


**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 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: Betz Borrow Pit	MINE/PROSPECTING ID#: M-2018-048	MINERAL: Borrow material for	COUNTY: Weld
INSPECTION TYPE: Monitoring	INSPECTOR(S): Peter S. Hays	INSP. DATE: April 9, 2019	INSP. TIME: 13:00
OPERATOR: SEMA Construction, Inc.	OPERATOR REPRESENTATIVE: Addison Halverson	TYPE OF OPERATION: 111 - Construction by Government Agency	

REASON FOR INSPECTION: Normal I&E Program	BOND CALCULATION TYPE: Partial Bond	BOND AMOUNT: \$74,925.00
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None
WEATHER: Clear	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: May 7, 2019

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 Mining Plan

PROBLEM: The current Mining 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 submit a Technical Revision pursuant to Rule 1.9, with the required \$216 revision fee, to update and clarify the approved Mining Plan to reflect existing and proposed activities by the corrective action date.

CORRECTIVE ACTION DUE DATE: 6/6/19

INSPECTION TOPIC: Signs & Markers

PROBLEM: The affected area boundary markers are missing or incorrectly placed. This is a problem for failure to maintain boundary markers around the affected area as required by Rule 3.1.12(2).

CORRECTIVE ACTIONS: The Operator shall conduct a survey and replace the boundary markers in the correct location(s). The Operator shall provide proof to the Division that this has been done by the corrective action date.

CORRECTIVE ACTION DUE DATE: 6/6/19

OBSERVATIONS

The Betz Borrow Pit was inspected by Peter Hays with the Division of Reclamation, Mining and Safety (Division/DRMS) as part of the Division's monitoring inspection program. Mr. Addison Halverson with SEMA Construction, Inc. was present during the inspection.

The Betz Borrow Pit 111 permit application was approved and issued by the Division on November 12, 2018. The site is approved for 29.97 total acres with 25.93 acres of planned disturbance related to the North I-25 Express Land project. The Division holds a reclamation bond in the amount of \$74,925.00, which appeared adequate to reclaim the existing disturbance at the site.

The approved Mining Plan states the site will be mined from north to south with a maximum planned excavation depth of 6 feet. A site access road will be constructed in the northwest corner of the site in conformance with Weld County standards. An average of 12 inches of topsoil will be removed and stockpiled along the eastern permit boundary during mining activities.

The site was inactive during the inspection, however mining operations have commenced at the site. The mining excavation is progressing from south to north, which is the opposite direction approved in the Mining Plan. The site access road was constructed in the middle of the north permit boundary from CR 46, which differs from the approved location of the access road. The new access location was request by the landowner and allows for better sight lines for the truck drivers. A topsoil stockpile was located in the southeast corner of the site as indicated on the approved Mining Plan Map. The Division estimated the existing vertical highwall at 5 feet in height, which is consistent with the approved Mining Plan. The pit floor was dry at the time of the inspection. The approved Mining Plan defines a 200 foot offset distance from the oil and gas well and either side of the well access road. The Operator constructed a berm to indicate the southern offset location. As cited as a problem, the Division will require the Operator to submit a technical revision to update the location of the access road and the direction of mining excavation progression.

The approved post-mining land use for the site is rangeland. All reclaimed slopes will be graded to 3H:1V or less with 10-12 inches of topsoil replaced during reclamation. The Operator is performing concurrent reclamation of the site. The southern highwall and the southern portion of the east and west highwalls were regraded to the approved final reclamation slope of 3H:1V. Topsoil was replaced at a depth of approximately 12 inches on the regraded slopes and approximately 150 feet of the pit floor was topsoiled from the southern slope to the north. Topsoil was observed in the excavation area. The Operator was reminded of the requirement to salvage and stockpile all available topsoil on site for use during reclamation.

The mine identification sign was observed on a powerline post adjacent to CR 46 pursuant to Rule 3.1.12. The required boundary markers were not observed during the inspection. The north, east and west boundaries were roughly defined by CR 46, a fence line and the landowners driveway, respectively. As cited as a problem, the Division will require the Operator to survey the site, install the required boundary markers and submit proof of the installed markers.

A copy of the inspection map created by the Division based on the observations from this inspection is attached for reference. Photographs taken during the inspection are attached.

PHOTOGRAPHS



Betz Borrow Pit mine sign



Berm delineating the southern offset distance from the oil and gas no work zone



View of the site from the southeast corner looking west, southern highwall reggraded and topsoiled



View of the site from the southeast corner looking northwest, topsoil replaced on pit floor



View of the site from the southeast corner looking north, southern portion of east highwall regraded and topsoiled



View of the topsoil stockpile in the southeast corner of the site



View of the current vertical highwall, 5' in height, looking west



View of the site from the southwest corner looking east, southern highwall regraded and topsoiled



View of the concurrent reclamation in the southwest corner of the site looking east

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>N</u>
(HB) HYDROLOGIC BALANCE----- <u>Y</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>Y</u>
(MP) GENL MINE PLAN COMPLIANCE- <u>PB</u>	(FW) FISH & WILDLIFE----- <u>N</u>	(RV) REVEGETATION---- <u>N</u>
(SM) SIGNS AND MARKERS----- <u>PB</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 / N = Not inspected / NA = Not applicable to this operation / PB = Problem cited / PV = Possible violation cited

Inspection Contact Address

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Enclosure – Inspection Map

Ec: Michael Cunningham, DRMS

Betz 111

SEMA Betz 111 Borrow Pit

April 9, 2019 Inspection Map

Legend

-  Approved Access Road Location
-  Betz Permit Boundary
-  Current Mining Disturbance Area
-  New Access Road Location
-  Topsoil Replacement Area
-  Topsoil Stockpile

Approved Access Road Location

New Access Road Location

Weld Co Rd 46

Google Earth

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N

800 ft