

PLAT
OF
U. S. SURVEY NO. ⁹⁷⁴~~48~~

OF THE
ALLOTMENT
Act of May 17, 1906.
OF
SAM DENNIS

Application dated Aug. 17, 1911,
Approved June 4, 1913.

SITUATE

Near the head of Chilkoot Inlet,
On the S.W. shore of the inlet
TERRITORY OF ALASKA

Latitude 59°19'N.
Longitude 135°32'W.
Area 52.26 Acres
Variation 31°00' East
Scale 4 Chains = 1 Inch

As surveyed under special instructions from
the U.S. Surveyor-General, dated Aug. 25, 1914,
by

Victor H. Wilhelm
U. S. SURVEYOR
Sept. 19 & 29, 1914.

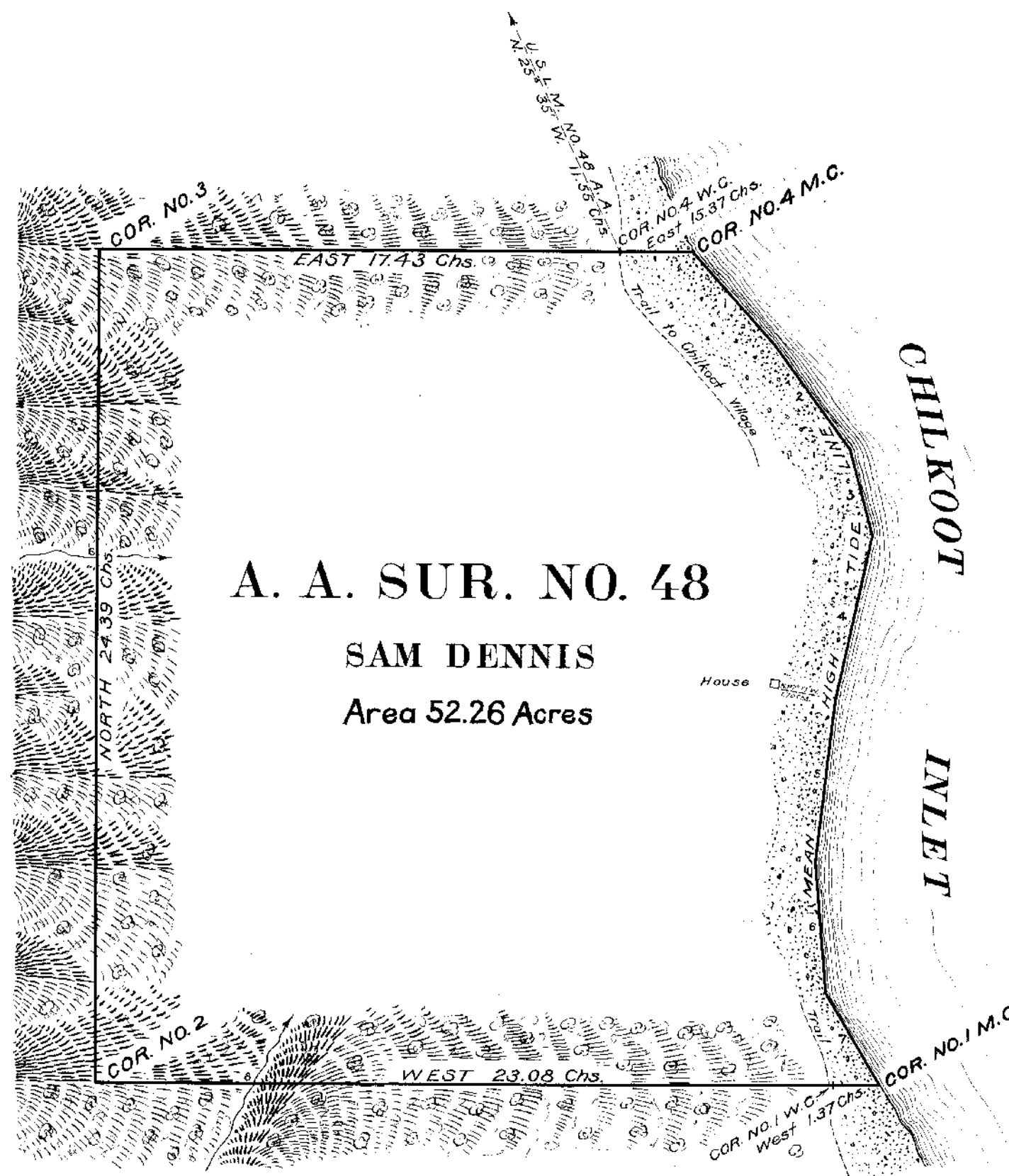
U. S. Surveyor-General's Certificate

U. S. Surveyor-General's Office,
Juneau, Alaska, 1914

The original field notes of the survey of
the Alaska Allotment Claim of Sam Dennis,
from which this plat has been made, have
been examined and approved, and are on
file in this office, and I hereby certify that
they furnish such an accurate description
of said claim as will if incorporated into a
patent, serve fully to identify the premises
and that such reference is made therein
to natural objects and permanent monuments
as will perpetuate and fix the LOCUS thereof.

And I further certify that this is a correct
plat of said claim made in conformity
with said original field notes of the survey
thereof and the same is hereby approved.

U. S. Surveyor-General for Alaska.



Meanders

No.	Course	Distance
1	S. 42° 23' E.	3.71 Chs.
2	S. 36° 05' E.	3.70 Chs.
3	S. 14° 46' E.	2.64 Chs.
4	S. 12° 08' W.	4.90 Chs.
5	S. 6° 40' W.	4.89 Chs.
6	S. 4° 36' E.	3.73 Chs.
7	S. 30° 33' E.	3.20 Chs.

