

Applicant: <u>Oak Grove Resources, LLC</u>
Mine Name: <u>Oak Grove Mine</u>
Permit Number: P- <u>3232, Revision R-44</u>

Part III - Operation Plan

A. General Operation Information

1. Describe the type and method of coal mining procedures and major equipment to be used. (780.11)

See the response in the original permit and subsequent revision applications.

2. Describe the sequence and timing of increments to be mined (as shown on permit map) over the total life of the permit. (780.11)

The timing increments are as follows:

<u>INCREMENT NO.</u>	<u>ACRES</u>	<u>DATES</u>	
		<u>FROM</u>	<u>TO</u>
1	806	Issuance of R-44	Life of permit
2	8	Issuance of R-44	Life of permit
3	2	Issuance of R-44	Life of permit
4	5	Issuance of R-44	Life of permit

*Month depends on date revision is issued.

The sequence of mining operations will be generally as follows:

- 1) Construction of Sediment Control Structures
- 2) Site Preparation
- 3) Construction
- 4) Site Reclamation
- 5) Revegetation

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SUPPLEMENTAL PERMIT APPLICATION INFORMATION FOR UNDERGROUND MINES

OPERATION PLAN AND RECLAMATION PLAN:

PART III-H

A. Subsidence Control Plan (880-X-8I-.10)

1. Include a survey which shows what structures or renewable resource lands exist within the proposed permit and adjacent area and whether subsidence, if it occurred, could cause material damage or diminution of reasonably foreseeable use of such structures or renewable resource lands. If it is determined that no material damage will occur to surface structures or renewable resource lands from subsidence, the application shall include supporting evidence of such a finding.
2. If the study shows that structures or renewable resource lands could be adversely effected by subsidence, the applicant shall address the following:

Within the survey area, does the applicant intend to implement planned subsidence? (X) Yes () No

If yes, provide information requested under "Planned Subsidence", Subsection (a).

If no, provide information requested under "Unplanned Subsidence", Subsection (b).

(a) Planned Subsidence.

- (1) Using Maps, plans, or cross-sections, as needed, locate the area(s) where planned subsidence is occurring or is intended to occur. Clearly show on a map and correlate the information and the relationship to critical surface Features, renewable resources lands and structures called for in Parts (i-v) below:
 - (i) Provide a detailed mine plan map. Describe the method of mining used to implement planned subsidence, such as longwall, room and pillar - high extraction (pillar removal), or other methods.

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- (ii) Locate extraction panels, give geometric sizes, dimensions and orientation, and include details of length, width and height of panels. Give percent of coal left as support in ratio to percent of coal removed within the extraction panel. Include similar information concerning any secondary recovery that is planned.
 - (iii) Provide details locating all permanent coal block and barrier pillars outside the actual extraction panels. Give geometric shapes, dimensions and orientation of these blocks and barrier pillars.
 - (iv) Give anticipated date (month/year) in which mining, will be conducted in each area and/or panel within the planned subsidence area(s).
 - (v) Show areas that will be affected by subsidence. Provide details on the horizontal extent and vertical drop of the surface as it relates to the effectiveness of the proposed Subsidence Control Plan. Supply information detailing expected subsidence profiles.
- (2) Provide a detailed description of measures to be taken to prevent planned subsidence from causing material damage or lessening the value or reasonable foreseeable use of the surface. Locate and describe in detail how, when, and where measures, if any, are to be applied. Include the following information:
- (i) Locate areas in which coal removal is not planned, including its relationship to overlying area(s) to be protected by leaving coal in place.
 - (ii) Describe measures to be taken on the surface to prevent material damage or diminution of the value or reasonable foreseeable use of the surface, including, but not limited to:
 - (A) Reinforcement of sensitive structures or features.
 - (B) Installation of footers or other techniques designed to reduce damage caused by movement.
 - (C) Change of location of pipelines, utility lines or other features.

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(D) Relocation of moveable improvements to sites outside the angle of draw.

(E) Monitoring, to determine the commencement and degree of subsidence so that appropriate measures can be taken to prevent or reduce damage.

(F) Describe any other prevention measures taken.

- (3) Provide a detailed description of measures that are to be taken to mitigate the effects of any material damage or diminution of value or reasonable foreseeable use of lands which may be caused by planned subsidence. Describe how these measures are to be promptly applied in accordance with 880-X-10D-.58. measures include, but are not limited to, one or more of the following:

See Attachment III-H-A(3)

(i) Restoration or rehabilitation of damaged structures including surface and underground agricultural drainage systems, features and lands after subsidence to a condition capable of supporting and suitable for foreseeable use, including restoration of approximate land surface contours to pre-mining conditions in order to assure proper surface drainage.

(ii) Replacement of structures, including surface and underground.