




**COLORADO DIVISION OF RECLAMATION, MINING AND SAFETY**  
**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> Arkins Park Quarries	<b>MINE/PROSPECTING ID#:</b> M-1985-212	<b>MINERAL:</b> Sandstone	<b>COUNTY:</b> Larimer
<b>INSPECTION TYPE:</b> Monitoring	<b>INSPECTOR(S):</b> Michael A. Cunningham	<b>INSP. DATE:</b> December 10, 2015	<b>INSP. TIME:</b> 09:00
<b>OPERATOR:</b> ARKINS PARK STONE CORPORATION	<b>OPERATOR REPRESENTATIVE:</b> Chantea Honer	<b>TYPE OF OPERATION:</b> 112c - Construction Regular Operation	

<b>REASON FOR INSPECTION:</b> Normal I&E Program	<b>BOND CALCULATION TYPE:</b> None	<b>BOND AMOUNT:</b> \$137,600.00
<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> January 7, 2016

**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:** Off-site Damage

**PROBLEM/POSSIBLE VIOLATION:** Problem: The Division has reason to believe, based on a review of Mining Plan Maps and aerial photographs, that the Operator may have affected land outside of the permit boundary. This is a problem pursuant to C.R.S. 34-32.5-116(4)(i) for failure to protect areas outside of the affected land from slides or damage occurring during the mining operation and reclamation.

**CORRECTIVE ACTIONS:** The Operator shall conduct a professional survey of the permit boundary, as it is currently delineated, and shall provide the Division with a map depicting the surveyed permit boundary on or before the corrective action date.

**CORRECTIVE ACTION DUE DATE:** 3/07/16

**INSPECTION TOPIC:** Topsoil

**PROBLEM/POSSIBLE VIOLATION:** Problem: The current mine 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, with the required \$216 revision fee, to update and clarify the current approved mine plan to reflect existing and proposed activities by the corrective action date. The Technical Revision shall specify where topsoil will be stockpiled, how the stockpiles will be stabilized, how the topsoil will be segregated from the sandstone overburden and the total depth of topsoil to be replaced.

**CORRECTIVE ACTION DUE DATE:** 2/08/16

## OBSERVATIONS

The inspection was conducted by Michael Cunningham of the Division of Reclamation, Mining and Safety (Division). Chantea Honer and Jordan Wicks of Arkins Park Stone Corporation were present for the inspection. The Arkins Park Quarries are located 2.25 miles south of Masonville, Colorado in Larimer County. The site is permitted for 177 acres and the post-mining land use is rangeland.

### Financial Warranty:

The Division currently holds a financial warranty in the amount of \$137,000.00. The financial warranty was last increased in 2010. Since 2010, the overall disturbance has increased. The Division did not evaluate the financial warranty as a part of this inspection given time constraints at the time of the inspection. The Division will contact the Operator to schedule a separate inspection to evaluate the adequacy of the financial warranty.

### Gen. Compliance With Mine Plan:

The Arkins Park Quarries historically removed sandstone from individual quarries throughout the site. The individual designations of the quarries are no longer used as the Operator has expanded the quarries such that they now form one large disturbed area. Sandstone is primarily removed using front end loaders as well as by hand with pry bars. The product is cut to dimension with hydraulic cutters which are often located near the active quarry areas. Larger slabs of sandstone are transported to the processing area where the larger diamond belt saws are located. The dimension stone is stacked on pallets which are stored along the eastern perimeter of the site. The uncut blocks of stone are stored in the Meadow area on the west side of the site.

### Off-site Damage:

Following the inspection, the Division utilized Google Earth Pro to overlay the permit boundary onto an aerial photograph of the Arkins Park Quarry. The aerial photograph was taken on June 19, 2014 and is considered to be representative of current site conditions. The permit boundary was recreated by referencing Exhibit C - Mining Plan Map which was submitted under Conversion No. 2 (approved August 28, 1986) as well as Exhibit C - Mining Plan Map submitted under Amendment No. 2 (approved April 21, 1994). The approved Mining Plan Maps depict the permit boundary on a USGS 7.5 minute topographic map. Utilizing historical topographic maps in Google Earth Pro, the Division was able to draw the permit boundary using the contour lines as reference points. Upon review of the completed maps, the Division believes a portion of the western permit boundary is incorrectly delineated in the field. As a result, the Division has reason to believe that approximately 16.3 acres of land have been affected outside of the approved permit boundary. Failure to protect areas outside of the affected land may result in a possible violation. However, the Division will afford the Operator an opportunity to demonstrate that the currently delineated permit boundary accurately encompasses the 177 acre permit area.

