U. S. DEPARTMENT OF COMMERCE COAST & GEODETIC 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.

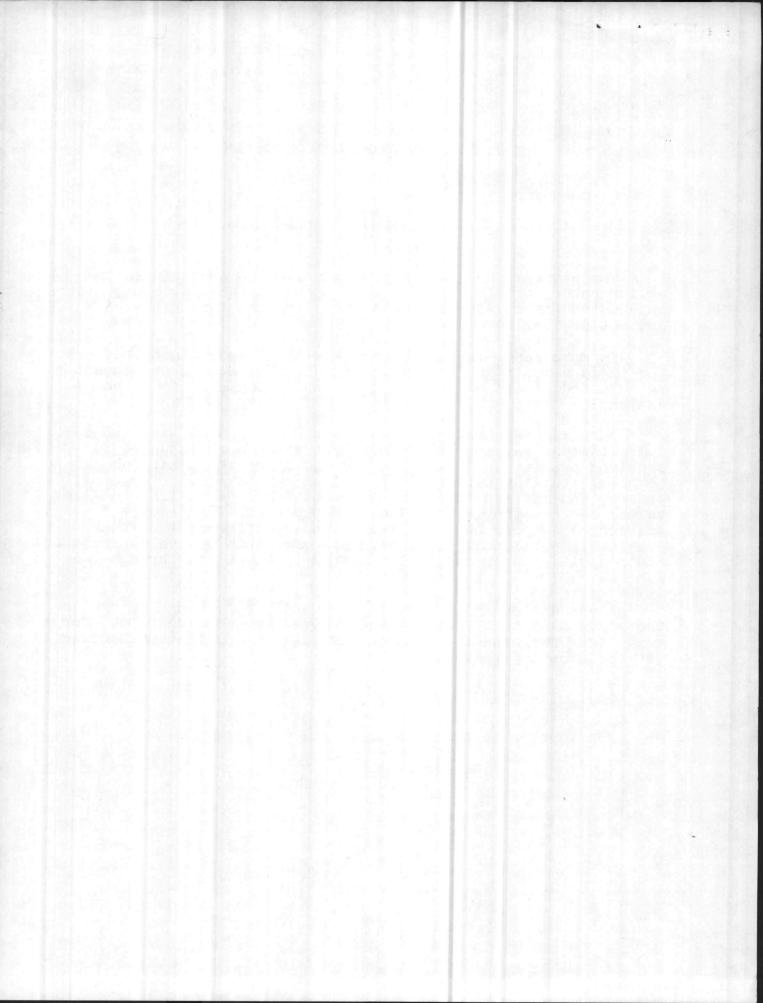
In all cases unadjusted values should be used with caution. Some stations may appear on this list which were adjusted in previous projects. In the field computation the positions are computed starting with fixed positions on one side of an area, or arc, and carried through the unadjusted observations 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 unadjusted 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 FIELD

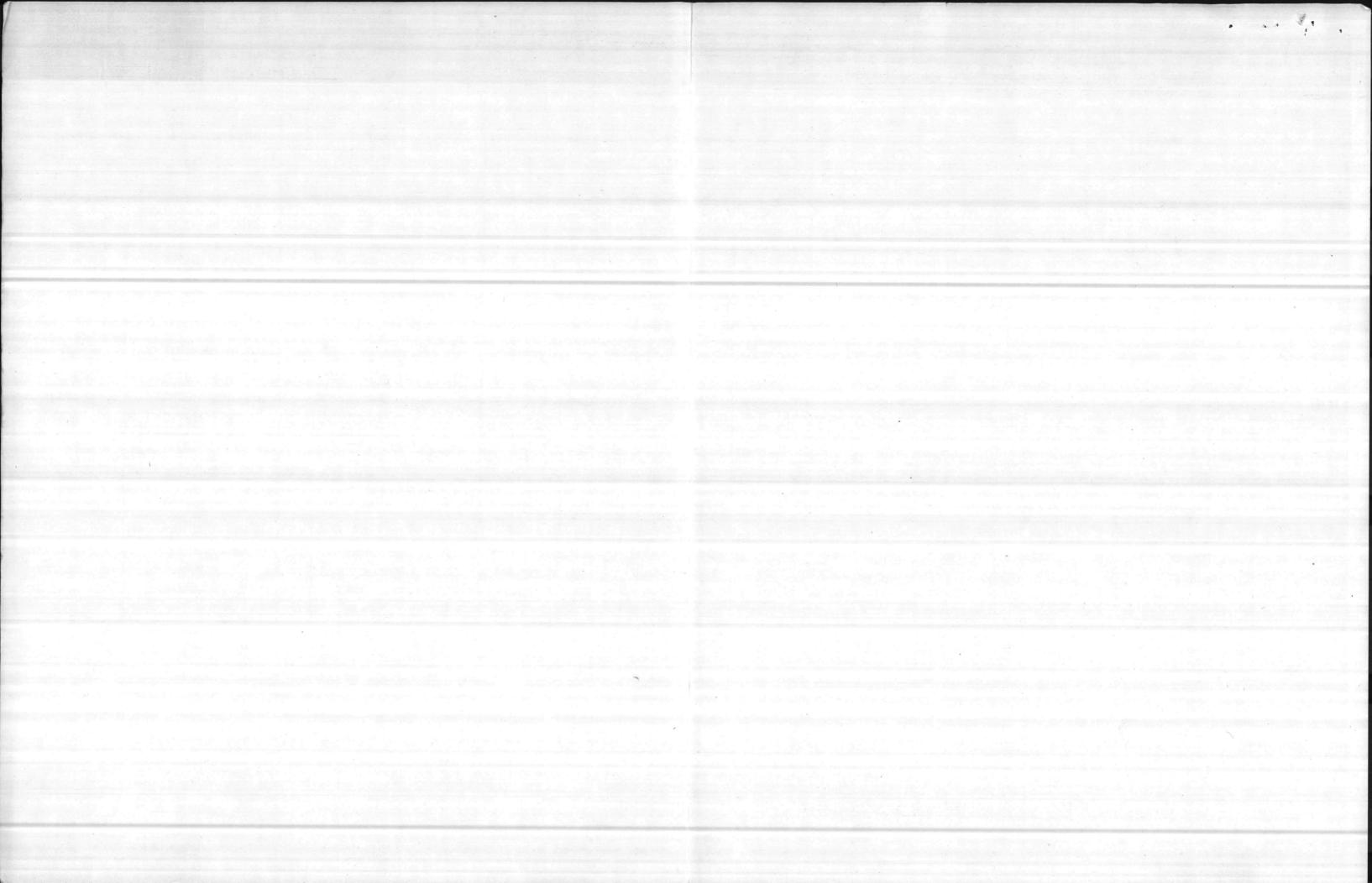
Accession No. of Computation: G-12998

Outer Banks Locality_

North American 1927 Datum_____3 rd.

The second secon	LATITUDE AND	SECONDS IN	AZIMUTH	BACK AZIMUTH	TO STATION		ISTANCE
STATION	LONGITUDE	METERS	AZIMOTH		a diseased to a	LOGARITHM (METERS)	METERS FEET
Morehead City, Carolina Tel. & Tel. Relay Tower	34 43 14.74		309 43 24.4	129 44 37.4	NEW MACON 1886	The state of the s	12.86
Tel. Relay Tower	76 42 53.42	V	47 16 22.5	227 15 37.3	CASH 2 1956	27	50.56
A STATE OF THE STA	10 42)).42		Yan a war a				
	2) 10 02 08	Total Comment of	26 25 35.5	206 24 38.6	BEAR 1914	56	W.52
Swansboro, North Carolina	34 40 23.08 77 08 29.23		341 43 50.3	161 44 13.5	BECKY 1962	33	11.66
Teachers Assn. Water Tank d.	11 00 27.27	No.	A Profession was professional and				
a apprint political	34 41 20.53	1	331 57 42.3	151 58 37.5	GUARD 1962	52	59.40
Swansboro, Municipal Water	77 07 23.87	1	33 23 05.9	213 22 35.1	QUEEN 1914	25	07.33
Tank.	11 01 23.01						
)	34 41 43.07		337 16 15.3	157 17 30.7	RIM 1960	87	42.37
Harkers Island, Methodist Church Spire v 62 d.	76 33 42.14		31 36 08.3	211 35 19.1	BALD 1962	42	00.32
Church Spire v. 62 d.	10)) 42.024						
	34 41 17.56	1	333 43 30.4	153 44 50.6	RIM 1960		15.60
Harkers Island Light d.	76 33 50.58	1	35 26 13.1	215 25 28.7	BALD 1962	31	25.88
)	10 33 30.30		- Commence of the				
	1 10 00		38 Oli 21.9	218 04 21.8	THURST 1960	9	.040
Onslow Beach, Military Obser- vation Range Tower d.		1	30 OH 2107				
vation Hange lower u.	11 _ 17 _ 21034						
The The	31, 1,1 1,1,1,5	1	338 45 11.9	158 46 21.5	RIM 1960	89	597.96
Harkers Island, Church of Jesus Christ of Latter Day Saints, Spire	76 33 31.85	1	34 55 28.9	214 54 33.9	BALD 1962	4:	302.17
Spire d.	, 10 33 32103						
	34 41 47.48	1	334 31 50.3	154 33 17.5	RIM 1960	91	081.78
Harkers Island, Pentecostal		1	24 15 42.2		BAID 1962	41	073.23
Holiness Church Spire d.	76 34 02.85						
		l bear a					
		St. S. San L.					
			1000				

¹ No check on this position.



11

FORM 288 (2-21-56)

GEOGRAPHIC POSITIONS, Field

Accession No. of Computation: G-/2988
Traverse

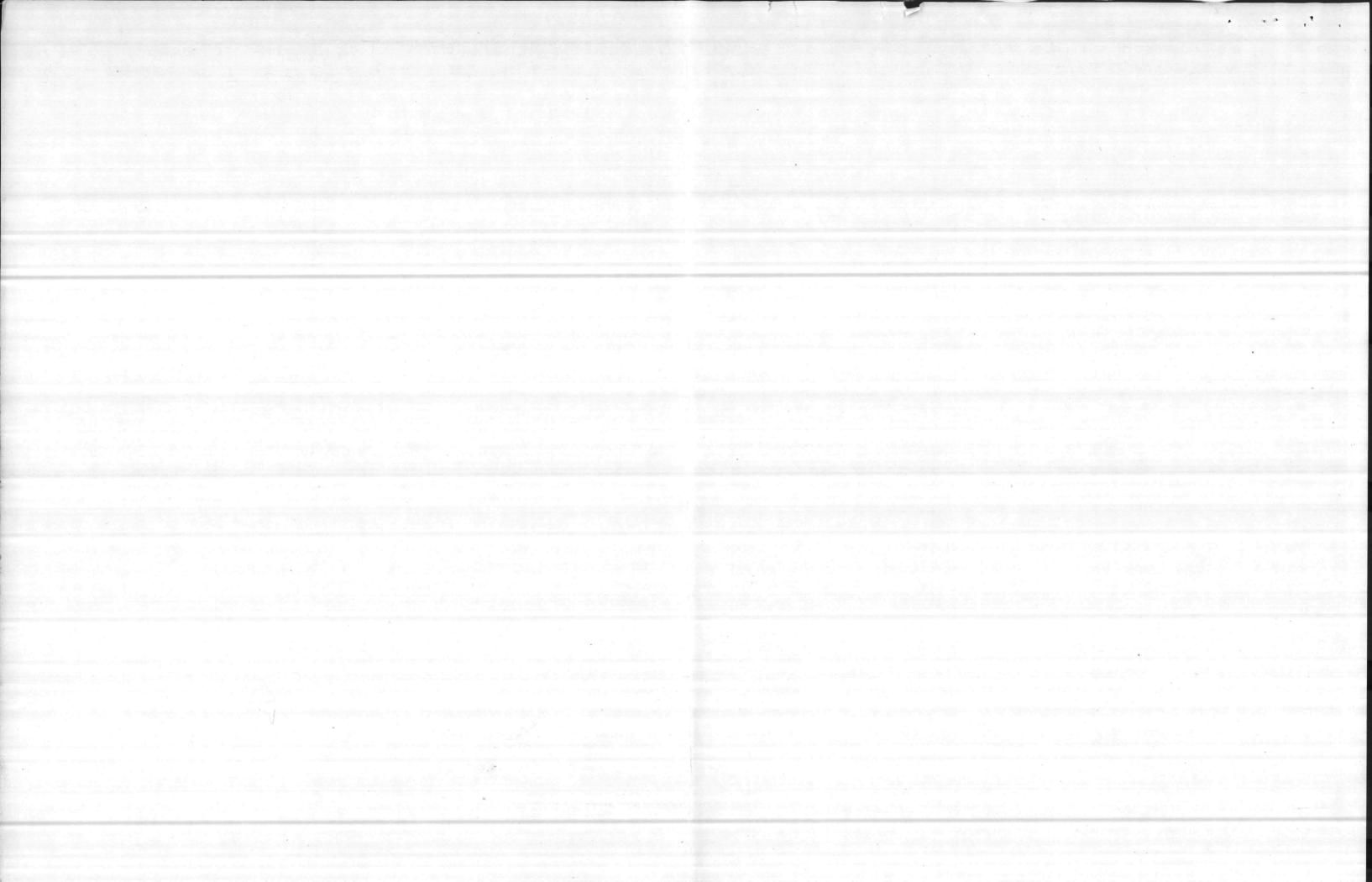
Locality Outer Banks, North Carolina North American 1927 Datum.

-order Triangulation. State North Carolina

STATION	LATITUDE AND LONGITUDE	SECONDS IN 2	AZIMUTH	BACK AZIMUTH	TO STATION		DISTANCE	
BIATION	LONGITUDE	METERS				LOGARITHM (METERS)	METERS	FEET
✓ THURST 1962	34 34 47.84-		67 35 21.96	247 34 49.13 -	Pine 1914		1,593.775	
d.m.	77 15 21.54		137 43 05.9		Military Observation	Range Tower		
TRAPS 1962	34 31 55.16		233 38 50.73	53 41 31.85	Thurst 1962		8,981.564	
d.m.	77 20 05.35		234 06 31.2 /		Onslow Beach Water Ta	ink		
				(2 25 03 06	Thurst 1962		1593.775	
PINE 1914	34 34 28.12 r	(28,091)	247 34 49.13 V	67 35 21.96	murst 1902		477501171	
d.m.	11 10 19.04 *	(19.293)						
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								Service of the servic
				* 1 × 2 × 2 × 2 × 2 × 2 × 2 × 2 × 2 × 2 ×				
							The Autom 311 L	Sec. 1
				1				to kie

1 No check on this position.

Abbreviations used: d.=described; m.=marked; n.=not; r.=recovered; l.=lost; p.=probably. (Examples: n. d.=not described; p. l.=probably lost.)



GEOGRAPHIC POSITIONS, Field

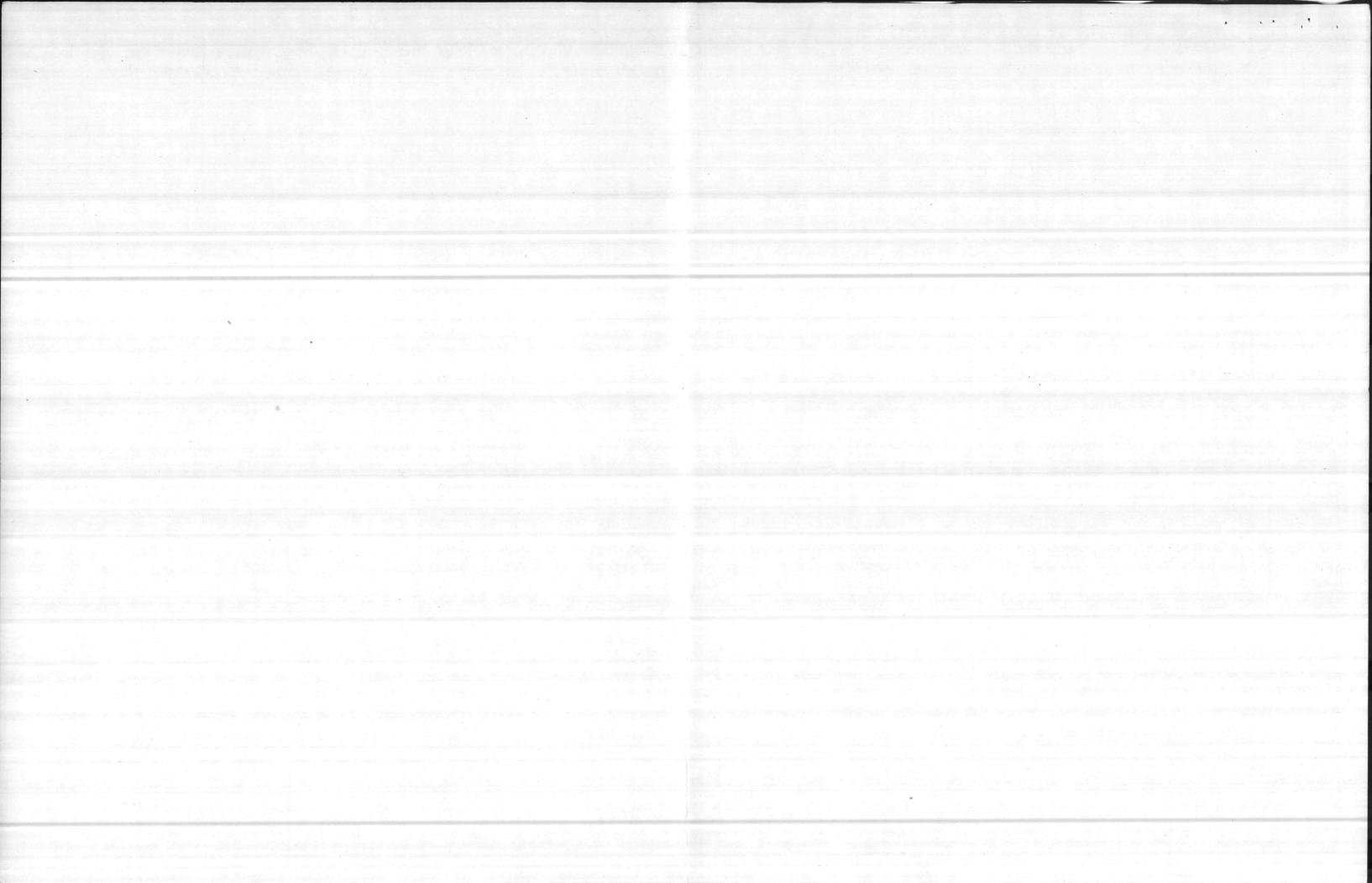
Accession No. of Computation: 6-12988
Traverse

Locality Outer Banks, North Carolina

North American 1927 Datum_2nd

-order Triangulation. State North Carolina

STATION		LA	TITUD	OE AND CUDE	SECONDS IN METERS	A	ZIMU	JTH	BAC	K AZ	IMUTH	ī	O STATION		DISTANCE	
1		0	,	"						200		(p		LOGARITHM (METERS)	Meters	FEET
✓ GUARD 1962				49.87 -		188	02	09.89			14.08 -	Bogue	1908 1933	1 T.	1,341.313	
	d.m.	77	05 1	46.79 -		123	30	17.51 V	303	28	51.49 /	Queen	1914	****	4618.689	
	formació planta	i dite.		et player whe		84	58	08.94 -	264	56	59.83	Becky	1962		3108.003	
						63	03	15.72 /	242	57	49.24 1	Thurst	1962		16432.712	
		, in the second				151	58	37.5 /				Swansb	oro Municipal Wa	ter Tank		
▼ BOGUE 1908 1933		34	39	32.97 -		106	49	38.69-	286	48	08.46.80	Queen	1914		4219.423	
	d.m.	77	05 3	39.43 ~		08	09	06.0 /		100			Inlet Coastguard	Tower		
BECKY n 1962		34	38 1	1.01		61	43	36.28 -	241	42	17.06	Bear	1914		4031.392	
	d.m.	77	07 1	18.36 v		140	12	05.99 -	320	11	56.55	Bank	1914		660.811	
			Frank!			264	37	35.6 "				Bogue	Inlet Coastguard	Tower		
√ √ QUEEN 1914		34	40 1	12.58 -		344	59	35.80 r	164	59	52.69 -	Becky	1962		3921.502	
	d.m.	77	08 1	18.06 -		74	44	10.27	254	42	13.75.	Russel	1 R. M. No. 4 1	932 1962	5407.503	
						154	18	54.3				Azimut	h Mark			To the state of th
V BANK 1914	146	34	38 5	57.48 -		52	17	46.58	232	16	36.80	Bear	1914		3952.761 -	
	d.m.	77	08 0	24.97-		193	21	03.0 r				Swansb	oro Municipal Wa	ter Tank		
V BEAR 1914		34	37 3	39.02 -		232	16	36.80 -	52	17	46.58	Bank	191)4		3,952.761 -	
	d.m.	77	10 0	7.74 +		94	07	05.08	274	05	35.72	Bear C	reek 1962	Al Sports and the	4,015.915	
						94	12	13.2 "				Milita	ry Observation R	ange Tower		
BEAR CREEK 1962		34	37 4	18.35 /		35	39	36.88 -	215	38	07.97	Thurst	1962		6,844.347	
	d.m.	77	12 4	14.99		91	54	04.7/	j. ski	*		Azimut	h Mark			
RUSSELL R. M. NO. 4		34	39	26.34 #		254	42	13.75v	74	44	10.27 r	Queen	1914		5407.503	
1932 1962	d.m.	77	11	42.93	30-	257	11	05.6 1				Azimuth	Mark			



FORM 288 (2-21-56)

Transfer to the second

GEOGRAPHIC POSITIONS Unadjusted Field Computations

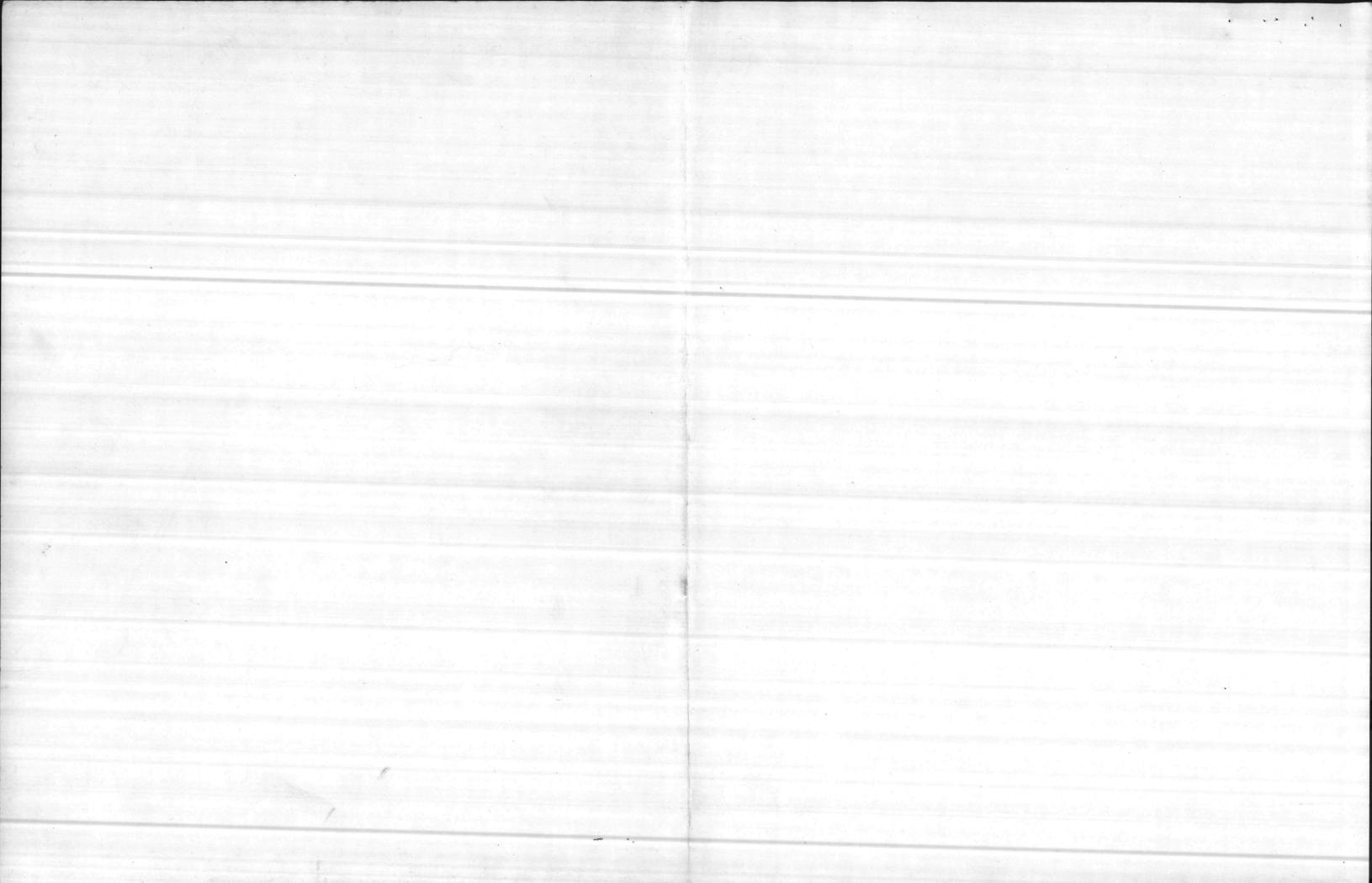
Accession No. of Computation: $G-1 \ge 988$

& Traverse

Locality New River Inlet to Little River Inlet North American 1927 Datum_2nd

-order Triangulation. State North Carolina

STATION		LATITUDE AND LONGITUDE	SECONDS IN	AZIMUTH	BACK AZIMUTH	TO STATION		DISTANCE	
BIIII		LONGITUDE	Meters		the second second for		LOGARITHM (METERS)	METERS	FEET
TOWER SEVEN 1947		34 28 38.16		58 09 54.95	238 07 51.54	KYLE 1962		6,553.163	
	d.m.	77 27 06.62		2003 34:75	1/2	AIDE 1702	At a second for	4,000	
r. 1962	Ueme '	71 21 00:00			The state of the s			de al maria de la composición dela composición de la composición dela composición de la composición de	Carlo Same and
ASHE 1962	and the same	34 30 05.85		60 27 54.90	240 26 19.12	TOWER SEVEN 1947		5,478.970	
	d.m.	77 23 59.82		158 29 58.20	338 29 30.53	GRANT 1932		3,397.497	
		and the second second second second							
VIEW 1932		34 31 22.22	Property Control	241 38 48.13	61 39 29.91	TRAPS 1962		2,136.111	
R. 1962	d.m.	77 21 19.00	Part and a	72 09 15.49	252 08 56.80	TOWER NINE 1947			
TOWER NINE 1947	-	34 31 31.01		62 03 39.04	242 01 49.46	ASHE 1962		5,597.514	
	d.m.	77 20 46.62	1	234 25 57.80	54 26 20.89	TRAPS 1962		1,277.218	
									Man Man
					Land to the second seco				
A Commission of the Commission		- G. v. (2.5)							
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									18"
					The Later Course				
						That plant is a supply to the second			. 1
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Form 525b (11-8-55)

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

DESCRIPTION OF TRIANGUEATION INTERSECTION STATION

Name of Station: Onslow Beach, Military Observation Range Tower

CHIEF OF PARTY: S.C. Miller YEAR: 1962 STATE: North Carolingounty: Onslow

Description, including sketch of object: Station is located on the Camp Le Jeune Marine 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.

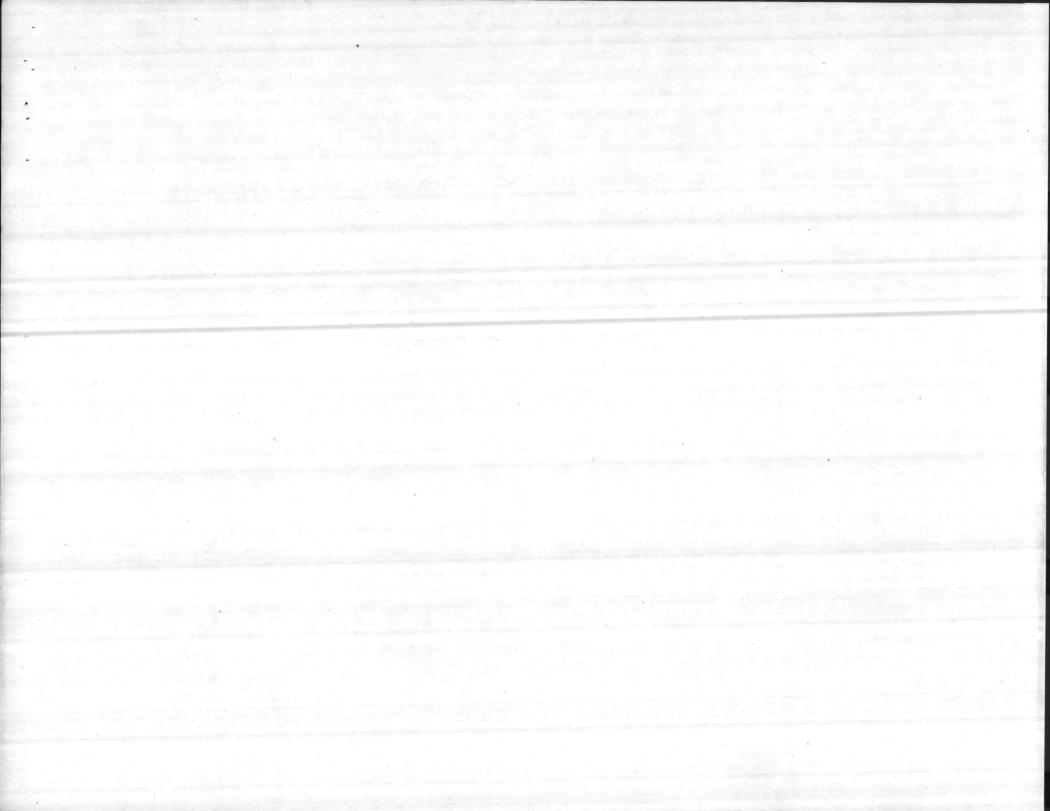
The tower is about 45 feet in height and the platform is white in color.

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



Form 5255 (11-8-55) U.S. DEPARTMENT OF COMMERCE - COAST AND GEODETIC SURVEY

DESCRIPTION OF TRIANGULATION INTERSECTION STATION

NAME OF STATION: SWANSBORO, MUNICIPAL WATER TANK

CHIEF OF PARTY: S.C.Miller YEAR: 1962 STATE: N. Carolina COUNTY: Onslow

Description, including sketch of object:

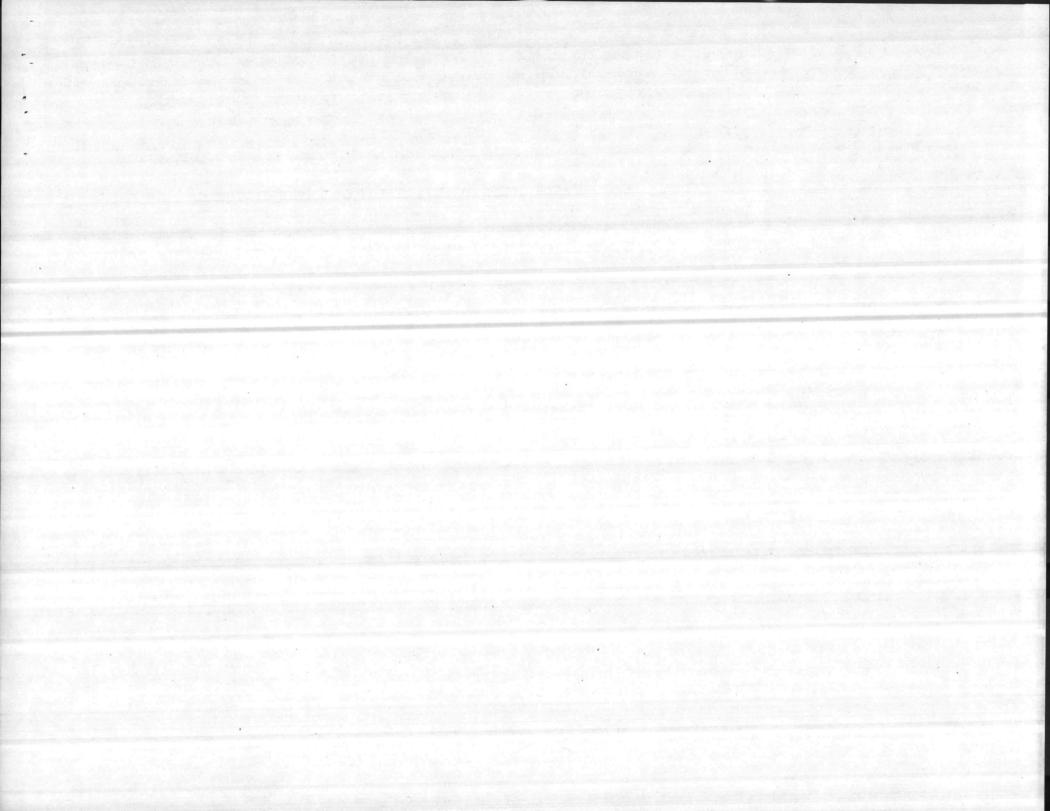
Station is located in the northwest part of Swansboro, about 0.1 mile south- southeast of State Highway 24.

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.

Described by G.F.

Comm-DC 34313



Form 525b (11-8-55)

DESCRIPTION OF TRIANGULATION INTERSECTION STATION

Name of Station: Swansboro, North Carolina Teachers Association, Water Tank

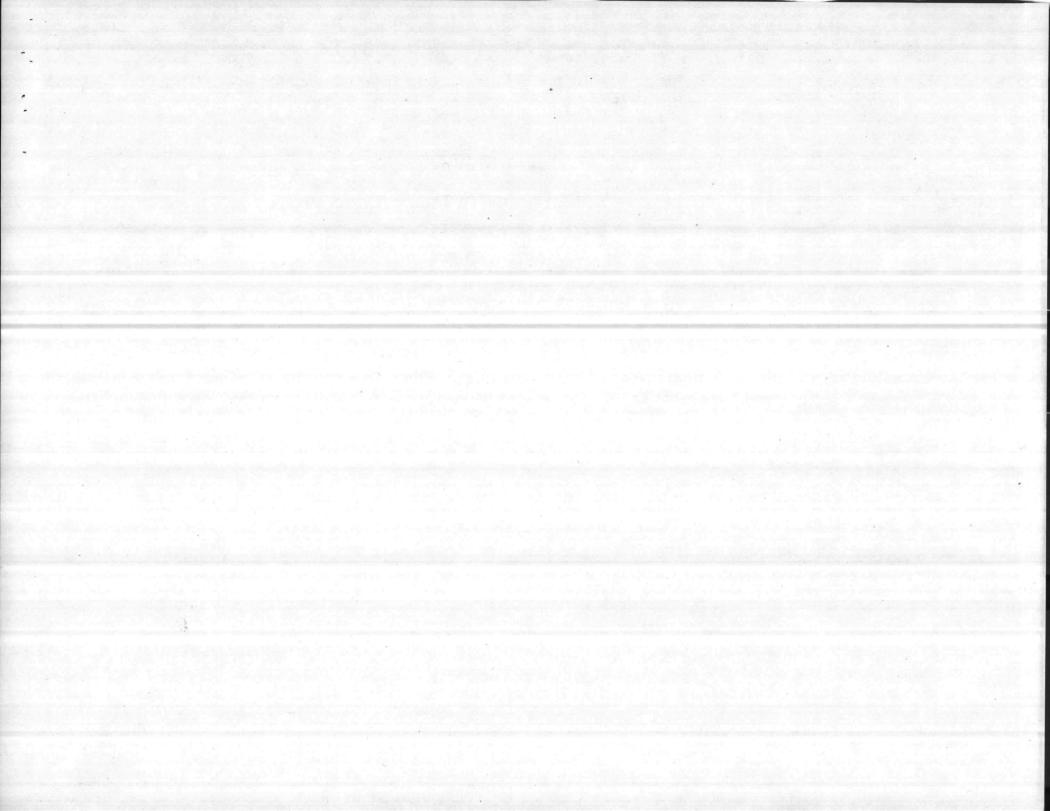
CHIEF OF PARTY: S.C. Miller YEAR: 1962 STATE: N. Carolina County: Onslow

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 is supported by four steel- channel legs. It is about 110 feet high and is black in color.