ORIGINAL

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

BUREAU OF LAND MANAGEMENT

RECEIVED
JUL 12 1960

FIELD NOTES

CADASTRAL SURVEY OFFICE
Anchorage, Alaska

OF

RETRACEMENT AND REMONUMENTATION OF

U.S. SURVEY NO. 974

AND

RETRACEMENT OF LINE 1-2, US SURVEY NO. 946, IDENTICAL

WITH LINE 4-3, US SURVEY NO. 973 AND RETRACEMENT OF LINE 4-3, US SURVEY

NO. 161

SITUATED

ON THE SOUTHWESTERLY SHORE OF LUTAK INLET ABOUT 9

MILES NORTHWESTERLY OF HAINES, ALASKA

APPROXIMATE GEOGRAPHIC POSITION OF CORNER NO. 1

Latitude 59°19' N.

Longitude 135°32' W.

Of the _____ Meridian,

In the State of ALASKA

EXECUTED BY

ROBERT Q. PICKERING, CADASTRAL SURVEYOR

supplemental
Under/special instructions dated July 14, 19⁵⁹, which provided
for the surveys included under ~~Group~~ Survey No. 974, approved July 20, 1959
and assignment instructions dated July 14, 19⁵⁹

Survey commenced July 15, 19⁵⁹

Survey completed July 22, 19⁵⁹

U. S. SURVEY NO. 974

Chains

Survey commenced July 15, 1959 and executed with a W. & L. E. Gurley transit, Serial No. 391237, of which the horizontal plate is read by double opposite verniers to single minutes of arch, which is also the least count of the vernier of the vertical circle. After satisfactory tests the instrument was found free from appreciable error.

All measurements are made with a 1/8 in. steel tape, 5.00 chains long, graduated every link for the first chain, the remainder every 10 links. The tape was compared with a 66-ft. standard steel tape and a 3.50 chain steel tape and found in agreement.

All measurements are made on the slope with the vertical angle of each interval measured with the transit circle and the horizontal equivalents entered in the field note record.

The geographical position of meander cor. No. 1 was obtained from the original record of US Survey No. 974 and is entered in these field notes to the nearest half minute as latitude $59^{\circ}19'$ N., longitude $135^{\circ}32'$ W.

Due to adverse weather conditions, it was impossible to obtain observations upon the sun for azimuth, I therefore obtain the azimuth for this survey from the record of lines 1-2 and 2-3, of the original US Survey No. 974. This azimuth is carried to all parts of the survey by taking the mean of direct and reverse deflection angles at each instrument station.

The magnetic declination is 30° E.

PRELIMINARY STATEMENT

Supplemental Special Instructions dated July 14, 1959, were initiated from the Juneau Operations Supervisor's Memorandum dated July 10, 1959 in regard to instructions contained in the Director's Decision dated June 25, 1958 and confirmed by the Secretary's Decision dated June 15, 1959, to provide for the retracement and remonumentation of US Survey No. 974 and field examination to determine the extent of conflict of US Surveys Nos. 946 and 973 with US Survey No. 161.

US Survey No. 974 was originally surveyed by Victor H. Wilhelm, US Surveyor, in September 1914, under Special Instructions dated August 25, 1914, as Alaska Allotment Survey No. 48. The field notes and plat were transmitted to the Commissioner in January 1915, for acceptance, which were suspended due to possible conflict with US Survey No. 161.

In June 1956, William Muncaster, registered land surveyor, determined the location of US Survey No. 161 and found US Survey No. 946 and US Survey No. 973, both of which, were executed by Victor H. Wilhelm, in September 1914, in conflict with US Survey No. 161, executed by Clinton Gurnee Jr., US Deputy Surveyor, in August 1899.

During the retracement of US Survey No. 974, all corner monuments and blazed lines, were recovered in their original positions, with the exception of witness meander cor. No. 4, which was destroyed by road construction. The courses and distances of the boundary lines remain the same as the original record, with the description of the new monumentation, topography and improvements incorporated within the following notes.

The calculated bearing and distance tie was determined from field traverse tie from witness meander cor. No. 1, to cor. No. 4, US Survey No. 161.

U. S. SURVEY NO. 974

Chains

Retracement of line 1-2, US Survey No. 946, (A. A. Survey No. 45) and line 4-3, US Survey No. 973, (A. A. Survey No. 46) identical in part, was made to determine a point of intersection with line 3-4, US Survey No. 161. The bearings and distances from the determined point of intersection to corner 3 and 4, US Survey No. 161, are given in these notes and shown on the plat; details of the retracement of line 3-4, US Survey No. 161 are omitted.

Begin at true point for meander cor. No. 1, US Survey No. 974 (A. A. Survey No. 48), identical with meander cor. No. 1, US Survey No. 973 (A. A. Survey No. 46), on the southwesterly shore of Lutak Inlet, unsafe place for monument.

West, on line 1-2, identical with line 1-2, US Survey No. 973.

Ascend 4 ft. over gravelly to rocky shore line.

0.60 Center of gravel road on curve, bears S. 40° E., and N. 35° W.

1.30 Enter fringe of alder.

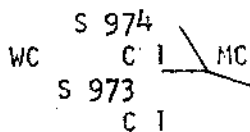
1.37 Point for witness meander cor. No. 1, identical with witness meander cor. No. 1, US Survey No. 973, monumented with a stone, 16 X 15 X 10 ins., showing 5 ins. above the surface, firmly set and mkd. X on top WC 1 S 48 AA on North side, MC 1 S 46 AA on South side and MC on East side.

from which, one original bearing tree

A spruce, 30 ins. diam., bears S. 40° W., 61 lks. dist., mkd.
X S 46 AA WC 1 MC BT.

At the corner point,

Set an iron post, 28 ins. long, 2½ ins. diam., 26 ins. in the ground, with brass cap mkd.



1959

from which

A spruce, 4 ins. diam., bears N. 84½° W., 24½ lks. dist., mkd.
X BT.

A spruce, 6 ins. diam., bears N. 39½° W., 52 lks. dist., mkd.
X BT.

Cor. No. 4, US Survey No. 161, monumented with a deteriorated wood post, 4 ins. sq., wired to an iron pipe, 2 ins. diam., extending 5 ft. above surface, firmly set in a mound of stone 4 ft. diam., at base and 24 ins. high, bears S. 49°45'30" E., 20.43 chs. dist. There are no remains of the original bearing trees.

