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Energy, Minerals and Natural Resources Department

## 2011 AND 2012 ANNUAL REPORT OF THE MINING ACT RECLAMATION PROGRAM TO THE NEW MEXICO MINING COMMISSION



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#### **Cover Photo Information**

The cover photo was taken at the ASARCO Deming Mill site located in Luna County. The photograph depicts the reclaimed tailing impoundment and application of straw mulch to the site to promote revegetation and reduce erosion. The impoundment is now in post-reclamation monitoring status which will last a minimum of 12 years and include: erosion and stability monitoring and revegetation monitoring.

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#### 1. Executive Summary

This annual report summarizes activities regulated by, and related to, the Mining Act Reclamation Program ("MARP") of the New Mexico Mining and Minerals Division ("MMD"). Part 13 of the New Mexico Mining Act Rules (the "Rules") requires an annual report be provided to the New Mexico Mining Commission. The annual report is to contain a general description of mining operations, reclamation practices, proposed rule changes and production figures for the state.

This report identifies activities related to the permitting and regulation of mines and mineral exploration under the Mining Act for the two-year time frame of 2011 and 2012. This report is set up a little differently from past years' reports. As a means of providing current, up-to-date information to the Mining Commission, in this report we provide production and reclamation statistics for both the 2011 and 2012 calendar years. In past reports this information was included for just one year. This information is provided to us in annual reports, submitted by our mine operators, in the spring of each calendar year. The information provided covers the previous calendar year. The next annual report, 2013, we will go back to reporting information for one year.

This report also provides tables identifying all mining and exploration operations that have obtained a permit, or submitted a permit application, under MARP since its inception in 1994.

This report includes:

- Production figures for New Mexico mines active during the 2011 and 2012 calendar years;
- A description of reclamation activities and practices related to specific mines in the State of New Mexico;
- A description and summary of exploration and mine permitting activities for the 2011 and 2012 calendar years;
- Summary of reclaimed and disturbed acreage for 2011 and 2012;
- An explanation of a change to the sunset date within the Rules;
- Summary of financial assurance amounts and instruments for each approved mine site.

#### 2. General Description of Mining Operations

#### Permit Types

Mining operations in New Mexico are designed by the following terminology:

- <u>Minimal Impact Mining Operations</u> are small extractive operations that are less than 10 acres in size and can be designated as either existing or new operations. Existing operations are those that operated between January 1, 1970, and June 18, 1993, while new operations are those permitted after 1993.
- <u>Regular Mining Operations</u> are larger mining operations of unlimited acreage, and can be designated as either existing or new operations. Existing regular mining operations are those that operated between January 1, 1970, and June 18, 1993, while new operations are those permitted after 1993.
- <u>Minimal Impact Exploration Operations</u> are those that create less than 5 acres of surface disturbance and meet the definition of "minimal impact mining operations" as defined by the Rules. These are typically small extractive operations that involve the sampling of ore bodies prior to full-scale mine development.
- <u>Regular Exploration Operations</u> are those that exceed five acres of surface disturbance or do not meet the definition of "minimal impact mining operations" as defined by the Rules.
- <u>General Permit Operations</u> cannot excavate materials greater than 200 cubic yards per year, or disturb greater than two acres of surface at any one time. The General Permit category is typically used by hobby and recreational miners.

The Minimal Impact Exploration and General Permit categories make up the largest number of permitted operations. Table 1 shows the various types of mining and exploration operations, by category, that have received approved permits since the start of MARP in 1994.

Type of Operation	Description	Number of Operations
Regular Existing Mining	>10 acres of disturbance	31
Regular New Mining	>10 acres of disturbance	0
Minimal Impact Existing Mining	<10 acres of disturbance	24
Minimal Impact New Mining	<10 acres of disturbance	30
Regular Exploration	>5 acres of disturbance	6
Minimal Impact Exploration	<5 acres of disturbance	151
General (Recreational)	<200 cubic yards/yr of disturbance	259
	Total Mining Operations Permitted	501

#### Table 1. Mining Operations Approved from 1994 to 2012

#### Permit Modifications and Revisions

MARP typically receives and processes a large number of permit modifications and revisions, which can be just as time-consuming in processing and approving as new permit applications. Modifications and revisions involved updating reclamation acreage, permit transfers, name changes and financial assurance instruments and amounts. The Tyrone Mine and the Chino Mine are both in the process of updating their closeout plans. These updates are major revisions to the mine permits involving updating financial assurance, changes to the reclamation plans, and extended negotiations with the operator, other agencies, and the public. Chevron Mining Inc.'s Questa Mine revision has also involved MARP over the last several years. Because of the need to coordinate state reclamation plans at the mine with the federal U.S. Environmental Protection Agency's ("EPA") prescription for remediation under the Comprehensive Environmental Response, Compensation, and Liability Act ("CERCLA") process, MMD has delayed the operator's requirement to submit a new updated closeout plan for the complete mining and milling facility until after a Consent Decree has been satisfactorily negotiated to implement remediation requirements under the December 2010 Record of Decision ("ROD").

Table 2 identifies specific types of permit applications, including modifications and revisions, approved by MMD during 2011 and 2012. The number of minimal impact exploration permits received and approved decreased; however, the number of permit revisions and modifications approved increased.

Type of Operation	Description	Number of Approved Operations				
		2011	2012			
Regular New Mining	> 10 acres of disturbance	0	0			
Minimal Impact New Mining	< 10 acres of disturbance	3	2			
Regular Exploration	> 5 acres of disturbance	2	1			
Minimal Impact Exploration	< 5 acres of disturbance	14	8			
General Permits	< 200 cubic yards/yr of disturbance	23	36			
Revisions	Revision to an Existing Permit	1	3			
Modifications	Modification to an Existing Permit	4	18			
	g.	-				

#### Table 2. Approved Permit Applications – 2011 and 2012

#### Exploration Projects and General Permits

The number of exploration applications MARP received decreased from 2011 to 2012; however, the number of general permits increased during this time period. A total of eight exploration permits were approved in 2012, as shown in Table 3 below. Exploration for copper, gold, and silver constituted the majority of exploration activities in New Mexico with several projects also exploring for molybdenum and rare earths.

