## U. S. DEPARTMENT OF COMMERCE

COAST \& GEODETTC SURVEY

The attached geographic positions, which are printed on yellow paper, or are reproduced by a photographic process, are unadjusted field values. The adjusted values for this area are not available.

In some cases there will be a delay of many months between the field computation and final adjustment. Some areas cannot be adjusted at the present time due to incomplete field observations.

In all cases unadjusted values should be used with caution. Some stations may appear on this list which were adjusted in previous projects. In the field computation the positions are computed starting with fixed positions on one side of an area, or arc, and carried through the unadjusted observations to fixed values on the other side. Thus the position of an adjusted station may appear on this list which is different than that previously published. In some cases more than one value for a station will appear due to the method of computing through the scheme.

These unad justed values will probably not change enough in the adjustment to affect the accuracy of map construction. For most other purposes it would be advisable to contact this Office for the adjusted. values.

Plane coordinates are not furnished for unadjusted field computations.

For further information write to:
The Director
Coast and Geodetic Survey
U. S. Department of Commerce

Washington 25, D. C.

GEOGRAPHIC POSITIONS FIsD.
Accession No. of Computation:G-12998
Locality Outer Banks

- North American 1927 Datum 3 nd. -order Triangulation. State N.Carolina


[^0]Locality Outer Banks, North Carolina
North American 1927 Datum 2nd $\qquad$



Accession No. of Computation:G-12998
Locality yew River Inlet to Iittle River Inlet
North American 1927 Datum 2nd - order Triandulation. State North Carolina

| Station | Latitude And | $\underset{\substack{\text { Seconds in } \\ \text { Metrrs }}}{\text { a }}$ | AZIMUTH | BACK AZIMUTH | to station | distance |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | Logabitim (meters) | Meters | Feet |
| TOWER SEVEN 1947 | $\begin{array}{llll} \hline \circ & \prime & \\ 34 & 28^{\prime} & 38.16 \\ \hline \end{array}$ |  | $\begin{array}{lll} 58 & 09 & 54.95 \end{array}$ | $\begin{array}{llll} 238 & 07 & 51.54 \end{array}$ | KYLE 1962 |  | 6,553.163 |  |
| r. 1962 d.m. | $\begin{array}{ll}77 & 27\end{array}$ |  |  |  |  |  |  |  |
| , |  |  |  |  |  |  | Bramameme |  |
| ASHE 1952 | $34 \quad 30 \quad 05.85$ |  | $\begin{array}{llll}60 & 27 & 54.90\end{array}$ | - 2402619.12 | TOWER SEVEN 1947 |  | 5.478 .970 |  |
| $J$ dom. | $\begin{array}{lll}77 & 23 & 59.82\end{array}$ | - | $\begin{array}{llll}158 & 29 & 58.20\end{array}$ | $\begin{array}{ll}338 & 29 \\ 30.53\end{array}$ | GRANT 1932 | 3 3 | 3,397.497 |  |
|  |  |  |  |  |  |  |  |  |
| VIEW 1932 | $34 \quad 31 \quad 22.22$ |  | $\begin{array}{llll}241 & 38 & 48.13\end{array}$ | $61 \quad 3929.91$ | TRAPS 1962 |  | 2,136.111 |  |
| R.1962 d.m. | $\begin{array}{llll}77 & 21 & 19.00\end{array}$ |  | $\begin{array}{llll}72 & 09 & 15.49\end{array}$ | - $25208 \quad 56.80$ | TOWER NINE 1947 |  |  |  |
|  |  |  |  |  |  |  |  |  |
| $\sqrt{ }{ }^{\text {TOWER NINE }} 194$ ? | $34 \quad 31 \quad 31.01$ |  | $\begin{array}{llll}62 & 03 & 39.04\end{array}$ | -242 0149.46 | ASHE 1962 |  | 5,597.514 |  |
| d.m. | $\begin{array}{ll}77 & 20 \quad 46.62\end{array}$ |  | $\begin{array}{llll}234 & 25 & 57.80\end{array}$ | + 54 $26 \quad 20.89$ | TRAPS 1962 |  | 1,277.218 |  |
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## Description of tardoduenton Interdectibid Station

Name of Station: Onslow Beach, Military Observation Range Tower

## Chief of Party: S.C. Miliger <br> Year: 1962 State:North Garolincounty: Onslow

Description, incivoing sketch of object: Station is located on the Camp Le Jeune larine Reservation, at Onslow Beach which was formerly known as Hurst Beach, on top of a sand dune, about 1 mile northeast of the U. S. Marine Officer's Beach Area.

