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



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

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** 

Please complete all applicable portions of this form

SPECIFIC INSTRUCTIONS

Respondent ID: Reporting Year: 2015	Base Canvass: C78								
Name and location of mine (MIForms)			Name and locatio	•	•		on of mine (RCF)		
Name USGSxxx			Operation name:		GICAL SURVEY RISE VALLEY DR MS	Operation name: City:	USGS AKRON		
Address			Address:	985		County:	ADAMS		
City or town AKRON			City:	RESTON		State:	OHIO		
County			County: State:	ADAMS VIRGINIA		Controlling Company:	US GEOLOGICA SURVEY2		
State / Territory / Province Ohio				20192		Company ID:	33333		
ZIP Code / Postal Code			Zip Code: Controlling Company:	US GEOLOG	, ,				
Country USA 🗸			Company ID:	33333					
Section									
Township									
Range									
Give name and address of operator if operated by	by someone else durina vea	ar							
	3,		^						
			<u> </u>						
1. Production status, activity, and type of ope	eration during year. (check	k all that a	apply)						
STATUS:	ACTIVITY:				TYPE OF OPERATION	N:			
(1) Active	(1) Assessment	•			(1) Open pit, quarr	ry, or strip mine			
(2) Idle entire year	(2) Developmen		,		(2) Dredging	(2) Dredging (3) Placer			
(3) Abandoned (Date ) (4) Sold or Transferred (Date	(3) Exploration ( (4) Shipping from				(4) Well or pumping operation				
(4) Sold of Transferred (Date	(4) Shipping nor				(4) Well of purifying operation				
(a) Suite (speelily)	(6) Leaching (sp				☐ (6) In-situ				
Number of mines	(7) Extraction (s	pecify)			(7) Underground				
realiser of fillines	(8) Other (specif	fy)			(8) Offshore				
					(9) Other (specify)				
2. Crude material mined or handled during ye	ear.								
Report the total quantity of crude ore mined, Please identify your <b>REPORTING UNIT</b> by cl	reated and shipped, and w necking the appropriate box	aste mate	erial from production op	perations. Crude	ore covers both LIQUII	D and SOLID MATERIA	ALS.		
$\square$ (01) Pounds $\square$ (02) Short ton:	s (03) Long tons	3	(04) Cubic yards	s 🗌 (05	) Gallons				
(02) Silograms (02) Metric tor	, , ,		(09) Liters	•	) Other (specify)				
(et) means to		1	r		(0,000)				
Item		Code		und 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				
<del>  ''</del>		+	<del>                                     </del>		<del>-   -  </del>				

Other waste	material		205	5				215			
Other (specify)				3			]	216			
DS	Com. code (SIC Code)	QU	QC	Official u	use only	Q		V	<u>,                                      </u>		V
	Com. code (Sic Code)	QU	○ Yes			Q	_	○ Yes			<u> </u>
			O Yes					O Yes			
			O Yes				<del>_</del>	O Yes			
			O Yes								
					L			O Yes		_⊨	
		+=+	○Yes		L			O Yes			
<u> </u>		<u> </u>	○Yes		L			O Yes			
		<u> </u>	○Yes		L			O Yes			
			○Yes		L			O Yes			
~		~	○Yes	○ No				O Yes	○ No		
"DEVELO your comp	PMENT" is work performed in preparany. Please identify your REPORT  Type of activity (1)	aring a proved ore ING UNIT.	body for mini	ng. Includ	de CONTR	ACT WORK  Feet  Dista	O Mete		O Short	t tons O Mond waste ren	Metric tons
Shaft and winz				302		(-			Γ	(0)	
Raising				303			$\equiv$				
<u> </u>	cutting, or tunneling			304			=				
Stripping				305							
Solution mining	g:			306							_
Salt							_				
Sulfur Other (speci	if <sub>V</sub> )			307							
Other (speci	19)			308							
				309							
Well drilling				310							
Other (specify)				311					Γ		
4. Mining met	hods during year.										
	e and Underground, enter percentage the following mining operations.	ges of your total ac	ctivities (based	d on tonn	age or tonr	nage equivale	ent)				
	Method (1)				Code	Percen	t				
Mechanica	arry, or strip mine: I loading and hauling d by drilling and blasting				411		1				
	ceded by drilling and blasting				412		$\overline{\Box}$				
	ing and hauling				413						
Other surface Dredging	e mining:				414		$\exists$				
	I excavation and nonfloat washing				415						
Pumping from wells, ponds, or stations					416						
Leaching (sp	ecify)				417						
Other (special	5y)				418						
Total					419		1				
Underground: Stoping:					'''		$\Box$				
Cut-and-fil	supported rooms (open stoping)				421		+				
I . Tatarany a	sitos issino (opon stoping)				422		1 I				

Artificially supported (specify)

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

			EXPLO	RAT	ION						
Name and address of Exploration Division, if different from the name and location of mine.  Name											
Exploration for minerals by location, major commodity, and type of drilling during year.      Exploration Operation No. 1								Exploration Or	eration N	lo. 2	
(1) Project			]	1 (1)	Project					···-	
Name				Nár	me						
(2) Location:	161 1		State Code	e (2) Location: State Not specified						State Code	
State Not spe	есттеа		County Code	⊪	County	Not spec	ineu			County Code	
County			-		Section						
Section Township			-	Ш⊢	Township						
			-	Ш⊢	Range						
Range (3) Major commodities for	or which		(Primary commodity)	(3)		modities for	which			(Primary commodity)	
exploration work was					exploration	n work was	done.				
				Ш				^			
			(Others)	Ш						(Others)	
				Ш							
(4) Land Classification. (4)	Check a	Il that apply and give pe	rcentage.)	(4) [	_and Classi	ification. (C	heck a	Il that apply and o	give percer	ntage.)	
			Percent			•				Percent	
☐ Private				<b>∐</b>	☐ Privat	te					
☐ State or Local				<b>∐</b>	☐ State	or Local					
Federal: Public	Federal: Public Domain				☐ Federal: Public Domain						
□Acq	uired			╢┈	Acquired						
Othe	er <i>(spec</i>	ify)		<b>∐</b>		Other					
Agency Manag	ging Sur	face Rights:	Percent		Agency Managing Surface Rights: Percent					Percent	
BLM					BLM						
U.S. Fores		e		U.S. Forest Service							
Other (spe	cify)				Other (specify)						
Total				<b>Ⅱ</b>		Total					
☐ Other (specify)					☐ Other	(specify)					
TOTAL				∐∟	TC	OTAL					
(5) Type of Exploration (6	Check a			(5)		,	heck a	opropriate boxes	)		
☐ Prospecting		Drilling				specting		☐ Drilling			
☐ Mapping		Underground Exp				pping		Undergrou			
☐ Geochemistr	у	☐ Pitting and Trenc	ning			ochemistry		☐ Pitting and		g 	
☐ Geophysics		Other (specify)			☐ Geo	ophysics		Other (spe	cify)		
(6) Drilling and Pitting ar	nd Trend	hing (Please identify you	ir REPORTING UNIT.)	(6)	Drilling and	Pitting and	Trenc	hing <i>(Please ider</i>	ntify your F	REPORTING UNIT.)	
Туре	Code Distance Tons		Short tons O Metric tons		Туре			○ Feet ○	Meters	O Short tons O Metric tons	
(1)			$\parallel \parallel$	(1)		Code	Distance I C		Tons (3)		
Diamond	04	(2)	(3)		mond	-+	01	(2)		(3)	
Diamond	01			╢┝─		-+					
Churn	02			Chu			02				
Rotary/RVC	03			Rot	ary/RVC		03				
 	I		I	Ш		I	ı			<b>I</b>	

Percussion 04	1	Percussion 04						
Other drilling		Other drilling						
(specify)		(specify)						
Pitting & trenching 08		Pitting & trenching 08						
·········								
Exploration Operation	No. 3	Exploration Operation No. 4						
(1) Project		(1) Project						
(1) Project Name (2) Location:	State Code	Name (2) Location: State Code						
State Not specified 🗸	County Code	State Not specified County Code						
County	Sound Court	County						
Section		Section						
Township		Township						
Range (3) Major commodities for which	(Primary commodity)	Range (Primary commodity)						
exploration work was done.		exploration work was done.						
^								
<u> </u>	(Others)	(Others)						
(4) Land Classification. (Check all that apply and give perc		(4) Land Classification. (Check all that apply and give percentage.)						
☐ Private	Percent	Percent Private						
☐ State or Local		☐ State or Local						
Federal: Public Domain		Federal: Public Domain						
☐ Acquired		Acquired						
Other (specify)		Other (specify)						
Agency Managing Surface Rights:	Percent	Agency Managing Surface Rights: Percent						
□BLM		□BLM						
U.S. Forest Service		U.S. Forest Service						
Other (specify)		Other (specify)						
Total		Total						
☐ Other (specify)		Other (specify)						
TOTAL		TOTAL						
(5) Type of Exploration (Check appropriate boxes)		(5) Type of Exploration (Check appropriate boxes)						
<ul><li>☐ Prospecting</li><li>☐ Drilling</li><li>☐ Mapping</li><li>☐ Underground Expl</li></ul>	pration	☐ Prospecting ☐ Drilling ☐ Mapping ☐ Underground Exploration						
☐ Geochemistry ☐ Pitting and Trench		☐ Geochemistry ☐ Pitting and Trenching						
☐ 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.)						
○ Feet ○ Meters		○ Feet ○ Meters ○ Short tons ○ Metric tons						
(1) Code Distance	Tons	(1) Code Distance Tons						
(2)	(3)	(2) (3)						
Diamond 01	+	Diamond 01						
Churn 02		Churn 02						
Rotary/RVC 03		Rotary/RVC 03						
Percussion 04		Percussion 04						
Other drilling (specify)		Other drilling (specify)						
05		05						
Pitting & trenching 08		Pitting & trenching 08						
		· · · · · · · · · · · · · · · · · · ·						

