USGS Form 9-4000-A (rev. 9/23/2013)



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

MINE, DEVELOPMENT, AND MINERAL EXPLORATION SUPPLEMENT

OMB Control No. 1028-0060 Approval expires: 6/30/2016

INDIVIDUAL COMPANY DATA - PROPRIETARY

GENERAL	INSTRU	JCTI	ONS

SPECIFIC INSTRUCTIONS

Please complete all applicable portions of this form

Respondent ID:	Reporting Year: 2015 Base Canvass: C78				
Name and location of Name Address City or town County State / Territory / Province ZIP Code / Postal Cod Country Section Township Range Give name and address	USGSxxx AKRON ADAMS Ohio V	Name and locatio Operation name: Address: City: County: State: Zip Code: Controlling Company: Company ID:	n of mine (CMS) US GEOLOGICAL SURVEY 12201 SUNRISE VALLEY DR MS 985 RESTON ADAMS VIRGINIA 20192 US GEOLOGICAL SURVEY2a 33333	Name and location Operation name: City: County: State: Controlling Company: Company ID:	n of mine (RCF) USGS AKRON ADAMS OHIO US GEOLOGICAL SURVEY2 33333

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

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.										
□ (01) Pounds □ (02) Short tons □ (03) Long tons			(04) Cubic yards	(05) Gallons						
(06) Kilograms (07) Metric tons (08) Cubic mete		ers	(09) Liters	🗌 (10) Othe	er (specify)					
ltem			Code	Underground mining (2)		Code	Surface Mining (3)			
Crude ore mined			201			211				
Crude ore processed			202			212				
Crude ore shipped without	t processing		203			213				
Mine operation waste mat Stripped material	erials:					214				

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Other waste material	205	215	
Other (specify)	206	216	

	Official use only										
DS	Com. code (SIC Code)	QU	QC	Q	VC	V					
~		~	⊖Yes ⊖No		○ Yes ○ No						
~		~	◯Yes ◯No		○ Yes ○ No						
		~	◯Yes ◯No		○ Yes ○ No						
~		>	◯Yes ◯No		🔿 Yes 🔿 No						
~		>	◯Yes ◯No		○ Yes ○ No						
~		>	◯Yes ◯No		🔿 Yes 🔿 No						
~		>	⊖Yes ⊖No		○ Yes ○ No						
×		<	⊖Yes⊖No		○ Yes ○ No						
×		>	⊖Yes ⊖No		🔾 Yes 🔾 No						

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.

		◯ Feet ◯ Meters	○ Short tons ○ Metric tons
Type of activity (1)	Code	Distance (2)	Ore and waste removed (3)
Shaft and winze shinking	302		
Raising	303		
Drifting, crosscutting, or tunneling	304		
Stripping	305		
Solution mining: Salt	306		
Sulfur	307		
Other (specify)	308		
	309		
Well drilling	310		
Other (specify)	311		

4. Mining methods during year.		
For Surface and Underground, enter percentages of your total activities (based on devoted to the following mining operations.	tonnage or tonn	age equivalent)
Method (1)	Code	Percent (2)
Surface: Open pit, quarry, or strip mine: Mechanical loading and hauling Preceded by drilling and blasting	411	
NOT Preceded by drilling and blasting	412	
Other loading and hauling	413	
Other surface mining: Dredging	414	
Mechanical excavation and nonfloat washing	415	
Pumping from wells, ponds, or stations	416	
Leaching (specify)	417	
Other (specify)	418	
Total	419	
Underground: Stoping: Cut-and-fill	421	
Naturally supported rooms (open stoping)	422	
Artificially supported (specify)	423	

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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 Ex	ploratior	Division, if different from Nearest city or town	the name and location of mine.								
5 Exploration for miner	als by lo	ocation major commod	ty, and type of drilling during year.								
		Exploration Operation						Exploration O	peration N	o. 2	
(1) Project				(1)	Project						
(1) Project Name (2) Location:				Nai	me						
		~	State Code	(2)	Location: State	Not spe	aified			State Code	
State Not spe	ecified	V	County Code	┣—		Not spe	ecineu			County Code	
County					County						
Section					Section						
Township					Township						
Range			(Primary commodity)		Range					(Primary commodity)	
(3) Major commodities for exploration work was	or which s done.			(3)	Major comm exploration	work was	or which s done.		Г		
		^	(Others)					^		(Others)	
		\checkmark						\sim			
(4) Land Classification. (Check a	ll that apply and give per	centage.)	(4)	Land Classif	ication. (Check a	ll that apply and	give percer		
			Percent							Percent	
State or Local					State o	or Local					
Federal: Public	Domain				Federa	al: Public	Domain				
Acq	uired					Acq	uired				
Othe	er <i>(spec</i>	ify)				Othe	er <i>(spec</i>	ify)			
Agency Manag	ging Sur	face Rights:	Percent		Ageno	cy Manag	ging Surf	ace Rights:		Percent	
BLM					□в	_M					
U.S. Fores	t Servic	e			□ U.	.S. Fores	t Service	9			
Other (spe	cify)					Other (specify)					
Total						Total					
Other (specify)					Other	(specify)					
TOTAL					то	TAL					
(5) Type of Exploration (Check a	ppropriate boxes)		(5)	Type of Expl	oration (Check a	opropriate boxes)		
Prospecting		Drilling			🗌 Pros	specting		Drilling			
Mapping		Underground Expl	oration		🗌 Мар	ping		Undergrou	und Explora	ation	
Geochemistr	v	Pitting and Trench	ing		🗌 Geo	chemistr	у	Pitting and	d Trenching	9	
Geophysics		Other (specify)			🗌 Geo	physics		Other (spe	ecify)		
(6) Drilling and Pitting ar			REPORTING UNIT.)	(6)						REPORTING UNIT.)	
Туре		○ Feet ○ Meters	○ Short tons ○ Metric tons		Type			◯ Feet ◯) Meters	○ Short tons ○ Metric tons	
(1)	Code	Distance (2)	Tons (3)		Type (1)		Code	Distano (2)	e	Tons (3)	
Diamond	01			Dia	mond		01				
Churn	02			Chu	urn		02				
Rotary/RVC	03			Rot	tary/RVC		03				
										l	

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Percussion	04		Percussion	04	
Other drilling (specify)	05		Other drilling (specify)	05	
Pitting & trenching	08		Pitting & trenching	08	

Exploration Operation No. 3				Exploration Operation No. 4						
(1) Project Name			(1) F	Project						
Name (2) Location:		=		(2) Location:						
State Not specified	ified V State Code				Not spe	ecified	ified 🗸		State Code	
County		County Code		County					County Code	
Section				Section						
Township				Township						
Range				Range						
(3) Major commodities for which		(Primary commodity)	(3) Major commodities for which			(Primary commodity)				
exploration work was done.			exploration work was done.							
	^	(Othere)								
	\checkmark	(Others)	(Others) (Others)					(Others)		
(4) Land Classification. (Check all that	at apply and give percer		(4) L	and Classif	ication. (0	Check al	l that apply and g	ive percei		
Private		Percent							Percent	
State or Local			Private State or Local							
Federal: Public Domain				_	al: Public	Domain				
Other (specify)				Other (specify)						
Agency Managing Surface Rights: Percent		Agency Managing Surface Rights:					Percent			
			BLM							
U.S. Forest Service		U.S. Fore		.S. Forest	Service					
Other (specify)			Other (spe		ther (spec	ecify)				
Total					Total					
Other (specify)				Other	(specify)					
TOTAL			TOTAL							
(5) Type of Exploration (Check appropriate boxes) (5) Ty				(5) Type of Exploration (Check appropriate boxes)						
Prospecting	Drilling		Prospecting Drilling							
Mapping Underground Exploration			Mapping Underground Exploration							
Geochemistry	Pitting and Trenching	g	Geochemistry Pitting and Trenching				g			
Geophysics Other (specify)			Geophysics Other (specify)							
(6) Drilling and Pitting and Trenching	g (Please identify your R	REPORTING UNIT.)	(6) [Drilling and	Pitting an	d Trenc	ning <i>(Please iden</i>	tify your F	REPORTING UNIT.)	
Type Coult	○ Feet ○ Meters	Short tons O Metric tons		Туре		Code	○ Feet ○	Meters	○ Short tons ○ Metric tons	
Type (1) Code	Distance (2)	Tons (3)		Type (1)		Code	Distance (2)	9	Tons (3)	
Diamond 01			Diar	nond		01				
Churn 02			Churn			02				
Rotary/RVC 03			Rotary/RVC		03					
Percussion 04			Percussion			04				
Other drilling (specify)				er drilling						
(specity) 05			(spe	(specify)		05				
Pitting & trenching 08			Pitti	ng & trenchi	ing	08				
		L	<u> </u>							

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-	-			-	-	-	

Exploration Operation No. 5	Exploration Operation No. 6			
(1) Project Name	(1) Project Name			
· · · · · · · · · · · · · · · · · · ·	la,			

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(2) Location: (2) Location: State Not specified V State Code						
	State Code					
County County Code County Code	County Code					
Section Section						
Township						
Range Range						
(3) Major commodities for which exploration work was done. (Primary commodity) (3) Major commodities for which exploration work was done.	(Primary commodity)					
(Others)	(Others)					
	(4) Land Classification. (Check all that apply and give percentage.)					
Percent Private	Percent					
State or Local						
Federal: Public Domain						
Agency Managing Surface Rights: Percent Agency Managing Surface Rights:	Percent					
U.S. Forest Service						
Other (specify) Other (specify)						
Total Total						
TOTAL						
(5) Type of Exploration (Check appropriate boxes) (5) Type of Exploration (Check appropriate boxes)						
Prospecting Drilling Prospecting Drilling	Prospecting Drilling					
Mapping Underground Exploration Mapping Underground Exploration	oloration					
□ Geochemistry □ Pitting and Trenching □ Geochemistry □ Pitting and Trenching	hing					
Geophysics Other (specify)	Geophysics Other (specify)					
(6) Drilling and Pitting and Trenching (Please identify your REPORTING UNIT.) (6) Drilling and Pitting and Trenching (Please identify your REPORTING UNIT.)	ur REPORTING UNIT.)					
Type Codo Feet O Meters O Short tons O Metric tons	s O Short tons O Metric tons					
(1) Code Distance Tons (1) Code Distance (2) (3) (1) Code Distance (2) (2)	Tons (3)					
Diamond 01 Diamond 01 Diamond 01						
Churn 02 Churn 02						
Rotary/RVC 03 C Rotary/RVC 03 C						
Percussion 04 Carl Percussion 04 Carl						
Other drilling (chooff d)						
(specify) (specify) 05 05 05						
Pitting & trenching 08 Image: Constraint of the second se						

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Remarks: (up to 1,000 characters)

Person to be contacted regarding this report.
First name:
Last name:
Title:
F-mail:

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
 O
 Date of Receipt
 20160621
 (yyyymmdd)
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 Please specify
 V

Previous screen Review before submission

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