4877 4877a

Diag. Cht. No. 5702-2
Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Hydrographic Field No. Office No. 48778A
Field No. Office No. 48778A
LOCALITY
State Colf. & Oregon
General locality Chetro Cove
Locality
·
<u>1942</u> S
J. G. Engle
LIBRARY & ARCHIVES
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Form 504

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

E. Lester Jones, Director

6. & 8. SURVEY

MAY 7 - THE

Acc. No.

State:

Oregon and California

DESCRIPTIVE, REPORT

Topographic

Hydrographic

Sheet No. 13 Field

LOCALITY

-Southern Oregon Chetco Cove

Brookings

Winchuck River to Chet co River

1928

CHIEF OF PARTY

F. G. Engle, H. & G. E.

VERNERAL PRINTING CITE

Memorandum H-4877a

The Topographia detail shown on H-4+772 (1934) has been transferred from the 1928 surege (H-4877 and T-4423).

Humunay

DESCRIPTIVE REPORT To Accompany Hydrographic Sheet No. 13

Instructions Dated March 13, 1928

U.S.C.& G.S.S. DISCOVERER F. G. Engle, H.& G. Engineer, Commanding.

Surveyed by R. W. Knox

September 17-October 20, 1928

Launch MARTHA Starboard Motor Sailor

Survey Methods:

A twelve pound lead was used in surveying this area by the launch MARTHA and a eight pound lead on the Motor Sailor. The lead-lines were of bronze wire center sash-cord, carefully made and checked frequently. No difficulty was experienced in keeping the error within one percent of the depth. Standard survey methods were used in obtaining positions and soundings.

Dangers:

There is a group of breakers in latitude 42° 02' 1320 M. longitude 124° 17' 1300 m. This group is within the nine fathom curve.

The Chetco Point Reef extends south from the point about 150 meters and constitutes a danger due to the tendency for small boats to hug the coast on leaving the harbor for northern points in heavy northwesterly weather.

South of Brookings the rocks are well inside the ten fathom curve. The following rocks are, however noted:

A double rock awash lat. 42° 00 393m. long. 124° 14 684 m.

An islet lat. 42° 00'570 m. long. 124° 14' 540 m.

A rock awash at 2/3 tide lat. $41^{\circ}59$ ll90m long. 124 13 1225 m.

Channels:

There are no channels in area covered by the sheet.

Anchorage:

Chetco Cove affords some protection from northwesterly weather, but is uncomfortable in heavy northwesterly weather. It affords no protection in southerly weather and all boats leave. There is considerable rocky bottom in the anchorage.

Comparison with previous surveys:

The following rocks and shoals, shown on chart 5909 and bromide H 212 A, were searched for with the result shown:

± 141 og 1 *					Remarks.	
	lat.	dm.	long.	dp.	least water	Pos.
1. Group of sunken rocks	42 02	1370 1270	124 17	1120	unable to fin	d 13-14a 2 3-4f
						23-24h
	42 02				21 1/2 ft	72a /
3. 2 1/2 fathoms	42 02	1060	124 17	40	4 fathons	13-14j L
4. 7.1/4 "	42 02	580	124 17	330	9 #	127e
•					10+11	13-14c
5. 9 1/4 "	42 02	-510	124 16	1290	. 9 <u>3</u> "	30e,
		480				43e, 147-
•						e. 30 tr
6. Sunken rock	42 02	700	124 16	170	4 2/6 "	8 1 g
7.	42 02	230	124 16	150	unable to fin	.d
		240		lea	ast water 642/	6 fa.
· .	•					-2 2 h
	42 01	1550	124 15	920	1 2/6 fa.	26c
					442/6 "	
10. 1 1/2 "	42 Ol	1160	124 15	903	Brks.Mod sea	10-11h
•		4			at low water	
11, 2 2/6 "	42 02	344	124 15	1280	5 1/6 fath.	39c

The following rocks are shown on photostat H 1239 and not observed by the party:

```
Rock awash lat. 41 59 881 m., long. 124 13 667 m.

Sunken Rock " 41 59 867 m., " 124 14 240 m.,

" " " 41 59 1711 m., " 124 14 612 m.

" " " 42 01 640 m., " 124 14 1040 m.
```

The following rocks are not on photostst H 1239 and observed by the party:

Rock awash lat. 42 00 585 m., long. 124 13 1170 m. Sunken rock " 42 00 738 " " 124 13 1073 "

Salmon Rocks, Bar Rock and Twins are shown on chart 5909 as islets but observed by the party as awash at high tide. White Rock, shown as islet and observed to be awash at 1/3 tide.