Permit Number	Permit Name	Permit Operator	Commodity
GR041EM	Oak Grove Exploration	Entrée Gold, Inc.	Copper
GR063EM	Saddleback Project	Silver Standards Resource, Inc.	Gold, Silver
HI013ER	Lordsburg Exploration Project II	Entrée Gold, Inc.	Copper, Gold
GR043EM	Lone Hills Exploration	AVEN Associates, LLC	Copper, Molybdenum
GR062EM	SP Exploration Project	Southern Silver Exploration, Ltd.	Copper, Gold, Molybdenum, Silver
LI030EM	KD Placer Claims	Advanced Geologic, Inc.	Gold, Silver
LI013EM	M&E Exploration Project	Red Basin, LLC	Rare Earths
LI014EM	Vista Project	Red Basin, LLC	Rare Earths

#### Table 3: Approved Exploration Permits – 2012

#### Approved Minimal Impact Mining Projects in 2012

Two new minimal impact mines were approved in 2012:

#### • Section 2 Mine

The Section 2 Mine is a minimal impact humate extraction operation located in McKinley County. The permittee is Mineris Vitae, LLC. The mine is located on surface and mineral rights managed by the New Mexico State Land Office ("SLO").

#### Iron Duke Mine

The Iron Duke Mine is a minimal impact iron extraction operation by Gulf Coast Mining Group, LLC in Otero County. The mine is located on patented mining claims although access is partially provided through land managed by the Bureau of Land Management ("BLM").

#### Pending Regular Mine Applications

Four new conventional mines are under development in New Mexico, a summary of which is provided in Table 4:

Project Name	Operator	Surface Ownership	Commodity	Proposed Permit Area (acres)
Copper Flat Mine	New Mexico Copper Corporation	BLM and Private Owners	Copper	2,190
La Jara Mesa Mine	Laramide Resources	USFS	Uranium	22
Roca Honda Mine	Roca Honda Resources	USFS and SLO	Uranium	183
Cebolleta Mine	Neutron Energy	Private Land Grant	Uranium	4,475

#### Table 4: Pending Regular Mine Applications – 2011 and 2012

#### • Roca Honda Mine

The proposed Roca Honda Mine by Roca Honda Resources is located in McKinley County on Cibola National Forest and state trust lands. Roca Honda Resources has submitted both the Sampling and Analysis Plan and the Permit Application Package to MMD. The Roca Honda Mine application indicates that the mine site and surface facilities will comprise approximately 183 acres of surface disturbance within a proposed 1,920 acre permit area. Roca Honda Resources also submitted a Mining Plan of Operations to the U.S. Forest Service ("USFS") which is being handled through the National Environmental Policy Act ("NEPA") Environmental Impact Statement ("EIS") process.

#### • La Jara Mesa Mine

The proposed La Jara Mesa Mine by Laramide Resources, Inc. is located in Cibola County on Cibola National Forest land on the edge of the Mt. Taylor Traditional Cultural Property. Laramide Resources has submitted a permit application to the USFS for the proposed mine which will be handled through the EIS process. Laramide Resources also initiated the permitting process with MMD by submitting a Sampling and Analysis Plan. The La Jara Mesa Mine application indicates about 16 acres of surface disturbance within the proposed 77 acre permit area. The Permit Application Package is anticipated to be submitted to MARP after the completion of the EIS process and after the ROD has been issued by the USFS.

#### <u>Copper Flat Mine</u>

New Mexico Copper Corporation submitted a Sampling and Analysis Plan in 2010 for the Copper Flat Mine, a proposed new regular copper mine in Sierra County, and conducted baseline data collection and analysis during 2011. The Permit Application Package was submitted in July 2012. The operator has already submitted a Plan of Operation to the BLM. MMD and BLM are working together to address the federal NEPA and state Environmental Evaluation ("EE") processes.

#### • Cebolleta Mine

Neutron Energy submitted a Sampling and Analysis Plan in March 2012 for the Cebolleta Mine, a proposed new uranium mine in Cibola County. The proposed mine is located entirely on private land, most of which is owned by the Cebolleta Land Grant. The proposed mine permit boundary is approximately 4,475 acres, though the amount of disturbance is anticipated to be less.

#### 3. General Description of Reclamation Practices

#### 2011 Excellence in Reclamation Award Winner: Velarde Mill

The Velarde Mill was a mica mill that received ore from the U.S. Hill Mine in Rio Arriba County, New Mexico. The mill utilized several large tailing ponds and is located in an area of mixed commercial, industrial and residential properties. Reclamation performed at the site was awarded the 2011 Excellence in Reclamation Award for successful achievement of a stable, positive-draining landform and establishment of a vegetative cover at a technically challenging site.



Application of cover soil over the tailings impoundment



Tailings dam out slope after regrading and covering



Mulch applied to the reclamation

Vegetative cover establishment

Other 2011 Excellence in Reclamation Award winners include the Harding Pegmatite Mine for safeguarding of the historic and nationally recognized site.

#### 2012 Excellence in Reclamation Award Winner: Tyrone Mine

The Tyrone Mine, located in Grant County, is a large open-pit copper mine and mill. Tyrone Mine reclamation is the largest-scale hard rock reclamation in New Mexico with approximately 4,400 acres of completed reclamation. Reclamation at the No. 2 tailing impoundment, Red Rock Diversion, and No. 1 stockpile were recognized for Excellence in Reclamation in 2012.



No. 2 tailing impoundment reclamation



No. 1 stockpile reclamation

Other 2012 Excellence in Reclamation Award winners include the Swastika Mine safeguarding and Dutchman Canyon reclamation project and the York Canyon Complex reclamation project.

#### Completed Reclamation

Four mines have received a complete release for reclamation or for achieving the postmine land use under the New Mexico Mining Act:

• Boston Hill Mine, in Grant County (2002)

- Mesa Verde Resources Mill, in Sandoval County (2005)
- CR Minerals Mill, in Santa Fe County (2008)
- Velarde Mill, in Rio Arriba County (2012)

#### Revegetation Test Plots and Geomorphic Reclamation Practices

MARP encourages innovative and experimental reclamation, particularly at sites where steep slopes and/or acid-producing materials present reclamation challenges. Four large operations permitted under MARP are evaluating vegetation test plots constructed over the last several years including: seeding rates, fertilizer rates, soil amendments, and infiltration rates using various soil covers and cover depths. Initial results of the test plot studies at the Tyrone and Chino mines suggest that use of the Gila Conglomerate as a growth medium is suitable for reclamation. Other trends continue to develop which will assist in decision making in the future. Chevron Mining Inc.'s Questa Mine, Freeport-McMoRan's Tyrone and Chino mines, and GCC Rio Grande's Tijeras Mine all have ongoing test plot programs.

MARP also encourages geomorphic reclamation approaches at hard rock mines. Geomorphic reclamation involves the use of reconstruction techniques, particularly on out-slopes which mimic natural drainage patterns to create a more stable and natural looking post-mine topography. Utilizing this new approach, the coal mines in New Mexico have enjoyed significant successes in erosion reduction, maintenance cost reductions, and greater vegetation success. Hard rock mine operators are beginning to learn how this technique might improve their reclamation strategies. The Tyrone, Tijeras and Questa mines are all exploring ways to incorporate geomorphic design into their reclamation plans.

#### Total Disturbance and Reclamation

Total disturbance and reclamation across the state is reported by the mine operators. Overall disturbed and reclaimed acreage under permit with MARP for the calendar years 2011 and 2012 is summarized in Table 5.

Calendar Year	Disturbed Acres To Date	Reclaimed Acres To Date				
2011	25,532.1	5,904.2				
2012	25,923.6	5,963.0				

Table 5: Summary of Disturbed and Reclaimed Acres – 2011 and 2012
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Appendix A contains summary tables of operator reports on disturbed and reclaimed acres from years 2011 and 2012.

#### 4. Financial Assurance Update

Appendix B summarizes the types and amounts of financial assurance provided to the State of New Mexico by mining operators who have obtained approved permits and closeout plans. The forms of financial assurance include surety bonds, cash deposits, letters of credit, collateral (real estate), and third-party guarantees.

A summary of the amounts of financial assurance held by MMD for the calendar years 2011 and 2012 is in Table 6 below. Appendix B lists financial assurance amounts for individual permits.

Calendar Year	Financial Assurance Amount Held By MMD
2011	\$572,280,477.55
2012	\$684,343,033.15

#### Table 6: Summary of Financial Assurance Held by MMD – 2011 and 2012

The amount of financial assurance increased in 2012 by approximately \$112 million primarily due to the addition of approximately \$109 million in financial assurance for the Questa Mine and Mill (permit number TA001RE).

#### 5. Amendments to the New Mexico Mining Act Rules

Petition number 11-01 was submitted by MARP staff to the New Mexico Mining Commission ("NMCC") for consideration. Petition 11-01 proposed to extend the "sunset date" to collect annual fees from March 31, 2012, to a new date of December 31, 2013. The NMCC convened on November 1, 2011, to determine whether to set a date to meet on Petition 11-01. Following unanimous approval, a hearing on Petition 11-01 was scheduled by the NMCC for January 12, 2012. At that meeting, the NMCC unanimously approved Petition 11-01, the final order for which was signed on January 19, 2013. No other rule changes were proposed in 2011 or 2012.

#### 6. Mineral Production Statistics for New Mexico in 2011 and 2012

#### Production Statistics for 2011

More than \$2.2 billion worth of minerals was extracted from New Mexico mines in 2011, a 24 percent increase from 2010 levels (Table 7 and Figure 1). This is the second highest minerals production value reported for New Mexico, behind 2008's total of \$2.36 billion. While coal production was flat and potash production was actually down in 2011, commodity price increases of 20 to 30 percent improved production values considerably. This, in conjunction with copper production and value up 25 percent and 45 percent, respectively, accounts for the lion's share of the increase.

New Mexico remains a leading United States mineral producer with 2011 rankings of first in potash, perlite and zeolite; third in copper (up from fourth in 2010); and thirteenth in coal, as reported by the U.S. Geological Survey ("USGS") and the U.S. Energy Information Administration. The principal minerals, in descending order of 2011 production value, were coal, potash, and copper. According to USGS, for 2011, New Mexico ranked sixteenth when ranking states by the production value of non-energy minerals, producing 1.75 percent of the total U.S. production value of non-energy minerals (up from twentieth and 1.6 percent in 2010, respectively).

Coal claimed the top spots for production value and payroll in 2011; also, the coal industry generated the greatest revenue for the state (Table 7 and Figure 1). Total 2011 revenues (state and federal) generated by mineral production in New Mexico declined just four percent from 2010 levels to \$52.4 million. State revenues include state trust land mineral lease royalties, rentals and bonuses and associated taxes; whereas federal revenue includes a 50 percent state share of federal royalties. In any production year, these revenues only accrue if the lessee is actually mining and producing commodities on federal or state land.

Total mining sector employment increased from 2010 to 2011 as did payroll amounts. The total number of direct and contract employees in the mining industry in 2011 was 6,661, an almost 18 percent increase from 2010; direct employment increased over 14 percent to 5,422 employees; contract employment increased more than 35 percent to 1,239 workers. Reclamation employment declined 38 percent to 386 workers (Figure 2). Industry payroll exceeded \$313 million (excluding benefits), an increase of nearly 16 percent from 2010 (Figure 2). Copper was the largest employer in New Mexico's mining industry, followed by coal and potash.

Registered active mining operations in New Mexico in 2011 numbered 246: four coal mines; eight potash operations (includes mines, refineries and compaction plants); 11 metal mine, mill and SX/EW operations (includes copper, molybdenum, gold, and silver); 21 industrial mineral mines; 15 industrial mineral mills; and 187 stone and aggregate operations.

#### Production Statistics for 2012

Operators reported more than \$2.8 billion worth of minerals extracted from New Mexico mines in 2012, a 27 percent increase from 2011's total (Table 8 and Figure 3). This is the highest minerals production value reported for New Mexico, exceeding the previous high, 2008's total of \$2.36 billion, by nearly 19 percent. While coal production was flat, reported potash production nearly doubled in 2012 offsetting the lower price per pound, and copper production and value were up 56 percent and 41 percent, respectively. These factors, in conjunction with other considerably increased commodity production, accounts for the majority of the increase.

New Mexico remains a leading United States mineral producer with 2012 rankings of first in potash, perlite and zeolite; third in copper, as reported by the U.S. Geological Survey (USGS); and thirteenth in coal (in 2011 – 2012 information not yet available), as reported by the U.S. Energy Information Administration. The principal minerals, in descending order of 2012 production value, were potash, copper and coal. According to USGS, for 2012, New Mexico ranked fourteenth when ranking states by the production value of non-energy minerals, producing 1.95 percent of the total U.S. production value of non-energy minerals (up from sixteenth and 1.75 percent in 2011, respectively).

Potash claimed the top spot for production value, and coal had the largest payroll and generated the greatest revenue for the state in 2012 (Table 8 and Figure 3). Total 2012 revenues (state and federal) generated by mineral production in New Mexico increased 19 percent from 2011 levels to \$62.4 million. State revenues include state trust land mineral lease royalties, rentals and bonuses and associated taxes; whereas federal revenue includes a 50 percent state share of federal royalties. In any production year, these revenues only accrue if the lessee is actually mining and producing commodities on federal or state land.

