

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 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:	MINE/PROSPECTING ID#:	MINERAL:	COUNTY:
Una Pit	M-1980-080	Sand and gravel	Garfield
INSPECTION TYPE:	INSPECTOR(S):	INSP. DATE:	INSP. TIME:
Monitoring	Amy C. Yeldell	January 17, 2019	07:45
OPERATOR:	OPERATOR REPRESENTATIVE:	TYPE OF OPERATION:	
Grand Junction Concrete Pipe Co.	Jim Doody	112c - Construction Regular Operation	
REASON FOR INSPECTION:	BOND CALCULATION TYPE:	BOND AMOUNT:	
High Priority	None	\$300,071.47	
DATE OF COMPLAINT:	POST INSP. CONTACTS:	JOINT INSP. AGE	NCY:
NA	DRMS	None	
WEATHER:	INSPECTOR'S SIGNATURE:	SIGNATURE DAT	Е:
Foggy	Amy Geldell	January 25, 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>N</u>	(FN) FINANCIAL WARRANTY <u>N</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 N	(TS) TOPSOIL <u>N</u>
(MP) GENL MINE PLAN COMPLIANCE- <u>Y</u>	(FW) FISH & WILDLIFE <u>Υ</u>	(RV) REVEGETATION <u>N</u>
(SM) SIGNS AND MARKERS <u>N</u>	(SP) STORM WATER MGT PLAN <u>N</u>	(RS) RECL PLAN/COMP N
(ES) OVERBURDEN/DEV. WASTE <u>N</u>	(SC) EROSION/SEDIMENTATION \underline{Y}	(ST) STIPULATIONS Y
(AT) ACID OR TOXIC MATERIALS <u>Y</u>	(OD) OFF-SITE DAMAGE <u>Y</u>	

Y = Inspected / N = Not inspected / NA = Not applicable to this operation / PB = Problem cited / PV = Possible violation cited

OBSERVATIONS

This inspection was conducted by the Colorado Division of Reclamation, Mining and Safety (DRMS) in response to a spill notification from the Colorado Department of Public Health and Environment (CDPHE), case number 2019-0021, received on January 15, 2019. The spill was self-reported by Caerus Oil and Gas (Caerus), who is the operator at the Summit Compressor Station, the location of the origin of the spill. Activities conducted at the Summit Compressor Station are regulated by the Colorado Oil and Gas Conservation Commission (COGCC).

The gravel pit referenced in the spill notification appears to be the Una Pit, DRMS Permit No. M-1980-080, a 112c type operation approved for 162 acres affected lands for the extraction of construction materials. DRMS staff member Amy Yeldell conducted the inspection. Caerus was represented by Brett Middleton. The DRMS permit holder, Grand Junction Concrete Pipe Company (GJ Pipe), was represented by Jim Doody, Jon Muller and Tanner Brown. This inspection report is accompanied by a copy of the spill notification form, two Google Earth satellite images (Map 1 and 2), and seven photographs taken during the inspection (Photos 1 - 7).

The DRMS inspection focused on the spill path and portions of the DRMS permit area impacted by the spill. The geographic relationship of the Una Pit and the various features of the spill discussed in this report are illustrated in the enclosed Map 1 and 2.

As shown in Photos 1-3, Caerus directed DRMS to the origin of the spill (approximately 39°24'14.37"N, 108° 5'58.12"W), a cellar located at the north end of the Summit Compressor Station. The cellar had over flowed. The spill was estimated at a rate of approximately 30 gallons per minute for an undisclosed period of time. The soil around the cellar exhibited discoloration and strong odor of hydrocarbons. Caerus indicated the spilt fluids migrated south through the gravel surface of the compressor station and were intercepted by the stormwater structures for compressor station and access road. Locations of soil samples were marked by survey stakes with orange paint. As of the inspection day no additional soil removal or remediation action had occurred in this area. The leak had been repaired and the line reactivated.

As shown in Photos 4-6, the spilt fluids, intercepted by the stormwater ditches and culverts, were directed to a sediment pond located south of the Summit Compressor Station and east of the OD34 pad. The spilt fluids, now augmented by seasonal snow melt, exceeded the capacity of the sediment pond. The impounded fluids discharged along the southeast corner of the sediment pond. The berms around the sediment pond have since been enlarged to enhance the pond's capacity. The sediment pond was being drained via pump truck and the fluids removed for disposal. According to Caerus, pumping was occurring around the clock. Water depth/volume remaining in the sediment pond was not determined due to snow and ice cover. The surrounding soils appeared saturated from the stormwater as well as spilt fluids. Minimal soil discoloration was observed. Little to no odor of hydrocarbons were observed at the sediment pond for the OD34 pad.

As shown in Photos 5-7, discharge from the sediment pond traveled south approximately 100 feet before entering the DRMS permit boundary (approximately 39°24'2.35"N, 108° 5'58.07"W). The fluids were conveyed to a pond within the gravel pit via an armored stormwater channel. Due to pumping, inflow to the pit pond had ceased. No odor or oil sheen was observed on the water within the DRMS pit. Evidence of erosion to the rock armored pond inlet was not observed. Evidence of discharge from the DRMS sediment pond was not observed.

