FORM 504 DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY
State: SW Alaska
DESCRIPTIVE REPORT
Hydrog. Sheet No. 4391
LOCALITY:
Alaska Peninsula
Isanotski Strait
1924.
CHIEF OF PARTY:
R.R.Lukens

DESCRIPTIVE REPORT.

Hydrographic Sheet

Sheet " 🂆

ISANOTSKI STRAITS

S.W. ALASKA

Str. PIONEER

R.R.Lukens, Comdg.

1924.

<u>LIMITS</u> This sheet which is on the scale of 1; 10,000 embraces the southern portion of the narrow pass between the Pacific end Bering Sea known on the charts as Isanotski Straits, but always referred to locally as False Pass.

CONTROL The survey is controlled by a triangulation scheme carried up the pass in 1923, from the old triangulation in Ikatan Bay.

METHODS The hydrography was done from the steam launch # 117, in charge of Mr. A.J. Hoskinson. In the shoal parts, the hand lead was used, while in the deeper areas, a hand sounding machine was used. Hydrography here is very difficult due to the strong current. The officer in charge was inexperienced, as he had never before had charge of a sounding party.

An automatic tide gauge was maintained at the cannery dock, and all soundings were reduced from this gauge. The tide is very erratic and complicated here, due to the fact that the pass is open to both large seas. The automatic gauge has now been in operation for two summers, and should afford data for interesting studies.

As could be expected, the currents in this pass are very strong. At their strength during the large tides, it is estimated that they attain a velocity of 8 knots off Whirl Point. A vessel must steam 11 knots through the water in order to pass this point when bucking these tides. Off the cannery dock the currents attains a maximum velocity of about 6 knots. going vessels should enter the pass only at slack water. In former years. this pass was considered unsafe for large vessels, but in recent years some large vessels have been berthed at the cannery dock without incident. 1924 an oil tanker over 400 feet long, discharged oil at the cannery dock, and Due to the limited size of the dock 200 ft departed without accident. along the face) it is hard to hold large vessel at the dock during the strength of the current. Currents of 4 to 5 knots have been observed running past the face of the dock.

WHIRLS There are usually strong whirls and eddys off and to the esthward of Whirl Point. A full powered steamer of medium length can negotiate them without danger.

Due to the irregulartites of the tide here, it is TIME OF SLACK WATER. hard to predict the times of slack water. It apparently has no relation to the times of high and low water in the pass itself. It does, in some cases bear considerable relation to the times of high and low water at During the current season, the time of slack water off the dock was recorded at all times that the ship was in port. As a result The mean of these give a factor about 125 observations were obtained. of 7 Mours and 36 minutes to be added to the times of high and low water This will give the approximate time of slack water in 150th at San Diego. Local navigators use 71 to 8 hours after San Diego meridian standard time. This confirms our observations. and say that it usually hits pretty closely. During the flood, the current runs North and during the ebb it runs South.

KABUCH POINT forms the eastern entrance to the pass. It is bold and precipitous. A reef extends off this point which makes it preferable for vessels to favor the western side when entering.

WHIRL POINT is rocky, and has small ledge of rocks extending off it. There is deep water close up to the end of this ledge, and the cannery tenders pass within a few feet of it when bucking the tide northbound. With the ebb tide the current sweeps directly across the channel from Whirl Pt.

STONEWALL is a prominent point with vertical rock cliffs. A reef extends about 200 yards off this point. It bares at half time. Small vessels sometimes strike this reef when hugging the shore in an attempt to keep out of the current.

PALSE PASS CANNERY and village. This place is a United States postoffice and has a good general store open the year around. It is known officially as the FALSE PASS POLTOFFICE. The main fock is 200 feet in length, with 30 feet alongside, while there is a small oil dock with 13 feet alongside. This oil supply is a private one, and there is none for sale except by prior arrangement.

ISLAND ROCK is a small rocky islet directly across the channel from the dock. It is about 10 feet high and has deep water close up to it on the channel side.

