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Bedrock Geology of Hardin County, Illinois

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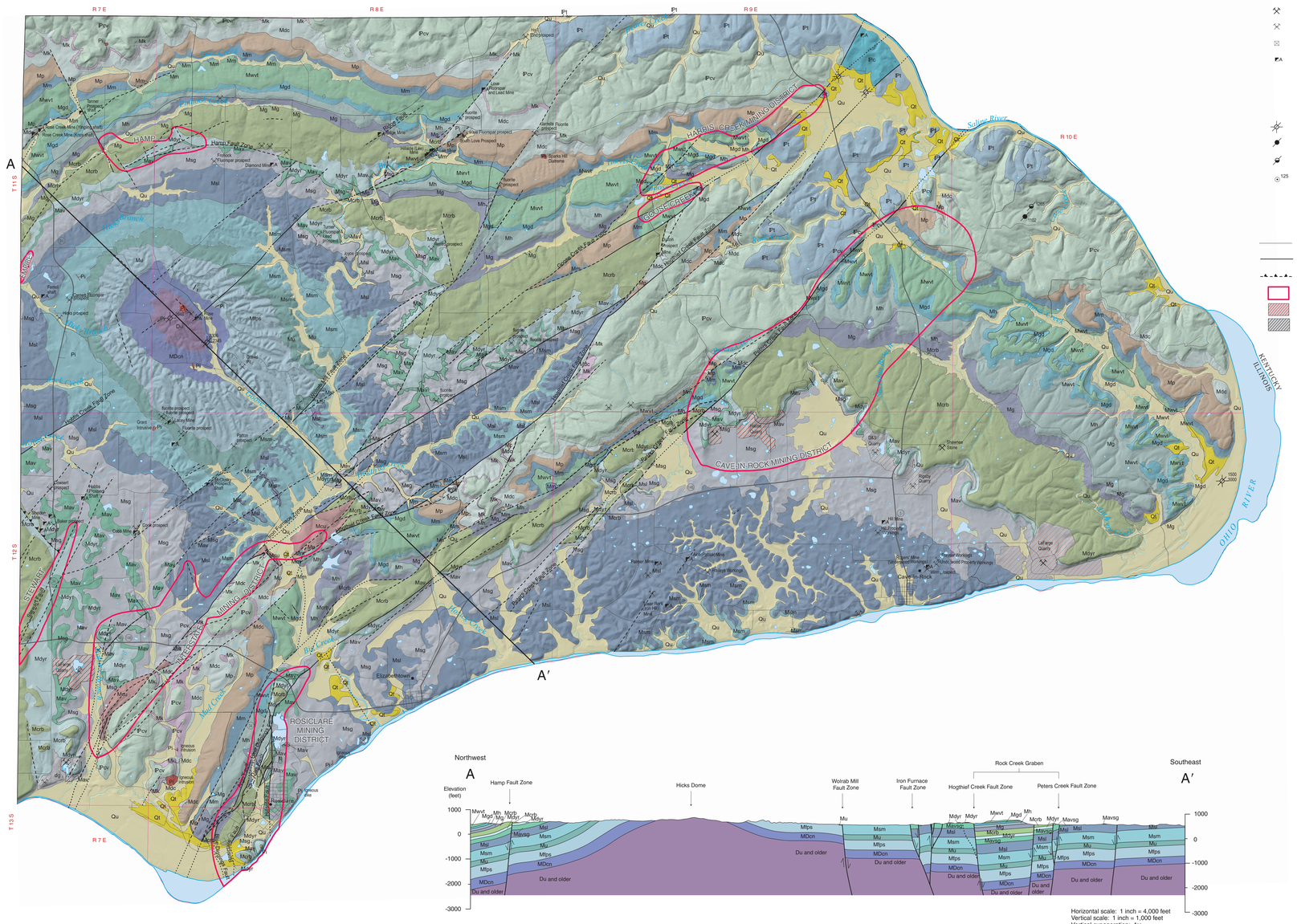
with contributions by W.J Nelson and J.A. Devera
2014

STATEMAP Hardin County -BG



Symbols

- Dike
- Drift mine, abandoned
- Pit or quarry, active
- Pit or quarry, abandoned
- Raise or winze mine
- Shaft mine, abandoned

Note: mines and quarries within mining districts are shown on map sheet 2.

