



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangerter

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

May 30, 1991

Mr. Ben Grimes
Plateau Mining Company
P.O. Drawer PMC
Price, Utah 84501

Dear Mr. Grimes:

Re: Coal Exploration, Cyprus-Plateau Mining Corporation, Star Point Mine,
ACT/007/006-91B, Folder #3, Carbon County, Utah

The Division reviewed and hereby approves the coal exploration plan for exploring for less than 250 tons which will be conducted on lands where both surface and coal are privately held by Intermountain Power Agency. Please notify the Division as to commencement and completion of this exploration program.

Sincerely,

Pamela Grubaugh-Littig
Permit Supervisor

jbe
Enclosure
AT007006.04



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

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

February 1, 1991

Mr. Eric Jones
Acting Assistant District Manager
Mineral Resources
Bureau of Land Management
Moab District
PO Box 970
Moab, Utah 84532

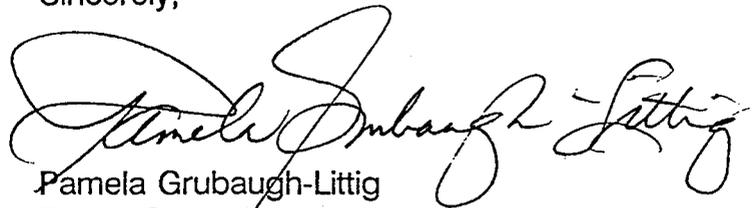
Dear Mr. Jones:

Re: Exploration Plans, Cyprus-Plateau Mining Company, ACT/007/006, Federal Coal Lease U-61049, Folder #2

Enclosed please find a memorandum that outlines three conditions of approval for Federal Coal Lease U-61049 from the Division of Oil, Gas, and Mining.

If you have any questions, please call me.

Sincerely,



Pamela Grubaugh-Littig
Permit Supervisor

jbe
Enclosures
cc: Brent Northrup, BLM, Moab
Ben Grimes
Susan White
ATU61049



State of Utah

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

January 31, 1991

TO: Pamela Grubaugh-Littig, Permit Supervisor

FROM: Susan M. White, Reclamation Biologist *SMW*

RE: Minor Coal Exploration Permit, Cyprus Coal Company,
ACT/007/006, Exploration Folder, Carbon County, Utah

Synopsis and Analysis

Cyprus Coal Company, acting as operator for Intermountain Power Agency, has submitted a proposal for a coal exploration project which will remove less than 250 tons of coal. The proposed exploration is outside a permit area boundary. The coal is within a federal lease; therefore, the Bureau of Land Management is responsible for issuing the coal exploration permit.

Recommendation

The following are recommendations for conditions of approval:

1. The applicant must commit to notifying all agencies concerned upon commencement and completion of activities.
2. The Division recommends that the seed mixture to be used in revegetation consist of grass, forb, and shrub species, which are native to the immediate area.
3. The applicant should reference the April 15, 1990 listing of Endangered and Threatened Wildlife and Plants.

jbe
AT007006.7

PERMIT TRACKING FORM

Divide Permit Area
Make recommendations

Type of Proposal:

MRP AMENDMENT _____
 MRP REVISION _____
 EXPLORATION

TDN # _____
 NOV #N _____, # _____ of _____
 CO #C _____, # _____ of _____

I. B. C. _____ (Incidental Boundary Change)

Title of Proposal: Exploration - Cyprus Plateau Mining Corp.

Company Name: Starpoint Mines

File #: (INA / PRO / ACT / CEP) 007 / 006 - 91 ~~2~~ # New Acres: _____

LEAD Reviewers: Susan

Tech Memo Drafted

	Yes	No
HYDROLOGY	()	()
BIOLOGY	()	()
ENGINEER	()	()
SOILS	()	()
GEOLOGY	()	()

Please Check Appropriate Box!!

Dates:

- | | |
|---|---|
| <p>(1) Initial Plan Received <u>1/22/91</u>
 Tech Review Due _____
 Tech Review Complete _____
 DOGM Response Sent _____
 Operator Response Due _____</p> <p>(2) Operator Response Rc'd _____
 Tech Review Due _____
 Tech Review Complete _____
 DOGM Response Sent _____
 Operator Response Due _____</p> <p>(3) Operator Response Rc'd _____
 Tech Review Due _____
 Tech Review Complete _____
 DOGM Response Sent _____
 Operator Response Due _____</p> | <p>(4) Operator Resubmission _____
 Tech Review Due _____
 Tech Review Complete _____
 DOGM Response Sent _____
 Operator Response Due _____</p> <p>(5) Operator Response Rcd _____
 Tech Review Due _____
 Tech Review Complete _____
 DOGM Response Sent _____
 Operator Response Due _____</p> <p>Conditional Approval _____
 Stipulations Due _____
 Stipulations Received _____
 DOGM Response Sent _____
 Final Approval _____
 Filed in MRP _____
 Author _____
 Transmitted _____</p> |
|---|---|

COMMENTS: Recommendation to BLM sent 2/1/91
(Further copies sent to FS 5/8/91)

3482
(U-61049)
(U-065)

Moab District
P.O. Box 970
Moab, Utah 84532

JUL 19 1991

Mr. Greg L. Hunt
Cyprus Coal Company
9100 East Mineral Circle
P. O. Box 3299
Englewood, Colorado 80155

Dear Mr. Hunt:

Cyprus Coal Company's 1991 coal exploration drilling plan for Federal coal lease U-61049, Forest Service surface, is approved as submitted subject to the following conditions:

1. All drill holes will be properly sealed in accordance with the enclosed drilling stipulations;
2. A road-use permit for Forest Development Roads must be obtained from the Forest Service before any work begins;
3. The enclosed Forest Service Special Stipulations will be followed.

An approved copy of the exploration plan is enclosed. Tom Rasmussen of my staff will be the point of contact for any questions and notifications, please call (801) 637-4582 or (303) 243-3262.

Sincerely yours,

/S/ WILLIAM C. STRINGER

Assistant District Manager
Mineral Resources

Enclosures (3)
1-BLM Drilling Stipulations
2-Forest Service Special Stipulations
3-Approved Plan

cc:
U-065c, Price Coal Office (w/Encls.)
U-921, Utah State Office (w/Encls.)
Manti-LaSal National Forest (w/Encls.)
Price, Utah 84501
Utah Division of Oil, Gas and Mining (w/Encls.) ✓
Salt Lake City, Utah 84180-1203

RECEIVED

JUL 22 1991

DIVISION OF
OIL GAS & MINING

BNorthrup:caf:7/18/91 Wordperfect Editorial Assist Disk A:CyprusLtr (delete)

COAL EXPLORATION DRILLING STIPULATIONS
CYPRUS COAL COMPANY

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 8 H.
4. Upon completion of down-hole procedures, all drill holes shall be properly sealed by emplacing cement through tubing from the bottom of the hole to the collar to prevent rock fracturing. Any variance from the procedures itemized below must be approved in advance by the Chief of the Price Coal Office.
5. 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.
6. 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.
7. 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.

8. Upon completion of exploration activities, two reports as required by 43 CFR 3485.1 shall be submitted to the Chief of the Price Coal Office, Moab District. 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 District Manager.

H. Hydrologic reports using the attached form.

9. An individual lease or license bond in the amount of \$35,000.00, determined by the Price Coal Office, shall be filed with the State Office before commencement of exploration activities. The bond shall be used as required to cover costs incurred by the BLM to correct any violation of these stipulations.

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., SLB&M, Section- ___: ___ 1/4 ___ 1/4 ___ 1/4

Collar Elevation of Hole: _____ Hole Diameter: _____

Drilling Method/Medium: _____

Static Water Level: _____

Acquifer #1

Depth below Collar Elevation: _____ Formation: _____

Rock Type: _____ Yield(GPM): _____

Date Reported to BLM* _____ Requirements of BLM* _____

_____ Water Sample Provided to BLM? _____

Acquifer #2

Depth below Collar Elevation: _____ Formation: _____

Rock Type: _____ Yield(GPM): _____

Date Reported to BLM* _____ Requirements of BLM* _____

_____ Water Sample Provided to BLM? _____

* Refer to Stipulation Number 3

United States
Department of
Agriculture

Forest
Service

Manti-La Sal
National Forest

9 West Price River Dr.
Price, Utah 84501

Reply to: 2820

Date: July 16, 1991

Gene Nodine
Moab District Manager, BLM
P.O. Box 970
Moab, UT 84532

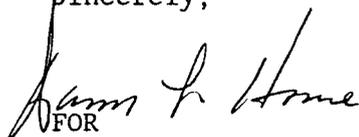
Dear Gene:

Enclosed is a copy of the Forest Service Decision Memo for Cyprus Coal Company's three-hole, coal drilling project located on Federal lands within Federal Coal Lease U-61049. The Decision Memo documents the Forest Service environmental analysis and consent decision.

As stated in the Decision Memo, the Manti-La Sal National Forest consents to approval of the drilling of the three holes subject to the attached Forest Service special stipulations. This decision is appealable to the Forest Service and it will be published in the Sun Advocate on July 16, 1991. The project can not be initiated before July 23, 1991.

If you have any questions, please contact the Forest Supervisor's Office at the above address or call (801) 637-2817.

Sincerely,


FOR
GEORGE A. MORRIS

ENCLOSURE

c: D-3
c: Price BLM Coal Shop

APPENDIX A

STIPULATIONS

Stipulations to be included in the Coal Drilling Permit/License

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/licensee who is aware of the terms and conditions of the projects permits/licenses. A copy of the appropriate permits/licenses 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 alternations 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 or mufflers. Spark arresters must meet Forest Service specifications discussed in the "General Purpose and Locomotive (GP/L) Spark Arrestor Guide, Volume 1, April, 1988"; and Multi-position Small Engine (MSE) Spark Arrestor Guide, Volume 2, April, 1988. In addition, all electrical equipment must be properly insulated to prevent sparks.
9. The permittee/licensee 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 Utah State water laws. The location of diversions, if on National Forest System lands, is subject to Forest Service review and approval. Water diversion structures, if needed must be constructed as specified by the Forest Service.
12. Unauthorized off-road vehicular travel is prohibited.
13. 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. Replacement will be done by the proper authority at the expense of the permittee/licensee.
14. 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.
15. Gates must be closed by the permittee after entry unless otherwise notified.
16. The permittee/licensee will be held responsible for all damage to fences, cattleguards, resource improvements, roads, and other structures on National Forest System lands which result from their operations. The Forest Service must be notified of damages as soon as possible.
17. Operations must be coordinated with grazing permittees to prevent conflicts.
18. Harrassment of wildlife and livestock is prohibited.
19. Topsoil must be stripped from areas occupied by parked vehicles and mud pits and stockpiled for use during reclamation. Topsoil stockpiles will be located to minimize contamination or loss. Rock material will be stockpiled seperately.
20. Drill pads will be designed to prevent or diminish overland flow from entering the site during precipitation events. Pad sites will be sloped to drain all spills and on-sites precipitation into the mud pits. If necessary, pits will be pumped out to reduce their content and insure that overflow does not occur. Fluids will be disposed off Forest at a Utah State approved disposal site.
21. All drilling fluids, mud and cuttings must be contained on the project site in mud pits or portable containers. 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.

22. During the drilling operations all trash, garbage and other refuse must be properly contained on the project prior to disposal at authorized sites.
23. All significant water encountered during drilling must be reported to the Forest Service, including the depth and formation at which it was encountered, and an estimate of the flow.
24. If any of the drill holes encounter artesian groundwater flow, the District Ranger must be notified prior to plugging the hole to determine whether or not the Forest Service would elect to establish a permanent water development at the site.
25. All drill holes must be plugged in accordance with Federal and State regulations.
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. Disturbed areas must be reclaimed by the end of the field season. Exceptions require Forest Service approval.
28. Drill rigs and heavy equipment (not including water trucks) must not be transported on or off Gentry Mountain area during the opening of the general elk hunt nor during the opening weekend of the general deer hunt. Water trucks must be preceded by a pilot vehicle when hauling water for the project during the hunting season.
29. Contaminated soil and gravel must be stripped and placed in the mud pit prior to site reclamation.
30. Mud pits must be allowed to dry or pumped before they are backfilled and reclaimed. If pumped, fluids will be disposed off Forest, at a Utah State approved site. They must be enclosed by a 4-strand barbed wire fence while they are left to dry.
31. Drill sites, roads to be obliterated, and mud pits when they are dry, must be reclaimed by selectively backfilling excavated materials, topsoil last, such that the disturbed area is replaced to approximate original contour. The disturbed area must be seeded with the specified seed mix.
32. Upon completion of the project, compacted soils must be scarified and seeded with the specified seed mix.
33. All disturbed drainages must be replaced to their approximate original configuration when the project area is reclaimed.
34. The reclaimed roads must be signed and blocked off to discourage vehicle access by the public.
35. Reclamation efforts will be diligently pursued to insure that a minimum ground cover is established on all disturbed areas which is equal to or greater than the surrounding undisturbed areas.

36. Seeding will be done with the following certified seed mix:

Species	pounds/acre
Intermediate Wheatgrass - <i>Agropyron intermedium</i>	3
Orchard Grass - <i>Dactylis glomerata</i>	2
Slender Wheatgrass - <i>Agropyron trachycaulum</i>	3
Smooth brome - <i>Bromus inermis</i>	3
Crested Wheatgrass - <i>Agropyron cristatum</i>	2
Ladak Alfalfa - <i>Medicago sativa ladak</i>	1
Yellow Sweet Clover - <i>Melilotus officinalis</i>	1
Small Burnett - <i>Sanguisorba minor</i>	1
Perennial Ryegrass - <i>Lolium perenne</i>	1

This seed mixture must be 99 percent pure live seed containing a maximum of 1% weeds none of which are noxious.

37. The operator will be held liable for control of noxious weed infestations found to be a result of this drilling operation. % sound) will be purchased by the permittee at appraised rates and removed from the area. Timber not meeting sawlog utilization standards but which is suitable for fuelwood will be cut into four foot lengths and decked at a location that is accessible to the public.
38. Outside berms will not be constructed on any roads.
39. Heavy equipment may not be moved on Forest Development Roads on the following dates; July, 24-26, September 5-7. If the project should continue into 1992, restricted dates will be determined at that time.
40. 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

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

100-101-10-10

APPROVED

EXPLORATION PLAN
FEDERAL COAL LEASE
U-61049
EMERY COUNTY, UTAH
F.S. SURFACE

APPROVED

CYPRUS COAL COMPANY
Operator For
INTERMOUNTAIN POWER AGENCY

DECEMBER 1990

INTRODUCTION

This Exploration Plan has been prepared by Cyprus Coal Company ("Cyprus") (a Delaware corporation) acting as operator for IPA (Intermountain Power Agency, a political subdivision of the state of Utah) for this exploration project. Pursuant to 43 CFR 3480.0-5(27) Cyprus will be operating under a written agreement with IPA.

The federal coal lease for which this exploration plan has been prepared is not contained within an approved permit area and therefore the format utilized follows that of 43 CFR (10-1-86, edition) Subpart 3482. The appropriate regulation is referenced and underlined and Cyprus' response follows.

Five copies of this plan are herewith submitted to the Moab, Utah BLM office.

The information contained in this exploration plan demonstrates that environmental protection and reclamation are integral parts of the proposed exploration program and that reclamation will progress as contemporaneously as practical with the program. Sufficient information is provided in the exploration plan to substantiate the effectiveness of Cyprus' proposed reclamation method.

3482.1(a)(3) Exploration plans shall contain all of the following:

3482.1(a)(3)(i) The name, address, and telephone number of the applicant, and, if applicable the operator/lessee of record.

Applicant and Operator:

Cyprus Coal Company
9100 East Mineral Circle
Post Office Box 3299
Englewood, Colorado 80155
Telephone: 303/643-5100

Lessee of Record:

Attention: Michael J. Nosanov
Department of Water and Power
the City of Los Angeles
(Operating Agent for
Intermountain Power Agency)
111 North Hope Street
Box 111
Los Angeles, CA 90051-0100
Telephone: (213) 481-5810

3482.1(a)(3)(ii)

The name, address, and telephone number of the applicant who will be representing and be responsible for conducting the exploration.

Gregory L. Hunt
Cyprus Coal Company
9100 East Mineral Circle
Post Office Box 3299
Englewood, Colorado 80155
Telephone: (303) 643-5071

3482.1(a)(3)(iii)

A narrative description of the proposed exploration area, cross-referenced to the map required under paragraph (a)(3)(viii) of this section, including applicable federal lease and license serial numbers; surface topography; geologic, surface water, and other physical features; vegetative cover; endangered or threatened species listed pursuant to the Endangered Species Act of 1973 (16 U.S.C. 1531, et seq.); districts, sites, buildings, structures, or objects listed on, or eligible for listing on, the National Register of Historic Places; and known cultural or archeological resources located within the proposed exploration area.

Federal Lease

This exploration plan encompasses that portion of federal coal lease U-61049 where the surface is controlled by the U.S. Forest Service.

Legal Description of Entire Lease

Refer to the proposed drill hole locations map; attached, for portion of the lease covered by this exploration plan.

T. 16S., R. 7E., SLM, Utah	T. 16S., R. 8E., SLM, Utah
Sec. 1, lot 2, SW $\frac{1}{4}$ NE $\frac{1}{4}$, W $\frac{1}{2}$ SE $\frac{1}{4}$;	Sec. 7, lots 3 and 4, E $\frac{1}{2}$ SW $\frac{1}{4}$;
Sec. 12, W $\frac{1}{2}$ NE $\frac{1}{4}$, E $\frac{1}{2}$ W $\frac{1}{4}$ SE $\frac{1}{4}$;	Sec. 18, LOTS 1-4, E $\frac{1}{2}$, E $\frac{1}{2}$ W $\frac{1}{2}$;
Sec. 13, E $\frac{1}{2}$, E $\frac{1}{2}$ W $\frac{1}{2}$;	Sec. 19, SW $\frac{1}{4}$ NE $\frac{1}{4}$, NW $\frac{1}{4}$ SE $\frac{1}{4}$;
	Sec. 20, SE $\frac{1}{4}$ NW $\frac{1}{4}$, NE $\frac{1}{4}$ SW $\frac{1}{4}$

	Approximate Acreage
<u>Serial Number</u>	<u>of Entire Lease</u>
U-61049	2,036.09

Surface Topography Features

The lease is characterized as having true "Plateau" topography, being a flat-topped plateau elevated above the adjacent desert lands with deeply incised drainages forming steep-walled canyons cutting into the plateau from the east and south.