US Coast & Geodetic Survey triangulation station "KOKA" monumented with a brass cap, 3½ ins. diam., mkd. KOKA 1943 set in a concrete block 1 ft. sq., extending 4 ins. above the surface, and US MV WEST DAHL 1943 scribed on top of concrete block, around brass cap, bears S. 70°29' E., 20.03 chs. dist.

Bury original stone corner monument alongside iron post.

U. S. Survey No. 974

Chains

- 1.38 Enter spruce and hemlock timber, leaving fringe of alder.
- 1.60 Ascend 46 ft. over steep northeasterly slope.
- 2.80 Top of steep slope; continue ascending over more gentle northeasterly slope.
- 6.17 Intersect cor. No. 2, US Survey No. 973 (A. A. Survey No. 46), monumented with a stone, 4 X 12 X 20 ins., extending 8 ins. above the surface, firmly set and mkd. X on top, S 46 AA C2 on East side. There is no remaining evidence of the original bearing trees.

At the corner point

Set an iron post, 28 ins. long, $2\frac{1}{2}$ ins. diam., 26 ins. in the ground, with brass cap mkd.

S 974

S 973
C 2

1959

from which

A hemlock, 6 ins. diam., bears N. 66° E., 62 lks. dist., mkd.
S 974 BT.

A hemlock, 16 ins. diam., bears S. $64\frac{1}{2}^{\circ}$ E., 38 lks. dist., mkd.
S 973 C2 BT.

Bury original stone cor. monument alongside iron post.

Continue ascending, 365 ft. over steep northeasterly slope.

- 7.37 Stream, 2 lks. wide, course N. 30° E.
- 12.45 Stream, 2 lks. wide, course N. 85° E.
- 22.45 Stream, 15 lks. wide, course N. 65° E.
- 23.08 Point for cor. No. 2, monumented with a stone, 6 X 8 X 12 ins., extending 2 ins. above the surface, firmly set and mkd. X on top, S 48 AA C2 on Northeast side.

from which, original bearing trees

A hemlock, 12 ins. diam., bears N. 29° E., 44 lks. dist., mkd.
X S 48 AA C2 BT.

A hemlock, 10 ins. diam., bears N. $37\frac{1}{4}^{\circ}$ W., 17 lks. dist., mkd.
X S 48 AA C2 BT.

At the corner point

Set an iron post, 28 ins. long, $2\frac{1}{2}$ ins. diam., 24 ins. in the ground, with brass cap mkd.

S 974
C 2

1959

from which

A hemlock, 10 ins. diam., bears N. $74\frac{1}{2}^{\circ}$ E., 24 lks. dist., mkd.
S 974 C 2 BT.

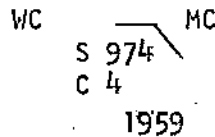
U. S. SURVEY NO. 974

Chains	
	<p>A hemlock, 8 ins. diam., bears N. $11\frac{1}{2}^{\circ}$ W., 10 lks. dist., mkd. S 974 C 2 BT.</p> <p>Bury original stone corner monument alongside iron post.</p>
	<p>North, on line 2-3.</p>
	<p>Descend 290 ft. over rolling northeasterly slope, through hemlock and scattered spruce timber and berry bush undergrowth.</p>
11.35	<p>Stream, 3 lks. wide, course E.</p> <p>Slope changes to more easterly.</p>
15.92	<p>Stream, 2 lks. wide, course N. 70° E.</p>
16.60	<p>Slope becomes rolling easterly to southeasterly.</p>
22.90	<p>Stream, 10 lks. wide, in bottom of ravine, 2 chs. wide, 50 ft. deep, course S. 75° E.</p>
24.39	<p>Point for cor. No. 3, monumented with a stone, 6 X 8 X 14 ins., extending 2 ins. above the surface, firmly set, and mkd. X on top, S 48 AA C 3 on the northeasterly side.</p> <p>from which, the original bearing trees</p>
	<p>A hemlock, 14 ins. diam., bears N. 15° E., $13\frac{1}{2}$ lks. dist., mkd. S 48 C3 AA BT.</p>
	<p>A hemlock, 10 ins. diam., bears S. $12\frac{1}{2}^{\circ}$ W., 19 lks. dist., mkd. S 48 C3 AA BT.</p>
	<p>At the corner point</p> <p>Set an iron post, 28 ins. long, $2\frac{1}{2}$ ins. diam., 14 ins. in the ground, in a mound of earth, 3 ft. diam., at base, 14 ins. high, with brass cap mkd.</p>
	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> <p>S 974 C 3</p> </div> <p style="text-align: center;">1959</p>
	<p>from which</p>
	<p>A hemlock, 10 ins. diam., bears S. 69° E., $45\frac{1}{2}$ lks. dist., mkd. S 974 C3 BT.</p>
	<p>A hemlock, 12 ins. diam., bears S. $22\frac{1}{2}^{\circ}$ E., $49\frac{1}{2}$ lks. dist., mkd. S 974 C3 BT.</p>
	<p>Bury original stone corner monument alongside iron post.</p>
	<p>East, on line 3-4.</p>
	<p>Descend 125 ft. over rolling easterly to northeasterly slope, through hemlock and scattered spruce timber.</p>
13.50	<p>Stream, 10 lks. wide, course N. 40° E.</p>
14.40	<p>Point selected for witness meander cor. No. 4.</p>

US SURVEY NO. 974

Chains

Set an iron post, 28 ins. long, $2\frac{1}{2}$ ins. diam., 27 ins. in the ground, with brass cap mkd.



from which

A spruce, 24 ins. diam., bears S. $28\frac{1}{2}^{\circ}$ W., 33 lks. dist., mkd. X BT.

A hemlock, 10 ins. diam., bears N. $46\frac{3}{4}^{\circ}$ W., $28\frac{1}{2}$ lks. dist., mkd. X BT.

US Location Monument No. 48 AA, monumented with a X chiseled on top of a granite boulder 11 X 17 ft., extending 6 ft. above the surface, on the northeasterly side of gravel road, near the shore line, mkd. USLM AA NO. 48 underneath the X, bears N. $21^{\circ}06'$ W., 11.16 chs. dist.

