	3/25/88 [REVISOR ] DSN/AT AR1249
1 2	Department of Natural Resources
2	Adopted Dermanopt Dules Deleties to Websili wingst
3 4	Adopted Permanent Rules Relating to Metallic Mineral Leasing
5	Rules as Adopted
6	PERMITS AND LEASES FOR METALLIC MINERALS,
7	EXCEPT IRON ORES AND TACONITE ORES
8	6125.0100 PURPOSE.
9	The purpose of parts 6125.0100 to 6125.0700 is to promote
10	and regulate prospecting for, mining, and removing ores that are
11	primarily valuable for their metallic minerals content, and the
12	rules hereunder shall be construed to carry out that purpose.
13	6125.0200 DEFINITIONS.
14	Subpart 1. Scope of terms. For purposes of parts
15	6125.0100 to 6125.0700, the following words have the meanings
16	given them.
17	Subp. 1a. Associated mineral products. "Associated
18	mineral products" means those intermingled or associated
19	materials and substances recovered from each ton of crude ore
20	mined from the mining unit that are excluded from the definition
21	of metallic minerals.
22	Subp. 2. Commissioner. "Commissioner" means the
23	commissioner of natural resources of the state of Minnesota, or
24	the commissioner's designated representative.
25	Subp. 2a. Metallic minerals. "Metallic minerals," whether
26	singular or plural, means any mineral substances of a
27	metalliferous nature, except iron ores and taconite ores.
28	Subp. 3. Mining unit. "Mining unit" means the land and
29	water area designated as such by the commissioner, wherein the
30	state owns an interest in the minerals and mineral rights.
31	Subp. 4. Ton. "Ton" means 2,000 pounds avoirdupois after
32	removal of all free moisture from the material weighed, by
33	drying at 212 degrees Fahrenheit.
34	Subp. 5. Troy ounce. "Troy ounce" means a unit of mass
35	equal to 480 grains or 31.1035 grams or 1.0971 avoirdupois
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1 ounces.

2 6125.0300 PERMITS.

The first two years of any lease issued under parts 6125.0100 to 6125.0700 is considered the prospecting permit, and no permit to prospect for metallic minerals shall be issued separately or independently from the lease, provided that nothing in this part shall restrict mining operations authorized by the lease.

9 6125.0400 LEASES.

10 The commissioner, with the approval of the state executive council, shall adopt rules for the issuance of leases to 11 12 prospect for, mine, and remove metallic minerals on lands where 13 an interest in the minerals is owned by the state, including 14 trust fund lands, land forfeited for nonpayment of taxes and 15 held in trust by the state, lands where severed mineral interests have forfeited under Minnesota Statutes, section 16 17 93.55, lands where severed mineral interests have been otherwise acquired, the beds of public waters, and lands otherwise 18 19 acquired that have been designated by the commissioner as mining 20 units. Each lease shall cover one mining unit. No lease shall 21 be issued for a term longer than 50 years.

22 6125.0500 PUBLIC SALE OF LEASES.

23 Subpart 1. Time, place, and notice. Except as otherwise 24 expressly provided by law, or as otherwise provided in part 25 6125.0600, leases to prospect for, mine, and remove metallic 26 minerals owned by the state shall be issued only upon public 27 sale authorized by the commissioner.

28 The public sale of leases shall be held at such times and 29 places as may be designated by the commissioner. The 30 commissioner shall give public notice of each sale by publication for three successive weeks in a qualified newspaper 31 that has its known office of issue in the county seats of the 32 33 counties in which the mining units to be leased are located. If no qualified newspaper has its known office of issue in the 34

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1 county seat of a particular county, then notice must be 2 published in the qualified newspaper designated as the publisher of the official proceedings of the county board of that county. 3 The first publication shall be at least 30 days before the date 4 5 of sale. Like notice may be published in not to exceed two additional newspapers and two trade magazines as the 6 7 commissioner may direct. Each notice shall contain the 8 following information:

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A. time and place of holding the sale;

B. the place or places where the list of mining units to be offered for sale will be available for purchase or inspection, and where application and bid forms may be obtained; and

14C.such other information as the commissioner may15direct.

Subp. 2. Mining unit books. Those interested in bidding may obtain a mining unit book by making application to the commissioner, accompanied by a check or money order, payable to the state treasurer, in the sum of \$25 as a fee for a mining unit book. Unit books will be available for inspection at the Hibbing and Saint Paul offices of the Division of Minerals.

22 Subp. 3. Lease application and bid. Each application and 23 bid shall be submitted on a form obtained from the commissioner 24 and shall cover only one mining unit, as designated in the 25 mining unit book. The royalty rate offered in the bid shall be 26 designated by inserting a figure in the blank space in the 27 following clause of the bid form: "The royalty rates bid herein 28 to be paid to the state per ton of crude ore for the metallic 29 minerals and associated mineral products recovered from the ores 30 mined from the mining unit shall be the sum of the base rate, as 31 described in part 6125.0700, paragraph 8, and an additional bid rate of \_\_\_\_\_ percent of the value of the metallic minerals and 32 associated mineral products recovered in the mill concentrate." 33 34 The application and bid, together with a certified check, cashier's check, or bank money order, payable to the state 35

treasurer in the sum of \$100, shall be submitted in a bid

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1 envelope obtained from the commissioner. Each sealed bid 2 envelope shall be enclosed in another envelope and shall be delivered in person or by mail to the commissioner at Saint 3 Paul, Minnesota. Bids may be submitted at any time before 4:30 4 5 p.m., Saint Paul, Minnesota time, on the last business day before the day specified for the opening of the bids, and no 6 bids submitted after that time shall be considered. Upon 7 8 receipt, the commissioner shall endorse upon each sealed bid 9 envelope the exact time of presentation and preserve the same, 10 unopened in the commissioner's office.

11 At the time specified, the commissioner, together with at 12 least one member of the state executive council as designated by the council, shall then publicly open the bids and announce the 13 14 amount of each bid separately. Leases shall be awarded by the 15 commissioner, with the approval of the state executive council, 16 to the highest bidder for the respective mining units, but no bids shall be accepted that do not equal or exceed the base 17 royalty rates in part 6125.0700. The right is reserved to the 18 19 state, through the executive council, to reject any or all 20 bids. Tie bids will be resolved by the commissioner, with the 21 approval of the state executive council, by the random drawing 22 of the name of one tied bidder from a pool comprised of the 23 names of all the tied bidders. Upon the award of a lease, the 24 certified check submitted with the bid shall be deposited with 25 the state treasurer as a fee for the lease. All bids not 26 accepted shall become void, and the checks accompanying the bids 27 shall be returned to the respective bidders.