BIRD ROCK is a small rocky islet about 15 feet in height, and is a nesting place for gulls and other birds.

ANCHORAGES A good anchorage may be had just N.E. from Bird Rock in 10 fathoms with sticky bottom. There is an indifferent anchorage in the bight just north of the cannery. The bottom here is gravel and shells, but by getting in close, the strength of the current can be avoided. There is a good anchorage off the Palisade Cliffs at the eastern side of the entrance to the pass. This anchorage is good in northerly weather only

R.R. Lukeus Chiy of Party.

STATISTICS SHEET

for

HYDROGRAPHIC SHEET ---- FALSE PASS

Date (1924)	Letter	Volume	Positions	Soundings	Stat. Miles	Vessel
July 9	a	1	146	227	12	Laumoh #117
July 11	þ	1	152	244	11	17
July 12	G	2	106	202	4	n ·
July 14	d	2	97	159	10.5	78
July 16	е	2	108	183	13	н
July 16	ə	3	47	95	7	н
July 17	f.	3	94	161	13	19
July 19	g	3	73	151	7	**
July 22	h	3	31	51	3	**
July 23	j	4	47	72	10	r t
		Totals	901	1545	905	

Hydrographie Sheet No. 4391 S.N. alaska.

The lines of this survey run across Current of from 6 to 8 knots. The lines are very crooked and no doubt soundings are too deep. I no cross lines to check. Numerous both overdeveloped and underdeneloped areas appear. Additional work appears to more fully denilop Protracting by teels Party generally accurate in the deep water portion of the sheet but un accountable errors were found in the ushory work. Boat sheet of little are in verification as it has no projection. Position numbers and letters too large and not of a suitable color. Lines connecting positions alt to deep. all positions not immlued. Signal names, in some vistances for removed from Signal - Plotting by Field Party generally accurate but to few somdings entered in the closer developed lines. Records generally good but no Boat head by Compans or Change in Course recorded. Numerous check had to be made by reason of this omission.

John D. Jamey. Feb. 12/20 and refer to No. 4-DRM

DEPARTMENT OF COMMERCE

U.S. COAST AND GEODETIC SURVEY

WASHINGTON

March 19, 1925.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4391

Isanotski Strait, Alaska Peninsula.

Surveyed in 1924.

Instructions dated April 11, 1923 and February 8, 1924.

Chief of Party, R. R. Lukens.

Surveyed by A. J. Hoskinson. Protracted and soundings plotted by A. J. Hoskinson. Verified and inked by J. D. Torrey.

- 1. The records are faulty in that bottom characteristics are omitted on many pages and, when given are often not at the top of the page. Compass bearings and changes in courses of sounding lines are omitted throughout.
- 12. The plan and character of development conform to the General Instructions.
 - 3. The plan and extent of development satisfy the specific instructions except that no check lines were run.
- 14. The sounding line crossings are adequate, considering the uneven character of the bottom.
- The information is sufficient for drawing the usual depth curves.
 - 6. The field party completed the usual field plotting. There were a number of errors in protracting, all positions were not numbered and connecting lines were deeply indented in the paper. Position numbers and letters were much too large and carelessly drawn. Yellow is the most undesirable color to use as it is indistinct on the drawing, but photographs like black ink. Names are too far from the objects to which they apply. In the shoaler areas only part of the soundings were plotted although there was ample space to show all of them. Several anchorages are mentioned in the descriptive report but their locations were not shown on the smooth or boat sheets.
 - 7. The junction with the adjacent work to the northward is adequate.

- 8. The plan of the survey is defective in that all sounding lines are normal to the axis of the channel. It has been demonstrated that accurate soundings cannot be obtained when crossing currents of 3 or 4 knots. As the currents in the area of this sheet amount to as much as 8 knots it is practically certain that all soundings except those done at slack water or close inshore are greater than the true depths. An additional objection to lines across strong currents is the impossibility of holding to the desired course. The results of this survey clearly show this fact.
- 9. The spacing of the sounding lines average 200 meters with numerous openings of 300 meters. The survey cannot be considered a satisfactory development of an uneven bottom like the area covered by this one.
- 10. The character and scope of the surveying and field drafting are fair.

