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POPM 504 DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY
State: SE. Alaska
DESCRIPTIVE REPORT.
Hyd. sheet No. 18, 4525 25
LOCALITY:
Chichagof I ~ W.Coast
Kukkan B. + Lower Part Portlock Hbr.
1925 ————
CHIEF OF PARTY:
AM Sobjeralski

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	state of	Instru	tions 2	6.4,1925.					
		A	M.Seherie	ski, H.and of Party.	G. E.	ļ		<u> </u>	
			Chief	of Party.			- T-		1
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GENERAL DESCRIPTION AND LIMITS

This sheet includes the south section of Portlock Harber. Surveyer' Passage, Black Bay, South Passage, Kukkan Bay, Cape Edward, Passage, and Geose Passage.

INSECRE DANGERS

- 1. Sunken reck with 4 ft. ever it at L.W. 265 meters 210° true from O Engla.
- 2. Sunken reak with 8ft. emer it at L.W. 530 meters 205° true from 0 Engle.
 - 3. Reck awash at L.W. 210 meters 195° true from 0 Chris. 10-
 - 4. Reck awash at L.W. 68 meters 0 true O Gar.
 - 5. Reck awash L.W. 68 meters, 315 true from 0 Nut. -6. Sunken Reck 112 meters 228 true 0 Drap. --
- 7. Minnie Reef bares at 2 tide, 60 meters in diameter, 209 meters, 55° true from O Rain.

 - 8. Reck awash at L.W. 179 meters 54° true O Rain.
 9. Sunken Reck 150 meters 332° true O Zac.
 10. Sunken Reck 110 meters 0° true O Zac.
 11. Reck awash L.W. 50 meters 2330° true from O Ann.
 12. " " 196 " 281° " O Sex.
- 13. Reef awash at L.W. 107 meters South of O Zip. This reef extends in a westerly direction for 120 meters.
 - 14. Reef awash at L.W. 220 meters 122 true from 0 Tew: Toe -
 - 15. Reef awash at L.W. 70 meters nertherly of 0 La.

 - 16. Sunken Reck 190 meters 92° frem 0 Tew. Toe ~ 17. Reef awash at L.W. 230 meters 84° true frem 0 Tew. Toe ~
 - 18. Reck awash at L.W. 86 meters 17 true O Bat.
 - 19. Black Bay Reef bares at $\frac{3}{2}$ tide 440 meters 69° true from 0 Bat. \sim 20. Sunken Reek 110 meters 31° from 0 Fal. \sim

 - 21. Reck awash L.W. 320 meters 97 true from 0 Fal. L
- 22. Sunken Reck severed by 4 ft. water at L.W. 206 meters 145° true from O Chat.
 - 23. Reck awash at L.W. 100 meters 322 true 0 Pal.
 - 24. Reck awash at L.W. 240 meters 20° true O Bad. -
 - 25. Reck awash L.W. 380 meters 26° true O Bad.
 - 26. Recks awash at L.W. 250 meters 46 true 0 Bad. ~
 - 27. Sunken Reck 316 meters 49 true 0 Deer
- 28. Reck awashL.W. 240 meters 276 true Dad. 129. Reck awash. L.W. 50 meters 0 true 0 Nat. Marked by kelp in the vi-
- 30. The shereline from 0 Nat to 0 Gun on the south shere of South Passage is foul with numerous rocks and kelp.
 - 31. Reek awash at L.W. 158 meters 236 true O Age. -
 - 32. Rocks awash at L.W. 60 meters N.E. of Edward.

 - 33. Reak awash at L.w. 240 meters 146 true of Edward.

35. Sunken reck covered by 13 ft. water at L.W. 431 meters 354 true from O Yap. This is the tip of a sunken reof that breaks in heavy weather and extends in a S.E'ly direction to O Yap. It is marked by anchored kelp Spring.

36. Reck bare at L.W. 100 meters 600 true 0 Yap. in the Spring.

- 37. 17 ft. sheal, recky, 484 meters 131 true 0 Yap. 4

- 38. Reck bare at L.W. 593 meters 140° true O Yap. 239. Reck awash at L.W. 730 meters 125° true O Yap. 240. 8 ft. sheal, recky. 730 meters 125° true frem O Yap. 41. Reck awash 150meters 99° true frem O Fun. 242. Sunken reck 164 meters. 0° true frem O Leek. 243. Reck awash 150 meters 180° true frem O Leek. 245. Reck bares at V.W. 230 meters 180° true O Step. Oxfoliably locan 115"

- 43. Reck bares at L.W. 230 meters 180 true 0 Step. ___
- 44. Reef awash extends 100 meters in a N.W. ly direction from O Sid. -
- 45. Reck awash 220 meters 290° true from 0 Sid. The channel between this reck and 0 Sid is shallew- 6 ft. being the least depth.
 46. Reck awash at L.W. 100 meters 0 true from 0 Gu.
- 47. Reef awash at L.W. extends in a N.W'ly direction for a distance of 140 meters 0 Set.
 - 48. Reef awash at L.W. 239 meters 193 true O Tez.
 - 49. Sunken Reck 300 meters 67° true from 0 In. 🗡

REMARKS.

Beginnings and endings of lines are entered in sounding records in degrees true and statute miles.

All bearings to rocks and breakers are recorded in sounding records are magnetic unless etherwise meted.

The plane of reference for tides is MLIW. Kimshan Cove tides were used- plane of reference 12.3 and Sitka tides when Kimshan Cove tide gauge was not in operation-plane of reference 9.8ft.

Augustus P. Ratti

Respectfully submitted,

Jr. H.and G.E.

STATISTICS SHEET # 1 B	

	Date 1	925	Letter	Volume	P ositio ns	Sound- • ings	Mi. Statute Sounding Lines	Statute Statute Working Grounds	Statute from Working Grounds	Launch	
	June-	8	8	1	27	- 86	5.2	28.0	5.0	62	
		9	b	1	35	95	5•5	4.5	5.5		
		16	G	1	77	203	11.0	5.0	6.5		
		26	₫.] 1	34	81	4.0	5.5	5.0		
	July	16	e	1	42	106	5.5	6.0	6.0		
		17	f	1	11	31	1.3	4.0			
		17	£	2	25	93	5.2		4.0		
		21	g	2.	57	171	9.5	4.0	4.0		
	•	22	h	2 2 2	25	54	5.6	4.0	4.5		
		24	j	2	121	221	14.2	6.0	7.0		
	August	1	k		5	12	0.5	6,0	7.0		
_		7	1	2	3	4	0.1	2.0	2.0		
		17	m.	2	21	74	1.5	1.0	1.0		
		20	·n	2.	7	18	1.0	2.0	8.0		
	Sept.	29	0	3	66	114	5.5	10.0	10.0		
		30.	10	3	102	198	15.0	10.0	10.0		
	Oct.	1	Q.	3	90 .	201	14.4	10.0	10.0		
	P	2	r	3 3	6	15	0.2	7.0	8.0		
		3	ន	3	33	69	3.0	9.0			
		3	s	4	28	52	3.0		10.0		
		5	t	4	109	161	9.0	10.0	10.0		
		9	u i	4	13	21	1.0	10.0	9.0		
		14	v	4	81	167	13.0	3.0	4.0		
		15	W	4	123	229	16.0	3.0			
		15	W	5 ·	51	105	5.0		3.0		
			•		1192	2581	155.2	150.0	139.5		
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3-DRM

January 21, 1927.

To:

Commanding Officer.

U. S. Coast and Geodetic Survey, Steamer SURVEYOR,

202 Burks Building, Seattle, Washington.

From:

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

Subject:

Hydrographic Sheet No. 45258.

Reference:

- (a) Director's letter No. 10-LE, January 4, 1927.
- (b) Letter from Commanding Officer, SURVEYOR, January 11, 1927.

The receipt is acknowledged of reference (b).

The rock indicated as sunken on the boat sheet of hydrographic sheet No. 45258 off signal "Sex" has been plotted on the smooth sheet and chart as a rock awash which is thought advisable for safety.

