# 8786

Calais, Me

Diag. Cht. No. 801

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

# DESCRIPTIVE REPORT

Type of Survey TOPOGRAPHIC

Field No. PH-11 (1.6) Office No. T-8786

LOCALITY

State MAINE

General locality WASHINGTON COUNTY

Locality ST. CROTY RIVER

194 9

CHIEF OF PARTY
R. A. Gilmore, Chief of Field Party
T. B. Reed, Photo. Office

LIBRARY & ARCHIVES

DATE August 23, 1951

B-1870-1 /IV



#### DATA RECORD

<sub>T</sub> - 8786

Project No. (II):

Quadrangle Name (IV):

PH-11(46)

CALAIS

Field Office (II):

Calais, Me.

Photogrammetric Office (III):

Baltimore, Md. Instructions dated (II) (III):

9 May, 18 Sept. 1946

Chief of Party:

Ross A. Gilmore

Officer-in-Charge:

Thos. B. Reed

Copy filed in Division of Photogrammetry (IV)

Office Files

Air Photographic (Multiplex)

Method of Compilation (III):

Manuscript Scale (III): 1:8500

Stereoscopic Plotting Instrument Scale (III); 1:8500

Scale Factor (III): 1,000

Date received in Washington Office (IV): 15-49 Date reported to Nautical Chart Branch (IV): 7-26-49

Applied to Chart No.

Date:

Date registered (IV): 2 - C - 51

Publication Scale (IV): / 24,000

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III):

Mean sea level except as follows:

Elevations shown as (25) refer to mean high water Elevations shown as  $(\underline{\delta})$  refer to sounding datum i.e., mean low water or mean lower low water

Reference Station (III): MAGUERREWCC, 1887

Lat.: 45 09 19.110

Long.: 67° 16' 49.250°

State: Maine

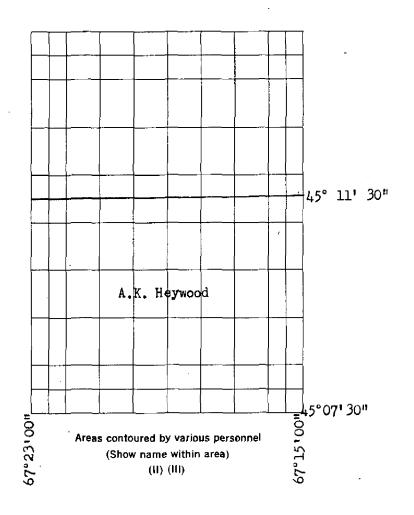
Adjusted

Plane Coordinates (IV):

X=

Roman numerals indicate whether the item Is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.



#### DATA RECORD

Field Inspection by (II): John R. Smith Herschel G. Murphy Irving I. Saperstein

Oct. 1946 Date:

Planetable contouring by (II):

Date:

Henry P. Eichert William H. Shearouse

Completion Surveys by (II): John R. Smith James A. Clear

Date: Oct. 1949

John H. Gwaltney

Mean High Water Location (III) (State date and method of location): October 1946

Projection and Grids ruled by (IV):  $H \cdot R_{\bullet}$ 

Date: Dec 1947

Projection and Grids checked by (IV):  $H \cdot R$ .

Dec 1947 Date:

A. K. Heywood Control plotted by (III):

May 1948 Date:

Control checked by (III): A. C. Rauck, Jr.

July 1948 Date:

Stereoscopic Control extension by (III): A. K. Heywood Date: Aug. 1948

May 1948

August 1948 Date:

Stereoscopic Instrument compilation (III):

A.K.Heywood Contours

A.K.Heywood

August 1948 Date:

Manuscript delineated by (III):

M.L.Rosenberg

**Planimetry** 

Dec. 1948 Date:

Photogrammetric Office Review by (III): A.K. Heywood

June 1949 Date:

Elevations on Manuscript checked by (II) (III):

C. Theorer

Date: July 1950

#### U.S.C.& G.S. Type "C" 6" Metrogon Lens Camera (kind or source) (III):

		PHOTOGRAPHS (III)		
Number	<sup>*</sup> Date	Time EST	Scale	Stage of Tide
46-C-118-124 46-C-132-135	5-23-46	1030	1:20,000	2' MLW
46-C-127-130 46-C-394-397	5-23-46 5-29-46	1045 1405	n n	2' MLW
46-C-113-117 46-C-403-435	5-23-46 6-29-46	1030 1455	n 1:56,000	2' MLW 5' MLW

Tide (III)

Reference Station: Eastport

Subordinate Station:

Calais, St. Croix River

Subordinate Station:

Washington Office Review by (IV):

July 7, 1950 Date:

|Ratio of | Mean | Spring | Range | Range

 $20.0 \ 22.8$ 

Ranges

Date:

Date:

Date:

1.1

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 15

Shoreline (More than 200 meters to opposite shore) (III): 3 Shoreline (Less than 200 meters to opposite shore) (III): None

Control Leveling - Miles (II): 28

Number of BMs searched for (II):

Number of Triangulation Stations searched for (II):

Recovered:

Recovered: 22 Identified: Identified: 22

Number of Recoverable Photo Stations established (III):

Number of Temporary Photo Hydro Stations established (III):

none

Remarks:

SCALE FACTOR 1.17647	TUM FACTOR DISTANCE TION LINE FROM GRID OR PROJECTION LIN IN METERS IN METERS FORWARD (BACK)	2.3 694.0 1485.1	4.8 1265.6 276.3	.5 845.5 1333.6	.7 1311.5 230;3	9.7 473.5 1705.6	8.8 2.6 1539.7	.7 1086.5 1092.6	4.0 53.9 1487.1	.4 1232.7 946.4	.1 1022.1 520.1	3 2104.6 74.5	.6 739.3 801.9	.6 2038.4 140.7	953.47	1058.7	.5 5 931.3 610.0	4.8 738.1 1441.0	1180.6 153.4 1388.9	.4 1113.9 1065.2	.3 791.5 749.8	4.7 902.9 1276.2	1086.6 263.9 1278.3
page 1 SCALE	N.A. 1927 - DA DISTANCE PROM GRID OF PROJECT IN METERS	589.9 1262.3	1075.8 234.8	718.7 1133.5	1114.8 195.7	402.5 1449.7	2.2 1308.8	923.5 928.7	45.8 1264.0	1047.8 804.4	868.8 442.1	1788.9 63.3	628.4 681.6	1732.6 119.6	810.4 500.3	899.9 952.3	791.6 518.5	627.4 1224.8	130.4 1180	4.506 8.946	672.8 637.3	767.5 1084.7	224.3 108
p 1:8500	DATUM			-23.7	- 2.9	-23.7	- 2:9	-23.7	€ 2.9	-23.7	- 2.9	-23.7	- 2.9	-23.7	2.2.9	-23.7	- 2.9	-23.7	-2.9	-23.7	- 2.9	-23.7	- 2.9
SCALE OF MAP_118	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)									Near ORM 212	Not Plotted											}	
	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	45 09 19.110	67 16 49.250	45 09 23.280	67 17 51.039	45 08 13.04	67 19 00.10	45. 11, 29.916	67 17 02.096	45 08 33.943	67 18 39.765	45 10 57.95	17	45 08 56.125	67 17 37.099	45 40 29.154	67 17 36.25	45 08 20.324	67 22 05.967	45 10 30.67	67 17 30.81	45 08 24.862	67 22 10.267
PROJEC	DATUM	N.A.			N.A.	N.A.		N.A.		N.A.		N.A.		N A		=		=		-			=
	SOURCE OF INFORMATION (INDEX)	G.P.	List	Spec.	94	I.B.C.		Spec.	No.46	=		I BC		Spec.	No.46		=	-		5	26	Spec.	97
MAP T. 8786	STATION	WAGUERREMOG	1887	•	PINEO, 1909(18c) 46		PHENNEY, 190% (B)	INTERNATIONAL	BRIDGE, 1908(18c)	RUSSELL, 1909	(180)	REF. MON. 222	1922 (IBC)	OCOL MOTHWAIT	(180)	MILLTOWN COTTON	MILL CHIM. 1887	BAILEY, 1909	(180)	WON. 219	(180)	(18c)	

M-2388-12

1278.3 1700.8 607.2

767.5 224.3 9.907

36.357

16 7

29

=

CALAIS CONG. CH. SPIRE 1909 (1BC)

DATE Winter 1947

COMPUTED BY. H.P. Eichert

13.171

4

478.3 263.9

1445.6

-23.7 - 2.9

933.8

793.7 516.2

DATE Winter 1947

снескер ву. Е. Г. Вацшап

		1001	ווססבסו ווסייידידיינילאתלייי						
STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE O	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTA FROM GRID OR PROJE IN METERS FORWARD	NCE CTION L
DOTEN 1909/20	1 P	M A		41.87			.5		200
· · · · · · · · · · · · · · · · · · ·	20 1	n.n.	45 09	10.61	\$ + . W	-2.9	296.7 1555.5	349.1 1890	1830.0
GAUGE, 1910(18c)	1 BC	N.A.		15.68	1.45	- 2.9		402.9 113	1139.0
1000	Spec.		45 08	28.190		-23.7		1023.8 115	1155.3
	46	N.A.	67 18	09.869		- 2.9	215.6 1095.3	253.6 128	1288.6
YOUNG 1909	=	=	45 10	58.137		-23.7	1794.7 57.5	2111.4 6	67.7
(18c)			67 15	37.468		- 2.9	818.0 492.0	962.4 578.8	8.8
STONYFIELD 1909	=	-	45 08	32.087		-23.7	990.5 861.7	1165.3 101	1013.8
(18c)			67 17	31.155			680.7 630.2	800.8 741.4	4.
1000	=	=	45 10	54.854		-23.7	1693.3 158.9	1992.1 187.0	0.
SLUUGH, 1707 (IBC)			67 17	24.876		- 2.9	543.1 766.9	638.9 902.3	6:3
LOVERING 1910	I BC	=	45 09	04.84	West of Limits	-23.7	149.4 1702.8	175.8 200	2003.3
(1.85)			67 23	00.42		- 2.9	9.2 1301.5		1531.2
FROST FIELD	T BC	=	45 07	40.06		-23.7	1236.7 615.5	0	1.2
1910 (18c)			67 20	12.27		- 2.9	268.1 1043.1	315.4 122	1227.2
RINGBOLT 1910	I BC	=	45 07	47.93		-23.7	1479.6 372.6	1740.7 438.4	3.4
(180)			67 21	22.00		- 2.9	480.8 830.4	565.6 977.0	0.7
LAWLER, 1910	=	-	45 07	36.70		-23.7		1332.8 846.3	5.3
(180)			67 20	58.40		- 2.9	1276.3 35.0	1501.5 41.2	1.2
*PRATT, 1909	Pub. No.		45 07	48.416		23.7	1494.6 357.6	1758.4 420.7	7.0
(1Bc)		=	67 19	24.766		- 2.9	541.2 770.0	636.7 905	6.506
ROCK, 1909			75 07	26,226	South of Linits	-23.7	809.6 1042.6	952.5 122	1226.6
(18c)	=	•	67 19	32.944		- 2.9	720.0 591.3	847.1 695	9.569
COMPUTED BY: H.P. Eichert	chert	10	DATE Wint	L GL	CHECKED BY. E.L.E	E.L.Bauman		Winter 1947 M	M - 2388 - 12

						Page 3			
0								0	
MAP T- 8786		PROJEC	PROJECT NO. PH-11(46)	SCALE OF MAP 1:8500	1500	SCA	SCALE FACTOR 1.17647	N. 1.17	275
STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR v-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM	N.A. 1927 - DATUM. DISTANCE FROM GRID OR PROJECTION L IN METERS FORWARD (BACK	N.A. 1927 - DATUM. DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR FROM GRID OR I IN M FORWARD	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
*STUBBS, 1909	Spec.	N.A.	45 10 07.922		-23.7	244.6	1607.6	287.8	1891.3
(180)	94		67 17 49.242		- 2.9	1075.3	235.0	1265.1	276.4
REF. MON. No. 215	4		45 10 11.47		-23.7	354.1	1498.1	416.6	1762.5
1912 (18c)	I B.C.	N.A.	67 17 46.59		- 2.9	1017.4	292.8	1196.9	344.5
			45 07 41.24		-23.7	1273.1	579.1	1497.8	681.3
MALLOY, 1910 (IBC)	=	=	67 21 08.77		- 2.9	191.6	1119.6	225.4	1317.2
THE THE PART AND ATT			45 10 15.93		-23.7	8.164	1360.4	578.6	1600.5
FINIAL, 1909(IRc)	<b>1</b>	п	67 17 24.51		- 2.9	535.2	775.0	629.6	911.8
MILLTOWN GRAMMAR			45 10 08,885		-23.7	274.3	1577.9	322.7	1856.4
SCHOOL CUPOLA, 1887	Pub.	п	67 17 13.833		- 2.9	302,1	1008.2	355.4	1186.1
INTERVAL 1910	I BC	=	45 07 27.13	South of	-23.7	837.5	1014.7	985.3	1193.8
(1Bc)	1		67 20 32.24	Limits	- 2.9	704.6	606.7	828.9	713.8
FOWLER 1909	Pub.		45 10 41.603		-23.7	1284.3	567.9	1510.9	668.2
(180)	No.46	=	67 17 31.338		- 2.9	684.3	625.8	805.1	736.2
HITCHINGS, 1909	=	=	45 09 31.390		-23.7	0.696	883.2	1140.0	1039.1
(180)			67 16 43.250		- 2.9	7.449	365.8	1111.4	430.4
CANAL, 1909	I BC	=	45 08 31.79		-23.7	981.4	870.8	1154.6	1024.5
(180)	7		67 19 05.27		- 2.9	115.1	1195.8	135.4	1406.8
GAMPBELL, 1909	Spec.		45 09 19.244		-23.7	594.1	1258.1	6.869	1480.2
(18c)	No.46	=	67 17 35.952	*	- 2.9	785.3	525.3	923.9	618.0
CHAIN ROCK, 1909	I BC	=	45 08 24.52		-23.7	756.9	1095.3	890.5	1288.6
(18c)			67 19 09.18		- 2.9	200.6	1110.4	236.0	1306.4
HAYWOOD, 1910	I BC	=	45 07 31.40	•	-23.7	6.69.3	882.9	1140.4	1038.7
			67 20 23.62	A RN 204	- 2.9	516.2	795.1	607.3	935.4
COMPUTED BY. H.P.	H.P.Eichert	DA	DATE Winter 1947	CHECKED BY.	E.L.Bauman		DATE	Winter 1947	м-2388-12

