



COLORADO

Division of Reclamation,
Mining and Safety


Department of Natural Resources

MINERALS PROGRAM INSPECTION REPORT

PHONE: (303) 866-3567

The Division of Reclamation, Mining and Safety has conducted an inspection of the mining operation noted below. This report documents observations concerning compliance with the terms of the permit and applicable rules and regulations of the Mined Land Reclamation Board.

MINE NAME: Juniper Mountain Gravel	MINE/PROSPECTING ID#: M-2003-073	MINERAL: Gravel	COUNTY: Moffat
INSPECTION TYPE: Monitoring	INSPECTOR(S): Amy C. Yeldell	INSP. DATE: September 21, 2016	INSP. TIME: 08:00
OPERATOR: Moffat Limestone Company	OPERATOR REPRESENTATIVE: None	TYPE OF OPERATION: 112c - Construction Regular Operation	

REASON FOR INSPECTION: Normal I&E Program	BOND CALCULATION TYPE: Complete Bond	BOND AMOUNT: \$43,721.00
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None
WEATHER: Cloudy	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: September 29, 2016

The following inspection topics were identified as having Problems or Possible Violations. OPERATORS SHOULD READ THE FOLLOWING PAGES CAREFULLY IN ORDER TO ASSURE COMPLIANCE WITH THE TERMS OF THE PERMIT AND APPLICABLE RULES AND REGULATIONS. If a Possible Violation is indicated, you will be notified under separate cover as to when the Mined Land Reclamation Board will consider possible enforcement action.

INSPECTION TOPIC: Availability Of Records

PROBLEM/POSSIBLE VIOLATION: Problem: Rule 1.13.5 states, if an Operator temporarily ceases production of the mining operation for one hundred eighty (180) days or more, the Operator must file a Notice of Temporary Cessation in writing to the Office.

CORRECTIVE ACTIONS: The Division recommends the Operator file for Temporary Cessation. The start date of the initial 5 year Temporary Cessation period is retroactive to the last date the pit was active. If that date is more than 5 years ago, the operator is required ask the Board for a 5 year extension to the Temporary Cessation period (per rule 1.13.5 (3) and 1.13.8 (b) or begin reclamation.

CORRECTIVE ACTION DUE DATE: 11/29/16

INSPECTION TOPIC: Availability Of Records

PROBLEM/POSSIBLE VIOLATION: Problem: The Division has not received your 2016 annual report, map and fee.

CORRECTIVE ACTIONS: Please submit the report by the corrective action date.

CORRECTIVE ACTION DUE DATE: 11/29/16

OBSERVATIONS

This inspection was conducted as part of the Colorado Division of Reclamation, Mining and Safety normal monitoring program. The Juniper Mountain Gravel site is a 112c gravel operation that consists of 60 acres with a max disturbance of 15 acres. No operator representative was present during the inspection. Amy Yeldell of the Division conducted the inspection. The site is located in Moffat County approximately two mile southeast of Maybell, Colorado and is accessed from Moffat County Road 57.

The mine identification sign and affected area boundary markers are in place and in compliance with Rule 3.1.12. The mine sign was located at the main entrance as you leave CR 57. The boundary is delineated by a fence on the east side and t-post on the remaining sides.

No fuel was stored on site. A drill seeder and metal skid building were stored on site.

Less than 15 acres is disturbed. There are several small highwalls scattered throughout the site. It doesn't appear that any one area has been mined out completely or that reclamation has intentionally been completed. Large amounts of volunteer vegetation has established unfortunately the site requires additional grading so many of these areas will have to be disturbed. There are several large stockpiles of various material types located throughout the site.

The remaining regarding for this site consists of flattening stockpiles and highwall reductions. The majority of reclamation liability consist of topsoil replacement and seeding.

Several weeds were observed. It is too late in the year to effectively treat them. The Division strongly recommends that you spray for all noxious weeds and implement the approved weed management plan. The site conditions appear to be similar to the informal inspection conducted on November 24, 2015. Staff as a courtesy reviewed the site with the new company owners and discussed potential outcomes for the mine site. The site has begun to self-reclaim due to inactivity for a prolonged period. This is cited as a problem. The operator shall notify the Division of its intent to begin final reclamation in writing or be subject to Rule 1.13 regarding activity levels. The form to request temporary cessation status is included with this report. The operator may also request intermittent status. Please notify the Division in writing within 60 days of this inspection.

Active status requires mining annually more than 180 days which this operation does not do. Intermittent status requires that a site be active annually however does not operate more than 180 days a year. If the mine ceases production for more than a year it shall go into temporary cessation.

If the operator notifies the Divisions of its intent to begin final reclamation within 60 days of this report and begins reclamation activities in 2017 the Division will consider the current bond amount of \$43,721 adequate.