The most northerly cor. of garden, bears S. $31^{\circ}53'$ E., 7.35 chs. dist., from which, the northwesterly end of garden extends S. $72\frac{1}{2}^{\circ}$ W., 1.50 chs. dist.; from the northwesterly end, the southwesterly and northeasterly sides of the garden extend in a southeasterly direction with the two sides converging at a point, on the southwesterly side of the road, 5.40 chs. dist., from the most northerly cor.

The most westerly cor. of a green house, 9 X 10 ft., long side extends N. 10° E., bears S. $31^{\circ}34'$ E., 11.69 chs. dist.

The most northerly cor. of irregular shaped house, bears S. $35^{\circ}42'$ E., 10.97 chs. dist., thence with dimensions of house; S. 80° E., 40 ft.; S. 10° W., $16\frac{1}{2}$ ft.; S. 35° E., 24 ft.; S. 55° W., 16 ft.; N. 35° W., 24 ft.; N. 80° W., 28 ft.; N. 10° E., 28 ft. and point of beginning.

The most northerly cor. of wire mesh fence around chicken yard, irregular in shape, bears S. $39^{\circ}04'$ E., 9.43 chs. dist., thence with dimensions of fence; S. 80° E., 59 ft.; S. 10° W., 77 ft.; N. 80° W., 31 ft.; N. 10° E., 20 ft.; N. 80° W., 28 ft.; N. 10° E., 57 ft. point of beginning. From the most northerly cor. of fence, the most northerly cor. of a small chicken house, 8 X 16 ft., long side extends S. 10° W., bears S. $29\frac{1}{2}^{\circ}$ E., 16 lks. dist.

15.35 Center of gravel road, bears S. 30° E. and N. 30° W.

15.37 Record position for the original witness meander cor. monument, falls in the gravel road. After diligent search, the stone monument was determined to have been destroyed during road construction.

17.43 True point for meander cor. No. 4, on the southwesterly shore of Lutak Inlet, not monumented.

Thence with record meander courses and distances along the shore of Lutak Inlet, in a southeasterly direction.

Over gravelly to rocky shore line.

S. $42^{\circ}23'$ E., 3.71 chs.

S. $36^{\circ}05'$ E., 3.70 chs.

S. $14^{\circ}46'$ E., 2.64 chs.

U. S. SURVEY NO. 974

Chains

S. 12°08' W., 4.90 chs.

S. 6° 40' W., 4.89 chs.

S. 4° 36' E., 3.73 chs.

S. 30°33' E., 3.20 chs., At end of course, meander cor. No. 1 and point of beginning.

Containing 52.26 acres.

GENERAL DESCRIPTION

The land in this survey lies on easterly to northeasterly slopes covered with hemlock and spruce timber with scattered patches of berry bush undergrowth and a fringe of alder near the southeast corner.

The soil is a mixture of sand, gravel and forest mold covered with from 4 to 6 ins. of moss in the timbered area.

There are no remains of the original house, fence lines or foot trail on the land as described in the original 1914 survey.

At the time of this survey, a public gravel road traverses through the survey near the shore line.

Costly and extensive improvement have been made by the occupant now on the land.

RETRACEMENT OF LINE 4-3, US SURVEY NO. 973 (A. A. SURVEY NO. 46) IDENTICAL IN PART WITH LINE 1-2, US SURVEY NO. 946 (A. A. SURVEY NO. 45).

Begin at record position for meander cor. No. 4, US Survey No. 973 identical with meander cor. No. 1, US Survey No. 946, on the south-westerly shore of Lutak Inlet, unsafe place for monument.

West, on line 4-3, US Survey No. 973 and line 1-2, US Survey No. 946.

Over rocky to gravelly shore line.

0.10 Ascend over gravel road fill.

0.40 Center of gravel road, bears S. 1° E. and N. 1° W.

0.60 Ascend over easterly slope through spruce and hemlock timber.

2.03 Intersect point for witness meander cor. No. 4, US Survey No. 973, identical with witness meander cor. No. 1, US Survey No. 946, monumented with a granite stone, 6 X 12 ins. showing 6 ins. above the surface, firmly set, mkd. X on top and S 45 C1 S 46 C4 WC MC on the west side and witnessed as described in the official records of US Survey No. 973 and US Survey No. 946.

from which

A spruce, 18 ins. diam., bears N. 11°24' E., 4.45 chs. dist., mkd. USIM BT. US Initial Monument No. 161, originally monumented with a stone was destroyed by road construction. There is no record, however, in the official record of US Survey No. 161, of any trees taken as bearing objects to the initial monument.

U. S. SURVEY NO. 974

Chains

- 9.565 Intersect line 3-4, US Survey No. 161, not monumented,
from which
- Cor. No. 3, US Survey No. 161, monumented with a deteriorated wood post, 4 ins. sq., set 14 ins. in the ground. The portion above the ground has been broken off and destroyed. Alongside the remaining portion of the wood post is an iron pipe, 2 ins. diam., extending 5 ft. above the surface, which bears S. 1° 39' W., 11.13 chs. dist. Original bearing trees in good condition.
- Cor. No. 4, US Survey No. 161, hereinbefore described, bears N. 1°39' E., 8.37 chs. dist.
- The record bearing of line 3-4, US Survey No. 161, as determined from the magnetic declination given on the Isogonic Chart for this area, with the survey boundary lines run on the ground by transit method, and distance is N. 0°30' E., 19.34 chs.
- Over rocky dry wash.
- 12.15 Leave rocky wash; enter spruce and hemlock timber.
- 18.91 Intersect cor. No. 2, US Survey No. 946 (A. A. Survey No. 45), monumented with a granite stone, 10 X 12 ins. extending 6 ins. above the surface, mkd. X on top and S 45 C2 AA on the north side, firmly set, mkd. and witnessed as described in the official record.
- Record bearing and distance of line 1-2, US Survey No. 946 is West, 18.91 chs.
- 19.10 Enter rocky wash.
- 21.00 Leave rocky wash; enter timber.
- 29.74 Cor. No. 3, US Survey No. 973 (A. A. Survey No. 46), monumented with a granite stone, 8 X 10 ins., extending 6 ins. above the surface, firmly set, mkd. X on top and S 46 C3 AA on the north side, and witnessed as described in the official record.
- Record bearing and distance of line 3-4, US Survey No. 973 is East, 29.70 chs.

