

August 12, 2003

Gary Gray, Resident Agent  
West Ridge Resources, Inc.  
P.O. Box 1077  
Price, Utah 84501

Re: Conditional Approval of As Built Drawings, West Ridge Resources, Inc., West Ridge Mine, C/007/041-AM03B, Task ID #134, Outgoing File

Dear Mr. Gray:

The above-referenced amendment is conditionally approved upon receipt of five clean copies for incorporation. Once we receive these copies, we will send a stamped incorporated copy to you for insertion into your copy of the Mining and Reclamation Plan. A copy of our Technical Analysis is enclosed for your information.

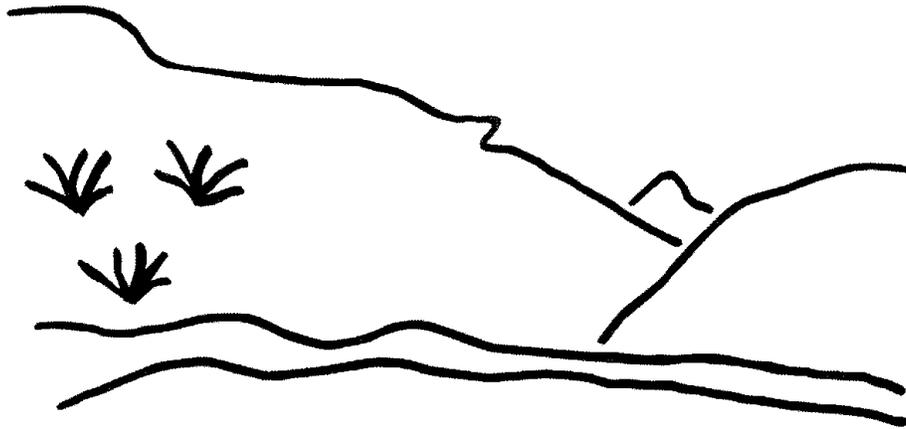
If you have any questions, please call me at (801) 538-5325 or Karl R. Houskeeper at (435) 613-5330.

Sincerely,

Daron R. Haddock  
Permit Supervisor

KRH/sd  
Enclosure  
cc: Price Field Office  
O:\007041.WR\FINAL\CONDAPP\_03B\_134.DOC

# State of Utah



## Utah Oil Gas and Mining

### Coal Regulatory Program

West Ridge Mine  
As Built Drawings  
C/007/041-03B  
Task ID #134  
Technical Analysis  
August 11, 2003



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## TECHNICAL ANALYSIS

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# TECHNICAL ANALYSIS

The Division regulates the Surface Mining Control and Reclamation Act of 1977 (SMCRA). When mines submit a Permit Application Package or an amendment to their Mining and Reclamation Plan, the Division reviews the proposal for conformance to the R645-Coal Mining Rules. This Technical Analysis is such a review. Regardless of these analyses, the permittee must comply with the minimum regulatory requirements as established by SMCRA.

Readers of this document must be aware that the regulatory requirements are included by reference. A complete and current copy of these regulations and a copy of the Technical Analysis and Findings Review Guide can be found at <http://ogm.utah.gov/coal>

This Technical Analysis (TA) is written as part of the permit review process. It documents the Findings that the Division has made to date regarding the application for a permit and is the basis for permitting decisions with regard to the application. The TA is broken down into logical section headings which comprise the necessary components of an application. Each section is analyzed and specific findings are then provided which indicate whether or not the application is in compliance with the requirements.

Often the first technical review of an application finds that the application contains some deficiencies. The deficiencies are discussed in the body of the TA and are identified by a regulatory reference which describes the minimum requirements. In this Technical Analysis we have summarized the deficiencies at the beginning of the document to aid in responding to them. Once all of the deficiencies have been adequately addressed, the TA will be considered final for the permitting action.

It may be that not every topic or regulatory requirement is discussed in this version of the TA. Generally only those sections are analyzed that pertain to a particular permitting action. TA's may have been completed previously and the revised information has not altered the original findings. Those sections that are not discussed in this document are generally considered to be in compliance.



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## INTRODUCTION

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# INTRODUCTION

On May 30, 2003, the Division received AM03B West Ridge As-Built Drawings. The application contained the following information:

Table 10	Map 2-2	Map 5-1	Map 5-6B	Map 5-10	Map 7-4
Table 11	Map 2-4	Map 5-5	Map 5-6C	Map 5-15	Map 7-4A
Table 14	Map 2-5	Map 5-6	Map 5-8	Map 7-1	
Table 15	Map 3-2	Map 5-6A	Map 5-9	Map 7-2	

Maps 5-6, 5-6A, 5-6B, 5-6C, 5-9, and 5-10 have specific reference to reclamation contours and cross-sections of the highwall. The referenced maps have ties to Division Order DO00A-7, which has not been approved. The permittee submitted a letter dated July 7, 2003, (received by the Division on August 1, 2003) requesting the removal of the referenced Maps from this amendment and re-submitting Map 5-8 with modifications.

