



SURFACE MINING NEAR UNDERGROUND MINES - MSHA COORDINATION

INSTRUCTIONS

Any surface coal mining activities within 500 feet of an active underground mine must be jointly approved by the Department and the Mine Safety and Health Administration (MSHA).

In order to obtain MSHA approval, submit 4 copies of the following information along with your permit application to the Department. The Department will forward the information to MSHA.

All applicants will be required to comply with MSHA's rules and regulations during mining activities on this permit.

SECTION A. APPLICANT INFORMATION

Applicant Name: Rosebud Mining Company

Mine Name: Mine 78 Surface No. 3 Mine

MSHA Pit No: Pit 74 **MSHA I.D. No.:** 36-02773

Mailing Address: 301 Market Street
(Street # and Name or P.O. Box)

Kittanning City PA State 16201 Zip Code + Four

<u>(724) 545-6222</u> Telephone #	<u>(724) 543-6375</u> Fax #	- VOLUNTARY - Social Security Number if Individual	<u>25-1359034</u> Federal Tax ID # <u>1664</u> Mining Operators License #
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Application Contact:

St. Clair Last Name John First Name J. MI State Social Security # Voluntary

Manager of Permitting Title

Mailing Address:

301 Market Street
Street # and Name or P.O. Box

Kittanning City PA State 16201 Zip Code + Four

SECTION B. LOCATION OF UNDERGROUND MINE(S)

Underground mine(s) affected Rosebud Mining Company MSHA I.D. No. 36-09371
Mine 78 (UK Coal Seam)

Horizontal distance (feet) to the active workings of the underground mine. 250' +/-

Vertical distance (feet) to the active workings of the underground mine. 128' +/-

Horizontal distance (feet) to any abandoned areas of the active underground mine. 0'

Vertical distance (feet) to any abandoned areas of the active underground mine. 128' +/-

Is the mine flooded? Yes No Uncertain

SECTION C. SITE INFORMATION

1. Are there any existing or planned impoundments on this surface mine property that are or will be subject to MSHA regulation?
 Yes No
 Impoundment I.D. No. _____

2. Will blasting be conducted over or adjacent to an active or abandoned portion of an active underground mine?
 Yes No
 If yes, please complete Section D.

3. Describe the mining operations that could affect the safety of the surface and/or underground miners.

4. Attach a map and overlay of the permit area and the affected underground mine.
See the attached Operations Map.

5. Attach a geologic section of the strata to be affected (i.e., a description of the rock strata between the surface mining and underground mining operations).