Station is constructed of wood. It has a wood observation platform which is supported by 4 -large round wood legs.

The tower is about 45 feet in height and the platform is white in color.

A traverse connection was made from triangulation station THURST to the center of the base of the tower, distance being 9.040 meters or 29.66 feet.

The center of the tower is northeast of station THURST station mark.

> Described by N.E. Matlock

Comm-DC 34313

Description of Triangulation Intersection Station
Name of Station: SWanseoro, municipal water tank
Chief of Party: S.C.Miller" Year: 19,62 State:N.Carolina - County: Onslow
Description, induding sketch of object:
Station is located in the northwest part of Swansboro, about 0.1 mile south- southeast of State Highway 24. Intersection point is the ball at top of the tank. The double ellipsoidal tank is supported by four tubular columns with a riser in the center. It is about 80 ft . high and painted silver.


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

## Description of Triangulation Intersection Station

## Name of Station: Swansboro, North Carolina Teachens Association,

## CHIEF of Party: S.C. Miller <br> YEAR: 1952 <br> State: in. Carolina <br> County: Onslow

Description, including sketch of object:
Station is located at west edge of school grounds, about 2 miles West of Swansboro and about 0.2 mile north of the Intracoastal

Intersection point is the ball at the top.
The small steel tank has a conical roof and steel- channel legs. It is about 110 feet and is supported by four and is black in color.

Described by .................
ที่ M?
Comm-DC 34313


 4.
name of station: PINE established by: R.P.S. recovered by:* S.C. Miller

YEAR: 1914
yEAR: 1962
state: North Carolina
county: Onslow
height of telescope above station mark 1.69 meters, height of sita nt above station mark 1.40 meters. DISTANCES AND DIRECTIONS TO AZIMUTH MARK, REFERENCE MARKS AND PROMINENT OBJECTS WHICH CAN BE SEEN FROM THE GROUND AT THE STATION


Station and reference mark No. 1 were recovered and found in good condition. Reference mark No. 2 was established and is as described. It is marked by a standard disk clamped to the top of a $5 / 8$ inch copper weld rod that is driven 32 feet into the ground. The rod is within a 1 inch by 5 foot galvanized pipe which is within a 2 inch by 5 foot galvanized pipe. The disk is stamped PINE NO 21914 that projects 6 inches above the surface of the ground.

A new to reach follows: To reach the station from the junction of State Highway No. 24 and State Highway No. 172; east of Hubert. Go southorly on State 11 ghway 172 for 4.4 miles to the enterance gate to Camp Le Jeuno Marine Base, continue southerly on State Highway No. 172 for 5.5 miles to a road fork. Take left fork and go southeasterly on surfaced road for 0.5 mile to a sideroad left and sign "Onslow Beach". Turn left and go east and southeast on surfaced road for 1.1 mile to a fork, keep left fork and go east for 0.3 mile to station on the left.

## HC How es

*Name of chief of party should be inserted here. The officer who actually visited the station should sign his name at the end of the recovery note.

USCOMM-DC 27173-P59
name of station: TRAPS
state: North Carolinaounty: Onslow
CHIEF OF PARTY: S.C. Miller year: 1962 described by: H.C. Howes
note.* height of telescope above station mark 1.2 meters, t height of light above station mark O. 9 meters.
DESC@ SURFACE-STATION MARK, $\quad$ DISTANCES AND DIRECTIONS TO AZIMUTH MARK, REFERENCE MARKS AND PROMINENT


Station is located at the Camp Le Jeune Marine Base, near the southwest end of Onslow Beach, just northeast of the New River Inlet at the entrance to Traps Bay and on a small sand dune about 1000 yards northpipe. The mark projects 24 inches and the disk is stamped TRAPS 1962.