The spill response is being managed by COGCC and CDPHE. Caerus has collected approximately 20 samples, which have been forwarded to laboratory for analysis. Additional samples are anticipated. Initial soil samples

were limited to six inch depth. Depending on lab results of these initial samples Caerus is prepared to collect deeper samples to fully determine the extent of petroleum contaminated soils and develop a remediation plan. Water samples were generally taken from the surface. Ice had to be penetrated to obtain water samples. There is a spring in the northeast corner of the DRMS permit boundary and cross-gradient from the spill origin. A water sample was collected from the spring. Additionally, up and down gradient water samples were taken from the Colorado River, bordering the south side of the gravel pit.

One soil sample and two water samples had been collected from areas located within the DRMS permit boundary. Caerus indicated the water sample collected from the inlet to the DRMS pond show Benzene levels to be within drinking water standards. The second sample, taken from the far side of the pond and nearby the spillway, registered no Benzene. DRMS directed Caerus and GJ Pipe to provide a copy of all lab analysis to DRMS for any samples collected from locations within the DRMS permit boundary. Lab reports shall be accompanied by a map which depicts sample locations and hydrologic discussion of results compared with applicable CDPHE standards. If test results indicate any exceedance of CDPHE standards a remediation plan will be required.

On January 16, 2019, a representative from Colorado Parks and Wildlife (CPW) visited the spill site. Also on January 16, 2019, a local consulting company, LT Environmental, Inc., conducted a preliminary site assessment.

No enforcement actions were initiated during the inspection.

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

Enclosures

Inspection Contact Address

Jim Doody Grand Junction Concrete Pipe Co. 556 Struthers Ave. Grand Junction, CO 81502

EC: Wally Erickson, Senior EPS, Grand Junction DRMS Russ Means, Minerals Program Director, DRMS Ann Nedrow, CDPHE Steven Arauza, EPS, COGCC Ben Felt, Aquatic Biologist, CPW Brett Middleton, Sr. Environmental Specialist, Caerus Oli & Gas

PERMIT #: M-1980-080 INSPECTOR'S INITIALS: ACY INSPECTION DATE: January 17, 2019

PHOTOGRAPHS













COLORADO

Office of Emergency Preparedness & Response

Department of Public Health & Environment

					Print date	1/15/2019
CASE NUMBER: 2019-00	21	DATE EN	TERED: 1	/15/2019	TIME ENTERED:	15:00
WHO TOOK REPORT: A	NN NEDROW	DATE REI	PORTED: 1	/15/2019	TIME REPORTED:	2:49:00 PM
	NRC NUMBER:					
CALLER: BRETT MI	DDLETON CO	ONFIDENTIAL: N	PHONE:	970-987-4	4650	
ORGANIZATION: CAE	RUS OIL AND GAS					
STREET: 143 DIAM	OND AVE					
CITY: PARACHUTI	E COUNTY:					
STATE: CO	ZIP CODE: 81635-					
POTENTIALLY RESPONS	IBLE PARTY: CAERUS OIL AND GAS					
PRP CONTACT: BRETT	MIDDLETON	PRP PHO	NE: 970-987-46	50		
ADDRESS: 143 DIAMON	ID AVE	EMAIL:	bmiddleton@ca	aerusoilan	taas com	
CITY: PARACHUTE	COUNTY:	,			igue.com	
STATE: CO	ZIP CODE: 81635-					
EVENT DATE: 1/14/2	2019 EVENT TIME: 1:00:00 P	M				
LOCATION: HWY 6 AND	STONE QUARRY RD		MILE MARK	ER:		
CITY:	COUNTY: GARFIELD					
STATE: CO	ZIP CODE:		Latitude:	39.4039		
			Longitude:	-108.089	9484	
TYPE OF MATERIAL: E &						
MATERIAL1: PRODUCED W	ATER QUANTITY1:	300 UNIT1: BARRE	LS QTY TO) WATER	1: U	NIT1:
MATERIAL2:	QUANTITY2:	UNIT2:	QTY TO) WATER2	2: UN	NT2:
MATERIAL3:	QUANTITY3:	UNIT3:	QTY TO) WATER:	3: U	NIT3:
SOURCE: X						
SOURCE TYPE: OIL WELL/WELL SITE						
CAUSE: FAILURE EQUIPMENT						
	A produced water line leaked 1000 - 3000 a sheen on the produced water prior to ge They do not have a guess as to how much	tting to the gravel pit, bu	t the sheen was go	one before		

MEDIUM IMPACT	ED: WATER AND	D LAND	ixed Facility	✓ Land Air	Groundwater	
✓ Surface Water Waterway Impacted: WATER IN A GRAVEL PIT					/	
NUMBER C	OF DEATHS:	NUMBER OF	INJURIES:	EVACUATION:	NUMBER EVACUATED:	
ACTION TAKEN: They have isolated the line and have had vacuum trucks cleaning up the released water. The line has been repaired and pressure tested, so it is back online and not leaking.						

CDPHE NOTIFIED: WQCD: MICHELLE THIEBAUD, DAVID KURZ, KC KAY, HEATHER DRISSEL, CAROL KEEVER, NATHAN MOORE; HMWMD, DRMS, CPW, COGCC

COMMENTS: Garfield County EH

RESPONDERS: CAERUS OIL & GAS

RESPONDER COMMENTS:

ADDITIONAL COMMENTS: