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ACT/015/017 #6
ACT/015/018 #6
019 #6
RECEIVED 009 #6
MAY 06 1993



May 5, 1993

DIVISION OF
OIL GAS & MINING

Ms. Pamela Grubaugh-Littig
Permit Supervisor
Utah Division of Oil, Gas and Mining
355 West North Temple
Salt Lake City, UT 84180-1203

Re: PacifiCorp, 1992 Annual Hydrologic Reports, Des-Bee-Dove Mine ACT 015/017,
Deer Creek Mine ACT 015/018, Cottonwood/Wilberg Mine ACT 015/019, Trail
Mountain Mine ACT 015/009, Emery County, Utah

Dear Ms. Littig:

Transmitted herewith are 1992 Annual Hydrologic reports for the above referenced operations. Reports included are Hydrologic Monitoring - East Mountain (1 volume, 1 copy) and Trail Mountain (1 volume, 1 copy). If additional copies are required, we will be happy to provide them at your request.

The Trail Mountain Annual report submittal is consistent with the format utilized by Beaver Creek Coal Company. Data collected in 1993 will be submitted using the East Mountain format, i.e. historical water quality and quantity comparisons.

Very truly yours,

Val Payne
Senior Environmental Engineer

CS\sh\1756
Enclosure

cc: J. Blake Webster, without transmittal
Steve Kochevar, " "
Chuck Semborski, " "

Disk: Chuck\h2oannrp.593

*Routed Jeff then file
ACT/015/018 #6*

**DEER CREEK
ACT/015/018
ELK CANYON STORAGE PAD
2ND QUARTER 1993**

INTRODUCTION

The Elk Canyon Storage Pad was modified in 1988 to provide additional storage space for run of mine coal. The fill structure was constructed of underground development waste and coal processing waste. An estimated 24,000 cubic yards of material were used to construct the fill pad.

OPERATION

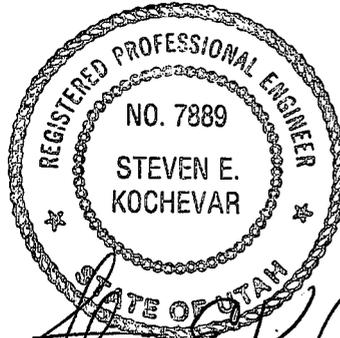
ROM coal was occasionally stored on the pad for short periods of time. No coal was stored on the pad at the time of the inspection.

INSPECTION

During an inspection of the site on June 29, 1993, no tension fractures or other evidence of failure were observed. No evidence of structural weakness or other hazardous conditions were noticed.

CERTIFICATION

I do hereby certify that the Elk Canyon Storage Pad is constructed and maintained as designed and in accordance with the approved plan. I also certify that the facility shows no signs of instability, structural weakness or other hazardous conditions.



Steven E. Kochevar

Steven E. Kochevar
PE #7889

DEER CREEK *fk*
ACT/015/018
WASTE ROCK DISPOSAL SITE
2ND QUARTER 1993

INTRODUCTION

This area for waste rock storage is located approximately 2.5 miles from the mine site in Huntington Canyon, more specifically in Sections 5 and 6, T17S, R8E, SLM. When complete the site will contain approximately 1.3 million cubic yards of waste rock.

OPERATION

Refuse piles have been leveled in lifts according to plan with trash and extraneous material sorted according to the permitted plan.

INSPECTION

Inspection of the facility for structural stability was performed June 29, 1993. Inspection of the operation of the facility is done on a continual basis.

The underdrain was discharging at the time of the inspection less than 1 gpm.

The perimeter berm appears to be stable. Minor erosion down the slopes in a few locations. Minor settlement fractures on outslope of west berm, also inslope at southwest corner berm.

The detention basin and spillway were also inspected for any signs of weakness or instability. The basin was <1% full at the time of inspection. No signs of instability or weakness were observed in or around the basin or spillway.

Refuse had been hauled in and was 90% leveled at the date of this inspection.

DEER CREEK JK
ACT/015/018
ORIGINAL WASTE ROCK DISPOSAL SITE
2ND QUARTER 1993

INTRODUCTION

The original site is located on the northeast end of the material storage yard and now serves as an area for material storage. Its storage capacity is approximately 90,000 cubic yards.

OPERATION

This site is at its capacity. No new waste rock material was added.

INSPECTION

During the inspection of the site on June 29, 1993 no evidence of fractures, slumps or instability were observed. The top berm was intact and functional. No rills or gullies. Good vegetation on the south slope. Excellent vegetation established on the east slope.

No damp areas were observed.

CERTIFICATION

I do hereby certify that the waste rock sites for the Deer Creek Mine are constructed and maintained as designed and in accordance with the approved plan and Utah Coal Mining Rules. I do also certify that there is no evidence of instability, structural weakness, or other hazardous conditions within the sites.