Reference Mark No. 1 is 50 feet northeast of a beach road. It is marked a standard disk clamped to the top end of a $5 / 8$ inch copperweld rod which is driven into the ground about 24 feet. The rod is within a 1 inch by 5 foot galvanized pipe which is within a 2 inch by 5 foot galvanized pipe. The mark projects 18 inches and the disk is stamped TRAPS NO 1 1962.

Reference Mark No. 2 is 66 feet northeast of a beach road and on a small sand knoll. It is marked by a standard disk clamped to the top of a $5 / 8$ inch copperweld rodethat is driven about 24 feet into the ground. The rod is within a inch by 5 foot galvanized pipe which is within a 2 inch by 5 foot galvanized pipe. The mark projects 10 inches and the disk is stamped 'TRAPS NO 21962.

To reach from the junction of State Highways No. ${ }^{2 l}+$ and 172 east of Hubert, go southerly on State Highway No. 172 for 4.4 miles to the entrance gate to Camp Le Jeune. Continue southerly on State Highway No. 172 for 5.5 miles to a side road left and sign ONSLOW BEACH. Turn left and go east and southeast on surfaced road for 1.1 miles to fork. Keep right fork, pass over bridge and go 0.6 mile to $T$ intersection. Turn right and go south for 1.35 miles to a landing net parlfing area on right. This is the end of truck travel for conventional trucks. With 4 wheel drive vehicle, go southeast to beach. Go south along edge of water for 3.35 miles to station on right as described.

[^1]
## DESCRIPTION OF TRIANGULATION STATION

NAME OF STATION:
THURST
state: North Carolinacounty: Onslow
Chief of party: S.C. Miller year: 1962 described by: N.E. Matlock

| Desc. | SURFACE-STATION MARK, UNDERGROUND-STATION MARK | CES AND BJEC |  | CIMMU MARK |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | ct |  | bearing | distance |  | Orrectio |  |  |
| Desc. PINE 1914 Mark \#2Descerence Mark \# Military OOservation RangeDesc. Tower Center )Onserence Mark \#Onslow Beach, Water Tank (V.G.) |  |  | W |  |  | 888 | $\begin{aligned} & 00 \\ & 53 \end{aligned}$ | $\begin{aligned} & 00.0 \\ & 08 \end{aligned}$ |
|  |  |  | $\begin{gathered} 23.800^{\prime} \\ 9.040^{\prime} \end{gathered}$ |  |  |  | $\begin{aligned} & 59.81 \\ & 12 . \\ & 19.2 \end{aligned}$ |
|  |  |  | NENESW | $\begin{aligned} & 29.66 \\ & 63.57 \\ & \text { about } 1 \end{aligned}$ |  |  |  |
|  |  |  | 19.376 |  | 6 |  |  |
|  |  |  |  |  |  |  |  |

Station is located on the Camp Le Jeune Marine Reservation, at Onslow
응 Beach which was formerly known as Hurst Beach, on top of a sand dune and is 29.66 feet southwest of the center of a Military Observation Tower.

Station is reached from the post office in the small village of Hubert. Go east on State Highway 24 for 0.05 mile. Turn right and go south on State Highway 172 for 4.4 miles to a Camp Le Jeune Marine Sentry Post (Triangle Outpost). Continue south on Highway 172 for 5.8 miles to a Y-fork. Keep left and continue on Highway 172 for 0.35 mile to a road left and sign, "Onslow Beach" on the right. Turn left and continue on a macadam - road for 1.0 mile to a Fork; Keep right and continue on macadam road, crossing a bridge for 0.7 mile to a T-road at Onslow Beach Area. Turn left and continue on road for 0.6 mile to the end of the road. From this point, a $4-$ wheel drive vehicle will be needed to drive to the station. Turn right and continue through a cut in the sand to the beach. Turn left and continue along the beach for 0.5 mile to the range tower and station on the left.

All marks are standard disks, clamped to the top of 1 -inch copper rod which is driven into the ground about 24 feet. The rod is incased within a 2-inch galvanized pipe.-

Station mark is stamped THURST 1962 and projects about 10 inches. It is 1.3 feet south-southeast of a round, wood witness post which has a metal witness sign attached.-

Reference mark number 1 is stamped THJRST NO 11962 and projects about 6 inches. It is 63.2 feet east-northeast of the witness post and 36.1 feet east of the center of a range tower (Observation).