NAME OF STATION: PINE ESTABLISHED BY: R.P.S.

YEAR: 1914 ' STATE: North Carolina

RECOVERED BY: S.C. Miller

YEAR: 1962 COUNTY: Onslow

HT OF TELESCOPE ABOVE STATION MARK 1.69 METERS, HEIGHT OF TELESCOPE ABOVE STATION MARK 1.40 METERS

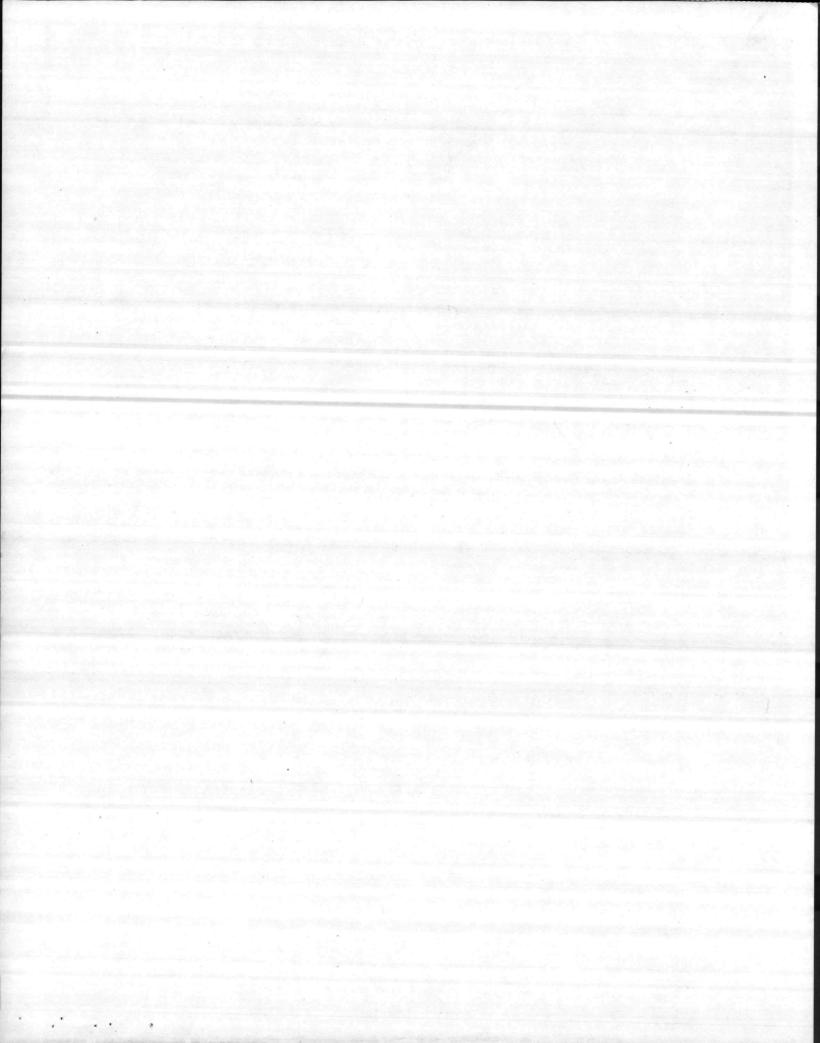
DISTANCES AND DIRECTIONS TO AZIMUTH MARK, REFE FROM THE GRO			ENT OBJECTS WH	IICH CAN BE SEEN	
		DIST	ANCE	Annual Control of the Control	
OBJECT	BEARING	FEET	METERS	DIRECTION	
THURST Reference Mark No. 2 Onslow Beach, Water Tank Reference Mark No. 1	SE SW	68.69 (about 1 82.41	20.938 1 mile) 25.120		

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 2 1914 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 southerly on State Highway No 172 for 4.4 miles to the enterance gate to Camp Le Jeune 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.

H.C. Howes

^{*}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.



NAME OF STATION: TRAPS

STATE: North Carolinacounty: Onslow

CHIEF OF PARTY: S.C. Miller

YEAR: 1962

DESCRIBED BY: H.C. Howes

Desc.	SURFACE-STATION MARK, UNDERGROUND-STATION MARK	DISTANCES AND DIRE OBJECTS W	HICH CAN B	AZIMUTH MARK E SEEN FROM T	HE GROUND AT	THE ST	ND PRO	MINENI
	Party of the American Residence Conference			DIST	ANCE		IRECTI	
	OBJECT		BEARING	FEET	METERS			
	THURST Onslow Beach, Wate Reference Mark No. Reference Mark No.	. 2	NE E NW	(about 35.19 46.84	+ miles) 10.726 14.278	00 00 23 266	00 27 37 31	00.0 40.5 38.6

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 northeast of the water edge. It is 32 feet northeast of a beach road and 3.5 feet northeast of a wood witness post with metal sign. Station is marked by a standard disk clamped to the top end of a 5/8 inch copperweld rod that is driven into the ground about 32 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 24 inches and the disk is stamped TRAPS 1962.

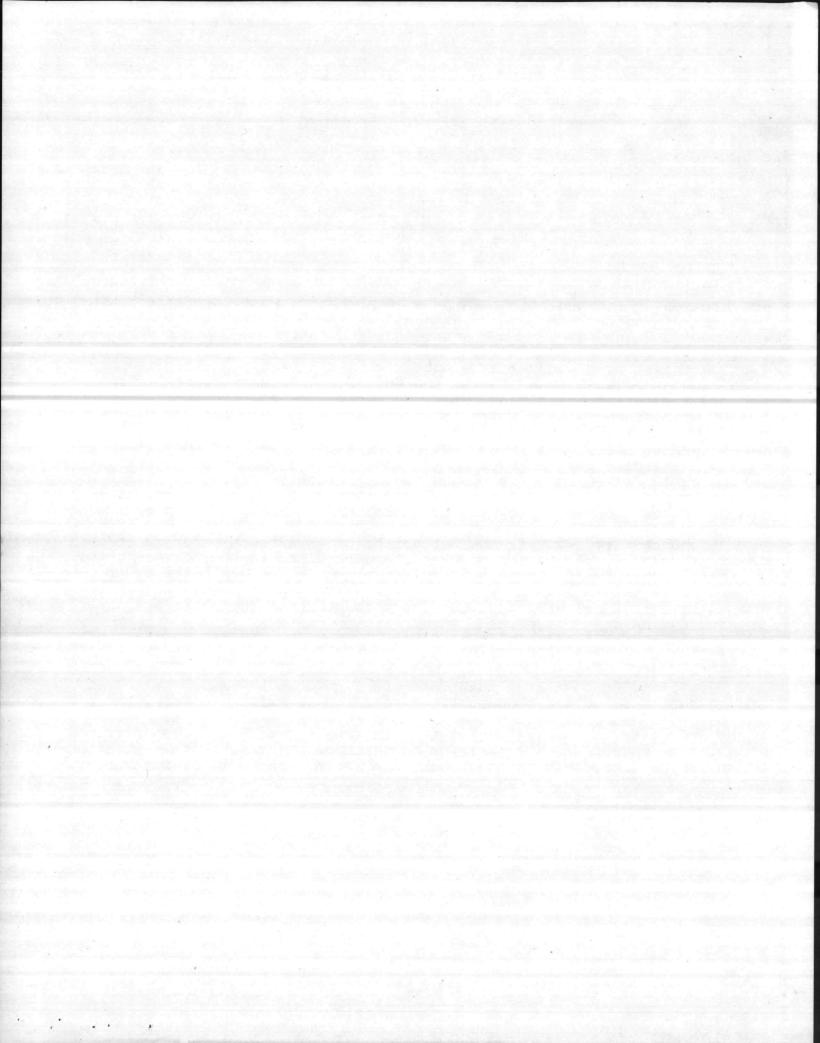
Reference Mark No. 1 is 50 feet northeast of a beach road. It is marked a standard disk clamped to the top end of a 5/8 inch copperweld rod which is driven into the ground about 24 feet. The rod is within a 1 inch by 5 foot galvanized pipe which is within a 2 inch by 5 foot galvanized pipe. The mark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

To reach from the junction of State Highways No. 24 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 parking 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.

^{*}Refers to notes in manuals of triangulation and state publications of triangulation. †Direction-angle measured clockwise, referred to initial station.
†To nearest meter only, when no trigonometric leveling is being done.

USCOMM-DC 27171-P59



NAME OF STATION:

THURST

STATE: North Carolinacounty: Onslow

CHIEF OF PARTY: S.C. Miller

1962

DESCRIBED BY: N.E. Matlock

Desc	HEIGHT OF TELESCOPE ABOVE S' SURFACE-STATION MARK, UNDERGROUND-STATION MARK	DISTANCES AND DIR	HICH CAN B	AZIMUTH MARK E SEEN FROM T	HE GROUND AT	THE ST	ATION	DMINENT
	OBJECT		BEARING	DICT	ANCE		DIRECT	
	OBJECT		I. W. Lines	FEET	A STATE OF THE PARTY OF THE PAR			
Desc.	PINE 1914 Reference Mark # 2		W	78.09	23.800′	27	00 [°] 53	00.0
Desc	Military Observation Tower (Center) Reference Mark # 1 Onslow Beach, Water		NE NE	29.66 63.57 about 1	The second secon	The Principal Control		

Station is located on the Camp Le Jeune Marine Reservation, at Onslow 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 THURST NO 1 1962 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 2 1962 and projects about

