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McDowell Project Master in ARIZONA 165 - Book: PH 930 Florence "B" Project Master in ARIZONA 119 - Book: PH 1100

Pinal County

FRASER (C&GS)

1927 N.A.D.

USC&GS, 1938

R.G. Thompson, 1946

Books? PH 2, PH 1100

D.J. Faulkender, 1965

Described in U. S. Coast and Geodetic Survey Description List 331112 station 1007.

Reached by helicopter.

ARIZONA ZONE EAST

ARIZONA ZONE CENTRAL V.A. Elevation: 4617.5 ft.

X = 172,328.43Y= 867,110.12 *X= 706,547.91

Y= 866,092.36

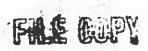
 $^{+}\Delta \alpha = +0^{\circ}22'20''$

*Latitude 33°22'44.661"

Longitude 111°14'24.179"

To Station	Azimuth	Back Azimuth	Feet
Dromedary (C&GS) Millsite CC 18/10E Superstition (USGS) Circle (C&GS) Black Cross (C&GS) Is Barge Iron Mtn Trail Kings Crown Whiteford Apache Picket Post (C&GS) Summit	5°00'15.17" 19 14 00.54 89 55 22.09 103 24 32.11 118 42 23.87 169 22 42.14 182 11 28.22 227 46 32.20 250 24 23.58 288 24 34.71 297 08 38.49 307 42 40.81 330 21 42.04 356 21 22.96	184°59'49.24" 199 13 23.33 269 50 59.71 283 19 15.02 298 40 01.98 349 21 40.65 2 11 33.59 47 48 51.78 70 27 14.13 108 30 10.56 117 11 51.01 127 48 34.47 150 24 25.97 176 21 37.97	\$5,963.41 17,427.85 40,443.41 50,206.71 24,916.18 51,244.61 21,616.07 29,016.23 27,886.87 54,624.90 33,382.51 69,105.32 51,250.36 36,481.39

NAD 83 VALUES AVAILABLE



*= Values by USCAGS

3/27/69 cjl v

Gila County

HORRELL

1927 N.A.D. (Adj.)

B.H. Yoakum, 1944 R.G. Thompson, 1946

Books: IPH 2, H 160

Located about 2.0 mi. NW. of Horrell Ranch house, on W. side of Pinto Creek; about 0.5 mi. N. of main wash, which empties into Pinto Creek opposite Horrell's; near S. end of highest part of rounded ridge, which runs in N.-S. direction, 168.6 ft. N. of gatepost at angle in fence, 37 ft. E. of fence line at right angle, in midst of numerous small limestone outcrop.

To reach from the Horrell Ranch house, go through corral and across Pinto Creek, thence up a main wash for 1.9 mi. to a prominent rocky point between drain forks, at S. end of a rounded ridge; leave truck and climb about 0.5 mi. up ridge (N.) to highest part and station.

Station mark: Standard tablet stamped "HORRELL 1946" cemented in rock flush with ground.

Reference mark No. 1: Cross chiseled in rock outcrop is 10.1 ft. from station mark in azimuth 131°06'.

Reference mark No. 2: Cross chiseled in rock outcrop is 11.35 ft. from station mark in azimuth 284°41'.

ARIZONA ZONE CENTRAL

ARIZONA ZONE EAST V.A. Elevation: 3835 ft.

X = 774,013.13Y = 906,322.68 X = 240.463.33Y = 906,200.68

Intitude 33°29'17.627"

Longitude 111°01'04.536"

To Station	Agimuth	Back Azimuth	Feet
Gov't Hill Pinto Mound Mtn Pine Granite Mtn Barnes Webster (USGS) Cone Carlota Hutton	36°14'34.85" 72 33 28.95 81 09 56.02 96 23 58.21 131 41 32.86 285 32 58.93 299 52 47.28 325 41 48.28 349 43 24.30 352 29 33.39	216°12'10.29" 252 30 10.12 261 05 58.80 276 20 51.76 311 40 06.97 105 34 47.25 119 55 10.85 145 43 19.77 169 44 02.92 172 30 23.26	37,610.00 32,012.08 36,865.40 28,794.47 17,641.74 17,264.33 25,437.53 24,957.21 33,306.38 58,832.37

NAD 83 VALUES AVAILABLE

FILE COPY

3/27/69 cji

Pinal County

PICKETT POST (C&GS)

1927 N.A.D.

USC&GS, 1936

Books: PH 2, PH 910

R.G. Thompson, 1946 V. Jackson, 1963

Described in U. S. Coast and Geodetic Survey Description List 331112 station 1016.

ARIZONA ZONE EAST

ARIZONA ZONE CENTRAL

*V.A. Elevation: 4376 ft.

*X= 197,213.51 Y = 822,306.09 *X = 732,179.66Y= 3821,714.69

(Checked, 1963)

*Iatitude 33°15'23.845"

Longitude 111°09'25.736"

Dromedary (C&GS) 87°37'13.12" 267°34'03.58'	
Summit 109 30 31.54 289 28 02.81 Trail 181 01 53.67 1 01 59.96 Whitford 188 30 27.69 8 30 56.06 Kings Crown 224 11 01.10 44 13 52.58 Hutton 242 38 22.56 62 43 47.40 Madera 250 53 01.51 71 02 29.35 Pinal (C&GS) 264 43 25.38 84 54 30.19 Apache 265 36 38.53 85 39 47.94 BM 3761 302 22 58.66 122 26 16.30 Lime Point 305 38 59.47 125 42 07.56 Granite Mtn (C&GS) 310 34 22.88 130 38 40.98 Ajax 342 43 58.64 162 44 54.31	24,421.65 53,904.65 29,637.57 38,031.64 56,540.15 92,874.06 103,324.09 29,412.93

NAD 83 VALUES AVAILABLE



3/26/69 cjl

Pinal County

APACHE

1927 N.A.D. (Adj.)

R.G. Thompson, 1946 J.P. Ryan, 1963

Books: PH 2, PH 910

Located about 2.0 mi. (airline) SE. of Superior; on southern and highest point of rocky spine, locally known as "The Apache Leap".

To reach from Superior drive S. on Ray Highway for 1.95 mi.; turn left (E.) for 1.2 mi. to Grand Pacific Ore chute; leave truck and proceed E. up ridge to summit; turn right (SE.) and proceed over low saddle around rocky point into second saddle; climb S. to highest point on summit and station site. (Large rock outcropping on western edge of summit.)

Station mark: A standard tablet stamped "APACHE 1946 VA 4865" cemented in rock outcrop.

Reference mark No. 1: Standard reference mark tablet, stamped "NO 1", cemented in boulder flush with ground, 40.5 ft. from station mark in azimuth 356°31'.

Reference mark No. 2: Standard reference mark tablet, stamped "NO 2", cemented in boulder, 36.8 ft. from station mark in azimuth 283°33'.

ARIZONA ZONE EAST ARIZONA ZONE CENTRAL V.A. Elevation: 4875 ft. X= 226,560.05 X= 761,488.31 (Checked, 1963) Y= 824,178.81

Latitude 33°15'45.983"

Longitude 111°03'40.377"

To Station	Azimuth	Back Azimuth	Feet
Lime Point Grayback Ajax Picket Post (C&GS) Whitford Kings Crown EM'"Y 1107" Pinal (C&GS) Hagen Granite Mtn (C&GS) HM 3761 (USGS) Hutton	00°26'34.41" 9 22 45.50 34 36 38.67 85 39 47.94 137 23 07.25 173 37 19.82 202 19 12.31 264 25 24.20 288 04 04.00 343 41 14.19 356 34 19.86 221 24 14.21	180°26'33.25" 189 21 33.56 214 34 25.13 265 36 38.53 317 20 26.01 353 37 01.72 22 20 03.01 84 33 19.60 108 07 13.73 163 42 23.13 176 34 28.24 41 26 29.49	23,172.81 68,647.70 36,473.83 29,412.93 36,801.74 25,180.22 20,643.54 73,916.09 30,916.82 38,098.64 21,726.65 31,616.97

NAD 83 VALUES AVAILABLE

3/28/69 ejl

Pinal County

BM "Y 107 1935"

1927 N.A.D. (Adj.)

R.G. Thompson, 1946 K.B. Miller, 1963

Books: PH 2, PH 910

Described in U. S. Coast and Geodetic Survey Arizona level line No. 55 as follow:

5.9 mi. NE. along U. S. Highway 60 from Superior, Pinal County, O.1 mi. NE. of the junction of a rd. leading S., at the top of a grade sloping NE., 100 ft. NE. of a wire fence at a cattleguard, 62 ft. SE. of the centerline of the highway, in the top of a large rock outcrop, and about 6 ft. above the level of the highway. A standard disk, stamped "Y 107 1935".

Note by K.B. Miller, 1963: Station mark is about 200 ft. SE. of centerline of highway; about 90 ft. NE. of concrete picnic table at roadside stop; in top of a large rock outcrop, and about 10 ft. higher than highway.

ARIZONA ZONE EAST X= 234,563.30 Y= 843,307.57 ARIZONA ZONE CENTRAL X= 769,171.41

Y= 843,338.90

AL Elevation: 4156.560 ft. (Second order levels by C&GS Arizona line 55)

Intitude 33°18'54.914"

Longitude 111°02'07.995"

To Station	Azimuth	Back Azimuth	Feet
Apachê	22°20'03.01"	202°19'12.31"	20,643.54
Kings Crown	119 08 33.72	299 07 24.86	12,177.20
Hutton	250 33 17.87	70 34 42.50	13,862.11

NAD 83 VALUES AVAILABLE

file copy

3/28/69 cjl

1927 N.A.D. (Adj.)

R.G. Thompson, 1946

Book: PH 2

Located about 1.5 mi. (airline) S. of Miles Ranch; on highest of three points on rocky ridge running N.-S.

To reach from Miles Ranch follow Rock Creek Trail to Bull Basin Trail; proceed up Bull Basin Trail to corral; thence follow up main canyon to saddle on E.-W. ridge; proceed W. and N. around first point on N.-S. ridge to second; thence climb to summit to large rock outcropping at crest and station site. A 3 1/2 hours pack with horses.

Station mark: Standard tablet, stamped "GOV'T HILL 1946", cemented in rock outcrop.

Reference mark No. 1: Cross on rock, 9.4 ft. from station mark in azimuth 154°29'.

Reference mark No. 2: Cross on rock, 29.5 ft. from station mark in azimuth 265°48'.

ARIZONA ZONE EAST ARIZONA ZONE CENTRAL V.A. Elevation: 5500.6 ft. X=217,980.59 X= 752,041.22 X= 875,899.10

Iatitude 33°24'17.449"

Longitude 111°05'26.812"

To Station	Azimuth	Back Azimuth	Feet
Whiteford Trail Iron Mtn Mound Mtn Pinto Pine Granite Mtn Horrell Hutton Kings Crown	32°50'05.08" 89 54 18.97 112 49 21.21 150 02 58.01 158 08 07.90 169 11 28.04 192 07 00.71 216 12 10.29 313 03 14.80 346 50 39.62	212°48'22.09" 269 52 13.74 292 46 44.88 330 01 25.58 338 07 13.80 349 10 46.36 12 07 59.54 36 14 34.85 133 06 28.87 166 51 20.02	29,299.47 19,285.23 26,098.96 28,462.30 22,338.87 34,143.82 43,031.49 37,610.00 40,976.23 27,390.02

NAD 83 VALUES AVAILABLE

FILE COPY

3/27/69 oj1

Base: C. & G. S. Stations, Graham - Line

HEWITT RIDGE

ARIZ. 165

Pinal County, Arisons /65

C LOOL

Occupied by A. H. Schadler - 1985

On point of ridge between Hewitt and Willsite Canyon.

