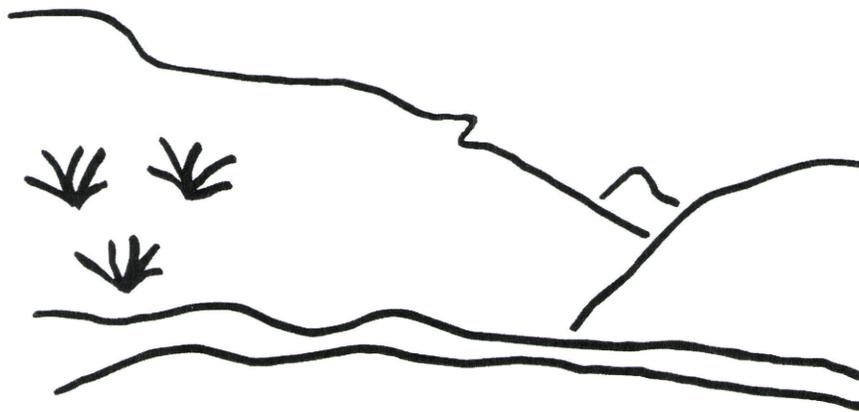


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State of Utah



Utah Oil Gas and Mining

Coal Regulatory Program

Deer Creek Mine
PacifiCorp
C/015/0018
Task ID #4336
Minor Exploration Analysis and Findings
June 4, 2013

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EXPLORATION TECHNICAL ANALYSIS

INTRODUCTION

PacifiCorp proposes to drill a total of one (1) coal exploration hole within federal coal lease UTU-88554 below East Mountain. It is schedule to begin upon the completion of this document.

The method of drilling will be helicopter assisted, and will be the primary mode of transportation for drilling equipment and personnel. However, a road from Cottonwood Canyon via the East Mountain Access road can be used.

A three inch maximum diameter hole will be core or rotary drilled for the entire length of the hole. The total length or depth of the hole will be approximately 2,150 feet.

The applicant will remove less than 250 tons of coal will be removed and there will be no major disturbance to the land.

The completion of date of the drilling project will be by October 31, 2013.

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 drilling one (1) exploration hole on top of East Mountain on Federal Coal Lease UTU-88554.

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

This minor coal exploration will be conducted on Federal Leases UTU-88554 and the United States Forest Service administrates the surface land; therefore, 43 CFR Part 3480-3487 does not apply.

Findings:

The applicant has met the minimum requirements of this section.

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:

Coal Rule R645-201-221 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; Pacificorp, has given a Notice of Intention to Conduct Minor Coal Exploration with a narrative and maps describing the exploration area and indicating where the exploration will occur. The Applicant will transport drilling equipment, materials, and personnel by Helicopter for one (1) drill hole.

All drill sites will be relatively level (5 percent slope or less). There will be no removal of vegetation such as grasses and trees, but deadfall and some taller shrubs maybe removed. The drilling equipment will be brought in by helicopter.

The drill pad area will be no greater than a 40 ft. x40 ft. area.

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

The drill is schedule to start on May 4, 2013 and end October 31, 2013.

Findings:

The applicant has met the minimum requirements of this section.

COMPLIANCE DUTIES

Regulatory Reference: 30 CFR 772.13; R645-202.

Analysis:

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

OPERATIONAL STANDARDS

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

Analysis:

Biology

No TES species and animals have been found in the area of the propose drill hole. This is indicated on Coal Exploration map submitted within the Letter of Intent. The area is classified by the Division of Wildlife Recourses as Mule Deer and Elk High Priority Range.

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 #040 and East Mountain road FDR 145. A U.S. Forest Service Special-Use Permit is not required because it is within the existing permit area.

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 will obtain the necessary permissions and water rights actions to take water for drilling from local drainages. A temporary exchange application will be filed to State of Utah, Division of Water Rights. The annual diversion and depletion limits may not exceed .470 acre-foot and .4669 acre-foot of water respectively.

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.

Acid- or toxic forming materials

The applicant states, "Acid or toxic forming materials will be handled and disposed of in accordance with R645-301-731.110, R645-301-731.300 and R645-301-553.260". Past drilling has shown "No acid- toxic earth materials or coal waste will be produced used or handled during the drilling program.

Roads

Findings:

The applicant does meet the minimum requirements of this section.

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

All disturb area will be promptly vegetated. All areas disturb will be seeded or planted with the same seasonal variety native to the areas disturbed. The seed mix is indicated on Page 13 of the Letter of Intent. The Division recommends the removal of Columbia needle grass, Sandbergs bluegrass, Pacific aster and Slender wheatgrass.

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 applicant has met the minimum requirements of this section in the R645 Coal Rules. However, the Division has made recommendation in the seed mix.

PUBLIC AVAILABILITY OF INFORMATION

Regulatory Reference: 30 CFR 772.15; R645-203.

Analysis:

All information submitted to the Division under R645-200 will be made available for public inspection except as provided in R645-203-200.

Findings:

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