

1993 SUBSIDENCE INVENTORY REPORT

4 MINE

MILL FORK CANYON

Mountain Coal Company
P.O. Box 591
Somerset, CO 81434

Submitted by:

Environmental Industrial Services
4855 N. Spring Glen Road
Helper, Utah 84526

October 30, 1993

Subsidence Inventory
#4 Mine, Mill Fork Canyon

SCOPE:

Beaver Creek Coal Company's #4 Mine located approximately 3 miles from the confluence of Mill Fork Creek and the Huntington River, was abandoned in the fall of 1985.

Since reclamation activities, the site has been monitored relative to vegetation success, surface and ground water quantity and quality and any evidence of subsidence. The total area comprises approximately 1,200 acres. Only 20 surface acres were disturbed in the course of mining and reclamation activities. Approximately 600 acres of the area was undermined and as such has the potential for subsidence. It was this area that was inventoried to determine if: (1) subsidence is in evidence, and, (2) if there has been adverse impacts as a result of that subsidence.

METHODOLOGY:

The actual inventory consisted of a foot and horseback inventory on September 22, 23 and 24th of 1993.

The ground inventory was conducted by horseback and foot from the top of East Mountain, down the central ridge between Mill Fork and Crandall Canyon. The ridge was inventoried out the east and

west branches of Little Bear to their intersection of Huntington Canyon. Particular attention was paid to those areas surrounding the 5 known springs and seeps, as well as the escarpments directly above the areas where maximum pillar removal had occurred. The area was first flown to attempt to see any evidence of subsidence, then on September 18, a camp was established at the top of the ridge and the area was walked. All evidence of subsidence such as sloughs, escarpment failure, slumps or tension fractures were to be located on a map and identified. After three days of searching by two E.I.S. employees, the area was felt to be adequately inventoried.

RESULTS:

No evidence of subsidence was located. All springs and seeps were located and appeared to correspond to historical flow data. It was noted the area was heavily utilized by domestic and wildlife grazing and a well established trail led to each source of water.

All the man made structures; (1) radio tower, and (2) power lines, appeared to have suffered no adverse impact as a result of subsidence. No evidence of subsidence was observed from the air or as a result of the ground survey.

E.I.S Hydrology
Pond Inspection Report

POND: #4

LOCATION: Mill Wright

<u>ITEM</u>	<u>REMARKS</u>
(1) Potential Safety Hazards	<u>None</u>
(2) Slope Stability	<u>Stabil</u>
(3) Erosion	<u>None</u>
(4) Construction and Maintenance Performance Standards	<u>Good</u>
(5) Recommendations/Comments	<u>Upper Cell - 2" Water Lower Cell Dry</u>

I have performed the above inspection on this pond and do hereby certify it to be a true and accurate representation of the pond at this time.

[Signature]
Inspector

4/12/94
Date



BLACKHAWK ENGINEERING, CO.

DAN GUY

File

4/29/94

Pam:

ACT/015/004
#6

This is for the Huntington
No. 4 Annual Report. Will
you please give it to
Susan White?

Thanks,
Dan

~~Susan~~

~~Then please file with
annual report #6. For Pam~~