Reference mark number 2 is stamped THURST NO 21962 and projects about 5 inches. It is 77.1 feet west of the witness post.

Military Observation Range Tower is a square wood observation platform supported by 4 -large wood pole legs. It is about 45 feet in height, has a metal ladder on the southwest side which leads from the ground to the platform. The platform is white in color.

No azimuth mark, but the Onslow Beach, Water Tank is visible from the station mark.-

[^2]name of station: RUSSELL RM 4
chief of party: S.C. Millen
state: North Carolinacountronslow
year: 196 ? described by: IT. C. Howes


Station is located about 4 milos southeast of the village of llubert and about $2 \frac{1}{s}$ miles east of the nor th gate of Camp Le Jeuno Marine Base. It is 47 feet north of the center of County Route No. 1503, 38 feet west of center of County Route No. 1501 and $21 \frac{1}{2}$ feet east of a 12 inch oak tree. It is marked by a standard disk cemented in the top of a $12 \times 12$ inch concrete Emonument that is flush with the surface of the ground. The disk is stamped giRUSSELI 1932 I962 NO 4.
\% This station was established to supplement station RUSSELI 1932 which बcould not be occupied.

To reach the station from the junction of State Highway No. 24 and State Highway IN. 172 east of Hubert, go southorly on State Highway No. I72 for 4.4 miles to a sjaeroad left, (this is just bofore the ontrance gate to Camp Le Jouno Karino Base). Turn left on County Routo No. 1503 and go easterly for 2.35 miles to the station on the left as described. Continue easterly for 0.2 mile to azimuth mark on the right.

Azimuth Mark is 36 feet southwest of the centerline of surfaced road, 4 feet west of powerline pole No. P29 and 2.3 feet west of witness post with sign. It is marked by a standard disk cemented in the top of a $12 \times 12$ inch concrete monument that is flush with the suriace of the ground. The disk is stamped RUSSELL 1962.

Reference Mark No. 3 could not be measured at this time due to trees and graveyard. It is marked by a standard disk cemented in the top of a $12 \times 12$ inch concrete monument that projects 3 inches above the surface of the ground and the disk is stamped RUSSEL NO 31932.

_- H. C. _Howes

*Refers to notes in manuals of triangulation and state publications of triangulation. fDrection-angle measured ciockupereterted to inital station $\dagger$ To nearest meter only, when no trigonometric leveling is being done.
name of station: bear creek
state: North Carolingountr: Onslow.
Chief of party: S.C. Miller year 1962- described by h. C. Moves.


Station is located near the G 7 Range Control Tower of Camp Le June Marine Base, about 6 Hubert and about mile east of State Highway No. 172. It is 88 feet west of the northwest leg of control tower, 68 feet southeast of telephone pole and 41 feet south of junction of sand roads. Station is marked by a standard disk cemented in the top of a $12 \times 12$ inch concrete monument that projects 2 inches, above the surface of the ground and the disks is stamped BEAR CREEK 1962.

To reach the station from the junction of State Highway No. 24 and State Hi hiway Ho. 172 (east of Hubert). Go southerly on State Hi hay No. 172 for 4.4 mile to entrance gate to Camp Le Jounce, continue southerly on
 Turn left on dirt road and go easterly for 0.2 mile to a cleared area, turn left an 80 northeast for 0.2 mile to a telephone line and track road. Turn right on track road and follow telephone line east and north for 0.6 mile to the azimuth mark on the left. Continue north on track road for 0.15 mile to a road junction and station on the right as described.

Reference Mark No. I is under control tower. It is marked by a Standard disk cemented in the top of a $12 x 12$ inch concrete monurnent that projects 3 inches above the surface of the ground and the disk is stamped

Reference Mark Mo. ? is 65 feet north of junction of roads and 13 feet northeast of the approximate centerline of road. It is marked by a standard disk cemented in the top of a $12 \times 12$ inch concrete monument that projects 3 inches above the surface of the ground and the disk is stamped BFAR CRBEK iv O 21962.

