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File in jws

Western States Minerals Corporation

P.O. Box "F"
Salina, Utah 84654

February 12, 1980

State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
1588 West North Temple
Salt Lake City, Utah 84116

RECEIVED
FEB 25 1980
DIVISION OF
OIL, GAS & MINING

Attention: Mr. James Smith

Re: J. B. King Mine
Western States Minerals Corp.
ACT/015/002

Dear Jim:

In follow-up to our meeting in your office on January 22, 1980, the following information is submitted with regard to 1) The refuse disposal area; 2) The three new entries being driven out, and; 3) Plans for surface runoff control.

This letter is also in follow-up to our December 20, 1979, letter to your office which promised a timely submittal of design information pertaining to each item mentioned above. The following information is submitted for your review.

1) Refuse Disposal Area

Our refuse area is approved by the State and is operated under I. D. Number 1211-UT-9-0020. It has become necessary to revamp the refuse disposal area for two basic reasons; First, to provide control of storm water runoff from refuse material and, Second, to make better use of the area designated for refuse disposal.

On November 7, 1979, we received a Notice of Violation from the United States Department of Interior, Office of Surface Mining. The violation was given as a result of "Failure to Control Surface Runoff from Disturbed Area with Adequate Control Structures." This notice was specifically addressed toward the refuse disposal site (See Exhibit One).

From the enclosed aerial print (Map One) it is evident that there is no means to control storm water runoff on the north side of the refuse pile (North toward bottom of print). A small dike was constructed on the south side of the disposal area, but this dike was cited for being inadequate in size and location.

In order to abate the above mentioned citation, it is our proposal to construct an earth dike continuously around the refuse area perimeter and thereby all runoff water shall be channelled into the sedimentation pond. Construction of a dike as shown by Map One will eliminate the possibility of contaminated water being discharged into the natural storm drainage channel just north of the refuse disposal area. Construction of water catch basins as shown on the

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Refuse Disposal Area, Continued

map shall serve to divert runoff from the refuse area into the sedimentation pond and also to collect any overland water flow from the yard area. No water shall be discharged from the mine site without first having been treated in the sedimentation pond. A typical dike cross-section is shown as Drawing One.

All refuse placement shall be completed in accordance with requirements of 30 CFR 77.215, i.e.: 2 foot thick layers; compacted;2H-IV side slopes; 1.5 safety factor; foundation cleared of vegetation; etc. See Drawing One.

As can be seen from Drawing One, a refuse area drainage ditch shall be formed between the refuse material and the shaped earth dike. This drainage ditch shall be constructed and maintained to a minimum depth of three feet and a minimum slope of 1.0%. Such a ditch shall be capable of carrying a calculated flow of 34 C. F. S. (See Drawing Two).

Using the same storm intensity and "Rational Method" used to determine the sedimentation pond size (Q=cia) to determine runoff from the refuse pile area:

c=.63
i=2.14 in/hr
A=5 acres
Q=6.7 C.F.S.

The ditch size as shown by Drawing Two will be more than adequate.

The existing 30 inch culvert will also be more than adequate to carry the calculated 6.7 C. F. S. runoff from the refuse area into the sedimentation pond.

2) New Entries

Work has been completed to level off and face-up for a new portal area.

Five new entries are being mined outward as shown on the enclosed map (Map One). Entries three, four, and five shall extend all the way out, thus creating a new intake airway (three), a new belt haulage way (four) and a new return airway (five).

The main fan shall be relocated to the new entry five. A new belt line shall be extended from the new entry four to feed the crusher.

The old workings of the mine shall be sealed off from the new workings with explosion-proof seals as shown on Map Two.

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3) Surface Drainage

The proposed dike around the refuse pile shall be suitable to control runoff from the north side of the site and the rest of the area shall drain into the sedimentation pond. The catch basins shall collect runoff along the sides of the road. Straw bale and earth embankement combination shall be used to channel water into the catch basins.