STATION	MAIL	MAP T- 8786 :		PROJEC	PROJECT NO. PH-11(46)	SCALE OF MAP 1:8500	8500	SCALE FACTOR	PACTO	R 1,17647	7
MON.	MON. 215   M.A.   45 08 50.77     MA.   45 08 50.77     MON. 215   MON. 215		SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS	DATUM	N.A. 1927 - DA DISTANCE FROM GRID OR PROJECT FORMAND		FACTOR D FROM GRID OR PI IN MEI	STANCE ROJECTION LI
1912   1912   1914   1915	1912     1816     1816     1816     1816	MON.		N,A.	80		-23.7	28	6.48		335.2
Math.	WON. 21   Light   Li	1912	I BC	mits	22		-2.9		18.2		292.0
NON. 212   1 EC	NON. 204   1 BC		ed twi		80		-23.7		5.2	737.6 1	441.5
NON. 204   I EC	MON. 204   1 EC	.	I BC		22		- 2.9		20.3	153.81	388.6
C   E   E	CIRC   Reconstriction   CIRC   Reconstriction   CIRC   Reconstriction   CIRC   Reconstriction   CIRC   Reconstriction   CIRC		I BC	=	07		-23.7		1.8	1000000	2.640
NON. 206   I BC   II	NON. 226   1 BC	(180)			20		THE PARTY OF THE P		13.6		933.6
C   C   C   C   C   C   C   C   C   C	C   E   C   E   C   E   C   E   C   E   E	MON.	TRC	=	07 49		-23.7				381.0
MON. 212   1909   1 BC	MON. 215   1909   1 BC		27.4		19		2.		45.6		873.7
NON. 225   EG     45 11 14.95   -23.7 461.5 1390.7 542.9 163   688.0 977   68.0 1390.7 542.9 163   68.0 1390.7 542.9 163   68.0 1390.7 542.9 163   68.0 1390.7 542.9 163   68.0 1390.7 542.9 163   68.0 1390.7 542.9 163   68.0 1390.7 542.9 163   68.0 1390.7 542.9 163   68.0 1390.7 542.9 163   68.0 1390.7 542.9 163   68.0 1390.7 542.9 163   68.0 1392   69.0 1392   6	NON. 225   BC		and the second	=	11		-23.7		31.5		801.8
MON. 225   1 BC	MON. 225   1 BC	(1Bc)			17		- 2.9		26.3	568.9	972.2
Color   Colo	CIBC) 1909   1	REF. MON. 225	I AC	=	11		-23.7		7.06		636.2
N.A.   1504   1 EC	N.A.   15   11   29.90     Near Aithernetical   -23.7   923.0   929.2   1085.9	(180) 1909	29		17 21	KR	- 2.9		37,/2	556.1	985.0
N.A.   67 17 02.12   Stude- Not plotted   -2.9   46.3   1263.5   54.5   148   1760.8   91.4   2071.5   10   1927   67 27   27   27   27   27   27   27	Color   Colo	REF. WON. 227 1924	I BC	=	11 29.				29.2		093.2
N.A.   45 08   1760.8 91.4   2071.5 10     1927	N.A.   45 08	(180)			17 02.1	- Not			53.5	2	4.86.4
LYZ/ 67 27   Reidentified   804.3 506.4 946.2 59    REF. MON. 215   1	NUTERVAL 1910   1927   67 20   Reidentified   869.6 982.6 1023.1			N.A.	50000				1.4		107.6
INTERVAL 1910	NUTERVAL 1910   1			1927					7.9	946.2	595.8
REF. MON. 215	REF. MON. 215	SS INTERVAL 1910		=		Reidentified			32.6		156.0
HEF. MON. 215	REF. MON. 215			*		· Position			56.8		655.1
1912	1912	REF. MON.			45 10				28.2		797.9
EAILEY 1909 "	EAILEY 1909 "	1912		=					28.8		386.8
EF. MON. 212  I BC N.A. 45 08 33.94  (18c) 1918  -23.7 1047.7 804.5 1236.6 94  (18c) 1918  DATE Winter 1947  CHECKED BY. E.L.Bauman  163.0 1148.0 191.8 1350  1022.2 5  CHECKED BY. E.L.Bauman  DATE Winter 1947	EF. MON. 212  I BC N.A. 45 08 33.94  -23.7 1047.7 804.5 1236.6  (18c) 1918  T=3048006 METER  Winter 1947  CHECKED BY: E.L.Bauman  163.0 1148.0 191.8  1022.2  High Probability					Reidentified			31.5		566.5
N.A. 45 08 33.94 -23.7 1047.7 804.5 1236.6 94 67 18 39.77 -2.9 868.9 442.0 1022.2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	N.A. 45 08 33.94 -23.7 1047.7 804.5 67 18 39.77 CHECKED BY. E.L.Bauman DATE					Position			48.0		350.9
67 18 39.77   -2.9 868.9 442.0   1022.2 5   DATE Winter 1947   CHECKED BY. E.L.Bauman   DATE Winter 1947   DATE   DATE   Winter 1947   DATE   DATE   Winter 1947   DATE   DATE   DATE   Winter 1947   DATE   DATE	67 18 39.77   -2.9 868.9 442.00   DATE   Winter 1947   CHECKED BY. E.L.Bauman   DATE   DATE	REF. MON. 212		N.A.	08 3				14.5	1236.6	946.5
DATE Winter 1947 E.L.Bauman DATE Winter 1947	DATE Winter 1947 CHECKED BY. E.L.Bauman DATE	(80)			18		- 2.9		200	1022.2	520.0
		COMPUTED BY. H.P.	Eichert	A. D. A.	Winter		Bauman	DATE	Win	iter 1947	M - 2388-1

Page 5

MAP T- 8786		PROJEC	PROJECT NO.PH-11	SCALE OF MAP.	1:8500	SCA	SCALE ACTOR 1.17647	R 1.176	147
STATION	SOURCE OF INFORMATION	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	OM GRI	DATUM	N.A. 192" DIST. FROM GRID OR IN M.	"N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS	FACTOR FROM GRID OR I IN MI	FACTOR DISTANCE FROM GRID OR PROJECTION LIN: IN METERS
		N.A.	15.10	FORWARD (BACK)	,	239.0	(BACK)	FORWARD 281.2	(BACK)
c		1927	67 17			1054.3	256.0	1240.3	301.2
5.5. 510BB5.1707 • 5.5.						754.6	1097.6	887.8	1291.3
SECRIP 1909		E				184.4	1126.5	216.9	1325.3
SS REF. MON. 219		=				942:0	910.2	1108/2	1070.9
			67 17			4*629	680.7	240.5	800.8
· SS REF. MON. 222		E	45 10			1785.6	9.99	2100.7	78.4
			67 17			6*919	693.1	725.8	815.4
SOBT OHNTO SS		=	60 37			703.8	11840.4	828.0	1351.1
						1095.1	215.4	1288.4	253.4
. SS MAGUERREWOC			60 54			609.3	1242.9	716.8	1462.3
1887		=	67 16			1038.2	272.4	1221.4	320.5
· SS BAILEY 1909		=	45 08			620.3	1231.9	729.8	1449.3
			67 22	,		115.1	1195.9	1354	1406.9
OLDI TANDERIAL 1910			72 07			826.9	1025.3	972.8	1206.3
						691,1	620.2	813,0	729.7
S.S.DOTEN		И	45 07			1270.9	581.3	1495.2	683.9
1909			67 20			7.866	312.5	1174.9	367.6
· Ref Mon 231,		<i>j</i> 1	45 10 48.137						
(121) (126)		•	67 15 03.403						
· Big Trees,			45 10 48.172	Near ARM 231					
1909 (1BC)		<b>.</b>	67 15 03.400	Not Plotted.	ļ				
Ų,			45 10 48.137	-					
1909 (1BC)		<b>&gt;</b>	67 15 03.407						
1 FT.=.3048006 METER COMPUTED BY. H.P.Eichert	chert	20	DATE Winter 1947	CHECKED BY.	E.L.Bauman		. Winter	er 1947	M - 2388 - 12
		_				<del></del>			

ATION   SOURCE OF   LATITUDE OR y-C   INFORMATION   LONGITUDE OR x-(INDEX)   L.B.C.   N.A.   45   08   1917   (18c)   B.Z.!   c, "   45   08   1918   (18c)   B.Z.!   c, "   45   07   1918				1700	SCALE FACTOR	Я
ERENCE MON. I.B.C. N.A. 45 08 1917 (18c) 67 21  " Near "A 45 08 1918 (18c) Bailey" 67 22 " 45 07	COORDINATE OR	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CE SUBSTION LINE ERS (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
" Near " 45 08 1918 (18c) Bailey" 67 22 " 45 07		1	-23.7	665.3	1186.9	
, 1918 (18e) Bailey" 67 22 " 45 07	6146	1286.7 24.3	- 2.9	1283.8	27.2	
10 47 07	21.06 6	650.1 1202.1	-23.7	626.4	1225.8	
			-23 7	11.57 8	301. 1.	
201, 1918 (18c) " 67 21 (		1	- 2.9	56.3	1254.9	
11 45 07	45.32 13	1399.0 453.2	-23.7	1375.3	476.9	
202, 1918 (18c) " " 67 21 (	03.24	70.8 1240.4	- 2.9	6.79	1243.3	
" " 45 07	10		-23.7	1015.4	836.8	
203, 1918 (18c) 67 20 2	26.59 58	581.1 730.2	- 2.9	578.2	733.1	
11 17 17 17 17 17 17 17 17 17 17 17 17 1	55.32 170		-23.7	1684.0	168.2	
67 19	28.82 6.	629.8 681.3	- 2.9	6.909	684.2	
" 45 08	15.42 4	476.0 1376.2	-23.7	452.3	1399.9	
67 19		207.6 1103.3	- 2.9	204.7	1106.2	
" 45 08		390.5 1461.7	-23.7	366.8	1485.4	
1918 (1 <b>Bc</b> ) 67 19	03.57		- 2.9	75.1	1235.9	
45 08	26.40 8:	815.0 1037.2	-23.7	791.3	1060.9	
(18c) 67 19	13.66 2	298.4 1012.5	- 2.9	295.5	1015.4	
" " " 010 O10 O10 O10 O10 O10 O10 O10 O10 O10		781.6 1070.6	-23.7	757.9	1094.3	
1,12 (1Bc) 67 19	08.32	181.8 1129.1	- 2.9	178.9	1132.0	
" # 45 08	44.07 13	1360.4 491.8	-23.7	1336.7	515.5	
67 18			- 2.9	690.7	620.1	
# 45 09		1210.1 642.1	-23.7	1186.4	665.8	
18		308.0 1002.5	- 2.9	305.1	1005.4	
* not plotted computed BY. A.C.Rauck, Jr. DATE December 1	1949		H.P. Eichert	70	те Десе	м-2388-12

