

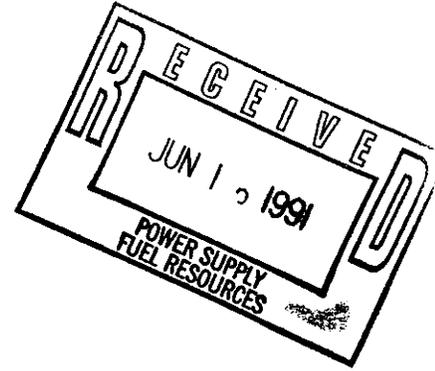


State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangertter
Governor
Dee C. Hansen
Executive Director
Dianne R. Nielson, Ph.D.
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340



June 12, 1991

Mr. James M. Parker
Utah State Office
Bureau of Land Management
324 South State, Suite 301
Salt Lake City, Utah 84111-2303

Dear Mr. Parker:

Re: Exploration Application, Trail Mountain UTU-67727, Cottonwood/Wilberg, CEP/015/019-91A, Exploration Folder & Folder #3, Emery County, Utah

The Division reviewed the exploration application submitted by PacifiCorp Electric Operations for Trail Mountain UTU-67727 (received June 11, 1991) and hereby makes a recommendation for approval. The Division requests that PacifiCorp Electric Operations notify us as to when exploration drilling commences and is completed.

Sincerely,

Pamela Grubaugh-Littig
Permit Supervisor

jbe

cc: Blake Webster, PEO
AT015019.001

OCT 16 1991

DIVISION OF
OIL GAS & MINING

ONE UTAH CENTER

201 SOUTH MAIN • SUITE 2100 • SALT LAKE CITY, UTAH 84140-0021 • (801) 220-2000

June 11, 1991

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

Re: Application for Exploration License, Trail Mountain
UTU 67727, Minor Coal Exploration R614-200-122

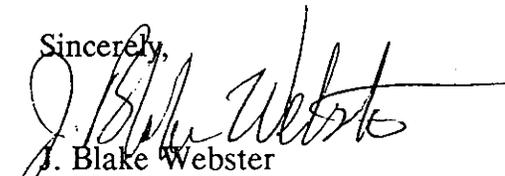
Dear Ms. Littig:

Included with this letter is a copy of application for coal exploration in the Trail Mountain area of Central Utah. The application was submitted to the Bureau of Land Management in September of 1990. It was our understanding that BLM would be the lead agency in this license and would include you in the process. We contacted BLM this morning and informed them that we would be giving this copy to you.

We hope this will not delay the license approval. We are hoping to begin drilling in July when access to the mountain is possible.

Our apologies for the mix-up. It was not our intention to purposely exclude the Division. We look forward to your approval.

Sincerely,


J. Blake Webster
Permitting Administrator

cc: Scott Child
Roger Fry
Val Payne
Randy Heuscher, BLM

R614-200- COAL EXPLORATION: INTRODUCTION

100. Scope

200. Responsibilities

R614-200- COAL EXPLORATION: INTRODUCTION

R614-200-100. Scope

110. The coal exploration rules, R614-200 through R614-203, apply to the Division and to any person who conducts or seeks to conduct coal exploration.

120. Coal Exploration Categories.

121. Coal Exploration Within an Approved Permit Area. Coal exploration that occurs within an approved permit area will require Division designation and approval as a permit amendment or significant revision.

122. Minor Coal Exploration. Coal exploration that occurs outside an approved permit area during which 250 tons or less of coal will be removed will require Division approval and issuance of a Minor Coal Exploration Permit under the requirements of R614-201-200.

123. Major Coal Exploration. Coal exploration that occurs outside an approved permit area during which more than 250 tons of coal will be removed will require Division approval and issuance of a Major Coal Exploration Permit under the requirements of R614-201-300.

R614-200-200. Responsibilities

210. It is the responsibility of any person seeking to conduct coal exploration under the State Program to comply with the requirements of R614-200 through R614-203.

220. It is the responsibility of the Division to receive applications or requests for approval of coal exploration, approve or disapprove the applications or requests, and to issue, condition, suspend, revoke and enforce approvals under the State Program. The Division will review and respond to an initial application or request for coal exploration approval within 15 days of receipt of the application.

230. The Division will coordinate review and approval or disapproval of coal exploration applications with other government agencies, as appropriate.

R614-201- COAL EXPLORATION: REQUIREMENTS FOR EXPLORATION APPROVAL

100. Exploration Within Permit Areas

200. Minor Coal Exploration Permits

300. Major Coal Exploration Permits

400. Requirements for Commercial Sale

R614-201- Coal Exploration: Requirements for Exploration Approval

R614-201-100. Coal Exploration Within Permit Areas

110. Division approval in accordance with the requirements of R614-201-100 and R614-301, as applicable is required for exploration that occurs within an approved permit area.

120. Division approval of exploration within an approved permit area will constitute a permit amendment or significant revision as defined by R614-303-220 and will be processed according to the requirements of R614-303-220.

130. The information required in the request for approval to conduct exploration within an approved permit area will initially include all of the information listed under R614-201-220 but may require more detailed information by the Division for approval under R614-303-220.

140. The request for approval to conduct exploration within an approved permit area will include a detailed estimate, according to the requirements of R614-301-800, of the cost of reclamation of surface disturbance related to the proposed exploration, with supporting calculations for the estimate.

R614-201-200. Minor Coal Exploration Permits

210. Applications for Minor Coal Exploration Permits when 250 tons or less of coal will be removed will require written Division approval prior to conducting exploration.

220. Applications for Minor Coal Exploration Permits will include:

221. The name, address and telephone number of the applicant seeking to explore;

222. The name, address and telephone number of the applicant's representative who will be present at, and responsible for conducting the exploration operations;

223. A narrative and map describing the exploration area and indicating where exploration will occur in relation to an approved permit area;

224. A statement of the period of intended exploration; and

225. A description of the method of exploration to be used, the amount of coal to be removed and the practices that will be followed to protect the area from adverse impacts of the exploration activities and to reclaim the area in accordance with the applicable requirements of R614-202.

R614-201-300. Major Coal Exploration Permits

310. Any person who intends to conduct coal exploration outside an approved permit area in which more than 250 tons of coal will be removed in the area to be explored or which will take place on lands designated as unsuitable for coal mining and reclamation operations under R614-103, will, prior to conducting the exploration, submit an application for a Major Coal Exploration Permit and obtain written approval from the Division.

320. Contents of Major Coal Exploration Permit Applications. Each application for a Major Coal Exploration Permit approval will contain, at a minimum, the following information:

321. The name, address, and telephone number of the applicant;

324 South State
P.O. Box 26128
Salt Lake City, Utah 84126-0128



September 17, 1990

Mr. Randy Heuscher, Chief
Mining Law & Solid Minerals
324 South State Street, Suite 301
Salt Lake City, Utah 84111-2303

Re: APPLICATION FOR EXPLORATION LICENSE -
NORTHERN PORTION TRAIL MOUNTAIN

Dear Mr. Heuscher:

Transmitted herewith is PacificCorp's application for a coal exploration license on the northern portion of Trail Mountain in Emery County, Utah.

Included with this submittal are three (3) copies each of the application together with a proposed newspaper advertisement.

It is planned to conduct drilling by June 1, 1991. To accomplish the necessary review and assessments of our plan, we would appreciate scheduling an on-site visit in early October 1990 (prior to snow fall) with all concerned parties to give the licensing process a head start.

Your attention to this request is very much appreciated. Should you have any questions, please call me at 220-4612.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott M. Child".

Scott M. Child
Senior Compliance &
Land Status Analyst
Fuel Resources

SMC:bb:6533
Enclosure

NOTICE OF INVITATION TO PARTICIPATE IN COAL EXPLORATION PROGRAM

PACIFICORP ELECTRIC OPERATIONS - UTU 67727

PacifiCorp Electric Operations is inviting all qualified parties to participate in its proposed exploration of certain federal coal deposits in the following described lands in Emery County, Utah:

T. 17 S., R. 6 E., SLM, Utah
Sec. 2, SW $\frac{1}{4}$
Sec. 3, All
Sec. 4, Lots 1,2,3, S $\frac{1}{2}$ NE $\frac{1}{4}$, SE $\frac{1}{4}$ NW $\frac{1}{4}$,
E $\frac{1}{2}$ SW $\frac{1}{4}$, SE $\frac{1}{4}$
Sec. 9, E $\frac{1}{2}$, E $\frac{1}{2}$ W $\frac{1}{2}$
Sec. 10, All
Sec. 11, W $\frac{1}{2}$
Sec. 14, W $\frac{1}{2}$
Sec. 15, All
Sec. 16, NE $\frac{1}{4}$ NW $\frac{1}{4}$

Containing ^{3,564.84}~~3,500.2~~ Acres

Any party electing to participate in this exploration program must send written notice of such election to the Bureau of Land Management, Utah State Office, P. O. Box 45155, Salt Lake City, Utah 84145-0155 and to Scott M. Child, PacifiCorp Electric Operations - Fuel Resources, P. O. Box 26128, Salt Lake City, Utah 84126-0128. Such written notice must be received within thirty days after publication of this notice in the Federal Register.

Any party wishing to participate in this exploration program must be qualified to hold a lease under the provisions of 43 CFR 3472.1 and must share all cost on a pro rata basis. A copy of the exploration plan, as submitted by PacifiCorp Electric Operations, is

available for public review during normal business hours in the BLM office, (Public Room Fourth Floor), 324 South State Street, Salt Lake City, Utah, under Serial Number UTU

**PACIFIC ELECTRIC OPERATIONS
FUEL RESOURCES**

**TRAIL MOUNTAIN EXPLORATION LICENSE - EXPLORATION PLAN
SEPTEMBER 1990**

43 CFR Ch. 11 (10-1-88 Edition) Subpart 3482.1(a) - Exploration Plans

Applicant: PacifiCorp Electric Operations
324 South State Street
P. O. Box 26128
Salt Lake City, Utah 84126-0128

Representative of Applicant:

Scott M. Child
PacifiCorp Electric Operations
Fuel Resources Department
324 South State Street
P. O. Box 26128
Salt Lake City, Utah 84126-0128
Phone: 801-220-4612

Field Representative:

Dale Wilson
Exploration Field Coordinator
PacifiCorp Electric Operations
P. O. Box 1005
Huntington, Utah 84523
Phone: 801-653-2312

Description of the Proposed Exploration Area and Project:

The following is a legal description of the lands recommended for inclusion in the Exploration License (reference north Trail Mountain exploration license map).

<u>Township 17 South, Range 6 East</u>	<u>Acres</u>
Section 2: SW $\frac{1}{4}$	160.00
Section 3: All	615.95
Section 4: Lots 1,2,3, S $\frac{1}{2}$ NE $\frac{1}{4}$, SE $\frac{1}{4}$ NW $\frac{1}{4}$, E $\frac{1}{2}$ SW $\frac{1}{4}$. SE $\frac{1}{4}$	424.05
Section 9: E $\frac{1}{2}$, E $\frac{1}{2}$ W $\frac{1}{2}$	480.00
Section 10: All	625.40
Section 11: W $\frac{1}{2}$	320.00
Section 14: W $\frac{1}{2}$	319.88
Section 15: All	579.56
Section 16: NE $\frac{1}{4}$ NW $\frac{1}{4}$	<u>40.00</u>
TOTAL	3,564.84

Surface Ownership:

(All)

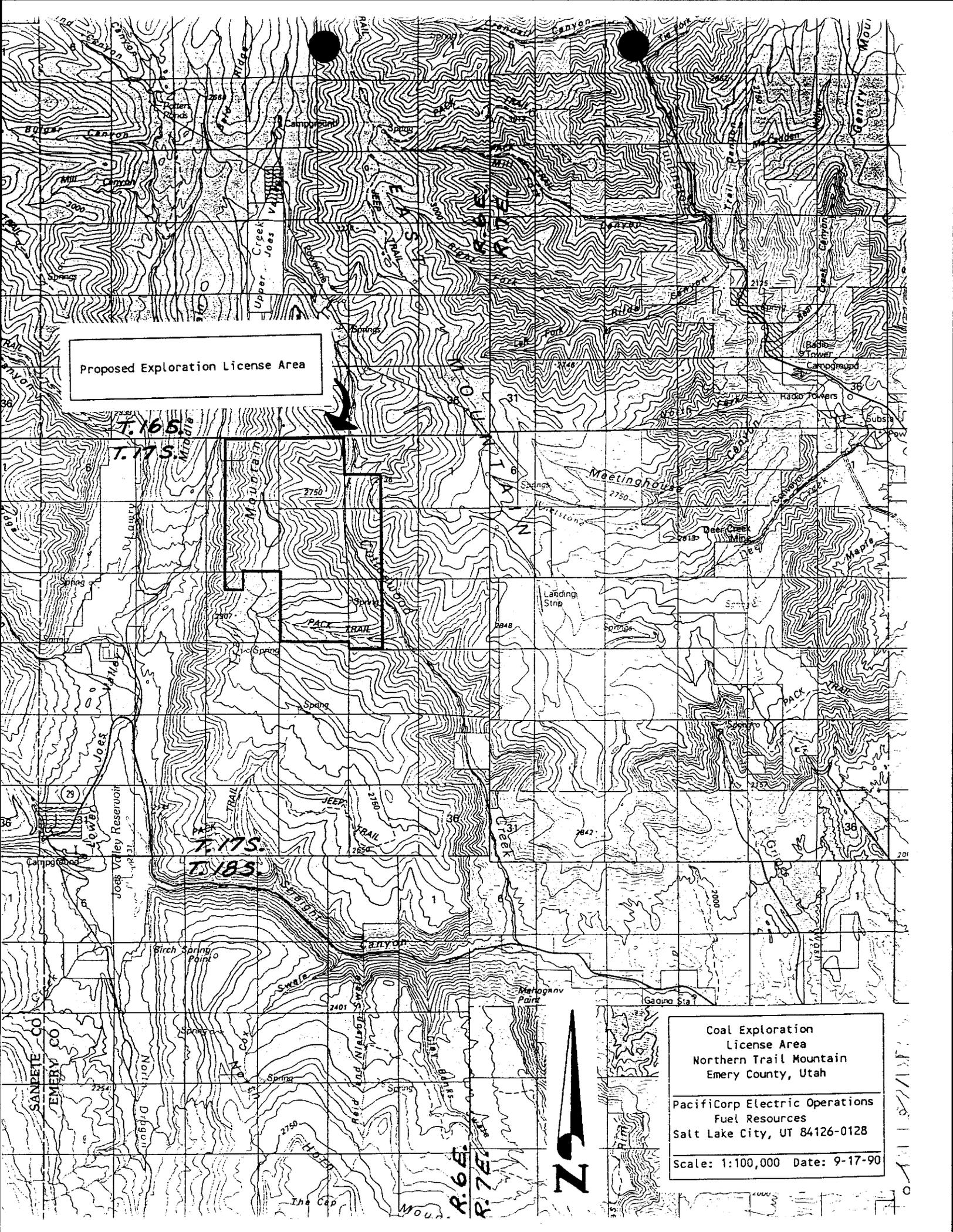
U. S. Forest Service
Manti-LaSal National Forest
Ferron District
P. O. Box 310
Ferron, Utah 84523

Subsurface Ownership:

(All)

U. S. Department of Interior
Bureau of Land Management
324 South State Street
Salt Lake City, Utah 84111-2303

Much of the coal within the proposed exploration area is classified as demonstrated because of prior drilling completed on adjacent lands, on Trail Mountain and East Mountain by Utah Power & Light Company and holes completed on the north end of Trail Mountain by the Federal Government in 1970's and early 80's. Because of the amount of previously demonstrated reserves from prior drilling, it is proposed to drill two holes (TMTN-7 and TMTN-8) within the exploration license area to achieve the required 90% of demonstrated reserves in the proposed license area. The holes will be positioned adjacent to existing roads. TMTN-7 is located approximately 2100 feet west and 2100 feet south of the northeast corner of Section 15, T.17S., R.6E., S.L.M. TMTN-8 is located



Proposed Exploration License Area

T.165
T.175

T.175
T.185

Coal Exploration License Area
Northern Trail Mountain
Emery County, Utah

PacifiCorp Electric Operations
Fuel Resources
Salt Lake City, UT 84126-0128

Scale: 1:100,000 Date: 9-17-90



SANPETE CO
EMERY CO

R.6E
R.7E

The Cap

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approximately 900 feet west and 2000 feet south of the northeast corner of Section 4, T.17S., R.6E., S.L.M. The total depth of hole TMTN-7 is estimated at 2100 feet and hole TMTN-8 is estimated at 2250 feet total depth. Both holes will be cored utilizing a 5" O.D. core barrel producing a 3" O.D. core sample from penetrating the coal zone (roof, floor, and seam) for approximately 100 feet.

The holes to be completed are located in areas covered by Pinyon Juniper stands which are interspersed with sagebrush and grass covered flats. In addition to the Pinyon Pine and Utah Juniper, prevalent vegetation includes Serviceberry, Mormon Tea and Rabbit Brush.

These drill holes are not located within any eagle nest buffer zone.

A cultural and archeological exploration of the disturbed areas will be done prior to exploration activities.

Exploration Equipment

Drill Rig:

- 1 - Gardner Denver 2000 Style, or equivalent, rotary type drilling

The drilling rig will require supporting vehicles as follows:

- 1 - Water truck, 80 to 100 barrel capacity
- 1 - Flat-bed truck for carrying drill pipe and casing
- 1 - D8H Crawler Tractor
- 1 - Landscape Tractor/Trailer
- 1 - Semi-Truck/Flat-Bed Trailer
- 1 - Logging Truck (Geophysical Probe Truck)
- 1 - Pickup Trucks (Crew Transportation)
- 1 - 700 CFM Compressor and Booster

Access roads, pads and mud pits are constructed using a crawler tractor and backhoe. On near flat areas blade work will be minimal, only the low growing brush will be removed by back-blading the surface.

Preservation of topsoil is managed by stripping the drill pads and stockpiling the topsoil adjacent to the drilling site.

Drilling sequence is as follows:

A crawler tractor constructs a minimum width road from the existing road system to the proposed sites. This rough construction road is built balancing the cuts and fills. The drill pad, usually 50 x 75 feet is laid out to fit the slope of ground allowing for the least amount of cut.

If the drill site is level the area is back-bladed to remove the vegetation leaving the topsoil in place, otherwise, the site is cleared of brush and topsoil stripped and stockpiled awaiting reclamation work. The mud pit is then excavated. Upon completion of the site the drill rig is driven to the site and set up to begin drilling. Ancillary equipment such as compressors, booster, water truck and flat-bed (drill pipe) trucks are positioned on the pad.

Once drilling has begun it continues until the exploration hole is completed or in the case of a planned core hole, casing is set at the prescribed depth. During the drilling period, drilling materials and cement are delivered to the site awaiting plugging of the hole.

After reaching the planned depth the drill string is removed from the hole and the geophysical logging truck is positioned to probe the hole. Upon recording the necessary data (geophysical logs) the hole is plugged using a two to one cement/water slurry

plugging the entire length of the hole drilled. The drilling rig and support equipment are then moved from the site. The drilling site is cleaned of waste and trash and reclamation of the site will begin as soon as the mud pit has lost its fluids.

Fire Prevention

In the past fire hazard has not been a major problem. The clearing of drill sites reduces the chance of machine related ignitions and the storing of combustible fuels in a safe are further lessens any fire hazards associated to drilling. Each drilling rig is attended both day and night and if needed, a 3,000 gallon water truck is available for fire suppression.

Soil Erosion:

Short-term soil erosion protection is accomplished by road design, that is, during road construction the roads are designed to the minimum grade possible and out-sloped for drainage. Where necessary, water bars and/or culverts may be utilized to control drainage. Water bar location and culvert placement will be determined at the site. Reclamation of the roads will either consist of obliteration or to have water bars installed, depending upon the requirement of the U. S. Forest Service. All disturbed areas will be seeded with an approved mix. In the event any reclaimed slope is greater than 33%, applicant will mulch and construct water diversion structures as needed.

Water Pollution Control Measures:

What little surface water exists on Trail Mountain is found in the form of springs,

seeps and small ponds. These waters are used primarily for stock and wildlife and some are developed with tanks and troughs. All access roads and pads located across or adjacent to live or intermittent streams will require culverts or other protective measures to safeguard water quality. Ground water encountered during drilling will be evaluated for monitoring purposes.

