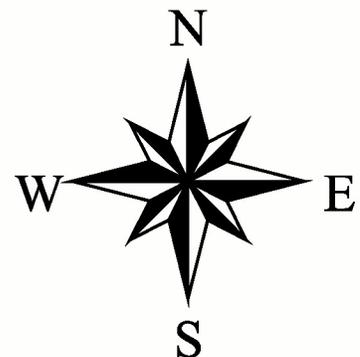
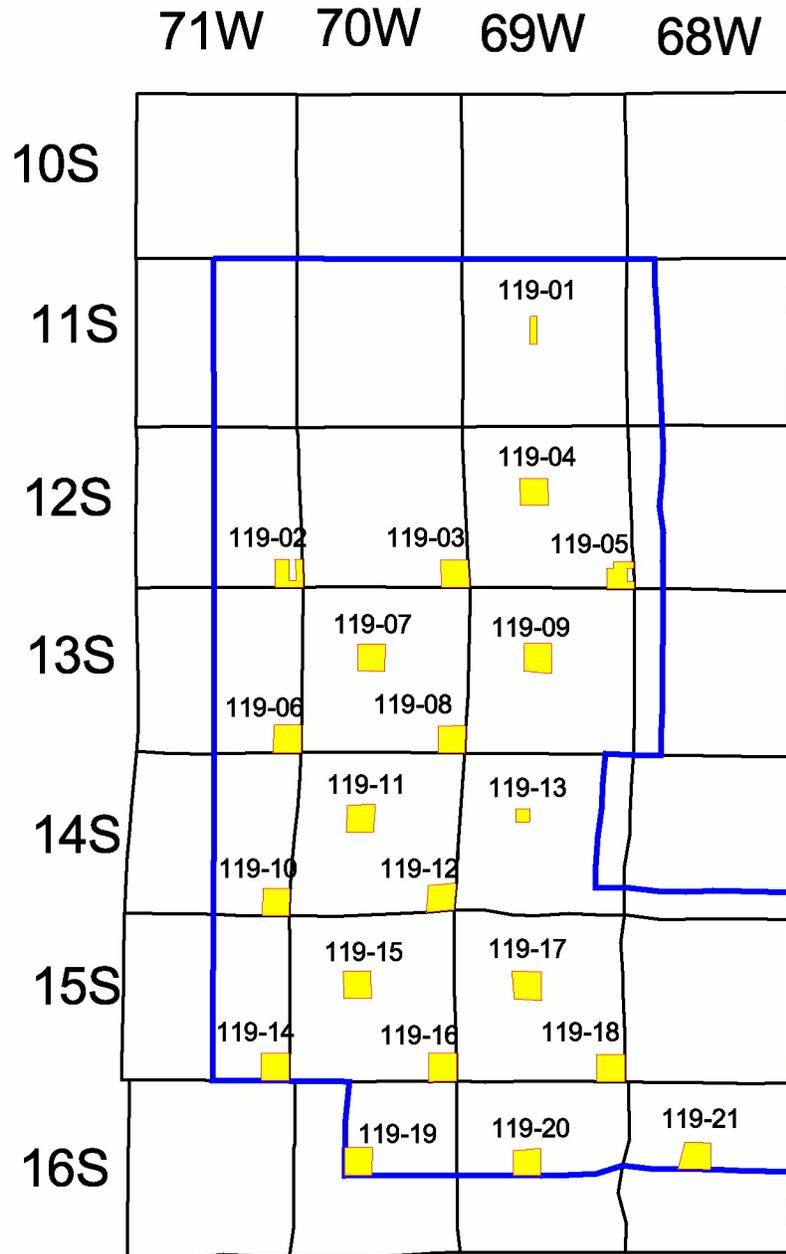
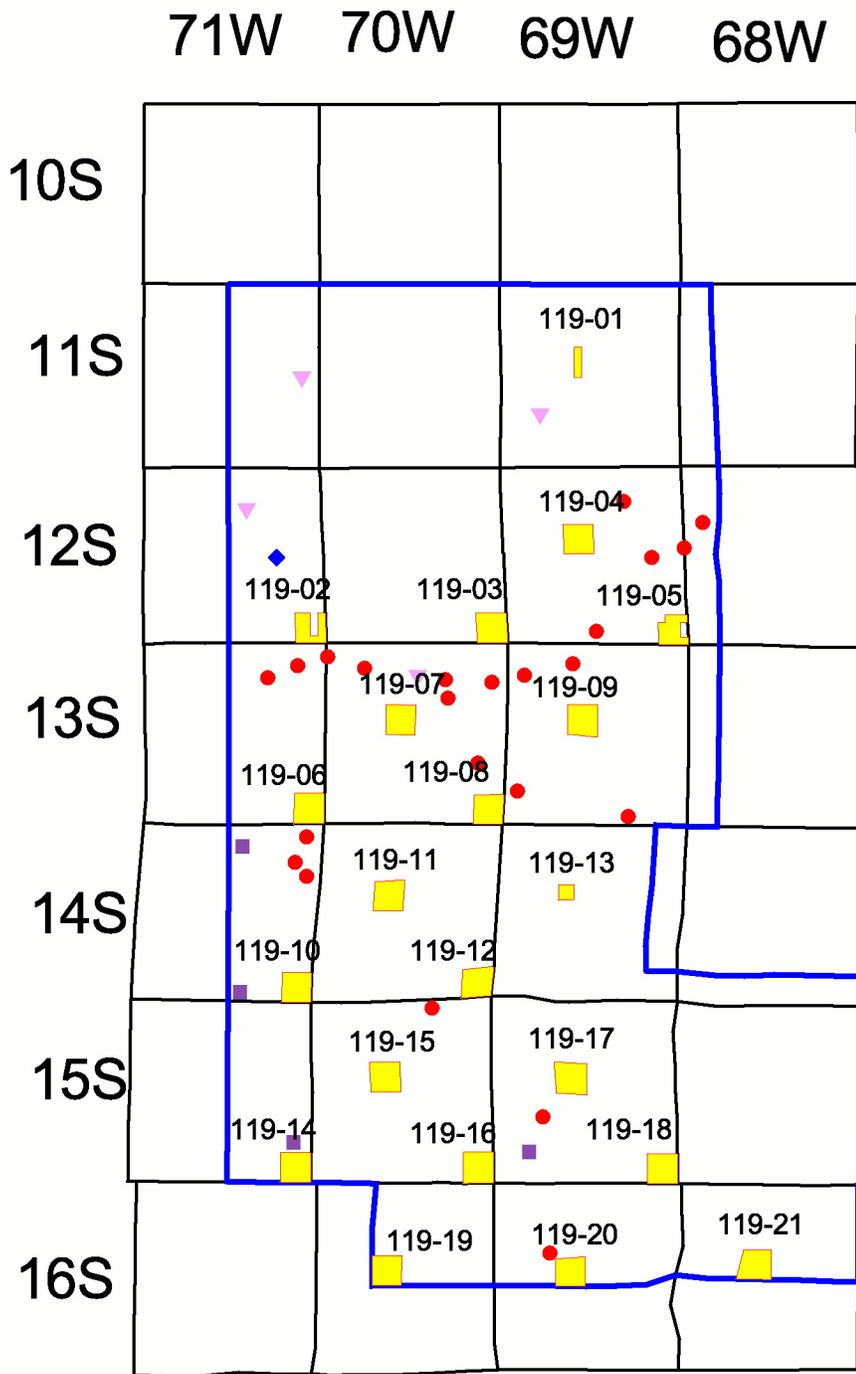


Teller County Index Map

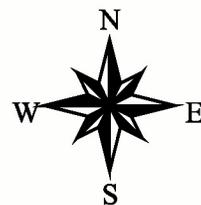


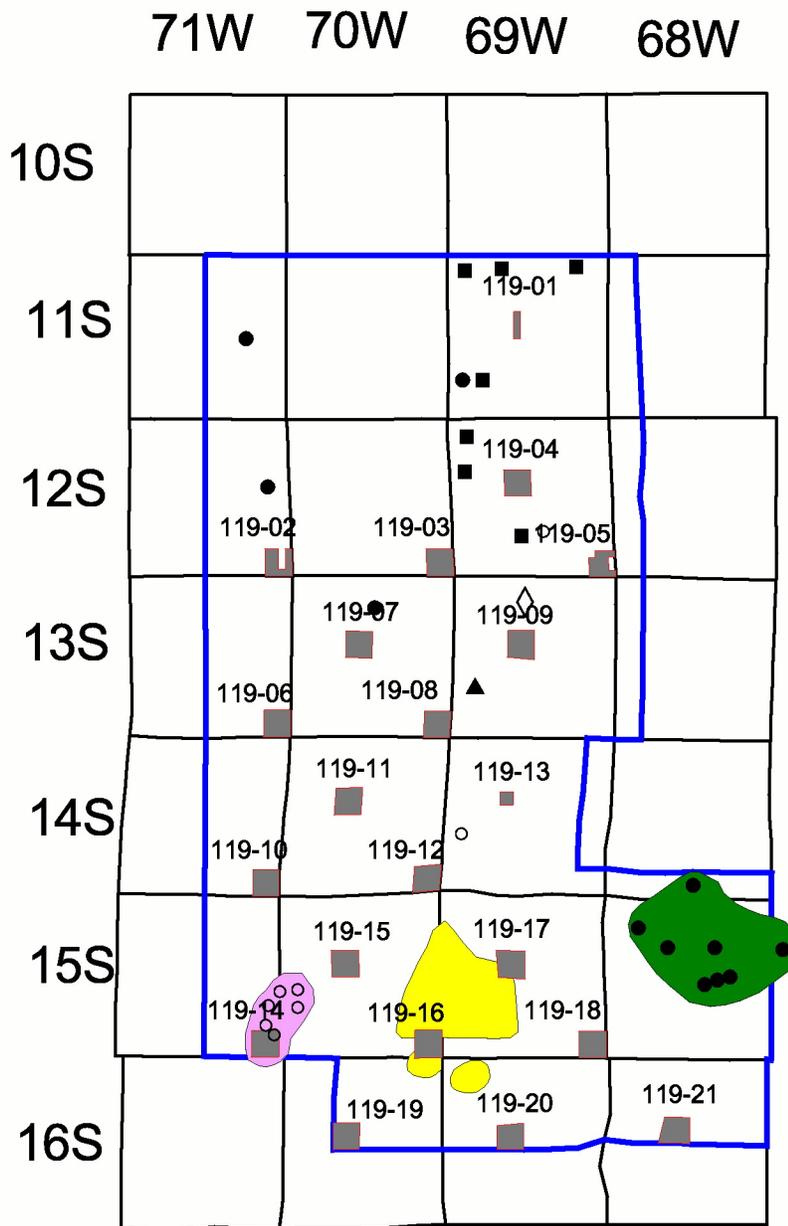
-  Mineral Acreage Evaluated
-  Teller County Boundary
-  Township Lines



Industrial and Construction Mineral Prospect Map for Teller County

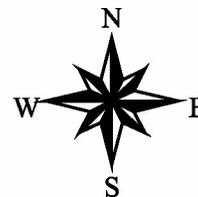
- Dimension Stone or Chrushed Rock
- ▼ Pegmatite
- ◆ Miscellaneous Industrial Mineral
- Sand, Sand and Gravel, Rubble, Borrow Material
- Mineral Acreage Evaluated
- ▭ Teller County Boundary
- ▭ Township Lines





Metallic Minerals Map for Teller County

- Pegmatite--Beryl, Tungsten, Rare Earth Elements
- Gold
- Uranium
- ◇ Fluorine
- ▲ Niobium, Tantalum
- Mineral Acreage Evaluated
- Pegmatite District
- Gold District
- Uranium District
- Teller County Boundary
- Township Lines



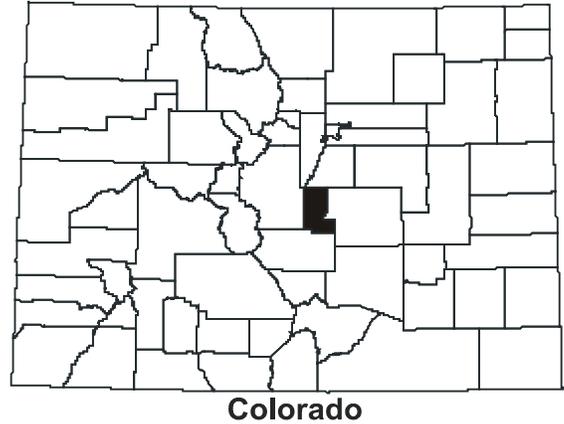
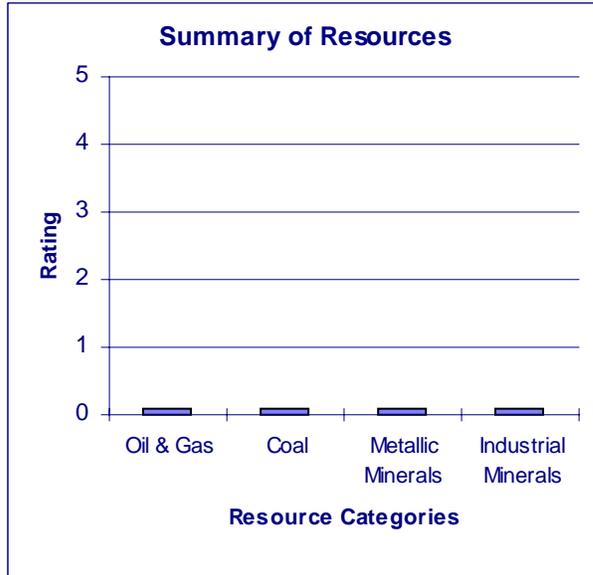
TELLER COUNTY						
STATE LAND BOARD PROJECT - LAND TRACT INFORMATION						
COMMODITY RATING						
Tract	Legal description (all are in 6th Meridian)	Acres (approx)	Oil & gas	Coal	Metallic	Industrial
119-01	T. 11 S, R. 69 W, W1/2 E1/2 SEC. 16	160	0.1	0.1	0.1	0.1
119-02	T. 12 S, R. 71 W, E1/2 E1/2, W1/2, SW1/4 SE1/4, SEC. 36	520	0.1	0.1	2	2
119-03	T. 12 S, R. 70 W, SECTION 36	640	0.1	0.1	0.1	4
119-04	T. 12 S, R. 69 W, SECTION 16	640	0.1	0.1	1	2
119-05	T. 12 S, R. 69 W, N1/2 NE1/4, SW1/4NE1/4, NE1/4NW1/4, S1/2NW1/4, SW1/4, W1/2SE1/4, SE1/4SE1/4, SECTION 36	520	0.1	0.1	1	4
119-06	T. 13 S, R. 71 W, SECTION 36	640	0.1	0.1	1	2
119-07	T. 13 S, R. 70 W, SECTION 16	640	0.1	0.1	1	4
119-08	T. 13 S, R. 70 W, SECTION 36	640	0.1	0.1	2	2
119-09	T. 13 S, R. 69 W, SECTION 16	640	0.1	0.1	2	2
119-10	T. 14 S, R. 71 W, SECTION 36	640	0.1	0.1	1	2
119-11	T. 14 S, R. 70 W, SECTION 16	640	0.1	0.1	2	2
119-12	T. 14 S, R. 70 W, SECTION 36	640	0.1	0.1	3	2
119-13	T. 14 S, R. 69 W, NW1/4 SECTION 16	160	0.1	0.1	2	2
119-14	T. 15 S, R. 71 W, SECTION 36	640	0.1	0.1	3	2
119-15	T. 15 S, R. 70 W, SECTION 16	640	0.1	0.1	2	2
119-16	T. 15 S, R. 70 W, SECTION 36	640	0.1	0.1	3	2
119-17	T. 15 S, R. 69 W, SECTION 16	640	0.1	0.1	4	2
119-18	T. 15 S, R. 69 W, SECTION 36	640	0.1	0.1	0.1	2
119-19	T. 16 S, R. 70 W, SECTION 16	640	0.1	0.1	0.1	2
119-20	T. 16 S, R. 69 W, SECTION 16	640	0.1	0.1	0.1	2
119-21	T. 16 S, R. 68 W, SECTION 16	640	0.1	0.1	0.1	2

STATE LAND BOARD MINERAL INVENTORY - RATINGS

RATING	Oil & Gas	Coal	Metallic Minerals	Industrial Minerals- Construction Materials
0.1 Little or no potential	Lacks all the essential elements of hydrocarbon accumulation*. Includes areas where intrusive rocks, metamorphic rocks, or a thin veneer of sedimentary rocks are exposed.	Lacks strata that may contain coal; not in a coal basin.	Lacks rock types or structures that may contain metallic minerals	Lacks rock types or structures that may contain industrial minerals or construction materials.
1 Poor	Sedimentary rocks in the tract lack one or more of the essential elements*.	Tract contains strata that may contain coal; in a coal basin. No coal occurrences within 5 miles	Tract contains permissive rock types and structures to host metallic mineral deposits. No mineral occurrences within 5 miles	
2 Fair	All essential elements* exist in tract; however, existing geological control is insufficient to determine presence of a local trap or reservoir. Some production nearby.	Tract contains strata that may contain coal; in a coal basin. No coal occurrences within 1 mile.	Tract contains permissive rock types and structures to host metallic mineral deposits. No mineral occurrences within 1 mile.	Tract contains permissive rock types and structures to host industrial minerals or construction material deposits.
3 Moderate	All essential elements* in immediate area. Production within 1-2 miles or tract is on trend with existing production. Geological control is insufficient to determine presence of a local trap or reservoir	Tract is in a known coal basin, contains known coal bearing strata. A <u>HYPOTHETICAL RESOURCE</u> can be estimated	Tract contains permissive rock types and structures to host metallic mineral deposits. May contain mineralization. <u>UNDISCOVERED RESOURCES</u> can be estimated	
4 Good	Geological control strongly suggest all essential elements* exist . Production or strong show within a mile or along a geological trend .	Tract contains coal beds that can be classed as <u>IDENTIFIED RESOURCE</u>	Tract contains metallic minerals that can be classed as <u>IDENTIFIED RESOURCE</u>	Tract contains industrial minerals or construction materials that can be classed as <u>IDENTIFIED RESOURCE</u>
5 Proven	<u>PROVEN DEVELOPED</u> or <u>PROVEN UNDEVELOPED</u> Reserves	Tract contains <u>DEMONSTRATED RESERVES</u> and is producing coal	Tract contains <u>DEMONSTRATED RESERVES</u> and is producing metallic minerals.	Tract contains <u>DEMONSTRATED RESERVES</u> and is producing industrial minerals or construction materials.

* Essential elements of a hydrocarbon accumulation are: 1) Reservoir, 2) Trap, and 3) Source rock with appropriate timing of generation of migration.

STATE LANDBOARD MINERAL INVENTORY



TRACT IDENTIFIER : 119-01

COUNTY: Teller

LOCATION: The tract is located about 5 highway miles north of the city of Woodland Park and about a ½ mile west of State Highway 67. An improved road goes through the southern part of the tract.

LEGAL DESCRIPTION:
T. 11 S, R. 69 W, W1/2 E1/2, SECTION 16

APPROXIMATE ACREAGE:160

QUADRANGLE NAME(S): Mt. Deception

OVERVIEW OF GEOLOGY:

(PPf) Fountain Formation: Grayish red, reddish-brown, moderate red and gray coarse-grained arkosic sandstone with lenses of siltstone and fine-grained sandstone, locally conglomeratic and cross-bedded.

OIL AND GAS RESOURCES:

This tract has no potential for oil and/or natural gas production.

COAL RESOURCES:

No known coal bearing rocks are present on the tract.

METALLIC MINERAL RESOURCES:

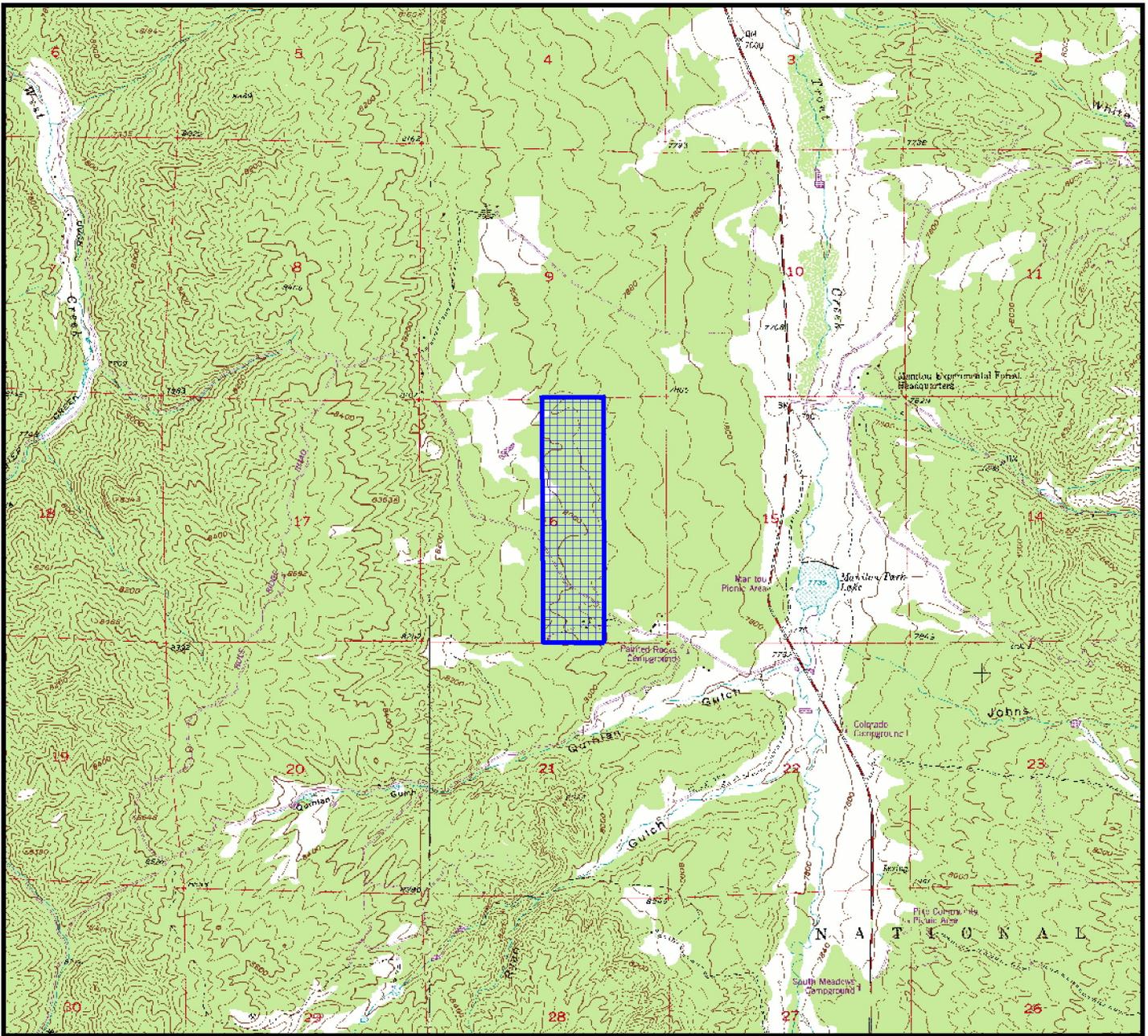
There are no known metallic mineral occurrences on this tract.

INDUSTRIAL MINERALS AND CONSTRUCTION MATERIALS:

There are no known construction material or industrial mineral deposits on the tract.

REFERENCES:

Bryant, B., McGrew, L.W., and Wobus, R.A., 1981, Geologic map of the Denver 1° X 2° quadrangle, north-central Colorado: U.S. Geological Survey Miscellaneous Investigation Series, I-1163, scale 1:250,000.



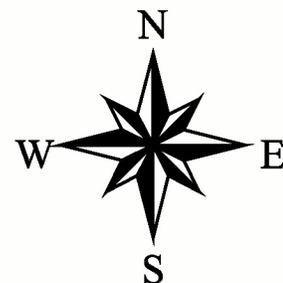
Topographic Map for Tract # 119-01

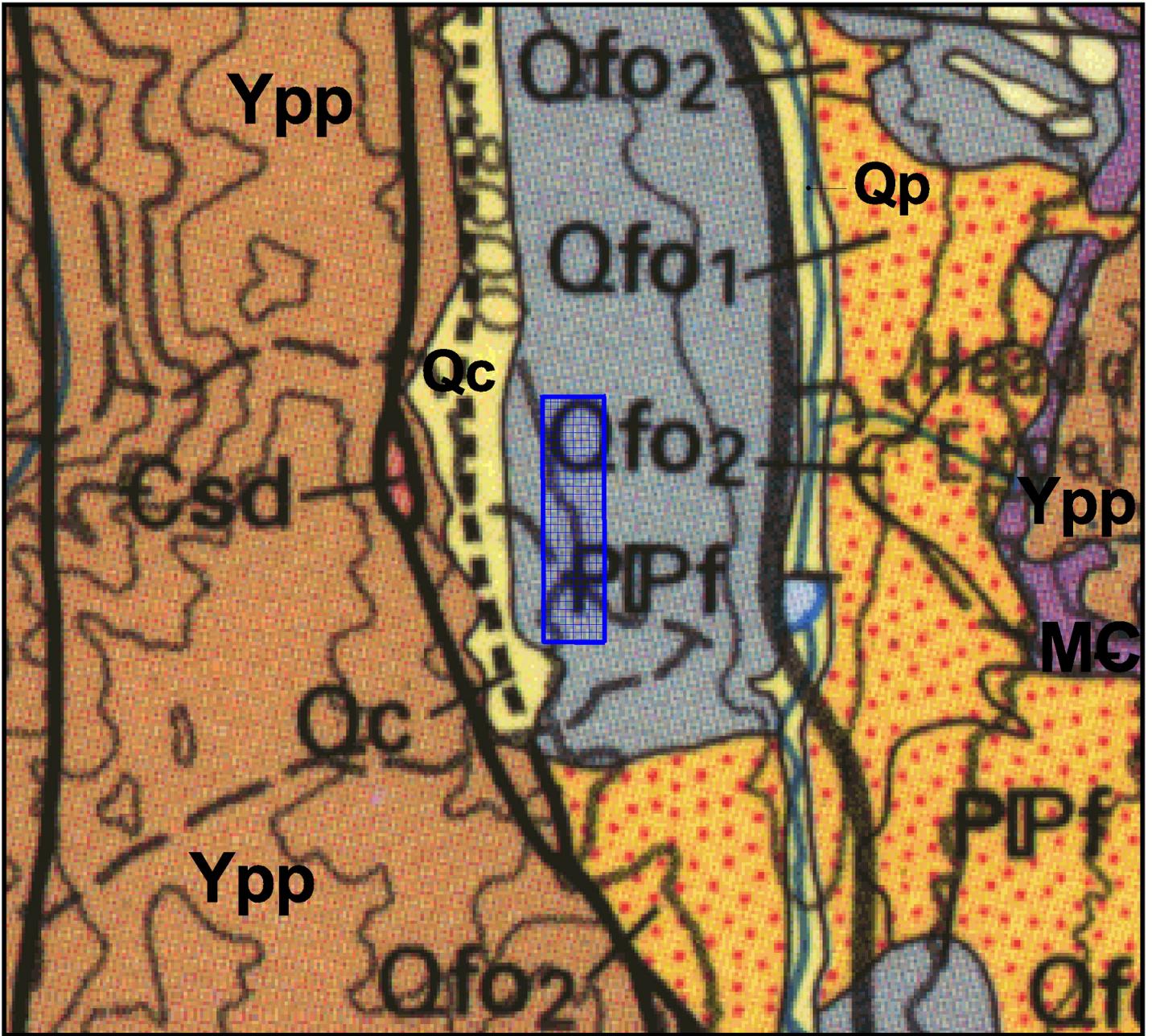
Location: T. 11 S, R. 69 W
 Sections: 16
 Approximate total acreage: 160

 Mineral acreage evaluated



1:32,000



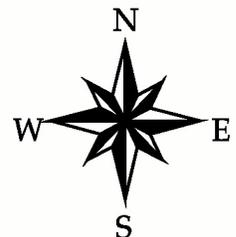


Geologic Map for Tract # 119-01

Location: T. 11 S, R. 69 W
 Sections: 16
 Approximate total acreage: 160

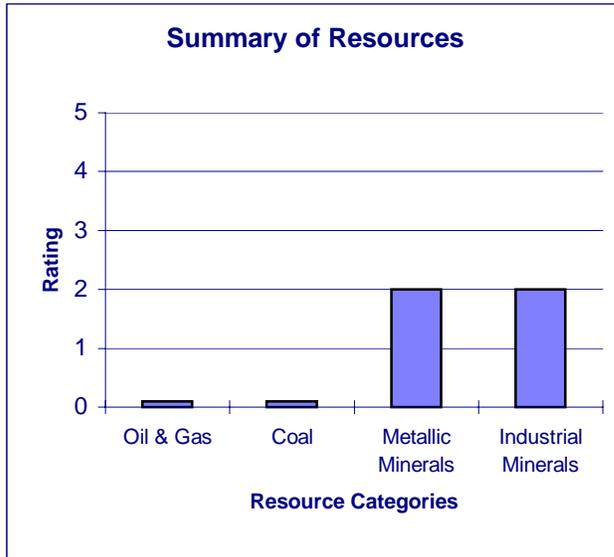
 Mineral acreage evaluated

See report text for description of geologic units



1:32,000

STATE LANDBOARD MINERAL INVENTORY



TRACT IDENTIFIER : 119-02

COUNTY: Teller

LOCATION: The tract is located about 1 mile north of the village of Florissant on U.S. Highway 24. An improved road from Florissant goes through the middle of the tract.

LEGAL DESCRIPTION:
T. 12 S., R.71 W., SECTION 36

APPROXIMATE ACREAGE: 520

QUADRANGLE NAME(S): Lake George

OVERVIEW OF GEOLOGY:

Mostly Pikes Peak Granite. There is a small outcrop of the Wall Mountain Tuff along the eastern boundary.

(Ypp) Pikes Peak Granite: Pink to reddish, medium- to coarse-grained biotite or hornblende-biotite granite.

(Twm) Wall Mountain Tuff: Biotite-plagioclase-sanidine rhyolite ash flow tuff.

OIL AND GAS RESOURCES:

This tract has no potential for oil and/or natural gas production.

COAL RESOURCES:

No known coal bearing rocks are present on the tract.

METALLIC MINERAL RESOURCES:

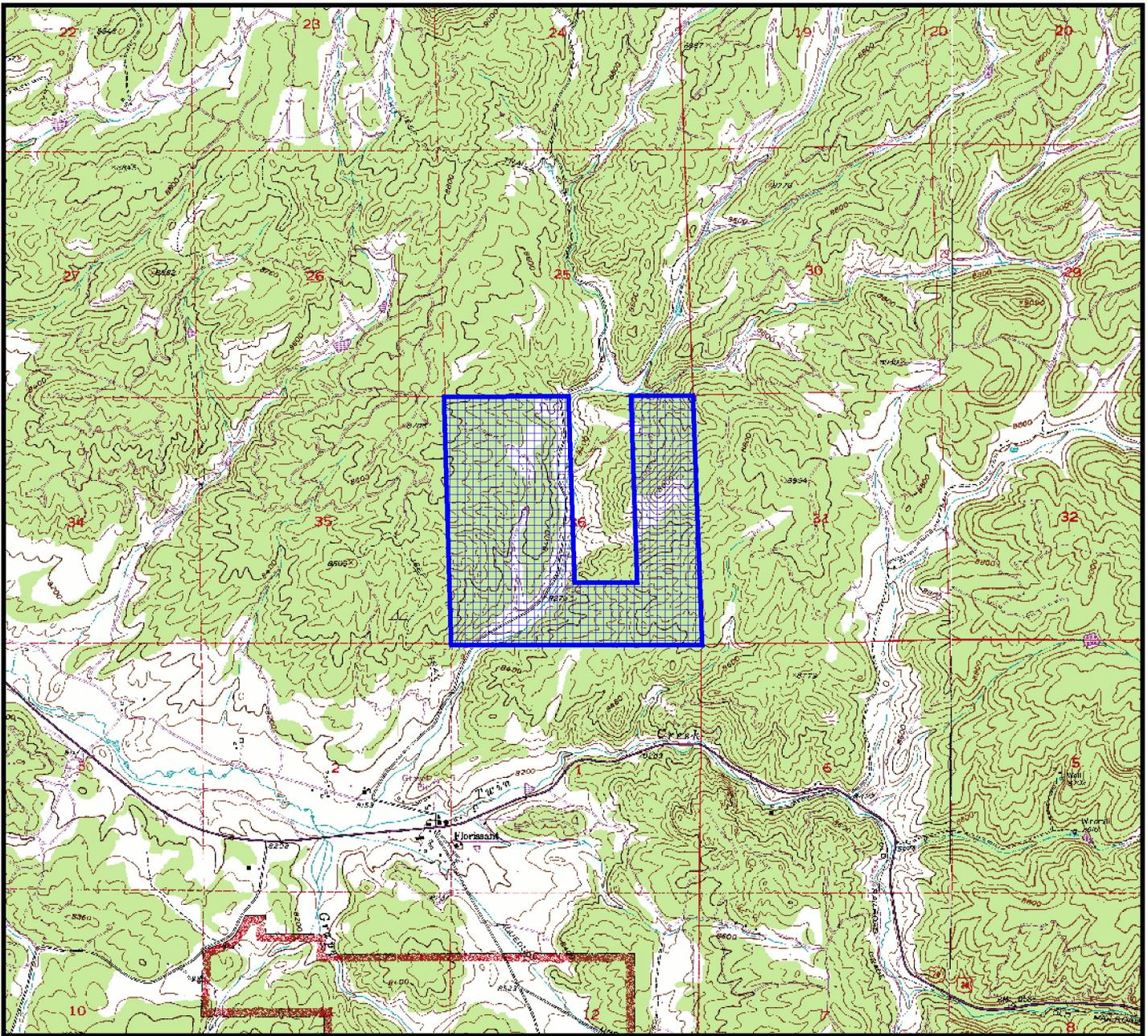
The Pikes Peak Granite in this region hosts uranium, fluorite, gem minerals including beryl and topaz, tungsten, rare earth mineral, and minor placer gold occurrences. It appears from the geological map that these occurrences are structurally controlled along north-south and east-west trending faults. No structures of this type occur on the tract.

INDUSTRIAL MINERALS AND CONSTRUCTION MATERIALS:

The Wall Mountain Tuff can be used for dimension stone or coarse aggregate. The Pikes Peak Granite can be used for coarse aggregate.

REFERENCES:

- Scott, G.R., Taylor, R.B., Epis, R.C., and Wobus, R.A., 1978, Geologic map of the Pueblo 1° X 2° quadrangle, south-central Colorado: U.S. Geological Survey Miscellaneous Investigation Series, I-1022, scale 1:250,000.
- Wobus, R.A., and Epis, R.C., 1978, Geologic map of the Florissant 15-minute quadrangle, Park and Teller Counties: U.S. Geological Survey Miscellaneous Investigation Series, I-1044, scale 1:62,500.



Topographic Map for Tract # 119-02

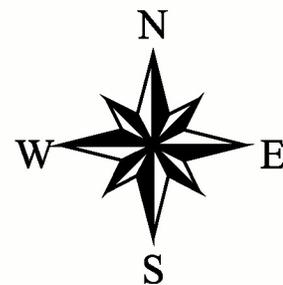
Location: T. 12 S, R. 71 W
Sections: 36
Approximate total acreage: 520

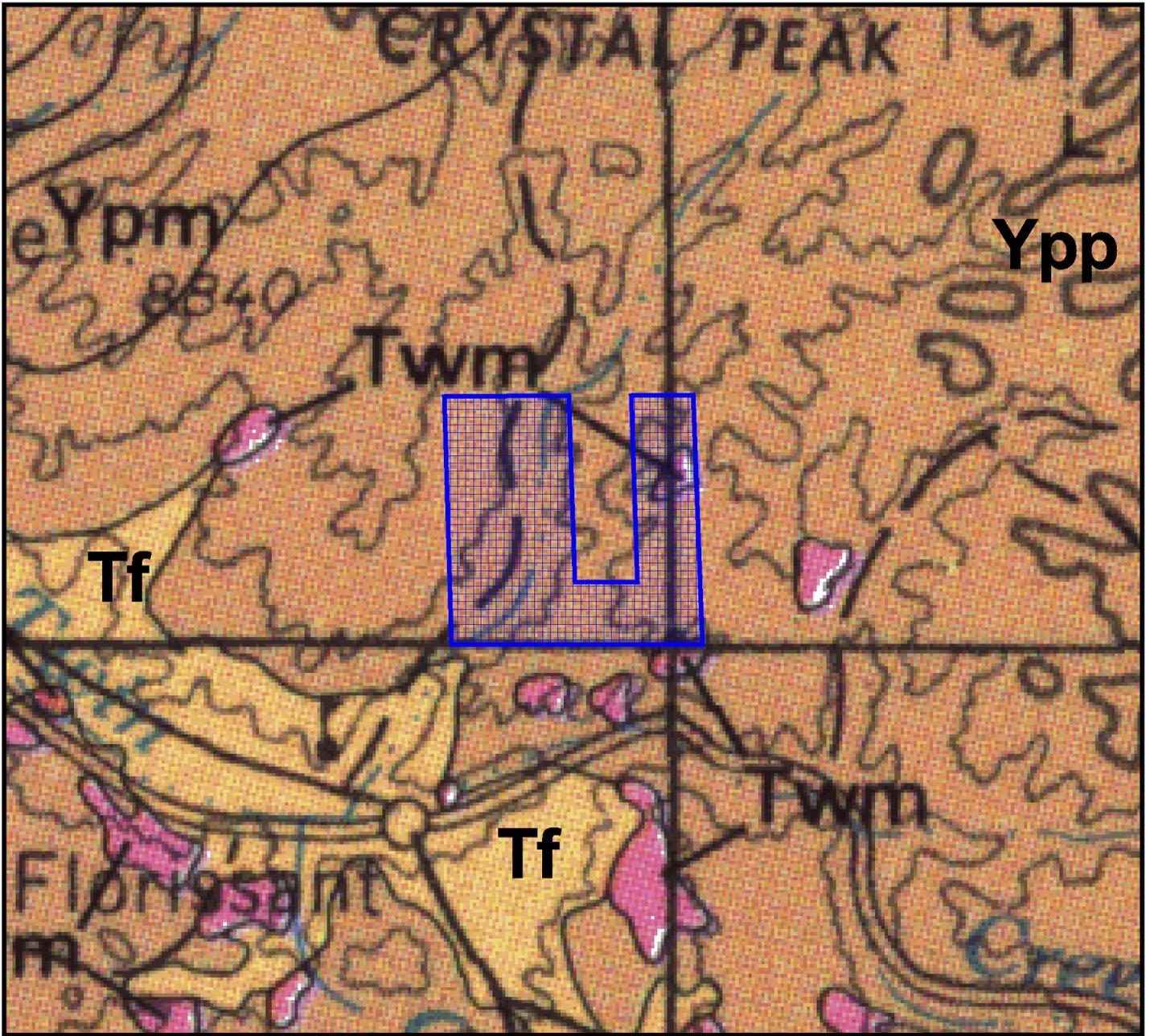
 *Mineral acreage evaluated*

0 1 2 Miles



1:32,000



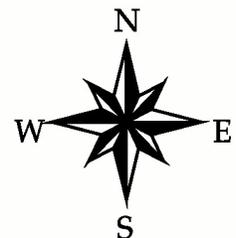


Geologic Map for Tract # 119-02

Location: T. 12 S, R. 71 W
 Sections: 36
 Approximate total acreage: 520

 *Mineral acreage evaluated*

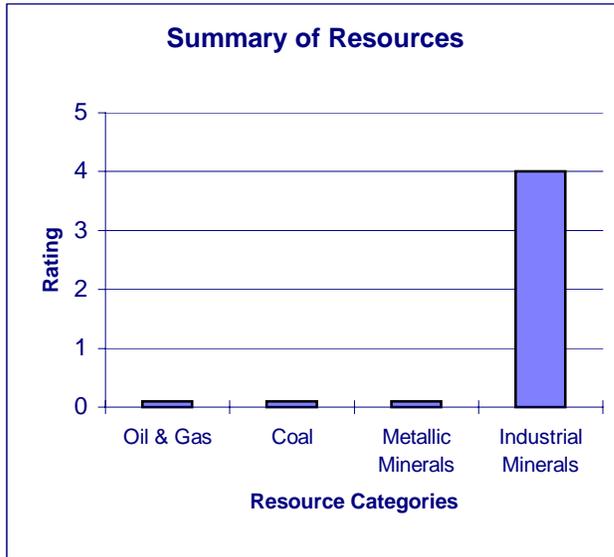
See report text for description of geologic units



0 1 2 Miles

1:32,000

STATE LANDBOARD MINERAL INVENTORY



TRACT IDENTIFIER : 119-03

COUNTY: Teller

LOCATION: The tract is located about 1 mile north of the village of Divide on U.S. Highway 24. The Divide Transfer Road is improved and cuts across the southwest quarter of the tract. There are unimproved roads on the tract.

LEGAL DESCRIPTION:
T. 13 S., R.70 W., SECTION. 36

APPROXIMATE ACREAGE: 640

QUADRANGLE NAME(S): Divide

OVERVIEW OF GEOLOGY:

Tertiary gravel deposits cover the tract. The underlying bedrock is the Pikes Peak Granite.

(Tdg) Gravel at Divide (Miocene-Pliocene): Bouldery gravel and crudely stratified sand, silt, and clay as much as 200 feet thick.

OIL AND GAS RESOURCES:

This tract has no potential for oil and/or natural gas production.

COAL RESOURCES:

No known coal bearing rocks are present on the tract.

METALLIC MINERAL RESOURCES:

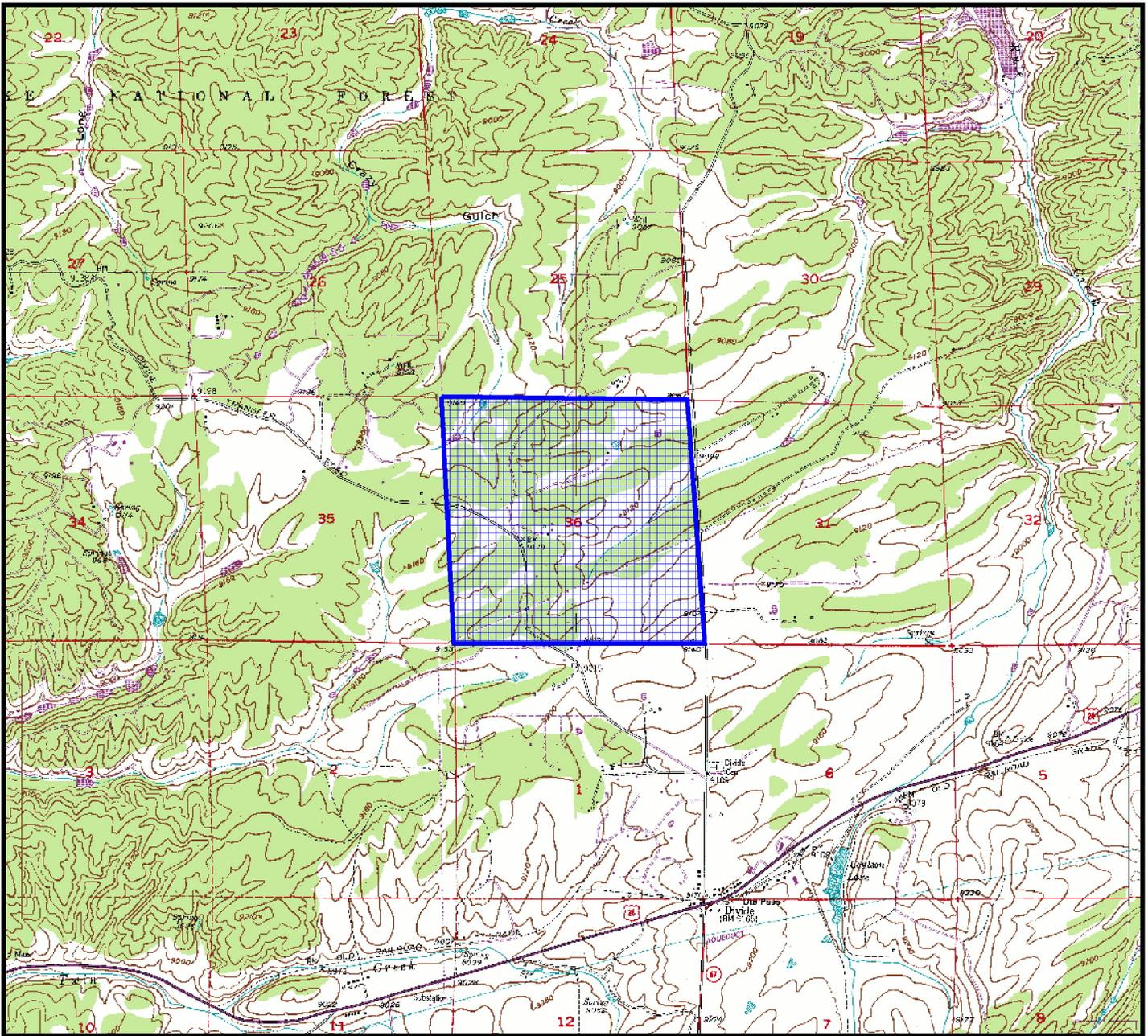
There are no known metallic mineral occurrences on this tract.

INDUSTRIAL MINERALS AND CONSTRUCTION MATERIALS:

The Gravel at Divide covers the entire 640 acres of the tract. Its quality for construction purposes is not known. However, assuming a thickness of 20 feet and a density of 111-lbs./cu. ft., there are about 30 million tons of identified resource of gravel on this tract.

REFERENCES:

Scott, G.R., Taylor, R.B., Epis, R.C., and Wobus, R.A., 1978, Geologic map of the Pueblo 1° X 2° quadrangle, south-central Colorado: U.S. Geological Survey Miscellaneous Investigation Series, I-1022, scale 1:250,000.



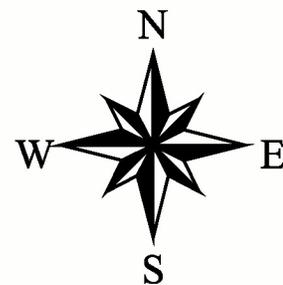
Topographic Map for Tract # 119-03

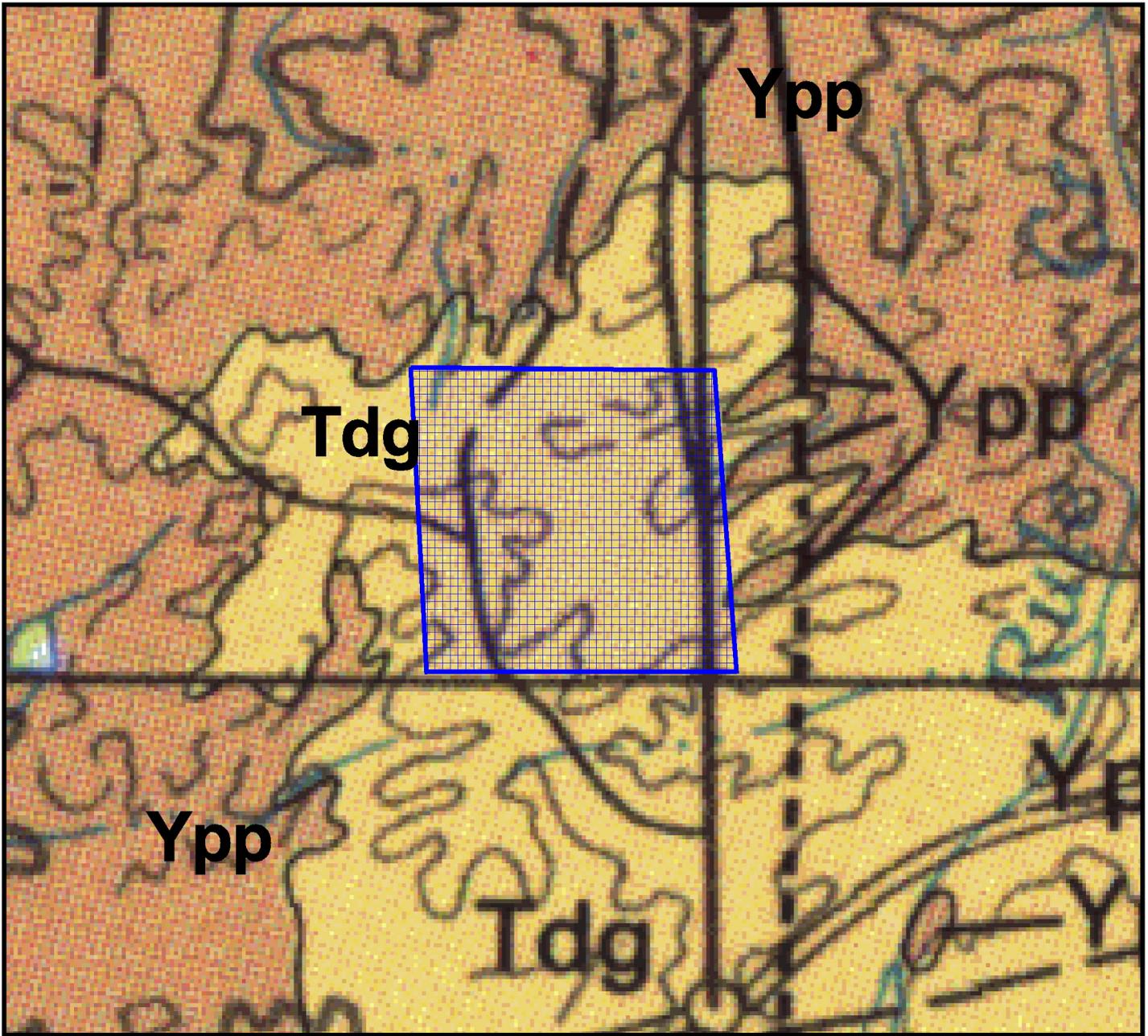
Location: T. 12 S, R. 70 W
 Sections: 36
 Approximate total acreage: 640

 Mineral acreage evaluated



1:32,000



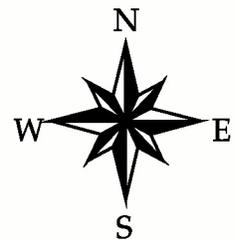


Geologic Map for Tract # 119-03

Location: T. 12 S, R. 70 W
 Sections: 36
 Approximate total acreage: 640

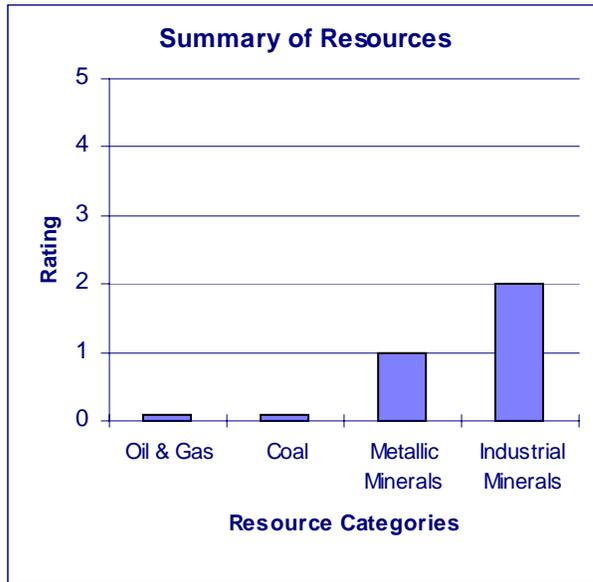
 *Mineral acreage evaluated*

See report text for description of geologic units



1:32,000

STATE LANDBOARD MINERAL INVENTORY



TRACT IDENTIFIER: 119-04

COUNTY: Teller

LOCATION: The tract is located about 2 miles west of the city of Woodland Park. There are unimproved roads on the south side to within a 1,000 feet of the tract boundary. There are no roads on the tract.

LEGAL DESCRIPTION:
T. 12 S, R. 69 W, SECTION 16

APPROXIMATE ACREAGE: 640

QUADRANGLE NAME(S): Mt. Deception

FIELD VISIT: No

OVERVIEW OF GEOLOGY:
(Ypp) Pikes Peak Granite: Pink to reddish, medium- to coarse-grained biotite or hornblende- biotite granite.

OIL AND GAS RESOURCES:
This tract has no potential for oil and/or natural gas production.

COAL RESOURCES:

No known coal bearing rocks are present on the tract.

