

6422a

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

MAR 20 1936

Acc. No. _____

Form 504
Rev. Dec. 1933
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
R. S. PATTON, DIRECTOR

DESCRIPTIVE REPORT

Topographic Sheet No. C
~~Hydrographic~~

State VIRGINIA

LOCALITY

Nansemond River

Pig Pt. to Sleepy Hole Pt.

1934

CHIEF OF PARTY

J. C. Bose, Lieut., C&GS.

6422a

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

REG. NO.

MAR 20 1936

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. ^{6422a} C **6422a**

REGISTER NO.

State VIRGINIA

General locality South-eastern Part

Locality Nansemond River ^{Pig Pt. to Sleepy Hole Pt.}

Scale 1:10000 Date of survey November, 1934

Vessel Launch WELKER

Chief of party J. C. Bose

Surveyed by J. C. Bose

Inked by J. C. Bose

Heights in feet above _____ to ground to tops of trees

Contour, Approximate contour, Form line interval _____ feet

Instructions dated January 23, _____, 1934

Remarks: _____

DESCRIPTIVE REPORT
to accompany Sheet (Field) No. C

INSTRUCTIONS:

The survey was made in accordance with instructions dated January 23, 1934 and supplemental instructions dated January 26, 1934. These instructions were issued to the commanding officer of the OCEANOGRAPHER. The work was done by J. C. Bose under orders dated August 14, 1934 but the same instructions were complied with.

LIMITS:

The sheet covers that part of the Nansemond River, Virginia, lying between latitude $36^{\circ}54'4$ and latitude $36^{\circ}50'6$.

GENERAL DESCRIPTION:

Most of the shoreline of the river is bordered by marshy land. Some of this marsh consists of a narrow fringe and some of it extends back for a considerable distance, especially where creeks flow into the river. Where the fast land occurs, it usually has a sharp slope and a fairly definite tree line. The fast land does not attain any appreciable altitudes and 25 or 30 feet probably represent the maximum altitudes.

Viewed from midstream, the banks of the river appear to be thickly wooded behind the marsh line. The woods, however, do not have much breadth in most places but generally consist of a thin fringe of trees, behind which the land is cultivated. Many farmhouses and clubhouses dot both banks.

The outer edge of the marsh has a definite outline in most places and this outline was interpreted by the topographer as the high water line which should be shown on the chart. Inshore from this line the land, or marsh, is usually covered by only a few inches of water and it is firm enough to make walking easy. This line is shown on the sheet as a solid pencil line, up to which the symbol representing marsh is drawn. Off shore from the definite marsh line, there is a fringe of grass which grows in the water but is patchy, thin, irregular, and always covered by water except at low water. The outer limit of this thin grass is shown in a generalized form by a dotted pencil line and coincides fairly well with the mean low water line.

The fast land line, inshore from the marsh line, is shown on the sheet as a solid line, partly drawn in ink and partly in pencil. Where the fast land line was actually located by telemeter readings, it is drawn in ink and where it was merely estimated and sketched, it is shown in pencil.

At times the two types of marsh vegetation - the firm and the thin reeds - merge gradually and imperceptibly together and at times the firm marsh and the fast land merge gradually into one shore line.

A copy of a letter from the Director, dated November 13, 1934, in regard to the method of indicating the marsh line is attached to this report.

LANDMARKS:

On an inland waterway, such as the Nansemond River, landmarks are not as essential as on the open coast, especially as the channel is marked by bouys and beacons. The only object worth charting as a land mark is the elevated steel water tank at the southern limit of the sheet, on the east bank. (Sleepy Hole Tank, 1934)

83

CONTROL:

The control consisted of a scheme of second order triangulation. As the stations were close together, orientation was nearly always easy, especially as the second order triangulation control was supplemented by other objects located by planetable triangulation. The only region where control was not strong is the southern end of Bennett Creek. A three-point fix was obtained at signal FIX and a traverse run south from this point.

GEOGRAPHIC NAMES:

All of the names are well established and most of them already appear on the present chart (No. 529). Any new names were ascertained from local residents and verified by U.S.E. prints.

CHANGES OF SHORE LINE:

It is believed that the shore line is not subject to much change, except where the shore line consists of clay bluff (indicated by hachures). The clay bluffs show effect of erosion. The hurricanes of August and September, 1933, probably accomplished more erosion than normally would occur in several years. These two storms destroyed the piers which are shown as dashed lines.

J. C. Bose
J. C. Bose,
Topographer, Chief of Party.

DATA ON NANSEMOND RIVER BRIDGE

Type --- bascule approached by ~~girder~~ ^{truss} construction.