Geologic Features

The lease lies within the Wasatch plateau coal field which contains mineable coal only within the upper Cretaceous Blackhawk formation. This formation consists of lower tidal-flat and lagoonal intertonguing sandstone, siltstone, mudstone, carbonaceous-shale and coal. Within the lease boundaries two potentially economic coal seams lie within 300 feet above the base of the Starpoint sandstone (Fig. 1). The Hiawatha seam immediately overlies the Starpoint sandstone and is the seam of most interest while the Tank seam resides approximately 300 feet above the Starpoint sandstone. All drill holes are planned to penetrate into the Starpoint sandstone, ensuring penetration of the entire coal-bearing interval.

REGIONAL STRATIGRAPHIC COLUMN

(Modified after Mercier 1984)

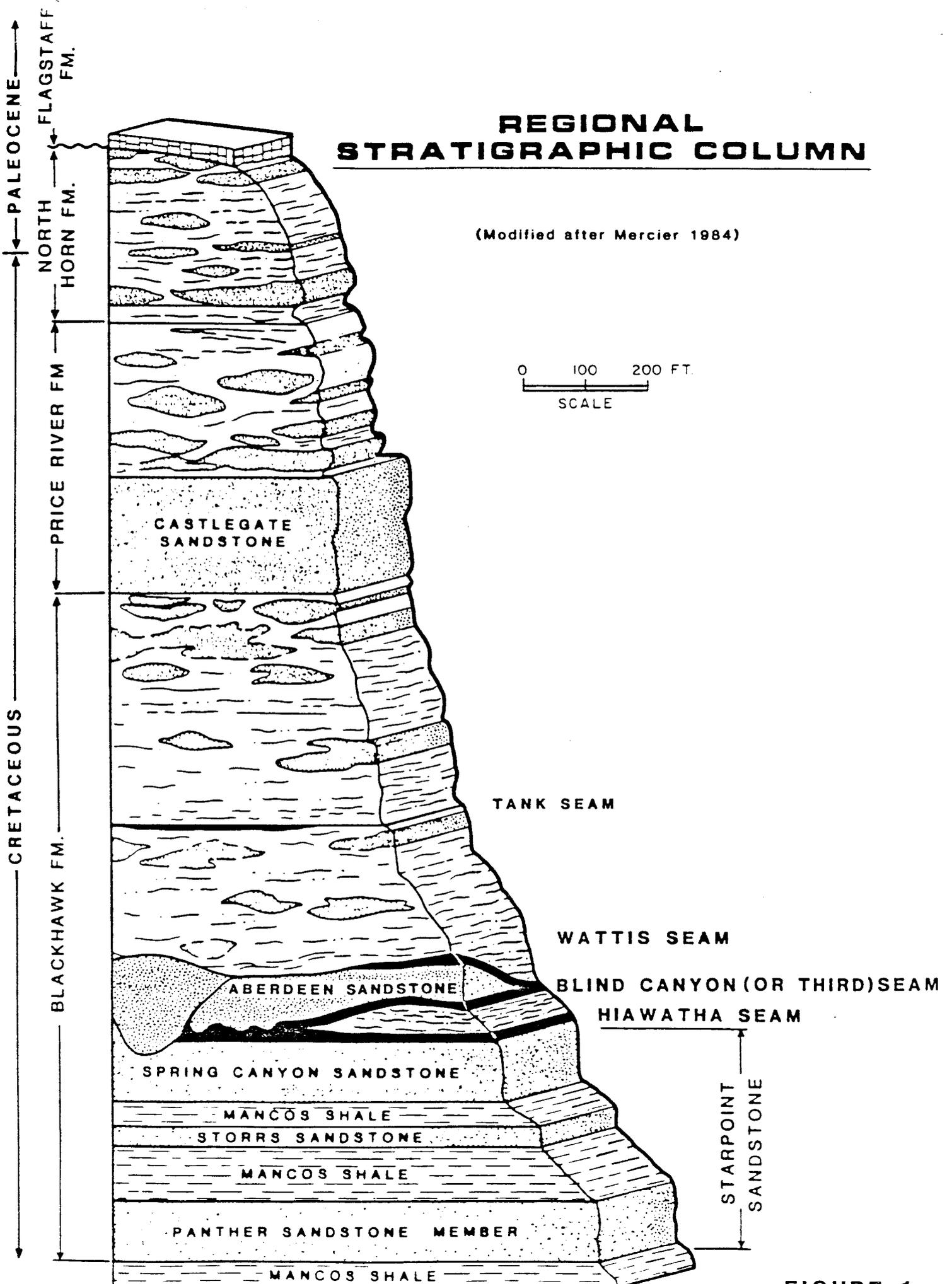


FIGURE 1

Strata within the lease boundary dip gently 3-5° to the south and are cut by only one known fault, the Eastern Boundary Fault of the Bear Canyon graben. The exploration program includes work to delineate any additional faults.

The proposed drilling program is designed to increase subsurface structural control and determine coal quantity and quality.

OTHER PHYSICAL FEATURES

Soils

The lease contains soils derived from sandstone, limestone and shale parent material. The following descriptions are based on SCS Range sites.

Soils associated with the sagebrush plant communities vary from shallow on the ridges to fairly deep at some sites. Water holding capacity is good with a large percent available for plant growth. Texture is moderately fine to moderately coarse and may contain moderate amounts of gravel and stone. Soils are loams, sandy loams and fine sandy loams.

Soils associated with the aspen plant communities are moderately deep to deep sandy loams and clayloams. Organic matter is relatively high with good soil moisture conditions which make soils favorable for plant growth.

Conifer plant communities occur on moderately deep, fine textured soils. The profile is typically noncalcareous with the upper horizons neutral to slightly acid.

Soils associated with the meadow and riparian vegetation types are moderately deep, high in organic matter, poorly drained and acid in reaction. They range from sandy loam to clay with the potential of peat forming in the surface layer. These soils are usually very productive.

Surface Water

There are no streams, lakes, or rivers on the lease. There are drainages which apparently run water during heavy rain storms and thus could be designated ephemeral streams.

Ground Water

Previous drilling, spring monitoring, and mining on lease tracts to the north and west of this lease in very similar geology, and hydrology suggest that only one regional aquifer (Starpoint Aquifer) should be present within the lease boundaries. Small Perched aquifers within the Price River formation are also anticipated and are probably the source for the four identified springs within the lease (93-1429, 93-1430, 93-1431, 93-1433). As indicated in the response to 3482.1(a)(3)(vii), measures will be taken to prevent the intermixing of groundwaters.

Vegetative Cover

The surface of this lease is covered with sage brush, grasses and stands of aspen and conifers.

Threatened or Endangered Species

Species lists for both plants and animals prepared from studies on similar sites in the vicinity of the lease area have been compared to the list prepared under 50 CFR 17.11 and 17.12, Endangered and Threatened Wildlife and Plants, USDI, U.S. Fish and Wildlife Service, January 1982. None of the species identified in the area was found on this list.

Wildlife and Fish

Mammals which may occur in the area include elk, deer, black bear, cougar, bobcat, coyote, badger, porcupine, snowshoe hare, golden mantled squirrel, Uinta ground squirrel, red fox, grey fox, marmot, flying squirrel and other species of small rodents.

The lease is used by deer and elk as summer range. The proposed drill sites are within Utah Division of Wildlife Resources mule deer herd Unit No. 34 and the elk herd is in the Wattis Planning Unit.

Birds that inhabit or frequent the area include the golden eagle, redtailed hawk, rough-legged hawk, goshawk, screech owl, common raven, red-shafted flicker, yellow-bellied sapsucker, robin, mountain bluebird, phaino popla, gray-headed junco, Stellar's jay, mountain chickadee, vesper sparrow, Audubon's warbler, Clark's nutcracker, mourning dove, nuthatches, sparrows and probably various other species.

Reptiles and amphibians of the area probably include: boreal toad, leopard frog, northern sagebrush lizard, Rocky Mountain rubber boa, Great Basin gopher snake and Great Basin rattlesnake.

National Historic Register Sites

Within the lease boundary there are no district, sites, buildings, structures, or objects listed on, or known to be eligible for listing on the National Register of Historic Places.

Cultural or Archaeological

Proper archaeological clearance will be obtained prior to any surface disturbances in full accordance with federal and state codes.

3482.1(a)(3)(iv) A narrative description of the methods to be used to conduct coal exploration, reclamation, and abandonment of operations including, but not limited to -

The proposed coal exploration program will utilize drilling, coring and geophysical logging and surface geophysical surveys as methods of data collection.

Drilling

Data collection will involve rotary drilling and core sampling. Only the coal seams and immediate roof and floor will be core drilled. The overlying material will be plug-drilled to a predetermined core point. The primary equipment for the drilling phase will be a truck-mounted rotary drilling machine. Backup and auxiliary equipment may include but not be

limited to a water truck, a D-8 Caterpillar or similar track-type dozer, a rubber-tired backhoe, an electric generator, personnel trailer, and electric and mechanical geophysical logging equipment. Access by personnel to drilling sites will be by four-wheel drive pick-up truck.

The size of the drill holes will range from 4-3/4 inches in diameter to 9-1/2 inches in diameter. Six or nine inch nominal diameter surface casing will be inserted through the surface alluvium and certain other intervals depending on hole conditions. Approximately 50 feet of core will be recovered per hole. The average depth of the drill holes will be approximately 1500 feet. The following suite of logs is planned to be run on each drill hole: natural gamma, gamma-gamma density, resistivity, caliper, and verticality. When desired, this suite may be expanded to include any or all of the following: sonic, spontaneous potential, dip meter, neutron-neutron, and temperature.

Drill hole locations will require mud pits to be dug to contain the drilling medium. These pits will be constructed to a sufficient size to contain all effluent drilling materials. Pits of this size are estimated to be 12' by 30'. To prevent overflow, the waste pits will be pumped out and the waste fluids will be properly disposed of.

Where possible, all drill hole sites will be located on existing roads and trails. When it is not possible to locate sites on or along these existing facilities, a temporary access trail will be constructed by simply driving overland without removing topsoil. Where it is practical and/or required, topsoil and vegetation will be removed and stored for use in reclamation activities.

Primary access to the proposed drill hole locations is provided by the road over private ground through Mohrland Canyon.

Proposed drill hole PRP-1 (proposed drill hole map and photo in Attachment A) is sited approximately 500 feet from an existing road. Proposed access is via a temporary trail to be created by driving overland, winding

between stands of trees and sage, and not removing topsoil. At the drill site, topsoil would be removed and stockpiled for reclamation.

Proposed drill hole PRP-2 (proposed drill hole map and photo in Attachment A) is sited on an existing road at the edge of a clearing apparently created and used by a previous logging operation. Some sage will need to be cleared but equipment will be positioned to prevent the removal of trees to the extent practical.

Proposed drill hole PRP-3 (proposed drill hole map, and photo in Attachment A) is located alongside an existing road on a sage and grass covered flat.

Reclamation

Each exploration site which requires reclamation will have trash and debris removed, mud pits (at drill locations) backfilled, and topsoil (when removed) distributed upon completion of exploration activity. All roads and trails constructed or used during the exploration program will be rehabilitated. Existing roads will be returned to a condition equal to or better than their condition prior to commencement of the exploration activities. New roads which have been constructed will be leveled or returned to approximate original contour, scarified, and re-seeded once their existence is no longer needed for exploration activities. The seeding of rehabilitated locations and access roads will be accomplished in the first favorable seeding season following completion of the exploration program. The re-establishment of vegetation on reclaimed sites and abandoned roads, after exploration activities are concluded, is the planned method to prevent possible soil erosion.

After the topsoil is re-spread, the surface will be scarified, if necessary. Upon recommendations of the BLM, fertilizer and seed will be applied at the proper mix and rate specified.

Abandonment

3482.1(a)(3)(iv)(A) The types, sizes, numbers, capacity and uses of equipment for drilling and blasting, and road or other access route construction;

The activities and uses of equipment has previously been discussed. The following table describes the equipment expected to be utilized during various phases of the exploration program.

LIST OF EQUIPMENT

Exploration Phase	Types of Equipment	Size or Capacity	Quantity	Comments
Drilling	Rotary Drill Rig	GD2000 or similar	2	All of this equipment will be used only for drilling activities.
	Water Truck	4,000 gal	4	
	Pipe Truck	Dual-axle flat-bed	2	
	Core Trailer	8' x 28'	2	
	Elect. Generator	50 kW	2	
	Travel Trailer	8' x 25'	3	
Support & Reclamation	Bulldozer	D8 Bulldozer or similar	1	All equipment will be rubber tired except the Bulldozer which is track mounted.
	Road Grader	D14 Caterpillar or similar	1	
	Backhoe	Rubber tire Tractor-type	1	
	Fuel Truck	2,000 gal.	1	

3482.1(a)(3)(iv)(B) Excavated earth or debris disposal activities;

All earth excavated in any phase of the proposed exploration activities will be treated the same. Where required, the topsoil will be removed and stockpiles for re-distribution during road and site reclamation. Drainage will be controlled to prevent concentrated runoff across exposed soils. Each site or disturbed area will be reshaped to approximately the original land contours, leaving a roughened surface. The areas will be scarified where compaction has occurred. The reclaimed sites will be prepared to be fertilized and seeded at the earliest suitable times.

All debris and trash will be disposed of properly and in a timely manner. Location of disposal will be completely off the exploration area.

3482.1(a)(3)(iv)(C) The proposed method for plugging drill holes;

Upon completion each hole will be grouted with portland cement from bottom to surface with a single strand of coaxial cable embedded within the grout to form a TDR (Time Domain Refractometry) monitor point. Completion of TDR monitor points are described below under 3482.1(a)(3)(iv)(E).

3482.1(a)(3)(iv)(D) Estimated size and depth of drill holes, trenches and test pits: and;

All of the proposed drill holes are estimated to be approximately 1500 feet deep. The diameter of drill holes will vary depending on hole conditions, the range will be 4-3/4 inches to 9-1/2 inches.

3482.1(a)(3)(iv)(E) Plans for transfer and modification of exploration drill holes to be used as surveillance, monitoring, or water wells.

Every drill hole will be converted to a TDR (Time Domain Refractometry) monitoring sites. Diagrams showing completion method are shown on Figures 2 and 3 respectively. TDR monitor sites are constructed by placing an approximately 1/2 inch diameter coaxial cable full length of the hole, then grouting the entire hole from top to bottom with portland cement. When the grout hardens, the cable and grout become part of the strata; and the cable breaks as caving occurs above longwall panels. This reference constitutes a written request for permission to utilize the drill holes as monitoring points pursuant to 43 CFR 3484.1(a)(5); and elicits a specific written approval of same.

3482.1(a)(3)(v) An estimated timetable for conducting and completing each phase of the exploration, drilling and reclamation.