28 6125.0600 NEGOTIATED LEASES.

When the commissioner finds that it is impractical to hold a public sale on any mining unit because of its location or size or the extent of the state's interest in the minerals and that the best interests of the state will be served, the commissioner, with the approval of the executive council, may, without holding a public sale, issue a lease to any qualified applicant to prospect for, mine, and remove metallic minerals.

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Applications shall be in a form and shall contain information as the commissioner may prescribe. The applicant shall submit with the application a certified check, cashier's check, or bank money order, payable to the state treasurer in the sum of \$100. The leases so issued shall be in the form set forth in part 6125.0700, with such additional terms and conditions consistent with the lease as may be agreed upon. The rental and royalty rates agreed upon shall be not less than those prescribed in part 6125.0700.

10 No lease shall be issued under this part for the removal of 11 metallic minerals from any mining unit for which notice of 12 public sale has been published, until the public sale has been 13 held.

14 6125.0700 FORM OF LEASE.

15 The form of lease for prospecting for, mining, and removing 16 metallic minerals belonging to the state shall consist of the 17 following provisions, with insertions, changes, or additions as 18 may be necessary to incorporate the royalty rates and other 19 particulars applicable to each lease as may be authorized under 20 parts 6125.0100 to 6125.0700:

21 This lease agreement is entered into on the \_\_\_\_\_ day of 22 \_\_\_\_\_, 19\_. The parties to this lease are the State of 23 Minnesota, called the state, and \_\_\_\_\_\_, 24 called the lessee.

1. Term; description of mining unit. The state, in 25 consideration of the sum of \_\_\_\_\_ Dollars, paid by the lessee, 26 being the rental provided in this lease for the unexpired 27 portion of the current calendar year and for the next succeeding 28 two (2) calendar years, the receipt whereof is hereby 29 acknowledged, and in further consideration of the covenants and 30 conditions of this lease to be performed by the lessee, agrees 31 to lease to the lessee for a term of \_\_\_\_\_ (\_\_) 32 years beginning the \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_, the 33 following-described mining unit, situated in the county of 34 , in the State of Minnesota: 35

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Definitions. For the purposes of this lease, the
 following words have the meanings given them:

a. "Associated mineral products" means those intermingled
or associated materials and substances recovered from each ton
of crude ore mined from the mining unit that are excluded from
the definition of metallic minerals.

b. "Commissioner" means the commissioner of natural
8 resources of the state of Minnesota, or the commissioner's
9 designated representative.

10 c. "Metallic minerals," whether singular or plural, means 11 any mineral substances of a metalliferous nature, except iron 12 ores and taconite ores.

d. "Ton" means 2,000 pounds avoirdupois after removal of all free moisture from the material weighed, by drying at 212 degrees Fahrenheit.

16 e. "Troy ounce" means a unit of mass equal to 480 grains 17 or 31.1035 grams or 1.0971 avoirdupois ounces.

18 3. Purpose of lease. The mining unit is leased to the 19 lessee for the purpose of prospecting for, mining and removing 20 ores primarily valuable for their metallic minerals content that 21 are found on or in the mining unit.

22 The lessee has the right to construct or make buildings, 23 excavations, openings, ditches, drains, railroads, roads, and other improvements on the mining unit as necessary or suitable 24 25 for those purposes. The lessee has the right to mill and concentrate the ore so mined, either upon the mining unit or 26 27 elsewhere, but the right to mill and concentrate does not 28 include the right to reduce or smelt ore upon the mining unit 29 without an agreement between the lessee and the commissioner, 30 authorizing that use of the surface of the land and providing 31 for the necessary protection of life and property. The lessee 32 may contract with others for doing any work authorized or 33 required under this lease, or for the use of the mining unit or any part of it for the purposes of the lease, but no contract of 34 this type relieves the lessee from any duty, obligation, or 35 36 liability under the lease. No such contract providing for

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shipping, handling, or removal of ore-bearing material becomes
 effective for any purpose until three executed duplicates of the
 contract have been filed with the commissioner.

4. State's right to lease iron ores, taconite ores, coal, 4 5 oil, gas, and other liquid or gaseous hydrocarbon substances. 6 The state reserves the right to lease or grant to other persons 7 or corporations the right to explore for, mine, remove, and beneficiate iron ores, taconite ores, coal, oil, gas, and other 8 9 liquid or gaseous hydrocarbon substances, that are located in 10 the mining unit. The state agrees that any permit or lease 11 granted by it to any person or corporation to explore for, develop, mine, or dispose of the iron ores, taconite ores, coal, 12 13 oil, gas, and other liquid or gaseous hydrocarbon substances 14 shall contain a provision that the permittee or lessee shall 15 exercise those rights so as not to cause any unnecessary or unreasonable injury or hindrance to the operations of the lessee 16 17 of this lease in the exploration for, or the development, 18 mining, or removal of metallic minerals other than iron ores, 19 taconite ores, coal, oil, gas, and other liquid or gaseous hydrocarbon substances covered by that permit or lease. 20 The 21 lessee of this lease agrees that it will exercise the rights 22 granted to it by this lease in such manner as not to cause any 23 unnecessary or unreasonable injury or hindrance to the 24 operations of any permittee or lessee of the state in the exploration for, or the development, mining, or removal of iron 25 ores, taconite ores, coal, oil, gas, and other liquid or gaseous 26 27 hydrocarbon substances.