Take county road from Thompsons Arburetum westerly five miles; thence, up Hewitt Canyon 4 miles. About 1 mile walk up rockyridge.

Station Mark: Standard U. S. Dept. of Agri. tablet in ledge rock.

Signal:

Datum: N. A. 1927

NAD 83 VALUES AVAILABLE

Latitude 33	o ,	02.87	,	Longitude	111	l 13	13.24]
To Station		Azimuth		Bac	k Azir	nuth	Dist	ance
	0		"	0	,	**	Log Meters	Miles
Comet Kings Crown	35 278	19 40	27 .40 33.32	21.5 98	17 45	52.37 30.10	3.8887697 4.1500359	4.810 8.778
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				FILE	<u>en</u>	PY		
		7,			00	u u		
(OAKLAND-1-23-38-6000)			L					

Pinal County

IRON MIN (US 65)

1927 N.A.D. (Adj.)

R.G. Thompson, 1946 C.G. Merrick, 1965

Books: PH 2, PH 1100

Located about 0.5 mi. (airline) NE. of Roger's Troughs; on high, rounded, pinon-covered mountain; on highest point of rock outcrop.

To Reach from Roger's Troughs follow U.S. Forest Service Trail from Spring about 1.5 mi. to summit and station site.

Station mark: U. S. Department of Agriculture bronze tablet stamped "IRON MIN FOREST SERVICE 1938 VISIBLE AREA MAP POINT" cemented in rock outcrop.

Iron Mtn (C&GS) is 17.54 ft. from station mark in azimuth 157°37'24".

ARIZONA ZONE EAST X= 194,015.81 ARIZONA ZONE CENTRAL

Elevation: 6055.680 ft. (Spirit leveling by K.S.

Y= 886,387.68

x= 727,906.75 Y= 885,730.68

McLean, 1946)

 $\Delta \alpha = \pm 0^{\circ}24^{\circ}42^{\circ}$

Iatitude 33°25'57.514"

Longitude 111°10'10.649"

To Station	Azimuth	Back Azimuth	Feet
Fraser (C&GS) La Barge Black Cross (C&GS) Reevis Boulder Mound Mtn Pinto Gov't Hill Trail	47°48'51.78"	227°46'32.20"	29,016.23
	95 50 36.34	275 48 22.02	20,767.07
	134 58 39.62	314 55 18.25	43,698.65
	190 35 07.01	10 35 30.97	20,042.70
	197 40 39.46	17 41 31.68	26,409.63
	214 03 50.54	34 04 54.53	17,558.38
	235 58 14.04	55 59 56.36	18,978.41
	292 46 44.88	112 49 21.21	26,098.96
	334 47 39.32	154 48 10.36	11,219.79

NAD 83 VALUES AVAILABLE

FILE COPY

3/27/69 cj1/2/

1927 N.A.D. (Adj.)

R.G. Thompson, 1946

Book: PH 2

Located about 2.0 mi. (airline) NE. of Superior; about 0.5 mi. E. of Silver King Mine; on highest prominent rocky point of ridge.

To reach from Superior P. O., take U. S. Highway 60 and 70 W. for 1.7 mi.; turn right on Silver King Rd. for 0.6 mi. to rd. forks; take right fork N. for 4.0 mi. to the abandoned Silver King Mine; climb E. to summit of ridge; proceed left (N.) over first point (Queens Crown) down over saddle, thence up to summit and station site.

Station mark: Standard tablet, stamped "KINGS CROWN 1946", cemented in boulder flush with ground.

Reference mark No. 1: Standard reference mark tablet, stamped "NO 1", cemented in boulder, 22.3 ft. from station mark in azimuth 285°28'.

ARIZONA ZONE RAST X= 223,977.56 Y= 849,326.02

ARIZONA ZONE CENTRAL V.A. Elevation: 5541.1 ft. X= 758,486.22 Y= 849,178.85

Latitude 33°19'53.568"

Longitude 111°04'13.342"

To Station	Azimuth	Back Azimuth	Feet
Picket Post (CAGS) Whitford Trail Gov't Hill Craig Madera Hutton Pinal (CAGS) EMY 107" Hagen Granite Mtn (CAGS) Apache	95 18 45.76 136 14 29.56 166 51 20.02 249 32 40.48 267 06 38.53 273 09 24.12 283 08 43.89 299 07 24.86 317 04 21.62 347 37 59.30 353 37 01.72	224°11'01.10" 275 16 22.49 316 11 44.04 346 50 39.62 69 35 06.33 87 13 15.26 93 11 57.64 103 16 57.82 119 08 33.22 137 07 49.61 167 39 26.39 173 37 19.82	38,031.64 22,215.62 36,890.06 27,390.02 24,023.59 61,326.60 23,743.58 78,419.90 12,177.20 47,267.52 63,051.11 25,180.22

NAD 83 VALUES AVAILABLE

FILE COPY

3/27/69 ej1

Pinal County

LA BARGE

1927 N.A.D. (Adj.)

R.G. Thompson, 1946

Book: PH 2

Located about 3.0 mi. (airline) W. of Roger's Troughs; 2.5 mi. N. of "J.F." Ranch; on highest and most prominent point of flattopped, rocky butte.

To reach from "J.F." Ranch, follow Tortilla Camp Trail 3.5 mi. N. and W.; climb down S. into Tortilla Creek; thence climb S. to summit and station site. A 3-hr. pack with horses.

Station mark: Standard tablet, stamped "LA BARGE 1946", cemented in rock outcrop.

Reference mark No. 1: Standard reference mark tablet, stamped "NO 1", cemented in boulder, 49.15 ft. from station mark in azimuth 335°10'.

Reference mark No. 2: Drill hole in rock, 18.3 ft. from station mark in azimuth 114°19'.

ARIZONA ZONE EAST	ARIZONA ZONE CENTRAL	V.A. Elevation:	5077.2 ft.
X= 173,377.70	x= 707,233.87		
Y= 888,701.19	Y= 887,696.42		

Iatitude 33°26'18.365"

Longitude 111°14'14.427"

To Station	Azimuth	Back Azimuth	Feet
Fraser (C&GS) Black Cross (C&GS) Iron Mtn. Trail	2°11'33.59"	182°11'28.22"	21,616.07
	160 21.02.39	340 19 55.48	30,545.28
	275 48 22.02	95 50 36.34	20,767.07
	295 42 21.22	115 45 06.54	28,240.18

NAD 83 VALUES AVAILABLE

4/8/69 cj1

Pinal County

MAGMA SMOKESTACK

1927 N.A.D. (Sec.)

R.G. Thompson, 1946

Book: PH 2

Located in Superior at the Magma Copper Co. smelter.

Station mark and Signal: 300 ft. brick smokestack.

ARIZONA ZONE EAST

ARIZONA ZONE CENTRAL

V.A. Elevation: 2832 ft.

X= 211,593.66

X= 746,327.44

(Ground at stack)

Y= 836,023.02

¥= 835,670.23

Iatitude 33°17'40.87"

Longitude 111°06'37.87"

NAD 83 VALUES AVAILABLE

FILE GULL

3/28/69 cjl

Maricopa County

MOUND MOUNTAIN

1927 N.A.D. (Adj.)

USFS, 1938 R.G. Thompson, 1946

Book: PH 2

Located about 1.0 mi. (airline) SE. of Reevis Ranch; on round, pinecovered hill on divide between Campaign Creek to the E. and Reevis Creek to the W. and Pine Creek to the N.; on E. edge of highest point of mound-shaped mountain.

To reach from Reevis Ranch, follow Reevis Creek Trail 1.0 mi. S. to Carrol; thence up Forest Service Trail E. to summit of ridge overlooking Campaign Creek; turn right (SW.) on ridge and climb to summit and station site. A 2 hour pack with horses.

Station mark: U. S. Department of Agriculture bronze tablet, stamped "MOUND MOUNTAIN VISIBLE AREA MAP POINT 1938", cemented in rock outcrop.

ARIZONA ZONE EAST

ARIZONA CZONE CENTRAL V.A. Elevation: 6265.6 ft.

X = 203,990.54Y = 900,837.74

X= 737,636.36 Y= 900,346.03

Iatitude 33°28'21.406"

Longitude 111°08'14.554"

To Station	Azimuth	Back Azimuth	Feet
Iron Mtn Black Cross (C&GS) Reevis Boulder Mtn Granite Mtn Horrell Pinto Gov't Hill	34°04'54.53"	214°03'50.54"	17,558.38
	111 52 18.59	291 47 53.04	43,901.40
	129 58 48.12	309 58 08.06	8,027.69
	170 18 56.17	350 18 44.37	10,771.05
	233 08 11.57	53 10 43.02	29,040.84
	261 05 58.80	81 09 56.02	36,865.40
	303 40 47.65	123 41 26.00	7,080.90
	330 01 25.58	150 02 58.01	28,462.30

NAD 83 VALUES AVAILABLE

FILE COPY

3/26/69 cj1,

Maricopa County

PINE

1927 N.A.D. (Adj.)

R.G. Thompson, 1946 W.F. McElwain, 1963

Books: PH 2 PH 930

Located about 2.0 mi. (airline) E. of Reevis Ranch; on low pine covered ridge.

To reach from Reevis Ranch follow Campaign Creek to Pine Creek; turn up Pine Creek for about 1.0 mi.; thence climb E. to summit of ridge and highest point and station. A 1 1/2 hour pack with horses.

Station mark: Standard tablet, stamped "PINE 1946", cemented in boulder flush with ground.

Reference mark No. 1: Drill hole in boulder, 35.2 ft. from station mark in azimuth 355°01'. (Not recovered in 1963)

Note by McElwain 1963: Reference mark No. 1 note recovered.

ARIZONA ZONE EAST X= 211,875.96

Y= 909,644.59

ARIZONA ZONE CENTRAL

VA.Elevation: 5714 ft.

(Checked 1963)

X= 745,372.02

Y= 909,284,23

Latitude 33°29'49.252"

Longitude 111°06'42.419"

To Station	Azimuth	Back Azimuth	Feet
Pinto Boulder Mtn Granite Mtn Horrell Gov't Hill	8°29'54.27"	188°29'41.81"	12,948.63
	100 15 24.59	280 14 21.93	9,770.40
	241 02 56.88	61 04 37.51	17,638.10
	276.20 51.76	96 23 58.21	28,794.47
	349 10 46.36	169 11 28.04	34,143.82

NAD 83 VALUES AVAILABLE

3/26/69 cj1,2

Pinal County

PINTO (U565)

1927 N.A.D. (Adj.)

R.G. Thompson, 1946

Book: PH 2

Located about 2.5 mi. (airline) S. of upper Horrell Ranch; on a prominent, isolated cone-shaped peak at head of Campaign Creek.