The Division will schedule a follow up inspection in fall of 2017 to reevaluate the bond after reclamation activities have commenced. If the Division does not receive notice of final reclamation then the Division will update the reclamation cost estimate, which will result in a surety increase. Attached is the reclamation cost estimate which is based on a worst case scenario per the approved plans. It is noted that the bond has not been increased since the permit issuance in 2003.

The Division has not received your 2016 annual report, map and fee. This is cited as a problem. Please submit the report by the corrective action date.

Responses to this inspection report should be directed to: Amy Yeldell at the Division of Reclamation, Mining and Safety, 1313 Sherman St., Room 215, Denver, CO 80203. Direct contact can be made by phone at 970-254-8511 or via email at amy.yeldell@ state.co.us

PHOTOGRAPHS

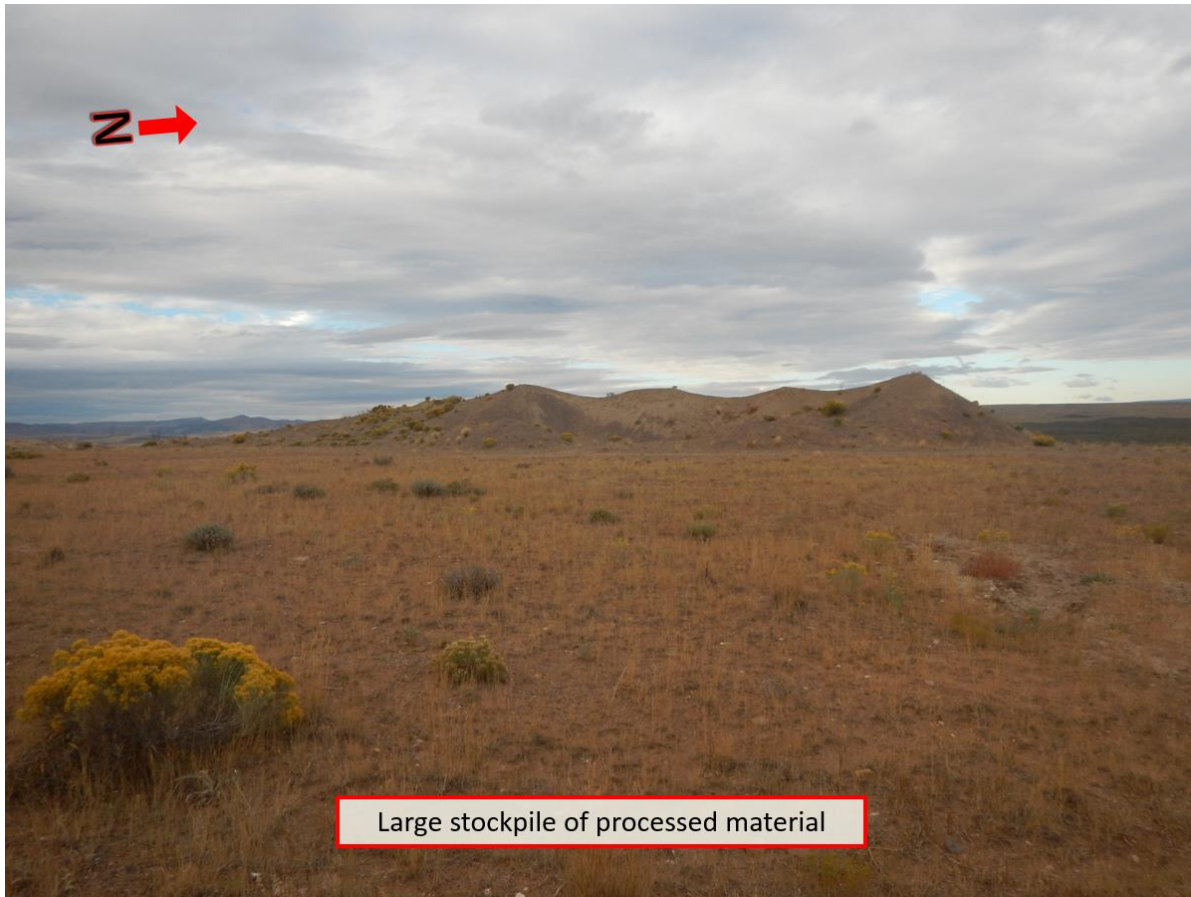












GENERAL INSPECTION TOPICS

The following list identifies the environmental and permit parameters inspected and gives a categorical evaluation of each