PROPOSED MONITOR WELL LOCK SYSTEM

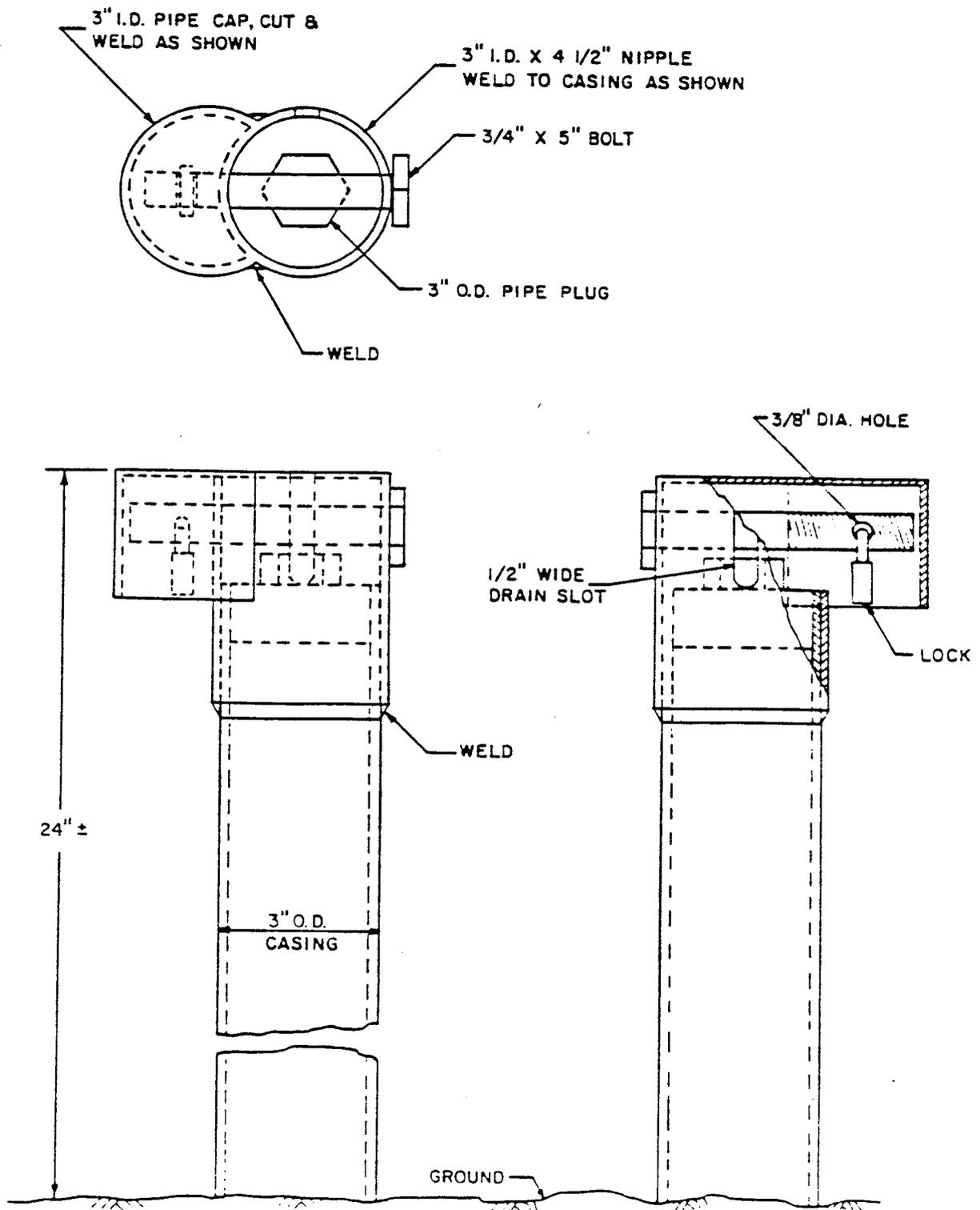


FIGURE 2

COMPLETION DIAGRAM

TDR MONITOR-WELL

MOHRLAND PROJECT

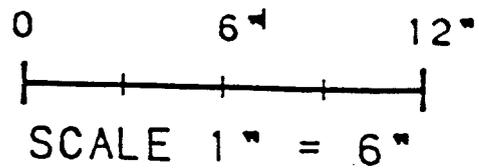
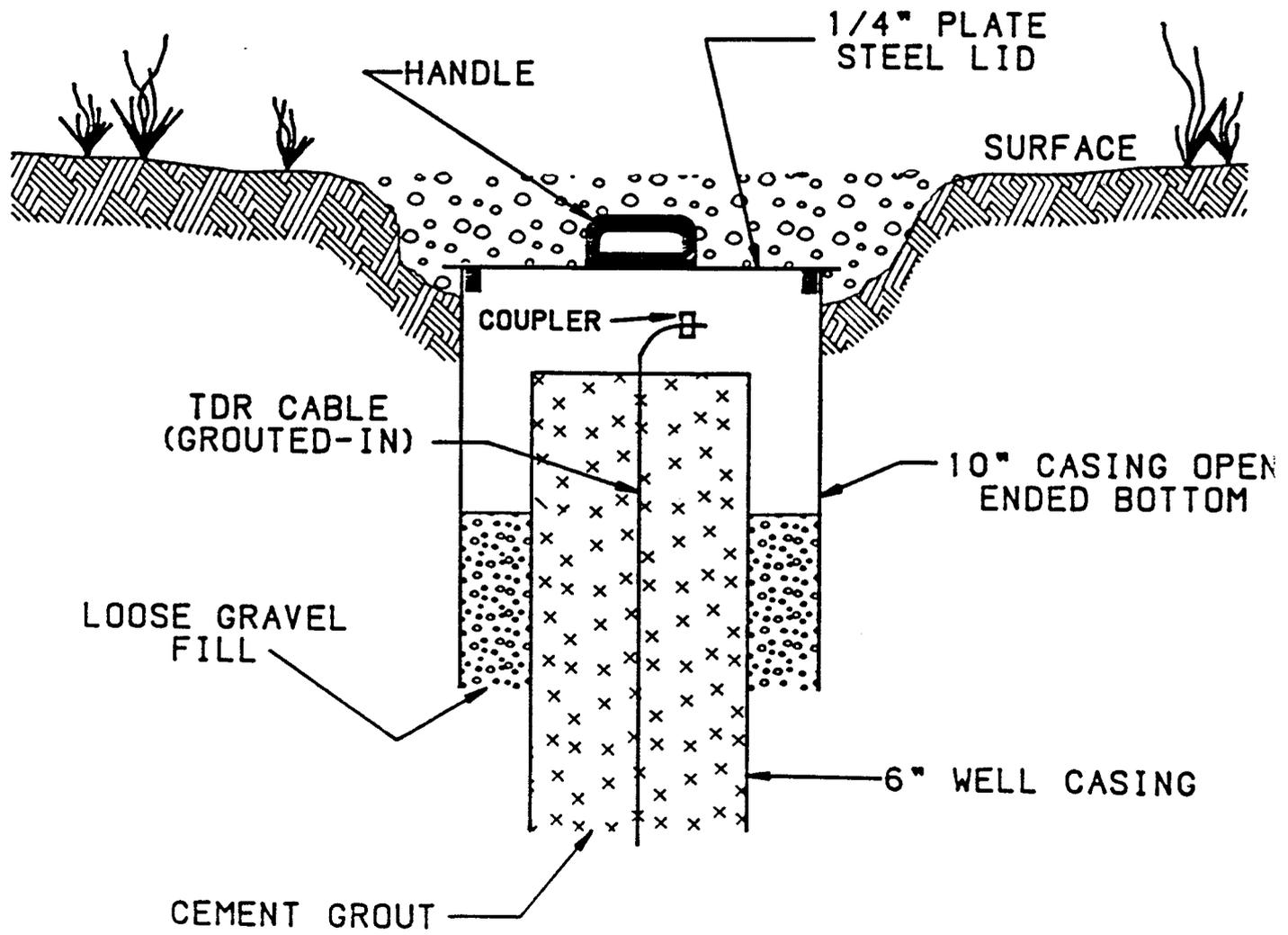


FIGURE 3

The proposed exploration program is scheduled to begin in July 1991. Current plans allow for both phases of the program to run concurrently. It is expected that the reclamation will require the longest amount of time to complete. The following bar graph demonstrates the estimated time schedule for each phase of the proposed program.

PHASE OF <u>EXPLORATION</u>	<u>JULY</u>				<u>AUGUST</u>				<u>SEPTEMBER</u>				<u>OCTOBER</u>			
	WEEK				WEEK				WEEK				WEEK			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Drilling	*****															
Reclamation	*****															

The total exploration plan, which includes re-seeding, can be completed in approximately 15 weeks, providing that there are no unforeseen delays.

3482.1(a)(3)(vi) The estimated amounts of coal to be removed during exploration, a description of the method to be used to determine those amounts, and the proposed use of the coal removed.

The proposed exploration plan calls for three (3) drill holes. Three inch diameter coal core will be removed from each of the two seams in each hole. It can be assumed that substantially less than a total of one ton of coal will be removed throughout the entire proposed program.

The coal that will be removed will be used for quality and geotechnical testing. The results of these tests will aid in property evaluation, underground mine design and future exploration planning.

3482.1(a)(3)(vii) A description of the measures to be used during exploration for federal coal to comply with the performance standards for exploration (3481.1(a) and

applicable requirements of 30 CFR 815.15 or an approved state program.

3484.1(a)(2)

The operator/lessee, if required by the authorized officer, shall set and cement casing in the hole and install suitable blowout prevention equipment when drilling on lands valuable or prospectively valuable for oil, gas, or geothermal resources.

If required by the authorized officer, casing will be set and cemented in the hole and suitable blowout prevention equipment will be installed. The area and depth of proposed exploration is such that the prospective value of oil, gas or geothermal resources is not anticipated.

3484.1(a)(3)

All exploration drill holes must be capped with at least 5 feet of cement and plugged with a permanent plugging material that is unaffected by water and hydrocarbon gases and will prevent the migration of gases and water in the drill hole under normal hole pressures. For exploration holes drilled deeper than stripping limits, the operator/lessee, using cement or other suitable plugging material approved by the authorized officer shall plug the hole through the thickness of the coal bed(s) or mineral deposits(s) and through aquifers for a distance of at least 50 feet above and below the coal bed(s) or mineral deposit(s) and aquifers, or to the bottom of the drill hole. A lesser cap or plug may be approved by the authorized officer. Exploration activities shall be managed to prevent water pollution and mixing of ground and surface waters and ensure the safety of people, livestock, and wildlife.

The possibility of contamination of surface waters by drilling materials is extremely low, adequate precautionary measures to prevent the escape of drilling materials into stream drainages can be incorporated into

individual site designs. The potential for contamination of surface waters can be minimized by constructing waste pits of sufficient size to contain all effluent drilling materials. To prevent overflow, the waste pits will be pumped out and waste fluids will be disposed of properly. Waste pits will be lined if percolation of fluids through the walls into stream drainages appears possible.

The potential of intermixing of groundwaters and raising or lowering of certain aquifers could possibly result in exploration utilizing deep drill holes. To minimize these effects, the drill hole plugging requirements of the BLM and 43 CFR 3484.1(a)(3) will be strictly adhered to.

3484.1(a)(4) The operator/lessee shall retain for one (1) year, unless a shorter time period is authorized by the authorized officer, all drill and geophysical logs and shall make such logs available for inspection or analysis by the authorized officer, if requested. The authorized officer, at his discretion, may require the operator/lessee to retain representative samples of drill cores for one (1) year. Confidentiality of such information will be accorded pursuant to the provisions of § 3481.3 of this title.

Drill and geophysical logs as well as representative core samples obtained from the proposed exploration program will be available for inspection or analysis by the authorized officer for one year.

3484.1(a)(5) The operator/lessee may utilize exploration drill holes as surveillance wells for the purpose of monitoring the effects of subsequent operations on the quantity, quality, or pressure of groundwater or mine gases only with the written approval of the authorized officer, in consultation with the regulatory authority. The operator/lessee may convert exploration drill holes to water wells only after approval of the operator/lessee's

written request by the authorized officer and the surface owner or authorized officer in consultation with the regulatory authority. All such approvals shall be accompanied by a corresponding transfer of responsibility for any liability including eventual plugging, reclamation, and abandonment. Nothing in this paragraph shall supersede or affect the applicability of any state law requirements for such a transfer, conversion, or utilization as a supply for domestic consumption.

3484.1(a)(5)

Refer to response to 3482.1(a)(3)(iv)(E).

3482.1(a)(3)(viii)

A map at a scale of 1:24,000 or larger showing the areas of land to be affected by the proposed exploration and reclamation. The map shall show existing roads, occupied dwellings and pipelines; proposed location of trenches, roads, and other access routes and structures to be constructed; applicable federal lease and license boundaries; the location of land excavating to be conducted; coal exploratory holes to be drilled or altered; earth or debris-disposal areas; exiting bodies of surface water; and topographic and drainage features.

Attached to this application is a map at a scale of 1:24,000 showing the requested information (proposed drill hole locations).

3482.1(a)(3)(ix)

The name and address of the owner of record of the surface land, if other than the United States. If the surface is owned by a person other than the applicant or if the federal coal is leased to a person other than the applicant, a description of the basis upon which the applicant claims the right to enter that land for the purpose of conducting exploration and reclamation.

U. S. Department of Agriculture
Forest Service
Manti-LaSal National Forest
Price District Ranger
599 West Price River Drive
Price, UT 84501

3482.1(a)(3)(x) Such other data as may be required by the authorized officer.

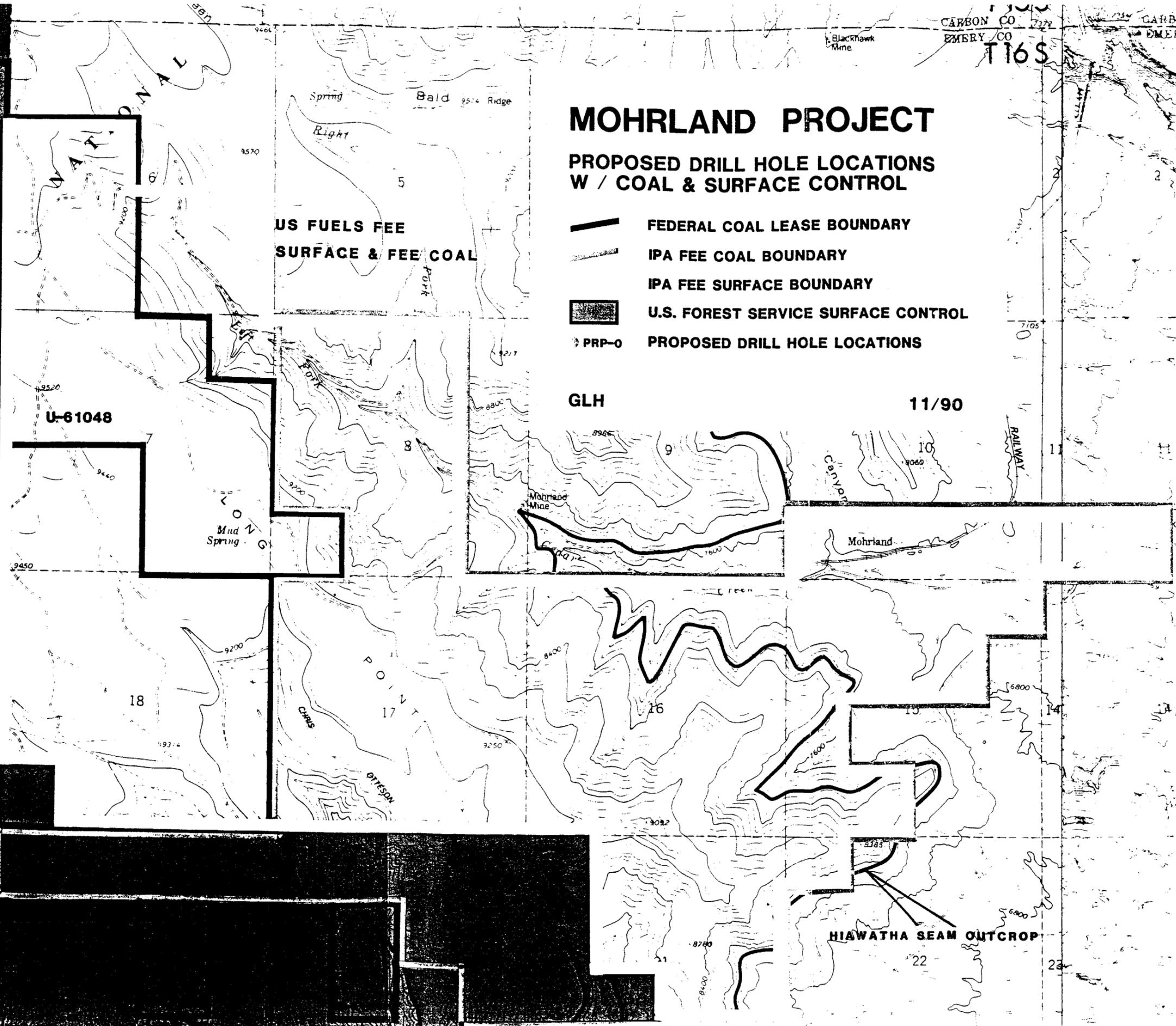
Other data that may be required will be made available as soon as possible upon the request of the BLM.

T16S

MOHRLAND PROJECT

PROPOSED DRILL HOLE LOCATIONS W / COAL & SURFACE CONTROL

-  FEDERAL COAL LEASE BOUNDARY
-  IPA FEE COAL BOUNDARY
-  IPA FEE SURFACE BOUNDARY
-  U.S. FOREST SERVICE SURFACE CONTROL
-  PRP-0 PROPOSED DRILL HOLE LOCATIONS



Attachment A

CAPTIONS FOR COLOR PHOTOGRAPHS OF
PROPOSED DRILL HOLE LOCATIONS TAKEN
NOVEMBER 1990

PRP 1, VIEW N-NE; Approximately 600 ft. of access road will be required.

PRP 2, VIEW N; Some sage brush will need to be cleared. Note truck is parked in clearing apparently created by loggers; this could be a good site to park equipment.

PRP 3, VIEW N-NE; Site is adjacent to road.

PRP-1



PRP-2



PRP-3



United States
Department of
Agriculture

Forest
Service

Manti-La Sal
National Forest

59. West Price River Dr.
Price, Utah 84501

Reply to: 2820

Date: July 16, 1991

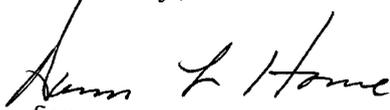
Pamela Grubaugh-Littig
Permit Supervisor
Division of Oil Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Dear Pam:

I have decided to recommend to the Bureau of Land Management the approval of a three-hole coal exploration drilling project on south Gentry Mountain. Enclosed is a copy of the associated decision document with attachments for your records.

Don't hesitate to contact this office at the above address or by calling (801) 637-2817 if you have any questions or require further information.

Sincerely,



for
GEORGE A. MORRIS
Forest Supervisor

Enclosure

RECEIVED

JUL 18 1991

DIVISION OF
OIL GAS & MINING

DECISION MEMO

CYPRUS COAL COMPANY, THREE-HOLE COAL EXPLORATION
DRILLING PROGRAM

FEDERAL COAL LEASE U-61049
PRICE RANGER DISTRICT
MANTI-LA SAL NATIONAL FOREST
EMERY COUNTY, UTAH

Cyprus Coal Company (Cyprus) has applied to the Bureau of Land Management (BLM) to conduct a three hole coal exploration drilling program on Forest Service administered lands within Federal Coal Lease U-61049. Pursuant to established procedures, the BLM has requested that the Forest Service conduct an environmental analysis since these lands are within the administrative boundary of the Manti-La Sal National Forest. Existing Forest Development Roads and roads on the private surface estate will be used to access the project area. The operator has obtained a Road-Use Permit from the Forest Service authorizing commercial use of Forest Development Roads and permission from the private land owner to use their roads. The application and operating plan contained in the case file fully explain the proposal. Also see attached maps.

I have decided to recommend approval to the BLM of the action as proposed and amended by Cyprus with application of the attached Forest Service special stipulations. Through project scoping, the Forest Service has determined that there are no unmitigated issues for the project. This type of coal exploratory drilling is a routine practice on the Wasatch Plateau. Many holes have been drilled on the Price Ranger District in the past, with no resource damage, and the sites have been successfully rehabilitated. The proposed action would then fall within Category 5, of Section 26.2 (mineral and energy activity with limited size, duration, and degree of disturbance) and no extraordinary circumstances exist that might cause the action to have significant effects; therefore, the action is categorically excluded from documentation in an environmental impact statement or an environmental assessment (FSH 1909.15 Section 26). The Forest Service has determined that there would be no adverse impacts to Forest Service administered lands and that there would be no impact to Threatened, Endangered, or Sensitive species.

This project is consistent with the management directions, including standards and guidelines, in the Manti-La Sal National Forest Land and Resource Management Plan (pages III-4, III-12, and III-34 through III-36). The management prescription of the sites is for forage production. Mineral activities are allowed with mitigation to assure continued livestock access and use.

There are no known prime or unique farmlands, wetlands, timber lands, rangelands, or alluvial valley floors within the lease area. There will be no impacts to floodplains, cultural resources, or Threatened, Endangered or Sensitive floral or faunal species.

The project can be implemented no sooner than seven days following publication of this decision in the Sun Advocate.

This decision is subject to administrative review in accordance with 36 CFR 217. Any appeal of this decision must include the information required by 36 CFR 217.9 (content of a notice of appeal), including the reasons for appeal. Two (2) copies of the Notice of Appeal must be filed with Gray Reynolds, Regional Forester, 324 25th Street, Ogden, Utah 84401 within 45 days of the date specified in the Legal Notice published in the Price Sun Advocate.

If you have concerns about this decision, please contact me so that I can hear and discuss those concerns with you. My phone number is (801) 637-2817.

Approved by: George A. Morris
for
GEORGE A. MORRIS
Forest Supervisor

Date: July 16, 1991

APPENDIX A

STIPULATIONS

Stipulations to be included in the Coal Drilling Permit/License

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/licensee who is aware of the terms and conditions of the project permits/licenses. A copy of the appropriate permits/licenses 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 alternations 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 or mufflers. Spark arresters must meet Forest Service specifications discussed in the "General Purpose and Locomotive (GP/L) Spark Arrestor Guide, Volume 1, April, 1988"; and Multi-position Small Engine (MSE) Spark Arrestor Guide, Volume 2, April, 1988. In addition, all electrical equipment must be properly insulated to prevent sparks.
9. The permittee/licensee 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 Utah State water laws. The location of diversions, if on National Forest System lands, is subject to Forest Service review and approval. Water diversion structures, if needed must be constructed as specified by the Forest Service.
12. Unauthorized off-road vehicular travel is prohibited.
13. 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. Replacement will be done by the proper authority at the expense of the permittee/licensee.
14. 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.
15. Gates must be closed by the permittee after entry unless otherwise notified.
16. The permittee/licensee will be held responsible for all damage to fences, cattleguards, resource improvements, roads, and other structures on National Forest System lands which result from their operations. The Forest Service must be notified of damages as soon as possible.
17. Operations must be coordinated with grazing permittees to prevent conflicts.
18. Harrassment of wildlife and livestock is prohibited.
19. Topsoil must be stripped from areas occupied by parked vehicles and mud pits and stockpiled for use during reclamation. Topsoil stockpiles will be located to minimize contamination or loss. Rock material will be stockpiled seperately.
20. Drill pads will be designed to prevent or diminish overland flow from entering the site during precipitation events. Pad sites will be sloped to drain all spills and on-sites precipitation into the mud pits. If necessary, pits will be pumped out to reduce their content and insure that overflow does not occur. Fluids will be disposed off Forest at a Utah State approved disposal site.
21. All drilling fluids, mud and cuttings must be contained on the project site in mud pits or portable containers. 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.

22. During the drilling operations all trash, garbage and other refuse must be properly contained on the project prior to disposal at authorized sites.
23. All significant water encountered during drilling must be reported to the Forest Service, including the depth and formation at which it was encountered, and an estimate of the flow.
24. If any of the drill holes encounter artesian groundwater flow, the District Ranger must be notified prior to plugging the hole to determine whether or not the Forest Service would elect to establish a permanent water development at the site.
25. All drill holes must be plugged in accordance with Federal and State regulations.
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. Disturbed areas must be reclaimed by the end of the field season. Exceptions require Forest Service approval.
28. Drill rigs and heavy equipment (not including water trucks) must not be transported on or off Gentry Mountain area during the opening of the general elk hunt nor during the opening weekend of the general deer hunt. Water trucks must be preceded by a pilot vehicle when hauling water for the project during the hunting season.
29. Contaminated soil and gravel must be stripped and placed in the mud pit prior to site reclamation.
30. Mud pits must be allowed to dry or pumped before they are backfilled and reclaimed. If pumped, fluids will be disposed off Forest, at a Utah State approved site. They must be enclosed by a 4-strand barbed wire fence while they are left to dry.
31. Drill sites, roads to be obliterated, and mud pits when they are dry, must be reclaimed by selectively backfilling excavated materials, topsoil last, such that the disturbed area is replaced to approximate original contour. The disturbed area must be seeded with the specified seed mix.
32. Upon completion of the project, compacted soils must be scarified and seeded with the specified seed mix.
33. All disturbed drainages must be replaced to their approximate original configuration when the project area is reclaimed.
34. The reclaimed roads must be signed and blocked off to discourage vehicle access by the public.
35. Reclamation efforts will be diligently pursued to insure that a minimum ground cover is established on all disturbed areas which is equal to or greater than the surrounding undisturbed areas.

36. Seeding will be done with the following certified seed mix:

Species	pounds/acre
Intermediate Wheatgrass - Agropyron intermedium	3
Orchard Grass - Dactylis glomerata	2
Slender Wheatgrass - Agropyron trachycaulum	3
Smooth brome - Bromus inermus	3
Crested Wheatgrass - Agropyron cristatum	2
Ladak Alfalfa - Medicago sativa ladak	1
Yellow Sweet Clover - Melilotus officinalis	1
Small Burnett - Sanguisorba minor	1
Perennial Ryegrass - Lolium perenne	1

This seed mixture must be 99 percent pure live seed containing a maximum of 1% weeds none of which are noxious.

37. The operator will be held liable for control of noxious weed infestations found to be a result of this drilling operation. % sound) will be purchased by the permittee at appraised rates and removed from the area. Timber not meeting sawlog utilization standards but which is suitable for fuelwood will be cut into four foot lengths and decked at a location that is accessible to the public.
38. Outside berms will not be constructed on any roads.
39. Heavy equipment may not be moved on Forest Development Roads on the following dates; July, 24-26, September 5-7. If the project should continue into 1992, restricted dates will be determined at that time.
40. 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

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

T10S
T11S
T12S
T13S
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T17S
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T10S
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T19S
T20S
T21S

MANTI-LASAL NATIONAL FOREST
MANTI DIVISION
UTAH
SALT LAKE MERIDIAN
1930'
SCALE

- LEGEND**
- NATIONAL FOREST BOUNDARY
 - ADJACENT NON-FOREST BOUNDARY
 - MAIN MOTOR HIGHWAY
 - OPEN MOTOR ROAD
 - POOR MOTOR ROAD
 - TRAIL
 - RAILROAD
 - TELEPHONE LINE
 - UNDEVELOPED WILDERNESS
 - DISTANCE RANGED STATION
 - STAKE OR RANGED STATION NOT PERMANENTLY OCCUPIED
 - COMMUNICATION STATION
 - FOREST SERVICE BUILDINGS
 - HOUSE, COTTAGE OR OTHER BUILDING
 - WOOD OR BRUSH
 - ELECTRIC POWER STATION

**CYPRUS-PLATERAU'S
PROPOSED COAL
EXPLORATION DRILLING
ENTRY MOUNTAIN**

**PROJECT
LOCATION**



Spring

Bald 9314 Ridge

SHADED AREA IS FEDERAL SURFACE AND COAL. UNSHADED AREA WITHIN LEASE U-61049 IS FEDERAL COAL WITH THE SURFACE BEING OWNED BY THE INTERMOUNTAIN POWER AGENCY (I.P.A).

U-61048

U-61049

PROPOSED BY THE INTERMOUNTAIN POWER AGENCY
NOT INCLUDED IN THIS AREA

Stud Spring

18

17

POINT

CHINESE

DIVISION

19

20

21

3482
U-61049
(U-065c)

Noah District
Price Coal Office
900 North 700 East
Price, Utah 84501

RECEIVED

JUN 24 1991

JUN 26 1991

DIVISION OF
OIL GAS & MINING

Mr. Gregory L. Hunt
Cyprus Coal Company
9100 East Mineral Circle
Post Office Box 3299
Englewood, Colorado 80155

Dear Mr. Hunt:

Cyprus Coal Company's 1991 coal exploration drilling plan for Federal coal lease U-61049, I.P.A. surface only, is approved as submitted subject to the following conditions:

1. All drill holes will be properly sealed in accordance with the enclosed drilling stipulations.
2. A road-use permit for Forest Development Roads must be obtained from the Forest Service before any work begins.
3. The present lease bond is \$7,000.00. We will require that the lease bond be increased to \$42,000.00 to cover plugging and abandonment.

An approved copy of the exploration plan is attached. Tom Rasmussen (801-637-4584 or 303-243-3262) of my staff will be the Bureau of Land Management's (BLM) point of contact for any questions and notifications.

Sincerely yours,

Gary Johnson
for

Bill Stringer,
Assistant District Manager,
Mineral Resources

Enclosures (2)
1-Drilling Stipulations
2-Approved Plan

cc: DM, Noah (U-065), w/encl.
SO, Utah (U-991), w/encl.
DOCM, Salt Lake City, w/encl.

TRasmussen:tr:svo:6/24/91
Wang 2132D

COAL EXPLORATION DRILLING STIPULATIONS
CYPRUS COAL COMPANY

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 8 I.
4. Upon completion of down-hole procedures, all drill holes shall be properly sealed by emplacing cement through tubing from the bottom of the hole to the collar to prevent rock fracturing. Any variance from the procedures itemized below must be approved in advance by the Chief of the Price Coal Office.
5. 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.
6. 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.
7. 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.

8. Upon completion of exploration activities, two reports as required by 43 CFR 3485.1 shall be submitted to the Chief of the Price Coal Office, Moab District. 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 District Manager.

H. Hydrologic reports using the attached form.

9. An individual lease or license bond in the amount of \$35,000.00, determined by the Price Coal Office, shall be filed with the State Office before commencement of exploration activities. The bond shall be used as required to cover costs incurred by the BLM to correct any violation of these stipulations.

1980
10/1/80

EXPLORATION PLAN

FEDERAL COAL LEASE

APPROVED

EXPLORATION PLAN
FEDERAL COAL LEASE
U-61049
EMERY COUNTY, UTAH
I.P.A. SURFACE

CYPRUS COAL COMPANY
Operator For
INTERMOUNTAIN POWER AGENCY

DECEMBER 1990

INTRODUCTION

APPROVED

This Exploration Plan has been prepared by Cyprus Coal Company ("Cyprus") (a Delaware corporation) acting as operator for IPA (Intermountain Power Agency, a political subdivision of the state of Utah) for this exploration project. Pursuant to 43 CFR 3480.0-5(27) Cyprus will be operating under a written agreement with IPA.

The federal coal lease for which this exploration plan has been prepared is not contained within an approved permit area and therefore the format utilized follows that of 43 CFR (10-1-86, edition) Subpart 3482. The appropriate regulation is referenced and underlined and Cyprus' response follows.

Five copies of this plan are herewith submitted to the Moab, Utah BLM office.

The information contained in this exploration plan demonstrates that environmental protection and reclamation are integral parts of the proposed exploration program and that reclamation will progress as contemporaneously as practical with the program. Sufficient information is provided in the exploration plan to substantiate the effectiveness of Cyprus' proposed reclamation method.

3482.1(a)(3) Exploration plans shall contain all of the following:

3482.1(a)(3)(i) The name, address, and telephone number of the applicant, and, if applicable the operator/lessee of record.

Applicant and Operator:
Cyprus Coal Company
9100 East Mineral Circle
Post Office Box 3299
Englewood, Colorado 80155
Telephone: 303/643-5100

APPROVED

Lessee of Record:

Attention: Michael J. Nosanov
Department of Water and Power
the City of Los Angeles
(Operating Agent for
Intermountain Power Agency)
111 North Hope Street
Box 111
Los Angeles, CA 90051-0100
Telephone: (213) 481-5810

3482.1(a)(3)(ii)

The name, address, and telephone number of the applicant who will be representing and be responsible for conducting the exploration.

Gregory L. Hunt
Cyprus Coal Company
9100 East Mineral Circle
Post Office Box 3299
Englewood, Colorado 80155
Telephone: (303) 643-5071

3482.1(a)(3)(iii)

A narrative description of the proposed exploration area, cross-referenced to the map required under paragraph (a)(3)(viii) of this section, including applicable federal lease and license serial numbers; surface topography; geologic, surface water, and other physical features; vegetative cover; endangered or threatened species listed pursuant to the Endangered Species Act of 1973 (16 U.S.C. 1531, et seq.); districts, sites, buildings, structures, or objects listed on, or eligible for listing on, the National Register of Historic Places; and known cultural or archeological resources located within the proposed exploration area.

Federal Lease

This exploration plan encompasses that portion of federal coal lease U-61049 where the surface is controlled by IPA (Intermountain Power Agency).

Legal Description of Entire Lease

Refer to the proposed drill hole locations map; attached, for portion of the lease covered by this exploration plan.

T. 16S., R. 7E., SLM, Utah

Sec. 1, lot 2, SW $\frac{1}{4}$ NE $\frac{1}{4}$, W $\frac{1}{2}$ SE $\frac{1}{4}$;

Sec. 12, W $\frac{1}{2}$ NE $\frac{1}{4}$, E $\frac{1}{2}$ W $\frac{1}{4}$ SE $\frac{1}{4}$;

Sec. 13, E $\frac{1}{2}$, E $\frac{1}{2}$ W $\frac{1}{2}$;

T. 16S., R. 8E., SLM, Utah

Sec. 7, lots 3 and 4, E $\frac{1}{2}$ SW $\frac{1}{4}$;

Sec. 18, LOTS 1-4, E $\frac{1}{2}$, E $\frac{1}{2}$ W $\frac{1}{2}$;

Sec. 19, SW $\frac{1}{4}$ NE $\frac{1}{4}$, NW $\frac{1}{4}$ SE $\frac{1}{4}$;

Sec. 20, SE $\frac{1}{4}$ NW $\frac{1}{4}$, NE $\frac{1}{4}$ SW $\frac{1}{4}$

	Approximate Acreage
<u>Serial Number</u>	<u>of Entire Lease</u>
U-61049	2,036.09

Surface Topography Features

The lease is characterized as having true "Plateau" topography, being a flat-topped plateau elevated above the adjacent desert lands with deeply incised drainages forming steep-walled canyons cutting into the plateau from the east and south.

Geologic Features

The lease lies within the Wasatch plateau coal field which contains mineable coal only within the upper Cretaceous Blackhawk formation. This formation consists of lower tidal-flat and lagoonal intertonguing sandstone, siltstone, mudstone, carbonaceous-shale and coal. Within the lease boundaries two potentially economic coal seams lie within 300 feet above the base of the Starpoint sandstone (Fig. 1). The Hiawatha seam immediately overlies the Starpoint sandstone and is the seam of most interest while the Tank seam resides approximately 300 feet above the Starpoint sandstone. All drill holes are planned to penetrate into the Starpoint sandstone, ensuring penetration of the entire coal-bearing interval.

REGIONAL STRATIGRAPHIC COLUMN

(Modified after Mercier 1984)

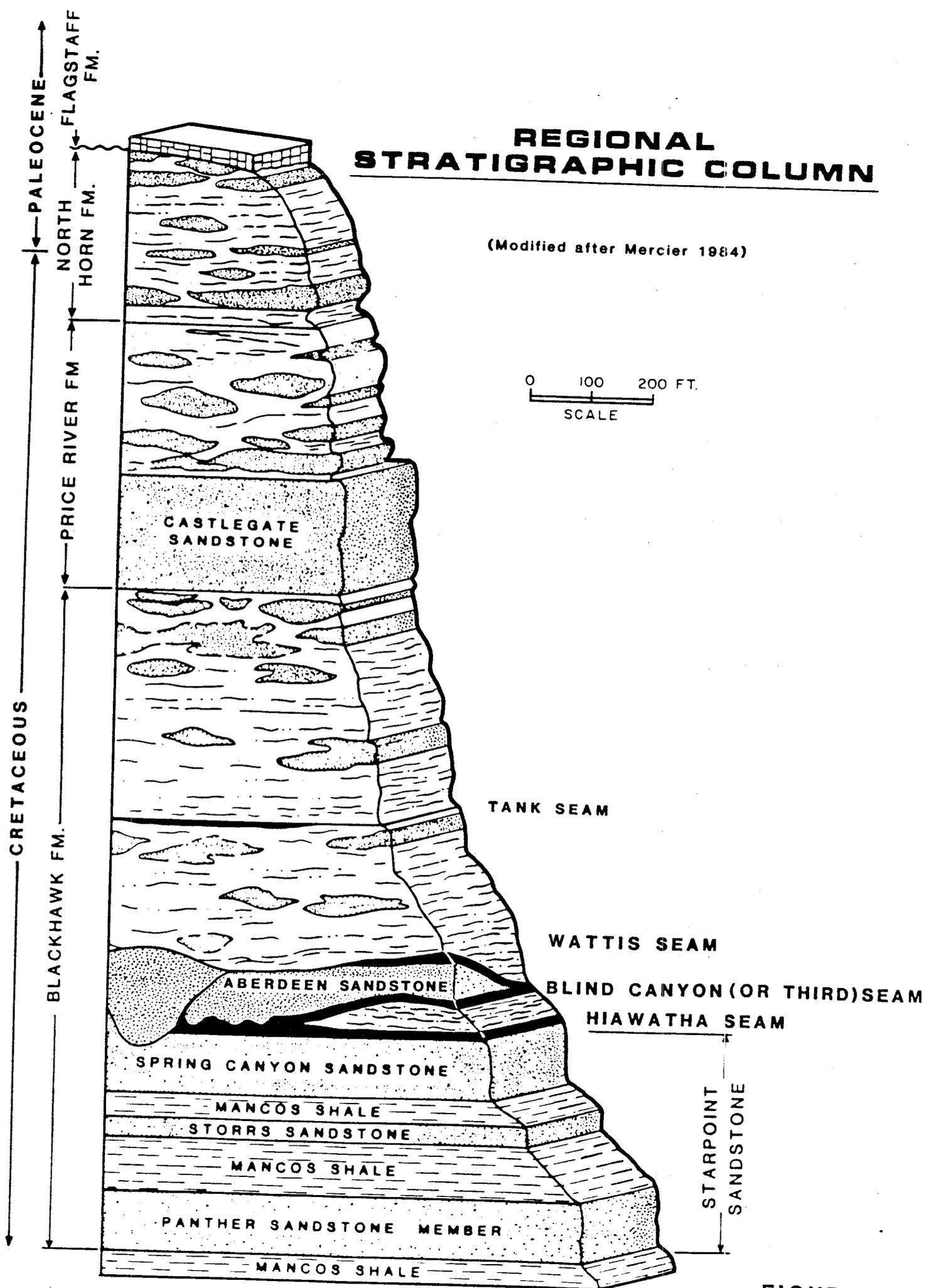


FIGURE 1

Strata within the lease boundary dip gently 3-5° to the south and are cut by only one known fault, the Eastern Boundary Fault of the Bear Canyon graben. The exploration program includes work to delineate any additional faults.

The proposed drilling program is designed to increase subsurface structural control and determine coal quantity and quality.

OTHER PHYSICAL FEATURES

Soils

The lease contains soils derived from sandstone, limestone and shale parent material. The following descriptions are based on SCS Range sites.

Soils associated with the sagebrush plant communities vary from shallow on the ridges to fairly deep at some sites. Water holding capacity is good with a large percent available for plant growth. Texture is moderately fine to moderately coarse and may contain moderate amounts of gravel and stone. Soils are loams, sandy loams and fine sandy loams.