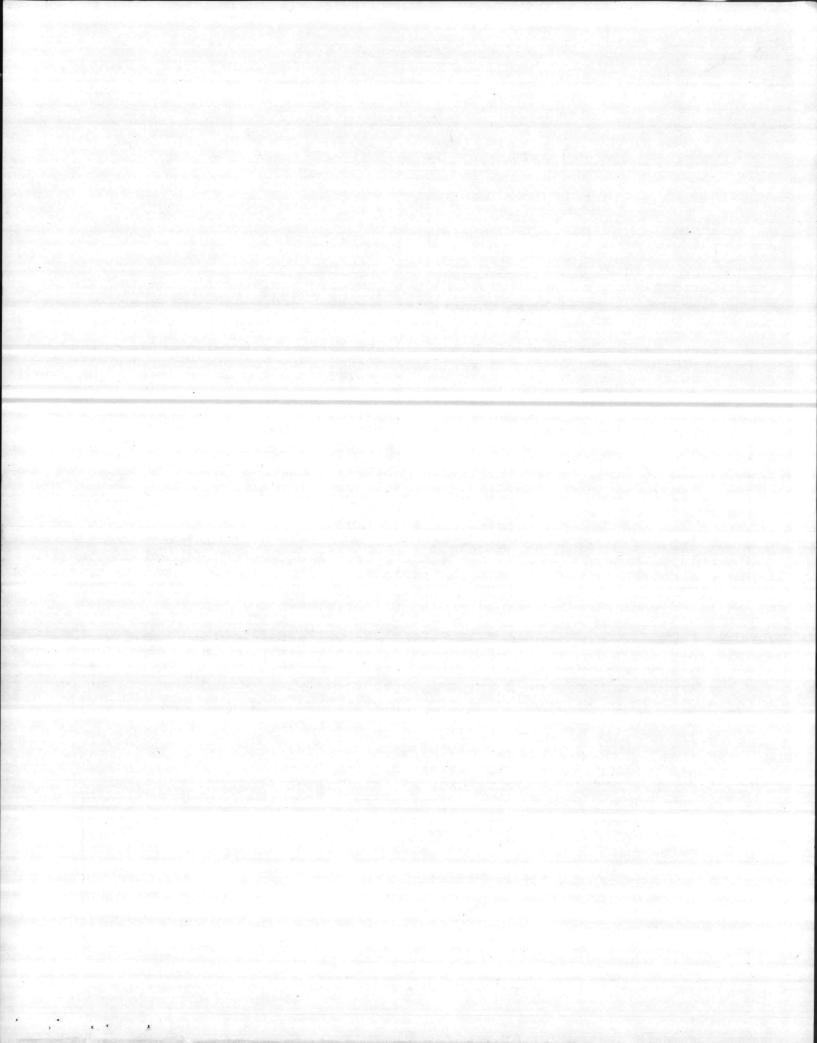
5 inches. It is 77.1 feet west of the witness post.

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 metalladder 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. -

Refers to noise in manuals of tringgulation and state publications of triangulation. Direction angle measured clockwise, to To nearest meter only, when no trigonometric teveling is being done.



NAME OF STATION: RUSSELL RM 4

STATE: North CarolinacountyOnslow

CHIEF OF PARTY: S.C. Miller

YEAR: 1962

DESCRIBED BY, H.C. Howes

lla	HEIGHT OF TELESCOPE ABOVE ST SURFACE-STATION MARK, UNDERGROUND-STATION MARK	DISTANCES AND DIRE	CTIONS TO	AZIMUTH MAR	K, REFERENCE A	MARKS AND PROMINENT
				DIST	ANCE	DIRECTION
	OBJECT		BEARING	FEET	METERS	BIRCO II GI
a a a	QUEEN 19 Azimuth Mark RUSSELL 1932 1962 Reference Mark No.	714 1932 Trav. Dist.	E N NW	0.25 143.67	mile 43.791	000 00 00.0 02 28 51.9 278 07 12.7 251 35 44

Station is located about 4 miles southeast of the village of Hubert and about 2½ miles east of the north gate of Camp Le Jeune Marine Base. It is 47 feet north of the center of County Route No. 1503, 38 feet west of center of County Route No. 15ol and 21½ feet east of a 12 inch oak tree. It is marked by a standard disk cemented in the top of a 12x12 inch concrete monument that is flush with the surface of the ground. The disk is stamped RUSSELL 1932 1962 NO 4.

This station was established to supplement station RUSSELL 1932 which

scould not be occupied.

To reach the station from the junction of State Highway No. 24 and State Highway No. 172 east of Hubert, go southerly on State Highway No. 172 for 4.4 miles to a sideroad left, (this is just before the entrance gate to Camp Le Jeune Marine Base). Turn left on County Route 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.

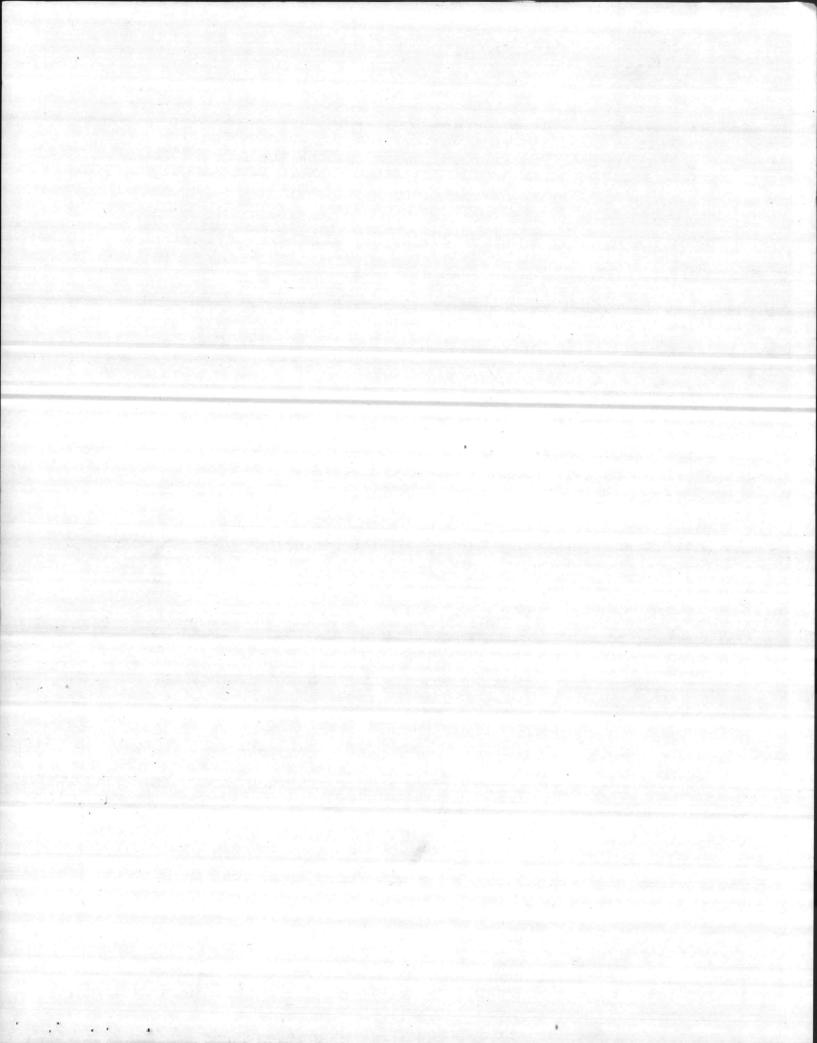
Azimuth Mark is 36 feet southwest of the centerline of surfaced road, 4 feet west of powerline pole No. P29 and 2.3 feet west of witness post with sign. It is marked by a standard disk cemented in the top of a 12x12 inch concrete monument that is flush with the surface of the ground. The

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 12x12 inch concrete monument that projects 3 inches above the surface of the ground and the disk is stamped RUSSEL NO 3 1932.

H.C. Howes

Refers to notes in manuals of triangulation and state publications of triangulation. Direction-angle measured clockwise, referred to initial station To nearest meter only, when no trigonometric leveling is being done.



FN

DESCRIPTION OF TRIANGULATION STATION

NAME OF STATION: BEAR CREEK

STATE: North Carolingounty: Onslow.

CHIEF OF PARTY: S.C. Miller.

YEAR: 1962-

DESCRIBED BY: H.C. Howes.

SURFACE-STATION MARK, UNDERGROUND-STATION MARK	DISTANCES AND DIRE OBJECTS WI	HICH CAN B	AZIMUTH MARK E SEEN FROM T	REFERENCE HE GROUND AT	MARKS AND PROMINENTHE STATION
OBJECT		BEARING	DIST	ANCE	DIRECTION
OBJECT		BEARING	FEET	METERS	DIRECTION
THURST					000 00 00.0
Azimuth Mark		W.	0.15 mil	e •	56 14 27.8 136 11 10 224 26 30
RM No. 2		N-	105.56	32.175	136 11 10-
RM No. 1		E	02.02	28 355	201 26 20

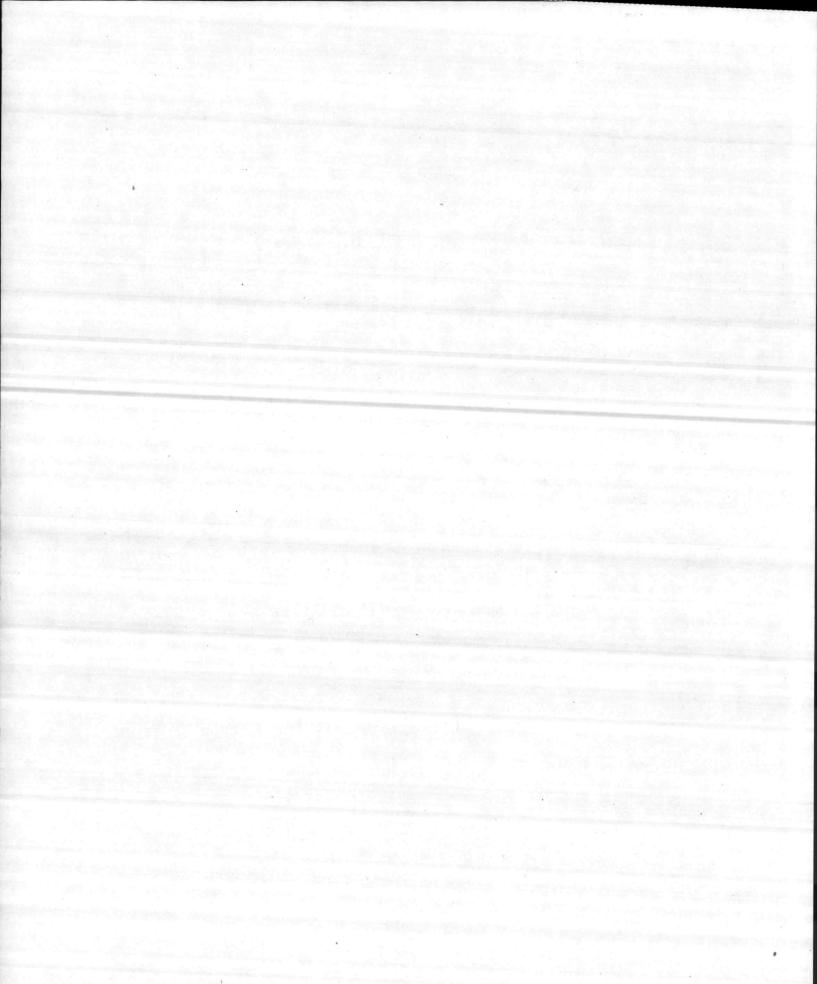
Station is located near the G 7 Range Control Tower of Camp Le Jeune Marine Base, about 6 miles southwest of Swansboro, about 6 miles south of Hubert and about 1 mile east of State Highway No. 172. It is 88 feet west of the northwest leg of control tower, 68 feet southeast of telephone pole and 41 feet south of junction of sand roads. Station is marked by a standard disk cemented in the top of a 12x12 inch concrete monument that projects 2 inches above the surface of the ground and the disk is stamped BEAR CREEK 1962.

To reach the station from the junction of State Highway No. 24 and State Highway No. 172 (east of Hubert). Go southerly on State Highway No. 172 for 4.4 mile to entrance gate to Camp Le Jeune, continue southerly on State Highway No. 172 for 1.65 mile to a sideroad left; and sign Range G 7. Turn left on dirt road and go easterly for 0.2 mile to a cleared area, turn left an go 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. 1 is under control tower. It is marked by a standard disk cemented in the top of a 12x12 inch concrete monument that projects 3 inches above the surface of the ground and the disk is stamped BEAR CREEK NO 1 1962.