Total length --- 5760 feet.

Length of draw span --- 136 feet.

Clearance between fenders --- 94.6 feet.

Clearance above M. H. W. at center of draw --- 20 feet.

Clearance above M. H. W. at side of draw --- 15 feet.

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

Norfolk, Virginia

November 29, 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:

J. C. Bose, Chief of Party.

DESCRIPTION	POSITION						METHOD OF DETERMINATION	CHARTS AFFECTED	
	LATITUDE			LONGITUDE					
	°	'	D.M. METERS	°	'	D.P. METERS			DATUM
(3) Elevated Water Tank (Sleepy Hole Tank, 1934)	36	50	1226.0	76	51	103.6	NA'27	Triang.	529

This station appears on T. 6421a and 6422a

EVZ

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.

POST-OFFICE ADDRESS:

C O P Y

TELEGRAPH ADDRESS:

EXPRESS ADDRESS:

DEPARTMENT OF COMMERCE

20-RS
1990 (6)

U. S. COAST AND GEODETIC SURVEY
WASHINGTON

November 13, 1934

To: Lieutenant J. C. Bose,
Coast and Geodetic Survey,
General Delivery,
Suffolk, Virginia.

From: The Director,
U. S. Coast and Geodetic Survey.

Subject: Indication of marsh line on topographic sheets,
Nansemond River.

Referring to the question raised during a recent inspection of your party by the Chief of the Division of Hydrography and Topography regarding the showing on your topographic sheets of the marsh line and fast land line, you will show the fast land line as the ordinary shore line. You will show the marsh line by a solid pencilled line with the outer edge of the regular marsh symbol making a neat junction with the pencilled line, which should be left on the sheet after inking. A final decision will be made in this office later upon receipt of the topographic sheets as to the method of showing the outer marsh line in chart construction.

You will please call attention to this matter in the descriptive reports on the sheets.

(Signed) R. S. Patton
Director.

Remarks

Decisions

	Remarks	Decisions
1	Campbells Creek on behalf 529	Campbell Creek
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3	④ government unit: month day of L.M.	
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GEOGRAPHIC NAMES

Survey No. 6422 a

Name on Survey	On Chart No. 529		On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List	
	A	B								
<u>Cedar Pt.</u> ✓	*		-							1
<u>Nansemond River</u> ✓	*		✓							2
<u>Whirlhole Creek</u> ⊕										3
<u>Bennett Creek</u> ✓	*		-							4
<u>Campbell Creek</u> ✓			*							5
<u>Newmans Pt.</u> ✓	*		✓							6
<u>Ferry Pt.</u> ✓	*		-							7
										8
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Names underlined in red approved
 by *ORH* on 4/14/30

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY DESCRIPTIVE REPORT PHOTOSTAT OF	}	No. H No. T 6422 a	{	received March 20, 1936 registered April 9, 1936 verified reviewed approved
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This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

ROUTE		Initial	Attention called to
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✓ 83			<i>Landmarks - top page 2 - P.P.</i>
88			
90			

RETURN TO

82	
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C. K. Green *April 11, 1936*

REVIEW OF TOPOGRAPHIC SURVEY No. 6422 a (1934) Field No. "C"

Title (Par. 56) *Pig Pt. to Sleepy Hole Pt., Nansemond River, Va.*Chief of Party *J. C. Bose* Surveyed by *J. C. Bose* Inked by *J. C. Bose*Ship *Oceanographer* Instructions dated *Jan. 23, 1934* Surveyed in *Nov. 1934*

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.) ✓
No closure for traverse south of O Fix, Bennett Creek (see D.R. p. 2)
4. ~~The amount of vertical control that the Manual specifies for contours-formalines was accomplished. (Par. 18, 19, 20, 21, 22, 23.)~~
5. ~~The delineation of contours-formalines 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.) ✓ *? see a.L.S.*
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.) ✓
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 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.) *No descriptions of recoverable stations on Office.*
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.) *No evidence in the D.R. that the 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.) ✓
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~~ ^{wrote} ✓
24. Remarks:

Reviewed in office by *G. Risegani April 28, 1936.*
Inspected by E.P. Pears May 25, 1936

Examined and approved:

C. K. Green
 Chief, Section of Field Records

L. O. Pollett
 Chief, Division of Charts

J. L. Peacock
 Chief, Section of Field Work

G. W. de
 Chief, Division of Hyd. and Top.

6422b

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

MAR 20 1936

Acc. No. _____

Form 504
Rev. Dec. 1933
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
R. S. PATTON, DIRECTOR

DESCRIPTIVE REPORT

Topographic } Sheet No. D
~~Hydrographic~~

State Virginia

LOCALITY

Chuckatuck Creek, Virginia

1934

CHIEF OF PARTY

J. C. Rose

6422b

T

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

REG. NO.

MAR 20 1936

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.

letter
Field No. _____ D _____

REGISTER NO. **6422 b**

State Virginia

General locality ~~Hampton Roads~~ James River¹⁰

Locality ~~Chucktuck Creek~~¹⁶

Scale 1:10,000 Date of survey December, 1934

Vessel Launch WELKER

Chief of party J. C. Bose

Surveyed by R. H. Carstens

Inked by R. H. Carstens

Heights in feet above _____ to ground to tops of trees

Contour, Approximate contour, Form line interval _____ feet

Instructions dated _____, 19 _____

Remarks: _____

DESCRIPTIVE REPORT

TO ACCOMPANY TOPOGRAPHIC SHEET D

Launch WELKER

J. C. Bose, Chief of Party

Chuckatuck Creek, Va.

Scale -- 1:10,000

The descriptive report covering topographic sheet D is herewith submitted.

GENERAL DESCRIPTION OF SHORE LINE:

The bank of the James River on both sides of the entrance to Chuckatuck Creek slopes steeply upward to a height of about 20 feet and is covered predominantly with evergreen trees. A narrow strip of marsh land or grass land lies between the high water line and the steep bank.

Just inside the entrance to Chuckatuck Creek on the left hand bank the houses of the village of Eclipse can be seen. Only one important dock extends from shore to the channel. The dock holds gas tanks and an oyster house.

The aids to navigation on approaching the entrance are the black lighted beacon and red buoy N-2 near the mouth of Ragged Island Creek and the red lighted beacon at the entrance to Chuckatuck Creek. In Chuckatuck Creek itself, the shoals on both sides of the channel are covered with a maze of mooring posts, and stakes marking the limits of oyster beds.

About a mile upstream from the entrance, the Crittenden Bridge crosses Chuckatuck Creek. The village of Crittenden lies a few hundred meters to the northeast of the bridge on the south bank of Chuckatuck Creek. Numerous small docks and buildings extend from the shore to the channel. About 100 meters to the northeast of Crittenden Bridge on a point of land extending from the north shore

of Chuckatuck Creek, and on the south shore of Chuckatuck Creek the remains of ferry slips mark the location of old ferry landings. The bridge has now replaced the use of the ferry.

The banks on both sides of Chuckatuck Creek rise abruptly a short distance back from the high water line and are covered predominantly with evergreen trees. The narrow strip of land between the high water and the bank consist of grass and marsh land. Short sparse marsh grass extends outside the high water line to the low water mark.

LANDMARKS:

There are no objects of sufficient prominence or permanence to be classed as such.

GEOGRAPHIC NAMES:

New geographic names in this area not previously used in any publication are:

- (1) Eclipse.
- (2) Crittenden. ✓
- (3) Pike Point.
- (4) Moorhes Point. ✓
- (5) Kings Point. ✓
- (6) Brewers Creek. ✓

The first two names are names of villages in this area. The other four names are points of land and a creek; names well established by local use and verified in the field.

CONTROL AND SURVEY METHODS:

The survey was controlled by triangulation established in 1934, no traverses were run. Standard plane-table methods were used, fixes being determined by telemeter distances from triangulation

stations, resection, intersection of cuts and by means of the three point problem method. The survey was made for the purpose of delineating the shore line and the topographic features adjacent thereto and to determine positions of signals for hydrography.

The fast land in this area closely borders the high water line in most cases. The greatest area of marsh land exist in guts following small streams back into the fast land area. These guts of marsh land were followed only a short way back from Chuckatuck Creek.

In accordance with correspondence of November 13, 1934, the shore line except where it was definitely bordered by fast land was left as a solid line in pencil to be inked in, in the office. The fast land line bordering the marsh was inked in as a fine line where actual telemeter distances were taken; where estimated distances were taken the fast land line was left dotted in pencil. Where the fast land area bordered the waters edge it was inked in as regular shore line.

Accompanying this report is data giving the length, span and clearance of the Crittenden Bridge.

