



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

Michael O. Leavitt
 Governor

Ted Stewart
 Executive Director

James W. Carter
 Division Director

355 West North Temple
 3 Triad Center, Suite 350
 Salt Lake City, Utah 84180-1203
 801-538-5340
 801-359-3940 (Fax)
 801-538-5319 (TDD)

May 2, 1995

TO: Daron Haddock, Permit Supervisor

FROM: Steven M. Johnson, Reclamation Hydrologist *SMT*

RE: Draft Review, IBC--Remote Fan Installation, Centennial Project, Andalex Resources, ACT/007/019, Working File, Carbon County, Utah

Folder # 2 and Permit Binders

SYNOPSIS

Andalex Resources, Inc. submitted an amendment to their Mining and Reclamation Plan (MRP) for the construction of a new fan portal on September 12, 1994, on October 24, 1994 and on February 21, 1995. The first submittals were not approved by the Division so Andalex Resources resubmitted on April 18, 1995. The project requires an incidental boundary change (IBC). The hydrology of the submittal was reviewed on May 2, 1995.

ANALYSIS

HYDROLOGIC INFORMATION

Regulatory Reference: R645-301-722.500, 731.100, 731.600, 732.400, 742, 742.110, 742.300, 742.313, 742.320, 742.400, 751, 752, 760, 762

Analysis:

Construction of the fan portal and pad area in Left-Hand Fork of Deadman Canyon will require road improvements to an existing trail. The Bureau of Land Management (BLM) right of way application shows that the road will be graded from the existing county road to the fan portal pad. The purpose of the right-of-way is construction and maintenance access to the fan facility. Andalex has included two culverts in the design of the road and a series of water bars to rout water off of the road. The first culvert, located in the main canyon, is near the junction of the new road and the county road. The second is located below the pad fill, and is called the Upper Canyon Culvert. Andalex has included calculations and designs for the culverts. Portions of the road and the pad, and the entire topsoil pile are shown to be located within 100 feet of the stream channel.

Andalex proposes to build a road and pad within 100 feet of the Left-Hand Fork stream channel. The drainage area for this reach is greater than one square mile, so, by regulation, this is an intermittent stream. No stream alteration permit is required by the Utah Division of Water Rights because it is not by their definition a an intermittent or perennial stream. However, by the Utah coal mining rules it is an intermittent stream so all regulation regarding that definition, including stream buffer zones should be addressed to comply with R645-301-731.600, 732.400, and 742.320.

Sediment control is shown on a Plate LF-1, Aberdeen Mine Left-Hand Fork Fan Installation Sedimentation/Drainage Control, as silt fence and/or straw dike along the base of the pad fill. Berms and a ditch will route flow from the upper portions of the pad to the sediment control measure. Top soil will be placed up canyon from the pad and will be encompassed by a berm.

The use of alternate sediment control measures is allowable by the regulations. A diversion is shown on the map to help route flow to the sediment control, but there were no designs included for this diversion. Miscellaneous diversions should be designed to convey the 2-year, 10-hour storm event for miscellaneous flows (R645-301-742.333). Andalex has not included plans for sediment control in the construction stages of the pad and road and in the reclamation stages of these facilities. It is assumed that sediment control on the topsoil pile is a retention berm, but no design for such berm was included.

Findings:

Andalex has satisfied the requirement of R645-301-700 in their amendment for the construction of a Fan Portal and Pad in Left-Hand Fork of Deadman Canyon. The area is small so the designed sediment control consisting of berms and silt fence is best technology currently available. Andalex has shown that these operation, though within 100-feet of an intermittent channel, will not adversely effect the quantity or quality of the water.

RECOMMENDATION

Andalex has fulfilled the hydrologic requirements necessary to permit the construction of a pad and fan portal in Left-Hand Fork of Deadman Canyon. However, Andalex must complete all construction within 100-feet of the stream channel at a time when no water is present in the channel. Further, representatives from Andalex and the Division must meet prior to implementation of this plan to consolidate the four submittals received by the division and insure a accurate document.