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Department of Commerce and Labor  
COAST AND GEODETIC SURVEY

Superintendent.

State: *Alaska*

DESCRIPTIVE REPORT.

*Low*

Sheet No. *3092*

LOCALITY:

*Knight Id. Passage Pt.  
to Johnson Bay*

1910

CHIEF OF PARTY:

*Gilbert T. Ride*

3092

DESCRIPTIVE REPORT

to accompany

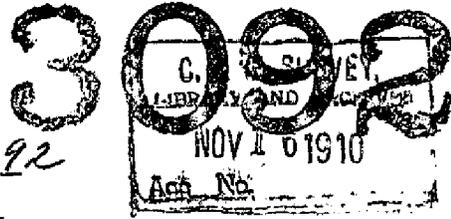
TOPOGRAPHIC SHEET NO. 3092

PASSAGE POINT TO DRIER BAY

KNIGHT ISLAND

ALASKA.

SEASON 1910.



Gilbert T. Rude, Chief of Party.

A. M. Sobieralski, Topographer.

The Topography on this sheet extends from Passage Point at the entrance to Louis Bay, to a point about three quarters of a mile North of Rocky Point, the entrance to Drier Bay.

The coast is bold, rising to elevations of 800 to 1000 feet half a mile from the shore. A thick fringe of trees skirts the shore, while higher up, grass may be seen among the trees, and in many places dark colored rock crops out, sometimes forming steep cliffs. Further inshore is a range of mountains from 1600 to 2000 feet high, mostly bare and precipitous.

The shore is very irregular and shelving, with many rocks, reefs and islets lying off shore. Many bays and coves indent the shore.

HERRING BAY

Herring Bay is about four miles long, from the prominent point at its entrance to the head of the South arm. It is a little over a mile wide at the entrance and broadens out to a width of about two miles. The West shore of the Bay is steep and regular, but the East and South shores are more shelving and indented by several arms. There are numerous islands along the shore. In the middle, about one and five-eighths miles in a S E x S(true) direction from Herring Point, is a rock about four feet high. About one and one-half miles S. of Herring Point and about 150 yards off the West shore of the Bay, is a patch of rocks covered at high water.

On the East shore of Herring Bay, abreast of Herring Point, is a cove about three-eighths of a mile long with an entrance about one-eighth of a mile wide. Just North of it's entrance is a small wooded islet, with a rock, bare at low water, lying about one hundred yards in a N E x N(true) direction from it. A prominent, rocky islet about twenty feet high lies off the entrance to this cove.

About half a mile south of this cove is another. It is about five-eighths of a mile long and a quarter mile wide, but the entrance is very narrow and closed to all but very small craft by a number of rocks. A reef extends about one hundred and fifty yards in a Southerly direction from the point five-eighths of a mile Westward of the entrance to this cove. Two bare rocky islets lie three-eighths of a mile off the point at the South end of entrance to this cove.

The three wooded islets near the entrance to the Southeast arm show very prominently from off Herring Point.

The Southeast arm is about one and a quarter miles long and about three-eighths of a mile wide. At the head of the arm is the property of the Crown Copper Company, now (1910) abandoned, although some of the buildings are still standing. The East side of the arm is high, steep and bare, while the West side is low and covered with grass and moss. Several waterfalls are found on the East side of the arm.

The entrance is narrow and a reef, bare at half tide, makes off about one hundred yards in a Northeasterly direction from the point at the West side of the entrance. A rock bare at three quarter tide lies one hundred and fifty yards off the point on the West side of the arm, three-eighths of a mile Northwestward of the houses.

About five-eighths of a mile from the entrance to the arm, another arm makes off in a S W x S(true) direction for about three quarters of a mile. On the East side, three-eighths of a mile from it's head is a waterfall about forty feet high, which connects with a lake about one and a quarter mile long and a quarter mile wide.

On the West side, about five-eighths of a mile from its head, is a narrow passage obstructed by rocks. A narrow passage, bare at low water, winds through the low land between this arm and the Bay.

The South arm is long and narrow. The sides are steep, of a uniform slope, and heavily wooded. At its head is a low divide which separates it from one of the arms of Lower Herring Bay. A mountain, 1600 feet high, on the East side of the arm, is conspicuous for its regular conical shape, but shows only to the Northward.

