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

1594 West North Temple, Suite 1210

P.O. Box 145801

Salt Lake City, Utah 84114-5801

(801) 538-5340

(801) 359-3940 (Fax)

Michael O. Leavitt
Governor

Ted Stewart
Executive Director

James W. Carter
Division Director

February 13, 1997

Chuck Semborski
PacifiCorp
P.O. Box 310
Huntington, Utah 84528

RE: Follow-up, Cottonwood Mine Waste Rock Site, Silt Fence Removal, PacifiCorp, Cottonwood Mine, ACT/015/019-97A, Folder #3, Emery County, Utah

Dear Mr. Semborski:

This has reference to amendment application, ACT/015/019-97A, approved effective January 30, 1997.

You provided follow-up documents with your letter of February 7, 1997. The documents included unhighlighted updated MRP text, namely pages 2-6, 207,2-7.1/Chapter 2; page 3-1/Chapter 3.

I have received and approved the foregoing pages and have stamped all copies.. A copy is enclosed for your records for incorporation into your MRP. Further, a copy has also been sent to required cooperating agencies.

When all the silt fences are removed, please submit an updated drawing CM-10826-WB.

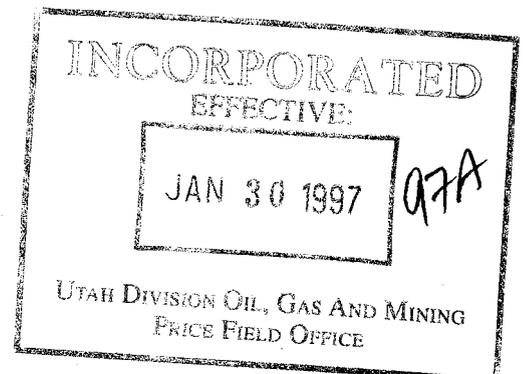
Sincerely,

A handwritten signature in black ink, appearing to read 'Wm. J. Malencik'.

Wm. J. Malencik
Reclamation Specialist

sd
enclosures

cc: Ranvir Singh, OSM, Denver
Richard Manus, BLM, Price
Janette Kaiser, USFS, Price
Mark Page, Water Rights, Price, w/o enc
Dave Ariotti, DEQ, Price, w/o enc
Bill Bates, DWR, Price, w/o enc
Joe Helfrich, DOGM, SLC





February 7, 1997

Utah Coal Regulatory Program
Division of Oil, Gas and Mining
451 East 400 North
P.O. Box 156
Price, Utah 84501

Attention: Mr. Bill Malencik

**Re: FOLLOWUP: COTTONWOOD MINE WASTE ROCK SITE, SILT
FENCE REMOVAL, PACIFICORP, ACT/O15/019, EMERY COUNTY,
UTAH. #97-A, FOLDER 3.**

PacifiCorp, by and through its wholly-owned subsidiary, Energy West Mining Company ("Energy West") as mine operator, hereby submit the unshaded text for the Cottonwood Permit for the above amendment.

The following pages of the permit that were submitted with highlighted text are Pages 2-6, 2-7, 2-7.1, chapter 2, and Page 3-1, chapter 3, Waste Rock Site Volume. These pages are being resubmitted without highlighting of the text. A copy of the approved pages will need to be sent to PacifiCorp for the company permit.

Please find attached seven copies each of the un-highlighted page changes.

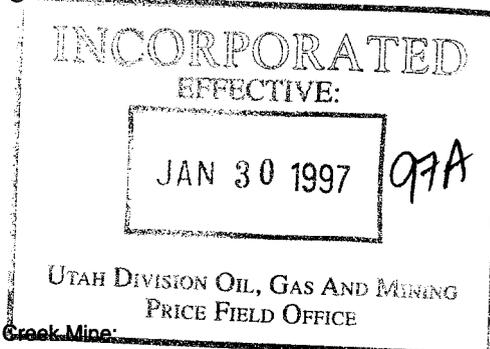
We are reminded that the drawing CM-10826-WB, will need to be submitted, but will not do so until the silt fence removal and final regrading of the road have been accomplished. This work will not take place until the snow melts and the natural ground has time to dry out. Notification of work completion will be made to your department when field inspection varifies accuracy of the map.

Thank you again for all your help and assistance in completing this amendment, we appreciate your expertise and expedient manner of handling.

Sincerely,

A handwritten signature in black ink, appearing to read 'Richard Northrup', is written over the printed name.

Richard Northrup
Env. Eng.



Huntington Office:
(801) 687-9821
Fax (801) 687-2695
Purchasing Fax (801) 687-9092

Deer Creek Mine:
(801) 381-2317
Fax (801) 381-2285

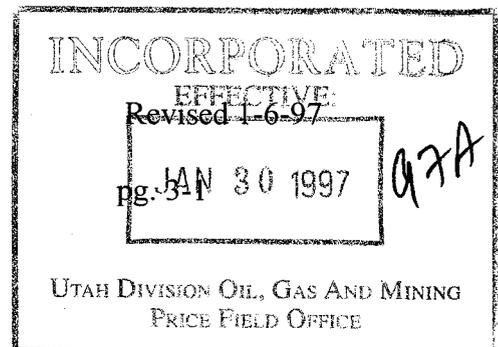
Cottonwood Mine:
(801) 748-2319
Fax (801) 748-2380

CHAPTER III RECLAMATION PLAN

Section I General

The Cottonwood/Wilberg Waste Rock Storage Facility consists of 16.9 acres of disturbed land to be used for disposal of underground development waste. An access road 1,435 feet long will be constructed in conjunction with the site and will involve 5 acres of disturbed land. The site is located on public lands managed by the U.S. Department of the Interior, Bureau of Land Management and its principal use is wildlife habitat and livestock grazing. When the facility is completed, reclamation will return the area to these same uses.

Construction of the facility will commence as soon as the permit is issued. Sediment control measures will be put in place to minimize the effects of the initial construction. Straw bales and silt fences will be erected in the natural drainages to treat any runoff during the initial construction period. Interim revegetation will be used on the bare slopes of the soil of the stockpiles and along the roadway to stabilize and prevent erosion. The topsoil stockpiles will be marked as such. Drainage structures will be constructed and maintained to ensure that they are in good repair and capable of handling the design flow rates. Silt fences or other approved methods to minimize and control runoff from precipitation will be employed along the soil stockpiles outside slopes. These silt fences will also be monitored and repaired as needed to ensure they are in good



The silt fences along the toe of the road fill sections or in the roadside ditches will be cleaned of sediment accumulation by backhoe or hand methods. This material will be either used to backfill rills and gullies or disposed in the waste rock site.

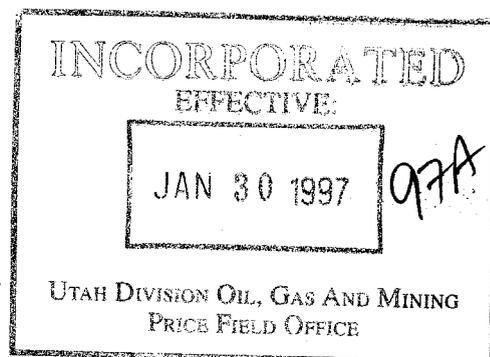
2. Cottonwood/Wilberg Waste Rock Storage Facility

A. General

The drainage of the waste rock storage facility site is confined to a single ephemeral stream at the bottom of a small valley. There will be 15.3 acres of undisturbed land which normally drain through the valley which will be diverted around the waste pile. This undisturbed runoff and the runoff from 16.0 acres of disturbed land will be diverted into a sediment pond where it will be retained to remove suspended solids and then released. Alternative sediment control areas (ASCA) on the outside slopes of the soil stock piles consisting of 0.9 acres will be treated through use of silt fences, strawbales and/or vegetation cover. (Area 1D, Map 4-2.)

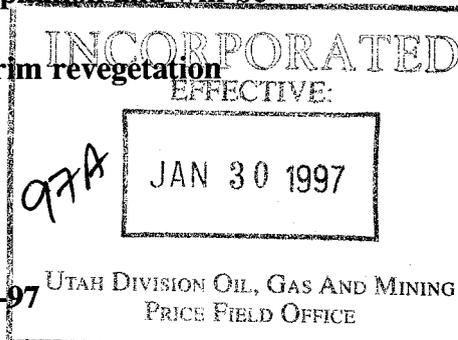
B. Initial Construction

The initial construction of the facility will include the construction of the sediment pond and stripping and stockpiling of the topsoil and subsoil and construction of the initial diversion ditch on the west side of the valley. This diversion ditch is designed to convey the runoff from a 100 year, 6 hour storm event in a V-ditch with a 2% channel slope. This gentle slope will keep the velocity below 5 feet per second



to minimize erosion. As the waste material pile grows and encroaches upon the Initial diversion ditch, the ditch will be reconstructed at the toe of the waste pile to the same specifications as the Initial ditch. Interim control of drainage on the surface of the waste pile, and from a small area immediately adjacent and east of the pile, will be achieved by grading the material, which is placed in the site, so that the active surface of the pile will slope in a southwesterly direction. Runoff from the surface of the pile will discharge in a controlled manner into ditch DA and then to the sediment pond as shown on Drawing CM-10877-WB, Map Packet 4-14. Should water accumulate in depressions on the surface of the waste material, to a level which may affect the stability of the waste pile, this water will be pumped to the sediment pond. When the active surface of the refuse pile reaches an elevation of approximately 6795 feet, drainage control will be as the following describes. The western diversion ditch, labeled DA on Map 4-5, will drain the upland undisturbed areas, the top of the waste pile, the west slope of the waste pile and the top and inside slope of topsoil pile. The eastern diversion ditch (DB) will drain the east slope of the waste pile and top and inside slope of the subsoil stockpile. Total runoff to be collected into the sediment pond is 2.17 acre feet for the 10 year, 24 hour storm event. The estimated annual sediment production for the site is 1.65 acre feet. The actual design of the sediment pond will provide 4.58 acre feet of storage so that there is 2.41 acre feet of sediment storage available. The spillway for the sediment pond will safely pass the runoff from the 25 year, 6 hour storm event with the required one foot freeboard.

The outside slopes of the two soil stockpiles will have silt fences constructed at their bases or other methods to minimize and treat the runoff from precipitation and will be designated as alternate sediment control area, Map 1D, Map 4-2. Interim revegetation



will be accomplished as soon as practical after construction to stabilize the slopes

Monitoring of these drainage controls will be on a regular basis and maintenance will be scheduled as needed to ensure that they operate as designed. The ditches and silt fences will be cleaned, repaired and reshaped with a backhoe or hand methods as appropriate.

2-7.1
Revised 1-6-97