Drill Holes

- Oil well, dry and abandoned
- Oil well, productive and abandonded
- Show of oil, abandonded
- 125 Numeric label indicates total depth of boring in feet.

Line Symbols

solid where certain, dashed where inferred, dotted where concealed

- Contact
- Fault
- Thrust fault 1st inferred
- Mining districts (see inset maps)
- Active quarry
- Abandoned quarry

AGE	SERIES	FORMATION AND MEMBERS	MAP SYMBOL	THICKNESS (FEET)	
QUATERNARY	Holocene	Quaternary Terraces	Qt	0–150	
	Pleistocene	Quaternary undifferentiated	Qu		
					Unconformity
PERMIAN	Leonardian	Permian Igneous dikes and sills	Pi	0–30 wide	
	Leonardian / Desmoinesian	Carbondale Formation	IPc	345–410	
PENNSYLVANIAN	Desmoinesian	Tradewater Formation	IPt	350–630	
	Atokan / Morrowan	Caseyville Sandstone	IPcv	300–565	
					Unconformity
MISSISSIPPIAN	Chesterian	Kinkaid Limestone	Mk	0–100	
		Degonia Formation (0–30); Clore Formation (0–100)	Mdc	±100	
		Palestine Sandstone	Mp	0–80	
		Menard Limestone	Mm	80–130	
		Waltersburg Formation (30–60); Vienna Limestone (5–30); Tar Springs Sandstone (70–110)	Mwvt	120–180	
		Glen Dean Limestone	Mgd	40–70	
		Hardinsburg Sandstone	Mh	90–130	
		Golconda Limestone	Mg	100–150	
	Chesterian / West Baden Sandstone	Cypress Sandstone (80–100); Ridenhower Formation (5–30); Bethel Sandstone (80–100)	Mcrb	± 200	
					Local Unconformity
	Chesterian / Posht Limestone	Downeys Bluff Limestone (25–55); Yankeetown Formation (5–30); Renault Limestone (15–45)	Mdyr	60–100	
		Aux Vases Sandstone	Mav	10–40	Mavsg (cross section only)
		Ste. Genevieve Limestone	Msg	150–200	
	Valmeyeran	St. Louis Limestone	Msl	300–400	
		Salem Limestone	Msm	425–525	
		Ullin Limestone	Mu	125–360	
		Fort Payne Formation (270–615); Springville Shale (10–30)	Mfps	310–530	
	Kinderhookian	Chouteau Limestone	MDcn	0–10	
DEVONIAN	Upper	New Albany Shale: Hannibal Shale mbr.		0–30	320–420
		New Albany Shale: Saverton Shale mbr.; Grassy Creek Shale mbr.; Sweetland Creek Shale mbr.		± 400	
		New Albany Shale: Blocher Sh.mbr.			
					Unconformity
	Middle	St. Laurent Formation		70–110	
					Unconformity
		Tioga Bentonite bed (0–0.6 ft.); Grand Tower Limestone; Dutch Creek SS. mbr. (0–30 ft.)	Du	140–200	± 400
	Lower	Clear Creek Chert		± 200	

Shaded relief and contours derived from the National Elevation Dataset, accessed 2012. Vector base data from 2013 TIGER/Line Shapefiles provided by the United States Census Bureau.

North American Datum of 1983 (NAD 83)
Projection: Universal Transverse Mercator, zone 16

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ROAD CLASSIFICATION

Local road — State Route

SCALE 1:48 000

1 1/2 0 1 2 3 4 MILES

1 .5 0 1 2 3 4 5 KILOMETERS

1½°
TRUE NORTH
MAGNETIC NORTH
APPROXIMATE MEAN DECLINATION, 2014

Geology based on field work by Bradley King, Joseph Mulvaney-Norris, David Malone, Adam Kittler, Eric Munson, and Brett Howell, 2008–2014.

Digital cartography by Jennifer E. Carrell, Illinois State Geological Survey.

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This map has not undergone the formal Illinois Geologic Quadrangle map review process. Whether or when this map will be formally reviewed and published depends on the resources and priorities of the ISGS.

