



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

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January 31, 2000

TO: Internal File.

FROM: Sharon Falvey, Senior Reclamation Specialist/Hydrologist, Project Lead. *SLF*

RE: Minewater Discharge Location Change, Lodestar Energy, Inc., Horizon Mine, ACT/007/020-AM99G-2, Carbon County, Utah.

SUMMARY:

This amendment was provided on January 13, 2000 in response to the Technical Analyses (TA) internal document completed by this writer on December 10, 1999.

TECHNICAL ANALYSIS:

HYDROLOGIC INFORMATION

Regulatory Reference: 30 CFR Sec. 773.17, 774.13, 784.14, 784.16, 784.29, 817.41, 817.42, 817.43, 817.45, 817.49, 817.56, 817.57; R645-300-140, -300-141, -300-142, -300-143, -300-144, -300-145, -300-146, -300-147, -300-147, -300-148, -301-512, -301-514, -301-521, -301-531, -301-532, -301-533, -301-536, -301-542, -301-720, -301-731, -301-732, -301-733, -301-742, -301-743, -301-750, -301-761, -301-764.

Water Quality Standards and Effluent Limitations

Analysis:

- 1) The following summarizes the proposed minewater discharge changes.
 - a) Minewater discharge is proposed to be discharged directly to the bypass culvert.
 - b) Minewater will be monitored in accordance with the existing UPDES discharge permit.

The cover letter to the existing UPDES discharge permit UTG 040019, effective July 15, 1999, indicates the Department of Environmental Quality (DEQ) accepted the use of sumps for treatment of minewater. The permit; however, does not appear to contemplate the discharge from outfall 002 directly to the bypass culvert, However pages with new information provided to the Division by Fax.

With the minewater being directly discharged to the bypass culvert. It will be difficult to determine the visual permitting requirements as the discharge will mix with Jewkes Creek water before exiting the bypass culvert. Additional monitoring requirements required by the Division included: 1) collecting quarterly monitoring data from locations upstream and downstream from the disturbed area within a reasonable time on the same day, the minewater discharge sample is obtained, and 2) monitoring for the monthly maximum discharge flow rate as well as providing in-mine water consumption estimates.

The applicant included a commitment to monitor discharge 002 on the same day during the quarterly sampling of surface water sites SS-3 and SS-5 according to the monthly UPDES discharge permit to meet the Divisions Requirement. The maximum flow for the discharge point each month required by the UPDES permit.

Information on mine consumption was provided as an estimate for full production. Information providing an estimate of use for each month during production was what was intended by the requirement to get a better idea on total minewater inflow. The monthly estimates can be incorporated during future mine plan amendment changes.

The submitted page 7-61 does not correlate with the pages 7-61 through 7- 63 in the existing plan. Page 7-61 needs to be labeled 7-62, and information in the existing plan page 7-62 needs to be incorporated. In the cover letter the applicant indicated changes submitted on 11/15/99 corrected these errors, and pagination would be corrected upon final approval.

Findings:

Information provided in the plan is adequate to meet the requirements of this section. Information providing an estimate of use for each month during production was what was intended by the requirement. The monthly estimates can be incorporated during future mine plan amendment changes.

RECOMMENDATION:

The application can be approved for clean copies and final incorporation into the approved plan. The final approval letter should be forwarded to DEQ for their information.

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cc: Bill Malencik, PFO
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