At the entrance to the South arm there is a group of wooded islets. A rock bare only at low water lies three eighths of a mile S W(true) from the North point of the largest of these islets, and about two hundred and twenty-five yards off shore. Between this islet and the one just East of it there is a rock bare at low water. The Southernmost of these islets has rocks extending off its Southwestern and Northwestern ends. On the West side of the arm, about two and a half miles South of Herring Point there is a shingle beach. Rocks extend about two hundred and fifty yards in a Northeasterly direction from the East end of this beach.

Herring Point is the North end of a long, narrow, wooded ridge, about 1000 feet high. Rocks bare at low water extend about one hundred yards to the Eastward.

About one and a half miles South of Herring Point is a cove about a quarter mile long, but the approach to it is foul. Two rocks, three-eighths of a mile West of the entrance and a half mile N N W(true) of Shoulder Point, are bare at low water.

Shoulder Point, Three miles South of Herring Point, is a low point, slightly higher at its outer end, quite prominent from the North and the South. A reef, bare at low water, extends about two hundred yards off shore.

About three-eighths of a mile South of Shoulder Point there is a cove about a quarter mile long, suitable only for small craft.

Three quarters of a mile South of Shoulder Point there is another cove almost three-eighths of a mile long. A rock, bare at low water, lies in the middle of the entrance. There is a steep bare cliff about 1000 feet high on the South side of this cove which is quite prominent.

From the entrance to this cove Southward to Lower Herring Bay there is foul ground for about two hundred yards off shore.

There is another cove 2 and three-eighths miles South of Shoulder Point, but the approach to it is obstructed by rocks. ?

About seven-eighths of a mile N W (true) from Channel Rock lies a reef bare at half tide, which extends in a North and South direction for about half a mile. The passage inside these reefs should be used with caution, even by small craft, as the shore is also very rocky.

Lower Herring Bay, six and a half miles Southward of Herring Point, is about three and a half miles long from its entrance to the head of Pointing Arm, and has a maximum width of about one mile. The entrance is about three-eighths of a mile wide. The South shore is steep and wooded. A chain of islets and rocks extends along the North shore to the entrance to the North arm. The islet on which Triangulation Station Dis is located has a tall conspicuous dead tree on it. The wooded islets about a quarter mile inside the entrance appear as one. The highest point on them has an elevation of 123 feet. A rock, covered at high water, lies in the middle of the Bay, about a half mile South of Cliff Point and on the range Cliff Point and Dark Point.

The North arm is about one mile long and narrows down to a width of only two hundred yards. The West side of the arm is steep, of a uniform slope and heavily wooded. The East side is irregular and covered with grass and moss to an elevation of about 800 feet, above which bare rock crops out. Dark Point, three-eighths of a mile from the head of the arm, is low and shows dark from the Southward. Cliff Point, about three quarters of a mile from the head of the arm, is a steep cliff

about 80 feet high.

Pointing Arm is about one and three quarters miles long and narrows down to a width of two hundred and twenty-five yards a half mile from its head. The North side is bare and precipitous. Half a mile from the head of the arm there is a bare rocky islet. The head of the arm is foul for a distance of about two hundred yards. There are several waterfalls along the East shore of the arm.

Two small coves indent the East shore of the Bay. The Northern one has foul ground along its South shore but a clear passage to the Northward of the wooded islet at its entrance. There are two waterfalls in this cove. The Taku found shelter in the small cove which indents the South shore of the Bay. Water was obtained from a stream at the head of the cove.

The shore from Lower Herring to Aguliak Bay is foul for a distance of seventy-five yards off shore.

Aguliak Bay, a half mile long and a quarter mile wide, is a half mile South of Lower Herring Bay. The South side is foul for a distance of two hundred and Twenty-five yards.

The shore between Aguliak and Johnson Bays is broken with many rocks from twenty-five to fifty yards off shore.

Johnson Bay, eight and a half miles Southward of Herring Point, is a half mile wide at the entrance and about two miles long. There is a good sized wooded island in the entrance, about 130 feet high. A reef, bare at half tide, lies about two hundred yards West of the island. A reef, bare at half tide, extends about three hundred and fifty yards to the Northward of the island. This reef, together with some rocks lying close to the North shore, narrow the channel to barely one hundred and twenty-five yards.