Exploration Operation No. 5 Exploration Operation No. 6

(1) Project Name (1) Project Name

(2) Location:			1 1	(2) Loca	ation:			1	
State Not sp	ecified	<u> </u>	State Code			specified	~		State Code
County			County Code	Co	ounty				County Code
Section				ш──	ection				
Township			╣	I ⊫——	wnship				
			┨ ┃	II <del>I</del> ──					
Range (3) Major commodities f	or which		(Primary commodity)	□——	ange or commodities	e for which			(Primary commodity)
exploration work wa	s done.		(Primary commodity)	exp	loration work v	was done.			(Primary commodity)
		<u></u>							
		~	(Others)				~		(Others)
(4) Land Classification.	Check a	ll that apply and give per		(4) Lanc	l Classification	n. (Check a	ll that apply and g	give perce	
<u> </u>			Percent	╟┼					Percent
☐ Private				╟─┼	Private				
☐ State or Local				╙	State or Loca	al			
☐ Federal: Public	Domain			ILL□□	Federal: Pub	lic Domain			
Acc	juired				□а	cquired			
□Oth	er (spec	ify)			□ c	ther (speci	ify)		
Agency Mana			Percent		Agency Mar				Percent
□BLM				$\parallel \parallel$	BLM		<u>~</u>		
U.S. Fores	st Service	2			U.S. For	rest Service	2		
II I <del></del>					Other (s				
Other (spe	city)				<u> </u>				
Total				╙	Tota				
Other (specify)					Other (special	fy)			
TOTAL					TOTAL				
(5) Type of Exploration (	Check a	ppropriate boxes)		(5) Type	of Exploration	n (Check a	ppropriate boxes,	)	
☐ Prospecting		☐ Drilling			☐ Prospectin	ıg	☐ Drilling		
☐ Mapping		☐ Underground Exp	loration				☐ Undergrou	ınd Explo	ration
☐ Geochemistr	v	☐ Pitting and Trench		l	☐ Geochemi	strv	☐ Pitting and		
☐ Geophysics	,	Other (specify)	g	l	☐ Geophysic		Other (spe		·9
l				l ———					
(6) Drilling and Pitting a	nd Trenc	hing (Please identify you		(6) Drilli	ing and Pitting	and Trenc	hing <i>(Please ider</i>	ntify your	REPORTING UNIT.)
Туре		○ Feet ○ Meters	Short tons O Metric tons	ll	Туре		○ Feet ○	Meters	O Short tons O Metric tons
(1)	Code	Distance	Tons	(1)		Code	Distance		Tons
		(2)	(3)			_	(2)		(3)
Diamond	01			Diamon	d	01			
Churn	02			Churn		02			
Rotary/RVC	03			Rotary/l	RVC	03			
Percussion	04			Percuss		04		_	
	04					04			
Other drilling (specify)				Other d					
	05					05			
Pitting & trenching	08			Pitting 8	& trenching	08			
<u> </u>									
Remarks: (up to 1,000 c	haracter	s)							
Tromainer (up to 1,000 o									
				^					
				$\sim$					
Person to be contacted	renardi	ng this report							
First name:	ugarai		Last name:						
Title:	ř								
E-mail:	ř								
Address:	Ť								
City:	ř								
State / Territory / Province	e: [	Not specified							
ZIP Code / Postal Code:	Ė								
Country:	Ī	JSA 🗸							
Phone:			Ext						

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

O (1) Yes (2) No

Data Source Code 0 Date of Receipt 20160621 (yyyymmdd) Metal/Non-Metal Code Please specify V

Previous screen Review before submission

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