11. Reviewed by E. P. Ellis, March, 1925.

13 13

C.

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in

4 volumes of sounding records for False Pass, S. W. Alaska

HYDROGRAPHIC SHEET

4391

locality: False Pass, S. W. Alaska

Chief of Party: R. R. Lukens in 1924
Plans of reference is mean lower low waters
7.8 ft. on tide staff at False Pass, Unimak Id., Alaska.

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 beginning of day's work.
- 5. Soundings (whether in feet or fathoms) not clearly shown in record.
- 6. Leadline correction entered 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 tubeused not stated.
- 11. Sounding tube No. entered in column of "Soundings" instead of "Remarks".
- 12. Legibility of record could be improved.
- 13. Remarks

A ...

Chief, Division of Tides and Currents.

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The finished Topographic 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 (F) 4391 State SW. Alaska Surveyed by . . A.J. Hoskinson . Date of survey . . . 1924 Squndings in fathoms at LLLW Heights in feet above Tdde gauge at False Pass Cannery Contour interval . . . feet. Positions and soundings plotted by A.J. Hoskinson Inked by J. Il Torrey . Lettered by J. Il. Torrey . . Verified Records accompanying sheet (check those forwarded): Photographs, 4 vol sdg records
Descriptive report, Horizontal angle hooks, Field computations, Data from other sources affecting sheet

90ANNURRAL 18 BLEDG 02170N

Remarks:

- //c	rm	275
ьd.	Mar	, 1929

(SPACE FOR ARCHIVES STAMP)

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

L.O. Colbert Director.

HYDROGRAPHIC SHEET No.

SOUNDINGS

Locality:

0.8 miles SE of False Pass Cannery Rock in
Isanotski Strait
Boat M.W.B.
Vol. No. / Yols.
From June 7, 1941, Pos. 1a
To June 7, 1941, Pos. 11.a.
Statute miles of sounding lines
Number of soundings 32
Number of positions
19#/
Name of Vessel:
Discoverer
Chief of Party:
L. O. Graham_
Liout Comdr. , U. S. C. and G. Survey.

DEVIATION TABLE

(FOR AREA COVERED BY HYDROGRAPHIC SHEET)

ESSEL
ATB
ATITUDE
ONGITUDE
VARIATION (CHART NOOR OBSERVED)

SHIP'S MEAD	DEVIATION
COMPASS	+ EAST
	- WEST
Ü	· '
0	
15	
30	
45	
60	
75	
90	
105	
120	
135	
150	
165	
180	
195	
210	
225	
240	
255	
270	
285	
300	
315	
330	
345	
360	

INDEX

DOCK TAN 4	Name of object		PAGE	NUMBER OF CUTS ON PA
	DOCK		3	
			4	
	·			-
		İ		
		:		
			ļ	-
	: :			<i>.</i>

i .

INDEX			2
HYDROGRAPHIC INFORM	ATION		:
SUBJECT	PAGE	NUMBER OF REFS. ON PAGE	
outside 4			
SE Corner of Connery DOCK of False Pass			
v. 3.			
outer tangent of priminent			i
of Stone wall.			
1			
			!
			:
	}		

- : :

SOUNDINGS Southwest Alacke Year 194/ Month June Day of Month

				CORRECTIONS			REDUCED SOUNDINGS			Ç\$ [T		
	TIME MEA 150	SOUNI //		LEAD LINE	SLOPE	Ren. FOR TUBE	FII	Files On		OFFK OFFK		ĸ	
POSITION NUMBER	MER	-	-	Tunts Ecno	l		PEET	типъ	PMET	TENTHS			
		PATHOMS	PIET	PER? FRTHOMS	FACTOR 74/7HOME	FEET FATHOMA	*******	PEET	FATHOME	7 max			
	A- AR- P-			. 04		4.0	00.		1				
	-	ë ∥∠.					0 gr 5£	0 F	10	· 1			
		150		0.8		!		F I					
==	 hor i4	Fal	د <u>ح</u>	255	COM	recy	1	CK.			_		
10.0	harge C. FVer	II .	S.	ktant 7 2	2	-							
1 4	rele C. P. rele L.C. John	sm	S	etant 72	9	ļ				" . . 			
Pla	ting w. we d	(E)		otracter UCK	ļ	<u> </u>	 -	ļ	 				
Aut	nonal comme	2 4	{ gau	ro No.	Į								
And Pfs	n-portable	[.Je	استدأ	ļ ¹	46	ng ca	يە رىب	e.		.			
	! 	ļ	ļ .	!	L	, *···	ļ	<u> </u>	<u> </u>	<u></u>			
\cup	8:25:50	72	3	1	1		15						
			ŀ		1				ĺ				
	يه 28.	2	3	1			15	<u> </u>					
	25. an	2	3				15						
							İ]					
	!	1					·	1	·				
[2	25	2	3	¥	ļ	 	15	† · · ·	1				
•		-	Γ.				1 ~	ļ					
	.55	ہ ا	3					· ·	1				
	2 9.75						/5	 -	†	 · · − 			
	47.75	- A	3		l	1	15						
		1				1	1		1	} [,		
		 	-	 	┼	├	 	ļ,—	 	 	ŀ		
Ü	29.20	2	3.	1			15						
]		1			1						
	. 34	+	<u> 3</u>	ļ	↓	<u> </u>	15	1			L		
	-50		3	Ì		.	15				ļ		
	20.30	تہ	3.				15	1 .					
	↓	Ì	'			L		<u>L</u>	<u>L</u>		L		
U	30.20	17	2	1		1	8						
	!	1		1			1	1	1		ľ		
		ļ	i	ļ				-	1	1: "			
	1	1	 	1	T	1	1	T	Τ		Γ		
		f	i		1		1	1	1				
		1	İ				-	1					
(4	32.04		سن ا	+	+	† -	17	 	T	†			
	1 300	4		•	1		il .			1	-		
	1	1		Ī		1	4-4-3				-		
	 -	+	+	1	+	+	+	+	+-	+	┢		
	-	ŀ				.			1				
			1			.		ļ					
		į	ļ		1	↓		+	₩	 	┞		
		ļ				1	1						
				į		-			1				
	i	Ī	1	Ø	1	1		ユ _	_	1 .	Ē		

