



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

Michael O. Leavitt  
Governor  
Ted Stewart  
Executive Director  
James W. Carter  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340  
801-359-3940 (Fax)  
801-538-5319 (TDD)

September 16, 1994

*Amendment file*

TO: Daron Haddock, Permit Supervisor

FROM: Henry Sauer, Senior Reclamation Soils Specialist *HS*

RE: DRAFT REVIEW Overland Connection Conveyor,  
Cottonwood/Wilberg Mine, PacifiCorp,  
ACT/015/019-94G, Emery County, Utah

**SYNOPSIS**

The permittee has submitted (Received July 27, 1994) a proposal to construct an overland conveyor and two portals in the vicinity of Cottonwood Fan Portal portion of the Cottonwood/Wilberg Mine Permit Area. The overland conveyor will extend across the county road in Cottonwood Canyon to the Trail Mountain Surface Facilities.

The proposal has been reviewed and found to be incomplete and technically inadequate. Prior to approval the permittee must adequately address the issues enumerated below.

This writer recommends that Amendment # ACT/015/019-94G be denied.

**ANALYSIS**

Rule Citation: R645-301-116.100. & R645-301-521.141.

Each permit application will state the anticipated or actual starting and termination date of each phase of the coal mining and reclamation operation and the anticipated number of acres of land to be affected during each phase of mining over the life of the mine.

Mine maps and permit area maps must clearly indicate the boundaries of all areas proposed to be affected over the estimated total life of the coal mining and reclamation operations, with a description of size, sequence and timing of the mining of subareas for which it is anticipated that additional permits will be sought; the coal mining and reclamation operations to be conducted, the lands to be affected throughout the operation, and any change in a facility or feature to be caused by the proposed operations.



*Discussion*

The permittee has not provided a disturbed area boundary map. The map must include the areas which are anticipated to be disturbed during construction, operations and reclamation.

*Rule Citation:* R645-301-222.400.

Present and potential productivity of existing soils.

*Discussion*

The permittee must provide present and potential productivity statements for the soils identified in the Order I Soil Survey report (Nyenhuis Feb, 1993).

*Rule Citation:*R645-301-231.400.

Narrative that describes the construction, modification, use and maintenance of topsoil handling and storage areas.

*Discussion*

The permittee has proposed the removal of subsoil material from the Cottonwood Fan Portal (CFP) Subsoil Pile and underlying lithologic material which will be encountered during portal excavation operations. The material, as proposed, will be used as a plant growth medium for the reclamation of the CFP. The material which remains within the CFP Subsoil Pile will then be use as the plant growth medium for the reclamation of the conveyor and portal area.

The permittee must submit mass balance calculations and material handling plans which demonstrate that ample quantities of material exists to attain the aforementioned soil handling proposal and reclamation of the CFP and the disturbance created by Overland Conveyor and associated portals.

*Rule Citation:* 232. Topsoil and Subsoil Removal.

232.100. All topsoil will be removed as a separate layer from the area to be disturbed, and segregated.

*Discussion*

The topsoil/subsoil/lithologic removal plan as described in the soil survey report greatly differs from that which is described and depicted in the design drawings submitted. The permittee must describe the soil/subsoil/lithologic removal plan.

*Rule Citation:*R645-301-232.200.

Where the topsoil is of insufficient quantity or poor quality for sustaining vegetation, the materials approved by the

Division in accordance with R645-301-233.100 will be removed as a separate layer from the area to be disturbed, and segregated.

*Discussion*

In accordance with R645-301-233.100 the permittee must demonstrate the suitability of the lithologic material underlying the CFP Subsoils Pile.

*Rule Citation:* R645-301-234.200. thru 234.230 Stockpiled materials will:

234.210. Be selectively placed on a stable site within the permit area;

234.220. Be protected from contaminants and unnecessary compaction that would interfere with revegetation;

234.230. Be protected from wind and water erosion through prompt establishment and maintenance of an effective, quick growing vegetative cover or through other measures approved by the Division.

*Discussion*

The permittee must demonstrate that the aforementioned regulations will be fulfilled in reference to the stockpiled subsoil material that is to remain and be used as a plant growth medium for the reclamation of the disturbance associated with the overland conveyor and portals.

*Rule Citation:* R645-301-240. Reclamation Plan.

241. General Requirements. Each permit application will include plans for redistribution of soils, use of soil nutrients and amendments and stabilization of soils.

*Discussion*

The permittee must address the aforementioned regulation with regard to the reclamation of the overland conveyor and portals.

**RECOMMENDATION**

Prior to approval of Amendment #ACT/015/019-94G the permittee must adequately address the issues enumerated above.

This writer recommends that Amendment # ACT/015/019-94G be denied.



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September 15, 1994

TO: Daron Haddock, Pamela Grubaugh-Littig

FROM: Jess Kelley, Reclamation Specialist *JK*

RE: Draft Review of Amendment 94G--Construction of Overland Connection Conveyor, Conveyor Belt Portal and Diesel Access Portal, PacifiCorp, Cottonwood/Wilberg Mine, ACT/015/019-94G, Folder #2, Emery County, Utah

SYNOPSIS

The permittee submitted this amendment for Division approval on July 27, 1994. By the amendment, the permittee proposes to build a conveyor to connect the Trail Mountain and Cottonwood Mines, a conveyor portal and diesel access portal for the Cottonwood Mine, and a small road and pad just below the conveyor portal. All of these new facilities are to be located adjacent to the Trail Mountain site.

The connection conveyor will be enclosed in a steel tube built atop support towers and will span the canyon between the Trail Mountain Mine and the Cottonwood Mine. The conveyor will connect the coal handling systems of the two mines and will serve to transport coal from the Trail Mountain Mine to the Cottonwood Mine. The coal will then be loaded into trucks by the Cottonwood Mine's coal handling facilities and hauled to the Hunter Power Plant.

The new conveyor portal will accommodate the connection conveyor. The new diesel access portal will provide access to the Cottonwood Mine from the Trail Mountain Mine. The road and pad will provide access for a crane which will be used in the construction of the conveyor.

ANALYSIS

**Rule Citation**  
R645-301-521.160

**Discussion**

The graphic portion of the amendment submittal consists only of construction drawings which are not suitable for inclusion in the mine plan. The amendment submittal



must include properly-formatted maps and plans which show buildings and surface facilities, disturbed area boundaries, permit area boundaries, topsoil stockpiles, etc..

**Rule Citation**  
R645-301-526

**Discussion**

The amendment submittal must contain a commitment to provide the required photographs of the new surface facilities.

**Rule Citation**  
R645-301-527

**Discussion**

The amendment submittal must classify the crane access road as either 'primary' or 'ancillary.' Also, the submittal must make clear the disposition of the road. The road is labeled 'temporary,' but the submittal does not explain whether it is to be reclaimed immediately after the conveyor is complete or retained until final reclamation.

**Rule Citation**  
R645-301-534

**Discussion**

See R645-301-527.

**Rule Citation**  
R645-301-542.200

**Discussion**

The amendment submittal must contain maps and cross sections which show the anticipated final surface configuration. The cover letter which accompanies the submittal says that reclamation cross sections are found in Appendix III, but no such cross sections exist.

The submittal also needs intelligible volume estimates. The cut-and-fill tables on the construction drawings are very confusing. Those tables include cross sections which are not shown on the corresponding maps and the numbers they present do not match the volume estimate presented in the reclamation cost estimate.

Most of the material stored in the vicinity of the proposed facilities will be used to reclaim the Old Fan Portal site. Since this proposal is thus tied to the reclamation of the Old Fan Portal site, the submittal must show where that material will be stored and contain a demonstration that the volume of stored material is adequate.

**Rule Citation**  
R645-301-542.600

**Discussion**

The crane access road and pad are shown mostly unreclaimed in the cross sections of Drawing L-7. The submittal must provide for a more complete reclamation of this road and pad.

**Rule Citation**  
R645-301-542.800

**Discussion**

Most of the reclamation cost calculations are found in the cover letter which accompanies the amendment submittal. These calculations must be incorporated into the text of the mine plan.

**Rule Citation**  
R645-301-553.130

**Discussion**

The submittal must include a demonstration that the reclaimed slopes will achieve a stability safety factor of at least 1.3.

**FINDING/RECOMMENDATION**

The amendment cannot be approved in its present form. It is recommended that the permittee correct the deficiencies listed in the foregoing discussion.



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June 15, 1995

Art Abbs, Acting Director  
Office of Surface Mining  
Reclamation and Enforcement  
505 Marquette N.W. Suite 1200  
Albuquerque, NM 87102

Re: Construction of Overland Connection Conveyor, Conveyor Belt Portal and Diesel Access Portal, Cottonwood Mine, PacifiCorp, ACT/015/019-94G, Folder #2, Emery County, Utah

Dear Mr. Abbs:

Enclosed please find updated information for the Cottonwood Mine mining and reclamation plan, effective March 23, 1995.

Sincerely,

  
Pamela Grubaugh-Littig  
Permit Supervisor

Enclosure

cc: Chief of Federal Programs, OSM, WRRC  
Mark Bailey, BLM, Price  
Janette Kaiser, Forest Supervisor, Manti La Sal Forest  
Mark Page, Water Rights, Price  
Brent Bradford, DEQ  
Robert Valentine, DWR  
Price Field Office  
Val Payne, PacifiCorp



2-16	Mine Plan Area Vegetation Map	CE-10486-WB
2-17	General Soils Map-Cottonwood/Wilberg Permit Area	CE-10497-WB
2-18	Mine Plan Area Soils Map	CM-10346-WB
2-19	Land Use Map	CM-10597-WB
2-19A	Raptor Nesting Location & Habitat Map	CM-10587-WB
2-20	Mule Deer Habitat	CM-10542-WB
	Elk Habitat	Figure 1

**OPERATION PLAN**

3-1	Life of Mine Plan in Five-Year Increments - Hiawatha Seam	CM-10807-WB
3-2	Life of Mine Plan in Five-Year Increments - Blind Canyon Seam	CM-10808-WB
3-3	Deleted	
3-4	Deleted	
3-5	Deleted	
3-6	Deleted	

**COTTONWOOD FAN PORTAL**

3-7	Access Road Class II	CM-10322-CP
3-8	Access Road Cross-Sections (4 sheets)	CM-10348-CP

**VOLUME 6**

3-9	Deleted	
3-10	South Sediment Basin Details and Cross-Sections North Sediment Basin Details and Cross-Sections	CM-10351-CP CM-10353-CP
3-11	General Layout Plan (R&S) Access Road & Portal Pad Cross-Sections	8029-L2 CM-10550-CP
3-12	Cottonwood Fan Portal Cross-Sections	CM-10335-CP
3-13	Hydrological Map	CM-10501-CP
3-14	Reclamation Map	Figure 1

**COTTONWOOD/WILBERG MINE**

3-15	Typical Road Cross-Sections	7704-C50
3-16	Cottonwood/Wilberg Coal Mine Facilities Map	WS449E
3-17	Sanitation System/Sewer Lines (R&S)	7704-PP3-PP6
3-18	Sanitation System/Sewer Lines (R&S)	PP10

**SUPERSEDED**  
EFFECTIVE:  
JUN 19 1995  
Revised 3/20/92  
978  
UTAH DIVISION OIL, GAS AND MINES

### Miller Canyon Intake Portals

The Miller Canyon intake portals were developed in October of 1981. This facility consists of three (3) portals (8 ft. x 20 ft.) on 100 ft. centers. The portals were used for intake purposes until the Wilberg mine fire in December 1984. At that time they were temporarily sealed. The portals were subsequently sealed permanently in 1987.

The seal in the east portal is provided with a water monitoring pipe. Intermittent small quantity discharges occur at this point. The discharges are monitored in accordance with stipulations of NPDES UT-0022896-04.

### Cottonwood Fan Portal

In addition to the intake breakouts in Channel Canyon, which is immediately south of Miller Canyon, a return breakout from the Hiawatha Seam may be necessary in Cottonwood Canyon.

No coal will be produced through the Cottonwood Canyon return portal. This portal site will be used solely to accommodate a mine fan and its ancillary equipment.

Mining studies have shown that increase ventilation capacity may be required in the Cottonwood Mine due to the increasing size of the mine and the requirements for more

**SUPERSEDED**  
EFFECTIVE:

JUN 19 1995

946  
UTAH DIVISION OIL, GAS AND MINING

Revised 8/29/89  
3-20.1

RECLAMATION COST (UMC 784.13)

RECLAMATION COST SUMMARY

<u>ITEM</u>	<u>ACTIVITY</u>	<u>CONSTRUCTION DAYS</u>	<u>COST</u>
1A-1Q	Surface Facilities Removal	106	399,692
2A,2B	Portal Sealing	74	77,736
3A-3L	Backfill and Grading	78.2	288,015
4A,5A	Rip-Rap Drainage Channels	12.5	70,974
6A,6B	Temporary Sedimentation Control Facility	4	3,169
7A-7D	Soil Sampling & Seedbed Preparation	27	17,608
8A-8D	Fertilizing and Mulching	45	38,504
9A-9D	Seeding and Planting	33	115,697
10A-10D	Plant Monitoring Disease & Pest Control	56	14,868
11A	Soil Stabilization - Rills & Gullies	4	3,453
12A	Contingent Seeding and Planting	1	8,847
13A	Revegetation Inventory - Bond Release	9	5,417
14B,14B	Sediment Control - Structure Removal	3,9	5,603
	Mobilization & Demobilization		<u>10,000</u>

TOTAL

1,057,583

**SUPERSEDED**  
EFFECTIVE:

3/19/95

946  
UTAH DIVISION OIL, GAS AND MINING

Revised 3/1/83  
4-30 -

015/019

BOND AMOUNT (UMC-800.14)

The Means Historical Cost Index is 1.93% compounded for 5 years.

Bonding amount (1993) is \$1,135,146.

Upon approval, and before receiving a renewed permit, Utah Power & Light Company will submit a Surety Bond or provide Self-bonding payable to the State and Federal Regulatory Authority for the above amount.

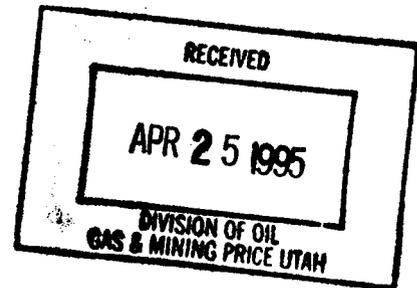
**SUPERSEDED**  
**EFFECTIVE:**  
JUN 19 1995  
946  
UTAH DIVISION OIL, GAS AND MINING

One Utah Center  
201 South Main, Suite 2100  
Salt Lake City, Utah 84140-0021  
(801) 220-2000



April 24, 1995

Utah Coal Regulatory Program  
Division of Oil, Gas and Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203



Attention: Pamela Grubaugh-Littig

**RE: OVERLAND CONVEYOR AMENDMENT APPROVAL CONDITIONS, PACIFICORP,  
COTTONWOOD/WILBERG MINE, ACT/015/019, FOLDER #3, EMERY COUNTY,  
UTAH**

Enclosed please find the following information:

- 1) Cottonwood Fan Portal Surface Facilities Map, Plate 3-16A, updated to show the extent of the Old Johnson Mine.
- 2) Figure 5, revised to reflect 2:1 side slopes on the soil storage piles.

This material is submitted in response to your letter of March 23, 1995.

If you have questions regarding this submission, please call me at 653-2312, ext. 16.

Sincerely,

A handwritten signature in cursive script that reads "Val Payne".

Val Payne  
Sr. Environmental Engineer

cc: M. Moon (w/o enclosure)  
B. Webster " "  
B. Malencik (Price DOGM, enclosure)  
File

# APPLICATION FOR PERMIT CHANGE

Title of Change:

OVERLAND CONVEYOR AMENDMENT  
APPROVAL CONDITIONS

Permit Number: ACT1 015 1019

Mine: COTTONWOOD/WILBERG

Permittee: PACIFICORP

Description, include reason for change and timing required to implement:

SUBMIT INFORMATION IN RESPONSE TO AMENDMENT APPROVAL  
CONDITIONS:

- Yes  No 1. Change in the size of the Permit Area? \_\_\_\_\_ acres  increase  decrease.
- Yes  No 2. Change in the size of the Disturbed Area? \_\_\_\_\_ acres  increase  decrease.
- Yes  No 3. Will permit change include operations outside the Cumulative Hydrologic Impact Area?
- Yes  No 4. Will permit change include operations in hydrologic basins other than currently approved?
- Yes  No 5. Does permit change result from cancellation, reduction or increase of insurance or reclamation bond?
- Yes  No 6. Does permit change require or include public notice publication?
- Yes  No 7. Permit change as a result of a Violation? Violation # \_\_\_\_\_
- Yes  No 8. Permit change as a result of a Division Order? D.O.# \_\_\_\_\_
- Yes  No 9. Permit change as a result of other laws or regulations? Explain: \_\_\_\_\_
- Yes  No 10. Does permit change require or include ownership, control, right-of-entry, or compliance information?
- Yes  No 11. Does the permit change affect the surface landowner or change the post mining land use?
- Yes  No 12. Does permit change require or include collection and reporting of any baseline information?
- Yes  No 13. Could the permit change have any effect on wildlife or vegetation outside the current disturbed area?
- Yes  No 14. Does permit change require or include soil removal, storage or placement?
- Yes  No 15. Does permit change require or include vegetation monitoring, removal or revegetation activities?
- Yes  No 16. Does permit change require or include construction, modification, or removal of surface facilities?
- Yes  No 17. Does permit change require or include water monitoring, sediment or drainage control measures?
- Yes  No 18. Does permit change require or include certified designs, maps, or calculations?
- Yes  No 19. Does permit change require or include underground design or mine sequence and timing?
- Yes  No 20. Does permit change require or include subsidence control or monitoring?
- Yes  No 21. Have reclamation costs for bonding been provided or revised for any change in the reclamation plan?
- Yes  No 22. Is permit change within 100 feet of a public road or perennial stream or 500 feet of an occupied building?
- Yes  No 23. Is this permit change coal exploration activity  inside  outside of the permit area?

RECEIVED  
APR 25 1995  
DIVISION OF OIL  
GAS & MINING UTAH

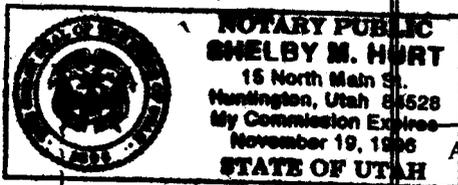
Attach 3 complete copies of proposed permit change as it would be incorporated into the Mining and Reclamation Plan.

I hereby certify that I am a responsible official of the applicant and that the information contained in this application is true and correct to the best of my information and belief in all respects with the laws of Utah in reference to commitments, undertakings, and obligations, herein.

*[Signature]*  
Signed Name - Position - Date  
SE. ENV. ENGINEER APRIL 24, 1995

Received by Oil, Gas & Mining

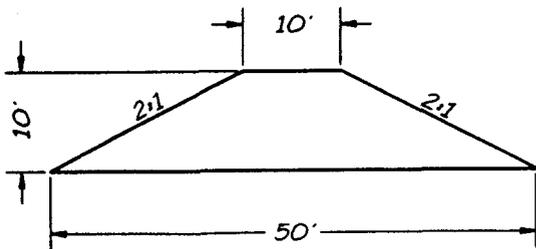
Subscribed and sworn to before me this 24th day of April, 19 95.  
*[Signature]*  
Notary Public  
My Commission Expires: Nov. 19, 19 96  
Attest: STATE OF Utah  
COUNTY OF Emery



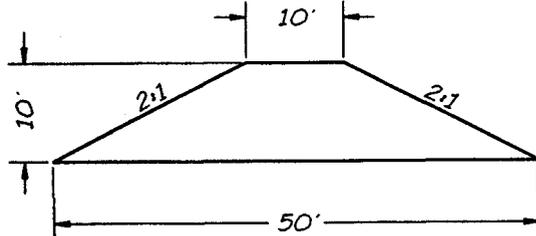
ASSIGNED PERMIT CHANGE NUMBER



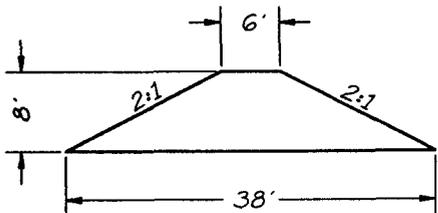
CROSS SECTIONS  
SCALE: 1"=20'



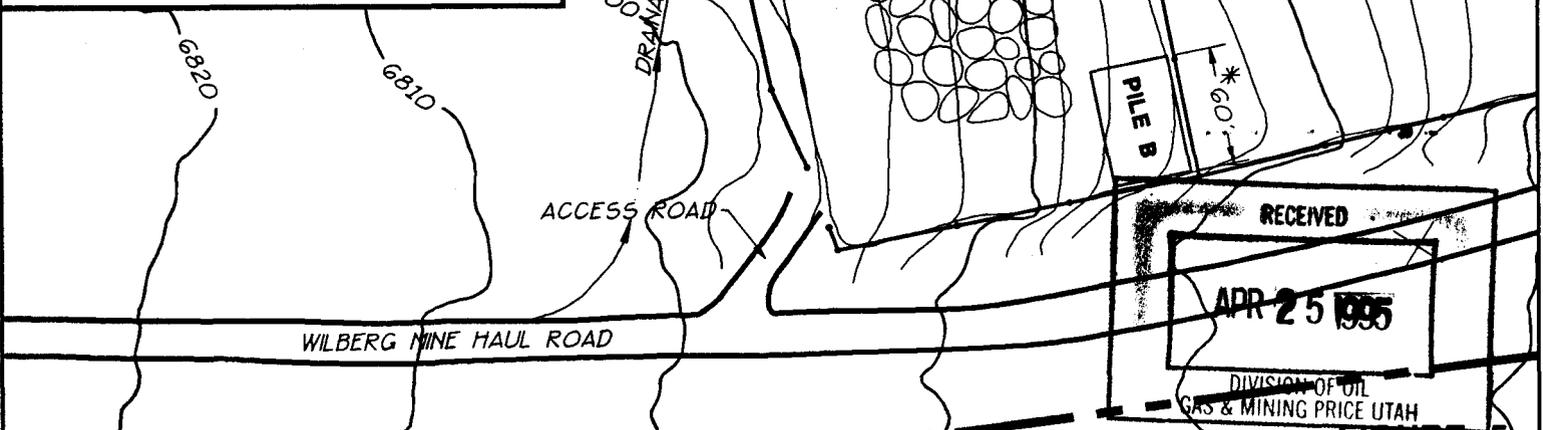
TYPICAL CROSS SECTION  
THRU PILE A



TYPICAL CROSS SECTION  
THRU PILE B



TYPICAL CROSS SECTION  
THRU PILE C



RECEIVED  
APR 25 1995  
DIVISION OF OIL  
GAS & MINING PRICE UTAH

FIGURE 5

CAD FILE NAME/DISK#: SOILPILE

ENERGY WEST  
MINING COMPANY  
HUNTINGTON, UTAH 84528

COTTONWOOD MINE  
OVERLAND CONVEYOR  
SUBSOIL & NATIVE SOIL STORAGE

DRAWN BY: K. LARSEN

KS1517A

SCALE: 1"=100'

DRAWING #:

DATE: DEC. 15, 1994

SHEET 1 OF 1 REV. \_\_\_\_\_

\* DISTANCE WILL VARY  
DEPENDING ON EXACT  
QUANTITY STOCKPILED.

PILE A AND PILE C  
ARE NATIVE SOILS  
FOR THE OVERLAND  
CONVEYOR RECLAMATION

PILE B IS SUBSOIL FOR  
COTTONWOOD FAN PORTAL  
RECLAMATION



State of Utah  
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March 23, 1995

Mr. Val Payne  
Sr. Environmental Engineer  
PacifiCorp  
P.O. Box 1005  
Huntington, UT 84528

Re: Approval of Overland Conveyor, Cottonwood/Wilberg Mine, PacifiCorp, ACT/015/019-94G, Folder #3, Emery County, Utah

Dear Mr. Payne:

The Overland Conveyor amendment is approved with the following conditions:

- 1) Within 30 days, the permittee must submit for inclusion in the mining and reclamation plan, a map of the entire Johnson Mine site on the Cottonwood Fan Portal Surface Facilities Map, Plate 3-16A. (R645-301-411.141),
- 2) The side slopes of the topsoil stockpiles must be decreased to at least 2H:1V. (R645-301-230),
- 3) Within 30 days of completion of this project, the permittee must submit as-builts for inclusion in the mining and reclamation plan, and,
- 4) Submit twelve finalized copies of this amendment by April 24, 1995.

Sincerely,

Pamela Grubaugh-Littig  
Permit Coordinator

Enclosure

cc: Daron Haddock  
Joe Helfrich



## PERMIT AMENDMENT APPROVAL

Title: <u>Overland Conveyor</u>	PERMIT NUMBER: <u>ACT/015/019</u>
Description:	PERMIT CHANGE #: <u>946</u>
	MINE: <u>Cottonwood/Wilkey</u>
	PERMITTEE: <u>Pacifi Corp</u>

### WRITTEN FINDINGS FOR PERMIT APPLICATION APPROVAL

YES, NO or N/A

1.	The application is complete and accurate and the applicant has complied with all the requirements of the State Program.	Yes
2.	The proposed permit area is not within an area under study or administrative proceedings under a petition, filed pursuant to R645-103-400 or 30 CFR 769, to have an area designated as unsuitable for coal mining and reclamation operations, unless:	Yes
A.	The applicant has demonstrated that before January 4, 1977, substantial legal and financial commitments were made in relation to the operation covered by the permit application, or	Yes
B.	The applicant has demonstrated that the proposed permit area is not within an area designated as unsuitable for mining pursuant to R645-103-300 and R645-103-400 or 30 CFR 769 or subject to the prohibitions or limitations of R645-103-230.	Yes
3.	For coal mining and reclamation operations where the private mineral estate to be mined has been severed from the private surface estate, the applicant has submitted to the Division the documentation required under R645-301-114.200.	Yes
4.	The Division has made an assessment of the probable cumulative impacts of all anticipated coal mining and reclamation operations on the hydrologic balance in the cumulative impact area and has determined that the proposed operation has been designed to prevent material damage to the hydrologic balance outside the permit area.	Yes
5.	The operation would not affect the continued existence of endangered or threatened species or result in destruction or adverse modification of their critical habitats, as determined under the Endangered Species Act of 1973 (16 U.S.C. 1531 et.seq.).	Yes
6.	The Division has taken into account the effect of the proposed permitting action on properties listed on and eligible for listing on the National Register of Historic Places. This finding may be supported in part by inclusion of appropriate permit conditions or changes in the operation plan protecting historic resources, or a documented decision that the Division has determined that no additional protection measures are necessary.	Yes
7.	The Applicant has demonstrated that reclamation as required by the State Program can be accomplished according to information given in the permit application.	Yes
8.	The Applicant has demonstrated that any existing structure will comply with the applicable performance standards of R645-301 and R645-302.	Yes
9.	The Applicant has paid all reclamation fees from previous and existing coal mining and reclamation operations as required by 30 CFR Part 870.	Yes
10.	The Applicant has satisfied the applicable requirements of R645-302.	NA
11.	The Applicant has, if applicable, satisfied the requirements for approval of a long-term, intensive agricultural postmining land use, in accordance with the requirements of R645-301-353.400.	NA

### SPECIAL CONDITIONS OR STIPULATIONS TO THE PERMIT AMENDMENT APPROVAL

YES      NO

1.	Are there any variances associated with this permit amendment approval? If yes, attach.		X
2.	Are there any special conditions associated with this permit amendment approval? If yes, attach. <u>see attached</u>	X	
3.	Are there any stipulations associated with this permit amendment approval? If yes, attach.		X

The Division hereby grants approval for Permit Amendment to the Existing Permit by incorporation of the proposed changes described herein and effective the date signed below. All other terms and conditions of the Existing Permit shall be maintained and in effect except as superseded by this Permit Amendment.

Signed Dawn R. Haddock  
 Division of Oil, Gas and Mining

3/23/95  
 EFFECTIVE DATE

# **PERMIT CONDITIONS**

## **OVERLAND CONVEYOR AMENDMENT**

**PACIFICORP**

**COTTONWOOD/WILBERG MINE**

**ACT/015/019-94G**

**March 23, 1995**

- 1) **R645-301-411.141**, Cultural and Historic Resources Maps. The permittee must submit for inclusion in the permit a map of the entire Johnson Mine site on the Cottonwood Fan Portal Surface Facilities Map, Plate 3-16A.
- 2) **R645-301-230** Side slopes of topsoil stockpiles must be decreased to at least 2h:1v.



State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
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March 17, 1995

TO: File

TO: Daron Haddock, Permit Supervisor

FROM: Henry Sauer, Senior Reclamation Soils Specialist *HS*

RE: Second Amendment (94G) Review, Overland  
Conveyor, Cottonwood Mine, PacifiCorp,  
ACT/015/019, Working File, Emery County, Utah

**SYNOPSIS**

The permittee has submitted a response (received on February 2, 1995) to the Division's Technical Review of October 11, 1994. This writer has reviewed the response for technical adequacy. It must be noted that the permittee excised plans for the reclamation of the Cottonwood Fan Portal from this permitting action. Therefore only soil removal, storage and redistribution for the disturbance created by the overland convey was considered by this writer.

The forthcoming issue (i.e. stockpile design) must be adequately addressed prior to permit approval.

**ANALYSIS**

*Rule Citation:* R645-301-230. [topsoil will] Be protected from wind and water erosion through prompt establishment and maintenance of an effective, quick growing vegetative cover or through other measures approved by the Division;

*Findings:*

The permittee topsoil stockpile designs for stockpiles A, B and C depict 1.5h:1.0v side slope. These must be decreased to at least 2.0h:1.0v side slopes.

The topsoil stockpiles will be left in a roughened condition and covered with erosion control blanket.

*Rule Citation:* R645-301-232. All topsoil will be removed as a separate layer from the area to be disturbed, and segregated.



*Findings:*

The projected area of new disturbance according to the plan is 0.05 acres. The soil series in the projected disturbed area has been mapped within the Reva Series. The permittee states that the A and/or AC horizon of the Reva series will not be salvaged. The permittee proposes to remove the unconsolidated lithologic material underlying the CFP subsoil stockpile and treating this material as topsoil for the reclamation of the Cottonwood Overland Conveyor. The upper portion of the lithologic material has fewer rocks and a slight color variation from material immediately below. These layers will be separately salvage, stockpiled and redistributed. The lithologic material will be separately stockpiled in Stockpile A (lower portion) and C (upper portion). The CFP Subsoil Pile will be separately stockpiled in Stockpile B.

In accordance with R645-301-232.710 the permittee is hereby granted a variance from the provisions of this section. The operator has adequately demonstrated that the removal of the Reva Series A-horizon in a separate layer from this area is impractical because of the slope, rockiness, limited depth of the Reva Series.

The lithologic material underlying the CFP subsoil pile may be removed and segregated, stockpiled, and redistributed as topsoil in accordance with the requirements of R645-301-234 and R645-301-242. This material will be used in the reclamation of the disturbance associated with the Cottonwood Overland Conveyor.

**RECOMMENDATION**

The permittee must adequately address R645-301-230.

F:COC-2TD