



An Affiliate of Cyprus Coal Company
P.O. Drawer PMC
Price, Utah 84501
(801) 637-2875

September 16, 1988

RECEIVED
SEP 19 1988

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

**DIVISION OF
OIL, GAS & MINING**

Re: Notice of Intent to Explore 88-1

Dear Mr. Braxton:

Enclosed is a Notice of Intent to Explore.

This notice is for the monitoring well and monitoring holes for the joint U.S.G.S., DOGM Groundwater, Surface Water Study.

Very minimal disturbance is needed for this exploration as the holes will be only approximately 300 feet deep and the drill will be flown to the site by helicopter.

We appreciate the opportunity to participate with the Division and the U.S.G.S. in this study.

Sincerely,

A handwritten signature in black ink that reads 'Ben Grimes'.

Ben Grimes
Senior Environmental Engineer

BG:pb

Enclosures

File No. ENV 2-5-2-9
Chrono No. BG 88-0904

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SEP 19 1988

DIVISION OF
OIL, GAS & MINING

NOTICE OF INTENT TO EXPLORE

LESS THAN 250 TONS

EXPLORATION PERMIT 88-1

CYPRUS PLATEAU MINING CORPORATION

ACT/007/006

SEPTEMBER 16, 1988

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EXPLANATION OF EXPLORATION PROGRAM 88-1

Cyprus Plateau Mining Corporation, the U.S. Geological Survey, and the Division of Oil, Gas and Mining, are jointly proposing a study to determine the effects of longwall mining on a perennial stream, groundwater, and ground strata. The study area is located in Section 18, Township 15 South, Range 8 East, Salt Lake Base and Meridian. The surface land is owned by U.S. Fuel Company, and the coal reserves are owned by Cyprus Plateau Mining Corporation. Cyprus Plateau acquired rights with the reserves to use the surface for purposes of mining.

An integral part of the study is to establish a groundwater monitoring well and a strata monitoring hole. This application is for drilling holes from the surface to accommodate both the monitoring well and the strata monitoring hole.

This application addresses the pertinent requirements of UMC 776, UMC 815, and UMC 817.

UMC 776.11 GENERAL REQUIREMENTS: EXPLORATION OF LESS THAN 250 TONS

(a) ANY PERSON WHO INTENDS TO CONDUCT COAL EXPLORATION DURING WHICH LESS THAN 250 TONS OF COAL WILL BE REMOVED IN THE AREA TO BE EXPLORED SHALL, PRIOR TO CONDUCTING THE EXPLORATION, FILE WITH THE DIVISION A WRITTEN NOTICE OF INTENTION TO EXPLORE.

(b) THE NOTICE SHALL INCLUDE--

(1) THE NAME, ADDRESS, AND TELEPHONE NUMBER OF THE PERSON SEEKING TO EXPLORE:

Response:

Cyprus Plateau Mining Corporation
P.O. Drawer PMC
Price, Utah 84501
(801) 637-2875

(2) THE NAME, ADDRESS, AND TELEPHONE NUMBER OF THE REPRESENTATIVE WHO WILL BE PRESENT AT, AND RESPONSIBLE FOR CONDUCTING THE EXPLORATION ACTIVITIES:

Response:

Greg Hunt
Cyprus Plateau Mining Corporation
P.O. Drawer PMC
Price, Utah 84501
(801) 637-2875

*(3) A PRECISE DESCRIPTION AND MAP, AT A SCALE OF 1:24,000 OR LARGER, OF THE EXPLORATION AREA;

Response:

Exploration will consist of two or three exploratory drill holes, approximately 300 feet deep, located in Section 18, Township 15 South, Range 8 East, Salt Lake Base and Meridian as shown on Map 1 enclosed.

(4) A STATEMENT OF THE PERIOD OF INTENDED EXPLORATION;

Response:

Exploration will commence on or about September 26, 1988, and will be completed on or about October 26, 1988.