Total mining sector employment increased from 2011 to 2012 as did payroll amounts. The total number of direct and contract employees in the mining industry in 2012 was 6,856, a three percent increase from 2011: direct employment increased four percent to 5,654 employees; contract employment decreased slightly (three percent) to 1,202 workers; reclamation employment increased significantly (nearly 70 percent) to 655 workers (Figure 2). Industry payroll reached an all-time high of \$372 million (excluding benefits), an increase of nearly 19 percent from 2011 and more than 10 percent higher than the previously highest total in 2008 (Figure 2). When one includes reclamation employment, coal was the largest employer in New Mexico's mining industry, followed by copper and potash.

Registered active mining operations in New Mexico in 2012 numbered 237: four coal mines; eight potash operations (includes mines, refineries and compaction plants); 11 metal mine, mill and SX/EW operations (includes copper, molybdenum, gold, and silver); 15 industrial mineral mines; 10 industrial mineral mills; and 189 stone and aggregate operations.

#### Table 7: Mineral Production Value, Rank, Employment, Payroll and Revenue – 2011

Mineral	Production <sup>1</sup>	Production Rank <sup>2</sup>		Production Value \$	Employment <sup>3</sup>	Reclamation Employment	Payroll \$ <sup>4</sup>	Revenue G	ue Generated \$ <sup>5</sup>	
								State		Federal
Coal	21,916,599	13	\$	797,007,997	1,604	101	\$ 95,945,409	\$ 25,555,399	\$	3,850,306
Copper	145,094,072	3	\$	581,101,762	1,754	120	\$ 78,015,148	\$ 4,606,351	\$	-
Gold	6,815	-	\$	10,682,651	73	2	\$ 2,186,857	\$ 89,878	\$	-
Industrial Minerals <sup>6</sup>	1,472,746	-	\$	107,097,166	462	16	\$ 16,562,338	\$ 848,383	\$	112,838
Aggregates <sup>7</sup>	9,813,528	-	\$	68,432,817	956	95	\$ 14,041,061	\$ 1,890,674	\$	-
Other Metals	40,046	-	\$	947,100	17	2	\$ 903,048	\$ -	\$	-
Molybdenum	386,439	-	\$	6,115,669	245	3	\$ 12,258,000	\$ -	\$	-
Potash <sup>8</sup>	781,282	1	\$	636,047,697	1,521	30	\$ 92,290,141	\$ 5,944,656	\$	9,394,316
Silver <sup>9</sup>	206,728	-	\$	7,274,091	-	-	\$ -	\$ 57,812	\$	-
Uranium <sup>10</sup>	-	-	\$	-	29	17	\$ 1,566,888	\$ 61,832	\$	-
TOTAL			\$2	2,214,706,950	6,661	386	\$ 313,768,890	\$ 39,054,985		\$13,357,460

Source: Mining and Minerals Division, unless otherwise noted.

<sup>1</sup> Production is in short tons for coal, industrial minerals, aggregates, other metals and potash; copper and molybdenum in pounds; gold and silver in troy ounces

<sup>2</sup> Production rank is based on 2011 production value in relation to other U.S. states. Molybdenum ranking unavailable.

Sources: Metals, potash, industrial minerals and aggregates: Mineral Resources Program, United States Geological Survey (minerals.er.usgs.gov) Coal: Energy Information Administration, United States Department of Energy (www.eia.doe.gov)

<sup>3</sup> Employment category includes direct and contract employees.

<sup>4</sup> Payroll is for direct employees and does not include contract employees. Payroll does not include benefits.

<sup>5</sup> State revenue includes state trust land mineral lease royalties, rentals and bonuses; and severance, resource excise and conservation tax revenues.

Federal revenue includes 50% state share of federal royalties.

Sources: State data: New Mexico Taxation and Revenue Department (www.state.nm.us/tax), New Mexico State Land Office (www.nmstatelands.org) Federal data: Bureau of Ocean Energy Management, Regulation and Enforcement (www.boemre.gov)

<sup>6</sup> Category includes brick clay, calcite, dimension stone, gypsum, humate, perlite, Portland cement, pumice, salt, silica, and zeolite.

<sup>7</sup> Category includes base course, caliche, clay and shale, crushed rock, flagstone, fill dirt, gravel, limestone, red dog, rip-rap, sand, scoria and topsoil.

<sup>8</sup> Potash production is K<sub>2</sub>O mill production.

<sup>9</sup> Employment and payroll for silver included in copper and gold.

<sup>10</sup> Employment/payroll numbers are for licensing/permitting at proposed uranium mines, and reclamation activities/maintenance at closed mines and mills.

#### Table 8: Mineral Production Value, Rank, Employment, Payroll and Revenue – 2012

Mineral	Production <sup>1</sup>	Production Rank <sup>2</sup>		Production Value \$	Employment <sup>3</sup>	Reclamation Employment	Payroll \$ <sup>4</sup>	Revenue G	ene	rated \$ 5
								State		Federal
Coal	22,919,717	13*	\$	797,394,984	1,770	377	\$ 121,925,446	\$ 24,924,777	\$	6,181,597
Copper	226,646,592	3	\$	819,214,107	1,841	84	\$ 100,240,382	\$ 6,338,256	\$	-
Gold	9,758	-	\$	16,034,878	64	-	\$ 3,301,917	\$ 170,538	\$	-
Industrial Minerals <sup>6</sup>	1,491,760	-	\$	108,975,769	470	21	\$ 16,660,487	\$ 911,955	\$	130,578
Aggregates <sup>7</sup>	8,543,379	-	\$	76,945,909	913	102	\$ 14,552,762	\$ 6,380,696	\$	-
Other Metals	117,199	-	\$	1,569,648	19	20	\$ 1,229,746	\$ -	\$	-
Molybdenum	1,726,484	-	\$	21,687,231	282	-	\$ 14,952,000	\$ -	\$	-
Potash <sup>8</sup>	1,548,047	1	\$	953,477,008	1,473	30	\$ 98,182,919	\$ 4,443,294	\$	12,868,197
Silver <sup>9</sup>	203,221	-	\$	6,334,625	-	-	\$ -	\$ 93,779	\$	-
Uranium <sup>10</sup>	-	-	\$	-	24	21	\$ 1,189,898	\$ -	\$	-
TOTAL	_,,		\$2	2,801,634,159	6,856	655	\$ 372,235,557	\$ 43,263,295	\$	519,180,372

Source: Mining and Minerals Division, unless otherwise noted.

