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Contents

National Mine Map Repository

Office of Surface Mining

"What we do and how we do it"

Interstate Mining Compact Commission

October 15 – 16, 2003

Louisville, KY

History – Mine Map Repository (MMR)

- 1969 MMR established by Congress.
- 1970 Placed under DOI (Bureau of Mines).
  Regional offices established:
  - Pittsburgh, PA
  - Wilkes Barre, PA (anthracite only)
  - Denver, CO (disbanded 1982)
  - Spokane, WA (disbanded 1982)
  - Juneau, AK (disbanded 1982)
- 1983 Pittsburgh and Wilkes Barre offices transferred to OSM from Bureau of Mines.
- 1996 OSM acquires Denver, Spokane and Juneau collections. Establishes Pittsburgh as the National MMR.
- Current - National MMR maintained at OSM in Pittsburgh, PA.
  - Wilkes Barre repository (anthracite only).

Number and Types of Maps

- 132,000 (approximate) maps on microfilm.
- 108,000 scanned in digital format (TIFF files).
- Most (90 %) - - east of the Mississippi.
- Primarily coal, some non-coal.
- Abandoned mines only; no active operations.
- Non-coal includes: iron; feldspar; lead; zinc; tin; salt.

Number of Maps by State

State	Coal Maps	Non-coal Maps	Total
Alabama	59	296	355
Alaska	0	2	2
Arizona	0	927	927
Arkansas	359	2	361
California	0	232	232
Colorado	2293	4747	7040
Connecticut	0	475	475
Delaware	0	4	4
Florida	0	0	0
Georgia	15	728	743
Hawaii	0	0	0
Idaho	1	576	577
Illinois	2327	357	2684
Indiana	2606	25	2631
Iowa	1	1	2
Kansas	355	246	601
Kentucky	4754	270	5024
Louisiana	0	0	0
Maine	0	541	541
Maryland	525	33	558
Massachusetts	7	53	60
Michigan	437	10382	10819
Minnesota	0	3068	3068
Mississippi	0	84	84
Missouri	4	8456	8456
Montana	7	720	727

State	Coal Maps	Non-coal Maps	Total
Nebraska	0	0	0
Nevada	0	940	0
New Hampshire	0	230	230
New Jersey	0	378	378
New Mexico	4	117	121
New York	0	1183	1183
North Carolina	9	1590	1599
North Dakota	4	1	5
Ohio	7684	465	8149
Oklahoma	127	605	732
Oregon	0	332	332
Pennsylvania	11308	434	11742
Rhode Island	1	0	1
South Carolina	0	53	53
South Dakota	2	749	751
Tennessee	794	619	1413
Texas	0	1	1
Utah	76	580	656
Vermont	1	113	114
Virginia	7485	1190	8675
Washington	174	629	803
West Virginia	46344	277	46621
Wisconsin	0	505	505
Wyoming	493	59	552

Total Coal = 88256

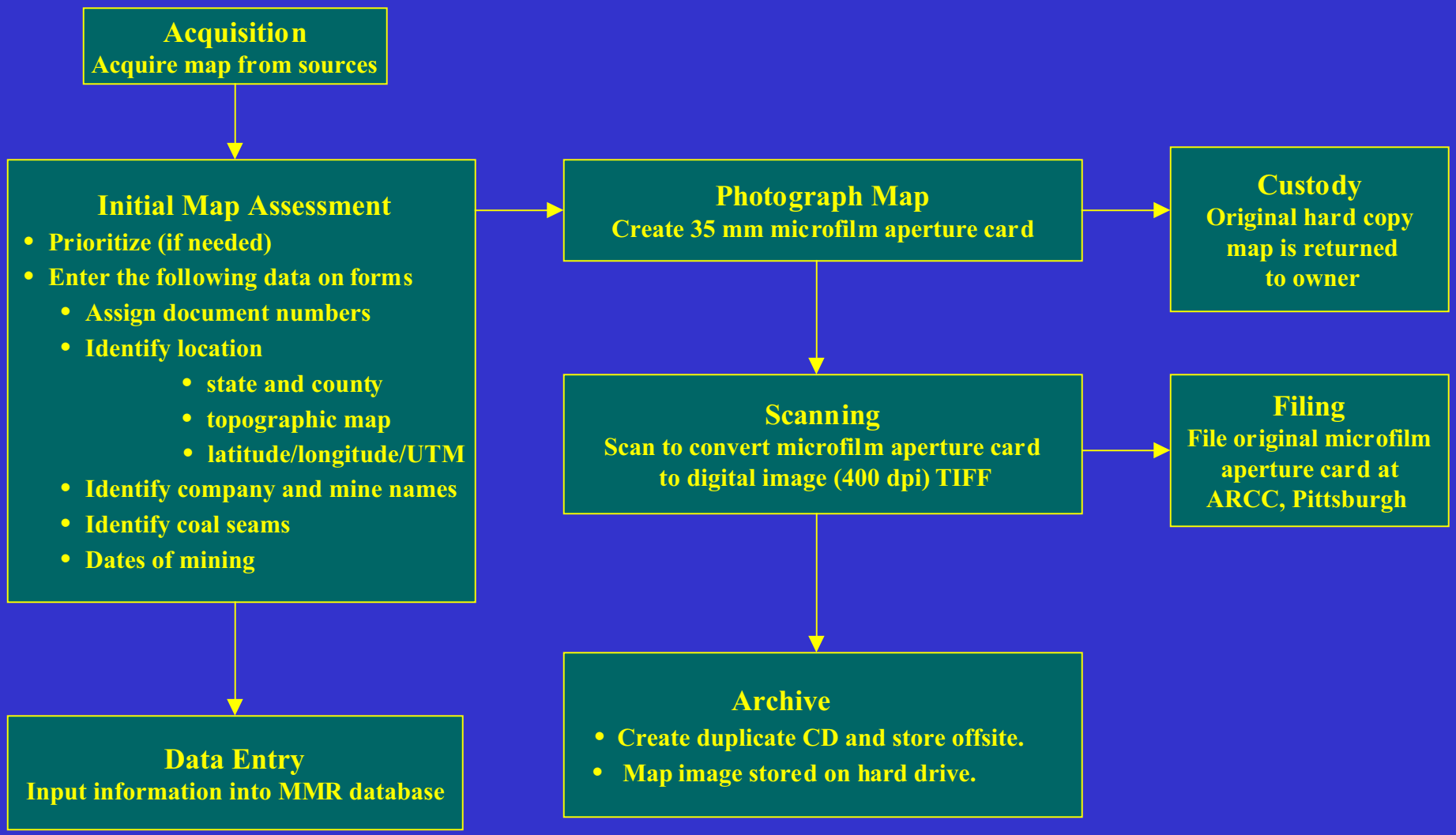
Total Non-coal = 43275

Maps Total = 131531

Sources of Maps

- State, Federal, local government agencies (e.g. MSHA; state departments mines/geological surveys).
- Mining companies.
- Engineering companies.
- Private citizens.
- Libraries.

Acquisition and Processing of Mine Maps



Clients

- Regulatory and reclamation staff.
- State highway departments.
- Homeowners – mine subsidence inquiries.
- Local government agencies – emergency planning.
- Developers – residential, commercial (malls).
- Engineering, mining companies.
- Architects, universities, law firms.
- Citizens groups.
- Environmental consultants.
- Pollution control boards.
- Realtors.
- Law-enforcement agencies, e.g. FBI.
- Historical societies.

