OFFICE OF SURFACE MINING

U.S. DEPARTMENT OF THE INTERIOR
OFFICE OF SURFACE MINING

NATIONAL MINE MAP REPOSITORY (NMMR)

What's OSM Doing?

- NMMR Five-Year Plan

- National Mine Map Initiative

NMMR KEY STRATEGIES

- Preserve Our Collection
- Grow Our Collection
- Expand Customer Base
- Achieve Highest Standards Of Quality
- Deliver NMMR Products And Services Efficiently
- Expand Staff And Empower Employees To Improve The NMMR

PRESERVE COLLECTION

- ■ DUPLICATE INVENTORY
  - ★ FILM
  - ★ DIGITAL

- ■ SECURE FIREPROOF CABINETS

- ■ OFFSITE BACKUP STORAGE
  - ★ NARA Evaluation

PRESERVE COLLECTION

- 133,000—70% coal

GROW COLLECTION

- IDENTIFY AND COPY PRIVATE MAP COLLECTIONS

- EXPAND RELATIONSHIPS
  - ★ BACKUP STATE COLLECTIONS
  - ★ INSTITUTIONALIZE ARCHIVAL OF MSHA CLOSURE MAPS
  - ★ ELECTRONIC PERMITTING?

6,674 maps in the VPI CONSOL Collection

Eliminate the Backlog

MSHA MINE MAPS RECEIVED BY DISTRICT

DISTRICT	NUMBER OF MAPS
1 (W-B, PA)	421
2 (Hunker, PA)	1725
3 (Morgantown, WV)	279
4 (Mt. Hope, WV)	2379
5 (Norton, VA)	2661
6 (Pikeville, KY)	2984
7 (Barbourville, KY)	2129
8 (Vincennes, IN)	185
9 (Denver, CO)	92
10 (Madisonville, KY)	8
11 (Birmingham, AL)	0
TOTAL	12,863

EXPAND CUSTOMER BASE

■ I.D. CUSTOMER NEEDS

■ PROMOTE NMMR
- ★ TECH TRANSFER
- ★ WEB
- ★ OTHER

HIGHEST QUALITY STANDARDS

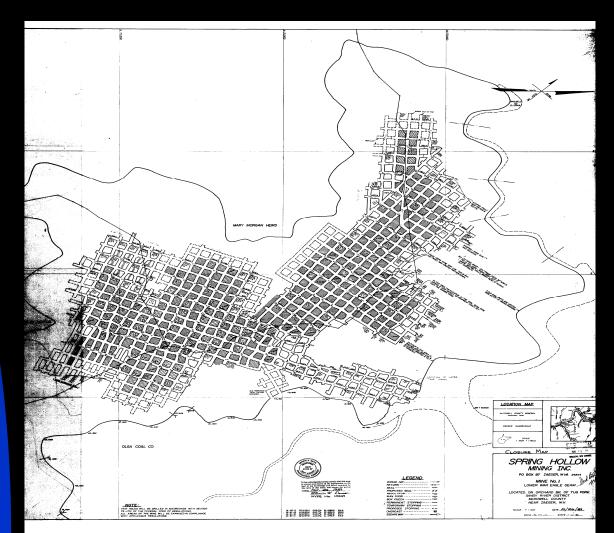■ SECURE RESOURCES FOR:

★ MICROGRAPHIC RECORDS
★ DIGITAL FILES
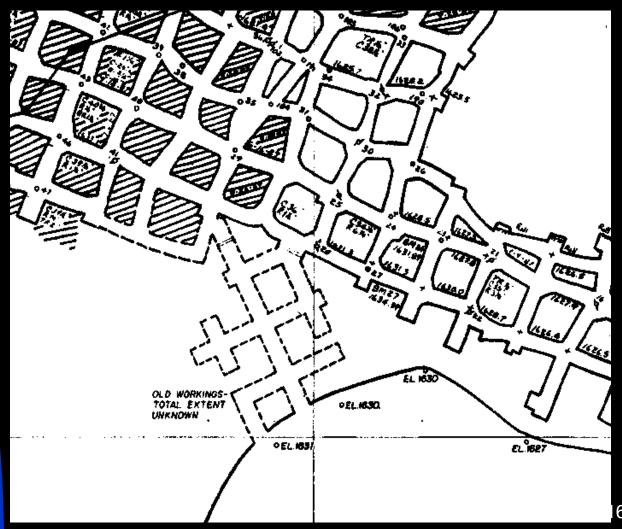
To scan or not to scan…

