



COLORADO
Division of Reclamation,
Mining and Safety
Department of Natural Resources

August 8, 2025

Nancy Normore
Shift Exploration Inc.
503-905 West Pender Street
Vancouver, BC V6C 1L6 Canada

**RE: COYOTE BASIN PROJECT, FILE NO. P-2025-011 SHIFT EXPLORATION INC.,
NOTICE OF INTENT TO CONDUCT EXPLORATION OPERATIONS, ADEQUACY
REVIEW NO. 2**

Dear Nancy Normore:

The Division of Reclamation, Mining and Safety (Division) is in the process of reviewing the above referenced application in order to ensure that it adequately satisfies the requirements of the Colorado Mined Land Reclamation Act (Act) and the associated Mineral Rules and Regulations of the Colorado Mined Land Reclamation Board for Hard Rock, Metal, and Designated Mining Operations (Rules). The Division received your adequacy review response dated August 4, 2025. During review of the material submitted, the Division determined that the following issue(s) of concern shall be adequately addressed before a decision can be rendered.

Maps

1. Pursuant to Rule 6.2.1(2)(a-d), which is applicable to all types of permit applications, "Maps, except the index map, must conform to the following criteria: show name of Applicant, must be prepared and signed by a registered land surveyor, professional engineer, or other qualified person; and give date prepared. Maps / Figures submitted with this application do not adhere to the above requirements. In addition to adding the required elements, please also update the Permittee name on maps and in the legend to 'Shift Exploration Inc.' **Resolved.**
2. It is the Division's understanding that various updates to the maps have been made during the BLM NOI review process. Please ensure any changes are also reflected on new maps submitted to the Division, including changes to the location of drill holes, trenches, fences, access trails, etc. **Resolved.**
3. For precision of reference to the proposed NOI project area, please provide the Division with .kmz or shapefile versions of key project points and polygons, e.g. drill holes, laydown areas, access paths, etc. **Resolved.**



Section III

4. Under Item No. 6(k), the applicant states that it is not anticipated that any drill holes will encounter groundwater. For all holes to be drilled, provide supporting hydrologic documentation to clarify which plugging and abandonment method is to be utilized at which hole to minimize impacts to the prevailing hydrologic balance pursuant to Rule 3.1.6(1). If the hydrologic information, including depth to Groundwater is unknown or unavailable, the Division will be required to default bonding to cement plugging to depth for each hole in order to ensure compliance with Rule 5.4.2(4). *The State of Colorado (State) has the obligation to ensure that a financial warranty is sufficient to complete reclamation of all affected lands in the event of forfeiture per Rule 4.2.1(2). That bond amount is limited to covering the maximum disturbance liability of a one year period and shall also be computed with reference to current reclamation cost, i.e. inflation (CRS 34-32/32.5-117(4)(b)(I)). The Board (through staff) shall prescribe the bond amount necessary taking into account the nature, extent, and duration of the proposed mining operation and the magnitude, type, and estimated cost of planned reclamation (CRS 34-32/32.5-117(4)(a)). The Division calculates all reclamation cost estimates for projects based on a 'worst case scenario' basis to comply with the 'maximum disturbance liability' clause of the above Rule citation. Since groundwater depths in historical data range from 140 ft to 820 ft and since all 38 drill holes proposed for this NOI are to be between 300 and 1000 feet, it is reasonably likely that groundwater will be encountered at one or multiple drilling sites. Therefore, the Division must bond accordingly in line with the standard 'worst case scenario' policy wherein it would be required that a drill hole be fully grouted to depth as a P&A method to ensure compliance with Rule 5.4.2 and protect surrounding hydrologic balance. The Division cannot bond only for a 5ft cement plug as stated, as this would not represent the full cost to reclaim a drillhole should artesian flow or multiple aquifers be encountered.*

Section IV

5. The applicant's application with the BLM states that "Drill cuttings will be returned to the hole as much as possible during hole abandonment". The Division interprets this statement to mean that some excavated spoils and drill cuttings may not be able to be returned to the drill hole. Drill cuttings may contain ore body materials and should be handled accordingly. If excess cuttings are to be buried onsite in final reclamation, please commit to on site disposal of all cuttings with a minimum of 36" of total cover over the disposal location at each pad. **Resolved.**
6. Item No. 7 lists a 'Desert Sage Scrub Mix' as the seed mix at 39 PLS/Acre. Please provide a more detailed list of species (plant name) included within the proposed seed mix along with their proposed PLS/Acre seeding rate as required in Section A of No 7. Please also specify a method of seeding (e.g. broadcast, drill seed, push spreader etc.). *The applicant's response does not identify the species and PLS/Acre seeding rate as requested. The applicant's response notes a BLM approved seed mix will be used. Please provide the details of the seed mix (species and PLS/Acre) as requested so that the Division can calculate an accurate seeding rate for revegetation bonding tasks. Please also specify a method of seeding, as requested.*
7. For drill pad, trench, and laydown areas from which topsoil will be salvaged and stockpiled, please provide an approximate depth in inches or total CY of topsoil to be removed and stockpiled. Please also clarify where topsoil will be stored in relation to drill pad, trench and laydown features while stockpiled. If stockpiles will be out of the boundaries of these features, please provide an approximate acreage footprint for all topsoil stockpiles combined and add their locations to the appropriate maps / figures. *Please confirm that the 315.4 CY of material noted to be excavated for the three trench areas includes CY volume of topsoil*

to be removed and that the ~6 CY of material excavated from the 4x8x5ft sumps includes CY of topsoil to be removed.

Financial Warranty

8. The applicant's NOI application to the BLM explicitly states that only one hole will be open at a time and that full reclamation will occur before moving on to the next drill site. However, this is not stated as explicitly within the application materials submitted to the Division. Please clarify for the Division that this type of drilling and reclamation is the intent and commit to following this method of concurrent reclamation throughout the life of the project. Should Shift Exploration Inc. wish to commit to a phased bonding approach to reduce the project's required bond amount (i.e. 1 hole open at a time), please be aware that the Division will require submission and review of abandonment reports for the maximum number of drill holes bonded for prior to the approval of Shift Exploration Inc. continuing to additional drill holes. To avoid excessive required submittals, the Division suggests that Shift Exploration Inc. propose to have ~10 holes open at a time to both reduce the required bond amount and reduce the number of times Shift Exploration Inc. will need to receive approval from the Division to move on to the next set of drill holes. **Resolved.**
9. The Division has calculated a preliminary Reclamation Cost Estimate (RCE) for the proposed prospecting operation. A copy of this estimate has been included below for your review. The final RCE number may change based on your response to the review issues above.
10. As discussed via phone conversation on August 8, 2025, the Division asks that the applicant commit to providing updates on a reasonable basis (weekly to bi-weekly) to the Division affirming concurrent reclamation of the project's proposed drilling project. This may be submitted directly to the Division via e-permitting and should include proper Abandonment Reports in accordance with Rule 5.7.

Please be reminded that the proposed prospecting operations identified in the application may not commence until the deficiencies are addressed and the bond is submitted and approved by the Division.

If you require additional information, or have questions or concerns, please feel free to contact me at 720-868-7757 or hunter.ridley@state.co.us

