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

Michael O. Leavitt  
Governor  
Kathleen Clarke  
Executive Director  
Lowell P. Braxton  
Division Director

1594 West North Temple, Suite 1210  
PO Box 145801  
Salt Lake City, Utah 84114-5801  
801-538-5340  
801-359-3940 (Fax)  
801-538-7223 (TDD)

December 10, 2001

Chuck Semborski, Environmental Supervisor  
Energy West Mining Company  
P.O. Box 310  
Huntington, Utah 84528

Re: Approval of Coal Exploration Drilling Project of Lease ML 48258, PacifiCorp, Deer Creek Mine, C/015/018-EX01J, Outgoing File

Dear Mr. Semborski:

The above-referenced exploration has Division approval. Prior to conducting minor exploration you will also need to obtain a Special Use and/or a Road Use Permit from the U.S. Forest Service. A copy of our Technical Analysis is enclosed for your information.

If you have any questions, please call me at (801) 538-5268 or Stephen J. Demczak at (435) 613-5242.

Sincerely,

A handwritten signature in cursive script, appearing to read "Pamela Grubaugh-Littig".

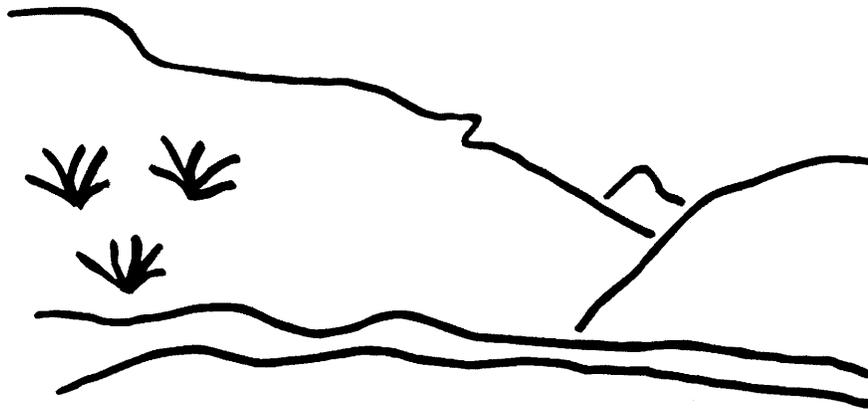
Pamela Grubaugh-Littig  
Permit Supervisor

sjd/db  
Enclosure

cc: Joe Wilcox, OSM w/o  
Richard Manus, BLM w/o  
Elaine Zieroth, USFS w/o  
Mark Page Water Rights w/o  
Dave Ariotti, DEQ w/o  
Derris Jones, DWR w/o  
Steve Boyden, SITLAW/o  
Price Field Office

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# State of Utah



## Utah Oil Gas and Mining

### Coal Regulatory Program

Deer Creek Mine  
Exploration of ML-48258  
C/015/018-EX01J  
Minor Exploration Analysis and Findings  
December 4, 2001

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## EXPLORATION TECHNICAL ANALYSIS

### INTRODUCTION

Energy West is proposing to conduct a helicopter-assisted minor coal exploration drilling during the year 2002. The permittee has plans to core-drill eight holes by using this method. The drilling will take place in Crandall, Mill Fork, and Joe's Valley Canyons. The proposed drill is located within the current Utah State Coal Lease ML-48258, and the United States Forest Service administrates the surface land. This project is to analyze seam characteristics and coal thickness.

The holes will be drilled using a helicopter-transported drill rig in accordance with the Utah State Coal Lease ML-48258 application for the Notice of Intention of Conduct Minor Coal Exploration. Less than 250 tons of coal will be removed. The permittee has recently conducted minor exploration using this method at Mill Fork Canyon and adjacent areas.

The School and Institutional Trust Lands Administration concur with the proposed notice of intent to conduct minor coal exploration on coal lease ML 48258. A letter dated November 21, 2001 was sent to Mr. Semborski of Energy West Mining Company.

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December 4, 2001

**INTRODUCTION**

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**SUMMARY OF PERMIT CONDITIONS**

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## **SUMMARY OF PERMIT CONDITIONS**

As determined in the analysis and findings of this Technical Analysis, approval of the plan is subject to the following Permit Conditions. The applicant is subject to compliance with the following Permit Conditions and has committed to comply with the requirements of these conditions as referenced in the approved permit.

Accordingly, the permittee has committed to comply with the requirements of the following Permit Condition, as specified, and in accordance with the requirements of:

**R645-202-232**, Prior to conducting minor exploration, the applicant must receive Special Road Use Permits from the U. S. Forest Service.