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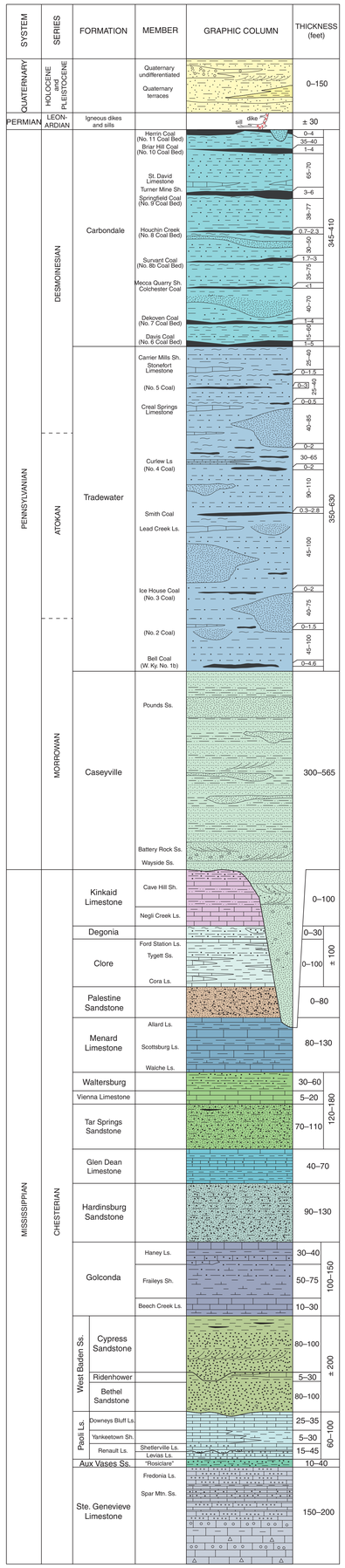
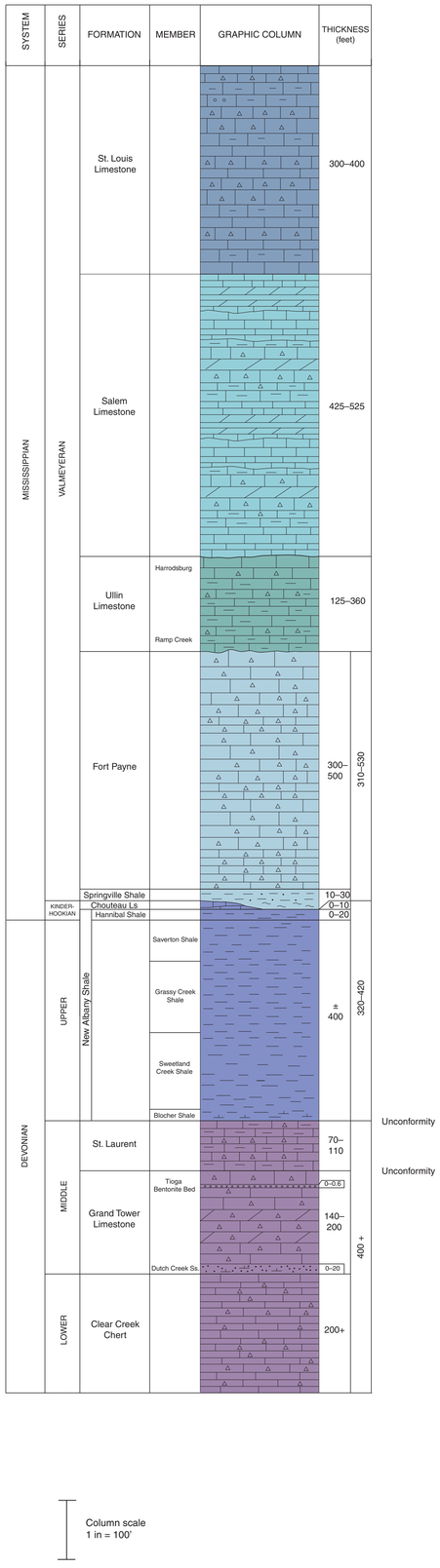
HARDIN COUNTY GRAPHIC COLUMN