Rocks extend about one hundred and twenty-five yards off the South end of the island in the entrance to Johnson Bay. The channel to the Southward of this island

is wider than the other, but the approach to it is obstructed by a reef extending seven-eighths of a mile in a N N E(true) direction from the North end of Squirrel Island, terminating in a dangerous rock, bare only at extreme low water, lying three-eighths of a mile W N W(true) of the North west end of the island in the entrance to Johnson Bay.

There are many rocks and islets along the South shore of Johnson Bay. At the head of the Bay there is a waterfall which comes from a small lake.

The Southeast arm is foul. A rock, bare at half tide, lies two hundred yards West(true) of the point on the North side of the entrance to this arm.

The South arm is foul for a distance of almost a quarter mile from its head.

The shore from Johnson Bay Southward to the end of the Topography is broken by many islets and rocks. Two rocks, bare only at low water, lying about a quarter mile East of the North end of Squirrel Island, together with several others, make the use of the channel East of Squirrel Island dangerous even to small craft.

Aguliak Islands: A group of wooded islands about 126 feet high, lying between the entrances to Lower Herring and Johnson Bays. The Islands are about five-eighths of a mile long in a N N E direction and an eighth of a mile wide. Two rocks covered at high water, lie about one hundred and fifty yards to the Northward of the Islands and a reef makes out about three-eighths of a mile to the Westward, the outermost rocks bareing only at extreme low water.

Geographical Names: All the names used are taken from previously published charts and are in general use, except the following:

Shoulder Point, Cliff Point, and Dark Point- all used because of some characteristic feature. Pointing Arm: named so because of its peculiar shape. Aguliak Bay and Aguliak Islands: Aleut name obtained from the Natives- word means "between" and applied because of the occurrence of the Islands between the two Bays.

Methods of Survey:

The Topography was executed by means of the Plane Table. Triangulation Stations located on Chenega Island controlled the Topography. Launch #41, a whale boat with a gasoline engine installed, was used in moving from place to place, and greatly expedited the work.

Approved:

*Gilbert J. Rude.*

Asst., C. & G. Survey, Chief of Party.

Respectfully submitted,

*A. M. Sobieralski*

Aid, C. & G. Survey.

Topographic positions, Knight Island, Alaska.  
 Passage Point to Drier Bay,  
 Sheet No.

Name	φ	DM	λ	Description
True	60° 30'	1354	147 42 160	Small tree stripped of branches
Rain	60 30	1012	147 42 668	Cannot be recovered
Beck	60 30	490	147 43 20	Tree on W. end small island
Dirt	60 30	646	147 43 580	Cannot be recovered.
Loud	60 29	1708	147 43 646	Cannot be recovered
Bon	60 29	838	147 43 680	Cannot be recovered
Hod	60 29	336	147 43 816	Cannot be recovered
Flat	60 28	1612	147 44 87	Cannot be recovered
Lug	60 28	9978	147 44 102	center of large rock
Nan	60 29	1220	147 43 638	Cannot be recovered
Dow	60 28	1128	147 43 386	Cannot be recovered
From	60 29	7796	147 43 64	Cannot be recovered
Lick	60 29	6000	147 43 380	Cannot be recovered
Port	60 28	9902	147 43 646	Cannot be recovered
Old	60 28	350	147 44 272	Cannot be recovered
Pard	60 27	1238	147 44 188	center of large rock
Leg	60 27	352	147 44 2344	center of large rock
Bel	60 27	228	147 43 822	Cannot be recovered
Clax	60 26	1148	147 43 240	Cannot be recovered
Got	60 26	100	147 43 160	Cannot be recovered
Blab	60 25	1406	147 43 986	Cannot be recovered
Cop	60 25	1140	147 42 874	Cannot be recovered
Ho	60 25	9924	147 43 314	N. Gable Crown Copper Co's House
And	60 25	1218	147 43 446	Tree on small island
Hit	60 25	1676	147 43 486	Cannot be recovered
Deep	60 25	1784	147 43 800	North, steep face islet.
Rap	60 25	1590	147 44 70	Cannot be recovered
Cab	60 25	1204	147 44 416	Cannot be recovered
Fin	60 25	1272	147 44 668	Whitewash on large rock
Slop	60 26	00	147 44 460	Cannot be recovered
Face	60 26	390	147 44 188	Cannot be recovered
Ido	60 26	966	147 43 660	Cannot be recovered
Stum	60 26	1330	147 43 698	Stump
Hot	60 26	1344	147 44 800	Cannot be recovered
Pig	60 26	662	147 44 588	Cannot be recovered
Poke	60 26	462	147 44 888	Prominent stump