The two gaps of rock, 340 m. and 400 m. respectively south of hydrographic station Sam were not observed by the hydrographic party. There was, however, an unusual amount of kelp in that vicinity between positions 126a-128a.

Approved and forwarded:

F. G. Engle, H. & G. E., Commanding Respectfully submitted,

Robert W. Knox, Jr. H. & G. Engr.

STASTICS, SHEET 13

Date	1928	Day	Vol.	positions	soundings	miles(stat)	Vessel
Sept.	17	a	1	84	201	12.4	MARTHA
\$7	18	b	1	80	254	11.5	#
11	19	C	1	103	257	16.0	**
17	27	ď	1 1	48	2 33	8.5	11
***	28	е	1.	193	484	20.5	**
Oct.	15	f	2	34	98	3.4	**
17	17	g	2	86	286	7.0	***
17	29	h	2	28	36	0.0	11
77	30	j	2	17	<u>35</u>	0.5	97
Total				673	1824	79.8	
Sept.	20	a	1	159	501	19.5	Motor Sailor
**	29	Ъ	1	27	142	2.3	11 17
Oct.	1	c	1	131	497	12.5	H T
Tota	l			317	1140	34.3	
Oct. 1	18	a	1	33	109	1.6	Skiff
TOTAL	LS			1023	3073	115.7	

J

APPROVAL BY CHIEF OF PARTY

Hydrographic sheet 13 and accompanying records are approved. Office work only was done under my supervision, the field work being done by detached party under only occasional supervision. No additional work is considered necessary.

F. G. Engle, H. & G. Engr. Commanding Str. DISCOVERER

 $\mathcal{G}_{k,+}$

TIDAL NOTE

The auto-portable guage at Brookings, Oregon, lat. 42 03 north, long. 124 16 west, was used in reducing the soundings on this sheet.

The plane of mean lower low water was used. The reading of mean lower low water on the guage was 1.59 feet.

The tabulations for highest and lowest tides observed have not been made.

Sec. of Field Records

May 24, 1929.

Division of Hydrography and Tapography: .

Division of Charts:

Tide Reducers are approved in volumes of sounding records for

HYDROGRAPHIC SHEET

4877

Locality: Chetco Cove, Southern Oregon

Chief of Party: F. G. Engle in 1928.

Plane of reference is mean lower low water, reading ft. on tide staff at Brookings, Oregon.

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.
- Location of tide gauge not given at beginning of 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.

Paul C. mancaey

Chief, Division of Tides and Currents.

Page 1 Marty F. G. Engle Surroyed. P. W. Kinsc Harry and suched & James by 18 11 18 her vacordo conform & the requirement of G. S. have and che acter of the development fulfiel the requirement Sounding line crossing and adapte The defthe come can be completed than The field blotting was completed to the extent pregnated in I sugarity in g. I must be that that provide on the property of pains non that photo and provide that The plotting of procitions was excellent but the blothing of sounding is whoatisfactory I grow rous values and the mee of quarter fathoms below I fait and the use of 6 store I forthern constitute The two wager defects. again - That is let was ponetices placed as 8 fathories and 10 pack 4 feet was platted as 11 fathories The data given in the descript regarding rocks shorts and least differ hour been such our checked In addition to the a list of shoul soundings and doubtful spots observed through the rerefrection is submitted with the refort This list is independent of that given in the descript report

