

### Document Information Form

Mine Number: C1041/002

File Name: Internal

To: DOGM

From:

Person N/A

Company N/A

Date Sent: APRIL 11, 1984.

Explanation:

INSPECTION memo TO COAL FILE

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cc:

File in: C1 041 , 002 , Internal

Refer to:

- Confidential
- Shelf
- Expandable

Date \_\_\_\_\_ For additional information

*File*

April 11, 1984

Inspection Memo  
to Coal File:

RE: Convulsion Canyon Mine  
Southern Utah Fuel Company  
ACT/041/002, Folder #7  
Sevier County, Utah

DATE: March 29, 1984  
TIME: 11:00 a.m. to 2:00 p.m.  
WEATHER: Fair  
COMPANY OFFICIALS: Mike Davis  
STATE OFFICIALS: Sandy Pruitt, David Darby  
ENFORCEMENT ACTION: None

Compliance With Permanent Performance Standards

UMC 771 et al Permits

All the mining permits were available for inspection as required. No new permit revisions have been granted since the last quarterly inspection December 9, 1983.

UMC 817.11 Signs and Markers

All required signs and markers are posted and clearly visible.

UMC 817.41-.57 Hydrologic Balance

The drainage ditch to the silt fence at the southern end of the parking lot is not adequately graded for drainage control. Ponding in the ditch enhances the potential for infiltration into the fill adjacent to the previous slide area. This drainage ditch should be reestablished and lined to prevent infiltration, insuring slope stabilization. Mike Davis suggested plans to widen the ditch to install double the length of siltfence at the end, increase the pitch of the ditchline and line it with a half-round culvert, cement or conveyor belt.

A six inch culinary water line broke at a bend in the pipeline beneath the substation. Water was discharged off site by the undisturbed drainage diversion recently established along the Class III access road. The water partially saturated the substation pad. Tension cracks have surfaced on the pad and at the substation, larger cracks are evident or above the slope. A point along the slope just above the major slope is ready to fail and may start a

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the sedime  
picking up

File in:  
 Confidential  
 Shelf  
 Expandable  
Refer to Record No. 0004 Date 4-11-84  
In C/ 041, 002, Internal  
For additional information

ed stable. The discharge from  
ed flowing through the mudflow  
in the sediment pond.

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A six inch culinary water line broke at a bend in the pipeline beneath the substation. Water was discharged off site by the undisturbed drainage diversion recently established along the Class III access road. The water partially saturated the substation pad. Tension cracks have surfaced on the pad and about 20 feet up the slope above the substation, larger cracks are evident on the outslope below the substation. A point along the slope just above the northeast corner of the office appears ready to fail and may start a major slope failure including the substation.

The slide down to the sediment pond appeared stable. The discharge from the sediment trap has changed course and started flowing through the mudflow picking up additional sediment for deposition in the sediment pond.

Kerry Frame called Sandy Pruitt on March 2, 1984 to notify DOGM of a leak (approximately 2 gpm) in the sediment pond discharge structure through which about 1/3 acre feet of water was lost since the leak was first discovered February 29, 1984. The leak was caused by an ice build-up, about 18 inches thick, which rose with the water level during runoff from snow melt and pushed the stem pipe up out of its socket in the concrete thrust block so that water leaked around the loose connection. To repair the leak SUFCO obtained authorization on March 7, 1984 to lower the water level by decanting the pond by hoisting the standpipe up the thrust block. The water samples were to be taken the before the decant and hourly thereafter. The gap was to be closed off if the water appeared turbid. Karry Frame reported at 3:30 p.m. March 7, 1984 that the leak had been repaired with a petroleum base caulking around the seam. The standpipe was secured to the walkway with turn buckles to prevent ice raising the standpipe again. The project was completed about 2:00 p.m. when there was an inflow rate approximately 3-4 gpm. The first water sample obtained was reportedly clear but they were increasingly more turbid as the standpipe was raised and lowered disturbing sediments in the bottom of the pond. This unanticipated bypass of sediment control facilities was reported to State Health and the EPA in a letter dated March 12, 1984.

SUFCO's evaluation of TDS sources in the mine was discussed with Wes Sorenson. He has toured the mine works with a conductivity meter to locate TDS concentration points. They measured a TDS level of approximately 650 mg/l at the outlet from their large reservoir in the mine by section 2E. This drainage is released to gravity flow along the 1st north haulway where 1000 mg/l TDS was detected. The drainage continues toward the 5N reservoir and is diluted on the way by drainage pumped from section 3W containing 300 mg/l TDS and 2W containing 400 mg/l TDS. They suspect that much of the TDS could be picked up along the haulway and that samples obtained while pumping sections 3W and 2W were of better quality by dilution. Water in a pump hole by a new section to 2R 4E was analyzed to contain 1200 mg/l TDS at 4°C. This indicates that surface water flow in the mine has high TDS levels as most of the water under ground was 10° centigrade. SUFCO attempted to melt some ice underground with salt, calculating the amount that would raise the TDS level only 5 mg/l (about 200 lbs. per week) but unfortunately following that time the TDS level at the discharge point rose 80 mg/l. Water samples obtained underground are analyzed for sodium chloride and calcium. By oversight sulfate was not analyzed. SUFCO may consider analyzing magnesium concentrate out. Excess TDS levels from point source 003 have all been reported to DOGM on December 1, 1983 (for October), January 13, 1984 (for December), February 12, 1984 (for January) and April 9, 1984 (for March).

#### UMC 817.99 Slides and other Damage

The mudflow filled down to the sediment pond was reported on January 4, 1984. SUFCO committed to monitor the discharge opening from the sediment trap for any blockage to and reseed the mudflow path in spring.

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UMC 817.121-126 Subsidence Control

Wes Sorenson mentioned that section ElW was pillared in 1977 and there has been no surface damage resulting from subsidence evident. The depth and type overburden is similar to that above section 5N where DOGM and USFS have concerns on subsidence.

First mining is near completion at 5N the section then will be sealed and equipment moved to 1R3N. First mining is nearly complete at 1R1W equipment will then be moved to 3R1W. Secondary mining in section S1L2W will be complete in about 2 months. Primary mining will be complete in section 1R4E and equipment moved to 2R4E soon. Pillar mining is underway in section 1L4E.

The 1983 subsidence report is forthcoming. Access to the subsidence area reported by the USFS in October is still impossible due to about a three foot snow cover.

Sandy Pruitt   
Field Specialist

SP:re  
cc: Mike Davis, SUFCO  
Jodie Merriman, OSM  
Joe Helfrich, DOGM

Statistics: See Price River Coal memo dated April 4, 1984  
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