I hope this information will answer your questions and will be sufficient for your needs.

Sincerely,

Brian Honey

Brian Honey
Chief Engineer

BH/lkc
cc: file

722-1 A
Revised 4/30/79

Notice of Violation No. N 77-5-1-6

Violation No. 1 of 2

Nature of the Violation

Failure to control surface runoff from disturbed areas with adequate control structures.

Provision(s) of the Regulations, Act, or Permit Violated

30 CFR 717.17(a)
P.L. 95-87 Sec. 516(b)

Portion of the Operation to which Notice Applies

1 - Site of proposed pre-mine refuse disposal.
2 - NE face of old waste/coal pile east of office.
3 - Surface flows from below bench and from Shoppipple, loadout sites.

Remedial Action Required (including interim steps, if any)

A - Permanent Develop a comprehensive surface runoff control plan for disturbed sites. Coordinate with State Regulatory Authority to receive approval of plan.
B - Temporary Reinforce berm below refuse site and restrict activities on old waste/coal piles to SW side of pile.

Time for Abatement (including time for interim steps, if any)

A - Submit to State by February 5, 1980
B - Take temporary measures required by November 9, 1979.

PERMITTEE/OPERATOR

19270

EXHIBIT ONE

722-1 A
Revised 4/30/79

Notice of Violation No. N 79-5-7-6

Violation No. 2 of 2

Nature of the Violation

Disposing of waste material for a permanent fill prior to receiving design review and approval from Regulatory Authority.

Provision(s) of the Regulations, Act, or Permit Violated

30 CFR 717.15
PL 95-87 Sec 511(b)

Portion of the Operation to which Notice Applies

Permanent refuse disposal site across haul/access road from sedimentation pond.

Remedial Action Required (including interim steps, if any)

Compile and present to State Regulatory Authority specific design criteria and plans for the material to be placed and being placed at proposed disposal site.

Time for Abatement (including time for interim steps, if any)

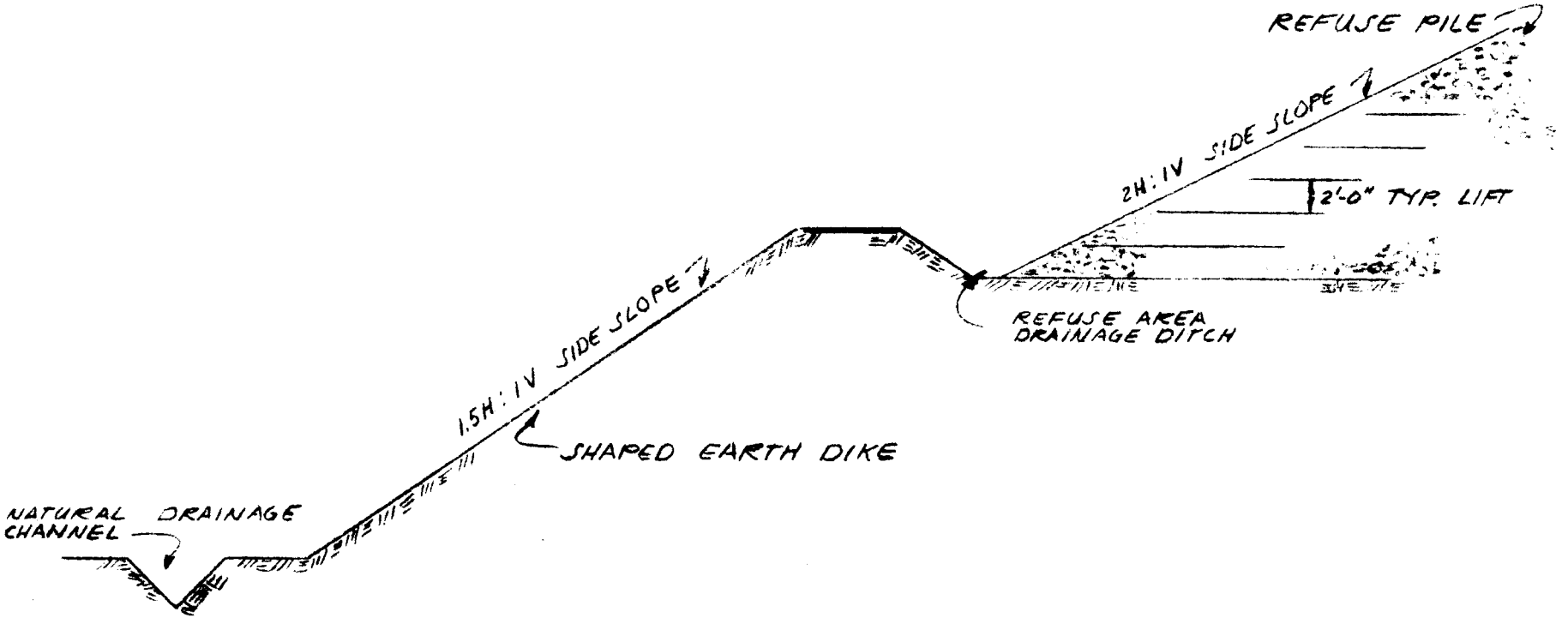
Submit by December 7, 1979.