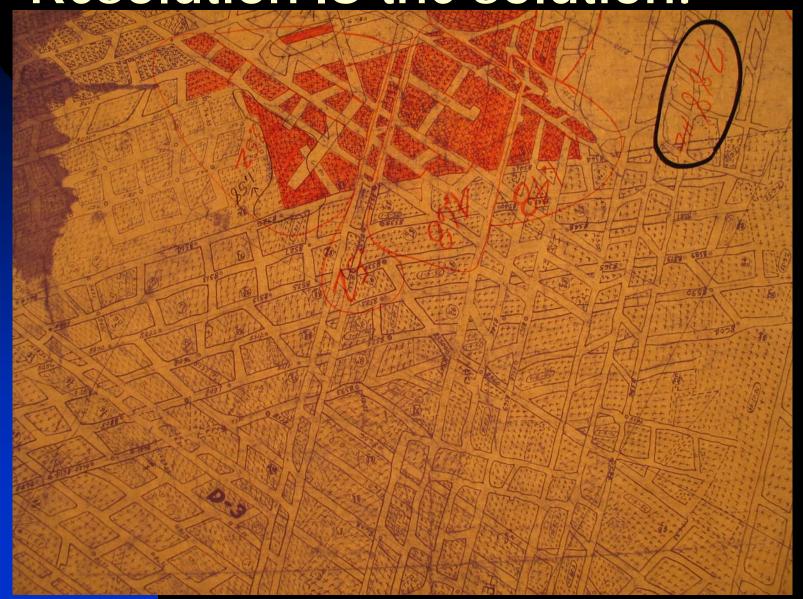# That is the question?

Resolution, Resolution, Resolution

Micrographics

Resolution, Resolution, Resolution
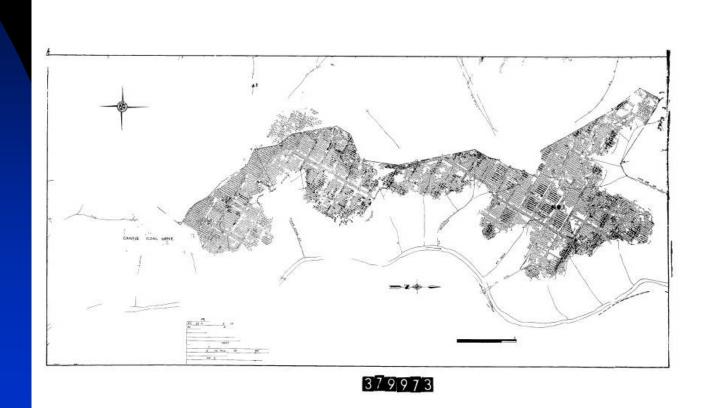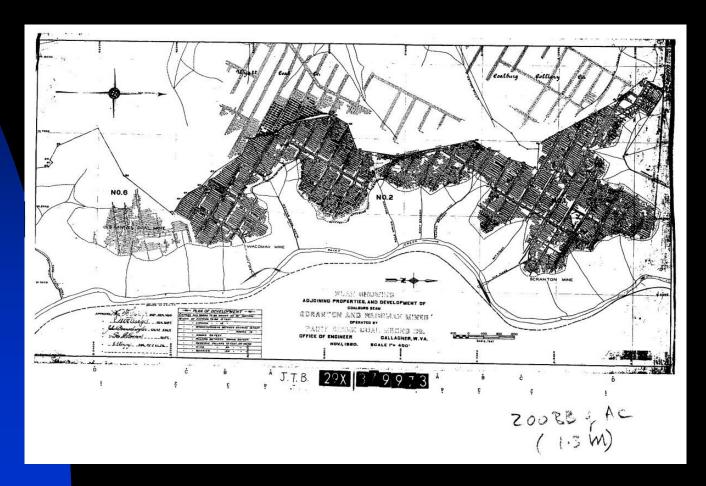
Resolution IS the solution!

DIGITAL DILEMMA

- Aperture Card
  - 400 dpi
  - 500-1000 year life

- Scan of 24" x 36" or 36" x 48" map
  - 200 dpi
  - 35-50 MB
  - Digital lifespan uncertain

400 dpi Aperture Card Scan

Aperture Card print @ 200dpi

DELIVER PRODUCTS AND SERVICES EFFICENTLY

- IMPROVE ONSITE CUSTOMER SERVICE

- MOVE TO WEB AVAILABILITY

INCREASE STAFFING; EMPOWER EMPLOYEES TO IMPROVE NMMR

- EMPLOYEE TRAINING

- EMPLOYEE RECRUITMENT

OSM MINE MAP INITIATIVE GOALS

- DEVELOP VOLUNTARY BEST PRACTICES FOR ARCHIVING MINE MAPS

- CREATE CENTERS OF EXCELLENCE

- FACILITATE EXPANDED ACQUISITION OF MINE MAPS

- WIDEN DISTRIBUTION OF MAP PRODUCTS TO CUSTOMERS

- $$$$$$!!!!!

CENTER OF EXCELLENCE

- PURCHASE STATE OF THE ART PHOTOGRAPHIC EQUIPMENT

- UPDATE DIGITAL SCANNING CAPABILITIES

- EXPAND RELATIONS WITH STATES
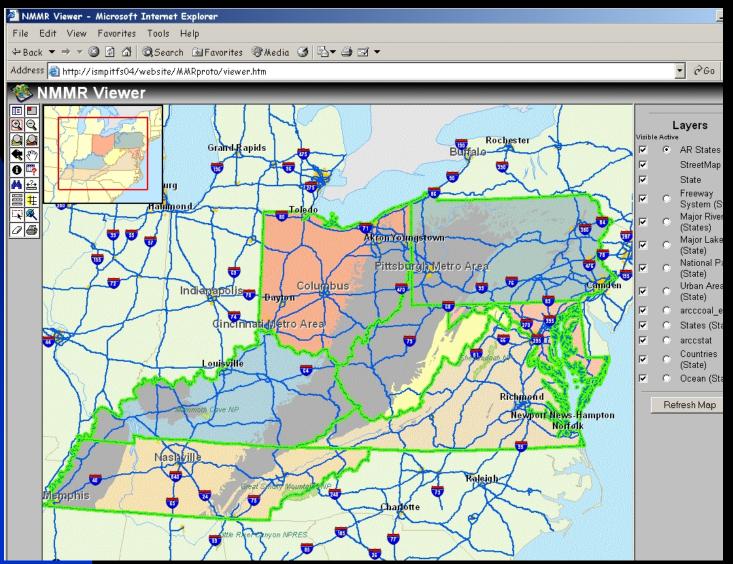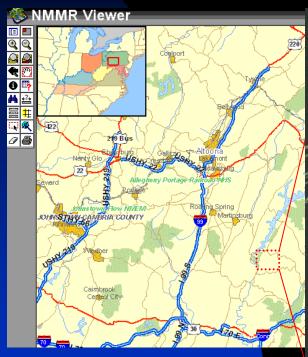
- DEVELOP INTERACTIVE WEB SITE

Obsolete?

WEB-BASED NMMR GIS PROTYPE

- **Expand public access to NMMR documents**
  - ◆ Reduce NMMR employee assistance required from the public
  - ◆ Increase time devoted to processing documents
- **Provide one site for access to all NMMR and associated digital data**
  - ◆ In-house (NMMR, AML)
  - ◆ Leverage State Web services/data

WEB-BASED NMMR GIS PROTYPE

WEB BASED NMMR GIS PROTYPE

- ArcIMS web services provide easy integration across Web Applications
- OSM and States can "share" data services, incorporating them in their respective applications