

6365a
6365b

U. S. COAST & GEODETIC SURVEY
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Form 504
Ed. June, 1923

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
R. S. Patton, Director

State: North Carolina

DESCRIPTIVE REPORT

Topographic } Sheet No. "G" & H.
Hydrographic }

LOCALITY
Currituck Sound
~~Cornlock Bay & vicinity~~
Tull Bay and Cornlock Bay

1935

CHIEF OF PARTY
Raymond P. Eymann

U. S. GOVERNMENT PRINTING OFFICE: 1923

6365a
6365b
6365c
6365d

64

25
applied to chr 1227 - Tues. 36 - J. S. Bonds
T-6365 a+b applied to chr 830, May 10, 1937. R29

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. "G" T6365 a

REGISTER NO.

State North Carolina

General locality Currituck Sound¹⁴ County

Locality Tull Bay and Coinjock Bay²⁴
Coinjock and Vicinity

Scale 1/10,000 Date of survey January, 1935

Vessel M. V. Natoma

Chief of Party Raymond P. Eymann

Surveyed by John C. Bull, Aid and J. H. Tiller Jr., Observer

Inked by John C. Bull

Heights in feet above to ground to tops of trees

Contour, Approximate contour, Form line interval feet

Instructions dated August 31, 1934

Remarks:

DESCRIPTIVE REPORT
TO ACCOMPANY
TOPOGRAPHIC SHEET "G"
COINJOCK BAY & VICINITY
PROJECT No. H. T. 189 1935

M. V. NATOMA

R. P. EYMAN? COM'DG.

INSTRUCTIONS:

Instructions issued for project H.T. 189 were followed throughout.
Instructions dated: August 31, 1934

METHOD OF SURVEY:

The usual plane-table methods were used. Hydrographic signals were located by plane-table intersection from triangulation stations and located hydrographic stations. The topography along the shore line was done directly from these signals and three point fixes. No elevations were taken on this project.

EXTENT:

This sheet comprises a survey of the shore line along Bells Island, Goose castle, Cedar Bay; Cedar Island, Cedar Island Bay and Coinjock Bay from a point 370 m. north of signal "DOK" and triangulation station "GOOSE 2 1935" on the north (Lat. 36 -- 23.0) to triangulation stations "DITCH 1935" and CANAL 1911 on the south (Lat. 36 - 23.0)

DESCRIPTION:

This sheet was surveyed by two parties. Mr. Bull surveyed the shore line from triangulation station "GOOSE "2" west along Goose Castle, Cedar Bay, Cedar Island, and Cedar Island Bay to a point 124 m. S.E. of signal "IT"; thence from triangulation station "DITCH" N.W. to a point 371 m. ~~XXXXXX~~ N.W. of signal "HOG"; thence from a point 173 m. S. of signal "FIB" to a point 570 m.S. of signal "FIB", the two islands north of Long Point, the Bells Island road and canal and section of road S.W. of signals "CON" and "FUZ". The row of piling between Bn. #41 ("SAL") and Bn. #39 ("NON") and from a point 215 m. W. of Bn. #41 ("NON") to unlighted Bh. ("DIP") were located by the hydrographic party and transferred to this sheet.

The rest of the shore line was surveyed by Mr. Tiller.

The shore line on this sheet is sharply defined by the edge of the marsh grass and there is no difference between the high and low water line except along the eastern half of Goose Castle. Here a narrow sand is found. In the vicinity of Goose "2" 1935 a high bluff is found. The road to Bells Island was located by three point fixes. The canal just south of the road was formed when the road was built and is used by small boats only.

The section of road S.W. of signals "CON" and "FUZ" was xrodded in from a three point fix. The pile cluster 266 m. E of unlighted Bn. "FUN" was located by cuts to the center of the cluster. This is the remains of an old loading pier.

MAGNETIC MERIDIANS:

Magnetic meridians were taken at triangulation stations Bell 1911, 31, 35. and Ditch 1935.

