




**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.

<b>MINE NAME:</b> Larson Pit	<b>MINE/PROSPECTING ID#:</b> M-2007-012	<b>MINERAL:</b> Gravel, sand and clay	<b>COUNTY:</b> Phillips
<b>INSPECTION TYPE:</b> Monitoring	<b>INSPECTOR(S):</b> Brock Bowles	<b>INSP. DATE:</b> July 15, 2020	<b>INSP. TIME:</b> 13:00
<b>OPERATOR:</b> Gregory Larson	<b>OPERATOR REPRESENTATIVE:</b> Greg Larson	<b>TYPE OF OPERATION:</b> 112c - Construction Regular Operation	
<b>REASON FOR INSPECTION:</b> Normal I&E Program	<b>BOND CALCULATION TYPE:</b>	<b>BOND AMOUNT:</b> \$28,889.00	
<b>DATE OF COMPLAINT:</b> NA	<b>POST INSP. CONTACTS:</b> None	<b>JOINT INSP. AGENCY:</b> None	
<b>WEATHER:</b> Clear	<b>INSPECTOR'S SIGNATURE:</b> 	<b>SIGNATURE DATE:</b> August 3, 2020	

**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.**

**GENERAL INSPECTION TOPICS**

This list identifies the environmental and permit parameters inspected

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

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

## PROBLEMS/POSSIBLE VIOLATIONS

**INSPECTION TOPIC:** Gen. Compliance With Mine Plan

**PROBLEM:** The current mine plan needs to be updated and clarified pursuant to C.R.S. 34-32.5-112 (1)(c)(VI). The operator must provide sufficient information to describe or identify how the operator intends to conduct the operation.

**CORRECTIVE ACTIONS:** The operator shall post additional bond of \$1,867 or submit a Technical Revision, with the required \$216 revision fee, to update and clarify the current approved mine plan to reflect existing and proposed activities by the corrective action date.

**CORRECTIVE ACTION DUE DATE:** September 28, 2020

**INSPECTION TOPIC:** Revegetation

**PROBLEM/POSSIBLE VIOLATION:** Problem: There are state-listed noxious weeds present on site and there is not a weed control plan in the permit as required by Section 3.1.10 (6) of the Rules.

**CORRECTIVE ACTIONS:** The operator shall develop a weed control and management plan in accordance with Section 3.1.10 (6) of the Rule. This plan should be developed in consultation with the county extension agency, or weed control district office and should include specific control measures to be applied, a schedule for when control measures will be applied and a post-treatment monitoring plan. This weed control plan shall be submitted to the Division as a Technical Revision to the approved plan with the appropriate Technical Revision fee of \$216.00 by the corrective action date.

**CORRECTIVE ACTION DUE DATE:** September 28, 2020

## OBSERVATIONS

This inspection was conducted by Brock Bowles of the Division of Reclamation, Mining and Safety (Division). Greg Larson (Operator) was present for the inspection. The Larson Pit is located about 7 miles south of Haxtun, Colorado. The site is an active 112c operation with 68 acres permitted and the post-mining land use is rangeland. At the time of the inspection it was warm, partly cloudy and the ground was dry.

No mining activity was being conducted and no equipment was on site. The mine identification sign was in place and was legible. The permit boundary was marked with a fence on all sides. The gate was closed upon arrival and cattle were grazing in the permit area.

No standing water was seen in the pit or in the creek bottom. No obstruction were seen in the creek bottom that would interfere with water flow, if water were to begin flowing.

There are musk thistle plants in Area 1 that need to be treated. Musk thistle is a List B Colorado noxious weed and needs to be treated. The operator has submitted photos documenting that the musk thistles have been mowed since this inspection was conducted. The current mining permit does not have a weed control plan. The operator needs to submit a weed control plan through a technical revision for inclusion into the permit as required by Section 3.1.10 (6) of the Rules. A single technical revision can be submitted for both of the issues listed in this report.

The current reclamation plan is divided into 3 distinct areas. At this time, the Division holds a bond for \$28,889 to cover the reclamation for Area 2. Areas 1 and 3 are not currently bonded. It was noted in the March 2019

inspection report that mining had taken place in Area 1 and the bond had not been adjusted to cover the additional disturbance. An estimate was calculated for \$31,911 to cover the reclamation for the entire 33 acres of Area 1. When Mr. Larson was notified of the discrepancy he ceased mining in the area, backfilled and graded, and reseeded the area. The additional bond was not posted by the operator.

The size of the disturbance created in Area 1 is about 3.5 acres. The Division recognizes that the operator ceased mining Area 1, backfilled and graded the area and seeded it: however, this area was disturbed by mining activities and is not adequately bonded as required by Rule 4.2.1. Additional bond needs to be posted for \$1,867 to cover the cost of revegetation for the 3.5 acres or the operator needs to submit a technical revision, with the required \$216 revision fee, to update the current mine plan to reduce the overall liability of the mine's reclamation plan. The posting of the additional bond for the disturbance in Area 1 only covers the cost of revegetation for the 3.5 acres and should not be interpreted as permission to create additional disturbance in Area 1.

## PHOTOGRAPHS



Mine entrance sign facing County Road 7



Mined area in Area 1 looking south





Mined area in Area 2 looking north



Area 3 looking east, no mining activity noted





Photo of area where musk thistle plants were mowed. Photo supplied by operator.

**Inspection Contact Address**

Gregory Larson  
14977 Co. Rd. 97  
Haxtun, CO 80731

CC: Michael Cunningham, DRMS

## COST SUMMARY WORK

Task description: \_\_\_\_\_

Site: Larson Pit

Permit Action: 2020 Update

Permit/Job#: M2007012

### PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 7/23/2020

County: Phillips

Filename: M012-000

User: BFB

Agency or organization name: DRMS

### TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
007	Plant Reclamation for disturbance in Area 1	REVEGE	1	3.50	\$1,465
<b><u>SUBTOTALS:</u></b>				<b>3.5</b>	<b>\$1,465</b>

### INDIRECT COSTS

#### OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$30

Performance bond: 1.05

Total = \$15

Job superintendent: 1.75

Total = \$122

Profit: 10.00

Total = \$146

TOTAL O & P = \$313

CONTRACT AMOUNT (direct + O & P) = \$1,778

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$0

Total = \$0

Engineering work and/or contract/bid preparation: 0.00

Total = \$0

Reclamation management and/or administration: 5.00

\$89

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$402

**TOTAL BOND AMOUNT (direct + indirect) = \$1,867**

**REVEGETATION WORK**Task description: **Plant Reclamation for disturbance in Area 1**Site: **Larson Pit**Permit Action: 2020 UpdatePermit/Job#: M2007012**PROJECT IDENTIFICATION**Task #: 007State: ColoradoAbbreviation: NoneDate: 7/23/2020County: PhillipsFilename: M012-007User: BFBAgency or organization name: DRMS**FERTILIZING****Materials**

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

**Application**

Description	Cost /Acre
	\$
<b>Total Fertilizer Application Cost/Acre</b>	<b>\$0.00</b>

**TILLING**

Description	Cost /Acre
	\$
<b>Total Tilling Cost/Acre</b>	<b>\$0.00</b>

**SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Hachita	0.50	8.16	\$7.99
Prairie Clover, Purple - Kaneb	0.50	3.42	\$28.26
Little Bluestem - Pastura	2.10	12.53	\$28.31
Sideoats Grama - El Reno	2.70	8.86	\$22.61
Western Wheatgrass - Arriba	2.40	6.06	\$15.60
<b>Totals Seed Mix</b>	<b>8.20</b>	<b>39.04</b>	<b>\$102.78</b>

**Application**



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

**MULCHING and MISCELLANEOUS****Materials**

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

**Application**

Description	Cost /Acre
	\$
<b>Total Mulch Application Cost/Acre</b>	<b>\$0.00</b>

**NURSERY STOCK PLANTING**

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

**JOB TIME AND COST**

No. of Acres:	3.5	Cost /Acre:	\$334.78
Estimated Failure Rate:	25%	Cost /Acre*:	\$334.78
*Selected Replanting Work Items:	SEEDING		

Initial Job Cost:	<b>\$1,171.73</b>
Reseeding Job Cost:	<b>\$292.93</b>
Total Job Cost:	<b>\$1,465</b>
Job Hours:	<b>3.50</b>