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WESTERN STATES MINERALS CORPORATION

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APR 22 1997
DIV. OF OIL, GAS & MINING

April 18, 1997

Susan White
Biologist
Division of Oil, Gas, & Minerals
1594 West North Temple, Ste. 1210
Box 145801
Salt Lake City, Utah 84114-5801

Routed to Susan W. then file
File #6

Re: 1996 Subsidence Survey Results; ACT/015/002, Emery County, Utah
J.B. King Reclaimed Mine Site, Western States Minerals Corporation

Dear Ms. White:

Attached please find the J.B. King subsidence monitoring results for 1996. The survey was completed by E.M. (Buzz) Gerick and Larry Berg on November 12, 1996. Elevations were measured using a self-leveling survey instrument and range rod.

A review of the most recent survey data shows stabilization with previous data for 1994 and 1995 (see attached Table). In addition, previous survey data from 1983 to 1996 has been compiled to show that the area has stabilized. Based on these monitoring results it appears that by 1984 most of the subsidence was complete and that additional yearly monitoring confirmed that the area was in equilibrium. Since the 1983 survey data was recorded, the average maximum subsidence for monitoring stations S-1 through S-8 is approximately - 0.24 ft. The 0.24 ft. of average subsidence is based on the lowest elevations recorded over a 13 year period for each station. Many of the monitoring stations showed little or no subsidence when comparisons are made between 1983 and surveys recorded in the late 1980s and 1990s.

When the survey data for years 1983 and 1996 are directly compared it is observed that only station S-1 showed any evidence of subsidence by reporting a reduced elevation measurement of - 0.06 ft. However, if the elevation measurements from 1983 and 1996 are averaged the net result in an average elevation gain of + 0.18 ft. for each station over a period of 13 years. The exact relative change is difficult to determine since some survey error may be as great as the recorded elevation changes over a period of 13 years.

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Based on the above data, it is concluded that the subsidence area at the J.B. King Reclaimed Mine has stabilized. WSMC proposes to submit an amendment to our current Reclamation Plan to cease all further subsidence monitoring. WSMC would still complete a final inspection of the area for any significant tension cracks that may manifest themselves along the perimeter of the subsidence monitoring area. If required, WSMC would fill in these tension cracks as outlined in Section 817.124. The Subsidence Control Plan outlined in Section UMC 784.20 states that the survey monuments "will be primarily for the purpose of showing lack of disturbance to adjacent properties". WSMC believes that the terms outlined in the Subsidence Control Plan have been fully fulfilled and that no additional monitoring needs to be performed.

If you have any questions or need additional information please contact me at (702) 856-3339 and I will gladly assist you. We look forward to working with the Division in amending the Permit to cease the annual subsidence monitoring.

Sincerely,
Western States Minerals Corporation

Larry D. Berg by E.M. Gerick

Larry D. Berg
Environmental Coordinator

cc: E.M. Gerick

Attachments:

1996 Subsidence Monitoring Results
1983-96 Summary of Subsidence Monitoring Results

Instrument: E.M. Gerick
Rod: L.D. Berg

J.B. King SUBSIDENCE SURVEY
November 1996
(Summarized Field Notes)

Field Survey Date:
November 12, 1996
Time : 3:30 P.M.

HI	6507.52		6497.93		6491.29		6502.69		6510.435		6520.76	
Station	**Reading**	**Elev.**	**Reading**	**Elev.**	**Reading**	**Elev.**	**Reading**	**Elev.**	**Reading**	**Elevation**	**Reading**	**Elev.**
Cap	2.02	6505.5										
S-8	6.32	6501.2										
S-7	10.29	6497.23										
S-6			9.02	6488.91								
S-5			12.65	6485.28								
S-4					1.29	6490.00						
S-3							5.60	6497.09				
S-2									5.483	6504.95		
S-1											6.185	6513.945
A-A											3.002	6517.76

J.B. KING MINE
SUBSIDENCE SURVEY
(1983 to 1996)

	STATION	A-A	S-1	S-2	S-3	S-4	S-5	S-6	S-7	S-8	CAP
Date:											
Orginal	-	6517.8	6514.0	6505.9	6501.5	6500.0	6491.0	6496.0	6507.0	6501.2	6505.5
Jun-83	-	6517.77	6514.0	6504.84	6496.81	6489.63	6484.91	6488.82	6497.00	6501.14	6505.45
May-84	-	6517.8	6513.80	6504.6	6496.9	6489.5	6484.8	6488.6	6496.7	6500.8	6505.5
Apr-85	-	6517.8	-	6504.8	6496.9	6489.8	6485.1	6489.1	6497.3	6501.6	6505.5
Jun-86	-	6517.8	6513.9	6504.9	6496.8	6489.7	6484.3	6488.3	6496.9	6501.3	6505.4
Sep-87	-	6517.8	6514.06	6504.41	6497.11	6490.00	6485.32	6488.91	6497.45	6501.59	6505.45
Sep-88	-	6517.8	6514.00	6504.59	6497.11	6490.02	6485.29	6489.01	6497.62	6501.61	6505.4
Feb-90	-	6517.8	6514	6504.8	6496.8	6489.5	6484.8	6488.6	6496.9	6501.0	6505.3
Sept. 90	-	6517.8	6514.0	6505.2	6497.3	6490.0	6485.4	6488.5	6496.7	6500.9	6505.2
Dec. 91	-	6517.78	6513.97	6504.82	6496.76	6489.58	6484.85	6488.74	6496.99	6501.12	6505.45
May-93	-	6517.8	6514.00	6504.86	6496.82	6489.67	6484.95	6488.81	6497.03	6501.14	6505.45
1994	-	-	6514.01	6504.86	6496.78	6489.6	6484.91	6488.79	6497.03	6501.15	6505.45
1995	-	6517.81	6514	6504.9	6496.81	6489.65	6484.93	6488.8	6497.03	6501.13	6505.45
1996	-	6517.76	6513.94	6504.95	6497.09	6490	6485.28	6488.91	6497.23	6501.2	6505.5

JBSUBSUM.XLS
All Elevations in Feet