Dit	60-26	<del>440</del> 147-45	432	Cannot be recovered
Tim	60 26	88 147-45	838	Cannot be recovered
Pen	60 25	1504 147-45	858	Cannot be recovered
Lard	60 25	1166 147 46	218	Cannot be recovered
Pee	60 26	704 147 46	154	Prominent stump
Out	60 26	780 147 45	814	Large, prominent tree, dead, leaning out over water
Den	60 26	1522 147 45	918	Cannot be recovered
Ton	60 26	1452 147 46	260	Cannot be recovered
Ny	60 26	324 147 46	418	Whitewash patch center large rock
Dig	60 25	1428 147 47	00	Cannot be recovered
Light	60 25	1300 147 46	393	Prominent light point
Sus	60 25	1154 147 47	42	Cannot be recovered
Skin	60 25	604 147 47	254	Cannot be recovered
Nose	60 25	92 147 47	464	Cannot be recovered
Cat	60 24	1460 147 47	726	Cannot be recovered
Bot	60 25	56 147 47	752	Cannot be recovered
Bite	60 25	484 147 47	712	Cannot be recovered
Nit	60 25	1092 147 47	524	Cannot be recovered
Bob	60 25	1598 147 47	308	Cannot be recovered
Pee	60 26	384 147 47	334	Cannot be recovered
Gun	60 26	1346 147 47	478	Cannot be recovered
Moon	60 27	490 147 47	232	Cannot be recovered
Mid	60 27	878 147 45	414	Target on flat, large rock.
Wedge	60-28	558 147 46	488	Target on low, prominent rocky point.
Keg	60 28	1650 147 47	78	Tripod on high grassy point
Hob	60 28	1520 147 47	346	Cannot be recovered
In	60 28	1256 147 47	540	Cannot be recovered
Der	60 28	612 147 48	84	Tripod on point
Rufe	60 27	1632 147 48	116	Cannot be recovered
Prom	60 27	1256 147 47	880	Cannot be recovered
Par	60 27	446 147 48	490	Cannot be recovered
Lup	60 26	1660 147 49	22	Cannot be recovered
Nox	60 26	1196 147 48	890	Cannot be recovered
Yel	60 26	384 147 49	00	Cannot be recovered
Cub	60 24	1544 147 50	496	Cannot be recovered
Ran	60 23	1514 147 51	290	Cannot be recovered

Name	φ	D.M	λ	D.M	Description.
Lean	60 22	1306	147 50	876	Leaning tree on S. end small island
Green	60 22	1506	147 50	620	Rock. E of island in entrance to Bay
Dome	60 23	320	147 49	664	Center of rock, low.
Hang	60 23	697	147 49	354	Cannot be recovered
Top	60 23	1032	147 48	660	Center of rock, low
Flap.	60 23	1646	147 48	524	Cannot be recovered
End	60 24	300	147 48	418	Tree 8" marked by blazed triangle
Mag	60 24	00	147 48	268	Tree 2' in dia. marked by blazed triangle
Tie	60 23	1224	147 48	288	Prominent lead tree
Hash	60 23	810	147 48	490	N. end prominent cliff.
Dub	60 23	290	147 48	200	Tree, marked by blazed triangle
Hix	60 23	556	147 47	860	Cannot be recovered
Tar	60 23	1170	147 47	486	Tree 18" dia, triangle of nails on back.
Dead	60 23	1808	147 47	206	Tree marked by triangle of nails
Bo	60 24	364	147 47	14	Tree cannot be recovered.
Clam	60 24	546	147 46	610	Tree 6" diameter; 5" triangle on tree
Hol	60 23	1820	147 46	606	Tree, 1 ft in dia. Triangle of nails on back
Bin	60 23	1470	147 47	64	Cannot be recovered.
Sten	60 23	1184	147 46	834	Slender falls.
Two	60 23	770	147 47	246	Larger of two prominent dead trees.
Slim	60 23	426	147 47	606	Small tree, marked by triangle of nails
Hig	60 22	1700	147 47	580	Cannot be recovered.
Drop	60 22	1716	147 47	177	Falls.
Wat	60 22	1496	147 47	190	Falls.
Bol	60 22	1200	147 47	418	Prominent boulder on bank.
Red	60 22	1476	147 47	602	Cannot be recovered
Flag	60 22	1688	147 47	736	Prominent stump on islet
Cl.H	60 22	1572	147 48	72	Prominent cliff, smooth sport.
Low	60 22	982	147 48	450	Prominent large stump
Root	60 22	534	147 49	334	Large stump marked with triangle of nails
Lump	60 22	416	147 49	340	Cannot be recovered
Tree	60 22	256	147 49	246	Prominent dead tree.
Lay	60 22	390	147 49	600	Cannot be
Big	60 22	744	147 49	640	Tree marked by triangle of nails
Sob	60 22	822	147 49	786	Cannot be recovered
Ras	60 22	806	147 50	136	Cannot be recovered

