

Appendix C MINERAL ORDERS

STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF LAND AND WATER MANAGEMENT

MINERAL ORDER 601

Closing Lands to Mineral Entry Opening Lands to Mineral Entry

I. Name Tanana Basin

II. This mineral order is based upon the attached Commissioner's Finding and the written documentation contained in:

Area Plan: Tanana Basin Area Plan - 1990 Update Dated 11/30/90

Management Plan: _____ Dated _____

Site Specific Plan: _____ Dated _____

Other: _____ Dated _____

III. <u>File Number</u>	<u>Legal Description</u>	<u>Acreage</u>
MCO 601	SEE ATTACHED MAPS AND ATTACHMENT 1	SEE ATTACHMENT 2

IV. This order is subject to valid existing rights and issued under the authority granted by AS 38.05.185 - 38.05.275 to the Department of Natural Resources. The above described lands are hereby closed opened to entry under the locatable mineral and mining laws of the State of Alaska.

Concur: *Sam Dustafan* 11-29-90
Director Date
Division of Land and Water Management

Concur: *Samuel M. Ruppel* 11/29/90
Director Date
Division of Mining

Approved: *R. J. Luoma* 12/3/90
Commissioner Effective Date

10-1019 (01-89)

**TANANA BASIN AREA PLAN
FINDING OF THE COMMISSIONER
FOR MINERAL CLOSING ORDER #601
A.S. 38.05.185 (a)**

The Tanana Basin Area Plan (TBAP), developed in accordance with A.S. 38.04.065, identifies certain areas to be closed to new locatable mineral entry because mining activity would not be compatible with significant surface uses (A.S. 38.05.185). The areas to be closed are state-owned or state-selected lands at: 1) The Delta/Clearwater River and adjacent uplands, 2) the mouth of the Delta River and adjacent uplands, and 3) the west end of Fielding Lake and adjacent uplands. These are areas of significant surface use, and the state is committed to take all reasonable actions necessary to preclude the creation of any new third-party interests in these lands, including mining claims and leasehold locations. These closures have been given public review through the Tanana Basin Area planning process.

1) The Delta/Clearwater River

This closure encompasses both the Delta-Clearwater River and Clearwater Lake. Clearwater Lake, and the lower Delta-Clearwater River are in a region of upwelling water from the alluvial fan of the Delta and Gerstle Rivers. This water makes these areas some of the few waterbodies in interior Alaska that remain open year-round. As a result, they are extremely important as spawning areas (and for Clearwater Lake, as a Coho salmon rearing area) for late-run salmon. In addition, Clearwater Lake provides nesting habitat and is an important spring staging area for waterfowl.

The Delta-Clearwater River is recommended for legislative designation as a State Recreation River because of its high recreation values and its importance to the fish and wildlife habitat.

The Delta/Clearwater River, Clearwater Lake, and the adjacent uplands are crucial to the continued health of these fish and wildlife populations. Any mining activity in these uplands or shorelands would have a detrimental impact on the fish and wildlife populations and public recreation use of that area. Mining in the above-referenced areas is incompatible with the fish and wildlife population's continued existence, and is contrary to Tanana Basin Area Plan land management policies for fish and wildlife habitat.

2) The Delta River.

The lower mile of the Delta River is fed by upwelling spring water after summer flows in the river subside. This area of flowing clean water is one of the few spawning areas available for fall run chum salmon. This area serves as one of the two major fall chum spawning areas within the Yukon drainage.

Because of its importance for salmon habitat, and to protect the habitat from potentially incompatible uses, this area is recommended for legislative designation as a State Critical Habitat Area.

The mouth of the Delta River and the adjacent uplands are crucial to the continued health of the Yukon chum salmon population. Any mining activity in these uplands or shorelands would have a detrimental impact on the fish populations of that area. Mining in the above-referenced areas is incompatible with the fish population's continued existence, and is contrary to Tanana Basin Area Plan land management policies for fish and wildlife habitat.

3) Fielding Lake.

This highly scenic area provides opportunities for both recreational activity on Fielding Lake and year round backcountry exploration. Due to the lack of trees, high water table and permafrost, the area is very susceptible to degradation. The area is currently managed to protect the integrity of the landscape and maintain recreational values.

To recognize these outstanding recreation values, Fielding Lake and adjacent uplands were recommended for legislative designation in the 1985 Tanana Basin Area Plan and were closed to mineral entry. During the 1990 update of the Tanana Basin Area Plan, the boundaries of this recommendation were changed to include approximately 3,520 acres to the west of Fielding Lake to include the west end of the lake and adjacent uplands. Any mining activity in these uplands would have a detrimental impact on the recreational and scenic values of that area. Mining in the above-referenced area is incompatible with these recreation and scenic values and is contrary to Tanana Basin Area Plan land management policies for recreation.

Therefore it is my finding, in accordance with A.S. 38.05.185(a), that the best interests of the state and its residents are served by the closure to entry under the locatable mineral and mining laws of the State of Alaska of the above areas, more particularly described in Mineral Closing Order #601. This closure is subject to valid existing rights.



COMMISSIONER
Department of Natural Resources

12/3/90
Date

**ATTACHMENT 1
LEGAL DESCRIPTIONS OF LANDS CLOSED TO NEW MINERAL ENTRY
FOR MINERAL ORDER #601**

1). DELTA/CLEARWATER RIVER

9S 11E, F.M.

- Sec. 28: SE1/4NW1/4
E1/2SW1/4,
that portion of the SE1/4 west of the left bank of
the Tanana River,
that portion of the NE1/4 west of the left bank of
the Tanana River;
- Sec. 32: SE1/4NE1/4
E1/2SE1/4;
- Secs. 33-36: All.

10S 11E, F.M.

- Sec. 1: All
- Sec. 2: N1/2, NE1/4SW1/4, N1/2NW1/4SW1/4, E1/2SE1/4,
NW1/4SE1/4, N1/2SW1/4SE1/4, N1/2S1/2SW1/4SE1/4;
- Sec. 3: N1/2, NE1/4NE1/4SE1/4;
- Sec. 4: Lots 1-3, 13-15, and all of Clearwater Lake within
the N1/2.