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NA. 1927 - DATUM   LATITUDE OR -COORDINATE   DISTANCE FROM GENETICON   NA. 1927 - DATUM   LATITUDE OR -COORDINATE   DISTANCE FROM GENETICON   NA. 1927 - DATUM   LONGITUDE OR -COORDINATE   CORRESPONDED COORDINATE   CORRESPONDED COORDINATE   CORRESPONDED COORDINATE   CONTINUE OR -COORDINATE   CONTINUE OR -COORDINATE   CORRESPONDED COORDINATE   CONTINUE OR -COORDINATE   CONTINUE OR -COORDINATE   CORRESPONDED COORDINATE   CORRESPONDED COORDINATE   CORRESPONDED COORDINATE   CORRESPONDED COORDINATE	MAP T- 9/89		PROJECT NO. FII-11(48)					t	**************************************	5		
		SOURCE OF INFORMATION (INDEX)	DATUM	LATITU	IDE OR y-C	COORDINATE	DISTANCE FROOR PROJECTIO	OM GRID IN FEET. N LINE IN METERS (BACK)	DATUM	N.A. 192 DIS FROM GRID OR IN N	7 - DATUM ANCE PROJECTION LINE IETERS (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
1909(RC)	MC	I.B.C.	N.A.	45	90 at	38.75	1196.2	656.0	-23.7	1172.5	679.7	
			=	45	101	15.73	485.6	1366.6	-23.7	461.9	1390.3	
				29	17	47.17	1030.0	280.2	- 2.9	1027.1	283.1	
1999(RE)				45	10	16.39	206.0	1346.2	-23.7	482.3	1369.9	
			,	. 19	17	38.04	830.7	479.5	-2.9	827.8	482.4	
1922( RC			=	45	10	17.29	533.7	1318.5	-23.7	510.0	1342.2	
				67	17	33.90	740.3	569.9	- 2.9	737.4	572.8	
1922( RC		:		45	10	34.58	1067.5	784.7	-23.7	1043.8	808.4	
			9	29	17	39.99	873.2	436.9	- 2.9	870.3	439.8	
1922(IBC)		=		45	10	40.29	1243.8	608.4	-23.7	1220.1	632.1	
1922(18c)	any .		No.	29	17	41.96	916.2	393.9	- 2.9	913.3	396.8	
1922 (   8	=	,		45	11	05.27	162.7	1689.5	-23.7	139.0	1713.2	
		=	***	67	17	34.47	752.6	557.4	- 2.9	749.7	560.3	
(1Bc)		=		45	п	24.32	750.8	1101.4	-23.7	727.1	1125.1	
				49	17	15.28	333.6	976.2	-2.9	330.7	979.1	
1921(**Ec. "				45	7	25.87	798.6	1053.6	-23.7	774.9	1077.3	
		=	=	67	15	53.95	1177.7	132.1	- 2.9	1174.8	135.0	
1921(NC) LOST 67 16 01.99 43.4 1266.5 - 2.9 40.5 1269.4 Outside of Spec. Br. 16 01.99 311.8 1540.4 -23.7 288.1 1564.1 Outside of No.46 Pub. No.46 67 22 09.155 200.0 1110.7 - 2.9 197.1 1113.6 No.4 pi No.46 67 22 209.155 505.2 1347.0 -23.7 481.5 1370.7 Potential outside of Spec. Spec		=-	-	4.5	11	11.76	363.0	1489.2	-23.7	339.3	1512.9	
1908 Pub. P.L. 1976	1921(1BC)	405	_	67	16	01.99	43.4	1266.5		40.5	1269.4	
1887 " " " 67 22 09.155 200.0 1110.7 - 2.9 197.1 1113.6 " 50.4 pl 1887 " " 67 21 25.766 562.8 747.8 - 2.9 559.9 750.7 200.7 200.0 1110.8					60	10.099	311.8	1540.4	-23.7	288.1	1564.1	0
1887 " " 45 09 16.365 505.2 1347.0 -23.7 481.5 1370.7 67 21 25.766 562.8 747.8 - 2.9 559.9 750.7			P. L. 1946		22	09.155	200.0	1110.7	- 2.9	197.1	1113.6	Not Plotted
100/ 100/ 100/ 100/ 100/ 100/ 100/ 100/		=		45		6.365	505.2	1347.0	-23.7	481.5	1370.7	Det or de de de
				67		25.766	562.8	747.8		559.9	750.7	Not Plated
A.C.Rauck, Jr. DATE Dec.	ETER	C.Rauck,		TE Dec	1949		CHE		.Eichert			M-2388-12

MAP T- 8786.		PROJECT NO. Ph-11(	JN IN	+ ++ ·· +		)	O LINE WARREN	)	)	SOUTH TOTAL	
STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATIT	LATITUDE OR y-( LONGITUDE OR x-	LATITUDE OR y-COORDINATE ONGITUDE OR x-COORDINATE	DISTANCE FR OR PROJECTIO FORWARD	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM		N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
MOHANNAS RIDGE	SPEC.	N.A.	45	80	53.39	1648.2	204.0	-23.7	1624.5		-
1909(# 8 & C B S)			19	21	51.87	1133.2	177.5	- 2.9	1130.3	180.4	(imits - Not Plotted
MIDRIP, 1909	=		45	80	20.364	628.7	1223.5	-23.7	605.0	1247.2	
(U.S. & C.B.S.)	Lost		29	22	01.004	21.9	1289.1	- 2.9	19.0	1292.0	
9061 HIIMS			45	90	14.606	450.9	1401.3	-23.7	427.2	1425.0	
(U.S.&C.B.S.)	603	+=	19	22	17.374	379.6	9314	- 2.9	376.7	934.3	
BARTON 2, 1922		,	45	10	36.44	1124.9	727.3	-23.7	1101.2	751.0	
(180)	IBC	=	29	17	14.67	975.4	334.7	- 2.9	972.5	337.6	
ENGLISH, 1909	SEC.	Prob.	45	90	04.210	130.0	1722.2	-23.7	106.3	1745.9	
(4.5.8 C.B.S. /1Bc)	NO.46	1887 1	67	19	24,381	532.7	778.4	-2.9	529.8	781.3	
POPPLEMILL, 1909		· 1	45	90	02.509	77.4	1774.8	-23.7	53.7	1798.4	
(4.8. & C.B.S. (3c)	1005	" 1	29	19	678.90	149.7	1161.4	- 2.9	146.8	1164.3	
BARING SCHOOL	Last		45	80	04.479	138.3	1713.9	-23.7	114.6	1737.6	
CUPOLA, 1887	De lete	9.	29	18	58.155	1270.8	40.3	- 2.9	1267.9	43.2	
SAMDUST	I.B.C.		45	90	30.18	931.7	920.5	-23.7	0.806	944.2	
ISLAND, 1909 (1Bc)		=	67	19	11.13	243.2	1067.7	- 2.9	240.3	1070.6	
HAW POINT			45	90	44.249	1366.0	486.2	-23.7	1342.3	6.605	
1909(4.8.8 C.B.S.	No.46	=	29	18	55.679	1216.5	94.3	- 2.9	1213.6	97.2	
PINETREE ON LOWER	-	اوغة و	54	80	48.31	1491.5	360.7	-23.7	1467.8	384.4	
HANSON I., 1909(U.S.& C.B.S.	0	L(MITS	29	22	33.18	724.9	585.9	-2.9	722.0	588.8	
ВІВСН НІІТ, 1909	=		45	80	48.987	1512.2	340.0	-23.7	1488.5	363.7	
(19:8.4 6.8.5())	,		29	18	01.497	32.7	1278.0	- 2.9	29.8	1280.9	
SQUIRREL POINT			45	80	43.006	1327.6	524.6	-23.7	1303.9	548.3	
1909( Was 6.B.6.	(18c)		29	18	22.259	486.3	824.5	- 2.9	483.4	827.4	
COMPUTED BY A.C. Rauck, Jr.	ick, Jr.	DA DA	DATE	Dec. 1949	676	CH	снескер ву. Н.Р.	H.P.Eichert		DATE Dec.1949	м-2388-12
									THE RESERVE THE PARTY OF THE PA		