CERTIFICATE OF CADASTRAL ENGINEER

I, ROBERT Q. PICKERING, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 14th day of JULY, 1959, I have surveyed RETRACEMENT AND REMONUMENTATION OF U. S. SURVEY NO. 974 AND RETRACEMENT OF LINE 1-2, U. S. SURVEY NO. 946, IDENTICAL WITH LINE 4-3, U. S. SURVEY NO. 973 AND RETRACEMENT OF LINE 4-3, U. S. SURVEY NO. 161 SITUATED ON THE SOUTHWESTERLY SHORE OF LUTAK INLET ABOUT 9 MILES NORTHWESTERLY OF HAINES, ALASKA APPROXIMATE GEOGRAPHIC POSITION OF CORNER NO. 1; LATITUDE 59°19' N., LONGITUDE 135°32' W. of the _____ Meridian, in the State of ALASKA, which are represented in the foregoing field notes as having been executed by me and under my direction; and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

Juneau, Alaska
JUNEAU, ALASKA

Robert Q. Pickering
ROBERT Q. PICKERING, CADASTRAL SURVEYOR

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,
 Washington, D. C., JUN 7 1960, 19____

The foregoing field notes of the survey of RETRACEMENT AND REMONUMENTATION OF U. S. SURVEY NO. 974 AND RETRACEMENT OF LINE 1-2, U. S. SURVEY NO. 946, IDENTICAL WITH LINE 4-3, U. S. SURVEY NO. 973 AND RETRACEMENT OF LINE 4-3, U. S. SURVEY NO. 161 SITUATED ON THE SOUTHWESTERLY SHORE OF LUTAK INLET ABOUT 9 MILES NORTHWESTERLY OF HAINES, ALASKA APPROXIMATE GEOGRAPHIC POSITION OF CORNER NO. 1; LATITUDE 59°19' N., LONGITUDE 135°32' W. executed by ROBERT Q. PICKERING, CADASTRAL SURVEYOR having been critically examined and found correct, are hereby approved.

Donald B. Cement
 Cadastral Engineering Staff Officer.

CERTIFICATE OF TRANSCRIPT

~~I certify that the foregoing transcript of the field notes of the above described surveys is a true and correct copy of the original field notes~~

~~XXXXXXXXXXXXXXXXXXXX~~

ORIGINAL

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD NOTES

OF THE

RETRACEMENT

AND SUBDIVISION OF

U.S. SURVEY No. 974

SITUATED ON THE WESTERN SHORE OF LUTAK INLET
APPROXIMATELY 7 MILES NORTHWESTERLY OF HAINES, ALASKA

WITHIN TOWNSHIPS 29 SOUTH, RANGES 58 AND 59 EAST

OF THE COPPER RIVER MERIDIAN

IN THE STATE OF ALASKA

THE GEOGRAPHIC POSITION

OF

THE WITNESS CORNER TO CORNER No. 1,

IDENTICAL WITH THE WITNESS CORNER TO CORNER No. 1, U.S. SURVEY No. 973,

BOTH MEANDER CORNERS, IS

LATITUDE: $59^{\circ} 19' 00.33''$ NORTH, LONGITUDE: $135^{\circ} 33' 10.61''$ WEST

NAD 27

EXECUTED BY

John D. Taivalkoski, Cadastral Surveyor

Under Supplemental Special Instructions dated, June 15, 2007 approved June 19, 2007, which provided for the surveys included under U.S. Survey No. 974, and assignment instructions dated July 2, 2007.

Survey commenced: July 3, 2007

Survey completed: August 3, 2007

Chains

The following field notes represent the retracement and subdivision of U.S. Survey No. 974, into 3 lots.

U.S. Survey No. 974 was surveyed by Victor H. Wilhelm, U.S. Surveyor, in 1914. (A.A. Survey No. 48)

U.S. Survey No. 973 was surveyed by Victor H. Wilhelm, U.S. Surveyor, in 1914. (A.A. Survey No. 46)

U.S. Survey No. 974 was retraced and remonumented by Robert Q. Pickering, Cadastral Surveyor, in 1959.

U.S. Survey No. 3707 was surveyed by Robert Q. Pickering, Cadastral Surveyor, in 1959.

U.S. Survey No. 3707 was dependently resurveyed concurrently by Michael R. Stephen, Cadastral Surveyor, in 2007.

This survey was accomplished using the Global Positioning System (G.P.S.), using static relative positioning techniques, and conventional survey methods.

All surveyed lines and ties between corners are mean bearings.

All distances are horizontal distances reduced to their sea level equivalent.

This survey was executed in accordance with the specifications set forth in the Manual of Surveying Instructions, 1973, and Supplemental Special Instructions dated June 15, 2007.

The azimuth was determined from a control network using the Global Positioning System (G.P.S.), utilizing static relative positioning techniques, and refers to the true meridian.

Preliminary to the retracement, the original lines of U.S. Survey No. 974, were retraced and a diligent search was made for all evidence of the original corners and other calls of record. The retracement data were thoroughly verified and only the true line field notes are given herein.

The geographic position of the witness corner to corner No. 1, identical with the witness corner to corner No. 1, U.S. Survey No. 973, both meander corners, as determined from a tie to National Geodetic Survey Triangulation station "CHIL" is:

Latitude: 59° 19' 00.33" N., Longitude: 135° 33' 10.61" W.
NAD 27

The mean magnetic declination was determined from the U.S. Department of Defense World Magnetic Model 2005 and indicates a value of 22 3/4° East.