Azimuth Nark is 73 feet west of telephone pole and 10 feet northwest of the approximate centerline of road. It is marked by a standard disk cemented in the top of a $12 \times 12$ inch concrete monument that projects 2 inches above the surface of the ground and the disk is stamped BEAR CREBK 1962.*

[^3] † To nearest meter only, when no trigonometric leveling is being done.

# RECOVERY NOTE, TRIANGULATION STATION 

## Name or Station: BEAR

Establiseed b
Recovered by:* S.C. Miller
Year: 1914 State:North Carolina
Year: 1962 County: Onslow
Detailed statement as to the finess of the original description; including marks found, stampings, changes made, and other pertinent facts:
Station was recovered and found to be in good condition. The reference Reference marks
Both ence marks 3 and 4 were set and established for the station. top of copper rod that is driven into reference mark disks, clamped to the with 2 -inch galvanized pipe.

Reference mark disk numb
inches. It is 33.7 feet number 3 is stamped BEAR NO 31914 and projects 6 witness sign attached.

Reference mark disk number 4 is stamped BEAR NO 41914 and projects 4 inches. It is 31 feet west of the witness post.

Station mark is 1 foot north-northwest of the witness post and about 4 feet south-southeast of the water line at low tide.
BEAR CREEK Note Bearing 1962 Distance

| Feet | Meters |
| :---: | :---: |
| 34.45 | 10.502 |


| 1962 <br> 0 <br> 0$\quad$ Direction |
| :--- |
| $163 \quad 57$ |

RM \# 3 Desc. E
E
34.45 10.502
$163 \quad 57$
20



Nors.-One of these lorms must be used for every siation rocovered. Wx
name of station: BANK
established by: R.P.S.
Recovered by: $\mathrm{S} . \mathrm{C}$. Miller year: 1914 state: North Carolina
year: 1962 county: Onslow

HEIGHT OF TELESCOPE ABOVE STATION MARK METERS, HEIGHT OF LIGHT ABOVE STATION MARK METERS.


Station and reference mark No. I were recovered. A check was made for distance and direction to reference mark No. I and a difference was found. 1962 observations are shown above.

Reference mark No. 2 was established, and is as described. It is marked by a standard disk clamped to the top of a $5 / 8$ inch copper weld rod that is driven 24 feet into the ground. The rod is within a 2 inch by 5 foot galvanized pipe. The disk is stamped 1962 BANK NO 2. The mark projects 10 inches above the surface of the ground.

Station was reached by boat from Swansboro.
*Note the sand ridge mentioned in the previous description is nearly gone. Station and reference mark No. 2 are under water when there is a high-high tide. The last storm made a new cut and it is doubtful if the station will stay much longer.

[^4]NAME OF STATION: QUEEIN
established by: R.S.P.
recovered by:* S.C. Miller

YEAR: 1914
YEAR: 1962
state: North Carolina
county: Onslow
height of telescope above station mark 23.58 meters, height of light above station mark 26.25 meters.
DISTANCES AND DIRECTIONS TO AZIMUTH MARK, REFERENCE MARKS AND PROMINENT OBJECTS WHICH CAN BE SEEN FROM THE GROUND AT THE STATION


Station, reference mark No. 2, reference mark No. 4 were recovered and found in good condition. Referonce mark No. 3 (azimuth mark) was searched for but could not be found; and is believed destroyed by road improvment. A new azimuth mark was established, and is as described below.

A distance check could not be made to reference mark No. 4 due to a canal that has been cut between station and reference mark No. 4. -

A new description follows; Station is located about 2 miles southwest of downtow Swansboro, about 1 mile southwest of the mouth of the white Oak River and on property owen by Jolin L. Hurst. It is on the north bank of the Intracoustal Waterway, 155 feet east of tho southeast comer of douse,

56 feet southeast of a canal and 26 feet north of water edge at hish tide. Station is marlsed by a standard disk cemented in the top of a $12 \times 12$ inch concrete monument that is flush with the surface of the ground. The disk is stamped QUEET 191'4 1932.