METALLIC MINERAL RESOURCES:

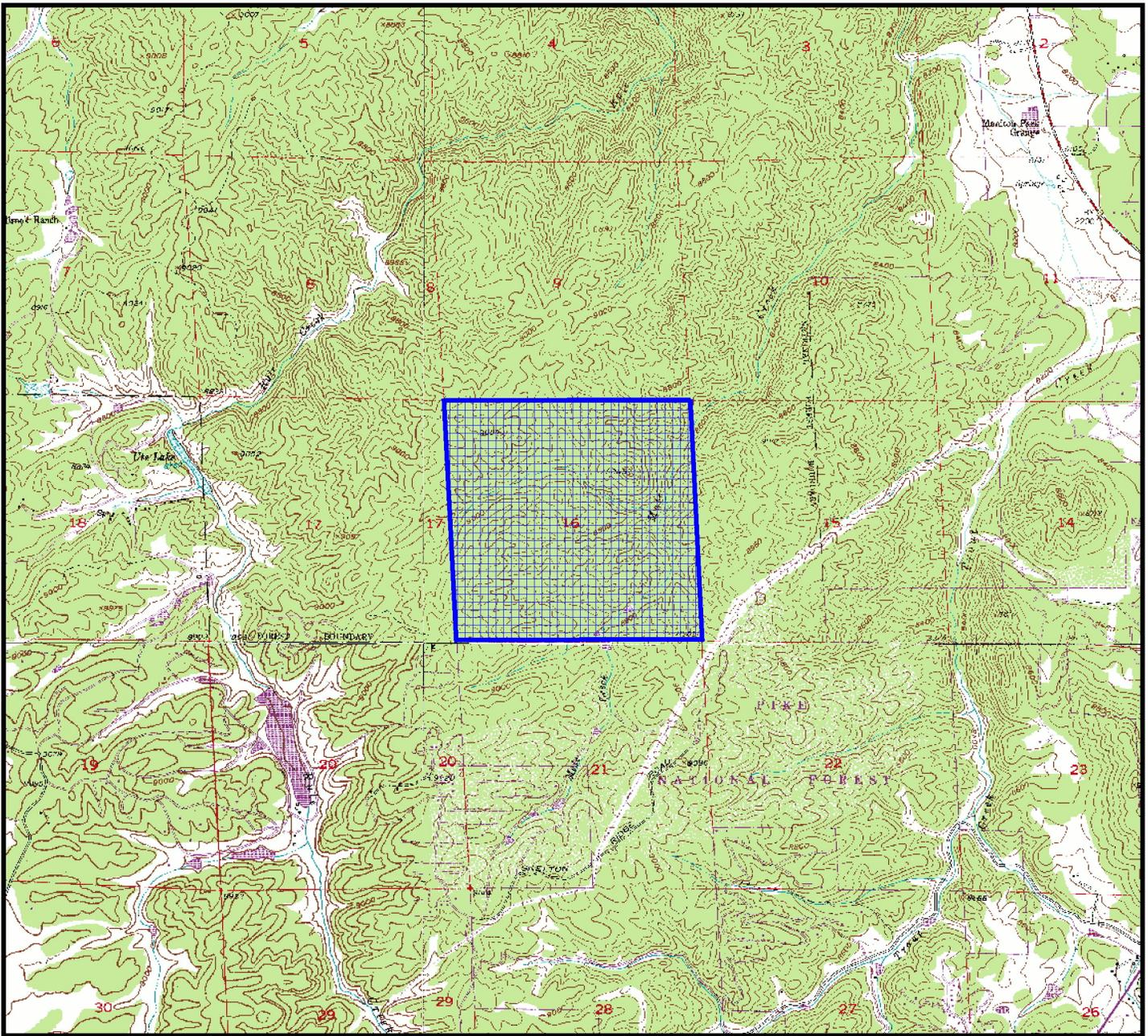
The Pikes Peak Granite in this region hosts uranium, fluorite, gem minerals including beryl and topaz, tungsten, rare earth mineral, and minor placer gold occurrences. It appears from the geological map that these occurrences are structurally controlled along north-south and east-west trending faults. No structures of this type occur on the tract.

INDUSTRIAL MINERALS AND CONSTRUCTION MATERIALS:

The Pikes Peak Granite can be used for coarse aggregate.

REFERENCES:

Bryant, B., McGrew, L.W., and Wobus, R.A., 1981, Geologic map of the Denver 1° X 2° quadrangle, north-central Colorado: U.S. Geological Survey Miscellaneous Investigation Series, I-1163, scale 1:250,000.



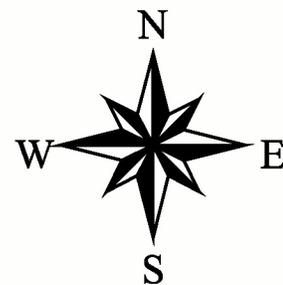
Topographic Map for Tract # 119-04

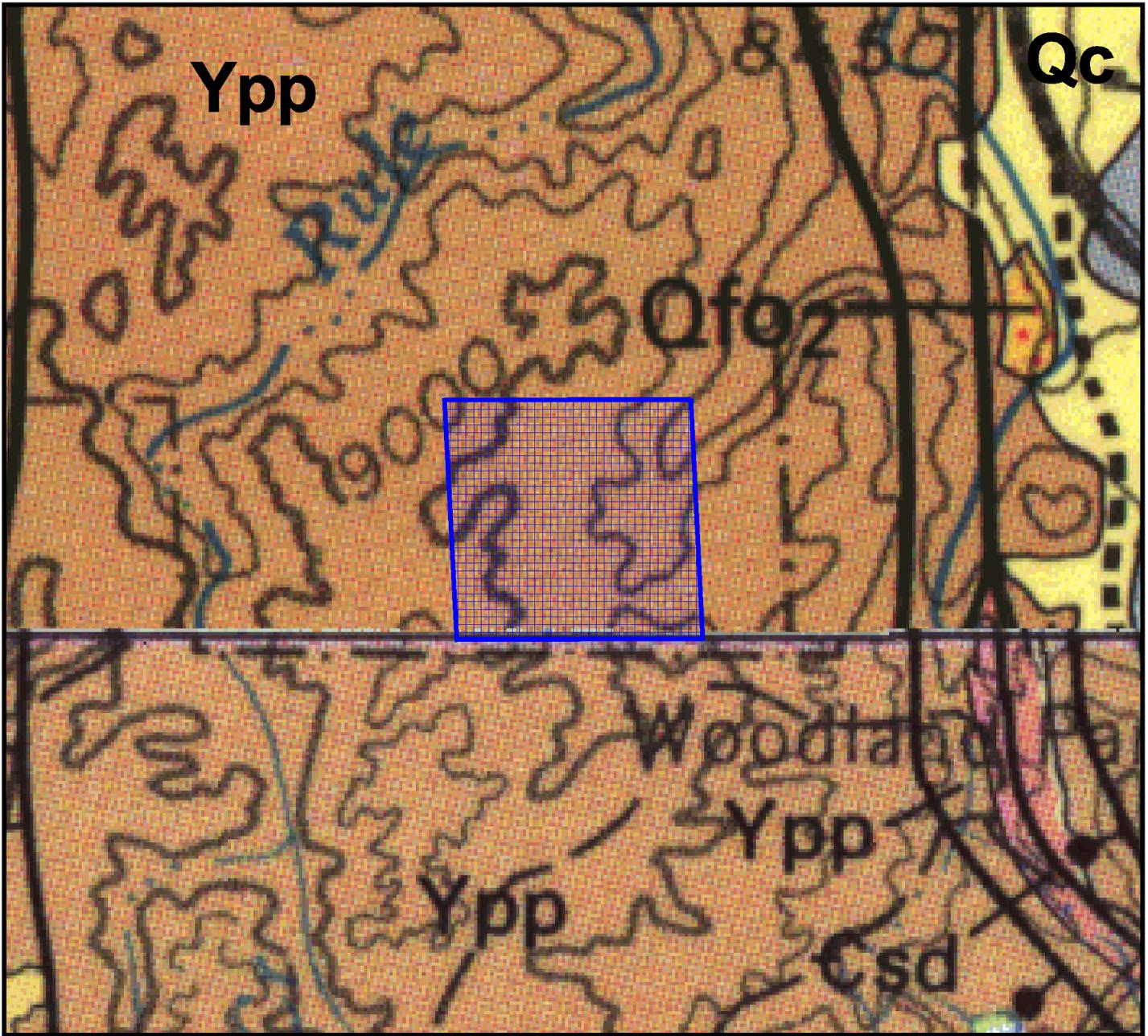
Location: T. 12 S, R. 69 W
Sections: 16
Approximate total acreage: 640

 Mineral acreage evaluated



1:32,000





Geologic Map for Tract # 119-04

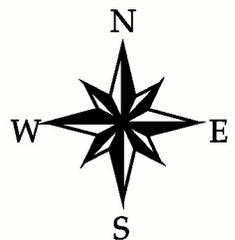
Location: T. 12 S, R. 69 W
 Sections: 16
 Approximate total acreage: 640

 Mineral acreage evaluated

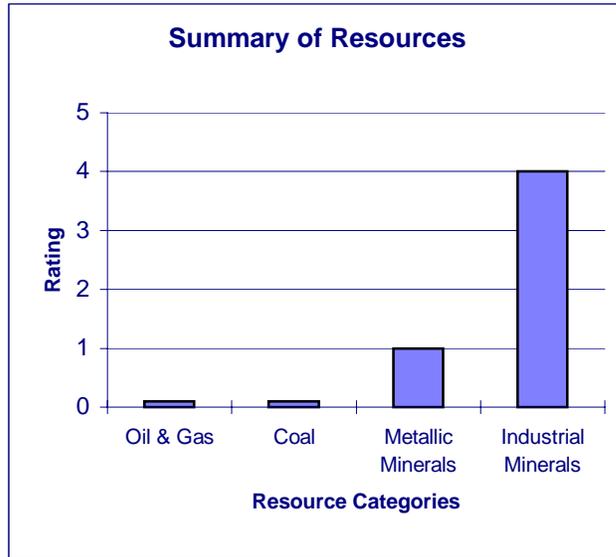
See report text for description of geologic units



1:32,000



STATE LANDBOARD MINERAL INVENTORY



TRACT IDENTIFIER: 119-05

COUNTY: Teller

LOCATION: The tract is located about 3 miles south of the city of Woodland Park. State Highway 4 is about one mile north of the northwest boundary of the tract. There are improved and unimproved roads up to the tract boundaries on the north and east side.

LEGAL DESCRIPTION:

T. 12 S, R. 69 W, N1/2 NE1/4, SW1/4NE1/4, NE1/4NW1/4, S1/2NW1/4, SW1/4, W1/2SE1/4, SE1/4SE1/4, SECTION 36

APPROXIMATE ACREAGE: 520

QUADRANGLE NAME(S): Woodland Park

OVERVIEW OF GEOLOGY:

(Ypp) Pikes Peak Granite: Pink to reddish, medium- to coarse-grained biotite or hornblende- biotite granite.

(Tdg) Gravel at Divide (Miocene-Pliocene): Bouldery gravel and crudely stratified sand, silt, and clay as much as 200 feet thick (Tdg).

OIL AND GAS RESOURCES:

This tract has no potential for oil and/or natural gas production.

COAL RESOURCES:

No known coal bearing rocks are present on the tract.

METALLIC MINERAL RESOURCES:

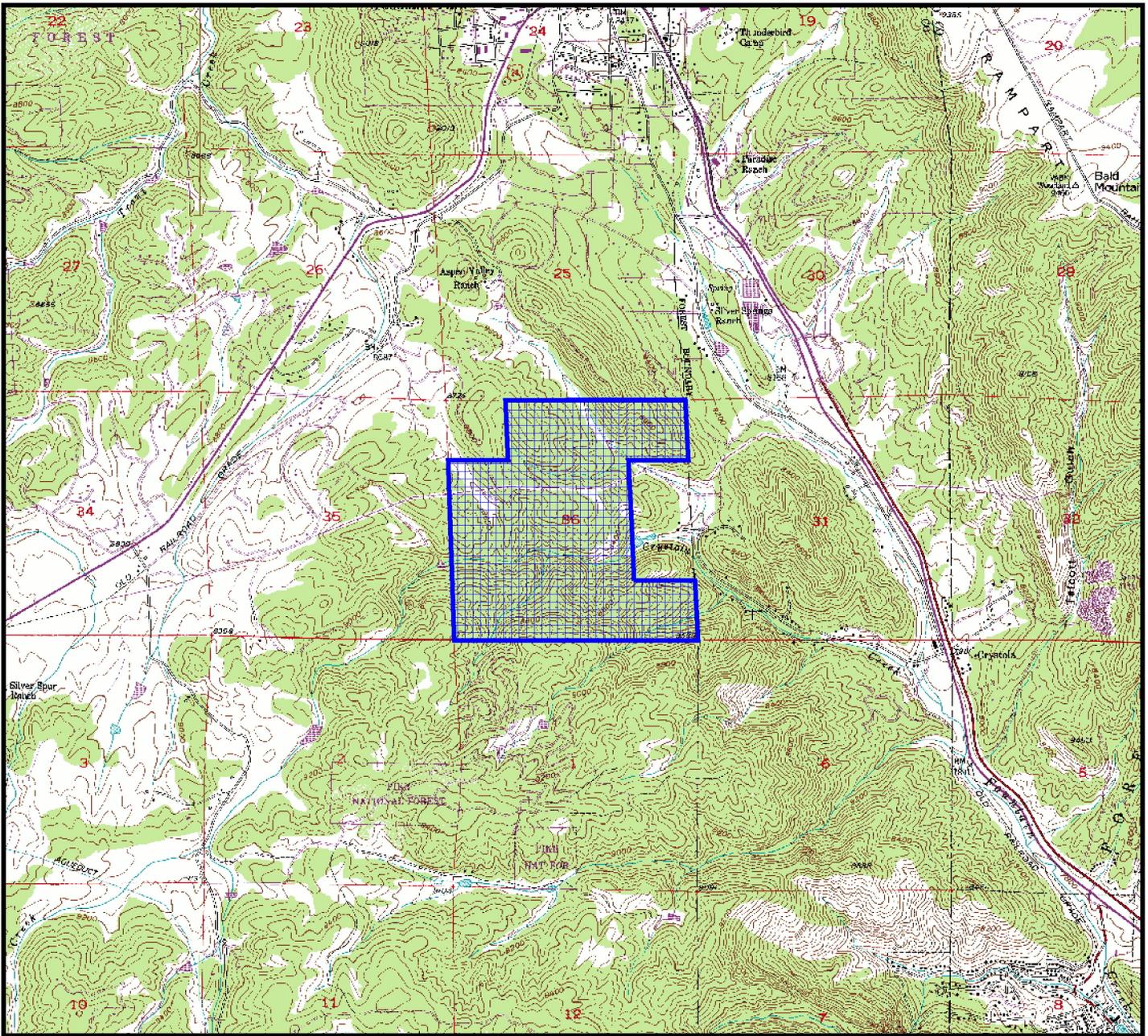
The Pikes Peak Granite in this region hosts uranium, fluorite, gem minerals including beryl and topaz, tungsten, rare earth mineral, and minor placer gold occurrences. It appears from the geological map that these occurrences are structurally controlled along north-south and east-west trending faults. There are northwest trending structures on the tract and these may play a role in locating mineral deposits.

