



State of Utah

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Department of Natural Resources
Division of Oil, Gas and Mining


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January 10, 2024

TO: Utah Board of Oil Gas and Mining

THROUGH: Wayne Western – Mining Program Manager 
WW

FROM: Kim Coburn – Engineer 
KMC

SUBJECT: 2024 Reclamation Surety Amounts for Exploration and Small Mining Operations Including Small Mine Three- and Five-Year Escalation

Rule R647-3-111.3.13 allows the Division to calculate the required surety for a small mining operation using the average dollars per acre costs for reclamation of similar operations as determined by the Division based upon approved surety amounts for current large mining operations. These average costs must be approved by the Board of Oil, Gas and Mining. This memorandum details the amounts recommended to the Board for the average costs to be used for small mines and exploration projects.

Small mine sites are areas with twenty or fewer acres of disturbance in unincorporated areas or ten or fewer acres in incorporated areas. For the purpose of calculating the cost per acre, the Division assumes there are no structures, that earthwork and revegetation will be required for each site, and earthwork and revegetation will be conducted at the same time, not in separate operations.

If a site has structures, including vent shafts or portals, the cost of structure removal will be calculated as a line item. Sites with unusual features, such as large underground openings, are calculated based on information from vendors and other sources, such as the Abandoned Mine Land Reclamation program.

For mine sites with five or fewer acres, the Division assumes that all reclamation work can be accomplished with an excavator and a pickup truck for support. For sites larger than five acres but smaller than ten acres, the Division assumes reclamation will require an excavator and a D-8 bulldozer with a pickup truck for support.

In addition, the Division has introduced a Mini mine bond last year which is designed for the hobbyist. These are mines that are at most up to 2 acres in size where the work can be done in a day where the equipment rented from a typical hardware store for the maximum depth is 10 ft.

For sites that have received partial bond release for earthwork the Division assumes that surface preparation will be needed.

The reclamation cost estimates are escalated three or five years into the future for small mines using five years of the Average Means Historical Cost Index for Site Construction, National Average. Costs for exploration projects are escalated one year into the future then re-evaluated if an operator requests an extension for the project.

In the past the Division assumed a 150-mile mobilization/demobilization cost. Beginning in 2014, the Division has allowed the mob/demob cost to be decreased to a minimum of 50 miles (if there are at least three contractors that could conduct reclamation based within 50 miles of the site). The mob/demob costs should be increased as shown in the tables if the haul distance is greater than 50 miles.

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Exploration Notices

Project Size / Features	2024 Standard Surety Requirements	Comments
	1-year escalation (thru 2025)	
“Mini” Mine	\$4,400 / acre	Up to two acres
1 Acre (or less)	\$9,500 / acre	Minimum amount required; Includes \$3,300 mob / demob.
Additional Acres	\$6,100 / acre (for projects under 5 acres) Projects over 5 acres may need more surety.	Partial acres rounded to next acre (e.g. 1.2 acres = 2 acres)
Additional Mob / Demob	< 50 miles (one way) - no additional surety 51 - 100 miles (one way) - add \$1,700 101 - 150 miles (one way) - add \$3,800 151 - 200 miles (one way) - add \$5,000	In addition to surety for surface disturbance reclamation
Drilling (dry)	\$1,100 mob / demob, plus \$250 / hole (surface plug)	In addition to surety for surface disturbance reclamation
Drilling (wet), < 7-inch diameter < 2,500 feet depth	For holes less than 800 feet deep, \$8,700 mob / demob, plus \$5.50 / ft (subsurface plug)	In addition to surety for surface disturbance reclamation
	For holes 800 - 1,600 feet deep, \$13,000 mob / demob, plus \$6.00 / ft (subsurface plug)	
	For holes 1,600 - 2,500 feet deep, \$17,500 mob / demob, plus \$6.50 / ft (subsurface plug)	
Drilling, > 7-inch diameter > 2,500 feet depth Unusual conditions (e.g. units with oil/gas)	A third-party estimate may be needed.	In addition to surety for surface disturbance reclamation
Portals, 36 sq. ft. area max	\$2,000 / portal	In addition to above surety
Shafts, 6 ft. diameter max	\$3,000 / shaft	In addition to above surety
Large Portals / Shafts, Structures	Site-specific	In addition to above surety



Small Mining Operation Five or Fewer Acres Using an Excavator

Mine Size / Features	2024 Standard Surety Requirements		Comments
	3-year escalation (thru 2027)	5-year escalation (thru 2029)	
“Mini” Mine	\$5,000 (3-year escalation) \$5,500 (5-year escalation)		Up to two acres
1 Acre (or less)	\$10,500 (3-year escalation) \$11,600 (5-year escalation)		Minimum amount required; Includes \$3,300 mob/demob.
Additional Acres (5 total acres max)	\$6,700 / acre (3-year escalation) \$7,400 / acre (5-year escalation)		Partial acres rounded to next acre (e.g. 1.2 acres = 2 acres)
Cumulative Amount (5 acres, < 50 miles)	\$37,300 (3-year escalation) \$41,200 (5-year escalation)		\$3,900 difference between 3 and 5 year escalation
Additional Mob / Demob	3-year escalation: < 50 miles (one way) - no additional surety 51 - 100 miles (one way) - add \$1,800 101 - 150 miles (one way) - add \$4,100 151 - 200 miles (one way) - add \$5,500		In addition to surety for surface disturbance reclamation
	5-year escalation: < 50 miles (one way) - no additional surety 51 - 100 miles (one way) - add \$2,000 101 - 150 miles (one way) - add \$4,500 151 - 200 miles (one way) - add \$6,100		
Portals, 36 sq. ft. area max	\$2,000 / portal		In addition to above surety
Shafts, 6 ft. diameter max	\$3,000 / shaft		In addition to above surety
Large Portals / Shafts, Structures	Site-specific		In addition to above surety
Revegetation in conjunction with Earthwork (Estimated Seed Costs)	\$600 / acre		In addition to above surety
Revegetation (includes ripping)	\$2,000 / acre		In addition to above surety