Customer Service

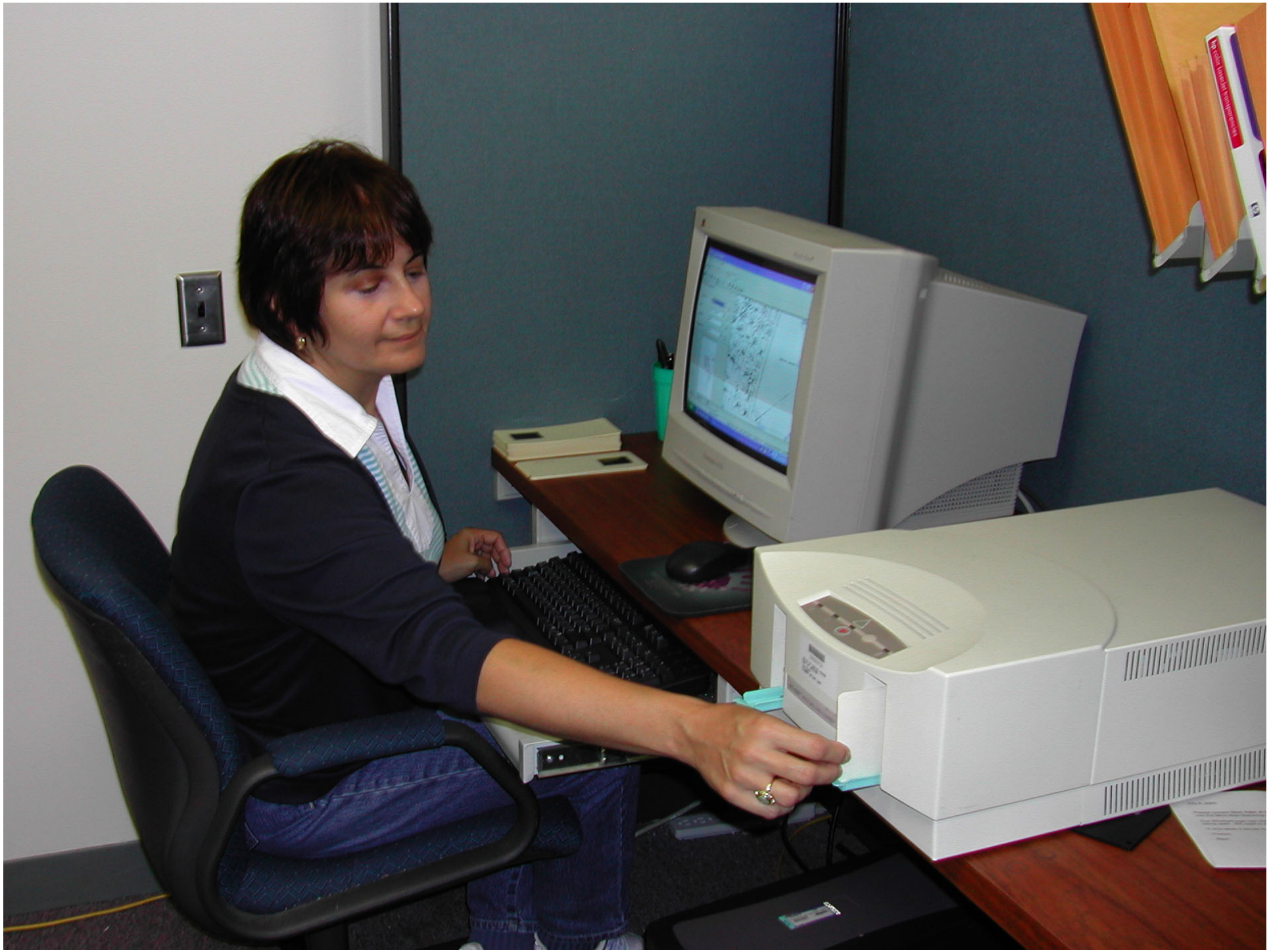
- Provide maps to customers via e-mail.
- Provide CD or DVD per customer request.
- Provide state agencies with entire inventory of maps in our system.

  Examples:

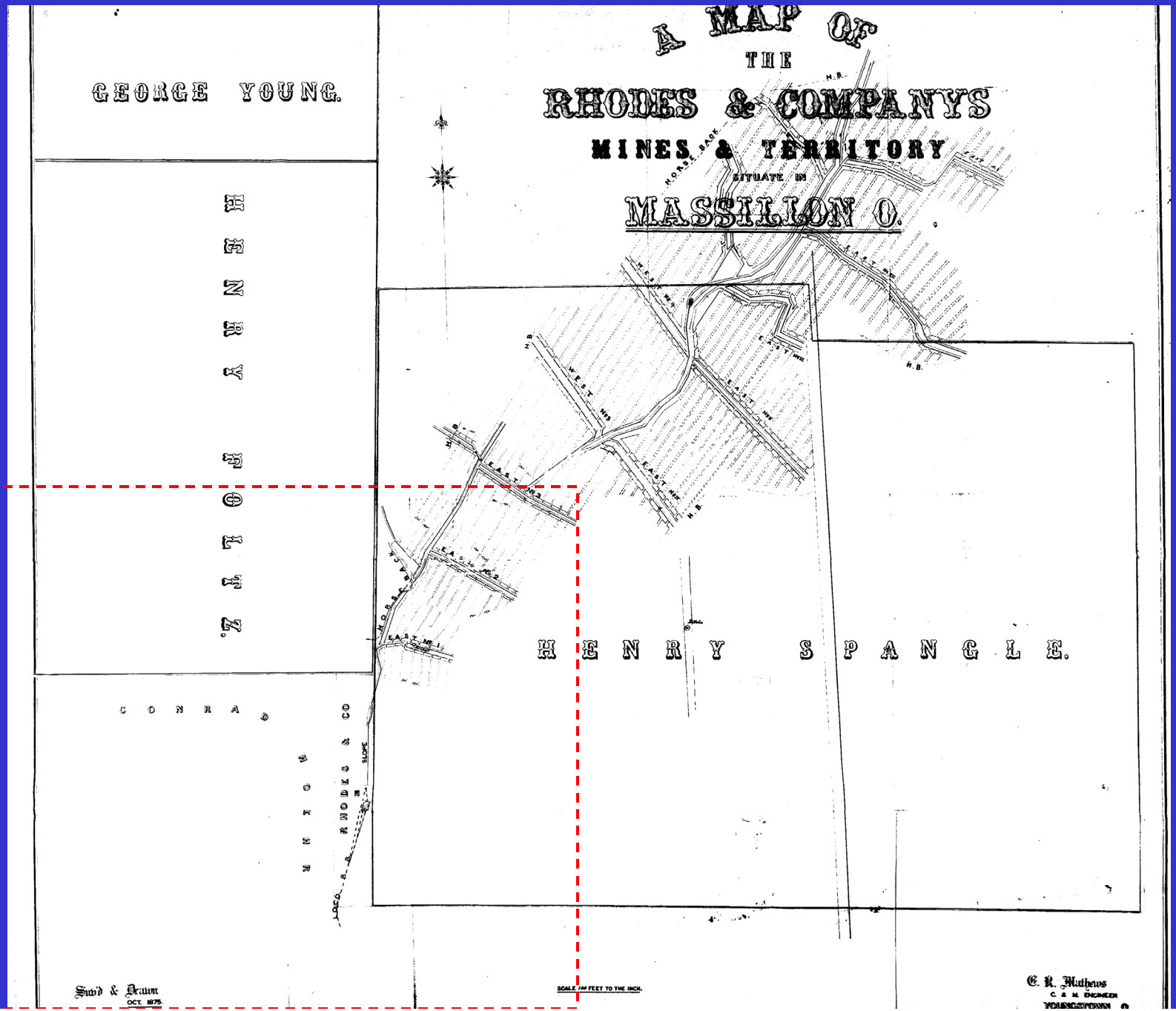
  - WV Office of Miners, health safety and training.
  - Ohio Geological Survey.

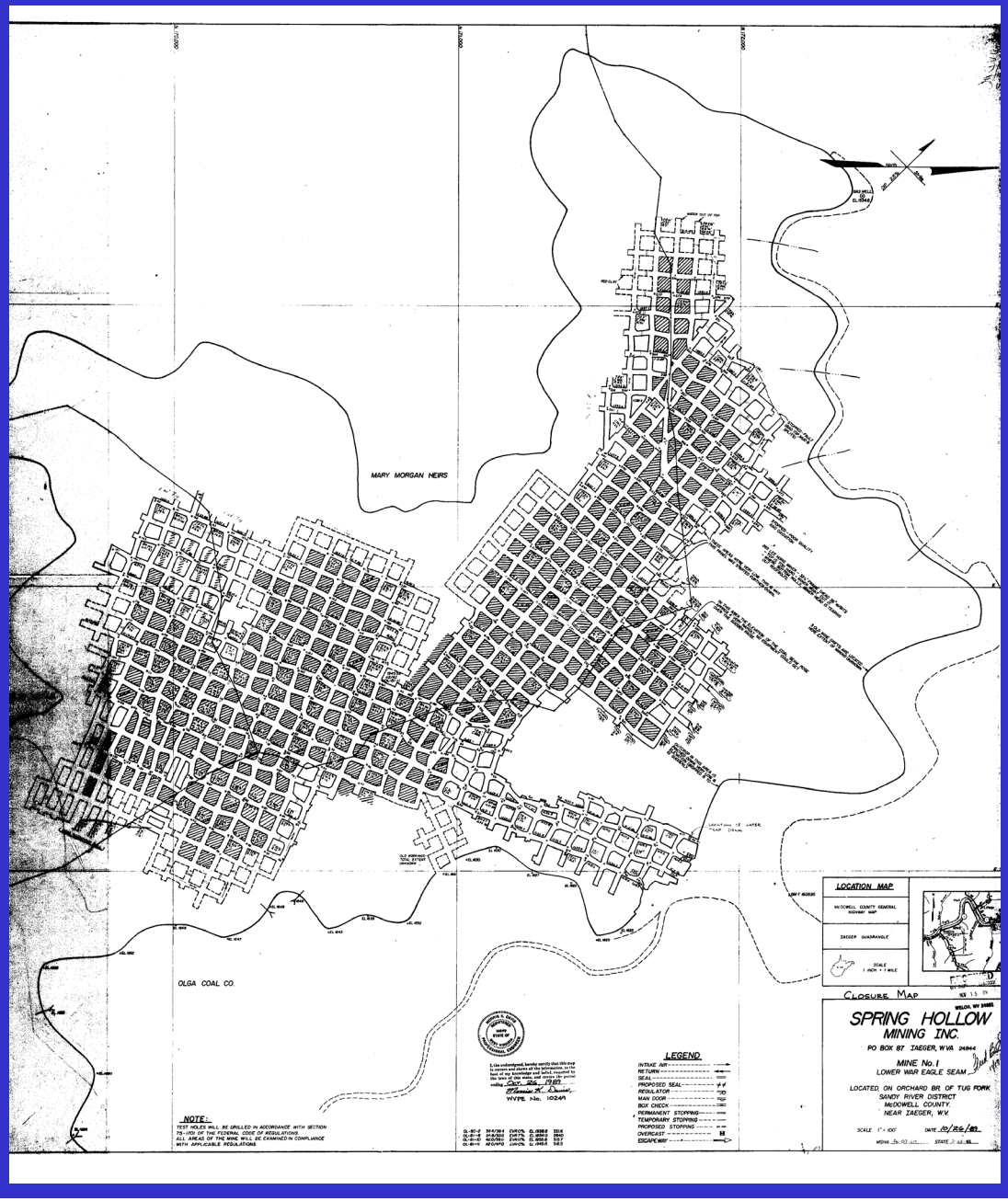
Caveats Provided to Customers

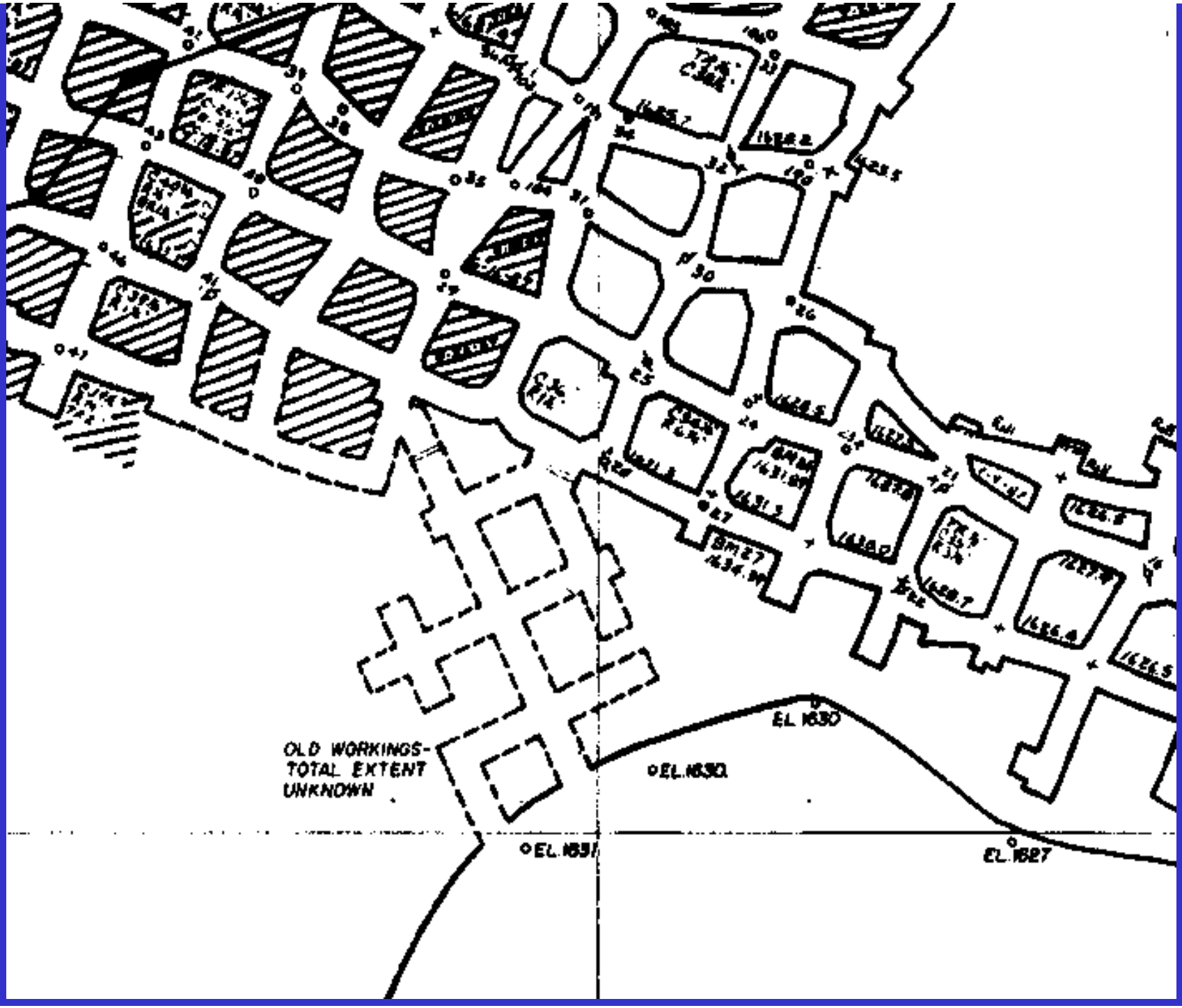
- Maps made by large companies are usually accurate.
- Accuracy of maps before 1940 is questionable.
- Accuracy of support pillars and barriers between adjacent mines may not be reliable.
- Accuracy of the workings shown near the outcrop for shallow mines is questionable.
- Older maps often have fewer recognizable surface features, therefore harder to correlate with surface.



