



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

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March 17, 1995

TO: Daron Haddock, Permit Supervisor

FROM: Wayne H. Western, Reclamation Engineer *WHW*

RE: IBC Remote Fan Installation, Andalex

Folder #2
And Permit Bids

ACT/ODD/019

ROAD SYSTEMS AND OTHER TRANSPORTATION FACILITIES

Regulatory Reference: 30 CFR Sec. 784.24, 817.150, 817.151;
 R645-301-521, -301-527, -301-534, -301-732.

Analysis:

Road Systems

The Operator states in the PAP entitled IBC Remote Fan Installation dated February 21, 1995 that:

Upon completion of construction of the left hand fork installation, Andalex will preform a slope stability study to ensure that all road embankments of a minimum static safety factor of 1.3. This study will also determine that the cut and fill slopes of the pad have a minimum static safety factor of 1.3. It should be noted that the construction of the pad will be consistent with common construction practices including limiting the thickness of lifts to a maximum of four (4) feet.

In the technical review dated December 5, 1994 the Division said that:

The Operator must prove that all road embankments have a minimum static safety factor of 1.3.

Before the permit is issued, the Operator must show his ability to meet the minimum static safety requirements for the road embankments.



In a telephone conversation between Mike Glasson and Wayne Western on March 16, 1995 they discussed the need for a slope stability study. Mr. Glasson agreed to have a consultant (Dan Guy) conduct a slope stability analysis on the road embankment and pad. Mr. Western offered to allow the Operator or his consultant accepts to the Division's slope stability program.

The Operator has agreed to limit the lift high off the pad and all roads to a maximum of four feet. The maximum height of the lifts may have to be reduced depending on the slope stability study. If the soil needs to have a high cohesion to meet the minimum static safety factor then the lift height must be reduced.

Findings:

The Operator did not demonstrate that the road embankments meet the minimum static safety requirement. In a telephone conversation, he agreed to have a consultant conduct the stability analysis.

Recommendations:

Do not issue the permit until the Operator demonstrates that the road embankments meet the minimum static.

RECLAMATION PLAN

GENERAL REQUIREMENTS

Regulatory Reference: PL 95-87 Sec. 515 and 516; 30 CFR Sec. 784.13, 784.14, 784.15, 784.16, 784.17, 784.18, 784.19, 784.20, 784.21, 784.22, 784.23, 784.24, 784.25, 784.26; R645-301-231, -301-233, -301-322, -301-323, -301-331, -301-333, -301-341, -301-342, -301-411, -301-412, -301-422, -301-512, -301-513, -301-521, -301-522, -301-525, -301-526, -301-527, -301-528, -301-529, -301-531, -301-533, -301-534, -301-536, -301-537, -301-542, -301-623, -301-624, -301-625, -301-626, -301-631, -301-632, -301-731, -301-723, -301-724, -301-725, -301-726, -301-728, -301-729, -301-731, -301-732, -301-733, -301-746, -301-764, -301-830.

Analysis:

The Operator states that:

Reclamation of the pad, which is shown on the Cut Fill Cross section Plates, will occur immediately after cessation of mining. Reclamation will consist of

culvert removal with appropriate drainage protection, and regrading and backfilling to the original contour. This will be followed by replacement of topsoil and appropriate sediment control such as straw dikes and silt fences will be employed to prevent additional sediment contributions to the drainage system.

The Division requested a contour map of the site after reclamation. The Division needs a contour map of the site in order to determine whether the reclamation requirements can be met. The Operator did not include a map showing the post-mining land configuration.

Findings:

The Operator did not supply the Division with a contour map showing the post-mining surface of the fan portal area and road as stipulated in the December 5, 1994 technical review.

Recommendation:

Do not issue the permit until the Operator supplies the Division with a map that shows the post-mining contours at the remote fan installation.

fanmar.whw