10S 12E, F.M.

- Sec. 2: Lot 1;
- Sec. 3: Lots 1 and 2;
- Sec. 4: Lots 1-4;
- Sec. 5: Lots 1-4, NW1/4SW1/4, S1/2SW1/4;
- Sec. 6: Lots 1-7, SW1/4NE1/4, SE1/4NW1/4, E1/2SW1/4, SE1/4;
- Sec. 7: Lots 1, 4, 5, 6, 7, 8, 9, 11, 16, USS 5477,
N1/2NE1/4, SW1/4NE1/4, NE1/4NW1/4, and Clearwater
Creek;
- Sec. 8: N1/2, N1/2SE1/4, SE1/4SE1/4, Lots 1, 2, 5, and 7
and Clearwater Creek;
- Sec. 9: N1/2, N1/2S1/2, SW1/4SW1/4, Lots 1, 2, and 3 and
Clearwater Creek;
- Sec. 10: Lots 1-5, S1/2NE1/4, S1/2NW1/4, NW1/4NW1/4,
N1/2SW1/4, SE1/4SW1/4, SE1/4, and Clearwater Creek;
- Sec. 11: Lots 1-4, S1/2N1/2, S1/2;
- Sec. 12: Lots 1-5, SW1/4NE1/4, S1/2NW1/4, S1/2;
- Secs. 13-15: All
- Sec. 16: Lots 4, 6 and Clearwater Creek;
- Sec. 17: Lots 1, 2, 3, 6 and Clearwater Creek;
- Secs. 23-25: All
- Sec. 26: E1/2, NE1/4NW1/4;
- Sec. 35: NE1/4, E1/2NW1/4;
- Sec. 36: N1/2, SE1/4, E1/2SW1/4, NW1/4SW1/4.

MINERAL ORDER #601

ATTACHMENT 1 - PAGE 2

1). DELTA/CLEARWATER RIVER (continued)

10S 13E, F.M.

- Sec. 7: SW1/4, W1/2SE1/4, SE1/4SE1/4,
that portion of the S1/2N1/2 south of the left bank
of the Tanana River,
that portion of the NE1/4SE1/4 south of the left
bank of the Tanana River;
- Sec. 8: that portion of the SW1/4 south of the left bank of
the Tanana River;
that portion of the SE1/4 south of the left bank of
the Tanana River;
- Secs. 17-20: All;
- Sec. 28: S1/2, NW1/4,
- Secs. 29-33: All;
- Sec. 34: W1/2.

11S 13E, F.M.

- Secs. 3-6: All;
- Sec. 7: Tracts A, B, and C;
- Sec. 8: All;
- Sec. 9: W1/2, Tracts A and B;
- Sec. 10: NW1/4NW1/4NW1/4;
- Sec. 16: NW1/4NW1/4;
- Sec. 17: Tracts A and B;
- ASLS 78-93: Tract X (Sawmill Creek Reserve).

2). DELTA RIVER

T9S R10E, F.M.

- Section 7: N1/2
N1/2S1/2

Section 8:
that portion of the SW1/4NW1/4NW1/4 lying southwesterly of the
Richardson Highway,
Lots 13, 14, 15, 16, 17, 22, 23, 24, 25, 26, 27, 29, 30, 31 &
32,
that portion of the Delta River lying in the NW1/4SW1/4 and in
the NW1/4, E1/2NW1/4SW1/4.

MINERAL ORDER #601

ATTACHMENT 1 - PAGE 3

3). FIELDING LAKE

T20S R10E, F.M.
Section 13: SE1/4
Section 24: S1/2
 NE1/4
Section 25: all
Section 26: SE1/4
Section 35: E1/2
Section 36: all

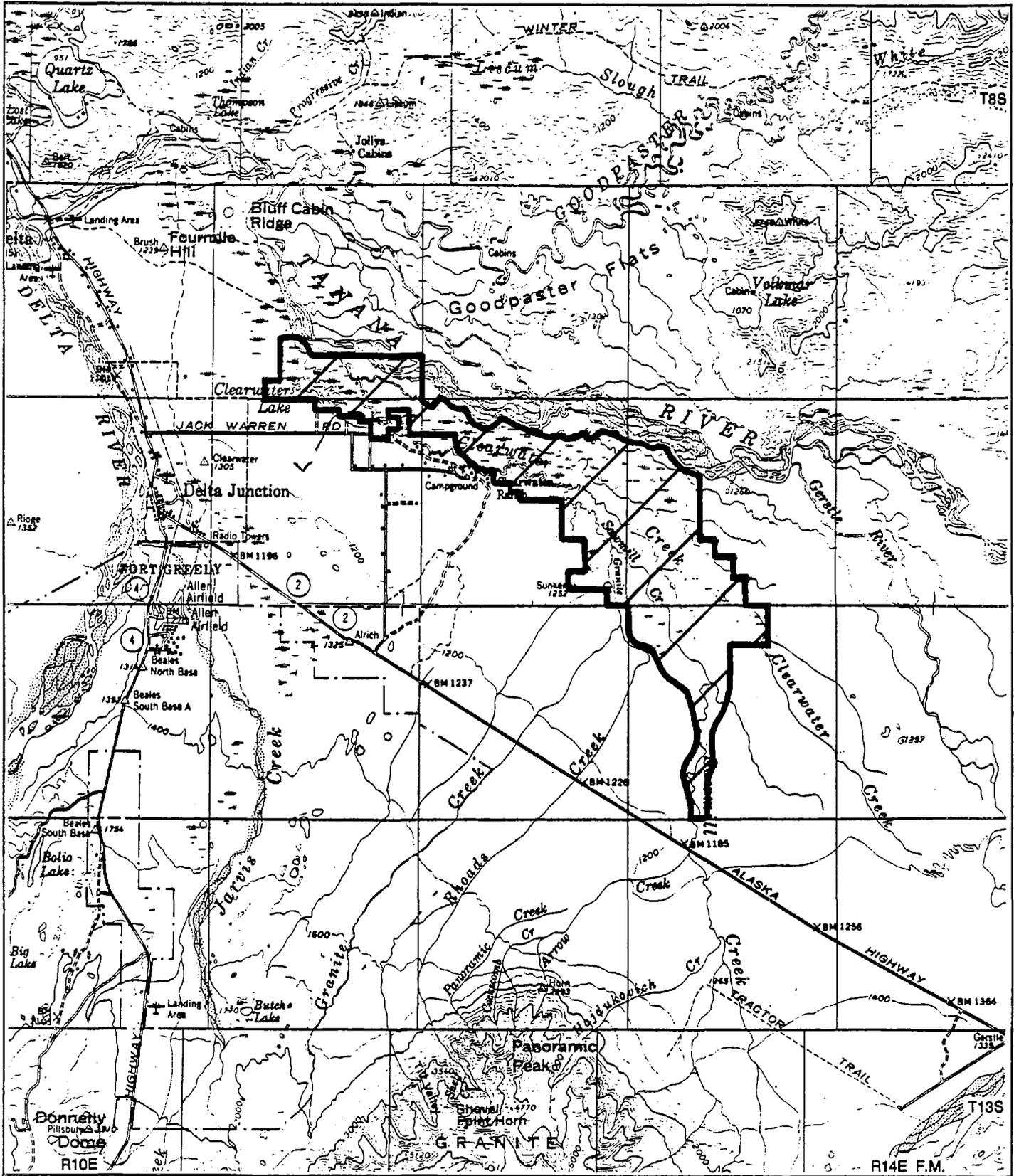
T21S R10E, F.M.
Section 1: all
Section 2: E1/2
Section 12: NE1/4

