

4841

4841

Form 504
Ed. June, 1923

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

State: California

U. S. COAST & GEODETIC SURVEY
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MAY 17 1934

DESRIPTIVE REPORT

Topographic ~~XXXXXXXXXX~~ Sheet No. **C** 4841

LOCALITY

Santa Barbara Channel

Anacapa Island

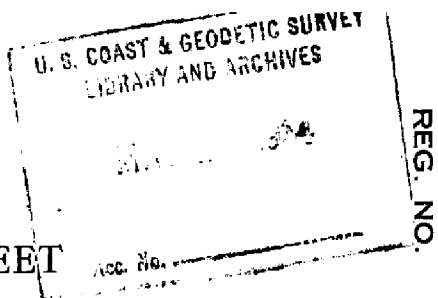
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CHIEF OF PARTY

Charles K. Green

Applied to Chart 5101 - May 1936 E.M.Z.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY



TOPOGRAPHIC TITLE SHEET

REG. NO.
4841

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

Field Letter C

REGISTER NO. 4841

State California

General locality Santa Barbara Channel

Locality Anacapa Island

Scale 1-20,000 Date of survey Jan-Feb, 1933

Vessel Shore Party

Chief of Party Chas. K. Green

Surveyed by Harry T. Kelsh

Inked by Harry T. Kelsh

Heights in feet above H.W. to ground to ~~tops of trees~~

Contour Approximate contour Form line interval 50 feet

Instructions dated Oct 31, 19 32

Remarks: Reviewed by H.W. Murray Jan 2, 1935 Aug. 16, 1934

***** Descriptive Report *****
to accompany topographic sheet 'C'

Santa Barbara Channel, California

ANACAPA ISLAND---lat 34-00

long 119-21 to 119-26 W.

Instructions:- Oct. 31, 1932

General Description

This sheet embraces Anacapa Island, in reality three islands or sections closely joined; lying as a narrow ridge of rock in a general east-west direction on the south side of Santa Barbara Channel about 12 miles off shore, and 4 miles east of Santa Cruz Id.

The islands have a total length of $4\frac{1}{2}$ miles made up by the west section, 2 miles, middle section $1\frac{1}{2}$ miles and east section 1 mile. Except for the west section which attains a maximum width of $\frac{1}{2}$ mile the average width is less than 250 meters.

Coastline

The shoreline is rugged. Steep cliffs surround nearly the entire island and landing is difficult. There are numerous pinnacles and rocks bare at low water lining the shores except near the west end where the island rises out of deeper water.