Bootused Port whelebook : Octor

1177			y
100	! ·	*** -	
'-	HEADING	ANGLES AND RANGES	in the Market Control of the Control
	BY	BEARINGS	
BOTTOM	- 00-0 -	LOG READINGS	REMARKS
. 64	CONPASS	ENCINE REVOLUTIONS	
	h		
		1000 A. A. S. A. A. A. A. A. A. A. A. A. A. A. A. A.	· '
.,	ſ	A	
		V	Jak Brancha L. I
T.10	NILT CA	E CORRECTIONS	Folkering Shops them hound
,			Franklis SDELLWOOD.
Mark of	Ti truck	frieth Correction to	STON WITE SIZE CHELL SOUTH
Trust as Co.		ndard : goundrugs	
1000 100	47 PA	L : L-M	
ы	(\ · / =	; 1. : :::::::::::::::::::::::::::::::::	
			weather: - Clear
			wind ; - case
do: 16	1 /		to the foreigner
extants	! !	<u>{</u>	Sea :- Smooth.
	i . / .	<i>F</i>	
41ack	· 🐧 🗡	! \	
Leaning con	petti elis en 🌣	50	Approvinatoly Stack words.
Sheave No.	tester (_ 18	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
			THERE I KIND LANG SALE WAS ALL
Larre	ctions on pag	•	
			is some taken in Sterne of 3 = 1 word,
	. 4	7001/ //2	1
ţ	1	DOCK 43-41	Soundings Around Stranded.
1	j	MEAR	S. S. DELLWAD D. D. mi SE F. E.
1	l		Handard oct
	701	Whit1 2t. 96-03	* Running along Port or oft.
			,
]			home sike of SELLWOOD.
	İ		
1.			1
I '			T
		L	
	(2	DOCK 45-05	* arrechips
		1Dock 95-05	inedships
ì	}		,
		NEAR	
1 '	i	01.55	L
•		CHFF 78-34	1 '
1	 		
Ī			shirting sian alongside Ship.
j.		i	the second of the second state and state of the second
· •	i		- · · · - · ·
l.			l i
	7.5		
	(2		@ Bridge of DELLWOOD.
1	!		to some of necessary.
	İ	l: \	/ '
- ↓ .		-)	
		77-58	
	-	7.1.58	ļ
'			
1			
• [į
,	Í		, -, -, -, -, -, -, -, -, -, -, -, -
.			
	· · · · · ·		· · · · · · · · · · · · · · · · · · ·
	1 (4	GARD 27-20	" souly to heart & Bow.
ļ .		「ひだれン・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	I was threat & Bew.
		TACK	1 0
		DOCK .	Heavy Help. Shoul
1		NEAR 47-37	1 1 1/1/1/-
	 	N - U - 7 /- 3 /	IN about of Bour
			, , ,
.		i	ł .
1		i	P
ļ	J.		Running back to storm.
.1	ì	I	{ ' i
		<u> </u>	<u></u>
ı	[5	Dock 43-51	* Talen at Storm -
f			Talen of Storn
1	i	NEAR	1
1	!	145310	المستخلف الأساعة المالية
1		CLIFE 79-00	1
\rightarrow	<u></u>	11-00	<u>'</u>
1			1
1.			1
İ	!	1	
	i	_	1 <u></u>
1 .	!	·	
	-		
	!		
1.	I		L
1.	I		[
	I		
	I	L i	

SOUNDINGS

Year 19 4/ Month June

Day of Month

1				COMRECTIONS			REDUCED SOUNDINGS				ļ
POSITION KUMBER	TIME MER 2 5 - 5	SOUNI	DINGS	LEAD ;		R _I III.	P)	.	OF	n _	
SSE :	MER.C. Y. M.			Tymes Eciro	SLOPE	RED. FOR TIDE		TOTAL:	7631	CT , MARINE	
		PATHOWS	FREET	PERT FATHOMS	FACTOR FATHOUS	FATHOUS	THE PERSONS		PATHOME	F	
	A B. 4	.~.	_								
	9:14 30	2.	2				74			١.	: -
	1 1	Z- :	2.				14			· .	1
	70	2. 2	3				.15				-
	19.00	٠	4				16	. !			
									:		١
: 6	-1						1.5				┝
~	11:13 30	22	.3			ĸ	1.50	1 1 d	! !	·	
	<i>⊢</i> €	,	72			****	15				
	<u>المن لدة</u> (من لدة		2				14				-
	:p)		ī				/3				
			, i				, ,				ŀ
(1	- 70	2					12				
	.41	2					12				_
	43	/	5		_		11		[
	26.39	'/	5				//				
	22.3	1	4				10		<u>.</u>		
	. ".0	1	ĵ,				۾ ا		1 .;		
	ļ	•				[
<u></u> ,				L	L.		L	<u> </u>	 -		Ĺ
(ž	7-9-0	10	3			(9	1			ļ
				†		ļ			İ		Ċ,
	(4)	1	!	<u> </u>		<u> </u>	7	<u> </u>	<u>. </u>	ļ,	L
	14.5	-	4	1		:	7	ļ			
					i		1		1	-	
	<u> </u>	.	<u> </u>	<u></u>		: 	ļ	 		ļ	:
्र	2.6:18		5	Į.			5				
		Í		-			1				
	ļ	← —		 	ļ.——					⊢ -	\vdash
	i						1		1		
				ŀ	į		ij		:		
. 10	2 7: 20	-		-	<u> </u>	 -	<u> </u>		<u> </u>		-
ت.	2 7: 20	1 -	5	1			5.		ļ		
				1					H · ·		1
	 	 		ļ .		 			i	 	i
	1								1		
							-	1	1		ľ
	 	1			 	 		 -	 		
			1						į		
	l	Ŀ	l	L.: .	j	<u> 1</u>	1 -	i	<u>ا</u>	<u> </u>	ŧ

