

GENERAL INSTRUCTIONS

Please complete and return a separate form for each plant promptly in the enclosed envelope or fax to the above toll-free number. If you need to report more than one operation on this form, please list number of mines in Section 1. If mineral exploration was conducted, complete SECTIONS 1 and 5.

In completing this form, reasonable estimates should be used wherever exact data are not available. Do not report decimals or fractions. Round to the nearest whole number. Please do not make entries in shaded areas. Additional forms are available upon request.

If you have any questions concerning completion of this form, please contact the Mineral Commodities Data Unit, U.S. Geological Survey, 985 National Center, Reston, VA 20192, Telephone (703) 648-7960.

SPECIFIC INSTRUCTIONS

(Please follow these guidelines when completing the report form)

1. Production status, activity, and type of operation during year.

Show activity and production status during year. If more than one item applies, please indicate. If both exploration and development work are performed, check boxes (4) and (5). Show type of operation only if operation is active during year.

2. Crude material mined or handled during year.

Report in this section the total quantity of crude ore mined, treated and/or shipped, and waste material handled from mining operations. Include under crude ore treated both milled and leached material. Include separately under waste material handled, stripped waste and other waste material handled during mine production operations. Stripped waste material for new mine development and mine expansion should be reported in Section 3. Do not include waste material from milling operations. Crude ore covers both liquid and solid materials. Please indicate reporting units.

3. Development for minerals during year.

Development is work performed in preparing a proved ore body for production. Include **CONTRACT WORK** done for you by contracting firms and work done by other units of your company. Under stripping, include only that stripping that is performed for mine development and/or expansion. Stripped waste material resulting from production operations should be reported in Section 2.

4. Mining methods during year.

For surface and underground mining, enter percentages of your total activities (based on tonnage) applicable to your mining operations.

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

Exploration is work performed in searching for mineral deposits. Include **CONTRACT WORK** done for you by contracting firms and other divisions of your company. Complete a separate block for each exploration operation. Additional forms are available upon request.

NOTE: If the Development and Exploration Sections must be completed by other personnel of your company, please forward the complete form to the responsible unit for completion prior to returning the survey form to the U.S. Geological Survey.



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**

Unless authorization is granted in the section above the signature, the data furnished in this report will be treated in confidence by the Department of the Interior, except that they may be disclosed to Federal defense agencies, or to the Congress upon official request for appropriate purposes. Unless objection is made in writing to the USGS, the information furnished in this report may be disclosed to the respondent's State Geological Survey (or similar State Agency) if the State has appropriate safeguards to prevent disclosing company proprietary data.

(Please correct if name or address has changed.) **FACSIMILE NUMBER
1-800-543-0661**

Public reporting burden for this voluntary collection of information is estimated to average 45 MINUTES per response. A Federal agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. Comments regarding this collection of information should be directed to: U.S. Geological Survey, Statistics and Information Section, 988 National Center, Reston, VA 20192. **Please do not mail survey forms to this address.**

Collection of nonfuel minerals information is authorized by Public Law 96-479 and the Defense Production Act. This information is used to support executive policy decisions pertaining to emergency preparedness, national defense, and analyses for minerals legislation and industrial trends. The USGS relies on your voluntary and timely response to assure that its information is complete and accurate.

Name of mine _____ State _____
County _____ Section _____ Township _____ Range _____
Give name and address of operator if operated by someone else during year _____

PLEASE COMPLETE THE FOLLOWING FORM AND RETURN AS SOON AS POSSIBLE. SEE INSTRUCTIONS ON REVERSE SIDE.

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"/> (1) Assessment work only	<input type="checkbox"/> (1) Open pit, quarry, or strip mine
<input type="checkbox"/> (2) Idle entire year	<input type="checkbox"/> (2) Development (Complete Section 3)	<input type="checkbox"/> (2) Dredging
<input type="checkbox"/> (3) Abandoned (Date _____)	<input type="checkbox"/> (3) Exploration (Complete Section 5)	<input type="checkbox"/> (3) Placer
<input type="checkbox"/> (4) Sold or Transferred (Date _____)	<input type="checkbox"/> (4) Shipping from stockpiles	<input type="checkbox"/> (4) Well or pumping operation
<input type="checkbox"/> (5) Other (specify) _____	<input type="checkbox"/> (5) Treating dumps or tailings	<input type="checkbox"/> (5) Solution
	<input type="checkbox"/> (6) Leaching (specify) _____	<input type="checkbox"/> (6) In-situ
Number of mines _____	<input type="checkbox"/> (7) Extraction (specify) _____	<input type="checkbox"/> (7) Underground
	<input type="checkbox"/> (8) Other (specify) _____	<input type="checkbox"/> (8) Offshore
		<input type="checkbox"/> (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 placing an "X" in 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	Code	Surface Mining
		(2)		(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		215	
Other (specify) _____	206		216	

Official use only						
DS	Com. code	QU	QC	Q	VC	V

Official use only						
DS	Com. code	QU	QC	Q	VC	V



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 by placing an "X" in the appropriate box.

Type of activity (1)	Code	Distance (2)		Ore and waste removed (3)	
		<input type="checkbox"/> Feet	<input type="checkbox"/> Meters	<input type="checkbox"/> Short tons	<input type="checkbox"/> Metric tons
Shaft and winze sinking.....	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 tonnage or tonnage equivalent) devoted to the following mining operations.

Method (1)	Code	Percent (2)	Method (1)	Code	Percent (2)
Surface:			Underground:		
Open pit, quarry, or strip mine:			Stoping:		
Mechanical loading and hauling			Cut-and-fill.....	421	
Preceded by drilling and blasting.....	411		Naturally supported rooms (open stoping).....	422	
NOT preceded by drilling and blasting.....	412		Artificially supported (specify).....	423	
Other loading and hauling.....	413		Other (specify).....	424	
Other surface mining:			Caving:		
Dredging.....	414		Block.....	425	
Mechanical excavation and nonfloat washing.....	415		Sub-level.....	426	
Pumping from wells, ponds, or stations.....	416		Other (specify).....	427	
Leaching (specify).....	417		Solution.....	428	
Other (specify).....	418		Leaching (specify).....	429	
			Other (specify).....	430	
Total.....	419	100	Total.....	431	100

EXPLORATION

Name and address of Exploration Division, if different from the address imprint.

Name _____ Nearest city or town _____ State _____

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

Exploration Operation No. 1				Exploration Operation No. 2			
(1) Project Name _____		Code _____		(1) Project Name _____		Code _____	
(2) Location:		U.S. Geological Survey Office Use		(2) Location:		U.S. Geological Survey Office Use	
State _____				State _____			
County _____				County _____			
Section _____				Section _____			
Township _____				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.)				(4) Land Classification. (Check all that apply and give percentage.)			
<input type="checkbox"/> Private.....		Percent _____		<input type="checkbox"/> Private.....		Percent _____	
<input type="checkbox"/> State or Local.....		_____		<input type="checkbox"/> State or Local.....		_____	
<input type="checkbox"/> Federal: Public Domain.....		_____		<input type="checkbox"/> 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.....		100		Total.....		100	
<input type="checkbox"/> Other (specify) _____		_____		<input type="checkbox"/> Other (specify) _____		_____	
TOTAL.....		100		TOTAL.....		100	
(5) Type of Exploration (Check appropriate boxes)				(5) Type of Exploration (Check appropriate boxes)			
<input type="checkbox"/> Prospecting		<input type="checkbox"/> Drilling		<input type="checkbox"/> Prospecting		<input type="checkbox"/> Drilling	
<input type="checkbox"/> Mapping		<input type="checkbox"/> Underground Exploration		<input type="checkbox"/> Mapping		<input type="checkbox"/> Underground Exploration	
<input type="checkbox"/> Geochemistry		<input type="checkbox"/> Pitting and Trenching		<input type="checkbox"/> Geochemistry		<input type="checkbox"/> Pitting and Trenching	
<input type="checkbox"/> Geophysics		<input type="checkbox"/> Other (specify) _____		<input type="checkbox"/> Geophysics		<input type="checkbox"/> Other (specify) _____	
(6) Drilling and Pitting and Trenching (Please identify your REPORTING UNIT by placing an "X" in the appropriate box.)				(6) Drilling and Pitting and Trenching (Please identify your REPORTING UNIT by placing an "X" in the appropriate box.)			
Type (1)	Code	<input type="checkbox"/> Feet <input type="checkbox"/> Meters	<input type="checkbox"/> Short tons <input type="checkbox"/> Metric tons	Type (1)	Code	<input type="checkbox"/> Feet <input type="checkbox"/> Meters	<input type="checkbox"/> Short tons <input type="checkbox"/> Metric tons
		Distance (2)	Tons (3)			Distance (2)	Tons (3)
Diamond.....	01			Diamond.....	01		
Churn.....	02			Churn.....	02		
Rotary/RVC.....	03			Rotary/RVC.....	03		
Percussion.....	04			Percussion.....	04		
Other drilling (specify) _____	05			Other drilling (specify) _____	05		
Pitting & trenching	08			Pitting & trenching	08		
Name of person to be contacted regarding this report _____				Tel. area code _____ No. _____ Ext. _____			
Address No. Street _____ City _____				State _____ ZIP Code _____			
May tabulations be published which could indirectly reveal the data reported above? <input type="checkbox"/> (1) Yes <input type="checkbox"/> (2) No							
Signature _____				Title _____		Date _____	