Reference Mark No. 2 is 65 feet north of junction of roads and 18 feet northeast of the approximate centerline of road. It is marked by a standard disk cemented in the top of a 12x12 inch concrete monument that projects 3 inches above the surface of the ground and the disk is stamped BEAR CREEK NO 2 1962.

Azimuth Mark is 70 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 12x12 inch concrete monument that projects 2 inches above the surface of the ground and the disk is stamped BEAR CREEK 1962.



Form 526 (11-8-55)

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

NAME OF STATION: BEAR

ESTABLISHED BY: YEAR: 1914 STATE: North Carolina

RECOVERED BY: S.C. Miller YEAR: 1962 COUNTY: Onslow

Detailed statement as to the fitness 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 marks could not be found.

Reference marks 3 and 4 were set and established for the station.

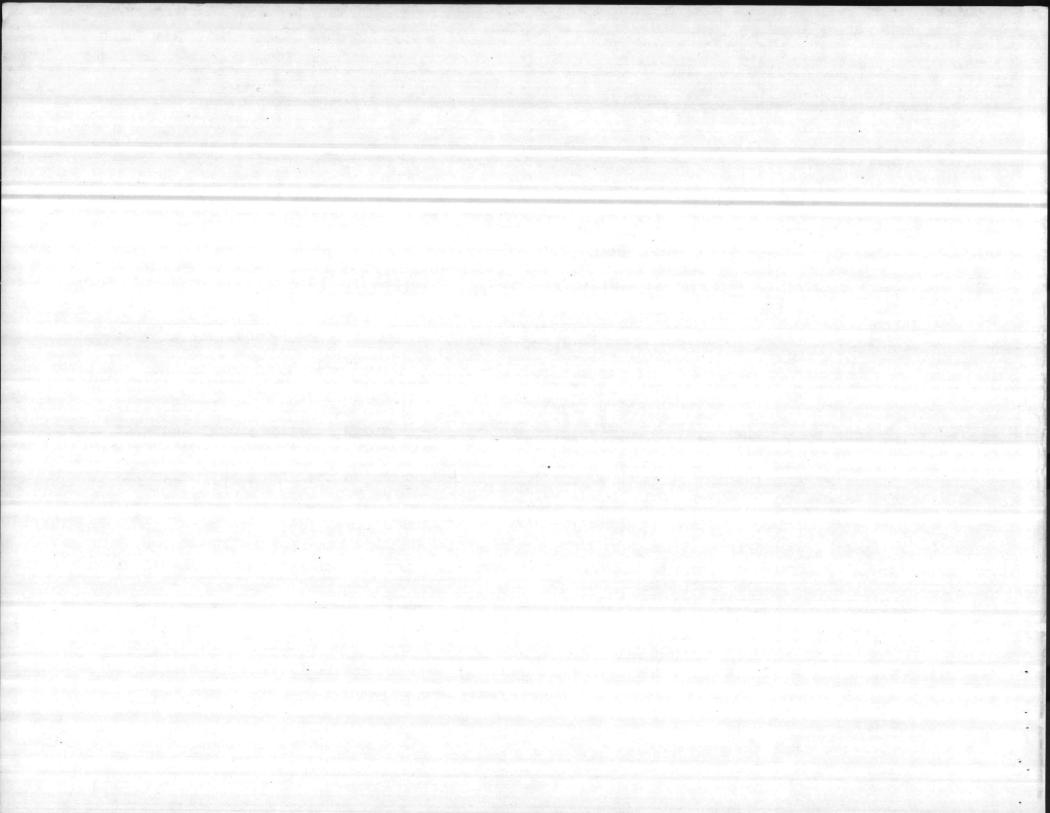
Both reference marks are standard reference mark disks, clamped to the top of copper rod that is driven into the soil for about 24 feet and encased with 2-inch galvanized pipe.

Reference mark disk number 3 is stamped BEAR NO 3 1914 and projects 6 inches. It is 33.7 feet east of a round, wood witness post which has a metal witness sign attached.

Reference mark disk number 4 is stamped BEAR NO 4 1914 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 45 feet south-southeast of the water line at low tide.

Object BEAR CREEK RM # 3 Swansboro, Mun-	Bearing E	1962 Distance Feet Meters 34.45 10.502	1962 Direction 0 00 00.0 163 57 20
	NE W serted here. The office NOTE.—One of these	About 5 miles 30.33 9.243 er who actually visited the station should sign bis name forms must be used for every station recovered.	117 18 24.5 353 30 46 at the end of the recovery note.



NAME OF STATION: BANK

ESTABLISHED BY: R.P.S.

RECOVERED BY: S.C. Miller

YEAR: 1914

STATE: North Carolina

COUNTY: Onslow

EIGHT OF TELESCOPE ABOVE STATION MARK

METERS.

HEIGHT OF LIGHT ABOVE STATION MARK

METERS

DISTANCES AND DIRECTIONS TO AZIMUTH MARK, REF	ERENCE MAR	KS AND PROMINE E STATION	NT OBJECTS WHI	ICH CAN BE SEEN		
		DISTA	NCE			
OBJECT	BEARING	FEET	METERS	DIRECTION		
BEAR 1914 North Carolina Teachers Association Water Tank Swansboro, Municipal Water Tank Reference Mark No. 2 Reference Mark No. 1	N NE NE E	65.55	miles)	080 00 00.0 114 34 42.2 141 03 16.4 168 59 07 190 02 00		

Station and reference mark No. 1 were recovered. A check was made for distance and direction to reference mark No. 1 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.

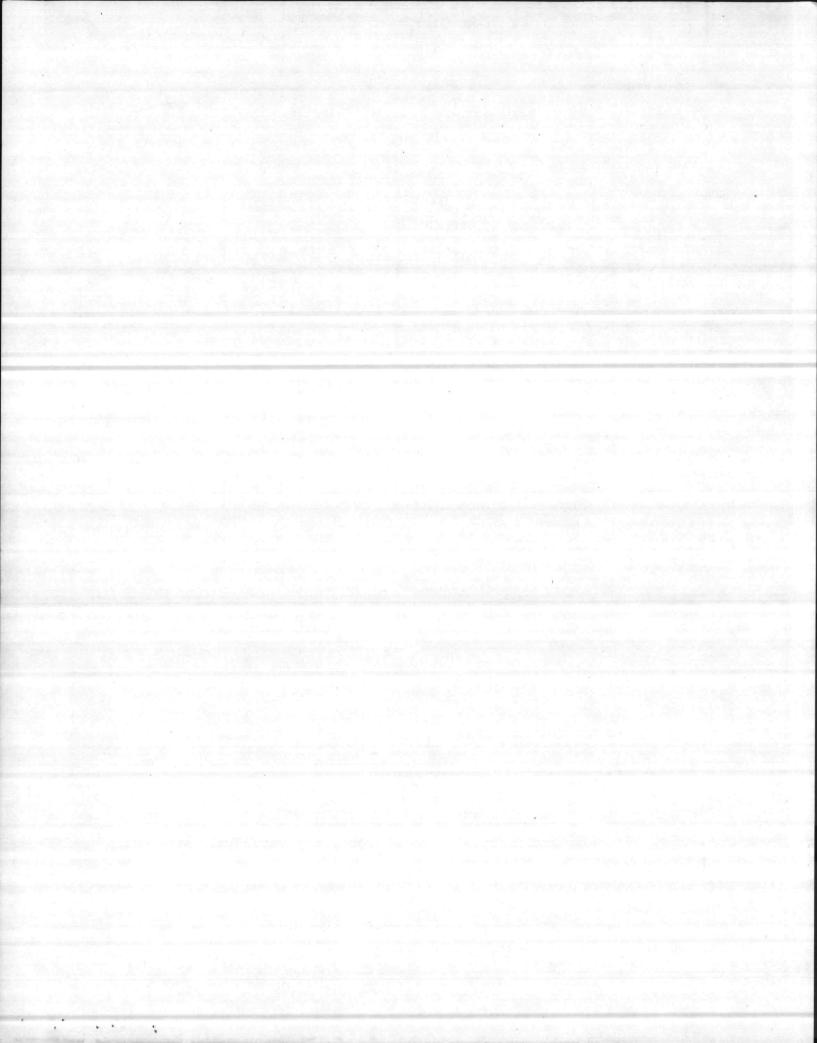
Station was reached by boat from Swansboro.

*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.

St. C. Fower

^{*}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.



NAME OF STATION: QUEEN

ESTABLISHED BY: R.S.P. RECOVERED BY: S.C. Miller

STATE: North Carolina

YEAR: 1962

COUNTY: Onslow

N MARK 23.58 METERS

HEIGHT OF LIGHT ABOVE STATION MARK 26.25 METERS.

		DIST	ANCE	Survey of the second se	
OBJECT	BEARING	FEET	METERS	DIRECTION	
GUARD Reference Mark No. 4 Azimuth Mark Reference Mark No. 2	NE -	0.3 305.51	mile (93.112)	000 00 00.0 188 04 01 - 210 50 02.8 - 287 57 19 -	

Station, reference mark No. 2, reference mark No. 4 were recovered and found in good condition. Reference 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 downtown Swansboro, about 1 mile southwest of the mouth of the White Oak River and on property owen by John L. Hurst. It is on the north bank of the Intracoastal Waterway, 155feet east of the southeast corner of house,

56 feet southeast of a canal and 26 feet north of water edge at high tide. Station is marked by a standard disk cemented in the top of a 12x12 inch concrete monument that is flush with the surface of the ground. The disk

is stamped QUEEN 1914 1932.

To reach the station from the west end of the bridge that crosses the White River in Swansboro, go northwest on State Highway No. 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 crossroad. Turn left and go south on County Route No. 1511 for 0.75 mile to azimuth mark on the left, continue south on sand road for 0.25 mile to a T intersection. Turn left and pass to the left of old house and go southerly for 0.05 mile and station as described.

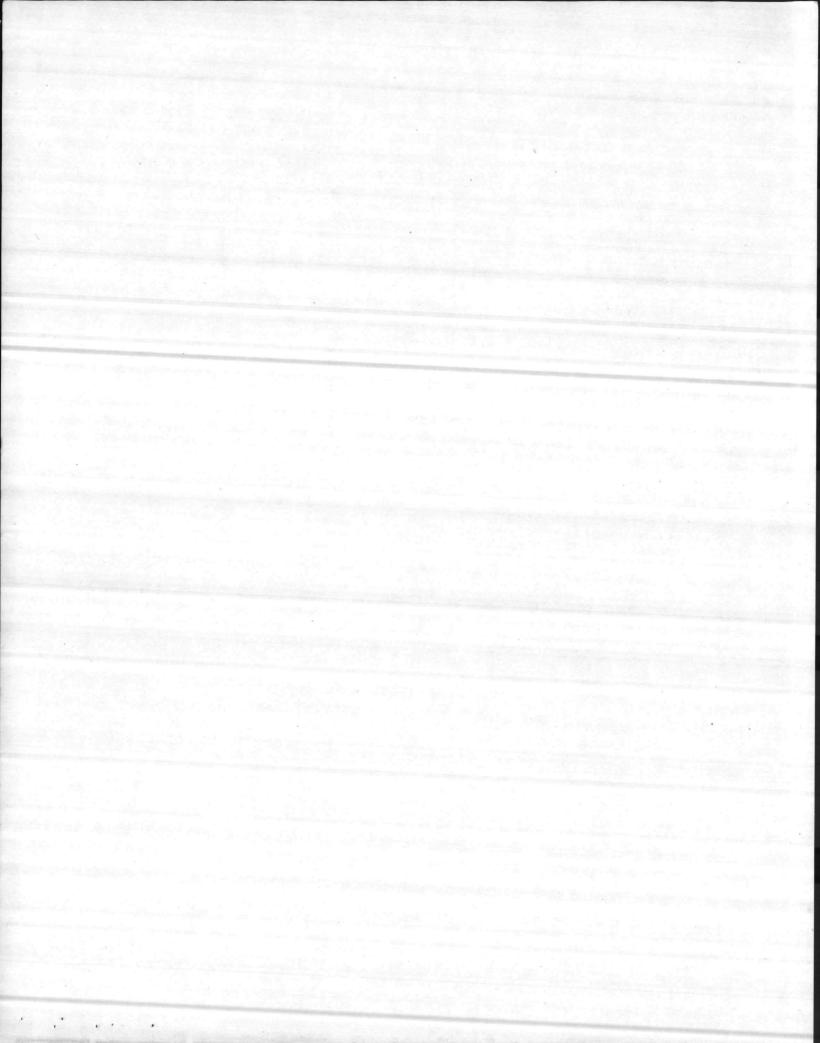
Azimuth Mark is 25 feet northeast of center of road and 1.8 feet southeast of witness post with sign. It is marked by a standard disk cemented in the top of a 12x12 inch concrete monument that projects 4 inches above

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 12x12 inch concrete monument that projects 6 inches above the surface of the ground. The disk is stamped QUEEN NO 2 1932.

