



UNITED STATES
DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY
986 NATIONAL CENTER
RESTON, VIRGINIA 20192

MINE, DEVELOPMENT, AND MINERAL
EXPLORATION SUPPLEMENT

INDIVIDUAL COMPANY DATA - PROPRIETARY

[GENERAL INSTRUCTIONS](#)

[SPECIFIC INSTRUCTIONS](#)

Please complete all applicable portions of this form

Respondent ID: Reporting Year: 2015 Base Canvass: C78

Name and location of mine (MIForms)

Name: USGSxxx

Address:

City or town: AKRON

County: ADAMS

State / Territory / Province: Ohio

ZIP Code / Postal Code:

Country: USA

Section:

Township:

Range:

Name and location of mine (CMS)

Operation name: US GEOLOGICAL SURVEY

Address: 12201 SUNRISE VALLEY DR MS 985

City: RESTON

County: ADAMS

State: VIRGINIA

Zip Code: 20192

Controlling Company: US GEOLOGICAL SURVEY2a

Company ID: 33333

Name and location of mine (RCF)

Operation name: USGS

City: AKRON

County: ADAMS

State: OHIO

Controlling Company: US GEOLOGICAL SURVEY2

Company ID: 33333

Give name and address of operator if operated by someone else during year

1. Production status, activity, and type of operation during year. (check all that apply)		
STATUS:	ACTIVITY:	TYPE OF OPERATION:
<input type="checkbox"/> (1) Active <input type="checkbox"/> (2) Idle entire year <input type="checkbox"/> (3) Abandoned (Date) <input type="checkbox"/> (4) Sold or Transferred (Date) <input type="checkbox"/> (5) Other (specify)	<input type="checkbox"/> (1) Assessment work only <input type="checkbox"/> (2) Development (Complete Section 3) <input type="checkbox"/> (3) Exploration (Complete Section 5) <input type="checkbox"/> (4) Shipping from stockpiles <input type="checkbox"/> (5) Treating dumps or tailings <input type="checkbox"/> (6) Leaching (specify) <input type="checkbox"/> (7) Extraction (specify) <input type="checkbox"/> (8) Other (specify)	<input type="checkbox"/> (1) Open pit, quarry, or strip mine <input type="checkbox"/> (2) Dredging <input type="checkbox"/> (3) Placer <input type="checkbox"/> (4) Well or pumping operation <input type="checkbox"/> (5) Solution <input type="checkbox"/> (6) In-situ <input type="checkbox"/> (7) Underground <input type="checkbox"/> (8) Offshore <input type="checkbox"/> (9) Other (specify)
Number of mines		

2. Crude material mined or handled during year.					
Report the total quantity of crude ore mined, treated and shipped, and waste material from production operations. Crude ore covers both LIQUID and SOLID MATERIALS. Please identify your REPORTING UNIT by checking the appropriate box.					
<input type="checkbox"/> (01) Pounds <input type="checkbox"/> (02) Short tons <input type="checkbox"/> (03) Long tons <input type="checkbox"/> (04) Cubic yards <input type="checkbox"/> (05) Gallons					
<input type="checkbox"/> (06) Kilograms <input type="checkbox"/> (07) Metric tons <input type="checkbox"/> (08) Cubic meters <input type="checkbox"/> (09) Liters <input type="checkbox"/> (10) Other (specify)					
Item	Code	Underground mining (2)	Code	Surface Mining (3)	
Crude ore mined	201		211		
Crude ore processed	202		212		
Crude ore shipped without processing	203		213		
Mine operation waste materials: Stripped material			214		

Other waste material	205	<input type="text"/>	215	<input type="text"/>
Other (specify) <input type="text"/>	206	<input type="text"/>	216	<input type="text"/>

Official use only						
DS	Com. code (SIC Code)	QU	QC	Q	VC	V
<input type="checkbox"/> <input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="radio"/> Yes <input type="radio"/> No	<input type="text"/>	<input type="radio"/> Yes <input type="radio"/> No	<input type="text"/>
<input type="checkbox"/> <input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="radio"/> Yes <input type="radio"/> No	<input type="text"/>	<input type="radio"/> Yes <input type="radio"/> No	<input type="text"/>
<input type="checkbox"/> <input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="radio"/> Yes <input type="radio"/> No	<input type="text"/>	<input type="radio"/> Yes <input type="radio"/> No	<input type="text"/>
<input type="checkbox"/> <input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="radio"/> Yes <input type="radio"/> No	<input type="text"/>	<input type="radio"/> Yes <input type="radio"/> No	<input type="text"/>
<input type="checkbox"/> <input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="radio"/> Yes <input type="radio"/> No	<input type="text"/>	<input type="radio"/> Yes <input type="radio"/> No	<input type="text"/>
<input type="checkbox"/> <input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="radio"/> Yes <input type="radio"/> No	<input type="text"/>	<input type="radio"/> Yes <input type="radio"/> No	<input type="text"/>
<input type="checkbox"/> <input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="radio"/> Yes <input type="radio"/> No	<input type="text"/>	<input type="radio"/> Yes <input type="radio"/> No	<input type="text"/>
<input type="checkbox"/> <input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="radio"/> Yes <input type="radio"/> No	<input type="text"/>	<input type="radio"/> Yes <input type="radio"/> No	<input type="text"/>
<input type="checkbox"/> <input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="radio"/> Yes <input type="radio"/> No	<input type="text"/>	<input type="radio"/> Yes <input type="radio"/> No	<input type="text"/>

3. Development for minerals during year.

"DEVELOPMENT" is work performed in preparing a proved ore body for mining. Include **CONTRACT WORK** done for you by contracting firms and work done by other units of your company. Please identify your REPORTING UNIT.

Type of activity (1)	Code	<input type="radio"/> Feet <input type="radio"/> Meters	<input type="radio"/> Short tons <input type="radio"/> Metric tons
		Distance (2)	Ore and waste removed (3)
Shaft and winze sinking	302	<input type="text"/>	<input type="text"/>
Raising	303	<input type="text"/>	<input type="text"/>
Drifting, crosscutting, or tunneling	304	<input type="text"/>	<input type="text"/>
Stripping	305	<input type="text"/>	<input type="text"/>
Solution mining: Salt	306	<input type="text"/>	
Sulfur	307	<input type="text"/>	
Other (specify) <input type="text"/>	308	<input type="text"/>	
<input type="text"/>	309	<input type="text"/>	
Well drilling	310	<input type="text"/>	
Other (specify) <input type="text"/>	311	<input type="text"/>	<input type="text"/>

4. Mining methods during year.

For Surface and Underground, enter percentages of your total activities (based on tonnage or tonnage equivalent) devoted to the following mining operations.

Method (1)	Code	Percent (2)
Surface:		
Open pit, quarry, or strip mine:		
Mechanical loading and hauling		
Preceded by drilling and blasting	411	<input type="text"/>
NOT Preceded by drilling and blasting	412	<input type="text"/>
Other loading and hauling	413	<input type="text"/>
Other surface mining:		
Dredging	414	<input type="text"/>
Mechanical excavation and nonfloat washing	415	<input type="text"/>
Pumping from wells, ponds, or stations	416	<input type="text"/>
Leaching (specify) <input type="text"/>	417	<input type="text"/>
Other (specify) <input type="text"/>	418	<input type="text"/>
Total	419	<input type="text"/>
Underground:		
Stoping:		
Cut-and-fill	421	<input type="text"/>
Naturally supported rooms (open stoping)	422	<input type="text"/>
Artificially supported (specify) <input type="text"/>	423	<input type="text"/>

Other (specify) []	424	[]
Caving: Block	425	[]
Sub-level	426	[]
Other (specify) []	427	[]
Solution	428	[]
Leaching (specify) []	429	[]
Other (specify) []	430	[]
Total	431	[]

EXPLORATION

Name and address of Exploration Division, if different from the [name and location of mine](#).

Name [] Nearest city or town [] State []

5. Exploration for minerals by location, major commodity, and type of drilling during year.

Exploration Operation No. 1

(1) Project Name	[]	State Code [] County Code [] [] (Primary commodity)
(2) Location:		
State	Not specified [v]	
County	[]	
Section	[]	
Township	[]	
Range	[]	
(3) Major commodities for which exploration work was done.	[] [] [] [] [] [] [] [] (Others)	

Exploration Operation No. 2

(1) Project Name	[]	State Code [] County Code [] [] (Primary commodity)
(2) Location:		
State	Not specified [v]	
County	[]	
Section	[]	
Township	[]	
Range	[]	
(3) Major commodities for which exploration work was done.	[] [] [] [] [] [] [] [] (Others)	

(4) Land Classification. (Check all that apply and give percentage.)