28 5. State's right to lease surface and sell timber. The 29 state reserves the right to sell and dispose of all the timber 30 upon the mining unit without hindrance from the lessee and 31 according to the law now or hereafter governing the sale of timber on state lands, and reserves to the state and to the 32 purchaser of the timber, and their agents, the right at all 33 times to enter the mining unit, and to cut and remove timber 34 from it according to the terms of the purchaser's contract with 35 36 the state. The timber purchaser shall not unduly interfere with

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1 the prospecting or mining operations. The state further 2 reserves the right to grant leases, permits, or licenses to any portion of the surface of the mining unit to any person, 3 partnership, corporation, or other association under the 4 authority of Minnesota Statutes, section 92.50, or other 5 applicable laws, after consultation with lessee. The surface 6 7 leases, permits, or licenses shall not unduly interfere with the prospecting or mining operations conducted on the mining unit. 8

6. Annual rental. The lessee agrees to pay to the state 9 rental for the mining unit at the rate of one dollar per acre of 10 11 land and water area included in the mining unit, per calendar 12 year, payable in advance, for the unexpired portion of the current calendar year from the effective date of this lease and 13 14 for the next succeeding two calendar years; and after that time 15 at the rate of three dollars per acre per calendar year, payable quarterly for the three succeeding calendar years; and after 16 17 that time at the rate of eight dollars per acre per calendar year, payable quarterly for the five succeeding calendar years; 18 19 and after that time at the rate of \$25 per acre per calendar 20 year, payable quarterly for the remainder of the term of this 21 lease.

The mining unit may include state-owned minerals under water, in trust fund lands, in acquired lands, in lands forfeited for taxes, and in lands in which severed mineral interests have forfeited for failure to comply with registration laws, or have been otherwise acquired. Any amount paid for rental, at the time of payment, shall be allocated to the proper fund as determined by the mineral ownership.

29 Any amount paid for rental accrued for any calendar year must be credited on any royalty that may become due for ore 30 removed under this lease during the same calendar year but no 31 further, and only to the extent that the rental was paid or 32 deposited into the particular fund to which the royalty for the 33 ore is due. Any amount paid for royalty in excess of the credit 34 during that year must be credited on rental, if any, 35 36 subsequently accruing for that year but no further, and only to

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the extent that the royalty was paid or deposited into the 1 particular fund to which the rental is due. However, any amount 2 paid for rental in excess of eight dollars per acre for any 3 previous calendar year may be credited on any royalty that may 4 become due for ore removed under this lease during the current 5 calendar year in excess of any credits for current rental, but 6 only to the extent that the rental was paid or deposited into 7 8 the particular fund for which the royalty is due.

9 Rental payments must be made on May 20, August 20, November 10 20, and February 20 for the previous calendar quarters. The 11 first calendar quarter is the first three calendar months of the 12 year, and so on.

Upon surrender of any part or parts of the mining unit by l4 lessee under this lease, the annual rental payment may be l5 discontinued as to those parts for all subsequent calendar l6 years; however, the rentals paid on the parts surrendered must l7 not be credited on any royalties due for ore removed from that l8 part of the mining unit which remains under lease.

Where the state owns only a fractional undivided interest in the minerals in any portion of the mining unit, only that fractional part of the rentals and royalties established in this lease shall be paid for that portion.

If at any time during the term of this lease it is 23 determined in a proper proceeding that the state does not own 24 the minerals in a part of the area included in the mining unit, 25 the commissioner shall delete from the description of the mining 26 27 unit the part not owned by the state, and only if that determination is made prior to the fifth anniversary date of 28 29 this lease is the lessee entitled to a refund, or in the case of tax forfeited minerals to receive credit on future payments due 30 31 the same fund, for payments made to the state on that part prior to the determination. If the commissioner deems it necessary, 32 additional time to make the determination may be granted. 33

34 7. Tonnage for royalty purposes. Royalty must be computed
35 on the dry weight of the crude ore. The dry weight of the crude
36 ore shall be calculated from natural crude ore weights and

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1 moisture percentages from samples taken at the time the crude 2 ore is weighed.

8. Royalty.

a. The royalty to be paid to the state by the lessee for
the metallic minerals and associated mineral products recovered
from each ton of ore mined from the mining unit is the sum of
the base rate described in this paragraph and an additional bid
rate of \_\_\_\_\_ percent multiplied by the value of the metallic
minerals and associated mineral products recovered in the mill
concentrate from each ton of dried crude ore.

b. The base rate must not be less than 3-1/2 percent nor more than 20 percent and varies with the value of the metallic minerals and associated mineral products recovered from each ton of ore mined from the mining unit. The base rate must be calculated as provided in clauses (1) to (4):

16 (1) If the value of the metallic minerals and associated
17 mineral products recovered in the mill concentrate is equal to
18 or less than \$75, the base rate is 3-1/2 percent.

19 (2) If the value of the metallic minerals and associated
20 mineral products recovered in the mill concentrate is greater
21 than \$75 but less than or equal to \$150, the base rate is 3-1/2
22 percent plus an additional 0.015 percent for each dollar
23 increase in value above \$75.

(3) If the value of the metallic minerals and associated
mineral products recovered in the mill concentrate is greater
than \$150 but less than or equal to \$225, the base rate is 3-1/2
percent, plus an additional 0.015 percent for each dollar
increase in value above \$75, plus a further additional 0.02
percent for each dollar increase in value above \$150.

30 (4) If the value of the metallic minerals and associated 31 mineral products recovered in the mill concentrate is greater 32 than \$225, the base rate is 3-1/2 percent, plus an additional 33 0.015 percent for each dollar increase in value above \$75, plus 34 a further additional 0.02 percent for each dollar increase in 35 value above \$150, plus a further additional 0.025 percent for 36 each dollar increase in value above \$225.

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1	In computing the base rate, there must be no rounding
2	before calculating the total royalty due. The values of \$75,
3	\$150, and \$225, as used above, must be escalated each calendar
4	quarter in accordance with the formula set forth in paragraph c.
5	For example, assume the value (v) of metallic minerals and
6	associated mineral products recovered in the mill concentrate
7	from a ton of dried crude ore was \$100. The base rate would be
8	calculated as follows:
9	Base rate = $.035 + (.00015 \times [v - 75])$
10	= .035 + (.00015 x [100 - 75])
11	$= .035 + (.00015 \times 25)$
12	= .035 + .00375
13	= .03875
14	= 3.875 percent
15	If the value (v) of the metallic minerals and associated mineral
16	products recovered in the mill concentrate from a ton of dried
17	crude ore was \$250, then the base rate would be calculated as
18	follows:
19	Base rate = .035 + (.00015 x [v - 75]) + (.0002 x [v - 150]) +
20	(.00025 x [v - 225])
21	= .035 + (.00015 x [250 - 75]) + (.0002 x [250 - 150]) +
22	(.00025 x [250 - 225])
23	= .035 + (.00015 x 175) + (.0002 x 100) + (.00025 x 25)
24	= .035 + .02625 + .02 + .00625
25	= .0875
26	= 8.75 percent
27	c. The values of \$75, \$150, and \$225 as used in the base
28	rate must be increased each calendar quarter as follows:
29	If the unadjusted Producer Price Index for All Commodities
30	(1967 equals 100), as originally published (unrevised) by the
31	Bureau of Labor Statistics of the United States Department of
32	Labor, or any succeeding federal government agency publishing
33	the Index, in the monthly publication titled Producer Price
34	Indexes, for the first month in the calendar quarter for which
35	royalty payment is to be made, exceeds 310.5, which was the
36	level of the index for August 1987 (hereinafter called the "Base