		Tento	subtful stats - H 4877 age
	STATE OF THE	Position (Remarks
	1 1 10 25	Set 41-59.95	blosers to 14 pil and with it is
		long, 124-13-7:	should have been further double double
	2 6	hong. 124-13.3'	obser the 14 fathome 200 m. S.W of this position of this position of the posit
	18		
	-	Part - 42-00.05' Fong 124-13.65'	Note others above it
	4	fat 42.00.4'	
	46-4		
O	76	100g / EK - 13.3	1502/
O	4	fat 42-01.75 fong 124-1575	8.
	42	Fat - 42°-01.45"	
	72	Pang 12 10 15.50'	
	56	Song 124 15.95	should have been investigated.
•	12	fat 42-01.85	The sounding is sufferted by a 30 on 12/2a
	2 2 6	Tong. 124-15.7 Cat 42=02.05	000
		Jong 124-15.9	
	6 G	fat 42-02.05' Fong 12x-16.05	
	65	Fat 42-02.15-	
		Long 12x 16 - 15"	
	66	forg 12k-17.5	
	52	Lat 42 - 02.45	
	3 4	fat 42-02.5	
	<u> </u>	Kong 124-17.1 (16-	Asel also a 32 about 100 m north and shightly that of this position should of record town
	-51	Lat 42-02.55 Long 124-17.06	The found that town
en e	15-	fat 42-025	
	22 and 25	Tong 124-16.7 Cat - 42-02.55	
	12 and 26	Long -12x-16.9	<u>.</u>
	42	fat 41-02.65	
•	3 2	Lorg. 124-17.97	Moto elat il
	68.	Long 124-17.83	on H-12/2 a Vicinity of sun tem rock
	<u></u>	fat _ 42-02.1. Long 124-16.1	Note that this is in Vicinity of sun ken rocks Note that this is close to sunken rock on H-12120
	5 %	Sat = 42 - 02.45- Long 124 17.05	
N ₂	62 <u>′</u>	Sat 42-02.8	surrounded by 7 and 1/2 faths 31-32 f 6
,	95	Cat 41 - 02 9	
		Long 124 - 18.00	
	2 %	Set 42 - 03.55 Song, 124 18.8	
	چ	Sat 42-03 65	
	e wal	Fong 124. 18 65-	
	Growing Kelp	124-18.3	1
	2%	Fat 42-02.5 Tong 124 16.5	in telp
			· · · · · · · · · · · · · · · · · · ·
• ,			IN the state of th

letting the shoulest exercing only in a particular of does ut enable the office to put sufficient information on the sheet to show that the spot in gustion has been ratifactorly developed a notable example of this is the 32 fallow sounding at pos 16-J. The 16 pfot heading the list on the precious page looks bod and the area between it and the 25 on the night is doubtful In the pearch for the sunken rock 610-m. S.W of a Spit only the thehodest sounding (42) was necessary and platted sounds It was decided not to plot the sounding line owing to the uncertainty of the fix at - K. there were see Page 350 Vol # & sounding 76 pages There is a decided displacement of the toponishing as shown on T-1227 and To · 4×25 from thete point towards the Both sheet are on the Horth american Datum The Poch awash on the 18' mendian West of O wack is about so miters S.W. the Sunkan rocks shown at the point on 5909 (Coupt loter devining time Chart 5909 shows 22 Boths and 34 Pothons in 42 and 64 the line of a line of the free survey.

next sively, the latter defiths being these of a line the free survey.

Sono 122 17.1 (See No 3 paragraph 6 review) Lee Olo 3 paragraph 6 review Chart 5909 shows 13 in lat 42.01.35. where by interpolations a theoretical defth of affinimately & fathour suits about 150 meters east of the point on the what is a 2 factions pounding. There is no development. between thise soundings. Shout 150 meters above the 12 sounding referred to above is position 96-a Vol #3 At frition Vixo. a - red (S.W. between O.Red and O.Vo "Breaker in line with Red) - The art from the the second states. boats fireture to ORed prairies over mich award mean Boat did E. D. rock inchors so that it may arean richer with a 7 foot tide (over)

have been given to the breaks red) prassed within a law meters These cuts at pos 139+ poo 140 locate the ek-awash alose to those) ocho which are shown on H. 12/2 a and gn Topo position of the small delet. Nat. 42 0015 as shown on the distance of the small delet. Topo (XX23) -The distance in about 50" (follow T4423) There are several large rocks or lare prots 200 m-314 of OVs which appear on the tops (KK23) but not on the part (have been added) There is a large roch or bare is but 100-notes 1/1 E of O. Shake on the Topo (xx23) This with the hear adder Three rocks are shown about 200 que Cost of OVIa There is a large rock or have of of sat 42-03.72 phone deen added)
There is a large rock or have of of sat 42-03.72 phone of the form / has been added) A Tracing has been prepared which shows the differences between this and previous surveys. A few particularly dangerous looking pourings have been transferred from about 1969 air green ink to the Tracing There are to be found plightly D. W. of Num and S. E of the Wharf in chetco cove. While she protracting of position and plotling of soundings was receleut, the succeedingly large number of more pounding Values plotted Together with the fast that important dongers shown on the the sheet were not shown and the omission of the keep symbols the specialing is considered Frain

Mount 75 Aprilers & & of the what is a & follow pounding pand a 3 and some of the fosh in francil.

All efforts to run down these poundings failed the lines win reploted again on the tracing and consisted with they book pleet, without result they are therefore all for disposition by high authority.