The fact that the hydrographer noted the rock in passing, and as it was your intention to have the topographer later determine a closer location of this obstruction, would indicate that the rock is close to the surface. Adjacent soundings also tend to warrant this roundlession on account of the broken bottom in the immediate violaty.

(Digrad) R. J. Faria

Acting Director

POST-OFFICE ADDRESS:

202 Burke Bldg. Seattle, Wash.

TELEGRAPH ADDRESS:

EXPRESS OFFICE:

JAN 17 9 15 AM 27

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DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

Str. SURVEYOR Jan. 11, 1927

To:

Director.

U. S. Coast & Geodetic Survey.

From:

Commanding Officer.

U. S. C. & G. S. S. SURVEYOR.

Subject:

Hydrographic Sheet 4525a

Reference:

Director's Letter 10-LE dated Jan. 4, 1927.

The rock shown on the boat sheet off the point on which signal Sex is located mentioned in above reference was located by approximate distance and direction from a hydrographic position. It was intended that the topographer should more accurately locate the danger, but as far as can be determined from the records on hand, this was never done.

A. M. Sobieralski Commanding Officer

U.S.C.& G.S.S.SURVEYOR

* Plotted on smooth sheet as rock awash in position shown on boat sheet, as information indicates that this rock is close to the surface.

WY)



January 4, 1927.

Sign The

Pot

Commanding Officer,
Coast and Geodetic Survey,
under Ship SURVEYCE,
202 Burke Building,
Seattle, Washington.

Reform to but A.M. Div. The con-

Throught

Inspector, Seattle Field Station.

Pront

Director, U. S. Coast and Geodetic Survey.

Subject:

Hydrographic Sheet 4525a.

There is forwarded to you under separate cover, boat sheet of work executed by your party in the vicinity of Herbert Graves Island.

Off the point upon which signal Sex is located, there is shown in pencil the sunken rock symbol. There also appears the word "locate" near this symbol. The symbol was not transferred to the smooth sheet.

In order that the proper record may be made for the smooth sheet it is desired that you advise whether the position of this rock was definitely determined or if thewillibe be necessary to consider the position plotted on the boat sheet as approximate only.

(Signed) E. Lester Jones

Director.

See attached letter (Jan. 11, 1927)

Ayd. 4525 a

This sheet covers the southern part of Portlock Harbor, Surveyor Passage, Black Bay, South Passage, Kukkan Bay, Cape Edward Passage and Goose Passage.

The ground, which is very broken with numerous rocks and shoals, has been fairly well covered but not closely developed. A few more soundings could have been obtained in the narrow channel between Surveyor Passage and Black Bay.

The rocks shown on the sheet have been checked up with the topographic sheets and the list given in the descriptive report. There is a sunken rock symbol shown in pencil on the boat sheet, off signal "Sex" on the west side of Division Island, which is not on the smooth sheet.

The sheet has been only fairly well protracted as a number of errors were found. The soundings have been poorly plotted. The soundings between positions were invariably spaced evenly without regard for the time interval.

Doubtful points which came up in the verification of the sheet were discussed and settled.

The records are satisfactory.

R.L. Johnston

Stor Har and Aces State Grant !

N.D. 4525 b

The wire drag work on this sheet consists of one strip in the lower part of Portlock Harbor and one strip in Surveyor Passage. This sheet is on a scale of 1 to 5,000, but the

(1. and D. tracing was prepared on a scale of 1 to 10,000 so that it could be super imposed on

the hydrographic sheet.

No descriptive report was turned in for this

sheet.

The records are satisfactory except that on a few pages in the end launch record, both the day letter and date were omitted.

The work has been well plotted.

P.L. Johnston

ADDRESS THE DIRECTOR U. S. COAST AND GEODETIC SUNVEY

AND REPER TO NO. 11-DRM

DEPARTMENT OF COMMERCE

U.S. COAST AND GEODETIC SURVEY

WASHINGTON

December 11, 1926.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 45258

West Coast Chichagof Island - Vicinity of Portlock Harbor, S. E. Alaska

Surveyed in 1925

Instructions dated February 4, 1925. (Surveyor.)

