32 111 13

Supplementary Horizontal Control Station

| Station_ | 7-1088 A | | County_ | Pinal | | State_ | AZ Quad | No. 96 |
|----------|------------|---------|---------|-------|---|---------|---------|--------|
| Project_ | РН 988 | | | · | | Year_ | 1967 | |
| Surveyed | by checked | (x) or | unchecl | ked (|) | methods | | |

Description:

Located about 20 mi S. of Florence, about 18 mi SE. of Coolidge, about 10 mi E. of Eloy, about 2 mi NE. of Newman Peak.

To reach from jct. of State Hwy. 84 and 87, drive E. 4.1 mi to end of rd.; turn right 1.1 mi to fence corner and gate, pass through gate and keep right 0.6 mi to Y-rd., keep right 0.5 mi to reverse-Y; turn sharp right 1.5 mi to rd. in wash; turn right up wash 1.2 mi to end of rd. and end of truck travel. Top with station is visible from here. Pack up wash and second ridge to right to high point and station.

Station mark: Chiseled cross on bedrock.

| THIRD ORDER | NGS QUAD 32 111 13 | | | | |
|---|--|--|--|--|--|
| ARIZONA CENTRAL ZONE X COORDINATE 663716.13 | UTM ZONE 12 | | | | |
| Y COORDINATE 634726.35 . | 464005 .7 5 | | | | |
| MAPPING ANGLE +0 17 17 | -0 12 28 | | | | |
| ELEVATION | 3517.6 FEET 1072.2 METERS | | | | |
| 7-1088 A LAT | 32 44 37.831 LONG 111 23 3.106 | | | | |
| | D DIRECTION DISTANCE A-O A-O FT | | | | |
| STATIONS OBSERVED BY THIRD ORDI | ER METHODS FROMCOSM PH 988 A 1963 | | | | |
| 2514 | 53 46.3 41919.8 13.2 29 0.3 40378.0 -10.5 | | | | |
| TDEADISAV | | | | | |

32 111 13

Supplementary Horizontal Control Station

| Station_ | BM X-292 | | County Pima | State_ | AZ | _Quad | No | 96 |
|----------|------------|---------|-------------|------------|------|-------|----|----|
| Project_ | РН 596 | | | Year_ | 1958 | | | |
| Surveyed | by checked | (x) or | unchecked (| methods | | | | |

Description:

Described in NGS Level Line 104.

Located about 9.5 mi NW. of Marana, 6.0 mi SW. of Red Rock; in fence corner 3.4 ft SW. of GLO section corner T10S CC S1 S6 R9E R10E T11S 1911 on iron pipe.

Station mark: NGS BM "X-292 1951".

THIRD ORDER

NGS QUAD 32 111 13

ARIZONA CENTRAL ZONE
X COORDINATE 667960.28
Y COORDINATE 546498.68
MAPPING ANGLE +0 17 34

465067.05 3595871.33 -0 11 59

UTM ZONE 12

ELEVATION

ELEVATION 1857.985 FEET

566.315 METERS

BMX 292 PH 595 A 1958 LAT 32 30 4.570

LONG 111 22 18.710

STATION NAME

OBSERVED DIRECTION

DISTANCE

A-O A-U FT

STATIONS OBSERVED BY THIRD ORDER METHODS

SILVER BELL SASCO 53 29 2.1 116 10 1.3

51089.3

0.3

NAD 83 VALUES AVAILABLE

APR 20 1978

32 111 13

Supplementary Horizontal Control Station

| Station_ | 1/8S/10E | (8) | _County | Pinal | State_A | Z Quad No. 96 |
|-----------|------------|--------|-------------|--------------|--|--|
| Project | PH 596 | | | | Year | 1958 |
| | | (v) o | r unchaolea | | The state of the s | |
| sur veyed | by checked | (X) 0 | r unchecke | <u>u ()</u> | methods | National Control of the Control of t |

Description:

Located about 13 mi NNE. of Red Rock, 11 mi N. of station RED ROCK; along fence line that crosses Red Rock-Midway Rd. at north end of Red Rock Mtn. and runs due N.

