrete post.

County 3.6 miles north Arizona State Designation Z 84 Nearest town Santa Rosa (Gu Achi) Distance and direction from nearest town character of mark Standard disk Established by USC&GS Detailed description

Chief of party Leveling date

County Pima

DESCRIPTION OF BENCH MARK

5.6 miles northeast along the Casa Grande-Covered Wells road from the school at Santa Rosa (Gu Aohl), Pima County, 3/4 mile northeast of an Indian Village, 250 feet north of the corner of a wire fence, and 37 feet southeast of the centerline of the road. A standard disk, stamped "Y 84 1935" and set in the top of a

concrete post.

the school at Santa Rosa (Gu Achi), Pima County, 100 yards northeast of a road curve to the Southwest, 200 feet northeast of a wash, and 40 feet north of the crossing of a wash, and 40 feet north of the centerline of the road. A standard disk, stamped "Z 84 1935" and set in the top of a concrete post.

### DESCRIPTION BY BENCH MARK

Stamping **PM A 85 1936** Pina County Nearest town Sente Mose County Pims
Distance and direction from nearest town E-0 miles northwest
Character of mark Bronze Azimuth Merk Disk
Established by United States Coast & Geodetic Survey Arizona Pima State A 85 Azimuth Santa Rose Character of mark Established by

Detailed description 2.0 miles northwest along the Gasa Grande Road from the school at Santa Rosa, 0.55 mile north of the "f" junction of the new road, leading west to Ventans, at the "f" junction of a track road leading northeast, on the top of a dirt berrier which forms a "f" junction with the Gasa Grande Road, 64g feet east of a point in line with a telephone line, 35 feet west of the center line of and about 1½ feet higher than the road, and set in the top of a concrete post projecting 0.7 foot above the ground. 2.0 miles northwest along the Gasa Grande Road from the school at

### DESCRIPTION OF BENCH MARK

County Distance and direction from nearest town 1.6 miles northwest Pima State Nearest town Santa Rosa

Designation

Character of mark Bronze Disk
Established by U. S. Coast and Geodetic Survey
Detailed description 1.6 miles northwest along the Casa Grande Road from the school at
Santa Rosa, inside of the triangle formed by the Casa Grande Road and
the old Ventana Road, about 75 yards south of the junction of the new
road to Ventana, 105 feet sout east of the center line of the northwest
leg of a triangle, 554 feet west of the center line of and about 1 foot
higher than the Casa Grande Road, set in the top of a concrete post

projecting 0.2 foot above the ground.

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COMMERCE

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Coast and Geodetic Survey by the

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321122

LONGITUDE QUAD. DIAGRAM

NI 12-10 AJO 32°00' to 32°30' 112°00' to 112°30' Line 103

### DESCRIPTION OF BENCH MARK

Established by Character of mark Distance and direction Designation Nearest town United States Coast & Geodetic Survey
life description Same description to reach as B.W. A 85, 43 feet west of the cent
line of and about 1 foot higher than the road, 25.1 feet north of "A 85", and
set in the top of a concrete post projecting 0.6 foot above the ground. from nearest town A 85 E. H. 1 Bronze Disk State County 1.6 miles northwest Arizona Pima 45 feet west of the center Stamping B.M. A 85 No. 1 1936 County Pinn

Detailed description

DESCRIPTION OF BENCH MARK

Detailed description Character of mark Distance and direction Nearest town stablished by Same description to reach as B.M. A S5, 100 feet west of the f and about level with the Case Grande Road, 70 feet southeast of Bronze Reference Mark Dick United States Coast & Geodetic Survey from nearest town Santa Rosa A 85 R.M. 2 1.6 miles northwest County Pina Arizona County Stamping B.M. A 85 No. 2 1936 Pima

senter line of and about level with the Casa Grands Road, 70 feet southeast of the center line of the northwest leg of a triagnle, 48.1 feet west of 'A S5', and set in the top of a concrete post projecting 0.6 foot above the ground,

### Silver Ball Area DESCRIPTION OF BENCH MARK

Detailed description Established by Character of mark Distance and direction Nearest town road, 32 feet southwest of the southwest edge of the leves which runs parallel to the road, 2.6 feet northwest of a telephone pole, 2.0 feet southeast of a witness post, and set in a concrete post projecting 0.6 foot above the ground. Santa Ross, O.1 mile northwest of the west end of a wide curve, two poles west of a point where a levee crosses under the telephone line, in line with the telephone line, 78 feet northeast of the center line of and about level with the 0.9 mile northwest along the Casa Grande Road from the school st from nearest town Santa Ross United States Coast & Geodetic Survey Bronze Disk State 0.9 miles northwest County Pima Arizons. Stamping R 510 1951 County Pine

### Silver Bell Area

RECOVERY NOTE, BENCH MARK

DEPARTMENT OF COMMERCE U. S. Coast and Geodetic Survey Form 685 A Santa Ross State Arizona

County

Pine

V

County Pima At Sents Ross

Distance and direction from nearest town

Character of mark

Nearest town

Detailed report Present condition Established by siled report Search for, but not recovered, steps that the mark was described in may possibly have been re-built.

United States Coast & Geodetic Survey Stamping

## Silver Bell Area DESCRIPTION OF BENCH MARK

Detailed description At Sance August Wells Reed, at the northwest corner of the east of the Casa Granda Covered Wells Reed, at the northwest corner of the church building, 36.7 cemetery, 185.4 feet east of the mortheast corner of cemetery, 31.5 feet northeast of the northeast of the northeast of the northeast of the concrete base of a moden cross monument, fastened to

At Santa Ross, 0.1 mile southwest of the school, about 100 yards

from nearest town
Bronze Center Disk
United States Coast & Geodetic Survey

Stamping

Santa 1936

the top of a 1 inch bronze shaft projecting 0.9 foot above the ground.

Established by Character of mark Distance and direction

Nearest town

Santa Rosa

State At Santa Rosa

Pime

Arizona

County

Pina

DESCRIPTION OF BENCH MARK

Detailed description Same description to reach as the Station, 56.3 feet northeast of the northwest fence corner of the cemetery, 40.4 feet east of the station, fastened to the top of a 1 inch bronze shaft projecting 0.9 foot above the ground. Distance and direction from nearest town At Senta Rosa Character of mark Bronze Disk Established by Designation Nearest town Santa Rosa Santa R.M. 1 United States Coast & Geodetic Survey State Arizona Pime Stamping Santa No. 1 1936 County Pine

### Silver Ball Area DESCRIPTION OF BENCH MARK

Character of mark.  United States Coast & Geodetic Survey  Established by  Detailed description: Same description to reach as the Station, 57.6 feet south of the  Detailed description, 55.2 feet southeast of the southeast corner of the concrete base of the  monument, 21.5 feet south of the northwest fence corner of the cemetery, fastened  to the top of a 1 inch bronze shaft projecting 0.7 foot above the ground.	tion from nearest town At Santa Ross
et south o crete base cemetery, he ground.	Stamping Santa No. 2 1936
fastened	2 1936

Nearest town

Santa Rosa Santa R.M. 2

State

Arizona

County

PIME

At Santa Ross

Pima

### DESCRIPTION OF BENCH MARK Silver Bell Area

Détailed description Sente Rose, s telephone li east of the of a telepho concrete pos	Distance and direction from nearest town Character of mark Exonze Disk Established by United States	Designation Nearest town
& B C D P	n from nearest town 0.9 mile south Bronze Disk United States Coast & Geodetic Survey	Q 310 Santa Rosa
along the concrth of the ile north of about 4 for the foot above	Coast & Geodetic	State Arizon
crossing of the Store & the Store & feet lower th witness pos the ground.	south letic Survey	Arizona Pima
Road from a levee, c Service S an the roa st, and set	Stamping	County Pime
the school in line wit tation, 103 d, 3.7 feet in the top	Stamping <b>Q 310 1952</b>	Pime
in a south	Ñ	

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Coast and Geodetic Survey SEA-LEVEL DATUM OF 1929

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32°00' to 32°30' 112°00' to 112°30' NI 12-10 AJO LONGITUDE

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> Silver Bell Area U.S. DEPARTMENT OF COMMERCE. COAST AND GEODETIC SURVEY WASHINGTON D.C. DEPARTMENT OF COMMERCE U. S. Coast and Grounic Survey Form 685 A

County RECOVERY NOTE, BENCH MARK

Art zona County Santa Rosa

Nearest town Designation

Stamping C 85 1935 Distance and direction from nearest town 2.0 miles south
Character of mark Bronze Disk
Established by United States Coast & Geodetic Surrey

Detailed report 2.0 miles south along the Govered Wells Road from the school at Sante Roses, at a point where a dreinage ditch which leads northeast joins the road, between the old and new roads, 0.7 mile south of the Store & Service Station at Santa Rose, 195 feet east of the center line of and about 2 feet lower than the new road, 139.0 feet west of a telephone pole, 115.0 feet east of the seat right-of-may fence, 25 feet west of the center line of and about level with the old road, and set in the top of a concrete postprojecting 0.8 foot above the ground. Good Established by Present condition

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

RECOVERY NOTE, BENCH MARK State Arizona Nearest town Govered Wells
Nearest town
Distance and direction from nearest town
Character of mark Standard disk

Designation F 85

Apr. 1962

County Pima Chief of Party Recovery Date A Stamping County 5.0 miles northeast

Present condition NOT RECOVERED (USGS)

USC&GS

Established by

Detailed report Description is inadequate due to new road construction. Additional searching is recommended.

5.0 miles northeast along the Casa Grande-Covered Wells road from the graveyard at Covered Wells, Pima County, midway between two washes which cross the road 200 feet apart, 100 yards northeast of a road curve to the west, 110 feet north of a telephone line, and 36 feet north of the centerline of the road. A standardisk, stamped "F 85 1935" and set in the top of a concrete post,

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

Chief of Party Recovery Date Apr. 1962 Stamping County Pima RECOVERY NOTE, BENCH MARK State Arizona

County Designation G 85
Covered Wells

Distance and direction from nearest town 3.0 miles northeast Character of mark Standard disk

Chief of Party Recovery Date April 1962 Stamping "D 85 1935"

Distance and direction from nearest town 3.9 miles southwest

Character of mark Standard disk Established by USC&GS Present condition DESTROYED (USGS)

Detailed report

Nearest town Santa Rosa (Gu Achl County Distance and direction from

County Pima

RECOVERY NOTE, BENCH MARK

The mark was destroyed during road construction,

Present condition NOT RECOVERED (USGS)
Detailed report The mark was reported destroyed by county highway-man,

3.0 miles northeast along the Casa Grande-Covered Wells road from the graveyard at Covered Wells, Pima County, 24 feet east of the centerline of the road, and 20 feet west of a telephone line. A standard disk, stamped "G 84 1935" and set in the top of a concrete post.

NOTE -- The disk is erroneously stamped "G 84" instead of

### County Pima DESCRIPTION OF BENCH MARK

Designation E 85
News. Santa Rosa (Gu Achi) county
Distance and direction from nearest town 5.8 miles southwest
Character of mark Standard disk
USC&GS

Chief of party Leveling date

Stamping

5.8 miles southwest along the Casa Grande-Covered Wells road from the school at Santa Rosa (Gu Achi), Fima County, 7.0 miles northeast of the graveyard at Covered Wells, 42 feet south of the contraction of the road, 40 feet north of a telephone line, and 6 feet northeast of a cactus. A standard disk, stamped "E 85 1935" and set in the top of a concrete post.

# DESCRIPTION OF BENCH MARK

County Pima Chief of party Leveling date Nearest .... Covered Wells county
Distance and direction from nearest town 1.1 miles northeast
Character of mark Standard disk
Established by USC&GS Arizona State Detailed description Designation H 85

1.1 miles northeast along the Casa Grande-Covered Wells road from the graveyard at Covered Wells, Pima County, 300 feet west of the crossing of a steep wash, IIO feet north of a telephone line, 4C feet saith of a large cactus, and 27 feet north of the centerline of the road. A standard disk, stamped "H 85 1935" and set in the top of a concrete post.

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> Coast and Geodetic Survey SEA-LEVEL DATUM OF 1929 by the

ARIZ. LONGITUDE LATITUDE 321122 32°00' to 32°30' 112°00' to 112°30' NI 12-10 AJO

DIAGRAM

Line 104

### DESCRIPTION OF BENCH MARK

Description About 6.6 miles east along State Highway 86 from the	Designation Q 337  Rearest town Tracy Distance and direction from nearest town 7.5 miles east Character of mark A C&GS Eench Mark Disk
C&GS	Q 337 Tracy irection
About	n from
6.6	nearest Bench
miles	town 7
e st	State County 5 mil Disk
along	Arizo Pima es eas
State	st )na
Highway	County Pima Chief of party D. Monc Leveling date October Stamping Q 337 1961
86	f pa g da
from	rty D.
the	Monc tober 1961

r 1961

highway department maintenance camp at Tracy, an indian village; thence 0.9 mile south along a graveled road; or about 0.35 mile southeast along a dirt road from the Mission Church at Pisinimo, an indian village and thence 10.25 miles north along a graveled road, set in the top of a bouler which projects 6 inches, at the foot of a mountain and on the west side, 60 feet east of the center line of the road, 170 feet southeast and across the graveled road from a telephone pole, and about level with the road.

### Quijotoa-Vamori Area, Arizona DESCRIPTION OF BENCH MARK

Character of	Distance and d	Nearest town	Designation	
mark A C&GS Bench Mark	istance and direction from nearest town 7.7 min	Listatuo		R 227
LSK	TITLES TIOT OF	מחווי ב בשב	Dima	State Arizona

Chief of party D. Moncevicz Leveling date October 1961 Stamping H 337 1961

Mission Church at Pisinimo, an indian village; thence 9.15 miles north along a graveled road; or about 6.6 miles east along State Highway 86 along a graveled road; or about 6.6 miles east along State Highway 86 from the highway department maintenance camp at Tracy, an indian village; thence 2.0 miles south along a graveled road; 69 feet west of the center line of the road, 37 feet northeast of a telephone pole braced with a guy wire, 1.9 feet west of a metal witness post, about level with the road, and set in the top of a concrete post projecting 7 inches.

### Quijotoa-Vamori Area, Arizona DESCRIPTION OF BENCH MARK

esignation S 33 learest town Pisi listance and direct character of mark
eesignation S 337 learest town Pisinimo listance and direction from nearest town tharacter of mark A C&GS Bench Ma
from ne
Bench N
ark 5
string state Arizona county Pima county Pima ection from nearest town 8,5 miles north A C&GS Bench Mark Disk

chief of party D. Moncevicz Leveling date October 1961 Stamping S 337 1961

Detailed description About 0.35 mile southeast along a dirt road from the Mission Church at Pisinimo, an indian village; thence 8.15 miles north along a graveled road; 52 feet east of the center line of the road, 153 feet northeast and across the road from a telephone pole, 1.8 feet east of a metal witness post, about level with the road, and set in the top of a concrete post projecting 4 inches.

### DESCRIPTION OF BENCH MARK Quijotoa-Vamori Area, Arizona

(H)	C	Đ	z	D
Established by C&GS	haracter	istance	earest t	esignati
Da D	of	and	UMO	on
by Cd	mark	directi	Pisir	T 337
FA FA	A	on	Tin	7
	C&GS	from	ŏ	89
	S Bench	nearest to		Designation T 337 state Arizona
	Mark	7°		
	Disk	5 mile	County F	State A
		s nor	1ma	rizon
		th		2
				)
	Stamping T	Leveling date	Chief of party	CountyPima
	н	date	party	ma

October 1961 337

Detailed description About 0.35 mile southeast along a dirt road from the Mission Church at Pisinimo, an indian village; thence 7.15 miles north along. a graveled road; 95 feet west of the center line of the road, 103 feet southeast of a telephone pole, 2.0 feet west of a metal witness post, about level with the road, and set in the top of a concrete post projecting 7 Establ inches.

### Quijotoa-Vamori Area, Arizona DESCRIPTION OF BENCH MARK

Stampin	K Disk	Mark	Bench	C&GS	C&G	mag	r of	Character of mark A C&
Levelin	Distance and direction from nearest town 6.4 miles north	town (	nearest	from	ection	dir	and	istance
.Chi	County Pima			mo	sini	Pi	town	learest
County	State Arizona				337	d	ion	esignat

ing date October ing U 337 1961 of party D. Moncevicz ing date October 1961

Detailed description About 0.35 mile southeast along a dirt road from the Mission Church at Pisinimo, an indian village; thence 6.05 miles north along a graveled road; 61 feet west of the center line of the road, 9 feet south of a telephone pole; 1.6 feet west of a metal witness post; about level with the road, and set in the top of a concrete post projecting 8 inches.

### DESCRIPTION OF BENCH MARK Quijotoa-Vamori Area, Arizona

Nearest town Pisinimo county Pima chief of party D. Moncevicz Distance and direction from nearest town 5.3 miles north coategre 468d october 1961 character of mask A C&GS Bench Mark Disk on a Copper/ Stamping V 337 1961 Established by C&GS Designation V 337 Chief of party D. Moncevicz County Pima

Detailed description About 0.35 mile southeast along a dirt road from the Mission Church at Pisinimo, an indian village; thence 4.95 miles north along a graveled road; 80 feet west of the center line of the road, 1.4 feet west of a metal witness post, about level with the road, and on a 5/8-inch copper coated rod that is driven to a depth of 16-feet and is encased in a 6-inch tile which projects 6 inches.

### Quijotoa-Vamori Area, Arizona DESCRIPTION OF BENCH MARK

Designation W 337 Nearest town Pisinimo Distance and direction from nearest town 4.3 miles north Character of mark A C&GS Bench Mark Disk
337 sinimo ection from no k A C&GS 1
earest town Bench Ma
State Ar. County Pit 4.3 miles
izona ma north
County Pim: Chief of par Leveling dat Stamping
county Pima Chief of party D. Monce Leveling date October Stamping W 337 1961

Detailed description About 0.35 mile southeast along a dirt road from the Mission Church at Pisinimo, an Indian village; thence 3.95 miles north along a Graveled road; 62 feet west of the center line of the road, 160 feet northeast of a telephone pole, 1.8 feet west of a metal witness post, about level with the road, and set in the top of a concrete post projecting 2 inches.

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10 PAGE NO.