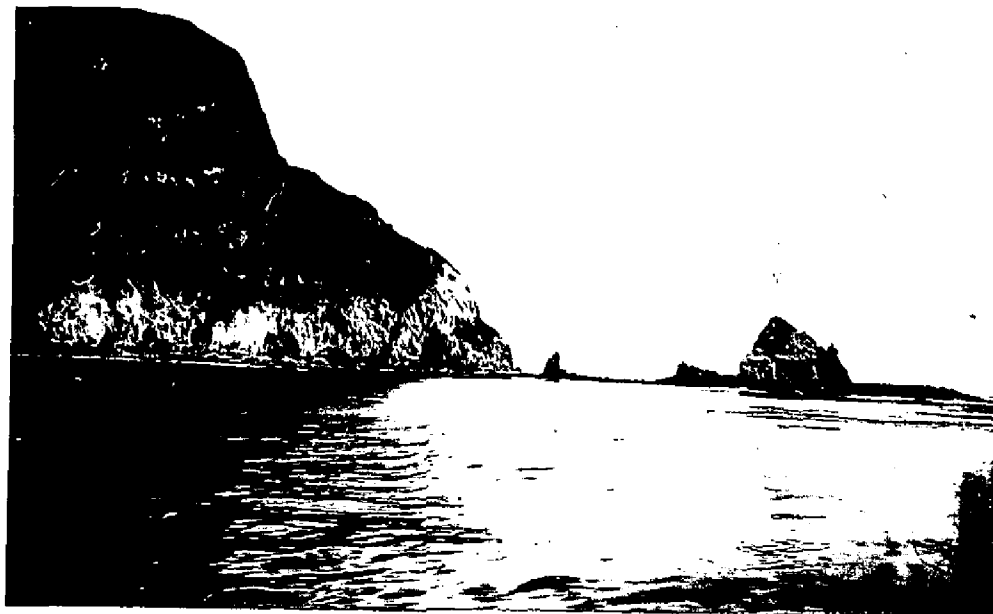
Detailed description

2057. West section. This rocky island rises to an elevation of 930 ft in a sharp point from the west and connected by a saddle to a lower peak (802 ft) then dropping off uniformly to practically sea level at the east end where two small round nubs (250 ft and 80 ft in height) connect this section with the middle portion of the island. The cliffs rise directly out of the water on the north side to 250-300 ft and then round off into a gentle slope which again increases to a steep slope leading to the summit which is nearer the south side of the island, so that on the south side the cliff slope rises sheer to the top.

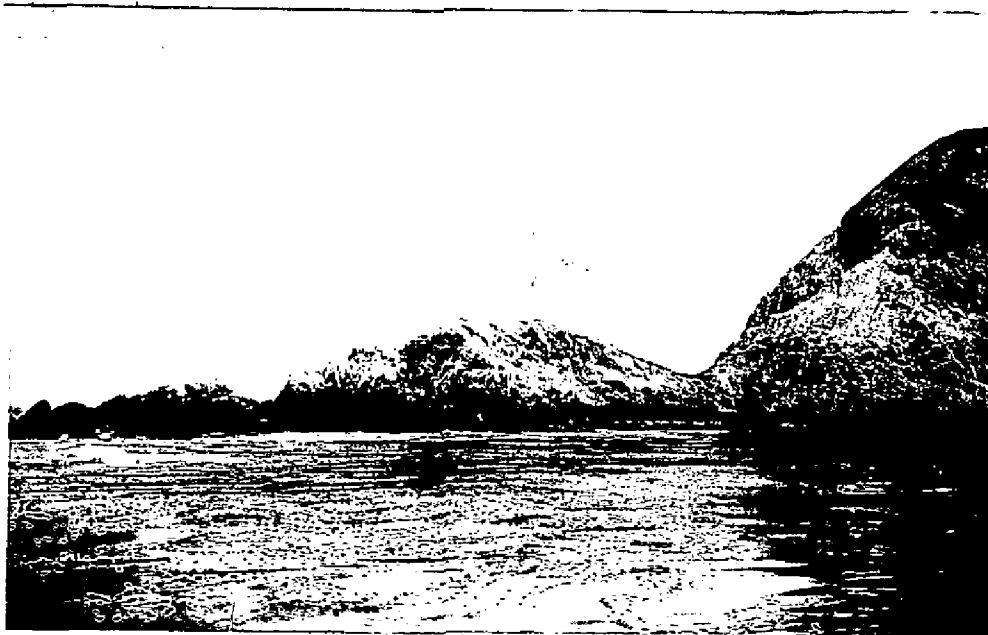
About 100 M. off the south tip of the island, and a mile east of the west end is a high (71 ft) rock joining the main shore by a low water rocky, and boulder reef. This is known as Cat Rock.

Middle section. At the time of previous survey in 1855 this section was actually separated from the west section by a very narrow small boat passage, but this has been completely filled with sand to above the high water line; so that this section is continuous with the west island. It extends east and west as a narrow flat topped ridge with a general elevation of 250 ft. with the steepest slope along the south side.

Between this and the east island is a rock



Cat Rock, south coast Anacapa Island; low tide; distance about 700 feet; looking east 5 degrees south; small boat anchorage for Northeast blows shown in foreground.



Signal Gull, extreme west point of Anacapa Island; distance about 600 feet; looking north northeast; the best trail to Summit Peak is from a landing on either side of Gull.

Anacapa Island

(2)

filled passage practically dry at low water, and impassable for even small boats at any time.

East Section. This island is similar to the middle section. Flat topped with maximum elevation of 250 ft along the south edge of the top where it drops off in vertical cliffs into the water, with numerous offshore pinnacles and half tide rocks lying close in along the base of the cliff.

Arch Rock. This distinctive feature is an 80 ft rock with a fifty foot arch, forming the east tip of Anacapa Island, lies about 100 M. off the eastpoint of the East section of the island.

Except for a very small grove of trees on the north slope of the middle section, and a few trees in the narrow canyons on the north slope leading up to the summit of the west island the whole islands are bare of vegetation except that the tops of the two east islands are covered with grass, as is the north slope of the west island from above the first cliff rise to the steep approach to the summit.

Anacapa Lighthouse has been erected on the east point of the island and the Lighthouse Service has erected at this place also a number of permanent concrete bungalows, and a stairway and hoist in the small bight on the north side of the reservation.

There is a fisherman's shack on the south side of the middle section, and several just west of the junction between the west and middle islands. This is the complete extent of the development on the island.

Landmarks

Owing to the narrowness of the east sections, and the comparative flatness to the west island, the whole island appears quite different at different angles and distances; but the peak (930 ft) is conspicuous for a long distance, and shows sharp from all angles.

Control

3 triangulation signals, Summit, Anacapa, and Light were available. A traverse was first run along the top of the middle section, and all possible cuts to offshore rocks etc. secured, and from these at sea level short traverses were run in each direction until they met at the ends of the various sections, so that no long or uncontrolled traverses were necessary.

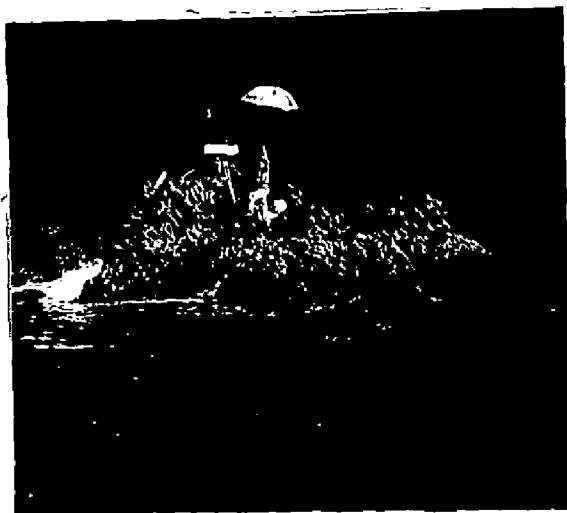
All offshore pinnacles shown and all rocks shown as going bare at some stage of the tide were accurately located by rod readings.

Geographic Names

There has been no change of names.



Arch Rock and pinnacle rock (signal "Out"), extreme east end of Anacapa Island; looking north northeast; distance about 700 feet. Whistler's elevation sketch of these rocks as shown on chart 5126 is looking north by west.



Topo. set-up, north shore Anacapa Island.

Anacapa Island

(3)

Changes in shoreline

The rocky shoreline has remained unchanged. The sole change is that the boat passage shown between the west and middle sections has completely filled with sand and the reference to same should be eliminated from the chart. The old survey shows the elevation of Summit Peak as 980 feet; its correct elevation is 930 feet. *Kelp T-555 (1955) shows elev. of 930 ft. but is incorrect and can readily be construed as 980 ft. which may appear on charts 5202 and 5126 prior to receipt of chart letter #615 (1934).*

Thin kelp is found along the shores with thicker patches as shown on the topographic sheet.

Special Notes

A small section of the east end of Santa Cruz Island was run in connection with the location of hydrographic signals, but detailed development and description appears on the topographic sheet for that island.

