



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor
Kathleen Clarke
Executive Director
Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

INSPECTION REPORT

Partial: X Complete: Exploration:
Inspection Date & Time: 06/21/2000 11:00 A.M. to 4:00 P.M.
Date of Last Inspection: 5/2000

Mine Name: Bear Canyon Mine County: Emery Permit Number: ACT/015/025
Permittee and/or Operator's Name: Co-Op Mining Company
Business Address: P.O. Box 1245, Huntington, Utah 84528
Type of Mining Activity: Underground XXX Surface Prep. Plant Other
Company Official(s): Charles Reynolds and Aldon Gustafson
State Officials(s): Robert Davidson and Wayne Western
Federal Official(s):
Weather Conditions: Snowing, cold, and low cloud deck
Existing Acreage: Permitted- 1377.75 Disturbed- 24 Regraded- 0 Seeded- 0 Bonded- 24
Increased/Decreased: Permitted- Disturbed- Regraded- Seeded- Bonded-
Status: Exploration/ XXX Active/ Inactive/ Temporary Cessation/ Bond Forfeiture
Reclamation ( Phase I/ Phase II/ Final Bond Release/ Liability Year)

REVIEW OF PERMIT, PERFORMANCE STANDARDS & PERMIT CONDITION REQUIREMENTS

Instructions

- 1. Substantiate the elements on this inspection by checking the appropriate performance standard.
a. For complete inspections provide narrative justification for any elements not fully inspected unless element is not appropriate to the site, in which case check N/A.
b. For partial inspections check only the elements evaluated.
2. Document any noncompliance situation by referencing the NOV issued at the appropriate performance standard listed below.
3. Reference any narratives written in conjunction with this inspection at the appropriate performance standard listed below.
4. Provide a brief status report for all pending enforcement actions, permit conditions, Division Orders, and amendments.

Table with 5 columns: Item, Evaluated, N/A, Comments, NOV/ENF. Contains 21 rows of inspection items with checkboxes.

## INSPECTION REPORT

(Continuation sheet)

PERMIT NUMBER: ACT/015/025

DATE OF INSPECTION: 01/25/2000

(Comments are Numbered to Correspond with Topics Listed Above)

### 4. HYDROLOGIC BALANCE

#### b. SEDIMENT PONDS AND IMPOUNDMENTS

Co-Op has been cleaning out Sediment Pond A. Water from Pond A was pumped into Pond B to allow the sediments to dry prior to removal and further drying. A recent rainstorm on Monday filled the excavated portion of the Pond A back up with water. This water will also have to be pumped out in order to continue removing sediments from Pond A.

Sediments are placed and allowed to air dry alongside the road just north of the truck scales. After placing and drying, the sediment pond waste will be placed on the coal pile pad area.

### 8. NON-COAL WASTE

The upper garbage dumpster located at the #1 mine Blind seam portal pad is noted as not being full. However, there is considerable garbage laying about the pad area which has either blown out from the dumpster or has been inadvertently tossed. Garbage debris consists of aluminum foil, pop cans, bottles, sacks, plastic, paper products, bags, etc. Charles committed to having the garbage cleaned up and to make an additional effort to control the garbage. Marlo Peterson said that he would have the garbage cleaned up today before the end of his shift.

Co-Op has been removing non-coal waste, old mining machinery, vehicles, etc., from underground during their retreat mining. This non-coal waste has been stockpiled in the lower facility pad areas until it can be hauled off and properly disposed or sold as scrap. Considerable effort has been made to promptly remove the waste and to keep the area looking clean.

### 14. SUBSIDENCE CONTROL

Subsidence has recently resulted from retreat mining from both the 1<sup>st</sup> north Tank Seam panel and the 2<sup>nd</sup> east Barrier Seam panel. One panel directly overlays the other panel, thus resulting in the 5 feet or more surface subsidence. The Barrier area lies directly west and has had no mining and will remain unmined. As a result, this surface area above the Barrier will not subside. The surface subsidence results are striking and can clearly be seen from the canyon bottom. The retreat panel area runs 70° east from true north; however, the surface subsidence crack runs about 30° east from true north. Since subsidence had to penetrate the Castle Gate Sandstone, it is hypothesized that the subsidence crack and escarpment is the result of subsidence acting on an old fault (See Appendix 1 photos 1 through 9 for documentation of the subsidence).

Co-Op plans on mitigating the resulting subsidence to eliminate any physical hazard threat to wildlife or livestock. Since no further subsidence will take place on the upside of the subsidence escarpment, Co-Op will repair and reclaim the affected surface area. An amendment to the MRP will be submitted for DOGM approval to allow Co-Op to proceed on reclamation of the subsidence area. Efforts will possible include hand shovel work, including blasting of the escarpment face to help fill in the deeper cracks and fissure openings. There should be enough native seed source to naturally vegetate the exposed soil surfaces with native grasses, shrubs and forbes.

### 16. ROADS:

#### b. DRAINAGE CONTROLS

There were several locations of roadside ditches that needed to be cleaned out, including one silt fence that is retaining sediment from recent storms. The following locations are noted for needing maintenance:

- Upper tank seam road ditch, directly across from the tank seam topsoil stockpile.
- Road ditch directly above the upper storage pad.
- UD-2 ditch silt fence filled with sediment

INSPECTION REPORT  
(Continuation sheet)

PERMIT NUMBER: ACT/015/025

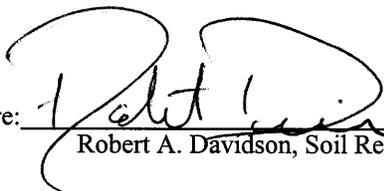
DATE OF INSPECTION: 01/25/2000

Copy of this Report:

Mailed to: James Fulton (OSM), Charles Reynolds (Co-Op Mining Company)

Given to: Pam Grubaugh-Littig (DOGM)

Inspector's Signature: \_\_\_\_\_



Date: June 27, 2000

Robert A. Davidson, Soil Reclamation Specialist

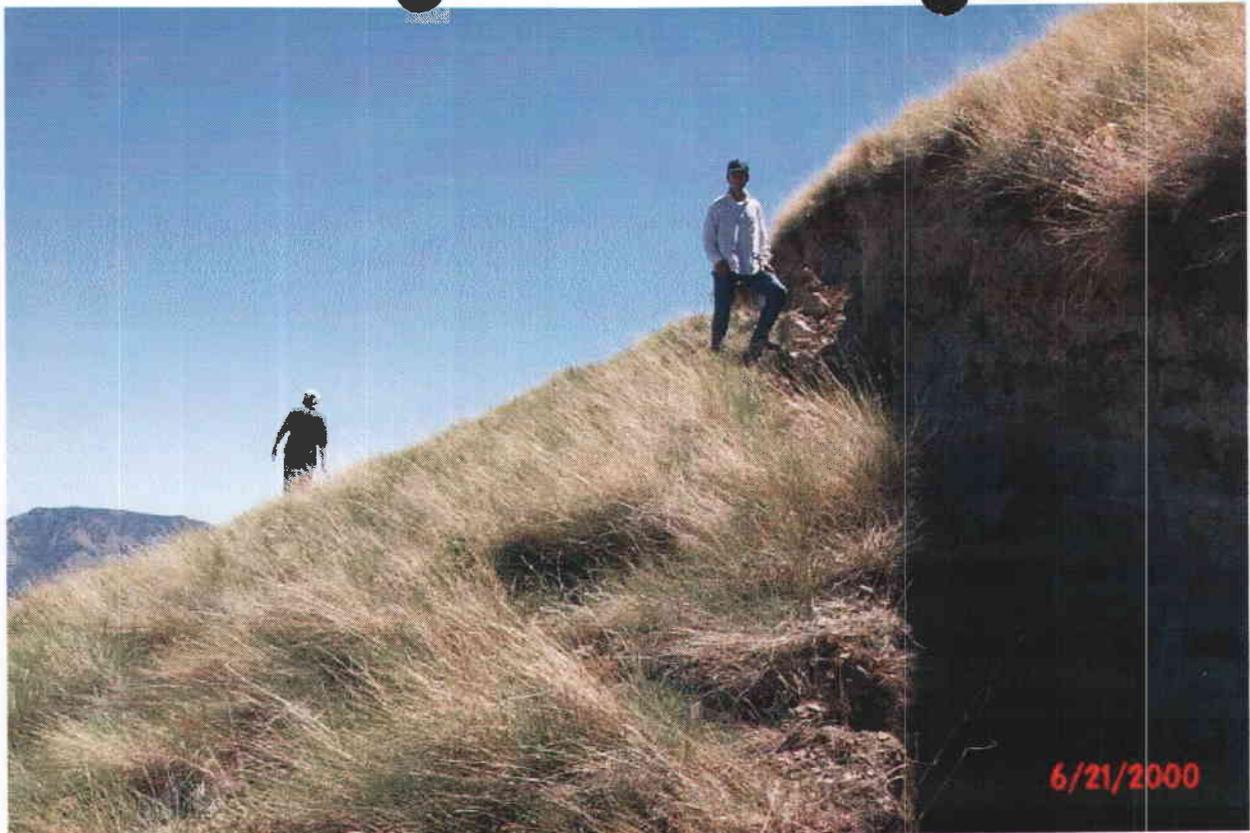
sm  
O:\015025.BCN\Compliance\2000\P\_0621.wpd



**Figure 1.** Subsidence crack seen in lower left grassy area on the middle ridge.



**Figure 2.** Subsidence crack seen running up grassy hillside from trees to ridge crest. Note the displacement on ridge line.



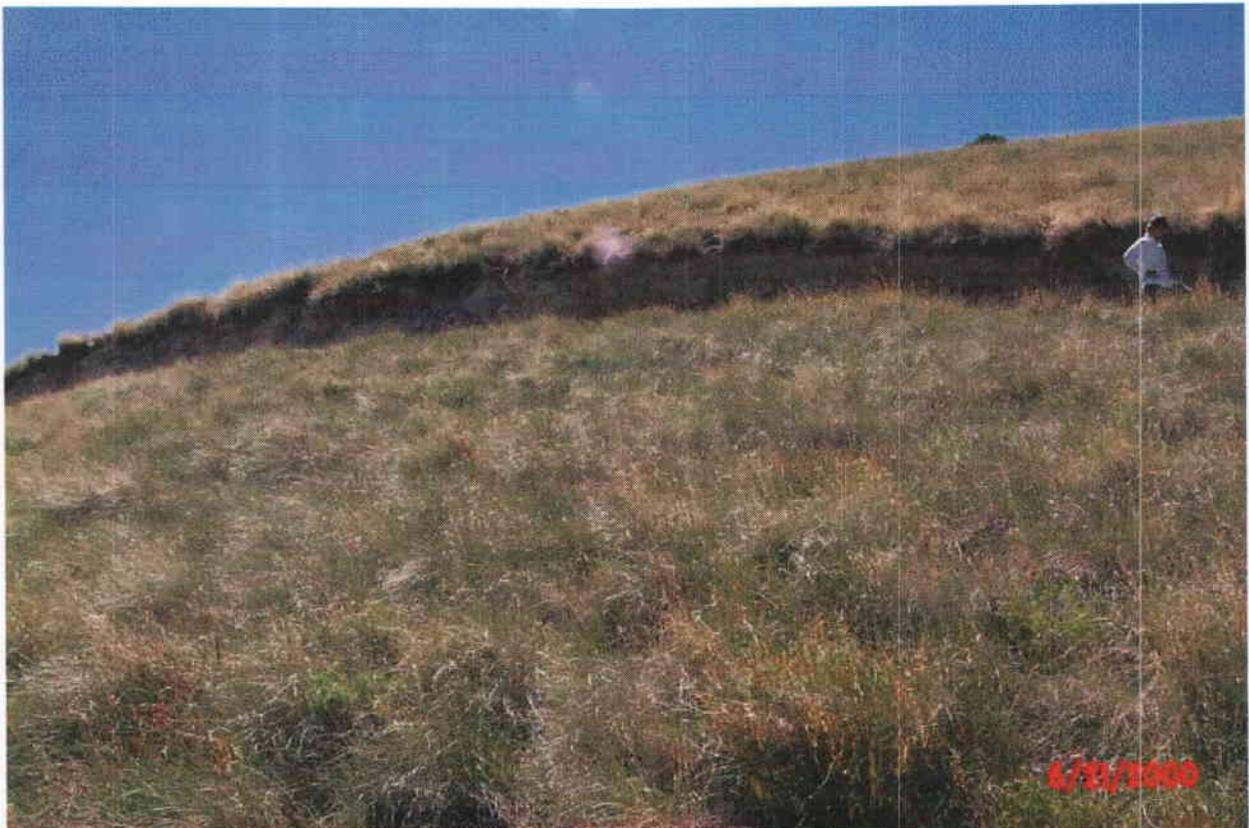
**Figure 3.** Subsidence on ridge crest. Approximately 5 feet has displaced with no fissure or chasm present in deeper soil areas.



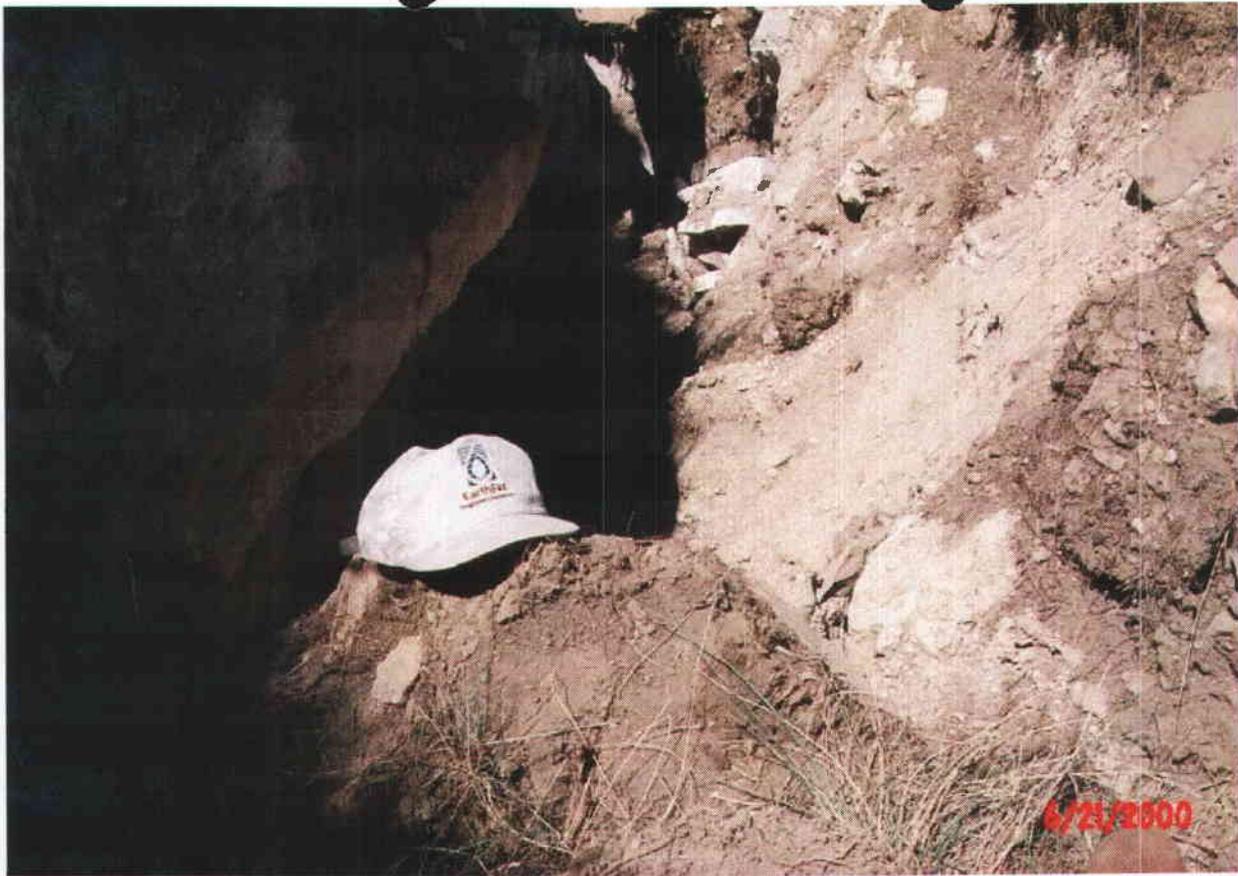
**Figure 4.** Subsidence crack runs 30° east from true north. Crack and deeper fissures form along crack toward the north.



**Figure 5.** Subsidence near ridge crest. Approximately 6 feet of displacement.



**Figure 6.** View looking southwest from below over ridge crest.



**Figure 7.** Crack opens and deepens into fissures as the subsidence moves down the slope toward the north.



**Figure 8.** Smaller tension cracks are located up the slope above the subsidence crack.



**Figure 9.** This larger tension crack is located immediately adjacent and up the slope from the subsidence crack. Wayne Western is 6 ft 6 inches tall with an equal arm span.