Reference Mark No. 4 is 125 feet northeast of a canal, 62 feet southeast of the southeast corner of a store. It is marked by a standard disk cemented in the top of a 12x12 inch concrete monument. The disk is stamped QUEEN 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

NOTE - One of these forms must be used for every station recovered.



NAME OF STATION: BECKY

STATENOrth Carolina COUNTY: Onslow

CHIEF OF PARTY: S.C. Miller

YEAR: 1962

DESCRIBED BY: H. C.H.

Desc.	SURFACE-STATION MARK, UNDERGROUND-STATION MARK	DISTANCES AND DIRECTIONS TO AZIMUTH MARK, REFERENCE MARKS AND PROMINENT OBJECTS WHICH CAN BE SEEN FROM THE GROUND AT THE STATION						
	ОВЈЕСТ		BEARING	DISTANCE		DIRECTION		
				FEET	METERS	DIRECTION		
Desc.	BEAR : Swanaboro, Municipa Bogue Inlet US Coal R.M. No. 1 R.M. No. 2	1 Water Tank	N E SE SW	about 3 about 2 31.35 31.11	miles .	00 125 202 235 327	00 30 53 41 45	00.0 00.0 59.3 46

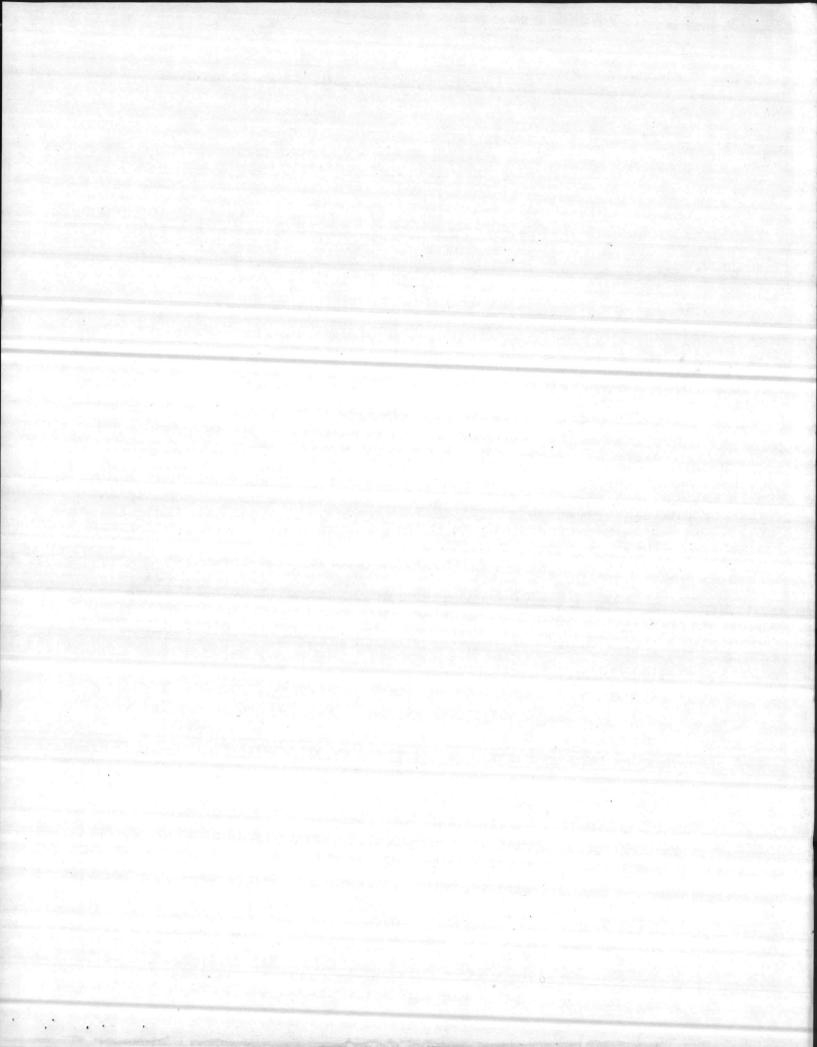
station is located about 3 miles southwest of Swansboro, about 2 miles west of the Swansboro Bogue Inlet U.S. Coast Guard Station in low marsh land near the northwest point of Bear Beach on the west side of Bogue Inlet and to the west of a large sand dune. Station is 20 feet northeast of a 10 inch oak tree with triangle blaze, 17 feet south of water edge 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 that 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. The 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 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 1 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 1 1962 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 1 inch by 5 foot galvanized pipe which is within a 2 inch by 5 foot galvanized pipe. The disk is stamped BECKY NO 2 1962 and projects 6 inches.

Station was reached by boat from Swansboro.

Refers to notes in manuals of triangulation and state publications of triangulation. Direction-angle measured clockwise, referred to initial station.



NAME OF STATION: BOGUE 1908 1933

ESTABLISHED BY: J.S.H. YEAR: 1908 STATE: North Carolina

RECOVERED BY: S.C. Miller YEAR: 1962 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								
	BEARING	DIST	ANCE	DIRECTION				
OBJECT		FEET	METERS					
GUARD Sogue Inlet US Coast Guard Tower Reference Mark No. 3 Reference Mark No. 1 Reference Mark No. 2	S ~ N · N · SE~	about 1 52.90 - 40.79 - 51.00 -	mile 16.125 12.432 15.545	000 00'00.0' 00 06 51.9 179 04 19 179 13 42 285 49 04				

Station and Reference Mark 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 a 1 inch by 5 foot galvanized pipe that is within a 2 inch by 5 foot galvanized pipe. The disk is stamped BOGUE NO 2 1962 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 5/8 inch copper weld rod that is driven 24 feet into the ground. The rod is within a 1 inch by 5 foot galvanized pipe that is within a 2 inch by 5 foot galvanized pipe. The disk is stamped BOGUE NO 3 1962 and projects 18 inches above the surface of the ground.

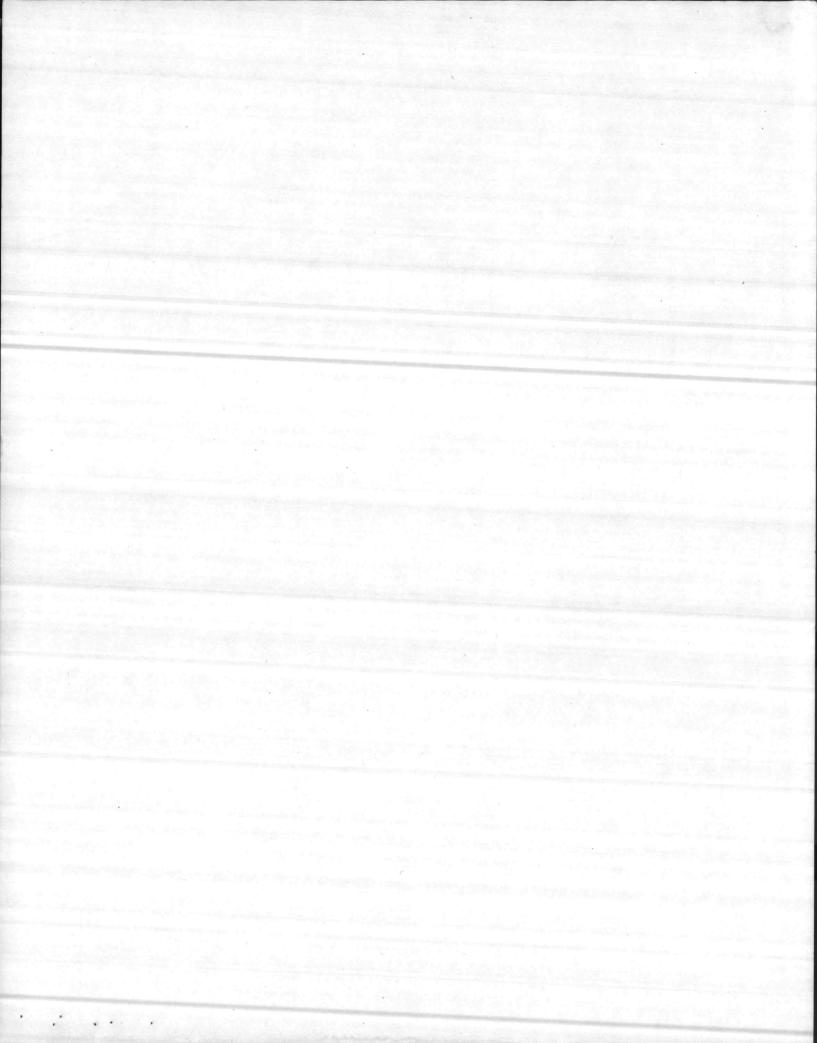
and projects 13 inches above the surface of the ground.

1962 observations where taken from a 4 foot wooden stand.

Station was reached by boat from Swansboro.

AC. Howes

^{*}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.



DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY FORM 525 Rev. Aug. 1948

DESCRIPTION OF TRIANGULATION STATION

FV

NAME OF STATION: GUARD

STATE: North Carolina COUNTY: Carteret

CHIEF OF PARTY: S.C. Miller -

YEAR: 1962

Described by: H.C. Howes

NOTE, HEIGHT OF TELESCOPE ABOVE STATION MARK 19.00 METERS. HEIGHT OF LIGHT ABOVE STATION MARK 21.76 METER DESC. Surface-station mark, Underground-station mark

| DISTANCES AND DIRECTIONS TO AZIMUTH MARK, REFERENCE MARKS AND PROMINENT OBJECTS WHICH CAN BE SEEN FROM THE GROUND AT THE STATION

| DISTANCE | DIS

	Underground-station mark	V FROM THE GR	OUND AT THE S	TATION			
Marie Total	OBJECT	BEARING	DIST	ANCE	DIRECTION:		
	OBJECT	BEARING	feet	meters			
	BECKY Swansboro Municipal Water Tank Reference Mark No. 1 Reference Mark No. 2		(about 50.39 60.08	15.360	000 00 00 00 00 00 00 00 00 00 00 00 00		

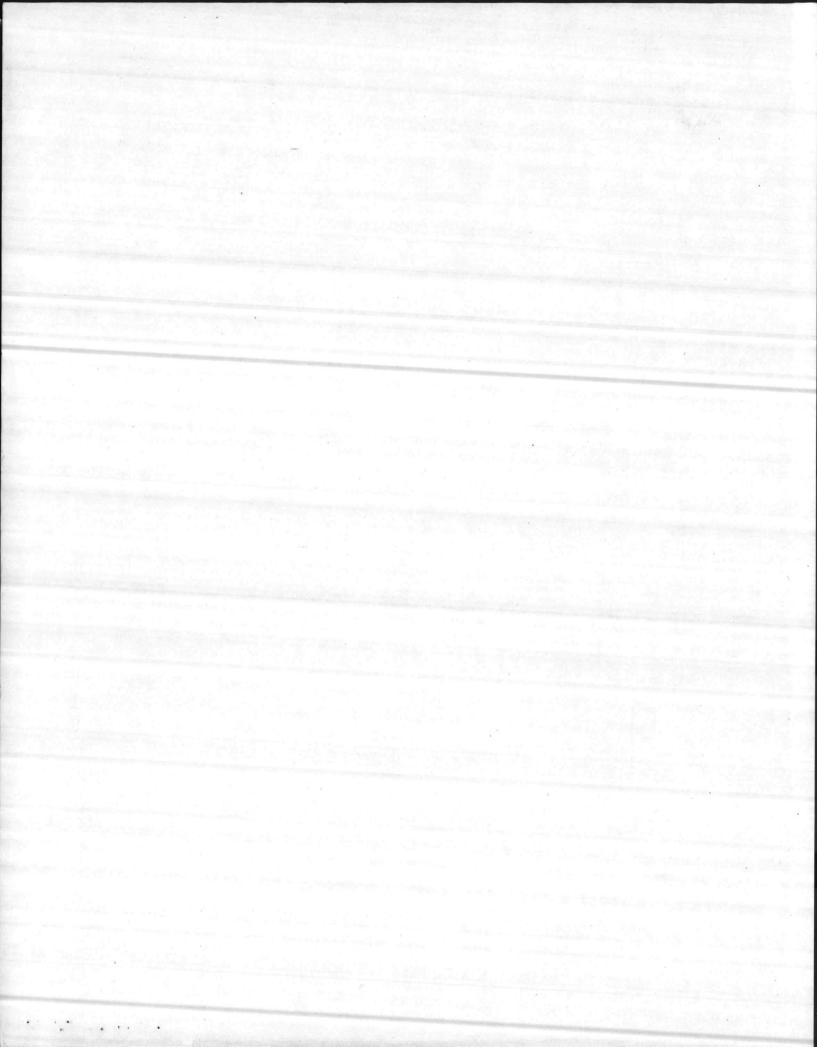
Station is located about 3 miles southeast of Swansboro, on the west end of Bogue Banks and at the Swansboro, Bogue Inlet US Coast Guard Station. It is 93 feet southwest of boat ramp, 57½ feet south of the approximate center of signal tower and 40½ feet east of loading platform. Station is marked by 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 that is within a 2 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. 1 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 1 1962.

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 1 inch by 5 foot galvanized pipe that is within a 2 inch by 5 foot galvanized pipe. The disk is stamped GUARD NO 2 1962 and projects 8 inches above the surface of the ground.

Station was reached by boat from Swansboro.



NAME OF STATION: TOWER NINE

YEAR: 1947 STATE: North Carolina ESTABLISHED BY: C.R.R.

YEAR: 1962 COUNTY: Onslow RECOVERED BY:* S.C. Miller

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

Station recovered as described in good condition. Reference Mark No. 1 and Line Mark EIGHT were recovered in good condition as described.

ASHE	Bearing				Direct	
Camp Lejeune, U.S.M.C Courthouse Bay Water Reference Mark No. 1 Line Mark EIGHT	SE SE	about 5 15.80 16.99	miles 4.816 5.178	205	10	1.6

12 201/42

* 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. Note.-One of these forms must be used for every station recovered.

Comm-DC 34314

Form 526 (11-8-55)

RECOVERY NOTE, TRIANGULATION STATION

NAME OF STATION: VIEW

YEAR: 1932 STATE: North Carolina ESTABLISHED BY: A.P.R.

RECOVERED BY: * S.C. Miller YEAR: 1962 COUNTY: Onslow

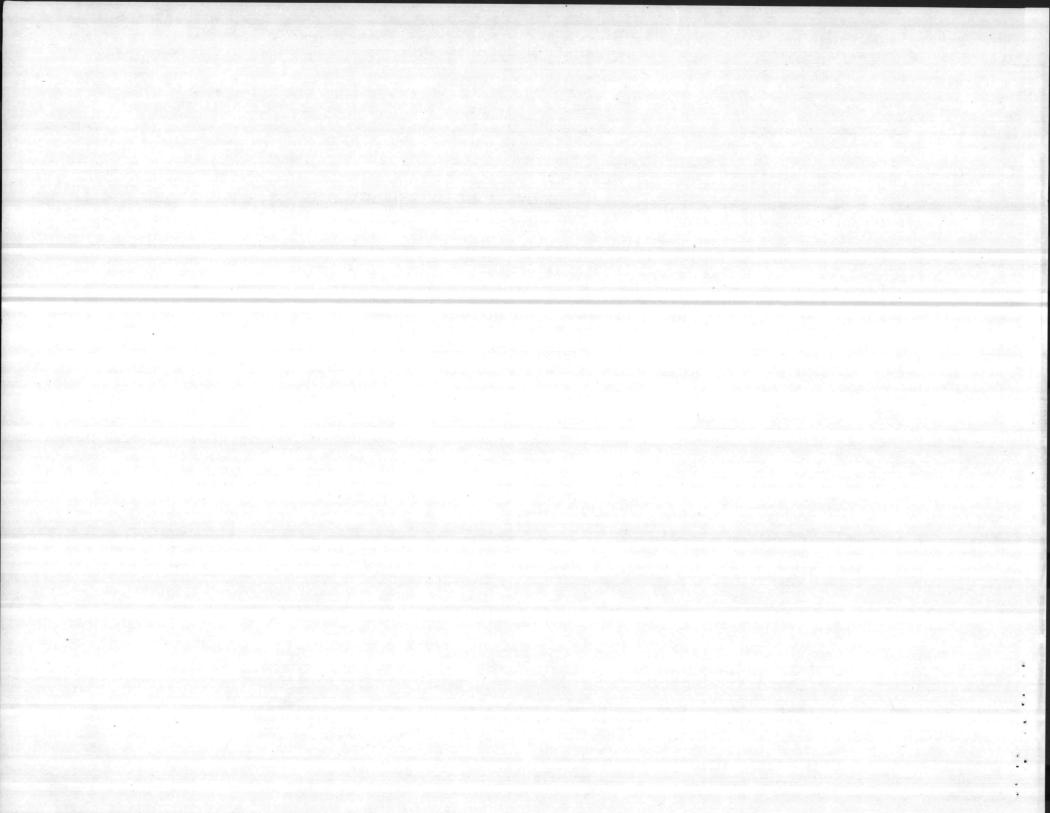
Detailed statement as to the fitness of the original description; including marks found, stampings, changes made, and other pertinent facts: Station recovered in good condition and as described with the exception that the marks were found without stampings. The marks were stamped as follows:

Station is marked by a standard disk stamped VIEW 1932. Reference Mark No. 1 is marked by a standard disk stamped VIEW NO 1

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

Object	Bearing			Directions	
TRAPS		feet meters	00	00	00.0
Reference Mark No. 1 Reference Mark No. 2	E SE	109.97 33.52 1 109.45 33.36	128	26	26
Camp Lejeune, U.S.M.C., Courthouse Bay Water Tank	NE /	about 6 miles	291	04	22.4

^{*} 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. NOTE .- One of these forms must be used for every station recovered.



NAME OF STATION: ASHE

STATE: North Carolinacounty: Onslow

CHIEF OF PARTY: S.C. Miller

YEAR: 1962

DESCRIBED BY: H.C. Howes

D	SUBFACE-STATION MARK	DISTANCES AND DIRECTIONS TO AZIMUTH MARK, REFERENCE M. OBJECTS WHICH CAN BE SEEN FROM THE GROUND AT					ID PROM	AINENT
Desc.	UNDERGROUND-STATION MARK	OBJECTS WHICH CAN BE SEEN FROM THE GROUND AT T				THE STATION		
	TOWER SEVEN 1947		BEARING	DISTANCE		DIRECTIONS		
				FEET	METERS	Early Tools	3 - 1 - 1	
			Trans.	1,787-12	- 35 (5 5)	80	OÓ	00.0
	New River Light 2 Reference Mark No. Reference Mark No.	1	SW NW NE	about ½ 64.73 60.23	mile 19.730 18.358	49 78 153	36 29 21	34.7 35 45

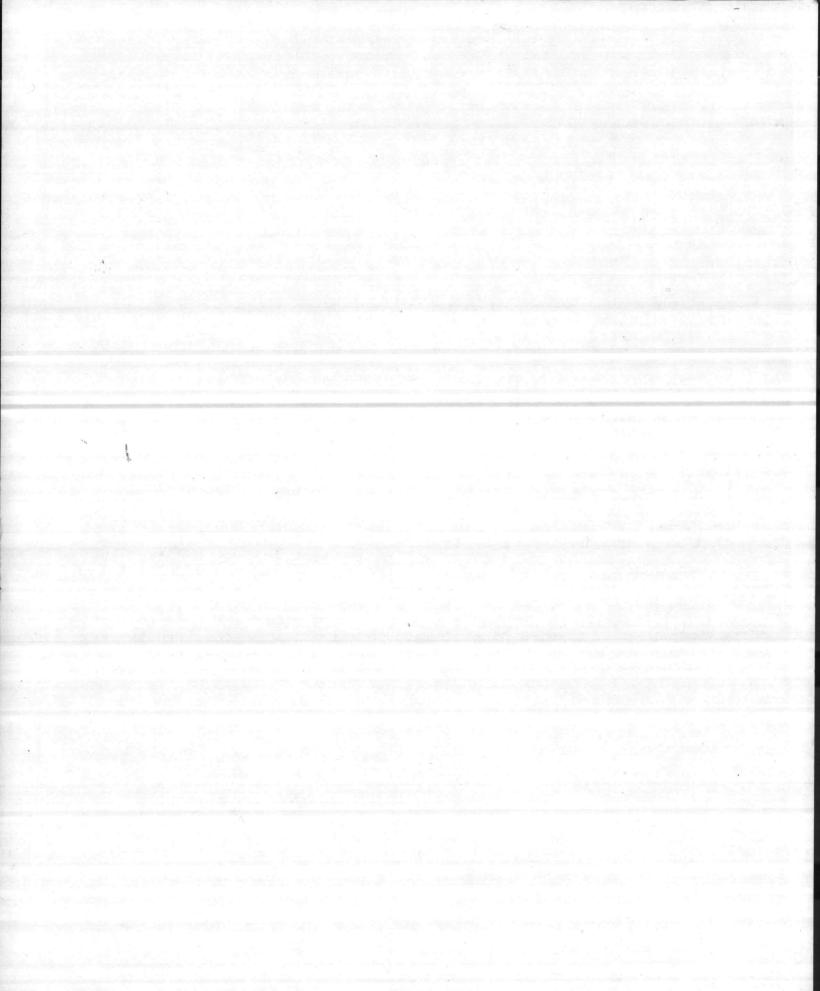
Station is located on Topsail Island about 10 miles northeast of Surf City, about 9 miles east of Holly Ridge and about 4 miles southwest of New River Inlet. It is 91 feet west of powerline pole no. N 345, 63 feet northwest of the approximate centerline of surfaced road, 62 feet northeast of powerline 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 $2\frac{1}{2}$ 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 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.

^{*}Refers to notes in manuals of triangulation and state publications of triangulation. IDirection angle measured clockwise, referred to initial statement 1To nearest meter only, when no trigonometric leveling is being done.



Form 525b (11-8-55)

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

DESCRIPTION OF TRIANGULATION INTERSECTION STATION

Name of Station: Swansboro, Municipal Water Tank

CHIEF OF PARTY: S.C. Miller YEAR: 1962 STATE: N. Carolina County: Onslow

Description, including sketch of object:

Station is located in the west part of Swansboro, one block south of State Highway 24.

It is a steel tank, supported by 4- steel channel laced legs.

Tank is about 110 feet in height, silver in color and has a steel ball on top.

Point intersected is the steel ball on top.

Described by G.F.

MEGM COMM-DC 3431