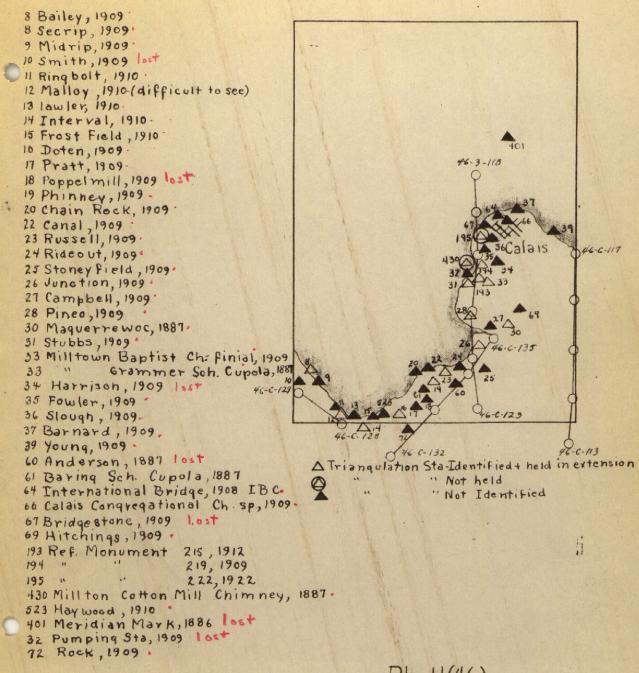
STATION SOUR INFORM	ON	DATUM	LATITUI	LATITUDE OR y-C	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FR OR PROJECTIC FORWARD	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK).	DATUM		N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTA FROM GRID OR PROJE IN METERS FORWARD	NCE CTION LIN
BALCOLM, 1909 SPEC.		A TI	45	60	06.726	207.6	1644.6	-23.7	183.9	1668.3		
(#15. & C.B.S.) BC No.46		N.A.	67	18	01.327	29.0	1281.7	- 2.9	26.1	1284.6		
WHITE, 1909 "		=	4.5	60	196.97	1450.0	402.3	-23.7	1426.3	426.0		
6.B.S. )(184)		,	19	18	14.514	317.0	993.4	- 2.9	314.1	996.3		The state of the s
SS ON LEDGE	ear RM	217						-				
HOLDING MALL Not	+ plotted	Yes.						6.61				
MAIN STREAM IN			45	10	14.49	147.3	1404.9	-23.7	423.6	1428.6		
1909(U.S.& C.B.S.)			29	17	42.54	929.0	381.3	- 2.9	926.1	384.2		
TODDS MOUNTAIN			54	10	11,380	351.3	1500.9	-23.7	327.6	1524.6	Plots in Rose	Reservoir
CHIMNEY, 1887			29	18	44.913	980.8	329.5	- 2.9	6.776	332.4	Probably lost	
HALEY, 1909		:	45	11	25.869	798.6	1053.7	-23.7	774.9	1077.4	Near PH 2	32
18c			29	15	53.949	7.77.1	132.1	-2.9	1174.8	135.0		
*LAWN, 1909 Sane	sb av	∢.	45	11	24.325	751.0	1101.2	-23.7	727.3	1124.9		
(U.S.& C.B.S.) RM	22	. 0	29	17	15.282	333.6	976.2	- 2.9	330.7	979.1		
* INDIAN PT.1909 Seme	me as	4	45	11	15.723	485.4	1366.8	-23.7	461.7	1390.5		
(U.S.& C.B.S.) RM	1 225	= h	29	17	21.781	475.6	834.3	- 2.9	472.7	837.2		
	Sameas		45	11	11.162	344.6	1507.6	-23.7	320.9	1531.3		
* (U.S.& C.B.S.) A" R	RM 22	24	29	17	22.276	486.4	823.5	- 2.9	483.5	826.4		
	7 A R	RH	45	11	25.735	794.5	1057.7	-23.7	770.8	1081.4		
(4-5-8-0-B-S)(1BC) 22C	226 - Not P	plotted	29	17	15.145	330.6	979.2	- 2.9	327.7	982.1		
YOUNGS HOUSE FINIAL			45	11	27.25	841.2	1011.0	-23.7	817.5	1034.7		
ON CUPOLA 1909(IEC) "			29	17	16.00	349.3	960.5	-2.9	346.4	963.4		
( Co C - C - C - C - C - C - C - C - C -	*	1	45	11	25.749	794.9	1057.3	-23.7	771.2	1081.0		
BARNARU, 1909) "-	00	=	67	16	39.936	871.8	438.0	-2.9	868.9	6.044		
COMPUTED BY. A.C. RAUCK, IL.	Jr.	DAT	* not plot	1.3	W	5	снескер ву: Н.	H.P.Eichert		DATE Dec. 1949		M.2388.12

MAP-T- 8786		PROJECT NO	CT NO		Ph-11(46)	SCALE O	OF MAP 1:8500	200	SCA	SCAL FACTOR	JR.
									N.A. 192	N.A. 1927 - DATUM	
STATION	SOURCE OF INFORMATION	DATUM	LONGIT	LATITUDE OR y-C	LATITUDE OR y-COORDINATE ONGITUDE OR x-COORDINATE	DISTANCE FRO	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS	DATUM	PROM GRID OR F	DISTANCE FROM GRID OR PROJECTION LINE IN METERS	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
	(INDEX)					FORWARD	(BACK)		FORWARD	(BACK)	FORWARD (BACK)
	SPEC.	N.A.	45	11	41.428	1279.0	573.2	-23.7	1255.3	596.9	
1909(Hanch Spirke	CN0.46		29	16	34.219	747.0	562.7	- 2.9	744.1	565.6	
ST. STEPHENS ENGLISH	=	=	4.5	11	38.324	1183.2	669.0	-23,7	1159.5	692.7	
сникси твоо			29	16	20.638	450.5	859.3	- 2.9	447.6	862.2	
BOX, 1909	=	=	45	11	12.636	390.1	1462,1	-23.7	366.4	1485.8	
(U.S.& C.B.S.)	405	1	19	16	05.974	110.8	1199.1	- 2.9	107.9	1202.0	
•MILLTOWN WATERWORKS	= -	= 1	45	10	11.136	343.8	1508.4	-23.7	320.1	1532.1	
CHIMNEI 100/	100		19	17	47.574	1038.9	271.4	- 2.9	1036.0	274.3	
PUMPING STATION		+"	45	10	11.275	348.1	1504.1	-23.7	324.4	1527.8	
**************************************	^		67	17	48.797	1065.6	244.7	- 2.9	1062.7	247.6	
HARALDON 1707	=	= 1	4.5	10	22.950	708.5	1143.7	-23.7	8.489	1167.4	
(1 Bc)	405	,	29	17	22.887	8.664	810.4	- 2.9	6.964	813.3	
TODD MOUNTAIN		=	1,5	10	15.751	486.3	1365.9	-23.7	462.6	1389.6	
1908 CLS. & Colored	(1BC)	,	67	18	48.796	1065.6	244.6	- 2.9	1062.7	247.5	
*MILITOWN CONGREGA-	/ <del>=</del>	=	45	10	23.849	736.3	1115.9	-23.7	712.6	1139.6	
	(180)		67	17	072.67	1086.2	224.0	- 2.9	1083.3	226.9	
POINT "A" ON WASTE	NeerA	RM 218	45	10	20.68	638.5	1213.7	-23.7	614.8	1237.4	
(U.S.& C.B.S.)	Not P	Pletted	67	17	35.92	784.4	525.8	- 2.9	781.5	528.7	
*VERTICAL IRON ROD,	Near	RM 222	45	11	00.058	1.8	1850.4	-23.7	1830.3	21.9	
- CO 10 10 10 10 10 10 10 10 10 10 10 10 10	Not ple	btted	19	17	33.007	720.7	589.3	- 2.9	717.8	592.2	
BRIDGESTONE, 1909	•	+	45	7	01.87	57.7	1794.5	-23.7	34.0	1818.2	
(180)	0	7	29	17	26.33	574.9	735.1	- 2.9	572.0	738.0	
SLOPE, 1909			4.5	7	11.241	347.0	1505.2	-23.7	323.3	1528.9	
(18c)	=	=	67	17	34.149	745.6	564.3	- 2.9	742.7	567.2	
COMPUTED BY. A.C. RAUCK, Jr.	auck, Jr.	AG	* Not plott	* Not plotted		CHE	CHECKED BY. A. K. Heywood	eywood		DATE Dec. 1949	M-2388-12
		•									