Station may be reached by driving along this fence.

Station reached by helicopter.

Station mark: USGLO pipe stamped "S1 S12", projecting 1.6 ft above ground.

| THIRD ORDER | NGS QUAD 32 111 13 |
|---|--------------------------------------|
| ARIZONA CENTRAL ZONE | UTM ZONE 12 |
| X COORDINATE 702162.26 | 475724•49 3623196•04 |
| Y COORDINATE 636474.29 MAPPING ANGLE +0 21 21 | -0 8 24 |
| ELEVATION | 2121.9 FEET 646.8 METERS |
| SC 1/8S/10E (8) | LAT 32 44 52.990 LONG 111 15 32.850 |
| STATION NAME OBSE | SERVED DIRECTION DISTANCE A-D A-D FT |
| STATIONS OBSERVED BY THIRD | ORDER METHODS FROMECC PH 595 A 1958 |
| ELMER USGS | 281 55 13.8 R 33873.5 -4.4 0.6 |
| NORTH HILL | 270 16 48.4 R 35046.3 4.3 |

NAD 83 VALUES AVAILABLE

APR 20 19/8

32 111 13

Supplementary Horizontal Control Station

| Station "7" BM ADS 19 | County_ Pinal | State_ | AZ Quad No. 96 |
|-------------------------|---------------------|--------|----------------|
| Project PH 596 | | Year | 1958 |
| Surveyed by checked () | or unchecked (x) m | ethods | |
| | | | |

Description:

Described in USGS Level Line 9 as follows:

Red Rock Post Office, 1.4 mi NW. along Hwy. 84, thence 6.2 mi NE. from along pipe line rd.; 300 ft SW. of gate, 22 ft SE. of center of rd.; in concrete post; standard tablet stamped "ADS 19 2110 1946".

Station found as described.

Station mark: Standard BM tablet stamped "ADS 19 2110 1946", set in Databased 17 concrete post.

Note: No check on this position. Not third order, 1 set T-2.

NOT THIRD ORDER

NGS QUAD 32 111 13

ARIZONA CENTRAL ZONE

ELEVATION 2110.247

UTM ZONE 12 475584

X = 701993

3612971

Y = 602913

FEET 640.157

METERS

LAT 32 39 20.909

LONG 111 15 37.268

NAD 83 VALUES AVAILABLE

APR 20 1378

United States Department of the Interior

Geological Survey term No. 9-322.3 Rev. 1977

Description Horizontal Control Station

NGS Wyad No. 32 111 13 USGS Quad No. 96

Station SASCO USGS

Diagram TUCSON

County PINAL

State AZ

THIRD order TRIANGULATION

Established By USGS Year 1934 Project D3238-52

USGS UNADJUSTED 1983 coordinates

Latituce:

N32 33 2.800_

Longitude: W111 28 2.300 Unverified Elevation:

2425 Feet 739 Meters

X:

UTM Zone 12(Meters): X: 456125.23 Y: 3601394.60

Mapping Angle: -0 15

AZ State Zone E(Feet): X:

99226.59 Υ: 566527.68

Mapping Angle: -0 42 0

AZ State Zone C(Feet):

638459.80 Y: 564372.06

Mapping Angle: +0 14 30

LUCATED ABOUT 1.25 MT N. 58 DEGREES W. OF OLD SASCO SMELTER STACK; ON HIGHEST POINT OF SMALL GROUP OF RED HILLS.

TO REACH FROM SASCU, GC ALONG RED ROCK-SILVER BELL RD. ABOUT 1.5 MI; GO 0.5 MI NW.

STATION MARK: STANDARD BRONZE TABLET STAMPED "SASCO K 1934", SET IN CONCRETE FLUSH WITH GROUND.

KMS: NONE SET.

NAD 83 VALUES AVAILABLE

Form No. 9-322.3 Rev. 1968

DESCRIPTION HORIZONTAL CONTROL STATION

| 32 | 111 13 |
|------------|--------|
| DIAGRAM Tu | cson |
| USGS QUAD | ~ / |

METERS

| 3rd Order | | | | |
|--------------------------|-----------------------|----------------|--------------------|---------------|
| Triangulation 🖾 | Electronic - Dist | ance Traverse | Intersected Object | |
| Station PICACHO USGS | | | StateAZ | |
| Established byUSGS | | | | 6-97 |
| Check one: | | . ' | , | |
| New Station: Write | full description belo | ow. | | |
| ☐ Recovery of Old Statio | n: Recovered by | | Year | Project |
| Object | Bearing | Distan | | AZIMUTH |
| Object | Bearing | Feet | Meters | 713110111 |
| BLACK MTN | | | | 248°37'49.0" |
| DLACK HIN | | | | 240 37 43.0 |
| | | | | |
| | ' ' | ' | | |
| | | | | |
| Described in Bul. 245 | 200 17/ 20 | follows | | |
| Described in Bur, 245 | , page 174 as | TOTTOWS. | | |
| On the high prominent | peak named P | icacho, 1 mi S | . of Wynola | Siding on the |
| Southern Pacific RR., | | | | |
| | | | | |
| Station mark: Standa | rd tablet cen | tered under la | rge rock mon | ument. |
| RMs: None established | 1. | | | |
| | | | | |
| USGS Adjusted 1954 Cod | ordinates | | | |
| | | | | |
| | | | | • |
| | | | • | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| FIRST ORDER | | | NGS QUAD 3 | 2 111 13 |
| ARIZONA CENTRAL | プロネ: S | | | UTM ZONE 12 |
| X COORDINATE 65909). | | | | 462492.22 |
| Y COURDINATE 595136.4 | | | | 3610714.23 |
| MAPPING ANGLE +0 16 | | | | -) 12 56 |

NAD 83 VALUES AVAILABLE

FEET

32 38 6.3030 LONG 111 23 59.5180

APR 20 1978

ELEVATION

PICACHO USGS

LAT

UNITED STATES

ARTMENT OF THE INTERIOR

Geological Survey

Form No. 9-322.3 Rev. 1968

DESCRIPTION

32 111 13
DIAGRAM Tucson
USGS ONAD NO. 96

| Form No. 9+322.3 Rev. 1968 | ORIZONT | AL CONTROL | STATION U | SGS QUAD NO. 90 |
|---|------------------|----------------|-----------|----------------------------------|
| 3rd Order | ctronic - Dis | rance Traverse | } | Intersected Object StateAZ 41 |
| Check one: ☐ New Station: Write ful ☐ Recovery of Old Station: | I description be | low | _ Year | Project |
| - Recovery of the | 1 1 | | tance | |
| Object | Bearing - | Feet | Meters | AZIMUTH |
| SILVER BELL | | | | 43°25'30.0" |

Highest point on most easterly ridge of black lava, SE. of old Sasco Smelter stack, S. of well derrick.

Station mark: Standard bronze tablet set in concrete.

RMs: None established.

USGS Adjusted 1958 Coordinates

| THIRD CROER | | NGS QUAD 32 111 13 | | | | |
|---------------|-----------------|--------------------|-----------------|--|--|--|
| ARIZUI | NA CENTRAL ZONE | | UTM ZONE 12 | | | |
| X COORDINATE | 660993.38 | | 41 2958 • 95 | | | |
| Y COORDINATE | 552097.63 | | 3597595.55 | | | |
| MAPPING ANGLE | +0 16 51 | | -0 12 43 | | | |
| | ELEVATION | FEET | METERS | | | |
| FIG USGS | ί_ Δ | T 32 31 0.320 LONG | 3 111 23 39.740 | | | |

NAD 83 VALUES AVAILABLE APR 2 0 1978

DESCRIPTION

32 111 13 Tucson

| Form No. 9-322.3 Rev | v 1068 | JESCKIP II O | | AGRAM 10001 |
|----------------------|------------------------|-----------------------|---------------|--------------------|
| 1st Order | HORIZ | ONTAL CONTROL | STATION US | sgs quad no. 96 |
| Triangulation 🗵 | Electronic | - Distance Traverse [|] | Intersected Object |
| StationSASCO | | County Pina | 1 | StateAZ |
| Established byNO | SS | Year 1935 | | |
| Check one: | | | _ 110,000 | |
| | Write full descripti | ion below | | |
| Recovery of | Old Station: Recovered | by USGS | Year1958 | Project PH 596 |
| | | Dist | ance | |
| Object | Bearin | g Feet | Meters | |
| | | | | |
| | | | | |
| | | 1 | | |
| | | | | 1 |
| | | | | |
| | | | | |
| | | List 32 111 1, sta | ation 1011. A | 11 marks in |
| good condition | n. | | | |
| Note, 1958: | Not occupied. | | | |
| Hote, 1950. | not occupied. | | | |
| NGS Adjusted | Coordinates | | | |
| _ | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| FIRST ORDE | - R | | NGS QUAD | 32 111 13 |
| , 11101 01101 | ••• | | 1100 40111 | |
| | NA CENTRAL ZON | E | | UTM ZONE 12 |
| X COORDINATE | 651543.09 | | | 460085.69 |
| Y COORDINATE | | | | 3598340.49 |
| MAPPING ANGLE | +0 15 52 | | | -0 13 42 |
| | ELEVATION | 2687.6 FE | FT | 819.2 METERS |
| SASCO | | LAT 32 31 24 | .1540 LONG | 111 25 29.9800 |
| STATION NOT | OCCUP I ED | All ages design | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

UNITED STATES

PARTMENT OF THE INTERIOR

Geological Survey

Form No. 9-322.3 Rev. 1968

DESCRIPTION HORIZONTAL CONTROL STATION

32 111 13
DIAGRAM Tucson
USGS QUAD NO. 96

| П | ORIZONIAL CO | MIKOL 311 | MIION USUS | QUAD NO. | |
|--|----------------------|-----------|------------|---------------------|--|
| 3rd Order | | | | | |
| Triangulation Elec | tronic - Distance Tr | raverse 🗌 | Ιτ | ntersected Object 🗵 | |
| Station NEWMAN PEAK BEACON | OWER Count | y Pinal | | State AZ | |
| StationNEWMAN PEAK BEACON T Established byNGS | Year_ | 1935 F | Project | | |
| Check one: | . * | | | | |
| ☐ New Station: Write full | description below | | | | |
| ■ Recovery of Old Station: R | ecovered byUS | GS | Year1963 | ProjectPH_988 | |
| Obiem | P | Distance | | | |
| Object | Bearing Fe | ect | Meters | | |
| | | | | | |
| | | 1 | | | |

Described in NGS Description List 32 111 1, station 1008.

Note, 1963: Not occupied.

NGS Adjusted Coordinates

ARIZONA CENTRAL ZONE X= 658945.26 Y= 625512.67

MAPPING ANGLE

THIRD ORDER

NGS QUAD 32 111 13

UTM ZONE 12 462527.83

3619970.06

-0 12 58

ELEVATION

FEET

METERS

LAT 32 43 06.8931

LONG 111 23 59.4906

FILE COPY

APR 20 1978

Form No. 9-322.3 Rev. 1968

DESCRIPTION

| | 32 111 13 | |
|---|------------------|---|
| | DIAGRAM Tucson | |
| N | USCS 01140 NO 96 | _ |