Soils associated with the aspen plant communities are moderately deep to deep sandy loams and clayloams. Organic matter is relatively high with good soil moisture conditions which make soils favorable for plant growth.

Conifer plant communities occur on moderately deep, fine textured soils. The profile is typically noncalcareous with the upper horizons neutral to slightly acid.

Soils associated with the meadow and riparian vegetation types are moderately deep, high in organic matter, poorly drained and acid in reaction. They range from sandy loam to clay with the potential of peat forming in the surface layer. These soils are usually very productive.

Surface Water

There are no streams, lakes, or rivers on the lease. There are drainages which apparently run water during heavy rain storms and thus could be designated ephemeral streams.

Ground Water

Previous drilling, spring monitoring, and mining on lease tracts to the north and west of this lease in very similar geology, and hydrology suggest that only one regional aquifer (Starpoint Aquifer) should be present within the lease boundaries. Small Perched aquifers within the Price River formation are also anticipated and are probably the source for the four identified springs within the lease (93-1429, 93-1430, 93-1431, 93-1433). As indicated in the response to 3482.1(a)(3)(vii), measures will be taken to prevent the intermixing of groundwaters.

Vegetative Cover

The surface of this lease is covered with sage brush, grasses and stands of aspen and conifers.

Threatened or Endangered Species

Species lists for both plants and animals prepared from studies on similar sites in the vicinity of the lease area have been compared to the list prepared under 50 CFR 17.11 and 17.12, Endangered and Threatened Wildlife and Plants, USDI, U.S. Fish and Wildlife Service, January 1982. None of the species identified in the area was found on this list.

Wildlife and Fish

Mammals which may occur in the area include elk, deer, black bear, cougar, bobcat, coyote, badger, porcupine, snowshoe hare, golden mantled squirrel, Uinta ground squirrel, red fox, grey fox, marmot, flying squirrel and other species of small rodents.

The lease is used by deer and elk as summer range. The proposed drill sites are within Utah Division of Wildlife Resources mule deer herd Unit No. 34 and the elk herd is in the Wattis Planning Unit.

Birds that inhabit or frequent the area include the golden eagle, redtailed hawk, rough-legged hawk, goshawk, screech owl, common raven, red-shafted flicker, yellow-bellied sapsucker, robin, mountain bluebird, phaino popla, gray-headed junco, Stellar's jay, mountain chickadee, vesper sparrow, Audubon's warbler, Clark's nutcracker, mourning dove, nuthatches, sparrows and probably various other species.

Reptiles and amphibians of the area probably include: boreal toad, leopard frog, northern sagebrush lizard, Rocky Mountain rubber boa, Great Basin gopher snake and Great Basin rattlesnake.

National Historic Register Sites

Within the lease boundary there are no district, sites, buildings, structures, or objects listed on, or known to be eligible for listing on the National Register of Historic Places.

Cultural or Archaeological

Proper archaeological clearance will be obtained prior to any surface disturbances in full accordance with federal and state codes.

3482.1(a)(3)(iv) A narrative description of the methods to be used to conduct coal exploration, reclamation, and abandonment of operations including, but not limited to -

The proposed coal exploration program will utilize drilling, coring and geophysical logging and surface geophysical surveys as methods of data collection.

Drilling

Data collection will involve rotary drilling and core sampling. Only the coal seams and immediate roof and floor will be core drilled. The overlying material will be plug-drilled to a predetermined core point. The primary equipment for the drilling phase will be a truck-mounted rotary drilling machine. Backup and auxiliary equipment may include but not be

limited to a water truck, a D-8 Caterpillar or similar track-type dozer, a rubber-tired backhoe, an electric generator, personnel trailer, and electric and mechanical geophysical logging equipment. Access by personnel to drilling sites will be by four-wheel drive pick-up truck.

The size of the drill holes will range from 4-3/4 inches in diameter to 9-1/2 inches in diameter. Six or nine inch surface casing will be inserted through the surface alluvium and certain other intervals depending on hole conditions. Approximately 50 feet of core will be recovered per hole. The average depth of the drill holes will be approximately 1500 feet. The following suite of logs is planned to be run on each drill hole: natural gamma, gamma-gamma density, resistivity, caliper, and verticality. When desired, this suite may be expanded to include any or all of the following: sonic, spontaneous potential, dip meter, neutron-neutron, and temperature.

Drill hole locations will require mud pits to be dug to contain the drilling medium. These pits will be constructed to a sufficient size to contain all effluent drilling materials. Pits of this size are estimated to be 12' by 30'. To prevent overflow, the waste pits will be pumped out and the waste fluids will be properly disposed of.

Where possible, all drill hole sites will be located on existing roads and trails. When it is not possible to locate sites on or along these existing facilities, a temporary access trail will be constructed by simply driving overland without removing topsoil. Where it is practical and/or required, topsoil and vegetation will be removed and stored for use in reclamation activities.

Primary access to the proposed drill hole locations is provided by the road over private ground through Mohrland Canyon.

Proposed drill hole PRP-4 (proposed drill hole map and photo in Attachment A) is located adjacent to the road on the same site used to drill F-77-3B.

Proposed drill hole PRP-5 (map and photo) is sited adjacent to a road in a sparsely grass covered flat adjacent to a stand of evergreens.

Proposed drill hole PRP-6 (map and photo) is located approximately 600 feet west of an existing road and approximately 150 feet east of the fence and section line (Section 12 & 7). Access will be gained by driving approximately 700 feet overland following, what appears to be, a track (trail) established by hunters. Topsoil will not be removed along the access route except by directive from authorized officer.

Proposed drill hole PRP-7 (map and photo) is staked along an existing road approximately 75 feet east of fence and section line (section 13 and 18). A minor amount of leveling will be required at this site.

Proposed drill hole PRP-8 (map and photo) is sited adjacent to an existing road in a clearing apparently made and utilized by loggers as a mill-site. Remnants of rotting slabs are strewn about and adjacent to the clearing.

Proposed drill hole PRP-9 is located along an existing road in a sage covered flat (map and photo). The Wasatch Plateau escarpment lies several hundred feet southeast of the site, but is far enough removed to prevent downhole circulation difficulties.

Proposed drill hole PRP-10 is also located along an existing road on a sage covered ridge top (map and photo). The Wasatch Plateau escarpment lies several hundred feet both north and south of the site, but are far enough removed to prevent downhole circulation difficulties.

Reclamation

Each exploration site which requires reclamation will have trash and debris removed, mud pits (at drill locations) backfilled, and topsoil (when removed) distributed upon completion of exploration activity. All roads and trails constructed or used during the exploration program will be rehabilitated. Existing roads will be returned to a condition equal to or

better than their condition prior to commencement of the exploration activities. New roads which have been constructed will be leveled or returned to approximate original contour, scarified, and re-seeded once their existence is no longer needed for exploration activities. The seeding of rehabilitated locations and access roads will be accomplished in the first favorable seeding season following completion of the exploration program. The re-establishment of vegetation on reclaimed sites and abandoned roads, after exploration activities are concluded, is the planned method to prevent possible soil erosion.

After the topsoil is re-spread, the surface will be scarified, if necessary. Upon recommendations of the BLM, fertilizer and seed will be applied at the proper mix and rate specified.

Abandonment

3482.1(a)(3)(iv)(A) The types, sizes, numbers, capacity and uses of equipment for drilling and blasting, and road or other access route construction;

The activities and uses of equipment has previously been discussed. The following table describes the equipment expected to be utilized during various phases of the exploration program.

LIST OF EQUIPMENT

Exploration Phase	Types of Equipment	Size or Capacity	Quantity	Comments
Drilling	Rotary Drill Rig	GD2000 or similar	2	All of this equipment will be used only for drilling activities.
	Water Truck	4,000 gal	4	
	Pipe Truck	Dual-axle flat-bed	2	
	Core Trailer	8' x 28'	2	
	Elect. Generator	50 kW	2	
	Travel Trailer	8' x 25'	3	
Support & Reclamation	Bulldozer	D8 Bulldozer or similar	1	All equipment will be rubber tired except the Bulldozer which is track mounted.
	Road Grader	D14 Caterpillar or similar	1	
	Backhoe	Rubber tire Tractor-type	1	
	Fuel Truck	2,000 gal.	1	

3482.1(a)(3)(iv)(B) Excavated earth or debris disposal activities;

All earth excavated in any phase of the proposed exploration activities will be treated the same. Where required, the topsoil will be removed and stockpiled for re-distribution during road and site reclamation. Drainage will be controlled to prevent concentrated runoff across exposed soils. Each site or disturbed area will be reshaped to approximately the original land contours, leaving a roughened surface. The areas will be scarified where compaction has occurred. The reclaimed sites will be prepared to be fertilized and seeded at the earliest suitable times.

All debris and trash will be disposed of properly and in a timely manner. Location of disposal will be completely off the exploration area.

3482.1(a)(3)(iv)(C) The proposed method for plugging drill holes;

Upon completion each hole will be grouted with portland cement from bottom to surface with a single strand of coaxial cable embedded within the grout to form a TDR (Time Domain Reflectometry) monitor point. Completion of TDR monitor points are described below under 3482.1(a)(3)(iv)(E).

3482.1(a)(3)(iv)(D) Estimated size and depth of drill holes, trenches and test pits: and;

All of the proposed drill holes are estimated to be approximately 1500 feet deep. The diameter of drill holes will vary depending on hole conditions, the range will be 4-3/4 inches to 9-1/2 inches.

3482.1(a)(3)(iv)(E) Plans for transfer and modification of exploration drill holes to be used as surveillance, monitoring, or water wells.

Every drill hole will be converted to a TDR (Time Domain Refractometry) monitoring sites. Diagrams showing completion method are shown on Figures 2 and 3 respectively. TDR monitor sites are constructed by placing an approximately 1/2 inch diameter coaxial cable full length of the hole, then grouting the entire hole from top to bottom with portland cement. When the grout hardens, the cable and grout become part of the strata; and the cable breaks as caving occurs above longwall panels. This reference constitutes a written request for permission to utilize the drill holes as monitoring points pursuant to 43 CFR 3484.1(a)(5); and elicits a specific written approval of same.

3482.1(a)(3)(v) An estimated timetable for conducting and completing each phase of the exploration, drilling and reclamation.

The proposed exploration program is scheduled to begin in July 1991. Current plans allow for both phases of the program to run concurrently. It is expected that the reclamation will require the longest amount of time to complete. The following bar graph demonstrates the estimated time schedule for each phase of the proposed program.

PROPOSED MONITOR WELL LOCK SYSTEM

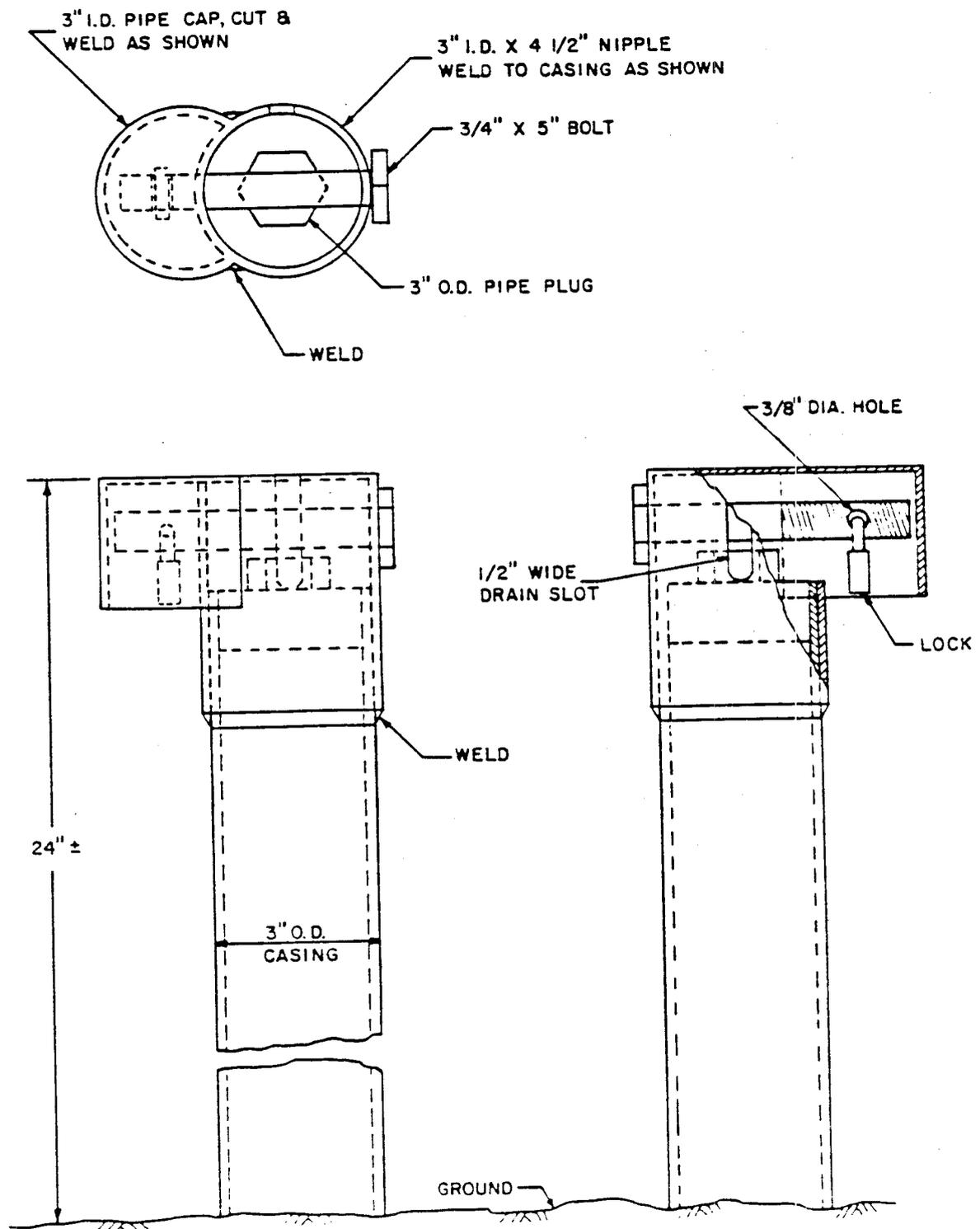


FIGURE 2

COMPLETION DIAGRAM

TDR MONITOR-WELL

MOHRLAND PROJECT

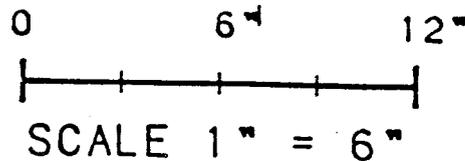
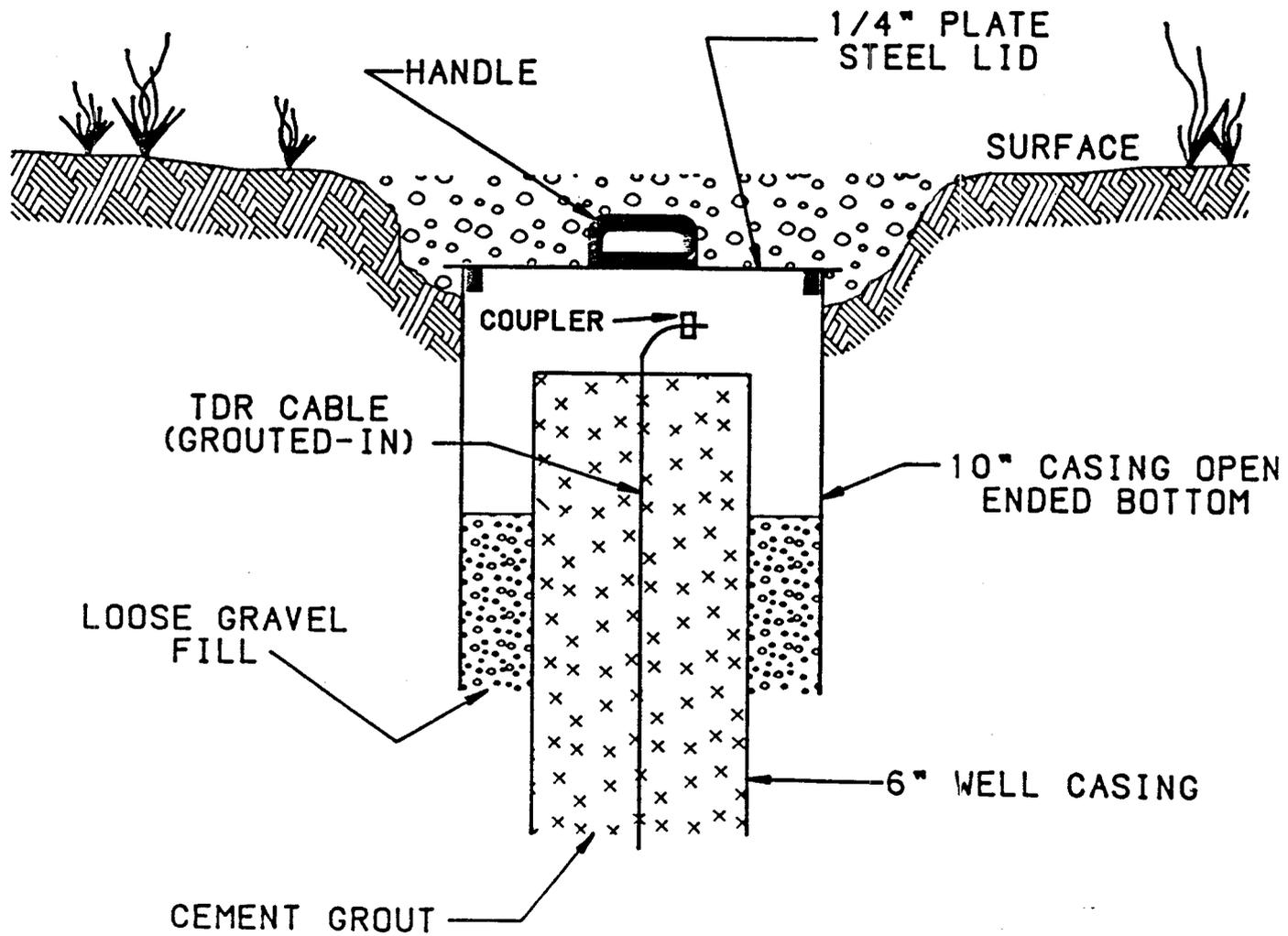


FIGURE 3

PHASE OF	<u>JUNE</u>	<u>JULY</u>	<u>AUGUST</u>	<u>SEPTEMBER</u>	<u>OCTOBER</u>
<u>EXPLORATION</u>	WEEK	WEEK	WEEK	WEEK	WEEK
	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4
Drilling	*****				
Reclamation	*****				

The total exploration plan, which includes re-seeding, can be completed in approximately 20 weeks, providing that there are no unforeseen delays.

