




## 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> Mahogany Research-Freeze Wall Test	<b>MINE/PROSPECTING ID#:</b> P-2005-017	<b>MINERAL:</b> Oil shale	<b>COUNTY:</b> Rio Blanco
<b>INSPECTION TYPE:</b> Monitoring	<b>INSPECTOR(S):</b> Amy Yeldell	<b>INSP. DATE:</b> May 31, 2022	<b>INSP. TIME:</b> 09:00
<b>OPERATOR:</b> Shell Frontier Oil & Gas Inc.	<b>OPERATOR REPRESENTATIVE:</b> Samantha Baker	<b>TYPE OF OPERATION:</b> MP - Mineral Prospecting	
<b>REASON FOR INSPECTION:</b> Normal I&E Program	<b>BOND CALCULATION TYPE:</b> None	<b>BOND AMOUNT:</b> \$2,158,429.00	
<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> June 16, 2022	

### 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>NA</u>	(SF) PROCESSING FACILITIES----- <u>NA</u>	(TS) TOPSOIL----- <u>NA</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>NA</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 Mahogany Research-Freeze Wall Test is a Hard Rock NOI located in Rio Blanco County. Amy Yeldell of the Division conducted the inspection. Samantha Baker represented the Operator.

The permitted NOI includes a total of 5 acres and has a current bond of \$2,158,429. All facilities areas located within the fenced in portion have been release under AR-1 in 2021. Following the approval of AR-1 only the hydrology pads remain permitted: 99-35-199, 100-35-199, 101-35-199, 102-35-199, and 130-35-199.

This spring/ early summer has been very cold with limited precipitation. Generally plants are behind schedule in germination and inspection timing is more comparable to typical March/April site conditions. Wild horse populations have significantly increased and vegetation throughout the Piceance Basin is showing signs of overgrazing. All hydrology wells have been abandoned and pads have been reclaimed. Over all pads are stable with no signs of erosion. All mining related debris has been removed from the site(s) where required.

Due to an extensive cheatgrass infestation pads were cleared using 'bare ground' and allowed to rest. They were reseeded in the spring of 2021. Sage and shrubs were left in place and have continued to thrive. Grasses have begun to germinate and initial success looks promising. There are a fair amount of undesirable annuals on site and a few patches of listed weeds. In general any undesirable plants should be effectively managed so that establishment of desirable plants is not impacted.

Responses to this inspection report should be directed to Amy Yeldell at the Division of Reclamation, Mining and Safety, Room 215, 1001 E 62nd Ave, Denver, CO 80216. 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**

Samantha Baker  
Shell Frontier Oil & Gas Inc.  
4487 County Road  
Rifle, CO 81650

EC:  
Travis Marshall, Senior EPS, Grand Junction DRMS

**PHOTOGRAPHS**









