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State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

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October 8, 1993

Mr. Val Payne  
Senior Environmental Engineer  
PacifiCorp  
P.O. Box 1005  
Huntington, Utah 84523

Re: Initial Review Response--Rejected, PacifiCorp, Deer Creek Mine,  
ACT/015/018-93H, Folder #2, Emery County, Utah

Dear Mr. Payne:

The Division is in receipt of the proposed amendment, Sediment Containment Box, which has been assigned the permit change number ACT/015/018-93H. The application is incomplete and we are unable to begin review of your proposal for the following reasons:

No design information was provided for the diversion structure.  
No designs were provided for the outlet from this box to the sediment pond.  
Drawing #3 did not include baffles, as stated on revised page 3-22.

This completeness response is an initial review. There may be more information that may need to be submitted. The Division is therefore returning this amendment. Please resubmit the complete application.

Sincerely,

A large, stylized handwritten signature in black ink, appearing to read 'Pamela Grubaugh-Littig'.  
Pamela Grubaugh-Littig  
Permit Supervisor



92H



September 22, 1993

SEP 27 1993

Ms. Pamela Grubaugh-Littig  
Permit Supervisor  
Division of Oil, Gas and Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, UT 84180-1203

**RE: SEDIMENT CONTAINMENT BOX AMENDMENT, PACIFICORP, DEER CREEK  
MINE, ACT/015/018, EMERY COUNTY, UTAH**

Dear Pamela,

As the Division is aware, the cleaning of the Deer Creek Sediment Pond is very time consuming, costly and difficult. In order to reduce the frequency of pond cleaning, I enclose the following amendment proposal for the construction of a "Sediment Containment Box" in the sediment pond area.

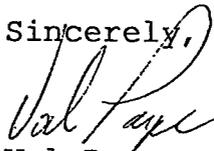
Details of the sediment containment box are found in revised page 3-22 and added pages 3-22.2 and 3-22.3. Drawings 1, 2 and 3 are enclosed for detail information only. Upon approval and construction completion, the surface yard map (DS202E, Packet 3-9) will be updated and submitted.

Upon approval please:

1. Replace page 3-22 of the permit with page 3-22 (Revised 9/22/93). Add pages 3-22.2 and 3-22.3 (Added 9/22/93) to the permit. These pages explain the design, location, construction, operation and cleaning of the sediment containment box.
2. Replace the following pages of the permit: 4-10 with page 4-10 (Revised 9/22/93); 4-59.2.1 with 4-59.2.1 (Revised 9/22/93); 4-65 with 4-65 (Revised 9/22/93). These pages update the Reclamation Bond costs.
3. Replace drawing DS202E, Packet 3-9, with the newly revised drawing numbered the same. (This drawing will be submitted upon amendment approval)

Your immediate consideration of this request is greatly appreciated. If you have questions, please call Guy Davis or me at 653-2312.

Sincerely,

A handwritten signature in cursive script that reads "Val Payne". The signature is written in dark ink and is positioned above the typed name.

Val Payne  
Sr. Env. Engineer

cc: Steve Kochevar (w/o drawings)

slopes. Fill slopes are 2.5h:1V. The rip-rapped upstream dam slope is constructed at 2.5H:1V. The downstream dam slope is 2H:1V.

The outlet works for the sediment pond are constructed of 24" CSP, screened to prevent clogging and capped with a skimmer ring.

Slopes constructed on fill have been revegetated to minimize erosion. (Fall 1988)

Maintenance of the sediment pond includes quarterly inspections and monthly discharge monitoring. A copy of the inspection reports is submitted annually to the Division by a registered professional engineer. A copy of the discharge report is submitted monthly to the Division. The pond will be dredged of sediment when sediment volume is 60% of design capacity.

The cleaning of the sediment pond is very time consuming, costly and difficult. To prolong the times between cleaning the sediment from the pond, a "Sediment Containment Box" has been installed at the west bank of the pond. The Sediment Containment Box will reduce the cleaning of the pond to an estimated once every 5 to 8 years. The Sediment Containment Box will be cleaned 2 to 3 times a year or as needed.

The inside dimensions of the box are 35 ft. long, 15 ft. wide and 8 ft. high. The volume is 155 cubic yards (.1 acre ft.) and will be cleaned at 80% capacity. The walls are reinforced concrete, 1 ft. thick. A diversion dam is constructed downstream of the culvert outlet near the Weigh Bin Building. The diversion dam will be of 1 ft. reinforced concrete and

consist of two slide gates. One gate will discharge into the 18 inch CMP culvert leading to the Sediment Containment Box and the other to the grouted channel. In the event that the 18 inch culvert cannot handle the storm event flow, the water would simply overflow the diversion and enter the sediment pond.