3rd Order

HORIZONTAL CONTROL STATION

| Triangulation 🛭 💮 E | lectronic - I | Distance Traverse | | Intersected Object |
|--|---------------------------------|-------------------|-----------|--------------------|
| Station NAVISKA Established by NGS | | | Project | StateAZ |
| Check one: ☐ New Station: Write f ☐ Recovery of Old Station: | ull description Recovered by | below USGS | Year 1958 | Project PH 596 |
| Object | Bearing | Distar Feet | Meters | AZIMUTH |
| SASCO | | | | 98°36'53.2" |
| | 0 16 | | | 1 |

Described in NGS Description List 32 111 1, station 1001 and NGS AZ Level Line 107 as follows:

In Pinal County, 4.3 mi NW. along State Hwy. 84 from post office at Marana, Pima County, 0.1 mi NW. of Pinal-Pima County Line, at Southern Pacific Co. RR.RR. Station sign at Naviska, between the old and new State Hwy. 84; 61 ft SW. of centerline of old hwy.; 39 ft NE. of centerline of new hwy.; 44.5 ft SE. of point directly under middle wire of a power-transmission line which passes over the hwy.; 2.2 ft SE. of white wooden witness post and level with hwy., A standard triangulation station disk, stamped "NAVISKA 1935" set in top of a concrete post projecting 0.4 ft above ground.

Station mark: NGS disk stamped "NAVISKA 1935", set in top of concrete post projecting 0.4 ft above ground.

Note, 1958: RM 1 and RM 2 reported destroyed. It is believed this station was reset prior to 1951. Values listed are by USGS.

USGS Adjusted 1958 Coordinates

| THIRD ORD | ER | N | GS QUAD 32 111 13 | |
|---------------|-----------------|-----------------|--------------------|--|
| ARIZO | NA CENTRAL ZONE | | UTM ZONE 12 | |
| X COURDINATE | 701571.72 | | 475309.92 | |
| Y COORDINATE | 547195.51 | | 3595995.61 | |
| MAPPING ANGLE | +0 21 5 | | -) 8 28 | |
| | ELEVATION | 1947.821 FEET | 593.697 METERS | |
| NAVISKA | | 1ÅT 32 30 9-596 | LONG 111 15 46-196 | |

Form No. 9-322.3 Rev. 1968

DESCRIPTION HORIZONTAL CONTROL STATE

| | 32 | 111 | 13 | |
|----------|-----|-----|----|---|
| DIAGRAM | Tuc | son | | |
| USGS QUA | | | 96 | _ |

| | IOKIZONI | AL CONTROL | SIMILOIA 02 | 65 QUAD NO |
|---|----------------------------------|--------------|-------------|----------------------|
| 2nd Order | | | | |
| Triangulation Ele | Electronic - Distance Traverse 🖾 | | | Intersected Object 🗌 |
| StationDESERT USGS | | County Pinal | | StateAZ |
| Established byNGS | | Year 1960 | Project | |
| Check one: New Station: Write full Recovery of Old Station: 1 | description be | elow | | |
| Olises | Descion a | Distance | | |
| Object | Bearing | Feet | Meters | <u> </u> |
| | | | | |

Station is on highest point of Desert Mountain known locally as Picacho Peak. This is the highest peak in the vicinity and was located by NGS. There was no signal mentioned in Description List 32 111 1, station 1008.

The Indian Service Survey also used the same point used by the USGS.

Station mark; Standard tablet set in rock under center of cairn.

DESERT USGS 1921 was tied to NEUMAN. Previous write-ups of DESERT USGS indicate the station was occupied, but the field books do not show an occupation.

NGS Adjusted Coordinates

SECOND ORDER

NGS QUAD 32 111 13

ARIZONA CENTRAL ZONE

X = 658946.69

Y = 625537.80

MAPPING ANGLE

NGS QUAD 32 III 13

UTM ZONE 12

462528.33

3619977.72

-0 12 58

ELEVATION

FEET

METERS

LAT 32 43 07.1417

LONG 111 23 59.4724

1 11 0007