3482.1(a)(3)(vi) The estimated amounts of coal to be removed during exploration, a description of the method to be used to determine those amounts, and the proposed use of the coal removed.

The proposed exploration plan calls for seven (7) holes. Three inch diameter coal core will be removed from each of the two seams in each hole. It can be assumed that substantially less than a total of one ton of coal will be removed throughout the entire proposed program.

The coal that will be removed will be used for quality and geotechnical testing. The results of these tests will aid in property evaluation, underground mine design and future exploration planning.

3482.1(a)(3)(vii) A description of the measures to be used during exploration for federal coal to comply with the performance standards for exploration (3481.1(a) and applicable requirements of 30 CFR 815.15 or an approved state program.

3484.1(a)(2) The operator/lessee, if required by the authorized officer, shall set and cement casing in the hole and install suitable blowout prevention equipment when drilling on lands valuable or prospectively valuable for oil, gas, or geothermal resources.

If required by the authorized officer, casing will be set and cemented in the hole and suitable blowout prevention equipment will be installed. The area and depth of proposed exploration is such that the prospective value of oil, gas or geothermal resources is not anticipated.

3484.1(a)(3)

All exploration drill holes must be capped with at least 5 feet of cement and plugged with a permanent plugging material that is unaffected by water and hydrocarbon gases and will prevent the migration of gases and water in the drill hole under normal hole pressures. For exploration holes drilled deeper than stripping limits, the operator/lessee, using cement or other suitable plugging material approved by the authorized officer shall plug the hole through the thickness of the coal bed(s) or mineral deposits(s) and through aquifers for a distance of at least 50 feet above and below the coal bed(s) or mineral deposit(s) and aquifers, or to the bottom of the drill hole. A lesser cap or plug may be approved by the authorized officer. Exploration activities shall be managed to prevent water pollution and mixing of ground and surface waters and ensure the safety of people, livestock, and wildlife.

The possibility of contamination of surface waters by drilling materials is extremely low, adequate precautionary measures to prevent the escape of drilling materials into stream drainages can be incorporated into individual site designs. The potential for contamination of surface waters can be minimized by constructing waste pits of sufficient size to contain all effluent drilling materials. To prevent overflow, the waste pits will be pumped out and waste fluids will be disposed of properly. Waste pits will be lined if percolation of fluids through the walls into stream drainages appears possible.

The potential of intermixing of groundwaters and raising or lowering of certain aquifers could possibly result in exploration utilizing deep drill holes. To minimize these effects, the drill hole plugging requirements of the BLM and 43 CFR 3484.1(a)(3) will be strictly adhered to.

3484.1(a)(4) The operator/lessee shall retain for one (1) year, unless a shorter time period is authorized by the authorized officer, all drill and geophysical logs and shall make such logs available for inspection or analysis by the authorized officer, if requested. The authorized officer, at his discretion, may require the operator/lessee to retain representative samples of drill cores for one (1) year. Confidentiality of such information will be accorded pursuant to the provisions of § 3481.3 of this title.

Drill and geophysical logs as well as representative core samples obtained from the proposed exploration program will be available for inspection or analysis by the authorized officer for one year.

3484.1(a)(5) The operator/lessee may utilize exploration drill holes as surveillance wells for the purpose of monitoring the effects of subsequent operations on the quantity, quality, or pressure of groundwater or mine gases only with the written approval of the authorized officer, in consultation with the regulatory authority. The operator/lessee may convert exploration drill holes to water wells only after approval of the operator/lessee's written request by the authorized officer and the surface owner or authorized officer in consultation with the regulatory authority. All such approvals shall be accompanied by a corresponding transfer of responsibility for any liability including eventual plugging, reclamation, and abandonment. Nothing in this paragraph shall supersede or affect the applicability of

any state law requirements for such a transfer, conversion, or utilization as a supply for domestic consumption.

3484.1(a)(5) Refer to response to 3482.1(a)(3)(iv)(E).

3482.1(a)(3)(viii) A map at a scale of 1:24,000 or larger showing the areas of land to be affected by the proposed exploration and reclamation. The map shall show existing roads, occupied dwellings and pipelines; proposed location of trenches, roads, and other access routes and structures to be constructed; applicable federal lease and license boundaries; the location of land excavating to be conducted; coal exploratory holes to be drilled or altered; earth or debris-disposal areas; exiting bodies of surface water; and topographic and drainage features.

Attached to this application is a map at a scale of 1:24,000 showing the requested information (proposed drill hole locations).

3482.1(a)(3)(ix) The name and address of the owner of record of the surface land, if other than the United States. If the surface is owned by a person other than the applicant or if the federal coal is leased to a person other than the applicant, a description of the basis upon which the applicant claims the right to enter that land for the purpose of conducting exploration and reclamation.

Attention: Michael J. Nosanov
Department of Water and Power
The City of Los Angeles
(Operating Agent for Intermountain Power Agency)
111 North Hope Street
Box 111
Los Angeles, CA 90051-0100
Telephone: (213) 481-5810

Cyprus Coal has been granted written permission to access the surface for the purpose of conducting exploration activities (Attachment B).

3482.1(a)(3)(x) Such other data as may be required by the authorized officer.

Other data that may be required will be made available as soon as possible upon the request of the BLM.

ATTACHMENT A

CAPTIONS FOR COLOR PHOTOGRAPHS OF
PROPOSED DRILL HOLE LOCATIONS TAKEN
NOVEMBER 1990

- PRP 4, VIEW N; Note casing from previous drill hole F-77-3B, road lies 10 ft. behind camera.
- PRP 5, VIEW N-NE; Stake is in small snow patch near center, note road lies immediately right of nearest stand of pines.
- PRP 6, VIEW N; Approximately 700 ft. of access road will be required; likely can utilize old hunter's trail without removing topsoil.
- PRP 7, VIEW N-W; Site is adjacent to road.
- PRP 8, VIEW N-W; Site is adjacent to road on what appears to have been a temporary sawmill site.
- PRP 9, VIEW N; Site is adjacent to road on sage covered flat; truck is on road.
- PRP 10, VIEW N; Site is adjacent to road on sage covered flat.



CLINE # 2620
APR 1984
25MM PRINTS



35MM PRINTS
#30208

December 11, 1990

Mr. Gregory L. Hunt
Cyprus Coal Company
9100 E. Mineral Circle
Englewood, Colorado 80155

Dear Mr. Hunt:

Mohrland Reserve
Grant of Access to Surface

As you know, Intermountain Power Agency (IPA) is the owner of record of certain lands described more fully in Exhibit A enclosed in this letter. The City of Los Angeles Department of Water and Power is the Operating Agent for IPA. This letter is intended to grant to Cyprus Coal Company and its affiliates, and their representatives, employees and contractors, full and complete access to the lands described in Exhibit A hereto for the purpose of conducting a coal drilling and exploration program. The right of access includes the right to utilize existing roads and to construct temporary access roads, where required, to access drill sites. The grant of access also includes the right to clear drill pad locations, excavate mud pits, and conduct all necessary reclamation work at the conclusion of the drilling program.

If any individuals, entities, or governmental agencies want to confirm this grant of access, they may contact me at (213) 481-4104 or Mr. David W. Anderson at (213) 481-6019.

Sincerely,
ORIGINAL SIGNED
MICHAEL J. NOSANOV
MICHAEL J. NOSANOV
Coal Supply Manager

MJN:jaa

Enclosure

c: Mr. David W. Anderson

EXHIBIT A

Township 16 South, Range 8 East, SLM

Section 6: Lots 11, 12, 13, 14
E 1/2 SW 1/4, W 1/2 SE 1/4, SE 1/4 SE 1/4

Section 7: Lots 1, 2, 3, 4
E 1/2 W 1/2, E 1/2

Section 8: W 1/2 E 1/2, W 1/2

Section 10: S 1/2 S 1/2

Section 11: S 1/2 SW 1/4

Section 15: NE 1/4 NE 1/4, W 1/2 NE 1/4, NW 1/4,
W 1/2 SW 1/4, SE 1/4 SW 1/4

Section 16: All

Section 17: All

Section 18: Lots 1, 2, 3, 4
E 1/2, E 1/2 W 1/2

Section 21: NE 1/4, E 1/2 NW 1/4, N 1/2 SE 1/4

Section 22: NW 1/4 NW 1/4

ACT/007/006#2
+ Exploration File
Copy Susan, Pam

June 19, 1991

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

Dear Ms. Littig,

Re: Exploration performed for Mohrland Project fee surface fee coal.

As per requirement, we are notifying you concerning the exploration permit. We will be starting the Mohrland project Fee Surface Fee Coal exploration on Friday, June 21, 1991.

We would also like to express our appreciation for your prompt handling of this permit.

Respectfully,

Ben Grimes
Sr. Environmental Engineer

File: COR 4.1.1.3
Chrono: BG910612

United States
Department of
Agriculture

Forest
Service

Manti-La Sal
National Forest

59. West Price River Dr.
Price, Utah 84501

Reply to: 2820

Date: June 17, 1991

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

Dear Pam:

I have decided to recommend to the Bureau of Land Management the approval of a seven-hole coal exploration drilling project on south Gentry Mountain. Enclosed is a copy of the associated decision document with attachments for your records.

Don't hesitate to contact this office at the above address or by calling (801) 637-2817 if you have any questions or require further information.

Sincerely,



for
GEORGE A. MORRIS
Forest Supervisor

Enclosure

RECEIVED

JUN 19 1991

DIVISION OF
OIL GAS & MINING

DECISION MEMO

CYPRUS COAL COMPANY, SEVEN-HOLE COAL EXPLORATION
DRILLING PROGRAM

FEDERAL COAL LEASE U-61049
PRIVATE SURFACE/FEDERAL MINERALS
PRICE RANGER DISTRICT
MANTI-LA SAL NATIONAL FOREST
EMERY COUNTY, UTAH

Cyprus Coal Company (Cyprus) has applied to the Bureau of Land Management (BLM) to conduct a seven hole coal exploration drilling program on surface lands owned by the Intermountain Power Agency (IPA) within Federal Coal Lease U-61049. Pursuant to established procedures, the BLM has requested that the Forest Service conduct an environmental analysis since these private lands are within the administrative boundary of the Manti-La Sal National Forest. All seven holes and related project roads are located on IPA's private surface. Existing Forest Development Roads and roads on the private surface estate will be used to access the project area. The operator will obtain a Road-Use Permit from the Forest Service authorizing commercial use of Forest Development Roads. The application and operating plan contained in the case file fully explain the proposal. Also see attached maps.

I have decided to recommend approval to the BLM of the action as proposed and amended by Cyprus with no application of Forest Service special stipulations. Through project scoping, the Forest Service and the surface owner (IPA, through its Operating Agent, the Department of Water and Power of the City of Los Angeles) have determined that there are no unmitigated issues for the project (See attached correspondence). The proposed action would then fall within Category 5, of Section 26.2 (mineral and energy activity with limited size, duration, and degree of disturbance) and no extraordinary circumstances exist that might cause the action to have significant effects; therefore, the action is categorically excluded from documentation in an environmental impact statement or an environmental assessment (FSH 1909.15 Section 26). The Forest Service has determined that there would be no adverse impacts to adjacent Forest Service administered lands and that in the project area there would be no impact to threatened, endangered, or sensitive species.

Section 106 of the National Historic Preservation Act of 1966 and 36 CFR 800 requires the heads of Federal agencies with jurisdiction over federal, federally assisted, or federally licensed undertaking to take into account the effects of the agency's undertakings on properties included in or eligible for the National Register of Historic Places. "Undertaking" means any project, activity or program that can result in changes to the character or use of historic properties, if any such historic properties are located in the area of potential effect(s). In most cases, identification of historic properties

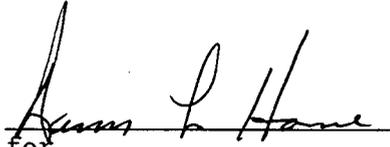
usually requires that a systematic field inventory of the project area be conducted by a qualified professional.

The operator has been notified that a cultural resource inventory of the project area will be required and that the Utah State Historic Preservation Officer must be afforded the opportunity to comment on the projects potential to affect cultural resources prior to approval of the coal exploration places.

The project can be implemented no sooner than seven days following publication of this decision in the Sun Advocate.

This decision is subject to administrative review in accordance with 36 CFR 217. Any appeal of this decision must include the information required by 36 CFR 217.9 (content of a notice of appeal), including the reasons for appeal. Two (2) copies of the Notice of Appeal must be filed with Gray Reynolds, Regional Forester, 324 25th Street, Ogden, Utah 84401 within 45 days of the date specified in the Legal Notice published in the Price Sun Advocate. Also this project may implemented seven days after this date.

If you have concerns about this decision, please contact me so that I can hear and discuss those concerns with you. My phone number is (801) 637-2817.

Approved by: 
for
GEORGE A. MORRIS
Forest Supervisor

Date: June 14, 1991

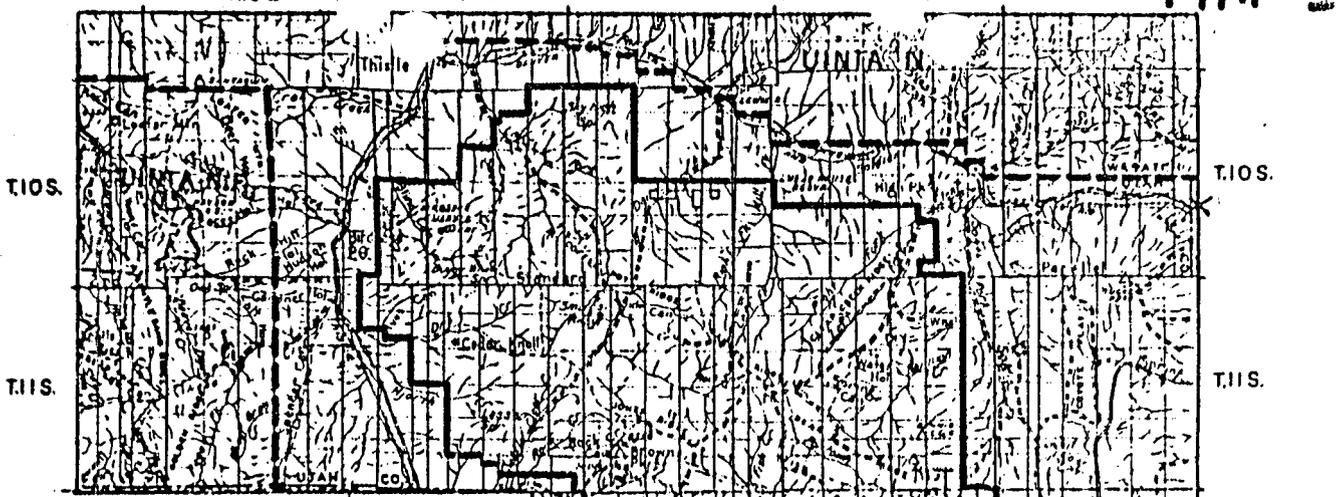
R.3E.

R.4E.

R.5E.

R.7E.

T.11N

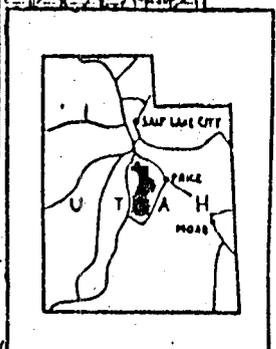
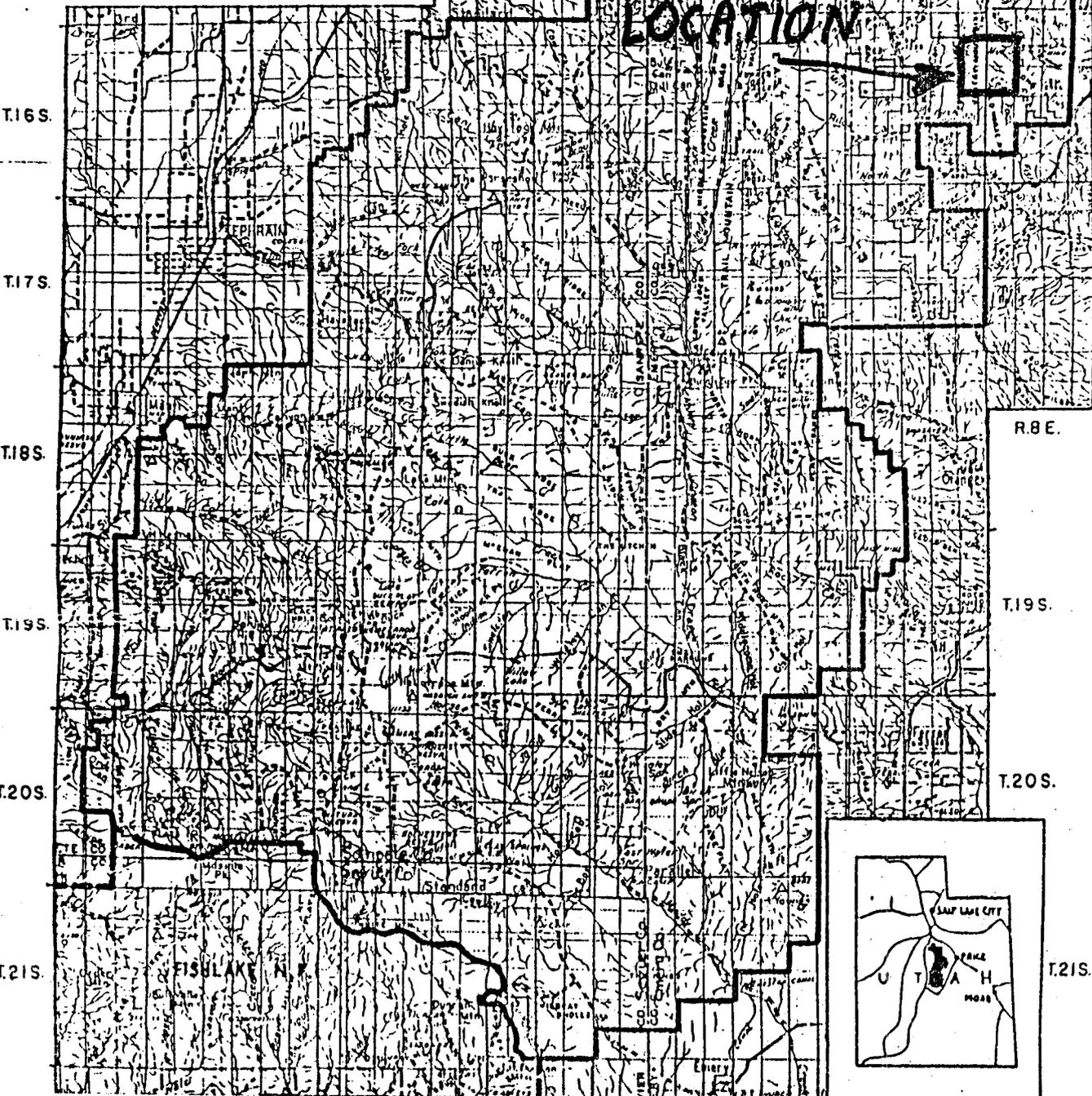


MANTI-LASAL NATIONAL FOREST
 MANTI DIVISION
 UTAH
 SALT LAKE MERIDIAN
 1950'
 SCALE

- LEGEND**
- NATIONAL FOREST BOUNDARY
 - - - ADJACENT NATIONAL FOREST BOUNDARY
 - == MAIN MOTOR HIGHWAY
 - GOOD MOTOR ROAD
 - - - POOR MOTOR ROAD
 - ... TRAIL
 - RAILROAD
 - TELEPHONE LINE
 - SUPERVISOR'S HEADQUARTERS
 - DISTRICT RANGER STATION
 - GUARD OR RANGER STATION NOT PERMANENTLY OCCUPIED
 - TRIANGULATION STATION
 - FOREST SERVICE MONUMENT
 - HOUSE, CABIN OR OTHER BUILDING
 - MINE OR QUARRY
 - ELECTRIC POWER STATION

*CYPRUS-PLATEAU'S
 PROPOSED COAL
 EXPLORATION DRILLING
 GENTRY MOUNTAIN*

**PROJECT
 LOCATION**



T.15'S
T.16'S

T.21S.