6. List the coal seam(s) that will be mined.
Middle Kittanning, Upper Kittanning, Lower Freeport, Upper Freeport

SECTION D. BLASTING INFORMATION

1. Type of material to be blasted: **Cast Booster, ANFO, Iremex, Repump 8/20, Electric and Non-Electric**

2. Maximum number of holes to be blasted: **200 or as plan dictates** _____

3. Hole diameter (inches): Minimum 5 1/2" Maximum 7 7/8"

4. Hole depth (feet): Minimum 4' Maximum 65'

5. Hole spacing (feet): Minimum 6' Maximum 30'

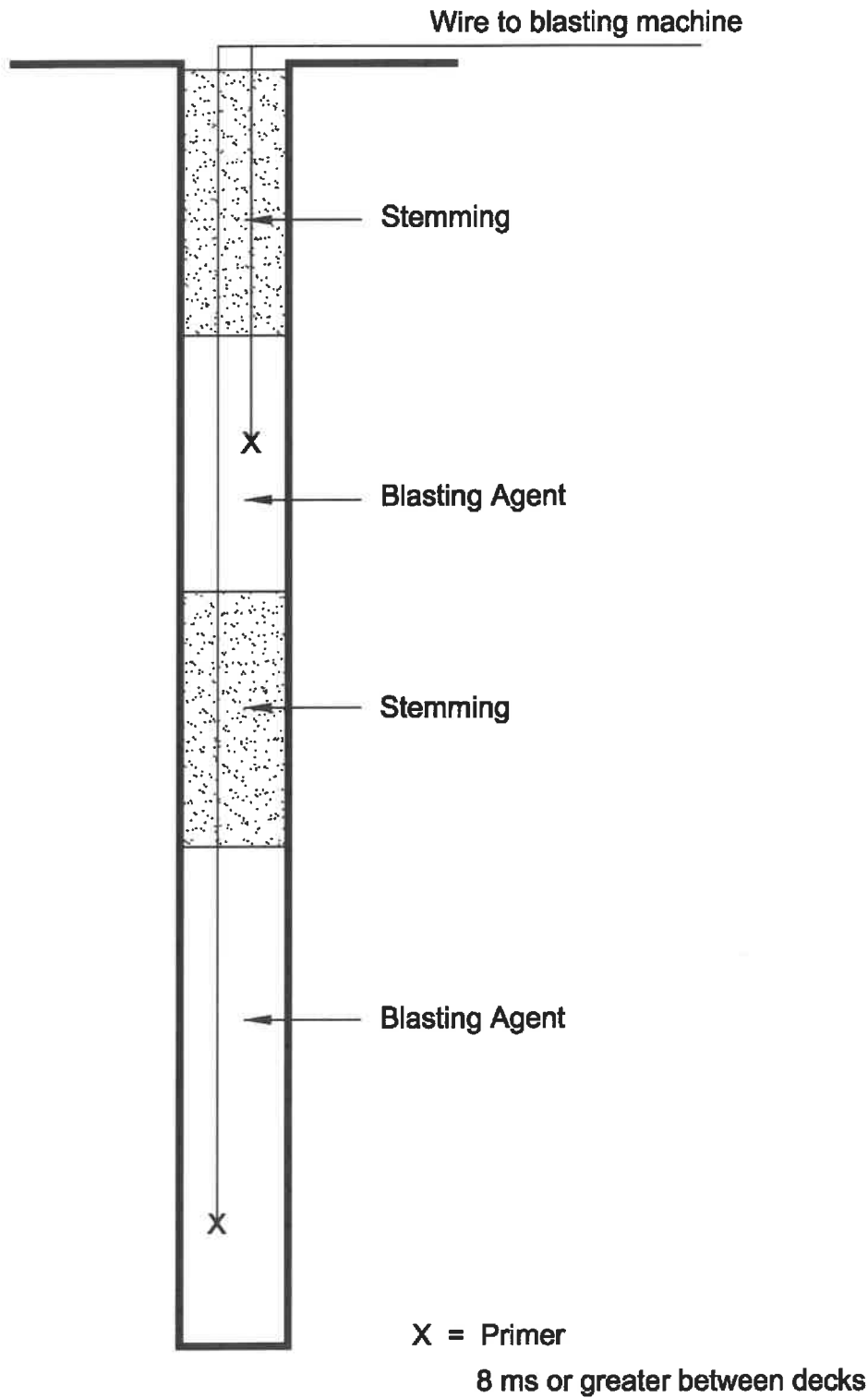
6. Over burden depth (feet): Minimum 0' Maximum 65'

7. Maximum lbs./delay period: 1200

8. Stemming amount: Minimum 3.5' Maximum 10'

SECTION D. BLASTING INFORMATION Cont.

9. Illustrate the typical arrangement of the explosives within the borehole.



SECTION D. BLASTING INFORMATION Cont.

10. Typical delay sequence (include an example of firing time of deck charges and/or holes).

See Attached Page

11. Planned scaled distance for blast:

$$SD = \frac{MD}{W^{1/2}} = \underline{90}$$

SD = Scaled Distance

MD = Measured distance

W = Maximum Weight of Explosives per Delay Period

12. Will surface mine blasting be correlated with underground mine activity? Yes No

13. How will this be accomplished?

The superintendent of the Mine 78 deep mine will be given advance notice (at least 24 hours) prior to blasting operations at the Mine 78 Surface No. 3 Mine.