		Percent
<input type="checkbox"/> Private		[]
<input type="checkbox"/> State or Local		[]
<input type="checkbox"/> Federal: Public Domain		[]
<input type="checkbox"/> Acquired		[]
<input type="checkbox"/> Other (specify) []		[]
Agency Managing Surface Rights:		Percent
<input type="checkbox"/> BLM		[]
<input type="checkbox"/> U.S. Forest Service		[]
<input type="checkbox"/> Other (specify) []		[]
Total		[]
<input type="checkbox"/> Other (specify) []		[]
TOTAL		[]

(4) Land Classification. (Check all that apply and give percentage.)

		Percent
<input type="checkbox"/> Private		[]
<input type="checkbox"/> State or Local		[]
<input type="checkbox"/> Federal: Public Domain		[]
<input type="checkbox"/> Acquired		[]
<input type="checkbox"/> Other (specify) []		[]
Agency Managing Surface Rights:		Percent
<input type="checkbox"/> BLM		[]
<input type="checkbox"/> U.S. Forest Service		[]
<input type="checkbox"/> Other (specify) []		[]
Total		[]
<input type="checkbox"/> Other (specify) []		[]
TOTAL		[]

(5) Type of Exploration (Check appropriate boxes)

- Prospecting
- Mapping
- Geochemistry
- Geophysics
- Drilling
- Underground Exploration
- Pitting and Trenching
- Other (specify) []

(5) Type of Exploration (Check appropriate boxes)

- Prospecting
- Mapping
- Geochemistry
- Geophysics
- Drilling
- Underground Exploration
- Pitting and Trenching
- Other (specify) []

(6) Drilling and Pitting and Trenching (Please identify your REPORTING UNIT.)

Type (1)	Code	<input type="radio"/> Feet	<input type="radio"/> Meters	<input type="radio"/> Short tons	<input type="radio"/> Metric tons
		Distance (2)		Tons (3)	
Diamond	01	[]			
Churn	02	[]			
Rotary/RVC	03	[]			

(6) Drilling and Pitting and Trenching (Please identify your REPORTING UNIT.)

Type (1)	Code	<input type="radio"/> Feet	<input type="radio"/> Meters	<input type="radio"/> Short tons	<input type="radio"/> Metric tons
		Distance (2)		Tons (3)	
Diamond	01	[]			
Churn	02	[]			
Rotary/RVC	03	[]			

Percussion	04	<input type="text"/>	<input type="text"/>
Other drilling (specify)		<input type="text"/>	
	05	<input type="text"/>	
Pitting & trenching	08	<input type="text"/>	<input type="text"/>

Percussion	04	<input type="text"/>	<input type="text"/>
Other drilling (specify)		<input type="text"/>	
	05	<input type="text"/>	
Pitting & trenching	08	<input type="text"/>	<input type="text"/>

Exploration Operation No. 3

(1) Project Name	<input type="text"/>	State Code <input type="text"/> County Code <input type="text"/> <input type="text"/> (Primary commodity) <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> (Others)
(2) Location:		
State	Not specified <input type="text"/>	
County	<input type="text"/>	
Section	<input type="text"/>	
Township	<input type="text"/>	
Range	<input type="text"/>	
(3) Major commodities for which exploration work was done.	<input type="text"/>	

Exploration Operation No. 4

(1) Project Name	<input type="text"/>	State Code <input type="text"/> County Code <input type="text"/> <input type="text"/> (Primary commodity) <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> (Others)
(2) Location:		
State	Not specified <input type="text"/>	
County	<input type="text"/>	
Section	<input type="text"/>	
Township	<input type="text"/>	
Range	<input type="text"/>	
(3) Major commodities for which exploration work was done.	<input type="text"/>	

(4) Land Classification. (Check all that apply and give percentage.)

	Percent										
<input type="checkbox"/> Private	<input type="text"/>										
<input type="checkbox"/> State or Local	<input type="text"/>										
<input type="checkbox"/> Federal: Public Domain	<input type="text"/>										
<input type="checkbox"/> Acquired	<input type="text"/>										
<input type="checkbox"/> Other (specify) <input type="text"/>	<input type="text"/>										
<table border="1"> <thead> <tr> <th>Agency Managing Surface Rights:</th> <th>Percent</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/> BLM</td> <td><input type="text"/></td> </tr> <tr> <td><input type="checkbox"/> U.S. Forest Service</td> <td><input type="text"/></td> </tr> <tr> <td><input type="checkbox"/> Other (specify) <input type="text"/></td> <td><input type="text"/></td> </tr> <tr> <td>Total</td> <td><input type="text"/></td> </tr> </tbody> </table>		Agency Managing Surface Rights:	Percent	<input type="checkbox"/> BLM	<input type="text"/>	<input type="checkbox"/> U.S. Forest Service	<input type="text"/>	<input type="checkbox"/> Other (specify) <input type="text"/>	<input type="text"/>	Total	<input type="text"/>
Agency Managing Surface Rights:	Percent										
<input type="checkbox"/> BLM	<input type="text"/>										
<input type="checkbox"/> U.S. Forest Service	<input type="text"/>										
<input type="checkbox"/> Other (specify) <input type="text"/>	<input type="text"/>										
Total	<input type="text"/>										
<input type="checkbox"/> Other (specify) <input type="text"/>	<input type="text"/>										
TOTAL	<input type="text"/>										

(4) Land Classification. (Check all that apply and give percentage.)

	Percent										
<input type="checkbox"/> Private	<input type="text"/>										
<input type="checkbox"/> State or Local	<input type="text"/>										
<input type="checkbox"/> Federal: Public Domain	<input type="text"/>										
<input type="checkbox"/> Acquired	<input type="text"/>										
<input type="checkbox"/> Other (specify) <input type="text"/>	<input type="text"/>										
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Agency Managing Surface Rights:	Percent										
<input type="checkbox"/> BLM	<input type="text"/>										
<input type="checkbox"/> U.S. Forest Service	<input type="text"/>										
<input type="checkbox"/> Other (specify) <input type="text"/>	<input type="text"/>										
Total	<input type="text"/>										
<input type="checkbox"/> Other (specify) <input type="text"/>	<input type="text"/>										
TOTAL	<input type="text"/>										

(5) Type of Exploration (Check appropriate boxes)

<input type="checkbox"/> Prospecting	<input type="checkbox"/> Drilling
<input type="checkbox"/> Mapping	<input type="checkbox"/> Underground Exploration
<input type="checkbox"/> Geochemistry	<input type="checkbox"/> Pitting and Trenching
<input type="checkbox"/> Geophysics	<input type="checkbox"/> Other (specify) <input type="text"/>

(5) Type of Exploration (Check appropriate boxes)

<input type="checkbox"/> Prospecting	<input type="checkbox"/> Drilling
<input type="checkbox"/> Mapping	<input type="checkbox"/> Underground Exploration
<input type="checkbox"/> Geochemistry	<input type="checkbox"/> Pitting and Trenching
<input type="checkbox"/> Geophysics	<input type="checkbox"/> Other (specify) <input type="text"/>

(6) Drilling and Pitting and Trenching (Please identify your REPORTING UNIT.)

Type (1)	Code	Distance		Tons	
		<input type="radio"/> Feet	<input type="radio"/> Meters	<input type="radio"/> Short tons	<input type="radio"/> Metric tons
Diamond	01	<input type="text"/>			
Churn	02	<input type="text"/>			
Rotary/RVC	03	<input type="text"/>			
Percussion	04	<input type="text"/>			
Other drilling (specify)		<input type="text"/>			
	05	<input type="text"/>			
Pitting & trenching	08	<input type="text"/>		<input type="text"/>	

(6) Drilling and Pitting and Trenching (Please identify your REPORTING UNIT.)

Type (1)	Code	Distance		Tons	
		<input type="radio"/> Feet	<input type="radio"/> Meters	<input type="radio"/> Short tons	<input type="radio"/> Metric tons
Diamond	01	<input type="text"/>			
Churn	02	<input type="text"/>			
Rotary/RVC	03	<input type="text"/>			
Percussion	04	<input type="text"/>			
Other drilling (specify)		<input type="text"/>			
	05	<input type="text"/>			
Pitting & trenching	08	<input type="text"/>		<input type="text"/>	

Exploration Operation No. 5

(1) Project Name	<input type="text"/>
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Exploration Operation No. 6

(1) Project Name	<input type="text"/>
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(2) Location:

State	Not specified <input type="button" value="v"/>	State Code	<input type="text"/>
County	<input type="text"/>	County Code	<input type="text"/>
Section	<input type="text"/>		
Township	<input type="text"/>		
Range	<input type="text"/>		

(3) Major commodities for which exploration work was done.

(Primary commodity)

(Others)

(2) Location:

State	Not specified <input type="button" value="v"/>	State Code	<input type="text"/>
County	<input type="text"/>	County Code	<input type="text"/>
Section	<input type="text"/>		
Township	<input type="text"/>		
Range	<input type="text"/>		

(3) Major commodities for which exploration work was done.

(Primary commodity)

(Others)

(4) Land Classification. (Check all that apply and give percentage.)

	Percent
<input type="checkbox"/> Private	<input type="text"/>
<input type="checkbox"/> State or Local	<input type="text"/>
<input type="checkbox"/> Federal: Public Domain	<input type="text"/>
<input type="checkbox"/> Acquired	<input type="text"/>
<input type="checkbox"/> Other (specify) <input type="text"/>	<input type="text"/>

Agency Managing Surface Rights:	Percent
<input type="checkbox"/> BLM	<input type="text"/>
<input type="checkbox"/> U.S. Forest Service	<input type="text"/>
<input type="checkbox"/> Other (specify) <input type="text"/>	<input type="text"/>
Total	<input type="text"/>

Other (specify)

TOTAL

(4) Land Classification. (Check all that apply and give percentage.)

	Percent
<input type="checkbox"/> Private	<input type="text"/>
<input type="checkbox"/> State or Local	<input type="text"/>
<input type="checkbox"/> Federal: Public Domain	<input type="text"/>
<input type="checkbox"/> Acquired	<input type="text"/>
<input type="checkbox"/> Other (specify) <input type="text"/>	<input type="text"/>

Agency Managing Surface Rights:	Percent
<input type="checkbox"/> BLM	<input type="text"/>
<input type="checkbox"/> U.S. Forest Service	<input type="text"/>
<input type="checkbox"/> Other (specify) <input type="text"/>	<input type="text"/>
Total	<input type="text"/>

Other (specify)

TOTAL

(5) Type of Exploration (Check appropriate boxes)

Prospecting Drilling

Mapping Underground Exploration

Geochemistry Pitting and Trenching

Geophysics Other (specify)

(5) Type of Exploration (Check appropriate boxes)

Prospecting Drilling

Mapping Underground Exploration

Geochemistry Pitting and Trenching

Geophysics Other (specify)

(6) Drilling and Pitting and Trenching (Please identify your REPORTING UNIT.)

Type (1)	Code	<input type="radio"/> Feet	<input type="radio"/> Meters	<input type="radio"/> Short tons	<input type="radio"/> Metric tons
		Distance (2)		Tons (3)	
Diamond	01	<input type="text"/>			
Churn	02	<input type="text"/>			
Rotary/RVC	03	<input type="text"/>			
Percussion	04	<input type="text"/>			
Other drilling (specify) <input type="text"/>	05	<input type="text"/>			
Pitting & trenching	08	<input type="text"/>		<input type="text"/>	

(6) Drilling and Pitting and Trenching (Please identify your REPORTING UNIT.)

Type (1)	Code	<input type="radio"/> Feet	<input type="radio"/> Meters	<input type="radio"/> Short tons	<input type="radio"/> Metric tons
		Distance (2)		Tons (3)	
Diamond	01	<input type="text"/>			
Churn	02	<input type="text"/>			
Rotary/RVC	03	<input type="text"/>			
Percussion	04	<input type="text"/>			
Other drilling (specify) <input type="text"/>	05	<input type="text"/>			
Pitting & trenching	08	<input type="text"/>		<input type="text"/>	

Remarks: (up to 1,000 characters)

Person to be contacted regarding this report.

First name: Last name:

Title:

E-mail:

Address:

City:

State / Territory / Province: Not specified

ZIP Code / Postal Code:

Country: USA

Phone: - - Ext

May tabulations be published which could indirectly reveal the data reported above?

(1) Yes (2) No

Data Source Code

Date of Receipt (yyyymmdd)

Metal/Non-Metal Code

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