

0017



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

INSPECTION REPORT

*pgl
Jan*

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Partial: ___ Complete: X Exploration: ___
Inspection Date & Time: 5/26/93 8:15 AM TO 4:00 PM
Date of Last Inspection: 4/6/93

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
Company Official(s): Karl Housekeeper (permittee) and John Christensen (operator)
Federal Official(s): None
Weather Conditions: Partly cloudy and warm, 70s
Existing Acreage: Permitted-14,668 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/ENE
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 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 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 checked="" type="checkbox"/>	<input 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 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 type="checkbox"/>	<input type="checkbox"/>
19. AVS CHECK (4th Quarter-April, May, June) <u>May 26, 1993 (date)</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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"/>



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(Continuation sheet)

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PERMIT NUMBER: ACT/015/018

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(Comments are Numbered to Correspond with Topics Listed Above)

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

Permits were available and in order. Documents examined included:

The mine permit was issued to UP&L on February 8, 1991. The permit was re-issued to J. Brett Harvey of Pacificorp Electric Operations on February 15, 1991, by Dianne Nielson of the Division.

A permit revision for an incidental boundary change (IBC) for leases U-47977 and SL-050862 was signed by Dianne Nielson on October 28, 1992. A letter from Lowell Braxton of the Division dated January 8, 1993, indicated that Pacificorp had met stipulation #2 of the IBC.

A liability insurance policy for \$35 million from Aegis Insurance Services Ltd. is effective from February 24, 1993, through February 23, 1994.

A reclamation agreement between the Division and PEO was signed on December 13, 1990. An updated reclamation bond for \$2,000,000.00 was dated September 17, 1992.

A State of Utah, Division of Water Quality UPDES permit # UT-0023604 was issued effective December 1, 1992 and expires November 30, 1997.

2. **SIGNS AND MARKERS**

The mine identification sign is current and contains the appropriate information. Perimeter markers, topsoil signs and stream buffer zone signs were in place as required. The mine identification sign for the waste rock area had been repaired. The old sign was not secure and would rotate in the wind.

4a. **HYDROLOGIC BALANCE: DIVERSIONS**

The undisturbed diversion inlets at the mine were all clear and unobstructed. Flow (3.72 CFS) was occurring in Deer Creek above the mine. This is the first snowmelt runoff in this area in several years. No flow was observed in Deer Drainage and Elk Canyon. No flows were observed at the waste rock site diversions.

4b. **HYDROLOGIC BALANCE: SEDIMENT PONDS AND IMPOUNDMENTS**

The sediment pond first quarter, 1993, inspection report was conducted on March 30, 1993. The top ice elevation during the inspection was 7225.78 feet. No stability problems were noted. 1.31 acre feet of sediment storage remains available.

The waste rock area sediment pond was inspected on March 26, 1993. The water elevation was noted at an elevation of 6313. The sediment level was reported at 0.0 which leaves .98 acre feet of sediment storage.

4c. **HYDROLOGIC BALANCE: OTHER SEDIMENT CONTROL MEASURES**

The silt fences/catch basins along the access road and conveyor line were in good repair. One area near the sediment pond (IU-10) had accumulations of coal dust beneath the conveyor. This area needs to be vacuumed to remove these fines.

4d. **HYDROLOGIC BALANCE: WATER MONITORING**

Surface and groundwater monitoring results for the first quarter 1993, were examined in the operators's office. These samples were complete with no effluent violations observed. No flows were observed in the undisturbed channels around the mine until late May 1993.

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Water levels were measured in the new wells which were constructed in Cottonwood Canyon as part of the PHC process. These are tabulated below.

WELL ID	DESCRIPTION	DEPTH TO WATER
CCCW-1A	LOWER COTTONWOOD CANYON ALLUVIUM	102.10
CCCW-1S	LOWER COTTONWOOD CANYON - STAR POINT SS	190.40
CCCW-2A	MID COTTONWOOD CANYON - ALLUVIUM	24.01
CCCW-3S-DEEP	UPPER COTTONWOOD CANYON - DEEP STAR POINT SS	72.26
CCCW-3S-SHALLOW	UPPER COTTONWOOD CANYON - SHALLOW STAR POINT SS	601.78
CCCW-3A	UPPER COTTONWOOD CANYON ALLUVIUM	50.72

According to Mr. Houskeeper, the water levels in the alluvial wells have risen by about 2 feet in the last month. This is in response to the spring runoff. Cottonwood Creek was flowing about 7 CFS at the old USGS flume. Water was over topping the flume. Estimates of flow were based on a channel cross section 2 feet wide X 1.5 feet deep and a velocity of 4 feet per second (fps) on the surface. Water levels in the wells completed in the Star Point Sandstone had not changed as these are slower reacting wells due to their depth.

The flume at the lower end of Cottonwood Canyon where water is diverted into the Peacock's pastures was being overtopped (1.1 feet). This flow was estimated at 2.4 CFS.

Deer Creek below the mine was flowing 5.11 CFS or 2293 gallons per minute based on a flume reading .58 feet. Deer Creek above the mine was flowing at 3.72 CFS or 1670 gallons per minute. The difference of these two flume measurements is 623 gallons per minute which is the mine discharge.

4e. **HYDROLOGIC BALANCE: EFFLUENT LIMITATIONS**

The sediment pond was discharging .21 feet on a 90 degree V notch weir. This amounts to 23 gallons per minute. Water quality was good. No discharge was occurring at the waste rock area sediment pond.

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

The waste rock disposal site first quarter inspection was done on March 29, 1993. No problems were noted. Onsite inspection of this facility was done. Trash and debris had been recently picked out of the waste material and was being temporarily stored near the access road to the site. This non-coal waste will be collected and hauled to the landfill with the mine's noncoal waste disposal.

According to the operator, the old sediments from last years pond cleaning had been regraded in with the current waste rock lift. A new lift had recently been leveled.

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8. **NONCOAL WASTE**

Noncoal waste is stored in a concrete bunker on the north end of the mine pad and hauled offsite to the landfill as needed. Waste material was being stored in a controlled manner.

12. **BACKFILLING AND GRADING**

The new concrete material storage docks and the road base material storage pad were all complete. The operator said that they still have some final grading work to complete to provide adequate drainage.

The undisturbed diversion on the first terrace above the mine office and the ROM conveyor bench reclamation are issues that will be resolved in the up coming mid-term review for the Deer Creek Mine. This review is scheduled for the summer 1993.

14. **SUBSIDENCE CONTROL**

The 1992 annual subsidence report was received by the Division on April 5, 1993. This report was examined at the mine office and again in the Division office. According to the report nineteen areas of mining induced subsidence have been identified on East Mountain. The maximum subsidence (28 feet) was observed in area 1 which is the Deer Creek 9th East and Wilberg 1st Right panels. The average subsidence for the 19 areas is 8.96 feet. The minimum is 0. Typical subsidence eliminating the highest and lowest figures is 6 feet.

19. **AVS CHECK**

The permit for the Deer Creek Mine states the resident agent as:

Pacificorp
201 S. Main St.
Suite 2100
Salt Lake City, Utah

This is in agreement with the mine ID sign at the entrance to the Deer Creek Mine and the waste rock site.

21. **BONDING & INSURANCE**

An insurance policy #27804 from Associated Electric and Gas Insurance Services Ltd. is effective from February 24, 1993, through February 23, 1994. This policy was for general liability of 1 million each occurrence and aggregate and excess liability of \$35 million each occurrence and aggregate.

A reclamation agreement between the Division and Pacificorp was signed on December 13, 1990. An updated reclamation bond for \$2,000,000.00 was dated September 17, 1992.

Copy of this Report:

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

Given to: Joe Helfrich (DOGM)

Inspector's Signature: _____

Ken Wyatt

#7 Date: 6/2/93