


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: Phillips Ranch Property Gravel Pit #2	MINE/PROSPECTING ID#: M-2000-046	MINERAL: Sand and gravel	COUNTY: Fremont
INSPECTION TYPE: Monitoring	INSPECTOR(S): Timothy A. Cazier	INSP. DATE: August 28, 2019	INSP. TIME: 09:25
OPERATOR: Pioneer Sand Company, Inc.	OPERATOR REPRESENTATIVE: Jason Ulmer	TYPE OF OPERATION: 112c - Construction Regular Operation	
REASON FOR INSPECTION: Normal I&E Program	BOND CALCULATION TYPE: Partial Bond	BOND AMOUNT: \$117,123.00	
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: Colo. Land Board	
WEATHER: Clear	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: December 11, 2019	

GENERAL INSPECTION TOPICS

This list identifies the environmental and permit parameters inspected and gives a categorical evaluation of each. No problems or possible violations were noted during the inspection. The mine operation was found to be in full compliance with Mineral Rules and Regulations of the Colorado Mined Land Reclamation Board for the Extraction of Construction Materials and/or for Hard Rock, Metal and Designated Mining Operations. Any person engaged in any mining operation shall notify the office of any failure or imminent failure, as soon as reasonably practicable after such person has knowledge of such condition or of any impoundment, embankment, or slope that poses a reasonable potential for danger to any persons or property or to the environment; or any environmental protection facility designed to contain or control chemicals or waste which are acid or toxic-forming, as identified in the permit.

(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>NA</u>
(PW) PROCESSING WASTE/TAILING---- <u>Y</u>	(SF) PROCESSING FACILITIES----- <u>Y</u>	(TS) TOPSOIL----- <u>Y</u>
(MP) GENL MINE PLAN COMPLIANCE- <u>Y</u>	(FW) FISH & WILDLIFE----- <u>Y</u>	(RV) REVEGETATION---- <u>Y</u>
(SM) SIGNS AND MARKERS----- <u>Y</u>	(SP) STORM WATER MGT PLAN---- <u>Y</u>	(RS) RECL PLAN/COMP-- <u>Y</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>Y</u>	(SC) EROSION/SEDIMENTATION--- <u>Y</u>	(ST) STIPULATIONS----- <u>Y</u>
(AT) ACID OR TOXIC MATERIALS----- <u>NA</u>	(OD) OFF-SITE DAMAGE----- <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

OBSERVATIONS

This inspection was conducted as part of the regular monitoring program. The Operator, Pioneer Sand Company, Inc was represented during the inspection by Jason Ulmer. Mr. Steve Freese was also present representing the State Land Board (SLB). The Phillips Ranch Property Gravel Pit #2 is located approximately 4 miles southeast of Florence, CO. The access road is about 1 mile north of Fremont CR 108 on Fremont CR 19 (or Siloam Road). The pit was active at the time of the inspection.

Availability of Records: Annual fees are paid through May 2019. The previous inspection was on June 9, 2015. The approved post-mine land use is rangeland (revision CN-01, which incorporated M-1997-097). There are no open infractions. Both the surface and minerals are privately owned.

Backfilling and Grading: Sufficient backfill material appeared to be available.

Financial Warranty: The \$117,123 bond held by the Division was calculated in 2015 as part of the 112 conversion application and is adequate for the observed mine disturbance. The 2019 annual report indicates 44 acres have been affected. The maximum allowed disturbance is 40 acres, consisting of 20 acres of active mining and 20 acres of completed mining under reclamation. Google Earth 2018 imagery indicates 34.2 acres of disturbance. Should the number of active or completed mining exceed 20 acres, the financial warranty should be revisited and a Technical Revision submitted.

Fish and Wildlife: No impact to wildlife was observed.

Hydrologic Balance: No standing water was observed in the pit and no exposed groundwater was observed.

Gen. Compliance with Mine Plan: The operation appeared to be in compliance with the approved mine plan. Google Earth was used to measure the disturbed area, which was estimated to be approximately 34.2 acres, based on 2018 imagery (see attached **Post Inspection Map**). Highwalls were estimated to less than 15 feet in height and appeared stable (see **Photo 1**) or had been flattened to ear 3H:1V (see **Photo 2**). Mr. Ulmer indicated the plan is to continue mining north to Low Back Creek (see **Photo 3**), then south to the permit boundary.

Off-site Damage: The operation appeared to be confined to the permit boundary, based on Google Earth review and site observations.

Processing Waste: The only processing waste observed were fines.

Roads: Haul and access roads did not appear to be a source of sediment that could be tracked offsite. Mr. Ulmer stated they use water for dust control when needed.

Reclamation Success: The southwest disturbed area (see **Photo 4**) was regraded and ready for topsoil placement. Other areas had been backfilled/sloped at 3H:1V, but Mr. Ulmer indicated some of those might be temporary.

Revegetation: Mr. Ulmer indicated no revegetation effort had been initiated. No noxious weeds were observed.

Sediment Control: No erosion problems were observed and no BMPs were needed at the time of the inspection.

Support Facilities On-site: A screen plant was observed on site (see **Photo 5**).

Signs and Markers: The permit sign was properly posted (see **Photo 6**). The east boundary is marked with a fence. The south boundary is delineated by the east-west power line. Low Back Creek would need to be crossed to extend mining to the north. We were unable to locate sufficient boundary markers on the west side. Pioneer should add boundary markers on the west side (towards Hardscrabble Creek) such that line-of-site can be used from each marker to recognize the west boundary sufficiently to prevent the equipment operators from mining outside the affected area boundary. The north end of the site is split estate with the SLB managing the minerals. Mr. Freese noted there were no boundary markers delineating this area from the privately held minerals area to the south.

Permit Stipulations: There are no permit stipulations.

Storm Water MGT Plan: No oil or fuel spills observed and no stormwater was being retained at the time of the inspection. Stormwater drains to the pit and infiltrates.

Topsoil: Topsoil was being stripped and stockpiled for reclamation.

Structures: A power line was observed bisecting the site from the southwest towards the northeast. A powerline delineating the south boundary was also observed.

Please contact Tim Cazier (303)866-3567 ext. 8169 or email at tim.cazier@state.co.us if you have any questions regarding this report.

PHOTOGRAPHS



Photo 1. Active highwall (looking SW).

PHOTOGRAPHS (cont.)



Photo 2. Product stockpile and sloped area beyond (looking east).



Photo 3. North end of active mine area (looking east towards Low Back Creek).

PHOTOGRAPHS (cont.)



Photo 4. Southwest affected area, ready for topsoil (looking west).



Photo 5. Screen plant in active mine area (looking south, note powerline on right).

PHOTOGRAPHS (cont.)



Photo 6. Permit sign at entrance.

Inspection Contact Address

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ec: DRMS file
Angela Bellantoni, Pioneer
Steve Freese, SLB

M-2000-046 Post Inspection Map

Satellite Imagery from 6/1/2018

Legend

- 34.2 Ac (2018 Affected Area)
- M-00-46 2018 Affected Area
- ◆ M-00-46 E-W OHD
- ◆ M-00-46 N-S OHD
- M-00-46 Permit Boundary
- M-00-46 SLB Minerals
- Phillips Ranch #2
- Util Pole
- Util Pole*