They are therefore all for disposition by high authority.

Report 70 be wheel after review.

(Report 70 be wheel after review)

DEPARTMENT OF COMMERCE

AND REFER TO NO. 11-DHM

U. S. COAST AND GEODETIC SURVEY

WASHINGTON

March 18, 1930.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4877

Winchuck River to Chatco River, Oregon and California

Surveyed in 1928

Hand lead soundings

Instructions dated March 13, 1928 (DISCOVERER)

Chief of Party, F. G. Engle.

Surveyed by R. W. Knox.

Protracted by C. J. Wagner.

Soundings plotted by R. W. Knox.

Verified and inked by J. Fleming.

- 1. The records conform to the requirements.
- 2. The plan and extent of the survey conform to the general and specific instructions, except that several critical depths shown on H. 1239, between Lat. 41° 59' and Lat. 42° 00' were not examined.
- There are not many cross lines. Those run cross well, and considering the irregularity of the bottom, the agreement of adjacent lines is good.
- 4. The information is sufficient for drawing the depths curves fairly completely.
- 5. The junction on the north with H. 4872 and H. 4863 is satisfactory.

The junction on the west with H. 4860 is satisfactory except in the vicinity of Lat. 42° 00' where there is a gap of approximately 200 meters.

The junction on the south with H. 4872 is satisfactory.

6. Comparison with previous surveys:

There are numerous discrepancies between the old topographic sheet T. 1227 and T. 4423. In general T. 4423 and adjacent topographic sheets shall supersede the old topography including offlying breakers shown on the old sheets. (See remarks under Nos. 6 and 7. Each of the latter has been examined and those which should be retained, if any, will be noted.

The following items are listed in the descriptive report and will be taken up in the same order.

No. 1. Group pf sunken rocks shown on T. 1227 in Lat. 42° 02' (1270 m.), Long. 124° 17' (1120 m.). There is no reference to these in the sounding record of H. 1212a and this party reports they were unable to verify them. (See statement on boat sheet.) It is considered probable that these rocks were sketched on T. 1227 and their existence disproved by H. 4877. They should be removed from the chart.

No. 2. An ll-foot sounding in Lat. 42° 02' (1320 m.), Long. 124° 17' (710 m.), least water found 21 feet. In view of the fact that the ll-foot spot on H. 1212s is plotted from rather doubtful data as to position and was searched for in 1928, it is probable that it was obtained in the vicinity of the sunken rock located slightly to the westward on H. 4877. The ll-foot spot should not be charted.

No. 3. The 2 1/2 fathom sounding on chart 5909, in Lat. 42° 02' (1060 m.), Long. 124° 17' (40 m.) was plotted from letter No. 467, 1910. On Blueprint 16,646 (1917) it is shown that the depth on this spot is 4 fathoms, which agrees with this survey (H. 4677).

On chart 5909 a 3 1/2 fathom spot is shown 200 meters, 163° from end of dock. This was plotted originally as 2 1/2 fathoms from letter No. 476, 1910. In letter No. 270, 1924, word was received that this spot had been despened to 22 feet in 1914. There is apparently no doubt of the existence of a 22 foot spot in this locality and it is believed that the correct location of this spot is given on H. 4877 as 160 meters, 145° from end of dock.

The 3 1/2 fathom spot on chart 5909, just northwest of the latter, was plotted from Blueprint 16,647 (1917) and it is believed that this is the same spot.

It is therefore recommended that these three soundings be removed from the chart and the present survey accepted.

- No. 4. The 7 1/4 fathom spot in Lat. 42° 02' (580 m.), Long. 124° 17' (330 m.) was verified from the records of H. 1212a, and should be retained.
- No. 5. The 9 1/4 fathom spot in Lat. 42° 02° (480 m.), Long. 124° 16° (1290 m.) was verified from the records of H. 1212a and should be retained.
- No. 7 These two sunken rocks, one in Lat. 42° 02° (700 m.),
 Long. 124° 16' (170 m.), and the other in Lat. 42° 02' (240 m.),
 Long. 124° 16' (150 m.), are originally from T. 1227. T. 4423
 does not show either of these and the topographer notes in pencil
 "can not verify". The hydrographic party also made a search for
 these without finding any indication of either. (See statement
 on boat sheet) The topographer often indicates breakers or sunken
 rocks when not sure of existence or location, merely for guide to
 hydrographic party. It is recommended that these two sunken rock
 symbols be removed from the chart.
- No. 8. The 3 3/4 fathom spot in Lat. 42° 01' (1550 m.), Long. 124° 15' (920 m.) was taken from H. 1212a. As a shoaler depth, 1 2/6 fathoms, was obtained at this point, no comment is necessary.
- No. 9. The 3 fathom sounding shown on Chart 5909 in Lat. 42° 01' (830 m.), Long. 124° 15' (550 m.) was verified from the records of H. 1239, and should be retained.
- No. 10. A sunken rock, which breaks in moderate seas at low water, was located on T. 4423, at the approximate position of the 1 1/2 fathom spot shown on H. 1212a in Lat. 42° 01' (1160 m.), Long. 124° 15' (903 m.). Chart 1 1/2 fathoms and add note, "Breakers".
- No. 11. The 2 2/6 fathom spot in Lat. 42° 02' (344 m.), Long. 124° 15' (1280 m.), was verified from the records of H. 1212a. It is marked in the records "Rk with anchored kelp", and should be retained on the chart.

