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# Interstate Mining Compact Commission Intergovernmental Benchmarking Workshop on Underground Mine Mapping

The Galt House Hotel  
140 Fourth Avenue North  
Louisville, KY 40202

October 15 & 16, 2003

# FEDERAL LEASES

## A BLM PERSPECTIVE ON MINERAL DEVELOPMENT

### Public Lands, On-Shore Federal and Indian Minerals\*in Lands of the U.S.

Responsibilities of Bureau of Land Management

#### Categories of Lands

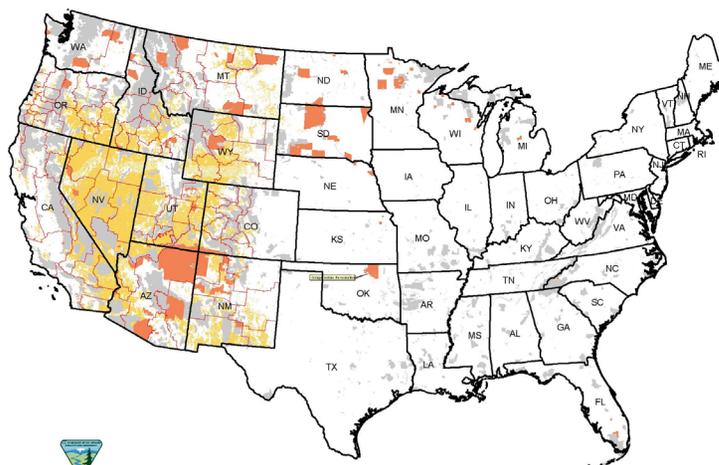
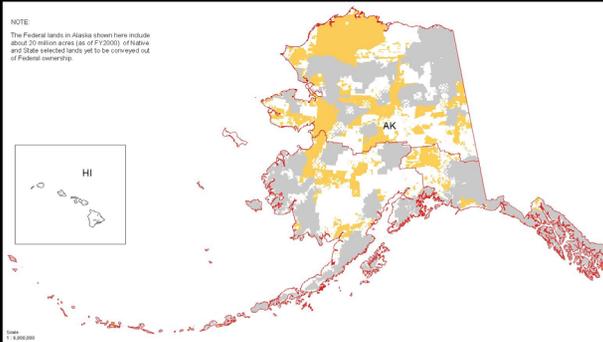
- BLM - Surface and Minerals (261 million ac)
- Other Federal Lands - Minerals (380 million ac)
- Non-Federal Surface (includes 58 million ac of Split - Estate Federal Minerals)
- Indian Trust Lands (56 million ac) except Mineral Operations for Osage Minerals
- BLM Administration Boundaries

\* Of the approximately 700 million acres of Federal mineral interests, about 160 million acres have been withdrawn from mineral entry, leasing and sale, except for valid existing rights.

■ State minerals e.g. sand and gravel historically are the responsibility of each Federal surface management agency.

■ The map depicts only Indian Reservations of at least 25,000 acres in size, not all Indian trust lands.

NOTE:  
The Federal lands in Alaska shown here include about 20 million acres (as of FY2003) of Native and State selected lands yet to be conveyed out of Federal ownership.



Estimated Average #/ for Categories of Lands by BLM State (in million acres)

State	Federal Surface	Federal Minerals	Non-Federal Surface	Indian Trust Lands	BLM Admin. Boundaries
AK	20.0	20.0	0.0	0.0	0.0
CA	25.0	25.0	1.0	0.0	0.0
CO	47.0	47.0	1.0	0.0	0.0
CT	0.0	0.0	0.0	0.0	0.0
DC	0.0	0.0	0.0	0.0	0.0
DE	0.0	0.0	0.0	0.0	0.0
FL	0.0	0.0	0.0	0.0	0.0
GA	0.0	0.0	0.0	0.0	0.0
IA	0.0	0.0	0.0	0.0	0.0
IL	0.0	0.0	0.0	0.0	0.0
IN	0.0	0.0	0.0	0.0	0.0
KS	0.0	0.0	0.0	0.0	0.0
KY	0.0	0.0	0.0	0.0	0.0
LA	0.0	0.0	0.0	0.0	0.0
MA	0.0	0.0	0.0	0.0	0.0
MD	0.0	0.0	0.0	0.0	0.0
ME	0.0	0.0	0.0	0.0	0.0
MI	0.0	0.0	0.0	0.0	0.0
MN	0.0	0.0	0.0	0.0	0.0
MO	0.0	0.0	0.0	0.0	0.0
MS	0.0	0.0	0.0	0.0	0.0
MT	0.0	0.0	0.0	0.0	0.0
NC	0.0	0.0	0.0	0.0	0.0
ND	0.0	0.0	0.0	0.0	0.0
OH	0.0	0.0	0.0	0.0	0.0
OK	0.0	0.0	0.0	0.0	0.0
OR	0.0	0.0	0.0	0.0	0.0
PA	0.0	0.0	0.0	0.0	0.0
RI	0.0	0.0	0.0	0.0	0.0
SC	0.0	0.0	0.0	0.0	0.0
SD	0.0	0.0	0.0	0.0	0.0
TN	0.0	0.0	0.0	0.0	0.0
TX	0.0	0.0	0.0	0.0	0.0
UT	0.0	0.0	0.0	0.0	0.0
VA	0.0	0.0	0.0	0.0	0.0
VT	0.0	0.0	0.0	0.0	0.0
WV	0.0	0.0	0.0	0.0	0.0
WY	0.0	0.0	0.0	0.0	0.0
WA	0.0	0.0	0.0	0.0	0.0
WI	0.0	0.0	0.0	0.0	0.0
WV	0.0	0.0	0.0	0.0	0.0
WY	0.0	0.0	0.0	0.0	0.0
TOTAL	480.0	480.0	1.0	0.0	0.0

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- BLM is the DOI agency responsible for leasing Federal minerals (Energy and Nonenergy solid minerals) on public lands.
- 40% of America's coal comes from public lands.
- OSM is the DOI agency responsible for regulating reclamation of coal mining operations. BLM is responsible for regulating reclamation of other federal mineral development.

# Energy and Non-Energy Solid Minerals Mine Maps

## Many Formats, Locations, and Commodities

Underground map requirements for nonenergy minerals are similar to those for energy (coal) mining operations. BLM presently manages leases and requires maps for:

### Commodities:

Coal (Nationwide)  
Potassium (NM)  
Sodium (WY)  
Lead/Zinc (MO)  
Limestone (VA)  
Gilsonite (UT)

### Locations:

State Offices  
Field Offices  
Satellite Offices  
Storage  
Archives

### Formats:

Electronic (dwg)  
Paper copies  
Blueline  
Mylar and Sepia  
Velum  
Mining/Operation Maps  
Abandonment Maps

# Mine Maps Required (Energy and Nonenergy)

**BLM requires 2 types of maps:**

## Mining Plans and Operation Maps

**Before mining can occur the lessee's plan must comply with the Mineral Leasing Act (MLA). The mining plan must demonstrate:**

- **Maximum Economic Recovery (MER) of the coal or Ultimate Maximum Recovery (UMR) of a “nonenergy” mineral deposit**
- **Production maps must show all excavations in such a manner that the production of federal minerals for any royalty reporting period can be accurately ascertained.**

## Abandonment Maps

**The permanent abandonment map demonstrates the maximum extent of the mining operations, the achievement of MER or UMR, and the geological supports left to provide future access and protect surface resources.**

# General Mine Map (Plan) Requirements

**Underground mine maps must include information such as:**

- **Name of the operator/lessee;**
- **All federal lease or license serial numbers and boundary lines;**
- **Permit number and boundary lines;**
- **True north arrow and map scale;**
- **Location, diameter, and depth of auger holes;**
- **Any unusual geologic occurrences such as dikes, faults, splits etc.;**
- **All mine workings and the date of extension of the mine workings;**
- **Location of ventilation fans and controls at the time of submittal;**
- **Known bodies of standing water in other mine workings (in, above, or below the works);**
- **Elevations of surface and underground levels of all shafts, slopes, or drifts, and mine survey stations in the roof at regular intervals in main entries, panels, or sections; and**
- **Vertical cross sections when required.**

# **FOIA CONSIDERATIONS**

## **Underground Coal Mine Map Information**

**(43 CFR 3481.3)**

- **Release of any mine map information is subject to FOIA regulations.**
- **For coal leases the following information cannot be publicly disclosed without the consent of the operator/lessee:**
  - **Geologic and geophysical data and maps pertaining to Federal recoverable coal reserves**
  - **Information obtained from an operator/lessee that constitutes trade and commercial secrets**
  - **Financial information which is privileged or confidential**
  - **Other information may be withheld under the Freedom of Information Act (5 U.S.C. 552(b)) if the operator/lessee clearly marks it as “CONFIDENTIAL INFORMATION.” All information not marked will be available for public inspection.**
- **Upon termination of a Federal lease, geologic and geophysical data and maps can be made available to the public**

# Recommendations for the Underground Mine Map Repository

## Centralized Repository

- Access for BLM
- Standardize the protocol for submitting historical underground mine maps (i.e. contacts, delivery and original map return policy)
- Affordable-Archiving and retrieving
- Protection of confidential data
- Guidance for our field offices

## New Map Standards

- Maps need to be consistent with BLM data standards
- Map data must meet BLM's needs
- Maps must meet the repository standards
- The map standard should be consistent regardless of land ownership

U.S. Department of the Interior Bureau of Land Management  
Solid Minerals Group

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