									N.A. 1927 - DAIUM	I-DAIOM	
STATION	SOURCE OF	DATUM	LONGITU	LATITUDE OR y-C	LATITUDE OR y-COORDINATE ONGITUDE OR x-COORDINATE	DISTANCE FRC	DISTANCE FROM GRID IN FEET.  OR PROJECTION LINE IN METERS	DATUM		DISTANCE FROM GRID OR PROJECTION LINE IN METERS	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
	(INDEX)					FORWARD	(BACK)		FORWARD	(BACK)	FORWARD (BACK)
	SPEC.	NI A	45	11	41.571	1283.4	568.8	-23.7	1259.7	592.5	
~	NO. 46	N.A.	29	17	02.169	47.4	1262.3	- 2.9	44.5	1265.2	
KIRK SPIRE (SCOTCH			57	=	35.82	1105.7	746.5	-23.7	1082.0	770.2	
STEPHENS)1908(-USECES)(IBC	(IBC)		29	16	55.83	1218.8	91.0	- 2.9	1215.9	93.9	
HOSPITAL 1909	=		45	11	31 191.	962.4	889.8	-23.7	938.7	913.5	
(4.9.80.8.5-) 1 BC	d		67	16	02.710	59.2	1250.6	- 2.9	56.3	1253.5	
RED HOISE, 1909	=	=	45	11	04.665	144.0	1708.2	-23.7	120.3	1731.9	
	LosT		29	15	05.891	128.6	1181.4	- 2.9	125.7	1184.3	
CROCKER 1909 1 BC	=	=	45	11	15.497	478.4	1373.8	-23.7	454.7	1397.5	
-			67	15	28.137	614.3	695.6	- 2.9	611.4	698.5	The state of the s
0	GP	NA	10	30	51.779	Z1.012	177	E. Si	Beyon	nd deta	il limits
John, 1946 (18c) List	List	1927	67	2.1	53.068	52.733		130	hot	plotte	4.
			45	or	15.406	14.43					
KIPS, 1946 (186)	n	11	67	77	19.447	17.317					
1			45	=	12.628	11.801					
BOX 2, 1946 (1BC)	=	11	67	2	02.516	の語の語の					
(180)			sh	"	04.288	P. 2. C. 4					
Red House 2, 1946	11	"	67	15	05.955	N.S. NA	1927				
(180)	186	AIA	SH	80	01.11	00.34		.767			
Clark, 1910 F	Report	17.	67	17	33.77	33.64		.130			
(18c)			45	10	58.73	57.96					
Ephraim 1910	,		67	17	23.48	23.35					
			45	07	32.84	32.07					
Waters, 1910	=	=	67	20	29.97	18.67				400	
1 FT. = 3048006 METER A . C . R.	A.C.Rauck Jr.		DATE De	Dec. 1949		CHE	A.K.Heywood	rwood		Dec. 1949	949

SCORMETON   CANTUME OF P. COORDINATE   CORRECTION WITTERS   CONTRICTION   CONTRICTIO	MAP T. ZZZE	0	PROJEC	PROJECT NO.			SCALE OF MAP		SCALE PACTOR	JR.
BC		SOURCE OF INFORMATION (INDEX)		LATITUDE	OR y-COO	RDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD 1 48AGW)		N.A. 1927 - DATUM DISTANCE ROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
	(J&C)	IBC.	NA		7		43.61	-,767		
	1410	Report		2		11.20	11.07			
	(180)	•				52.07	51.30			
1	Abbott 1910					60.8	57.96			
1	(180)					27.52	26.75	Near	RM	0
1	+		-			4.55	14.42	Not		
	(184)					3.30	12.53			
	Church, 1909	-	"			54.60	54. H.7			
	(180)					27.63	26.86			,
1.	Head, 1924	3	=			07.16	07.03			
				45	20	27.33	26.56	Near		
1	Head Fcc	=	=		77	01.10	16.97	10°+	10#	
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Ph-11(46) T-8786 SKETCH OF HORIZONTAL CONTROL

#### FIELD INSPECTION REPORT

TO ACCOMPANY

QUADRANGLE 8786

-PROJECT Ph-11(46)

OCTOBER 1946

#### 1 - DESCRIPTION OF AREA:

This quadrangle lies in Washington County, Maine, and is bounded on the North by N. Lat. 45°-15'-00", on the South by N. Lat. 45°-07'-30", and on the East and West by W. Long. 67°-15'-00" and W. Long. 67°-22'-30" respectively. About 18 square miles of land area in the quadrangle lies in the United States and the remainder is in Canada.

The principal cultural features are U. S. Highway No. 1, which enters the quadrangle on the east and runs northwest to Calais, thence southeast through the quadrangle to the southeastern corner; the town of Calais in the east central part; Milltown, south of Calais; the small village of Baring, south of Milltown; the Maine Central Railroad, extending south through the quadrangle from Calais; and the St. Croix River, which is the boundary line between the United States and Canada.

The vegetation consists mostly of pine, spruce, fir, hackmatack, maple, alder and birch. There is a small amount of farm land in the area.

The shoreline, in general, is rocky, with mud flats along the Calais waterfront. The head of tidewater is midway between the international bridge at Calais and the dam at Milltown.

#### 2 - COMPLETENESS OF FIELD INSPECTION:

All field inspection is complete. All important features such as buildings, road, railroads and vegetation were classified in accordance with instructions for the project.

The town of Calais was inspected on photograph 46 C 120 (1:8500) and the remainder of the quadrangle was inspected on the following 1:20,000 scale, single lens photographs: 46 C 117, 128, and 134.

#### 3 - INTERPRETATION OF PHOTOGRAPHS:

Reference is hereby made to the Field Inspection Report for quadrangle 8795 for discussion of this subject. Filed in Div. of Phisy-General Files

#### 4 - HORIZONTAL CONTROL:

71 Triangulation recovery cards are submitted. Some of these stations have been classified as lost, while others were not recovered due to their inaccessibility at the time. At least one station in each required area has been recovered and identified on the photograph. The stations that were not searched for are SAWDUST ISLAND, 1909 and REFERENCE MONUMENT 202, 1918. These stations are located on islands in the St. Croix River and it was not practical to put a boat in the river in that vicinity. IRVING, 1910 was also not searched for, for above reason.

#### 5 - VERTICAL CONTROL:

All vertical control stations of the Coast & Geodetic Survey and Geological Survey were searched for and those found were identified on the photographs.

About 28 linear miles of 4th order levels were run. 47 temporary elevation points were established by trigonometric leveling. There were several temporary elevations established in Canada and identified on the photographs.

The code letters CA prefix all spot elevations for this quadrangle.

The following 1:20,000 single lens photographs were used: 46 C 116, 117, 119, 121, 123, 127, 129, 133, 396, 397 and 390.

Level notes are shown on consecutively numbered pages of Trigonometric Leveling Form M-2339-12 (loose leaf).

#### 6 - CONTOURS AND DRAINAGE:

Inapplicable.

#### 7 - MEAN HIGH-WATER LINE:

The mean high-water line was delineated on the photographs within 0.5mm of true position.

In general, a boat was used and sailed as far inshore as possible to identify the mean high-water line.

Photographs on which shoreline and other field inspection appears are: 1:8500 ratio print 46 C 117.

Low altitude prints (1:8500 reduced from 1:6000) 46 C 425 - 433 inclusive.

#### 8 - LOW-WATER LINE:

The low water line was delineated on the low water photographs within the prescribed accuracy.

## 9 - WHARVES AND SHORELINE STRUCTURES:

Wharves appear along the Calais waterfront and have been noted on the photographs. There is a dam across the St. Croix River at Milltown.

## 10 - DETAILS OFFSHORE FROM HIGH-WATER LINE:

Wherever rocks or ledges were awash at or below mean high water, a note was made on the photograph as to how much the rock or ledge bared, the time and date.

## 11 - LANDMARKS AND AIDS TO NAVIGATION:

No new landmarks are recommended for charting.

There are no permanent fixed aids to navigation within the limits of the quadrangle.

#### 12 - HYDROGRAPHIC CONTROL:

Hydrographic signals were picked on the photograph for use of the hydrographer. These consist mainly of lone trees, or trees that stand out, such as on points of land. Also used for hydrographic signals were large boulders in the water, gables of houses and chimneys. Descriptions of hydrographic signals have been recorded in field sketchbook Vol. 9. An attempt was made to pick sufficient hydrographic signals, except in areas where it was impossible to pick signals with certainty.

Due to sufficient triangulation within the area, only I topographic station was established; this was the Black Stack of the Bar Mill at Calais which was accompanied for a lambanic.

Form 524 "Description of Recoverable Topographic Station" card was submitted.

#### 13 - LANDING FIELDS AND AERONAUTICAL AIDS:

There is a small air strip at Baring which was outlined on photograph 46 C 134. The runway is dirt.

There are no aeronautical aids.

#### 14 - ROAD CLASSIFICATION:

Roads were classified in accordance with "General Instructions - Classification and Compilation of Roads", dated 30 June 1945.

#### 15 - BRIDGES:

The vertical and horizontal clearances of the international bridge at Calais were noted on photograph 46 C 428.

#### 16 - BUILDINGS AND STRUCTURES:

Buildings and structures were identified by encircling them in red ink.

## 17 - BOUNDARY MONUMENTS AND LINES:

This is the subject of a special report submitted by Harold A. Duffy, Photogrammetrist. Filed in Div. of Phtgy-General Files

#### 18 - GEOGRAPHIC NAMES:

Same as 17 above.

#### 19 - SYMBOLS:

Symbols may be found on the back of photograph 46 C 430.

Note: Work was done on items 1, 2, 5, 13, 14, and 16 by John R. Smith, Eng. Aid.

Item 4 was done by Herschel G. Murphy, Eng. Aid.