(AR) RECORDS----- <u>PB</u>	(FN) FINANCIAL WARRANTY----- <u>N</u>	(RD) ROADS----- <u>Y</u>
(HB) HYDROLOGIC BALANCE----- <u>N</u>	(BG) BACKFILL & GRADING----- <u>N</u>	(EX) EXPLOSIVES----- <u>NA</u>
(PW) PROCESSING WASTE/TAILING---- <u>N</u>	(SF) PROCESSING FACILITIES----- <u>N</u>	(TS) TOPSOIL----- <u>Y</u>
(MP) GENL MINE PLAN COMPLIANCE- <u>Y</u>	(FW) FISH & WILDLIFE----- <u>N</u>	(RV) REVEGETATION---- <u>Y</u>
(SM) SIGNS AND MARKERS----- <u>Y</u>	(SP) STORM WATER MGT PLAN---- <u>N</u>	(CI) COMPLETE INSP---- <u>N</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>N</u>	(SC) EROSION/SEDIMENTATION--- <u>Y</u>	(RS) RECL PLAN/COMP-- <u>Y</u>
(AT) ACID OR TOXIC MATERIALS----- <u>N</u>	(OD) OFF-SITE DAMAGE----- <u>N</u>	(ST) STIPULATIONS----- <u>Y</u>

Y = Inspected and found in compliance / N = Not inspected / NA = Not applicable to this operation / PB = Problem cited / PV = Possible violation cited

Inspection Contact Address

None
Moffat Limestone Company
P O Box 777
Craig, CO 81626

Enclosure

EC: Russ Means, Senior EPS, GJFO DRMS

COST SUMMARY WORK

Task description: Updated post inspection 09-21-2016

Site: Juniper Mountain Gravel

Permit Action: 2016-09

Permit/Job#: M2003073

PROJECT IDENTIFICATION

Task #: ACY

State: Colorado

Abbreviation: None

Date: 9/28/2016

County: Moffat

Filename: M073-ACY

User: ACY

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Reduce highwall to 3H:1V grade (mid-point in mining)	DOZER	1	3.28	\$557.00
02a	Replace overburden on max 15 acre disturbance	SCRAPER1	1	40.05	\$10,761.00
03a	Replace topsoil over 15 acre max disturbance	SCRAPER1	1	19.94	\$5,358.00
04a	Grade replaced overburden and topsoil when necessary	DOZER	1	22.36	\$3,004.00
05a	Broadcast application of shrubs seeds during first year	REVEGE	1	16.00	\$12,500.00
06a	Drill application of grass seed in second year	REVEGE	1	36.00	\$10,366.00
07a	Replace 1100 feet of four strand barb wire fence	SITEMAINT ENANCE	1	40.00	\$2,365.00
08a	Transport reclamation equipment to/from site	MOBILIZE	1	4.40	\$4,534.00
<u>SUBTOTALS:</u>				182.03	\$49,445

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02
Performance bond: 1.05
Job superintendent: 93.09
Profit: 10.00

Total = \$998.79

Total = \$519.17

Total = \$6,933.34

Total = \$4,944.50

TOTAL O & P = \$13,395.80

CONTRACT AMOUNT (direct + O & P) = \$62,840.80

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): 500.00

Total = 500.00

Engineering work and/or contract/bid preparation: 4.25

Total = \$2,670.73

Reclamation management and/or administration: 5.41

\$3,399.69

CONTINGENCY: 0.00

Total = \$0.00

TOTAL INDIRECT COST = \$19,966.22

TOTAL BOND AMOUNT (direct + indirect) = \$69,411.22

BULLDOZER WORKTask description: **Reduce highwall to 3H:1V grade (mid-point in mining)**Site: **Juniper Mountain Gravel**Permit Action: 2016-09Permit/Job#: M2003073**PROJECT IDENTIFICATION**Task #: 01AState: ColoradoAbbreviation: NoneDate: 9/28/2016County: MoffatFilename: M073-01aUser: ACYAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D8T - 8UHorsepower: 305Blade Type: UniversalAttachment: 3-shank ripperShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$52.86</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$68.35</u>	<u>100</u>
Ripper own. Cost/Hour:	<u>\$8.40</u>	<u>NA</u>
Ripper op. Cost/Hour:	<u>\$1.41</u>	<u>25</u>
Operator Cost/Hour:	<u>\$38.89</u>	<u>NA</u>