NEW NAMES:

The names Goose Castle and Long Point do not appear on the U.S.C.&G.S. charts. They are well established local names and appear on this sheet in pencil.

AERIAL PHOTOGRAPHS:

No aerial photographs for this area had been received therefore a detail survey was made.

JUNCTION:

This sheet joins sheet "F" on the north at a point 379 m. N. of signal "DOK" and sheet "I" at triangulation stations "DITCH" and "CANAL" on the south.

SCALE & CONTROL:

The topography on this sheet was done on a scale of 1/10,000. The control consist of second and third order triangulation brought foward from the first order line BELL LEE, C. D. M. 1931.

STATISTICS:

Shore line,	statute mi. of	31.0
Roads	" " "	2.2
Area	Square mi. of	8.0

LANDMARKS:

The only land marks of importance are the beacons. These appear on Form #567 Landmarks for Charts.

Approved and fowarded,
Raymond P. Eyman
R.P. Eyman, Hyd. & Geod. Eng.
Chief of Party.

Respectfully submitted,

John C. Bull
John C. Bull, Aid
U.S.C.&G. Survey.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

Elizabeth City, N.C.

October 10, 1935

DIRECTOR, U.S. COAST AND GEODETIC SURVEY:

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted:

Raymond P. Eymann, Chief of Party.

DESCRIPTION	POSITION						METHOD OF DETERMINATION	CHARTS AFFECTED	
	LATITUDE			LONGITUDE					DATUM
	°	'	D.M. METERS	°	'	D.P. METERS			
"DOK" Water tank ✓	36	25	1559	75	58	264	N.A.	Topo.	1227, 3252, 830
"SAL" BEACON # 39 ✓	36	25	1751.1	75	57	695.9	N.A.	Triang.	Same "
"NON" BEACON # 41 ✓	36	25	116.0	75	57	183.0	N.A.	"	Same "
"DIP" Unlighted BEACON ✓	36	24	350.1	75	57	473.1	N.A.	"	Same "
"FUN" Unlighted BEACON ✓	36	24	1119.5	75	59	632.2	N.A.	"	Same "

A list of objects carefully selected because of their value as landmarks as determined from seaward, together with individual descriptions, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report.

The selection, determination, and description of these points are an important factor in the value of the chart. Landmarks selected at appropriate intervals can be clearly charted. However, when none is outstanding, a group of two or three objects may by their interrelationship provide positive identification. A group so selected should be indicated.

The description of each object should be short, but such as will clearly identify it; for example, a standpipe, elevated tank, gas tank, church spire, tall stack, red chimney, radio mast, etc. Assign numerals to landmarks to indicate: (1) Offshore, (2) inshore, (3) harbor, 1, 2, 3 would be a mark useful on all charts. Generally, flagstaves and like objects are not sufficiently permanent to chart.

POSITION OF HYDROGRAPHIC SIGNALS
COINJOCK BAY & VICINITY
TOPOGRAPHIC SHEET "G"

Signal	Description	Latitude			Longitude			Remarks
		Deg.	Min.	Sec. meters	Deg.	Min.	Sec. meters	
FIB	NONE	36	25	259 (1590)	75	59	880 (615)	NONE
DUK	"	"	"	533 (1316)	"	"	1329 (166)	"
ZUP	"	"	"	916 (933)	76	00	141 (1354)	"
GOP	"	"	"	1400 (449)	76	59	1377 (118)	"
WOW	"	"	"	1494 (355)	"	"	941 (554)	"
HUS	"	"	"	1257 (592)	"	"	339 (1156)	"
HUM	"	"	"	1546 (303)	75	58	1381 (114)	"
HIM	"	"	"	1109 (740)	"	"	1103 (392)	"
GET	"	"	"	727 (1122)	"	"	691 (804)	"
FOR	"	"	"	333 (1516)	"	"	240 (1255)	"
GAL	"	"	"	10 (1839)	75	57	1142 (353)	"
ZOT	"	"	"	350 (1499)	"	"	1213 (282)	"
ME	"	"	"	636 (1213)	"	"	1434 (61)	"
LAP	"	"	"	1044 (805)	"	"	1427 (68)	"
DOK	"	"	"	1559 (290)	75	58	264 (1231)	"
SUB	"	"	"	45 (1804)	75	56	718 (777)	"