Sublosality
False Pass - Nicholas Pt.
Boot weed ... Mark Wholebook amount

Souidnuos ; «A-6-doy

HEADING BY COMPASS ANGLES AND RANGES
BEARINGS
LOG READINGS
ENGINE REVOLUTIONS DM-IT
REMARKS No.67
server term in
York services BOTTOM Relp. T87 1 133-10 5 ROCK Tide Staff reading @ L.L.W. on staff. P.S. Harris Lock. reduction of these whirts which one class statistics on Day ... No. of Sudge: 32 land/inc. No of Positions:

Form #76

SOUTH WEST ALINEA

SOUNDINGS

Year 19

Month

Day of Month

				CORRECTIONS			REDUCED SOUNDINGS						
8≅ TIME		SOUNDINGS		I FAR		, fee		OFFICE					
POSITION NUMBER	MER			PAGE	NAMES AND SERVICES		BLOPE	RED. FOR TIDE	<u> </u>	TENCHS	PECT	rem:	
Ž.	\		N.	PATHONIS	TEST TO STATE OF THE PARTY OF T	FEIT PATHENES	FACTOR FATHOMS	FEET FATHOUS	PAINCES	FILET	FATHOME	700	İ
	h.	m.	3 .	-		JADADOS	FATHOUS	FATROMI					_
	İ			1		j				:	j	! ;	:
	İ		15	1					!	i		.	
				.l		<u></u>				<u>.</u>	: •		<u>.</u>
						·			į	:	-1 -1 -1 -1		
				1		<u>"</u>			ļ			! !	
				1		i r :			i	!	j		
				ļ	-,	:				-	<u></u> -	· - · - ·	-
						l	. ;	:		ĺ	ì	! ;	į
						<u> </u>			i		1	,	ļ
				L		<u>i</u>				<u> </u>	<u> </u>	L	!
						ĺ		:		į	i H		
					:		` '				<u>'</u>	ĺ	į
				ŀ					•		1		1
				· -·-	•	ļ					<u></u>	 	<u>+</u> -
	;					l				i	ļ		į
				İ		i			-	İ	+		i
				<u> </u>		<u> </u>		i 		<u>. </u>	!		į.
							!			T			
				1				i :	•		•	!	į.
	!			ŀ		ł	;		•	:	Ŕ	:	
				9			.	· • - · · · · · · · · · · · · · · · · · ·	r			4 1	# -
	İ				;	į	i	İ	 -		.i		
						ŀ	į				i S		
							į			:			
	ļ-					!	!	!	<u></u>		 	†	
						į			į			1	٠
	!			1			! !		ľ		i	:	
	·						: +		<u></u>		‼ ∔		.
						ŀ					i	1	ŀ
	:					į.	:						
	•				,		!	• !				-	
···	į -	٠.		···-		·	 -		; 		 		ļ
	}					ķ	İ	•	i. H				i
	ĺ				,		:		Į		į		
				ļ			!		L		<u> </u>		
	ļ					i	ĺ				į		
	ļ			[,		!	(:			l	1	
	İ			ŀ	•		•		ģ			1	İ
	ļ			¥	•	 	<u> </u>	 			ļ —	 	·
	į			7			ı	i	,		ļ		
	ŀ			1			i						
	l			1	:	I			<u>.</u>		<u></u>		ļ. :
					. –	Ī]			[1	
				gi L	•	1		[•	-	! - -	!	4
	1			-	1		:	İ	1			i .	i
	Ļ			<u> </u>		<u> </u>		!	}	-			: -
	į			į		į			:		F]
	İ			1			: 						.1
				r			:	1	į.	1.	7		11

False pass Milles pl 20 MIGNOCE
Boat used Por wholevol And ; a day

	BOYTOM	HEADING BY COMPASS	ANGLES AND RANGES SELECTION OF SELECTIONS SELECTIONS SELECTIONS SELECTIONS SELECTION OF SELECTION OF SELECTION OF SELECTION OF SELECTION OF SELECTION OF SELECTION OF SELECTION OF SELECTION OF SELECTION OF SELECTION OF SE	TERMONE REMARKS 1832
	•	r	a He said	soly abrigado looking sor titodel opock . Wo
		 - 	· · · · · · · · · · · · · · · · · · ·	Johns Syla for instruct.
				soly taken action 1088 from 5 id of ship
· <u>·</u>	-	. (1	55-29	
		- -	5 97-28	584 gras Ship side
	-			a rum y Bow
		: 	51-47	
• 10			5 99-48	<u> </u>
_		7	51-06	15 grave stom of
_	+		99-5	alujo.
20-a		<u>.</u> پ	70.1 105-08	
-			ROCK 42-02	
	/			4.7.5.9
	1		<u>] </u>	<u> </u>

SOUTHWEST ALASKA

Year 19.4 | Month June Day of Month and 7

		90UNDKHG\$			RRECTIO	is.	REDUCED SOUNDINGS				
₹#	78МЕ Мек. <u>/6/2</u> 			LEAD LINE	күй Айс С	REEX FOR Table	PRO YE DIRECT			ncas .	
POSITION RUNGSER				Tunes	SLOPE	Tink	PREST.	телни -	FEET	TUNH	
X=	л	PATHOMS	78EY	FEETO PATHONE	PACTUR FATMONS	PEEY FATHOMI	PAPELONS	PEZT	FATHOUS	1507	ļ.,
1	A. R. L			PATHONS	LYLengt	FATHOMI	-	<u> </u>	_	-	`
(<u>;</u>	9:29:30	[/]		Ì			طُ			1	
	, i									÷	
										}	
							,		_		Н
				į				,			
		1	,				1				
	9-40 30	2	5 /	et TAFF							
	2 40 90	71	pe s	7477	2000	ma	N.O	oce.	Į.		1
		Ca	روده	1 50	Se F.	کنه	i				
		L					ļ				
									i		
											٠
	į									i	
	[-			\vdash		_	\vdash	 		\vdash
	Ì					1			!		
									l		
						·			I		
											si.
		}				-	ŀ				,
] - [1			-	Ī
		<u></u>					<u> </u>			<u> </u>	
				ľ	1			Ι .			
				H				1			
			ļ	ļ		ļ	 	 	<u> </u>	·	
				1.			Í	1	I		'
							į	1			
				H	Ì			1 **		1	1.1
		{ ;		 -	-		₩	\vdash	╄—	 	H
											١.
				1]	l .		ľ
				1			1				1
		†		 			t	 	<u> </u>	 	-
	l			}			l			1	
		1		ļ			l		Į.		ŀ
		l		<u> </u>	l	L	L	<u> </u>	L		
	1										[
			İ	Ħ		i J	l .	ļ		1 '	Ī
	-	ł						· ···		576	· ·
	<u> </u>	 	ļ	} -	ļ	├- —	ļ	 		 _	ļ
			11.00			<u>"</u>					1-
10°					Ι΄		ji y	1			1
	 	!	 	1	· · · ·	 	-	! 	-	\vdash	t
							F				
	1	Ī		1							
,							1		1		ĺ
	1	1		1	†			1	ļ	 	T.
	i						ŀ				
	1	1		1					↓ .		
	1	II .	ı	II .	1	1		1	II.	1	II .