Present regulations are specific in monitoring ground water (hydrologic balance) for determining future impacts associated with mining. Measures to protect the migration of ground water will be to cement the hole completely.

Air Pollution:

We anticipate no significant impact to the air quality due to the drilling and other than watering roads for dust suppression no specific measures are planned.

Damage to Fish and Wildlife:

The area of drilling is abundant with wildlife and is known primarily for its deer and elk harvest each Fall. Past experience on nearby lands has proven that wildlife disturbance is minimal. The drilling period occurs after the calving season and the area of drilling activities is small and isolated.

Fisheries:

There are no major fisheries within the drilling influence zone.

Other Natural Resources:

Of the planned two (2) drill pads and associated access roads, it is estimated that less than one acre will be disturbed. For the most part, this disturbance will occur on open grass-covered range land. Some aspen and small conifer trees may be removed to provide access if necessary.

Public Health and Safety:

Due to the remoteness of the drilling area, public safety involvement is small.

As an operator, PacifiCorp Electric Operations required by contract that the drilling contractor is knowledgeable and complies with all state and local laws related to his drilling operations and that all equipment used in conjunction with this project meet the safety standards of the federal, state, and local governing agencies.

Method of Plugging Drill Holes:

Upon completion of the drill hole, a proper cement slurry shall be placed in the hole through the open-ended drill pipe using 200 foot segmented lifts for inducing a pressure grout for plugging the drill hole. A hole location marker shall be placed on the surface of the hole to witness its location. This hole plugging procedure is a stipulation of the Bureau of Land Management.

Reclamation Schedule:

It is planned to reclaim each site as soon after drill hole completion as possible.

We have found from prior drilling in nearby areas that the mud pits require at least two weeks or more to dissipate their fluids. Should fencing of the mud pit be required by the surface agency then the applicant will incorporate this into the plan. After the reclamation sequence has started it will continue until complete. The average time to drill a 2,000 foot hole in this area is about four days, reclamation work per site will average two days. We are planning to complete the reclamation work during 1991.

Grading and Backfilling:

Road removal will be in accordance with the U. S. Forest Service stipulations attached to the surface management agency's approval.

Using a crawler tractor, the mud pits will be filled in, the drill pads bladed, contoured to their original shape and the previously stockpiled topsoil spread evenly over the disturbed areas.

Method of Soil Preparation and Fertilizer Application:

There is no special soil preparation planned excepting harrowing the disturbed areas after seeding. No fertilizer is planned.

Type and Mixture of Grass Seed:

<u>Species</u>	<u>Per Acre</u>
Slender Wheatgrass	3 lbs.
Intermediate Wheatgrass	3 lbs.
Crested Wheatgrass	3 lbs.
Smooth Brome	1 lb.
Yellow Sweet Clover	1 lb.
Ladak Alfalfa	1 lb.
Small Burnett	1 lb.

Note: 99% pure live seed, certified weed-free applied at the rate of 15 pounds per acre.

Method of Planting and Quantity:

All grass seeds are broadcast by a hand-held rotary broadcaster. Areas seeded are cultivated and raked with a tractor-drawn tooth harrow. The rate of application is fifteen (15) pounds per acre.

Estimated Timetable and Completion Date for Reclamation Work:

Once reclamation of a drill site begins all phases are continuous, that is, cat work, spreading topsoil, ditching, seeding, and harrowing. The drill site and access road will be reclaimed as soon as possible after the hole has been completed.

Completion is scheduled by November 15, 1991, or sooner, contingent on the drilling success and the starting drilling date anticipated at June 1, 1991.

Included in this submittal is a topographical and land status map showing existing roads, major drainages, and the proposed drilling sites with proposed access roads.

1991 Proposed Drill Holes

<u>Hole No.</u>	<u>Location</u>	<u>Proposed Depth</u>
TMTN-7	NE $\frac{1}{4}$, Sec. 15, T17S, R6E, S.L.M.	2,100
TMTN-8	NE $\frac{1}{4}$, Sec. 4, T17S, R6E, S.L.M.	<u>2,250</u>
	TOTAL	4,350