The Division has included the two maps created in Google Earth Pro, one depicting the permit boundary over an aerial photograph of the site and the other depicting the permit boundary over a topographic map. In addition, copies of the above referenced Mining Plan Maps have been enclosed with this report. **This matter has been cited as a problem and will require corrective action by the Operator. Please see the first page of this report for additional information.**

Signs and Markers:

The permit sign was posted at the site entrance and the permit boundary was delineated by fence lines as required by Rule 3.1.12.

Topsoil:

The Reclamation Plan specifies that all available topsoil and sandstone fines will be salvaged and stockpiled for use during reclamation. The Division observed a topsoil stockpile in the Meadow area, north of the product storage area. However, in the active quarry areas the topsoil is mixed with overburden and is placed around the perimeter of the individual quarry areas. The Reclamation Plan does not specify where topsoil will be stockpiled, how the stockpiles will be stabilized, how the topsoil will be segregated from the sandstone overburden or the total depth of topsoil to be replaced. **The lack of detail in the Reclamation Plan regarding the salvaging and stockpiling of topsoil has been cited as a problem and will require corrective action. Please see the first page of this report for additional information.**

This concluded the inspection.



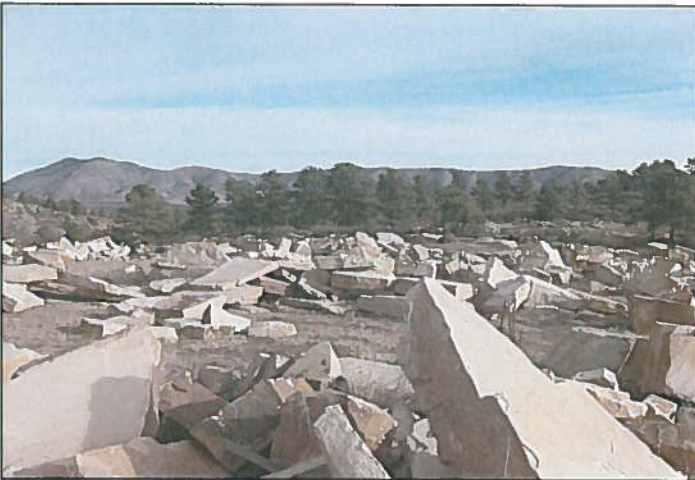
## PHOTOGRAPHS



1. South quarry area.



2. Product storage area, east side of permit area.



3. Product storage area, west side of permit area.



4. Topsoil/overburden stockpile.



5. North quarry area.



6. North quarry area.

### GENERAL INSPECTION TOPICS

The following list identifies the environmental and permit parameters inspected and gives a categorical evaluation of each

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

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

#### Inspection Contact Address

Chantea Honer  
ARKINS PARK STONE CORPORATION  
5975 NCR 27  
Loveland, CO 80538

Enclosures (5)

