

Bower Brothers Construction
“Hertzog Pit”

Exhibit “D”
Mining Plan

- A) Mining operations will consist of 6” – 12” of topsoil to be removed and stockpiled
2’ – 6’ of overburden to be removed and used in reclamation of slopes limestone
to be mined and processed on site.
- B) 2 feet – 6 feet of overburden/topsoil will be removed to expose limestone deposit.
- C) No ground water is expected on site. Berms around the permit area consist of
topsoil stockpiles for future reclamation. Ditches are maintained within the permit
area in order to direct stormwater runoff into the pit.
- D) 15 acres (lay creek limestone pit) 15 acres (gravel pit) this constitutes the actual
proposed disturbed area of each mining area. The total acres in the entire
proposed permit is 241 acres.
- E) 15 acres phase I for both the lay creek limestone mining section and 15 acres for
the gravel pit section, to begin summer of 2021 and run until 2051 or until
limestone and gravel deposits are depleted.
- F) i 4’ – 5’ of dirt overburden to be removed at the lay creek pit 50 feet of
limestone rock to be mined at site. 3’ – 10’ of dirt overburden to be removed from
the gravel pit section and 20’ of gravel deposits to be mined.
ii limestone is at the bottom of the proposed mining depth of the Lay Creek pit
and red clay shale is at the bottom of the gravel pit section.

- G) Primary commodity (Lay Creek Limestone pit) is limestone to be used in construction materials. Secondary commodity to be fill dirt. Primary commodity (gravel pit section) is Sand and Gravel to be used as construction materials, . Secondary commodity to be fill dirt.
- H) Limestone (Lay Creek Limestone pit) to be used in production of construction materials.
- I) Mine currently uses explosives in the mining of the limestone deposit. Enclosed are the blast reports (exhibit D-I-1).

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Exhibit “E”
Reclamation Plan

- A) Reclamation will be done immediately following the removal of limestone deposits. Pit edges will be graded to 3:1 slopes and will be shaped to promote wildlife habitat. Reclaimed land will be covered with 6-10 inches of topsoil and reseeded. Pit edges will be replaced with a loader and shaped with an excavator or dozer.
- B) Post mining uses will be wildlife habitat and livestock grazing. Other land uses in the area are livestock grazing.
- C) Reclamation plan will be implemented at both locations upon the extraction of limestone deposits (Lay Creek pit) and sand and gravel (gravel pit section). Both sections to be mined starting the summer of 2021 and finishing upon the removal of deposits approx. 2051. Reclamation of Phase 1 to take place immediately following removal of limestone deposits (Lay Creek pit) and Gravel deposits (gravel pit section. After placing and shaping of reclaimed land, 6-10 inches of topsoil will be spread across reclaimed surfaces and will be seeded as follows per soil conservation office.
- D) N/A
- E)
 - i Affected land to be reclaimed by the summer 2051.
 - ii Phase I - 15 acres (Lay Creek pit) and 15 acres (gravel pit site).
 - iii 1 overburden placement and slope rebuilding.
 - 2 berm and edge pit shaping
 - 3 topsoil placement
 - 4 reseeded
- F)
 - i Slopes to be graded to 3:1
 - ii
 - 1 Sainfoin – 2.5 lbs/acre
 - 2 Bromine Smooth – 1.6 lbs/acre
 - 3 Intermediate Wheatgrass – 2.5 lbs/acre
 - 4 Pubescent Wheatgrass – 2.25 lbs/acre
 - 5 Orchard – 0.3 lbs/acre
 - iii N/A
 - iv N/A
 - v 6-10 inches of topsoil to be replaced on affected areas.

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Exhibit “G”

- 1) Operation is not expected to affect surface or ground water systems.
- 2)
 - A) No tributary water courses, springs, stock water ponds, reservoirs or ditches are present on affected or adjacent lands other than the ditches and stock ponds created during mining operations.
 - B) No known aquifers in area that will be disturbed. No water is expected to be encountered in mining.
 - C) Water from run off will be channeled into sediment ponds in the mining permit area.
 - D) Water for existing mine and proposed mine expansion will be imported.

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Exhibit “H”

- A) Mule deer grazing are the existing wildlife uses of the affected lands.
- B) N/A
- C) No endangered species are present on affected lands.
- D) Range land will be replaced after limestone deposits have been removed.

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Exhibit “J”

- A) Present vegetation is native grass with some sage. See Exhibit “I” for quantities and types of cover vegetation.
- B) See Exhibit “I”
- C) Carrying capacity for livestock is 2 animals to 1 acre.

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Exhibit “K”

Climate of proposed operation is mild summers to Klondike winters.

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Exhibit “L”

Lay Creek Limestone pit

- 1) Overburden – place and shape of slopes
8000 cubic yards at \$1.20/yd = \$9600
Topsoil placement – 4200 cubic yds at \$1.93/yd = \$8106
Grass seed mix - \$685
Trees/shrubs - \$750
Seed and tree placement - \$3200

Total Reclamation Cost of Phase 1 = \$22,341

Gravel pit section

- 2) Overburden – place and shape of slopes
9200 cubic yards at \$1.20/yd = \$11,040
Topsoil placement – 5150 cubic yds at \$1.93/yd = \$9,940
Grass seed mix - \$685
Trees/shrubs - \$750
Seed and tree placement - \$3200

Total Reclamation Cost of Phase 1 = \$22,341

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Exhibit “M”

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- 1) Bower Brothers Construction has filed for a conditional use permit from Moffat County for the expansion of existing mine.

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Exhibit “P”

Municipalities within a two-mile radius:

- 1) Moffat County Government
221 W. Victory Way
Craig, CO 81625
(970) 824-9180

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Exhibit “S”

- 1) There are no man-made structures within 200 feet of the proposed mine.