*(5) IF THE SURFACE IS OWNED BY A PERSON OTHER THAN THE PERSON WHO INTENDS TO EXPLORE, A DESCRIPTION OF THE BASIS UPON WHICH THE PERSON WHO WILL EXPLORE CLAIMS THE RIGHT TO ENTER SUCH AREA FOR THE PURPOSE OF CONDUCTING EXPLORATION AND RECLAMATION; AND

Response:

The surface is owned by U.S. Fuel Company. The Cyprus Plateau Mining Corporation has entered into an agreement to buy the coal reserves beneath the surface dated December 13, 1985.

Plateau has the right to enter upon the land for purposes of permitting and mining as can be seen in Article 1(a) of the agreement as follows:

THE RIGHT OF INGRESS AND EGRESS TO THE SURFACE OF SECTION 18, TOWNSHIP 15 SOUTH, RANGE 18 EAST, SLM, LIMITED TO SUCH USE OF SAID SURFACE AS MAY BE REASONABLY NECESSARY FOR MINING COAL FROM THE DESCRIBED AREA OF SECTION 18, TOWNSHIP 15 SOUTH, RANGE 8 EAST, SLM, OR TO COMPLY WITH PERMITS ISSUED BY STATE FEDERAL AND LOCAL REGULATORY AUTHORITIES RELATIVE TO SAID LAND AND

(6) A DESCRIPTION OF THE PRACTICES PROPOSED TO BE FOLLOWED TO PROTECT THE ENVIRONMENT FROM ADVERSE IMPACTS AS A RESULT OF THE EXPLORATION ACTIVITIES.

Response:

The holes will be drilled using a portable rotary drill rig which will be air lifted to the site by helicopter. The drill pad will be approximately 10 feet wide and 20 feet long. No roads or trails exist to access the site; therefore, the only disturbance will be the pad, which will be constructed by hand.

The site is in close proximity to the North Fork of the Right Fork of Miller Creek. Care will be taken to protect the stream from contamination by the drilling operation. The drillers will be instructed to contain any

contamination to the drill pad, and take all measures necessary to prevent environmental degradation.

Topsoil will be deposited on the downhill side of the pad, where it will be available for reclamation.

The pad will be reclaimed and seeded with a seed mixture as shown on Table 1. Reclamation will be done the first available season after the project is completed.

(c) ANY PERSON WHO CONDUCTS COAL EXPLORATION ACTIVITIES PURSUANT TO THIS SECTION WHICH SUBSTANTIALLY DISTURB THE NATURAL LAND SURFACE SHALL COMPLY WITH UMC 815.

Response:

This drilling project does not create substantial disturbance.

UMC 817.13 CASING AND SEALING OF EXPOSED UNDERGROUND OPENINGS: GENERAL REQUIREMENTS

EACH EXPLORATION HOLE, OTHER DRILL HOLE OR BOREHOLE, SHAFT, WELL, OR OTHER EXPOSED UNDERGROUND OPENING SHALL BE CASED, LINED, OR OTHERWISE MANAGED AS APPROVED BY THE DIVISION TO PREVENT ACID OR OTHER TOXIC DRAINAGE FROM ENTERING GROUND AND SURFACE WATERS, TO MINIMIZE DISTURBANCE TO THE PREVAILING HYDROLOGIC BALANCE AND TO ENSURE THE SAFETY OF PEOPLE, LIVESTOCK, FISH AND WILDLIFE, AND MACHINERY IN THE MINE PLAN AND ADJACENT AREA. EACH EXPLORATION HOLE, DRILL HOLE OR BOREHOLE OR WELL THAT IS UNCOVERED OR EXPOSED BY MINING ACTIVITIES WITHIN THE PERMIT AREA SHALL BE PERMANENTLY CLOSED, UNLESS APPROVED FOR WATER MONITORING OR OTHERWISE MANAGED IN A MANNER APPROVED BY THE DIVISION. USE OF A DRILLED HOLE OR MONITORING WELL AS A WATER WELL MUST MEET THE PROVISIONS OF SECTION UMC 817.53 OF THIS PART. THIS SECTION DOES NOT APPLY TO HOLES DRILLED AND USED FOR BLASTING, IN THE AREA AFFECTED BY SURFACE OPERATIONS.