To reach from upper Horrell Ranch on Campaign Creek, follow Campaign Creek S. about 3.0 mi. to springs; elimb left (E.) to summit and station site. A 2 1/2 hour pack with horses.

Station mark: Standard tablet, stamped "PINTO 1946", cemented in boulder flush with ground.

Reference mark No. 1: Drill hole in boulder, 28.4 ft. from station mark in azimuth 242°58'.

ARIZONA ZONE FAST	ARIZONA ZONE CENTRAL	V.A. Elevation:	5991.2 ft.
X= 209,845.94 Y= 896,856.13	X = 743,557.81		
Y= 896,856.13	£=_896,463.74		

Iatitude 33°27'42.551"

Longitude 111°07'05.006"

To Station	Azimuth	Back Azimuth	Feet -
Trail Iron Mtn Mound Mtn Pine Granite Mtn Horrell Cone Gov't Hill	27°49'28.87" 55 59 56.36 123 41 26.00 188 29 41.81 219 05 56.01 252 30 10.12 283 49 24.14 338 07 13.80	207°48'17.64" 235 58 14.04 303 40 47.65 8 29 54.27 39 07 49.07 72 33 28.95 103 54 14.28 158 08 07.90	23,481.69 18,978.41 7,080.90 12,948.63 27,504.87 32,012.08 45,946.76 22,338.87

NAD 83 VALUES AVAILABLE



3/26/69 cJ1/2/

Maricopa County

REEVIS

1927 H.A.D. (Adj.)

R.G. Thompson, 1946

Book: PH 2

Located about 0.75 mi. (airline) W. of Reevis Ranch; on a pine-covered hill overlooking Reevis Ranch.

To reach from Reevis Ranch climb W. to summit of hill, highest point and station.

Station mark: Standard tablet, stamped "REEVIS 1946", cemented in boulder flush with ground.

ARIZONA ZONE CENTRAL

ARIZONA ZONE EAST

V.A. Elevation: 5409.4 ft.

X= 731,446.69 Y= 905,457.49

X= 197,887.63 **Y=** 906,052.97

Latitude 33°29'12.430"

Longitude 111°09'27.180"

To Station	Azimuth	Back Azimuth	Feet
Iron Mtn	10°35'30.97"	190°35'07.01"	20,042.70
Black Cross (C&GS)	107 55 31.89	287 51 46.38	36,357.03
Boulder Mtn	218 28 03.29	38 28 31.56	6,974.10
Mound Mtn	309 58 08.06	129 58 48.12	8,027.69

NAD 83 VALUES AVAILABLE

3/26/69 cj1

FILE CONT

Gila County

ROAD T.B.M.

1927 N.A.D. (Sec.)

B.H. Yoakum, 1944

Book: H 160

Located 1.5 mi. (by rd.) S. of the residence of Mr. Horrell, on Pinto Creek; 100 ft. W. of rd. near N. end of low knoll, in notch cut in base of an "All-thorn", or "Crucifixion thron" bush. (This plant is sometimes erroneously referred to as "Palo Verde"),

Station mark: Copper nail with washer.

ARIZONA ZONE EAST

ARIZONA ZONE CENTRAL V.A. Elevation: 3284 ft.

X = 243, 148.73Y = 892,080.36 X= 776,936.02 Y= 892,249.44

Iatitude 33°26'58.146"

Longitude 111°00'31.479"

NAD 83 VALUES AVAILABLE

Pinal County

SUMMIT

1927 N.A.D. (Adj.)

R.G. Thompson, 1946 V. Jackson, 1963

Books: PH 2, PH 910

Located about 8.0 mi. (airline) W. of Superior; on the highest top to the N. of U. S. Highways 60 and 70; at a point where the highway passes over the summit (Gonzales Pass). The top, a point on N.-S. ridge is approximately 400 ft. N. and 150 ft. higher than the highway and can be seen from the highway.

To reach from Superior P.O., drive W. on Highways 60 and 70 for 8.8 mi. to the pass; climb N. up the hill (right) to the summit and station.

Station mark: Standard tablet stamped "SUMMIT 1946" cemented flush in ground.

ARIZONA ZONE EAST ARIZONA ZONE CENTRAL Elevation: 3010.929 ft. X= 174,271.97 X= 709,102.37 (Third Order leveling by Y= 829,702.34 K.S. McLean, 1946)

Latitude 33°16'44.453"

Longitude 111°13'56.872"

Station	Azimuth	Back Azimuth	Feet
Dromedary (C&GS) Millsite Fraser (C&GS) Trail Whitford Picket Post (C&GS)	34°00'22.14"	213°59'41.26"	11,315.27
	158 00 31.82	337 59 39.67	21,518.81
	176 21 39.97	356 21 22.96	36,481.39
	207 38 05.86	27 40 41.18	51,649.74
	232 17 27.20	52 20 24.48	34,620.24
	289 28 02.81	109 30 31.54	24,421.65

NAD 83 VALUES AVAILABLE

FILE CULL

3/28/69 ejl

TRAIL

1927 N.A.D. (A4J.)

R.G. Thompson, 1946

Book: PH 2

Located about 6.0 mi. (airline) NW. of Superior; 1.5 mi. S. of Roger's Troughs; on white limestone hill locally called "Montana Mtn.".

To reach from Rogers Troughs go S. on old Superior Ridge Trail (part of Reevis Canyon Trail to Superior) about 1.5 mi. to summit of saddle; climb right (W.) to summit of ridge; follow ridge S. to highest point and station site. A l hour pack with horses.

Station mark: Standard tablet, stamped "TRAIL 1946", cemented in rock outcrop.

Reference mark No. 1: Cross on rock, 17.9 ft. from station mark in azimuth 250°45'.

ARIZONA ZONE EAST ARIZONA ZONE CENTRAL V.A. Elevation: 5556.6 ft. X= 198,695.91 X= 732,757.51 Y= 875,614.17

Iatitude 33°24'17.076"

Longitude 111°09'14.289"

To Station	Azimuth	Back Azimuth	Feet
Picket Post (C&GS) Summit Dromedary (C&GS) Millsite Fraser (C&GS) La Barge Iron Mtn Pinto Gov't Hill Kings Crown Whitford	1°01'59.96" 27 40 41.18 28 49 18.53 51 10 26.44 70 27 14.13 115 45 06.54 154 48 10.36 207 48 17.64 269 52 13.74 316 11 44.04 352 05 43.24	181°01'53.67" 207 38 05.86 208 46 02.32 231 06 58.77 250 24 23.58 295 42 21.22 334 47 39.32 27 49 28.87 89 54 18.97 136 14 29.56 172 06 05.37	53,904.65 51,649.74 62,907.66 41,119.73 27,886.87 28,240.18 11,219.79 23,481.69 19,285.23 36,890.06 24,820.41

NAD 83 VALUES AVAILABLE

FILE CUPY

3/28/69 cjl

WHITFORD

1927 H.A.D. (Adj.)

R.G. Thompson, 1946

Book: PH 2

Located about 3.0 mi. (airline) NW. of Superior; on a round, reddish ridge, part of mountain divide.

To reach from Superior P.O., take U. S. Highways 60 and 70 for 1.7 mi.; turn right (N.) on Silver King Rd. for 0.6 mi. to rd. forks; take left fork (W.) for 1.8 mi.; turn right (N.) on the Happy Camp Rd. for 3.5 mi. to mine dump; continue 0.9 mi. to end of truck travel. Climb W. 0.75mi. to summit of ridge, highest point and station. A 45 minute pack.

Station mark: Standard tablet, stamped "WHITFORD 1946", cemented in rock outcrop.

Reference mark No. 1: Standard reference mark tablet, stamped "NO 1" cemented in rock outcrop, 26.5 ft. from station mark in azimuth 39°53'.

ARIZONA ZONE EAST ARIZONA ZONE CENTRAL V.A. Elevation: 3569.4 ft. X= 201,876.16 X= 736,350.72 Y= 851,574.64 Y= 851,056.15

Latitude 33°20'13.843"

Longitude 111°08'34.057"

To Station	Azimuth	Back Azimuth	Feet
Picket Post (C&GS) Summit Millsite Fraser (C&GS) Trail Gov't Hill Kings Crown Apache	8°30'56.06" 52 20 24.48 88 04 26.85 117 11 51.01 172 06 05.37 212 48 22.09 275 16 22.49 317 20 26.01	188°30'27.69" 232 17 27.20 268 00 37.26 297 08 38.49 352 05 43.24 32 50 05.08 95 18 45.76 137 23 07.25	29,637.57 34,620.24 35,468.06 33,382.51 24,820.41 29,299.47 22,215.62 36,801.74

NAD 83 VALUES AVAILABLE

FILE GWI'Y

3/28/69 ejl

Maricopa County

1-36 A

1927 N.A.D. (Sec.)

R.W. Hendrickson, 1963

Book: PH 930

Located about 17 mi. (airline) NNE. of Florence Junction; 16 mi. NNW. of Superior; 13 mi. SSW. of Roosevelt Dam; 0.5 mi. N. of Fish Creek on top of large ridge.

Reached by helicopter.

Station mark: Drill hole in rock outcrop.

ARIZONA ZONE CENTRAL

ARIZONA ZONE EAST V.A. Elevation: 4845 ft.

X = 711,919.9Y = 908,604.0

X = 178,415.6Y = 909,528.3

Latitude 33°29'44.912"

Longitude 111°13'17.480"

NAD 83 VALUES AVAILABLE

Pinal County

2-349 A

1927 N.A.D. (Sec.)

K.B. Miller, 1963

Book: PH 910

Located about 2 mi. S. and 2 mi. W. of Superior, Arizona; on summit of low foothill; about 1500 ft. W. of a gravel rd.

Station mark: A chiseled cross on rock outcrop on highest point of hill.

ARIZONA ZONE CENTRAL X= 742,330 Y= 825,108

V.A. Elevation: 2803 ft.

Latitude 33°15'56.67"

Longitude 111°07'25.91"

NAD 83 VALUES AVAILABLE

Arizona (165) Gila County P.P. 4-90A

1927 N.A.D.

B. H. Yoakum, 1944

Books: H 159, H 160

Located about 2.5 mi. (air line) SW. of Horrell Ranch residence on Pinto Creek, about 1.25 mi. W. of rd. leading to Horrell Ranch, on main divide between Pinto Creek E. and West Fork N. It is on highest part of summit at N. end of brush covered ridge, about 0.25 mi. N. of low saddle at heads of branches of Pinto Creek and West Fork, the latter having and earth tank near its headwaters. The station is about 1 ft. E. from SE. corner of large brown boulder.

To reach station from Horrell's residence, drive S. on rd. 1.8 mi. to sharp bend in rd. at drain X-ing; leave truck and walk W. up ridge between drains about 1.0 mi. to N.-S. fence; cross fence and continue about 0.25 mi. to highest point on N. end of summit.

Station mark: Chiseled cross inside a triangle on small fixed granite boulder.

Reference mark No. 1: Chiseled cross on top of rock in place is 12.5 ft. from station mark in azimuth 7°37'.