INDUSTRIAL MINERALS AND CONSTRUCTION MATERIALS:

The Gravel at Divide covers about 80 acres of the tract. Its quality for construction purposes is not known. However, assuming a thickness of 20 feet and a density of 111-lbs./cu. ft., there are about 3 million tons of identified resource of gravel on this tract. The Pikes Peak Granite can be used for coarse aggregate.

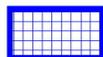
REFERENCES:

Scott, G.R., Taylor, R.B., Epis, R.C., and Wobus, R.A., 1978, Geologic map of the Pueblo 1° X 2° quadrangle, south-central Colorado: U.S. Geological Survey Miscellaneous Investigation Series, I-1022, scale 1:250,000.



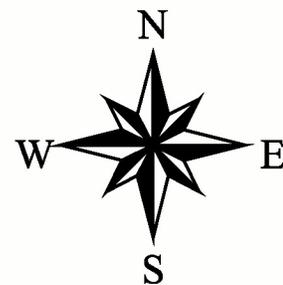
Topographic Map for Tract # 119-05

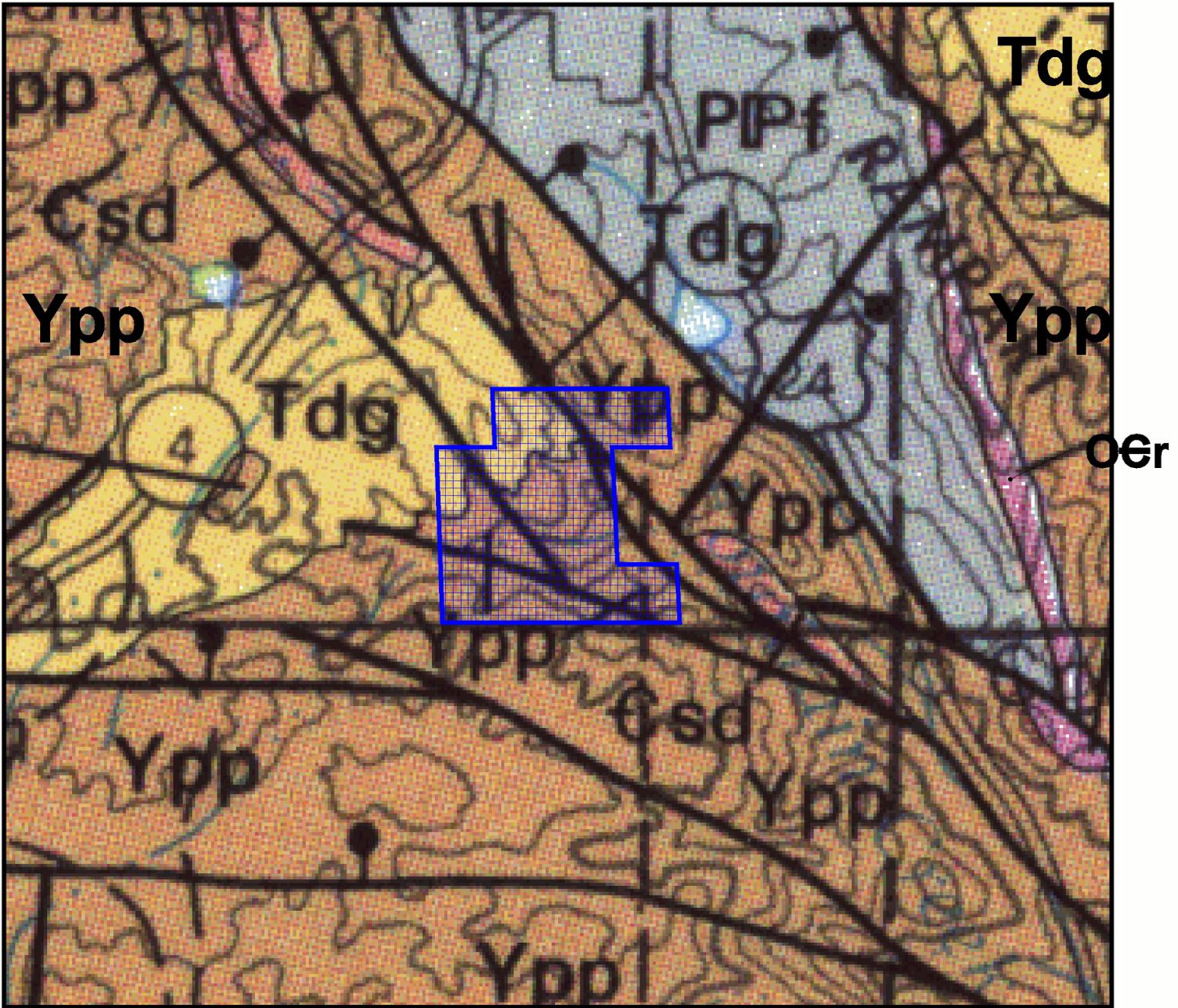
Location: T. 12 S, R. 69 W
 Sections: 36
 Approximate total acreage: 520

 *Mineral acreage evaluated*



1:32,000





Geologic Map for Tract # 119-05

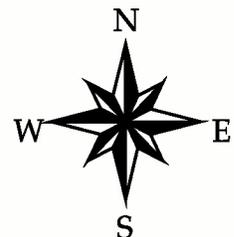
Location: T. 12 S, R. 69 W
 Sections: 36
 Approximate total acreage: 520

 Mineral acreage evaluated

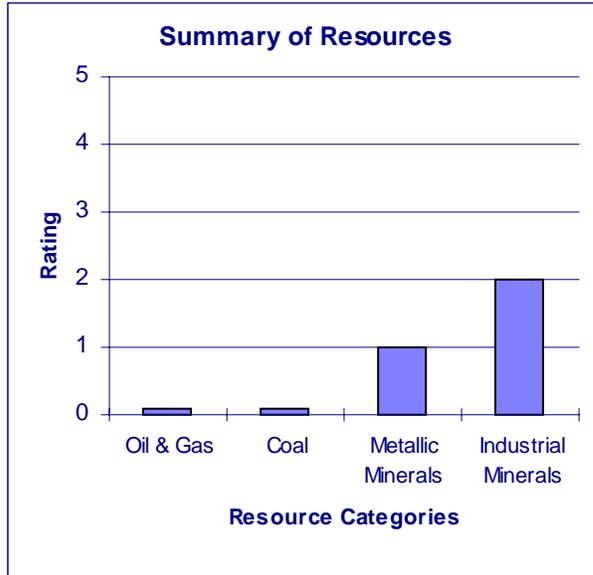
See report text for description of geologic units



1:32,000



STATE LANDBOARD MINERAL INVENTORY



TRACT IDENTIFIER : 119-06

COUNTY: Teller

LOCATION: The tract is located about 4 miles south of the village of Florissant and U.S. Highway 24. An improved road from Florissant goes through the middle of the tract. There are several other improved roads and buildings on the tract.

LEGAL DESCRIPTION:

T. 13 S, R. 71 W, SECTION 36

APPROXIMATE ACREAGE: 640

QUADRANGLE NAME(S): Lake George, Wrights Reservoir

OVERVIEW OF GEOLOGY:

About half the tract is underlain by Pikes Peak Granite. There is a small outcrop of the Wall Mountain Tuff in the northwest corner. The Florissant Lake Beds underlie the remainder of the tract.

(Ypp) Pikes Peak Granite: Pink to reddish, medium- to coarse-grained biotite or hornblende-biotite granite.

(Twm) Wall Mountain Tuff: Biotite-plagioclase-sanidine rhyolite ash flow tuff.

(Tf) Florissant Lake Beds: Pink arkosic conglomerate, purple and gray andesitic tuff and volcanic mudflow breccia, light-colored tuffaceous shale and mudstone, white pumiceous tuff, and gray volcanic conglomerate. Thickness less than 150 feet.

Tuffaceous shale and mudstone beds contain abundant plant and insect fossils; the underlying andesitic tuff and mudflow breccias contain stumps and logs of fossilized *Sequoia* trees.

(Ttmu) Thirtynine Mile Andesite, upper member: Dark-colored andesitic lava flows interbedded with less abundant andesite breccia.

OIL AND GAS RESOURCES:

This tract has no potential for oil and/or natural gas production.

COAL RESOURCES:

No known coal bearing rocks are present on the tract.

METALLIC MINERAL RESOURCES:

The Pikes Peak Granite in this region hosts uranium, fluorite, gem minerals including beryl and topaz, tungsten, rare earth mineral, and minor placer gold occurrences. It appears from the geological map that these occurrences are structurally controlled along north-south and east-west trending faults. No structures of this type occur on the tract.

INDUSTRIAL MINERALS AND CONSTRUCTION MATERIALS:

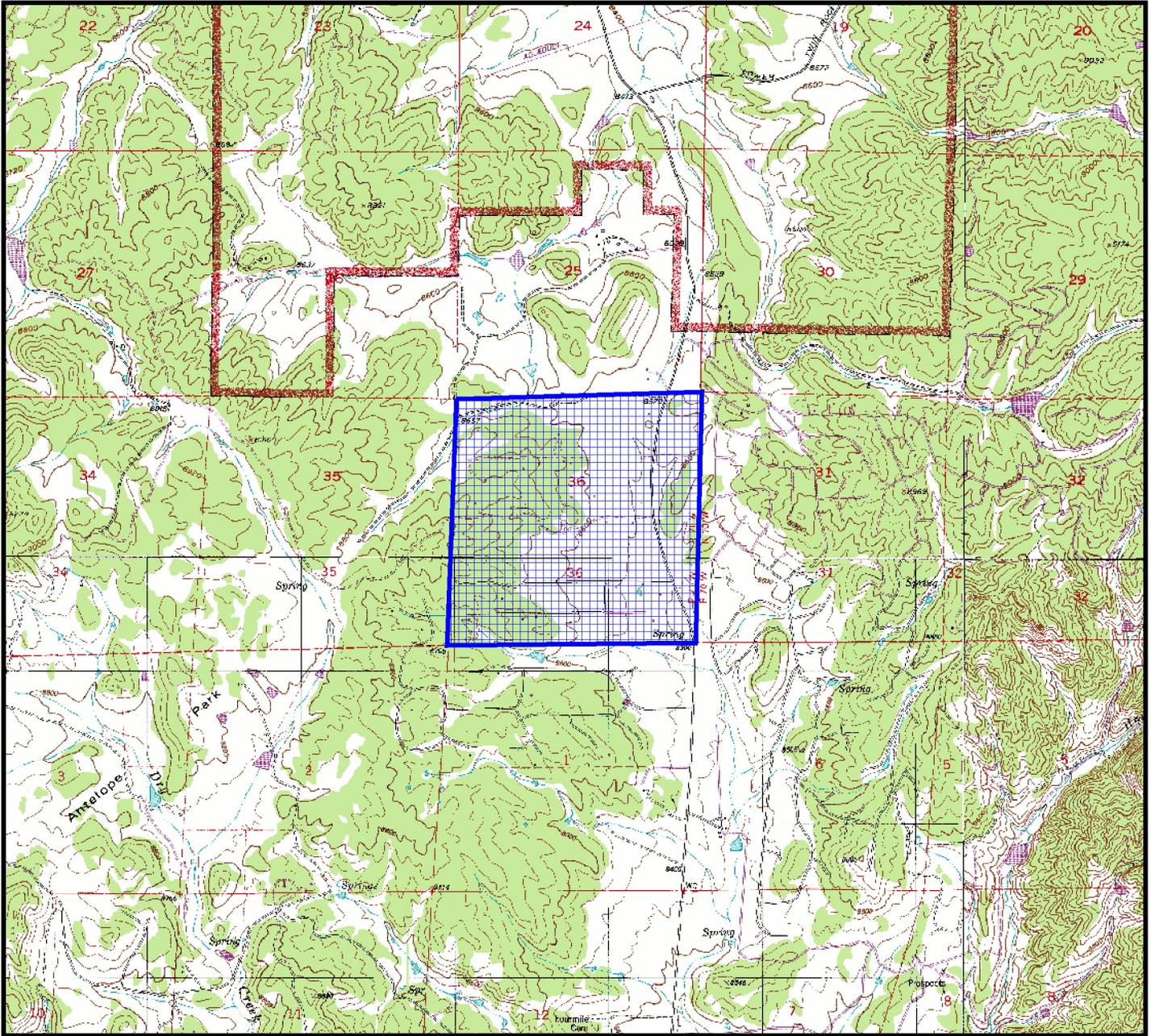
The Wall Mountain Tuff can be used for dimension stone or coarse aggregate. The Florissant Lake Beds contain deposits of pumice that may be used for lightweight aggregate. There are also conglomerate beds that could be used for aggregate. The Thirtynine Mile Andesite can also be used for construction material.

The Pikes Peak Granite can be used for coarse aggregate.

REFERENCES:

Scott, G.R., Taylor, R.B., Epis, R.C., and Wobus, R.A., 1978, Geologic map of the Pueblo 1° X 2° quadrangle, south-central Colorado: U.S. Geological Survey Miscellaneous Investigation Series, I-1022, scale 1:250,000.

Wobus, R.A., and Epis, R.C., 1978, Geologic map of the Florissant 15-minute quadrangle, Park and Teller Counties: U.S. Geological Survey Miscellaneous Investigation Series, I-1044, scale 1:62,500.



