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# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Norman H. Bangarter  
Governor

Dee C. Hansen  
Executive Director

Dianne R. Nielson, Ph.D.  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340

GRZ  
JK

## INSPECTION REPORT

INSPECTION DATE & TIME: 9/10/91  
10:30pm - 5:30pm

Permittee and/or Operator's Name: Soldier Creek Coal Co.  
Business Address: P.O. Box I; Price UT 84501  
Mine Name: Soldier Canyon Mine Permit Number: ACT 007/018  
Type of Mining Activity: Underground X Surface Other  
County: Carbon Company Official(s): John Pappas  
State Officials(s): Priscilla Burton  
Federal Official(s): none  
Partial: X Complete          Date of last Inspection: 8/14/91  
Weather Conditions: partly cloudy, 70's  
Acreage: Permitted 4910 Disturbed 18.3 Regraded          Seeded           
Bonded 22.8 Enforcement Action: None

### COMPLIANCE WITH PERMITS AND PERFORMANCE STANDARDS

	YES	NO	N/A	COMMENTS
1. PERMITS	(x)	( )	( )	(x)
2. SIGNS AND MARKERS	( )	( )	( )	( )
3. TOPSOIL	(x)	( )	( )	( )
4. HYDROLOGIC BALANCE:				
a. STREAM CHANNEL DIVERSIONS	(x)	( )	( )	(x)
b. DIVERSIONS	(x)	( )	( )	(x)
c. SEDIMENT PONDS AND IMPOUNDMENTS	(x)	( )	( )	(x)
d. OTHER SEDIMENT CONTROL MEASURES	(x)	( )	( )	(x)
e. SURFACE AND GROUNDWATER MONITORING	(x)	( )	( )	(x)
f. EFFLUENT LIMITATIONS	( )	( )	( )	( )
5. EXPLOSIVES	( )	( )	( )	( )
6. DISPOSAL OF DEVELOPMENT WASTE & SPOIL	( )	( )	( )	( )
7. COAL PROCESSING WASTE	( )	( )	( )	( )
8. NONCOAL WASTE	( )	( )	( )	( )
9. PROTECTION OF FISH, WILDLIFE AND RELATED ENVIRONMENTAL VALUES	( )	( )	( )	( )
10. SLIDES AND OTHER DAMAGE	(x)	( )	( )	(x)
11. CONTEMPORANEOUS RECLAMATION	( )	( )	( )	( )
12. BACKFILLING AND GRADING	(x)	( )	( )	( )
13. REVEGETATION	( )	( )	( )	( )
14. SUBSIDENCE CONTROL	( )	( )	( )	( )
15. CESSATION OF OPERATIONS	( )	( )	( )	( )
16. ROADS				
a. CONSTRUCTION	(x)	( )	( )	( )
b. DRAINAGE CONTROLS	( )	( )	( )	( )
c. SURFACING	( )	( )	( )	( )
d. MAINTENANCE	( )	( )	( )	( )
17. OTHER TRANSPORTATION FACILITIES	( )	( )	( )	( )
18. SUPPORT FACILITIES				
UTILITY INSTALLATIONS	( )	( )	( )	( )

## INSPECTION REPORT

(Continuation sheet)

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PERMIT NUMBER: ACT 007/018

DATE OF INSPECTION: 9/10/91

(Comments are Numbered to Correspond with Topics Listed Above)

### 1. PERMITS

Soldier Creek's submittal for Topsoil Storage Runoff Modification was received 8/28/91 and given the number ACT/007/018/91D. The company received verbal authorization to install the culvert (from Randy Harden and Rick Summers), written authorization will follow. The submittal is being reviewed by R. Summers for information pertaining to substantiating the rainfall event that occurred on August 12.

### 4. HYDROLOGIC BALANCE

Soldier Creek and Carbon County have been receiving steady rainfall in the past week. Two storms received on Saturday exceeded the 200 year event. They received 4 inches of rain in 12 hours, measured by raingauge on the site. The 10 year/ 6 hour event for which the culverts are designed is 2.9 inches of rainfall. By the time of this inspection (one work day later), much of the clean-up work had been done.

#### a. STREAM CHANNEL DIVERSIONS

The flow from the storm broke through the berm at the end of the main mine canyon above Fan #1. Debris and water flooded the area.

Some water cascaded back into the stream channel diversion. The grating on the seven foot culvert was removed to relieve some of the flooding and help to return the water to the channel. The grating has been left off of the culvert for the time being. **SC3 must discuss this with Division hydrologists and/or amend their plan to reflect the permanent removal of this grating.**

More water continued down the main mine canyon, where the shops and other out buildings were deluged with two feet of mud. The asphalt disturbed diversion ditch routing water to the 24" culvert (under the conveyor) was gouged out and the underlying sediment was washed away. This channel will have to be rebuilt and riprapped.

The flow continued past the dropdrains, and the grated cement ditch along the main mine canyon entrance. It poured over County Road 53 and entered the stream north of the parking lot. The flow eroded the outslope of Co. Road 53, undercutting the asphalt approximately two feet. The repair of the road is being performed by the County and Siaperas Construction under the direction of mine officials. A road was cut down the buffer zone of the stream (outside the disturbed area) towards the "undisturbed drainage bypass culvert" outlet to gain access to the stream. There, a trackhoe was being used to place boulders

on the sideslopes. The County was end-dumping earth into the stream and the mix was compacted with a sheepsfoot roller. Filter fabric is also being used in this slope reconstruction.

Flow from up-canyon moved so much debris and boulders that the culvert underneath the REI access road was plugged. So was the mine water discharge pipe. The creek took a new course over the access road and back into its channel where it entered the 20' wide culvert. This culvert is 13 feet high. At one point, the water overtopped the culvert, leaving logs and other debris on top. The riprap on the culvert inlet withstood the flood. The riprap on the outlet of the culvert was washed away and will be replaced.

Further downstream, Soldier Creek eroded every outside curve of the stream, including the outslope of the sediment pond. The structure is still stable. Severe cuts in the outslope of Co. Road #53 are being filled with debris which covered the road (by County personnel).

#### **4. b. DIVERSIONS**

All diversions have been scoured clean. The ditch adjacent to the Co. Road 53 was trenched to a depth of two feet by the flood (originally 0.3' deep). The riprap around the new portal entries and down the slope South of the entries remained stable. ASCA #5 trench had been repaired at the time of my visit and was being serviced with strawbales. John Pappas has requested the use of riprap in this area in the future (rather than silt fences and strawbales as planned). (AS BUILTS will be submitted.)

#### **4. c. SEDIMENT PONDS AND IMPOUNDMENTS**

The sediment pond had discharged through the primary spillway, but not the emergency spillway. Evidence of this lies in the layer of organic debris on top of the oil skimmer of the primary spillway. The culverts which discharge into the sediment pond have sizeable deltas created below them. In future inspections the clean out level of the pond should be evaluated.

#### **4. e. SURFACE AND GROUNDWATER MONITORING**

In the first quarter of 1991, SC3 installed four water monitoring wells in the proposed wasterock disposal site. Copies of the As BUILTS of the wells were obtained. The wells were located on *draft* Plate 7-22-1. These sites were inspected. The wells are all steel capped and locked. The well casing is 4" PVC pipe. The cement grout is sound. The two higher elevation wells do not require any reseeding. The two wells by Anderson reservoir will be seeded. These wells have been monitored in the second and third quarters. The following information was in J. Pappas' field notebook.

Well Monitoring 1st and 2nd Quarters 1991

DATE	WELL ID	DEPTH TO H2O	pH	EC mmhos/cm	Temp F
5/15	MW 1C	11.6'	7.32	11.35	62.2
8/23	MW 1C	14.0'	7.61	11.54	61.0
5/15	MW 1M	37.6'	9.29	11.3	63.8
8/23	MW 1M	21.4'	8.25	11.1	61.7
5/15	MW 2M	143.8'	7.77	9.23	65.2
8/23	MW 2M	142.4'	7.88	9.5	65
5/15	MW 3M	228.6'	7.37	19.56	63.8
8/23	MW 3M	217.3	7.52	18.96	63.1

**10. SLIDES AND OTHER DAMAGE**

The slopes in the mine canyon and above the new portals remained stable. Mud and debris covered the facilities and the County road. Soldier Creek created hazardous road conditions up and down the canyon.

Copy of this Report:

Mailed to: John Kathman-OSM, John Pappas-SCCC

Given to: Daron Haddock-DOGM, Joe Helfrich-DOGM

Inspector's Signature & Number: Paul C. Benton #37 Date: 9/12/91