Respectfully submitted

R.H. Carstens

R.H. Carstens, Dk. Off. U.S.C. & G. Survey

Approved

J.C. Bose

J.C. Bose, Lt. U.S.C. & G. Survey

COAST PILOT INFORMATION

On approaching the entrance to Chuckatuck Creek the bank on each side of the entrance appears as steep low lying bluffs covered with evergreen trees. Within the entrance the banks of the creek are tree covered but are not so steep. The shoals on both sides of the channel are covered with mooring posts and stakes marking oyster beds.

The village of Eclipse lies on the south shore of the creek just inside the entrance. The village of Crittenden lies on the same shore about $\frac{1}{2}$ mile further upstream. Both villages have populations of only a couple of hundred people, who have fishing, oystering and farming as their chief occupations. Both villages have stores and docks from which food supplies, water and gas can be secured in limited amounts. No regular hotel accommodations are available. Marine railways for hauling out small craft are operated in Crittenden. The maximum length of craft that can be hauled out is about 110 feet with a maximum tonnage of about 50 tons and a maximum draft of about 7 feet. Due to the bar blocking the entrance to Chuckatuck Creek only much smaller boats now use the railways. Facilities are available for making mechanical repairs to small boat machines as well as hull repairs. Eclipse has no marine railway.

DATA ON CRITTENDEN BRIDGE

Type ---- bascule approached by girder construction.

Total length of bridge ----- 2,395 feet.

Length of draw span ----- 134.5 feet.

Clearance between fenders --- 81.5 feet.

Clearance above M. H. W, at center of draw -- 20 feet.

Clearance above M. H. W. at side of draw ---- 16 feet.

Remarks

Decisions

1		
2	# new name: recommended for chart 529	
3	#	
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5	⊕ recommend omit	
6	#	
7	# recommend one of these point	
8	# names be used, if not both.	
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GEOGRAPHIC NAMES

Survey No. 6422 b

Name on Survey	Source										No.
	A	B	C	D	E	F	G	H	K	Des. Rept	
	On Chart No. 529	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List			
<u>Chuckatuck Creek</u>	*		-								1
<u>Pike Pt.</u>			*								2
<u>Eclipse</u>			*								3
<u>Barrel Pt.</u>	*		-								4
Blink Horn Creek											5
<u>Crittenden</u>			*								6
<u>Moore's Pt.</u>									*		7
<u>Kings Pt.</u>									*		8
<u>Brewers Creek</u>			*								9
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Names underlined in red approved
 by *[Signature]* on 4/14/36

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY }
 DESCRIPTIVE REPORT } No. H
 PHOTOSTAT OF } No. T 6422 b

{ received March 20, 1936
 { registered April 9, 1936
 { verified
 { reviewed
 { approved

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

ROUTE		Initial	Attention called to
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RETURN TO

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C. K. Green *April 11 - '36*

REVIEW OF TOPOGRAPHIC SURVEY No. 6422b

Title (Par. 56) *Chuckatuck Creek, Virginia*Chief of Party *J.C. Base* Surveyed by *R.H. Carstens* Inked by *R.H. Carstens*Ship *Launch Welker* Instructions dated *Jan. 23, 1934* Surveyed in *December, 1934*

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 and lines was accomplished. (Par. 18, 19, 20, 21, 22, 23.)~~
5. ~~The delineation of contours and lines 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.) *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.) ✓
9. Rocks and other important details shown on previous surveys and on the chart were verified. (Par. 25, 26, 27.)

See reverse side

10. The span, draw and clearance of bridges are shown. (Par. 16c.)
Not shown on sheet but contained in D.R. (page 5)
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.

Paragraph 9

T1265 (1871-2)

This survey covers only a very minute part of the mouth of Chuckatuck Creek on the present survey. It is on a scale of 1:20,000 whereas the present survey is on 1:10,000. For these reasons T1265 is of practically no value in making a comparison with the present survey.

T6422b supersedes T1265 in part.

This survey is not covered by chart 78.

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.) *1 Card Submitted*
16. A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.) *None Submitted*
17. The magnetic meridian was shown and declination was checked. (Par. 17, 52.) *Declination checks value on chart.
No note of having checked declinatoire*
18. The geographic datum of the sheet is *N.A. 1927 (Adjusted)* and the reference station is correctly noted. (Par. 34.) ✓
19. Junctions with contemporary surveys are adequate. ✓
Joins T 6422a on the South
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 ^{*Fair*} ~~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~~ ✓
24. Remarks:

Reviewed in office by *Chas. R. Bush Jr.* *July 6, 1936.*

Examined and approved:

E. K. Green.
Chief, Section of Field Records

L. O. Robert.
Chief, Division of Charts

Fred. L. Peacock
Chief, Section of Field Work

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