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**CASTLE  
GATE**  
COAL COMPANY

ACT/007/004  
#3815

**RECEIVED**  
SEP 15 1986

DIVISION OF  
OIL, GAS & MINING

September 11, 1986

**FILE COPY**

D. Wayne Hedberg  
Permit Supervisor  
Division of Oil, Gas & Mining  
Three Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

Dear Mr. Hedberg:

The purpose of this letter is to answer comments which were raised in your letter dated 20 July, 1986 on the Castle Gate Coal Company Surface Facilities minor modification to Permit ACT,007,004 dated 16 December, 1985.

Comment 817.43-(1)-R.P.S. The applicant must submit complete designs for the portion of the diversion D-7 in the vicinity of the proposed infiltration pond 30 days prior to construction. Designs to be based on 25 year-24 hour storm event.

Response: Castle Gate Coal Company will provide to the Division 30 days prior to construction of the infiltration pond revised plans for the construction of a ditch which will pass a 25 year/24 hour storm event.

Comment 817.43-(2)-R.P.S. The operator must utilize a 33 inch CMP for installation at location C-8. This installation must have an available headwall depth of 4.5 feet.

Response - During a field inspection of the watershed area for culvert C-8 by Mr. Rick Summers on August 19, it was noted that the ditches conveying water along the haul road were clogged and caused water to flow across the north side of the road to the south side ditch. If the north ditch is left in this condition, the watershed area for culvert C-8 would be increased. However, Castle Gate Coal Company is cleaning both the north and south ditches along the haul road. This will ensure that the run-off will flow on both sides of the haul road with no water crossing over. Opening the road

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ditches justifies the statement on page 13 section 3.3-3(1)C Culverts that the south ditch will convey flow from pond 008 which is approximately 800 feet up stream from C-8. Only an insignificant amount of runoff is assumed to fall in the ditch from a storm event as no drainage area runs into the south ditch from above C-8.

Comment 817.43-(3)-R.P.S. The proposed filter blanket for diversion D-7 must be installed prior to the placement of the riprap in the channel. If condition is excavated channel indicates a filter blanket is not required justification must be submitted.

Response: Prior to placement of riprap a filter blanket will be installed.

Comment 817.43-(4)-R.P.S. The applicant must submit revised designs for diversion D-8 that insure the stability of the channel.

Response: Ditch D-8 was designed using an assumption of ditch which would be excavated into existing cobble and revegetated in tall grasses. This assumption gives a Manning value of .04.

Comment 817.47-R.P.S. The operator must utilize a riprap size of 26 inches for the construction of energy dissipator at culvert C-7.

Response: The riprap calculations are shown on page 14 of the May 6, 1986 responses. Attached is a copy of the riprap design manual which documents this calculation.

Soils Concerns:

UMC 817.21-.25-J.S.L.

Per a phone call with Mr. James Leatherwood on 29 August 1986, one soil sample will be taken from 0-12" in depth. Specific tests in this sample will be bulk density, gradation and organic material. Page 32 Section S.3-4(3) Final Reclamation Plan of the modification request states that prior to revegetation appropriate soil tests will be made in order to apply adequate soil amendments to ensure revegetation. Page 32 Topsoil section of the minor modification states that Castle Gate will cover with topsoil those areas which the proposed land use revegetation cannot be met by adding appropriate soil amendments.

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Please respond to this letter on a priority basis. Castle Gate  
Coal Company must construct these facilities this Fall.

Sincerely,

  
Richard H. Allison, Jr., P.E.  
Project Supervisor

RHA:sk

cc: David Miller

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