ATTACHMENT 2
DESCRIPTIONS AND LOCATIONS
FOR MINERAL CLOSING ORDER #601

<u>Township & Range</u>	<u>Tanana Basin Area Plan Subunit</u>	<u>Name</u>	<u>Acreege</u>
T9S R11E FM T10S R11E FM T10S R12E FM T10S R13E FM T11S R13E FM	7J1	Delta/Clearwater River	15,950
T9S R10E FM	7G3	Delta River	547
T20S R10E FM T21S R10E FM	5B1	Fielding Lake	3,520
TOTAL			20,017

Tanana Basin Area Plan

DELTA/CLEARWATER RIVER



LEGEND

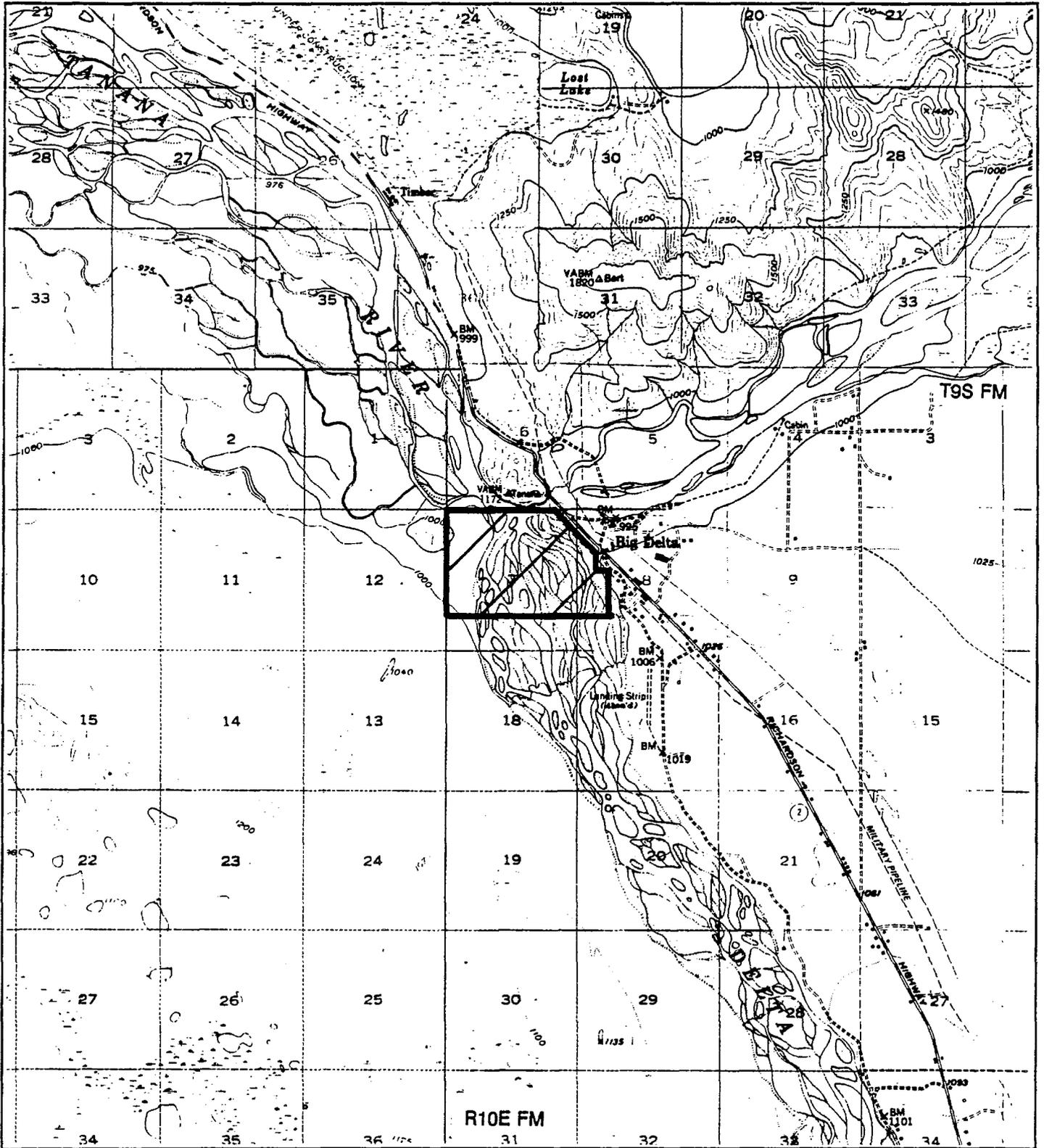
Mineral Closing Order

USGS 1:250,000 Big Delta, Mt. Hayes

scale in miles

Tanana Basin Area Plan

DELTA RIVER

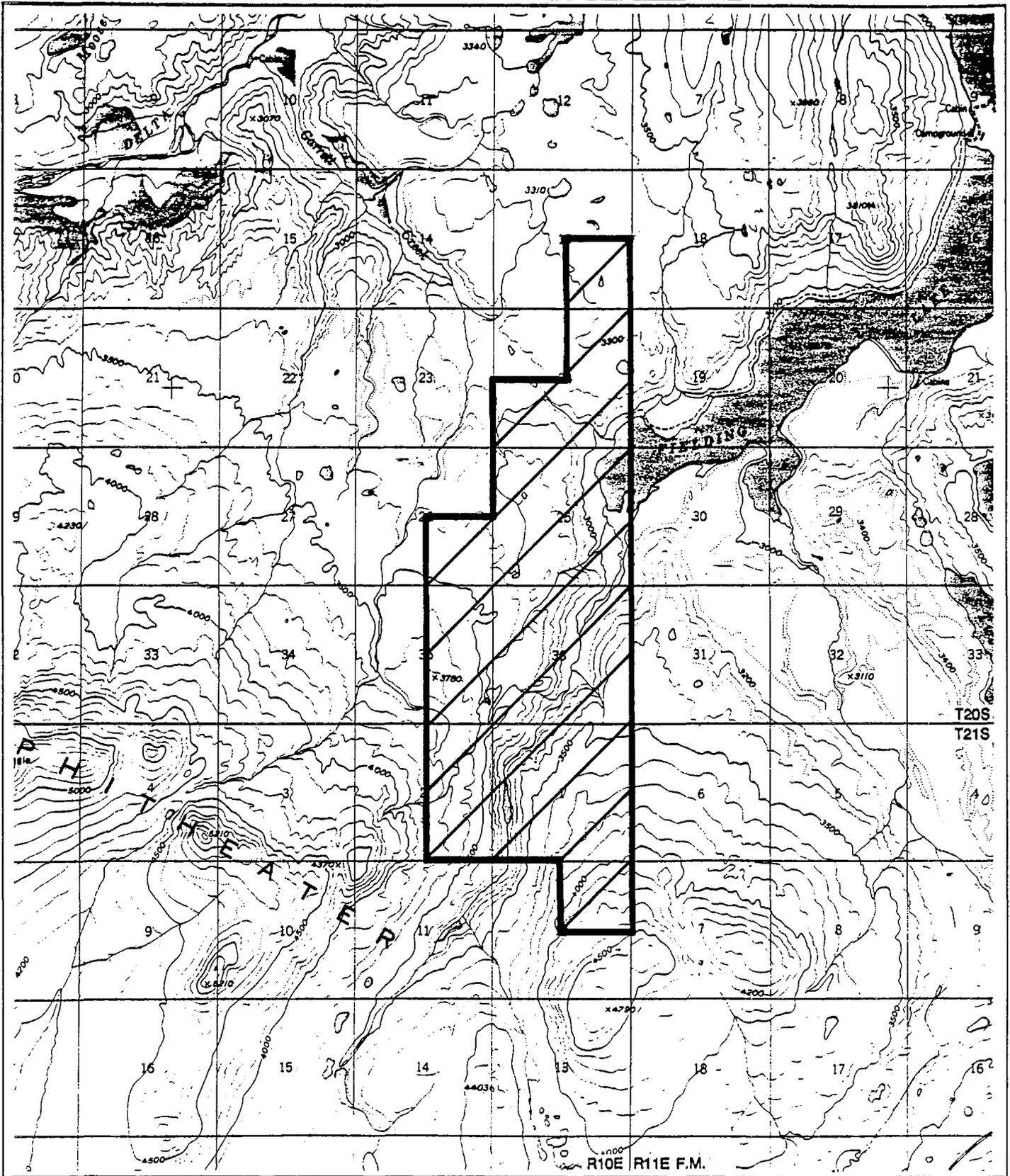


LEGEND

 Mineral Closing Order

USGS 1:63,360 Big Delta A-4
1 inch = 1 mile

Tanana Basin Area Plan
FIELDING LAKE



LEGEND

 Mineral Closing Order

USGS 1:63,360 Mt. Hayes A-4
 1 inch = 1 mile

**TANANA BASIN AREA PLAN
FINDING OF THE COMMISSIONER
FOR MINERAL OPENING ORDER #483 Amendment 1
A.S. 38.05.185 (a)**

To recognize its outstanding recreation values, the 1985 Tanana Basin Area Plan recommended a portion of Robertson River and adjacent uplands for legislative designation as a state recreation area. The plan also determined that mining within this corridor was incompatible with these recreation values, and closed this portion of the Robertson River to mineral entry by Mineral Order #483.

During the 1990 update of the Tanana Basin Area Plan, it was recognized that a much larger area was used for recreation than originally identified in 1985. Public support for legislative designation was much stronger in other locations in the planning area where potential conflicts with mineral entry are much more significant. It was determined that the recreational values of the Robertson River area could be adequately protected without legislative designation and mineral closure.

Therefore it is my finding, in accordance with A.S. 38.05.185(a), that the best interests of the state and its residents are served by the Opening to entry under the locatable mineral and mining laws of the State of Alaska of the above areas, more particularly described in Mineral Opening Order #483 Amendment 1.



