Task: 5094

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

November 19, 2012

John Wilson
Progressive Contracting, Inc.
P. O. Box 1930
230 East Tabernacle
St. George, Utah 84770

Subject: First Full Review of Notice of Intention to Commence Large Mining Operations, Progressive Contracting, Inc., PCI Fort Pierce Mine, M/053/0081, Washington County, Utah.

Dear Mr. Wilson:

The Division has completed a review of the referenced Notice of Intention to Commence Large Mining Operations (Notice) which was received May 24, 2012. The attached comments will need to be addressed before tentative approval may be granted.

The comments are listed under the applicable Minerals Rule heading; please format your response in a similar fashion. Please address only those items requested in the attached technical review by sending replacement pages for the original mining notice using **redline and strikeout** text. When the Notice is determined technically complete and the Division is prepared to issue final approval, you will be asked to submit two clean copies of the complete and corrected plan. Upon final approval, the Division will return one copy stamped "approved" for your records.

Please submit your response to this review by January 4, 2013.

The Division will suspend further review until your response to this letter is received. Please contact me at 801-538-5261 or Lynn Kunzler at 801-538-5310 if you have questions about the review or if you would like to schedule a meeting to discuss the items listed. Thank you for your cooperation in completing this permitting action.

Sincerely,

Paul B. Baker
Minerals Program Manager

PBB: lk: eb
Attachment: Review
P:\GROUPS\MINERALS\WP\M053-Washington\M0530081-PCI-FTPierce\final\REV1-4818-06062012.doc

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114 -5801
telephone (801) 538-5340 • facsimile (801) 359-3940 • TTY (801) 538-7458 • *www.ogm.utah.gov*

UTAH DNR OIL, GAS & MINING

1st REVIEW OF NOTICEOF INTENTION
TO COMMENCE LARGE MINING OPERATIONS

Progressive Contracting, Inc
PCI Fort Pierce Mine

M/053/0081
November 19, 2012

R647-4-105 - Maps, Drawings & Photographs

General Map Comments

Comment #	Sheet/Page/ Map/Table #	Comments	Initials	Review Action
1		Section 105.4 references Figures 6a, 7, and 7a that are not included in the plan. These are hydrology figures. Please include them in the plan. One of the figures needs to show retention ponds.	tm	

R647-4-109 - Impact Assessment

109.1 - Impacts to surface & groundwater systems

Comment #	Sheet/Page/ Map/Table #	Comments	Initials	Review Action
2		The SWPPP discusses using berms during each phase of operation to control sediment. The project is directly adjacent to established businesses and other buildings. Please describe what sort of buffer will be used and how the outslopes of the berms will be treated to prevent sediment from impacting adjacent landowners. Will there be a buffer between the disturbance and the adjacent landowners? Retention ponds are mentioned in the text but are not shown on the figures (see comment 1).	tm	

R647-4-110 - Reclamation Plan

110.1 - Current & post mining land use

Comment #	Sheet/Page/ Map/Table #	Comments	Initials	Review Action
3		The NOI indicates 20 to 30 percent of the 40 acres of disturbance is currently being used for industrial operations. Areas not being used for mining, and which will not be used for mining, should not be included in the permitted and bonded area.	whw	

110.3 - Description of facilities to be left (post mining use)

Comment #	Sheet/Page/ Map/Table #	Comments	Initials	Review Action

Comment #	Sheet/Page/ Map/Table #	Comments	Initials	Review Action
4		This section requires specific identification of facilities to be left along with a description of the facility. Current practice requires that plans be submitted for reclaiming all facilities, and that appropriate amount of surety for removing all structures be provided. Once mining has been completed and the area is ready to be reclaimed, the Division will, on a case by case basis, inspect and approve various facilities that have utility for the post mining land use to remain.	lk	

110.4 - Description or treatment/disposition of deleterious or acid forming material

Comment #	Sheet/Page/ Map/Table #	Comments	Initials	Review Action
5		Please provide a description, including potential volumes, of materials that could be considered deleterious or acid forming, including fuels, oils, grease and other lubricants, etc. Describe how these materials are stored and how they will be disposed of, and also show how spills will be mitigated.	lk	

110.5 - Revegetation planting program

Comment #	Sheet/Page/ Map/Table #	Comments	Initials	Review Action
6		Please include plans for revegetating the entire disturbed area. If the proposed industrial uses are still viable at the time mining is complete, then revegetation of those areas will not be required.	lk	
7		Hydroseeding has drawbacks that need special attention during applications. First, the seed **must** be applied prior to the mulch (a two-step process). Otherwise the area will require irrigation on a frequent basis until the plants are established. Secondly, fertilizer **cannot** be mixed with the seed. (Exposure to the fertilizer solution can cause seed mortality of as much as 50 percent in just 30 minutes.). Drill seeding or broadcast seeding is preferred over hydroseeding.	lk	
8		Unless soil analysis at the time of reclamation indicate a significant fertilizer deficiency, it is recommended that fertilizer not be used. It tends to favor weed establishment over the success of desirable species.	lk	
9		It is unlikely the proposed seed mixes would establish a permanent, diverse vegetation cover capable of meeting the post mining land use. Please consider the attached seed mix for all revegetation needs.	lk	

R647-4-113 – Surety

Comment #	Sheet/Page/ Map/Table #	Comments	Initials	Review Action
10		Please use the Division's bonding spreadsheet to complete the bond calculations. There are forms for productivity calculations as well as costs.	whw	
11		Please use either Blue Book or R.S. Means for equipment costs. The Division will supply the cost information upon request.	whw	
12		Please use the Division's forms to calculate productivity rates. The Division usually uses Caterpillar equipment because of the availability of the Cat Handbook.	whw	
13		Please identify the equipment by make and model so that the Division can verify productivity calculations and costs. For example, the Division cannot assign a cost of a loader or know the productivity rates without knowing the model of loader to be used.	whw	
14		For soil amendments please list the cost if the material were to be purchased from a third party.	whw	

Comment #	Sheet/Page/ Map/Table #	Comments	Initials	Review Action
15		Please use R.S. Means for unit costs for items used in erosion and sediment control associated with the SWPPP.	whw	
16		Mobilization. The Division uses a standard mobilization cost as part of the indirect costs on the standard forms. The Division must assume that the work will be done by a third party that must transport equipment to and from the site.	whw	
17		Supervision is also included in the indirect costs in the forms used by the Division.	whw	
18		Please include the cost to reclaim all of the 40 acres to an approved post mining land use, such as wildlife habitat.	whw	

Recommended Revegetation Species List
for
Progressive Contracting, Inc
PCI-Ft. Pierce Mine
M/053/0081

For final reclamation

Common Name	Species Name	*Rate lbs/ac (PLS)
'Hycrest' crested wheatgrass	*Agropyron cristatum 'Hycrest'*	0.5
Intermediate wheatgrass	*Agropyron intermedium*	1.5
Basin Wildrye	*Elymus cinereus*	1.5
Indian ricegrass	*Oryzopsis hymenoides*	2.0
Palmer penstemon	*Penstemon palmeri*	0.5
Desert Marigold	*Baileya multiradiata*	0.25
Wyoming big sagebrush	*Artemisia tridentata wyomingensis*	0.1
4-Wing Saltbush	*Atriplex canescens*	1.0
Shadscale	*Atriplex confertifolia*	1.0
Rubber rabbitbrush	*Chrysothamnus nauseosus*	0.25
Forage kochia	*Kochia prostrata*	0.5
	Total	9.1 lbs/ac