

0021



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

INSPECTION REPORT

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Partial:___ Complete: X Exploration:___
Inspection Date & Time: March 31, 1994/8:30 am - 4:30 pm
Date of Last Inspection: February 28, 1994

Mine Name: Deer Creek County: Emery Permit Number: ACT/015/018
Permittee and/or Operator's Name: PacifiCorp
Business Address: P.O. Box 1005, Huntington, Utah 84528
Type of Mining Activity: Underground X Surface___ Prep. Plant___ Other___
State Officials(s): Ken Wyatt, Scott Milovich
Company Official(s): Val Payne
Federal Official(s): None
Weather Conditions: Cool, Partly cloudy
Existing Acreage: Permitted-14,740 Disturbed-56 Regraded-___ Seeded-___ Bonded-56
Increased/Decreased: Permitted-___ Disturbed-___ Regraded-___ Seeded-___ Bonded-___
Status: Exploration/ X 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

- Substantiate the elements on this inspection by checking the appropriate performance standard.
 - 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.
 - For partial inspections check only the elements evaluated.
- Document any noncompliance situation by referencing the NOV issued at the appropriate performance standard listed below.
- Reference any narratives written in conjunction with this inspection at the appropriate performance standard listed below.
- Provide a brief status report for all pending enforcement actions, permit conditions, Division Orders, and amendments.

	EVALUATED	N/A	COMMENTS	NOV/ENF
1. PERMITS, CHANGE, TRANSFER, RENEWAL, SALE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. SIGNS AND MARKERS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. TOPSOIL	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. HYDROLOGIC BALANCE:				
a. DIVERSIONS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. SEDIMENT PONDS AND IMPOUNDMENTS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. OTHER SEDIMENT CONTROL MEASURES	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d. WATER MONITORING	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e. EFFLUENT LIMITATIONS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. EXPLOSIVES	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. DISPOSAL OF EXCESS SPOIL/FILLS/BENCHES	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. COAL MINE WASTE/REFUSE PILES/IMPOUNDMENTS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. NONCOAL WASTE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. PROTECTION OF FISH, WILDLIFE AND RELATED ENVIRONMENTAL VALUES	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. SLIDES AND OTHER DAMAGE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. CONTEMPORANEOUS RECLAMATION	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. BACKFILLING AND GRADING	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
13. REVEGETATION	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. SUBSIDENCE CONTROL	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15. CESSATION OF OPERATIONS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16. ROADS:				
a. CONSTRUCTION/MAINTENANCE/SURFACING	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. DRAINAGE CONTROLS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
17. OTHER TRANSPORTATION FACILITIES	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18. SUPPORT FACILITIES/UTILITY INSTALLATIONS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
19. AVS CHECK (4th Quarter-April, May, June)_____ (date)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20. AIR QUALITY PERMIT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21. BONDING & INSURANCE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

INSPECTION REPORT

(Continuation sheet)

Page 2 of 6

PERMIT NUMBER: ACT/015/018

DATE OF INSPECTION: March 31, 1994

(Comments are Numbered to Correspond with Topics Listed Above)

1. **PERMITS, CHANGE, TRANSFER, RENEWAL, SALE**

The following permits and approvals were examined at the operator's field office.

The reclamation agreement for \$2,000,000 was dated September 11, 1992. This was revised on February 9, 1994 to increase the acreage from 78.69 acres to 93.29 which resulted from the addition of the diversion terrace above the office and bathhouse. The submittal addressing the terrace and the reclamation of this terrace was submitted in 1993. The maps were approved which incorporated the terrace into the permit area. The review of the reclamation portion of this submittal has been postponed pending the development of the Division's Approximate Original Contour policy.

Two additional lease tracts were recently added to the permit area through an Incidental Boundary Change. This included leases U-47977 and SL-050862 which was approved by the Division director James Carter on June 9, 1993. This approval was to become effective upon the Secretary of the Interior's approval which was granted on July 22, 1993.