32°00' to 32°30' NI 12-10 AJO LATITUDE DIAGRAM

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### Quijotoa-Vamori Area, Arizona DESCRIPTION OF BENCH MARK

Leveling date October 1961 Stamping X 337 1961 Chief of party D. Moncevicz County Pima State Arizona County Pima Designation X 337 Nearest town Pisinimo

Distance and direction from nearest town 3.3 milles north Character of mark A C&GS Bench Mark Disk C&GS Established by

Stamping

Detailed description About 0.35 mile southeast along a dirt road from the Mission Church at Pisinimo, an indian village; thence 2.95 miles north along a graveled road; 139 feet northwest of the center of the junction of the graveled road a road leading southwest, 98 feet west of the center line of the road, 27½ feet south of a telephone pole, 1.5 feet west of a metal witness post, about level with the road, and set in the top of a concrete post projecting 6 inches.

### Quijotoa-Vamori Area, Arizona DESCRIPTION OF BENCH MARK

Designation Y 337 state Arizona
Nearest town Pishinimo county Pina
Distance and direction from nearest town 2.3 miles north
Character of math. A C&GS Bench Mark Disk State Arizona County Pima

chief of party D. Moncevicz Leveling date October 1961 stamping Y 337 1961

Detailshed by C&GS Cart 0.35 miles southeast along a dirt road from the Mission Church at Plishing, an indian village; thence 1.95 miles north along a graveled road; 86 feet west of the center line of the road, 14 feet south of a telephone pole, 1.6 feet west of a metal witness post, about level with the road, and set in the top of a concrete post projecting 6 inches.

### Quijotoa-Vamori Area, Arizona DESCRIPTION OF BENCH MARK

chief of party D. Moncevicz Leveling date October 1961 Stamping Z 337 1961 County Pima Distance and direction from nearest town 1.3 miles northeast Cheracter of mark A C&GS Bench Mark Disk State Arizona Designation Z 337 Nearest town Pisinimo

Detailed description About 0.35 mile southeast along a dirt road from the Mission Church at Pisinimo, an indian village; thence 0.95 mile north along a graveled road; 79 feet east of the center line of the road; 134 feet southeast of and across the road from a telephone pole, 1.6 feet east of a metal witness post, about level with the road, and set in the top of a concrete post projecting 6 inches.

### Outjotoa-Vamori Area, Arizona DESCRIPTION OF BENCH MARK

county first D. Moncevicz chief of party D. Moncevicz Leveling date October 1961 stamping B 339 1961 County Pima Designation B 339 State Afizona Nearest form, Pishnimo County Pima Distance and direction from nearest town 0.35 mile southeast Character of math A C&GS Bench Mark Disk Established by

Detailed description About 0.35 mile southeast along a dirt road from the Mission Church at Pisinimo, an indian village; 61 feet northeast of the center of the junction of the dirt road and a graveled road, 49 feet ests of the center inne of the graveled road, 49 feet northeast of the dirt road, 1.6 feet northeast of a metal witness post, about level with the road, and set in the top of a concrete post projecting 4 inches.

NOTE: This mark is 0.5 mile northwest of a 4x4-inch white wooden reference post which projects 16 feet and is numbered 59.

### State Arizona County Pima Distance and direction from nearest town at Pisinimo Character of mark A C&GS Reference Mark Disk Established by C&GS Designation Pisinemo R.M. 1 Nearest town Pisinimo

Juljotoa-Vamori Area, Arizona DESCRIPTION OF BENCH MARK

Leveling date October 1961 Stamping PISINEMO NO 1 1935 county Pima Chief of party D. Moncevicz

Detailed description At Pisinimo, an indian village; 66.9 feet north of Pisinemo 1935, 50.8 feet northwest of the northwest corner of the Mission Church Rectory, 36 feet northwest of the northwest corner of the fence around the rectory, 1.1 feet west of a metal witness post, and set in the top of a concrete post projecting 4 inches.

### QuijotoakVamori Area, Arizona DESCRIPTION OF BENCH MARK

county Pima Chief of party D. Moncevicz October 1961 Stamping PISINEMO 1935 Leveling date Character of mark A C&GS Triangulation Station Disk State Arizona County Pima Distance and direction from nearest town at Pisinimo Pisinemo 1935 Pisinimo C&GS Established by Designation

Detailed description At Pisinimo, an indian village; 251 feet northwest of the south-west corner of the Mission Church, 50.0 feet northwest of the south-west corner of the mission Church Rectory, 42.6 feet southwest of the northwest corner of the rectory, 17 feet west of a fence around the rectory, 14 feet north of an east-west fence line, 66.9 feet south of Pisinemo R.M. 1, about level with the ground, and set in the top of a concrete post which is flush with the ground.

### Quijotoa-Vamori Area, Arizona DESCRIPTION OF BENCH MARK

chief of party D. Moncevicz Leveling date October 1961 stamping PISINEMO NO 3 1935 State Arizona Nearest town Pisinimo county Pima Distance and direction from nearest town at Pisinimo Character of mark A C&GS Reference Mark Disk Designation Pisinemo RM 3 Nearest town Pisinimo

Pisinemo RM 1, 227 feet east of a concrete and pole loading chute at a stock pen, 120 feet southeast of the center line of a trail road leading northeast, and set in the top of a concrete post projecting 6 inches. 787 feet northeast of Detailed description At Pisinimo, an indian village; Established by C&GS

### Quijotoa-Vamori Area, Arizona DESCRIPTION OF BENCH MARK

Nearest town Pisinimo county Pima chief of partyD. Moncevicz Distance and direction from nearest town 1.35 miles southeast OdgeHuBodde October 1961 character of mark A C&GS Bench Mark Disk on a Copper/Stamping A 339 1961 County Pima State Arizona Designation A 339 Nearest town Pisinimo Character of mark A CO

Detailed description About 0.35 mile southeast along a dirt road from the Mission Church at Pisinimo, an indian village; thence 1.0 mile southeast along a trail road; 60 feet southwest of the center line of the trail road, 1.8 feet southwest of a metal witness post, about level with the road, and on a 5/8-inch copper coated rod that is driven to a depth of 16 feet and is encased in a 6-inch tile which projects 3

NOTE: This mark is 0.35 miles southeast of a 4x4-inch white wooden reference post which projects 16 feet and is numbered 59.

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# VERTICAL CONTROL DATA

Coast and Geodetic Survey

PAGE NO. 11

LATITUDE ARIZ. DIAGRAM 321122 32°00' to 32°30' 112°00' to 112°30' NI 12-10 AJO

Quijotoa-Vamori Area, Arizona DESCRIPTION OF BENCH MARK

Distance and direction from mearest town 2.35 miles southeast character of mark A C&GS Bench Mark Disk Established by C&GS Designation C 339
Nearest town Pisinimo County Pima State Arizona County Pime chief of partyD. Moncevicz Leveling date October 1961 Stamping C 339 1961

Detailed description About 0.35 mile southeast along a dirt road from the Mission Church at Pisinimo, an indian village; thence 2.0 miles southeast along a trail road; about 150 feet southeast of a wash, \(\frac{1}{2}\) feet northeast of the center line of the trail road, 1.6 feet northwest of a metal witness post, about level with the road, and set in the top of a concrete post projecting 7 inches.

NOTE: This mark is 1.35 miles southeast of a  $4x^4$ -inch white wooden reference post which projects 16 feet and is numbered 59.

LINE 105

A 311 DESCRIPTION OF BENCH MARK State Arizona County Pima

Distance and direction from nearest town
Character of mark
Bronze Disk Santa Rosa County Fime 2.35 miles east Pima

Nearest town

A 311 1952

Nearest town
Distance and direction

from nearest town Santa Rosa A 90

3,55 miles northwest Pims. Artzona

A 90 1935

Detailed description 2.55 miles sest along a dim track road from the school at Santa Rosa, 0.2 mile northwest of an adobe shed, at a point where the road crosses the south end of a clearing, about 40 yards northwest of the southeast edge of a clearing, 26 feet south of a center line of and about level with the road, 2.9 feet southeast of a wit-Established by Character of mark ness post, and set in a concrete post projecting 0.7 foot. United States Coast & Geodetic Survey Stamping

## DESCRIPTION OF BENCH MARK

Nearest town  Distance and direction from nearest town  Character of mark  Established by  Detailed description  0,2 mile east of a 75 feet set of the graded road leadily  formed by the divided portion  one of 3 saquros, 31 feet nor  of the graded road, 25 feet set north of the center  a witness post, and about le	Designation
Santa Rosa from nearest town Bromze Disk United States 1.35 miles easts 1.35 miles easts divided portion divided portion rosa, 31 feet ser of the center 1: t, and about leve	J 91
rest town access town 1.35 miles east  Stamping J 91 1935  Browne Disk  United States Coast & Geodetic Survey  United States Coast & Geodetic Survey  United States Coast & Geodetic Survey  Sield description 1.35 miles east along a dim track road from the school at Santa Ross, alled east of a 75 feet square feace around a range study plot, at the "Y" junction of a graded road leading southeast, inside of the west end of an oblong triangly come of 3 saquros, 31 feet northeast of and across the south leg from the center line of the graded road, 25 feet south of the seater line of the north leg of the triangle, 2.6 feet north of the center line of the south leg of the triangle, and about level with the roads, and set in a concrete post projecting a witness post, and about level with the roads, and set in a concrete post projecting	State Arizona
Stamping vey Stamping road from the scho range study plot, of the west end on the south leg from the south leg from the triangle, of the triangle, and set in a concre	County
rest town  Santa Rosa County  France of mark  Indied States Coast & Geodetic Survey  Stamping  J 91 1935  Indied description  1.35 miles east United States Coast & Geodetic Survey  Siled description  1.35 miles east along a dim track road from the school at Santa Rosa, bished by  1.35 miles east along a dim track road from the school at Santa Rosa, siled description  1.35 miles east along a dim track road from the school at Santa Rosa, siled description  1.35 miles east along a dim track road from the school at Santa Rosa, siled description  1.35 miles east along a dim track road from the school at Santa Rosa, siled description  1.35 miles east  1.35 miles east  1.35 miles east  1.35 miles east  2.5 miles  2.5 mile	Pima

0.9 foot.

# DESCRIPTION OF BENCH MARK

Line 104 Line 105

Detailed description O. about 125 yards nort 100 yards northeast 12 feet north of the lone 8 inch ironwood projecting O.6 foot.	Nearest town Distance and direction Character of mark	Designation
Detailed description 0.45 mile esset along a dim track road from the school at Santa Ross, about 125 yards northwest of the northeest corner of a fence around a reservoir, about 100 yards northeest of the northeest end of a leves which extends from the reservoir, 12 feet north of the center line of and about level with the road, 9.3 feet east of a lone 8 inch ironwood tree, 2.9 feet west of a witness post, and set in a concrete post projecting 0.6 foot.	Nearest town Sents Rose County Pime Distance and direction from nearest town 0.45 miles east Character of mark Bronze Disk	Z 310 St
United States Coast & Geodetic Survey 0.45 mile east slong a dim track road rthwest of the northeast corner of a ; the of the northwest end of a levee which the senter line of and about level with ood tree, 2.9 feet west of a witness put.	County Pime 0.45 miles east	State Arizons
from the school ence around a h extends from the road, 9.3 st, and set in	Stamping	County
reservoir, about the reservoir, feet east of a a concrete post	Z 310 1952	Pime

### DESCRIPTION OF BENCH MARK

Established by Detailed description at Santa Ross north end of mine, in the line of and st pole, 65 fee south edge o:	Nearest town Distance and direction from nearest town Character of mark Bronze Disk	Designation
United States of 1.6 miles northy 1, thence 0.85 mil 8 pouth end of a sl about 10 feet high 1 lower than the h 1 a ledge, and set	Santa Rosa n from nearest town Bronze Disk	8 210
United Exacts Coast & requests ourself build and from the school like description 1.6 miles northwest along a graded road, 0.5 mile west of the at Santa Rosa, thence 0.65 mile west along a graded road, 0.5 mile west of the north end of a levee, on the south slope of a rocky fill with an abandoned mine, in the south end of a sloping rook ledge, 193 feet north of the center line of and about 10 feet higher than the road, 116 feet northeast of a telephone pole, 65 feet lower than the highest part of a ledge, 0.5 foot north of the south edge of a ledge, and set in a concrete poet projecting 15 feet above the	County Fins 2.45 miles northwest	State Arizona (
ande Road from to produce to the product of the feet north of to feet northbast of the f	Stamping <b>S 310</b> 1951	County Pina
west of the andoned he center of a telephone h of the tabove the	1951	ED.

### DESCRIPTION OF BENCH MARK

State

County

PLES

ground.

foot above the ground.	2.3 feet north of a witness post, and set in a concrete post projecting 0.5	barrier, 27 feet south of the center line of and about level with the road,	65 feet south of a telephone pole, 57 feet north of the center line of a dirt	of a point where a northwest-southeast dirt barrier junctions with the road,	at Santa Rosa, thence, 1.95 mile west along a graded road, about 200 yards east	Detailed description 1.6 miles northwest along the Casa Grande Moad from the school	Character of mark Bronze Disk Stamping A 90 1935

### Silver Ball Area DESCRIPTION OF BENCH MARK

Designation
T 310
State Arizona
County
Pime

slight curve in the road, about in line with a telephone line, 57% feet morthmest of the point where a drainage ditch east of the junction with the road, 55 feet north of the center line of and about level with the road, 50 feet west of a telephone pole, 20 feet east of a witness poet, and set in the top of a concrete post projecting 0.4 foot above the ground.

### VERTICAL CONTROL DATA by the

Coast and Geodetic Survey SEA-LEVEL DATUM OF 1929

U.S. DEPARTMENT OF CONMERCE COAST AND GEODETIC SURVEY WASHINGTON D.C.

AND PRINTED BY:

PUBLISHED

## S11ver Bell Area DESCRIPTION OF BENCH MARK

Stamping **B 90 1935** Pins County Distance and direction from nearest town 5.5 miles northwest Character of mark Bronze Disk Character of mark United States Coast & Geodetic Survey Established by County ..... 5.5 miles northwest Arizona State Sente Rosa

Established by United States Coast & vectors, while the school Detailed description 1.6 miles northWestStatong the Oass Grande Road from the school at Sante Rees, theme 5.9 miles west along a graded road, 0.2 mile west of a curve in the road, 39 feet north of the center line of and about level with the road, 15.5 feet south of a point in line with a telephone, line, 2.4 feet west of a witness post, and set in the top of a concrete post projecting 0.5 foot above the ground.

### Silver Bell Area DESCRIPTION OF BENCH MARK

Distance and direction from nearest town 6.5 miles northwest

Character of mark Browns Nisk

Established by United Steeps Coast & Geodetic Survey

Distablished by Description 1.6 miles northwest along the Gasa Grande Road from the school PAME County County Pima 6.5 miles northwest Arizona State Santa Rosa Designation Nearest town

Established by
United Stetes Coast & Geodetic Survey
Detailed description Lef miles morthwest along the Geas Grande Road from the school
at Santa Hose, thence 4.9 miles west enlong a graded road 0.35 mile west of a
curve in the road, at a point where a northeast-continest drainage ditch crosses
under a telephone line, in line with the telephone line, 56 feet north of the
center line of and about level with the road, 6.7 feet north of the center line of
the drainage ditch, 3.5 feet east of a telephone pole, 2.5 feet wast of a mitmess post, and set in the top of a concrete post projecting 0.5 foot above the
ground.

### Silver Bell Area DESCRIPTION OF BENCH MARK

Character of mark Dromse Disk
Established by
United States Coast & Geodetic Survey
Cataloca process, 1.6 miles northwest along the Ozec Grande Road from the school
betiled description
at Sanke Roas, thence 5.85 miles west along a graded road, 0.5 mile wast of a
mide curve in the road, 0.1 mile west of a point where a drainege ditch
crosses under a telephone line, 40 feet south of the center line of a small
drainage ditch, 35 feet northeast of the center line of and about level with
the road, 17 feet south of a point in with a telephone line, 2.6 feet west
of a witness post, and set in the top of a concrete post projecting 0.4 foot Stamping C 90 1935 Pima County Pina 7.45 miles northwest Arizona PIRE State Distance and direction from nearest town C 90 Santa Rosa above the ground. Nearest town

### Pins DESCRIPTION OF BENCH MARK Silver Bell Area

County

Arizona

State

Þ

Nearest town  Nearest town  Nearest town  Nearest town  Distance and direction from nearest town  Distance and direction from nearest town  Established by  Established by  Established by  Established by  Established by  Assart Ross, fabruse 6.55 miles northwest along the Gasa Grande Road from the school  Established by  Established	
Pins les not control of the control	
Santa Rosa  County Pime  (from nearcettumn 8.55 miles northwest  Bronze Disk  Unived States Coast & Geodetic Surrey  1.6 miles northwest along the Gasa Gra  thance 6.55 miles west along a grade  e fance around a Range Study Piot, about  at the junction of a track road lesd  one line, 71 feet northeest of the cen  center line of and about level with the  e, 3.0 feet est of a witness poet, an  ejecting 0.3 foot above the ground.	
Ross Disk Stetes Stetes 6.95 around 9 Junct 8, 71 1	
Santa Rosa from server to Bronce Disk United State 1.6 miles no p. thence 6.99 e fence aroun one line, 71 centre line one line, 71 centre line one line, 71 centre line one line, 72 centre line one line, 73 centre line one line, 74 centre line one line, 74 centre line one line, 64 centre line, 74 centre line, 74 centre line, 75 centre line, 65 centre line, 75 centre line,	
Sante Rosa County Pime Sante Rosa County Pime Distance and direction from states turn 8.55 miles northwee Character of mark Bronzers turn 8.55 miles northwee Established by United States Coast & Geodetic Surveiled description 1.6 miles northwest along the Gasa petaled description 1.6 miles northwest along the Gasa at Sante Rosa, thence 6.55 miles west along a grass for the square, at the junction of a track road is with a telephone line, 71 feet northeest of the north of the centeriline of sma about level with the phone pole, 3.0 feet east of a withous post, ersemptating 0.5 foot above the ground.	

321122 LATITUDE QUAD.

32°00' to 32°30' 112°00' to 112°30' NI 12-10 AJO DIAGRAM

### Silver Bell Area DESCRIPTION OF BENCH MARK

	4	ťЪ	ter
		nor	d een
	935	Ansatz Asset Rose, thence 7.35 miles northwest along the Casa Grande Road from the school at State Rose, thence 0.4.35 miles west along a graded road, thence 0.4 mile north at State Rose, and a such the sect of the water tent at Ventens. Should	along interactions and make solutions of a most, and solutions of the crossing of a deep sandy wash, at a magnific covered flet, about 65 yards south of a rock covered clearing, 11 feet east of the center line of and about level with the rock of 2.7 feet south of a witness post, and
g	D 90 1935	the of	Dog
Pina	A	rom t	juit ess
ty	ping.	then then	With
County	Stamping	Ed,	aiong a treat rosu, s. mires bouncesto to me water and along a boot of the cresting of a deep sandy wash, et me filet, about 65 yards south of a rock covered clearing, 11 fee file of and about level with the rock, 27 feet south of a will me the manual month of a will be seen as a feet of the sand about a water the ground.
		ande d ro	a ga
	rest	rade rade	was serti
Arizona	rth	Cass B 63	cl cl
Ariz Pine	from nearest town 9.35 miles northwest Bronze Disk United States Goast & Geodetic Survey	the one	erec
	mile Geod	t al	4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
State	35 35 35 35	t al	rock
in O	õ	iles	the the
	own Fee	SS B	h of
OSE	from nearest to Bronze Disk United State	2 2 2	sout sout
D 90 Senta Rose	n near	mil	rds rds lev
D 90 Sent	Bro	1.6	th o
	ction	00 88 94 94 94 94 94 94 94 94 94 94 94 94 94	nor to 6
-	dire	criptic	rds abou
tion	e and er of	Ser	et ye
Designation Nearest town	Distance and direction from nearest town Character of mark Bronze Disk Estates	Detailed description  at Sente Rose	38448
N Pe	2007	De L	

### Silver Bell Area DESCRIPTION OF BENCH MARK

County Pina	Stamping W 310 1952	3.75 miles east along a track road from the water tank at Ventans, les south along a track road, about 65 yards north of the crossing	Ir side, at a rock covered	er than the road, 2.3 feet	rete post projecting U.Y
State Arizona County Pima 8.4 miles southeast	8	t along a track road from	Palo Verde trees on eithe	of and about 1 foot high	set in the top or a cond
Designation Waltena Nearest town Distance and direction from nearest fown	Character of mark Bronze Disk	ption 65 m3	of a large gravel wash with Palo Verde trees on either side, at a rock covered clearing on top of a alight ridge. 37 feet north of a large from wood tree. 29	feet west of the center line of and about 1 foot higher than the road, 2.3 feet	south of a writing post, and set in the top of a concrete post projecting U.? foot above the ground.

### Silver Bell Area DESCRIPTION OF BENCH MARK

County Pime			Stamping K 90 1930		3.75 miles esst along a track road from the water tank at Ventana,	thence 3.7 miles south along a track road, at the center of a barren rocky flat,	Gignt Saguaro, 20 feet east	, 2.5 feet south of a witness	post, and set in the top of a concrete post projecting 0.8 foot above the ground.
State Arizona	County Pima	7.45 miles southeast		United States Coast & Geodetic Survey	along a track road fr	a track road, at the c	the road from a lone (	ut level with the road	concrete post project
E 90	Ventena	n from nearest town	Bronze Disk	United States C	3.75 miles esst	iles south along	theast and across	r line of and abo	t in the top of a
Designation	Wearest town	Distance and direction from nearest town	Character of mark	Established by	Detailed description	thence 3.7 m	117 feet nor	of the cente.	post, and sei

### S11ver Bell Area DESCRIPTION OF BENCH MARK

Pine	X 510 1952	touk of Wand
County	Stamping	the meter
Arizona Pina	les southeast eodetic Survey	treate many denim
State	6.4 mi	a ono la
X 310 Ventana	from nearest town Bronze Disk United States	3.75 miles appl
Designation Nearest town	Distance and direction from nearest town 6.4 miles southeast Character of mark Bronze Disk Established by United States Goest & Geodetic Survey	Date land charriet on

led describion 3.75 miles east along a track road from the water tank at Ventana, thence 2.65 miles south along a track road, about 0.85 mile south of a gate at a fonce line, about 75 yards southwest of a large wash with Palo Verde tree on either side, about 50 yards northeast of a point where the road crosses a wash between two ridges, at a small flat covered with mesquite, 40 feet east of the center line of and about level with the road, 2.5 feet south of a witness post.

U.S. DEPARTMENT OF COMMER COAST AND GEODETIC SURVEY

COMMERCE

PUBLISHED AND PRINTED BY:

WASHINGTON D.C

by the

ARIZ 321122

LONGITUDE NI 12-10 AJO 32°00' to 32°30' 112°00' to 112°30'

Line 105

DIAGRAM

### DESCRIPTION OF BENCH MARK

Established by Distance and direction from nearest town Character of mark Nearest town F 90 Ventana Bronze Disk 5.5 miles east Pine ATIZONS Stamping County Pina

United States Coast & Geodetic Survey

F 90 1955

Detailed description yied description 3.75 miles east along a track road from the water tank at Ventaus, thence 1.75 miles south along a track road, about 150 yards north of the crossing of a wire gate, between the road and a small gravel wash, 38 feet southeast and feet north of a witness post, and set in the top of a concrete post projecting across the road from a Giant Saguaro, 24g feet northwest of the center line of a mash, 17 feet east of the center line of and about level with the road, 2.5 0.8 foot above the ground.

> Detailed description Established by Character of mark

iled description Same description to reach as B\_M\_ M 311, 112.1 feet west of B\_M\_ M 311, 36 feet south of the center of the road junction and the center line of the main road, about level with the roads, and set in the top of a

United States Geological Survey

concrete post projecting 0.4 foot above the ground.

Distance and direction from nearest town

2.7 miles east

Stamping

Iron Bolt

M 311 BM (DSGS)

State

County

Pima

Arizona

County

Pime

DESCRIPTION OF BENCH MARK

Nearest town

## Silver Bell Area DESCRIPTION OF BENCH MARK

Character of mark Distance and direction from nearest town Nearest town Ventana Bronze Disk 4.45 miles east Pine Ari zona Stamping **I 511 1958** County

Detailed description Established by thence 0.7 miles south along a track road from the water tank at Ventana, thence 0.7 miles south along a track road, 0.5 mile north of the crossing of a wire gate in the crotch of a "Y" junction of a track road leading north about 100 yards south of an abandoned mine, 36 feet west of the center line of a track 100 yards south of an abandoned mine, 36 feet west of the center line of a track road, 25 feet northeast of the center line of and about 1½ feet lower than the main road, 4.2 feet south of a witness post, and set in the top of a concrete main road, 4.2 feet south of a witness post, and set in the top of a concrete post projecting 0.7 foot above the ground. United States Coast & Geodetic Survey

### DESCRIPTION OF BENCH MARK Silver Bell Area

Detailed description Established by Character of mark Distance and direction from nearest town 'Y' junction of a track road leading east, 17 fest west of the center line of and about level with the main road and the junction of a track road leading east, 1.7 feet east of a witness post, and set in the top of a concrete post projecting iled description 3.75 miles east along a track road from the water tank at Ventana, about & mile due east of a high rocky isolated peak, 72 feet south of the 0.2 foot above the ground. erossing of a wash and the "Y" junction of a track road leading north, at the 06 Đ United States Coast & Geodetic Survey Bronze Disk 3.75 miles east County Pima Arizona Stamping G 90 1935 County Pina

### DESCRIPTION OF BENCH MARK

Established by Distance and direction Designation Nearest town matter of the track road, 24 feet east of a witness poet, and set in the easter line of the track road from the water tank at Vontana, all description 2.7 miles east along a track road from the water tank at Vontana, line of the T junction of a track road leading east, 11.2.1 feet east of crothed of the T junction of a fall Verde tree, 30 feet northeast of the M 311 R.M.(USGS), 66 feet south of a fall Verde tree, 30 feet south of the easter line of and about 2 feet higher than the main road, 25 feet south of the center line of the track road, 24 feet east of a witness poet, and set in the top of a concrete post projecting 0.7 foot above the ground. Wentana Bronze Disk 2.7 miles cast State Pina Artzona Stamping N 511 1952 Pina

## DESCRIPTION OF BENCH MARK

Distance and direction from nearest town
Character of mark

Bronze Disk Established by Nearest town Ventana United States Coast & Geodetic Survey State 1.6 miles east Pine Arizona Stamping H 90 1935 County Pima

Detailed description 1.6 miles east along a track read from the water tank at Ventana, 0.25 mile east of the south end of a leves, about 50 yards northeast of a small knoll, on a might eastwest rise between the former road and a small sandy wash, 108 feet north of the center line of and about 3 feet lower than the road, 16 feet north of the center line of the former road, 11g feet south of the center line of the wash, 2.2 feet east of a witness post, and set in the top of a concrete post projecting 1.0 feet above the ground.

# COAST AND GEODETIC SURVEY

(1-8-58)

# RECOVERY NOTE, BENCH MARK

Established by C&GS Distance and direction from nearest town 0.6 mile east Character of mark A C&GS Bench Mark Disk Designation N 311 Nearest town Ventana County Pima State Arizona

Chief of Party D. Moncevicz Recovery Date November 1961 Stamping N 311 1952 County Pima

etailed report Recovered as described on Silver Bell Area, Arizona, 51 Arizona, on line number 10, titled Santa Rosa(Gu Achi) to 3.2 miles west of Bitter Well(Sif Vaya) on lithograph list dated June 30, 1953, reprinted October 30, 1958.

Detailed report Present condition

Good

### DESCRIPTION OF BENCH MARK Silver Bell Area

Character of mark Distance and direction Nearest town N 311 R.M. (USGS) State Iron Bolt from nearest town Ventana 0.6 mile east Pime Arizona Stamping Pima

Established by the road from 'N311', 17 feet north of the center line of and about level with the road, 6.4 feet south of a 42 feet high wooden post, and set in the top of a concrete post projecting 0.5 foot above the ground. Same description to reach as B.M. N311, 52.7 feet north and across United States Geological Survey

# VERTICAL CONTROL DATA

FUBLISHED AND PRINTED BY: U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY WASHINGTON D.C.

Coast and Geodetic Survey SEA-LEVEL DATUM OF 1929

321122

32°00' to 32°30' 112°00' to 112°30' NI 12-10 AJO LATITUDE LONGITUDE DIAGRAM

(1-8-58)

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

# RECOVERY NOTE, BENCH MARK

State Arizona County Pima County Pima at Ventana Designation J 90 State Ar Nearest town Ventana County Distance and direction from nearest town at Ven Character of mark A C&GS Bench Mark Disk Established by C&GS Percent condition Good

County Pima Chief of Party D. Moncevicz Recovery Date November 1961 Stamping J 90 1935

Detailed report. Recovered as described on Silver Bell Area, Arizona, 51 Arizona, on line number 10, titled Santa Rosa(Gu Achi) to 3.2 miles west of Bitter Well(Sif Vaya) on lithograph list dated June 30, 1953, reprinted October 30, 1958.

## Bilter Bell Area DESCRIPTION OF BENCH MARK

Stamping P 311 1952 Pima County Artzona Pina Nearest town Veatcase County Pines
Distance and direction from nearest town 0.9 miles north State Ventens P 311 Designation

Character of mark

wied description 0.9 mile north along a track road from the water tank at Ventana, about 100 yards west southwest of the north end of a levee, about 90 yards north of the crossing of a wash, 21g feet east of the center line of and about level with the road, 2.6 feet north of a witness post, and set in the top of a concerte post projecting 0.6 feet above the ground. Bronze Msk United States Coast & Geodetic Survey Established by Detailed description

### S11ver Bell Area DESCRIPTION OF BENCH MARK

County

Att zone. Distance and direction from nearest town 1.9 miles north County State Ventana Nearest town

Stamping **K 90 1935** Bronze Mak United States Coast & Geodesic Survey Character of mark Established by

Described description 1.9 miles north along a track road from the water tenk at Ventans, about 5/4 mile scattmest of a mountain, about midmay between two ridges, on the wast alope of a hillaide covered with graces wood and Palo Vende trees, il rest east of the emter line of and about 1 foot higher than the road, 1.4 foot west of a witness post, and set in the top of a concrete post projecting 0.7 foot above the ground,

## \$11ver Bell Area DESCRIPTION OF BENCH MARK

County Pina Arizona Pinal State 1974.2 (USGS) Qua jote

Distance and direction from nearest town 9.8 miles southwest

Character of mark

I aron Bolt

Established by

United States Geological Survey

Established by

United States Geological Survey

Established by

United States Surthers talong a graveled road from the well at the

Endian Village of Quejote, thence 7.2 miles southwest along a graded road, at

the 77 junction of a dim road leading north, on top of a roady hill, 60 feet west

of the sporozimate center of the junction, 48 feet northwest of the center line

of the road, and an iron bolt set in the top of a concrete post projecting 0.7

foot abore the ground, and about level with the road.

## SILVET BOLL Area DESCRIPTION OF BENCH MARK

M 91 R.M. (USGS) State

Designation M 91 R.W. (USGS) State Arizona County Frank

Nearest town

Oun jobs

County Plank

Distance and direction from nearest town

Income Boil

Established by

Distance and of excitor of the southwest

Established by

Distance and southwest along a graveled road from the well at the stated are find an Tillage of Quajote, thence 8.1 miles southwest along a graded road, in a small dearring on top of a rocky ridge, 0.2 miles southwest along a graded road, in a small dearring on top of a rocky ridge, 0.2 miles northeest of B.W. 191\*, 71½

feet northwest of and across the road from a lone giant cectus, 38 feet northwest of the center line of the road from a lone giant cectus, 38 feet northwest of the road from a lone giant cectus, 38 feet northwest of post projecting 0.4 foot above the ground, and about 1 foot higher than

### DESCRIPTION OF BENCH MARK

County County Pinal 10.9 miles southwest Arizona Distance and direction from nearest town Qua jote

Character of mark Bronze Disk
Established by United States Coast & Geodetic Survey
Detailed description 2.6 miles southeast along a graveled road from the well at the Indian
Village of Quisjote, thence 8.3 miles southwest along a graded road, on the northeast
slope of a rocky hillsine, 20 feet southeast of the center line of the road, 1.6 feet
northwest of a witness post, and set in the top of a concrete post projecting 0.3 foot
above the graund, and about level with the road.

PUBLISHED AND PRINTED BY:
U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
WASHINGTON D.C.

### VERTICAL CONTROL DATA by the

Coast and Geodetic Survey SEA-LEVEL DATUM OF 1929

# DESCRIPTION OF BENCH MARK

Distance and direction from nearest town
Character of mark Bronze Disk Detailed description Established by Nearest town naracter of mark Bronze Disk States Coast & Geodetic Survey United States Coast & Geodetic Survey tablished by United States Coast & Geodetic Survey table from the well at the Indian Village of Quajote, thence 10.3 miles southwest along a graded road, about 97 yards L 91 Qua jote State County Pinal 12.9 miles southwest Arizona County Pime

northeast of an Indian hut, about 85 yards northwest of a hut, 17 feet northwest of the center line of the road, 1.3 feet southeast of a witness post, and set in the top of a concrete post projecting 0.4 foot above the ground, and about level with the road.

### DESCRIPTION OF BENCH MARK Silver Bell Area

Pina

Distance and direction from nearest town Detailed description Established by Character of mark Designation illed description 2.6 miles southeast along a graveled road from the wall at the Indian Village of One jote, thense 11.3 miles southwest along a graded road on top of a steep ridge, 34% feet north of the center line of the road, and an iron bolt set in the top of a consrete just projecting 0.4 foot above the ground, and about 1% feet higher than the road. United States Geological Survey Quajote 2245.6 (USGS) State 15.9 miles southwest County Pinal ATIZODA Stamping County

# DESCRIPTION OF BENCH MARK

Character of mark Bronze Disk United States Coast & Geodetic Survey United States Coast & Geodetic Survey Detailed description 2.6 miles southeast along a graveled road from the well at the Indian Detailed description the theme 12.3 miles southwest along a graded road on the northwest Village of Quajore, themee 12.3 miles southwest of 2 abandoned shacks, about 125 yards south slope of a grade about 0.3 mile southwest of 2 abandoned shacks, about 125 yards south slope of the crossing at a large wooden gate, about 62 feet southwest of a point where the road crosses a large wash, 36 feet southeast of the center line of the road, 12 feet road crosses a large wash, 36 feet southeast of the center line of the road, 12 feet southwest of a twin giant cactus, 1.3 feet west of a witness post, and set in the top southwest of a twin giant cactus, 1.3 feet west of a witness post, and set in the top southwest of a twin giant cactus, 1.3 feet west of a witness post, and set in the top southwest of a twin giant cactus, 1.3 feet west of a witness post, and set in the top southwest of a twin giant cactus, 1.3 feet west of a witness post, and set in the top southwest of a twin giant cactus, 1.3 feet west of a witness post, and set in the top southwest of a twin giant cactus, 1.3 feet west of a witness post, and set in the top southwest of a twin giant cactus, 1.3 feet west of a witness post, and set in the top southwest of a twin giant cactus, 1.3 feet west of a witness post, and set in the top southwest of a concrete post projecting 0.4 foot above the grand, and a bout 1 foot higher than Detailed description Character of mark Distance and direction from nearest town Qua jote County State 14.9 miles southwest Arizona Pinal County Pin

the road.

PAGE NO. 115

32°00' to 32°30' 112°00' to 112°30' NI 12-10 AJO

321122

LATITUDE DIAGRAM

Arizona

J.G. Ransom, 1930

Third Order

Adjusted Elevations Based On Sea Level Datum of 1929

Book: B 4054

Latitude 32°15' Longitude 112°30'

(1) FROM TONOCA QUADRANGLE (57) NORTH AND NORTHWEST ALONG ROADS INTO AJO QUADRANGLE (78)

Ajo, 11.7 mi. SE. of along State Highway 86, at junction of old Sonoyta-Ajo Highway, 176 ft. SW. of center of State Highway 86, 28 ft. SE. of old highway, 4 ft. SE. of a cast iron post, in concrete post; standard tablet stamped "R 26 1930" (Recovered by C&GS, 1953)

Triangulation station "TARGET NO 2" (C&GS) Latitude: 32°15'25.84" Longitude: 112°44'00.93" (Bull. 224)

Adjusted Elevations Based On Sea Level Datum of 1929

Books: B 4055

PV 444

Iatitude 32°15'

Longitude 112°30'

(2) FROM AJO QUADRANGLE (78) EAST, SOUTH AND NORTHEAST ALONG ROAD INTO THE QUIJOTOA NO. 2 QUADRANGLE (76)

,	
Childs Ranch, 7.4 mi. NE. of, 15 ft. N. of rd., in concrete post; standard tablet stamped "R 37 1930"	1703.250
Childs Ranch, 7.4 mi. NE. of, 3.5 mi. N. of Pozo Redondo, 15 ft. E. of rd., in concrete post; standard tablet stamped "R 38 1930" (Destroyed, 1962)	1803.915
Sikort Chuapo, 275 ft. S. of church, in intersection of rds., in concrete post; standard tablet stamped "R 39 1930"	1904.080
Sikort Chuapo, 2.9 mi. S. of, 10 ft. W. of rd., in concrete post; standard tablet stamped "R 40 1930"	2014.180
Charco de la Pietra, 0.7 mi. W. of, 5.6 mi. S. of Pozo Redondo, 100 ft. SE. of rd. intersection, at point of rocky outcrop, in lava outcrop; standard tablet stamped "R 41 1930"	2070.856
Charco de la Pietra, 2 mi. NE. of, 100 ft. W. of rd., 3 ft. above ground, in large boulder S. of high boulders; standard tablet stamped "R 42 1930"	2150.392
Charco de la Pietra, 5 mi. NE. of, on top of small ridge, 15 ft. E. of rd., in concrete post; standard tablet stamped "R 43 1930"	2204.357
Charco de la Pietra, 8 mi. NE. of, 15 ft. E. of rd., in concrete post; standard tablet stamped "R 44 1930" New Description: Hickiwan Rd. Junction, 3.8 mi. SW. to a drain crossing rd., thence 0.6 mi. NW. cross-country at right angles from highway, 40 ft. W. of a small drain, in concrete post projecting 12 in. above ground; standard tablet stamped "R 44 1930"	2194.655
0	

Book: PV 48

Adjusted Elevations Based On Sea Level Datum of 1929



Intitude 32°15' Iongitude 112°30'

(3) FROM QUIJOTOA NO. 2 QUADRANGLE (76) WEST AND NORTH ALONG ROAD INTO THE HAT MIN. QUADRANGLE (101)

Emika, 2.2 mi. N. thence 1 mi. W. from, 225 ft. W. of pipe line Milepost 59, 15 ft. S. of rd., in concrete post; iron rod	2356.76
Emika, 2.2 mi. N. thence 2 mi. W. from, 30 ft. SW. of Milepost 60, 32 ft. S. and 58 ft. E. of Toapitk Crossroads, in concrete post;	
standard tablet stamped "50 GWM 1948 2379"	2379.501
Reference mark, 132 ft. NW. of tablet, in concrete post; steel rod	2379.99
Toapitk Crossroads, 1 mi. NW. of, 0.2 mi. NW. of rd. junction, 30 ft. NE. of rd., in concrete post; iron rod	2417.5
Toapitk Crossroads, 2 mi. NW. of, 29 ft. E. of rd., in concrete post; standard tablet stamped "51 GWM 1948 2459"	2458.854
Reference mark, lll ft. N. of tablet, in concrete post; steel rod	2459.49

Adjusted Elevations Based On Sea Level Datum of 1929 And Suppl. Adj. of 1958

Book: PV 444

Latitude 32°15'

Longitude 112°30'

(4) FROM THE NORTH EDGE OF TONOCA QUADRANGLE (57) NORTHEAST INTO QUIJOTOA NO. 2 QUADRANGLE (76) TWO MILES WEST OF HICKIWAN

0.95 mi. N. of BM "3 LC 1961", 70 ft. E. of prominent drain, 25 ft. E. and 5 ft. higher than center of gravel rd., large flat boulder in place; chiseled square

2151.446

Ajo, 22 mi. E. of along State Highway 86, to junction of gravel rd., thence 5 mi. N. to a curve at top of rise, 35 ft. W. and 2 ft. higher from center of rd., concrete post projecting 4 in.; standard tablet stamped "4 LC 1961 2177"

2176.715

Reference mark, 68 ft. SE. of tablet and 4 ft. lower, rock in place; chiseled square

2172.605

0.82 mi. N. of BM "4 LC 1961", 30 ft. NW. of center of rd. and 1 ft. higher, 10 ft. E. of small dike, top of buried rock

2179.547

Ajo, 22 mi. E. of along State Highway 86 to junction of gravel rd., thence 7 mi. W. to prominent knoll on W. side of rd., about 300 ft. S. of large drain crossing, 32 ft. W. of center of rd., concrete post projecting 6 in.; standard tablet stamped "5 LC 1961 2205"

2204.936

Reference mark, 70 ft. E. of tablet, 2 ft. S. of cairn, rock in place; chiseled square

2203.346

1.06 mi. N. of EM "5 LC 1961", to the P.I. of a curve opposite a long dark ridge, 50 ft. NW. of center of rd., buried boulder; chiseled square

2227.141

Ajo, 22 mi. E. of along State Highway 86 to junction of gravel rd., thence 9 mi. NNE., 4.6 mi. SW. of Hickiwan, 36 ft. SE. of center of rd., 15 ft. NE. of center of large bush, a concrete post projecting 4 in.; standard tablet stamped "6 LC 1961 2192"

2192.332

Reference mark, 93 ft. SW. of tablet, 40 ft. SE. of center of rd., buried rock; chiseled square

2193.069

0.8 mi. NE. of EM "6 LC 1961" to prominent overflow area, 55 ft. SE. of center of rd., and 1 ft. higher, buried boulder; chiseled square

Adjusted Elevations Based On Sea Level Datum of 1929 And Suppl. Adj. of 1958

Book: PV 444

(4) Ajo, 22 mi. E. of along State Highway 86 to junction of gravel rd., thence N. 10.8 mi. to small rise, 500 ft. SE. of drain crossing, (Hickiwan 3 mi. SW. of), 55 ft. SE. and 4 ft. higher, center of rd., concrete post, projecting 5 in.; standard tablet stamped "7 LC 1961 2194"

2193.592

Reference mark, 110 ft. W. of tablet, 40 ft. W. and 3 ft. higher, center of rd., rock in place; chiseled square

2192.601

1.04 mi., NE. of BM "7 LC 1961", 45 ft. SE. of center of rd., buried rock; chiseled square

1381.795

1471.795

1640.266

1750.528

1743.869

1773.318

1796.467

1813,510

1748.478

1739.006

1615.257

1674.304



Edition of 4/29/57

Preliminary adjusted elevations to be readjusted when final adjusted elevations are available for USC&GS lines in this area.

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



### USC&GS Leveling Lines

- A. Gila Bend to Lukeville, Arizona (No. 77) First order
- B. Ajo-Mexican Border Area (No. 76)

### LINE 1.

FROM MIDWAY QUADRANGLE (102) SOUTH ALONG TUCSON CORNELIA & GILA BEND RAILROAD TO AJO THENCE SOUTH ALONG ROAD VIA DARBY WELL INTO GROWLER PASS QUADRANGLE (58) (by J. G. Ransom, 1930; Book B 4054)

Ajo, 7.6 mi. N. of station along Tucson Cornelia & Gila Bend Railroad; 54 ft. NE. of milepost 36; 0.1 mi. NW. of wooden bridge 361; 41 ft. SW. of SW. rail; in concrete post; standard tablet stamped "R 12 1930" (Recovered by USC&GS, 1953)

'Ajo, 4.7 mi. N. of station along Tucson Cornelia & Gila Bend Rallroad; O.1 mi. N. of milepost 39; 159 ft. SE. of 4-ft. metal tank; 137 ft. SE. of sign "STATION 1 MILE"; 58 ft. E. of E. rail; 26 ft. E. of dirt rd.; 9 ft. S. of power pole; in line with row of poles; in concrete post; standard tablet stamped "R 13 1930" (Recovered by USC&GS 1953)

Ajo, 1.8 mi. N. of station along Tucson Cornelia & Gila Bend Railroad; 176 ft. E. of E. rail; 48 ft. S. of power line pole 39; 33 ft. E. of center of dirt rd.; in W. side of N. concrete pier of The Westerly Pipe Line; standard tablet stamped "R 14 1930" (Recovered by USC&OS, 1953)

Ajo, 0.2 mi. SE. of station along Tucson Cornelia & Gila Bend Railroad; 139 ft. S. of center of State Highway and concrete culvert; 71 ft. NW. of center of gate in fence around copper mill; 32 ft. NE. of NE. rail; in NW. end of NE. concrete culvert head wall; standard tablet stamped "R 15 1930" (Recovered by USC&GS, 1953)

Clarkston, 1.9 mi. SE. of; 2.3 mi. SE. of station at Ajo; 0.6 mi. S. of rd. jct.; 5 ft. S. of rd.; top of center screw of U. S. Mineral Survey plate on top of iron pipe; stamped USMS 3488 4 M F L W R 4

Clarkston, 2.5 mi. S. of; 10 ft. N. of customs sign in rd. fork; in concrete post; standard tablet stamped "R 16 1930" (Reported not found USC&GS, 1952)

Clarkston, 3.0 mi. S. of; about 400 ft. S. of large prospect workings; 260 ft. N. of "HOTEL LYONS" sign board; 90 ft. E. of rd.; 3 ft. S. of 4x4-in. post; U. S. Mineral Survey post No. 3881; stamped on edges of square tablet "2 C R 4 2 C R 5 3 C R 6 and 3 C R 7"

Darby Well, 1.8 mi. S. of; 60 ft. S. of rd. intersection; 8 ft. E. of old rd.; in concrete post; standard tablet stamped "R 17 1930"

Darby Well, 3.4 mi. S. of; at W. edge of old rd.; in pile of white rocks; tablet on iron pipe stamped "S W C 23 N W C 24 S E C 7 and N E C 6"

Darby Well, 3.6 mi. S. of; 5 ft. W. of old rd.; in pile of white rocks; tablet on iron pipe stamped "S W CEX A N W CEX D"

Darby Well, 4.5 mi. S. of; 29 ft. NW. of new rd.; 12 ft. SE. of old rd.; in concrete post; standard tablet stamped "R 18 1930"

### TNE 2.

FROM POZO REDONDO QUADRANGLE (77) NORTHWEST ALONG ROAD TO POINT 1.3 MILES SOUTHEAST OF CLARKSTON (by J. G. Ransom, 1930; Book B 4054)

Clarkston, 8.1 mi. SE. of; 257 ft. NW. of center of dip in hwy.; 44 ft. SW. of hwy.; in concrete post; standard tablet stamped "R 27 1930" 1742.579

Clarkston, 5.0 mi. SE. of; at small bridge with iron railing; 12 ft. SW. of hwy.; in S. end of SE. abutment; standard tablet stamped "R 28 1930" 1626.601

Clarkston, 3.1 mi. SE. of; 290 ft. SE. of intersection of rd. to Childs Well; in NE. head wall of hwy. culvert; standard tablet stamped "R 29 1930" (Reported not found USC&GS 1954)

### LINE 3.

FROM AJO NORTHWEST ALONG ROAD THENCE SOUTHWEST TO DARBY WELL (by J. G. Ransom, 1930; Book B 4054)

Ajo, 0.2 mi. SE. of; standard tablet stamped "R 15 1930" (Described in Line 1) 1750.528

Gibson, 2.0 mi. W. of; 150 ft. SE. of intersection of old rd. to W.; 15 ft. NE. of rd.; in concrete post; standard tablet stamped "R 30 1930"

Gibson, 5.0 mi. W. of; 60 ft. N. of 4x4-in. post which is corner of mining claims; 30 ft. S. of rd.; in concrete post; standard tablet stamped "R 31 1930"

Gibson, 8.0 mi. W. of; 15 ft. S. of rd.; in concrete post; standard tablet stamped "R 32 1930" 1702.836

Darby Well, 3.8 mi. W. of; ll.0 mi. W. of Gibson; on point of ridge; 40 ft. N. of rd.; in concrete post; standard tablet stamped "R 33 1930"

Darby Well, 1.4 mi. W. of; 3.0 mi. S. of Ajo; in triangle formed by intersection of rds.; 30 ft. E. of "ROAD CLOSED" sign; in concrete post; standard tablet stamped "R 34 1930" 1890.467

### LINE 4.

FROM A POINT 1.4 MILES WEST OF DARBY WELL NORTH ALONG ROAD TO POINT 0.2 MILE SOUTHEAST OF AJO (by J. G. Ransom, 1930; Book B 4055)

No permanent marks'fall on this quadrangle.

### LINE 5.

FROM POINT 3.1 MILES SOUTHEAST OF CLARKSTON NORTH-EAST ALONG ROAD INTO POZO REDONDO QUADRANGLE (77) (by J. G. Ransom, 1930; Book B 4055)

Clarkston, 3.1 mi. SE. of; standard tablet stamped "R 29 1930" (Described in Line 2)

Childs Ranch, 1.5 mi. NE. of; 25 ft. S. of rd.; in concrete post; standard tablet stamped "R 36 1930" 1611.774

### GPO 974257

Adjusted Elevations Based On Sea Level Datum of 1929 And Suppl. Adj. of 1958

Book: PV 444

Latitude 32°15' Longitude 112°30'

(5	)	FROM	A	PO	INT	7	MI	LES	NORTH	EAST	OF	AJO	SC	UTHI	EAST	TO	A	POINT
		NORTH	(	F	HOTA	ASC	NC	VO	THENCE	NORT	THE	ST	TO	"Y"	JUNG	CTIC	M	

	101121111111111111111111111111111111111	
	"G 336 1961" (USC&GS)	1699.885
	Picture point "4-138 B"	1690.728
	0.97 mi. S. of EM "G 336", 100 ft. S. of EW. wash, middle of large mesquite grove, buried boulder; chiseled square	1670.811
	Childs Ranch, 3 mi. NE. of, 50 ft. SE. of center of dim rd., buried boulder; chiseled square	1682.035
	"R 37 1930" (Described in Line 2)	1703.250
	1.03 mi. E. of BM "R 37", 30 ft. N. of center of dim rd., 25 ft. S. of drainage ditch, buried boulder; chiseled square	1740.440
	Childs Ranch, 6.2 mi. NE. of, 18 ft. S. and 2 ft. higher than center of rd., 21 ft. W. of drain, 100 ft. S. of large palo verde tree, concrete post projecting 4 in.; standard tablet stamped "29 RRM 1962 1767"	1767.036
	Reference mark	1766.094
,	0.84 mi. NE. of BM "29 RRM", top of square headed bolt projecting 1.5 in., at base of windmill pump	1796.117
	0.45 mi. from windmill, 1.29 mi. NE. of BM "29 RRM", 100 ft. W. of gate at Indian reservation fence	1806.561
	Childs Ranch, 8.3 mi. NE. of, 24 ft. E. and 1 ft. higher than center of rd., 40 ft. E. of mesquite bush, concrete post projecting 3 in.; standard tablet stamped "30 RRM 1962"	1827.611
	Reference mark, 91 ft. W. of tablet, buried boulder; chiseled square	1826.756
	0.53 mi. S. of BM "30 RRM", 70 ft. W. of large wash, buried boulder; chiseled square	1845.350

12/4/63 dw X

Adjusted Elevations Based On Sea Level Datum of 1929 And Suppl. Adj. of 1958

Book: PV 444

square

(5) Sikort Chuapo, 1.39 mi. N. of, 20 ft. E. of dim rd., 25 ft. S. of low mesquite bush, concrete post projecting 4 in.; standard tablet 1868.424 stamped "31 RRM 1962 1868" Reference mark, 53 ft. N. of tablet, 6 ft. E. of rd., buried boulder; 1867.960 chiseled square Sikort Chuapo, 1.1 mi. N. of, 15 ft. E. of rd., on 4 x 4 post (Not 1871.701 copper nail and washer) (Old post by Ransom, 1930) 0.96 mi. S. of BM "31 RRM 1962", 20 ft. E. of rd., buried boulder; 1890.804 chiseled square 1904.080 "R 39 1930" (Described in Line 2) Standard azimuth tablet stamped "POZO 1936" projecting 4 in. above 1969.384 ground: (described in Special Publication 224, Arizona, page 141) 1 mi. S. of Pozo Azimuth Mark, 20 ft. N. of small wash, buried 1998.195 boulder; chiseled square 2014.180 "R 40 1930" (Described in Line 2) 1.04 mi. S. of BM "R 40 1930", 12 ft. E. of and 1 ft. higher than 2022.429 center of rd., buried boulder; chiseled square 2070.856 "R 41 1930" (Described in Line 2)

12/4/63 dw A

2073.628

2091.077

Reference mark, 28 ft. N. of BM "R 41 1930", in large rock; chiseled

1.01 mi. E. of BM "R 41 1930", 0.2 mi. E. of Hotason Vo, 0.20 ft. higher than center of Y-rd. junction, buried boulder; chiseled

square (Mark is set between rds. at Y-junction)

POZO REDONDO (77)

Arizona

R.R. Moore, 1962

Third Order

Adjusted Elevations Based On Sea Level Datum of 1929 And Suppl. Adj. of 1958

Book: PV 444

Latitude 32°15'

Longitude 112°30°

(6) FROM Y-JUNCTION SOUTHWEST TO A POINT NEAR HOTASON VO

Picture point LC, 0.25 mi. E. of SEM, at Y-junction

2097.533

1.86 mi. E. of BM "R 41 1930", 0.9 mi. E. of Hotason Vo, 23 ft. S. of center of dirt rd., 25 ft. NW. of lone mesquite tree, buried rock; chiseled square

2103.444

Picture point LC

2119.532

"3 LC 1961"

POZO REDONDO (77)

Arizona

R.R. Moore, 1962

Third Order

Adjusted Elevations Based On Sea Level Datum of 1929 And Suppl. Adj. of 1958

Book: PV 444

Istitude 32°15' Iongitude 112°30'

(7) A CHECKED SPUR FROM BM "5 LC 1961" to EM "R 43 1930"

"5 LC 1961"

2204.936

"R 43 1930" (Described in Line 2)

POZO REDONDO (77)

Arizona

R.R. Moore, 1962

Trird Order

Adjusted Elevations Based On Sea Level Datum of 1929 And Suppl. Adj. of 1958

Book: PV 444

Latitude 32°15'

Longitude 112°30'

(8) FROM A POINT 0.3 MILE EAST OF CHARCO DE LA PIETRA SOUTH TO BM "4 LC 1961"

Note: Follows same route by Ransom, 1930.

SBM

2091.077

1.01 mi. NE. of SBM at 1-ra. junction, jo 10. dim rd., 250 ft. N. of two large twin cactus, buried rock; chiseled 2104.063 1.01 mi. NE. of SBM at Y-rd. junction, 30 ft. S. from center of

"R 42 1930" (Described in Line 2)

2150.392

Reference mark

2148.190

0.92 mi. NE. of BM "R 42 1930", 10 ft. S. from center of dim rd., 80 ft. E. of drain, 110 ft. N. of lone large cactus, top of Ransom's old 4 x 4 post

2180.322

"4 LC 1961"

Third Order

Field Elevations

Book: PV 444

LAt.: 3200' Long. 112° 30'

FROM USC&GS BM A 37, 22 MILES SOUTHEAST OF AJO ON STATE HIGHWAY 86, NORTH INTO SOUTH EDGE OF POZO REDONDO QUADRANGLE (77)

0.99 RM, "1 LC 1961", 70 ft. E. of tablet, 80 ft. N. of centerline of Highway 86, drill hole in top of buried rock

2173.764

1.00 BM, "1 IC 1961", Ajo, 22 mi. E. of along State Highway 86, at junction of gravel rd. N. to Hickiwan, 75 ft. N. of centerline of Highway 86, 40 ft. W. of center of gravel rd., in concrete post, projecting 4 in.; standard tablet stamped "1 IC 1961 2173"

2173.411

2.10 SBM, 1.09 mi. N. of BM "1 LC 1961", 30 ft. E. of center of gravel rd., 48 ft. N. of an ironwood tree, top of buried boulder projecting 4 in.

2138.546

2.81 RM, "2 LC 1961", 80 ft. S. of tablet, top of buried boulder projecting 6 in. above ground

2116.746

2.82 BM, "2 LC 1961", Ajo 22 mi. E. of along State Highway 86, to junction of gravel rd., thence 1.81 mi. N. of, 30 ft. E. of center of rd., 17 ft. NW. of telephone pole, concrete post projecting 2 in.; standard tablet stamped "2 LC 1961 2116"

2115.953

Tie Point - Quad 77
3.88 RM, "3 LC 1961", 132 ft. SE. of tablet, 30 ft. E. of N.-S. rd., top of buried boulder projecting 7 in.

2109.351

3.91 BM, "3 IC 1961", Ajo, 22 mi. E. of along State Highway 86, to junction of gravel rd., thence 2.9 mi. N. to "Y" junction, 30 ft. W. of N.-S. rd., 34 ft. NE. of NW.-SE. rd. at S. edge of brush line in triangle, concrete post projecting 6 in., stamped "3 IC 1961 2111"

2111.028

2/7/62 vrm\_ld

Third Order

## Field Elevations

Book: PV 444

Letitude 32°00' Longitude 112°30'

FROM USC&GS BM "J-338 1961" AT KERWO EAST ALONG ROAD INTO WEST EDGE OF QUIJOTOA NO. 3 QUADRANGLE (56)

0.00 USC&GS BM "J-338 1961"

2166.391

1.01 SBM, 1 mi. NE. of BM "J-338", 44 ft. N. of center of gravel rd., 13 ft. W. of center of dirt X-rd., buried rock; chiseled square

2152.799

2.10 BM, Ajo, 15.9 mi. E. of along State Highway 86 thence 12.3 mi. S. along graveled rd. to a T-jct. at Kerwo, thence 2.1 mi. easterly along graveled rd. toward Pisinimo to a track rd. S., 43 ft. N. and 1 ft. lower than center of main rd., 9 ft. W. of trail, concrete post projecting 8 in.; standard tablet stamped "13 LC 1961 2114"

2114.184 /

2.08 RM, 106 ft. SW. of tablet, 52 ft. S. and 2 ft. higher than center of rd., 48 ft. NW. of center of side rd., buried rock; chiseled point

2116.293

3.22 SBM, 1.13 mi. E. of BM, "13 LC", 38 ft. N. of center of rd., 10 ft. S. of cressote bush, buried rock; chiseled square

2076.930

4.20 BM, Ajo, 15.9 mi. SE. of along State Highway 86 thence 12.3 mi. S. along graveled rd. to a T-jct. at Kerwo, thence 4.2 mi. easterly along graveled rd. toward Pisinimo to a T-rd. S., 50 ft. N. and 1 ft. lower than center of rd., in line with side rd., concrete post projecting 8 in.; standard tablet stamped "14 IC 1961"

2046.569

4.18 RM, 107 ft. SE. of tablet, 50 ft. S. of center of rd., 36 ft. E. of center of side rd., buried rock; chiseled square

2045.737

2/16/62 lell

## U. S. DEPARTMENT OF COMMERCE

## COAST AND GEODETIC SURVEY Second-order leveling

# 11.6 Mi. SE of Ajo to Tucson, Arizona

The adjusted elevations in this list are based on the Sea-level Datum of 1929 and are derived from the original leveling of 1933 and the releveling of 1951 and 1952.

These elevations SUPERSEDE those previously published.

		- AND	-		
	Bench Mark	Adjusted (Meters)	Elevation (Feet)	Bench Mark	Adjusted Elevation (Meters) (Feet)
-*	1837.7 (USGLO)	560.055	1837.447	V 37	731.556 2400.113
	* V 36	573.712	1882.253	W 37	754.358 2474.923
	* L 309	593.083	1945.806	X 37	764.202 2507.219
	* W 36	600.870	1971.354	Z 37	746.768 2450.021
· -X	* EFS No. 39 * EFS No. 40 * M 309 X 36 Y 36	605.693 620.421 646.948	1969.8 1984.2 1987.178 2035.498 2122.529	A 38 B 38 C 38 D 38 E 38	740.190 2428.440 731.640 2400.389 719.378 2360.159 735.214 2412.115 761.945 2499.815
	Z 36	655.253	2149.776	1473+49.2 (ASHD)	765.174 2510.408
	A 37	663.128	2175.612	T 118	779.263 2556.632
	B 37	647.975	2125.898	1384+80.5 (ASHD)	783.420 2570.270
	C 37	628.518	2062.063	F 38	789.197 2589.224
	D 37	608.179	1995.334	1354+20.9 (ASHD) (	No elevation available)
	E 37	596.993	1958.635	G 38	810.908 2660.454
	F 37	589.986	1935.646	H 38	829.960 2722.960
	G 37	596.014	1955.423	J 38	870.820 2857.015
	H 37	621.858	2040.212	K 38	914.792 3001.280
	J 37	656.381	2153.477	876+1240 (ASHD) (N	elevation available)
	K 37	701.696	2302.148	L 38	915.448 3003.432
	L 37	749.068	2457.567	M 38	959.027 3146.408
	M 37	815.362	2675.067	N 38	933.834 3063.754
	N 37	812.496	2665.664	P 38	930.869 3054.026
	P 37	767.447	2517.866	R 38	915.175 3002.537
	R 37	730.813	2397.676	S 38	884.571 2902.130
	S 37	689.148	2260.980	T 38	876.200 2874.666
	T 37	652.899	2142.053	U 38	842.891 2765.385
	Y 37	670.638	2200.251	V 38	819.812 2689.667
	U 37	702.311	2304.165	W 38	805.722 2643.440

Bench Mark	Adjusted Elevation (Meters) (Feet)	Bench Mark Adjuste (Meters	d Elevation (Feet)
3 (ASHD) 2 (ASHD) X 38 RESET	790.406 2593.190 783.773 2571.429 781.946 2565.434	C 296 740.009 EFS No. 132	2427.846 2426.4
1 (ASHD)	781.566 2564.188 774.419 2540.740	Spur line through Ryan Airp	ort
Y 296		V 296 736.439	
Y 38 RESET X 296	*2527.446 771.607 2531.514	U 296 73 <sup>4</sup> .531 T 296 728.040	
268+15 (ASHD)	771.277 2530.431		25001710
A 113	773.898 2539.030	Ryan Airport high point EFS No. 131	2412.8
R.M. 1 A 113 R.M. 2 A 113	773.928 2539.129 774.108 2539.719	End of the spur line.	
343+14 (ASHD)	772.598 2534.765		
Z 38 RESET	772.142 2533.269	795+00 (ASHD) 739.054	2424.713
367+99.25 (ASHD)	771.935 2532.590	B 296 738.676	
395+86.67 (ASHD)	769.256 2523.801	E 39 RESET 738.470 913+52 (ASHD) 739.494	
405+35 (ASHD) 443+83 (ASHD)	768.765 2522.190 764.786 2509.135		
115105 (115111)	1011100 27071237	EFS No. 133 A 296 744.840	2429.7 2443.696
A 39 RESET	763.571 2505.149	EFS No. 134	2468.0
465+40.25 (ASHD) 491+31.25	762.364 2501.189 759.264 2491.019	F 39 755-977	2480.235
540+60 (ASHD)	754.291 2474.703	Snyder Hill	
549+60 (ASHD)	753.470 2472.009	(Ariz.Geod.S.) 799.932	2624.444
B 39 RESET	752.279 2468.102	R.M. 1 Snyder Hill (Ariz.Geod.S.) 796.852	0671 220
562+40 (ASHD)	752.524 2468.906	R.M. 2 Snyder Hill	2614.339
594+10 (ASHD) 607+00 (ASHD)	749.670 2459.542 748.175 2454.637	(Ariz.Geod.S.) 798.809	2620.759
FIELD N - 300	2452.8	Azimuth Mark Snyder Hill	
EFS No. 129 631+07 (ASHD)	746.361 2448.686	(Ariz.Geod.S.) 792.982	
649+60 (ASHD)	744.826 2443.650	W 296 767.190 G 39 (New Elev.) 778.592	
654+55 (ASHD)	744.043 2441.081		
C 39 RESET	742.839 2437.131	R 112 RESET 787.488 1218+10 (ASHD) 806.840	
667+05 (ASHD) 701+95 (ASHD)	743.021 2437.728 740.901 2430.773	Н 39 808.940	
713+45 (ASHD)	740.395 2429.113	J 39 762.462	2501.511
FFS No. 125	2414.0	к 39 728.000	2388.447
EFS No. 135 D 296	739.175 2425.110	L 39 717.471	
EFS No. 130	2425.1	Tucson (1933) ** 719.898	2361.865
D 39 RESET	*2423.383	1-21-07-0	

Elevation derived from the 1951 leveling.

1935 elevation.

USCOMM-C&GS-DC

# UNITED STATES COAST AND GEODETIC SURVEY Second-order leveling

# 11.6 Mi. SE of Ajo to Tucson, Arizona

The standard (adjusted) elevations in this list are based on the Sea-level Datum of 1929. (Elevations derived from the 1933 leveling unless otherwise noted.)

The preliminary elevations in this list are unadjusted and subject to correction. (Elevations derived from the 1951 and 1952 leveling.)

B.M.	Preliminary Office Elevation	Adjusted :	Elevation
Barthers (Barth	(Meters)	(Meters)	
* R 26 (USGS) 1837.7 (USGLO)	548,6327	548.728 560.134 573.790	1800.285 1837.706 1882.509
** L 309	573.8017 593.1677	600.951	1971.620
** W 36	600.9499	900 ° 32T	1971.020
** EFS No. 39  ** EFS No. 40  ** M 309	600.48 604.87 605.7727		
X 36 Y 36		620.499 647.025	2035.754 2122.781
Z 36 A 37 B 37 C 37 D 37		655.327 663.201 648.045 628.586 608.244	2150.019 2175.852 2126.128 2062.286 1995.547
E 37 F 37 G 37 H 37 J 37		597.056 590.048 596.072 621.915 656.435	1958.841 1935.849 1955.613 2040.399 2153.654
K 37 L 37 M 37 N 37 P 37		701.747 749.118 815.409 812.541 767.489	2302.315 2457.731 2675.221 2665.812 2518.003
R 37 S 37 T 37 Y 37 U 37		730.855 689.190 652.941 670.680 702.352	2397.813 2261.118 2142.191 2200.389 2304.300

<sup>\*</sup> Tie mark to Line 77 Ariz. (Preliminary elevation is a 1953 field elevation)

<sup>\*\*</sup> Tie marks to Line 76 Ariz.

<u>B.M.</u>	Preliminary Office Elevation (Meters)	Adjusted Elevation (Meters) (Feet)
V 37 W 37 X 37 Z 37 A 38		731.596 2400.245 754.399 2475.057 764.242 2507.351 746.808 2450.153 740.229 2428.568
B 38 C 38 D 38 E 38 1473+49.2 (ASHD)	761.9896 765.2175	731.679 2400.517 719.417 2360.287 735.252 2412.239 761.984 2499.942
T 118 1384+80.5 (ASHD) F 38 1354+20.9 (ASHD) G 38	779.3043 783.4625 789.2390 (Not leveled over) (Not leveled over)	789.239 2589.362 (No elevation available) 810.950 2660.592
H 38 J 38 K 38 876+1240 (ASHD) L 38	(Not leveled over) (Not leveled over) (Not leveled over)	830.002 2723.098 870.863 2857.156 914.838 3001.431 (No elevation available) 915.497 3003.593
M 38 N 38 P 38 R 38 S 38		959.0803146.582933.8903063.937930.9293054.223915.2393002.747884.6392902.353
T 38 U 38 V 38 W 38 3 (ASHD)	805.7989 790.4818	876.272 2874.902 842.966 2765.631 819.892 2689.929 805.805 2643.712
2 (ASHD) X 38 (RESET) 1 (ASHD) Y 296 Y 38 (RESET)	783.8474 782.0209 781.6409 774.4928 (Not leveled over)	* 2527 <b>.44</b> 6
X 296 268+15 (ASHD) A 113 R.M. 1 A 113 R.M. 2 A 113	771.6803 771.3493 773.9685 773.9985 774.1795	

<sup>\* 1935</sup> elevation.

	• \	Same and the low			
ir ir	B.M.	Preliminary Office Elevati (Meters)		Adjusted El (Meters)	evation (Feet)
	343+14 (ASHD) Z 38 RESET 367+99.25 (ASHD) 395+86.67 (ASHD) 405+35 (ASHD)	772.6689 772.2126 772.0065 769.3280 768.83 <b>67</b>			
	443+83 (ASHD) A 39 RESET 465+40.25 (ASHD) 491+31.25 (ASHD) 540+60 (ASHD)	764.8584 763.6437 762.4376 759.3376 754.3654			
	549+60 (ASHD) B 39 RESET 562+40 (ASHD) 594+10 (ASHD) 607+00 (ASHD)	753.5447 752.3541 752.5988 749.7456 748.2509	2468.35		
	EFS No. 129 631+07 (ASHD) 649+60 (ASHD) 654+55 (ASHD) C 39 RESET	747.69 746.4374 744.9029 744.1196 742.9159			
	667+05 (ASHD) 701+95 (ASHD) 713+45 (ASHD) EFS No. 135 D 296	743.0975 740.9783 740.4719 735.87 739.2525	2425,36		
	EFS No. 130 D 39 RESET C 296 EFS No. 132	739.26 (Not leveled of 740.0867 739.63	2428.10	* 2423.383	
	Spur line through Ryan	n Airport			
	V 296 U 296 T 296	736.5170 734.6089 728.1174			
	Ryan Airport high point EFS No. 131	735.49		, ,	
	End of the spur line.				
1	795+00 (ASHD) B 296 E 39 RESET 913+52 (ASHD) EFS No. 133	739.1325 738.7542 738.5494 739.5737 740.65	2423.73		
					110

# 1935 elevation.

	B.M. Of	Preliminary  fice Elevation  (Meters)		Elevation (Feet)
	A 296 EFS No. 134 F 39	744.9203 2443 752.33 756.0580	756.058	2480.500
	Snyder Hill (Ariz.Geod.S.) R.M. 1 Snyder Hill	800.0131		
	(Ariz.Geod.S.) R.M. 2 Snyder Hill	796,9337		
	(Ariz.Geod.S.) Azimuth Mark Snyder Hill	798.8901		
	(Ariz.Geod.S.)	793.0637		
	W 296	767.2005 2517.0	5	
	G 39	778.6015	778.682	2554.726
	R 112 RESET	787,4969 2583,6	et.	
	1218+10 (ASHD)	806.8493		
	Н 39	808,9498	809.022	2654.266
	J 39 K 39 L 39	-	762.543 728.081 717.545	2388.712 2354.146
	TUCSON		* 719.898	2361.865

<sup>\*</sup> Elevation derived from the 1951 leveling.

UNITED STATES COAST AND GEODETIC SURVEY

### 11.6 M1. SE of Ajo to Tucson, Arizona

This line follows State Highway 86 from a point 11.6 miles southeast of Ajo through Sells to Tueson. The original field work was done in November 1935 by a party under the supervision of Gilbert R. Fish. The portion of the line from a point 3.6 miles east of Sells to a point 15.6 miles mortheast of Sells wha releveled in January 1952 by a party under the supervision of J.R. Plaggmier; and the portion of the line from a point 26.9 miles southwest of Tueson to a point 4.8 miles southwest of Tueson was releveled in December 1951 by the same party.

This list SUPERSEDES a lithographed list entitled "Gila Bend to Tucson, Arizona" dated April 2, 1941; and contains additional data from the releveling of 1951-52, and from reports received since that list was issued.

The descriptions and elevations of bench marks on the original line between Gila Bend and a point 11.6 miles southeast of Ajo, are now published on "Gila Bend to Lukeville, Arizona (?? Ariz.)."

1837.7 (U.S.G.L.O.).-- 12.8 miles southeast of Ajo, Pima County. This bench mark may be reached from the Tucaon, Cornelia & Glim Bend Railroad station by going 0.2 mile southeast along the track, thence 12.6 miles southeast along State Highway 86. It is at the western boundary of the Papago Indian Reservation, 82 feet north of the center line of the highway, and in the fence line. A United States General Land Office standard cap, stamped "S1 S5 S31 S36 T138 T148 R4W R5W RF" and riveted on the top of a 3-inch iron pipe projecting 8 inches above ground.

