

March 30, 1979

Memo to File:

RE: Utah Coal and Energy
Black Hawk Mine
ACT/043/001
Sec. 36, T. 3N., R. 6E.
Summit County, Utah

On the afternoon of March 28, 1979, Doug Stewart and Mike Thompson inspected Utah Coal and Energy's Black Hawk Coal Mine. The purpose of the inspection was twofold; to examine three generators that the company wants to offer as security interest, and observe surface hydrology during snowmelt.

The three generators, described in the March 26, 1979 letter from Ms. Peuler, were found in the lower shop building. The generators were not operational at the time, but Mr. Stewart stated that they appeared to be in good condition and could easily be worth the amount of the proposed reclamation bond. It should be noted that Lindquist Boiler Company, 1374 South State Street, Salt Lake City, Utah, is presently repairing parts of the generators. Ownership of the generators must be thoroughly cleared.

Very little snow was remaining on the disturbed area; however, snowmelt from above the site was running onto the surface pad. This runoff was not infiltrating into the compacted gravel pad as Mr. Charles Shanon claimed. Rills were evident on the surface. Runoff from the lower equipment storage area was flowing down the road to Chalk Creek at an approximate rate of three gallons per minute. This runoff contained considerable sediment and a strong oil sheen was visible. The runoff was somewhat impounded in the undisturbed grassy area between the pad and Chalk Creek. However, it was evident that runoff containing sediment and oil had flowed into the creek. Polaroid and slide photographs were taken to document the occurrence. Water samples were taken of ponded water on the pad that contained oil and of the flowing water. The samples will be analyzed for oil-and-grease and total suspended solids.

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The Board of Oil, Gas, and Mining issued an immediate abatement order halting mining activities on February 28, 1979. The Division is presently researching enforcement measures that can be taken. In the mean time, the Division of State Health will be notified so that appropriate actions can be taken.

K. MICHAEL THOMPSON
ENGINEERING GEOLOGIST

K.M.T.

Vehicle - EX 68804
Total miles - 117
Man hours - 8

KMT/te

cc: Steve McNeal, Division of State Health

Office of Surface Mining, Denver

John Blake, Division of State Lands

UTAH STATE DIVISION OF HEALTH
BUREAU OF WATER QUALITY
WASTEWATER ANALYSIS

Lab. No.
Form 758
Rev. 6/78

W

790630

701

Field No. #1 Date Received 1/11/79 - 2/1979

To Be Filled Out By Sampler

Store No. [] Date Collected 3/28/79 Time Collected 11:00
702 mo. in day yr. 714 24-hour clock 610
Exact Description of Sampling Point
Puddle on mine 646
Pad Black Hawk Mine 647
[] 710

Supply Owned by
Ut Coal & Energy 712

Supply Collected by
K Michael Thompson 713

SEND REPORT TO:

Div Oil Gas & Mining 715
[] 648
[] 717
zip code

14 Source 719
01 Spring 07 Effluent well
02 Well 08 Storm sewer pool
03 Stream 14 Other
06 Dist. syst. 15 Tunnel

22 County 611
01 Beaver 11 Iron 21 Sevier
02 Box Elder 12 Juab 22 Summit
03 Cache 13 Kane 23 Tooele
04 Carbon 14 Millard 24 Uintah
05 Daguerre 15 Morgan 25 Utah
06 Davis 16 Piute 26 Wasatch
07 Duchesne 17 Rich 27 Washington
08 Emery 18 Salt Lake 28 Wayne
09 Garfield 19 San Juan 29 Weber
10 Grand 20 Sanpete

Field Tests

Temperature (°C)	792	CO ₂ , mg/l	722
D.O., mg/l	793	Depth, m	609
Sp. Cond. μ mhos	653	Cl Resid., mg/l	753
pH	651	Flow, MGD	652
Sp. Gravity	608	Flow, GPM	604
Transparency, m	649	Flow, cfs	659

Examine for Items Checked

Temperature (°C)	650	pH	782
B.O.D. ₅ mg/l	794	Oil & Grease mg/l	780
Tot. Sus. Solids	787	T.O.C.	671
T.D.S.	786	C.O.D.	777
Ammonia, N	722	Cyanide	775
NO ₂ +NO ₃ , N	602	Phenolics	783
T.K.N.	778	Chloride	763
Tot. Phosphorus	785	Sulfide	672

INTERPRETATION OF ANALYSIS: Based on State Standards, this sample was:

Remarks:
Oil & Grease
11.3 mg/l

B.O.D.₅ []
Tot. Sus. Solids []
M.P.N. Fecal Coliform []
M.P.N. Total Coliform []

By []
Bureau of Water Quality

Satisfactory []
Conditional []
Unsatisfactory []

M.P.N. Total Coliforms /100ml [] 658
M.P.N. Fecal Coliforms /100ml [] 657
Fecal Strep C/100ml [] 656

LABORATORY SECTION

[]
Analysis Approved By

Date Reported 4/11/79

UTAH STATE DIVISION OF HEALTH
BUREAU OF WATER QUALITY
WASTEWATER ANALYSIS

Lab. No.

W 790630

701

Field No. _____ Date Received APR - 2, 1979

Form 58
Rev. 7/67

To Be Filled Out By Sampler

Store No. _____ Date Collected 3/28/79 Time Collected 11:00
702 mo. 5 days yr. 714 24-hour clock 610

Exact Description of Sampling Point
Ranals from mine site 646
647
648
649
650

Supply Owned by
Ut Coal Energy 712

Supply Collected by
K Michael Thompson 713

SEND REPORT TO:

DIV OIL GAS MINING 715
648
649
650
zip code _____

14 Source 719
01 Spring 07 Effluent well
02 Well 08 Storm 19 Swimming pool
03 Stream sewer pool
04 Lake 14 Other
06 Dist. syst. 15 Tunnel

22 County 611
01 Beaver 11 Iron 21 Sevier
02 Box Elder 12 Juab 22 Summit
03 Cache 13 Kane 23 Tooele
04 Carbon 14 Millard 24 Uintah
05 Daguerre 15 Morgan 25 Utah
06 Davis 16 Piute 26 Wasatch
07 Duchesne 17 Rich 27 Washington
08 Emery 18 Salt Lake 28 Wayne
09 Garfield 19 San Juan 29 Weber
10 Grand 20 Sanpete

Field Tests

Temperature (°C) -----	792	CO ₂ , mg/l -----	572
D.O., mg/l -----	793	Depth, m -----	609
Sp. Cond. μ mhos. -----	653	Cl Resid., mg/l -----	753
pH -----	651	Flow, MGD -----	652
Sp. Gravity -----	608	Flow, GPM -----	604
Transparency, m -----	649	Flow, cfs -----	659

Examine for Items Checked

Temperature (°C) -----	650	pH -----	782
B.O.D. ₅ -----	mg/l 794	Oil & Grease -----	mg/l 9329 780
Tot. Sus. Solids -----	787	T.O.C. -----	671
T.D.S. -----	786	C.O.D. -----	777
Ammonia, N -----	722	Cyanide -----	775
NO ₂ +NO ₃ , N -----	602	Phenolics -----	783
T.K.N. -----	778	Chloride -----	763
Tot. Phosphorus -----	785	Sulfide -----	672

INTERPRETATION OF ANALYSIS: Based on State Standards, this sample was:

Remarks: Oil & Grease
9,329.0 mg/l
By Am
Bureau of Water Quality

B.O.D. ₅ -----	
Tot. Sus. Solids -----	
M.P.N. Fecal Coliform -----	
M.P.N. Total Coliform -----	

M.P.N. Total Coliforms /100ml -----		658
M.P.N. Fecal Coliforms /100ml -----		657
Fecal Strep C/100ml -----		656

LABORATORY SECTION

Analysis Approved By [Signature] Date Reported 4/11/79