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DEPARTMENT OF NATURAL RESOURCES
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TO: Daron Haddock, Permit Supervisor

FROM: Priscilla Burton, Reclamation Specialist

DATE: January 2, 1992

RE: **PERMIT RENEWAL, TECHNICAL DEFICIENCIES. CENTENNIAL MINE. ANDALEX RESOURCES. ACT/007/019. CARBON COUNTY. UTAH. FOLDER #2.**

SUMMARY:

The Soils section of Andalex Resource's Centennial Mine Plan requires some updating. The plan received on September 14, 1990 does not record events that have transpired since the original mine plan was written. i.e., records of waste-rock sampling, records of roof and floor sampling. The mine will have a deficiency of topsoil upon reclamation. Testplots on substitute topsoil medium were refered to in the plan, but no observations have been presented with this submittal.

TECHNICAL DEFICIENCIES:

R645-301-224. Substitute Topsoil. Where the applicant proposes to use selected overburden materials as a supplement or substitute for topsoil, the application will include results of analyses, trials, and tests as described under R614-301-232.100 through R614-301-232.600, R614-301-234, R614-301-242, and R614-301-243. The Division may also require the results of field-site trials or greenhouse tests as required under R614-301-233.

Applicant's Proposal:

On page 114 of the MRP, there is a discussion of test plot locations for substitute topsoil. The reader is refered to Plate 7. Page 74, sec 2.2 also refers to the "new substitute topsoil pile plan." Sediment control for the area is discussed here.

Technical Analysis:

Plate 7 does not show the location of the substitute topsoil pile. Plate 6 does not show this location either. There is no

summary of evaluation or observations of the test plots on the substitute topsoil.

Stipulation R645-301-224 (PWB):

On or before February 29, 1992, revise Plate 7 to indicate the location of the substitute topsoil storage, provide the Division with the amount of substitute material located in the storage pile, with copies of the design, implementation and evaluation of test trials, and with the results of analyses performed on the substitute topsoil medium.

230. Operation Plan.

231.300. Testing plan for evaluating the results of topsoil handling and reclamation procedures related to revegetation; and

231.400. Narrative that describes the construction, modification, use and maintenance of topsoil handling and storage areas.

Applicant's Proposal:

Topsoil storage areas are shown on Plate 6 and are outlined on page 114. Plates 36 and 37 provide volumes for each of the topsoil piles, except storage pile J.

Technical Deficiency:

The plan describes six topsoil storage areas on page 114: A, B, C, F, G, J. Plate 6 shows all topsoil storage areas except storage area B (approximately 13,000 cubic ft of soil). It is possible that storage pile B was added to an existing storage pile (perhaps G?). If this is the case, the narrative must be updated on page 114.

Stipulation R645-301-231.400 (PWB):

On or before February 29, 1992, Plate six will be amended to show the location of topsoil storage area B and the MRP will be amended on page 114 to state the location of topsoil storage area B as well.

232.200. Where the topsoil is of insufficient quantity or poor quality for sustaining vegetation, the materials approved by the Division in accordance with R614-301-233.100 will be removed as a separate layer from the area to be disturbed, and segregated.

Applicant's Proposal:

Page 114 of the MRP indicates that the substitute topsoil is

located in a pad in the area of the shop at the APEX mine.

Technical Deficiencies:

The storage of substitute topsoil material in a facilities pad is unacceptable.

Stipulation R645-301-232.200 (PWB):

On or before February 29, 1992, provide the Division with the location of the substitute topsoil and place a sign on the storage area so that it will be protected.

120. Permit Application Format and Contents.
121. The permit application will:
121.100. Contain current information, as required by R614-200, R614-300, R614-301 and R614-302.
122. If used in the permit application, referenced materials will either be provided to the Division by the applicant or be readily available to the Division. If provided, relevant portions of referenced published materials will be presented briefly and concisely in the application by photocopying or abstracting and with explicit citations.