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Index"), an additional amount, computed in the manner 1 hereinafter provided, must be added to the values of \$75, \$150, 2 3 and \$225 to be used in the base rate for the calculation of the royalty to be paid by the lessee on the ore removed from the 4 5 mining unit during any quarter.

6 The increase in the values of \$75, \$150, and \$225 must be 7 computed by multiplying each value by a fraction, the 8 denominator of which is the Base Index and the numerator of 9 which is equal to the amount by which the Producer Price Index for All Commodities for the first month of the calendar quarter 10 in question exceeds the Base Index. The resulting products must 11 12 be carried to two decimal places and then rounded to the nearest 13 whole dollar.

14 For example, the Base Index under this lease is 310.5 and if the Producer Price Index for All Commodities for January 1990 15 16 was 325.5, the increase in the values of \$75, \$150, and \$225 17 would be computed as follows:

18 \$ 75 x (325.5 - 310.5) = \$3.62, rounded to \$4.00 19 310.5 20 21 \$150 x (325.5 - 310.5) = \$7.24, rounded to \$7.00 22 23 310.5 24 \$225 x (325.5 - 310.5) = \$10.86, rounded to \$11.00 25

The indexed values to be used in the calculation of the base 27 28 rate that would be used in the calculation of royalty payable on the metallic minerals and associated mineral products recovered 29 30 during the first calendar quarter of 1990 would be:

31 32

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\$ 75 + \$ 4 = \$ 79 + \$ 7 = \$157 \$150

+

310.5

33

\$225 \$11 = \$236

If some period other than 1967 is used as a base of 100 in 34 determining the Producer Price Index for All Commodities, for 35 the purposes of this lease provision the index must be adjusted 36 so as to be in correct relationship to the 1967 base. In the 37 event the index is not published by any federal agency, the 38 index to be used as previously provided must be the index 39

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1 independently published, which, after necessary adjustments, if 2 any, provides the most reasonable substitute for the Producer 3 Price Index for All Commodities during any period after August 4 1987, it being intended to substitute an index that most accurately reflects fluctuations in the prices of commodities in 5 the all commodities index in the manner presently reported by 6 7 the Producer Price Index for All Commodities (1967 equals 100), published by the Bureau of Labor Statistics of the United States 8 9 Department of Labor.

10 The values of \$75, \$150, and \$225 as used in the base rate 11 must never be less than the minimum values prescribed in 12 paragraph 8b of this lease.

13 d. The lessee may apply to the commissioner and the 14 commissioner may grant the lessee a partial deferral of the lessee's obligation to pay royalties under this lease. Up to 50 15 percent of royalties due and payable less any credits against 16 royalties as provided in paragraph 6, may be deferred by the 17 18 commissioner. Any deferral granted applies only to the royalties due and payable during the first consecutive years, up 19 20 to a maximum of the first five consecutive years, beginning with the first year that any royalties are due and payable under this 21 22 lease, or to royalties due and payable during the first one-half 23 of the expected operational life of the first mine established under this lease in the mining unit, whichever is less. 24

The amount of royalties deferred for each calendar quarter as provided above, plus interest at the rate of eight percent per year, becomes finally due and payable on the future date that is determined by adding the total number of years of deferral granted under this section to the date on which royalties would have been due and payable had there been no deferral.

The commissioner in considering the lessee's application for deferral of royalties may consider factors including, but not limited to, the expected operational life of the mine producing the royalties, the express purposes for which the money deferred is proposed to be used by the lessee, the cash

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flow analysis of the mine, the amount of either the capital
 invested or to be invested, or both, by the lessee in
 exploration and mining operations under this lease, and the
 technical and financial capabilities of the lessee.

5 9. Value of metallic minerals and associated mineral6 products.

7 The value of metallic minerals and associated mineral а. products recovered in the mill concentrate from each ton of 8 9 dried crude ore must be determined monthly as follows: Multiply the total pounds respectively of each metallic-mineral metal and 10 associated mineral product recovered during the month in the 11 12 mill concentrate from the mining unit, by the average market price per pound respectively for that month of each fully 13 14 refined metallic-mineral metal and of each associated mineral 15 product. Subtract from that total, the smelter charges, as later defined in this lease, to obtain the value of each metallic 16 17 mineral and each associated mineral product. Add the values 18 thus obtained for each metallic mineral and each associated mineral product for the month, and divide the sum by the total 19 number of tons of dried crude ore from the mining unit 20 21 concentrated in the mill during the month, to obtain the value of the metallic minerals and associated mineral products 22 recovered from each ton of dried crude ore. The value must be 23 carried to four decimal places and rounded to the nearest 24 one-hundreth of a dollar. 25

26 b. When metallic minerals and associated mineral products 27 recovered during the month in the mill concentrate are sold during the same month, only those metallic minerals and 28 29 associated mineral products recovered from that concentrate that are actually paid for by the smelter, refiner, or other 30 purchaser must be valued as part of the metallic minerals and 31 associated mineral products recovered during the month. When 32 33 metallic minerals and associated mineral products recovered during the month are not sold during the same month, the value 34 of the metallic minerals and associated mineral products 35 recovered during the month must be adjusted, if necessary, at 36

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1 the time they are sold to reflect the market price at the time 2 of sale, and to reflect any metallic minerals and associated 3 mineral products recovered in a concentrate that are not 4 actually paid for by a smelter, refiner, or other purchaser. 5 Any prior payment of royalty that becomes an overpayment of 6 royalty as a result of the adjustment of value under this 7 paragraph is a credit against future royalty payments due under 8 this lease.