U.S. Survey No. 974

Chains	Preliminary Statement
	<p>The two lots subdivided from U.S Survey No. 973 during the course of this survey are those of the deed executed between the heirs of Sam Dennis and Olive Harrington dated October 29, 1965, approved by the Bureau of Indian Affairs on December 1, 1965.</p>
	<p>Beginning at the true point for cor. No. 1, identical with the true point for cor. No. 1, U.S. Survey No. 973, both meander cors., on the westerly shore of Lutak Inlet, at the line of mean high tide; not monumented due to the liability of destruction by ice and water action.</p>
	<p>S. 89° 58' W., on line 1-2, identical in part with line 1-2, U.S. Survey No. 973.</p>
0.64	<p>Apparent centerline of Lutak Highway on curve, asphalt surfaced, 33 lks. wide, bears S. 40° E. and N. 35° W.</p>
1.37	<p>The witness cor. to cor. No. 1, identical with the witness cor. to cor. No. 1, U.S. Survey No. 973, both meander cors., monumented with an iron post, 2 1/2 ins. diam., firmly set, projecting 2 ins. above the ground, with brass cap mkd. S974 C1 WC MC S973 C1 1959, from which an original bearing tree taken by Wilhelm in 1914</p>
	<p>A hemlock, 42 ins. diam., bears S. 40° W., 61 lks. dist., with a fully healed blaze.</p>
	<p>and a bearing tree taken by Pickering in 1959</p>
	<p>A spruce, 5 ins. diam., bears N. 84 1/4° W., 24 1/2 lks. dist., with fully healed blazes.</p>
	<p>From this point, National Geodetic Survey triangulation station "CHIL" bears N. 20° 34' E., 48.12 chs., monumented with a bronze disk, 3 1/4 ins. diam, firmly cemented flush in the top of a granite boulder, 9 ft. diam., 6 ft. high, mkd. CHIL 1943.</p>
6.17	<p>Cor. No. 2, U.S. Survey No. 973, monumented with an iron post, 2 1/2 ins. diam., firmly set, projecting 6 ins. above the ground, with brass cap mkd. S974 S973 C2 1959, from which the bearing trees taken by Pickering in 1959</p>
	<p>A hemlock, 16 ins. diam., bears N. 66° E., 62 lks. dist., with fully healed blaze.</p>
	<p>A dead and standing hemlock, 15 ins. diam., bears S. 64 1/2° E., 38 lks. dist., with marks S973C2BT visible on an unhealed blaze.</p>
	<p>and a new bearing tree</p>

Retracement of U.S. Survey No. 974

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Chains	
	<p>A hemlock, 18 ins. diam., bears S. 44 1/4° E., 59 1/2 lks. dist., mkd. X BT, with a 40d nail driven at the right side chaining point.</p> <p>Add the marks 2007 to brass cap.</p>
18.51	Creek, 15 lks. wide, 1 ft. deep, course N. 55° E.
23.08	<p>Cor. No. 2, monumented with an iron post, 2 1/2 ins. diam., loosely set, projecting 8 ins. above the ground, with brass cap mkd. S974 C2 1959, from which the bearing trees taken by Pickering in 1959</p> <p>A hemlock, 12 ins. diam., bears N. 74 1/2° E., 24 lks. dist., with fragmentary scribe marks visible on a partially healed blaze.</p> <p>A hemlock, 10 ins. diam., bears N. 11 1/4° W., 10 lks. dist., with fragmentary scribe marks visible on a partially healed blaze.</p> <p>Firm iron post in place, to project 8 ins. above the ground.</p> <hr/> <p>N. 0° 03' W., on line 2-3.</p>
11.35	Creek, 3 lks. wide, 2 ins. deep, course S. 70° E.
14.59	Gravel trail, 15 lks. wide, bears S. 30° E. and N. 30° W.
23.04	Creek, 8 lks. wide, 6 ins. deep, course S. 60° E.
24.41	<p>Cor. No. 3, identical with cor. No. 2, U.S. Survey No. 3707, monumented with a iron post, 2 1/2 ins. diam., loosely set, projecting 6 ins. above the ground, with brass cap mkd. S3707 C2 S974 C3 2007 1959, from which the original bearing trees taken by Wilhelm in 1914</p> <p>A dead hemlock, lying on its side, 16 ins. diam., bears N. 15° E., 13 1/2 lks. dist., with scribe marks X S483ABT visible on partially healed blazes.</p> <p>A dead and standing hemlock, 13 ins. diam., bears S. 12 1/2° W., 19 lks. dist., with scribe marks X S48C3AA visible on partially healed blazes.</p> <p>and a bearing tree take by Pickering in 1959</p> <p>A dead and standing hemlock, 16 ins. diam., bears S. 22 1/2° E., 49 1/2 lks. dist., with scribe marks S974BT visible on a partially healed blaze.</p> <p>and the bearing trees taken by Stephen in 2007</p> <p>A hemlock, 7 ins. diam., bears N. 63° E.,</p>

Retracement of U.S. Survey No. 974

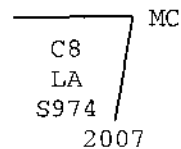
126

Chains	
	<p>33 1/2 lks. dist., mkd X BT on unhealed blazes.</p> <p>A spruce, 12 ins. diam., bears N. 24 1/2° W., 63 lks. dist., mkd. X BT on unhealed blazes.</p> <p>Firm iron post in place, projecting 6 ins. above the ground.</p> <hr/> <p>N. 89° 57' E., on line 3-4, identical with line 2-1, U.S. Survey No. 3707.</p>
14.39	<p>The witness cor. to cor. No. 4, identical with the witness cor. to cor. No. 1, U.S. Survey No. 3707, both meander cors., monumented with an iron post, 2 1/2 ins. diam., firmly set, projecting 2 ins. above the ground, with brass cap mkd. S3707 C1 LOT1C1 WC MC S974 C4 1959, from which the bearing trees taken by Pickering in 1959</p> <p>A spruce, 42 ins. diam., bears S. 28 1/2° W., 33 lks. dist. with fully healed blaze.</p> <p>A hemlock, 15 ins. diam., bears N. 46 3/4° W., 28 1/2 lks. dist. with fully healed blaze.</p>
15.36	<p>Apparent centerline of Lutak Highway, asphalt surfaced, 33 lks. wide, bears S. 40° E. and N. 40° W.</p>
16.25	<p>Intersect the westerly wall of a wood shed, 11 x 16 ft. The southwest corner of shed bears S. 6° 28' E., 2 lks. dist.</p>
16.41	<p>Intersect the southerly wall of aforementioned wood shed. The southeast corner of shed bears N. 83° 32' E., 8 1/2 lks. dist.</p>
17.42	<p>The true point for cor. No. 4, identical with cor. No. 1, U.S. Survey No. 3707, both meander cors., on the westerly shore of Lutak Inlet at the line of mean high tide; not monumented due to the liability of destruction by ice and water action.</p> <hr/> <p>Thence with the adjusted record meanders of Lutak Inlet at the line of mean high tide.</p> <p>S. 42° 21' E., 3.71 chs. S. 36° 03' E., 3.70 chs. S. 14° 44' E., 0.32 chs., At end of course, the true point for cor. No. 5, Lot A, a meander cor., on the westerly shore of Lutak Inlet, at the line of mean high tide, not monumented due to the liability of destruction by ice and water action.</p> <p>Thence with an informational traverse of Lutak Inlet.</p> <p>S. 14° 44' E., 2.32 chs. S. 12° 09' W., 4.90 chs. S. 6° 41' E., 0.18 chs., At end of course, the point for cor. No. 8, Lot A, a meander cor., on the</p>