TOPOGRAPHIC SHEET "C"

Signal	Description	Latitude			Longitude			Remarks.
		Deg.	Min.	Sec. meters	Deg.	Min.	Sec. meters	
WIG	NONE	36	25	512 (1337)	75	56	38 (1457)	NONE
TOP	"	"	"	1049 (800)	"	"	51 (1444)	"
RUB	"	"	"	1134 (715)	"	"	1025 (470)	"
NO	"	"	"	1328 (521)	"	"	300 (1195)	"
TOX	"	36	24	1409 (440)	"	"	1054 (441)	"
NIT	"	"	"	927 (922)	"	"	390 (1105)	"
LOG	"	"	"	121 (1728)	"	"	603 (892)	"
SO	"	"	"	38 (1811)	75	55	1449 (46)	"
TUM	"	"	"	1196 (653)	75	57	843 (652)	"
MAP	"	"	"	92 (1757)	"	"	1484 (11)	"
NUB	"	"	"	2 (1847)	75	58	1143 (352)	"
HOG	"	"	"	509 (1340)	75	59	265 (1230)	"
FUZ	"	"	"	875 (974)	"	"	777 (718)	"
COM	"	"	"	1130 (719)	"	"	1165 (330)	"
HOR	"	"	"	1494 (355)	"	"	965 (530)	"
TIDE	"	36	23	688 (1161)	75	55	1227 (268)	"
RYE	"	"	"	615 (1234)	75	56	496 (999)	"
IT	"	"	"	1458 (391)	"	"	1147 (348)	"

TOPOGRAPHIC SHEET "G"

Signal	Description	Latitude			Longitude			Remarks.
		Deg.	Min.	Sec. meters	Deg.	Min.	Sec. meters	
HIL	NONE	36	23	1789 (60)	75	57	940 (555)	NONE
COB	"	"	"	547 (1302)	75	58	308 (1187)	"
ABL	"	"	"	1218 (637)	"	"	714 (781)	"

REVIEW OF TOPOGRAPHIC SURVEY No. 6365a Field Letter G

Title (Par. 56) *Tull Bay and Coinjock Bay, Currituck Sound, North Carolina*Chief of Party *R.P. Eyman* Surveyed by *J.C. Bull*
J. H. Jiller, Jr. Inked by *J.C. Bull*Ship *Natoma* Instructions dated *Aug. 31, 1934* Surveyed in *Jan. 1935*

1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 7, 8, 9, 13, 16.) ✓
2. The character and scope of the survey satisfy the instructions. ✓
3. The control and closures of traverses were adequate. (Par. 12, 29.) ✓
4. The amount of vertical control that the Manual specifies for -contours-formlines- was accomplished. (Par. 18, 19, 20, 21, 22, 23.)
No elevations taken.
5. The delineation of -contours-formlines- is satisfactory. (Par. 49, 50.)
No contours.
6. There is sufficient control on maps from other sources that were transmitted by the field party to enable their application to the charts. (Par. 28.)
None submitted.
7. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.) ✓
8. The representation of low water lines, reefs, coral reefs and rocks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41.) *Low water line not shown. No reefs or rocks in this area.*
9. Rocks and other important details shown on previous surveys and on the chart were verified. (Par. 25, 26, 27.)
No rocks in this area
10. The span, draw and clearance of bridges are shown. (Par. 16c.)
Only one small bridge. Clearance given on H-5899 (1935)
11. Locations and elevations of summits are given. (Par. 19, 51.)
Flat area. No summits.
12. ~~The tree line was shown on mountains. (Par. 16g.)~~
No mountains

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Use reverse side for extending remarks.