9 c. Metallic minerals and associated mineral products sold 10 by the lessee to a nonaffiliate shall be deemed sold at the time the metallic minerals and associated mineral products are 11 delivered to the nonaffiliate. Metallic minerals and associated 12 13 mineral products sold or transferred by lessee to an affiliate 14 shall be deemed sold by lessee at the time of delivery to the affiliate and value must be calculated on the basis of the 15 16 market prices at the time of the deemed sale of the fully refined metallic minerals and of the associated mineral products 17 sold or transferred to the affiliate. Metallic minerals and 18 associated mineral products retained by the lessee for its own 19 20 internal use and consumption shall be deemed sold when they are 21 removed from the mining unit and value must be calculated on the basis of the market prices at the time of the removal of the 22 fully-refined metallic minerals and of the associated mineral 23 products retained for internal use and consumption. For the 24 purpose of this lease "affiliate" means the lessee, or any 25 business entity that is effectively owned or controlled directly 26 or indirectly by the lessee or that directly or indirectly 27 28 effectively owns or controls the lessee, or any business entity operated by or that operates the lessee. 29

30 d. If material is recovered and sold on a basis other than 31 for the purpose of recovering the fully refined metallic 32 minerals metals and the associated mineral products contained in 33 the material, such as the recovery and sale of titanium dioxide 34 for paint pigment uses, then the value of the material recovered 35 and sold, for royalty calculation purposes, is subject to 36 agreement between the commissioner and the lessee.

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1 e. "Smelter charges" means the base smelter treatment charge assessed by the smelter for treating each ton of the mill 2 concentrate plus the smelter losses that are deducted from the 3 assay or market values to arrive at the gross payment to the 4 lessee for each of the metallic minerals and associated mineral 5 6 products paid for by the smelter. Smelter charges do not 7 include the following: mining or milling, or similar beneficiation costs or charges; refinery losses; refinery 8 9 charges; penalties for impurities; freight and transportation 10 charges either to or from the mill, concentrator, smelter, or refinery; weighing and sampling charges; handling charges; 11 12 selling charges; taxes of any kind; processing charges; or any 13 other charges, other than the base smelter treatment charge and 14 smelter losses, assessed by the smelter or purchaser of the 15 metallic minerals or associated mineral products. If the mill 16 concentrate is treated at a smelter owned by, or directly or 17 indirectly effectively controlled by, the lessee or its 18 affiliate, or that the lessee or its affiliate operates or 19 manages, then the smelter charges allowed are equal to the 20 smelter charges that the smelter would assess or charge an 21 unaffiliated third party desiring to have a substantially similar mill concentrate treated at the smelter. If the smelter 22 23 owned by, operated by, or effectively controlled by the lessee 24 or its affiliate does not provide smelter treatment services to 25 unaffiliated third parties, then the smelter charges allowed are equal to the mean of the smelter charges assessed and charged 26 27 for substantially similar mill concentrates in smelter contracts 28 between unaffiliated parties. If any metallic minerals or 29 associated mineral products produced under this lease from the 30 mining unit are sold, or otherwise disposed of, without smelter treatment, as, for example, in the production of gold dore', 31 then no deduction for smelter charges, nor any other charges, is 32 33 allowed in the computation of the value of the metallic minerals 34 and associated mineral products recovered in the mill 35 concentrate. If the state disagrees as to the smelter charges, 36 the lessee has the burden of proof of substantiating the smelter

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1 charges.

2 f. The average market price of copper per pound for each 3 month is that quoted for MW US Producer Cathode (MW US PROD 4 CATH), as reported in Metals Week. The average market price of nickel per pound for each month is that quoted for New York 5 Dealer Cathode (NY DEALER CATH), as reported in Metals Week. 6 The average market price of gold per troy ounce for each month 7 8 is that quoted for the London Final, as reported in Metals The average market price of silver per troy ounce for 9 Week. each month is that quoted for Handy & Harman, as reported in 10 11 The average market price of zinc per pound for Metals Week. each month is that quoted for MW US High Grade (MW US HG), as 12 13 reported in Metals Week. The average market price of lead per 14 pound for each month is that quoted for North American Producer Low (NA PRODUCER L), as reported in Metals Week. The average 15 16 market price of other metallic minerals and of associated mineral products per pound for each month shall be that quoted 17 for their usual and customary shipping quantities, f.o.b. the 18 19 usual and customary place of shipment, United States import duty 20 (if any) included, as reported in Metals Week. If Metals Week 21 does not or ceases to report an average monthly market price for 22 any metallic mineral or associated mineral product, then the average monthly market price of that metallic mineral or 23 associated mineral product is the arithmetic average of the 24 daily market prices for the metallic mineral or associated 25 26 mineral product for that month as reported in Metals Week. If 27 Metals Week or its successors cease to furnish such quotations, 28 or its quotations cease to be recognized in the trade, or a 29 particular metallic mineral or associated mineral product is not 30 listed, then the quotations of such other source as the parties 31 may agree upon shall govern.

32 10. Commingled ores. The lessee has the right to 33 commingle ore from the mining unit with other ore, either in the 34 mine, in stockpile, in the mill, or in the smelter, but the ores 35 must be kept entirely separate and distinct until their 36 quantities and metal and mineral contents have been separately

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measured and determined. Ratios of concentration, percent mill 1 recoveries, and any other factors necessary for determining the 2 beneficiating amenability of the commingled ores, the allocation 3 of values and the royalties, must be separately measured and 4 5 determined by methods approved by the commissioner and shall be reported on a monthly basis. "Ratio of concentration" means the 6 7 dry weight of the crude ore divided by the dry weight of the concentrate derived from the crude ore. "Percent mill recovery" 8 9 means the dry weight of the metal in the concentrate divided by 10 the dry weight of the metal in the crude ore, expressed as a 11 percent.

12 11. Quarterly payment on ore removed. The lessee agrees 13 to pay to the state, on or before May 20, August 20, November 14 20, and February 20 in each year during the period this lease 15 continues in force, royalty at the rates specified in paragraph 8 for all of the ore removed from the mining unit during the 16 previous calendar quarter. The lessee also agrees to pay to the 17 18 state on or before May 20 of each year all royalty due and 19 payable as a result of the adjustment to value of the metallic minerals and associated mineral products sold during the 20 21 previous calendar year as provided for in paragraph 9b.

22 The lessee is liable for payment of royalty when due on all 23 ore removed from the mining unit for concentration elsewhere or for any other purpose, from the actual time of removal; and if 24 25 the royalty due on the ore is not determined and accounted for as provided by the next royalty payment date, the commissioner 26 27 may determine the royalty by any method as the commissioner 28 deems appropriate and consistent with the royalty rates set forth in this lease. Any amount paid for royalty must be 29 allocated to the proper fund as determined by the mineral 30 31 ownership.

32 12. Lessee to transmit statement of ore removed and 33 royalty due. The lessee shall transmit to the commissioner with 34 each royalty payment an exact and truthful statement of the 35 tonnage and royalty value of the ore mined and removed from the 36 mining unit during each of the three months for which the

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payment is made, and the amount of royalty due on the ore,
 separated as to the various state fund ownerships. The lessee
 shall provide for all the operations required for these
 determinations except as otherwise specified.

5 13. Weighing. The methods of obtaining the weights used 6 to determine tonnage for the calculation of royalty, or to 7 determine other weights required by the state, are subject to 8 the approval of the commissioner.

9 14. Sampling. Samples for royalty purposes must be taken 10 of the ores and their products at places and intervals subject to the approval of the commissioner. A portion of each sample 11 12 or composite sample must be delivered to the commissioner 13 / unless, by mutual agreement, it has been decided that certain of 14 such portions are not needed by the state. Except as otherwise 15 permitted by the commissioner, all ore mined from this mining 16 unit must be sampled and its weight determined before being 17 commingled with any other ores.

Each royalty sample must be analyzed at the expense of the lessee by competent chemists or assayers approved in writing by the commissioner. The elements in the royalty sample for which analytical determinations will be made are subject to agreement between the commissioner and the lessee.

23 15. Monthly reports. Except as otherwise permitted by the commissioner, the lessee shall transmit within 30 days after the 24 25 end of each calendar month, statements for that calendar month 26 in the form the commissioner may require, covering the tonnages 27 and analyses of the following: all material mined from the 28 mining unit, all material milled from the mining unit, all 29 material stockpiled from the mining unit, all concentrates 30 produced from the mining unit, all material mined from any source and commingled with material from the mining unit, all 31 32 commingled material concentrated, all commingled material 33 stockpiled, all commingled concentrates produced during that 34 calendar month, and such other information as may reasonably be required by the commissioner for the purpose of verifying the 35 amount of royalty due. 36

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1 The weight of ore as set forth in the monthly statements shall prima facie be binding as between the parties, but the 2 state has the right to sample the ore, check the analyses, and 3 4 inspect, review and test the correctness of the methods, books, 5 records and accounts of the lessee in sampling, analyzing, 6 recording, and reporting the weights, and to inspect, review, 7 and test the correctness of the weights and scales and other 8 equipment used in measuring the amount of ore, it being understood that any errors in these reports, when ascertained, 9 10 shall be corrected.

11 16. Additional monthly and annual reports to be furnished 12 by lessee; exploration; mine samples required. Except as 13 otherwise permitted by the commissioner, in addition to other 14 reports or statements required in this lease, the lessee shall 15 furnish the following:

16 Copies of all exploration data, including, but not а. 17 limited to, all logs and drill hole records; all maps and 18 coordinates showing drill holes, geophysical grids, geochemical 19 and geologic sampling, trenching, and survey data; all chemical 20 and analytical data and information; all laboratory test data; 21 all geophysical, geochemical, and geologic records; all results 22 of mine and metallurgical testings; and all periodic mine maps, 23 analyses maps, cross-sections, and development plans. All 24 material required under this subparagraph must be available to 25 the commissioner, or the commissioner's representative, at all reasonable times. Copies must be submitted annually to the 26 27 commissioner when the data is in the form customarily prepared 28 for permanent record of the operations on the mining unit. 29 Material available to and furnished to the commissioner under 30 this subparagraph and subparagraph b. shall be considered 31 confidential during the life of this lease or any extension of 32 it.

b. At least a quarter-portion of all exploration samples,
and when requested by the commissioner in writing, a
quarter-portion of mine or mill samples. In the event that the
lessee requires certain exploration samples in their entirety,

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crushed or processed.

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the commissioner or the commissioner's representative may waive
 the requirement for a quarter-portion of such exploration
 samples, provided that the lessee grants the state an
 opportunity to examine and classify such samples before they are

c. A monthly report showing the estimated weights and
7 analyses of all materials stockpiled, including lean ore, waste
8 and tailings, and divided as to property of origin and
9 deposition.

10 d. Certified copies of smelter statements, schedules, 11 agreements, and settlement sheets or receipts from sales 12 involving materials produced from this mining unit showing the 13 product sold and factors relevant to the calculation of 14 royalties.

e. Not later than March 1 of each year during the term of this lease, a summary statement of the tonnage of all ore mined and all ore milled from the premises and all ore materials placed in or removed from stockpile during the previous calendar year, divided as to the property of origin and the disposition of the ore materials and showing such analyses of them as the commissioner may require.

17. How remittances and reports are to be transmitted.
All remittances by the lessee under this lease must be made
payable to the state treasurer. All such remittances and all
reports, notices and documents required under this lease must be
transmitted to the commissioner through the director of the
division of minerals at Saint Paul, Minnesota.

28 18. State inspection; inspectors at plants and mines. The 29 commissioner may at all reasonable times enter the mining unit 30 and any other premises used or operated by the lessee in connection with the operation of the mining unit, inspect the 31 32 operations conducted under this lease, and conduct such engineering and sampling procedures and other investigations as 33 34 the commissioner may require, not unreasonably hindering or interrupting the operations of the lessee. 35 The lessee shall provide, upon written request of the 36

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1 commissioner, a suitable room in the dry or wash house or in 2 some other suitable place on the mining unit or elsewhere when 3 necessary, with water, light, and heat, all without cost to the 4 state, for the use of state inspectors. The room must be at 5 least equal in size and equipment to that customarily furnished 6 for the use of the mine engineer.

