

January 14, 1998

Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Attention: Mr. Daron R. Haddock

Jopy Daron

Re: Response to Deficiencies in Fan Portal Reclamation Plan, (Round 3), PacifiCorp, Cottonwood/Wilberg Mine, ACT/015/019-97C, Folder #3, Emery County, Utah.

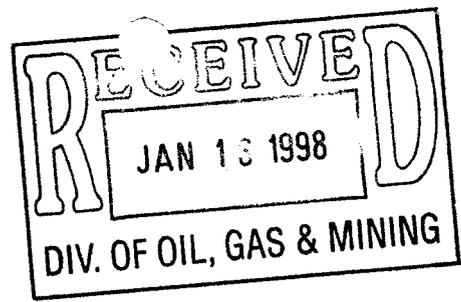
PacifiCorp, ("Energy West") has reviewed the Technical Analysis, Findings and Deficiencies as received from the Division, dated December 18, 1997. This is the response from the Energy West deficiency reply dated September 29, 1997.

"Energy West" responds to the deficiencies that remain a concern by the Division and are listed below:

Regulation Cited **Deficiency - Bold** *Response -Italic*

1. R645-301-412.200, The permittee must provide the following in accordance with the requirements of said regulation. No Comments from the land owner concerning "Energy West" intentions to reclaim the Proposed Cottonwood Fan Portal Area and the Postmining Land Use.

Response: *As discussed with the Division previously, the managing agent for Energy West Mining, "Interwest Mining" is currently involved in negotiations with the land owner, L.D.S. Church. When the company and the Church reach final agreement, this deficiency will be addressed. Energy West will provide the Division a letter of consent from the land owner at least 60 days prior to construction. Therefore, a delay in providing this information is requested. Attached is a request letter from "Interwest" to the Church for additional time extension for your review.*



2. R645-301-512, Provide a map for the final site configuration including filling of the sediment ponds.

Response: During the submittal of deficiencies dated September 29, 1997, a drawing was included that represents final reclamation contours, see drawing KS1710D, Plate 5-5. The sediment basin area contours were not included at that time, as this was considered Phase I reclamation and the ponds were to remain in place. The drawing should have been identified specifically as Phase I Reclamation instead of Final Reclamation, therefore, changes to the title block of Plate 5-5 have been revised and a new drawing will be included to reflect final reclamation contours for the entire site. The new drawing will be identified as drawing # KS1742D, Plate 5-5A. Also, a cross-section drawing, Plate 3-10, was provided in the Round II submittal that reflects final reclamation cross sections of the basin areas with earthwork quantities provided. Plate 3-10 has been revised (cross-sections and contours) based on new cross section data.

3. R645-301-742.313, The plan must include backfilling ditch DD-4, this ditch will no longer be needed to achieve the purpose for which it was authorized. Backfilling and regrading to promote overland flow will approximate AOC for the regraded portion of the site.

Response: "Energy West" reviewed the previous submittal determination concerning the DD-4 ditch. Further inspection and survey work of the site confirms our previous decision to have the ditch remain intact. With this in mind, phone contact with the Division was made and arrangements to have Reclamation Specialist of the Division conduct an onsite field evaluation, specifically the DD-4 ditch situation and the question of final reclamation.

After the field inspection was conducted, it was concluded that the ditch would remain intact. This decision was based on the following parameters.

- 1. To fill in the ditch and try to create overland sheet flow (water) could jeopardized the outslope conditions as they exist at this time. Surface flows, to a certain degree, would still follow the natural slope towards the north. Concentrated flows would create erosion rills in the same path direction as the present DD-4 ditch line.*

(long range concerns)

Division of Oil, Gas and Mining
Coal Regulatory Program
January 14, 1998
Page Three

2. The area has been proven stable and has not shown signs of deterioration over the past several years.

3. Established vegetation has provided a means of minimizing erosion. To fill in the ditch would cause severe damage to that vegetation growth, during construction efforts.

4. The terrace area that contains the DD-4 ditch is a natural buffer zone for rock falls and could prevent rocks from reaching the County road at the base of the CCFP site.

5. Backfilling the DD-4 ditch would not change the AOC significantly.

Therefore the text found on page 25, Sec. 761-General Comments and 762.100 will remain as submitted in Round II.

DD-4 Ditch Design and surface flow parameters are provided in the original submittal, volume 11, under the Hydrology section, appendix XIII. The ditch as shown on plate 3-10 x-section drawing, and drawing KS1742D, plate 5-5A depict a gradient flow of -3.2% through the pond reclamation area and into the existing County road bar ditch. The original ditch hydraulic designs are reflected on Map 3, (HA&L) and within the text of appendix XIII of volume 11. As defined in the regulations final reclamation structures, in this case a permanent diversion, require parameters to comply with a 100 year/ 6 hour storm event. This storm event will result in 2.2 inches of rainfall according to the NOAA Atlas 2, Precipitation-Frequency charts. Ditch DD-4 was designed utilizing the 10 year/ 24 hour storm event of 2.4 inches which results in peak flow in excess of the 100 year/ 6 hour storm event. Calculations to verify the original designs are located in Energy West's original volume 11, appendix XIII, pages 1 through 8.

The HA&L design for Ditch DD-4 channel indicates water velocities will be 3.09 fps to 3.92 fps for slopes of 6% and 12% respectively. These flows are below the 5 fps non-erodible permissible velocity for a ditch with these characteristics. Final reclamation of the Ditch DD-4 in the sediment basin area will have a slope of 3.2% utilizing the same design criteria as the original ditch design. The design flow of 0.7 cfs will result in a velocity of 2.03 fps and depth of 0.23 feet. As a result of the design criteria rip-rap will not be necessary, however, riprap will be installed at the confluence with County Road bar ditch. Using the SCS riprap design method a D_{50} of less than 1" was estimated. The riprap transition will be constructed with a D_{50} of 0.5 feet (refer to Drawing KS1742D, Plate 5-5A0.

4. R645-301-742.200, Provide a sediment control plan for controlling sediment following sediment pond removal.

Response: Refer to plan submitted in last response dated September 29, 1997, pages 25 and 26 which do in fact indicate "Energy West's" intentions to provide sediment control. Drawing # KS1742D, plate 5-5A will reflect silt fence locations. Page 26 of the previously submitted deficiencies will be revised, and reflect additional information concerning subsoil and topsoil pile sediment control. Attached for your review. The silt fence will be removed when vegetation has been established, with consent and approval by the Division.

5. R645-301-542.800, R645-301-820.100, After the details of the reclamation plan have been worked out and the entire plan is acceptable to the Division, the permittee will submit a overall reclamation cost estimate and, if necessary, revise the reclamation bond in accordance with that estimate.

Response: "Energy West" does commit to follow through with the above stated regulation requirements. When the remaining deficiencies have been resolved and accepted by the Division, a complete amendment to the plan will be provided (seven copies) which will include the latest reclamation cost estimates.

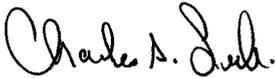
Please review the revisions to drawing KS1715D, Plate 5-4, of Volume 11 which have been made to reflect those contour and x-sections changes required for the pond areas, attached for your review.

Division of Oil, Gas and Mining
Coal Regulatory Program
January 14, 1998
Page Five

When the last of the items have been accepted a time extension of sixty days is requested to allow time to compile the additional copies of the permit amendment, Volume 11.

Thank you for your help and expertise in resolving these issues, if there are any further questions or concerns please call Charles Semborski at 687-4720 or Richard Northrup at 687-4822.

Sincerely,



Charles Semborski
Environmental and Geology Supervisor

cc: Blake Webster
Carl Pollastro
Susan Tuttle (File)
Chuck Semborski