13. The descriptive report covers all details listed in the Manual, in so far as they apply to this survey. (Par. 64, 65, 66, 67.) ✓
14. ~~The descriptive report also contains additional information required in aere topography relative to type of photographs, method of compilation and type of ground control.~~
15. The descriptions of recoverable stations and references to shore line were accomplished on Form 524. (Par. 29, 30, 57, 67 except scaling of DMS and DPs, 68.) ✓
Description of only one station, (Dok) submitted.
16. A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.) ✓
17. The magnetic meridian was shown and declination was checked. (Par. 17, 52.) *Meridian shown. No evidence declination was checked.*
18. The geographic datum of the sheet is *N.A. 1927* and the reference station is correctly noted. (Par. 34.) ✓
19. Junctions with contemporary surveys are adequate. ✓
20. Geographic names are shown on the sheet and are covered by the Descriptive report. (Par. 64, 66k.) ✓
Name "Coinjock Bay" too large
21. The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46, 47, 48, 49, 50.) ✓
CKG
22. No additional surveying is recommended. ✓
23. The Chief of Party inspected and approved the sheet and the descriptive report. ~~after review by~~
24. Remarks: *Air photos are in the field at this time and have not been compiled.*

Reviewed in office by *R. L. Johnston* *Mar. 19, 1936*
Inspected by A. F. Shalowitz

Examined and approved:

C. H. Green
Chief, Section of Field Records

L. O. Robert
Chief, Division of Charts

Fred. L. Rowock
Chief, Section of Field Work

G. H. Hude
Chief, Division of Hyd. and Top.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES
REG. NO.
OCT 16 1935
Acc. No.

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. "H" T6365 b

REGISTER NO.

State North Carolina

General locality Currituck Sound
Tull Bay

Locality Tull Bay and Coinjock Bay
North West River

Scale 1/10,000 Date of survey Jan., 1935

Vessel M.V. Natoma

Chief of Party R. P. Eymen

Surveyed by J.H. Tiller Jr.

Inked by J.H. Tiller Jr.

Heights in feet above _____ to ground to tops of trees

Contour, Approximate contour, Form line interval _____ feet

Instructions dated August 31, 1934

Remarks: _____

DESCRIPTIVE REPORT
TO ACCOMPANY TOPOGRAPHIC
SHEET "H"

TULL BAY AND NORTHWEST RIVER

Instructions

This work was done in accordance with instructions dated August 31, 1934 for Project HT-189, M.V. Natoma.

Limits and Scale

The sheet covers a survey of Tull Bay and a portion of Northwest River as far west as triangulation station Boyd 1934, and was done on a scale of 1-10,000. It is joined on the east by sheet "D" and on the west by "H".

Control and Survey Methods

Six triangulation stations gave adequate control for Tull Bay proper, and a traverse of 2.3 miles was run from \odot End to \triangle Boyd and closed with an error of two meters.

All of the topographic stations, except for above traverse, were located by planetable cuts and resection.

Considerable difficulty was experienced with the area around Hog Island. \odot On had been previously located on sheet "D" and then transferred to this sheet. Allocation on this sheet was found to give it a position slightly to the northward, which seemed at first to be caused by either distortion or a slight difference between the two systems of triangulation (that executed by this party and the spur run by Lt. K.G.Crosby, which were not directly connected at this point. In order to test this later (after first checking the sheet for distortion) a three point theodolite fix was obtained and computed for \odot On with directions to the stations of Crosby's scheme. This fix and azimuths checked the position as given on sheet "D" and proved the two triangulation schemes to be in agreement. A zinc sheet was then carefully laid out for this area and the stations plotted thereon. This sheet was then used in the field and found to agree very well and all signals cut in with it. It appears therefore that a slight accumulation of errors on the edges of both sheets "D" and "H" was responsible for the original discrepancy, in each case so slight as to be undetected when each sheet was again checked over.

