

OK
015018

From: "Semborski, Chuck" <chuck.semborski@pacificorp.com>
To: "'James Smith'" <JSMITH.NROGM@state.ut.us>
Date: 4/26/02 10:19AM
Subject: FW: DBD historic photos and Deer Creek permit area reduction

Jim;

Des-Bee-Dove Mines
Thanks for the historical photo source.

Deer Creek Mine Permit Reduction
Please review the attached file:

If you have any questions please call.

Chuck

-----Original Message-----

From: James Smith [mailto:JSMITH.NROGM@state.ut.us]
Sent: Wednesday, April 24, 2002 10:53 AM
To: CHUCK.SEMBORSKI@PACIFICORP.COM; dennis.oakley@PACIFICORP.COM
Cc: Karl Houskeeper
Subject: DBD historic phots and Deer Creek permit area reduction

For help in finding photos of the Des Bee Dove site as it was before disturbance or in the early years, Luci Malin said the people at State History she recommends contacting are:
Kent Powell (801-533-3520; KPOWELL@history.state.ut.us), and
Phil Notorianni (801-533-3515; PNOTARIA@history.state.ut.us).

□-----

For the permit reduction at Deer Creek, the maps show several springs in leases ML-22509 and U-7653 (89-62, 89-63, 89-64, 89-65, 89-70, plus two without names) but none of these springs have been monitored as far as I can tell.

Were they monitored, and if so, where are the data?

If they were not monitored, why not, and how can it be determined there was no impact (would the water users agree)?

It appears only spring 89-64 has been subsided; it is located on the edge of the subsided area in U-7653, where subsidence was up to 4 feet.

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015/018

OK

Date: Friday, April 26, 2002

Jim;

Deer Creek Mine Permit Area Reduction: Hydrologic Questions

East Mountain Spring Monitoring Program (as stated in the MRP & Annual Report):

Between the time PacifiCorp began monitoring springs on East Mountain and 1986 the number of springs measured increased from less than fifty (50) to nearly eighty (80). PacifiCorp believed that more benefit could be realized by concentrating its monitoring to selective springs in the areas that will be undermined within the next five years. (See Map HM-5 in pocket.) A meeting was held on March 25, 1987 with the U. S. Forest Service and the Utah State Division of Oil, Gas and Mining to determine the most effective plan for PacifiCorp's monitoring. A subsequent meeting was held on April 15, 1987 with the State Division of Oil, Gas and Mining to finalize the monitoring plan revisions. In addition to major revisions made in 1987, each year a meeting is held with State and Federal agencies to adjust the monitoring schedule based on field investigations.

During the meetings it was resolved that the following springs will be monitored. Eight additional springs (denoted with a plus [+] symbol below) were added in 1989 after the annual field verification process jointly conducted by DOGM and PacifiCorp.

- | | |
|----------------------|-------------------------|
| * Burnt Tree Springs | 79-40 |
| * Elk Spring | 80-41 |
| * Sheba Springs | 80-43 |
| Ted's Tub | * 80-44 |
| 79-2 | * 80-46 |
| * 79-10 | 80-47 |
| 79-15 | [REDACTED] |
| * 79-23 | 80-50 |
| 79-24 | 82-51 |
| * 79-26 | * 82-52 |
| + 79-28 | * 84-56 |
| * 79-29 | + 89-60 (Alpine Spring) |
| 79-32 | [REDACTED] |
| 79-34 | [REDACTED] |
| * 79-35 | [REDACTED] |
| 79-38 | [REDACTED] |

Of these springs, twelve will be monitored on a monthly basis, weather permitting, and have been denoted on the above list with asterisks (*).

[REDACTED]

Springs within State Lease ML-22509:

89-62 – Identified in 1989

- not undermined (not included in hydrologic monitoring program)

89-63 – Identified in 1989

- undermined, western end of 4th West: no detected subsidence (not included in hydrologic monitoring program)

89-70 – Identified in 1989

- not undermined (not included in hydrologic monitoring program)

Springs within Federal Coal Lease U-7653:

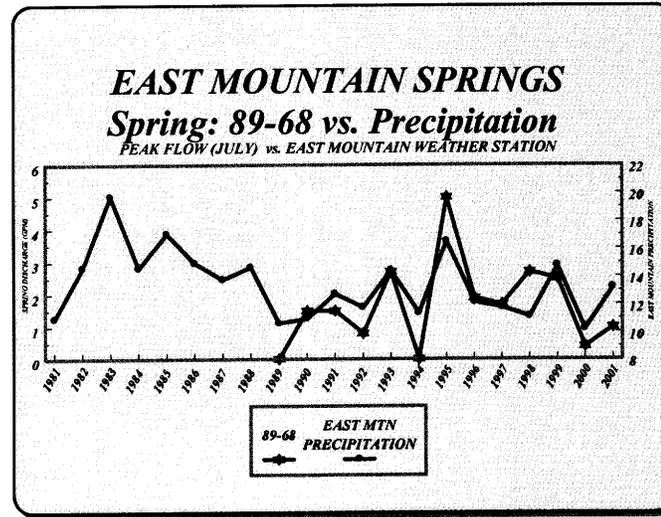
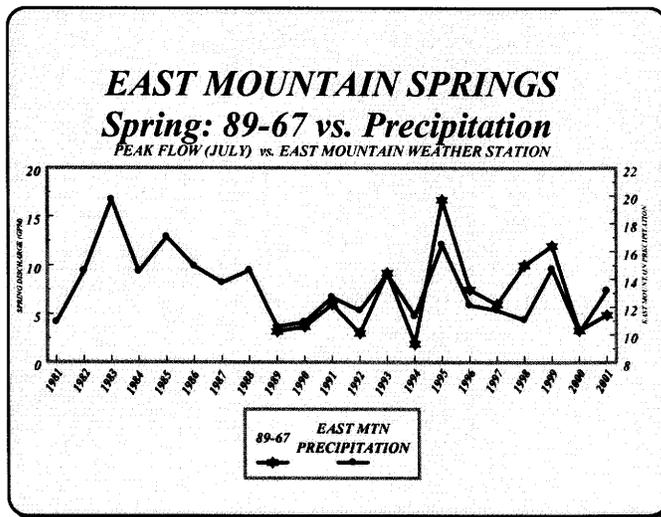
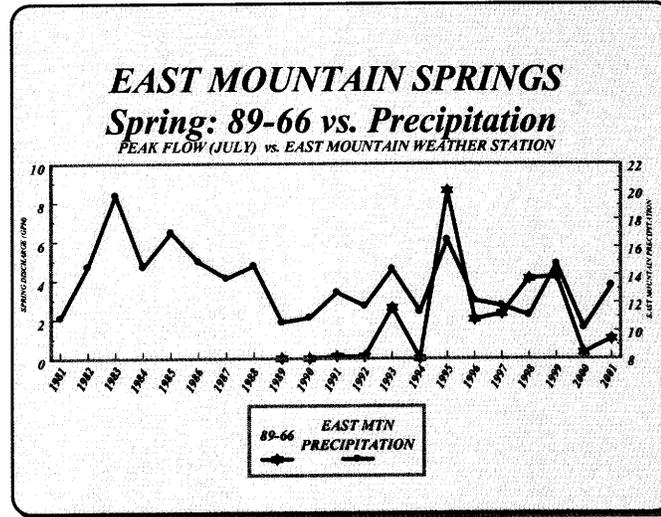
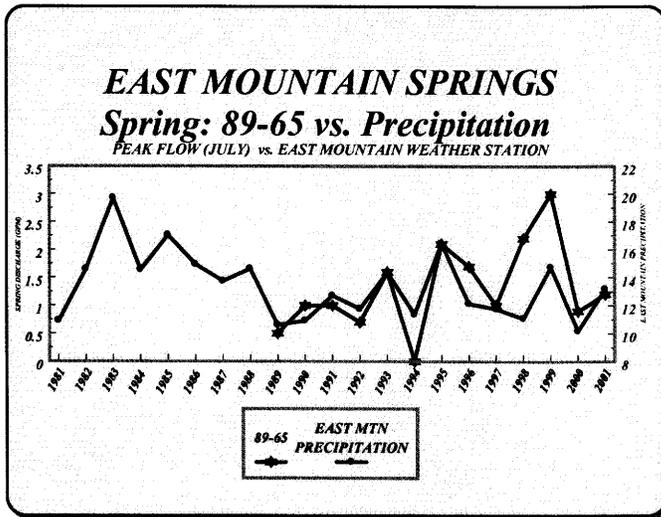
89-64 – Identified in 1989

- undermined, western end of 4th West: approximately 2–4 feet of subsidence (not included in hydrologic monitoring program)

89-65 – Identified in 1989

- not undermined (included in hydrologic monitoring program)

The following are graphs of the springs monitored within or adjacent to the two leases removed from the permit area:



Quantity:

Graphs of the springs monitored north of the Roans Canyon Fault clearly demonstrates the correlation between spring discharge and precipitation.

Quality:

To more closely identify springs that are related one with another, water samples were analyzed to determine the percentage of cations and anions in solution. The percentages have been graphically represented as cation-anion diagrams. (See 2001 Annual Hydrologic Report: Appendix H). As the cation/anion diagrams exhibit, quality of springs remain constant from high to low flow and consistent from year to year.

Summary:

The data collected from 1989-2001 continues to show the relationship between the groundwater discharge and precipitation. Hydrologic monitoring completed on East Mountain to date has failed to identify any change in the quantity or quality of groundwater that can be attributed to mining on the East Mountain.