Reference mark No. 2: Chiseled cross on top of rock in place is 14.26 ft. from station mark in azimuth 150°04'.

Signal: Century plant seed stalk set against a large boulder and surrounded by rock, 4.7 ft. from station mark in azimuth 93°24'.

V.A. Elevation: 4316 ft.

Latitude: 33°26'25.214" Longitude: 111°01'30.433"

NAD 83 VALUES AVAILABLE

12/20/60 hd ce FILE COPY

Pinal County

7-1112 A

1927 N.A.D. (Unadj.)

R. W. Hendrickson, 1965

Book: PH 1100

Located about 18 mi. (Airline) E. of Apache Junction; about 11 mi. NE. of Florence Junction; on a low ridge between Fraser Canyon and Randolph Canyon.

Station reached by helicopter.

Station mark: Railroad spike driven in top.

Reference marks: None set.

Signal: White flag over red cross-target on 2 x 4 pole centered over station mark.

Signal data:

TWF

13.0 ft.

BWF

10.0

BRXT

6.8

Photo No.: Paneled

ARIZONA ZONE CENTRAL

X=704,554.0 Y=875,229.7

 $\Delta \alpha = +0^{\circ}22^{\circ}08^{\circ}$

V. A. Elevation: 3403.9 ft.

	LAT. 33° 211 15.193"	LONG. 111º 14' 46.998"
Iron Mtn. (C&GS)	STATION AZIMUTH 2169 6: 58.661	BACK AZIMUTH DISTANCE 66° 91 30.81/11 25606.19
7-1113 X	347° 35' 29.243"	167° 35' 41.864" 9049.80

NAD 83 VALUES AVAILABLE

FILE GOPY

4-7-65 sms \

Pinal County

7-1113 X

1927 N.A.D. (Unadj.)

H.R. Poulsen, 1965

Book: PH 1100

Located approximately 300 ft. N. of triangulation station Frazer (C&GS) on high point.

Station Mark: Ring of rocks on highest part of hill.

Signal: None

Photo No.: Not identified.

ARIZONA ZONE CENTRAL

X=706,555.4

Y=866,404.5 $\Delta \alpha = +0^{\circ}22'20''$

V.A. Elevation: 4615.3 ft.

LAT. 33°	22' 47.749"	LONG. 1110 141 24.067"
Superstition (USGS) (C&GS)	103º 31 34.3751	BACK AZIMUTH DISTANCE 282° 581 17.217" 50114.52
7-1111 B	1389 101 1.895"	318 81 28.466" 21567.93
7-1112 A Black Cross (C&GS)	169° 18' 11.469"	347° 35' 29.268" 9049.80 349° 17' 9.918" 50939.65
7-1106 A Iron Mtn. (C&GS)	172° 52' 38.403" 228° 11' 16.708"	352° 52' .857" 46527.79 48° 13' 36.185" 28805.87
Fraser (C&GS)	10 441 35.531"	1819 44: 35.471" 312.15

NAD 83 VALUES AVAILABLE

FILE GOPY.
4/8/65 sin 8

Arizona (165) Pinal County

11-1564 A

1927 N.A.D. (Sec.)

K.B. Miller, 1963

Book: PH 910

Located about 6 mi. N. and 1 mi. W. of Ray; Arizona; on the divide between Devils Canyon and Rawhide Canyon; on highest point of small top on ridge.

Station mark: A chiseled cross on boulder flush with ground.

ARIZONA ZONE CENTRAL

ARIZONA ZONE EAST V.A. Elevation: 4071 ft.

X = 774,693Y = 826,338

X = 239,799Y= 826,218

Latitude 33°16'06.26"

Longitude 111°01'04.65"

NAD 83 VALUES AVAILABLE

NAME	STATION
V Fraser	1007
V Iron Mountain	1009
Miles	1011
V/ Nick	1012
V Picket Post	1016
V Picket Post V Superior	1021

HORIZONTAL CONTROL DATA

by the Coast and Geodetic Survey NORTH AMERICAN 1927 DATUM

R

MINICUINA

QUAD 331112 STATION 1007

ARIZ LATITUDE 33°00' TO 33°30' LONGITUDE 111°00' TO 111°30' DIAGRAM NI 12-8 MESA

ADJUSTED HORIZONTAL CONTROL DATA

00

USCOMM-ESSA-ASHEVILLE

HAME OF STATION: FRASER

Ariz

STATE:

Tonto National Forest and LOCALITY

Winkelman to Winslow to Phoenix FIELD SHETCH: ARIZ 24 First-onces Triangulation *DURCE: G-7605

GRIÐ DAT	TA	= 172,328.44 y 867,110.20		ANE AZIMUTH DRÅGI ANGLE		МАЯК		
STATE: AP ZONE: E CODE: 02				56°15'56' 0 35 26	" AZIMUTH	AZIMUTH MARK		1 2-1
STATE: AF ZONE: C CODE: 02	1z 02	706,547. 866,092.	91 36 +	55°18 10 0 22 20	AZIMUTH	MARK		VIII-RU

METERS ELEVATION	
DATA LONGITUDE: 33°22'44".661 HORTH 1,407.3 4,617	HETERS FEET

	LONGITUDE: 111 14 24.179	WEST	4,617	PEET
	TO STATION	GEODETIC AZIMUTH	DISTA	HCE
	10 STATION	(Prem south)	LOGARITHM (Motore)	METERS
AZIMUTH	MARK	THIRD-ORDER 55°40'29"9		
1/ ^	ELEV. 4617.5 A	ET (115GS 19)	65)	
V+H-				
CM-I	E COOV		224	
17 U.L.I	<u>5</u> 16/01 7			

1969 AUG

cliffs on E and N. Surface, reference, and azimuth marks are standard bronze disks in outcropping bedrock as described in notes 2 and 12a.

site Creek on E and Fraser Creek on W. Peak has almost vertical

FRASER (Pinal County, Ariz., F.G.J., 1938) -- About 9 miles N and 5 1/2 miles E of Florence Junction and 8 miles W and 6 miles N of Superior, Ariz. Station is on highest point of divide between Will-

Station is reached from post office in Florence Junction, Ariz. by going NW on Ariz. 70, 0.05 mile to a paved road leading R. Thence turn R and follow paved road 2.1 miles to Queen Greek Bridge. Continue on 0.05 mile to a track road leading R. Turn R and follow main-traveled road 3.15 miles to a fork. Thence take L fork and follow main-traveled road 2.45 miles to a dim R fork. Thence keep straight ahead, L fork main-traveled road 0.4 mile to a dim R fork, Main-traveled road goes L 0.25 mile to a ranchhouse. Turn R on dim road and go northerly 2.45 miles to a fork. Take R fork and continue on 0.05 mile to a wire gate. Thence continue 0.2 mile to a point where road curves to R and end of truck travel. From here station site is visible about 2 1/2 miles distant at 46° magnetic. From here go northerly on, bearing 350° magnetic about 0.2 mile to a wash. Here turn R up wash and continue in left-hand main wash to a saddle on ridge. Thence R along ridge to highest point and station site. This station is about a 3-hour pack.

Reference mark No.1 is W of station at about same elevation. Reference mark No. 2 is N by E of station at about same elevation. Azimuth mark is about 2 1/2 miles SW of station and about 2000 feet lower in elevation. It is about 100 feet NE of end of truck travel on western slope of a hill

OBJECT DISTANCE DIRECTION DROMEDARY feet meters 0,0010000 R.M.No.1 11.995 3.657 783 48 48 R. H. No. 2 NXE 13.460 4.403 187 47 12 Azimuth mark 37 approx. 2 1/2 miles 50 40 09.0 Height of telescope above station mark - 1.4 meters.

DEPARTMENT OF COMMERCE B. B. COMP. MR REPORTS AND ADDRESS. RECOVERY NOTE, TRIANGULATION STATION

NAME OF STATION:FRASER BEATS: APPLEONS County: Pinal ESTABLISHED BY: F. G.J. LocaLITY Superior YEAR: 1938 RECOVERED BY: D. H. Konichek Y=48:1946

Detailed statement as to the fitness of the original description:

Station and reference marks found as described and in good condition except that the published distance to reference mark No. 2 as given in meters is incorrect. The correct distance is given below. The azimuth mark was not searched for as the original description was not followed to reach the station.

The station is located about 11 miles air line northeast of Florence Junction and about 9 miles air line northwest of Superior, on the highest point of the divide between Mill Site Creek on the east and Fraser Creek on the west. The station mark is a bronze disk stamped: "FRASER 1938", set in outcropping bedrock flush with ground on the highest point of a rounded peak, 8 paces north of the south brim and 8 naces south of north brim,

Reference mark No. 1 is a bronze disk stamped: "PRASER NO 1 1938", set in outcropping bedrock flush with ground, 5 paces north of the south brim and 1 cace south of the north brim. It is at the same elevation as the station mark.

Reference mark No. 2 is a bronse disk stamped: "FRASER NO 2 1039", set in outcropping bedrock flush with ground, 4 paces west of the east brim and 4 races northwest of the highest point of peak. It is at the same elevation as the station mark.

To reach station from post office in Superior; go west on highway U.S.#60 & 70 to a dirt road right at sign "SNOW WHITE PERLITES MINES 5 miles"; turn right, go 0.05 mile to fork; turn right and follow main traveled road 4.8 miles to a dim road right; turn right down into queen Creek, then right, across creek and up Hewitt Canyon 0.35

mile to a wire gate; pass through gate, follow canyon 1.9 mile to a dim road left leading up canyon; turn left and go 1.4 mile to end of truck travel at large bedrock in bottom of canyon. From here walk up main canyon keeping to the right of the large rock projection, to mouth of another canyon on the left; at which point a large rock butte can be seen to the northwest; walk up left hand canyon, to right of butte, to the head of the canyon at saddle; thence right, northeast, up ridge to highest point and station as described above. A three hour pack.