UPDES permit #UT-0023604 was issued to the Deer Creek Mine on November 24, 1992, effective December 1, 1992 through November 30, 1997.

The Spill Prevention and Countermeasure Control Plan was dated and certified on September 24, 1990, by Steven Kochevar.

2. **SIGNS AND MARKERS**

The mine identification sign, perimeter markers, stream buffer zone and topsoil signs were posted as required. Maintenance work is needed on some of the perimeter markers which were damaged during the winter. The perimeter markers around the newly incorporated diversion terrace needs to be placed when the ground surface thaws.

3. **TOPSOIL**

No topsoil is stored at the Deer Creek Mine. Topsoil removed during construction of the waste rock site was placed on the out slopes of the access road and around the perimeter of the waste rock area. The silt fence protecting it from loss was intact but is beginning to show signs of weakness. The operator should inspect and replace those sections that are starting to wear to prevent failure.

INSPECTION REPORT

(Continuation sheet)

Page 3 of 6

PERMIT NUMBER: ACT/015/018

DATE OF INSPECTION: March 31, 1994

4a. HYDROLOGIC BALANCE: DIVERSIONS

The undisturbed diversion inlets in Deer Creek, Deer Canyon and Elk Canyon were unobstructed. Snow and ice were still filling the Deer Creek channel above the mine. No flow was observed in any these drainages.

The terrace diversion above the office/bathhouse had some material which had sloughed from the cut above. The operator should monitor this area during the spring freeze/thaw to insure that further sloughing does not block the drainage. Ice was observed in the diversion.

4b HYDROLOGIC BALANCE: SEDIMENT PONDS AND IMPOUNDMENTS

The fourth quarter 1993 sediment pond inspection was conducted on December 21, 1993. The top ice (water level) at the mine pond was recorded at 7220.48 feet. Sediment levels were measured at .60 acre feet which leaves an additional 1.27 acre feet of sediment capacity. The waste rock pond was dry. The sediment storage capacity was .59 acre feet. No stability or other problems were noted in these reports.

4c. HYDROLOGIC BALANCE: OTHER SEDIMENT CONTROL MEASURES

The silt fences along the access road to the waste rock site were intact. The catch basin/silt fences along the conveyor line were clean and functional. No flow was observed in these ditches.

Twelve areas within the permit area have been designated as Alternative Sediment Control Areas (ASCAs). These areas are listed below with the corresponding areas.

#	AREA	ACRES	#	AREA	ACRES
1	Sediment pond & C1 conveyor	2.40	7	Leachfield	1.50
2	Powder magazines	0.10	8	C2 conveyor	3.04
3	Road	0.28	9	C2 conveyor	4.9
4	Road	0.43	10	Meetinghouse fan portal	0.02
5	C1/C2 Conveyor transfer	2.27	11	Waste Rock Access Road	0.69
6	C2 Conveyor	1.54	12	Waste Rock berm outslopes	1.72

INSPECTION REPORT

(Continuation sheet)

Page 4 of 6

PERMIT NUMBER: ACT/015/018

DATE OF INSPECTION: March 31, 1994

4d. HYDROLOGIC BALANCE: WATER MONITORING

Water monitoring data was examined for the fourth quarter 1993 and January and February 1994. One anomaly was noticed in the February sample where the field conductivity was reported at 1140 and the lab conductivity was 16,900. According to Chuck Semborski this ten fold error resulted from reading the conductivity meter on the wrong scale. The filed conductivity should be reported as 11,400.

4e. HYDROLOGIC BALANCE: EFFLUENT LIMITATIONS

The mine sediment pond was discharging 0.18 feet on a 90 degree V-notch weir. This equals 15.9 gallons per minute. Fourth quarter 1993 through February 1994, water monitoring data showed the sediment pond discharging as follows:

MONTH	GPM	pH	TDS	TSS	COND.
October 6	11.2	7.9	1057	28	1915
November 2	22.1	8.1	1112	14	1700
December 17	15	8.1	1012	11	4140
January 4	11	7.6	2236	16	3960
February 18	15	7.3	9920	20	16,900

The Deer Creek Mine discharge is summarized in the following table.

