Active mines and processing plants in New Mexico

Resource Map 14

by Mark J. Logsdon, Project Manager (Geologist), U.S. Nuclear Regulatory Commission, Washington, DC

Resource Map 14 introduces the principal mineral and energy resources of New Mexico and identifies and locates the active mines and mineral processing plants in the state. This resource map, a revision of New Mexico Bureau of Mines and Mineral Resources Resource Map 9 (Siemers and Austin, 1979), comprises two maps and a text that includes explanatory material and a set of directories to the active mines and plants. The data for Resource Map 14 are maintained in and manipulated by MINES-CREF, a PASCAL computer code of the New Mexico Bureau of Mines and Mineral Resources, described by Lloyd and Logsdon (1982).

Maps

Plate A, reproduced on the facing page, is a small-scale (approximately 1:3,500,000) map showing New Mexico's principal energy and mineral resources, exclusive of sand, gravel, and common rocks suitable only for crushed-rock aggregate. A list of sand, gravel, and crushed-rock aggregate operations is given annually in the report of the State Mine Inspector, and a brief description of the geologic occurrence of sand and gravel is given in Austin and others (1982). Plate A was compiled from information in Arnold and Hill (1980, 1981a, 1981b); Austin and others (1982); and any other technical support was provided by the staff of the New Mexico Bureau of Mines and Mineral Resources.

Processing plants always include a key word (plant, mill, refinery, smelter) in the name of the operation to distinguish them from the mine with which they are associated. In the example, AMAX is a mine, but AMAX mill would be the AMAX Chemical Company's processing plant that serves the AMAX mine. Where an operation does not have an official name, it is named for the operating company.

Locations of operations are given by section, township, and range; 9-19S-30E in the example represents sec. 9, T. 19 S., R. 30 E. In plotting locations on plate B, small adjustments were made to prevent overlap of symbols. With the exception of coal mines, for those operations that occur in more than one section, the operation is plotted in the section which is of most interest, typically the section where the main shafts or administrative offices are located. Coal mines are plotted in the middle section of the lease.

The complete mailing address and telephone number are those of the office to which all inquiries concerning the operation should be addressed.

In each directory data are presented in the following format:

1) county directory—active mines and processing plants in New Mexico;
2) base metal directory—active copper, iron, lead, molybdenum, and zinc operations;
3) rock products directory—active clay, gypsum, limestone, mica, silica, and stone operations;
4) coal directory—active coal operations;
5) precious metals directory—active gold and silver operations;
6) lightweight aggregate directory—active perlite, pumice, and scoria operations;
7) potash directory—active potash and salt operations;
8) uranium directory—active uranium operations.

In each directory data are presented in the following format:

<table>
<thead>
<tr>
<th>FORMAT</th>
<th>EXAMPLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of operation</td>
<td>AMAX</td>
</tr>
<tr>
<td>Location (section-township-range)</td>
<td>9-19S-30E</td>
</tr>
<tr>
<td>Name of company</td>
<td>AMAX Chemical Corp.</td>
</tr>
<tr>
<td>Mailing address</td>
<td>P.O. Box 279 Carlsbad, NM 88220 505/885-3157</td>
</tr>
<tr>
<td>City, state, zip code, telephone</td>
<td>Eddy #1 505/538-3818</td>
</tr>
<tr>
<td>County and plate B code</td>
<td>3-20tpd</td>
</tr>
<tr>
<td>Capacity</td>
<td>Potash</td>
</tr>
<tr>
<td>Commodities mined or processed</td>
<td>Potash</td>
</tr>
</tbody>
</table>

References


Energy and mineral resources of New Mexico
(Plate A of Active mines and processing plants in New Mexico)

Logsdon, M. J., 1982, Gypsum resources of New Mexico, in Industrial rocks and minerals of the Southwest, G. S. Austin, ed.: New Mexico Bureau of Mines and Mineral Resources, Circ. 182, p. 41-48
McLemore, V. T., 1981, Uranium resources in New Mexico—discussion of the NURE program: New Mexico Geology, v. 3, no. 4, p. 54-58