Response:

The exploration holes will be either cased with plastic pipe or will be left uncased as the conditions of the hole dictate or as monitoring equipment may require.

No acid or toxic drainage exist in the exploration area. The wells will be provided with casing at the surface which will be sealed to prevent contamination of the groundwater.

UMC 817.14 CASING AND SEALING OF UNDERGROUND OPENINGS: TEMPORARY

(a) EACH MINE ENTRY WHICH IS TEMPORARILY INACTIVE, BUT HAS A FURTHER PROJECTED USEFUL SERVICE UNDER THE APPROVED PERMIT APPLICATION, SHALL BE PROTECTED BY BARRICADES OR OTHER COVERING DEVICES, FENCED, AND POSTED WITH SIGNS, TO PREVENT ACCESS INTO THE ENTRY AND TO IDENTIFY THE HAZARDOUS NATURE OF THE OPENING. THESE DEVICES SHALL BE PERIODICALLY INSPECTED AND MAINTAINED IN GOOD OPERATING CONDITION BY THE PERSON WHO CONDUCTS THE UNDERGROUND COAL MINING ACTIVITIES.

(b) EACH EXPLORATION HOLE, OTHER DRILL HOLE OR BOREHOLE, SHAFT, WELL, AND OTHER EXPOSED UNDERGROUND OPENING WHICH HAS BEEN IDENTIFIED IN THE APPROVED PERMIT APPLICATION FOR USE TO RETURN UNDERGROUND DEVELOPMENT WASTE, COAL PROCESSING WASTE OR WATER TO UNDERGROUND WORKINGS, OR TO BE USED TO MONITOR GROUNDWATER CONDITIONS, SHALL BE TEMPORARILY SEALED UNTIL ACTUAL USE.

Response:

The wells will be fitted with a lockable cap to prevent physical damage to humans or animals, and to protect the integrity of the well.

UMC 817.15 CASING AND SEALING OF UNDERGROUND OPENINGS: PERMANENT

WHEN NO LONGER NEEDED FOR MONITORING OR OTHER USE APPROVED BY THE DIVISION UPON A FINDING OF NO ADVERSE ENVIRONMENTAL OR HEALTH AND SAFETY EFFECTS, OR UNLESS APPROVED FOR TRANSFER AS A WATER WELL UNDER SECTION UMC 817.53, EACH SHAFT, DRIFT, ADIT, TUNNEL, EXPLORATORY HOLE, ENTRYWAY OR OTHER OPENING TO THE SURFACE FROM UNDERGROUND SHALL BE CAPPED, SELED, BACKFILLED, OR OTHERWISE PROPERLY MANAGED, AS REQUIRED BY THE DIVISION, IN ACCORDANCE WITH SECTIONS UMC 817.13 and 817.50 AND CONSISTENT WITH 30 CFR 75.1711. PERMANENT CLOSURE MEASURES SHALL BE DESIGNED TO PREVENT ACCESS TO THE MINE WORKINGS BY PEOPLE, LIVESTOCK, FISH AND WILDLIFE, MACHINERY, AND TO KEEP ACID OR OTHER TOXIC DRAINAGE FROM ENTERING GROUND OR SURFACE WATERS.

Response:

When no longer needed, exploration holes and monitoring wells will be sealed from the bottom of the hole to the top with cement.

TABLE 1

SEED MIX

SPECIES SEEDING RATE IN PLS LBS/ACRE

GRASSES

Bluebunch Wheatgrass	2
<i>thick spike</i> Slender Wheatgrass	2
Kentucky Bluegrass	1
Intermediate Wheatgrass	1
Timothy	1.5
Orchardgrass	1.5
Meadow Foxtail	1.5
Manchar Smooth Brome	1.5
Chewings Red Fescue	1.5

FORBS

Western Yarrow <i>yellow sweetclover</i>	1.5
Utah Sweet Vetch	1.5

SHRUBS

Mountain Snowberry	2
Woods Rose	<u>2</u>

TOTAL 20.5

Seed mix based on research conducted at the U.S. Forest Service Research Station at Ephriam and Logan, Utah, for high mountain elevations.