CC: Wally Erickson, DRMS

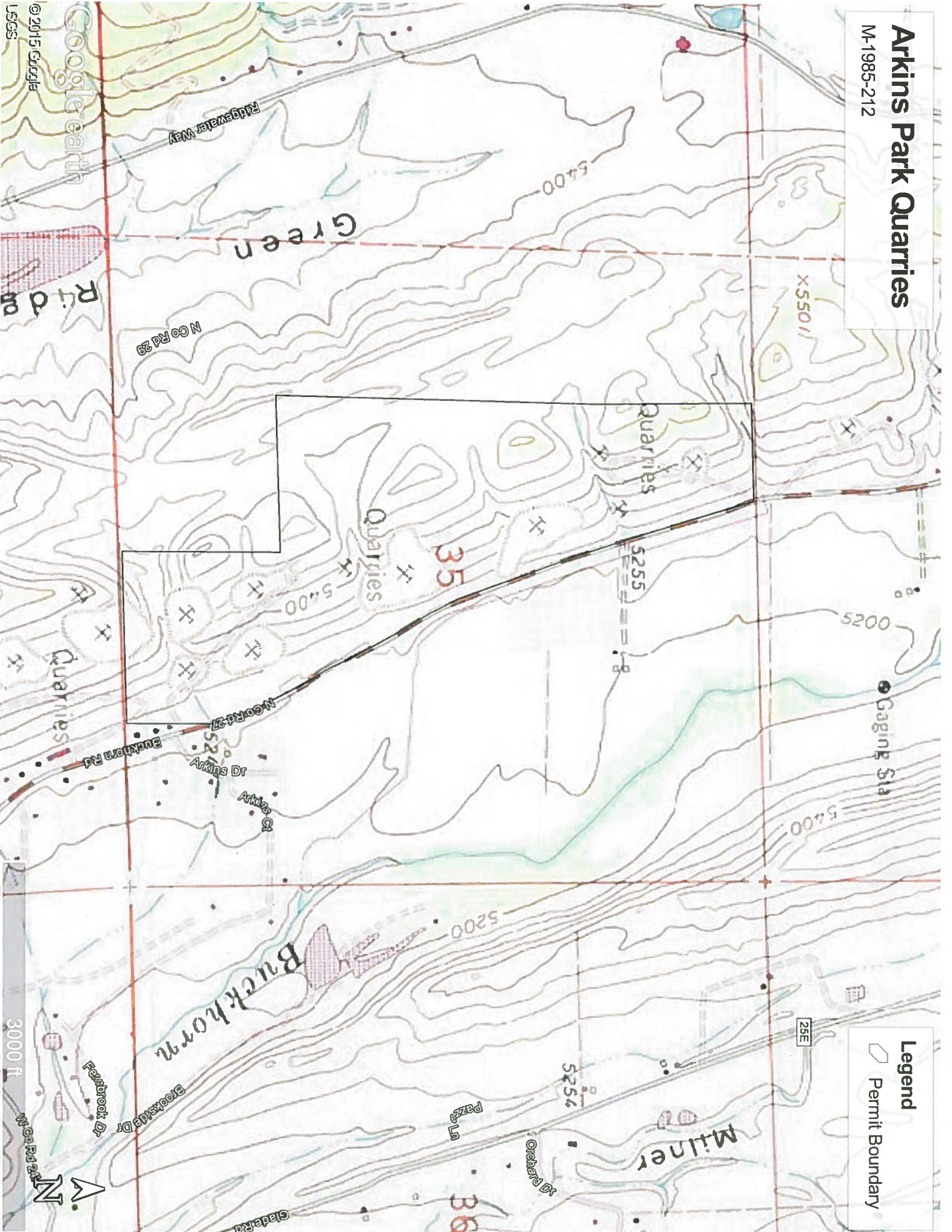


# Arkins Park Quarries

M-1985-212

## Legend

 Permit Boundary





# Arkins Park Quarries

M-1985-212

**Legend**  
Permit Boundary



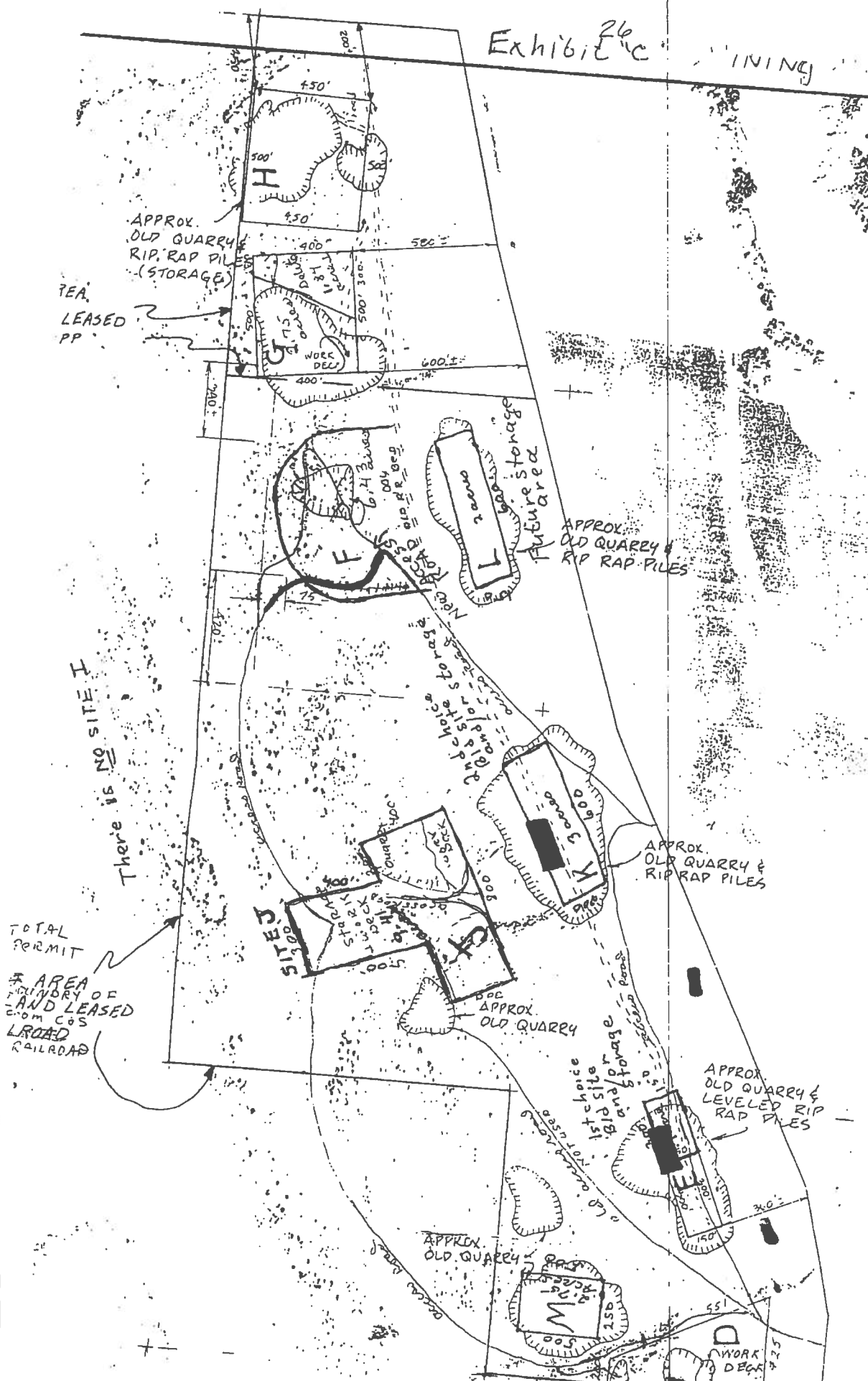
Google earth

© 2015 Google

3000 ft



11/11/19





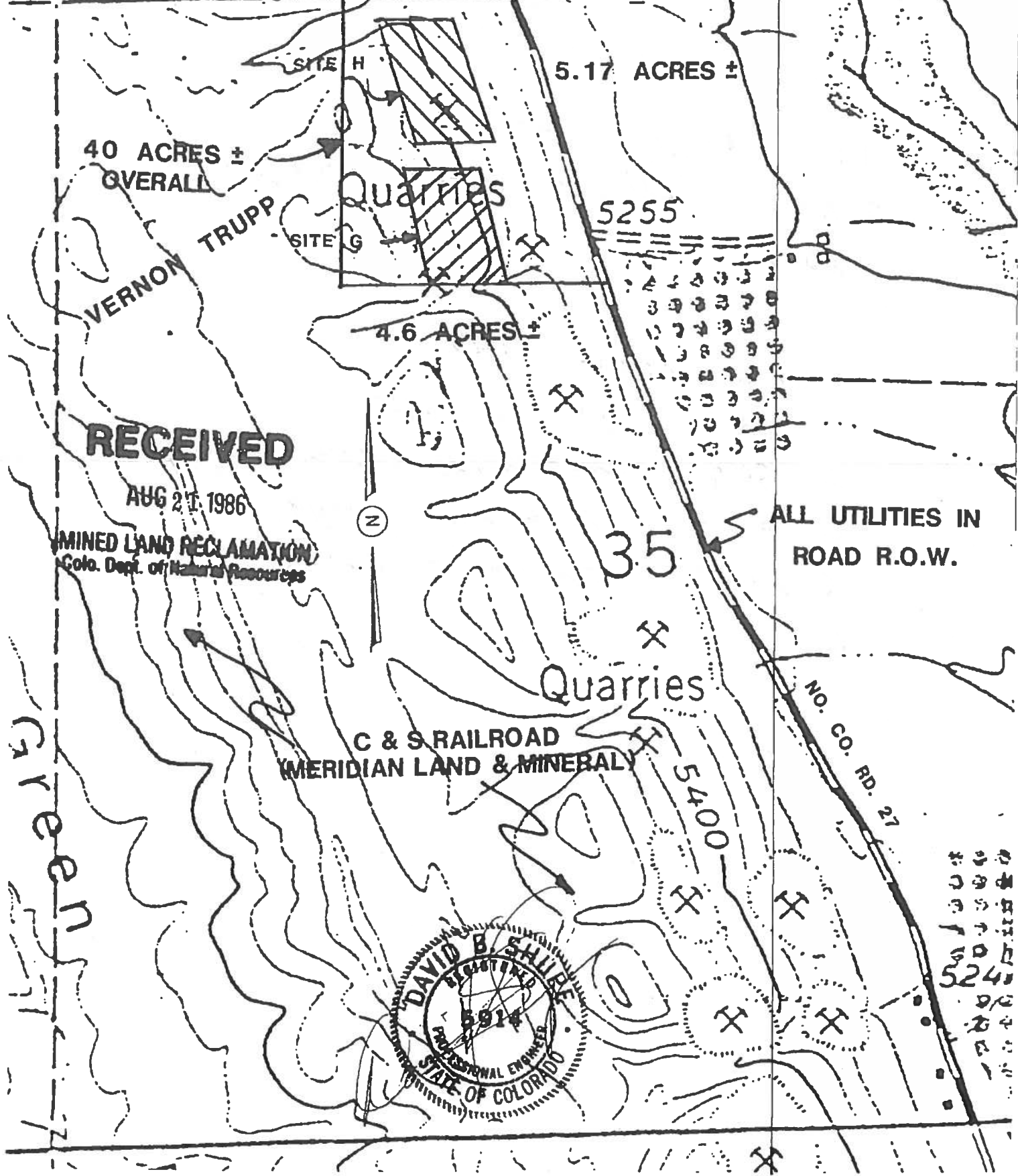
x 5501

**MINING PLAN MAP**

Scale 1"=400'

**LOVELAND BUFF-TRUPP**  
GENE FREEMAN

**JAMES & MARGARET FREEMAN**



**RECEIVED**

AUG 21 1986

MINED LAND RECLAMATION  
Colo. Dept. of Natural Resources

ALL UTILITIES IN  
ROAD R.O.W.

Quarries

C & S RAILROAD  
(MERIDIAN LAND & MINERAL)



Green

ARKINS PARK SOUTH

X 5501

EXHIBIT

"C"

P. 2

MINING PLAN MAP

Scale 1" = 400'

VERNON TRUPP

Quarries

5255

SITE E

4.6 ACRES ±

ALL UTILITIES IN  
ROAD R.O.W.

35

WAYNE L. PHIPPS

HOWARD & FRANCIS DECKER

ROBERT & DELLA SMITH

DARREL R. SCHMIDT

Quarries

NO. CO. RD. 27

RECEIVED

AUG 21 1986

MINED LAND RECLAMATION  
Colo. Dept. of Natural Resources

OF LOVELAND

136.91 ACRES ±  
OVERALL

NORRIS & NE

1.0 ACRES ±

SITE E

3.6 ACRES ±

SITE D