CBJECT KOADSIDE 1938 K.M.No.2 1938 H.M.No.1 1938	(Az. Mk.) NNE	HOR. DISTANCE Veters 4.109 3.645	DIRECTION 0 00 00 102 16 56
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JULY 1966

U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY

REVISED JUNE 1969

HORIZONTAL CONTROL DATA

by the Coast and Geodetic Survey NORTH AMERICAN 1927 DATUM QUAD 331112 STATION 1008 ARIZ LATITUDE 33°00' TO 33°30' LONGITUDE 111°00' TO 111°30' DIAGRAM NI 12-8 MESA

ADJUSTED HORIZONTAL CONTROL DATA

GRANITE MOUNTAIN NAME OF STATION:

STATE ARIZONA

TEAR: 1935,1947

FIRST -ORDER

TONTO NAT FOREST AND WINKELMAN TO WINSLOW TO PHOENIX LOCALITY

G+3058+G-3083+G-7605

MELD SKETCH: ARIZ 9,14,24

1000	* 14 H		_	
GEODETHE LATITUDE	33 09 44.19570	ELEVATION:	1234.9	METERS
GEODETIC LONGITUDE:	111 01 34.50090		4052	PEET -

STATE COGRDINATES (Fml)							
STATE & ZONE	cone	ж	Y	θ (on Δ α) ANGLE			
RIZ. E.	0201 0202	236.947.92 772.487.92	787.624.49 787.703.32	- 0 28 13 + 0 29 14			

TO STATION OR OBJECT	GEORETIC AZIMUTH	PLANE AZIMUTH (Franceit)	CODE
AZIMUTH MARK 1936 AZIMUTH MARK 1936	148 12 49.9 148 12 49.9	148 41 03 147 43 36	0201 0202

of bedrock and 2 miles from station in azimuth 148°12'50". DEPARTMENT OF COMMERCE

8. 9. COMMENT NO SERVETE SHOPE

FORM \$36 RECOVERY NOTE, TRIANGULATION STATION

NAME OF BrATIQUE GHANITE HT. ESTABLISHED BY: E.B. Latham

State: Arizona LOCALITY: Superior

Granite Mountain (Plnal County, E. B. Latham, 1935; 1936) .- About 101/2 miles south-southener of Superior and 3 miles west of the mining town of Ray. on the summit of the westerly and highest peak of Granite Mountain, a prominent

and well-known peak lying at the north end of the extensive and rugged range known as The Spine and about 1½ miles south of the Ray-Superior Highway; in the center of the bare summit, about on the centerline of the shallow saddle to

the north. Marked by a stundard disk set in concrete in a depression in bedrock, note 3. Reference mark No. 1, a standard bronze reference disk, note 12n, is

southeast of the station on a slight, rock, rise and 8.200 meters (27.20 feet)

from station in azimuth 278°38'. Reference mark No. 2, a standard bronze

reference disk, note 12a, is at south edge of the shamit and 10.998 meters (36.08 feet) from station in azimuth 15 03'. The azimuth mark (1936), a standard

bronze disk, note 12a, is 200 feet south of the ltay-Superior Highway, 140 feet east of dim track road leading towards base of ridge, on the lower summit at the north end of a small limestone knoll, on the ridge line, in a low, sharp, outcrop

County: Pinal

YEAR: 1935

RECOVERED BY: D. H. Konichek YEAR: 1947

Detailed statement as to the fitness of the original description:

Station recovered and all marks found in good condition as described with the exception of difference in direction to Reference mark No. 1 and difference in distance to

Reference mark No. 2, correct direction and distances listed below.

DISTANCE OBJECT 00 00 00,00 PICKET PUST 1936 Meters 17 34 10.5 Aziruth mark 1930 NJ Approx. 2.0 miles . 147 54 11. H.L. No. 1 1935 ESE" 8,290 244 29 40. H.H. No. 2 1935 SSil" 10,990

The station is located about 10.5 miles south-southeast of Superior and 3.0 miles west of the mining town of may, on the summit of the westerly and highest peak of Granite Lountain; in the center of a bare summit set in outcropping bedrock flush with the ground surface and is stamped "GRANITE LT. 1935".

Reference mark No. 1 is approximately the same elevation as the station, set in outcropping bedrock flush with the ground surface and stamped "GRANITE MT NO 1 1935".

Reference mark No. 2 is approximately 14 inches lower than the station, set in outcropping bedrock flush with the ground surface and stamped "GRANITE HT NO 2 1935" The azimuth mark is on a low knoll200 feet south of the Hay Superior Highway, 132

feet southeast of center line of road to station just after right turn off highway mentioned in description, on the lower summit at the north end of a small limestone knoll set in outcropping bedrack which projects o inches and stamped "GRANITE MOUNTAIN 1935&1936".

To reach from the post office in Superior; go northeast on the Mobe Highway for 0.15 mile to the junction of the Hay Highway with U.S. routes #60 & #70 just after crossing queen Creek bridge; here keep straight ahead on the Ray Highway for 11.0 miles to the remains of several old buildings on the right at the buttom of a canyon, continue straight shead for o.o mile to the intersection of a side road right; turn right leaving main highway (Aziruth mark is on the low knoll to the left) and go 0.15 mile to an old slag pile on the left and end of truck travel, From this point pack south-southeast to the highest point and station site. A la hour pack.

Observations made from a 1.3 meter tripod.

HORIZONTAL CONTROL DATA

U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY

Coast and Geodetic Survey NORTH AMERICAN 1927 DATUM QUAD 331112 STATION 1009 ARIZ LATITUDE 33°00' TO 33°30' LONGITUDE 111°00' TO 111°30' DIAGRAM NI 12-8 MESA

POPER SM Rev. Oct., 1882

Azimuth mark,

DESCRIPTION OF TRIANGULATION STATION

STATE: Arizona

NAME OF STATION: IRON MT. CHIEF OF PARTY: U.H. Konichek Surface-station mark. Note. 2 Underground-station mark, Hote.* Nets, 128 Reference mark, No. 1 Beference mark, No. 2

Note, 728 Note, 12a

Witness mark. Height of light above station mark meters. Height of telescope above station mark 1. Gneters.

YEAR: 1947 LECALITY: Superior DISTANCES AND DIRECTIONS TO REFERENCE MARKS AND PROMINENT OBJECTS WHICH CAN BE SEEN FROM THE GROUND HORAL lieter. 00 00 00.00 FRASER 1938 R.M. No. 1 1947 NE 8,967 192 23 50. R.M. No. 2 1947 SE 10.882 272 42 17. As. Mr. 1947 SSW approx. 1.0 mile airline. 326 03 31.0

The station is located about 15 miles airline northwest of Florence Junction, about 10.5 miles north-northwest of Superior, on the highest point of the divide between Reevis Creek and Rogers Canyon, on what is locally known as Iron Mountain and sometimes used by the forest Service as a Look Out. It is on the highest point of a north-south ridge, projects 8 inches and is stamped "IRON MT 1946".

Reference mark No. 1 is approximately 3 feet lower than the station, projects 8 inches and is stamped "IRON MT NO 1 1946"

Reference mark No. 2 is approximately the same elevation as the station, projects 10 inches and is stamped "IRON MT NO 2 1946".

The azimuth mark is located in a low saddle approximately 1.0 mile by road before reaching the end of truck travel, 20 paces west of center line of road, 6 inches east

of a B.M. painted on rock, projects I foot and stammed "IRON MT 1946".
To reach from the post office in Superior; go west on routes U.S. #60 and #70 for 4.6 miles to a side road right as per sign "Snow White Perlite Mine"; turn right and follow the main traveled road for 3.3 miles to Hewitts School House on the right; continue for 1.6 miles to a dim track road right going down into Queen Creek; turn right cross Queen Creek and follow road up Hewitt Canyon for 0.35 mile to a wire gate; pass through gate and continue up canyon for 2.0 miles to a fork; keep right up Hewitt Canyon on dim tracks for 5.4 miles to point where road leaves canyon and the end of truck travel, a small fenced in area and a car loading dump shead on the left. A jeep man be driven over the old trail which goes to the base of Iron Mountain about 5 miles from this point. From the end of truck travel continue on the old road for 0.5 mile to a point where it comes out of canyon; turn sharp left and follow winding road for 0,8 mile to the north mide of wash and another fork; take left fork and follow the old road which is very plain for 3.7 miles to the top of ridge and asimuth mark; continue down wash for 0.7 mile to an old cabin and watering troughs and end of truck travel for a jeep. From this point pack up canyon along ald pipe line which runs to a spring; here cross to the right side of wash and continue north- northeast along a good trail to top of mountain and station site as described above. A 1 hour pack,

(Army Map Service, 1967) -- Station, reference and azimuth marks were recovered in good condition. Description adequate.

U.G. BURDINE

ADJUSTED HORIZONTAL CONTROL DATA

330151 111000

HAME OF STATIONS IRON MOUNTAIN

MATER Ariz

LOCALITY Tonto National Forest and

Winkelman to Winslow to Phoenix source: 0-7605 First-cases Triangulation

ARTZ 24

YEAR: 1947

GRID DATA		COORDINATES (Feet)	PLANE AZIMUTH 8 IORÂGS ANGLE	MARK	
STATES API		= 194,008.46 7 886,404.53	14°23'28" - 0 33 10	AZIMUTH MARK	
STATE: Ari		* 727,899.12 * 885,747.37	13 25 36 + 0 24 42	AZIMUTH MARK	

	253	POSITION		SECONDS IN METERS	ECEVATION	
GEODETIC	LATITUDE:	33°25'57"679 111 10 10.738	HORTH		1,844.8 6,052	METERS
					DISTANCE	

111 10 10.738	WEST	6,052	***
MOTATE OF	GEODETIC AZIMUTH (From small)	DISTA LDGARITHM (Molece)	NETERS
AZIMUTH MARK	THIRD-ORDER 13°50'18"5		
			1,43
	d space.		
LEV. 6054. 7 FT (PTL USGS	1965, 1	PH 110
	172 0363	7760,	

JULY 1966

U. S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY HORIZONTAL CONTROL DATA

by the Coast and Geodetic Survey NORTH AMERICAN 1927 DATUM QUAD 331112 STATION 1010 ARIZ LATITUDE 33°00' TO 33°30' LONGITUDE 111°00' TO 111°30' DIAGRAM NI 12-8 MESA

REVISED JUNE 1969 MAY 1972

Lore (Pinal County, J. Bowie, Jr., 1936).—About 15 miles north of Florence on U. S. Highway No. 80, 0.7 mile south of the junctions of U. S. Highways No. 80, 60, 70 and 89, 56 feet east of the center line of U. S. Highway No. 80, and 100 feet south of a metal yellow sign painted "Curre." Marked by a standard disk cast in a 1-inch bronze rod and projecting 6 inches above the ground. Reference mark No. 1, a standard bronze reference disk cast in a 1-inch bronze rod projecting 6 inches above the ground is 14.690 meters (48.20 feet) from station in azimuth 276°28'. Reference mark No. 2, a standard bronze reference disk cast in a 1-inch bronze rod projecting 6 inches above the ground is 17.134 meters (56.21 feet) from station in azimuth 7°27'. The azimuth mark, a standard bronze disk, note 11a, is 135 feet east of the center line of U. S. Highway No. 80 and 315 yards from station in azimuth 197°52'23".

Pora 526 (11-8-85) U.S. DEPARTMENT OF COMMERCE - COAST AND RECOVERY NOTE, TRIANGULATION STATION

R

NAME OF STATION: LA LAG

Established BT: 4. YEAR: 1936 STATE: Arizona Recovered by: 4. Year: 1956 County: Pingl

Detailed statement as to the fitness of the original description; including marks found, stampings, changes made, and other partinent facts:

Seference caris were found in good condition.

RECOVERY NOTE, TRIANGULATION STATION

QUAD 331112

HAME OF STATION: LURE

ESTABLISHED BY: J.B. Jr. YEAR: 1930

RECOVERED BY: L.P. Smith YEAR: 1971

ARILINE DISTANCE AND DIRECTION FROM HARREST TOWN: J. M. mile south of Florence Junction

NEIGHT OF TELESCOPE ABOVE STATION MARK 5 FEET.

HEIGHT OF TELESCOPE ABOVE STATION MARK 5 FEET.

			DISTANCE		155 17-64	
OBJECT	BEARING	PERT	METERS	DIRECTION		
Azimuth mark 1936 (U.3 mile, RM 3 RM 1 Stem RM 2	N NE E S	75.56 48.20 56.22	23.030 14.690 17.136	23 70 169	00 12 35 34	00.0 36 54

Reference mark 1 and the azimuth mark were recovered and found in good conditions. The stems of the rod type station mark and reference mark 2 were recovered below ground surface at the top of the concrete monuments. A check run and measurments showed both stems were on position. The station was remonumented and reference mark 3 was established at this time. An underground station was set 3 feet deep.

The station mark is a standard disk set in the top of a 10 inch concrete monument which is 1 inch below the ground surface. It is 63.2 feet east of the center line of the highway, 41.1 feet west of the right of way fence line and 1 foot west of a witness post and sign. The mark is stamped LORE 1936 1971.

Reference mark 1 is a standard disk set on top of a brass rod which projects 8 inches aboue the ground surface. It is 0 feet east of the right of way fence line. The mark is stamped, LORE NO 1 1936.

Stem reference mark 2 is the center of a 1 inch brass rod which is broken off at the base of a concrete monument 6 inches below the ground surface. 62 feet east of the center line of the highway and 37 feet west of the right of fence line.

Reference mark 3 is a standard disk set in the top of a 12 inch concrete monument which projects 1 inch. It is 74.9 feet west of the witness post and sign and 1 foot west of a witness sign in the fence line.

The azimuth mark is a standard disk stamped, LORE 1936. It is set in the top of a 10 inch concrete monument which projects 8 inches. It is about 39 yards east of the center line of the highway and 28 feet east of a witness sign in the right of way fence.

To reach the station from the post office in Florence Junction go south along Arizona Highways 80 and 89 for 0.45 mile to the azimuth mark on the left, continue south for 0.35 mile to the station on the left.

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION LORE

STATE ARTZONA

YEAR 1936

SECONO-GROSS

LOCALITY PAPAGO INDIAN RESERVATION

sousce G-3083

FIELD SKETCH AR [2 14

ELEVATION:	METERS
	FEET
	BLEVATION

	1000000	STATE COORDINATES (Fmt)		
BIATE & ZONE	CODE	ж	Y	Ø (OR A Œ) ANGLE
ARIZ. C.	0202	676,169.59	818,631.49	+ 0 18 57

TO STATION OR DEJECT	GEODETIC AZIMUTH (Frim Halk)	PLANE AZIMUTH (From Hath)	CODE
AZIMUTH MARK	197 52 21.9	197 33 25	0202
THESE DATA OFFAINED FROM READJ	USTMENT OF 3-69.		l
	_		
=			
=			

CAGE FORM 6462

165

JULY 1966 U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY

REVISED JUNE 1969

Picket Post (Pinal County, J. Bowie, Jr., 1936) .- On the highest point and on the south edge of Picket Post Mountain, a prominent peak consisting of vertical

cliffs that tower above the local mountains, about 20 miles northeast of Florence, about 10 miles east of Florence Junction, and about 6 feet northwest of a large rock cairn. Marked by a standard bronze disk as described in note 4. Reference mark No. 1, a standard bronze reference disk, note 12c, is 4.250

meters (13.94 feet) from station in azimuth 242°52'. Reference mark No. 2, a standard bronze reference disk, note 12c, is 10.310 meters (33.83 feet) from

station in azimuth 114°08'. The azimuth mark, a standard bronze disk, note

12c, on the northeast point of the flat top and approximately at the same elevation as the station, is 0.3 mile from station in azimuth 221"34'02".

HORIZONTAL CONTROL DATA

by the Coast and Geodetic Survey NORTH AMERICAN 1927 DATUM

R

QUAD 331112 STATION 1016 ARIZ LATITUDE 33°00' TO 33°30' LONGITUDE 111°00' TO 111°30' DIAGRAM NI 12-8 MESA

ADJUSTED HORIZONTAL CONTROL DATA

PICKET POST

STATE: ARIZONA

YEAR, 1936, 1946

FIRST -ORDER

LOCALITY TONTO NAT FOREST AND WINKELMAN TO WINSLOW TO PHOENIX

G-3083.G-7605

HELD SKETCH: AR [2 14.24

				1		
GEODETIC LATITUDE	33	15	23.84530	ELEVATION	1333.9	METERS
GEODETIC LONGITUDE	111	09	25.73650		4376	FRET

STATE COORDINATES (Fet)				
STATE & JONE	CODE	ж	Y	θ (on Δ α) angle
AREZ. C.	0202	732,179.61	821,714.72	+ 0 25 00

TO STATION OR OBJECT	GEODETIC AZIMUTH (Frie maib)	PLANE AZIMUTH (Frie Maib)	CODE
AZEHUTH MARK	221 33 56.3	221 08 56	0202

55-906

RECOVERY NOTE, TRIANGULATION STATION DEPARTMENT OF COMMERCE

P. D. CALST AND SELECTE SHIVET

FORM 536

STATE: Arizona LOCALITY Superior Course Pinal.

Betantunno sv: J.B.Jr. YEAR: 1936 RECOVERED BY: D. H. Konichek

NAME OF STATION: PICKET POST

YEAR 1946

Detailed statement as to the fitness of the original description:

Station and all marks found as previously described and in good condition. The station is located about 20 miles air line northeast of Florence, about & miles southwest of Superior on the south edge and highest point of Picket Post Mountain, a prominent mountain with vertical cliffs on all sides. The station mark is a bronze disk stamped: "PICKET POST 1936", set in a boulder which projects 10 inches. It is 10 naces west of the east brim and & paces north of the south brim.

Reference mark No. 1 is a bronse disk stamped: "PICKET POST NO 1 1036", set in a boulder which projects 2 feet. It is 6 paces west of the east brim, 3 naces north of the

south brin, 18 inches higher than the station mark. Reference mark No. 2 is a bronze disk stamped: "PICKET POST NO 2 1936", set in a boulder which projects 1 foot. It is 10 paces east of the west brim and on the west-

northwest brim, and is 5 feet lower than station mark.

The azimuth mark is a bronze disk stamped: "PICKET POST 1036", set in a boulder on

a flat-topped raise 15 feet south of the north edge and 15 feet north of the south edge. To reach station from the Queen Creek bridge in Superior; go south on the Ray road 0.6 mile to a road right; turn right, go 0.55 mile to a fork; turn left, go 1.8 mile to a fork; keep right, go 0.4 mile to a gate; mass through the gate and continue 0.8 mile to another gate; pass through gate and continue on road 1.2 mile to end of truck travel

at top of a small ridge. From here walk northerly up ridge to base of mountain, thence un steep slope to top keeping to the left of the vertical cliffs; thence right to highest point and station as described above. A 2 hour pack,

HOR. DISTANCE DIRECTION OBJECT Heters **NICK 1946** 0 00 00 H.W.No.2 1936 ANN 0 46 58 10.325 108 11 49.8 Azi.Mk. 1936 0.3 | ile R.M.No.1 1936 NE 4.238 129 29 49

Observations made from a 1,2 meter tripod.

R.W. Warner

AUG

1969

JULY 1966

U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY REVISED JUNE 1969

HORIZONTAL CONTROL DATA

by the Coast and Geodetic Survey NORTH AMERICAN 1927 DATUM

QUAD 331112 STATION 1015 ARIZ LATITUDE 33°00' TO 33°30' LONGITUDE 111°00' TO 111°30' DIAGRAM NI 12-8 MESA

ADJUSTED HORIZONTAL CONTROL DATA /// $^{\circ}$

PASTURE

NAME OF STATION STATE AREZONA

YEAR: 1936

SECOND-ORDER

LOCALITY: PAPAGO INDIAN RESERVATION

*OURCE G-3083

PERSONAL ARTZ 14

6W 0.53 ST 200 MAY	* 1 *	The second second	100000
GEODETIC LATITUDE:	33 10 00-66988	ELEVATION:	matters
GEODETIC LONGITUDE	111 21 12-22760	TOWN SCIENCES	rett

ETATE COURDINATES (Fed)				
STATE & ZONE	CDDE			θ (on Δ α) ANGLE
ARIZ. C.	0202	672,362.98	788,673.46	+ 0 18 29

TO STATION OR OBJECT	(Fre unit)	PLANE AZIMUTH (From march)	CODE
AZIMUTH MARK-BENCH MARK M 108	187 08 24.4	186 49 55	0202
THESE DATA OBTAINED FROM READJUST	 MENT OF 3-69.		

55-010

Pasture (Pinal County, J. Bowie, Jr., 1936).—About 10 miles north of Florence on U.S. Highway No. 80, 6.6 miles south of Florence Junction, which is the junction of Highways Nos. 70, 80, and 60; 40 feet west of the center line of the highway, 12 feet off the fence line, 0.6 mile north of a sign "Florence 10 miles," on a ridge which is the highest point on the highway between Florence Junction and ridge which is the highest point on the highway between Florence Junction and Florence. The station and reference marks are standard disks cast on 1-inch bronze rods and projecting about 6 inches above the ground. Reference mark No. 1 is 27.124 meters (88.00 ket) from station in azimuth 276°47′. Reference mark No. 2 is 27.934 meters (91.65 ket) from station in azimuth 14°15′. The azimuth mark is a standard U. S. Coast and Geodetic Survey bench mark stamped "M 108 1934," on the right-of-way funce line on the west side of the highway and 0.5 mile from the station in azimuth 27°18°20°10′.

U. S. DEPARTMENT OF CONMERCE - COAST AND GROCEFIC SURVEY RECOVERY NOTE, TRIANGULATION STATION

R

NAME OF STATION: PASTURE

Revasioned at: J.B.Jr. Yeas: 1936 Brave: Arizona RECOVERED BY: A.M.S. Year: 1956 COUNTY: Pinal

Detailed statement as to the fitness of the original description; including marks found, stampings, changes made, and other pertinent facts:

Station unable to locate.

Reference marks 1 and 2 were found.

and 0.5 mile from the station in azimuth 187°08'26".

Appearance of grading along highway right-of-way indicated probable destruction of mark.

Pore 526 (11-8-85)

U.S. DEPARTMENT OF COMMERCE - COAST AND GRODETIC SUBVEY RECOVERY NOTE, TRIANGULATION STATION

R

NAME OF STATION: PASTURE

Established BY: J. Bowle Jrysas: 1936 State: Arizona RECOVERED BY P. A. Weber YEAR 1964 County Pinal

Detailed statement as to the fitness of the original description; including marks found, stampings, changes made, and other pertinent facts:

The station was not recovered. A thorough search and lecal anguiry indicates the station has been destroyed in the new road construction. An hour was spent in searching for the station.

(Army Map Service 1966) -- All marks were searched for but not found. Apparently been destroyed by road improvement.

John I Quesmager

"Name of third of party should be inserted here. The officer who attacily visited the station obsold sign his name at the end of the rese Norm.—One of these lumps must be used for every station recovered.

JULY 1966
PUBLISHED AND PRINTED BY:
U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
WASHINGTON D.C.