To reach the station from the west end of the bridge that crosses the White River in Swansboro, go northwest on State Highway IIo. 24 for 0.65 mile to a side road left, turn left and go west on County Route No. 1512 for 0.2 mile to the end of surfaced road. Continue straight ahead west on gravel and dirt road for 1.0 mile to crosscoad. Turn left and go south on County Route 150. 1511 for 0.75 m 110 to azimuth mark on the left, continue south on sand road for 0.25 mile to a $T$ intersoction. Tum left and pass to the left of old house and go southerly for 0.05 mile and station as described.

Azimuth Wark is 25 feet northeast of center of road and 1.8 feet southeast of witness post with sign. It is marked by a standard disk cemented in the top of a $12 \times 12$ inch concrete monument that projects 4 inches above the surface of the ground. The disk is stamped Queen 1962.

Reference Mark No. 2 is 129 feet northwest of the northeast corner of house, 100 feet west of a powerline pole and 22 feet southeast of the center of road. It is marked by a standard disk cemented in the top of a $12 \times 12$ inch concrete monument that projects 6 inches above the surface of the ground. The aisk js stamed QuEEM NO 2193 ?.

Roforonce Wark $\operatorname{Ho}$. If is 125 fect northeast of a canal, oz toot southcast of the southoust corner of a store. It is marked by a standard disls cemented in tho top of a $12 \times 12$ inch concrete monument. The disk is stamped QUEEI NO 4 1932. The mark projects 6 inches above the surface of the ground. Name of chief of party should be inserted here. The officer who actually visited the station should sign his name at the end of the recovery note.

## DESCRIPTION OF TRIANGULATION STATION

name of station: BECKY
stateNorth Carolina county: Onslow
CHIEF OF PARTY: S.C. Miller
yEAR: 1962
described by: H. C.H.
note. * height of telescope above station mark 3.54 meters, t height of light above station mark 3.25 meters.
DESC. SURFACE-STATION MARK, DISTANCES AND DIRECTIONS TO AZIMUTH MARK, REFERENCE MARKS AND PROMINENT

| object | bearing | DIST | ANCE | directionf |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | FEET | METERS |  |  |
| BEAR 1914 |  |  |  | - 125 |  |
| Swanaboro, Municipal Water Tank | N | about 3 | miles | 125 |  |
| Bogue Inlot US Coast Guard Tower | E | about? | miles | 20253 |  |
| -R.M. No. 1 | SE, | 31.35 | 9.555 | 2354 |  |
| -R.M. No. 2 | SW | 31.11 | 9.482 | 32745 | 11 |

Station is located about 3 miles southwest of Swansboro, about 2 miles west of the Swansboro Bogue Inlet U.S. Coast Guard Station in low marsh land near the northwest point of Bear Beach on the west side of Bogue Inlet and to the west of a large sand dune. Station is 20 feet north-。east of a 10 inch oak tree with triangle blaze, i? feet south of water edge島at low tide and 2.5 feet west of a witness post with metal sign. Station :is marked by a standard disk clamped to the top of a $5 / 8$ copperweld rod ethat is driven into the ground about 32 feet. The rod is within a 1 inch by 5 feet galvanized pipe and within a 2 inch by 5 foot galvanized pipe. CThe mark projects 10 inches and the disk is stamped BECKY 1962.

Reference Mark No. 1 is 33 feet west of a 10 inch oak tree, 28 feet south of water edge at low tide and 27 fect north of an 8 inch oak tree. It is marked by a standard disk clamped to the top of a $5 / 8$ inch copperweld rod that is driven 24 feet into the ground. The rod is within a inch by 5 foot galvanized pipe which is within a 2 inch by 5 feet section of galvanized pipe. The disk is stamped BECKY NO 11962 and projects 6 inches.

Reference Mark No. 2 is 22 feet west of a 10 inch tree with a triangle blaze, 17 feet east of the water edge at low tide and 14 feet north of an 8 inch oak tree. It is marked by a standard disk clamped to the top of a $5 / 8$ inch copperweld rod that is driven 24 feet into the ground. The rod is within a inch by 5 foot galvanized pipe which is within a 2 inch by 5 foot galvanized pipe. The disk is stamped BECKY NO 21962 and projects 6 inches.

Station was reached by boat from Swansboro.