<sup>1</sup> Production is in short tons for coal, industrial minerals, aggregates, other metals and potash; copper and molybdenum in pounds; gold and silver in troy ounces

<sup>2</sup> Production rank is based on 2012 production value in relation to other U.S. states. Molybdenum ranking unavailable.

Sources: Metals, potash, industrial minerals and aggregates: Mineral Resources Program, United States Geological Survey (minerals.er.usgs.gov) Coal: Energy Information Administration, United States Department of Energy (www.eia.doe.gov)

<sup>3</sup> Employment category includes direct and contract employees.

<sup>4</sup> Payroll is for direct employees and does not include contract employees. Payroll does not include benefits.

<sup>5</sup> State revenue includes state trust land mineral lease royalties, rentals and bonuses; and severance, resource excise and conservation tax revenues.

Federal revenue includes 50% state share of federal royalties.

Sources: State data: New Mexico Taxation and Revenue Department (www.state.nm.us/tax), New Mexico State Land Office (www.nmstatelands.org) Federal data: Office of Natural Resources Revenue (www.onnr.gov)

<sup>6</sup> Category includes brick clay, calcite, dimension stone, gypsum, humate, perlite, Portland cement, pumice, salt, silica, and zeolite.

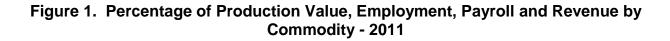
<sup>7</sup> Category includes base course, caliche, clay and shale, crushed rock, flagstone, fill dirt, gravel, limestone, red dog, rip-rap, sand, scoria and topsoil.

<sup>8</sup> Potash production is K<sub>2</sub>O mill production.

<sup>9</sup> Employment and payroll for silver included in copper and gold.

<sup>10</sup> Employment/payroll numbers are for licensing/permitting at proposed uranium mines, and reclamation activities/maintenance at closed mines and mills.

2011 ranking, 2012 not yet available from the U.S. Energy Information Administration



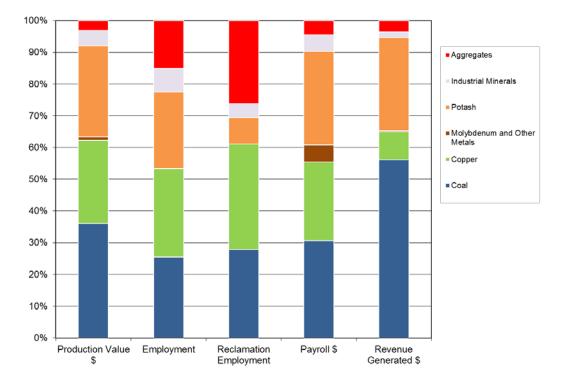


Figure 2. New Mexico Mineral Industry Employment from 1990-2012

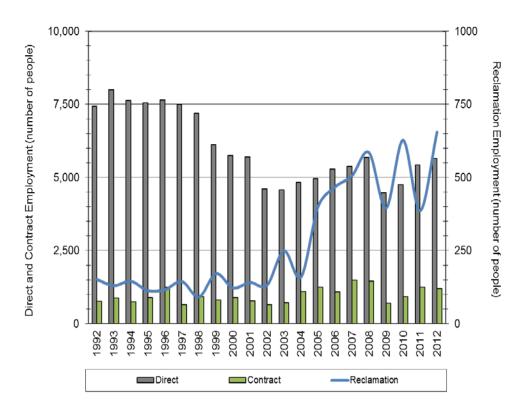
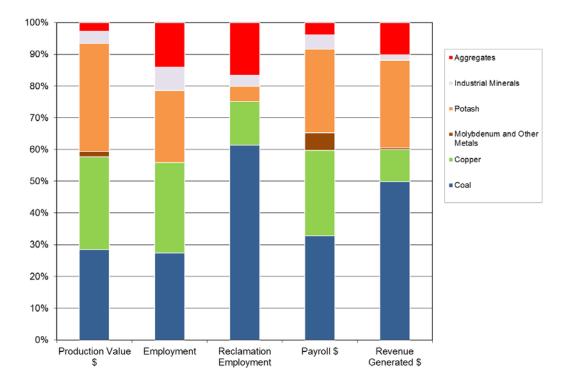


Figure 3. Percentage of Production Value, Employment, Payroll and Revenue by Commodity – 2012



## Appendix A:

### Summary of Operator Reports for Disturbed and Reclaimed Acreage 2011 and 2012

Permit Number	Permit Name	Disturbed Acres To Date	Reclaimed Acres to Date
BE001RE	Tijeras Mine and Mill	583.3	103.5
CA002MN	Deadwood / Last Chance Mine	1	0
CA003ME	Hiawatha And Little Jim Mine	2	0
CA005RE	Challenge Mine and Mill	0	0
CA010MN	Apache Camp No. 1 Mine	0	0
CI002RE	Mt. Taylor Mine	147.7	0
CI003MN	ANP No. 2 Mine	2	0
CI004MN	Haskani Mine	13.3	0.5
CI005RE	Tinaja Pit Mine	40	0
CI006MN	Ray Claims No. 4 and No. 6 Mine	0.2	0.5
CI007RE	JJ No. 1 Mine	0	20
DA001MN	Shamrock Leach Site	2	2
DA003MN	Alley Gypsum Mine	1.2	1.5
GR001RE	Pinos Altos Mine	9	9
GR002RE	Continental Mine and Mill	928	19
GR006RE	Chino Limestone Mine	55	55
GR007RE	Little Rock Mine	191	32
GR008RE	Jersey Lily, Snowflake and Virtue Mines	0	22
GR009RE	Chino Mine and Mill	10415.7	0
GR010RE	Tyrone Mine and Mill	8473.1	4611
GR011ME	Summit Mine	2	0
GR012MN	KB Mine	41	42
GR016ME	Malone Mine	0	0
GR018ME	Banks Mine (Lost New Summit No. 1 Mine)	0	0
GR019ME	Boston Hill Mine	0	0
GR020RE	Georgetown Mine	0	0.8
GR024MN	Toro Mine	0	0
GR025ME	Mathis Limestone Quarry Mine	0	0
GR028RE	Center Mine	0	0
GR029ME	Mount Royal Mine and Mill	1	0
GR030ME	Chemical Lime Mine & Mill	0	4.4

 Table A-1. Number of Acres Disturbed and Reclaimed as of December 2011

GR036MN	Grooms Placer Mine	0	0
GR056MN	McCauley Perlite Mine	0	0
GR058MN	Billali Mine	0	0
HI001RE	Lordsburg Mine and Mill	15	5
HI002RE	Brockman Mine	40	40
HI004MN	KM Mine	9	8
HI008ME	Volcano Mine	8	0
LI001ME	Warner Gulch Placer Mine	2	2
LI002ME	Smokey Mine	0	0
LI005ME	Capitan Iron Mine	12	0
LU001RE	Deming Jigging Mill	16	16
LU008RE	Cyprus Deming Tailings Impoundment	20	23.9
LU009RE	Asarco Deming Mill	56.5	44
LU011MN	Herb Bailey No. 1 Mine	0	0
LU012MN	Herb Bailey No. 2 Mine	0	0
MK002RE	Section 35 Mine	40	30
MK003ME	Star Lake Mine - Menefee	4	2
MK004RE	Northeast Church Rock Mine	0	17
MK005RE	Section 27 Mine	17	15
MK006RE	St. Anthony Mine	435	0
MK007ME	Star Lake Mine - Mesa Verde	45.1	39.3
MK008ME	Pueblo Alto Mine	24	30.5
MK009RE	Old Stope Leach Mine	81	78
MK010MN	U-Mate Mine	1	0
MK011MN	Morningstar Mine	14	19
MK012MN	Jaramillo Humate Mine	0	0
MK026MN	Black Spring Mine	1.5	0
OT001RN	Wind Mountain Quarry Mine	0	0
OT002MN	B.O.W. Mine	0.6	0
OT005MN	Orogrande Placer Gold Mine	1.8	0
RA001ME	Northstar Mine	1.3	0
RA003ME	Cullum Claims Mine	60	0
RA004RE	Rocky Mountain Mine	175.4	17
RA005RE	Velarde Mill	28	27.4
RA006ME	General Pumice Mine	17	15

SA001RE	El Cajete Mine	68	39.5
SA002RE	Clod Buster Mine and Mill	0	0
SA004MN	Copar South Pit Mine	9	18.5
SA005ME	Menefee Mill	9.7	0
SA006MN	Copper City Mine	1	0
SA009MN	Eagle Mesa Mine	8.1	5.5
SA010ME	Mesa Verde Resources Mill	0	0
SA011MN	San Luis Mine	15	10
SA012MN	Horizon-Ag Products Cuba Mill	0	0
SA015MN	H2 Screen Facility	3.5	0
SF001ME	San Pedro Mine and Mill	12	12
SF002RE	Cunningham Hill Mine	307	289
SF003ME	Silver Silica Mine	4	0.5
SF006ME	CR Minerals Mill	8	8
SI001ME	St. Cloud U.S. Treasury Mine	10	3
SI005MN	Burbank Canyon Mine	0	0
SI006RE	Zeolite Mine and Mill	51	24.5
SI007ME	Midnight Mine	4	0
SI020MN	Coyote Cliff No. 1 Mine	0.6	0
SI021MN	Coyote Cliff No. 2 Mine	0.8	0
SJ001MN	Morningstar Plant	7.7	0
SJ002MN	Chaco Limestone Quarry	0	1.5
SO001RE	Socorro Mine and Mill	160	43.4
SO002MN	Sais Quarry Mine	3.7	0
SO005MN	San Lorenzo Claim Mine	0	0
TA001RE	Questa Mine and Mill	2300	21
TA002RE	El Grande Mine and Mill	170	14
TA003RE	U. S. Hill Mine	60	61.5
TA005RE	No Agua Mine and Mill	276	0
VA001ME	Lucero Quarry Mine	9.3	0
	TOTAL ACREAGE (2011):	25,532.1	5,904.2

Permit Number	Permit Name	Disturbed Acres To Date	Reclaimed Acres to Date
BE001RE	Tijeras Mine and Mill	587	103.5
CA002MN	Deadwood / Last Chance Mine	1	0
CA003ME	Hiawatha And Little Jim Mine	2	0
CA005RE	Challenge Mine and Mill	0	0
CA010MN	Apache Camp No. 1 Mine	0	0
CI002RE	Mt. Taylor Mine	147.7	0
CI003MN	ANP No. 2 Mine	2	0
CI004MN	Haskani Mine	13.3	0.5
CI005RE	Tinaja Pit Mine	40	0
CI006MN	Ray Claims No. 4 and No. 6 Mine	0.2	0.5
CI007RE	JJ No. 1 Mine	0	20
DA001MN	Shamrock Leach Site	2	2
DA003MN	Alley Gypsum Mine	1.2	1.5
GR001RE	Pinos Altos Mine	9	9
GR002RE	Continental Mine and Mill	928	19
GR006RE	Chino Limestone Mine	55	55
GR007RE	Little Rock Mine	191	32
GR008RE	Jersey Lily, Snowflake and Virtue Mines	0	22
GR009RE	Chino Mine and Mill	10,725.7	0
GR010RE	Tyrone Mine and Mill	8,512.1	4,611
GR011ME	Summit Mine	2	0
GR012MN	KB Mine	41	42
GR016ME	Malone Mine	0	0
GR018ME	Banks Mine (Lost New Summit No. 1 Mine)	0	0
GR019ME	Boston Hill Mine	0	0
GR020RE	Georgetown Mine	0	0.8
GR024MN	Toro Mine	0	0
GR025ME	Mathis Limestone Quarry Mine	0	0
GR028RE	Center Mine	0	0
GR029ME	Mount Royal Mine and Mill	1	0
GR030ME	Chemical Lime Mine & Mill	0	4.4

 Table A-2.
 Number of Acres Disturbed and Reclaimed as of December 2012

GR036MN	Grooms Placer Mine	0	0
GR056MN	McCauley Perlite Mine	0	0
GR058MN	Billali Mine	0	0
HI001RE	Lordsburg Mine and Mill	15	5
HI002RE	Brockman Mine	40	40
HI004MN	KM Mine	9	8
HI008ME	Volcano Mine	8	0
LI001ME	Warner Gulch Placer Mine	2	2
LI002ME	Smokey Mine	0	0
LI005ME	Capitan Iron Mine	12	0
LU001RE	Deming Jigging Mill	16	16
LU008RE	Cyprus Deming Tailings Impoundment	20	23.9
LU009RE	Asarco Deming Mill	56.5	44
LU011MN	Herb Bailey No. 1 Mine	0	0
LU012MN	Herb Bailey No. 2 Mine	0	0
MK002RE	Section 35 Mine	40	30
MK003ME	Star Lake Mine - Menefee	4	2
MK004RE	Northeast Church Rock Mine	0	17
MK005RE	Section 27 Mine	17	15
MK006RE	St. Anthony Mine	435	0
MK007ME	Star Lake Mine - Mesa Verde	52.8	48
MK008ME	Pueblo Alto Mine	32	38.1
MK009RE	Old Stope Leach Mine	81	78
MK010MN	U-Mate Mine	1	0
MK011MN	Morningstar Mine	14	19
MK012MN	Jaramillo Humate Mine	0	0
MK026MN	Black Spring Mine	5.5	2
MK037MN	Section 2 Mine	14.5	11.5
OT001RN	Wind Mountain Quarry Mine	0	0
OT002MN	B.O.W. Mine	0.6	0
OT005MN	Orogrande Placer Gold Mine	1.8	0
RA001ME	Northstar Mine	1.3	0
RA003ME	Cullum Claims Mine	60	0
RA004RE	Rocky Mountain Mine	178	36
RA005RE	Velarde Mill	28	27.4

RA006ME	General Pumice Mine	17	15
SA001RE	El Cajete Mine	68	39.5
SA002RE	Clod Buster Mine and Mill	0	0
SA004MN	Copar South Pit Mine	9	18.5
SA005ME	Menefee Mill	9.7	0
SA006MN	Copper City Mine	1	0
SA009MN	Eagle Mesa Mine	8.1	13.5
SA010ME	Mesa Verde Resources Mill	0	0
SA011MN	San Luis Mine	15	10
SA012MN	Horizon-Ag Products Cuba Mill	0	0
SA015MN	H2 Screen Facility	3.5	0
SF001ME	San Pedro Mine and Mill	12	12
SF002RE	Cunningham Hill Mine	307	289
SF003ME	Silver Silica Mine	4	0.5
SF006ME	CR Minerals Mill	8	8
SI001ME	St. Cloud U.S. Treasury Mine	10	3
SI005MN	Burbank Canyon Mine	0	0
SI006RE	Zeolite Mine and Mill	51	24.5
SI007ME	Midnight Mine	4	0
SI020MN	Coyote Cliff No. 1 Mine	0.6	0
SI021MN	Coyote Cliff No. 2 Mine	0.8	0
SI025MN	Harding Mine	0	0
SJ001MN	Morningstar Plant	7.7	0
SJ002MN	Chaco Limestone Quarry	2	3.5
SO001RE	Socorro Mine and Mill	160	43.4
SO002MN	Sais Quarry Mine	3.7	0
SO005MN	San Lorenzo Claim Mine	0	0
TA001RE	Questa Mine and Mill	2,300	21
TA002RE	El Grande Mine and Mill	170	14
TA003RE	U. S. Hill Mine	60	61.5
TA005RE	No Agua Mine and Mill	276	0
VA001ME	Lucero Quarry Mine	9.3	0
	TOTAL ACREAGE (2012):	25,923.6	5,963.0

## Appendix B:

## Table of Financial Assurance Amounts

Permit Number	Permit Name	Туре	Financial Assurance Amount	
		Trust	\$	867,500.00
BE001RE	Tijeras Mine and Mill	Third Party Guarantee	\$	2,812,500.00
		Surety Bond	\$	70,000.00
CA003ME	Hiawatha And Little Jim Mine	Certificate of Deposit	\$	736.00
CI002RE	Mt. Taylor Mine	Surety Bond	\$	725,056.00
CI004MN	Haskani Mine	Certificate of Deposit	\$	32,743.00
CI005RE	Tinaja Pit Mine	Letter of Credit	\$	161,514.00
CI006MN	Ray Claims No. 4 and No. 6 Mine	Certificate of Deposit	\$	20,405.00
CI007RE	JJ No. 1 Mine	Surety Bond	\$	642,298.90
	Cohollete Evoleration Project	Letter of Credit	\$	41,625.00
CI014ER	Cebolleta Exploration Project	Letter of Credit	\$	46,980.00
GR001RE	Pinos Altos Mine	Letter of Credit	\$	343,600.00
	Continental Mine and Mill	Trust	\$	3,000,000.00
GR002RE		Third Party Guarantee	\$	18,181,672.00
		Collateral Bond	\$	6,173,600.00
		Surety Bond	\$	1,520,113.00
GR007RE	Little Rock Mine	Surety Bond	\$	1,424,470.00
GR008RE	Jersey Lily, Snowflake and Virtue Mines	Letter of Credit	\$	46,600.00
	Chine Mine and Mill	Trust	\$	64,042,304.00
GR009RE	Chino Mine and Mill	Third Party Guarantee	\$	121,136,201.00
		Surety Bond	\$	6,780,518.00
		Collateral Bond	\$	27,951,986.00
	Tyrone Mine and Mill	Surety Bond	\$	25,000,000.00
GR010RE		Letter of Credit	\$	170,874.00
		Third Party Guarantee	\$	98,827,127.00
		Trust	\$	27,000,000.00
GR012MN	KB Mine	Certificate of Deposit	\$	24,182.00
GR020RE	Georgetown Mine	Certificate of Deposit	\$	5,200.00
GR022MN	Farmers Backbreaker Mine	Certificate of Deposit	\$	15,000.00
GR025ME	Mathis Limestone Quarry Mine	Certificate of Deposit	\$	3,000.00

