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Technical Analysis and Findings
Utah Coal Regulatory Program

PID: C0070019
TaskID: 4503
Mine Name: CENTENNIAL MINE
Title: LEASE RELINQUISHMENTS

Summary

Approval of Task ID # 4503 is recommended.

phess

General Contents

Maps and Plans

Analysis:

The information on plate 34 depicts the new coal lease boundary but does not show where the new lease boundaries are located. The information is merely a drawing plotted against a plain white background. Plate 34 needs to be revised to include the information that are set forth on U. S Geological Survey of the 1:24,000 scale series.

Deficiencies Details:

The information is not adequate to meet the requirements of this section of the regulations. Prior to approval the following information must be provided in accordance with R645-301-140; Plate 34 needs to be revised to include the information that are set forth on U. S Geological Survey of the 1:24,000 scale series.

jhelfric

Environmental Resource Information

Permit Area

Analysis:

The Permittee submitted a new Appendix AA, which is to be added to the MRP to reflect the reductions in the Federal leases previously approved for coal recovery by the U.S. Department of the Interior, Bureau of Land Management, Utah State Office. Appendix AA lists the acreages which remain (Table 1-1, pages 1-2 and 1-3) in each of the Federal leases still associated (894.55 acres) with the Centennial Project. These are as follows

- 1) Federal lease UTU-66060.....161.41 acres remaining;
- 2) " " UTU-69600.....497.18 acres remaining;
- 3) " " UTU-010581.....40.00 acres remaining;
- 4) " " UTSL-27304.....155.96 acres remaining;
- 5) " " SL-63058.....40.00 acres remaining.

Total of Federal Lease acreage (minerals) remaining.....894.55 Acres

The Centennial Project permit area also includes 533.21 acres of surface estate, all of which are comprised of Federal lease acreages. They are listed as follows;

- 1) Federal Lease UTU-66060.....285.68 acres;
- 2) " " UTU-79975.....167.53 acres;
- 3) " " UTU-010581.....40.00 acres;
- 4) " " UTSL-27304.....40.00 acres.

Total Acreage of Surface Only within the Centennial Project Permit Area is

Total.....533.21 Acres

The total acres of the Centennial Project is evaluated on Page 1-6 under PERMIT AREA TABULATION;

- 1) Federal Coal Leases.....894.55 Acres;
 - 2) Fee Coal Leases.....845.98 Acres;
 - 3) B.L.M. Surface R.O.W.'s.....11.45 Acres;
 - 4) Private Easements.....1.50 Acres;
 - 5) Surface Only Federal Leases.....533.21 Acres.
- PERMIT AREA SUBTOTAL.....2,286.69 Acres
 Less OSO Gas Well Area.....-11.92 Acres

TOTAL PERMIT AREA.....2,274.77 ACRES

phess

Maps Coal Reasource and Geologic Information

Analysis:

The submittal dated January 21, 2014, contains several maps which were revised primarily to show a smaller permit boundary that reflects the relinquishment of several federal leases. Plate 21, which is the Surface Geology map and Plate 22, which is the Geologic Cross Section and Drill Hole Reference are maps that were contained in the original application. No changes were made to the plates other than they were both changed to show the smaller permit boundary. This really has no effect to the geologic significance of these maps. These maps as part of the lease relinquishment amendment should be approved.

dhaddock

Operation Plan

Hydrologic Ground Water Monitoring

Analysis:

A new Figure 7-1 was submitted as part of the amendment. The figure only changes the permit boundary and makes no changes to the groundwater monitoring plan.

khoffman

Hydro Surface Water Monitoring

Analysis:

A new Figure 7-1 was submitted as part of the amendment. The figure only changes the permit boundary and makes no changes to the surface water monitoring plan.

khoffman

Maps Affected Area

Analysis:

Analysis:
Affected Area Maps
Mine Workings Maps

Plate 6, As-Constructed Surface Facilities, Plate 8, Support Facilities / Surface Drainage Area, Plate 25, Subsidence Monitoring and Figure 1-2 Centennial Leases / Permit Area address the areas affected by coal mining activities at the Centennial Project.

Mine workings are shown on Plate 29, Aberdeen Mine – Isopachs / Current Mining, Plate 28 – Isopachs – Current Mining Pinnacle Mine, and Plate 27, Pinnacle Mine – Centennial Seam Isopachs. Figure 1-1, GVH Locations was re-submitted on 2 / 10 / 2014. GVH-5 is shown within the proposed permit area revision. GVH-1 (fully reclaimed) is shown as a circle of disturbance encompassing 1.13 acres.

The submitted Plate and Figures are all P.E. certified and all but Figure 1-1 meet all requirements of the R645 Coal Mining Rules.

phess

Maps Mine Workings

Analysis:

The lease relinquishment amendment included revised plates 26, 27, 28, and 29. These plates showed the area of production for each of the four seams that were mined. Plate 26 is the Lower Sunnyside Seam. Plate 27 is the Centennial Seam. Plate 28 is the Gilson Seam and Plate 29 is the Aberdeen Seam. These maps were revised to show the change in permit area as a result of the lease relinquishment. No change in the production area was made as a result of this amendment. It is recommended that these plates be approved.

dhaddock

Maps Monitoring and Sampling Locations

Analysis:

A new Figure 7-1 was submitted as part of the amendment. The figure only changes the permit boundary and makes no changes to the surface water or groundwater monitoring plans.

khoffman

Reclamation Plan

Maps Reclamation BackFilling and Grading

Analysis:

APPROXIMATE ORIGINAL CONTOUR RESTORATION

Analysis:

Plate 14, Cross Section Reference, Cut and Fill, Deadman Canyon provides the proposed description of the Mine's main surface facilities area at the time of the completion of the grading activities. The Plate is P.E. certified by Mr. Jay Marshall, Utah Registered Professional Engineer.

As the Centennial Project has yet to be reclaimed, Plate 14 is not an "As-Built" drawing.

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Maps Reclamation Treatments

Analysis:

New Plates 16 and 17 were submitted as part of the amendment. The plates do not change anything besides the displaying the new permit boundary. Plate still display the 1990's Dan Guy's engineering stamp so changes would not have been allowed without a new stamp.

khoffman