COMMISSIONER
Department of Natural Resources

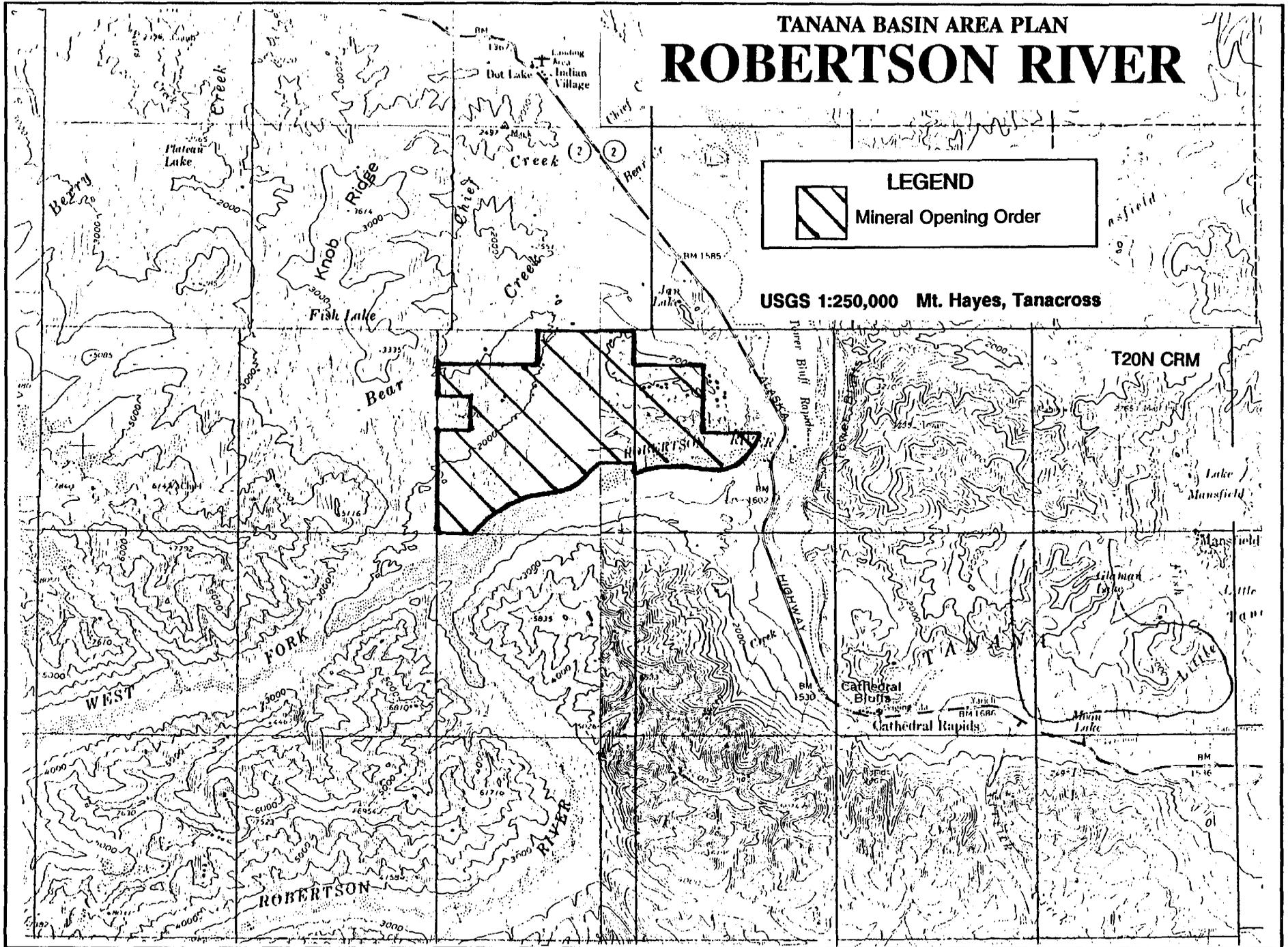
12/3/90
Date

TANANA BASIN AREA PLAN ROBERTSON RIVER

LEGEND

 Mineral Opening Order

USGS 1:250,000 Mt. Hayes, Tanacross



**TANANA BASIN AREA PLAN
FINDING OF THE COMMISSIONER
FOR MINERAL OPENING ORDER #510 Amendment 1
A.S. 38.05.185 (a)**

To recognize its outstanding recreation and scenic values, the Tanana Basin Area Plan (TBAP) recommended the Nenana River Corridor for legislative designation as a state recreation river. TBAP also determined that mining within this corridor was incompatible with these recreation and scenic values, and closed the Nenana River Corridor to mineral entry by Mineral Order #510.

During the 1990 update of TBAP, it was determined that these recreational and scenic values of that portion of the Nenana River Corridor north of Healy were significantly less than for the remainder of the river corridor. This portion of the river corridor sees less recreational activity and is considerably more developed than the corridor south of Healy. The 1990 update of TBAP determined that the Nenana River Corridor north of Healy did not warrant legislative designation, and that mining could be compatible with its current uses.

Therefore it is my finding, in accordance with A.S. 38.05.185(a), that the best interests of the state and its residents are served by the Opening to entry under the locatable mineral and mining laws of the State of Alaska of the above areas, more particularly described in Mineral Opening Order #510 Amendment 1.