DESCRIPTION:

The south shore of Tull Bay is bordered by a fringe of pine and cypress trees. The other shoreline of this sheet is bordered by marsh lands extending back varying distances to the tree line. Throughout this area the shoreline is dotted with numerous fishnet stakes.

The Launch is a small landing used by local fishermen and hunters.

Northwest River is a very irregular river with a shoreline bordered mainly by marsh lands.

MAGNETIC MERIDIANS.

One magnetic meridian was determined on this sheet and that at station Landing 1935.

ALUMINUM SHEET:

An aluminum sheet was used and found to be very satisfactory

NEW NAMES:

No new names appear on this sheet.

LANDMARKS:

Landmarks appearing on this sheet are forwarded on form 567

STATISTICS:

SHORELINE	22.0 Stat. Miles
TRAVERSE	2.4 Stat. Miles.
Area	10 sq. miles.

Respectfully submitted,

James H. Tiller Jr.
James H. Tiller, Jr.,
Accountant. Brewer.

APPROVED:

Raymond P. Eyman
Raymond P. Eyman, H.&.G. Engr.
Chief of Party.

List of positions of Signals

<u>Name</u>		<u>Latitude</u>		<u>Longitude</u>	<u>Remarks</u>
Elk	36 30	356 (1493)	- - - 76	02 828 (665)	marked by disc
Fin		419 (1430)		1124 (369)	
Bab		310 (1539)		1368 (125)	
Bid		125 (1724)		03 349 (1144)	
Bog	29	1626 (223)		1016 (478)	
Cage		1537 (312)		04 378 (1115)	
Chan		1782 (67)		1015 (478)	
Mark		1447 (402)		05 59 (1434)	bridge upright
Dark	30	625 (1224)		04 1239 (254)	
Die		1091 (758)		935 (558)	
Ear		1319 (530)		1230 (263)	
Lint		1410 (439)		05 467 (1020)	
Jew		1789 (60)		889 (604)	
Hard	31	466 (1383)		1010 (483)	
Grin		1009 (840)		1044 (449)	
Ern		1427 (422)		06 279 (1214)	
Fail		1073 (776)		83 (1410)	
Fish		920 (939)		05 779 (714)	
Gaf		645 (1204)		733 (760)	
Ick		198 (1651)		1026 (467)	
Hie	30	1747 (102)		572 (921)	
Dike		1485 (364)		42 (1451)	
End		1520 (329)		04 906 (587)	
Fat	31	298 (1551)		354 (1139)	
Gab		258 (1591)		105 (1389)	
Ham		61 (1788)		03 1122 (371)	
Kill	30	1514 (335)		781 (712)	
Jug		1150 (699)		550 (943)	
Dead		1462 (387)		261 (1232)	
Kiss		1307 (542)		02 1411 (82)	
Char		1709 (140)		1092 (401)	
Bone	31	673 (1176)		1192 (301)	
Fix	30	1795 (54)		04 314 (1179)	
Girl		1315 (534)		03 1442 (51)	
Hot		552 (1297)		744 (749)	
Hug		747 (1102)		178 (1315)	
She		762 (1087)		02 1093 (400)	
Ash	31	1736 (113)		06 338 (1155)	
Boot		1810 (39)		756 (737)	
Cham		1585 (264)		1168 (325)	
Gus	30	1136 (713)		02 745 (748)	
On		1263 (586)		01 1471 (22)	marked by disc.
Day (Out)	29	1459 (390)		02 367 (1126)	" " "
Bat	31	162 (1687)		763 (730)	
Apw		553 (1296)		753 (740)	

Date Nov. 20, 1935.