EXIT


A MAP OF
THE
RHODES & COMPANYS
MINES & TERRITORY
SITUATE IN
MASSILLON O.
GEORGE YOUNG.
HENRY HOLLY.
CONRAD
HENRY SPANGLE.
HORSE BACK
WEST MINE
EAST MINE
H.B.
RHODES & CO
SLOPE
LOCO
Surv'd & Drawn
OCT. 1875.
SCALE 100 FEET TO THE INCH.
E. R. Mathews
C. & M. ENGINEER
YOUNGSTOWN O.

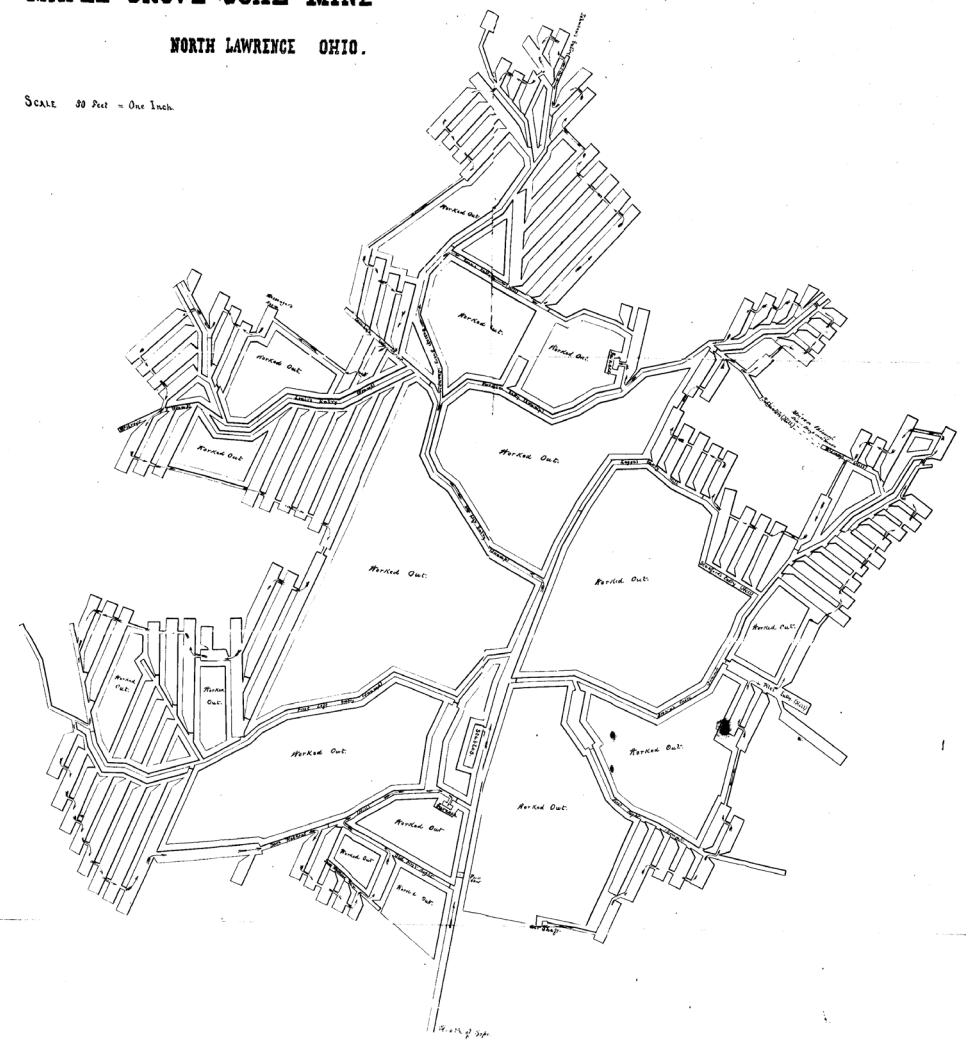

MARY MORGAN HEIRS
OLGA COAL CO.
LOCATION MAP
McDOWELL COUNTY GENERAL HIGHWAY MAP
IAEGER QUADRANGLE
SCALE 1 INCH = 1 MILE
CLOSURE MAP
SPRING HOLLOW MINING INC.
PO BOX 87 IAEGER, W.VA. 24844
MINE No. 1
LOWER WAR EAGLE SEAM
LOCATED ON ORCHARD BR OF TUG FORK
SANDY RIVER DISTRICT
McDOWELL COUNTY
NEAR IAEGER, W.V.
SCALE 1" = 100'
DATE 10/26/83
NOTE:
TEST HOLES WILL BE DRILLED IN ACCORDANCE WITH SECTION 75-1701 OF THE FEDERAL CODE OF REGULATIONS.
ALL AREAS OF THE MINE WILL BE EXAMINED IN COMPLIANCE WITH APPLICABLE REGULATIONS
WVPE No. 10249
LEGEND
INTAKE AIR
RETURN
SEAL
PROPOSED SEAL
REGULATOR
MAN DOOR
BOX CHECK
PERMANENT STOPPING
TEMPORARY STOPPING
PROPOSED STOPPING
OVERCAST
ESCAPEWAY

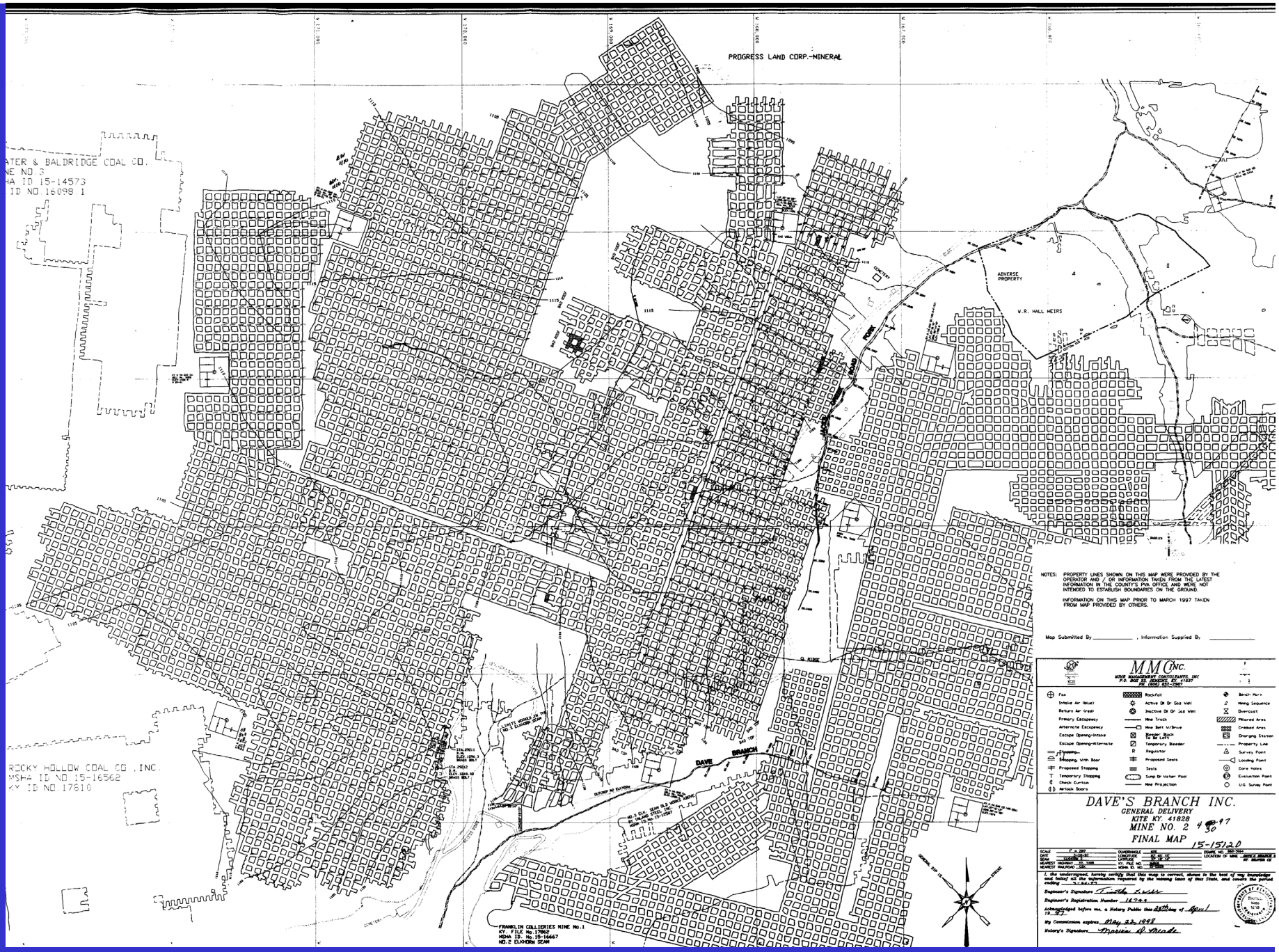

OLD WORKINGS-
TOTAL EXTENT
UNKNOWN
EL 1630
EL 1630
EL 1631
EL 1627

MAPLE GROVE COAL MINE

NORTH LAWRENCE OHIO.

SCALE 50 Feet = One Inch.


Worked Out.
Worked Out.
Worked Out.


PROGRESS LAND CORP.-MINERAL
ATER & BALDRIDGE COAL CO.
NE NO.3
HA ID 15-14573
ID NO.16098.1
ROCKY HOLLOW COAL CO., INC.
MSHA ID NO.15-16562
KY ID NO.17810
ADVERSE PROPERTY
W.R. HALL HEIRS
DAVE BRANCH
FRANKLIN COLLIERIES MINE No.1
KY. FILE No.17062
MSHA ID. No.15-16667
NO.2 ELKHORN SEAM
NOTES: PROPERTY LINES SHOWN ON THIS MAP WERE PROVIDED BY THE OPERATOR AND / OR INFORMATION TAKEN FROM THE LATEST INFORMATION IN THE COUNTY'S PVA OFFICE AND WERE NOT INTENDED TO ESTABLISH BOUNDARIES ON THE GROUND.
INFORMATION ON THIS MAP PRIOR TO MARCH 1997 TAKEN FROM MAP PROVIDED BY OTHERS.
Map Submitted By _____ , Information Supplied By _____
MMC INC.
MINE MANAGEMENT CONSULTANTS, INC
P.O. BOX 33 HENDRICKS, KY 41537
PH (606) 633-2987
Fan
Intake Air (blue)
Return Air (red)
Primary Escapeway
Alternate Escapeway
Escape Opening-Intake
Escape Opening-Alternate
Stopping
Stopping With Door
Proposed Stopping
Temporary Stopping
Check Curtain
Airlock Doors
Rockfall
Active Oil Or Gas Well
Inactive Oil Or Gas Well
Mine Track
Mine Belt W/Drive
Bleeder Block To Be Left
Temporary Bleeder
Regulator
Proposed Seals
Seals
Sump Or Water Pool
Mine Projection
Bench Mark
Mining Sequence
Overcast
Mitered Area
Crabbed Area
Charging Station
Property Line
Survey Point
Loading Point
Core Holes
Evaluation Point
U.G. Survey Point
DAVE'S BRANCH INC.
GENERAL DELIVERY
KITE KY. 41828
MINE NO. 2 4 30 97
FINAL MAP
15-15120
SCALE 1" = 200'
DATE 3-30-97
SEAM ELKHORN 2
NEAREST HIGHWAY KY. 1488
NEAREST RAILROAD CSX
QUADRANGLE NEW
LONGITUDE 82° 45' 15"
LATITUDE 37° 15' 15"
KY. FILE NO. 16062
MSHA ID NO. 15-16562
COMPILE NO. 800-2644
LOCATION OF MINE DAVE'S BRANCH INC. KY. BEAVER CK
I, the undersigned, hereby certify that this map is correct, shown to the best of my knowledge and belief all the information required by the mining laws of this State, and covers the period ending 3-30-97
Engineer's Signature Timothy L. Wilder
Engineer's Registration Number 16744
Acknowledged before me, a Notary Public this 28th day of April, 19 97
My Commission expires May 22, 1998
Notary's Signature Marian D. Meade
Timothy Wilder 16744 REGISTERED PROFESSIONAL ENGINEER

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

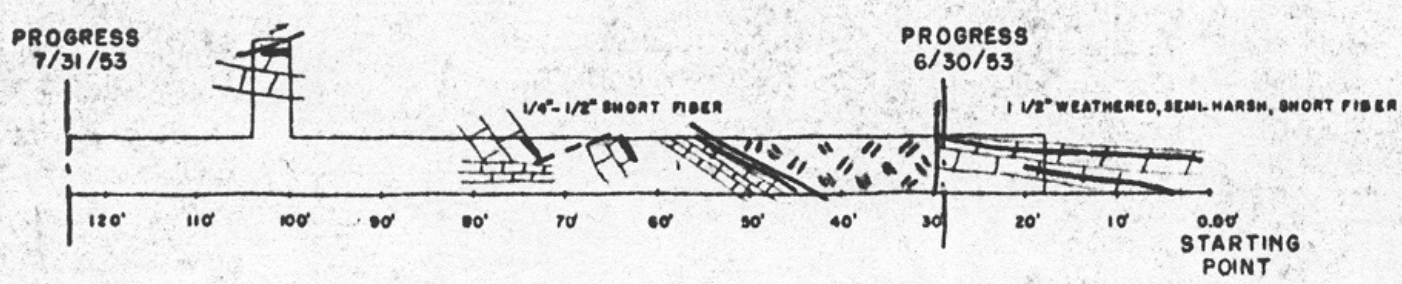
REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

DMA-1776X, Contract Idm-E419, Sorsen Asbestos Corporation
Salt River Asbestos Claims
Gila County, Arizona

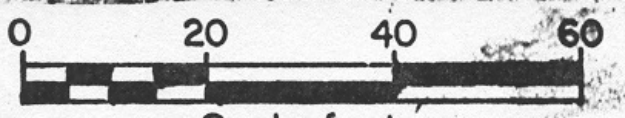
Completion Report

Robert W. Ageton, Mining Engineer
U.S. Bureau of Mines

October 1953



SECTION A - A'



SCALE 1" = 20'

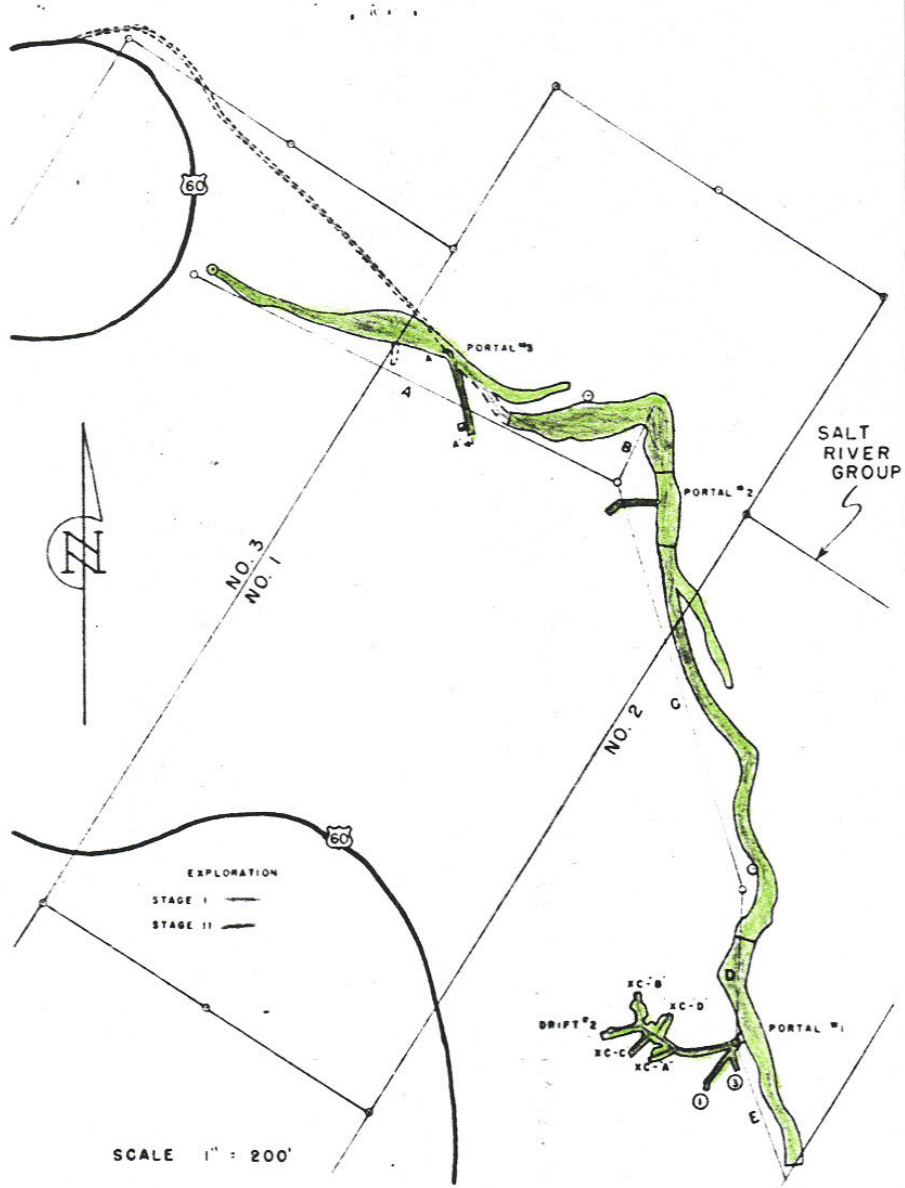
DMEA DOCKET 1776-A

CONTRACT Idm - E419

AUGUST 10, 1953

FIGURE 4

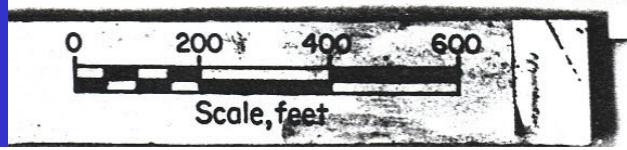
SECTION A-A - PORTAL NO. 3 - SORSEN-WILLIAMS MINING CO.



SEPT. 1953 DMEA-1776-X CONTRACT Idm-E-419

FIGURE 2 CLAIM AND MINE MAP

SORSEN ASBESTOS CORPORATION



Web Site Development

Purpose:

- Create a web site with national database.
- Provide online retrieval of maps and related information.
- Provide links to state mine map resources on the web.

Current activity:

- Prototype being developed for Glassport, PA quadrangle.
- Geo-referencing of mine maps to world co-ordinates.

A few issues requiring resolution:

- Same-named streets.
- Locations in rural areas.
- Multiple coal seams.
- New construction, developments.
- Accessible to the disabled (use of colors).
- Overburden calculations.
- Accurate, up-to-date street software.

Public Introduction - Microsoft Internet Explorer provided by OSM HQ Customer Support Center

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites Media History Mail Print Edit Discuss

Address http://192.243.129.8/scripts/esrimap.dll?name=MineMaps&cmd=novice Go Links

U. S. Department of the Interior

Office of Surface Mining

Mine Map Repositories

Create maps showing where coal has been underground mined in western Pennsylvania. You may create a map for a selected **Street Address** or **Street/Road Name** or **ZIP Code** or **County** or **Longitude/Latitude.** You may then zoom in or out or recenter the map. (see the file Detailed Instructions) If coal has been mined under your house you .....

Create Maps

Return to Mine Map Repositories Home Page

Internet

Public Create Maps - Microsoft Internet Explorer provided by OSM HQ Customer Support Center

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Address http://192.243.129.8/scripts/esrimap.dll?name=MineMaps&cmd=pubcreat.htm&sid=9812 Go Links

U. S. Department of the Interior

Office of Surface Mining

Mine Map Repositories

Create maps showing where coal has been underground mined in western Pennsylvania by:

Street Address

Street/Road Name

Zip Code

County

Done Internet

Search by State/Street Address - Microsoft Internet Explorer provided by OSM HQ Customer Support Center

File Edit View Favorites Tools Help

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Address http://192.243.129.8/scripts/esrimap.dll?name=MineMaps&cmd=pubaddr.htm&sid=9812 Go Links

U. S. Department of the Interior

Office of Surface Mining

Mine Map Repositories

Search for where coal has been underground mined by State/Street Address

State PENNSYLVANIA and Address 5 Woodside Road

Find it

Done Internet

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File Edit View Favorites Tools Help

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Address ://192.243.129.8/scripts/esrimap.dll?name=MineMaps&cmd=findpubstaddr&sid=9812&STATE=PA&address=5+woodside+Road Go Links

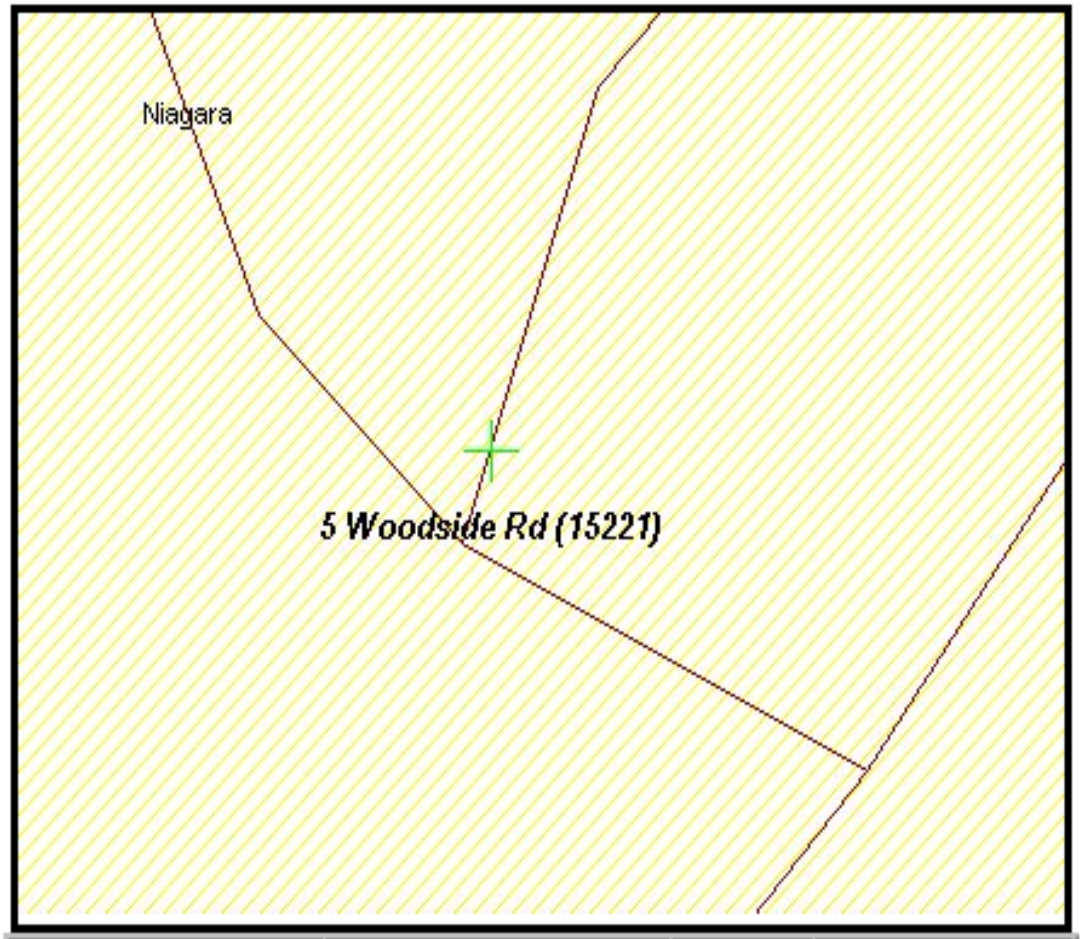
Map Legend

- Pittsburgh Coal Seam
- Upper Freeport Coal Seam
- Redstone Coal Seams
- Counties
- US Interstate Highways
- Major Roads
- Allegheny County Roads
- Rivers
- Lakes
- Latitude and Longitude

Navigate to the area you are interrested in using the controls below below the map. When you have located the

return help

Image size 450x350



Zm In 2X Zm Out 2X Pan More Info.

Done Internet

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Address http://192.243.129.8/scripts/esrimap.dll?name=MineMaps&cmd=PubSrchZip&sid=9811&STATE=PA&ZIP=15228 Go Links

Coal Mine Information

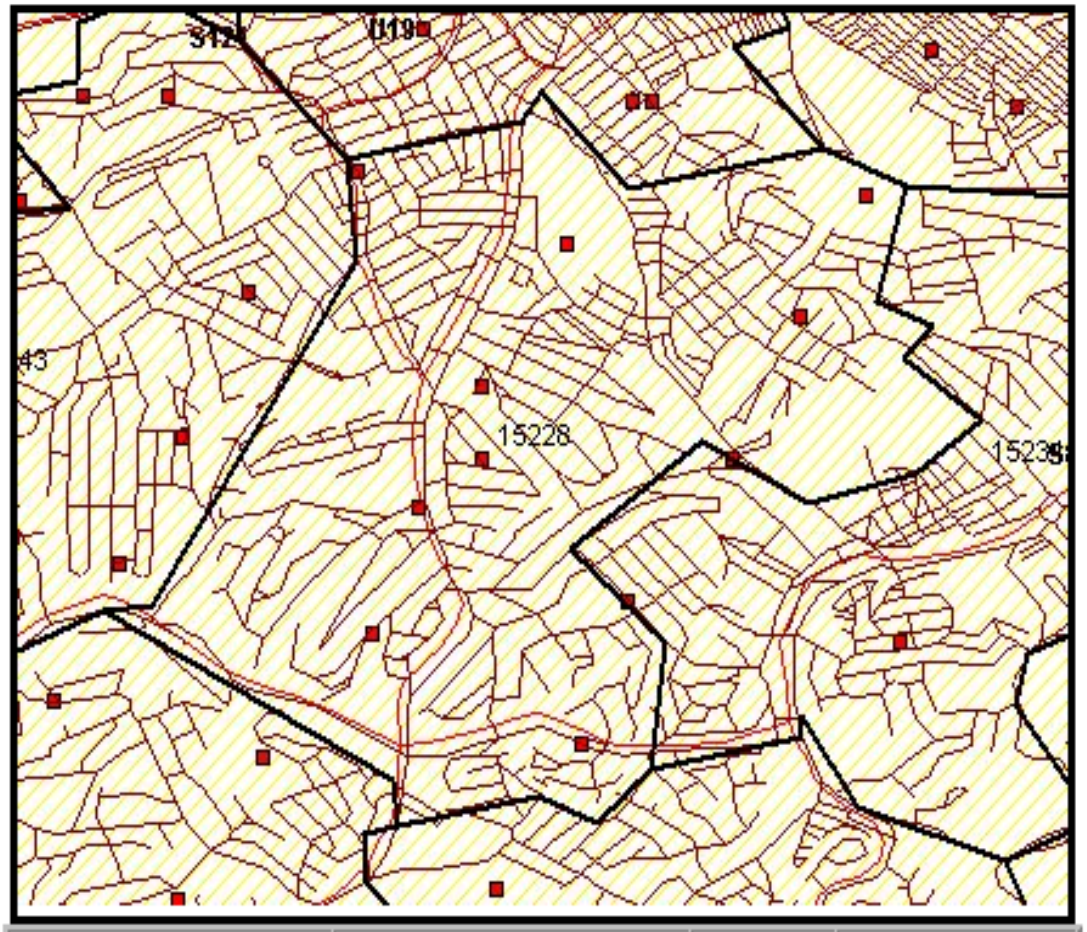
- [Mine Maps]
- [WPA Mine Location Maps]
- [Pittsburgh Coal Seam]
- [Upper Freeport Coal Seam]
- [Redstone Coal Seams]

Basic Demographic Shapes

- [Counties]
- [US Interstate Highways]
- [Major Roads]

return help redraw

Image size 450x350



Zm In 2X Zm Out 2X Pan Req.Info.

Done Internet

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Address http://192.243.129.8/scripts/esrimap.dll?name=MineMaps&cmd=PubSrchZip&sid=9811&STATE=PA&ZIP=15228 Go Links

Coal Mine Information

- [x] Mine Maps
- [ ] WPA Mine Location Maps
- [x] Pittsburgh Coal Seam
- [x] Upper Freeport Coal Seam
- [x] Redstone Coal Seams

Basic Demographic Shapes

- [x] Counties
- [x] US Interstate Highways
- [x] Major Roads

return help redraw

Image size 450x350

Identification Items

The following items were near the point you clicked.

Map Number / Mine Name	Options
382457 / MANSFIELD MINE	view download

Return to Map

Done Internet

Mine Locator - Microsoft Internet Explorer provided by OSM HQ Customer Support Center

File Edit View Favorites Tools Help

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Address http://192.243.129.8/scripts/esrimap.dll?name=MineMaps&cmd=PubSrchZip&sid=9811&STATE=PA&ZIP=15228 Go Links

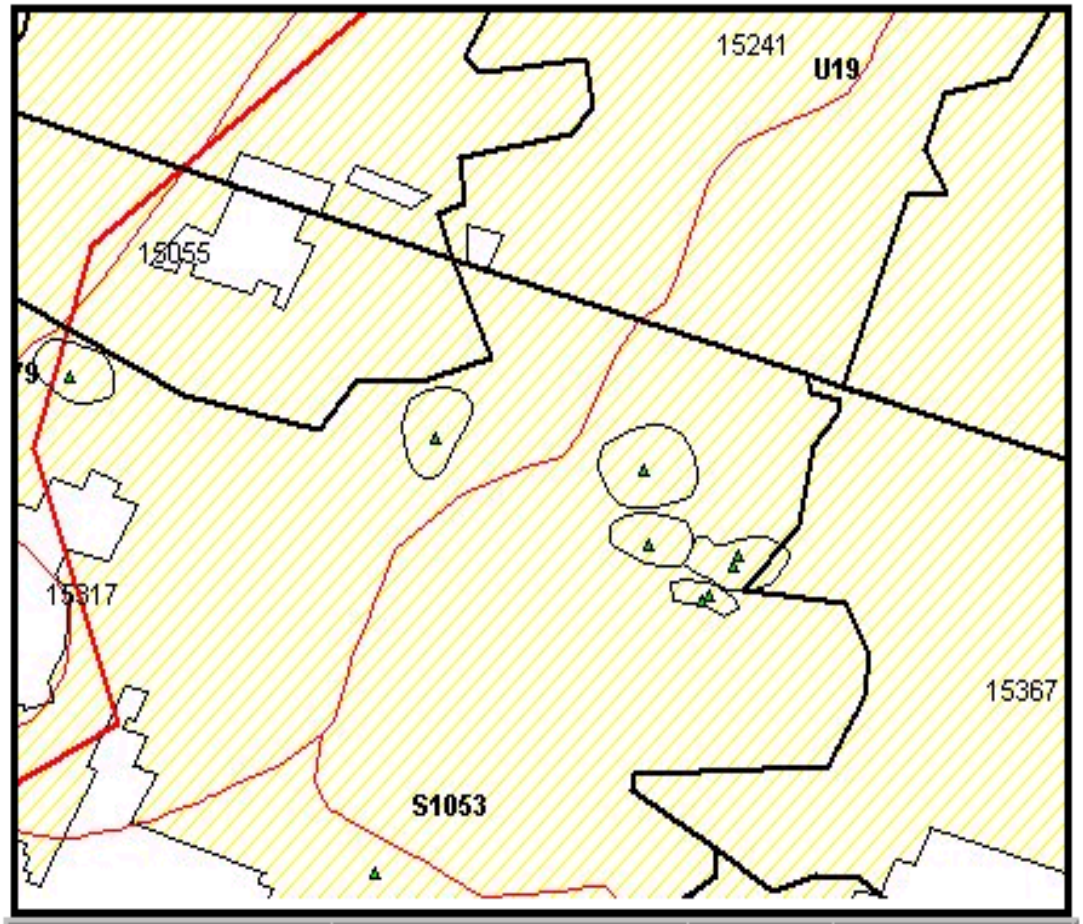
- Allegheny County Roads
- Rivers
- State Capitals
- Lakes
- Latitude and Longitude
- USA 5-digit Zipcodes
- USA Cities
- Quadrangles
- 104th Congr.Distr.

Areas of Special Interest

- OSM Problem Areas
- Pennsylvania

return help redraw

Image size 450x350



Zm In 2X Zm Out 2X Pan Req.Info.

Internet

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Back to Map Frame Content

- Allegheny County Roads
- Rivers
- State Capitals
- Lakes
- Latitude and Longitude
- USA 5-digit Zipcodes
- USA Cities
- Quadrangles
- 104th Congr.Distr.

Areas of Special Interest

- OSM Problem Areas
- Pennsylvania

return help redraw

Image size 450x350

Identification Items

The following items were near the point you clicked.

AML Problem Area	Options
PA000591EMA - ABINGTON DRIVE	view
PA000591SGB - ABINGTON DRIVE	view

Return to Map

Internet

Aml Problem Area Display - Microsoft Internet Explorer provided by OSM HQ Customer...

Problem Area **PA000591SGB**	PA Name **ABINGTON DRIVE**
Planning Unit **346**	PU Name **MOUNT LEBANON**
Longitude **80 5 6**	County **WASHINGTON**
Latitude **40 16 52**	Quadrangle **BRIDGEVILLE**
FIPS **42125** Congr. Dist **20**	Watershed
Mining Type: **Underground**	Surface Owners: **none**
Ore Types: **none**	

Problem	Unfunded		Funded		Completed	
Priority / Prob.Typ	Units	Costs	Units	Costs	Units	Costs
3 / SP	4.0	200,000	0.0	0	0.0	0

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Address http://192.243.129.8/scripts/esrimap.dll?name=MineMaps&cmd=PubSrchZip&sid=9811&STATE=PA&ZIP=15228 Go Links

- [x] Allegheny County Roads
- [x] Rivers
- [ ] State Capitals
- [x] Lakes
- [x] Latitude and Longitude
- [x] USA 5-digit Zipcodes
- [ ] USA Cities
- [ ] Quadrangles
- [ ] 104th Congr.Distr.

Identification Items

The following items were near the point you clicked.

AML Problem Area	Options

Expert Map Intro - Microsoft Internet Explorer provided by OSM HQ Customer Support Center

File Edit View Favorites Tools Help

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Address http://192.243.129.8/scripts/esrimap.dll?name=MineMaps&cmd=expert Go Links

U. S. Department of the Interior

Office of Surface Mining

Mine Map Repositories

Create Maps showing the general boundaries of where coal has been mined in Western Pennsylvania. Do OSM's Mine Map Repositories have a map(s) of old underground coal mine(s) under land of interest to you? To find out, create a map showing the locations of old underground coal mines whose maps are available at OSM's Mine Map Repository. You may create a map for a selected **Street Address** or **Street/Road Name** or **ZIP Code** or **County** or **Longitude/Latitude.** You may then zoom in or out or recenter the map. (see the file Detailed Instructions) If you do find mine(s) under land of interest to you, xxxxxxxxxx

Continue to Maps

Done Internet