COMMISSIONER
Department of Natural Resources

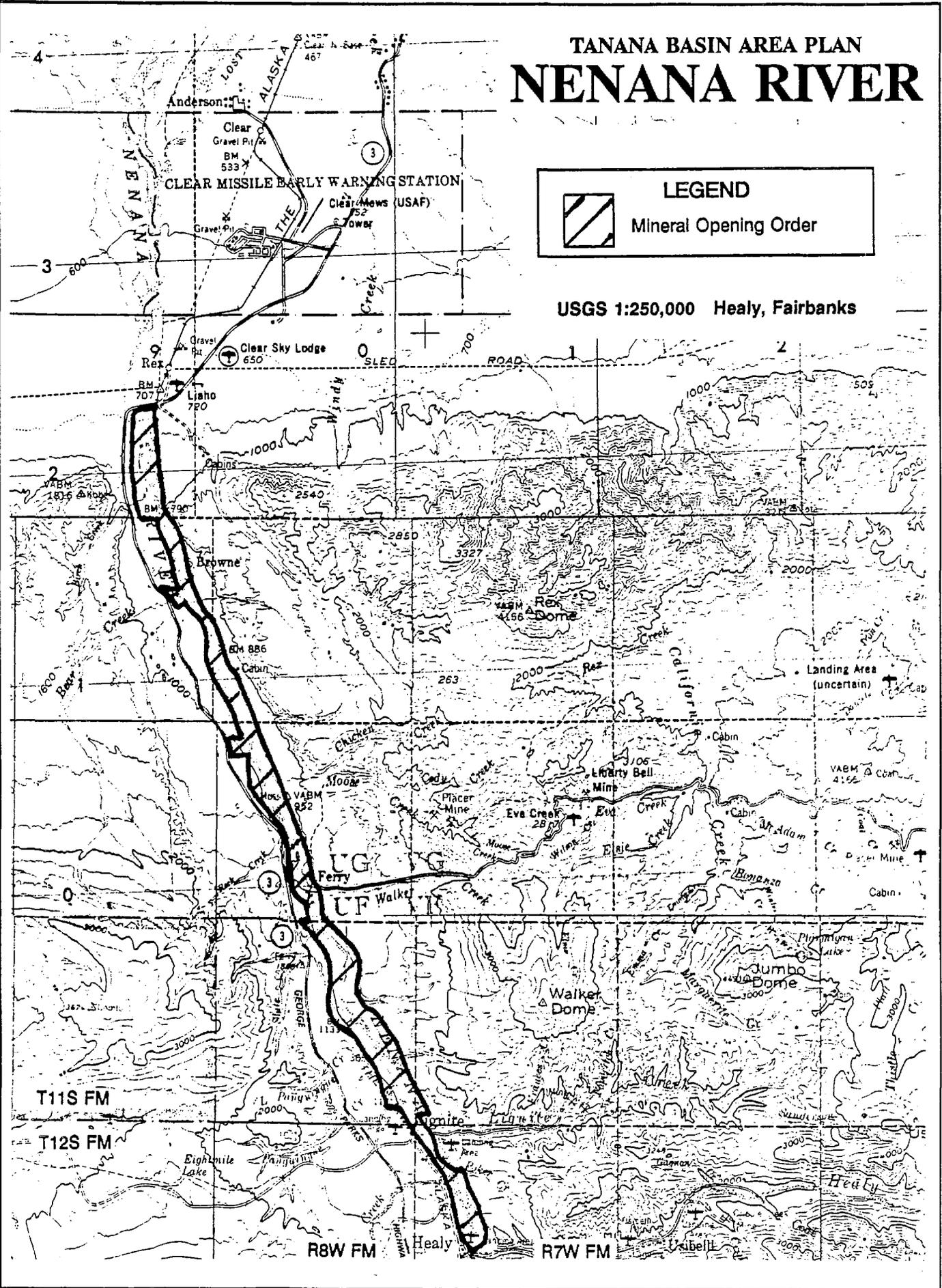
12/3/90
Date

TANANA BASIN AREA PLAN NENANA RIVER

LEGEND

 Mineral Opening Order

USGS 1:250,000 Healy, Fairbanks



STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF LAND AND WATER MANAGEMENT

MINERAL LEASEHOLD LOCATION ORDER NO. 14

1.0 ORDER RESTRICTING TO LEASEHOLD LOCATION

After the effective date of this order (see paragraph 5), and unless otherwise closed to mineral entry, rights to locatable minerals in the land covered by this order may be acquired only under the leasehold location system, AS 38.05.205, and may not be acquired by locating a mining claim under AS 38.05.195.

2.0 THE LAND SUBJECT TO THE TERMS OF THIS ORDER IS DESCRIBED AS FOLLOWS:
(Attach additional sheets as necessary.)

<u>Legal Description</u>	<u>Acreage</u>
SEE ATTACHED MAP AND ATTACHMENT 1	59,520

3.0 AUTHORITY FOR THIS ORDER

This order is issued under the authority granted by AS 38.05.185 to the Department of Natural Resources for the State of Alaska.

4.0 FINDINGS AND DETERMINATIONS

The following findings and determinations are made: (Only those findings and determinations which are preceded by a checkmark in the box are applicable to this order.)

[X] 4.1 The land described in paragraph 2.0 is found and determined to be subject to potential use conflicts which require that mining be allowed only under written leases issued under AS 38.05.205. These potential use conflicts include, but are not necessarily limited to, the following: (Attach additional sheets if necessary.)

These lands encompass 14 mineral licks which are heavily used by Dall sheep and other wildlife. Although the specific biological function of mineral licks for wildlife is not known for each site, their intensive and regular use suggests an important role. Areas adjacent to the mineral licks support Dall sheep resting areas and heavily-used converging trails. Mineral licks can also be an indicator of mineral value.

Because of the potential mineralized nature of these areas, mining may be an important use of these lands. Mining activity within these lands must avoid direct impacts on the licks and the trails leading to the licks, and mitigate other negative impacts. Leasehold location is an appropriate measure to allow mineral development to occur with minimal impacts on the mineral licks.

[] 4.2 The land described in paragraph 2.0 is found and determined to have been mineral in character at the time of state selection.

5.0 EFFECTIVE DATE

This order is effective as of:

[] 5.1 _____ (thirty days after the first public notice of this action).

[X] 5.2 The following (later) date: November 30, 1990.

Dated: 11-29-90

Ray Gustafson
Director, Division of Land & Water Management

Dated: 11/29/90

Samuel M. Pennington
Director, Division of Mining

Approved and ratified by:
COMMISSIONER, DEPARTMENT OF NATURAL RESOURCES

Dated: 12/3/90

R J [Signature]

ATTACHMENT 1
LEGAL DESCRIPTION OF LANDS SUBJECT TO LEASEHOLD LOCATION
FOR MINERAL LEASEHOLD LOCATION ORDER #14

MINERAL LICKS**T13S R12E, F.M.**

Section 31: E1/2
Section 32: all
Section 33: all
Section 34: W1/2

T14S R11E, F.M.

Section 11: S1/2
Section 12: S1/2
Section 13, 14: all
Section 23, 24: all
Section 25: N1/2
Section 26: N1/2
Section 31: SE1/4
Section 32: S1/2
Section 33: S1/2
 NE1/4
Section 34: all
Section 35: all
Section 36: W1/2

T14S R12E, F.M.