Chief of Party, A. M. Sobieralski.

Surveyed by A. P. Ratti.

Protracted and soundings plotted by E. H. Kirsch.

Verified and inked by R. L. Johnston.

- 1. The records conform to the requirements of the General Instructions.
- 2. The plan and character of the survey conform to the requirements of the General Instructions.
- 3. The plan and extent of development satisfy the specific instructions except that there are a few indications of dangers that were not sufficiently developed. These will be mentioned hereafter.
- 4. The information is sufficient for drawing the usual depth curves except in a few places along shore.
- 5. The sounding line crossings wherever run are generally adequate.
 A comparison of adjacent lines shows a good agreement on the whole considering the irregular character of the bottom.
- 6. The field plotting was completed to the extent prescribed in the General Instructions, but it was not carefully done. There were a number of errors in protracting. The soundings were spaced uniformly throughout, entirely disregarding the time intervals.
- 7. The junction with H. 4524 is adequate.

A junction was effected with the work on the old survey, H. 2859.

The junction with H. 4526 will be taken up in the review for that sheet.

- 8. Additional lead line development is required in the following places.
 - a. The shoal area off © Tiz (lat. 57° 43 3/4', long. 136° 11') requires further work to determine the extent of the shoal.
 - b. More soundings are needed off the northern end of Division Island. The 5 1/2 fathom sounding found by the drag (from H. $4525^{\rm b}$) should be dragged again to determine the least water.
 - c. The 3 1/2 fathom shoal in Surveyor Passage (lat. 57° 42' 1180 m., long. 136° 09' 715 m.) found by the drag (H. 4525^b) should either have further lead line development or else should be redragged to determine the least water.
 - d. The northern entrance to Black Bay from Surveyor Passage needs development. A spit apparently makes out towards this entrance from the mainland, making it important to know what depth can be carried across.
 - e. The 15 fathom shoal in South Passage (lat. 57° 41', long. 136° 153/4') should be developed closer.
 - f. The ridge in the vicinity of lat. 57° 40 1/4', long. 136° 15 1/2' needs further development.
 - g. The 11 fathom shoal at the entrance to Kukkan Bay (lat. 57° 40', long. 136° 14 3/4') should have more soundings.
 - h. In Kukkan Passage about 250 meters southwest of © Heel more soundings are needed to completely develop the shoal. If this is a used passage then additional soundings should be taken in the narrows (lat. 57° 38' 900 m., long. 136° 11' 600 m.).
 - i. More soundings in the channel north of Δ Snipe leading into Ogden Passage.
 - j. The work in Tawak Passage is no more than a reconnaissance and if it is considered sufficiently important additional lines should be run.
- 9. Whenever this area develops commercially, it is recommended that all shoals be wire dragged.
- 10. Attention is called to the following which should be referred to the field party for information:

a. About 65 meters west of © Sex on Division Island the boat sheet shows a sunken rock symbol in pencil. It was not plotted on the smooth sheet by the field party nor is there any mention made of it in the sounding records. Pending information from the field this rock will not be shown.

11. Character and scope of field operations - very good. Field drafting - fair.

12. Reviewed by A. L. Shalowitz, Nov., 1926.

lin boat sheat position. See letter from Sabienalski, dan. 11,1927. attached to this report.

Approved:

Chief, Section of Field Records (Charts)

Chief, Section of Field Work (H. & T.)

IN REPLY ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY
AND NOT THE SIGNER OF THIS LETTER

AND REFER TO NO. 11-DEM

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY ...

WASHINGTON

December 7, 1926.

SECTION OF FIELD RECORDS

Report on Wire Drag Sheet No. 4525b

Surveyor Passage - Portlock Harbor, Southeast Alaska.

Surveyed in 1925.

Instructions dated February 4, 1925. (Surveyor.)

Chief of Party, A. M. Sobieralski.

Surveyed by A. P. Ratti.

Protracted and inked by A. P. R.

Verified and Area and Depth Sheet, R. L. Johnston.

- The records conform to the requirements of instructions for wire drag work except that the regulation wire drag volumes were not used. Also on several pages of the end launch records, the information usually given at the top of each page was omitted.
- 2. The methods and character of the survey do not conform to the requirements of the General Instructions. The drag work is not continuous nor was the least water determined over the shoals that were found. The controlling effective depth of the drag in Surveyor Passage is only 20 feet and in many places the width of the drag narrows down to almost a negligible width.
- 3. The least water was not found on the two important shoals that were discovered, namely, the 21 ft. sounding in Surveyor Passage opposite Division Island and the 33 ft. sounding about 1/5 mile north of Division Island. The latter is surrounded by depths of 8 and 9 fathoms and lies directly in the path of vessels rounding the black buoy. Gaps in the drag work were left in both cases.

t. The drag work from 31 C to the end of the day was not plotted by the field party. This work apparently extends into Kimsham Cove, and uses signals that could not be identified in the office. At the suggestion of the Chief of Field Work this work was omitted inasmuch as no groundings occurred and par-

ticularly since the survey is incomplete.

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- 5. On account of the incomplete character of the drag work and the fact that it was not intended to make a systematic drag survey of this passage, it is recommended that the soundings only should be charted, emitting the limits of the drag work from the tinted charts.
- Character and scope of field operations good.
 Field drafting very good.
- 7. Reviewed by A. L. Shalowits, Nov., 1926.

Approved:

(2

Chief, Section of Field Records (Charts)

Chief. Section of Field Work (H. & T.)

Note:

There is no descriptive report for this sheet. This report is therefore attached to H.4525a.



Division of Hydrography and Popography:

Division of Charts:

Tide reducers are approved in volumes of sounding records for

HYDROGRAPHIC SHEET,

Locality:

S. E. ALASKA, PORTLOCK HARBOR.

Chief of Party:

Plane of reference is

A. M. Sebieralski, 1926.

Plane of reference is

A. L. W.

Sebieralski, 1926.

Condition of records satisfactory except as checked below:

- 1. Locality and sublocality of survey omitted.
- 2. Month and day of month omitted.
- 3. Time meridian not given at beginning of day's work.
- 4. Time (whether A.M. or P.M.) not given at beginning of day's work.
- 5. Soundings (whether in feet or fathoms) not clearly shown in record.
- 6. Leadline correction entered in wrong column.
- 7. Field reductions entered in "Office" column.
- 8. Location of tide gauge not given at beginning of each day's work.
- 9. Leadline corrections not clearly stated.
- 10. Kind of sounding tube used not stated.
- 11. Sounding tube No. entered in column of "Soundings" instead of "Remarks".
- 12. Legibility of record could be improved.
- 13. Remarks.

Flunde

Chief, Division of Fides and Carrents.

Division of Charts:

Tide reducers are approved in 5 volumes of sounding records for

HYDROGRAPHIC SHEET NO. 4525 A

Locality: S. E. ALASKA.

Chief of Party: A. M. Sobieralski: in 1925.

Plane of reference is

9.8 ft. on tide staff at

12.3 ft. ---- do ---- Kimshan Cove.

For reduction of soundings, condition of records satisfactory except as checked below:

- 1. Locality and sublocality of survey omitted.
- 2. Month and day of month omitted
- 3. Time moridian not given at beginning of day's work.
- 4. Time (whether A. M. or P. M.) not given at beginning of day's work.
- 5. Soundings (whether in feet or fathoms) not clearly shown in record.
- 6. Leadline correction entered in wrong column.
- 7. Field reductions entered in "Office" column.
- 8. Location of tide gauge not given at beginning of each day's work.
 9. Localine corrections not clearly stated.
- 10. Kind of sounding tube used not stated.
- 11. Sounding tube No. entered in column of "Soundings instead of "Remarks".
- 12. Legibility of record could be improved.
- 13. Remarks.

Chief, Division of Tides and Currents.

Division of Hyllography and Topography:

Division of Charts:

Tide reducers are approved in volumes of sounding records for

HYDROGRAPHIC SHEWT NO. 4525 B

Locality: S. E. ALASKA.

Chief of Party: A. M. Sobierglaki in 1925.

Plane of reference is MLW 12.3 ft. on tide staff at Kimshan Cove.

For reduction of soundings, condition of records satisfactory except as checked below:

- 1. Locality and sublocality of survey omitted.
- 2. Month and day of month omitted
- 3. Time meridian not given at beginning of day's work.
- 4. Time (whether A. M. or P. M.) not given at boginning of day's work.
- 5. Soundings (whether in feet or fathoms) not clearly shown in record.
- 8. Leadline correction entered in wrong column.
- 7. Field reductions entered in "Office" column.
- 8. Location of tide gauge not given at beginning of each day's work.
- 9. Leadline corrections not clearly stated.
- 10. Kind of sounding tube used not stated.
- 11. Sounding tube No. entered in column of "Soundings instead of "Remarks".
- 12. Logibility of record could be improved.
- 13. Remarks.

Chief, Division of Tides and Currents.

Descriptive Report
to accompany
Wire Drag Work Surveyed 1926
on Hyd. Sheet No. 45253

Portlock Harbor, Alaska.

MAR 12 11 26 AM 27 14

While the instructions for field work for the Str. SURVEYOR did not specify wire drag work in this vicinity, a favorable opportunity was found to drag over some suspicious soundings, which had not been fully developed by the hydrographic party.

The drag was set at 48 feet. No test of the drag was made because the engine of one of the launches broke down and the tender had to be used for towing the launch. The ship's drag outfit with collapsible buoys was used for this work.

No shoals were discovered.

The work was plotted on a tracing of Hydrographic Sheet No. Scale 1-10,000. Southern part of Portlock Harbor and can easily be transferred to the smooth sheet.

Section of Field Records Report on wire drag work shown on Sheet No 4525a Surveyed in Oct., 1926

Chief of Party - a. M. Sobieralski
Surveyed by - a. P. Ratti Sheet of a with a restricted and inked by P. L. Johnston
Verified by a. L. Shalowitz

The records conform to the requirements of the General Instructions.

The methods and character of operations fulfill the requirements of the General Instructions except that no tests were made for lift as the tender was not available for that purpose.

No specific instructions were issued for wire dragwork. This work consists of only one drag strip. No should were discovered and no soundings taken.

The work was plotted by the field party on a tracing of Hyd. 45252. This tracing is now filed as a boatsheet. The work was replotted in the office on the original sheet, and has been incorporated in the area and Depth sheet of Hyd. 45256 incorporated in the area and Depth sheet of Hyd. 45256

P. L. Johnston

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The finished Hydrographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. 4525a

18
State S.E.Alaska
General locality
Locality Pertleck Herber (Academy Academy)
Chief of party . A.M.Soberialaki, Cem'd'g Str. Surveyer
Surveyed by . Augustus P.Ratti, Jr. H.and G. E
Date of survey . June8 to .Oct. 15, 1925
Scale 1-10000
Soundings in Fathems
Plane of reference HIW EHKinsch Protracted by A.P.R. Soundings in pencil by A.P.R.
Inked by
Inked by Verified by
Records accompanying sheet (check those forwarded):
Des. report, Tide books, Marigrams, Boat sheets,
5 Sounding books, Wire-drag books, Photographs.
Data from other sources affecting sheet
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Remarks:

WIEL DEPO

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

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

Field No. REGISTER NO. 4525b WELLDSAG State Alaska Locality Surveyor Passage and SE. Portlock Hbr. Scale 1-5,000 Date of survey Oct. 1925 Vessel SURVEYOR Chief of Party A. M. Sobjeralski, H. + G.E. Surveyed by A. P. Ratti Jr. H. G. E. Protracted by A. P. Ratti Soundings penciled by A.P.Ratti Soundings in fathoms feet Plane of reference M.LLW. Kimshan Cove Subdivision of wire dragged areas by APRatti Inked by..... Verified by_____ Instructions dated Feb 4 ,1925 Remarks: Enlargement from Hyd Sheet# to show wire drag work.