PERMITTEE/OPERATOR

19284

EXHIBIT ONE

J.B. KING MINE
REFUSE PILE DIKE

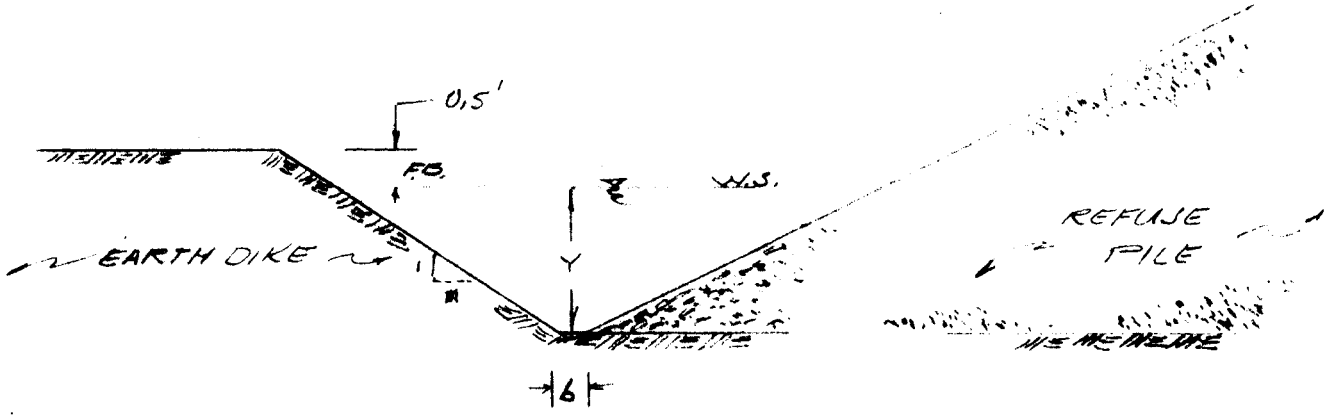


TYPICAL CROSS-SECTION

NO SCALE

DRAWING ONE

J.B. KING MINE
REFUSE DRAINAGE



DITCH SECTION - TYP.

NO SCALE

FLOW CALCULATIONS :

W.S. = WATER SURFACE

F.B. = FREE BOARD = 6"

Y = 2.5'

m = 1.5'

b = 0.5'

S = DITCH SLOPE = 1.0%

n = MANNING COEF. = 0.05

$$Q = \frac{1.49}{n} \frac{(bY + mY^2)^{5/3}}{(b + 2Y\sqrt{m^2+1})^{2/3}} S^{1/2}$$

Q = 34 CFS

DRAWING TWO