Section 3: W1/2
Section 4, 5: all
Section 6: E1/2
Section 7: E1/2
 SW1/4
Section 8, 9: all
Section 10: S1/2
 NW1/4
Section 11: S1/2
Section 12: S1/2
Section 13-15 all
Section 18, 19: all
Section 22-24: all
Section 25: N1/2
Section 26: N1/2
Section 27: N1/2
Section 30: N1/2

MINERAL LICKS (Continued)

T15S R10E, F.M.
Section 9: S1/2
Section 10: S1/2
Section 11: S1/2
Section 14-16: all
Section 21-27: all
Section 34-36: all

T15S R11E, F.M.
Section 1: W1/2
Section 2-5: all
Section 6: E1/2
Section 7: E1/2
Section 8-11: all
Section 12: W1/2
Section 15: NW1/4
Section 16: N1/2
Section 17: N1/2
Section 18: NE1/4

T15S R12E, F.M.
Section 19-21: all
Section 28-33: all

T15S R14E, F.M.
Section 22: E1/2
Section 23-26: all
Section 27: E1/2
Section 34: E1/2
Section 35, 36: all

T15S R15E, F.M.
Section 19: W1/2
Section 30: W1/2
Section 31: W1/2

T16S R11E, F.M.
Section 3-10: all
Section 15: N1/2
Section 16: N1/2
Section 17: N1/2
Section 18: N1/2

T16S R16E, F.M.
Section 31: E1/2
Section 32, 33: all
Section 34: W1/2

T17S R12E, F.M.
Section 19-21: all
Section 28-33: all

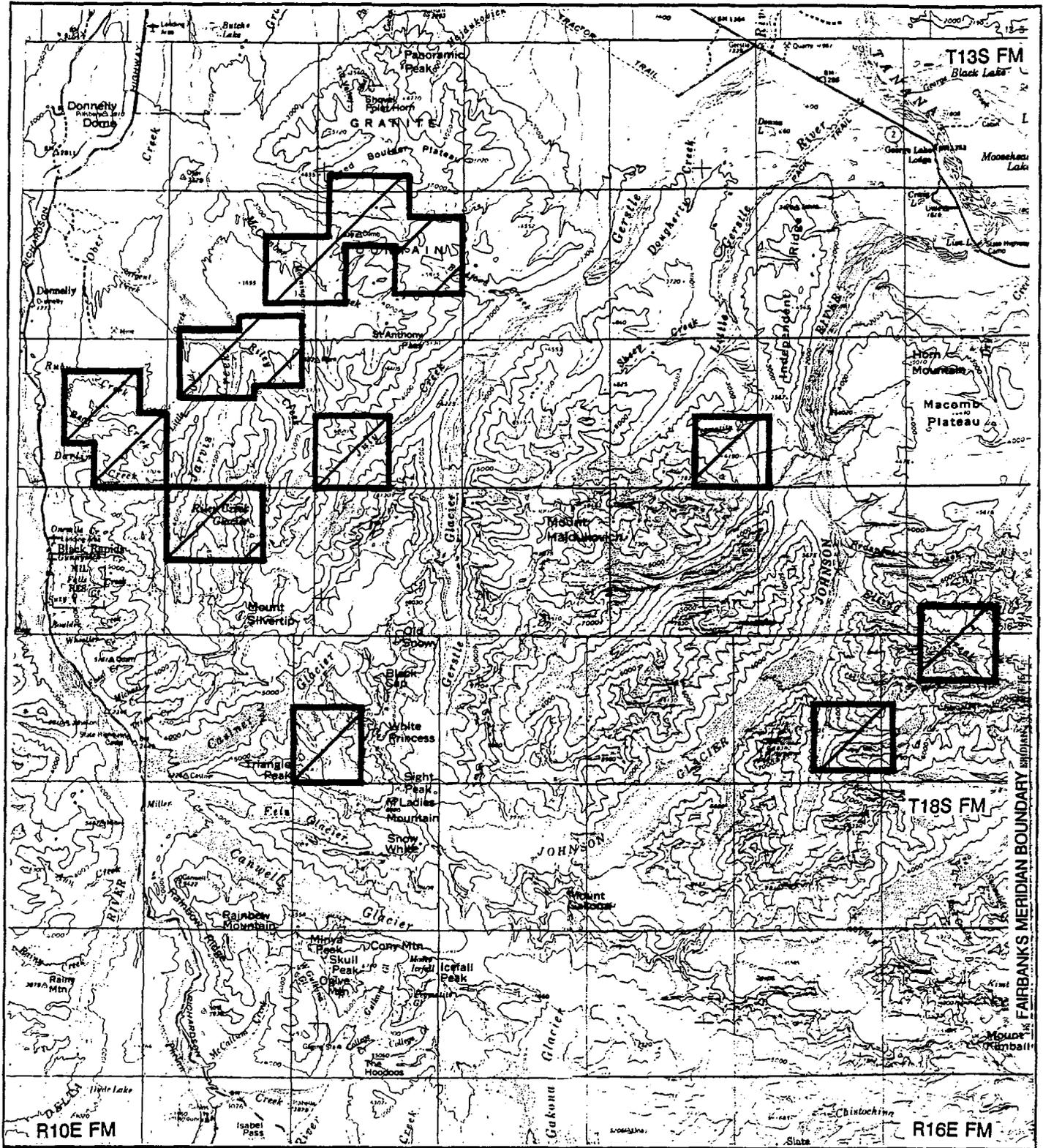
MINERAL LICKS

T17S R15E, F.M.
Section 13: S1/2
Section 14: S1/2
Section 15: SE1/4
Section 22: E1/2
Section 23-26: all
Section 27: E1/2
Section 34: NE1/4
Section 35: N1/2
Section 36: N1/2

T17S R16E, F.M.
Section 2: W1/2
Section 3,4 all
Section 5: E1/2
Section 8: E1/2
Section 9,10 all
Section 11: W1/2
Section 18: SW1/4
Section 19: W1/2
Section 30: W1/2
Section 31: NW1/4

