GARY R. HERBERT
Governor
GREG BELL
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES
MICHAEL R. STYLER
Executive Director
Division of Oil, Gas and Mining
JOHN R. BAZA
Division Director

Technical Analysis and Findings

Utah Coal Regulatory Program

November 4, 2015

PID: **C0150009**
TaskID: **5021**
Mine Name: **FOSSIL ROCK MINE**
Title: **REMINING WASTE ROCK FACILITY**

Operation Plan

Mining Operations and Facilities

Analysis:

The application meets the minimum requirements of R645-301-523, -526, and 528 by addressing
by including a description of the mining operation, method of coal mining, engineering techniques, anticipated annual and total production of coal by tonnage, and major equipment to be used for all aspects of those operations proposed to be conducted during the life.

cparker

Topsoil and Subsoil

Analysis:

Analysis:
The plan meets the requirements of R645-301-230 Operation Plan.

The plan to remine the existing waste at the Cottonwood Waste rock site will require removal of soils from the reclaimed outstlope. Approximately 0.5 acres of reclaimed refuse outslope will have topsoil and subsoil removed. The soil will be removed in increments, one ten foot high tier at a time.

Section 242 and Section 541 (p. 17, 18 & 20) described the placement of 24 inches of subsoil and 12 inches of topsoil during contemporaneous reclamation of the waste, and the plan indicates a similar recovery of soils. Section R645-301-231.100 explains that during remining, the expectation is for 673 CY of topsoil to be salvaged and placed on the west end of topsoil stockpile #2. About 1,347 CY of subsoil will be removed and placed on the north end of the existing subsoil stockpile.

Section 234 describes using straw bales, silt fences and interim vegetation to protect the salvaged soil. These practices will be followed.

Section R645-301-231.100 states that an as-built drawing will be provided within six months of completion of the mining. The as-built will show as built soil salvage quantities.

pburton

Road Systems Classification

Analysis:

The application meets the minimum requirements of R645-301-527.100 by classify each road as primary or ancillary. The application did not contemplate any changes to the roads within the permit area.

cparker

Spoil Waste Coal Mine Waste

Analysis:

The application meets the minimum standards or R645-301-528.320 due to updates in the MRP text that detail where waste will be mined. The updated numbers of coal removed from the site will be captured in quarterly inspection reports and annual updates to the facilities map 4-5.

cparker

Spoil Waste Refuse Piles

Analysis:

The application meets the minimum standards or R645-301-528.322 due to updates in the MRP text that detail where waste will be mined. The updated numbers of coal removed from the site will be captured in quarterly inspection reports and annual updates to the facilities map 4-5.

cparker

Spoil Waste Impounding Structures

Analysis:

The application meets the minimum standards or R645-301-533 due to not changes in the MRP text. The site will be mined east to west, following existing drainage flow to report to the existing sediment pond for treatment prior to leaving the permitted site.

cparker

Hydrologic Diversion General

Analysis:

The amendment meets the State of Utah R645 hydrology requirements of protecting the hydrologic balance. Surface runoff at the waste rock site will be collected and diverted within ditches to the sediment pond prior to being discharged offsite. The Permittee adequately outlines this procedure in Volume 4 R645-301-731.100 of the MRP.

kstorrar

Signs and Markers

Analysis:

The application meets the minimum requirements of R645-301-521.200 by the general discussion of signs. No changes were made to the permit in regards to sign placement.

cparker

Maps Affected Area

Analysis:

The application meets the minimum requirements of R645-301-521.100 through-521.130 by supplying an updated plate 4-5 and committing to said figure on an annual basis to demonstrate annually affect areas.

cparker

Reclamation Plan

General Requirements

Analysis:

The minimum requirements of R645-301-540 are met within the application as there is application included changes to the existing MRP reclamation that detail an annual commitment to update relevant figures that demonstrate where remining actives have been accomplished as well as demonstrate volumes of coal removed from the site in quarter inspection reports.

cparker

Approximate Original Contour Restoration

Analysis:

The application meets the minimum R645-301-512.200 and -553.110 as there is no change in the MRP and all grading will be place back to approximate original contours.

cparker

Backfill and Grading General

Analysis:

The minimum requirements of R645-301-553 are met within the application as there is no change to the existing MRP grading reclamation details.

cparker

Topsoil and Subsoil

Analysis:

Analysis:
There is no change to the reclamation plan with this amendment.

pburton

Road System Reclamation

Analysis:

The minimum requirements of R645-301-534 are met within the application as there is no change to the existing MRP reclamation of roads throughout the permitted area.

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Road System Retention

Analysis:

The minimum requirements of R645-301-534 and -552 are met within the application as there is no change to the existing MRP reclamation of roads that will be retailed at the end of mining that exist throughout the permitted area.

cparker

Contemporaneous Reclamation General

Analysis:

The minimum requirements of R645-301-553 of backfill and grading are met within the application as there is no change to the existing MRP grading reclamation details. Waste that has been sorted and will remain at the site will be reclaimed in two foot lifts as described within the mrp.

cparker

Cessation of Operations

Analysis:

The minimum requirements of R645-301-515 and -541 are met within the application as there is no change to the existing MRP plan of communication with the appropriate parties in the event of the cessation of operations and final reclamation.

cparker

Maps Affected Area Boundary

Analysis:

The minimum requirements of R645-301-542 are met within the application as text was updated within Chapter 5 to detail quarterly reports of volumes of coal removed from the site as well as an annual commitment to update figure 4-5 to reflect the current site topography on an annual basis.

cparker

Maps Bonded Area

Analysis:

The minimum requirements of R645-301-800are meet within the application as the bonded area map was updated. The site will remain a total 15.82 acres of disturbance.

cparker

Maps Reclamation Final Surface Configuration

Analysis:

The minimum requirements of R645-301-542 are met within the application as text within Chapter 2 details that updated figures will be provided to the Division six months after final topography is achieved.

cparker

Bonding and Insurance General

Analysis:

The application meets the minimum requirements of R645-301-800 as the applicant is current on the bond and insurance standings.

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Bonding Form of Bond

Analysis:

The application meets the minimum requirements of R645-301-860.100 as the applicant currently maintains a surety bond amount of $1,154,000 which is held by Lexon Insurance Co with a rider held by Ironshore Indemnity Inc.

cparker

Bonding Determination of Amount

Analysis:

The application meets the minimum requirements of R645-301-830.140 as the Permittee has not made any changes to the MRP that would require an updated bond amount.

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Bonding Terms and Conditions Liability Insurance

Analysis:

The application meets the minimum requirements of R645-301-850 as the applicant currently holds liability insurance through National Union Fire Ins Co, effective until 2/1/16. The insurance includes the required Marsh from, explosives and claims made per occurrence.

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