Items 7, 8, 9, 10, 11, 12, and 15 were done by Irving I. Saperstein, Eng. Drafts.

Respectfully Submitted:

John R. Smith, Eng. Aid

Herschel G. Murphy, Englaid

Irving I. Saperstein, Eng. Drafts

Approved and Forwarded: /2-27-46

Ross A. Gilmore. Chief of Party

#### COMPILATION REPORT

#### TOPOGRAPHIC MANUSCRIPT

SURVEY NO. T-8786

The methods used in the compilation of this quadrangle are more completely described in Project Report PH-11(46). Special methods employed in the delineation of this manuscript are discussed in detail under their applicable heading.

## 26. CONTROL

#### a) Horizontal

Two substitute stations, BAILEY, INTERVAL, were identified on low altitude flight 46-C-403-412 (1:6000), originally furnished by field inspection. These points could not be definitely identified during the orientation of the multiplex triangulation. It was requested by the office to choose new substitute stations to be identified on contact prints 46-C-127-129. These new positions were readily identified and used in the final scale of the flight.

For additional information on control refer to Project Report PH-11(46) and sketch of "Horizontal Control" inserted in the front of this report.

Filed in Dio. of Phigy General Files

#### b) Vertical

In the vicinity of Baring opposite the Customs House a Bench Mark marked V-6 was identified but no elevation given. It is believed this point is the same as one listed in "Report, International Boundary Commission" on page 167 under Baring, Wash. County, Me. B.M. No. 91, El. 90.85.

Station defaced. Not shown on map manuscript.

## 27. RADIAL PLOT

None

#### 28. DETAILING

Some variation was noted in the shoreline of the St. Croix River due to the difference in dates of photography. These differences occur above the head of navigation. There are several flights over the same area.

Field edit recommended Using the law altitude photographs. See TP 30

#### 29. SUPPLEMENTAL DATA

None.

#### 30. MEAN HIGH WATER LINE

The major portion of the MHWL was furnished by the field inspection party on low altitude photographs 46-C-425-433 (scale 1:6000). An attempt was made to transfer this shoreline to the manuscript by use of the vertical projector. This was not possible due to the scarcity of common detail points. Consequently, using a stereoscope, the MHWL was transferred from the low altitude flight to ratio prints 46-C-117-119 (1:8500) and holding multiplex detail points, the shoreline was traced on the manuscript.

#### 31. LOW WATER AND SHOAL LINES

The same method as employed in the compilation of the MHWL was used in the delineation of the approximate low water line.

#### 32. DETAILS OFFSHORE FROM THE HIGH WATER LINE

Data completed

#### 33. WHARVES AND SHORE LINE STRUCTURES

Data complete.

## 34. LANDMARKS AND AIDS TO NAVIGATION

One landmark "Black Stack" could not be plotted. It is requested that the field edit party locate the stack. Field editor does not recommend this stack as a landmark.

\*\*\*

#### 35. HYDROGRAPHIC CONTROL

The following photo-hydro stations were rejected:

8613 8607 8610 8606 8602 8611

T.S. Black Stack - see item 34. Located by Field Elitor as topographic station.

## 36. LANDING FIELDS AND AERONAUTICAL AIDS

Data complete

#### 37. GEOGRAPHIC NAMES

Refer to item 37 of Descriptive Report for T-8790 concerning Moose-Horn Wild Life Refuge.

National

An alphabetical list of geographic names appearing on this map accompanies this report.

#### 38. JUNCTIONS

North is Canada East with T-8787

No attempt has been made to junction with the U. S. Geological Survey to the west and south.

#### BOUNDARIES

National

. The completion of the limits of Moose Horn Wild Life Refuge in the vicinity of St. Croix Junction was made using land tracts 44 and 45a,b of "Special Report in Boundaries".

Beginning at Monument No. 9 (corner G) distances were scaled and plotted from the Bearings and chained distances listed.

#### 39. BOUNDARIES (Continued)

Upon reaching the Magurrewock Stream the boundary follows the centerline of the river. Beginning from Corner "N" and working SW along the boundary the "points on fences" were plotted from field inspection data on photograph 46-C-121 (1:20,000). The junction between Corner "N" and the point where the limits reach the centerline of Magurrewock Stream could not be plotted due to insufficient information and it is requested that field edit complete this boundary.

The boundary limit from Corner 76 extending NW was drawn along a fence line as shown on field inspection photograph 46-C-133 (1:20,000) to U. S. Hwy No. 1, then NE to Corner "B".

The international boundary line between U.S. and Canada has been plotted using as a source "Report International Boundary Commission, Dept. of State, 1934", corrected to North American 1927 datum.

#### 40. BRIDGES

The data for the International Bridge at Calais is as follows:

Field Data	Tidal Corrections	·Clearance at MHW	U.S.E.D. Published Value
Fixed Bridge			Fixed Bridge
Hor. Cl. 119.6			115'
Vert.Cl: 5.7	.3	6×	10' HW
		Vert C1.	30' MLW
•		& tt	4 spans
		Checked by F	eld Editor

#### 44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES

Visual comparison was made with U.S.G.S. Calais topographic quadrangle dated 1932 and reprinted in 1944. They were in good agreement.

Numerous cultural and MHWL differences were noted upon comparison with the International Boundary Commission maps sheet No. 12 and 13. Since these maps were published in 1924 these changes are believed to be for the most part normal over this interval of time.

#### 45. COMPARISON WITH NAUTICAL CHARTS

Upon visual comparison with U.S.Coast and Geodetic Survey Chart No. 801 dated February 1949, agreement was found to be good.

After completion of field edit and hydrographic survey, this compilation should supersede all previously charted information.

Respectfully submitted

8 June 1949\_

Albert K. Heywood

Cartographic Draftsman

Descriptive Report and Review

Approved and forwarded

June 1949

Thos. B. Reed

Officer in Charge

Baltimore Photogrammetric Office

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#### NOTES FOR HYDROGRAPHIC PARTIES

#### EASTERN MAINE

#### TOPOGRAPHIC MANUSCRIPT

PROJECT PH-11(46) Survey T-8786

The following are descriptions of photo-hydro stations to be used as hydro-graphic signal sites:

	No.	Photo. No.	Description	Height above MHW(ft)
	8601	443	Brick chimney on $2\frac{1}{2}$ story white house, the most N. of group of houses.	75
	8603	117	25' leaning spruce tree, at edge of 10' bank and is the most N cedar in group.	ı
	8604	430	E gable of galvanized iron shed, on piling; gable is over MHWL.	25
_	8605	430	N gable of yellow shed with ventileston: on roof and four windows on W side.	1 30
	8608	429	E gable of 3 story red brick R R Building with hipped roof.	50
	8609	429	E corner of dock at sharp point.	2
	8610	428	W gable of 2 story red brick customs house	45
_	8611	428	Finial of cupola in center of 6 sided pyramidal red roofbuilding:	50
	8612	426	Black metal stack on galvanized iron building with ventilator on roof about 75 m of Gustoms house.	75

Respectfully submitted

Approved and forwarded

Mary Louise Rosenberg
Cartographic Aid

Thos. B. Reed Officer in Charge Baltimore Photogrammetric Office This addendum is to show the methods used to delineate the Canadian shoreline and immediate inshore detail.

Only those items which are applicable are included.

#### 26. CONTROL:

Multiplex models 460-118 to 0-121, and 0-116-117 were reset utilizing the same horizontal control heretofore used on the United States side of the International Boundary.

Additional control was not required.

#### 27. RADIAL PLOT:

A small triangular shaped area north of photo center 46C-117 could not be included in the multiplex coverage. A small radial plot was made using low altitude photos in this area to establish shoreline and inshore detail points.

#### 28. DETAILING:

Roads and streets in the vicinity of St. Stephen and the area across the St. Croix River from Milltown are the compilers interpretation. These are not classified:

Only those buildings immediately adjacent to the shoreline and a few located high in the town of St. Stephen are shown.

#### 30. MEAN HIGH WATER LINE:

#### 31. LOW WATER AND SHOAL LINES:

#### 32. DETAILS OFFSHORE FROM THE HIGH WATER LINE:

#### 33. WHARVES AND SHORELINE STRUCTURES:

#### 34. LANDMARKS AND AIDS TO NAVIGATION:

Items 30, 31, 32, 33 and 34 are the compilers interpretation from stereoscopic examination of photographs.

No landmarks on aids to navigation were recommended, however, there is one elevated object shown at approximately latitude 45° 11' 30" and longitude 67° 16'. Although this is on the Canadian shore of the St. Croix River, it is below the head of tidewater, and believed to be of sufficient height to be of use to the hydrographic party or as a landmark.

Field editor does not recommend this as a landmark.