Chains

westerly shore of Lutak Inlet, at the line of mean high tide.

Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 27 ins. in the ground, with brass cap mkd.



from which

A spruce, 13 ins. diam., bears S. 82 1/4° W., 42 1/2 lks. dist., mkd. X BT, with a 40d nail driven at the right side chaining point.

A spruce, 18 ins. diam., bears N. 16 1/4° W., 77 1/2 lks. dist., mkd. S974 LA C8 BT, with a 40d nail driven at the right side chaining point.

Deposit a magnet in a white plastic case at the base of the stainless steel post.

Located on level ground on the western edge of grassy tidal flats among scattered spruce.

Thence continue with the adjusted record meanders of Lutak Inlet at the line of mean high tide.

S. 6° 41' W., 4.72 chs.

S. 4° 35' E., 3.73 chs.

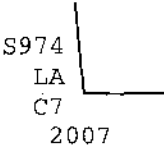
S. 30° 31' E., 3.20 chs., At end of course, true point for cor. No. 1., identical with the true point for cor. No. 1, U.S. Survey No. 973, both meander cors., hereinbefore described.

Subdivision of U.S. Survey No. 974

From the true point for cor. No. 5, Lot A, a meander cor., hereinbefore described.

Subdivision of U.S. Survey No. 974

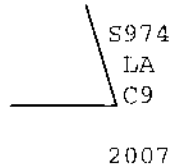
Chains	West, on line 5-6, Lot A.
0.40	<p>Point selected for the witness cor. to cor. No. 5, Lot A, a meander cor.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 27 ins. in the ground, with brass cap mkd.</p> <div data-bbox="727 485 896 661" data-label="Diagram"> <p style="text-align: center;">WC S974 LA C5 —————▶ MC 2007</p> </div> <p>from which</p> <p>A spruce, 20 ins. diam., bears S. 83° W., 37 lks. dist., mkd. X BT, with a 40d nail driven at the right side chaining point.</p> <p>A spruce, 14 ins. diam., bears N. 47 3/4° W., 78 1/2 lks. dist., mkd. X BT, with a 40d nail driven at the right side chaining point.</p> <p>The southeasterly corner of a shed 3 1/2 x 7 ft., bears N. 78° 12' W., 77 lks. dist., long side bears N. 6 1/2° E.</p> <p>The southeasterly corner of a shed 4 x 8 ft., bears N. 46° 39' W., 214 1/2 lks. dist., long side bears N. 88 1/2° W.</p> <p>Deposit a magnet in a white plastic case at the base of the stainless steel post.</p> <p>Located on level ground on the western edge of grassy tidal flats among spruce and hemlock.</p>
3.27	<p>Point for cor. No. 6, Lot A.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 28 ins. in the ground, with brass cap mkd.</p> <div data-bbox="708 1540 857 1717" data-label="Diagram"> <p style="text-align: center;">S974 LA C6 —————▶ MC 2007</p> </div> <p>from which</p> <p>A spruce, 13 ins. diam., bears N. 18 1/2° E., 108 1/2 lks. dist., mkd. S974 C6 LA BT, with a 40d nail driven at the right side chaining point.</p>

Chains	
	<p>A spruce, 20 ins. diam., bears N. 69 1/4° E., 33 1/2 lks. dist., mkd. S974 LA C6 BT, with a 40d nail driven at the right side chaining point.</p> <p>Deposit a magnet in a white plastic case at the base of the stainless steel post.</p> <p>Located 38 lks. dist., E. of apparent centerline of Lutak Highway, asphalt surfaced, 33 lks. wide, bears S. 20° E. and N. 20° W., on level ground among spruce, hemlock, and willow.</p> <hr/> <p>S. 16° 37' E., on line 6-7, Lot A.</p>
7.53	<p>Point for cor. No. 7, Lot A.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., set 28 ins. in the ground, with brass cap mkd.</p> <div style="text-align: center;">  </div> <p>from which</p> <p>A spruce, 14 ins. diam., bears S. 29 3/4° E., 25 1/2 lks. dist., mkd. S974 LA C7 BT, with a 40d nail driven at the right side chaining point.</p> <p>A spruce, 17 ins. diam., bears N. 7° W., 17 lks. dist., mkd. X BT, with a 40d nail driven at the right side chaining point.</p> <p>Deposit a magnet in a white plastic case at the base of the stainless steel post.</p> <p>Located 111 lks. dist., E. of apparent centerline of Lutak Highway, asphalt surfaced, 33 lks. wide, bears S. 5° E. and N. 5° W., on level ground among scattered spruce.</p> <hr/> <p>East, on line 7-8, Lot A.</p>
0.65	<p>Cor. No. 8, Lot A, a meander corner, hereinbefore described.</p> <p>From this point, the witness cor. to cor. No. 1, identical with the witness cor. to cor. No. 1, U.S. Survey No. 973, both meander cors., bears S. 0° 01' E., 11.16 chs. dist., hereinbefore described.</p> <hr/> <p>From the point for cor. No. 9, Lot A.</p>

Subdivision of U.S. Survey No. 974

Chains

Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 28 ins. in the ground, with brass cap mkd.



from which

A spruce, 21 ins. diam., bears S. 46 1/2° W., 71 1/2 lks. dist., mkd. S974 LA C9 BT, with a 40d nail driven at the right side chaining point.

