

HORIZONTAL CONTROL DATA

by the
 National Ocean Survey
 NORTH AMERICAN 1927 DATUM

QUAD 390761 STATION 1063
 MD-PA
 LATITUDE 39° 30' TO 40° 00'
 LONGITUDE 76° 00' TO 76° 30'
 DIAGRAM NJ 18-1 BALTIMORE

PRINCIPIO (Cecil County, Md., J.F., 1845; 1878)--On the highest part of a densely wooded ridge, about 2 1/2 miles N 24° W from Charlestown and 200 yards N (magnetic) from crossroads, known locally as Foys Patch, on land owned (in 1834) by the Principio Furnace Co., and about 1/2 mile northwesterly from the furnace. In 1878, the station was re-marked with a 1-gallon stone pot, the top of which was 2.75 feet below the surface of the ground. Under the pot was placed a half-pint mineral water bottle, standing on end, exactly central with station. The pieces of the earthenware pot, which originally marked the station, were placed inside the new one. A bottle similar to the one above mentioned, was placed 3 feet below the surface of the ground, on line to MEETING HOUSE Hill station, its neck pointing toward station and 3 feet distant therefrom. The reference marks placed in 1866 were three stones each 2 feet 9 inches in length, and averaging 6 by 10 inches in thickness, sunk halfway into the ground, and each 6 feet from the station, two in line with the station and the third at right angles to this line.

PRINCIPIO (Cecil County, Md., J.F., 1845; R.D.H., 1933)--This station was recovered after a new station had been established. The new station was therefore called "PRINCIPIO 1845 ECC." The old station is about 30 inches underground and is at the bottom of an 8-inch sewer tile, the top of which comes within 5 inches of the surface of the ground and is covered by an iron plate to keep the dirt out of the tile. Dirt is covered over the plate.

Station mark is a regular bronze disk set in a block of concrete and marked "PRINCIPIO 1845." It is 0.717 meter SSE of the new station "PRINCIPIO 1845 ECC." which is a regular triangulation station mark and is described in note lb.

Of the three reference marks placed in 1866, the two listed as being 6 feet on either side of the station and in line with it are still there, but the third one at right angle to the line of the other two is gone.

To reach the station from Perryville, go NE on Route 40 for 3.7 miles to a road turning off to the left at sign "Fire Tower." Turn left on this road and go 0.35 mile to a fork, turn right and go 0.1 mile to a road turning to the left. Take this road and follow it 0.7 mile to the fire tower and the station.

PRINCIPIO (Cecil County, Md., J.F., 1845; J.B. Jr., 1935)--This is a first order station located 3 1/2 miles NE of Perryville, Md., 5.610 meters SW of the center of the Foys Hill fire lookout tower, 2.10 meters SW of the SW leg of the fire tower, 5.7 meters WSW of the SE leg of the fire tower, 0.715 meter SSE of "PRINCIPIO ECC., 1933." Mark is at the bottom of an 8-inch drain tile. The top of the tile is set 5 inches below the top of the ground. Mark is 3 feet below surface of ground.

Reference mark No. 1, Azimuth mark, is located 0.3 mile NW of the station, 50 feet W of the road, on top of the third hill (following the road) NW of the fire tower.

To reach the Azimuth mark, go back on the road leaving the fire tower, 100 yards, take left fork and go 0.3 mile to the top of the third hill and the mark. Mark is stamped "PRINCIPIO ECC. 1933, R.M. NO. 1" and projects 7 inches.

Reference mark No. 2 is 19.250 meters NNE of the station, 20 feet W of the road. Mark is stamped "PRINCIPIO ECC. 1933, R.M. NO. 2" and projects 8 inches.

Reference mark No. 3 is located 12.308 meters E of the station. Mark is set in the E edge of the clearing and projects 7 inches. It is stamped "PRINCIPIO ECC. 1933." Station "PRINCIPIO ECC. 1933" is located 0.715 meter NNW of the old station. Mark is set in a round concrete monument, measuring 10 inches at the top and projects 7 inches. It is stamped "PRINCIPIO ECC. 1845-1933."

(Continued on next page)

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: **PRINCIPIO**
 STATE: **MARYLAND** YEAR: **1845** FIRST -ORDER
 LOCALITY
 SOURCE: **G-12787** FIELD SKETCH

GEODETIC LATITUDE:	39° 35' 36.3118	ELEVATION:	94	METERS
GEODETIC LONGITUDE:	76° 00' 16.5633	SCALED		FEET

STATE COORDINATES (Feet)				
STATE & ZONE	CODE	X	Y	δ 10R Δ δ 1 ANGLE °
MD	1900	1,080,530.58	642,545.06	+ 0 37' 29"

* PLANE AZIMUTH HAS BEEN COMPUTED BY THE δ 10R Δ δ 1 FORMULA NEGLECTING THE SECOND TERM.