Steven E. Kochevar

Steven E. Kochevar
PE #7889



inspection report

- Partial
- Complete
- Exploration

Inspection Date: June 9, 1993
 Time: 10:00 am pm to 2:00 am pm
 Date of Last Inspection: May 26, 1993

Mine Name: Deer Creek County: Emery Permit Number: Act 1015/018
 Permittee and/or Operator's Name: Pacifi Corp
 Business Address: P.O. Box 1005, Huntington Utah 84528
 Type of Mining Activity: Underground Surface Prep. Plant Other
 State Official(s): Bill Malencik
 Company Official(s): Karl Houskeeper
 Federal Official(s): N/A
 Weather Conditions: Clear/Warm

Existing Acreage: Permitted-14668 Disturbed-56 Regraded- Seeded- Bonded-56
 Increased/Decreased: Permitted- Disturbed- Regraded- Seeded- Bonded-
 Status: Exploration / 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

1. Substantiate the elements on this inspection by checking the appropriate performance standard.
 - a. 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.
 - b. For partial inspections check only the elements evaluated.
2. Document any noncompliance situation by referencing the NOV issued at the appropriate performance standard listed below.
3. Reference any narratives written in conjunction with this inspection at the appropriate performance standard listed below.
4. 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 type="checkbox"/>	<input type="checkbox"/>	<input 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 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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e. EFFLUENT LIMITATIONS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. EXPLOSIVES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. DISPOSAL OF EXCESS SPOIL/FILLS/BENCHES	<input 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 type="checkbox"/>	<input type="checkbox"/>
9. PROTECTION OF FISH, WILDLIFE AND RELATED ENVIRONMENTAL VALUES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. SLIDES AND OTHER DAMAGE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. CONTEMPORANEOUS RECLAMATION	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. BACKFILLING AND GRADING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. REVEGETATION	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. SUBSIDENCE CONTROL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. CESSATION OF OPERATIONS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16. ROADS:				
a. CONSTRUCTION/MAINTENANCE/SURFACING	<input 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 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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20. AIR QUALITY PERMIT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21. BONDING & INSURANCE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

INSPECTION REPORT COMMENTS

Permit No. Act/015/018

Inspection Date 6/9/93

Please number comments to correspond with topics on previous page.

Signs & Markers. Required signs and markers were in place at the mine site and refuse storage area.

Diversions. The road ditch above the mine gate had recently been maintained. Additional riprap was recently installed. It appeared that with the additional riprap the channel shape was flattened. The operator committed to rechecking the field conditions with the designs. No short circuiting was observed.

No runoff was observed in any of the diversions. Deep Creek was flowing below the mine.

Sediment Ponds. The mine pond and waste rock ponds were observed. Runoff in the waste rock pond was estimated at 1' at the greatest depth. Mine water pond was at the discharge level and discharging.

Other Sediment Control. Silt fences and catchments at the mine site had recently been cleaned. Some of the material on one device was temporarily stored adjacent to the silt fence and within the disturbed area. The operator stated the cleanout material will be transported

Copy of report mailed to _____

Copy of report given to _____

Inspector's signature _____ No. _____

WHITE-DOG M YELLOW-OSM PINK-PERMITTEE/OPERATOR GOLDENROD-NOV FILE

INSPECTION REPORT COMMENTS

Permit No. Act 1015/018

Inspection Date 6/9/93

Please number comments to correspond with topics on previous page.

To the waste rock site as soon as the project is completed.
Coal Mine Waste. Observed coal mine waste at the temporary storage site at the mine and at the final disposal site below the mine. Also, the inactive site at the mine. MSHA signs were in place at both permanent sites.

Support Facilities. The operator was working on securing the escapement next to the main fan before undertaking work as approved in a recent amendment.

Copy of report mailed to PC/Karl Houskeeper; OSM/MoPetta; DOGM/Joel Helfrich

Copy of report ^{filed} given to RFO

Inspector's signature Jim J. Malenick No. 26

WHITE - DOGM YELLOW - OSM PINK - PERMITEE/OPERATOR GOLDENROD - NOV FILE

6/18/93

*Route to ~~Lead~~ ^{Ver} ~~App~~ ^{JK}
Then → file ACT/015/018
#6*

DEER CREEK
ACT/015/018
ORIGINAL WASTE ROCK DISPOSAL SITE
3RD QUARTER 1993

INTRODUCTION

The original site is located on the northeast end of the material storage yard and now serves as an area for material storage. Its storage capacity is approximately 90,000 cubic yards.

OPERATION

This site is at its capacity. No new waste rock material was added.

