



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

July 15, 2016

Karin Madsen, Resident Agent
UtahAmerican Energy, Inc.
P.O. Box 910
East Carbon, Utah 84520-0910

Subject: Drainage Revisions, UtahAmerican Energy, Inc., Horse Canyon Mine,
C/007/0013, Task ID #5208

Dear Ms. Madsen:

The Division has reviewed your application. The Division has identified deficiencies that must be addressed before final approval can be granted. The deficiencies are listed as an attachment to this letter.

The deficiencies authors are identified so that your staff can communicate directly with that individual should questions arise. The plans as submitted are denied. Please resubmit the entire application.

If you have any questions, please call me at (801) 538-5325.

Sincerely,

A handwritten signature in blue ink that reads "Daron R. Haddock". The signature is fluid and cursive.

Daron R. Haddock
Coal Program Manager

DRH/sqs
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Technical Analysis and Findings

Utah Coal Regulatory Program

PID: C0070013
TaskID: 5208
Mine Name: HORSE CANYON MINE
Title: DRAINAGE REVISIONS

Environmental Resource Information

Probable Hydrologic Consequences Determination

Deficiencies Details:

The amendment does not meet the State of Utah R645 requirements for Probable Hydrologic Consequences Determination. The following deficiency must be addressed prior to final approval:

 R645-301-728 The PHC must be updated to account for mine discharge.

adaniels

Operation Plan

Mining Operations and Facilities

Deficiencies Details:

R645-301-512.120, R645-301-532, R645-301-533.200, R645-301-542.800, R645-301-553, and R645-301-830.140: The Permittee must provide:

Additional language was added to clarify the Northern Ventilation fan facilities was included with this amendment when it was submitted in May 2016 under Task 5095 on page 11 of Chapter 5. These changes to the MRP should have remained within this current application. The permittee should re-add narrative clarifying the North Ventilation fan facilities that was presented in Task 5095 back Chapter 5, pages 11/12. The text originally said, "Ventilation fans will be located on Portal and on the Northern Breakouts. The ventilation fan will be accessed and installed from inside the mine. The need for surface access is not anticipated at this time. A concrete pad will be poured as a permanent support for the north fan. The highwall and approximately 40 feet of slope above the north breakout ledge will be chain-linked and shot-creted for stability. Prior to installing the chainlink." Chapter 5 page 64 also had clarifying text that needs to be re added under Section 553.120 stating, "During reclamation, the fans will be dismantled and either salvaged or taken underground. The chainlink bolts will be cut off 6 inches below the surface and the shot-crete and mesh will be disposed of underground. The concrete will be buried during highwall reclamation and suitable material will be placed against the portals. This material will be shaped to eliminate the highwall and to bring the slope back to the approximate original contour."

Culverts listed on page 14 of Chapter 5 should match Table 9 in Chapter 7
 DC-4 length should be verified as either 274' or 270'
 DC-8 length should be verified as either 167' or 168'

DC-12b length should be verified as either 79' or 76'
DC-12c length should be verified as either 357' or 354'
DC-14 diameter should be verified as either 24" or 18"
SP2-1 diameter should be verified as either 24" or 18"

The Permittee must provide updated reclamation bond sheets for the following boning spreadsheets, similar to those submitted under Task 5095:

Demolition total
Demolition culverts
Earthwork total
Earthwork Backfill
Earthwork support
Total sheet

cparker

Relocation or Use of Public Roads

Deficiencies Details:

R645-301-527, -534 and -552: The permittee has yet to receive approval and will send a copy of the approval to the Division upon the letter's arrival. UtahAmerican Energy recognizes that work will not commence on the roadway until the right of way has been approved.

cparker

Topsoil and Subsoil

Deficiencies Details:

Deficiency:
R645-301-232.600, In accordance with the existing plan, The Permittee must completely removal all topsoil from the remaining undisturbed land within the disturbed area boundary (i.e. the proposed truck loop location, beneath the powerline and the substation outslope, including soil mound) prior to construction of drainage ditches D8, D9 and prior to installation of culverts DC11 and DC12 a-d. Map 2-3a should show this undisturbed area with a different legend from the Undisturbed (never to be disturbed). Map 2-3a should include the proposed acreage of salvage and estimated volume of topsoil salvage from the undisturbed. The as built amounts can be provided with the Annual Report.

pburton

Hydrologic Water Quality Standards

Deficiencies Details:

The amendment does not meet the State of Utah R645 requirements for Hydrologic Water Quality Standards. The following deficiency must be addressed prior to final approval:

R645-301-751 The Permittee must include text explaining whether the UPDES permit has been revised to account for the addition of mine water discharge into Sediment Pond 1.

adaniels

Hydrologic Ponds Impoundments Banks Dams

Deficiencies Details:

The amendment does not meet the State of Utah R645 requirements for Hydrologic Ponds. The following deficiency must be addressed prior to final approval:

R645-301-742 The permittee must add a commitment, that if mine discharge exceeds 2,020 gpm (4.5 cfs), as specified on page 12 of Appendix 7-4, the design of sediment pond 1 as well culvert DC-5 and any down stream ditches or culverts, will be re-calculated.

adaniels

Reclamation Plan

Backfill and Grading General

Deficiencies Details:

R645-301-843.140: The Permittee must provide updated reclamation bond sheets for the following bonding spreadsheets, similar to those submitted under Task 5095:

- Demolition total
- Demolition culverts
- Earthwork total
- Earthwork Backfill
- Earthwork support
- Total sheet

cparker

Topsoil and Subsoil

Deficiencies Details:

R645-301-121.200, Map 2-3a is referred to in Chap 2, page 13 of the application, but it does not provide information on the source of subsoil/cover for the rock waste. This reference to map 2-3a is not accurate and should be removed.

pburton

Bonding Determination of Amount

Deficiencies Details:

R645-301-843.140: The Permittee must provide updated reclamation bond sheets for the following bonding spreadsheets, similar to those submitted under Task 5095:

- Demolition total
- Demolition culverts
- Earthwork total
- Earthwork Backfill
- Earthwork support
- Total sheet

cparker