14. Have there been complaints from underground miners regarding surface blasting?

Yes No

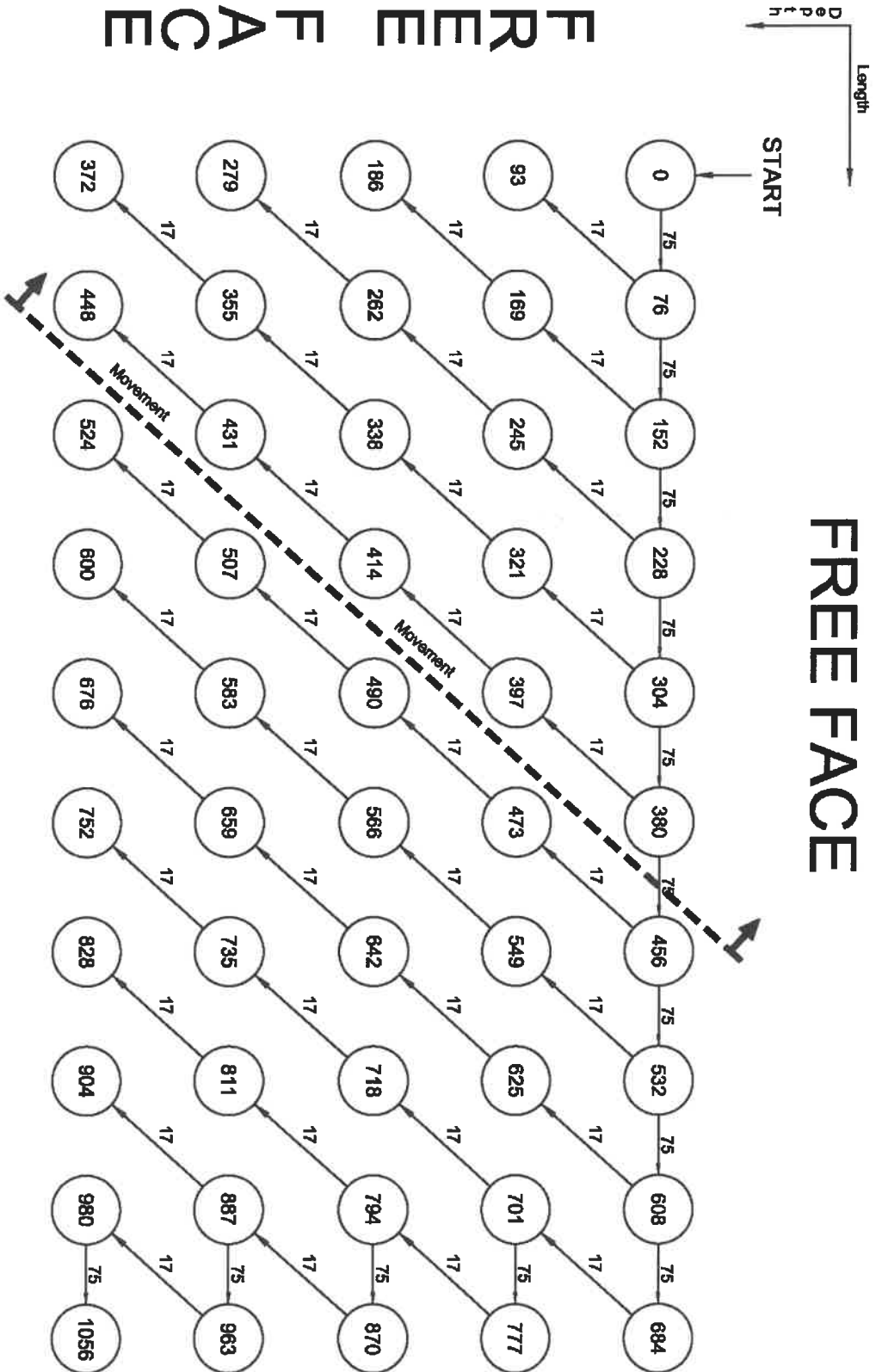
If Yes, please explain. **No blasting has been conducted at this time.**

15. If requested by MSHA, will the seismic effects of the surface blasting be monitored in the underground mine and will records analyses of that monitoring be made available?

Yes No

Typical Delay Sequence

FREE FACE



APPLICATIONS
 Quarry, coal or open pit shooting

SURFACE DELAYS
 17 & 76ms

NOTES
 76ms surface delay created by
 marrying 42ms + 17ms + 17ms
 = 76ms

SECTION E. AFFIDAVIT



Signature of Applicant or Responsible Official

24th Day of August 2021
(month) (year)

John St. Clair
Name (Typed)

301 Market Street
Address

Kittanning, PA 16201
Address