## 35. HYDROGRAPHIC CONTROL:

None established. However, there are many piers, wharves and other shoreline structures along this Canadian shoreline which may be used for hydrographic control.

## 37. GEOGRAPHIC NAMES:

The following charted names have been added:

Canada Crocker 4. Denny Stream St. Stephen

Geog. Names List.

## 38. JUNCTIONS

A "Supplemental Sheet" has been ruled to join the north half of T-8786 at St. Stephen, Canada.

Respectfully submitted 20 July 1949

Albert C. Rauck, Jr.,

Cartographic Draftsman

Approved and forwarded July 1949

Thos. B. Reed, Officer in Charge,

Baltimore Photogrammetric Office

## ADDENDUM - SURVEY NO. T-8786

Additional compilation of the Canadian shoreline above tide water was completed during the time of application of field edit. This was done by multiplex, using models C394-C395, C395-C396, 46C127-C128, and C128-C129. As there was no shoreline inspection for this portion, that shown is from office interpretation of the photographs. The shoreline is now completed to the limits of the quadrangle.

Respectfully submitted 6 January 1950

Albert C. Rauck, Jr.

Surveying and Cartographic Aid

Approved and forwarded 6 January 1950

Hubert A. Paton

Officer in Charge

Baltimore Photogrammetric Office

#### Field Edit Report, T-8786

51. Methods. -- All roads were traversed by truck to check their classification, to investigate areas in question, to reclassify and check buildings, and to visually inspect contours and planimetry. Streets in the downtown congested area, the waterfront and adjacent streets, in Calais were traversed on foot as this method was necessary to clarify incorrect delineation.

The mean high-water line and the foreshore southeast of Calais and on the Canadian side were inspected from a skiff and outboard motor, at or near low-water.

Vertical clearance of the Calais-St. Stephen International Bridge was obtained by tape measurement. The time, date and clearance in feet was recorded on the Discrepancy Print in order that the accurate vertical clearance at mean High-water may be computed from the tidal data when available from the standard gauge at Eastport, Maine.

Standard planetable methods were employed to contour an area at the eastern edge of the City of Calais; to run a vertical accuracy test; and to obtain a peak elevation.

One natural object (stack) was located by theodolite at the request of the reviewer.

Field edit information is shown on the following: Discrepancy Prints; Field Edit Sheets Nos. 1 and 2; 1:8,500 scale ratio photographs 46 C 114, 115, 117, 119, 120, 121, 125, 129, 395, 396, 397; low altitude photographs 46 C 428, 429, 430, 431, 432; and 1:20,000 scale photographs 46 C 121 and 123.

Corrections and additions are shown in red ink; deletions in green. The letter "R" following a photograph number indicates a ratio photograph. Data shown on photographs has been cross-referenced on the Discrepancy Prints or Field Edit Sheets. No legend is shown.

52. Adequacy of compilation .-- Delineation of

buildings throughout the compilation is not adequate. A section of a print of the map manuscript (1:8,500) was used in connection with the photographs to indicate the necessary corrections in the City of Calais. This sheet is labeled Field Edit Sheet No. 2. Extensive redrafting will be required before the map manuscript is adequate.

Shoreline delineation on the U.S. and Canadian side of the St. Croix River will be adequate after appilcation of field edit data.

53. Map accuracy. -- One vertical accuracy test was run at approximate Lat. 45 07.5', Long 67 16.5'. This test was run in two parts. One part originated at bench mark J-6 vertically, was run westward and terminated at a trigonometric level point. The horizontal origin was at an acute road intersection and the termination was at the woods line where a trail enters a field. Horizontal error of closure was negligible. Vertical error of closure was 0.9 ft. high. No adjustment was made. It was run on 1:20,000 scale photograph 46 C 123.

The second part was run on 1:8,500 scale photograph 46 C 114. Origin and termination vertically were at bench mark J-6. Error of closure was 0.4 ft. low. Horizontal origin was at the intersection of a field trail and highway and termination was at a lone tree. Error of closure was negligible. No adjustments were made.

One peak elevation was obtained in the same area of the accuracy test. The work was done on 1:20,000 scale photograph 46 C 123. The elevation conforms with the contours.

Contours tested proved to be within required mapping accuracy.

An area of approximately \$\frac{1}{2}\$ sq. mile was contoured at approximate Lat. 45 ll', Long. 67 l6'. This work was done on 1:8,500 scale photograph 46 C ll?. Vertical control was bench mark A 65 and horizontal origin and termination was street intersections. Vertical error of closure was within 1 ft. and horizontal error was negligible. No adjustments were made.

54. Recommendations -- No recommendations are offered.

55. Examination of proof copy.--Mr. E. H. Lamb, Local Historian, Milltown Maine and MR. C. J. Miller, Calais, Maine, are intimately acquainted with the area and have agreed to review a proof copy of the map. It is believed that both these men are qualified to make an adequate examination.

No geographic names discrepancies were noted.

Respectfully submitted, October 27, 1949

Charle Varnade, George E. Varnadoe, Cartographic Engineer

#### LIST OF GEOGRAPHIC NAMES

- Baileyville .. Baring (village and district)
- · Calais (town and destrict)
- 🕟 Canada 🏏
  - . Conic Stream
  - · Calais Cemetery:
  - East Branch V
  - · Magurrewock Mountain
  - \* Magurrewock Stream
  - Maine Central Railraod
  - Milltown Moode Horn Wild Life Refage. Moose horn Netional wildlife Refuge
  - . Stoney Brook
  - · St. Croix River
  - · St Croix Tunction

Names in Canada

- · St. Stephen /
- . Crocker Island/
- · Denny Stream

  - , Maine No. 191

Names précédéd by . are approved. 8-10-49 L. Heck

#### HISTORY OF HYDROGRAPHIC INFORMATION

#### T-8786

## Calais, Maine Quadrangle

Hydrography was applied to the manuscript of this quadrangle in accordance with Division of Photogrammetry request of 26 September 1950, and with general specifications of 18 May 1949.

The depths are in feet at mean low water and originate with the following surveys:

## USE Hydrographic Surveys

BP-46660 (1949) 1:2,000

BP-46661 (1949) 1:2,000

Bottom contours are shown at 0 (represented by a dotted line), and 6 feet.

The hydrography was compiled by R. E. Elkins and checked by G. F. Jordan.

R. E. Elkins, 24 September 1950

R. E. Elkins

24 September 1950 Nautical Chart Branch

## Review Report T-8786 Topographic Map July 7, 1950

#### 26. Control

Twenty-two triangulation stations were plotted on the map manuscript during review.

The only triangulation stations shown in Canada are along the edge of the detail limits. Several stations were not plotted since they are very close to stations already shown. Notes were added to the Form M-2388-12 indicating the status of each station that is not plotted.

Ten USC&GS bench marks were recovered in the field and are shown on the map manuscript.

## 28. <u>Detailing</u>

Detail inshore from the MHW line in Canada is incomplete and has been neither field inspected nor edited and is shown only for the information of the Hydrographic Party. This detail is not to be published.

The boundary of the Moosehorn National Wildlife Refuge was completed by the Field Editor. The boundary of a small area not included in the Refuge, near the Maine Central R.R., was added during review from a map of the Refuge Boundary submitted by the Field Editor.

## 31. Mean Low Water Line

Low altitude photographs covering all of the shoreline on this map were flown at low water. The approximate mean low water line was compiled from these photographs and reconciled with the Hydrographic Surveys. No changes were made in the original compilation.

44. Comparison with Existing Surveys

a) USGS Calais	Quadrangle 1:62,500	0 1932	Repr. 1944
b) T-1150	1:10,000	1869	
T-1940	tt "	1889	
T-3246	ŧι	1911	

This map supersedes these surveys in common area for nautical charting purposes.

## Comparison with Nautical Charts

Chart No. 801

1:40,000 1949 -

Several minor changes have taken place in the wharf area at Calais and St. Stephen that are not shown on the chart.

## 47. Adequacy of the Compilation

This map, T-8786, is a complete topographic map and has been compared and reconciled with all hydrographic and topographic surveys of record in this Bureau and is, therefore, the most complete and accurate topographic map of record in the area covered. See Par. 28 relative to detail in Canada.

## 48. Accuracy Tests

The vertical accuracy test run on this quadrangle meets the project requirements. This map meets the National Standards of Map Accuracy.

#### 49. Overlays

An overlay was prepared showing the border information, road classifications and route numbers, triangulation stations, bench marks and selected spot elevations that are to be shown by the draftsman.

Reviewed by:

Approved by:

Chief, Review Section K. M. Division of Photogrammetry

Chief, Div. of Photogrammetry

Chief, Nautical Chart Branch Division of Charts