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State of Utah

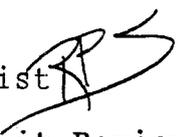
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

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September 11, 1989

TO: Sue Linner, Permit Supervisor

FROM: Rick P. Summers, Reclamation Hydrologist 

RE: Technical Deficiencies, Five-year Permit Review,
Coastal States Energy Company, Skyline Mine,
ACT/007/005, Folder #2, Carbon County Utah

Summary:

The MRP for the Skyline Mine was reviewed relative to hydrology regulations and found to be technically deficient at this time. The deficiencies have largely been discussed at length with mine personnel via telephone during the past few weeks. The deficiencies are enumerated in this memo to serve as an aid to resubmittal. Detailed descriptions of the deficiencies were minimized and the applicant is encouraged to contact me if any questions arise.

Review Comments:

UMC 817.42 Hydrologic Balance: Sediment Control

1. The waste rock disposal schedule presented in Section 15 should show the volume remaining in the pit at the end of life of facility is adequate to contain the 25 yr. - 24 hr. precipitation event.
2. Small Area Exemptions. The Division has identified several areas that need to be included in the discussion beginning on page 3-26. The discussion should include disturbed acreage, reference to map, and alternative sediment control measure(s) proposed. These areas include:
 - a. Topsoil stockpile - upper north end.
 - b. South Fork inlet area - south end of coal storage pile.
 - c. Middle Fork inlet area - west end of coal storage pile.

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- d. South Fork breakout area - this area should also be depicted on an appropriate map.

The following areas have been included in the permit narrative, but need to be depicted on an appropriate map:

- a. Railroad loadout area - 2.35 acres on north side of disturbed area.
- b. Loadout area - South of truck dump area and UDD-1.

Additionally, the terminology used to describe the areas not reporting to a sedimentation pond should be revised in the text and on applicable maps to correspond to the Division's August 30, 1989 policy. A copy of this policy is enclosed for your reference.

UMC 817.43 Hydrologic Balance: Diversions

1. Culvert designs were based on open channel flow hydraulics. The culverts should be further evaluated for inlet/outlet control conditions to determine if those conditions limit the flow capacity.
2. The culvert design for the Eccles Creek crossing at South Fork did not include the watershed labeled "Eccles drainage at So. Fork" on Plate 3.2.4-2 in the design flow calculation.

UMC 817.44 Hydrologic Balance: Stream Channel Diversions

1. The diversion at the waste rock area must be designed for a 100 yr. - 24 hr. event for final reclamation. Section 14 presents designs for a 10 yr. - 24 hr. event. These designs must be submitted.

UMC 817.46 Hydrologic Balance: Sedimentation Ponds

1. Division calculations show that the portal pond volume as presented in this section may be overestimated. At an elevation of 8579.6 feet the Division calculated a volume of approximately 375,000 cubic feet versus 412,300 presented by the applicant. Please check these values.

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2. The text beginning on page 3-18 presents sediment pond volume and discharge values that differ from those in Section 7 of Volume 5. Please present correct values throughout the permit.
3. Page 5 of 6 in Section 7 contains a mathematical error in the calculation of pipe flow capacity. Weir and orifice flow calculations are correct. Please correct the pipe flow values and revise the stage - discharge curve as appropriate.
4. The sediment pond designs presented in Volume 5 for the loadout pond demonstrate the pond capacity may be too small. Revised designs are required.
5. Section 7, pages 7 and 8 labeled "barrel flow" should be removed from the permit. These pages have been removed from the Division's permit copies.
6. The certification report dated August 25, 1989 from Keith Zobell to Lowell P. Braxton must be incorporated into the MRP. This certification addresses the requirements of UMC 817.49 (h).

RPS/djh
cc: R. Harden
BT6009/76-78