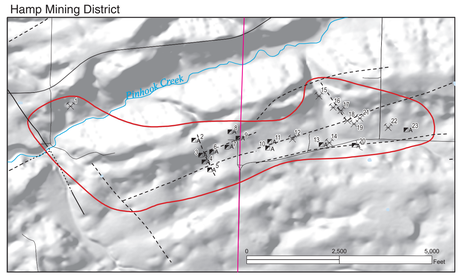




Column scale
1 in = 100'

HARDIN COUNTY MINING DISTRICTS

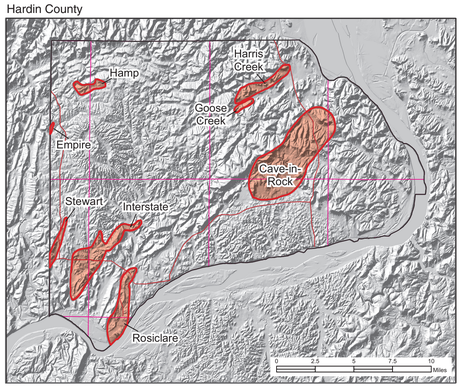
Hamp Mining District



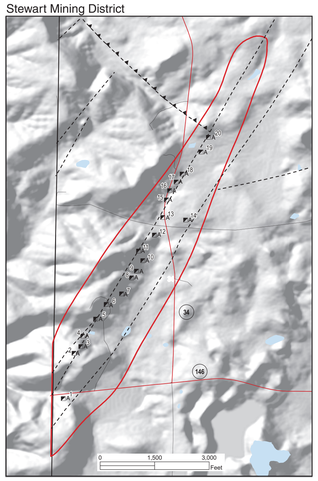
Hamp Mining District

1 Jacob Hamp prospect
2 Hamp Mine
3 Hamp Mine
4 Hamp Mine
5 Hamp Mine
6 Hamp Mine
7 Hamp Mine
8 Hamp Mine
9 Hamp Mine
10 Hamp Mine
11 Hamp Mine
12 Hamp prospect
13 Hamp Mine
14 Hamp prospect
15 Weidman Fluorspar prospect
16 Weidman Fluorspar prospect
17 Weidman Fluorspar prospect
18 Weidman Fluorspar prospect
19 unknown
20 Hamp Mine
21 Weidman Fluorspar prospect
22 Carnett Fluorspar prospect
23 Williams Fluorspar prospect

Hardin County



Stewart Mining District



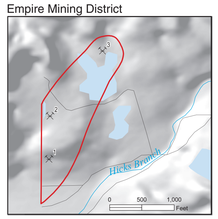
Symbols

- Drift mine, abandoned
- Pit or quarry, active
- Pit or quarry, abandoned
- Raise or winze mine
- Shaft mine, abandoned
- Mining district
- Mined-out area
- Faults, solid where certain, dashed where inferred, dotted where concealed
- Thrust fault, 1st inferred
- State route
- Local road

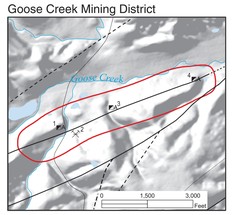
Stewart

1 Mackey prospect
2 Jefferson Mine, No. 2 shaft
3 Jefferson Mine, No. 1 shaft
4 Humm Mine and Mill
5 Williams Mine (No. 3 shaft)
6 Williams Mine (No. 2 shaft)
7 Williams Mine (No. 1 shaft)
8 Mackey Group, No. 4 shaft
9 Mackey Group, No. 3 shaft
10 Mackey Group, No. 2 shaft
11 Mackey Group, No. 1 shaft
12 Stewart Mine (No. 1 shaft)
13 Stewart Mine (No. 2 shaft)
14 unknown
15 Stewart shaft
16 Stewart Mine (No. 3 shaft)
17 Stewart Mine (No. 4 shaft)
18 Stewart Mine (No. 5 shaft)
19 Baker Mine, No. 1 shaft
20 Baker Mine, Old shaft