Small Mining Operation over Five to Ten Acres Using a Dozer

Mine Size / Features	2024 Standard Surety Requirements		Comments
	3-year escalation (thru 2027)	5-year escalation (thru 2029)	
6 Acres	\$49,300 (3-year escalation)	\$54,400 (5-year escalation)	Minimum amount required; Includes \$7,100 mob/demob.
Additional Acres (10 total acres max)	\$7,600 / acre (3-year escalation)	\$8,400 / acre (5-year escalation)	Partial acres rounded to next acre (e.g. 5.2 acres = 6 acres)
Cumulative Amount (10 acres, < 50 miles)	\$79,700 (3-year escalation)	\$88,000 (5-year escalation)	\$8,300 difference between 3 and 5 year escalation
Additional Mob / Demob	3-year escalation: < 50 miles (one way) - no additional surety 51 - 100 miles (one way) - add \$2,300 101 - 150 miles (one way) - add \$4,500 151 - 200 miles (one way) - add \$6,700		In addition to surety for surface disturbance reclamation
	5-year escalation: < 50 miles (one way) - no additional surety 51 - 100 miles (one way) - add \$2,500 101 - 150 miles (one way) - add \$4,900 151 - 200 miles (one way) - add \$7,300		
Portals, 36 sq. ft. area max	\$2,000 / portal		In addition to above surety
Shafts, 6 ft. diameter max	\$3,000 / shaft		In addition to above surety
Large Portals / Shafts, Structures	Site-specific		In addition to above surety



Small Mining Operation over Ten to Fifteen Acres Using an Excavator, Dozer, & Truck

Mine Size / Features	2024 Standard Surety Requirements		Comments
	3-year escalation (thru 2027)	5-year escalation (thru 2029)	
11 Acres	\$ 97,800 (3-year escalation)	\$107,900 (5-year escalation)	Minimum amount required; Includes \$7,500 mob/demob.
Additional Acres (15 total acres max)	\$ 9,500 / acre (3-year escalation)	\$ 10,400 / acre (5-year escalation)	Partial acres rounded to next acre (e.g. 10.2 acres = 11 acres)
Cumulative Amount (15 acres, < 50 miles)	\$135,800 (3-year escalation)	\$149,500 (5-year escalation)	\$13,700 difference between 3 and 5 year escalation
Additional Mob / Demob	3-year escalation: < 50 miles (one way) - no additional surety 51 - 100 miles (one way) - add \$4,500 101 - 150 miles (one way) - add \$9,500 151 - 200 miles (one way) - add \$13,600		In addition to surety for surface disturbance reclamation
	5-year escalation: < 50 miles (one way) - no additional surety 51 - 100 miles (one way) - add \$5,000 101 - 150 miles (one way) - add \$10,400 151 - 200 miles (one way) - add \$14,900		
Portals, 36 sq. ft. area max	\$2,000 / portal		In addition to above surety
Shafts, 6 ft. diameter max	\$3,000 / shaft		In addition to above surety
Large Portals / Shafts, Structures	Site-specific		In addition to above surety



Small Mining Operation over Fifteen to Twenty Acres Using an Excavator, Dozer, & Truck

Mine Size / Features	2024 Standard Surety Requirements		Comments
	3-year escalation (thru 2027)	5-year escalation (thru 2029)	
16 Acres	\$158,700 (3-year escalation)	\$174,700 (5-year escalation)	Minimum amount required; Includes \$10,400 mob/demob.
Additional Acres (20 total acres max)	\$11,000 / acre (3-year escalation)	\$12,000 / acre (5-year escalation)	Partial acres rounded to next acre (e.g. 5.2 acres = 6 acres)
Cumulative Amount (20 acres, < 50 miles)	\$202,700 (3-year escalation)	\$222,700 (5-year escalation)	\$20,000 difference between 3 and 5 year escalation
Additional Mob / Demob	3-year escalation: < 50 miles (one way) - no additional surety 51 - 100 miles (one way) - add \$6,100 101 - 150 miles (one way) - add \$12,600 151 - 200 miles (one way) - add \$18,300		In addition to surety for surface disturbance reclamation
	5-year escalation: < 50 miles (one way) - no additional surety 51 - 100 miles (one way) - add \$6,700 101 - 150 miles (one way) - add \$13,900 151 - 200 miles (one way) - add \$20,100		
Portals, 36 sq. ft. area max	\$2,000 / portal		In addition to above surety
Shafts, 6 ft. diameter max	\$3,000 / shaft		In addition to above surety
Large Portals / Shafts, Structures	Site-specific		In addition to above surety

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