




COLORADO DIVISION OF RECLAMATION, MINING AND SAFETY
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 Quarry	MINE/PROSPECTING ID#: M-1982-141	MINERAL: Limestone (general)	COUNTY: Moffat
INSPECTION TYPE: Monitoring	INSPECTOR(S): Amy C. Yeldell	INSP. DATE: November 24, 2015	INSP. TIME: 10:00
OPERATOR: Moffat Limestone Company	OPERATOR REPRESENTATIVE: Mike and Mardi Anson	TYPE OF OPERATION: 112c - Construction Regular Operation	
REASON FOR INSPECTION: Normal I&E Program	BOND CALCULATION TYPE: Complete Bond	BOND AMOUNT: \$154,405.00	
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None	
WEATHER: Clear	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: December 15, 2015	

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: Gen. Compliance With Mine Plan

PROBLEM/POSSIBLE VIOLATION: 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.

The current reclamation plan needs to be updated and clarified pursuant to C.R.S. 34-32.5-116 (1). The operator must follow approved reclamation plan or provide sufficient information to describe or identify how the operator intends to conduct reclamation.

CORRECTIVE ACTIONS: The operator shall submit a Technical Revision, with the required \$216 revision fee. Update and clarify the current approved mine and reclamation plan to reflect existing and proposed activities by the corrective action date.

CORRECTIVE ACTION DUE DATE: 3/10/16

OBSERVATIONS

This inspection was conducted as part of the Colorado Division of Reclamation, Mining and Safety normal monitoring program. The Juniper Quarry is a 112c permitted site that includes a total of 88.7 permitted acres. This site is located approximately 4 miles southeast of Maybell, Colorado and is accessed from Moffat County Road 57. Mike and Mardi Anson represented the Moffat Limestone Company and accompanied Amy Yeldell of the Division on the inspection.

This site is comprised of two non-contiguous parcels that make up the total 88.7 acre permit. In 1992 the permit was converted (CN-1) from a 110c to a 112c. This CN-1 affected what is referred to the "Main Pit" and increased the pit size to a total of 63 acres. In 2005 the permit was amended (AM-1) to add what is referred to as the "South Pit", which added 25.7 acres. Both sites are located on BLM land and require access through the Anson's private land to access the mine.

The mine identification sign and affected area boundary markers are in place per Rule 3.1.12. One main sign is posted along the access road from the entrance of County Road 57 outside the permit boundary. The permit boundary is clearly delineated by t-post cover with white and orange PVC sticks that are easily visible at a distance.

The permit is approved for blasting and all blasting is done by a licensed contractor.

Most of the trash and metal debris previously cited in inspection report has been cleaned up by the new company owners. Approximately 40 cu. yds. of loose debris still remains throughout the site, in addition to a few trailers.

Some noxious weeds were observed through the site and more frequently along roadsides. The operator is advised to more aggressively manage noxious weeds especially those on federal lands to keep the thistle populations down.

All slopes in unconsolidated material are no steeper than 2:1 and stable.

Main Pit:

The site is currently operational. One portable crusher is owned by Moffat Limestone Company and remains on site. Periodically they also rent extra equipment on an as needed basis. Generally only a crusher and screen are used to process materials. This area produces limestone products from road base to large dimensional stone. As well as finer products for coal plants. Unusable fines are stockpiled for backfill and reclamation.

In the southwest corner of the main pit various piles of scrap material and two trailers still remain and will need to be removed prior to reclamation. Near the fuel tank a wire cage contains all trash produced at the site.

A 10,100 gallon fuel tank in earthen secondary containment was observed. It was recommended to the operators to use a lined containment to better protect against a spill. They were reminded that a proper containment is 110% of the largest tank volume stored in that containment. No other hazardous materials

were observed onsite.

Reclamation has been completed on southeast end of pit. Reclamation was successful and is the area is ready for release if operator no longer needs the land to support the mining operation. Discussions ensued that in the future the operator may need egress through the reclaimed areas and will likely retain the reclaimed ground for the time being.

In CN-1 the reclamation plan states that "whenever disturbed and non-reclaimed mined areas exceed ten acres, a portion of the disturbed area will be reclaimed. This will be done in a manner whereby the total non-reclaimed land will never exceed ten acres." Staff estimates that approximately 20 acres is actively being mined. Approximately 40 acres has been affected to date of which nearly one third is successfully reclaimed.

Mining is moving north towards the permit boundary and will then shift to the west side of the road and move south. It was indicated that according to test holes a large reserve of limestone still exists to the west of the road and that previous mining operations only took the top easily accessible layers. Significant amounts of overburden from the south area was placed in the north area and has to be removed for mining. For that reason the north high wall is in a hole since overburden from the southern mining was placed in the currently active area.

South Pit:

No crushing operations occur in this area, mostly just screening operations. Equipment is transported to the south pit on an as needed basis and stored permanently at the main pit. No fuel or permanent structures are located within the south pit.

One trailer and a few piles of misc. metal debris still remain. Current owners are working to clean up trash.

It appears that the majority of the 25.7 acre area has been affected. The highwall is 60'-40' high and is approximately 300' wide. The rest of the area is mostly flat sloping towards the highwall. Several stockpiles of material are located within the flat area.

Topsoil and overburden berms surround the majority of the disturbed area. No issues with erosion due to sloping were observed.

The mining plan for this area suggested progressive reclamation where approximately 10 acres would be active at a time and move forward in 4 acre swaths. At this time there is not a lot of room to decrease the disturbance footprint. The operator will need to submit a Technical Revision (TR) to the mining plan to reflect actual disturbances.

Additional Notes:

The 2015 annual report submitted was missing the map. It was referenced as included but nothing was attached. The Division would like to request that the operator resubmit the map for the 2015 annual report at their earliest convenience.

Recently the Anson's bought the Moffat Limestone Company. During the inspection DRMS staff reviewed general practices of DRMS and overviewed agency relationships and expectations with operators. Situations

regarding various permit revision types were explained. Mr. and Mrs. Anson were made aware of several DRMS resources available to them as well.

A pond used for dust suppression in the summers was discussed. The pond would be fed from a well on private land and trucked to the pit. This would require a technical revision (TR). Also a tent/ building may be constructed to house equipment in the winter. If the structure has a foundation associated with it, it is considered permanent and would require a TR. If it may be assembled and requires no demolishing then it doesn't need to be bonded for and would not require a TR. Items requiring a technical revision (TR) to the mining plan will also require BLM approval. It was recommended that the operator seek BLM approval first and submit with the TR a BLM approval letter and any other supporting documentation.

It is strongly advised that the operator review both the mining and reclamation plan to become familiar with their legal obligation to DRMS. If the operator wishes to deviate from any part these approved plans they must first submit a technical revision for minor changes or an amendment for major changes. Several changes can be made under one revision. DRMS will confer with the BLM prior to any approvals.