V 36.-- 13.7 miles southeast of Ajo, Pima County. This bench mark may be reached from the fucson, Cornelia & Gila Bend Railroad station by going 0.2 mile southeast along the track, thence 13.5 miles southeast along State Righmay 86. It is 0.9 mile southeast of the west boundary of the Fapago Indian Reservation, 195.5 feet northwest of a concrete-protected dip in the highway, 40 feet southwest of the center line of the highway, 1.8 feet north of a white wooden witness post, and about 1 foot higher than the highway. A standard disk, stamped "1882.509 V 36 1933" and set in the top of a concrete post projecting 0.9 foot above ground.

L 309.-- 14.7 miles southeast of Ajo, Fima County. This bench mark may be reached from the Tucson, Cornelia & Gila Bend Railroad station by going 0.2 mile southeast along the track, thence 14.5 miles southeast along State Alghay 86. It is 1.0 mile northwest of the T-junction of Gunsight Road leading southeast and south, 103.5 feet southwest of the center of a small weak, 60 feet northeast of the center line of the highway, 2 feet south of a white wooden witness post, and about 1-1/2 feet higher than the highway. A standard disk, stamped "L 309 1952" and set in the top of a concrete post projecting 0.4 foot above ground.

W 36.-- 15.7 miles southeast of Ajo, Pima County. This beach mark may b. reached from the Tucson, Cornelia & Gila Bend Rgilload station by going 0.2 mile southeast along the track, thence 15.5 miles southeast along State Highway 86. It is at the T-junction of Gunsight Road leading southeast and south, 36.5 feet south of the center line of the highway, 11.5 feet southwest of the center line of Gunsight Road, 2.2 feet north of a white wooden witness port, and about 1-1/2 feet higher than the road. A standard disk, stamped "1971.620 W 36 1933" and set in the top of a concrete post projecting 1 foot above ground.

EFS No. 39.-- 15.7 miles southeast along State Highway 86 from the Tucson, Cornelia & Gila Bend Railroad station at Alohighway surface at the center of the T-junction of Gunsight Road leading southeast.

EFS No. 40.-- 16.5 miles southeast along State Highway 86 from the Tucson, Cornelia & Gila Bend Railroad station at  $A_{10}$ , center line of the highway at the northwest end of a bridge over a wash.

M 309.-- 16.5 miles southeast of Ajo, Pima County. This bench mark may be reached from the Tucson, Cornelis & Glia Bend Railroad station by going 0.2 mile southeast along the track, thence 16.3 miles southeast along State Highway 86. It is at the point where the road crosses a wash, it the intersection of a morth-sand-south road (the road leads south to Kerwoo), 287 feet south of the center line of the highway, 54 feet west of the center line of the road, 2.1 feet east of a white wooden witness post, and level with the road. A standard disk, stamped "M 309 1952" and set in the top of a concrete post projecting 0.3 foot above ground.

For additional bench marks in this locality, see "Ajo-Mexican Border Area, Arizona--Line 5 (76 Ariz.)."

X 36.-- 17.6 miles southeast along State Highway 86 from the Tucson, Cornella & Gila Bend Hallroad station at  $\underline{Ajc}$ , Plma County, on the old Ajo-Tuccon highway, 0.4 mile east of a small concrete bridge with an iron ralling, and 36 feet south of the center line of the highway. A stendard disk, etamped "2035.754 X 36 1933" and set in the top of a concrete post projecting 1 foot above ground.

Y 36.-- 19.7 miles southeast along State Highway 86 from the Tucson, Cornelia & dlia Bend Railroad station at Ajo. Pima County, on the old Ajo-Tucson Highway, 200 feet east of the creat of a rounded ridge, at the junction of a road leading south, 66 feet east of the center line of the road, and 31 feet south of the center line of the highway. A standard disk, stamped "2122.781" Y 36 1935" and set in the top of a concrete post projecting 10 inches above ground.

2 36.-- 21.7 miles southeast along State Highway 86 from the Tueson, Cornelia & Gila Bend Railroad station at Ajo, Pima County,

on the old-Ajo-Tueson highway, 0.2 mile east of the junction of a roal leading to Indian Casis, 180 feet west of a dip in the highway with masses of broken concrete nearby, and 58 feet north of the center line of the highway. A standard lisk, stamped "2150.019 2 36 1933" and set in the top of a concrete post projecting 1 foot above ground.

A 37.-- 23.6 miles southeast along State Highway 86 from the Tucson, Cornelia & Glia Bend Rollfoad station at alo, Pima County, on the old Alo-Tucson highway, 50 feet west of the West end of a wide ditch paralleling the highway, and 45 feet south of the center line of the highway. A standard disk, stamped "2175.052 & 37 1935" and set in the top of a concrete post projecting 8 inches above ground.

B 37.-- 25.4 miles southeast along State Highway 86 from the Tueson, Cornelis & Gila Bend Reliroad station at Ajo, Pima County, on the old Ajo-Tueson nightary, 0.5 mile east of a dark laws hill with a prominent baid knob, 160 feet west of the first dip in the highway, east of the hill, 42 feet south of the center line of the highway, in a shallow borrow pit, in the top of a lime-cemented conglomerate outcrop, and flush with the ground, A standard disk, stamped "2126,128 B 37 1933."

C 37.-- 27.6 miles east along State Highway 86 from the Tucson, Cornelia & Gila Bend Railroad station at Alo, Pima County, on the old Alo-Tucson highway, 0.3 mile east of a dip in the highway, and 46 feet north of the center line of the highway. A standard disk, stamped "2002.266 C 37 1953" and set in the top of a concrete post projecting 1 foot above ground.

D 37.-- 29.6 miles east along State Highway 86 from the Tucson, Cornelia & Gila Bend Hallroad existion at alo, Fina County, on the old Ajo-Tuoson highway, 0.1 mile east of a dip in the highway, and 52 feet north of the center line of the highway. A standard disk, stamped "1955.547 D 37 1935" and set in the top of a concrete post projecting I foot above ground.

E 37. -- 31.5 miles east along State Highway 86 from the Turson, Cornella & Gila Bend Reilroad station at Ajo, Pim. County, on the old Ajo-Tucson highway, 500 feet east of a dip across an arroyo with exceptionally high meaquite, and 54 feet south of the center line of the highway. A standard disk, stamped "1955.841 E 37 1953" and set in the top of a concrete post projecting 1 foot above ground.

F 37.-- 33.5 miles east along State Highway 86 from the Tuc-son, Cornelia & Gila Bend Railroad station at Ajo, Pinm County, 9.2 miles west of Pozo Bianco, on the old Ajo-Tucson highway, 1.1 miles west of the Tracy Trading Post at San Simeon Weil, 185 feet east of a dip in the highway, and 46 feet south of the center line of the highway. A standard disk, stamped "1935.849 F 37 1933" and set in the top of a concrete post projecting 10 inches above ground.

6 57.-- 7.3 miles west along State Highway 86 from Pozo Blanco, Pimm County, on the old Ajo-Tucaon highway, 0.5 mile east of the Tracy Trading Post at San Simeon Well, and 45 feet south of the center line of the highway. A standard disk, stamped "1955.613 0 37 1933" and set in the top of a concrete post projecting 9 inches above ground.

H 37.-- 5.3 miles west along State Highway 86 from Pozo Blanco, Pima County, on the old Ajo-Tucson highway, 0.3 mile west of a concrete-protected dip at the center of a curve, and 39 feet south of the center line of the highway. A standard disk, stamped "2040.399 H 37 1933" and set in the top of a concrete post projecting 10 inches above ground.

J 37.-- 3.3 miles west along State Highway 86 from Pozo Blanco, Pima County, on the old λJo-Tucson highway, and 46 feet north of the center line of the highway. A standard disk, stamped "2153.654 J 37 1935" and set in the top of a concrete post projecting 10 inches acove ground.

K 37.-- 1.3 miles weat along State Highway 86 from Pozo Baanco, Pima County, on the old Ajo-Tucson highway, and 51 feet rough of the center line of the highway. A standard disk, stamped "2502.315 K 37 1933" and set in the top of a concrete post projecting 9 inches above ground.

L 37.-- 0.6 mile east along State Highway 86 from the church are pozo Blanco, Pima County, on the old Ajo-Tućaon highway, on the east side of a low rocky point extending down to the highway from the south, 81 feet south of the center line of the highway, in the top of a allicified rhyolite outcrop, and about 6 inches above the ground. A standard disk, stamped "2457.731 L 37 1935."

M 37.-- 28.9 miles west along State Highway 86 from the post office at Sells, Pima County, 2.6 miles east of the church at Pozo Bienco, on the old Ajo-Tucson a ghway, and 30 feet south of the Center line of the highway. A standard disk, stamped "2675,221 M 37 1933" and set in the top of a concrete post projecting 8 inches above ground.

N 37.-- 26.8 miles west along State Highway 86 from the post office at Sells, Pima County, on the old Ajc-Tucson highway, 1.4 miles west of Savage's Store (in 1934), 350 feet west of a culvert at the north point of a rocky slope, 86 feet south of the center line of the highway, in the top of a grey/outcrop, end about 2 incress above the ground. A standard disk, stamped "2665.512 N 37 1935."

For additional bench marks in this locality, see "Silver Sell Area, Arizona--Line 2 (51 Ariz.)."

P 37.-- 24.8 miles northwest along State Highway 86 from the post office at Sells, Pima County, on the old Ajo-Tueson nighway. 0.5 mile east of Savare's Store (in 1934), 300 feet west of an Ind as graveyerd, opposite a small clearing on the north side of the highway, and 42 feet south of the center line of the highway. A standard disk, stamped "2518.003 P 37 1933" and set in the top of a concrete post projecting 7 inches above ground

R 37... 22.8 miles northwest along State Highway 86 from the post office at Sells, Pima County, on the old ajo-Tucson highway, 2.5 miles east of Savage's Store (In 1934), and 36 feet north of the center line of the highway. A standard disk, stamped "2597.813 R 37 1933" and set in the top of a concrete post projecting 8 37 1933" and set and s

S 37.-- 20.9 miles northwest along State Highway 86 from the post office at Sells, Fima County, on the old Ajo-Tucson highway, 4.4 miles east of Savage's Store (in 1934), at a long curve in the highway, and 39 feet south of the center line of the highway. A standard disk, stamped "2261.118 S 37 1933" and set in the top of a concrete post projecting 10 inches above ground.

T 37.-- 18.9 miles northwest along State Highway 86 from the post office at Sells, Pima County, on the old Ajb-Tucson highway, 6.4 miles east of Savage's Store (in 1954), 50 feet north of the center line of the highway, and in line with a row of poles. A standard disk, stamped "2142.191 T 37 1933" and set in the top of a concrate post projecting 10 inches above ground.

Y 37. -- 16.9 miles northwest along State Highway 86 from the post office at Sells, Pima County, on the old Ajo-Tucson highway, 8.4 miles east of Savage's Store (in 1934), 66 feet north of the center line of the highway, and in line with a row of poles. A standard disk, stamped "2200.389 Y 37 1933" and set in the top of a concrete post projecting 10 inches above ground.

U 37.-- 14.9 miles northwest along State Highway 86 from the post office at Sells, Pima County, on the old Ajo-Tuoson highway, 10.4 miles east of Savage's Store (in 1934), and 45 feet south of the center line of the highway. A standard disk, stamped "2304.300 U 37 1935" and set in the top of a concrete post projecting 8 inches above ground.

V 37. -- 12.7 miles northwest along State Highway 86 from the post office at Sells, Pima County, on the old Ajo-Tucson highway, near an Indian village, 60 feet east of a wide arroyo, at a shallow rock cut, 46 feet north of the highway, in the top of a rock outcrop, and about 2 inches above the ground. A standard disk, stamped "2400.245 V 37 1933."

NOTE-This bench mark was searched for but not recovered in December 1937.

W 37.-- 10.7 miles northwest along State Highway 86 from the part office at Sells, Pima County, on the 3id Ajo-Thucson highway, on the sest side of a saddle east of the Casebi Trading Station, 96 feet north of the center line of the highway, in the top of a 10-foot-square andesite boulder, and about 4 feet above the ground. A standard disk, stamped "2475.057 W 37 1933."

X 37.-- 8.7 miles northwest along State Highway 86 from the post office at Sells, Pima County, on the old Ajo-Tucaon highway, 1.2 miles southeast of the junction of a road leading to Mildren Mine, 156 feet west of a dip in the highway, and 40 feet north of the center line of the highway. A standard disk, stamped "2507.351 X 37 1933" and set in the top of a concrete post projecting 8 inches above ground.

2 37.-- 6.6 miles northwest along State Highway 86 from the post office at Sells, Pims County, on the old Ajo-Thuson highway, 66 feet east of the center line of the highway, 2-1/2 poles south of a corner pole, and in line with the row of poles. A standard disk, stamped "2450.155 Z 37 1935" and set in the top of a concrete post projecting 8 inches above ground.

A 38.-- 4.6 miles northwest along State Highway 86 from the post office at Sells, Pima County, on the old Ajo-Tucson highway, 87 feet northwest of a corner pole with a guy wire, near the junction of a dirt road leading west, 72 feet northeast of the center line of the highway, and in line with a row of poles. A standard disk, stamped "2428.568 A 36 1933" and set in the top of a correte post projecting 10 inches above ground.

B 38.-- 2.5 miles northwest along State Highway 86 from the post office at Sells, Pime County, 4-1/2 poles southeast of a dip in the highway, on the old Ajo-Tucson highway, 56 feet northeast of the center line of the highway, and in line with a row of poles. A standard disk, stamped "2400.517 B 38 1933" and set in the top of a concrete post projecting 10 inches above ground.

C 58.-- 0.6 mile north along State Highway 86 from the post office at Sella, Pima County, on the old Ajo-Tucson highway, 540 feet north of a wooden bridge over an arroyo at the north edge of town, 42 yards south of a fence corner, 62 feet east of the center line of the highway, and in line with a row of poles. A standard disk, stamped "2560.287 C 38 1933" and set in the top of a concrete post projecting 8 inches above ground.

D 38.-- 1.8 miles east along State Highway 86 from the post office at Sells, Pima County, on the old Ajo-Tucson highway, 0.7 mile east of a wooden bridge over an arroyo east of town, 50 feet east of pole 35, 44 feet south of the center line of the highway, and in line with a row of poles. A standard disk, stamped "2412.239 D 38 193"s and set in the top of a concrete post projecting 8 inches above ground.

E 38.-- 3.8 miles east of Sells, Pima County. This bench mark may be reached from the post office by going 1.5 miles east along a gravel road, thence 2.3 miles east along State Highway 86. It is 121.5 feet south of the center line of the highway, 34.6 feet northwest of a pole with a guy wire, 31 feet south of an east and-west fence line, 14 feet south of the center of a drainage ditch, 1.7 feet north of a white wooden witness post, and level with the highway. A standard disk, stamped "2499,942 E 38 1933" and set in the top of a concrete post projecting 1 foot above

1473+49.2 (A.S.H.D.).-- 4.1 miles east of Sells, Pima County. This bench mark may be reached from the post office by going 1.5 miles east along a gravel road, thence 2.6 miles east along State

Highway 86. It is at a concrete bridge over a wash, in the center of the top of the south concrete headwall, 17 feet south of the center line of the highway, 9.1 feet east of the west end of the headwall, and about 1/2 foot higher than the highway. An Arizona State Highway Department shandard disk, stamped "1473\*49.2 2510 1947."

NOTE--It was reported in January 1952 that a "7" has been ped over a "5" in the designation.

Til8.-- 5.2 miles east of Sells, Pima County. This bench mark may be reached from the post office by going 1.5 miles east along a gravel road, thence 3.7 miles east along State Highway 85. It is 151.5 feet south of the center line of the highway, 57 feet west of a dim road leading south, 41 feet southeast of a pole, 1.9 feet north of a white wooden witness post, and levol with the highway. A standard disk, stamped "I 118 1935" and set in the top of a concrete post projecting 0.7 foot above ground.

1384+80.5 (A.S.H.D.). -- 5.4 miles east of Sells, Pima County. This bench mark may be reached from the post office by going 1.5 miles east along a gravel road, thence 3.9 miles east along State Highway 86. It is at a bridge over a wash, in the center of the top of the south concrete headwall, 19 feet south of the center line of the highway, 6.2 feet east of the west end of the headwall, and 0.4 foot higher than the highway. An Arizona State Highway Department standard disk, stamped "1384+80.5 2570 1947."

F 38.- 5.8 miles east of Sells, Pima County. This bench mark may be reached from the post office by going 1.5 miles east along a gravel road, thence 4.3 miles east along State Highway 36 Lt is 0.2 mile west of the junction of dirt roads leading southeast and southwest, 0.2 mile west of a large concrete bridge over a wash, 99.5 feet south of the center line of the highway, 24.3 feet northwest of a pole, 20.1 feet south of an east-and-west fence, 2.3 feet north of a white wooden witness post, and level with the highway. A standard disk, stamped "2569,362 F 38 1933" and set in the top of a concrete post projecting 0.9 foot above ground.

1354+20.9 (A.S.H.D.). -- 6.0 miles east of Sells, Pims County. This bench mark may be reached from the post office by going 1.5 miles east along a gravel road, thence 4.5 miles east along State Highmay 86. It is at the junction of dirt roads leading southeast and southwest, 102.5 fest east of the center of the junction, at large concrete bridge over a wash, in the center of the top of the south concrete headwall, 19 feet south of the center line of the nighmay, 38 fest east of the west end of the headwall, and about 1/2 foot higher than the highway. An Arizona State Highway Department standard disk, stamped "1554+20, 2556.98 1947."

NOTE-This bench mark was not included in the releveling of 1952.

For additional bench marks in this locality, see "Arivaca Area, Arizona--Line 11 (3 Ariz.)."

G 38.- 7.8 miles east of Sells, Pima County. This bench mark may be reached from the post office by going 1.5 miles east along a gravel road, thence 4.5 miles east along a gravel road. It is 418 feet southeast of the center line of the new highway, 101.4 feet northeast of a pole, 44.5 feet southeast of the center line of the old highway, 8.8 feet northwest of a fence line, 2.2 feet north of a white wooden witness post, and level with the highway. A standard disk, stamped "2660.592 @ 38 1933" and set in the top of a concrete post projecting 0.8 foot above ground.

MOTE--This bench mark was not included in the releveling of

H 38.-- 9.7 miles east of Sells, Pima County. This bench mark may be reached from the post office by going 1.5 miles east along a gravel road, thence 8.2 miles east along State Highway 86. It is on the old 4jo-Tucson highway, 0.1 mile east of a road leading north to the Akron Gold Mining Co. property, 100 feet northeast of pole 226, 57 feet southeast of the center line of the highway, and in line with a row of poles. A standard disk, stamped "2723.098 H 38 1933" and set in the top of a concrete post projecting 10 inches above ground.

NOTE-This bench mark was not included in the releveling of 1952.

For additional bench marks in this locality, see "Arivaca Area, Arizona--Line IO (3 Ariz.)."

J 38.- 12.6 miles northeast of Sells, Pima County. This bench mark may be reached from the post office by going 1.5 miles east along a gravel road, thence 11.6 miles northeast along State Highway 86, thence 0.2 mile south along a dirt road, and thence 0.6 mile west along old State Highway 86. It is 0.2 mile east of a road junction, 45 yards north of pole 322, 50 feet south of the center line of the old highway, and about 2 feet higher than the road. A standard disk, stemped "2857.156 J 38 1933" and set in the top of a concrete pont projecting 0.8 foot above ground.

K 38.- 13.9 miles northeast of Sells, Pima County. This bench mark may be reached from the post office by going 1.5 miles east along a gravel road, thence 11.6 miles northeast along State Highway 86, thence 0.2 mile southeast along a drit road, and thence 0.6 mile east along the old highway. It is at the point where the road crosses a wash, 213.5 feet south of the center of the crossing, 168 feet southeast of the center line of the old highway, 155.8 feet east of a pole, in the top of a large outcrop with old Indian carvings, and about 4 feet higher than the road. A standard disk, stamped "3001.431 K 38 1933."

876+1240 (A.S.H.D.).-- 15.2 miles northeast of Sells, Pima County. This bench mark may be reached from the poat office by going 1.5 miles east along a gravel road, thence 13.7 miles northeast along State Highway 86. It is at a 5- by 44-foot concrete culvert, in the center of the top of the southeast headwall, 19 feet southeast of the center line of the highway, and level with the highway. An Arizona State Highway Department standard disk, stamped "976+1240 3003.65 1945."

NOTE--This bench mark was not included in the releveling of

L 38.-- 15.6 miles northeast of Sells, Pima County. This bench mark may be reached from the post office by going 1.5 miles east along a gravel road, thence 14.1 miles northeast along State Highmay 86. It is 8.5 feet northwest of the center line of the highmay, 6.7 feet southeast of the northwest edge of the highmay, near the center of the west-bound lane, in the top of a rock outcrop (a square from box has been put around the mark), and 0.9 foot under the bed of the highway. A standard disk, stamped "3003.593 L 38 1933."

M 38.-- 17.7 miles northeast of Sells, Pima County, This bench mank may be reached from the post office by going 1.5 miles east along a gravel road, thence 16.2 miles northeast along State Highway 86. It is on the old Ajo-Tucson highway, 0.1 mile northeast of a ranch house and a dirt-road intersection, 40 yards east of a corner pole guyed to the south, and 50 feet north of the center line of the highway. A standard disk, stamped "3146.582 M 38 1933" and set in the top of a concrete post projecting 8 inches above ground.

N 38.-- 18.6 miles northeast of Sells, Fima County. This beach mark may be reached from Sells by going 14.8 miles northeast along State Highway 86, thence 3.8 miles northeast along the old Alo-Tucson highway. It is 64 feet north of the center line of the highway, 24 feet south of a pole, and 36 feet south of a fence line. A standard disk, stamped "3062.937 N 38 1933" and set in the top of a concrete post projecting 8 inches above ground.

P 38.-- 20.5 miles northeast of Sells, Pims County. This bench mark may be reached from Sells by going 14.8 miles northeast along State Highway 86, thence 5.7 miles northeast along the old Ajo-Tucson highway. It is 0.3 mile southwest of a rise, and 48 feet south of the center line of the highway. A standard disk, stamped "3054.227 P 36 1937" and set in the top of a concrete post projecting 8 inches above ground.

R 38.-- 22.5 miles northeast of Sells, Pima County. This bench mark may be reached from Selis by going 14.8 miles northeast along State Highway 86, thence 7.7 miles northeast along the old Ajo-Tucson highway. It is 0.1 mile west of the junction of a dirt road leading north, 310 feet east of a double-pipe culvert with masonny headwalls, 42 feet north of the center line of the highway, and 43 feet west of a pole. A standard disk, stamped "3002.747 R 38 1933" and set in the top of a concrete post projecting 8 inches above ground.

S 38.-- 24.6 miles northeast of Sells, Pima County. This bench mark may be reached from Sells by going 14.8 miles northeast along State Highmay 86, thence 9.8 miles northeast along the old Ajo-Tucson highway. It is 0.4 mile west of Roadmide Mine, 51 feet southeast of the middle of a 4-foot pipe culvert with concrete headwalls, 27 feet south of the center line of the highway, in the top of an andesite outcrop projecting 3 inches above ground, and about 2 feet lower than the highway. A standard disk, stamped "2902.353 S 38 1933."

T 38.-- 26.5 miles northeast of Sells, Pima County. This bench mark may be reached from Sells by going 14.8 miles northeast along State Highway 86, thence 11.7 miles northeast along the old Ajo-Tucson highway. It is 1.5 miles east of Roadside Mine, 0.2 mile east of a turn in the road and the junction of a dirt road leading south, 40 feet north of the center line of the highway, and in line with a row of poles. A standard disk, stamped "2874,902 T 38 1933" and set in the top of a concrete post projecting 10 inches above ground.

U 38.-- 28.4 miles northeast along State Highway 86 from Sells, Pimma County, 0.1 mile south of a tank on the north side of the Highway, 270 feet east of the junction of a dirt road leading south to Calvillo Camp, 31 feet north of the center line of the highway, and in line with a row of poles. A standard disk, stamped "2765.631 U 38 1935" and set in the top of a concrete post projecting 8 inches above ground.

V 38.-- 30.4 miles northeast along State Highway 86 from Sells, Pima County, 28.8 miles southwest of the U.S. Veterans' Hospital at Tucson, 1.3 miles west of the boundary of an Indian reservation, 30 feet south of the center line of the highway, and in line with a row of poles. A standard disk, stamped "2689.929 38 1933" and set in the top of a concrete post projecting 10 inches above ground.

W 38.-- 26.9 miles southwest along State Highway 86 from the U.S. Veterans' Hospital at Tucson, Pina County, 205 yards southwest of the southwest corner of a concrete culvert, 232 feet south of the center line of the highway, 207 feet south of the south end of a 24-inch corrugated-metal pipe culvert, 60 feet south of the center line of the old road, 38.4 feet west of a pole, 2.3 feet east of a white wooden witness post, and about 4 feet lower than the road. A standard disk, stamped "2643,712 W 38 1933" and set in the top of a concrete post projecting 0.5 foot above ground.

3 (A.S.H.D.). -- 25.6 miles southwest along State Highway 86 from the U.S. Veterans' Hospital at Tucson, Pima County, 12 yards north of a line of poles, at a 5- by 44-foot concrete bridge, in the center of the top of the south headwall, and 16 feet south of the center line of the highway. An Arizona State Highway Department standard disk.

2 (A.S.H.D.).-- 25.0 miles southwest along State Highway 86 from the U.S. Vetersne' Hospital at Tuoson, Pima County, 13 yards northwest of a pole, at a 4 - by 10-foot concrete culvert, in the center of the top of the southeast headwall, 16 feet southeast of the center line of the highway, and level with the highway. An Arizona State Highway Department standard disk.

X 38 RESET. -- 24.9 miles southwest along State Highway 86 from the U.S. Veterans' Hospital at Tucson, Pima County, 50 feet

southeast of the center line of the highway, 3.9 feet northeast of a pole, in line with the row of poles, 3.4 feet southwest of a white wooden witness poet, and about 5 feet lower than the highway. A standard disk, stamped "X 38 RESET 1951" and set in the top of a concrete post projecting 0.5 foot above ground.

NOTE-This bench mark was established and its elevation determined by a party from this Bureau during the releveling of 1951-52.

1 (A.S.H.D.). -- 24.7 miles southwest along State Highway 86 from the U.S. Veterans' Hospital at Tucson, Pims County, 2.4 miles west of the grade school at Three Points (formerly Robles Ranch). O.2 mile west of the point where a power-transmission line crosses the highway, at a 4- by 6-foot concrete culvert, in the center of the top of the southeast headwall, 14 feet southeast of the center line of the highway, and about 1/2 foot higher than the highway. An Arizona State Highway Department standard disk.

Y 295.-- 24.0 miles southwest along State Highway 86 from the U.S. Veterans' Mospital at Tueson, Pima County, 1.7 miles west of the grade school at Three Points (formerly Robies Ranch), 150 yards west of the T-junction of a road leading north, 71 feet north of the center line of the highway, 3.5 feet east of a fence corner, 2.6 feet west of a white wooden witness post, and about 3 feet lower than the highway. A standard disk, stamped "Y 296 1951" and set in the top of a concrete post projecting 0.6 foot above ground.

Y 38 RESET. -- 23.1 miles southwest along State Highway 86 from the U.S. Veterans' Hospital at Tucson, Pima County, 0.9 mile west of Three Foints (formerly Robles Ranch) on the old Ajo-Tucson Highway, 0.7 mile east of a steel bridge, 0.1 mile east of Sawyers Ranch, 30 yards north of the center line of the highway, and 50 feet north of a row of poles. A standard diek, stamped "Y 36 RE-SET 1935" and set in the top of a concrete post. NOTE-This bench mark was established and its elevation determined by engineers of the Arizona State Highway Department in May 1936. It was not included in the releveling of 1951-52.

X 296.- 23.1 miles southwest along State Highway 86 from the U.S. Veterans' Rospital at Tucson, Pima County, 0.9 mile west of the grade school at Three Foline (formerly Robies Ranch), 51.5 feet north of the center line of the highway, 25 feet west of the southwest corner of a wooden fence around the Sawyers Ranch house, 3.5 feet west of a pole, 2 feet east of a white wooden withess post, and about 2 feet lower than the road. A standard disk, stamped "X 296 1951" and set in the top of a concrete post projecting 0.5 foot above ground.

268+15 (A.S.H.D.) -- 22.4 miles southwest along State Highway 86 from the U.S. Veterans' Rospital at Tucson, Pima County, O.5 mile west of the grade school at Three Points (formerly Robles Ranch), 17 yards south of a line of poles and an east-and-west fence line, at a 4-by 5-foot concrete culvert, in the center of the top of the north headwall, 14 feet morthwest of the center line of the highway, and level with the highway. An Arizona State Highway Department standard disk, stamped "268+15 2531,32".

A 113.-- 22.0 miles southwest along State Highway 86 from the U.S. Veterans' Hospital at Tucson, Pima County, at Three Points (formerly Robles Ranch), O.1 mile east of the grade school, 94 feet northwest of the center line of the highway, 51.8 feet northeast of the northeast corner of a Gulf service station, 2.5 feet east of a white wooden witness post, and about 1 foot lower than the highway. A standard disk, stamped "A 113 1935" and set in the top of a concrete post projecting 0.4 foot above ground.

R.M. 1 A 113. -- 52.8 fest northeast of bench mark A 113 described above, 91 feet northwest of the center line of the highway, and about 1/2 foot lower than the highway. A standard reference-mark disk, stamped "BM A 113 NO 1 1956" and set in the top of a concrete post projecting 0.2 foot above ground.

R.M. 2 A 113.-- 40.7 feet southeast of bench mark A 113 described above, 56.2 feet east of the southeast corner of the dult service station, 53.5 feet northwest of the center line of the highway, 13.9 feet west of the flood-light pole at the service station, and about 1/2 foot lower than the highway. A standard reference-mark disk, stamped "BM A 113 NO 2 1936" and set in the top of a concrete post projecting 0.8 foot above ground.

343414 (A.S.H.D.). - 21.1 miles southwest along State Highway 86 from the U.S. Veterans' Hospital at Tuoson, Pima County, 1.0 mile east of Three Points (formerly Robles Ranch), 0.2 mile southwest of the Y-junction of power-transmission lines, 23 yards southeast of a power-transmission line, 11 yards southeast of a telephone line, at a 4- by 8-foot concrete culvert, in the center of the top of the northwest headwall, 14 feet northwest of the center line of the highway and level with the highway. An Arizona State Highway Department standard disk, stamped "343+14 2535.70."

2 38 RESET. - 21.0 miles southwest along State Highway 86 from the U.S. Veterans' Hospital at Tucson, Pima County, 0.2 mile southwest of the Y-junction of power-transmission lines, 181 feet northeast of the northeast corner of a 4- by 8-foot concrete culvert, 49 feet northeast of the center line of the highway, 36.5 feet northeast of a pole, in line with the row of poles, and 2.7 feet northeast of a white wooden witness post. A standard disk, atamped "2 38 RESET 1935" and set in the top of a concrete post projecting 0.2 foot above ground.

NOTE--This bench mark was established by engineers of the Arizona State Highway Department in May 1936. Its elevation is derived from the releveling of 1951-52.

367499.25 (A.S.H.D.).-- 20.6 miles southwest along State Highway 86 from the U.S. Veterane' Hospital at Tucson, Pima County, 23 yards southeast of a power-transmission line, Il yards southeast of a telephone line, at a 6- by 24-foot concrete culvert, in the center of the top of the northwest headwall, 14 feet northwest of the center line of the highway, and level with the highway. An Arizona State Highway Department standard disk, stamped "367+99.25 2533.49."

395+86.67 (A.S.H.D.), -- 20.0 miles southwest along State Highway 86 from the U.S. Veterans' Hospital at Tucson, Pima County, 25 yards southeast of a power-transmission line, Il Yards southeast of a telephone line, at a 4- by 50-foot concrete culvert, in the center of the top of the northwest headwall, 14 feet northwest of the center line of the highway, and about 1/2 foot lower than the highway. An Arizona State Highway Department standard disk, stumped "395+85.67 2524.75. the highway. An Arizona St stamped "395+86.67 2524.75.

405+35 (A.S.H.D.).-- 19.8 miles southwest along State Highway 86 from the U.S. Veterans' Hospital at Tucson, Pima County, 23 yards southe.st of a power-transmission line, 11 yards southeest of a telephone line, at a 4- by 18-foot concrets culvert, in the center of the top of the north headwall, 14 feet north of the center line of the highway, and level with the highway. An Arizona State Highway Department standard disk, stamped "405+35" 2523.14."

443+83 (A.S.H.D.). -- 19.1 miles southwest along State Highway 86 from the U.S. Veterans' Hospital at Tucson, Pima County, 2; yards southeast of a power-transmission line, Il yards southeast of a telephone line, at a 4 by 18-foot concrete culvert, in the center of the top of the northwest headwall, 14 feet northwest of the center line of the highway, and level with the highway. An Arizona State Highway Department standard disk, stamped "143+83 2510.01."

A 39 RESET. -- 19.0 miles southwest along State Highway 86 from the U.S. Veterans' Hospital at Tucson, Pima County, O.1 mile northeast of the junction of a dirt road leading north, 91 feet northwest of the center line of the highway, 89 feet northeast of a pole, 9 feet northwest of a power-transmission line, 3.1 feet east of a white wooden witness post, and about 1 foot lower than the highway. A standard disk, stamped "A 39 RESET 1935" and set in the top of a concrete post projecting 0.5 foot above ground. NOVE--This bench mark was established by engineers of the Arizona State Highway Department in May 1936. Its elevation is derived from the releveling of 1951-52.

465+40.25 (A.S.H.D.).-- 18.7 miles southwest along State Highway 86 from the U.S. Veterans' Hospital at Tucson, Pima County, 24 yards south of a power-transmission line pole, Il yards southeast of a telephone line, at a 5- by 24-foot concrete culvert, in the center of the top of the north headwall, 14 feet north of the center line of the highway, and level with the highway. An Arizona State Highway Department standard disk, stamped "465+40.25 2502.11."

491+31.25 (A.S.H.D.).-- 18.2 miles southwest along State Highway 86 from the U.S. Veterans' Hospital at Tucson, Fima County, at a 6- by 24-foot concrete culvert, in the center of the top of the north headwall, 14 feet northwest of the center line of the highway, and level with the highway. An Arizona State Highway Department standard disk, stamped "491+31.25 2491.95."

540+60 (A.S.H.D.).-- 17.2 miles southwest along State Highway 86 from the U.S. Veterans' Hospital at Tuoson, Pima County, 11 yards southeast of a telephone line, at a 6-by 16-foot concrete culvert, in the center of the top of the northwest headwall, 14 feet northwest of the center line of the highway, and about 1/2 foot lower than the highway. An Arizona State Highway Department standard disk, stamped "430+60 2475.61."

549+60 (A.S.H.D.),-- 17.1 miles southwest along State Highway 86 from the U.S. Veterans' Hospital at <u>Tucson</u>, Pima County, 11 yards southeast of a telephone line, at a 6-by 8-foot concrete culvert, in the center of the top of the northwest headwall, 14 feet northwest of the center line of the highway, and about 1/2 foot higher than the highway. An Arizona State Highway Department standard disk, stamped "549+60 2472.92."

B 39 RESET.-- 17.0 miles southwest along State Highway 86 from the U.S. Veterans' Hospital at Tucson, Pima County, 1.2 miles southwest of a cattle guard across the highway, 220 feet west of a 56-inch metal-pipe culvert with concrete headwalls, 88 feet northwest of the center line of the highway, 69.5 feet northeast of a pole, 3.2 feet northeast of a white wooden witness post, and about 1-1/2 feet lower than the highway. A standard disk, stamped "B 39 RESET 1955" and set in the top of a concrete post projecting 0.6 foot above ground.

NOTE--This bench mark was established by engineers of the Arlzona State Highway Department in May 1936. Its elevation is derived from the releveling of 1951-52.