7 Whenever royalties or rentals due the state are required to 8 be distributed to more than one fund, or when ore from the 9 mining unit is commingled with other ore, or when ore from the mining unit is concentrated at the same plant as other ore, the 10 11 commissioner may appoint special inspectors as the commissioner 12 considers necessary to insure proper accounting and protect the 13 interests of the state. The lessee shall reimburse the state 14 monthly for the cost of this inspection service upon 15 notification by the commissioner.

16 19. Removal of ore for experimental purposes. 17 Notwithstanding paragraph 11, upon written application of the lessee, the commissioner may authorize the removal of ore from 18 19 the mining unit for experimental purposes without payment of 20 royalty; and it is further understood that the removal of 21 samples obtained by drilling, trenching, or testpitting, for the purposes of exploration, is not subject to the payment of 22 23 royalty.

24 Stockpiled materials. All materials mined and not 20. 25 shipped from the mining unit remains the property of the state and shall be stockpiled only in such manner and on such sites as 26 may be authorized by the commissioner in writing. When, 27 28 however, the commissioner agrees that substantially all minerals 29 of value have been extracted from the mill tailings, the material may be used for stope filling on the mining unit or 30 31 elsewhere, and the tailings material used shall be considered abandoned, and title to the material shall revert to the mineral 32 owners of the property in which it is deposited. 33

34 21. Reversion of title on land conveyed to the state for 35 stockpiling purposes. When the commissioner determines that it 36 is necessary and that the interests of the state will be fully

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1 protected, the lessee may convey land to the state upon the 2 condition that it be used for the storage of ore or other 3 materials having present or potential value belonging to the 4 state, and that the state's interest in the land terminates and 5 title reverts to the lessee when the land is no longer needed or 6 used for that purpose. No consideration shall be paid for the 7 conveyance unless authorized by law.

8 22. Cross-mining rights. The lessee is hereby granted the 9 right to mine and remove any ores from the mining unit through 10 any shafts, openings, or pits that may be made upon adjoining 11 and nearby premises controlled by the lessee; and the lessee may, if it so desires, use the mining unit and any shafts, 12 13 openings, pits, made on it for the mining or removal of any ores 14 from adjoining or nearby premises, not, however, preventing or interfering with the mining or removal of ore from said mining 15 16 unit. The ores taken from the mining unit must at all times be 17 kept entirely separate and distinct from any other ores until 18 measured and sampled as provided in this lease so that the rights of the lessor are at all times preserved and protected. 19 20 The lessor recognizes the rights and liens of the owners of any 21 nearby or adjoining premises in any ores mined from them and 22 transported through the mining unit.

23 23. Lessee's obligations under state and federal laws and 24 regulations. The provisions of this lease are subject to all 25 applicable state and federal statutes, orders, rules and 26 regulations, and all operations under this lease shall be conducted in conformity with them. No interference, diversion, 27 28 use or appropriation of any waters over which the commissioner 29 or any other state agency has jurisdiction, may be undertaken 30 unless authorized in writing by the commissioner or the state 31 agency.

32 24. Operations to be conducted in accordance with good 33 mining and metallurgical engineering. The lessee shall advise 34 the commissioner when exploration drilling, trenching, or 35 testpitting on the mining unit is about to begin. The lessee 36 shall open, use, and work the mine or mines on the mining unit

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and conduct metallurgical operations in such manner only as is 1 usual and customary in skillful and proper mining and milling 2 operations in accordance with the requirements, methods, and 3 practices of good mining and metallurgical engineering, and in 4 5 such manner as not to cause any unnecessary loss of minerals, or 6 unusual permanent injury to the mining unit. Surface lands owned by the state in the mining unit are not to be cleared or 7 8 used for construction or stockpiling purposes until the plan for 9 such use has been approved by the commissioner. The surface use 10 of the mining unit must be conducted in such manner as to prevent or reduce scarring and erosion of the land and pollution 11 of air and water. 12

13 25. Lessee's obligation for damages. It is understood and agreed that in case any interest in the land or minerals covered 14 15 by this lease is owned by anyone other than the state, this lease shall not be construed as authorizing any invasion of or 16 17 trespass upon such other interest. The lessee is obligated to save the state harmless from all damages or losses caused 18 19 directly or indirectly by operations under this lease, whether 20 to land, timber, minerals, growing crops, or buildings, or to 21 any person or other property, including damages suffered by that 22 other owner of the surface or mineral rights, and the state shall not be liable for them. 23

24 Lessee to pay all taxes. The lessee agrees to pay 26. 25 when due all taxes, general and specific, personal and real that may be assessed against the mining unit and the improvements 26 27 made on it, and the ore materials in it or mined from it, and any personal property on the mining unit owned, used, or 28 29 controlled by the lessee. This covenant does not apply to taxes 30 assessed against any part of the mining unit as a result of any 31 other lease granted by the state to other parties. The cancellation, termination, or expiration of this lease does not 32 relieve the lessee of the obligation to pay taxes assessed 33 34 during the continuance of the lease, even though such taxes may be due or payable after the cancellation, termination, or 35 36 expiration date.

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1 27. State lien for unpaid sums due. The state reserves 2 and shall at all times have a lien upon all ore mined from the 3 mining unit, all ore concentrated from it, smelter returns due 4 the lessee for the ore, and all improvements made under this 5 lease for any sums not paid when due.

Lessee's right to terminate lease. The lessee may at 6 28. 7 any time deliver to the commissioner written notice of intention 8 to terminate this lease, and this lease shall terminate 60 days after the delivery unless the notice is revoked by the lessee by 9 further written notice delivered to the commissioner before the 10 expiration of 60 days. On December 31 following the tenth 11 12 anniversary date of this lease, and on any succeeding December 31, the lessee may surrender its rights and privileges granted 13 14 in this lease on any governmental descriptions or on beds of 15 public waters included in the mining unit, by giving the lessor written notice of its intention so to do at least 60 days before 16 the date of such surrender. All sums due to the state under 17 18 this lease up to the effective date of termination must be paid 19 by the lessee.

20 29. Lessor's right to cancel lease upon lessee's failure 21 to meet production requirements. The state may cancel this 22 lease as provided in paragraph 30 if the lessee has not met both 23 of the following conditions by the end of the 20th full calendar 24 year of this lease:

(a) The lessee must be actively engaged in mining oreunder this lease from:

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i. the mining unit;

ii. a metallic mineral mine within the
government township in which the mining unit is located; or
iii. a metallic mineral mine within a government
township that has at least one point in common along its
boundary line with the government township in which the mining
unit is located.