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## INTRODUCTION

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## OPERATION PLAN

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# OPERATION PLAN

## MAPS, PLANS, AND CROSS SECTIONS OF MINING OPERATIONS

Regulatory Reference: 30 CFR Sec. 784.23; R645-301-512, -301-521, -301-542, -301-632, -301-731, -302-323.

### Analysis:

#### Affected Area Maps

Map 5-8 Undisturbed Drainage Culvert Profile – This map had only two minor modifications: 1) a note addressing the installation of the by-pass culvert was modified to indicate the culvert was installed on top of the existing channel grade and no excavation into the natural channel occurred; and 2) culverts UC-QQ and UC-PP are no longer necessary due to ASCA-Z. The current map replaces a map that was last modified in April 1999.

Map 7-1 Drainage Area - Modifications in the current drawing include an approximate 850-foot extension of the disturbed area boundary southwest, down to the Carbon County road maintenance point. The extension now includes all of ASCA-W, undisturbed drainage UA-15, and undisturbed ditch UD-15. Another modification was the disturbed area boundary did not extend as far up the drainage as originally planned. The disturbed area is approximately 200 feet downstream from the originally submitted map. The shortening eliminated the need for the following undisturbed drainage areas: UA-Ya, UA-Yb, UA-Xa, UA-Xb, UA-Xc, and UA-BB. The current map replaces a map that was last modified on April 1, 1998.

Map 7-2 Mine Site Drainage – No modifications were noted to this map, with the exception of the map is now stamped, signed, and dated by a registered professional engineer. The current map replaces a map that was last modified on March 20, 2003, that did not have the certification requirements.

## OPERATION PLAN

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### Mining Facilities ps

Map 7-4 Sediment Pond – Plan & Profile - Minor modifications were made to the ponds during construction that increased the holding capacity of the ponds. The following table illustrates the changes:

Item	Cell A Vol. change	Cell B Vol. Change	Total Pond Volume
<b>Emergency Spillway</b>	-	0.45 to 0.48	8.12 to 8.63
<b>Principal Spillway</b>	4.44 to 4.67	3.23 to 3.48	7.67 to 8.15
<b>Max. Sediment Level</b>	1.62 to 1.85	0.23 to 0.31	1.85 to 2.16
<b>60% Cleanout Level</b>	0.97 to 1.11	0.14 to 0.23	1.11 to 1.34

Note: Volumes are in acre-feet

Other modifications to the map include:

- No Drainage Retention Basin at the toe of Cell B for ASCA-Z (sized at 0.09 acre-feet)
- Ditch DD-11 no longer reports to Cell B; now reports to Cell A
- Locations of the Sediment markers changed in both Cell A and Cell B

Two notes were taken off the map: 1) indicating, “The bypass culvert will be installed on top of the existing channel grade. No excavation into the natural channel will occur during culvert installation”; and 2) “All pond embankments are to be constructed with 3:1 outslopes and 2.5:1 inslopes”. Observations made on maps 5-8, 7-4, and 7-4A indicate this was accomplished. The current map replaces a map that was last modified in February 1999.

Map 7-4A Sediment Pond Cross Sections – The only modification noted on the current map from the originally submitted map, is the As-constructed surface is wider and flatter on stations 0+00 through 3+00. This does not appear to have any adverse impact on the surrounding slopes. The current map replaces a map that was last modified in April 1999.

### Certification requirements

Maps 2-2, 2-4, 2-5, 3-2, 5-1, 5-5, 5-8, 5-15, 7-1, 7-2, 7-4, and 7-4A were reviewed and found to meet the requirements set forth in R645-301-521.

All of the maps reviewed were stamped, signed, and dated by registered Professional Engineer Dan W. Guy (Utah #154168).

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## OPERATION PLAN

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Maps 5-6, 5-6A, 5-6B, 5-6C, 5-9, and 5-10 were submitted and then withdrawn from this application. The maps were withdrawn because they are currently not approved and are being reviewed and addressed under Division Order DO00A-7.

### **Findings:**

Information provided in the proposal is adequate to meet the requirements of the Operational Plan – Maps, Plans, and Cross Sections of Mining Operations section of the regulations.