562+40 (A.S.H.D.).-- 16.8 miles southwest along State Highway 86 from the U.S. Veterans! Hospital at Tucson, Fima County, 1.0 mile southwest of a cattle guard across the highway, 11 yards south of a telephone line, at a 6- by 8-foot concrete culvert, in the center of the top of the northwest headwall, 14 feet northwest of the center line of the highway, and level with the highway. An Arlzona State Highway Department standard disk, stamped "562+40 2469.76."

594+10 (A.S.H.D.).-- 16.2 miles southwest along State Highway 86 from the U.S. Veterans' Hospital at Tucson, Fima County. 0.4 mile southwest of a cattle guard across the Righway, 20 yards northwest of a pole, at a 6 - by 8-foot concrete culvert, in the center of the top of the northwest headwall, 14 feet northwest of the center line of the highway, and about 1 foot higher than the highway. An Arizona State Highway Department standard disk, stamped "594+10 2460.39."

607+00 (A.S.H.D.).-- 16.0 miles southwest along State Highway 86 from the U.S. Veterans' Hospital at Tucson, Pima County, 3.5 miles southwest of the main entrance to Ryan Airport, 0.1 mile southwest of a cattle guard across the highway, at a 6-by 6-foot concrete culvert, in the center of the top of the northwest headwall, 14 feet northwest of the center line of the highway, and about 1/2 foot higher than the highway. An Arizona State Highway Department atandard disk, stamped "607+00 2455.56."

EFS No. 129.-- 15.9 miles southwest along State Highway 86 from the U.S. Veterans' Hospital at <u>Tucson</u>, center line of the highway at the middle of a cattle guard.

631+07 (A.S.H.D.).-- 15.5 miles southwest along State High-way 86 from the U.S. Veterans' Hospital at Tueson, Fims County, 2.8 miles southwest of the main entrance to Hyan Airport, 75 yards northeast of a gate in a fence and a track road leading northwest, at a 4- by 8-foot concrete culvert, in the center of the top of the northwest headwall, 14 feet northwest of the center line of the highway, and about 1/2 foot higher than the highway. An Arizona State Highway Department standard disk, stamped "651+072449.64."

649+60 (A.S.H.D.).- 15.2 miles southwest along State Highway 86 from the U.S. Veterans' Hospital at Tuckin, Fina County, 2.5 miles southwest of the main entrance to Ryan Airport, 23 yards north of a pole, at a 6- by 6-foot concrets culvert, in the center of the top of the northwest headwall, 14 feet northwest of the center line of the highway, and about 1/2 foot higher than the highway. An Arizona State Highway Department standard disk, stamped "649+60 2444.53."

654+55 (A.S.H.D.).-- 15.1 miles southwest sions State Highway 86 from the U.S. Veterans' Hospital at Tueson, rima County, at a 4- by 12-foot concrete culvert, in the center of the top of the north headwall, 14 feet north of the center line of the highway, and level with the highway, and rivona State Highway Department standard disk, stamped "654+55 2441.91."

C 39.HESET.-- 15.0 miles southwest along State Highway 86 from the U.S. Veterans' Hospital at Turnon, Pima County, 2.3 miles southwest of the main entrance to Pyman Alroort, 100.5 feet northwest of the center line of the nighway, 50 feet northwest of the center line of the nighway, 50 feet northwest of a doout 1-1/2 feet lower than the highway. A standard disk, stamped "C 39 RESET 1935" and set in the top of a concrete post projecting 0.4 foot above ground.

NOTE--This bench mark was established by engineers of the Artzona State Highway Department in October 1935. Its elevation is derived from the releveling of 1951-52.

667+05 (A.S.H.D.).-- 14.8 miles southwest along State Highway 86 from the U.S. Veterans' Hospital at Tucson, Pima County, 2.1 miles southwest of the main entrance to Ryan Airport, 12 yards southeast of the right-of-way fence, at a 4-by 12-foot concrete-box culvert, in the center of the top of the northwest headwall, 13.5 feet northwest of the center line of the highway, and level with the highway. An Arizona State Highway Department standard disk, stamped "667+05 2438.56."

701+95 (A.S.H.D.).-- 14.1 miles southwest along State Highway 86 from the U.S. Veterans' Hospital at Tueson, Fima County, 1.4 miles southwest of the main entrance to Ryan Airrort, 28 yards west of pole 1170, ata 4 + by 6-foot concrete-box culvert, in the center of the top of the northwest headwall, 13.5 feet northwest of the center line of the highway, and about 1/2 foot higher than the highway. An Arizona State Highway Department standard disk, stamped "701+95 2431.58."

713.45 (A.S.H.D.).-- 13.9 miles southwest along State Highway 86 from the U.S. Veterans' Hospital at Tucson, Pims County, 1.2 miles southwest of the main entrance to Kysn Airport, at a 4-by 6-foot concrete-box culvert, in the center of the top of the northwest neadwall, 13.5 feet northwest of the center line of the Highway, and about 1/2 foot higher than the highway. An Arizona State Highway Department standard disk, stamped "713.45 2430.01."

EFS No. 135.-- 13.9 miles southwest along State Highway 86 from the U.S. Veterans' Hospital at <u>Tucson</u>, center line of the highway at the T-junction of a dirt <u>road leading</u> north.

D 296.-- 13.6 miles southwest along State Highway 86 from the U.S. Veterans' Hospital at Tucson, Pima County, 0.9 mile southwest of the main entrance to Nyan Alroprt, at the T-junction of a sandy dirt road leading north, 50 feet southeast of the center of the junction, 47 feet southeast of the center line of the highway, 52.9 feet northwest of a fence, 18.7 feet northeast of pole 1185, 2.2 feet northeast of a white wooden witness post, and about 1 foot lower than the highway. A standard disk, stamped "D 296 1951" and set in the top of a concrete post projecting 0.9 foot above ground.

EFS No. 130.-- 13.6 miles southwest along State Highway 86 from the U.S. Veterans' Hospital at <u>Tucson</u>, center line of the highway at the T-junction of a sandy <u>dirt</u> road leading north.

For additional bench marks in this locality, see "Silver Bell Area, Arizona--Line 23 (51 Ariz.)."

D 39 RESET.-- 13.0 miles southwest along State Highway 86 from the U.S. Veterans' Hospital at Tucson, Pima County, 0.6 mile west of an abandoned service station (In 1935), 500 feet west of a concrete culvert, 81 feet north of the center line of the highway, and 50 feet north of a row of poles. A standard disk, stamped "D 39 RESET 1935" and set in the top of a concrete post. NOTE.-This bench mark was established and its elevation determined by engineers of the Arizona State Highway Department in September 1935. It was not included in the releveling of 1951-52.

C 296.-- 12.7 miles southwest along State Highway 86 from the U.S. Veterans' Hospital at Tucson, Pima County, across the highway from the main entrance to Ryan Airport, 108 feet southwest across the highway from the center of the T-junction of the drive to the airport, 47.5 feet southeast of the center line of the highway, 30.5 feet northwest of a power-transmission line pole, 19 feet southwast of a telephone pole, 2.4 feet northeast of a white wooden witness post, and about 2 feet higher than the highway. A standard disk, stamped "C 296 1951" and set in the top of a concrete post projecting 0.3 foot above ground.

EFS No. 132.-- 12.7 miles southwest along State Highway 86 from the U.S. Veterans' Hospital at Tucson, at Hyan Airport, center line of the highway at the T-junction of the citrance line.

#### UNITED STATES COAST AND GEODETIC SURVEY Second-order leveling

#### Spur line through Ryan Airport

V 296.-- 12.7 miles southwest along State Highway 86 from the U.S. Veterans' Hospital at Tucson, Pima County, thence 0.2 mile northwest along the entrance drive; at Ryan Airport, 99 feet southeast of the southwest corner of the west hangar (With a control tower), 45 feet north of a covered water reservoir, at the high-pressure water tank, in the east end of the north face of the north foundation, 0.7 foot west of the northeast corner of the foundation, and 0.7 foot above the ground. A standard disk, stamped "V 296 1951" and set vertically.

U 296. -- At Ryan Airport, Pima County, 0.3 mile northwest of the entrance, 130 yards northwest of the northwest corner of the west hangar (with a control tower), 123 feet northwest of the northwest of the northwest or the apron, and 2.1 feet east of a white wooden witness post. A standard disk, stamped "U 296 1951" and set in the top of a concrete post projecting 0.7 foot above ground.

T 296.-- At Ryan Airport, Fima County, at the northeast corner of the field, 0.6 mile northeast of the main control tower, 161 feet north of the northeast corner of the east one of two north-and-south runways, 4.4 feet east of a white wooden witness post, and level with the runway. A standard disk, stamped "T 296 1951" and set in the top of a concrete post projecting 0.4 foot above ground.

EFS No. 131.-- Ryan Airport, high point, 100 yards weat of the west end of the weat hangar, and at the center of the south end of the west one of two north-and-south runways.

## End of the spur line.

795+00 (A.S.H.D.).-- 12.3 miles southwest along State Highway 86 from the U.S. Veterans' Hospital at Tucson, Pima County, 0.4 mile northeast of the main entrance to Ryan Airport, 36.9 feet southeast of a northwest-and-southeast fence, at a 12- by 5-foot concrete culvert, in the center of the top of the northwest headwall, 13.5 feet northwest of the center line of the highway, and about 1/2 foot higher than the highway. An Arizona State Highway Department standard disk, stamped "795+00 2425.42."

B 296.-- 12.0 miles southwest along State Highway 86 from the U.S. Veterans' Hospital at Tucson, Plma County, 1.4 miles southwest of the Y-junction of a road leading to Rancho Diablo, 0.7 mile northess of the main entrance to Ryan Airport, 180 feet southwest of the center of a dip in the highway, 100 feet southeast of the center line of the highway, 89 feet southeast of a pole, 6.6 feet east of a white wooden witness post, 1.8 feet northeast of a fence, and about 1-1/2 feet lower than the highway. A standard disk, stamped "B 296 1951" and set in the top of a concrete post projecting 0.4 foot above ground.

E 39 RESET.-- 11.0 miles southwest along State Highway 86 from the U.S. Veterans Hospital at Tucson, Pima County, 1.7 miles northeast of the main entrance to Ryan Airport, 0.4 mile southwest of the Y-junction of a road leading to Rancho Diablo, at the point where power-transmission lines to Rancho Diablo cross the highway, 167.5 feet southwest of the southwest corner of a concrete culvert, 51 feet northwest of the center line of the highway, 2.4 feet southeast of a power-transmission line pole, 2.5 feet northeast of a white wooden witness post, and about 4 feet lower than the highway. A standard disk, stamped "2423.194 E 39 1933 RESET 1951" and set in the top of a concrete post projecting 0.5 foot above ground. NOTE--This bench mark was established and its elevation determined by a party from this Bureau during the releveling of 1951-52.

913+52 (A.S.H.D.). -- 11.0 miles southwest along State Highway 86 from the U.S. Veterans' Hospital at Tucson, Pima County, 1.7 miles northeast of the main entrance to Ryan Airport, 0.4 mile southwest of the Y-junction of a road leading to Rancho Diablo, 62 yards northeast of the point where a power-transmission line crosses the highway, at a 17- by 8-foot concrete culvert, in the center of the top of the northwest headwall, 15.5 feet northwest of the center line of the highway, and level with the highway. An Arizona State Highway Department standard disk, stamped 913+52 2427.00."

EFS No. 133.-- 10.6 miles southwest along State Highway 86 from the U.S. Veterans' Hospital at Tucson, center line of the highway at the Y-junction of a dirt-road leading north to Rancho Diablo.

A 296.-- 10.0 miles southwest along State Highway 86 from the U.S. Veterans' Hospital at Tucson, Pima County, 0.8 mile southwest of the crossing of the EI Faso Natural Gas line, 0.4 mile northeast of the Y-junction of a dirt road leading north to Rancho Diablo, 58 feet southeast of the center line of the highway, 8.8 feet northeast of a pole, and 2.6 feet southwest of a white wooden witness post. A standard disk, stamped "A 296 1951 and set in the top of a concrete post projecting 0.4 foot above ground.

EFS No. 134.-- 9.2 miles southwest along State Highway 86 from the U.S. Veterans' Hospital at Tucson, center line of the highway at the intersection of a private road along the El Paso Natural Gas line.

F 39.-- 8.9 miles southwest slong State Highway 86 from the U.S. Veterans' Hospital at Tucson, Pima County, 1.7 miles northeast of the Y-junction of a dirt road leading north to Rancho Diablo, 0.5 mile east of the torossing of the El Paso Natural Gas line, 90 yards north of the north base of Snyders Butte, 72 feet south of the center line of the highway, 27 feet south of the intersection of a power-transmission line and telephone line, in the top of a 2- by %-foot lave outrop projecting 0.2 foot above ground, and about 2 feet lower than the highway. A standard disk, stamped "2480.500 F 39 1933."

Snyder Hill (Ariz.Geod.S.). -- 8.9 miles southwest along State Highway 86 from the U.S. Veterans' Hospital at Tuuson, Pima County, 1.7 miles northeast of the Y-junction of a dirt road leading north to Rancho Diablo, 0.3 mile east of the crossing of the El Paso Natural Gas line, 250 yards south of the center line of the highway, on the top of a long hill known as Snyder Hill, and in the top of a 2- by 2-foot rock outcrop projecting 0.4 foot above ground. A State Survey standard disk.

R.M. 1 Snyder Hill (Ariz.Geod.S.). -- 57 feet north of tri-angulation station Snyder Hill described above, on the top of Snyder Hill, in the top of a rock outcrop, and about 10 feet lower than the top of the hill. A standard reference-mark disk, stamped "SNYDER HILL NO. 1 1935."

R.M. 2 Snyder Hill (Ariz.Geod.S.).-- 33.1 feet east of tri-angulation Snyder Hill described above, near the top of Snyder Hill, in the top of a rock outcrop projecting 0.5 foot above ground, and about 4 feet lower than the top of the hill. A stand-ard reference-mark disk, stamped "SNYDER HILL NO. 2 1935."

Azimuth mark Snyder Hill (Ariz.Geod.S.). -- 8.9 miles southwest along State Highway 86 from the U.S. Veterans' Hospital at Tucson, Pima County, 1.7 miles northeast of the Y-junction of a road leading north to Rancho Diablo, 0.5 mile east of the crossing of the El Paso Natural Gas line, 400 yards south of the highway, 150 yards south of triangulation station Snyder Hill described above, on the highest point of the south end of the ridge of Snyder Hill, in the top of a rock outerop, and about 20 feet lower than the top of the hill. A State Survey standard disk, stamped "SNYDER HILL AZI NO 3 1935."

W 296.-- 8.0 miles southwest along State Highway 86 from the U.S. Veterans' Hospital at Tucson, Pima County, 1.7 miles southwest of the T-junction of Kinney Road, 0.9 mile northeast of Snyder Hill, 67 feet southeast of the center line of the highway, 52 feet north of a cactus stump, 27 feet south of a pole, 23 feet southeast of a drainage ditch, 2.1 feet northeast of a white wooden witness post, and about 1-1/2 feet lower than the highway. A standard disk, stamped "W 295 1951" and set in the top of a concrete post projecting 0.4 foot above ground.

0 39.-- 7.0 miles west along State Highway 86 from the U.S. Veterans' Hospital at Tucson, Plma County, 0.7 mile west of the T-janction of Kinney Road leading northwest, 0.1 mile east of a wash, 650 feet east of a dip, 208.6 feet southeast of a caution sign DIP, 90.5 feet south of the center line of the highway, 49.6 feet southeast of a pole, and about 2 feet lower than the highway. A standard disk, stamped "255%,726 G 39 1933" and set in the top of a concrete post projecting 0.5 foot above ground.

R 112 RESET. -- 6.2 miles west along State Highway 86 from the U.S. Veterans' Hospital at Tucson, Pims County, at the Junction of Kinney Road leading northwest, 81.5 fest northwest of the center line of the highway, 48.5 fest southwest of the center line of Kinney Road, 66 fest northwest of a power-transmission line pole, 2.5 feet north of a white wooden witness post, and about 1 foot lower than the highway. A standard disk, stamped "R 112 1935 RESET 1951" and set in the top of a concrete post projecting 0.4 foot above ground.

NOTE--This bench mark was established and its elevation determined by a party from this Bureau during the relevaling of 1951-52.

For additional bench marks in this locality, see "Silver Bell Area, Arizona--Line 27 (51 Ariz.)."

1218+10 (A.S.H.D.).-- 5.1 miles went along State Highway 86 from the U.S. Veterans' Hospital at Tucson, Pima County, 1.0 mile east of the junction of Kinney Road leading northwest, at the T-junction of a gravel road leading north, 27 feet northeast of the center of the junction, 14 feet north of the center line of the highway, at a 3-1/2-b y 5-foot concrete-box culvert under the highway, in the center of the top of the north concrete headwall, so that the highway. An Arizons State Highway Department and disk, stamped "1218+10 2647.70."

H 39.-- 4.8 miles west along State Highway 86 c. Veterans' Hospital at Tucson, Pima County, at the Pass, on the inside of a wide curve, 124.6 feet at the T-junction of a gravel road leading of the center line of the gravel road. line of the highway, in the top of the country of the highway. A standard disk.

J 39.-- 3.0 miles we Veterana' Hospital at Tur-intersection of Mission north of the center chert outcrop, and stamped "2501.776

For additi

K 39.-city hall , section of concrete ter 11, 1933, abov

Avenus, 8.1 feet south of pole 142-A/I, and 1.2 feet east of a concrete wall in front of a house. A standard disk, stamped "2354.146 L 39 1933" and set in the top of a concrete post flush with the ground.

TUCSON. -- At Tucson, Pima County, in a small park west of the city hall, 153.8 feet west of the base of the steps at the west entrance to the city hall, 38.8 feet south of the south edge of the sidewalk on Alameda Street, 37.6 feet east of the east edge of the sidewalk on Main Street, and 36 feet north of the north edge of the sidewalk on Ott Street. A standard disk, stamped "2362.151 TUCSON 1935" and set in the top of a concrete syramid frustum with a 12-inch square top and projecting 3 inches above ground.

For additional bench marks in the vicinity of Tucson, see "Globe to Tucson, Arizona (16 Ariz.)," "Yuma, Ariz., to Deming, N.Mex. (66 Ariz.)," and "Tucson to Nogales, Arizona (78 Ariz.)."

End of the line.

riz.)," "Yuma, Ariz., to beming, n to Nogales, Arizona (78 Ariz.)."

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