34 (b) The lessee must have paid to the state at least
35 \$100,000 in earned royalty under a metallic minerals lease.
36 This amount must be paid during a single calendar year.

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1 The state may exercise its option to cancel the lease 2 during the 21st calendar year of the lease. If it does not do 3 so, and if the conditions have not been met by the end of the 35th full calendar year of this lease, it may exercise its 4 option to cancel during the 36th calendar year of the lease. 5 The commissioner shall take the lessee's financing needs and the 6 state's proportional ownership interest into consideration in 7 8 determining whether the requirements of this paragraph have been 9 met.

10 30. Lessor's right to cancel lease upon default. This 11 lease is granted upon the express condition that, if any sum 12 owed under it by the lessee for rental, royalty, or otherwise 13 remains unpaid after the time when it became due, or if the 14 lessee or its agent or servant knowingly or willfully makes any 15 false statement in any report, account, or tabulation submitted 16 to the state or to the commissioner, or any of the

17 commissioner's agents pertaining to any matter under this lease, 18 or if the lessee fails to perform any of the conditions required 19 by this lease, the commissioner may cancel this lease by mailing or delivering to the lessee 60 days' notice of the cancellation 20 21 in writing, specifying such nonpayment or other default as the 22 case may be. This lease shall terminate at the expiration of 23 the 60 days, and the lessee and all persons claiming under the lessee shall be wholly excluded from the mining unit except as 24 hereinafter provided in paragraph 31. Termination does not 25 26 relieve the lessee from any liability for payment or other 27 liability incurred under this lease. If the default consists of a nonperformance of an act required under this lease other than 28 29 payment of royalty or rental, the lessee may perform within the 30 period of 60 days and the lease continues in effect. If the correction of any such default requires more time than 60 days 31 after the notice has been received by the lessee, the 32 33 commissioner, upon written request of the lessee and for good cause shown, may, at his or her discretion, grant an extension 34 of the period of 60 days. If the default consists of a 35 nonpayment of royalty or rental and the lessee performs within 36

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15 days from the mailing or delivery of notice of cancellation,
 2 the lease continues in effect; and if the lessee performs at any
 3 time thereafter within the period of 60 days, the commissioner,
 4 at his or her discretion, may continue the lease in effect.

5 31. Rights of lessor and lessee during 180-day period 6 following termination. Upon termination of this lease, whether 7 by expiration of its term or by act of either party, except as 8 necessary to comply with applicable mineland reclamation 9 statutes and rules, the lessee has 180 days after termination in 10 which to remove all equipment, materials, railroad tracks, 11 structures and other property placed or erected by the lessee . 12 upon said mining unit. Property not removed within that time 13 shall, at the discretion of the commissioner, either be removed 14 by the state at the lessee's expense or become the property of 15 the state. The lessee shall not remove or impair any supports 16 placed in any mine or mines on the mining unit, or any timber or 17 framework necessary to the use or maintenance of shafts or other 18 approaches to such mine or mines or tramways within the mining 19 unit, all of which become the property of the state. During the 20 period of 180 days, the lessee shall, at its own expense, 21 properly and adequately fence all pits, level banks, and refill 22 all test pits and cave-ins that may be deemed dangerous or are 23 likely to cause damage to persons or property, and the lessee 24 shall do all other work which the commissioner deems necessary 25 to leave the premises in a safe and orderly condition to protect 26 against injury or damage to persons or property, and shall restore the premises as nearly as the commissioner deems 27 28 practicable to the natural conditions of the surrounding area 29 and shall reclaim the premises in accordance with the applicable 30 mineland reclamation statutes and rules. Subject to the foregoing, upon the termination of this lease, whether by 31 expiration of the term hereof or otherwise, the lessee shall 32 quietly and peaceably surrender possession of the mining unit to 33 the state. During the period of 180 days, the lessee shall not 34 be relieved of any obligation or liability resulting from the 35 36 occupancy of the mining unit unless the lessee has wholly

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vacated the mining unit prior to the expiration of that period
 and has notified the commissioner thereof in writing.

3 32. Recovery of expenses. If it is necessary for the 4 state to incur expenses by court action or otherwise for the 5 ejectment of the lessee, or removal from the leased premises of the lessee's property, or recovery of rent or royalties, or for 6 7 any other remedy of the state under this lease, and the state prevails in the court action or otherwise, then the lessee shall 8 9 pay to the state all expenses, including attorney's fees, thus 10 incurred by the state.

11 33. Mining of minerals other than metallic minerals. If any ore found on or in the mining unit is primarily valuable for 12 13 other than its metallic minerals content, the terms and 14 conditions upon which the ore may be mined or products recovered 15 from it shall be as may be agreed upon by the lessee and the commissioner and approved by the state executive council. This 16 17 provision does not apply to iron ores, taconite ores, coal, oil, 18 gas, and other liquid or gaseous hydrocarbon substances.

19 34. Agreements, assignments, or contracts. All 20 assignments, agreements, or contracts affecting this lease must be made in writing and signed by all parties thereto, witnessed 21 22 by two witnesses, properly acknowledged and must contain the 23 post office addresses of all parties thereto, and when so 24 executed must be presented in quadruplicate to the commissioner 25 for record. No such instrument is valid until approved in 26 writing by the commissioner and approved as to form and 27 execution by the attorney general. No assignment or other 28 agreement relieves the lessee of any obligation or liability imposed by this lease, and all assignees, sublessees, and 29 subcontractors are also liable for all obligations or 30 31 liabilities imposed by this lease.

32 35. Lease binding on assignees and successors. The 33 covenants, terms, and conditions of this lease run with the land 34 and extend to and bind all assignees and other successors in 35 interest of the lessee.

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36. Notices. For the purposes of this lease, the

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# 3/25/88 [REVISOR ] DSN/AT AR1249 1 addresses of the parties are as follows, unless changed by 2 written notice to all parties: For the state -- Commissioner of 3 Natural Resources, State of Minnesota, 500 Lafayette Road, Saint 4 Paul, Minnesota 55155-4037; for the lessee --5