TO STATION OR OBJECT	GEODETIC AZIMUTH (From south)	PLANE AZIMUTH (From south)	CODE
DAWSON	134° 31' 18.4"	133° 53' 49"	1900

NY 028

HORIZONTAL CONTROL DATA

by the
 NATIONAL GEODETIC SURVEY
 NORTH AMERICAN 1927 DATUM

QUAD 390761 STATION 1063
 LATITUDE ° ' TO ° '
 LONGITUDE ° ' TO ° '
 DIAGRAM

PRINCIPIO (Continued)

To reach station from Perryville, Md., go NE on Route 40 for 3.7 miles to a sign "Foy's Hill fire lookout tower" on the left side of the road, turn left and go 0.35 mile to fork, turn right 0.1 mile to a T-road left, turn left and go 0.7 mile to the fire tower and station.

OBJECT	DISTANCE	DIRECTION
DAWSON	meters	0°00'00"0
R.M. No. 3 (PRINCIPIO ECC.)		
1933	12.308	180.02
R.M. No. 2 (PRINCIPIO ECC.)		
1933	19.250	106 26 43.1
Center of Foy's Hill fire tower	5.60	132 19
PRINCIPIO ECC. 1845 1933	0.715	25 41
R.M. No. 1 PRINCIPIO ECC.		
1933 As. Mk.	0.3 mile	70 26 43.15

PRINCIPIO (Cecil County, Md., J.F., 1845-78; J.C.P., 1937)--Station was recovered in good condition from the description of PRINCIPIO ECCENTRIC, 1845 and the recovery note of PRINCIPIO, 1845.

The angles were measured from PRINCIPIO ECCENTRIC, 1845 and the signal pole was also set over PRINCIPIO ECCENTRIC, 1845, because it is the surface mark.

The present description is adequate.

(L.G.S., 1945)--This station, as well as Principio Eccentric, was found, all marks in good condition, as described in 1933 and 1935. A light stand was built over the old station to check old angles at WELLS and OSBORNE'S RUIN 2. However, this station is about 30 inches under ground, and it is believed that the new station PRINCIPIO 1845 ECCENTRIC should be the one to which all principle data be referred. It is a well-marked station, above the surface, and is the natural one for surveyors to use. Although the azimuth to the azimuth mark is listed only to the nearest minute, directions are available to the seconds and tenths.

To reach from the toll gate at the east end of the bridge at Perryville, proceed NE along highway U.S. 40 for 4.05 miles or 0.5 mile beyond a concrete road fork right, and turn left (N) near top of grade into narrow gravelly road leading up the hill. Follow this 0.65 miles to top of hill at fire tower and station.

DEPARTMENT OF COMMERCE
 U. S. COAST AND GEODETIC SURVEY
 FORM 528
 (REV. FEB. 1968)

RECOVERY NOTE, TRIANGULATION STATION

NAME OF STATION: PRINCIPIO
 ESTABLISHED BY: J.F. YEAR: 1845 STATE: Maryland
 RECOVERED BY: J.C. Ellerbe YEAR: 1953 COUNTY: Cecil

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

Station was recovered as described by R.D.H. in 1933 and found in good condition. The 1933 description is adequate except the 3 inch sewer tile was filled with concrete and a surface mark established and is as described in Note 1b.

A check was made of the distance to PRINCIPIO ECC 1933 1845 and was found to be correct.

This Station was not occupied.

B.L. Wright

U.S. DEPARTMENT OF COMMERCE - COAST AND GEODETIC SURVEY
 RECOVERY NOTE, TRIANGULATION STATION

FORM 528
 (11-8-55)

NAME OF STATION: PRINCIPIO
 ESTABLISHED BY: J.F. YEAR: 1845 STATE: Maryland
 RECOVERED BY: R.W. Tomlinson YEAR: 1961 COUNTY: Cecil

Detailed statement as to the fitness of the original description, including marks found, stampings, changes made, and other pertinent facts:
 The station was recovered in good condition. The mark has been destroyed and PRINCIPIO 2 established, as requested by the Mason-Dixon Sand & Gravel Company Of Pennsylvania, on June 29, 1961

Described by Richard L. Wright
 * Name of chief of party should be inserted here. The officer who actually visited the station should sign his name at the end of this recovery note.
 Note.—One of these forms must be used for every station recovered. Conn-DC