Applicant's Proposal:

On page 193 of the plan, there is a brief description of the Spill Prevention Control and Countermeasure Plan. Listed as a countermeasure is adherence to the local requirements for the treatment of oil and fuel contaminated soils.

Technical Deficiencies:

Please provide concise plans for the treatment of oil and fuel contaminated soils as required by the locality. The SPCC plan required by Federal law is mentioned, but not included for review.

Stipulation R645-301-122 (PWB):

On or before February 29, provide the Division with an update to page 193, providing a clear and concise plan for the treatment of oil and fuel contaminated soils and include a notarized copy of the Spill Prevention Control and Countermeasure plan as an appendix to the MRP.

528.350. The permit application will include a description of measures to be employed to ensure that all debris, acid-forming and toxic-forming materials, and materials constituting a fire hazard are disposed of in accordance with R614-301-528.330, R614-301-537.200, R614-301-542.740, R614-301-553.100 through R614-301-553.600, R614-301-553.900, and R614-301-747 and a description of the contingency plans which have been developed to preclude sustained combustion of such materials; and

Applicant's Proposal:
Page 43 of the MRP states that roof and floor samples will be provided in Appendix E for all seams mined. Page 192 of the MRP states that mid-seams of all four coal seams will be analyzed on an annual basis.

Technical Deficiencies:

Sampling of the roof and floor of the Centennial seam cannot be found in Appendix E. Results of the annual sampling of the roof and floor of current mining area must be included in the MRP.

Stipulation R645-301-528.350 (PWB):

On or before February 29, 1992, update Appendix E to include sampling of the roof and floor of the Centennial seam and include recent sampling of roof and floor from active mine locations for all four seams.

528.340. Underground Development Waste. For the purposes of UNDERGROUND COAL MINING AND RECLAMATION ACTIVITIES the permit application must include a description of the proposed disposal methods for placing underground development waste and excess spoil generated at surface areas affected by surface operations and facilities according to R614-301-211, R614-301-212, R614-301-412.300, R614-301-512.210, R614-301-512.220, R614-301-514.100, R614-301-528.310, R614-301-535.100 through R614-301-535.130, R614-301-535.300 through R614-301-535.500, R614-536.300, R614-301-536.600, R614-301-542.720, R614-301-553.240, R614-301-745.100, R614-301-745.300, and R614-301-745.400.

536.500. Disposal of Coal Mine Waste in Special Areas.

536.510. Coal mine waste materials from activities located outside a permit area may be disposed of in the permit area only if approved by the Division. Approval will be based upon a showing that such disposal will be in accordance with R614-301-512.230, R614-301-515.200, R614-301-528.320, R614-301-536 through R614-301-536.200, R614-301-536.500, R614-301-542.730, and R614-301-746.100.

536.300. Coal mine waste may be disposed of in excess spoil fills if approved by the Division and, if such waste is:

536.310. Placed in accordance with applicable portions of R614-301-210, R614-301-513.400, R614-301-514.200, R614-301-528.322, R614-301-536.900, R614-301-553.250, and R614-301-746.200;

536.320. Nontoxic and nonacid forming; and

Applicant's Proposal:

Pages 191 and 192 of the MRP discuss the dispoal of underground development waste. Rock which is associated with lump coal is being taken to the applicant's WildCat Loadout (ACT/007/033).

Technical Deficiency:

In correspondence relating to the mid-term review of ACT/007/033, the applicant was found to be deficient in providing the Division with analyses as described on page 23 of the ACT/007/033 plan.

Stipulation R645-301-536.300 to 320 (PWB):

On or before February 29, 1992, provide the Division with copies of the analyses as requested by H. Sauer in correspondence dated 11/22/91, and provide an appendix to the ACT/007/019 plan which summarizes the operation and reclamation plan for the waste stored at Wild Cat.

xc: H Sauer

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