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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.

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.



(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:

- ☐ (1) Active
☐ (2) Idle entire year
☐ (3) Abandoned (Date _____)
☐ (4) Sold or Transferred (Date _____)
☐ (5) Other (specify) _____

Number of mines _____

ACTIVITY:

- ☐ (1) Assessment work only
☐ (2) Development (Complete Section 3)
☐ (3) Exploration (Complete Section 5)
☐ (4) Shipping from stockpiles
☐ (5) Treating dumps or tailings
☐ (6) Leaching (specify) _____
☐ (7) Extraction (specify) _____
☐ (8) Other (specify) _____

TYPE OF OPERATION:

- ☐ (1) Open pit, quarry, or strip mine
☐ (2) Dredging
☐ (3) Placer
☐ (4) Well or pumping operation
☐ (5) Solution
☐ (6) In-situ
☐ (7) Underground
☐ (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 placing an "X" in the appropriate box.

- ☐ (01) Pounds ☐ (02) Short tons ☐ (03) Long tons ☐ (04) Cubic yards ☐ (05) Gallons
☐ (06) Kilograms ☐ (07) Metric tons ☐ (08) Cubic meters ☐ (09) Liters ☐ (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		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

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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	☐ Feet ☐ Meters	☐ Short tons ☐ Metric tons
		Distance (2)	Ore and waste removed (3)
Shaft and winze sinking.....	302		
Raising.....	303		
Drifting, crosscutting, or tunneling.....	304		
Stripping.....	305		
Solution mining: Salt.....	306		
Sulfur.....	307		
Other <i>(specify)</i> 	308		
	309		
Well drilling.....	310		
Other <i>(specify)</i> 	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	
			Artificially supported <i>(specify)</i> 	423	
NOT preceded by drilling and blasting.....	412		Other <i>(specify)</i> 	424	
Other loading and hauling.....	413				
			Caving:		
Other surface mining:			Block.....	425	
Dredging.....	414		Sub-level.....	426	
Mechanical excavation and nonfloat washing.....	415		Other <i>(specify)</i> 	427	
Pumping from wells, ponds, or stations.....	416		Solution.....	428	
Leaching <i>(specify)</i> 	417		Leaching <i>(specify)</i> 	429	
			Other <i>(specify)</i> 	430	
Other <i>(specify)</i> 	418				
			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

(1) Project Name _____

(2) Location:
State _____
County _____
Section _____
Township _____
Range _____

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

Code

U.S. Geological Survey Office Use

(Primary commodity)

(Others)

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

☐ Private.....

☐ State or Local.....

☐ Federal: Public Domain.....

Acquired.....

Other *(specify)* _____

Agency Managing Surface Rights: _____

BLM.....

U.S. Forest Service.....

Other *(specify)* _____

Total.....

☐ Other *(specify)* _____

TOTAL.....

Percent

100

100

(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 by placing an "X" in appropriate box.)*

Type (1)	Code	☐ Feet ☐ Meters	☐ Short tons ☐ Metric tons
		Distance (2)	Tons (3)
Diamond.....	01		
Churn.....	02		
Rotary/RVC.....	03		
Percussion.....	04		
Other drilling <i>(specify)</i> _____	05		
Pitting & trenching	08		

Exploration Operation No. 2

(1) Project Name _____

(2) Location:
State _____
County _____
Section _____
Township _____
Range _____

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

Code

U.S. Geological Survey Office Use

(Primary commodity)

(Others)

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

☐ Private.....

☐ State or Local.....

☐ Federal: Public Domain.....

Acquired.....

Other *(specify)* _____

Agency Managing Surface Rights: _____

BLM.....

U.S. Forest Service.....

Other *(specify)* _____

Total.....

☐ Other *(specify)* _____

TOTAL.....

Percent

100

100

(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 by placing an "X" in appropriate box.)*

Type (1)	Code	☐ Feet ☐ Meters	☐ Short tons ☐ Metric tons
		Distance (2)	Tons (3)
Diamond.....	01		
Churn.....	02		
Rotary/RVC.....	03		
Percussion.....	04		
Other drilling <i>(specify)</i> _____	05		
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? ☐ (1) Yes ☐ (2) No

Signature

Title

Date

OVER