Sincerely,
Hunter C. Ridley



Environmental Protection Specialist

CC: Zach Trujillo, DRMS

COST SUMMARY WORK

Task description: _____

Site: Coyote Basin Project

Permit Action: New Application

Permit/Job#: P2025011

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 7/29/2025

County: Moffat

Filename: P011-000

User: HR1

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Plug & abandon drill hole	BOREHOLE	1	10.00	\$9,185
002	Backfill sumps & repalce topsoil @ 38 pads	DOZER	1	1.37	\$279
003	Rip compacted drill pads @ 38 pads	RIPPER	1	2.82	\$604
004	Reveg drill pads @ 38 pads	REVEGE	1	2.00	\$9,974
005	Backfill & repalce topsoil @ 3 trenches	DOZER	1	5.68	\$1,155
006	Scarify trenches for seeding preparation	RIPPER	1	0.21	\$46
007	Reveg trenches x 3	REVEGE	1	1.00	\$767
008	Rip compacted laydown area x 5	RIPPER	1	2.17	\$464
009	Reveg laydown area x 5	REVEGE	1	1.00	\$7,672
010	Demo of fenced sump area x 1	DEMOLISH	1	1.00	\$52
011	Moblization to and from site	MOBILIZE	1	5.73	\$3,412
<u>SUBTOTALS:</u>				32.98	\$33,610

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02
Performance bond: 1.05
Job superintendent: 16.49
Profit: 10.00

Total = \$679
Total = \$353
Total = \$1,239
Total = \$3,361

TOTAL O & P = \$5,632

CONTRACT AMOUNT (direct + O & P) = \$39,242

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$0
Engineering work and/or contract/bid preparation: 0.00
Reclamation management and/or administration: 5.00

Total = \$0
Total = \$0
Total = \$1,962

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$7,594

TOTAL BOND AMOUNT (direct + indirect) = \$41,204

BOREHOLE SEALING WORK

Task description: Plug & abandon drill hole

Site: Coyote Basin Project

Permit Action: New Application

Permit/Job#: P2025011

PROJECT IDENTIFICATION

Task #: 001

State: Colorado

Abbreviation: None

Date: 7/30/2025

County: Moffat

Filename: P011-001

User: HR1

Agency or organization name: DRMS

UNIT COSTS

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Exploration Hole	Portland cement grout - 6 in. (labor, equip, materials)	6	1000	1,000.00	LF	\$9.19	\$9,185.00

Job Hours: 10.00

Total Cost: \$9,185.00

BULLDOZER WORKTask description: **Backfill sumps & repalce topsoil @ 38 pads**Site: **Coyote Basin Project**Permit Action: New ApplicationPermit/Job#: P2025011**PROJECT IDENTIFICATION**Task #: 002State: ColoradoAbbreviation: NoneDate: 7/30/2025County: MoffatFilename: P011-002User: HR1Agency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D6T XLHorsepower: 185Blade Type: Semi-UniversalAttachment: NAShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$96.51</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$68.86</u>	<u>100</u>
Ripper own. Cost/Hour:	<u>\$0.00</u>	<u>NA</u>
Ripper op. Cost/Hour:	<u>\$0.00</u>	<u>0</u>
Operator Cost/Hour:	<u>\$38.02</u>	<u>NA</u>

Total unit Cost/Hour: \$203.39Total Fleet Cost/Hour: **\$203.39****MATERIAL QUANTITIES**Initial Volume: 228Swell factor: 1.000Loose volume: **228 LCY**Source of estimated volume: X CY topsoil + 6 CY sump backfil x 38Source of estimated swell factor: Deficiency Response**HOURLY PRODUCTION**Average push distance: 50 feetUnadjusted hourly production: 444.6 LCY/hrMaterials consistency description: Loose stockpile 1.2Average push gradient: 5 %Average site altitude: 6,000 feetMaterial weight: 2,900 lbs/LCYWeight description: Decomposed rock - 50% Rock, 50% Earth**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	<u>0.750</u>	<u>(AVG.)</u>
Material consistency:	<u>1.200</u>	<u>(CAT HB)</u>
Dozing method:	<u>1.000</u>	<u>(GEN.)</u>
Visibility:	<u>1.000</u>	<u>(AVG.)</u>

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	0.903	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3744

Adjusted unit production: 166.46 LCY/hr

Adjusted fleet production: **166.46** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$1.222/LCY