INSPECTION

During the inspection of the site on September 29, 1993 no evidence of fractures, slumps or instability were observed. The top berm was intact and functional. No rills or gullies. Good vegetation on the south slope. Excellent vegetation established on the east slope.

No damp areas were observed.

DEER CREEK
ACT/015/018
WASTE ROCK DISPOSAL SITE
3RD QUARTER 1993

INTRODUCTION

This area for waste rock storage is located approximately 2.5 miles from the mine site in Huntington Canyon, more specifically in Sections 5 and 6, T17S, R8E, SLM. When complete the site will contain approximately 1.3 million cubic yards of waste rock.

OPERATION

Refuse piles have been leveled in lifts according to plan with trash and extraneous material sorted according to the permitted plan.

INSPECTION

Inspection of the facility for structural stability was performed September 29, 1993. Inspection of the operation of the facility is done on a continual basis.

The underdrain was discharging at the time of the inspection less than 1 gpm.

The perimeter berm appears to be stable. Minor erosion down the slopes in a few locations. Minor settlement fractures on outslope of west berm, also inslope at southwest corner berm.

The detention basin and spillway were also inspected for any signs of weakness or instability. The basin was dry at the time of inspection. No signs of instability or weakness were observed in or around the basin or spillway.

Refuse had been hauled in and covered about 50% of active site at the date of this inspection.

CERTIFICATION

I do hereby certify that the waste rock sites for the Deer Creek Mine are constructed and maintained as designed and in accordance with the approved plan and Utah Coal Mining Rules. I do also certify that there is no evidence of instability, structural weakness, or other hazardous conditions within the sites.



Steven E. Kochevar

Steven E. Kochevar
PE #7889

DEER CREEK
ACT/015/018
ELK CANYON STORAGE PAD
3RD QUARTER 1993

INTRODUCTION

The Elk Canyon Storage Pad was modified in 1988 to provide additional storage space for run of mine coal. The fill structure was constructed of underground development waste and coal processing waste. An estimated 24,000 cubic yards of material were used to construct the fill pad.

OPERATION

ROM coal was occasionally stored on the pad for short periods of time. About 50 tons of coal was being stored on the pad at the time of this inspection.

INSPECTION

During an inspection of the site on September 29, 1993, no tension fractures or other evidence of failure were observed. No evidence of structural weakness or other hazardous conditions were noticed.

CERTIFICATION

I do hereby certify that the Elk Canyon Storage Pad is constructed and maintained as designed and in accordance with the approved plan. I also certify that the facility shows no signs of instability, structural weakness or other hazardous conditions.



Steven E. Kochevar
PE #7889

015/018 #6

**ANNUAL ENGINEERING REPORT
DEER CREEK SEDIMENT POND
1993**

This report is submitted as required by Federal and State regulations:

**R645-301-514.300
30 CFR 77.216-4
30 CFR 817.49**

Design data:

Top of Dam Elevation	7235.00
Toe of Dam Elevation	7217.14
Spillway Crest Elevation	7232.03
Total Storage Capacity	12.51 ac.ft.
Sediment Storage Capacity	3.11 ac.ft.
Control Points	1-7235.54
	2-7235.50
	3-7235.64
	4-7235.98

Operational data:

	<u>ACCUMULATED SEDIMENT</u>	<u>WATER ELEVATION</u>	<u>CONTROL POINT ELEVATION</u>
1st Quarter 3-30-93	Frozen	7225.78	No Change
2nd Quarter 6-22-93	0.57	7222.88	No Change
3rd Quarter 9-29-93	0.60	7222.98	No Change
4th Quarter 12-21-93	Frozen	7220.48	No Change

Inspection:

Visual inspections were made during each quarter, no stability problems or other concerns were found.

**ANNUAL ENGINEERING REPORT
DEER CREEK WASTE ROCK DETENTION POND
1993**

This report is submitted as required by Federal and State regulations:

**R645-301-514.300
30 CFR 77.216-4
30 CFR 817.49**

Design data:

Top of Dam Elevation	6319.00
Toe of Dam Elevation	6311.20
Spillway Crest Elevation	6317.30

Total Storage Capacity	4.64 ac.ft.
Sediment Storage Capacity	2.90 ac.ft.

Control Points	1. 6313.70
	2. 6326.10
	3. 6326.80

Operational data:

	<u>ACCUMULATED SEDIMENT</u>	<u>WATER ELEVATION</u>	<u>CONTROL POINT ELEVATION</u>
1st Quarter 3-30-93	0.0	6313.00	No Change
2nd Quarter 6-22-93	0.0	6311.40	No Change
3rd Quarter 9-29-93	0.0	Dry	No Change
4th Quarter 12-21-93	0.0	Dry	No Change

Inspection:

Visual inspections were made during each quarter, no stability problems or other concerns were found.