Tanana Basin Area Plan

MINERAL LICKS



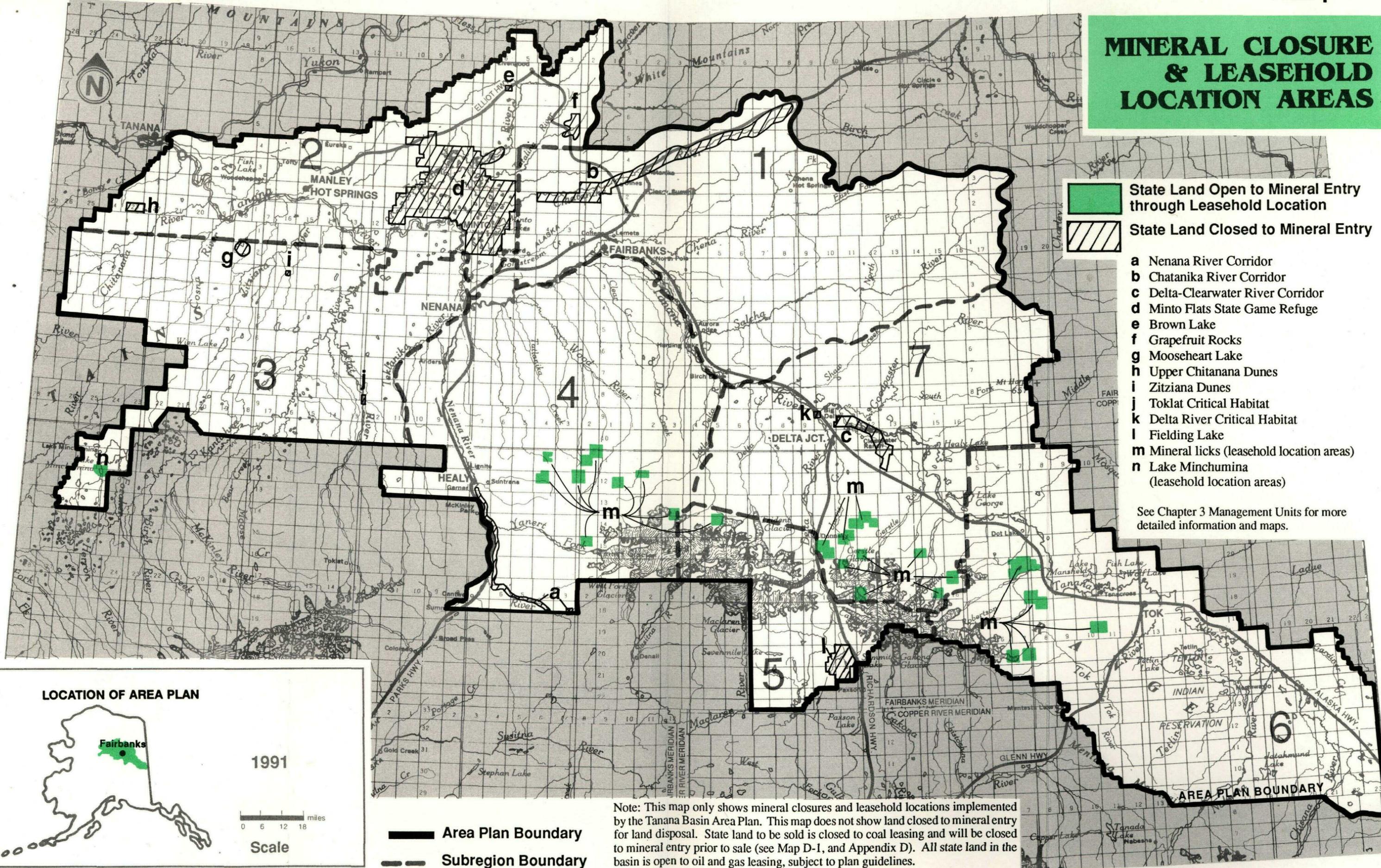
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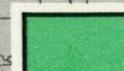
Leasehold Location.
 Order

USGS 1:250,000 Mt. Hayes

 scale in miles

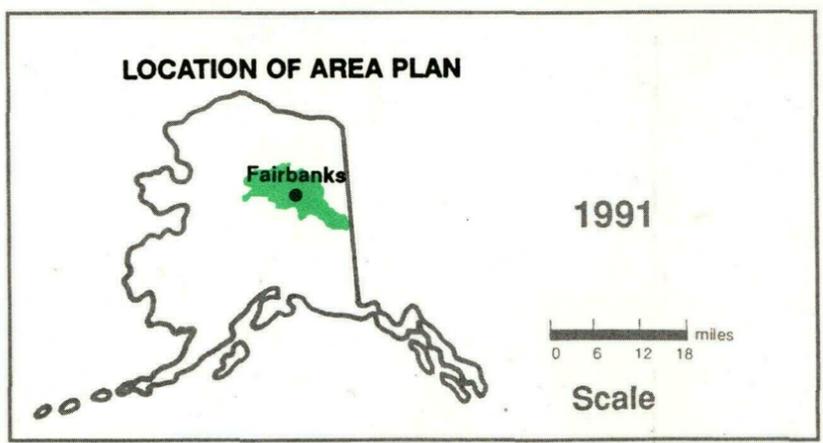
MINERAL CLOSURE & LEASEHOLD LOCATION AREAS



-  State Land Open to Mineral Entry through Leasehold Location
-  State Land Closed to Mineral Entry

- a Nenana River Corridor
- b Chatanika River Corridor
- c Delta-Clearwater River Corridor
- d Minto Flats State Game Refuge
- e Brown Lake
- f Grapefruit Rocks
- g Mooseheart Lake
- h Upper Chitanana Dunes
- i Zitziana Dunes
- j Toklat Critical Habitat
- k Delta River Critical Habitat
- l Fielding Lake
- m Mineral licks (leasehold location areas)
- n Lake Minchumina (leasehold location areas)

See Chapter 3 Management Units for more detailed information and maps.



-  Area Plan Boundary
-  Subregion Boundary

Note: This map only shows mineral closures and leasehold locations implemented by the Tanana Basin Area Plan. This map does not show land closed to mineral entry for land disposal. State land to be sold is closed to coal leasing and will be closed to mineral entry prior to sale (see Map D-1, and Appendix D). All state land in the basin is open to oil and gas leasing, subject to plan guidelines.