Note, + 2

Note.*

HORIZONTAL CONTROL DATA

by the Coast and Geodetic Survey NORTH AMERICAN 1927 DATUM

STATE: AFIZ

CODE: 0202

ZONE: C

762,055.93

881,298.92

ARIZONA

FIELD SKETCH: ARIZ 24

QUAD 331112 STATION 1011 ARIZ LATITUDE 33°00' TO 33°30' LONGITUDE 111°00' TO 111°30' DIAGRAM NI 12-8 MESA

33 15

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: MILES

Second -ORDER Triangulation Se

184 20 53 + 0 28 23

AZIMUTH MARK

GEODETIC	POSITION		SECONDS IN METERS	ELEVATION	1
DATA	LATITUDE: 33°25'11".059 LONGITUDE: 111 03 28.150	NORTH WEST		1,462.9	HETERS FEET

111 03 20:130	V VEST	4,800	FEET
TO STATION	GEODETIC AZIMUTH	DISTA	HCE
	(Press coult)	LOGARITHM (Wolcen)	HETERS
AZIMUTH MARK	THIRD-ORDER 184°49'16"5		

USCOMM-ESSA-ASHEVILLE

FILE GOPY

Reference mark, No. 1 Note, 12a
Reference mark, No. 2 Note, 12a
Raimath mark, Note, 12a
Witness mark
Height of lelescope above station mark
Detailed descriptions
The station is located about northeast of Superior, on a hill

Portin 826 Rev. Oct., 1933

CHIEF OF PARTY: D.H.Konichek

NAME OF STATION: HTLES

Surface-station mark,

Underground-station mark,

STATE: Arizona County: Pinal YEAR: 1946 LOCALITY: Piami DISTANCES AND DIRECTIONS TO REFERENCE MARKS AND PROMINENT OBJECTS WHICH CAN BE SEEN FROM THE GROUND MYLIAE DIRECTION HATTON 1947 00 00 00 00 R.M.No. 1 EME 296 49 25. 10.756 R.M.No. 2 SE 8.715 21 03 09. H appropr. Az. Ek. 0.6 mile airline. 226 18 09.0

The station is located about 12 miles west-northwest of Fiami, about 9 miles northnortheast of Superior, on a hill between the West fork of Pinto Creek and Haunted Canyon, it is on the highest point of a hill with higher hills to the west and southwest, 8 paces south of the north brim. 3 feet east of the west brim, set in outcropping bedrock which projects 3 inches and is stamped" FILES 1946".

DESCRIPTION OF TRIANGULATION STATION

keference mark No. 1 is approximately 4 feet lower than the station, 7 paces south of the north brim, set in outcropping bedrock which projects 4 inches and is stamped "MILES NO 1 1946".

Reference mark No. 2 is approximately 4 feet lower than the station, 8 paces southeast of the northwest brim, set in outcropping bedrock flush with the ground surface and is stamped "LILES NO 2 1946".

The azimuth mark is 1.1 mile by road north from the end of truck travel, at a sharp curve in road to the right, approximately 30 feet northeast of and approximately 15 feet higher than the center line of road, set in outcropping bedrock flush with the ground surface and is stamped "MTLES 1946".

To reach from Minmi, go west on U.S. Highway # 60 & #70 for 5.0 miles to the junction with Castle Dome Road; turn right (N) for 2.4 miles to a side road left(Pinto Creek road); turn left down hill for 2.2 miles to a fork and sim "Miles Ranch and Pirto Creek road", take the right fork down hill for 3.9 miles to a fork; take left fork on Miles Ranch road, cross Pinto Creek and follow main graded road for 2.95 miles to the second cattle guard; continue 0.55 mile to end of truck travel at a triangular blazed oak tree on left. This point is 0.1 mile before reaching summit. From here walk west about 100 yards to a wash, then right up wash to base of ridge, then right up ridge to highest point and station as described above. A 45 minute pack.

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

HORIZONTAL CONTROL DATA

by the **Coast and Geodetic Survey** NORTH AMERICAN 1927 DATUM

QUAD 331112 STATION 1012 ARIZ LATITUDE 33°00' TO 33°30' LONGITUDE 111°00' TO 111°30' DIAGRAM NI 12-8 MESA

33 00

DEPARTMENT OF COMMERCE

Detailed description:

DESCRIPTION OF TRIANGULATION STATION

STATE: Arizona

Bay, Oct., 1933			
IAME OF STATION : HI	CK		
HIEF OF PARTY D.	H. Konic	hek .	_
urface-station mark,		Note, 2	
Inderground-station m	ark,	Note,*	ŀ
leference mark, NO.		Note, 12a	ŀ
leference mark, NO.		Note, 12a	ŀ
zimuth mark,		Note,*11c	l
Witness mark,		Note,*	l

WASHINGTON D.C.

Height of light above station mark

LOCALITY: Superior YEAR: 1940 DISTANCES AND DIRECTIONS TO REFERENCE MARKS AND PROMIMENT DEJECTS WHICH DISTANCE 00 00 00.00 FRASER 1938 22.934 114 22 00. R.M.No.1 1946 E meters AZ 1K 1946 H Approx 5,171 317 13 57. Height of telescope above station mark. 79beters. 1 0.7 mile airline.

288 45 21.7 The station is located about 8 miles airline east of Florence Junction and about 0.5 miles airline west-southwest of Superior, about 1.3 mile south-southwest of the point where shitford Canyon junctions with Queen Creek, it is on a small knoll about 125 yards north of U.S. Highway #60 & 70, o paces east of the west break of knoll, set in outcropping bedrock which is 4 inches below the ground surface and is stamped

County: Pinal

PIRECTION

Reference mark No. 1 is approximately 4 feet lower than the station 12 feet west of a large cactus, set in an outcropping bedrock flush with the ground surface and is stamped "NICK NO 1 1946".

Reference mark No. 2 is approximately 6 inches lower than the station, set in outcropping bedrock flush with the ground and is stamped "NICK NO 2 1946".

The azimuth mark is 1.1 mile by road west of station on U.S. Highway # 60 & # 70. 12 feet south of highway set in the south end of a concrete culvert which projects approximately 14 inches and is stamped "NICK 1946".

To reach from the post office in Superior; go west on U.S. Highway # 60 & # 70 for 4.8 miles to bridge across Queen Creek; continue 2.4 miles to a roadside parking area and the end of truck travel; from this point pack north to top of small knoll and station site approximately 125 yards.

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION:

YEAR: 1946

ELEVATION

STATE: AP1Z

LOCALITY: Tonto National Porest and

Winkelman to Winslow to Phoenix

FIELD SKETCH: ARIZ 24 Second - ORDER Triangulation SOURCE: G=7605

GRID DATA	COORDINATES (Feet)	PLANE ASIMUTH 0 IORÁCO ANGLE	MARK
STATE: APIZ ZONE: E CODE: O201	* 183,549.39 , 828,364.68	92°36'14" - 0 34 05	AZIMUTH MARK
STATE: Ariz ZOME: C COOE: 0202	2 718,416.66 7 827,543.19	91 38 38 + 0 23 31	AZIMUTH MARK

	POSITION	METERS				
GEODETIC DATA	LATITUDE: 33°16'22"473	NORTH WEST		795.2 2,609	METERS FEET	
TO STATION				DISTANCE		
			C AZIMUTH	LOGARITHM (Metern)	NETERS	
					and the second	

AZIMUTH MARK

THIRD-ORDER 9200210818

SECONDS IN

LEBurdine 18

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

HORIZONTAL CONTROL DATA

by the Coast and Geodetic Survey NORTH AMERICAN 1927 DATUM

QUAD 331112 STATION 1021 ARIZ LATITUDE 33°00' TO 33°30' LONGITUDE 111°00' TO 111°30' DIAGRAM NI 12-8 MESA

DESCRIPTION OF TRIANGULATION STATION

364" (hor" 2844)	
NAME OF STATION: SUPERIOR	
CHIEF OF PARTY: D.H. Konick	nek
Surface-station mark,	Hate,* L
Underground-station mark,	Nate,*
Reference mark, No. 1	Hote,*12c
Reference mark, No. 2	Note,*12c
Azimuth mark,	Note,*12c
Witness mark,	Note,*
Height of light above station mark	meters.

County: Pinal BIATE: Arisona YEAR: 1946 LOCALITY: Superior DISTANCES AND DIRECTIONS TO REFERENCE MARKS AND PROMINENT OBJECTS WHICH CAN BE SEEN FROM THE GROUND HOT . DISTANCE DURECTION ATHMUTH Meters PICKET POST 1936 00 00 00,00 4.792 106 46 58. R.M. No. 2 R.M. No. 1 NNE 7.038 177 42 04. meters. 206 56 27.4 Az, Mk. 0,2 mile NE Height of telescope above station marid... 6 meters-1

Detailed description: The station is located about 1.5 mile air line northwest of Superior and about 2 miles southwest of the Silver King mine on a small brush covered hill. The station mark is stamped; "SUPERIOR 1946" and is set in a boulder which projects 3 inches. It is 100 feet northwest of and 5 feet higher than the road.

Reference mark No. 1 is stamped: "SUPERIOR NO 1 1946" and is set in a boulder which projects 4 inches. It is 6 inches higher than station mark.

Reference mark No. 2 is a bronze disk stanned; "SUPERIOR NO 2 1946" and is set in a boulder which projects 3 inches. It is at the same elevation as the station mark. The azimuth mark is stamped: "SUPERIOR 1946" and is set in a boulder which projects 6 inches. It is 3 feet west of a four-foot rock cairs on highest point of the ridge.

To reach station from the post office in Superior, go west on U. S. Highway #60 and 70 for 1.8 mile to sirport on left and a road right; turn right off highway, go 0.6 mile to a fork; turn right, go 1.3 mile to station on left. A drive station.