#### Table B-1. Financial Assurance as of December 2012

Permit Number	Permit Name	Туре	Finan	ncial Assurance Amount
	Contor Mine	Surety Bond	\$	88,563.00
GR028RE	Center Mine	Certificate of Deposit	\$	12,000.00
GR030ME	Chemical Lime Mine & Mill	Surety Bond	\$	62,287.00
GR038EM	LT Ranch	Certificate of Deposit	\$	66,367.50
		Certificate of Deposit	\$	44,480.00
GR039ER	Long Mountain Draiget	Certificate of Deposit	\$	76,440.00
GRUJ9ER	Lone Mountain Project	Certificate of Deposit	\$	57,210.00
		Certificate of Deposit	\$	68,250.00
GR040EM	ORO II	Letter of Credit	\$	39,181.00
GR041EM	Oak Grove Exploration Project	Certificate of Deposit	\$	83,138.00
GR043EM	Lone Hills Exploration Project	Certificate of Deposit	\$	61,410.00
GR062EM	SP Exploration Project	Letter of Credit	\$	27,036.60
GR063EM	Saddleback Project	Letter of Credit	\$	78,962.00
	Lordsburg Mine and Mill	Certificate of Deposit	\$	206,471.00
HI001RE		Certificate of Deposit	\$	20,355.00
		Certificate of Deposit	\$	3,879.00
HI002RE	Brockman Mine	Letter of Credit	\$	276,900.00
HI004MN	KM Mine	Certificate of Deposit	\$	8,124.00
HI008ME	Volcano Mine	Collateral Bond	\$	28,652.00
HI013ER	Lordsburg Exploration Project II	Certificate of Deposit	\$	126,100.00
HI015EM	McGhee Peak Exploration Project	Certificate of Deposit	\$	65,860.00
HI016EM	Railroad Well Exploration Project	Certificate of Deposit	\$	68,604.00
LI001ME	Warner Gulch Placer Mine	Letter of Credit	\$	10,000.00
LI003ER	Bonito Gold & Silver Project	Cash	\$	200.00
LI005ME	Capitan Iron Mine	Certificate of Deposit	\$	15,000.00
LI010EM	Outlaw Exploration Project	Certificate of Deposit	\$	33,525.00
LI011EM	Outlaw # 2	Certificate of Deposit	\$	25,200.00
LI012EM	Outlaw #3	Letter of Credit	\$	32,600.00
LI013EM	M&E Exploration Project	Certificate of Deposit	\$	20,000.00
LI014EM	Vista Project	Certificate of Deposit	\$	15,650.00
LI030EM	KD Placer Claims	Certificate of Deposit	\$	9,690.00
LU001RE	Deming Jigging Mill	Surety Bond	\$	100,000.00

Permit Number	Permit Name	Туре	Finan	cial Assurance Amount
LU008RE	Cyprus Deming Tailings Impoundment	Letter of Credit	\$	132,588.00
LU017EM	Victorio Project	Certificate of Deposit	\$	80,299.00
MK003ME	Star Lake Mine - Menefee	Surety Bond	\$	13,000.00
MK005RE	Section 27 Mine	Surety Bond	\$	377,000.00
		Certificate of Deposit	\$	4,408.00
	Starleka Mina - Maga Varda	Certificate of Deposit	\$	24,794.00
MK007ME	Star Lake Mine - Mesa Verde	Certificate of Deposit	\$	21,193.00
		Certificate of Deposit	\$	1,577.00
		Certificate of Deposit	\$	2,677.00
	Duchle Alte Mine	Certificate of Deposit	\$	22,000.00
MK008ME	Pueblo Alto Mine	Certificate of Deposit	\$	21,051.00
		Certificate of Deposit	\$	2,500.00
MK009RE	Old Stope Leach Mine	Letter of Credit	\$	578,000.00
MK010MN	U-Mate Mine	Certificate of Deposit	\$	8,844.00
MK011MN	Morningstar Mine	Certificate of Deposit	\$	2,880.00
MK023ER	Marquez Canyon Confirmation Drilling Program	Letter of Credit	\$	115,030.00
MK026MN	Black Spring Mine	Certificate of Deposit	\$	11,000.00
		Certificate of Deposit	\$	25,000.00
MK028EM	Elizabeth Claims	Letter of Credit	\$	70,270.00
MK037MN	Section 2 Mine	Certificate of Deposit	\$	21,980.00
		Certificate of Deposit	\$	25,000.00
OT002MN	B.O.W. Mine	Letter of Credit	\$	15,932.00
OT006EM	Cornudas Project	Certificate of Deposit	\$	22,600.00
OT006MN	Iron Duke Mine	Certificate of Deposit	\$	15,597.00
RA001ME	Northstar Mine	Certificate of Deposit	\$	10,000.00
RA003ME	Cullum Claims Mine	Letter of Credit	\$	161,500.00
RA004RE	Rocky Mountain Mine	Letter of Credit	\$	409,886.00
RA005RE	Velarde Mill	Surety Bond	\$	287,821.00
RA006ME	General Pumice Mine	Required	\$	15,000.00
SA004DE		Letter of Credit	\$	78,747.00
SA001RE	El Cajete Mine	Letter of Credit	\$	12,103.00
SA004MN	Copar South Pit Mine	Letter of Credit	\$	33,516.00

Permit Number	Permit Name	Туре	Financial Assurance Amount	
SA005EM	Rio Puerco Exploration Project	Certificate of Deposit	\$	45,000.00
SA005ME	Menefee Mill	Certificate of Deposit	\$	16,000.00
SA006MN	Copper City Mine	Cash	\$	800.00
SA009MN	Eagle Mesa Mine	Letter of Credit	\$	7,270.00
SA011MN	San Luis Mine	Letter of Credit	\$	35,100.00
SA015MN	H2 Screen Facility	Letter of Credit	\$	28,170.00
SF001ME	San Pedro Mine and Mill	Certificate of Deposit	\$	8,288.00
SF002RE	Cunningham Hill Mine	Trust	\$	378,766.00
SI001ME	St. Cloud U.S. Treasury Mine	Certificate of Deposit	\$	1,857.00
SI005MN	Burbank Canyon Mine	Certificate of Deposit	\$	30,000.00
SI006RE	Zeolite Mine and Mill	Collateral Bond	\$	157,719.00
SI022EM	Copper Flat Exploration	Certificate of Deposit	\$	39,540.00
SI025EM	Copper Flat Exploration 2 Project	Certificate of Deposit	\$	241,710.00
SO001RE	Socorro Mine and Mill	Letter of Credit	\$	106,237.00
SOUTRE		Letter of Credit	\$	688,166.00
SO002MN	Sais Quarry Mine	Certificate of Deposit	\$	2,661.89
SO014ER	Sullivan Ranch Exploration Part 4 Project	Certificate of Deposit	\$	36,724.26
		Letter of Credit	\$	1,355,634.00
TA001RE	Questa Mine and Mill	Letter of Credit	\$	66,918,125.00
		Third Party Guarantee	\$	200,754,376.00
TA002RE	El Grande Mine and Mill	Letter of Credit	\$	711,497.00
TA003RE	U. S. Hill Mine	Letter of Credit	\$	201,354.00
TA005RE	No Agua Mine and Mill	Surety Bond	\$	1,029,790.00
VA001ME	Lucero Quarry Mine	Certificate of Deposit	\$	24,515.00

TOTAL (2012)

\$ 684,343,033.15