[^5]
## RECOVERY NOTE, TRIANGULATION STATION

name of station: Bogus 19081933
established by:J.S.H. , year: 1908 recovered by: ${ }^{\text {s }}$.c. Miller year: 1962
state: North Carolina
county: Carteret

HEIGHT OF TELESCOPE ABOVE STATION MARK
METERS,
HEIGHT OF LIGHT ABOVE STATION MARK
METERS.
DISTANCES AND DIRECTIONS TO AZIMUTH MARK, REFERENCE MARKS AND PROMINENT OBJECTS WHICH CAN BE SEEN FROM THE GROUND AT THE STATION


Station and Reference kirk No. 1 was recovered as described in 1933. and found in good condition. Reference Mark No. 2 and Reference Mark No. 3 was established and are as described.

Reference Mark No. 2 is 35 feet northeast of a small oak tree and 15 feet west of water edge at low tide. It is marked by a standard disk clamped to the top of a $5 / 8$ inch copper weld rod that is driven 24 feet into the ground. The rod is within al inch by 5 foot galvanized pipe that is within a 2 inch by 5 foot galvanized pipe. The disk is stamped BOCUE NO 21962 and projects 12 inches above the surface of the ground. -

Reference Mark No. 3 is 60 feet west of water edge at low tide and 30 feet east of water at low tide. It is marked by a standard disk clamped to the top of a $5 / 3$ inch copper weld rod that is driven 24 foot into the ground. Tho rod is within a I inch by 5 foot galvanized pipe that is wo thin a 2 inch by 5 foot galvanized pipe. The disk is stamped BOGUB NO 31962 and projects 13 inches above the surface of the ground.

1962 observations where taken from a 4 foot wooden stand.
Station was reached by boat from Swansboro.

## It? Hour

*Name of chief of party should be insened here: The officer who actually visited the station should sign hiss name at the emt of the recovery note, NOTE - One of these forms must be used for every station recovered.

State: North Carolina' County: Carteret


Station is located about 3 miles southeast of Swansboro, on the west end of Bogle Banks and at tho Swansboro, Boyue Inlet US Coast Guard Station. It is 93 feet southwest of boat lamp, $57 \frac{1}{2}$ foot south of tho approximate center of signal tower and $40 \frac{1}{2}$ feet east of loading platform. Station is gmsrked by a standard disk clamped to the top of a $5 / 8$ inch copper weld rod that is driven 32 feet into the ground. The rod is within a 1 inch by 5 $\frac{8}{8}$ foot galvanized pipe that is within a ? inch by 5 foot galvanized pipe and the disk is stamped GUARD 1962 and projects 10 inches above the surface of "the ground.'

Reference Mark No. I is 50 feet west of a sand track road. It is marked by a standard disk cemented in drillhole of old building platform that projects about 20 inches above the ground and the disk is stamped

GUARD NO 11062.
Reference Mark No. 2 is $18 \frac{1}{2}$ feet south of the southwest corner of loading platform. It is marked by a standard disk clamped to the top of a $5 / 8$ inch copper weld rod that is driven 24 feet into the ground. The rod is within a inch by 5 foot galvanized pipe that is within a 2 inch by 5 foot galvanized pipe. The disk is stamped GUARD NO 21962 and projects 8 inches above the surface of the ground.

Station was reached by boat from Swansboro.

[^6]Dicection-angle measured clockwise, referred to initial stations.
$\dagger$ To nearest meter only, when no trigonometric leveling is being done.
10-30302 $1 \quad$ U. 5. government printing office

Form 526
(11-8-55)

RECOVERY NOTE, TRIANGULATION STATION

Name of Station: TORER NIINE
$\begin{array}{ll}\text { Established by: C.R.R. } & \text { Year: } 1947 \text { State: North Carolina } \\ \text { Recovered by:* S.O.Nillet Year: } 1962 \text { County:Onslow }\end{array}$
Detailed statement as to the fitness of the original description; including marks found, stampings, changes made, and other pertinent facts:
Station mecovered as described in good condition. Reference Mark No. I and Line Mari EIGit were recovered in good condition as described.