Empire Mining District



Goose Creek Mining District



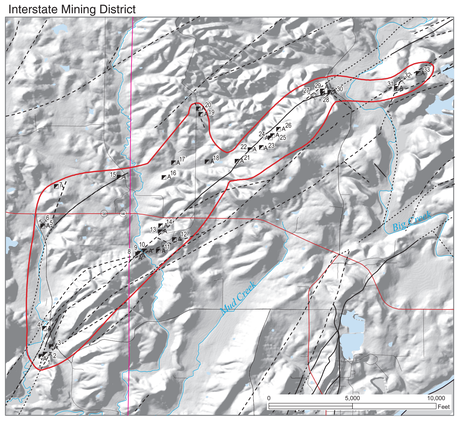
Empire

1 unknown
2 unknown
3 Fowler Prospect

Goose Creek

1 Goose Creek Mine
2 Oxford Prospect
3 Hoeb Mine
4 Green (Spivey) Mine

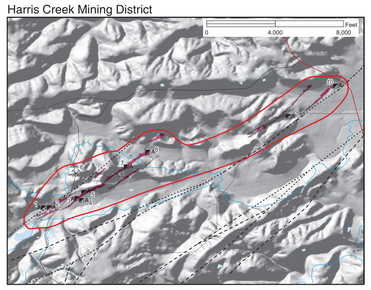
Interstate Mining District



Interstate

1 Cox Mine shaft
2 Cox Mine shaft
3 Cox Property, prospect shafts
4 Tri-State (Miller) Mine
5 Rahn Mine
6 Rahn Crystal prospect
7 Pell Mine
8 Dubois Property, No. 4 shaft
9 Dubois Property No. 3 shaft
10 Dubois Property (Fisher shaft)
11 Dubois Mine
12 Lavender Mine
13 Indiana Mines
14 Indiana Mines
15 Twitchell Mine
16 Preen Mine
17 F. Twitchell shaft
18 Webber Wood Mine
19 J.M. Jackson Property
20 J.M. Jackson Property
21 Gibbons Mine
22 K and R Mine
23 Austin shaft
24 Interstate No. 1
25 Austin Mine
26 Cullum Mine
27 Martin Mine
28 Martin Mine (pit)
29 Interstate No. 2
30 Interstate Prospect shaft
31 Montgomery Prospect shaft
32 Peckenwood prospect
33 Sweat (Berry) Mine

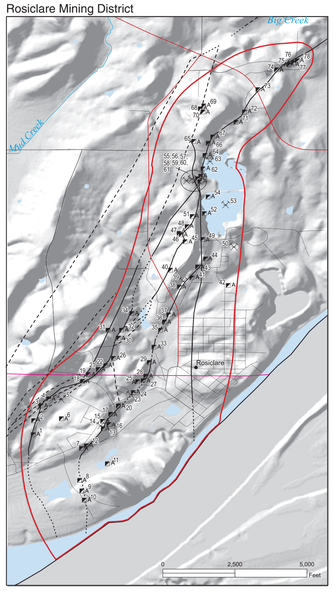
Harris Creek Mining District



Harris Creek

1 Denton Mine
2 Denton Mine
3 Denton Mine
4 Denton Mine
5 Denton Mine
6 unknown
7 Denton Mine
8 Denton Mine
9 Annabel Lee Mine
10 Annabel Lee Mine