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December 4, 2001

**SUMMARY OF PERMIT CONDITIONS**

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COAL EXPLORATION

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## COAL EXPLORATION

Regulatory Reference: R645-200.

### SCOPE AND RESPONSIBILITIES

Regulatory Reference: 30 CFR 772.1; 30 CFR 772.10; 30 CFR 772.11; R645-100-400; R645-200-100; R645-200-200; R645-201-100.

#### Analysis:

PacifiCorp has proposed to conduct minor exploration by drill eight holes within the Mill Fork Coal Lease ML-48258 in the year 2002.

The permittee has committed to comply with the requirements of R645-200 through R645-203.

This minor coal exploration will be conducted on Utah State Coal Lease ML-48258 and the United States Forest Service administrates the surface land; therefore, 43 CFR Part 3480-3487 does not apply.

#### Findings:

The information given is to address the requirement of State program and R645-200 through R645-203. The information that was submitted is complete but not necessarily adequate until a review of each regulation is made within this document.

## REQUIREMENTS FOR NOTICE OF INTENTION TO CONDUCT MINOR COAL EXPLORATION

Regulatory Reference: 30 CFR 772.10; 30 CFR 772.11; R645-100-412; R645-201-200.

#### Analysis:

R645-201-221, the coal rule requires the applicant to give name, address, and telephone number of the applicant's representatives, who will be present at and responsible for conducting the exploration operations. This information has been submitted in the Notice of Intent on Page 2.

R645-100-400, R645-200-100, R645-200-200, and R645-201-100; Energy West Mining has given a Notice of Intention to Conduct Minor Coal Exploration with a narrative and map describing the exploration area and indicating where the exploration will occur.

**COAL EXPLORATION**

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The permittee will transport drilling equipment, materials, and personnel by helicopter. The drill sites will be relatively level (20 percent slope or less). There will be no removal of vegetation such as grasses and trees, but dead-fall and some taller shrubs (mahogany) or aspen trees will be removed for safety reasons.

The drill site will not be greater than 40 feet by 40 feet area. Brattice or other similar material will be placed on the ground beneath the drill rig. Minor digging, using hand tools may be necessary to level the drill rig using wood block or other materials.

A maximum of twenty pounds of coal will be removed per drill hole with a total of about 160 pounds from all the drill holes. This will be achieved by drilling a three-inch diameter hole. Upon completion, the drill hole will be sealed with cement from the bottom of the hole to ground level.

The exploration is projected to start on June 15, 2002 and end on or near September 15, 2002.

**Findings:**

The applicant has given all of the necessary information as requirements of R645-201-221 such as name, address, and telephone number.

The permittee has submitted the necessary information to comply with regulations R645-100-400, R645-200-100, R645-200-200, and R645-201-100 in the analysis.

COMPLIANCE DUTIES

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## COMPLIANCE DUTIES

Regulatory Reference: 30 CFR 772.13; R645-202.

### REQUIRED DOCUMENTS

Regulatory Reference: 30 CFR 772.13; R645-202-100.

#### Analysis:

The permittee stated to have a copy of the Notice of Intent to Conduct Minor Coal Exploration for review by an authorized representative of the Division upon request.

#### Findings:

The permittee has met the minimum requirements of this section in the R645 Coal Rules.

### OPERATIONAL STANDARDS

Regulatory Reference: 30 CFR 772.13; R645-202-200.

#### Analysis:

R645-202-200; Energy West Mining will not substantially disturb the land surface and will remove less than 250 tons of coal.

PacifiCorp has committed to comply with all coal exploration requirements of the State Program, and any conditions on approval of the exploration plan.

#### Biology

The primary land uses associated with the area are wildlife habitat, primary mule deer, and elk. The proposed drilling is not expected to have a detrimental impact on any of these species.

PacifiCorp has conducted several surveys for Threatened, Endangered and Sensitive (TES) plant and animal species for various projects associated with this area. The projects associated with this area were Rilda Canyon (Surface Facilities, Permit Extension and Powerline) and the Mill Fork coal leasing process. Results were no TES plants and animals have been found in the area of the proposed drill holes.

## COMPLIANCE DUTIES

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Energy West, in corporation with the Division of Wildlife Resources, conducts an annual raptor survey in and adjacent to permit boundaries, including the Mill Fork State Lease ML-48258. The last survey was conducted on May 18, 2001 see Page12 of the submittal for locations and status of the 2001 survey. The next raptor survey is scheduled for May 2002.

