

0014

Western States Minerals Corp.

WSMC, 250 S. Rock Blvd. Suite #130,

Reno, Nevada 89502

Copy Sharon Susan
ACT/015/002 #2



Date: Sept. 13, 1999

No. of pages including cover sheet: 5

To: Pam Grubacagh-Littig

Phone: _____

Fax phone: (801) 359-3940

CC: _____

From: Buzz Gerick

Phone: (702) 856-3339

Fax phone: (702) 856-1818

REMARKS: Urgent For your review Reply ASAP Please comment

Pam - I received your request for info. on sed. pond → water pond.

① Commitment for future maintenance by land owner? Attached is my letter to Mr. Jan Parmenter, and his letter of agreement.

② Size configuration for stock pond for intended future use?

I have included pg. 8 of Soil Loss Evaluation of the Reclaimed J.B. King Mine - Emery County, UT. - It states the remaining pond capacity at the end of 1998 is estimated at 178,200 ft.³. At 7.481 gal./ft.³, this equates to ~ 1.333 million gallons of water capacity for wildlife and livestock, if completely filled. This should meet the intended use.

Regards -
Buzz

Mr. Parmenter
August 18, 1994
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I would appreciate your careful consideration of allowing WSMC to leave these two facilities in place at the site (obviously both would be in good working order upon release) after WSMC's reclamation responsibility ends.

Thank you for your consideration of this request. If you have any questions concerning this letter, please call me at your convenience.

Sincerely,

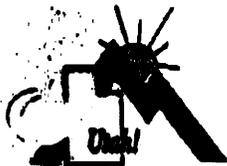


E.M. (Buzz) Gerick
V.P. Operations

cc: Ms. Pam Grubaugh-Littig UDOGM
J.B. King file

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State of Utah

School and Institutional
Trust Lands Administration

Michael C. Lavitt
Governor

Scott Hanchel
Director

Southeastern Area Office
1145 South Highway 191, Ste 5
Moab, UT 84502
Phone: 801 259-3760
Fax: 801 259-3755

September 14, 1994

E.M. Buzz Gerick
Western States Minerals Corp.
250 S. Rock Blvd., Suite 130
Reno, NV 89502

RE: JB King Minesite - Post Reclamation Maintenance

Dear Mr. Gerick:

I concur with your request to leave both reclamation facilities in place. Both facilities will enhance grazing practices on the rangeland for this area.

Should you have any questions or concerns, please feel free to contact our office in Moab at (801) 259-3760.

Sincerely,

Jan Parmenter
Trust Land Manager

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BUREAU OF LAND MANAGEMENT

From: Soil Loss Evaluation of the Reclaimed J.B. King Mine

2.2.5 Support Practice Factor (P)

The P factor accounts for control practices that reduce the erosion potential of the runoff by their influence on drainage patterns, runoff concentration, runoff velocity, and hydraulic forces exerted by runoff on soil. The supporting mechanical practices include tillage, strips of close-growing vegetation, deep ripping, terraces, diversions, and other soil-management practices oriented on or near the contour that result in the collection and storage of moisture and reduction of runoff (AH-703, Renard et al., 1997). An overall P value is computed as a product of P sub-factors for individual support practices, which are typically used in combination. For example, contouring almost always accompanies terracing. At the JB King site, several different examples of contouring are present. On the refuse pile contouring was composed of terracing, making furrows and "pocking". Pocking is a method by which small depressions are created which will enhance water collection and decrease erosion. Also, rock mulch and bio-solids were added to certain areas to help in the revegetation and stabilization process. All disturbed areas were roughened and seeded. There are a few areas on the site which have historic contours created during mining. These areas were incorporated into the reclamation. Refer to Appendix A for P factors for each area.

2.3 SEDIMENT POND VOLUME ANALYSIS

An analysis of the volume of sediment in the sediment pond was undertaken as a method to verify the results of the RUSLE program. In December of 1996, Wesley Sorensen, PE., performed a detailed survey of the sediment pond. From this survey and the yearly pond inspection reports, three topographic surfaces were constructed for the pond. The first represents the pond as when Mr. Sorensen surveyed it in 1996. The second is an engineered estimate of the pond surface as it was constructed in 1985. The final surface is an estimate of the pond surface at the end-of-1998. Figure 3 depicts the three surfaces.

The volume of sediment at the end-of-1996 is estimated at 26,800 cubic feet or 1,200 tons. From the end-of-1996 to the end-of-1998 an additional 13,500 cubic feet or 600 tons were deposited in the pond. The remaining pond capacity as of the end-of-1998 is estimated at 178,200 cubic feet or 8,000 tons. These volume estimates incorporate the following assumptions:

1. Sediment fills the pond in a uniform manner.
2. The sediment is assumed to be flat.
3. The sediment weight is 90 pounds per cubic foot.

Sediment that flows into the pond comes from two source: 1) the reclaimed site, and 2) from offsite drainages that flow onto the site. As described in the "JB King Mine Proposed Erosion Control Plan", 1992., by Hansen Allen & Luce Inc., a total of 61.9 acres of offsite drainages contributes sediment to the pond. This is in addition to 32.4 acres of reclaimed land, which contributes sediment to the pond. The total consolidated drainage basin