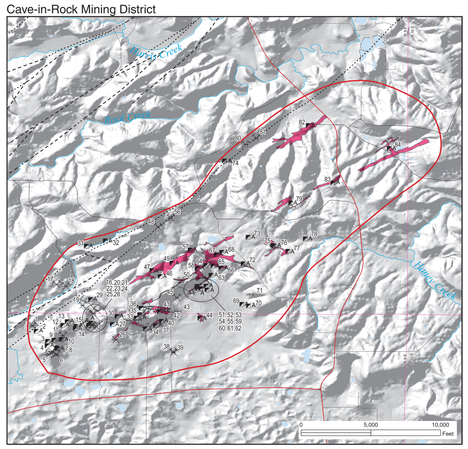
Rosiclare Mining District



Rosiclare

1 South shaft
2 Middle Shaft
3 Fairview shaft
4 North shaft
5 Prospect 2
6 Alcoa Mine (Pump shaft)
7 Good Hope shaft
8 unknown
9 Annex shaft
10 Extension shaft
11 Alcoa Mine
12 unknown
13 Steele shaft
14 Dirty Boy prospect
15 New shaft
16 Buzzard Roost Mine
17 Sweat shaft
18 Fairview shaft
19 Last Chance Shaft No. 2
20 No. 4 shaft
21 Last Chance Shaft No. 1
22 Air shaft
23 No. 1 prospect
24 South Boundary shaft
25 Deep shaft
26 Roper Shaft
27 Smith (White) shaft
28 Pell shaft
29 Rosiclare Mine
30 Blue Diggings Mine
31 Argo Mine
32 Smith shaft
33 Plant shaft
34 Stone shaft
35 New Ghelia shaft
36 Cincinnati shaft
37 Wam shaft
38 Rosiclare Air shaft
39 unknown
40 Daisy Air shaft
41 Midway Shaft
42 Ozark Mahoning Mine
43 North Boundary shaft
44 South Air shaft
45 Daisy Shaft No. 2
46 Daisy Shaft No. 1
47 Rosiclare Mine
48 Air shaft
49 Hillside Plant Mine
50 unknown
51 Mott shaft
52 North Air shaft
53 unknown
54 unknown
55 Dimmick prospects
56 unknown
57 Dimmick prospects
58 Alcoa prospect
59 Rainey (Hutchinson) Mine
60 unknown
61 unknown
62 Eureka No. 4
63 unknown
64 Eureka No. 5
65 Decker shaft
66 Eureka No. 3
67 Shoecraft shaft
68 McClusky-Byrd Shaft
69 Hawkins Shaft
70 unknown
71 Eureka No.6
72 Eureka No. 2
73 Eureka No. 1
74 Stewart Mine
75 Stewart Mine
76 Dyspeck prospect
77 Clements Mine
78 unknown

Cave-in-Rock Mining District



Cave in Rock

1 unknown
2 unknown
3 Miller Mine
4 Robinson Mine
5 Fluorspar Products Company prospect
6 Fluorspar Products Company prospect
7 Oxford Mine
8 Wolf Mine
9 Lead Hill Fluorspar and Lead Mine
10 Shipp & Convert Mines
11 unknown
12 Magazine Mines
13 Magazine Mines
14 Magazine Mines
15 Magazine Mines
16 Little Jean Mine
17 unknown
18 unknown
19 unknown
20 Terns Fluorspar prospect
21 Terns Fluorspar prospect
22 Walnut Mine
23 unknown
24 Cave In Rock Mine
25 unknown
26 Oxford-West Morrison open pit
27 Blue Valley shaft
28 Terns Fluorspar prospect
29 unknown
30 Hillside Mine
31 unknown
32 unknown
33 Victory Mine
34 Cleveland Lead Mine
35 Victory Mine (Addison shaft)
36 unknown
37 Cleveland Lead Mine
38 unknown
39 unknown
40 Keeling Mine
41 Victory Mine (Carlos shaft)
42 Green-Defender Mine
43 Frayser Mine (Wall property)
44 Austin East Green Mine
45 Wall prospect
46 North Victory adit
47 Patton shaft
48 unknown
49 Deardorff Mine
50 Crystal
51 Crystal #1 adit
52 Crystal #8 adit
53 Crystal #3 adit
54 Lackey Prospect Shaft
55 Crystal #2
56 unknown
57 W.L Davis Mine
58 Crystal Mine shaft
59 Crystal #5
60 Crystal #7
61 Crystal #6
62 Crystal adit
63 Crystal #3
64 Crystal Mine shaft
65 Crystal Mine shaft
66 Mahoning Mine No. 16
67 W.L. Davis No. 2 shaft
68 Heavy-Media Mine
69 Frayser Mine (Wall Property)
70 Simmons Open Pit Mine
71 Wall Fluorspar Mine
72 A.L. Davis Mine
73 Mahoning Mine
74 Martin Prospect Mine
75 West Green Mine
76 unknown
77 East Green Mine
78 North Green Mine
79 M.F. Oxford Mine #7
80 unknown
81 Eureka prospect
82 Hill-Ledford Mine
83 Oxford Fluorspar and Zinc Mine
84 Mineriva Oil Co. Mine No. 1