GEOGRAPHIC NAMES

Survey No. 6365a
6365b

Chart No. 406 & 1227-2

Diagram No. 1227-2

Approved by the Division of Geographic Names, Department of Interior. ✕

Referred to the Division of Geographic Names, Department of Interior. R

Under investigation. Q

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
	<u>Coinjock Bay</u> ✓	1227			
	<u>Bell's I.</u> ✓	D.G.N.			
	<u>Cedar Bay</u> ✓	Cedar Bay			
	<u>Cedar I.</u> ✓	T-657			
	<u>Cedar I. Bay</u> - ✓	"			
	<u>Goose Castle</u>			R	
	<u>Long Point</u>			R	
	Long Point				6
	<u>Northwest River</u> ✓				
	<u>Tulls Bay</u>	<u>Tull Bay</u> ✓			
	<u>The Launch</u> ✓	Note - a water feature, name of pass (see D.R. of H-5897 pg. 4)			
	<u>Tull Creek</u> ✓				
<p>Names approved Dec 13 1935</p> <p>C. E. Hynes</p>					

REVIEW OF TOPOGRAPHIC SURVEY No. 63656.

Title (Par. 56) ~~FOR BAY~~ CURRITUCK SOUND, TULL BAY.

FIELD "A"

Chief of Party R. P. EYMAN Surveyed by ~~J. H. TILLER, JR.~~ J. H. TILLER, JR.

J. H. TILLER, JR.

Inked by ~~J. C. B. M.~~

Ship NATOMA Instructions dated Aug. 31, 1934 Surveyed in JANUARY, 1935.

1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 7, 8, 9, 13, 16.) ✓
2. The character and scope of the survey satisfy the instructions. ✓
3. The control and closures of traverses were adequate. (Par. 12, 29.) ✓
4. ~~The amount of vertical control that the Manual specifies for contours-formlines was accomplished.~~ (Par. 18, 19, 20, 21, 22, 23.)
5. ~~The delineation of contours-formlines is satisfactory.~~ (Par. 49, 50.)
6. ~~There is sufficient control on maps from other sources that were transmitted by the field party to enable their application to the charts.~~ (Par. 28.)
7. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.) ✓
8. The representation of low water lines, ~~reefs, coral reefs and rocks,~~ and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41.) ✓
9. Rocks and other important details shown on previous surveys and on the chart were verified. (Par. 25, 26, 27.) ✓
H 5878 complete
~~to check 63656~~
other matter C.H.
OK Feb. 27, 1936
10. ~~The span, draw and clearance of bridges are shown.~~ (Par. 16c.)
11. ~~Locations and elevations of summits are given.~~ (Par. 19, 51.)
12. ~~The tree line was shown on mountains.~~ (Par. 16g.)

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Use reverse side for extending remarks.

13. The descriptive report covers all details listed in the Manual, in so far as they apply to this survey. (Par. 64, 65, 66, 67.) ✓
14. ~~The descriptive report also contains additional information required in aero-topography relative to type of photographs, method of compilation and type of ground control.~~
15. The descriptions of recoverable stations and references to shore line were accomplished on Form 524. (Par. 29, 30, 57, 67 except scaling of DMs and DPs, 68.) ✓
16. A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.) ✓
17. The magnetic meridian was shown and declination was checked. (Par. 17, 52.) ~~Declination is 15' higher than charted value~~ ✓
No evidence that declination was checked.
18. The geographic datum of the sheet is N.A. 1927 (unadjusted) and the reference station is correctly noted. (Par. 34.) ✓
added in the office.
19. Junctions with contemporary surveys are adequate. ✓
20. Geographic names are shown on the sheet and are covered by the Descriptive report. (Par. 64, 66k.) ✓
21. The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46, 47, 48, 49, 50.) ✓
22. No additional surveying is recommended. ✓
23. The Chief of Party inspected and approved the sheet and the descriptive report after review by *[Signature]*
24. Remarks: *Work done prior to aerial photographic compilation.*

Reviewed in office by *[Signature]* 2/27/36. Inspected by *A. L. Shalant*

Examined and approved:

[Signature]
Chief, Section of Field Records

[Signature]
Chief, Division of Charts

[Signature]
Chief, Section of Field Work

[Signature]
Chief, Division of Hyd. and Top.