A hemlock, 14 ins. diam., bears N. 74 1/2° W., 56 1/2 lks. dist., mkd. X BT, with a 40d nail driven at the right side chaining point.

The most southerly corner of a shed 7 x 8 1/2 ft., bears N. 11° 50' W., 304 lks. dist., long side bears N. 32 1/2° E.

Deposit a magnet in a white plastic case at the base of the stainless steel post.

Located 47 lks. dist., E. of apparent centerline of Lutak Highway, asphalt surfaced, 33 lks. wide, bears N. 5° W. and S. 5° E., on a moderate E. facing slope among scattered spruce, hemlock, and willow.

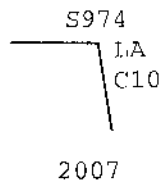
From this point, cor. No. 7, Lot A, bears East, 1.58 chs. dist., hereinbefore described.

N. 16° 37' W., on line 9-10, Lot A.

7.53

Point for cor. No. 10, Lot A.


Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 28 ins. in the ground, with brass cap mkd.



from which

A spruce, 24 ins. diam., bears N. 59 1/2° E., 32 lks. dist., mkd. S974 LA C10 BT, with a 40d nail driven at the right side chaining point.


Subdivision of U.S. Survey No. 974

Chains	
	<p>A spruce, 13 ins. diam., bears S. 2 1/2° E., 31 lks. dist., mkd. X BT, with a 40d nail driven at the right side chaining point.</p> <p>Deposit a magnet in a white plastic case at the base of the stainless steel post.</p> <p>Located 118 lks. dist., W. of apparent centerline of Lutak Highway, asphalt surfaced, 33 lks. wide, bears S. 20° E. and N. 20° W., on level ground among scattered spruce, hemlock, willow, alder, and devil's club.</p> <hr/> <p>West, on line 10-11, Lot A.</p>
1.60	<p>Point for cor. No. 11, Lot A.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 28 ins. in the ground, with brass cap mkd.</p> <div data-bbox="857 868 1019 1046" style="text-align: center;"> <p>S974 LA C11</p>  <p>2007</p> </div> <p>from which</p> <p>A hemlock, 18 ins. diam., bears S. 12° E., 45 lks. dist., mkd. X BT, with a 40d nail driven at the right side chaining point.</p> <p>A hemlock, 14 ins. diam., bears N. 19 1/2° W., 82 lks. dist., mkd. S974 LA C11 BT, with a 40d nail driven at the right side chaining point.</p> <p>Deposit a magnet in a white plastic case at the base of the stainless steel post.</p> <p>Located on level ground among scattered spruce, hemlock, willow, alder, and devil's club.</p> <hr/> <p>S. 16° 37' E., on line 11-12, Lot A.</p>
6.98	<p>Intersect the northwesterly wall of a cabin, 9 x 43 ft. The most westerly corner of cabin bears S. 53 1/3° W., 22 1/2 lks. dist., long side bears N. 53 1/4° E.</p>
7.12	<p>Intersect the southeasterly wall of aforementioned cabin. The most southerly corner of cabin bears S. 53° 20' W., 17 1/2 lks. dist.</p>
7.53	<p>Point for cor. No. 12, Lot A.</p>

Chains

Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 28 ins. in the ground, with brass cap mkd.

S974
LA
C12



2007

from which

A spruce, 24 ins. diam., bears S. 18 3/4° E.,
25 lks. dist., mkd. S974 C12 LA BT, with
a 40d nail driven at the right side chaining point.

A spruce, 29 ins. diam., bears S. 52 3/4° W.,
33 1/2 lks. dist., mkd. S974 LA C12 BT, with
a 40d nail driven at the right side chaining point.

Deposit a magnet in a white plastic case at the base of the stainless steel post.

Located on level ground among scattered spruce, hemlock, willow, and alder.

East, on line 12-9, Lot A.

1.60

Cor. No. 9, Lot A, hereinbefore described.

General Description

U.S. Survey No. 974, is situated on the western shore of Lutak Inlet, approximately 7 miles northwesterly of Haines, Alaska, within Townships 29 South, Ranges 58 and 59 East, Copper River Meridian, Alaska.

The land lies mostly on easterly to northeasterly slopes rising from the level shores of Lutak Inlet. The southeasterly corner ascends a moderate easterly slope and attains an elevation of approximately 600 feet above sea level at corner No. 3.

Vegetation consists of mature stands of spruce and hemlock, with underbrush of willow and alder in the lower elevations.

Access to the survey was by truck.

CERTIFICATE OF SURVEY

I, John D. Taivalkoski, Cadastral Surveyor, HEREBY CERTIFY upon honor that, in pursuance of supplemental special instructions bearing the date of the 15th day of June, 2007, I have retraced and subdivided U.S. Survey No. 974, located on the western shore of Lutak Inlet, approximately 7 miles northwesterly of Haines, Alaska, within Townships 29 South, Ranges 58 and 59 East, of the Copper River Meridian, in the State of Alaska, which are represented in the foregoing field notes as having been executed by me and under my direction; and that said survey has been made in strict conformity with said special instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

4-07-08

(Date)

John Taivalkoski

(Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT
Anchorage, Alaska

The foregoing field notes of U.S. Survey No. 974, within Townships 29 South, Ranges 58 and 59 East, Copper River Meridian, Alaska, executed by John D. Taivalkoski, Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

May 16, 2008
(Date)

John Sample

(Deputy State Director for Cadastral Survey, Alaska)

~~CERTIFICATE OF TRANSCRIPT~~

I CERTIFY That the foregoing transcript of the field notes of the above described survey of U.S. Survey No. 974, within Townships 29 South, Ranges 58 and 59 East, Copper River Meridian, Alaska, is a true copy of the original field notes.

~~(Date)~~

~~(Deputy State Director for Cadastral Survey, Alaska)~~