Name	Q	D.M	L	D.M	Description	
Key	60	22	864	147 50	404	Cannot be recovered
Ent	60	22	830	147 51	210	Cannot be recovered
Ring	60	22	790	147 51	816	Cannot be recovered
BIT	60	22	74	147 52	66	Cannot be recovered
Rob	60	21	1814	147 52	00	Cannot be recovered
Ice	60	21	1710	147 51	600	Cannot be recovered
Hid	60	21	1670	147 51	200	Cannot be recovered
Far	60	21	1194	147 51	304	Cannot be recovered
Tip	60	21	1328	147 51	476	Center of low rock
Egg	60	21	1380	147 52	256	Prominent rock.
Ed	60	22	78	147 52	714	Extreme N. point of island
Spit	60	21	1684	147 52	712	Tree on spit
Lob	60	21	1460	147 52	704	Cannot be recovered.
LUT	60	21	1164	147 52	452	Prominent leaning tree
Tag	60	21	940	147 52	876	Cannot be recovered
Wrap	60	21	690	147 52	528	Prominent leaning tree
Squirrel	60	20	368	147 54	244	Cannot be recovered
Bay	60	20	796	147 52	716	Top of low rock
John	60	21	206	147 52	336	Cannot be recovered ✓
Cro	60	21	136	147 52	12	Prominent cubical rock with tuft of grass.
Gray	60	21	40	147 51	704	Cannot be recovered
Tak	60	21	70	147 51	436	Cannot be recovered
Reg	60	21	300	147 50	712	Cannot be recovered
Back	60	21	416	147 50	34	Cannot be recovered
Gull	60	20	1540	147 49	866	Center of rock ✓
Fall	60	20	1510	147 49	600	Large fall
Cross	60	20	1018	147 49	774	Cannot be recovered
Bum	60	20	854	147 49	608	Cannot be recovered
Long	60	20	940	147 49	162	Cannot be recovered
Jo	60	20	630	147 48	746	Cannot be recovered
Wit	60	20	550	147 49	144	Center of rock. ✓
Stu	60	20	340	147 49	676	Prominent stump
TUT	60	20	300	147 49	744	Cannot be recovered
Sin	60	20	76	147 49	768	Dead tree on small island
Jag	60	19	1416	147 50	170	Cannot be recovered

Name	$\phi$	D.M	$\lambda$	D.M	Description
Dab	60 20	276	147 50	236	Cannot be recovered
Dun	60 20	484	147 50	474	Cannot be recovered
Fad	60 20	636	147 50	540	Cannot be recovered
Mis	60 20	710	147 50	646	Cannot be recovered
Hit	60 20	1000	147 50	750	Center of low rock
Ker	60 20	1100	147 50	724	Cannot be recovered
Mez	60 20	1276	147 51	120	Prominent rock ✓
Tran	60 20	1686	147 52	212	Cannot be recovered
Mo6	60 20	1620	147 52	144	center of rock ✓
Don	60 20	1476	147 52	550	Cannot be recovered.