Access to the Sediment Containment Box is provided for removal of the accumulated sediment.

Under normal operation, the disturbed water will enter the diversion dam and flow through the 18 inch by-pass into the box. A series of baffles are installed in the box to increase the effective settling distance. The water will then exit the box into the existing sediment pond via a cement trough. When the box fills to 80% capacity, the gates at the diversion dam will be switched, directing the flow directly to the pond. The box will be decanted into the pond and the sediment will be removed and hauled to the Deer Creek Waste Rock Facility for disposal. Once the box is cleaned the gates at the diversion dam will be returned to the normal operating position.

The sediment containment box will be removed in conjunction with reclamation of the sediment pond.

Reclamation of the pond will complete the proposed Deer Creek reclamation process. The pond will be allowed to dry followed by backfilling and grading. Graded contours will be compatible with the natural surroundings. Revegetation will be performed as outlined in Reclamation Plan.

Mine Facilities Pad - An earthen fill structure is utilized for material storage and personnel facilities. The fill

occupies approximately 8 1/2 acres. Construction material for the fill was obtained from the south slope of the Deer Creek drainage and from the sediment pond excavation.

Approximately 50% of the fill structure is asphalt or concrete surfaced providing access to mine facilities and

The equipment used is listed below:

	<u>Hourly Rate</u>
988B Loader, 375 HP, 7 yd. bucket	\$106.88
769C Off-highway Truck, 35-Ton	74.62
825C Compactor, 300 HP	88.85
621B Scrapers, 330 HP, 14 cy	84.59
D8G Dozer w/straight blade	63.00
235 Excavator, 195 HP, std. bucket	107.84
D6D Dozer w/angle blade	46.69
John Deere 500 Backhoe	22.30
Flat-Bed Truck, diesel, mediu, 250 HP	16.24
Dump Truck, 50 Ton, 773	84.39
Crane 50T, diesel, hydraulic, Trk MTD	71.90
Air Drill, Track, IR DM25	90.09
Dump Truck, 10 yard	30.00

The labor rates used are as follows:

Supervisor	\$36.70 per hour
Operator	\$34.20 per hour
Laborer	\$26.05 per hour
Truck Driver	\$27.05 per hour
Laborer (Wrecking)	\$28.85 per hour

Stability:

Backfilled slopes will be constructed not to exceed 2:1. material used will be 3 foot diameter and less. The material will be placed in 18 inch lifts and compacted with a 825C Compactor with a dozer blade.

No ground water is located in any of the backfill

<u>ITEM #</u>	<u>DESCRIPTION</u>	<u>EQUIPMENT MANPOWER</u>	<u>QUANTITIES</u>	<u>TOTAL COST</u>	<u>CONSTR. DAYS</u>	<u>COMMENTS</u>
1-AI	Stand-By Fan	Crane Backhoe Loader Dump Truck Breaker Compressor	1 Job	\$ 10,310	7 Days	\$1,473/day
1-AJ	Removal of Sediment Containment Box	235 Backhoe 500 Backhoe D. Truck (10 yd) Flatbed Truck 2 Operators 2 Laborers	1 Job	\$ 9,781	5 Days	\$1,956/day
<b>TOTALS.....</b>				<b>\$405,213</b>	<b>205 Days</b>	

<u>ITEM #</u>	<u>DESCRIPTION</u>	<u>EQUIPMENT MANPOWER</u>	<u>QUANTITIES</u>	<u>TOTAL COST</u>	<u>CONSTR. DAYS</u>	<u>COMMENTS</u>
4-B	Sediment Traps @ Tipple	500 Backhoe Dump Truck 2 Man Crew	1 Job	\$ 1,355	1 Day	\$1,355/day
	Add Material: Riprap 11.00 x 920 Gravel Liner 9.00 x 157			<u>\$ 11,533</u>		
	Total.....			\$ 27,851		
15-A	Overland Conveyor Belt Revegetation (includes material)			\$ 19,877	5 Days	
16-A	Waste Rock Disposal Site (Reclamation Costs From Volume 10)			\$ 413,664	201 Days	
	SUBTOTAL.....			\$1,469,970		
	MOBILIZATION.....			\$ 10,000		
	10% CONTINGENCY.....			\$ 146,997		
	4.3% RECLAMATION MANAGEMENT.....			\$ <u>63,209</u>		
	TOTAL CONTRUCTION COST*.....			<u>\$1,690,176</u>		

\*Total reclamation and bonding costs will be adjusted, during major permitting actions, to include PAP amendments for which the individual reclamation costs are less than 5% of the current bond.

4-65  
Revised 9/22/9: