



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

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October 7, 1993

Mr. Val Payne
 Senior Environmental Engineer
 PacifiCorp
 P.O. Box 1005
 Huntington, Utah 84528

Re: Amended Approval of Seven Drill Holes, Trail Mountain Mine, PacifiCorp, ACT/015/009-93B, Folder #3, Emery County, Utah

Val
 Dear Mr. Payne:

The seven drill holes (TMTN-9 through TMTN-15) are approved with the following stipulations:

- 1) R645-301-333 (SW) - In the event that drill holes TMTN-11 and TMTN-14 are not drilled until 1994, the status of the raptor nests adjacent to these sites must be determined prior to drilling.
- 2) R645-301-353.120 (SW) - Within 10 days of permit approval, the permittee must provide, for inclusion in the PAP, a copy of the finalized seed mix.
- 3) R645-301-356 (SW) - By November 30, 1993, the permittee must submit, for inclusion in the PAP, the data, discussions and results of the vegetation survey of the drill pads, roads, and reference areas. The disturbed areas must be compared to the reference areas for similarity, as described in the Division's Vegetation Information Guidelines. The range condition classification and current and potential production rates must also be included in the reference area discussion.
- 4) R645-301-242.120 (HS) - The permittee must deep rip the compacted tire trails prior to seeding of the permanent seed mixture.



Seven Drill Holes
PacifiCorp
Trail Mountain Mine
ACT/015/009-93B

This approval also incorporates by reference the Forest Service and Bureau of Land Management stipulations for this permitting action (see attached). This significant revision was published, per Division requirements, with no adverse comments received. The surety bond has been increased from \$700,000 to \$1,000,000 (Bond #700819575, American Casualty Company).

Sincerely,



Lowell P. Braxton
Associate Director, Mining

pgl
Enclosure
cc/enc: Pamela Grubaugh-Littig, DOGM
Bill Malencik, PFO
George Morris, Manti-LaSal Forest
Tom Rasmussen, BLM, Price

APPENDIX A

SPECIAL STIPULATIONS

1. A pre-work meeting including the responsible company representative(s), contractors, and the Forest Service must be conducted at the project location prior to commencement of operations. Site-specific Forest Service requirements will be discussed at this time.
2. A Road Use Permit must be obtained from the Forest Service before equipment is transported onto National Forest System lands. The location of new roads is subject to Forest Service review and approval. No construction may begin prior to approval. Any modifications or changes to approved locations are also subject to review and approval.
3. All surface disturbing activities including reclamation must be supervised by a responsible representative of the permittee who is aware of the terms and conditions of the project permits. A copy of the appropriate permits must be available for review at the project site.
4. The Forest must be notified 48 hours in advance that heavy equipment will be moved onto National Forest System lands and that surface disturbing activities will commence.
5. Establishment of campsites and staging areas on National Forest System lands in support of this project is subject to Forest Service approval.
6. The Forest Service must be notified of any proposed alterations to the plan of operations. Any changes to the existing plan are subject to Forest Service review and concurrence.
7. Fire suppression equipment must be available to all personnel working at the project site. Equipment must include at least one hand tool per crew member consisting of shovels and pulaskis and one properly rated fire extinguisher per vehicle and/or internal combustion engine.
8. All gasoline, diesel, and steam-powered equipment must be equipped with effective spark arresters and mufflers. Spark arresters must meet Forest Service specifications discussed in the USDA Forest Service Spark Arrester Guide, June, 1981. In addition, all electrical equipment must be properly insulated to prevent sparks.
9. The permittee will be held responsible for damage and suppression cost for fires started as a result of operations. Fires must be reported to the Forest Service as soon as possible.
10. The Forest Service reserves the right to suspend operations during periods of high fire potential.
11. Water needed in support of operations must be properly and legally obtained according to state water laws. The location of diversion, if on National Forest System lands, is subject to Forest Service review and approval.

12. Unauthorized off-road vehicular travel is prohibited.
13. To prevent the spread of noxious weeds all trucks and other equipment must be washed thoroughly before entering the National Forest.
14. Section corners or other survey markers, including claim corners, in the project area must be located and flagged for preservation prior to commencement of surface disturbing activities. The removal, displacement, or disturbance of markers must be approved by the proper authority.
15. If cultural or paleontological resources are discovered during operations, all operations which may result in disturbance to the resources must cease and the Forest Service must be notified of the discovery.
16. All aquifers encountered during drilling will be documented as to depth and flow quantity estimates; this information shall be supplied to the Forest Service within 30 days of completion of the project.
17. Gates must be closed after entry unless otherwise notified.
18. The permittee will be held responsible for all damages to fences, cattleguards, resource improvements, roads, and other structures on National Forest System lands which result from operations. The Forest Service must be notified of damages as soon as possible.
19. All trees and brush must be cleared as the first step for new access and site construction. Topsoil must be stripped and stockpiled at a location where loss and contamination is minimized.
20. All disturbed areas must be reclaimed by the end of the field season. Exceptions require Forest Service approval. The reclaimed roads must be signed and blocked off to discourage vehicle access by the public.
21. Contaminated soil and gravel must be stripped and removed from the forest prior to site reclamation.
22. All disturbed areas must be replaced to approximate original contour, and the topsoil replaced. The disturbed area must be seeded with the following seed mix after the topsoil is replaced:

Species	pounds/acre
Intermediate Wheatgrass - <i>Agropyron intermedium</i>	3
Slender Wheatgrass - <i>Agropyron prachycaulum</i>	3
Crested Wheatgrass - <i>Agropyron cristatum</i> (Ephraim or high crest)	3
Smooth Brome - <i>Bromus inermis</i>	3
Yellow Sweet Clover - <i>Melilotus officinalis</i>	1
Ladak Alfalfa - <i>Medicago sativa ladak</i>	1
Small Burnett - <i>Sanguisorba minor</i>	1
Mountain Mahogany - <i>Cercocarpus montanus</i>	1
Utah Serviceberry - <i>Amelanchier alnifolia</i>	1
Mountain Big Sagebrush - <i>Artemisia tridentata vaseyana</i>	1

This seed mixture must be 99 percent pure live seed and applied at the rate of 18 pounds per acre.

Reclamation will be considered complete when the ground cover is 90% of that of the surrounding area. There must be no more than 10% weeds and no noxious weeds. If reclamation of the previously disturbed sections of road is not successful within 3 years, the operator will be required to place topsoil on the sites and reseed them.

23. To mitigate the temporary loss of forage production during the reclamation phase, the operator will do forage improvement on 50 acres of general winter range immediately north of the project area in an area specified by the Forest Service. The improvement will consist of ripping sod-bound smooth brome following the surface contour. The sod will be ripped on a 3 to 4 foot spacing, to a depth of 16 to 18 inches. The ripping depth will be reduced if necessary to avoid turning up rocks. This project will be done in the late spring or early summer (before August 1).
24. The operator will be held responsible for control of noxious weed infestations found to be a result of this drilling operation.
25. All disturbed drainages must be replaced to their approximate original configuration when the project area is reclaimed.
26. The operator must clean up and remove all drilling equipment, trash, garbage, flagging, vehicles, and other such materials from National Forest System lands.
27. All trash, garbage, and other refuse must be properly contained on the project site prior to disposal.
28. All drill holes must be plugged in accordance with Federal and State regulations.
29. Operations must be coordinated with grazing permittees to prevent conflicts.
30. Harassment of wildlife and livestock is prohibited. All vehicles will remain on the roads, and travel only as necessary.
31. To prevent disrupting livestock on general and key winter range, activity within the project area will not be allowed between November 1 and April 15.
32. All drilling fluids, muds, cuttings and water produced must be contained on site in mud pits or portable containers. Fluids must not be allowed to flow out over the ground or into drainages. The pit must not be used for disposal of garbage, trash, or other refuse. Unattended pits will be fenced to keep out livestock and wildlife.
33. Vegetation shall not be cleared for more than the width necessary to serve traffic needs.

34. Drill rigs and heavy equipment must not be transported on Forest Development Roads during the opening five days of the general elk hunt, opening weekend of the general deer hunt, or during Federal or State holiday weekends.
35. The permittee must make a one-time depletion payment for water used from the Colorado River Basin. This amount will be calculated by and paid to the U.S. Fish and Wildlife Service.
36. Stipulations for Lands of the National Forest System Under Jurisdiction of the Department of Agriculture.

The licensee/permittee/lessee must comply with all the rules and regulations of the Secretary of Agriculture set forth at Title 36, Chapter II, of the Code of Federal Regulations governing the use and management of the National Forest System (NFS) when not inconsistent with the rights and regulations must be complied with for (1) all use and occupancy of the NFS prior to approval of a permit/operation plan by the Secretary of the Interior, (2) uses of all existing improvements, such as Forest Development Roads, within and outside the area licensed, permitted or leased by the Secretary of the Interior, and (3) use and occupancy of the NFS not authorized by a permit/operating plan approved by the Secretary of the Interior.

All matters related to this stipulation are to be addressed

to Forest Supervisor
at Manti-LaSal National Forest
599 West Price River Drive
Price, Utah 84501

Telephone No. 801-637-2817

who is the authorized representative of the Secretary of Agriculture.

Stipulations to be Included in the Road Use Permit

37. Roads must not be used when they are wet and susceptible to damage.
38. The permittee is responsible for repair of any damages to roads which are caused by his operations.
39. All traffic must maintain safe speeds commensurate with existing conditions.
40. Roads must be watered if dust becomes a problem or if excessive loss of road material occurs.

BUREAU OF LAND MANAGEMENT
COAL EXPLORATION DRILLING STIPULATIONS
PACIFICORP TRAIL MOUNTAIN DRILLING

1. The Chief of the Price Coal Office shall be notified 48 hours prior to the start and completion of the program.
2. The lessee\licensee is responsible to see that all personnel contracted or otherwise doing work on the exploration program are aware of these approval requirements and abide by all regulations governing this program. Any changes to the approved exploration plan must receive approval from the Chief of the Price Coal Office prior to implementation.
3. When artesian flows or horizons with possible development potential are encountered, the Chief of the Price Coal Office shall be notified immediately so that a determination may be made concerning their development potential. When possible, water samples shall be collected by the operator for analysis by the BLM. A written report is required upon completion of exploration as noted by Stipulation 9 H.
4. The Chief of the Price Coal Office shall be notified 24 hours prior to setting surface and\or intermediate casing, so the BLM may arrange to be present. Each string shall be cemented to the surface.
5. Upon completion of down-hole procedures, all drill holes shall be properly sealed by emplacing cement through tubing in stage lifts from the bottom of the hole to ground level. The cement slurry mixture used to plug and seal the drill holes shall be mixed in compliance with standard cement mixing tables (e.g. Haliburton). Any variance from this procedure must be approved in advance by the Chief of the Price Coal Office.
6. If adverse down-hole conditions prevent a completed drill hole from being properly plugged after attempting all standard industry plugging procedures, the Chief of the Price Coal Office will be contacted immediately to make a determination as to a final plugging method.
7. The hole location is to be marked by placing an approved marker made of galvanized steel, brass, aluminum or similar noncorrosive metal in the concrete plug. Such markers are to show hole number, year drilled, lessee/licensee name, and as feasible, the section, township, and range in which the hole is located. Top of concrete plug, if located in cultivated field must be set below normal plow depth (10 to 12 inches). In noncultivated areas, all marker caps should not protrude above the ground level. All drill holes shall be surveyed in to assure proper location. An exact survey of each drill hole location will be submitted to the Chief of the Price Coal Office.
8. The Chief of the Price Coal Office shall be notified 24 hours in advance as to the time when each hole is to be plugged so that a representative of the BLM may arrange to observe the plugging procedure.
9. Upon completion of exploration activities, two copies of each report as required by 43 CFR 3485.1, shall be submitted to the Chief of the Price Coal Office. The reports at a minimum must contain the following:
 - A. Location(s) and serial number(s) of lands under Federal lease or license on which exploration was completed.
 - B. A description of the completed exploration operations that includes the number of holes drilled, total depth of each hole, and completion date of each hole.

C. A map showing the locations of all holes drilled, other excavations, and the coal outcrop lines as appropriate. The scale of the map shall not be less than 1 inch equals 1 mile.

D. Analysis of coal samples and other pertinent tests obtained from exploration operations.

E. Copies of all in-hole mechanical or geophysical stratigraphic surveys or logs, such as electric logs, gamma ray-neutron logs, sonic logs, or any other logs. The records shall include a lithologic log of all strata penetrated and conditions encountered such as water, gas, or any unusual conditions.

F. Status of reclamation of the disturbed areas.

G. Any other information requested by the Assistant District Manager for Mineral Resources.

H. Hydrologic reports using the attached form.

REPORT OF WATER OBSERVED

Company: _____ Lease/License Number: _____
 Address: _____ Drill Hole Number: _____
 _____ Date Completed: _____
 _____ Total Depth: _____

Company Contact: _____
 Phone Number: _____

Drilling Contractor: _____
 Address: _____

Company Contact: _____
 Phone Number: _____

Location of Hole: T. __ S., R. __ E., Section __ : __ 1/4 __ 1/4 __ 1/4
 Hole Elevation: _____ Hole Diameter: _____
 Drilling Method: _____
 Static Water Level: _____

Aquifer No. 1
 Depth Below Ground Elevation: _____ Formation: _____
 Rock Type: _____ Yield(GPM): _____
 Date Reported to BLM*: _____ Requirements of BLM*: _____
 _____ Water Sample Provided to BLM? _____

Aquifer No. 2
 Depth Below Ground Elevation: _____ Formation: _____
 Rock Type: _____ Yield(GPM): _____
 Date Reported to BLM*: _____ Requirements of BLM*: _____
 _____ Water Sample Provided to BLM? _____

Aquifer No. 3
 Depth Below Ground Elevation: _____ Formation: _____
 Rock Type: _____ Yield(GPM): _____
 Date Reported to BLM*: _____ Requirements of BLM*: _____
 _____ Water Sample Provided to BLM? _____

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 Refer to Stipulation Number 3