The entire shoreline of the island was obtained from sea level set ups either at the base of the cliffs or from offshore rocks, so that a more accurate delineation of the shoreline was possible than on previous work, portions of which appear to have been done from the cliff tops.

APPROVED BY

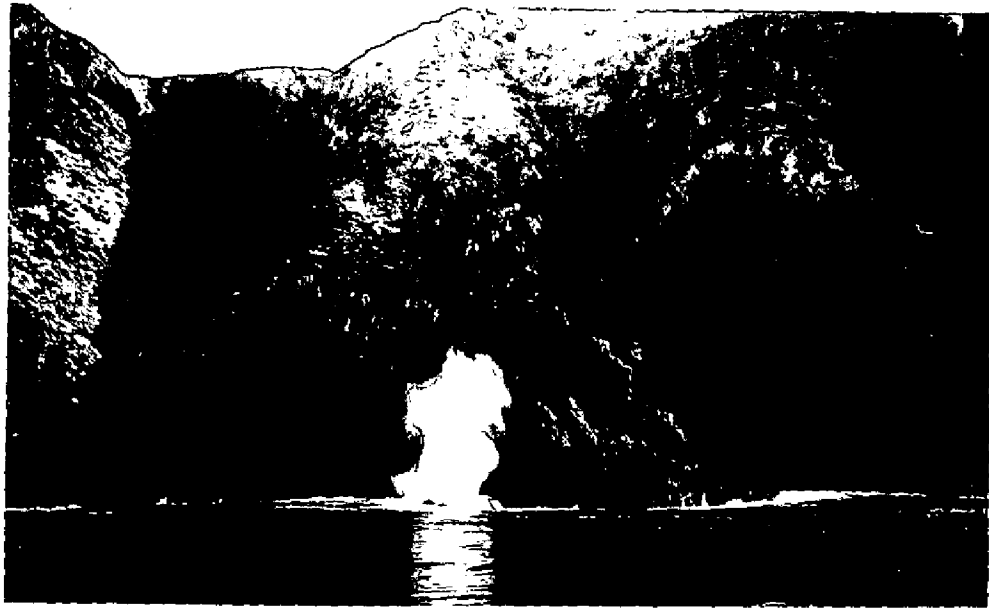
Chas. K. Green

CHAS. K. GREEN

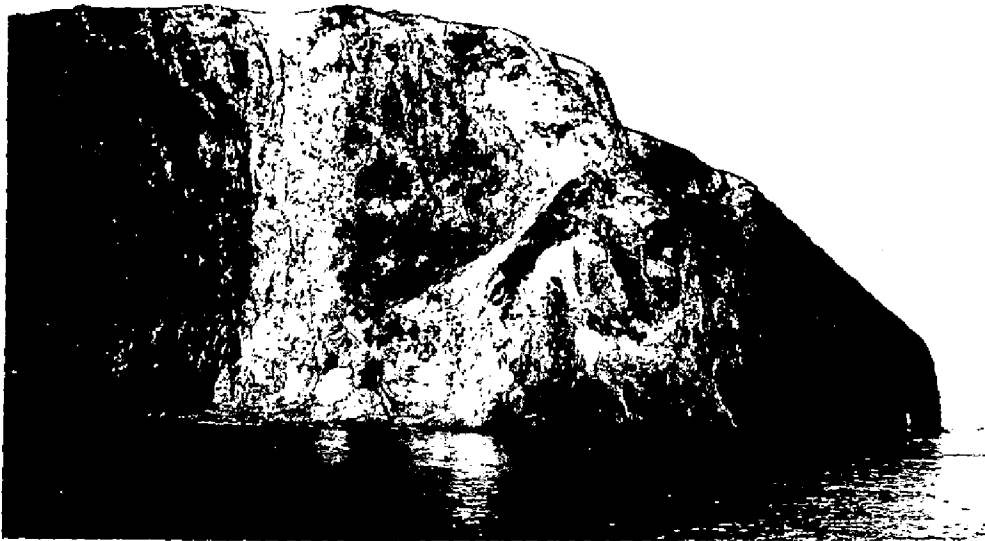
SUBMITTED BY

H. T. Kelsh

HARRY T. KELSH



Small blow-hole, north coast Anacapa Island, near signal "Jak";
looking southeastward.



Cliffs of Anacapa Island. The exact position of this view is
not known.

PLANE TABLE POSITIONS TO ACCOMPANY SHEET "C"

Object and Description	Latitude	D.M.	Longitude	D.P.	Height	Remarks
* GULL - tripod	34-00	1566	119-26	813	68'	
NEX - ww	34-00	1421	119-26	669		
BEN - ww	34-00	1339	119-26	452		
AN - ww	34-00	1185	119-26	54		
DUS - ww	34-00	1825	119-25	1433		tangent
Rok - ww	34-00	1091	119-25	1334		
LED - ww	34-00	947	119-25	1093		
TRA - ww	34-00	1723	119-25	858		
* LAM - pin rk	34-00	1742	119-25	409	8'	rock
ACE - ww	34-00	1690	119-25	314	20'	pin rock
JAK - ww	34-00	1657	119-26	156		
SCAR-	34-00	902	119-25	864		scar on cliff
LIT - ww	34-00	864	119-25	784		
COV - ww	34-00	843	119-25	624		
COB - ww	34-00	713	119-25	484		
PINE- ww	34-00	551	119-25	405		
BLO - ww	34-00	622	119-25	149		
DAN - ww	34-00	675	119-24	1291		
WIN - ww	34-00	1263	119-24	1360		
RIG - ww	34-00	972	119-24	1013		
MIK - ww	34-00	746	119-24	915		
ABE - ww	34-00	763	119-24	697		
NIP - ww	34-00	585	119-24	557		
BOT - ww	34-00	752	119-24	265		

*Described on form 524

Object and Description	Latitude	D.M.	Longitude	D.P.	Height	Remarks
ZIP - ww	34-00	773	119-24	80		
BUL - pin rk	34-00	492	119-23	1504		small rock
AXE - ww	34-00	734	119-23	1420		tangent of natural arch
UNK - ww	34-00	657	119-23	1138		
KUM - ww	34-00	339	119-23	1150		
GO - ww	34-00	318	119-23	938		
*GIN - tripod	34-00	751	119-23	847	32'	on highest part of small island
WEB - ww	34-00	276	119-23	721		on tangent
RUB - ww	34-00	365	119-23	499		
BAS - ww	34-00	895	119-23	253	60'	small island
HAL - ww	34-00	803	119-23	122		
BIK - ww	34-00	866	119-22	1503		
MAC - ww	34-00	946	119-22	1285		
SEL - ww	34-00	391	119-23	1393		
TEN - ww	34-00	1249	119-22	1440	36'	small island
MUD - ww	34-00	1258	119-22	1243		
FIN - pin rk	34-00	1255	119-22	1024	15'	
CUB - pin rk	34-00	1293	119-22	995		
OFF - pin rk	34-00	1313	119-22	755	10'	
NIT - ww	34-00	1410	119-22	880		
GAR - ww	34-00	1541	119-22	633		
ZED - ww	34-00	1777	119-22	417		on tangent
*PIN - pin rk	34-00	1288	119-22	405	67'	

*Described on form 524

Object and Description	Latitude	D.M.	Longitude	D.P.	Height	Remarks
POP - rock	34-00	1704	119-22	159		
TAK - ww	34-00	1438	119-22	61		
LAG - ww	34-01	25	119-21	1417		
*INK - pin rk	34-00	1460	119-21	1253	97'	outer face
GOT - ww	34-01	81	119-21	1216		
EGG - ww	34-00	1819	119-21	916		
WIS - ww	34-00	1615	119-21	916		
BON - ww	34-01	00	119-21	771		
SEE - ww	34-00	1684	119-21	633		
ARC - ww	34-01	29	119-21	543	80'	NW corner Arch rock
PEL - ww	34-00	1154	119-26	341		
BUK - ww	34-00	1800	119-25	1525		
GAF - ww	34-00	1544	119-26	947		western end of island
WET - ww	34-00	1605	119-26	453		
KID - ww	34-00	675	119-25	13		
*NUK - pin rk	34-00	854	119-24	883	8'	middle of rock
HUT - small hut	34-00	774	119-24	875		
*TAB - high nub	34-00	702	119-24	678	205'	
BAT - " "	34-00	675	119-24	608	80'	
PIT - ww	34-00	534	119-24	142		
YAP - rock	34-00	638	119-23	988	30'	top of rock
EX - ww	34-00	626	119-23	629		
URN - ww	34-00	767	119-23	495		
ED - ww	34-00	493	119-23	277		

*Described on form 524

Object and Description	Latitude	P.M.	Longitude	D.P.	Height	Remarks
TIDE - small shack	34-00	733	119-23	201		SE corner
BUF - ww	34-00	1396	119-22	640		
RED - rock	34-00	1692	119-22	293	40'	pin rock
DER - derrick	34-00	52	119-21	1034		derrick at L.H. landing
*OUT - pin rock	34-00	1797	119-21	454	49'	Pinnacle rock extreme eastern end of island

*Described on form 524

MAY 17 1934

Acc. No. _____

PARTY # 10. 4841

Santa Barbara, Calif.
May 10, 1934.

Topographic sheet "C", submitted herewith, has been inspected and approved by me, together with data listed below.

List of data forwarded with Topographic Sheet "C"

Title sheet
Descriptive Report
Plane table positions
8 Description of recoverable Topographic station
(Form 524)
2 prints, Anacapa Lighthouse grounds

This sheet was done on a 1:20,000 scale because of the necessity of control signals on Santa Cruz Island.

All kelp is shown on this sheet and is not shown on the smooth hydrographic sheet because of congested soundings. The sounding volume kelp notes were used as well as the topographers location.

Chas. K. Green

Chas. K. Green,
Chief of Party #10.

REVIEW OF TOPOGRAPHIC SURVEY No. 4841(1933)

Title (Par. 56) ANACAPA ISLAND, Santa Barbara Channel, Cal.

Chief of Party C.K.Green Surveyed by H.T.Kelsh Inked by H.T.k.

Ship-Shore Party Instructions dated Oct. 31, 1932
(C.K.Green) Surveyed in 1933

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.) *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 back of this page)*
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.

Par. #9 (Continued)

In general there is good agreement between the rock detail on
T-555(1855) ^{and the present survey.} The few discrepancies which exist have been per-
sonally inspected in the office by the Chief of Party and it is concluded
that the discrepancies in question are due mainly to the method
of surveying (T-4841(1933) being run along the shore whereas
indications are that T-555(1855) was controlled from tops of cliffs)
and to the breaking down of cliffs since the 1855 survey was made.
Within the area covered, T-4841(1933) supersedes all rock detail shown
on T-555(1855).

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.)

16. ✓ A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.) *For landmarks and deletions see chart letter #615(1934)*

17. The magnetic meridian was shown and declination was checked. (Par. 17, 52.) *no declination values were noted.* *Δ Anacapa occupied for Mag. Dec. CKG*

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. *on the next will be considered when that work is received from the field.*

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 *H.F. Ketch. C.K. Green.*

24. Remarks: *within the area covered, T-484(1933) supersedes T-555(1855) for charting purposes.*

Reviewed in office by *Harold W. Murray* Aug. 16, 1934.

Examined and approved:

C. K. Green
Chief, Section of Field Records

L. O. Solbert
Chief, Section of Field Work

J. S. Jordan
Chief, Division of Charts

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

approved chart 5114 - Nov. 1935 - G. Jackson
" " 5202 - Mar 1936 - R. H. Z.