Object
Bearing
ASHE
Camp Lejeune, U.S.M.C.
Courthouse Bay Water Tank


Iine Mark EIGHT
1962
feet
Distances
1962 Directions
$\mathbf{R}$



Form 526 (11-8-55)

Name of Station: VISN
Establisued by: A.?.R.
Year: 1032 State: North Camolina
Recovered by:* S.C. Millen Year: 1962 County: MOslow
Detailed statement as to the fitness of the original description; including marks found, stampings, changes made, and other pertinent facts:
Station recovered in good condition and as described with the exception that the marks were found without stampings. The marks were stamped
as Iollows:
Station is marked by a standard disk stamped VIEW 1932.
Reference Mark No. I is marled by a standard disk stamped VIEW NO 1
1932.

Reference Mark No. 2 is marked by a standard aisk stamped VIEW NO 2
1932.

Object
TRAPS
Reference Mark No. I
Reierence Nark IVo. 2

camp Jejeune, U.S.I.C.g
Courthouse Bay Water Tank if E
$\qquad$

- Name of chipl of party should be inserted here. The offcer who scturlly visited the station sbould sign bis name at the end of the rocovery note. Nors.-One of these forms must be used for every station recovered.


##  <br> : <br> $\because$

NAME OF STATION: ASHE
state: North Carolinacounty: Onslow
CHIEF OF PARTY: S.C. Miller year: 1962 described by: H.C. Howes

NOTE,* HEIGHT OF TELESCOPE ABOVE STATION MARKI9. 5 METERS, $\dagger$ HEIGHT OF LIGHT ABOVE STATION MARK 27 . 8 METERS. Desc.

SURFACE-STATION MARK,
UNDERGROUND-STATION MARK DISTANCES AND DIRECTIONS TO AZIMUTH MARK, REFERENCE MARKS AND PR
OBJECTS WHICH CAN BE SEEN FROM THE GROUND AT THE STATION


Station is located on Topsail Island about 10 miles northeast of Surf City, about 9 miles east of Holly Ridge and about 4 miles southwest of New River Inlot. It is 91 feet west of powerline pole no. N 345 , 63 fect northwest of the approximate centerline of surfaced road, 62 foet northeast of powerline pole and 2.2 feet west of a wooden witness post with metal sign. Station is marked by a standard disk clamped to the top of a $5 / 8$ inch copperweld rod that is driven 32 feet into the ground. The rod is within a 1 inch by 5 foot galvanized pipe which is within a 2 inch galvanized pipe. The mark projects 15 inches and the disk is stamped ASHE 1962.

To reach from the junction of State Highway No. 50 and State Highway No. 210 in Surf City, go northeast on State Highway No. 210 for 10.0 miles to Station on left (northwest) side of highway as described.

Reference Mark No. 1 is $92 \frac{1}{2}$ feet north of a powerline pole. It is marked by a standard disk clamped to the top of a $5 / 8$ inch copperweld rod that is driven ${ }^{2}+$ foet into the ground. The rod is within a 1 inch by 5 foot galvanized pipe which is within a 2 inch by 5 foot galvanized pipe. The mark projects 15 inches and the disk is stamped ASHE NO 1 1962.

Reference Mark No. 2 is 89 feet northwest of the approximate centerline of a surfaced road and 58 feet northwest of powerline pole No. N345. It is marked by a standard disk clamped to the top of a $5 / 8$ inch copperweld rod that is driven 24 feet into the ground. The rod is within a 1 inch by 5 foot galvanized pipe which is within a 2 inch by 5 foot galvanized pipe. The mark projects 18 inches and the disk is stamped ASHE NO 2 1962.

[^7]



[^0]:    

[^1]:     $\dagger$ To nearest meter oniy, when no trigonometric leveling is being done.

[^2]:    Kelat
    ORA =

[^3]:    *Refers to notes in manuals of triangulation and state publications of triangulation. †thirection-angle measured clockwise, referred to initial station.

[^4]:    *Name of chief of party should be insened here. The officer who actually visited the station should sign his name at the end of the fecovely wote

[^5]:    *Refers to notes in manuals of triangulation and state publications of triangulation. $\ddagger$ Direction-angle measured clockwise, referred to initial station. $\dagger$ To nearest meter only, when no trigonometric leveling is being done.

[^6]:    - Refers to notes in manuals of triangulation and state publications of triangulation.

[^7]:    