Total job time: **1.37** Hours

Total job cost: **\$279**

BULLDOZER RIPPING WORK

Task description: Rip compacted drill pads @ 38 pads

Site: Coyote Basin Project Permit Action: New Application Permit/Job#: P2025011

PROJECT IDENTIFICATION

Task #: 003 State: Colorado Abbreviation: None
Date: 7/30/2025 County: Moffat Filename: P011-003
User: HR1

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat D6T XL Horsepower: 185
Ripper Attachment: 3-Shank Ripper Shift Basis: 1 per day
Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	<u>\$96.51</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$68.86</u>	<u>100</u>
Ripper Ownership Cost/Hour:	<u>\$6.05</u>	<u>NA</u>
Ripper Operating Cost/Hour:	<u>\$4.01</u>	<u>100</u>
Operator Cost/Hour:	<u>\$38.02</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$213.45</u>	
Total Fleet Cost/Hour:	<u>\$213.45</u>	

MATERIAL QUANTITIES

Selected estimating method: Area

Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA
Area: 1.30 acres Rip Depth (ft): 1.00 Volume: 2,097 BCY or CCY

Source of estimated quantity: Notice of Deficiency Responses & BLM NOI Application

HOURLY PRODUCTION

Seismic:

Seismic Velocity: NA feet/second

Area:

Average Ripping Depth:	<u>1.64</u>	<u>feet/pass</u>
Average Ripping Width:	<u>6.58</u>	<u>feet/pass</u>
Average Ripping Length:	<u>50.00</u>	<u>feet/pass</u>
Average Dozer Speed:	<u>88.00</u>	<u>feet/minute</u>
Average Maneuver Time:	<u>0.25</u>	<u>minutes/pass</u>
Production per unit area:	<u>0.554</u>	<u>acres/hour</u>

Job Condition Correction Factors

Unadjusted Hourly Unit Production:	<u>0.554</u>	<u>Acres/hr</u>
Site Altitude:	<u>6,000</u>	<u>feet</u>
Altitude Adj:	<u>1.00</u>	<u>(CAT HB)</u>
Job Efficiency:	<u>0.83</u>	<u>(1 shift/day)</u>
Net Correction:	<u>0.83</u>	<u>multiplier</u>
Adjusted Hourly Unit Production:	<u>0.46</u>	<u>Acres/hr</u>
Adjusted Hourly Fleet Production:	<u>0.46</u>	<u>Acres/hr</u>

JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: 2.83 Hours
Unit cost: \$464.311 Per acre Total job cost: \$604

REVEGETATION WORKTask description: Reveg drill pads @ 38 padsSite: Coyote Basin ProjectPermit Action: New ApplicationPermit/Job#: P2025011PROJECT IDENTIFICATIONTask #: 004
Date: 7/30/2025
User: HR1State: Colorado
County: MoffatAbbreviation: None
Filename: P011-004Agency or organization name: DRMSFERTILIZING**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials Cost/Acre	\$0.00

Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

TILLING

Description	Cost /Acre
	\$
Total Tilling Cost/Acre	\$0.00

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Sagebrush, Mountain or Big	39.00	2,059.23	\$3,302.35
Totals Seed Mix	39.00	2,059.23	\$3,302.35

Application

Description	Cost /Acre
Push spreader (MEANS 32 92 19.14 0020)	\$2,178.00

Total Seed Application Cost/Acre	\$2,178.00
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MULCHING and MISCELLANEOUS**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acre	\$0.00

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
Totals Nursery Stock Cost / Acre					\$0.00

JOB TIME AND COST

No. of Acres:	1.3	Cost /Acre:	\$5,480.35
Estimated Failure Rate:	40%	Cost /Acre*:	\$5,480.35
*Selected Replanting Work Items:	SEEDING		

Initial Job Cost:	\$7,124.46
Reseeding Job Cost:	\$2,849.78
Total Job Cost:	\$9,974
Job Hours:	2.00

BULLDOZER WORKTask description: **Backfill & repalce topsoil @ 3 trenches**Site: **Coyote Basin Project**Permit Action: **New Application**Permit/Job#: **P2025011****PROJECT IDENTIFICATION**Task #: **005**State: **Colorado**Abbreviation: **None**Date: **7/30/2025**County: **Moffat**Filename: **P011-005**User: **HR1**Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**Basic Machine: **Cat D6T XL**Horsepower: **185**Blade Type: **Semi-Universal**Attachment: **NA**Shift Basis: **1 per day**Data Source: **(CRG)****Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$96.51	NA
Operating Cost/Hour:	\$68.86	100
Ripper own. Cost/Hour:	\$0.00	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$38.02	NA

Total unit Cost/Hour: **\$203.39**Total Fleet Cost/Hour: **\$203.39****MATERIAL QUANTITIES**Initial Volume: **945**Swell factor: **1.000**Loose volume: **945 LCY**Source of estimated volume: **X CY topsoil + 315 CY trench backfill x 3**Source of estimated swell factor: **Deficiency Response****HOURLY PRODUCTION**Average push distance: **50 feet**Unadjusted hourly production: **444.6 LCY/hr**Materials consistency description: **Loose stockpile 1.2**Average push gradient: **5 %**Average site altitude: **6,000 feet**Material weight: **2,900 lbs/LCY**Weight description: **Decomposed rock - 50% Rock, 50% Earth****Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	1.200	(CAT HB)
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	0.903	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3744

Adjusted unit production: 166.46 LCY/hr

Adjusted fleet production: **166.46** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$1.222/LCY

Total job time: **5.68** Hours

Total job cost: **\$1,155**

BULLDOZER RIPPING WORK

Task description: Scarify trenches for seeding preparation

Site: Coyote Basin Project Permit Action: New Application Permit/Job#: P2025011

PROJECT IDENTIFICATION

Task #: 006 State: Colorado Abbreviation: None
Date: 7/30/2025 County: Moffat Filename: P011-006
User: HR1

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat D6T XL Horsepower: 185
Ripper Attachment: 3-Shank Ripper Shift Basis: 1 per day
Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	<u>\$96.51</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$68.86</u>	<u>100</u>
Ripper Ownership Cost/Hour:	<u>\$6.05</u>	<u>NA</u>
Ripper Operating Cost/Hour:	<u>\$4.01</u>	<u>100</u>
Operator Cost/Hour:	<u>\$38.02</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$213.45</u>	
Total Fleet Cost/Hour:	<u>\$213.45</u>	

MATERIAL QUANTITIES

Selected estimating method: Area

Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA
Area: 0.10 acres Rip Depth (ft): 0.30 Volume: 48 BCY or CCY

Source of estimated quantity: Application Section IV 7(B)

HOURLY PRODUCTION

Seismic:

Seismic Velocity: NA feet/second

Area:

Average Ripping Depth: 1.64 feet/pass
Average Ripping Width: 6.58 feet/pass
Average Ripping Length: 50.00 feet/pass
Average Dozer Speed: 88.00 feet/minute
Average Maneuver Time: 0.25 minutes/pass
Production per unit area: 0.554 acres/hour

Job Condition Correction Factors

Unadjusted Hourly Unit Production: 0.554 Acres/hr
Site Altitude: 6,000 feet
Altitude Adj: 1.00 (CAT HB)
Job Efficiency: 0.83 (1 shift/day)
Net Correction: 0.83 multiplier

Adjusted Hourly Unit Production: 0.46 Acres/hr
Adjusted Hourly Fleet Production: 0.46 Acres/hr

JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: 0.22 Hours

Unit cost: \$464.311 Per acre Total job cost: \$46

REVEGETATION WORKTask description: Reveg trenches x 3Site: Coyote Basin ProjectPermit Action: New ApplicationPermit/Job#: P2025011PROJECT IDENTIFICATIONTask #: 007
Date: 7/30/2025
User: HR1State: Colorado
County: MoffatAbbreviation: None
Filename: P011-007Agency or organization name: DRMSFERTILIZING**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials Cost/Acre	\$0.00

Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

TILLING

Description	Cost /Acre
	\$
Total Tilling Cost/Acre	\$0.00

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Sagebrush, Mountain or Big	39.00	2,059.23	\$3,302.35
Totals Seed Mix	39.00	2,059.23	\$3,302.35

Application

Description	Cost /Acre
Push spreader (MEANS 32 92 19.14 0020)	\$2,178.00

Total Seed Application Cost/Acre	\$2,178.00
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MULCHING and MISCELLANEOUS**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acre	\$0.00

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
Totals Nursery Stock Cost / Acre					\$0.00

JOB TIME AND COST

No. of Acres:	0.1	Cost /Acre:	\$5,480.35
Estimated Failure Rate:	40%	Cost /Acre*:	\$5,480.35
*Selected Replanting Work Items:	SEEDING		

Initial Job Cost:	\$548.04
Reseeding Job Cost:	\$219.21
Total Job Cost:	\$767
Job Hours:	1.00

BULLDOZER RIPPING WORK

Task description: Rip compacted laydown area x 5

Site: Coyote Basin Project Permit Action: New Application Permit/Job#: P2025011

PROJECT IDENTIFICATION

Task #: 008 State: Colorado Abbreviation: None
Date: 7/30/2025 County: Moffat Filename: P011-008
User: HR1

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat D6T XL Horsepower: 185
Ripper Attachment: 3-Shank Ripper Shift Basis: 1 per day
Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	<u>\$96.51</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$68.86</u>	<u>100</u>
Ripper Ownership Cost/Hour:	<u>\$6.05</u>	<u>NA</u>
Ripper Operating Cost/Hour:	<u>\$4.01</u>	<u>100</u>
Operator Cost/Hour:	<u>\$38.02</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$213.45</u>	
Total Fleet Cost/Hour:	<u>\$213.45</u>	

MATERIAL QUANTITIES

Selected estimating method: Area

Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA
Area: 1.00 acres Rip Depth (ft): 1.00 Volume: 1,613 BCY or CCY

Source of estimated quantity: Application and BLM NOI Application, 0.2 acres x 5

HOURLY PRODUCTION

Seismic:

Seismic Velocity: NA feet/second

Area:

Average Ripping Depth:	<u>1.64</u>	<u>feet/pass</u>
Average Ripping Width:	<u>6.58</u>	<u>feet/pass</u>
Average Ripping Length:	<u>50.00</u>	<u>feet/pass</u>
Average Dozer Speed:	<u>88.00</u>	<u>feet/minute</u>
Average Maneuver Time:	<u>0.25</u>	<u>minutes/pass</u>
Production per unit area:	<u>0.554</u>	<u>acres/hour</u>

Job Condition Correction Factors

Unadjusted Hourly Unit Production:	<u>0.554</u>	<u>Acres/hr</u>
Site Altitude:	<u>6,000</u>	<u>feet</u>
Altitude Adj:	<u>1.00</u>	<u>(CAT HB)</u>
Job Efficiency:	<u>0.83</u>	<u>(1 shift/day)</u>
Net Correction:	<u>0.83</u>	<u>multiplier</u>

Adjusted Hourly Unit Production:	<u>0.46</u>	<u>Acres/hr</u>
Adjusted Hourly Fleet Production:	<u>0.46</u>	<u>Acres/hr</u>

JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: 2.18 Hours

Unit cost: \$464.311 Per acre Total job cost: \$464

REVEGETATION WORKTask description: Reveg laydown area x 5Site: Coyote Basin ProjectPermit Action: New ApplicationPermit/Job#: P2025011**PROJECT IDENTIFICATION**Task #: 009State: ColoradoAbbreviation: NoneDate: 8/5/2025County: MoffatFilename: P011-009User: HR1Agency or organization name: DRMS**FERTILIZING****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials Cost/Acre	\$0.00

Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

TILLING

Description	Cost /Acre
	\$
Total Tilling Cost/Acre	\$0.00

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Sagebrush, Mountain or Big	39.00	2,059.23	\$3,302.35
Totals Seed Mix	39.00	2,059.23	\$3,302.35

Application

Description	Cost /Acre
Push spreader (MEANS 32 92 19.14 0020)	\$2,178.00

Total Seed Application Cost/Acre	\$2,178.00
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MULCHING and MISCELLANEOUS**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acre	\$0.00

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
Totals Nursery Stock Cost / Acre					\$0.00

JOB TIME AND COST

No. of Acres:	1	Cost /Acre:	\$5,480.35
Estimated Failure Rate:	40%	Cost /Acre*:	\$5,480.35
*Selected Replanting Work Items:	SEEDING		

Initial Job Cost:	\$5,480.35
Reseeding Job Cost:	\$2,192.14
Total Job Cost:	\$7,672
Job Hours:	1.00

DEMOLITION WORK

Task description: **Demo of fenced sump area x 1**

Site: **Coyote Basin Project**

Permit Action: New Application

Permit/Job#: P2025011

PROJECT IDENTIFICATION

Task #: 010

State: Colorado

Abbreviation: None

Date: 8/5/2025

County: Moffat

Filename: P011-010

User: HR1

Agency or organization name: DRMS

UNIT COSTS

Location adjustment: 89.80 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Sump fencing	4 x 8 ft	Fencing, barbed wire, - 3 strand	32.00	LF	\$1.80	\$57.60

Job Hours: 1.00

Subtotal
(unadjusted): \$57.60

Total Cost
(adjusted for location): \$51.72

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Moblization to and from site**Site: **Coyote Basin Project**Permit Action: **New Application**Permit/Job#: **P2025011****PROJECT IDENTIFICATION**Task #: **011**State: **Colorado**Abbreviation: **None**Date: **8/5/2025**County: **Moffat**Filename: **P011-011**User: **HR1**Agency or organization name: **DRMS****EQUIPMENT TRANSPORT RIG COST**Shift basis: **1 per day**Cost Data Source: **CRG Data**Truck Tractor Description: **GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED,
400 HP (2ND HALF, 2006)**Truck Trailer Description: **GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT
TRAILER (25T, 50T, AND 100T)****Cost Breakdown:**

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
Ownership Cost/Hour:	\$21.47	\$38.32	\$48.96
Operating Cost/Hour:	\$31.47	\$60.11	\$65.86
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52
Helper Cost/Hour:	\$0.00	\$22.25	\$22.25
Total Unit Cost/Hour:	\$75.46	\$143.20	\$159.59

NON ROADABLE EQUIPMENT:

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Cat D6T XL	25.01	\$102.56	\$75.46	1	\$178.02	\$75.46	\$250.00
ATLAS COPCO ROC L6,6.0 in.	0.00	\$260.87	\$75.46	1	\$336.33	\$75.46	\$250.00

Subtotals: **\$514.35** **\$150.92** **\$500.00****ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 3/4 T.	\$22.72	1	\$22.72	\$22.72
Water Tanker, 3,500 Gal.	\$53.04	1	\$53.04	\$53.04

Subtotals: **\$75.76** **\$75.76**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: CRAIG
 Total one-way travel distance: 42.00 miles
 Average Travel Speed: 45.00 mph

Total Non-Roadable Mob/Demob Cost * \$3,270.54
 ** two round trips with haul rig:
 Total Roadable Mob/Demob Cost ** \$141.42
 ** one round trip, no haul rig:

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.93</u>	<u>0.93</u>
Return Time (Hours):	<u>0.93</u>	<u>0.93</u>
Loading Time (Hours):	<u>0.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.50</u>	<u>NA</u>
Subtotals:	<u>2.87</u>	<u>1.87</u>

JOB TIME AND COST

Total job time: 5.73 Hours

Total job cost: \$3,412