Total unit Cost/Hour: \$169.91Total Fleet Cost/Hour: **\$169.91****MATERIAL QUANTITIES**Initial Volume: 1,528Swell factor: 1.180Loose volume: **1,803 LCY**Source of estimated volume: Assume 1100'L x avg. 10'H highwall cut and fill to 3H:1VSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 50 feetUnadjusted hourly production: 1,627.0 LCY/hrMaterials consistency description: Compacted fill or embankment 0.9Average push gradient: -15 %Average site altitude: 6,200 feetMaterial weight: 4,050 lbs/LCYWeight description: Sand and clay - Compacted**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	<u>0.750</u>	<u>(AVG.)</u>
Material consistency:	<u>0.900</u>	<u>(CAT HB))</u>
Dozing method:	<u>1.000</u>	<u>(GEN.)</u>

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.329	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.568	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3383

Adjusted unit production: 550.41 LCY/hr

Adjusted fleet production: **550.41** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.309/LCY

Total job time: **3.28** Hours

Total job cost: **\$557**

SCRAPER TEAM WORKTask description: **Replace overburden on max 15 acre disturbance**Site: **Juniper Mountain Gravel**Permit Action: 2016-09Permit/Job#: M2003073**PROJECT IDENTIFICATION**Task #: 02A
Date: 9/28/2016
User: ACYState: Colorado
County: MoffatAbbreviation: None
Filename: M073-02aAgency or organization name: DRMS**HOURLY EQUIPMENT**COSTShift basis: 1 per day

Equipment Description	
-Scraper:	Cat 631G
-Dozer:	NA
Support Equipment -Load Area:	NA
-Dump Area:	NA
Road Maintenance -Motor Grader:	NA
-Water Truck:	NA

Cost Breakdown:

	Scraper Work Team		Support Equipment		Maintenance Equipment	
	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	NA	NA	NA	NA	NA
Ownership cost/hour:	\$104.50	NA	NA	NA	NA	NA
Operating cost/hour:	\$129.95	NA	NA	NA	NA	NA
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	NA	NA	NA	NA	NA
Ripper op. cost/hour:	NA	NA	NA	NA	NA	NA
Operator cost/hour:	\$34.24	NA	NA	NA	NA	NA
Unit Subtotals:	\$268.69	NA	NA	NA	NA	NA
Number of Units:	1	0	0	0	0	0
Group Subtotals:	Work:	\$268.69	Support:	\$0.00	Maint:	\$0.00

Total work team cost/hour: **\$268.69****MATERIAL QUANTITIES**Initial volume: 24,200 CCY Swell factor: 1.000
Loose volume: 24,200 LCYSource of estimated volume: Exhibit L
Source of estimated swell factor: Cat Handbook**HOURLY PRODUCTION****Scraper Bowl (volume) Basis:**

Material weight:	<u>2,500 lbs/LCY</u>	Struck Volume:	<u>24.00</u>	LCY
Material description:	<u>Clay - Dry</u>	Heaped Volume:	<u>34.00</u>	LCY
Rated Payload:	<u>81,600 pounds</u>	Average Volume:	<u>29.00</u>	LCY
Payload Capacity:	<u>32.64 LCY</u>	Adjusted Capacity:	<u>29.00</u>	LCY

Cycle Time:Scraper Loading Time: 0.80 MinutesManeuver and Spread Time: 0.70 MinutesJob Condition Correction:

Site Altitude: 6200 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	NA	(CAT HB)
Job Efficiency:	0.830	NA	(CAT HB)
Net Correction:	0.830	NA	

Travel Time:Road Condition: Soft, rutted dirt, no maintenance or water, 4" tire penetration 8.0Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	400.00	0.00	8.00	8.00	783	0.54

Haul Time: 0.54 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	400.00	0.00	8.00	8.00	1446	0.35

Return Time: 0.35 minutesTotal Scraper team cycle time: 2.39 minutesAdjusted for job conditions: 604.27 LCY/HourSelected Number of Scrapers: 1 Scraper(s)Adjusted single scraper team (unit) hourly production: 604.27 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 604.27 LCY/HourUnadjusted unit production/hour: 728.03 LCY/Hour

Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COSTFleet size: 1 Team(s)Total job time: 40.05 HoursUnit cost: \$0.445 /LCYTotal job cost: \$10,761

SCRAPER TEAM WORKTask description: **Replace topsoil over 15 acre max disturbance**Site: **Juniper Mountain Gravel**Permit Action: 2016-09Permit/Job#: M2003073**PROJECT IDENTIFICATION**Task #: 03A
Date: 9/28/2016
User: ACYState: Colorado
County: MoffatAbbreviation: None
Filename: M073-03aAgency or organization name: DRMS**HOURLY EQUIPMENT**COSTShift basis: 1 per day

Equipment Description	
-Scraper:	Cat 631G
-Dozer:	NA
Support Equipment -Load Area:	NA
-Dump Area:	NA
Road Maintenance -Motor Grader:	NA
-Water Truck:	NA

Cost Breakdown:

Scraper Work Team

Support Equipment

Maintenance Equipment

	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	NA	NA	NA	NA	NA
Ownership cost/hour:	\$104.50	NA	NA	NA	NA	NA
Operating cost/hour:	\$129.95	NA	NA	NA	NA	NA
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	NA	NA	NA	NA	NA
Ripper op. cost/hour:	NA	NA	NA	NA	NA	NA
Operator cost/hour:	\$34.24	NA	NA	NA	NA	NA
Unit Subtotals:	\$268.69	NA	NA	NA	NA	NA
Number of Units:	1	0	0	0	0	0
Group Subtotals:	Work: \$268.69		Support:	\$0.00	Maint:	\$0.00

Total work team cost/hour: **\$268.69****MATERIAL QUANTITIES**Initial volume: 12,100 CCY Swell factor: 1.000
Loose volume: 12,100 LCYSource of estimated volume: Assume 15 acres covered with 6" of soil
Source of estimated swell factor: Cat Handbook**HOURLY PRODUCTION****Scraper Bowl (volume) Basis:**

Material weight:	<u>1,600 lbs/LCY</u>	Struck Volume:	<u>24.00</u>	LCY
Material description:	<u>Top Soil</u>	Heaped Volume:	<u>34.00</u>	LCY
Rated Payload:	<u>81,600 pounds</u>	Average Volume:	<u>29.00</u>	LCY
Payload Capacity:	<u>51.00 LCY</u>	Adjusted Capacity:	<u>29.00</u>	LCY

Cycle Time:Scraper Loading Time: 0.80 MinutesManeuver and Spread Time: 0.70 MinutesJob Condition Correction:

Site Altitude: 6200 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	NA	(CAT HB)
Job Efficiency:	0.830	NA	(CAT HB)
Net Correction:	0.830	NA	

Travel Time:Road Condition: Soft, rutted dirt, no maintenance or water, 4" tire penetration 8.0Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	400.00	0.00	8.00	8.00	783	0.53

Haul Time: 0.53 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	400.00	0.00	8.00	8.00	1446	0.35

Return Time: 0.35 minutesTotal Scraper team cycle time: 2.38 minutesAdjusted for job conditions: 606.81 LCY/HourSelected Number of Scrapers: 1 Scraper(s)Adjusted single scraper team (unit) hourly production: 606.81 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 606.81 LCY/HourUnadjusted unit production/hour: 731.09 LCY/Hour

Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COSTFleet size: 1 Team(s)Total job time: 19.94 HoursUnit cost: \$0.443 /LCYTotal job cost: \$5,358

BULLDOZER WORKTask description: Grade replaced overburden and topsoil when necessarySite: Juniper Mountain GravelPermit Action: 2016-09Permit/Job#: M2003073**PROJECT IDENTIFICATION**Task #: 04AState: ColoradoAbbreviation: NoneDate: 9/28/2016County: MoffatFilename: M073-04aUser: ACYAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D8T - 8UHorsepower: 305Blade Type: UniversalAttachment: 3-shank ripperShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$52.86	NA
Operating Cost/Hour:	\$34.18	50
Ripper own. Cost/Hour:	\$8.40	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$38.89	NA

Total unit Cost/Hour: \$134.33Total Fleet Cost/Hour: **\$134.33****MATERIAL QUANTITIES**Initial Volume: 7,500Swell factor: 1.000Loose volume: **7,500** LCYSource of estimated volume: Assume 1/4 of material moved during shapingSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 50 feetUnadjusted hourly production: 1,627.0 LCY/hrMaterials consistency description: Compacted fill or embankment 0.9Average push gradient: 0 %Average site altitude: 6,200 feetMaterial weight: 2,500 lbs/LCYWeight description: Clay - Dry**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.920	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4123

Adjusted unit production: 670.81 LCY/hr

Adjusted fleet production: **670.81** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.200/LCY

Total job time: **22.36** Hours

Total job cost: **\$3,004**

REVEGETATION WORKTask description: Broadcast application of shrubs seeds during first yearSite: Juniper Mountain GravelPermit Action: 2016-09Permit/Job#: M2003073PROJECT IDENTIFICATIONTask #: 05AState: ColoradoAbbreviation: NoneDate: 9/28/2016County: MoffatFilename: M073-05aUser: ACYAgency 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
Chisel plowing {DMG}	\$88.76
Total Tilling Cost/Acre	\$88.76

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Bitterbrush, Antelope	0.50	0.15	\$10.34
Flax, Lewis Blue	1.00	6.63	\$16.55
Sagebrush, Wyoming Big	0.50	29.57	\$17.98
Saltbush, Four Wing - Dewinged	0.50	0.80	\$9.77
Totals Seed Mix	2.50	37.16	\$54.64

Application

Description	Cost /Acre
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Broadcast seeding [DMG]	\$261.80
Total Seed Application Cost/Acre	\$261.80

MULCHING and MISCELLANEOUS**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Hay, delivered {MEANS 31 25 14.16 1200}	1.00	TON	\$265.00	\$265.00
Total Mulch Materials Cost/Acre				\$265.00

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$66.02
Power mulcher (MEANS 32 91 13.16 0350)	\$97.14
Total Mulch Application Cost/Acre	\$163.16

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:	15	Cost /Acre:	\$833.36
Estimated Failure Rate:	0%	Cost /Acre*:	\$0.00
*Selected Replanting Work Items:	NONE		

Initial Job Cost:	\$12,500.40
Reseeding Job Cost:	\$0.00
Total Job Cost:	\$12,500
Job Hours:	16.00

REVEGETATION WORKTask description: Drill application of grass seed in second yearSite: Juniper Mountain GravelPermit Action: 2016-09Permit/Job#: M2003073**PROJECT IDENTIFICATION**Task #: 06AState: ColoradoAbbreviation: NoneDate: 9/28/2016County: MoffatFilename: M073-06aUser: ACYAgency or organization name: DRMS**FERTILIZING****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
10-34-0, 18-46-0, 5-10-5	200.00	pound	\$0.33	\$66.00
			Total Fertilizer Materials Cost/Acre	\$66.00

Application

Description	Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)	\$21.34
Total Fertilizer Application Cost/Acre	\$21.34

TILLING

Description	Cost /Acre
Chisel plowing {DMG}	\$88.76
Total Tilling Cost/Acre	\$88.76

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Nespar	1.80	5.83	\$12.76
Sandberg Bluegrass - VNS	0.30	6.37	\$2.61
Thickspike Wheatgrass - Critana	0.55	1.94	\$2.85
Western Wheatgrass - Arriba	2.80	7.07	\$10.33
Needle and Thread	1.13	2.98	\$53.20
Totals Seed Mix	6.58	24.20	\$81.75

Application

Description	Cost /Acre
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Drill Seeding (DRMS Survey Cost)	\$232.00
Total Seed Application Cost/Acre	\$232.00

MULCHING and MISCELLANEOUS**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$1.25	\$1.25
Total Mulch Materials Cost/Acre				\$1.25

Application

Description	Cost /Acre
Weed spray, hand, non-aquatic areas, ann. [DMG]	\$119.47
Total Mulch Application Cost/Acre	\$119.47

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: 15 Cost /Acre: \$610.57
 Estimated Failure Rate: 20% Cost /Acre*: \$402.51
 *Selected Replanting Work Items: TILLING,SEEDING,NURSERY

Initial Job Cost: **\$9,158.55**
 Reseeding Job Cost: **\$1,207.53**
 Total Job Cost: **\$10,366**
 Job Hours: **36.00**

SITE MAINTENANCE

Task description: Replace 1100 feet of four strand barb wire fence

Site: Juniper Mountain Gravel

Permit Action: 2016-09

Permit/Job#: M2003073

PROJECT IDENTIFICATION

Task #: 07A

State: Colorado

Abbreviation: None

Date: 9/28/2016

County: Moffat

Filename: M073-07a

User: ACY

Agency or organization name: DRMS

UNIT COSTS

Maintenance Item	Hours per Year	Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Replace Fence	40.00	Fencing, barbed wire, - 5 strand	1,100.00	LF	\$2.15	\$2,365.00

Job Hours: 40.00

Total Cost: \$2,365.00

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: Transport reclamation equipment to/from siteSite: Juniper Mountain GravelPermit Action: 2016-09Permit/Job#: M2003073**PROJECT IDENTIFICATION**Task #: 08AState: ColoradoAbbreviation: NoneDate: 9/28/2016County: MoffatFilename: M073-08aUser: ACYAgency or organization name: DRMS**EQUIPMENT TRANSPORT RIG COST**Shift basis: 1 per dayCost Data Source: CRG DataTruck 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:	\$16.63	\$18.37	\$22.33
Operating Cost/Hour:	\$44.38	\$46.13	\$50.07
Operator Cost/Hour:	\$27.66	\$27.66	\$27.66
Helper Cost/Hour:	\$0.00	\$25.39	\$25.39
Total Unit Cost/Hour:	\$88.67	\$117.55	\$125.45

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 D8T - 8U	53.70	\$61.26	\$125.45	1	\$186.71	\$125.45	\$250.00
Cat 631G	52.50	\$80.91	\$125.45	1	\$206.36	\$125.45	\$250.00
Power Mulcher (Reinco M90)	6.00	\$7.03	\$88.67	1	\$95.70	\$88.67	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$39.59	\$88.67	1	\$128.26	\$88.67	\$250.00
Subtotals:					\$617.03	\$428.24	\$1,000.00

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.	\$37.87	1	\$37.87	\$37.87
Subtotals:			\$37.87	\$37.87

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>CRAIG CO</u>	
Total one-way travel distance:	<u>30.00</u>	miles
Average Travel Speed:	<u>50.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$4,488.38</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$45.44</u>
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.60	0.60
Return Time (Hours):	0.60	0.60
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	2.20	1.20

JOB TIME AND COST

Total job time: 4.40 Hours

Total job cost: \$4,534



COLORADO

Division of Reclamation,
Mining and Safety

Department of Natural Resources

1313 Sherman St. Room 215
Denver, CO 80203

May 31, 2016

Mike T. and Mardi F. Anson
Moffat Limestone Company
P.O. Box 363
Craig, CO 81626

Juniper Mountain Gravel, Permit M-2003-073, Annual Fee Invoice and Report Request

PLEASE READ CAREFULLY – ACTION REQUIRED

Please attach your COMPLETED written Annual Report and Annual Report Map to this form

Under the terms of your Reclamation Permit and Colorado Statutes, you must submit an Annual Fee and Annual Report (including a map). You must pay the Annual Fee and submit an Annual Report each year until reclamation responsibility release is granted. The Annual Fee is not a renewal fee. The Fee and Report are for LAST YEAR'S mining and reclamation season, and MUST be paid even if your operation was inactive.

The Annual Report and Fee requirement will be considered submitted when we have received the following components:

- 1. APPROPRIATE ANNUAL FEE**
- 2. COMPLETED ANNUAL REPORT**
- 3. ASSOCIATED MAP as required by rule**

If you have requested reclamation responsibility release from the Division of Reclamation, Mining and Safety ("Division") but your permit is not released by the anniversary date listed below, the Annual Fee MUST be paid. If the permit is released before the anniversary date, then by Statute, it is not necessary to pay an Annual Fee or submit an Annual Report for that year.

Division records indicate the \$791.00 fee is due for the following:

Permit:	M-2003-073
Operation Name:	Juniper Mountain Gravel
Anniversary Date:	July 21, 2016
Total Fee Due:	\$791.00 (Due on or before your Anniversary Date)

Return the enclosed Annual Report FORM, a MAP, and a CHECK or MONEY ORDER made payable to: Division of Reclamation, Mining and Safety, 1313 Sherman St., Room 215, Denver, CO 80203. If your records indicate these documents and fees have already been submitted, please notify the Division.



If you have additional comments and/or information that should be provided to the Division, please provide it below or attach it to this form along with your written report and map. Annual Report instructions are enclosed. If you have any questions, please feel free to contact Scottie Tate ((303) 866-3567 ext 8166) or Michelle Ramirez ((303) 866-3567 ext 8114). Thank you for your cooperation in this matter.

IF THE ANNUAL FEE SUBMITTALS ARE NOT RECEIVED ON OR BEFORE YOUR ANNIVERSARY DATE, THE ENFORCEMENT PROCESS WILL AUTOMATICALLY BE INITIATED. ENFORCEMENT ACTIONS MAY RESULT IN CIVIL PENALTIES AND/OR REVOCATION OF YOUR PERMIT.

112c Annual Report

(DRMS Office Use Only)	Permit Number:	M-2003-073
	Permittee Name:	Moffat Limestone Company
	Operation Name:	Juniper Mountain Gravel
	County:	Moffat
	Anniversary Date:	July 21, 2016
	Current Bond Amt:	\$43,721.00
	Annual Fee Due:	\$791.00
	Permit Acreage:	60.00
	DRMS Specialist	ACY

According to C.R.S. 34-32.5-116 or 34-32-116, each year, on the anniversary date of the permit, an operator shall submit the Annual Fee, an Annual Report and Map showing the extent of current disturbances to affected land, required monitoring information, reclamation accomplished to date and during the preceding year, any new disturbance that is anticipated to occur during the upcoming year, any reclamation that will be performed during the upcoming year, the dates for the beginning of active operations, and the date active operations ceased for the year.

Information contained in this report will be reviewed by the Division upon receipt and prior to the next compliance inspection of the site. If, while completing this report, you learn that your site is not in compliance with the rules and the act, it is advisable that the issues be rectified promptly to avoid possible enforcement action.

1. Is the site identification sign posted in accordance with Rule 3.1.12(1)? YES NO
2. Is the affected area boundary clearly marked in accordance with Rule 3.1.12(2)? YES NO
3. Is the mine site in final reclamation (all material extraction and stockpile removal is complete)? YES NO
If "YES," please note time limits related to completion of reclamation, Rule 3.1.3.
4. What was the date of last excavation, processing or hauling activity at the mine? _____
5. Does the mine operate more than 180 days per year? YES NO
If "NO", please review Rule 1.13 to assure that your mine is in compliance.
6. Has this mine been granted: YES NO
 a) approval of TEMPORARY CESSATION Status? YES NO
 b) approval for INTERMITTENT OPERATION? YES NO
7. Number of acres currently affected (mining + incomplete and or unreleased reclamation): _____
8. Number of acres that were newly affected during the current report year: _____
9. Number of acres that were reclaimed during the current report year: _____
10. Estimated new acreage to be affected in the next report year: _____
11. Estimated acres to be reclaimed in the next report year: _____

12. **Total acres** in various stages of reclamation, since permitted mining activities began:

Total acres backfilled:		Total acres seeded w/ approved mix:		Total acres w/topsoil replaced:		Total acres mulched w/ approved mulch:	
Total acres graded:		Total acres fertilized w/ apvd fertilizer:		Topsoil replacement depth (in.):		Mulch application rate (tons/ac):	
Seed application method:		Fertilizer application method:				Mulch application method:	

13. Is weed control being conducted in accordance with an approved Weed Control Plan? YES NO N/A
If "YES", indicate the weed species, control area, control type, application rate and treatment date on the report map.
14. Is adequate topsoil reserved for reclamation, based on your approved permit? YES NO N/A
If "NO", please explain:
15. Is the reserved topsoil vegetated/stabilized in accordance with Rule 3.1.9(1)? YES NO N/A
If "NO" please explain:
16. If mining has exposed groundwater, is the site in compliance with the approved mining plan and Office of the State Engineer (Well Permit, S.W.S.P., and/or Permanent Augmentation Plan)? YES NO N/A
17. Are all hazardous materials stored within approved spill containment structures? YES NO N/A
18. Is your financial warranty value sufficient to cover the cost to complete reclamation? YES NO N/A
19. Is your basis for legal right to enter still valid? YES NO
20. Does your permit require you to submit monitoring information annually? YES NO N/A
If "Yes", please attach the required monitoring results to this Annual Report.
21. As required by Colorado Mined Land Reclamation Act and/or Colorado Land Reclamation Act for the Extraction of Construction Materials (C.R.S. 34-32-116 or 34-32.5-116), attach a map to this report that accurately depicts the permit boundary, current affected area boundary and location of the acreages specified in items 7- 12 and 14. UPDATED

MAP ATTACHED: _____

Division records indicate the following permittee contact information. If this information is not current, please type or print **current** contact information:

Permittee Contact:	Mike T. and Mardi F. Anson	
Permittee Company:	Moffat Limestone Company	
Address:	P.O. Box 363 Craig, CO 81626	
Phone Number:	(970) 629-2057	
Fax Number:	(970) 629-3000	
Email Address:	Moffatlimestone@yahoo.com	

I, the undersigned, hereby state that the information provided in this report is true and accurate, and that site operations are being conducted in accordance with the Division approved mining and reclamation plans.

Signature of Permittee, Corporate Officer, Owner, or Documented Designee

 Date



COLORADO DIVISION OF RECLAMATION, MINING AND SAFETY

1313 Sherman Street, Room 215, Denver, Colorado 80203 Phone (303) 866-3567

TEMPORARY CESSATION NOTICE

(mining activities temporarily cease for more than a one-year period)

Today's date: _____

Permit number: M- _____ Site name: _____

County: _____ TC number: _____ (DRMS use only)

Permittee making request: _____

Operator (if other than permittee): _____

Date the initial five-year period of Temporary Cessation begins: _____

Reason mining activities (materials extraction, processing, hauling) have ceased:

Description of plan to resume operations:

Description of plan to meet performance standards of Rule 3.1 during temporary cessation (reclamation, weed control, monitoring, signs, markers, etc.):

Number of affected acres: _____

Amount of financial warranty (bond) on deposit with the state: \$ _____

Required fees for Temporary Cessation by permit type (please mark the correct fee and submit it with this request for Temporary Cessation):

<u>Permit type</u>	<u>Required TR fee</u>	<u>Submitted (mark only one)</u>
Construction Materials	\$144	<input type="checkbox"/>
Hard Rock/ Metal Mining	\$115	<input type="checkbox"/>

The above-referenced permit has entered Temporary Cessation. This site has reserves remaining to be mined.

Operator's signature: _____

Please note:

- 1. While in Temporary Cessation, the operator must continue to comply with the Rules and Act, including maintaining the site, and must continue to file an annual report and annual fee.*