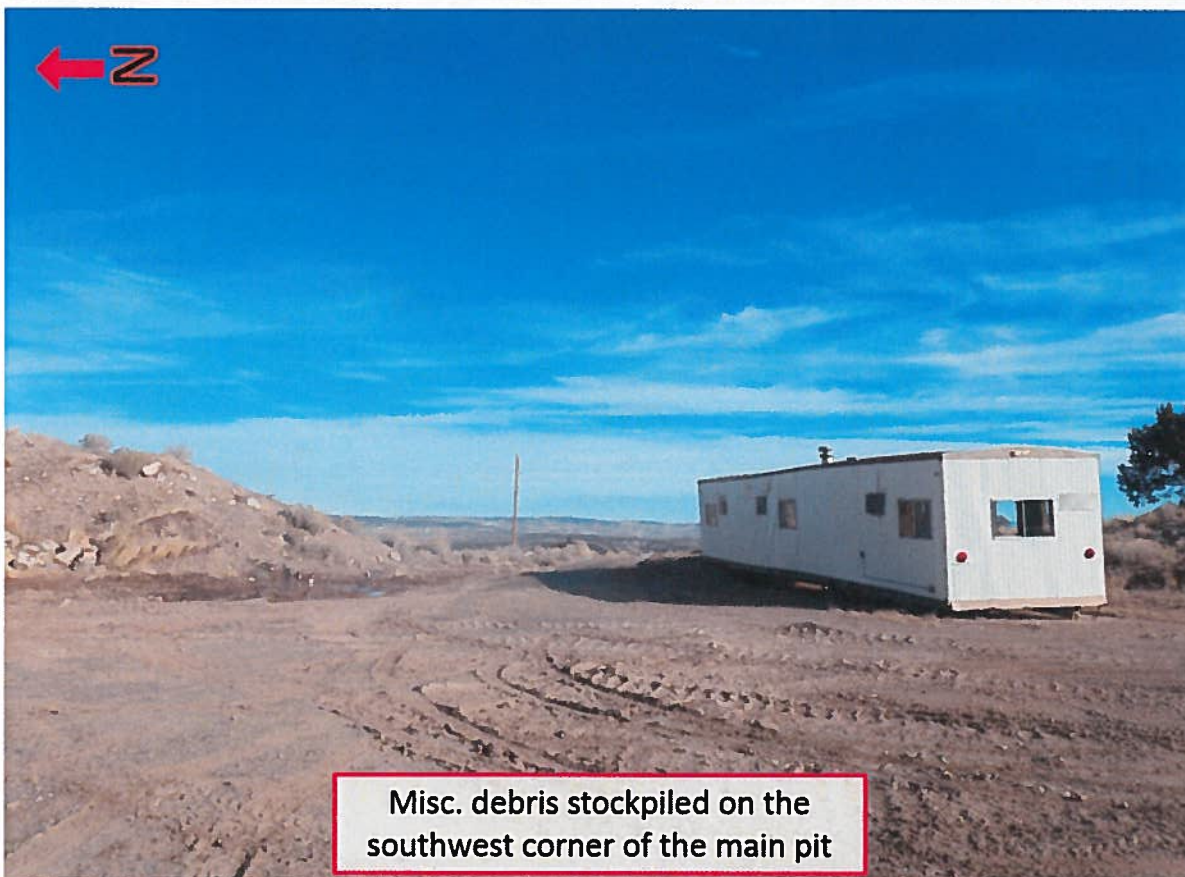
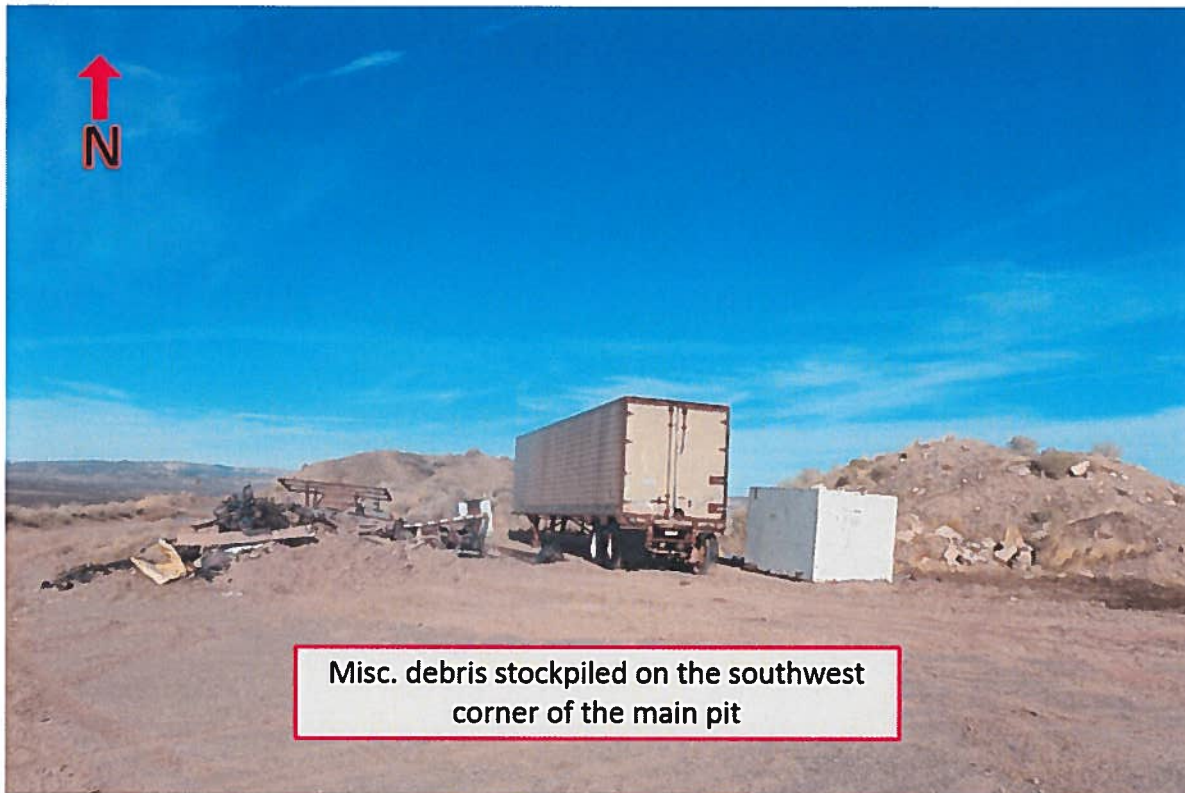
General compliance with mine plan is cited as a problem. There are several instances where current mining practices do not follow the approved mining and reclamation plans. Specifically disturbed acreage verses reclaimed acreage do not comply with the approved plans. Please revise the mining and reclamation plans to reflect the conditions observed during the inspection, updated mining and reclamation maps shall also be submitted. This update shall be done in the form of a technical revision by the corrective action date.

Currently the Division holds a Financial Warranty in the amount of \$154,405.00 for this site. The bond was last updated in fall of 2011. In an effort to ensure the Financial Warranty adequately reflects the actual current cost of fulfilling the requirements of the approved reclamation plan the Division will be updating the reclamation cost estimate. This updated will include any changes resulting from the technical revision to the mining and reclamation plans as required above. A copy of the staff calculations will be sent under separate cover.

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

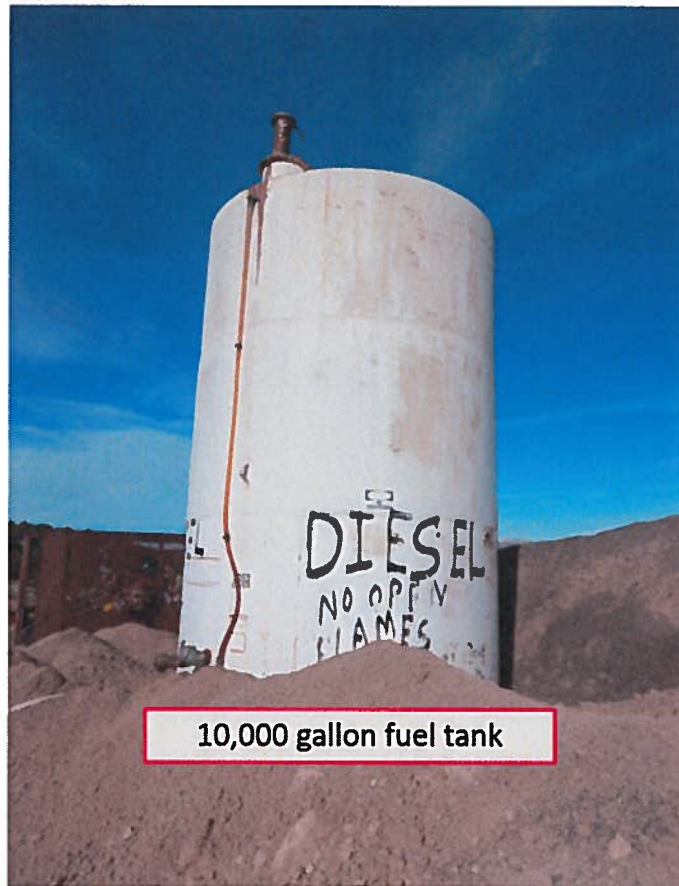
PHOTOGRAPHS











10,000 gallon fuel tank



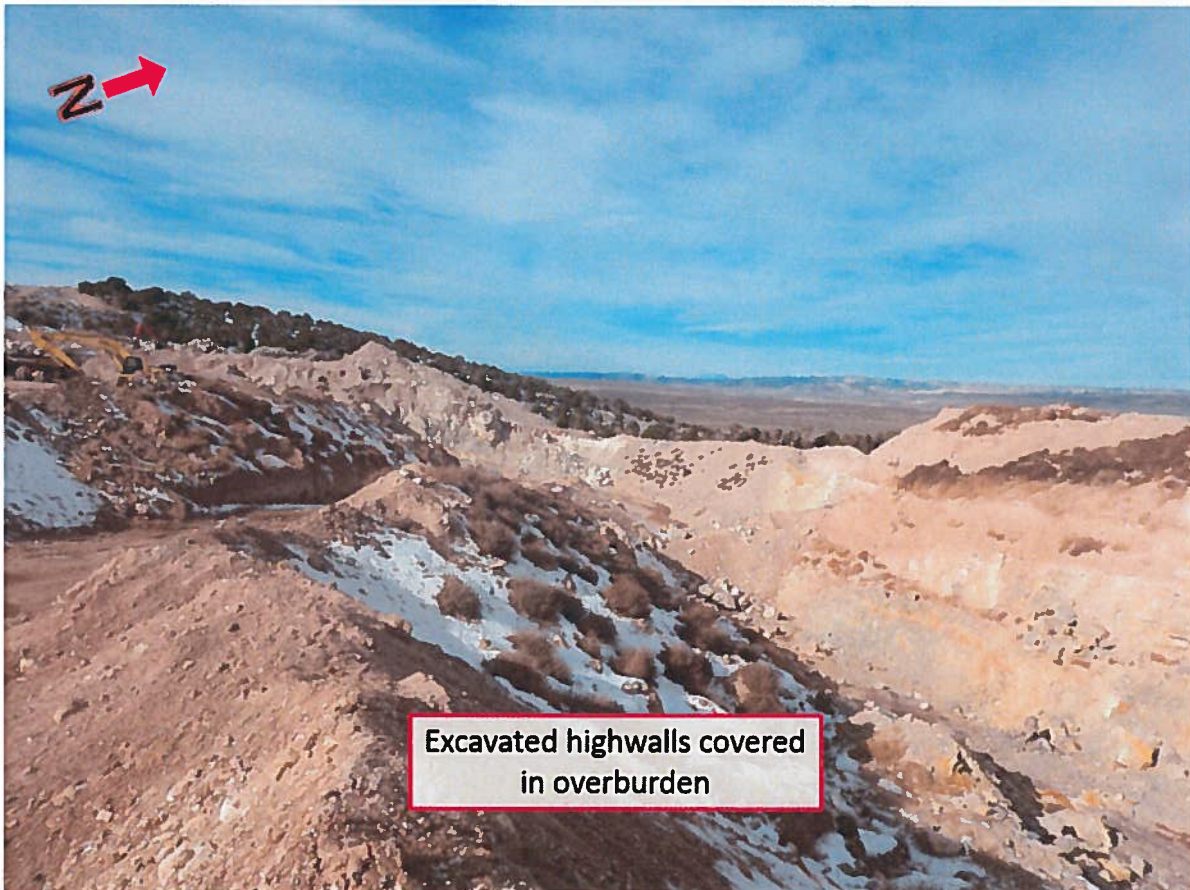
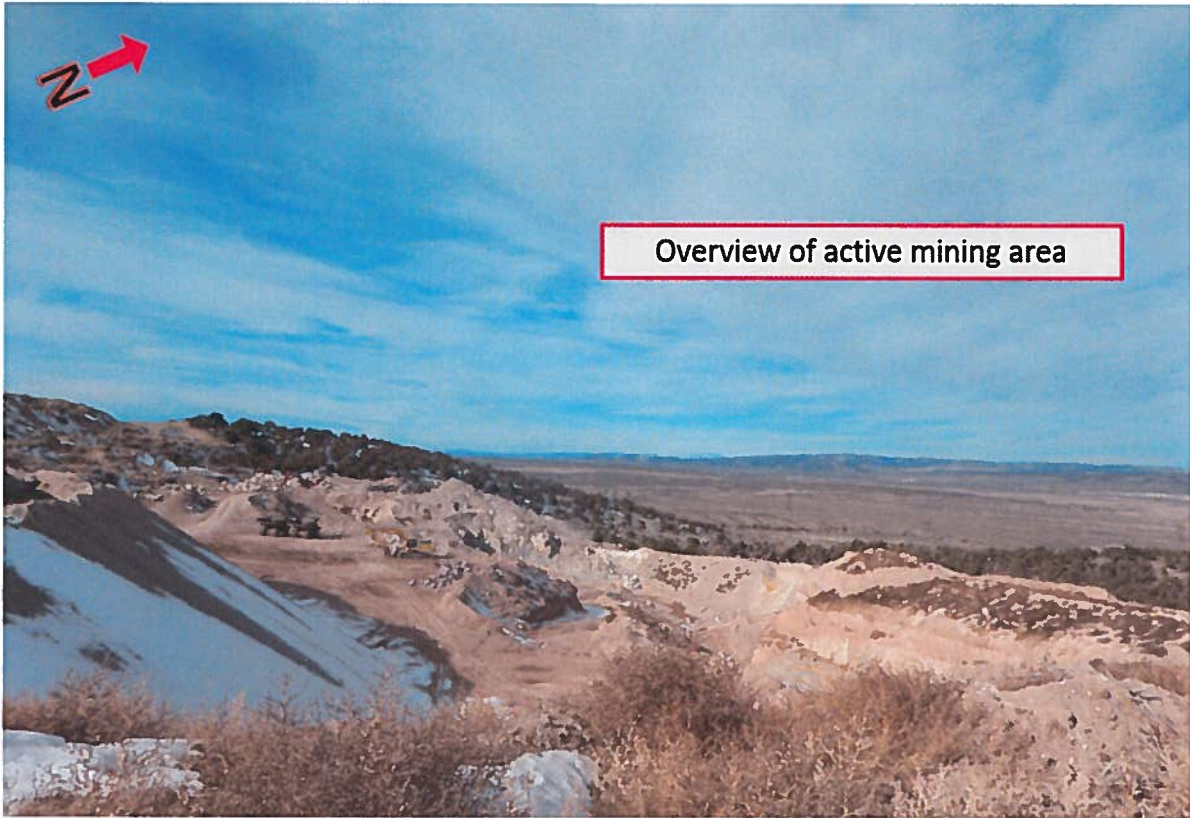
Material storage area at the main pit



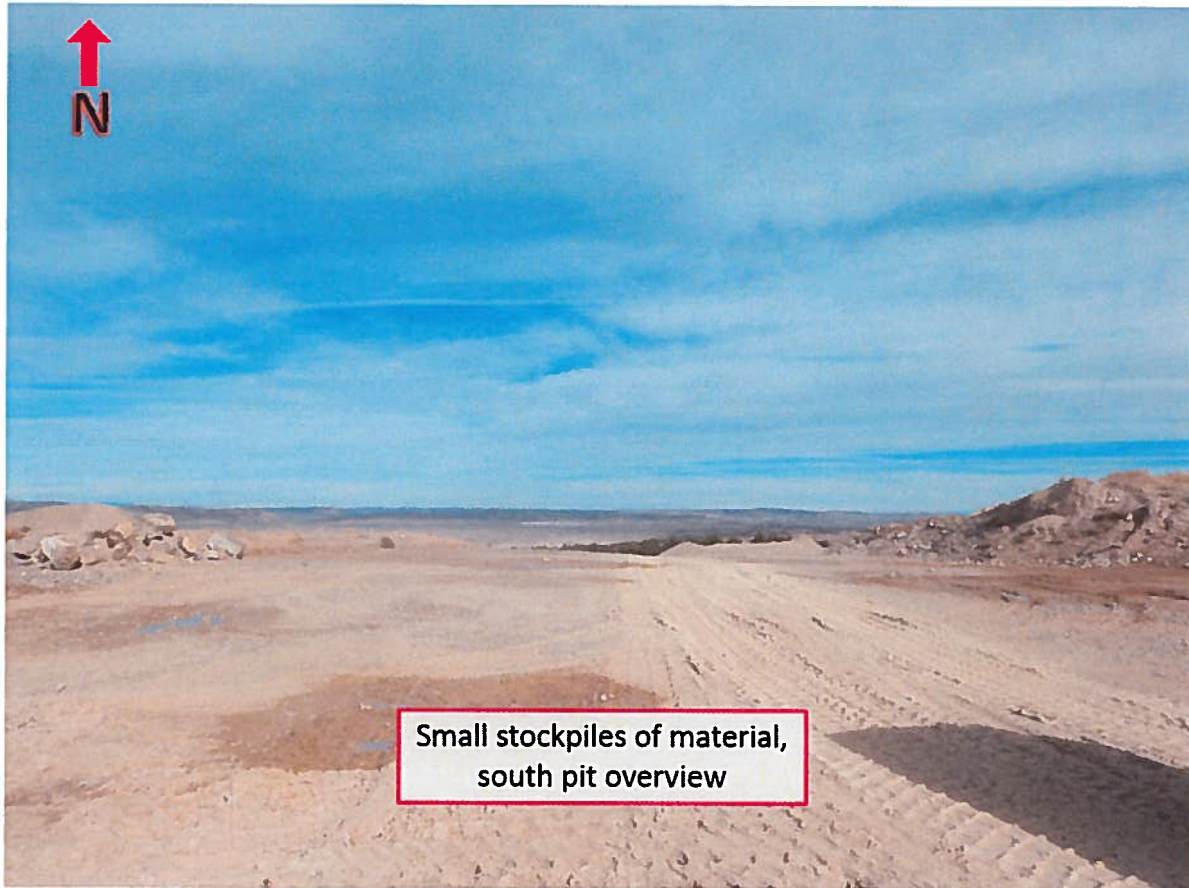
Processing plant



Partially reclaimed south
east corner of the main pit.







GENERAL INSPECTION TOPICS

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

(AR) RECORDS----- <u>Y</u>	(FN) FINANCIAL WARRANTY----- <u>Y</u>	(RD) ROADS----- <u>Y</u>
(HB) HYDROLOGIC BALANCE----- <u>Y</u>	(BG) BACKFILL & GRADING----- <u>Y</u>	(EX) EXPLOSIVES----- <u>Y</u>
(PW) PROCESSING WASTE/TAILING---- <u>N</u>	(SF) PROCESSING FACILITIES----- <u>NA</u>	(TS) TOPSOIL----- <u>Y</u>
(MP) GENL MINE PLAN COMPLIANCE- <u>PB</u>	(FW) FISH & WILDLIFE----- <u>Y</u>	(RV) REVEGETATION---- <u>Y</u>
(SM) SIGNS AND MARKERS----- <u>Y</u>	(SW) STORM WATER MGT PLAN---- <u>Y</u>	(CI) COMPLETE INSP---- <u>Y</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>NA</u>	(OD) OFF-SITE DAMAGE----- <u>NA</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

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Enclosure

EC:
Russ Means, Senior EPS / Field Office Supervisor, Grand Junction DRMS
Jennifer Maiolo, Little Snake Field Office BLM COC-48936