ADJUSTED HORIZONTAL CONTROL DATA

SUPERIOR NAME OF STATION

YEAR: 1946

STATE: AP1Z

LOCALITY: Tonto National Forest and

Winkelman to Winslow to Phoenix

Second .ongen Triangulation

SOURCE: G-7605 FIELD SKETCH: ARIZ 24

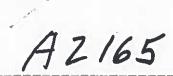
GRID DATA	COORDINATES (Pool)	PLANE AZIMUTH 8 ION ACT ANGLE	MARK
STATE: APIZ ZONE: E CODE: 0201	210,595.71 9 841,063.54	242°26'48" - 0 31 13	AZIMUTH MARK
STATE: APIZ ZONE: C COOK: 0202	x 745,245.12 y 840,693.16	241 29 08 + 0 26 27	AZIMUTH MARK

	POSITION			ELEVATION			
LATITUDE: LONGITUDE:	33°18'30"648 111 06 50.165	HORTH WEST		960.6 3,152	METERS FEET		

		GEODETIC AZIMUTH	DIST	HCE	
	NOITATE OF	(Prom south)	LOGARITHM (Wetere)	HETERS	
	AZIMUTH MARK	THIRD-ORDER 241°55'34"9			-

R.W. Warner

USCOMM-ESSA-ASHEVILLE



North American Datum Conversion NAD 27 to NAD 83 A 2 165 NADCON Program Version 1.01 North American Datum Conversion

FIG. 10 STORE SHORT SHOPE SHOP		CONTROL CONTRO	The state of the s
Tran	sformation #:	1 Region	: Conus
Station name: APACHE			
	Latitude	La	ngitude
NAD 27 datum values:	33 15 45.983	111 03	40.377
NAD 83 datum values: NAD 83 - NAD 27 shift values:	33 15 46.189		42.801
MHD 63 - MHD 27 SHITC VALUES:	.206 6.338		2.424(secs.) 62.735(meters)
Magnitude of total shift:	tal a larvaria	63.054 (meters)	
Tran	sformation #:	2 Region	: Conus
Station name: BM "Y 107 1935	11		
Station name: Bn Y 107 1735			
	Latitude	Lo	ngitude
NAD 27 datum values: NAD 83 datum values:	33 18 54.914	111 02	7.995
NAD 83 datum values:	33 18 55.116	111 02	10.416
NAD 83 - NAD 27 shift values:	.202 6.211		2.421(secs.) 62.620(meters)
Magnitude of total shift:	turi mi aira atri atr	62.928(meters)	
Tr	sformation #:	3 Region	
।। तः।।	STOURACTON #:	- region	: UCHUS
Station name: GOV'T HILL			
	1 - 4 1 4		
NAD 27 datum values:	Latitude 33 24 17.449	LO	ngitude 26.812
NAD 83 datum valuės:	33 24 17.641	111 05	29.242
NAD 83 - NAD 27 shift values:	. 192		2.430(secs.)
	5.920		62.796(meters)
Magnitude of total shift:		63.074(meters)	
Tran	sformation #:	4 Region	: Conus
Early 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
Station name: HEWITT RIDGE			
	Latitude	Lo	ngitude
NAD 27 datum values:	33 21 2.870	111 13	13.240
NAD 83 datum values:	33 21 3.064		
NAD 83 - NAD 27 shift values:	. 194 5.971		2.448(secs.) 63.299(meters)
Magnitude of total shift:	J. 7/1	63.580(meters)	
		over test to have been on. I III has been been I and if	

							Page	2
т.	ransford	nation	***	5	Regi	. cn:	Conus	
Station name: HORRELL								
Sport to Supr to the First First Sport Spo								
		Latit	ude			Lone	gitude	
NAD 27 datum values:		29	17.627		1,11			
NAD 83 datum values:	33	29	17.813		111	01	6.958	
NAD 83 - NAD 27 shift value	es:		. 186				2.422(se	
Magnitude of total shift:			5.741	62.785(1	62.522 (me	ters)
ragintade or total sinic.				021/00/(ne cer	⇒ /		
Т	ransform	nation	#:	6	Regi	on:	Conus	
Station name: IRON MTN (U	SGS)							
As the state of th		Latit					gitude	
NAD 27 datum values:			57.514		111			
NAD 83 datum values: NAD 83 - NAD 27 shift value	33	RD	57.702		111	10	13.090 2.441(se	
MHD 00 - MHD 27 SHITC VALU			5.784				441 (sec	
Magnitude of total shift:			D. / UT	63.323(neter	· e5)		
Ti	ransform	nation	# :	7	Regi	on:	Conus	
Station name: KINGS CROWN								
		Latit	ude			i opi	gitude	
NAD 27 datum values:	33		53.548		111			
NAD 83 datum values:	33		53.767		111		15.768	
NAD 83 - NAD 27 shift valu	es:		. 199				2.426(sed	:s.)
			6.139				62.748 (met	ters)
Magnitude of total shift:				63.048(neter	s)		
T	ransfora	nation	# 1	В	Regi	on:	Conus	
Station name: LA BARGE								
		Latit	ude			Lone	gitude	
NAD 27 datum values:	ক্ত		18.345		111			
NAD 83 datum values:			18.551		111			
NAD 83 - NAD 27 shift value			. 186			_ `	2.450(sed	15.)
			5.719				63.289 (met	
Magnitude of total shift:				63.547(neter	s)		
т.	ransform	nation	oble m	9	Dani.	mm = 1	Conus	
		ier r T U I I	TT ni		negi	CH Fi	CUITA	
Station name: MAGMA SMOKES	STACK							
NO. 22 22 1 1 1	PRINCE AND THE	Latit	ude			Long	gitude	

33 17

33 17

40.870

41.072

.202

6.210

NAD 27 datum values:

NAD 83 datum values:

NAD 83 - NAD 27 shift values:

Magnitude of total shift:

111 06

111 06

63.222 (meters)

37.870

40.302

2.432(secs.)

62.917 (meters)

Transformation #: 10 Region: Conus

Station name: MOUND MOUNTAIN

NAD 27 datum values: 33 28 21.406 111 08 14.554

NAD 83 datum values: 33 28 21.591 111 08 16.991

NAD 83 - NAD 27 shift values: .185 2.437 Latitude Longitude

2.437(secs.) 62.925 (meters)

Magnitude of total shift: 63.182(meters)

Transformation #: 11 Region: Conus

Station name: PINE

 Latitude
 Longitude

 NAD 27 datum values:
 33 29 49.252
 111 06 42.419

 NAD 83 datum values:
 33 29 49.435
 111 06 44.853

 NAD 83 datum values: NAD 83 - NAD 27 shift values: 111 06 44.853 . 183 2.434(secs.) 5.649 62.828(meters)

Magnitude of total shift: 63.081(meters)

Transformation #: 12 Region: Conus

Station name: PINTO (USGS)

Latitude Longitude NAD 27 datum values: 33 27 42.551

NAD 83 datum values: 33 27 42.737

NAD 83 - NAD 27 shift values: .186 111 07 5.006 111 07 7.440 2.434(secs.) NAD 83 datum values: . 1.86

5.742 62.865 (meters)

Magnitude of total shift: 63.127(meters)

Transformation #: 13 Region: Conus

Station name: REEVIS

Latitude Longitude
33 29 12.430 111 09 27.180
33 29 12.613 111 09 29.620 NAD 27 datum values: NAD 83 datum values: 33 29

NAD 83 - NAD 27 shift values: . 183 2.440 (secs.) 5.644 62.984 (meters)

Magnitude of total shift: 63.236(meters)

Transformation #: 14 Region: Conus

Station name: ROAD T.B.M.

 Latitude
 Longitude

 NAD 27 datum values:
 33 26 58.146
 111 00 31.479

 NAD 83 - NAD 27 chiff
 33 26 58.336
 111 00 33 000

 111 00 33.899

58.336 .190 NAD 83 - NAD 27 shift values: 2,420(secs.) 5.856 62.497 (meters)

Magnitude of total shift: 62.771 (meters)

Transformation #: 15 Region: Conus Station name: SUMMIT Longitude 111 13 56.872 111 13 59.322 Latitude NAD 27 datum values: 33 16 44.400 NAD 83 datum values: 33 16 44.453 33 16 44.453 59.322 NAD 83 - NAD 27 shift values: . 200 2.450(secs.) 6.158 63.403 (meters) 63.702(meters) Magnitude of total shift: Transformation #: 16 Region: Conus Station name: TRAIL

 Latitude
 Longitude

 NAD 27 datum values:
 33 24 17.076
 111 09 14.289

 NAD 83 datum values:
 33 24 17.267
 111 09 16.728

 NAD 83 - NAD 27 chift values:
 101 09 16.728

 111 09 16.728 NAD 83 - NAD 27 shift values: . 191 2.439(secs.) 63.021(meters) 5.873 Magnitude of total shift: 63.294(meters) Transformation #: 17 Region: Conus Station name: WHITFORD NAD 83 datum values: 33 20 13.843
NAD 83 - NAD 27 shift values Longitude 111 08 34.057 111 08 36.494 NAD 83 datum values: NAD 83 - NAD 27 shift values: 2.437(secs.) 6.068 63.018(meters) Magnitude of total shift: 63.310(meters) Transformation #: 18 Region: Conus Station name: 1-36 A Latitude 33 29 44.912 1 Longitude 111 13 17.480 NAD 27 datum values: 33 29 NAD 83 datum values: 33 29 45.093 111 13 19.928 NAD 83 datum values: 35 27 45.075
NAD 83 - NAD 27 shift values: .181
5.573 . 181 2.448(secs.) 63.189 (meters) Magnitude of total shift: 63.434(meters) Transformation #: 19 Region: Conus Station name: 2-349 A NAD 27 datum values: 33 15 56.670 111 07 25.710

NAD 83 datum values: 33 15 56.874 111 07 28.344

NAD 83 - NAD 27 shift values: .204 56.874 111 07 28.344 .204 2.434(se 6.280 62.983(me 2.434(secs.) 62.983 (meters)

63.295(meters)

Magnitude of total shift:

63.348 (meters)

62.562(meters)

Transformation #: 20 Region: Conus

Station name: 4-90 A

Latitude Longitude
NAD 27 datum values: 33 26 25.214 111 01 30.433
NAD 83 datum values: 33 26 25.405 111 01 32.855
NAD 83 - NAD 27 shift values: .191 2.422(sec

. 191 NAD 83 - NAD 27 shift values: 2.422(secs.) 5.870 62.555 (meters)

Magnitude of total shift: 62.830(meters)

Transformation #: 21 Region: Conus

Station name: 7-1112 A

Latitude Longitude

NAD 27 datum values: 33 24 15.193 111 14 46.998

NAD 83 datum values: 33 24 15.381 111 14 49.450

NAD 83 - NAD 27 shift values: .188 2.4520

Magnitude of total attach 2.452(secs.) 2.452(secs.) 63.350(meters)

63.615(meters) Magnitude of total shift:

Transformation #: 22 Region: Conus

Station name: 7-1113 X

 Latitude
 Longitude

 NAD 27 datum values:
 33 22 47.749
 111 14 24.067

 NAD 83 datum values:
 33 22 47.940
 111 14 26.518

 NAD 83 - NAD 27 shift values:
 .191
 2 45.74

 .191 5.876 2.451(secs.)

Magnitude of total shift: 63.620(meters)

Transformation #: 23 Region: Conus

Station name: 11-1564 A

Latitude Longitude
NAD 27 datum values: 33 16 6.260 111 01 4.650
NAD 83 datum values: 33 16 6.466 111 01 7.067
NAD 83 - NAD 27 shift values: .206 2.417(
6.356 62.562(2.417(secs.)

Magnitude of total shift: 62.884(meters)

NAD 27 to NAD 83 Conversion

Statistics for Region

	Latitude	Longitude
	MIN MAX	MIN MAX
Range of shift (meters)	5.573 6.356	62.497 63.403
Range of shift (seconds	. 181 . 206	2.417 2.452
Mean shift (met	ers) 5.934	62.935
Variance of mea		. 081
Std. Dev. of me		. 284
Mean shift (sec	onds) .193	2.435
Variance of mea	n shift .000	.000
Std. Dev. of me	an shift .008	.011

The total number of conversions: 23

Region of Conversions

NAD 27							
Longitude:	111	14	46.998		111	00	31.479
Latitude:	33	29	49.252	******	33	29	49.252
			*				*
			*				*
			*				*
			ж				ж
			*				*
			*	NAD 27			*
			*	data			*
			*	points			*
			*				*
			ж				*
			*				*
			*				*
,			*				*
Latitude:	33	15		*****	33	15	45.983
Longitude:	111	14	46.998		111	00	31.479