The following rocks are listed in the descriptive report as shown on the old sheets, but not observed by this party:

(1) Rock awash. Lat. 41° 59' (881 m.), Long. 124° 13' (667 m.). The position of the 1 5/6 fathom sounding was verified from the records of H. 1239. The rock awash symbol is not shown on the old topographic sheet and no rock is noted in records of H. 1239, except rocky bottom. It is believed the symbol may have been added because of the shoal sounding. One line on this sheet is very close to this point, but no indication was obtained. This spot should have been examined. The 1 5/6 fathom sounding has been transferred to this sheet and will be

charted, without the rock symbol.

- (2) Two sunken rocks. One with a sounding of 2 fathoms, in Lat. 41° 59' (867 m.), Long. 124° 14' (240 m.) and the other with a sounding of 4 fathoms, in Lat. 41° 59' (1711 m.), Long. 124° 14' (612 m.). An exhaustive search was made for these in the records of H. 1239 but they could not be found. The statement in the descriptive report of this sheet that these were "not observed" is not sufficient evidence to reject them as this party made no hydrographic examination. Both spots should have been closely examined. These soundings have been transferred to this sheet, H. 4877, and will be charted with the sunken rock symbols omitted, as it was the practice at that time to add a sunken rock symbol beside a shoal sounding.
- (3) A sunken rock shown on T. 1227 in Lat. 42° 01' (640 m.), Long. 124° 14' (1040 m.). While no soundings were taken at this point, there is a note on T. 4423, "cannot verify" and also on the boat wheet, and the rock will be removed. Shoal soundings, shown on H. 1239, both east and west of the position of this rock have been transferred to this sheet.
- (4) Two groups of rocks, shown on T. 1227 in a position about 340 m. and 400 m. south of signal "Sam" on this sheet, are not shown on T. 4423 and were not observed by the hydrographic party. As an unusual amount of kelp was noticed in the vicinity, these rocks will be retained on the chart for lack of other evidence.
- (5) A sunken rock symbol shown on T. 1227 in Lat. 42° Ol' (1070 m.), Long. 124° 15' (310 m.), is marked E.D. on T. 4423. This rock will be removed from the chart as the 1 5/6 fathom sounding obtained south of this is virtually a sunken rock.
- (6) A group of sunken rocks shown on T. 1227 in Lat. 42. 02. (1770 m.), Long. 124. 17. (1360 m.) will be removed from the chart as both T. 4423 and this sheet (H. 4877) locate a rock awash about 60 m. S.S.W. from the above group, which is thought to be the same spot.
- (7) On T. 1250 there is a bare rock or small islet shown in Lat. 42° 03' (1080 m.), Long. 124° 18' (560 m.). This is not shown on the other old topographic sheet, T. 1227, and is not indicated on T. 4423. The preponderance of evidence is that this does not exist, although this can not be stated with any certainty. The rock will not be charted.

Some soundings have been transferred in color to this sheet (H. 4877) from both H. 1212a and H. 1239. These will not be listed in this report, but may be accepted for charting.

- 7. The usual amount of field plotting was done by the field party. The protracting was well done but in plotting the soundings, fractions were not expressed in conformity with the Hydrographic Manual.
- 8. Character and scope of survey:

In the vicinity of Chetco Cove this survey is fairly complete. South of Lat. 42° 02', while the work is within the limits of the instructions, there are numerous shoal indications which remain undeveloped. Just north of Lat. 42° 00', the work was carried only to about one-third of a mile of the shoreline.

- 9. While the chief of party does not consider additional work necessary, there are many spots which could be further examined. The most important of these are the 2 fathom and 4 fathom spots, between Lat. 41° 59' and Lat. 42° 00' and west of Long.124° 14', both of which are more than a mile off shore.
- 10. Recommendations about rocks and shoals were submitted to and had the approval of A. M. Sobieralski.
- 11. Reviewed by R. L. Johnston, March 17, 1930.

Approved:

Chief, Section of Field Records (Charts)

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

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. 13

REGISTER NO. 4877

State OREGON AND CALIFORNIA
General locality SOUTHERN OREGON Chatco Cove
Locality BROOKINGS - Winchuck River to Chetco River
Scale 1/10000 Date of survey October ,1928
Vessel Str. DISCOVERER
Chief of Party F. G. Engle
Surveyed by R. W. Knox
Protracted by C. J. Wagner
Soundings penciled by R. W. Knox
Soundings in fathoms
Plane of reference MLLW
Subdivision of wire dragged areas by
Inked by Cenning
Verified by 26-1929
Instructions dated March 13 ,1928
Remarks:

Celd'I Work of 1934 (Cheter Core, Oregon) Inspection Report.

- 1. Fild Protecting is excellent
- 2. Plotting of soundings is good.
- 3. Cutinim:
 - (a) There are no tretain characteristics on this North which fast may be of minor importance. (b) no geographic datum was approach to the wheet.
- 4. Recommendation:

The plotting of rolps on this sheet has been missid. The sandings may therefore to inher healy with-out refuence to the randing records.

Harlder hung

Section of Field Records.

Supplementary Report - H. 4877a.

Surveyed in June 1934.

Surveyed by - G. C. Jones.

Chief of Party - C. S. Jones.

Verified and Inked by - E. R. Behn.

Shoal soundings of H. 4877a were transferred to H. 4877, surveyed in 1928, Chief of Party F. G. Engle. The junction was satisfactory with one exception. Position 36a (blue) of $3\frac{1}{2}$ fathoms when transferred to H. 4877 cane in conflict with a sounding of $7\frac{1}{2}$ fathoms, immediately preceding position 6g (green) on H. 4877. The location of this sounding is approximately lat. $42^{0}02^{\circ}.5$ and long. $124^{0}17^{\circ}.1$. The $7\frac{1}{2}$ fathom sounding was rejected and the $3\frac{1}{2}$ fathom sounding retained.

Submitted by - E. R. Behn.

Sept. 25, 1934.

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 4877a (1934)

Chetco Cove, Oregon
Surveyed in June 1934
Instructions dated May 29, 1934 (Director's telegram to
Inspector at San Francisco)

Hand Lead Soundings.

3 Point fixes on Shore Signals.

Chief of Party - F. H. Hardy.
Surveyed by - G. C. Jones.
Protracted and soundings penciled by - G. C. Jones.
Verified and inked by - E. R. Behn.

1. Purpose of Survey.

The purpose of the additional work of 1934 was to further investigate shoalings and also to furnish a check on a local survey of the area.

2. Condition of Records.

The records are clear and legible and conform to the requirements of the Hydrographic Manual, except as follows:

- a. No bottom characteristics were recorded.
- b. No Descriptive Report was submitted. However, several letters from the surveyor, which are filed under Field Examination No. 98 of 1934, cover most matters of importance.

3. Compliance with Instructions for the Project.

The instructions called for a wire drag of the area. This was not made because launches were not available at the time. However, some hydrography was accomplished. Subsequent to this work a wire drag survey (H=5889-1935) of Chetco Cove has been made.

4. Results of Survey.

The hydrography on this survey consists of a few sounding lines and an examination of several shoals. The surveyor was handicapped by being forced to use a very unwieldly craft. A copy of the results of this examination has been furnished to Senator Steiwer.

Reviewed by - R. L. Johnston, Dec. 16, 1935.

Inspected by - A. L. Shalowitz.

Examined and approved:

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

Chief, Section of Field Work.

Chief, Division of Charts.

Chief, Division of H. & T.

HYDROGRAPHIC SHEET No. 4-877

The following statistics will be submitted with the cartographer's report on the sheet:

> Number of positions checked . 201 Number of positions revised . . . 7 Number of soundings recorded .3073 Number of soundings revised . 400 +

Note-

Number of signals erroneously

plotted or transferred . None The exceptionally large number of vivided soundings is due to the Officeral disregard of General instructions relative to the plotting of fractional fathoms - some, of course, an due to disrepancies in time

Cartographer: