

0001

Document Information Form

Mine Number: C/015/018

File Name: Internal

To: DOGM

From:

Person N/A

Company N/A

Date Sent: December 20, 1983

Explanation:

Inspection Memo

cc:

File in: C/015, 018, Internal

Refer to:

- Confidential
- Shelf
- Expandable

Date _____ For additional information

December 20, 1983

Inspection Memo
to Coal File:

RE: Utah Power And Light Company
Deer Creek Mine
ACT/015/018
Emery County, Utah

DATE: November 30, 1983
TIME: Office 9:15 a.m.-10:45 a.m.
Field 1:45 p.m. -3:00 p.m.
WEATHER: Overcast 8 to 10 inches of snow with
intermittent snow showers.
COMPANY OFFICIALS: Larry Guymon, Val Payne
STATE OFFICIAL: Ken Wyatt
ENFORCEMENT ACTION: None

Compliance with Permanent Performance Standards

UMC 771 et al Permit

Applicable letters and approvals available at the mine office included :

1. A May 11, 1978 letter from Ron Daniels of the Division granting interim approval for the Deer Creek Mine.
2. A US Forest Service special use permit dated March 7, 1978 for 5.85 acres of land to be used as parking and material storage areas. This special use permit was modified on March 26, 1981 to allow for the relocation of tracks to the eastern portion of this area.
3. The replacement mine wastewater disposal system was approved by the Division of State Lands on September 19, 1983. This approval allowed the relocation of the sewage treatment leach field onto State Lands, special use lease application #284. Approval of this relocation is contingent upon Utah Department of Health and Division of Oil, Gas and Mining approvals
 - (a) The Utah Department of Health Division of Environmental Health approved the design of the new system via a letter dated October 4, 1983 from Calvin Sudweeks.

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- (b) The Utah Division of Oil, Gas and Mining approved the new system on October 27, 1983 in a letter to Chris Shingleton from Jim Smith.

UMC 817.11 Signs and Markers

1. Appropriate signs and markers included one mine identification sign posted along the mine access road which contained the required information.
2. Perimeter markers in the form of white signs with black lettering were posted conspicuously along the permit area boundary.

UMC 817.41.52 Hydrological Balance

The undisturbed ditches above the terraces on the south side of the mine site had been maintained since the previous inspection. The actual ditch was not examined due to snow depth. The access of heavy equipment across the Deer Creek undisturbed diversion culvert inlet was evidenced by the removal of a tree as was approved earlier this fall.

The erosion on the fan pads downslope west of the office building had been backfilled since the previous inspection. Material excavated from the above mentioned diversion ditch maintenance work had been used as fill material.

The undisturbed diversion inlets up Deer Creek and Elk Canyon were both unobstructed and appeared well maintained. Water was observed flowing in both of these drainages.

The siltfences installed along the mine access road ditch appeared adequately maintained. These ditches were both filled with snow at this time. The wastewater treatment leach field has not been replaced. The sewer pipes were still being installed at the time of this inspection along the northwest side of the mine access road. This pipe line was almost completed and the operator indicated that the leach field would be constructed within one more month. In the meantime Neilson Construction Company is still pumping and hauling the excess wastewater from the septic tanks to the Huntington City Lagoons.

UMC 817.52 Surface and Groundwater Monitoring

The Deer Creek Mine was issued NPDES Permit #UT-0023604 effective May 18, 1982. This permit expires December 31, 1986 and allows discharge from the sedimentation pond into Deer Creek. There had been no discharges from the sediment pond during the fourth quarter of 1983.

Surface and groundwater monitoring information was available for the third and fourth quarter of 1983. These data are illustrated in Table I.

TABLE I

DATE		Flow GPM	Temp. OF	pH	TSS mg/l	Fe	MN	TDS	Cond.
5/9	A*	500	36	8.0	164	.74	.05	319	-
	B	500	50	8.0	557	2.12	.15	637	-
6/13	A	1500	48	8.1	56	.23	.03	340	575
	B	1500	48	8.1	183	.66	.05	407	650
7/11	A	500	52	8.2	.5	.12	.01	287	-
	B	500	62	8.3	7.5	.30	.02	371	-
8/9	A	480	57	8.2	13	[.05	[.01	280	525
	B	480	74	8.6	15	.06	[.01	409	725
9/13	A	250	44	8.4	7.5	[.05	[.01	310	550
	B	240	57	8.5	6.5	[.05	[.01	478	850
10/11	A	152	44	8.3	[.5	[.05	[.01	330	610
	B	152	52	8.5	9.0	.11	.01	491	900

* A indicates above Mine Sample
 * B indicates below Mine Sample

After examining the May and June data a problem with the surface and groundwater monitoring plan is apparent. It appears that during the spring runoff months a bias occurs in the surface water monitoring program. Since the below mine sample is collected from Deer Creek near the power plant According to the latest submittal, map CE-10495-DR entitled "Hydrology Data Map of the Deer Creek Mine Permit Area", the below mine sample is about two miles below the mine site.

This was discussed in a memo to the coal file dated September 21, 1983. Utah Power and Light should consider modifying the existing surface water monitoring plan by installing an additional sampling point directly below the mine. This additional point would help Utah Power and Light adequately demonstrate according to UMC 784.14(b)(3) and UMC 817.52(b) that the mine is in compliance and not contributing sediments to Deer Creek as the current plan tends to do.

UMC 817.71-.73 Disposal of Underground Development Waste and Excess Spoil, and Non Acid and Nontoxic Forming Coal Processing Waste

Any underground development waste that is produced underground is gobbled underground in the mine workings.

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UMC 817.81-.93 Coal Processing Waste

Any waste rock accumulated during the sorting process is disposed of on the eastern end of the material storage pad in order to bring this pad up to grade and help facilitate drainage.

UMC 817.89 Disposal of Noncoal Waste

Noncoal wastes produced at the Deer Creek Mine are hauled to the Hunter Power Plant for disposal in the sanitary land fill there.

UMC 817.111-.117 Revegetation

The only areas that have been reclaimed during the fall 1983 included sites along the mine access road shoulders. The operator indicated that they were still awaiting for the arrival of the seed mix. A temporary annual had been planted at the time of reclamation. It should be noted that two of the reclaimed areas had been redisturbed for the installation of the pipeline leading to the soon to be constructed leachfield. These areas will again need to be reclaimed next spring or potentially this winter should a thaw occur.

Ken Wyatt *KW*
Field Specialist

KW:re

cc: Tom Ehmett, OSM
Larry Guymon, Emery Mining Corporation
Joe Helfrich, DOGM
Mary Boucek, DOGM

Statistics: See UP & L's Des Bee Dove memo dated December 19, 1983