




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: 2005-06 Geo-hydrology Drilling and Coring - Public	MINE/PROSPECTING ID#: P-2005-001	MINERAL: Oil shale	COUNTY: Rio Blanco
INSPECTION TYPE: Monitoring	INSPECTOR(S): Amy Yeldell	INSP. DATE: June 29, 2021	INSP. TIME: 08:00
OPERATOR: Shell Frontier Oil & Gas Inc.	OPERATOR REPRESENTATIVE: Samantha Baker	TYPE OF OPERATION: MP - Mineral Prospecting	
REASON FOR INSPECTION: Normal I&E Program	BOND CALCULATION TYPE: None	BOND AMOUNT: \$1,579,882.00	
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: U.S.BLM	
WEATHER: Clear	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: July 8, 2021	

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>N</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>N</u>	(SF) PROCESSING FACILITIES----- <u>NA</u>	(TS) TOPSOIL----- <u>NA</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>	(RS) RECL PLAN/COMP-- <u>Y</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>NA</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>NA</u>	

Y = Inspected / 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 Colorado Division of Reclamation, Mining, and Safety normal monitoring program. The 2005-06 Geo-hydrology Drilling and Coring -Public is a Hard Rock NOI located in Rio Blanco County. Amy Yeldell of the Division conducted the inspection and Samantha Baker represented the Operator. Paul Daggett of the White River Field Office was also present.

The permitted NOI includes a total of 16.75 acres and has a current bond of \$71,613. Following the approval of AR-1 in 2020 the following pads permitted; 21-1-299, 22-4-298, 23-15-298, 24-21-298, 25-10-298, A31-6-298, 39-1-299, 40-1-299, 41-1-299, 42-1-299, 43-1-299, 44-2-29, 45-1-299, 46-2-299

All hydrology wells have been abandoned and pads have been reclaimed. The last reclamation efforts were completed in 2015 and now are awaiting adequate vegetation establishment. This summer has been extremely dry, with little to no spring time moisture and a below average snowfall leaving many areas stunted. Over all pads are stable with no signs of erosion. All mining related debris has been removed from the site(s). Specific observations of each pad are listed below,

*Pad 25-10-298: Long access road. Road remains disturbed until the power line right of way ends. Reclaimed roadway into the pad. Overall the pad is stable and with well-established vegetation considering grazing pressures. Significant improvements on noxious weed management have been made. Final reclamation has been achieved.

*Pad 23-15-298: Long access road coming from pad 25. The road is free of erosion and coming in very well considering rocky dry soils. Pad has diverse vegetation with very few spots of cheatgrass (which have been treated). Native vegetation is outcompeting noxious weeds and thriving. Final reclamation has been achieved.

Pad 22-4-298: Right off county road, no access road. Mostly all rabbit brush with very little understory. Heavy cheatgrass kill last fall stunted what little grasses were established. Spot seeding occurred this spring. Overall good cover just need to monitor for weeds. Possibly re-inspect this fall if monsoons help grasses bounce back.

*A31-6-298: Along access to Pad 18. Very small area of disturbance, approximately 10 ft. x 0 ft. Shrubs are volunteering to fill in the void. Some native grasses have also established. Disturbance is hard to distinguish from surroundings. Final reclamation has been achieved.

Note: Pads 39-46 are located within the OST general area. There is a gate located at the entrance to the complex that will be removed upon completion of final reclamation. Vegetation on access roads is establishing well. Many nuisance species mixed that need additional treatments. With adequate treatments, desirable natives should continue to establish.

*Pad 43-1-299: Pad has been heavily grazed but appears to be resilient. Lots of perennial grasses with some shrubs beginning to volunteer. Overall cover is greater than 70% with diverse and sustainable vegetation. Final reclamation has been achieved.

Pad 46-2-299: Pad has been heavily grazed. Heavy cheatgrass treatment in previous years has stunted the grasses. No new weeds were observed. Overall vegetation is patchy. Additional spot seeding may be necessary if treatment areas don't improve.

The Division records show that Pad 24-21-298 was transferred to EGL however a modification or release request has not yet been submitted.

* Indicates pads where final reclamation has been achieved

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 303-866-3567 Ext 8183 or via email at amy.yeldell@state.co.us

Inspection Contact Address

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Enclosure

CC:

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PHOTOGRAPHS





Photo Two: 23-15-298 access road



Photo Three: Pad 23-15-298