MAP 2

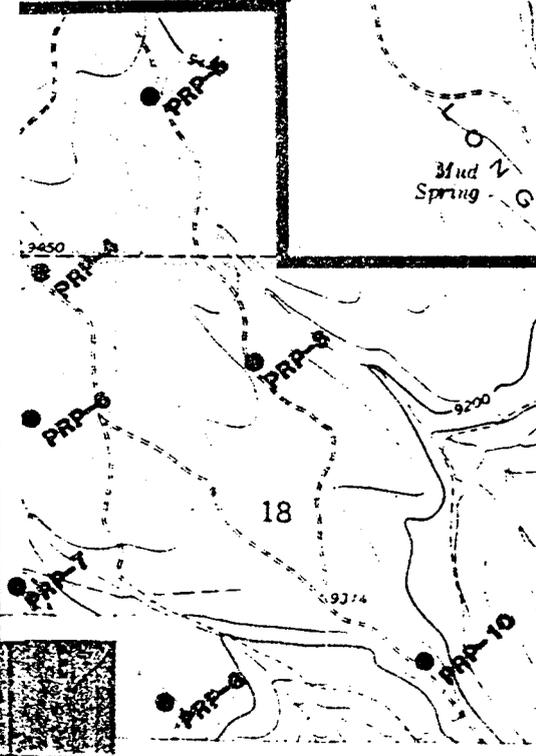
Spring Bald 9514 Ridge

SHADED AREA IS FEDERAL SURFACE AND COAL. UNSHADED AREA WITHIN LEASE U-61049 IS FEDERAL COAL WITH THE SURFACE BEING OWNED BY THE INTERMOUNTAIN POWER AGENCY (I.P.A.).

U-61048

U-61049

PROPOSED DRILL HOLES BEING PROPOSED IN THIS AREA ARE NOT INCLUDED IN THIS AREA



18

17

CUMBERLAND

RIVER

Department of Water and Power



the City of Los Angeles

FOREST SERVICE
MANTI-LA SAL NATIONAL FOREST
PRICE RANGER DISTRICT
MAY 2 1991
ACTION 1

TOM BRADLEY
Mayor

Commission
MICHAEL J. GAGE, *President*
RICK J. CARUSO, *Vice President*
ANGEL M. ECHEVARRIA
DOROTHY GREEN
MARY D. NICHOLS
JUDITH K. DAVISON, *Secretary*

DANIEL W. WATERS, *General Manager and Chief Engineer*
ELDON A. COTTON, *Assistant General Manager - Power*
JAMES F. WICKSER, *Assistant General Manager - Water*
NORMAN L. BUEHRING, *Assistant General Manager - External Affairs*
NORMAN J. POWERS, *Chief Financial Officer*

April 30, 1991

Mr. Walt Nowak
Manti-La Sal National Forest
599 W. Price River Drive
Price, Utah 84501

Dear Mr. Nowak:

Exploration Program Mohrland Reserve Property

This is in response to your April 15, 1991 telephone call, and to the Scoping Document subsequently received, regarding the proposed coal exploration drilling program on the subject property.

By way of background, the coal leases and the fee property at Mohrland are owned by the Intermountain Power Agency (IPA). The Department of Water and Power of the City of Los Angeles (Department), under an agreement with IPA, is the Operating Agent for all of the properties associated with the Intermountain Power Project.

IPA and Cyprus Coal Company (Cyprus) are negotiating the possible development of the Mohrland property. As a part of these negotiations, both IPA and Cyprus need to better evaluate the possible uses of Mohrland coal. To this end, IPA and Cyprus are planning a drilling program to assess the extent and quality of the Mohrland reserves. Cyprus is acting on behalf of IPA and themselves in applying for and pursuing this drilling program.

IPA has no issues with regard to the proposed drilling on either its fee property or its leased property. Cyprus' plan is adequate; IPA does not see a need for further surface management requirements or stipulations. This will also confirm that we have no interest in Forest Service management of the fee surface portion of the subject property. We desire that Cyprus be permitted to proceed with the proposed exploration program. We intend to make access available to IPA's coal over IPA land and the roads that serve it.

Mr. Walt Nowak

- 2 -

April 30, 1991

I greatly appreciate your telephone call, as well as your explanation of the permitting process. Thank you also for your willingness to consider separating the drilling planned for IPA's fee surface property (7 drill holes) from that planned for IPA's leases (3 drill holes) in order to expedite the start of the exploration program. Should further questions arise, please feel free to call me at (213) 481-4898.

Sincerely,



MICHAEL J. NOSANOV
Coal Supply Manager

December 11, 1990

Mr. Gregory L. Hunt
Cyprus Coal Company
9100 E. Mineral Circle
Englewood, Colorado 80155

Dear Mr. Hunt:

Mohrland Reserve
Grant of Access to Surface

As you know, Intermountain Power Agency (IPA) is the owner of record of certain lands described more fully in Exhibit A enclosed in this letter. The City of Los Angeles Department of Water and Power is the Operating Agent for IPA. This letter is intended to grant to Cyprus Coal Company and its affiliates, and their representatives, employees and contractors, full and complete access to the lands described in Exhibit A hereto for the purpose of conducting a coal drilling and exploration program. The right of access includes the right to utilize existing roads and to construct temporary access roads, where required, to access drill sites. The grant of access also includes the right to clear drill pad locations, excavate mud pits, and conduct all necessary reclamation work at the conclusion of the drilling program.

If any individuals, entities, or governmental agencies want to confirm this grant of access, they may contact me at (213) 481-4104 or Mr. David W. Anderson at (213) 481-6019.

Sincerely,

ORIGINAL SIGNED

MICHAEL J. NOSANOV

MICHAEL J. NOSANOV
Coal Supply Manager

MJN:jaa

Enclosure

c: Mr. David W. Anderson

EXHIBIT A

Township 16 South, Range 8 East, SLM

- Section 6: Lots 11, 12, 13, 14
E 1/2 SW 1/4, W 1/2 SE 1/4, SE 1/4 SE 1/4
- Section 7: Lots 1, 2, 3, 4
E 1/2 W 1/2, E 1/2
- Section 8: W 1/2 E 1/2, W 1/2
- Section 10: S 1/2 S 1/2
- Section 11: S 1/2 SW 1/4
- Section 15: NE 1/4 NE 1/4, W 1/2 NE 1/4, NW 1/4,
W 1/2 SW 1/4, SE 1/4 SW 1/4
- Section 16: All
- Section 17: All
- Section 18: Lots 1, 2, 3, 4
E 1/2, E 1/2 W 1/2
- Section 21: NE 1/4, E 1/2 NW 1/4, N 1/2 SE 1/4
- Section 22: NW 1/4 NW 1/4



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangerter
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

May 8, 1991

U.S. Forest Service
Manti-LaSal National Forest
599 West Price River Road
Price, Utah 84501

Attention: Mr. Walt Nowak

Re: Exploration Proposal (South End of Gentry Mountain), Cyprus-Plateau Mining Company, ACT/007/006-91B, Federal Lease U-61049, Folder #2, Carbon County, Utah

Enclosed please find correspondence and recommendations in reference to the Federal Coal Lease U-61049.

If you have any questions, please call me.

Sincerely,


Pamela Grubaugh-Littig
Permit Supervisor

jbe
Enclosure
AT007006.02



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

February 1, 1991

Mr. Eric Jones
Acting Assistant District Manager
Mineral Resources
Bureau of Land Management
Moab District
PO Box 970
Moab, Utah 84532

Dear Mr. Jones:

Re: Exploration Plans, Cyprus-Plateau Mining Company, ACT/007/006, Federal Coal Lease U-61049, Folder #2

Enclosed please find a memorandum that outlines three conditions of approval for Federal Coal Lease U-61049 from the Division of Oil, Gas, and Mining.

If you have any questions, please call me.

Sincerely,



Pamela Grubaugh-Littig
Permit Supervisor

jbe

Enclosures

cc: Brent Northrup, BLM, Moab

Ben Grimes

Susan White

ATU61049



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangerter
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

January 31, 1991

TO: Pamela Grubaugh-Littig, Permit Supervisor
FROM: Susan M. White, Reclamation Biologist *SMW*
RE: Minor Coal Exploration Permit, Cyprus Coal Company,
ACT/007/006, Exploration Folder, Carbon County, Utah

Synopsis and Analysis

Cyprus Coal Company, acting as operator for Intermountain Power Agency, has submitted a proposal for a coal exploration project which will remove less than 250 tons of coal. The proposed exploration is outside a permit area boundary. The coal is within a federal lease; therefore, the Bureau of Land Management is responsible for issuing the coal exploration permit.

Recommendation

The following are recommendations for conditions of approval:

1. The applicant must commit to notifying all agencies concerned upon commencement and completion of activities.
2. The Division recommends that the seed mixture to be used in revegetation consist of grass, forb, and shrub species, which are native to the immediate area.
3. The applicant should reference the April 15, 1990 listing of Endangered and Threatened Wildlife and Plants.

jbe
AT007006.7

United States
Department of
Agriculture

Forest
Service

Manti-La Sal
National Forest

Price Ranger District
595 West Price River Dr.
Price, Utah 84501
(801) 637-2817

Reply to: 2820

Date: April 12, 1991

Copy PAM

Lowell Braxton
Utah Department of Natural Resources
Division of Oil, Gas and Mining
355 West North Temple
3 Traid Center, Suite 350
Salt Lake City, Utah 84180-1203

Dear Lowell:

The Manti-La Sal National Forest is currently evaluating two proposals filed by Cyprus Coal Company (Cyprus) with the Bureau of Land Management to conduct coal exploration drilling on the south end of Gentry Mountain about 17 miles southwest of Price in Emery County. Cyprus is proposing to drill 10 exploration holes this summer to evaluate coal reserves and geologic conditions on Federal Coal Lease U-61049.

Three of the holes are located on Federal lands within the Manti-La Sal National Forest and are administered by the Price Ranger District. The remaining 7 holes are located on private land owned by the Intermountain Power Agency. The Bureau of Land Management has requested that the Forest Service review both proposals and prepare the necessary environmental analysis.

The Price Ranger District is currently in the process of preparing the environmental documentation and is seeking input from the public. Please review the attached scoping document and maps. Further information can be obtained from this office at the address and phone number identified above. Public comments on this proposal will be accepted at this office until April 26, 1991.

Sincerely,

Walter E. Nowak

for
IRA W. HATCH
District Ranger

Enclosure

RECEIVED

APR 15 1991

DIVISION OF
OIL GAS & MINING

MANTI-LA SAL NATIONAL FOREST
PROJECT SCOPING DOCUMENT / ENVIRONMENTAL ASSESSMENT

DATE: 04/11/91

DISTRICT NAME: Price

FILE CODE: 2820

1. PROJECT NAME: Cyprus Coal Co., Coal Exploration Drilling
2. RESPONSIBLE OFFICIAL: George A. Morris
3. PROPOSAL:
Cyprus Coal proposes to drill 10 holes to evaluate Federal Coal Lease U-61049. Three of the holes will be drilled on Federal Surface/Minerals and seven will be drilled on private (I.P.A.) Surface/Federal Minerals. Conventional surface access will be used. SEE ATTACHED MAPS FOR LOCATION.
4. TIERING AND REFERENCING OPPORTUNITIES:
Manti-La Sal National Forest Land and Resource Management Plan and Final Environmental Impact Statement, 11/86; Environmental Assessment Northwest Carbon Corporations Proposed Coal Exploration Drilling on Gentry Mountain, 11/25/80; Environmental Assessment, Decision Notice and Findings of No Significant Impact, Proposed Coal Exploration Drilling - Gentry Ridge, Getty Mining Company, Federal Coal Lease U-13097, 09/27/83; Environmental Assessment, Getty Coal Co., Exploration License Application U-54597 and Proposed Exploration Drilling in the Tie Fork Area, 05/85.
5. OTHER AGENCIES OR PUBLICS INVOLVED: BLM
6. PUBLIC INVOLVEMENT:
News releases regarding this action were submitted for publication in the Emery County Progress and the Price Sun Advocate. Letters will be sent to identified interested publics inviting comments on the proposal.
7. EFFECTS ON THE ENVIRONMENT:
Disturbance to wildlife from increased traffic and human presence (noise and activity) would occur during the project. The removal of vegetation for road and pad site construction could temporarily decrease the productiveness of the areas and increase soil loss.
8. ISSUES:
 - Disturbance from road building and human presence (noise and activity) could impact wildlife.
 - The presence or absence of Threatened, Endangered or Sensitive plant or animal species must be determined.
 - The presence or absence of cultural resource values needs to be determined.

- If not mitigated, road and pad construction could cause increased soil erosion.
- Damage could result to Forest Development Roads through use by the heavy equipment needed for drilling and construction.
- There would be a potential for increased hazards to the public due to heavy equipment and increased traffic.
- Unless mitigated, noxious weeds would tend to grow in the area after it has been disturbed.
- There is a concern that surface and subsurface water quality could be adversely affected.
- Successful revegetation of the pad sites would be difficult to achieve because the area is fairly flat and human, wildlife, and livestock traffic would tend to use the reclaimed areas.

Many of the above issues have been identified and addressed in the environmental documents listed under tiering and references and in other analyses prepared for earlier projects conducted in the area.

9. SUGGESTED ALTERNATIVES:

- 1) No action
- 2) Proposed action
- 3) Proposed action with Forest Service mitigations, which includes possible modification of locations and access methods.

10. ANALYSIS AND DECISION CRITERIA:

Management decisions and guidelines as defined in the Forest Plan.

11. ANALYSIS SKILLS:

SPECIALTY	SPECIALIST	ROLE (team leader, team member consultant, other)
Soil Scientist	Dan Larsen	Member
Hydrologist	Dennis Kelly	Member
Vegetation/Range	Bob Thompson	Member
District Ranger	Ira Hatch	Member
Engineering	Brent Barney	Consultant
Geologist	Walt Nowak	Leader

12. SCHEDULE:

- | | |
|--|--------------------------------------|
| a. Functional Status Report: ___/___/___ | f. Review Draft Meeting: ___/___/___ |
| b. Initial Meeting: 02/21/91 | g. EA Draft: 07/___/91 |
| c. Field Review: 06/___/91 | h. DFR Decision Notice: ___/___/___ |

d. ID Team Meeting: 06/__/91

i. S. O. Decision Notice: 07/__/91

e. ID Team Review Draft: __/__/__

j. Project Implementation: 08/__/91

13. RANGER DECISION:

Requires further assessment: XX

Requires no further assessment: _____

Categorical Exclusion: _____

Ira W. Hatch
District Ranger

April 11, 1991
Date

R.3E.

R.4E.

R.5E.

R.6E.

R.7E.

MAP 1

T.10S.

T.10S.

T.11S.

T.11S.

MANTI-LASAL NATIONAL FOREST
MANTI DIVISION
UTAH
SALT LAKE MERIDIAN
1950'

T.12S.

T.12S.



LEGEND

- NATIONAL FOREST BOUNDARY
- ADJACENT NATIONAL FOREST BOUNDARY
- MAIN MOTOR HIGHWAY
- GOOD MOTOR ROAD
- POOR MOTOR ROAD
- TRAIL
- RAILROAD
- TELEPHONE LINE
- SUPERVISOR'S HEADQUARTERS
- DISTRICT RANGER STATION
- GUARD OR BARRER STATION NOT PERMANENTLY OCCUPIED
- TRIANGULATION STATION
- FOREST SERVICE MONUMENT
- HOUSE, CABIN OR OTHER BUILDING
- MINE OR QUARRY
- ELECTRIC POWER STATION

T.13S.

R.8E.

T.14S.

CYPRUS-PLATEAU'S
PROPOSED COAL
EXPLORATION DRILLING
GENTRY MOUNTAIN

T.15S.

PROJECT
LOCATION

T.15S
T.16S

T.16S.

T.17S.

T.18S.

T.19S.

T.20S.

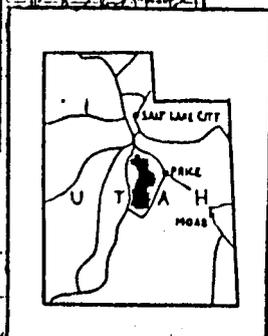
T.21S.

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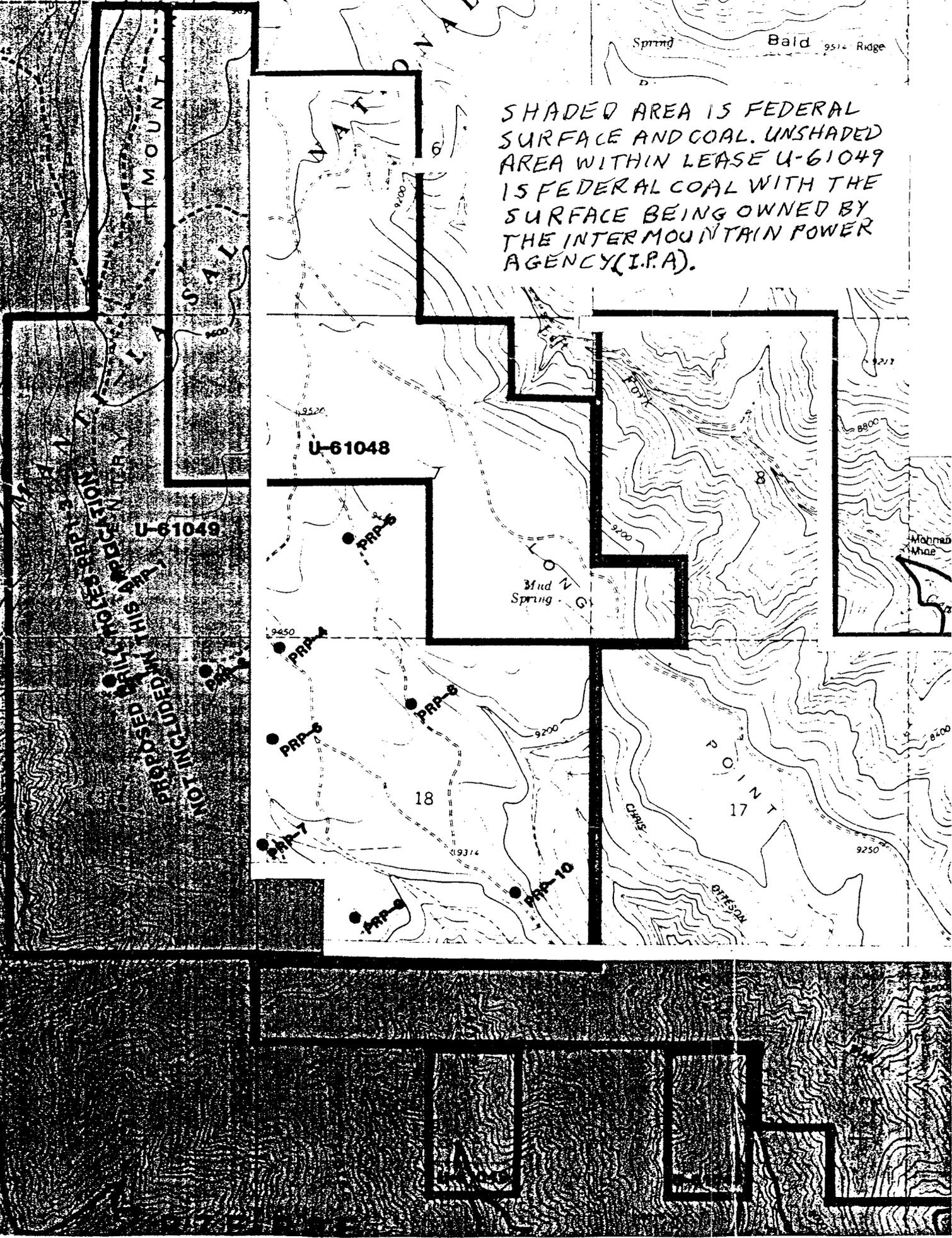
T.20S.

T.21S.



MAP 2

SHADED AREA IS FEDERAL SURFACE AND COAL. UNSHADED AREA WITHIN LEASE U-61049 IS FEDERAL COAL WITH THE SURFACE BEING OWNED BY THE INTERMOUNTAIN POWER AGENCY (I.P.A).



SAL
MOUNTAIN

U-61048

U-61049

PROPOSED RAILROAD SECTION IN THIS AREA.
NOT INCLUDED IN THIS MAP.

PRP-5

PRP-7

PRP-8

18

PRP-9

Mud Spring

PRP-10

POINT

CHRIS

BRISDA

Spring

Bald Ridge

Mud Spring



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

January 31, 1991

TO: Pamela Grubaugh-Littig, Permit Supervisor
FROM: Susan M. White, Reclamation Biologist *SMW*
RE: Minor Coal Exploration Permit, Cyprus Coal Company,
ACT/007/006, Exploration Folder, Carbon County, Utah

Synopsis and Analysis

Cyprus Coal Company, acting as operator for Intermountain Power Agency, has submitted a proposal for a coal exploration project which will remove less than 250 tons of coal. The proposed exploration is outside a permit area boundary. The coal is within a federal lease; therefore, the Bureau of Land Management is responsible for issuing the coal exploration permit.

Recommendation

The following are recommendations for conditions of approval:

1. The applicant must commit to notifying all agencies concerned upon commencement and completion of activities.
2. The Division recommends that the seed mixture to be used in revegetation consist of grass, forb, and shrub species, which are native to the immediate area.
3. The applicant should reference the April 15, 1990 listing of Endangered and Threatened Wildlife and Plants.

jbe
AT007006.7

Can route to Mike JLB



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Moab District
P. O. Box 970
Moab, Utah 84532

3482
(U-61049)
(U-065)

JAN 18 1991

RECEIVED
JAN 22 1991

DIVISION OF
OIL, GAS & MINING

Mr. Lowell Braxton
State of Utah Natural Resources
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Dear Lowell:

We have enclosed 2 exploration plans submitted by Cyprus Plateau Mining Company for Federal coal lease U-61049. One plan involves land managed by the Forest Service and the other plan involves fee land within the Manti-LaSal National Forest.

Please review these plans and provide any recommendations you have for conditions of approval. If you have any questions, please contact Brent Northrup at 259-6111.

Sincerely yours,

ACTING

Assistant District Manager
Mineral Resources

Enclosures (2)
1-Exploration Plan for Forest Service Surface
1-Exploration Plan for Fee Surface

ACTING

PERMIT TRACKING FORM

Divide Permit Area
Make recommendations

Type of Proposal:

MRP AMENDMENT _____
MRP REVISION _____
EXPLORATION

TDN # _____
NOV #N _____, # _____ of _____
CO #C _____, # _____ of _____

I. B. C. _____ (Incidental Boundary Change)

Title of Proposal: Exploration - Cyprus Plateau Mining Corp.

Company Name: Starpoint Mines

File #: (INA / PRO / ACT / (CEP) 007 / 006 - 91 ~~A~~^B # New Acres: _____

LEAD Reviewers: Susan

Tech Memo Drafted

HYDROLOGY _____
BIOLOGY _____
ENGINEER _____
SOILS _____
GEOLOGY _____

Yes No
() ()
() ()
() ()
() ()
() ()

Please Check Appropriate Box!!

Dates:

(1) Initial Plan Received 1/22/91
Tech Review Due _____
Tech Review Complete _____
DOGM Response Sent _____
Operator Response Due _____

(4) Operator Resubmission _____
Tech Review Due _____
Tech Review Complete _____
DOGM Response Sent _____
Operator Response Due _____

(2) Operator Response Rc'd _____
Tech Review Due _____
Tech Review Complete _____
DOGM Response Sent _____
Operator Response Due _____

(5) Operator Response Rcd _____
Tech Review Due _____
Tech Review Complete _____
DOGM Response Sent _____
Operator Response Due _____

(3) Operator Response Rc'd _____
Tech Review Due _____
Tech Review Complete _____
DOGM Response Sent _____
Operator Response Due _____

Conditional Approval _____
Stipulations Due _____
Stipulations Received _____
DOGM Response Sent _____
Final Approval _____
Filed in MRP _____
Author _____
Transmitted _____

COMMENTS:

40-10-3(19) of the Utah Coal Mining and Reclamation Act (U.C.A.) does include the provision at issue. Therefore, the Director finds that Utah's proposed definition of "unwarranted failure to comply" at R614-100-200 is less effective than the corresponding Federal definition at 30 CFR 843.5 and is inconsistent with the Utah statutory definition at section 40-10-3(19). For these reasons, the Director is requiring Utah to amend its proposed definition of "unwarranted failure to comply" at R614-100-200 to include the situation where a permittee fails to abate a violation.

3. R614-100-415, Applicability of R614 Rules to Coal Exploration Operations on Federal Lands

Utah proposes at R614-100-400 that, with certain exceptions, the State's R614 rules apply to all coal exploration and coal mining and reclamation operations. One of these proposed exceptions, R614-100-415, is for coal exploration operations that intend to remove less than 250 tons of coal and which are subject to the requirements of the Federal regulations at 43 CFR Parts 3480-3487. These Federal regulations apply to coal exploration and mining operations on Federal lands having leased Federal coal. Therefore, if approved, Rule R614-100-415 would require Utah to regulate not only all coal exploration operations on non-Federal lands, but also all coal exploration operations which intend to remove more than 250 tons and are located on Federal lands having leased Federal coal.

As discussed below, the Director finds that Utah's proposed rules at R614-100-400 and R614-100-415, as they apply to Federal lands having leased Federal coal, are inconsistent with other rules proposed by Utah and the cooperative agreement between the Secretary and Utah concerning regulation of coal exploration and mining on Federal lands.

The proposed rule at R614-100-415 is inconsistent with Utah's proposed rule at R614-100-300, which limits State program responsibilities to non-Indian and non-Federal lands except in those situations where Utah assumes certain responsibilities for Federal lands through a cooperative agreement approved in accordance with 30 CFR part 745. Utah's approved cooperative agreement at 30 CFR 944.30 reserves to the Federal government jurisdiction over coal exploration activities subject to 43 CFR parts 3480-3487. Therefore, the Director is not approving Utah's proposed rule at R614-100-415 to the extent that the rule would require coal

exploration operations subject to 43 CFR 3480-3487 to comply with requirements of the Utah coal exploration program. Specifically, he is not approving the phrase "which removes less than 250 tons" as it appears in Utah's proposed rule at R614-100-415.

4. R614-103-432, Initial Processing, Record Keeping and Notification Requirements for Petitions to Designate Lands Unsuitable for Coal Mining and Reclamation Operations

Utah proposes rules at R614-103-432.100 (notification of a receipt of a petition to designate lands suitable for mining) and R614-103-432.300 (notification of the petition being determined complete by Utah) that are, with one exception, identical to the corresponding Federal regulations at 30 CFR 764.15 (b)(1) and (b)(2). The exception is that Utah requires notification of the public within 15 days of receipt of the petition and within 15 days of the petition being determined complete. The Federal regulations require notification "promptly" after a petition is received and "promptly" after the petition is determined complete. Utah has chosen to quantify what "promptly" means—in these cases 15 days. The Director finds public notification of a petition receipt and determination of petition completeness is prompt if it is done within 15 days. He therefore finds that Utah's proposed rules at R614-103-432.100 and R614-103-432.300 are no less effective than the Federal regulations at 30 CFR 764.15 (b)(1) and (b)(2).

5. R614-301-731.212 and R614-301-731.223, Ground-Water and Surface-Water Monitoring

Utah proposes rules at R614-301-731.212 and R614-301-731.223 which require that ground-water and surface-water monitoring data be submitted at least every 3 months for each accessible monitoring location (emphasis added). The corresponding Federal regulations at 30 CFR 780.21 (i) and (j) and 784.14 (h) and (i) require monitoring data submissions at least every 3 months for each location (regardless of accessibility) unless a lesser frequency is later approved pursuant to a demonstration made in accordance with 30 CFR 818.41(c)(3) or 817.41(c)(3) (emphasis added).

By letter dated March 15, 1989 (administrative record No. UT-504), Utah submitted to OSM its justification for limiting the reporting of monitoring data collection to just those accessible monitoring locations. It stated that the proposed rules take into account the weather conditions of the Utah coal

fields where the altitude ranges from 5,000 to 9,000 feet above sea level making most monitoring locations inaccessible for 6 months of the year from November through May. Rather than requiring operators to submit quarterly monitoring reports for inaccessible monitoring locations that would read "inaccessible," Utah reasoned that reports should be required for only those monitoring sites that are accessible.

As discussed in the preamble to the Federal regulations (48 FR 43956, 43975, September 26, 1983) a number of commenters suggested that OSM replace the proposed quarterly monitoring requirements with a more flexible schedule. Reasons offered in support of this position included the burden and expense of monitoring, the slowness of detectable changes in ground-water quality, the lack of quality changes following the first year of operation, variability of local hydrologic and seasonal conditions which affect monitoring such as ice and snow cover, and the regulatory authority's knowledge of local conditions. OSM agreed that a variety of factors can affect schedules for monitoring. However, OSM ultimately concluded that the quarterly monitoring requirements help in the identification of any hydrologic problems that may develop during mining and do not impose an undue burden on operators. Thus, OSM previously considered, on a nationwide basis, suggestions whether winter weather conditions should be a factor limiting water monitoring frequency and decided to make no exceptions on the basis of such conditions.

Although States are free to develop and adopt rules that meet their special needs, it is the prerogative of the State to establish an adequate record for approval of an alternative to the requirements of the Federal regulations (48 FR 53376, October 28, 1981). The Utah letter dated March 15, 1989 does not adequately establish that the proposed limitation on water monitoring frequency requirements is as effective in meeting the requirements of SMCRA as the Federal provisions.

Therefore, the Director finds that Utah's proposed rules at R614-301-731.212 and R614-301-731.223 are less effective than the corresponding Federal regulations at 30 CFR 780.21 (h) and (i) and 784.14 (h) and (i), and he is not approving them. Specifically, he is not approving the word "accessible" as it appears in Utah's proposed rules at R614-301-731.212 at R614-301-731.223.

haul roads" (i) a recorded right of way, recorded easement, or a permit for a coal haul road recorded as of August 3, 1977, or (ii) any other road in existence as of August 3, 1977; (c) a person possesses valid existing rights if the person proposing to conduct coal mining and reclamation operations can demonstrate that the coal is both needed for, and immediately adjacent to, an ongoing coal mining and reclamation operation which existed on August 3, 1977. A determination that coal is "needed for" will be based upon a finding that the extension of mining is essential to make the coal mining and reclamation operation as a whole economically viable; (d) where an area comes under the protection of 40-10-24 of the Act after August 3, 1977, valid existing rights will be found if" (i) on the date the protection comes into existence, a validly authorized coal mining and reclamation operation exists on that area, or (ii) the prohibition caused by 40-10-24 of the Act, if applied to the property interest that exists on the date the protection comes into existence, would effect a taking of the person's property which would entitle the person to just compensation under the Fifth and Fourteenth Amendments to the United States Constitution; and (c) interpretation of the terms of the document relied upon to establish the rights to which the standard of portions (a) and (d) of this definition applies will be based either upon applicable Utah statutory or case law concerning interpretation of documents conveying mineral rights or, where no applicable Utah law exists, upon the usage and custom at the time and place it came into existence.

"Valley Fill" means a fill structure consisting of any material, other than organic material, that is placed in a valley where side slopes of the existing valley, measured at the steepest point, are greater than 20 degrees, or where the average slope of the profile of the valley from the toe of the fill to the top of the fill is greater than ten degrees.

"Violation, Failure, or Refusal" means for the purposes of R614-402, (1) A violation of a condition of a permit issued under the State Program, or (2) A failure or refusal to comply with any order issued under UCA 40-10-22, or any order incorporated in a final decision issued under UCA 40-10-20(2) or R614-104-500.

"Violation Notice" means any written notification from a governmental entity of a violation of law, whether by letter, memorandum, legal or administrative pleading, or other written communication.

"Water Table" means the upper surface of a zone of saturation where the body of ground water is not confined by an overlying impermeable zone.

"Willfully" means for the purposes of R614-402, that an individual acted (1) either intentionally, voluntarily, or consciously, and (2) with intentional disregard or plain indifference to legal requirements is authorizing, ordering, or carrying out a corporate permittee's action or omission that constituted a violation, failure, or refusal.

"Willful Violation" means an act or omission which violates the State Program or any permit condition, committed by a person who intends the result which actually occurs.

310. The Division is responsible for the regulation of coal mining and reclamation operations and coal exploration under the approved State Program on non-federal and non-Indian lands in accordance with the procedures in the R614 Rules.

320. The Division, through a cooperative agreement, exercises certain authority relating to the regulation of coal mining and reclamation operations on federal lands in accordance with 30 CFR Part 745.

R614-100-400. Applicability

410. Except as provided under R614-100-420, the R614 Rules apply to all coal exploration and coal mining and reclamation operations, except:

411. The extraction of coal by a landowner for his or her own noncommercial use from land owned or leased by him or her. Noncommercial use does not include the extraction of coal by one unit of an integrated company or other business or nonprofit entity which uses the coal in its own manufacturing or power plants;

412. The extraction of 250 tons of coal or less by a person conducting coal mining and reclamation operations. A person who intends to remove more than 250 tons is not exempted;

413. The extraction of coal as an incidental part of federal, state or local government-financed highway or other construction in accordance with R614-102.

414. The extraction of coal incidental to the extraction of other minerals where coal does not exceed 16-2/3 percent of the mineral tonnage removed for commercial use or sale; or

415. Coal exploration which removes less than 250 tons of coal on lands subject to the requirements of 43 CFR Parts 3480-3487.

420. Existing Structure Exemption. Each structure used in connection with or to facilitate coal exploration or coal mining and reclamation operations will comply with the performance standards and design requirements of R614-301 and R614-302, except that:

421. An existing structure which meets the performance standards but does not meet the design requirements of R614-301 and R614-302 may be exempted from meeting those design requirements by the Division. The Division may grant this exemption only as part of the permit application process after obtaining the information required by R614-301-526.110 through R614-301-526.115.4 and after making the findings required by R614-300-130.

422. If the performance standard of the MC Rules (Interim Program Rules) is at least as stringent as the comparable performance standard of the R614 Rules, an existing structure which meets the performance standards of the MC Rules may be exempted by the Division from meeting the design requirements of the R614 Rules. The Division may grant this exemption only as part of the permit application process after obtaining the information

R614-200- COAL EXPLORATION: INTRODUCTION

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;