MONTH	DISCHARGE (GPD)	MONTH	DISCHARGE (GPD)
January 1993	1,336,320	August 1993	1,393,920
February 1993	1,221,120	September 1993	1,411,200
March 1993	1,569,600	October 1993	1,245,600
April 1993	1,166,400	November 1993	600,480
May 1993	1,074,240	December 1993	218,880
June 1993	1,118,880	January 1994	*28,800
July 1993	1,411,200	February 1994	*28,800

* Indicates Gallons Per Day flow calculated based on instantaneous flow rate.

INSPECTION REPORT

(Continuation sheet)

Page 5 of 6

PERMIT NUMBER: ACT/015/018

DATE OF INSPECTION: March 31, 1994

5. **EXPLOSIVES**

The explosives storage area was examined. All storage units were locked and inaccessible. The area where these are stored are depicted on Plate 5-1 in the permit. The operator was requested to add this area to plate 4-1: Disturbed Area Boundary Map.

7. **COAL MINE WASTE/REFUSE PILES/IMPOUNDMENTS**

Excess waste rock from the mine and the crusher facility is hauled to the permitted waste rock disposal area located in Huntington Canyon. No trucks were observed hauling material during the inspection.

The 4th quarter engineering inspection of the refuse pile was conducted on December 28, 1993. The corresponding report was examined. Two samples collected from the most recent lift in November 1993, had saturated paste electrical conductivities that were elevated. According to Table 2 of the Division's Guidelines for Topsoil and Overburden, this high EC produces a poor rating for soil and overburden.

8. **NONCOAL WASTE**

Noncoal waste is temporarily stored in a concrete bin on the north side of the main pad prior to disposal. Some waste was observed above the bin. The operator was told to consolidate this waste. Additionally, cans, bottles and other debris were observed throughout the mine site. This is the result of trash which has been accumulating in the snow pack throughout the winter. As the snow melts this litter becomes evident. The operator was requested to pick up trash and litter throughout the mine site.

12. **BACKFILLING AND GRADING**

No backfilling or grading work was occurring.

14. **SUBSIDENCE CONTROL**

The 1993 subsidence monitoring map was examined in the field office. This map and subsidence report will be submitted to the Division in April 1994 as part of the 1993 Annual report.

16b. **ROADS: DRAINAGE CONTROL**

The drainage ditches and associated sediment control structures along the conveyor access road, the mine road and the waste rock site road were in good repair.

18. **SUPPORT FACILITIES/UTILITY INSTALLATIONS**

The erosion repair work along the C2 portion of the conveyor line done last fall was stable. Erosion control matting was installed on the out slopes of the road where the storm had impacted the culvert. The ditches along the west side of the conveyor were in good repair.

INSPECTION REPORT

(Continuation sheet)

Page 6 of 6

PERMIT NUMBER: ACT/015/018

DATE OF INSPECTION: March 31, 1994

21. BONDING & INSURANCE

The Deer Creek Mine has a bond for \$2,000,000 signed by the previous Division director Dianne Nielson on September 17, 1992. This bond was revised on February 9, 1994 increasing the total acreage from 78.69 to 93.29 as a result of NOV N93-7-3-1. An attached rider states that if the cooperative agreement between the State of Utah and the Office of Surface Mining is terminated then the bond would become payable to the U.S. Department of the Interior.

Insurance policy number X0296A1A94, from the Associated Electric and Gas Insurance Services Ltd. Certificate number 28180 was issued from February 24, 1994 through February 24, 1995, and covers \$1,000,000 general and \$35,000,000 aggregate.

Copy of this Report:

Mailed to: Bernie Freeman (OSM), Karl Housekeeper (PacifiCorp)

Given to: Joe Helfrich (DOGM)

Inspector's Signature: _____

Ken Wyatt

#7 Date: April 19, 1994