The drilling program is scheduled on June 15, 2002 to reduce the potential of raptor impacts. To further reduce potential raptor impacts, all non-essential flights will be conducted at 1000 feet above the ground.

### **Roads**

PacifiCorp will use only existing roads for this project no new roads will be constructed. The applicant of the Notice of Intent will be using US Forest Service roads for staging areas of heavy equipment. The US Forest Service will be notified 48 hours in advance of heavy equipment traveling on the road.

The applicant will be using U.S. Forest Development Roads #245 and #040. Prior to drilling, Energy West will obtain a permit for the use of these roads.

### **Topsoil**

Topsoil will be separately removed, stored, and redistributed on areas disturbed by coal exploration activities. The method of drilling used by PacifiCorp will disturb a small amount of topsoil. The leveling of the drill rig and associated equipment may require a small amount of excavation. Brattice cloth is to be used to cover the ground to protect the topsoil and surface vegetation.

### **Diversions of Overland flows and streams**

The applicant will not construct diversions or affect overland flows and streams. However, the applicant will be pumping water from streams for the drilling operation. The method is to lay an intake hose directly into the stream and pump the water to the drill site. The pump will be located near the stream. Using this method will not disturb the stream.

PacifiCorp has obtained the necessary permissions and water rights actions to take water for drilling from local drainages. The amount of water required for the project is estimated at 160,00 gallons for the entire drilling program.

### **Hydrologic Balance**

The minor exploration project will have minor surface disturbance. The disturbance is limited to leveling the rig and associated structures. There will be no construction of a drill pad or impoundments; therefore, the impact on the hydrologic balance will be minimal, if any.

**COMPLIANCE DUTIES**

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**Acid- or toxic forming materials**

The applicant has committed to handle and dispose of acid or toxic forming materials in accordance with R645-301-731.100 and R645-301-731.300.

During the drilling operation, water and drilling fluids will be recirculated to the extent possible. Any returned cuttings and other material will be captured in a container at the drill site. The cutting material will be transported from the drill site to the staging area by helicopter and then by vehicle to the Deer Creek or Cottonwood Waste Rock Sites for disposal.

If spills occur, all affected material will be removed from the site and disposed of at an approved location. If soil is removed during spill containment and clean up, the site of removal will be reconstructed and seeded with the approved seed mixture.

**Findings:**

The information given is found to meet the requirements of the R645 Minor Coal Exploration performance/operational standards.

**RECLAMATION STANDARDS**

Regulatory Reference: 30 CFR 772.13; R645-202-200.

**Analysis:**

**Approximate original contour**

The drill site areas will be basically flat with no major excavation occurring. Minor shoveling may be needed for leveling the drill rig. The area will be at approximate original contour.

**Revegetation**

Only minor surface disturbances are expected from the drilling activities. All surface disturbances will be repaired and re-seeded using hand tools. The proposed seed mixture does meet the requirements of the regulations.

The basic mix contains more aggressive erosion control type species and should be used to seed any areas where erosion could potentially become a problem. The supplements are less aggressive wild flowers that are important for diversity and maintaining non-game animal species and should be seeded alone and in areas where erosion is unlikely.

The applicant will, when possible, purchase individual seed packets, not pre-mixed.

### **Boreholes**

Groundwater is not anticipated. However, if ground water is present it will be reported to (SITLA, USFS, and DOGM) and a determination will be made regarding the modification of the drill hole to a monitoring well.

Upon completion, each drill hole will be completely sealed with cement/bentonite from the bottom of the hole to ground level. Enough cement will be mixed and pumped into the hole to completely seal the coal horizon. The remainder of the hole will be filled completely with bentonite slurry to within five feet of the surface. A cement surface plug will fill the top five feet. A brass monument marker will be placed in the top of the cement surface plug with the hole number and year.

### **Facilities and Equipment**

All drilling equipment and materials will be removed from the drill area once drilling is completed. Sealing will start thereafter and all equipment and material for sealing drill holes will be removed when sealing is completed.

### **Findings:**

The information for this section is considered adequate to meet the requirements of this section of the Letter of Intent.

**PUBLIC AVAILABILITY OF INFORMATION**

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**PUBLIC AVAILABILITY OF INFORMATION**

Regulatory Reference: 30 CFR 772.15; R645-203.

**Analysis:**

The Division will have a copy of the Notice of Intent to Conduct Minor Coal Exploration at the Division of Oil, Gas and Mining office.

**Findings:**

The Division will have a copy of the Notice of Intent to Conduct Minor Coal Exploration at the Division of Oil, Gas and Mining office.