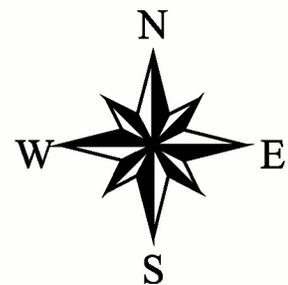
Topographic Map for Tract # 119-06

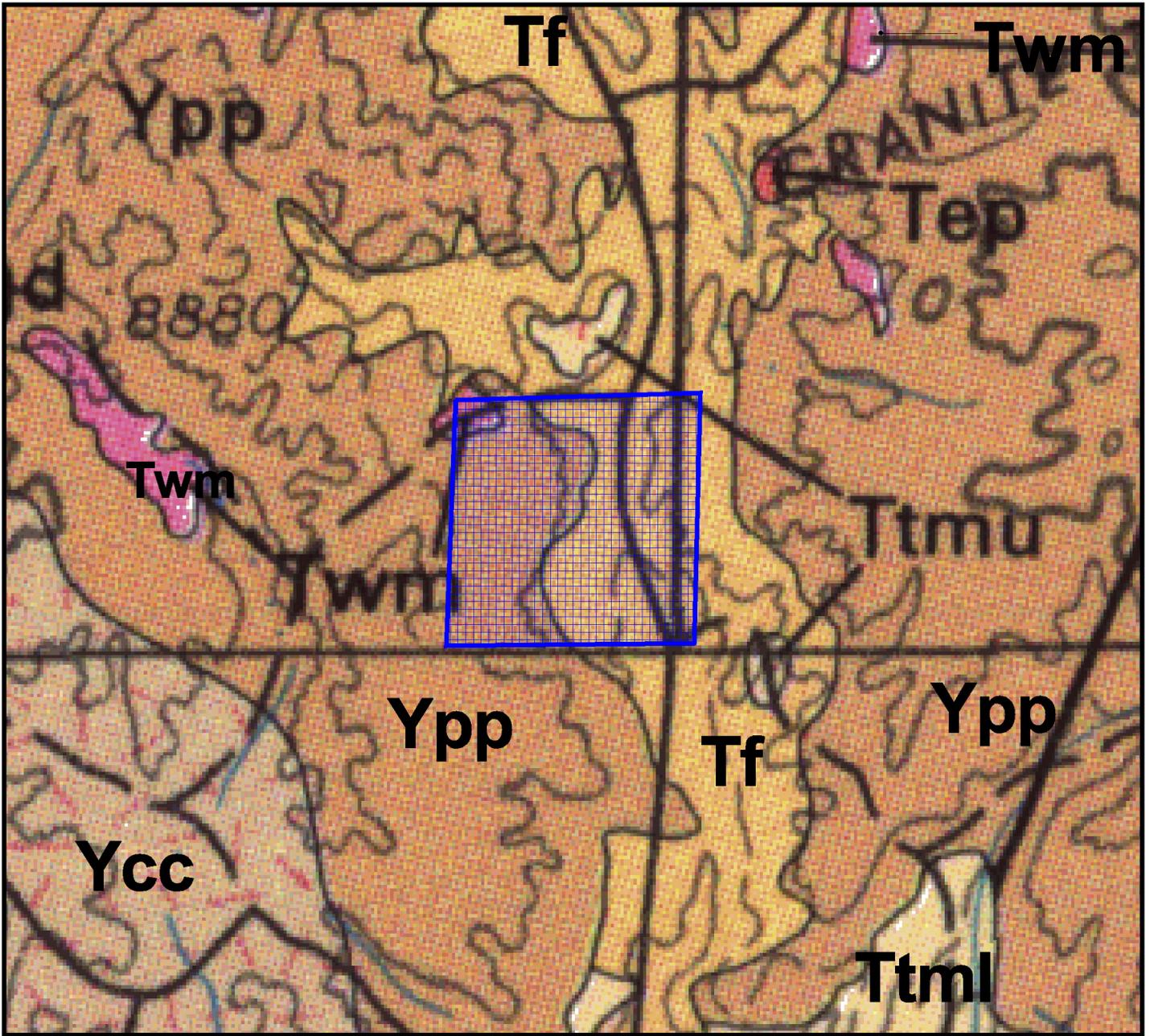
Location: T. 16 S, R. 68 W
Sections: 16
Approximate total acreage: 640

 Mineral acreage evaluated



1:32,000



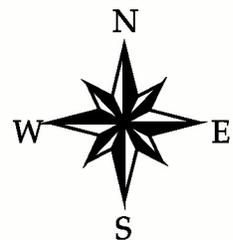


Geologic Map for Tract # 119-06

Location: T. 13 S, R. 71 W
 Sections: 36
 Approximate total acreage: 640

 Mineral acreage evaluated

See report text for description of geologic units

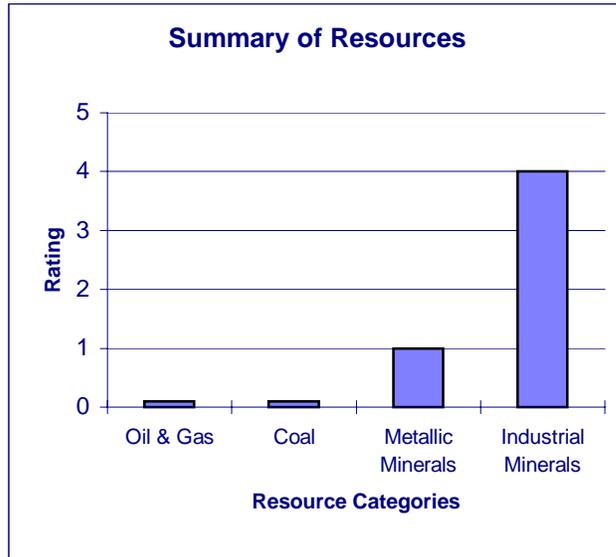


0 1 2 Miles



1:32,000

STATE LANDBOARD MINERAL INVENTORY



TRACT IDENTIFIER : 119-07

COUNTY: Teller

LOCATION: The tract is located about 3 miles west of the village of Divide on U.S. Highway 24. The Twin Rock Road (improved), which cuts off Highway 24 west of Divide, goes through the northern part of the tract. There are several unimproved roads on the tract.

LEGAL DESCRIPTION:

T. 13 S, R. 70 W, SECTION 16

APPROXIMATE ACREAGE: 640

QUADRANGLE NAME(S): Divide

OVERVIEW OF GEOLOGY:

Most of the tract is underlain by Pikes Peak Granite. There is a small exposure of the Gravel at Divide along the northern part of the tract.

(Ypp) Pikes Peak Granite: Pink to reddish, medium- to coarse-grained biotite or hornblende-biotite granite.

(Tgd) Gravel at Divide (Miocene-Pliocene): Bouldery gravel and crudely stratified sand, silt, and clay as much as 200 feet thick.

OIL AND GAS RESOURCES:

This tract has no potential for oil and/or natural gas production.

COAL RESOURCES:

No known coal bearing rocks are present on the tract.

METALLIC MINERAL RESOURCES:

The Pikes Peak Granite in this region hosts uranium, fluorite, gem minerals including beryl and topaz, tungsten, rare earth mineral, and minor placer gold occurrences. It appears from the geological map that these occurrences are structurally controlled along north-south and east-west trending faults. No structures of this type occur on the tract.

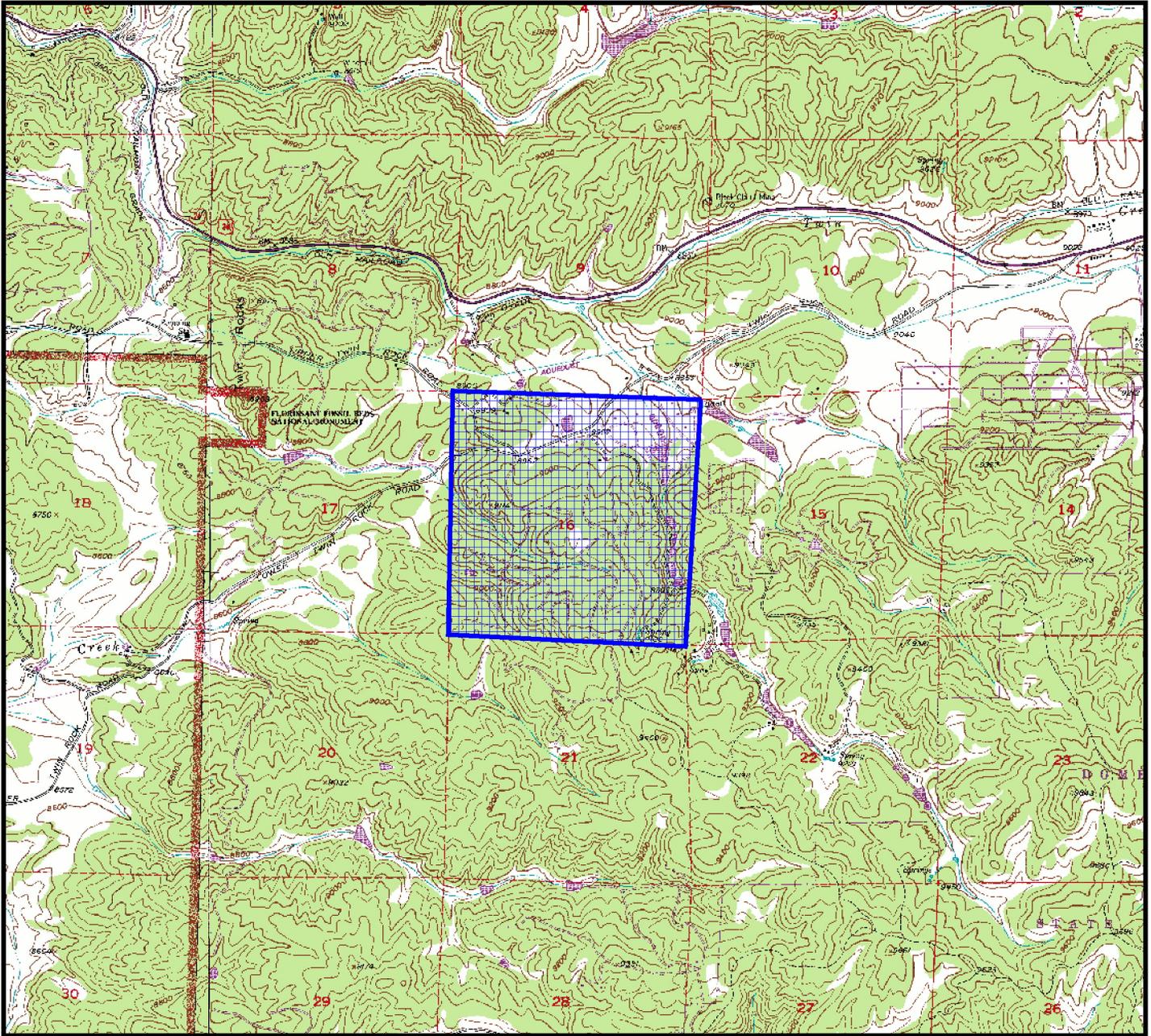
INDUSTRIAL MINERALS AND CONSTRUCTION MATERIALS:

The Gravel at Divide covers about 80 acres of the tract. Its quality for construction purposes is not known. However, assuming a thickness of 20 feet and a density of 111-lbs./cu. ft., there are about 4 million tons of identified resource of gravel on this tract. According to the MRDS database there is a pegmatite mine about a mile north of the tract.

The Pikes Peak Granite can be used for coarse aggregate.

REFERENCES:

Scott, G.R., Taylor, R.B., Epis, R.C., and Wobus, R.A., 1978, Geologic map of the Pueblo 1° X 2° quadrangle, south-central Colorado: U.S. Geological Survey Miscellaneous Investigation Series, I-1022, scale 1:250,000.



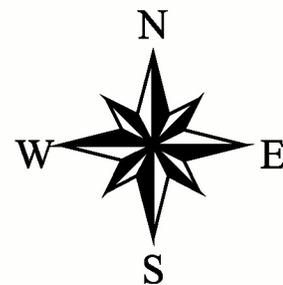
Topographic Map for Tract # 119-07

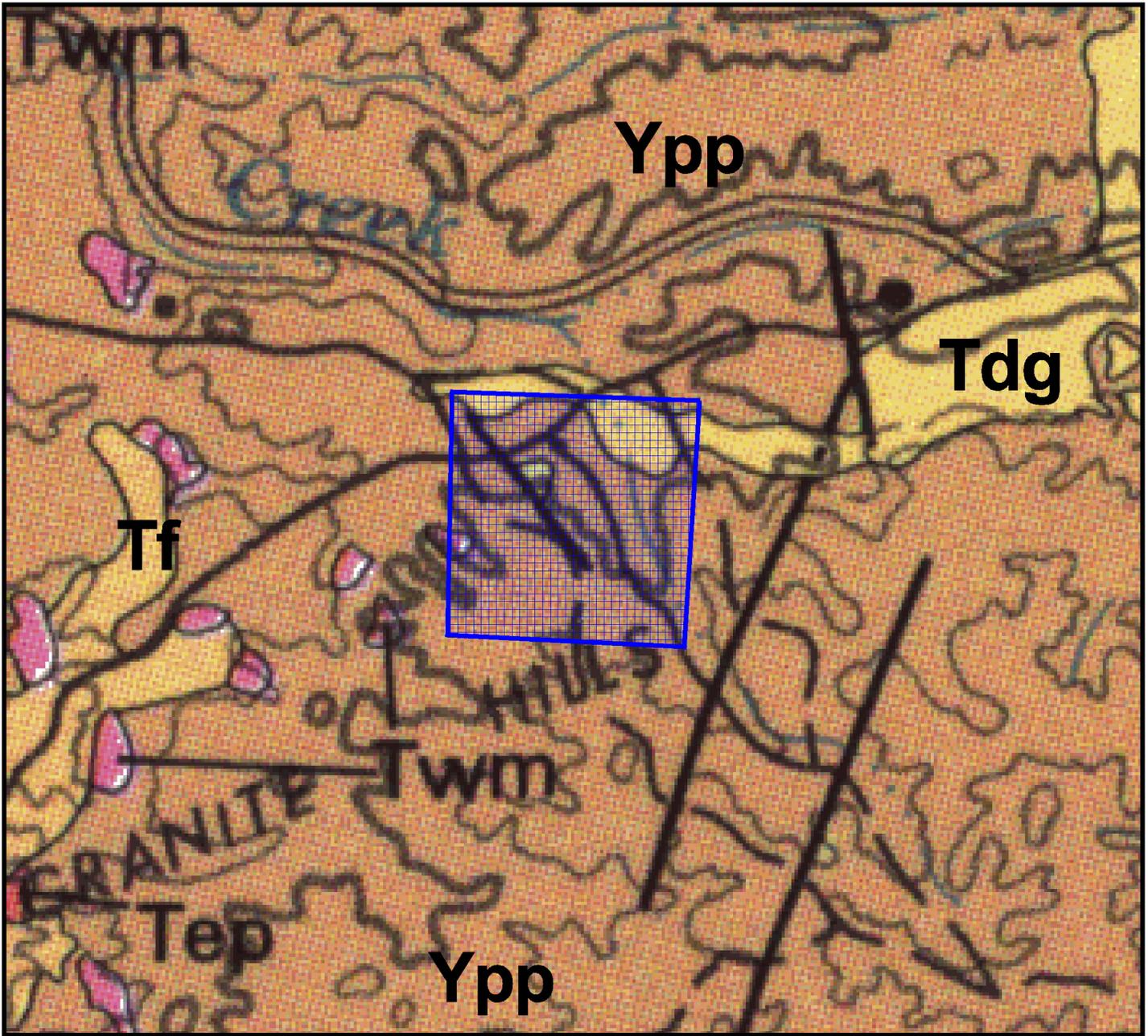
Location: T. 13 S, R. 70 W
Sections: 16
Approximate total acreage: 640

 Mineral acreage evaluated



1:32,000





Geologic Map for Tract # 119-07

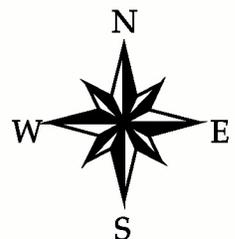
Location: T. 13 S, R. 70 W
 Sections: 16
 Approximate total acreage: 640

 *Mineral acreage evaluated*

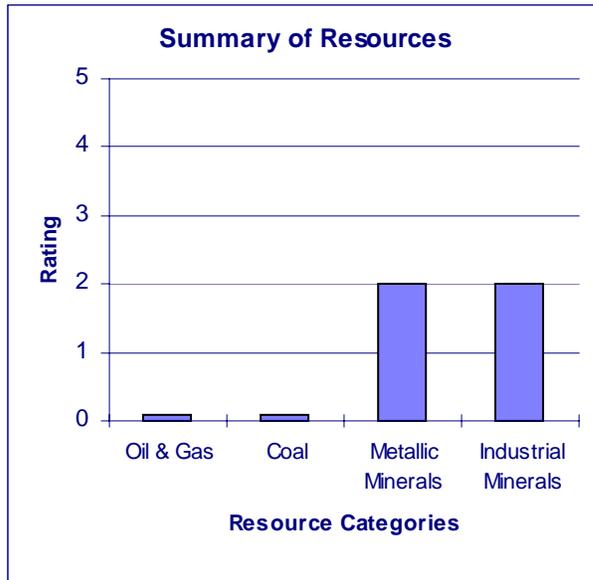
See report text for description of geologic units



1:32,000



STATE LANDBOARD MINERAL INVENTORY



TRACT IDENTIFIER: 119-08

COUNTY: Teller

LOCATION: The tract is located about 4 miles south of the village of Divide on U.S. Highway 24. State Highway 67, the Divide–Cripple Creek road, passes through about 500 feet east of the eastern border of the tract. There are unimproved roads on the tract.

LEGAL DESCRIPTION:

T. 13 S, R. 70 W, SECTION 36

APPROXIMATE ACREAGE: 640

QUADRANGLE NAME(S): Divide, Cripple Creek North

OVERVIEW OF GEOLOGY:

All of the tract is underlain by Pikes Peak Granite.

(Ypp) Pikes Peak Granite: Pink to reddish, medium- to coarse-grained biotite or hornblende-biotite granite.

OIL AND GAS RESOURCES:

This tract has no potential for oil and/or natural gas production.

COAL RESOURCES:

No known coal bearing rocks are present on the tract.

METALLIC MINERAL RESOURCES:

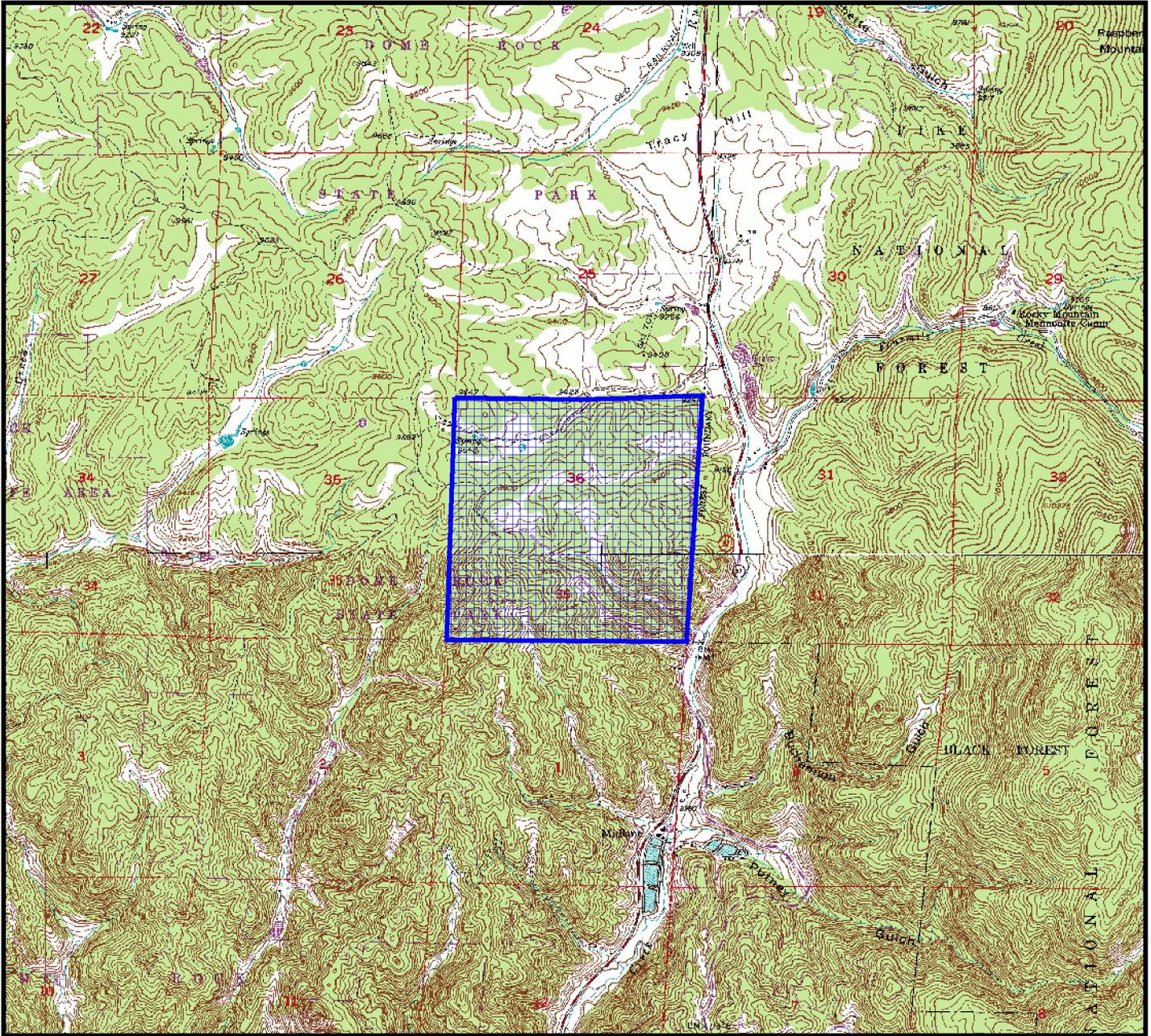
The Pikes Peak Granite in this region hosts uranium, fluorite, gem minerals including beryl and topaz, tungsten, rare earth mineral, and minor placer gold occurrences. It appears from the geological map that these occurrences are structurally controlled along north-south and east-west trending faults. There is a northeast trending structure on the tract that may have some potential for hosting mineralization.

INDUSTRIAL MINERALS AND CONSTRUCTION MATERIALS:

The Pikes Peak Granite can be used for coarse aggregate.

REFERENCES:

- Scott, G.R., Taylor, R.B., Epis, R.C., and Wobus, R.A., 1978, Geologic map of the Pueblo 1° X 2° quadrangle, south-central Colorado: U.S. Geological Survey Miscellaneous Investigation Series, I-1022, scale 1:250,000.
- Wobus, R.A., Epis, R.C., and Scott, 1976, Reconnaissance geologic map of the Cripple Creek-Pikes Peak area, Teller, Fremont, and El Paso Counties, Colorado: U.S. Geological Survey Miscellaneous Field Studies Map MF-805, scale 1:48,000.



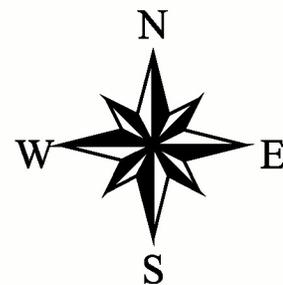
Topographic Map for Tract # 119-08

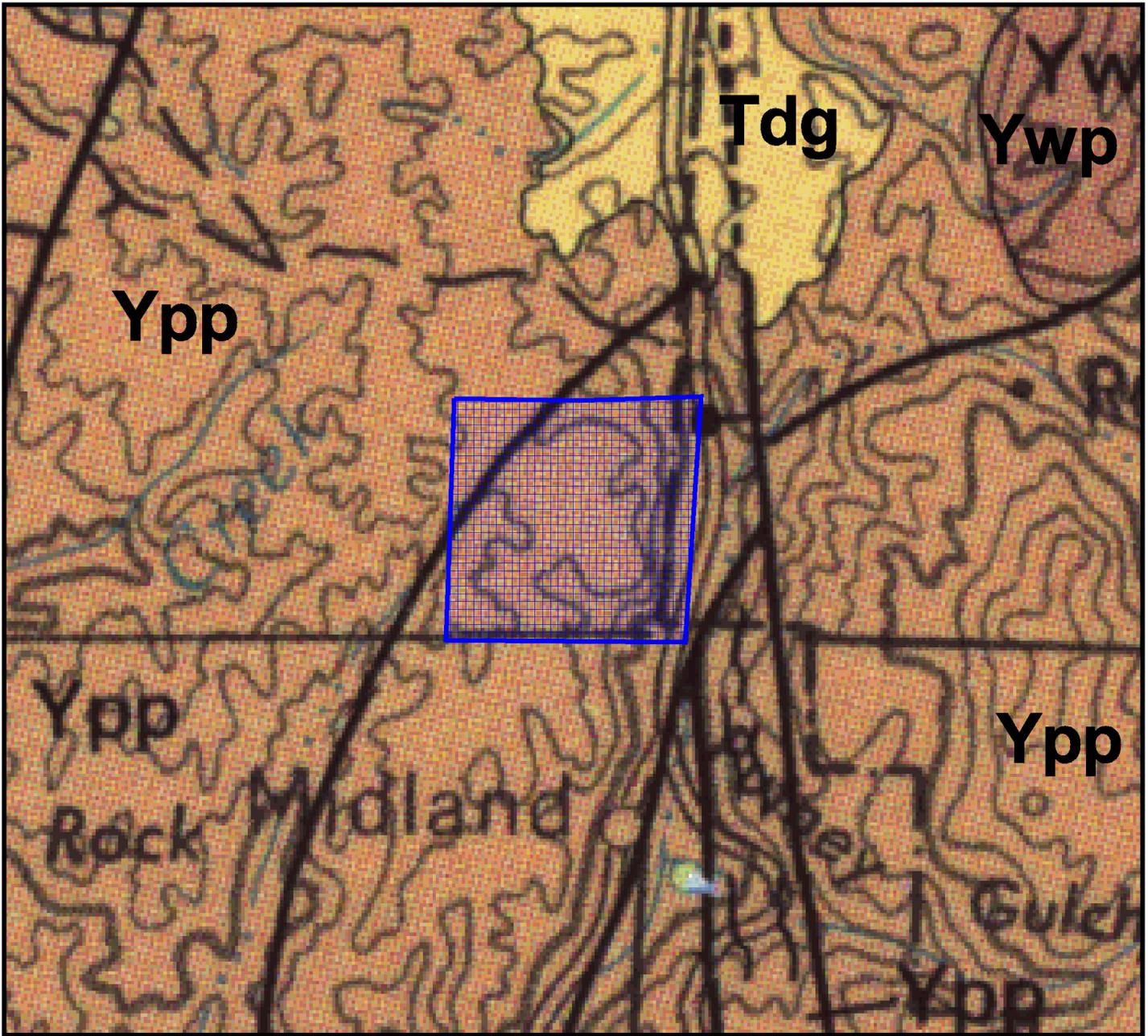
Location: T. 13 S, R. 70 W
 Sections: 36
 Approximate total acreage: 640

 Mineral acreage evaluated



1:32,000





Geologic Map for Tract # 119-08

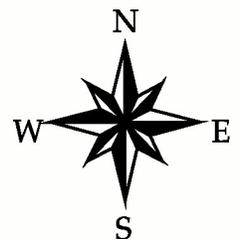
Location: T. 13 S, R. 70 W
 Sections: 36
 Approximate total acreage: 640

 *Mineral acreage evaluated*

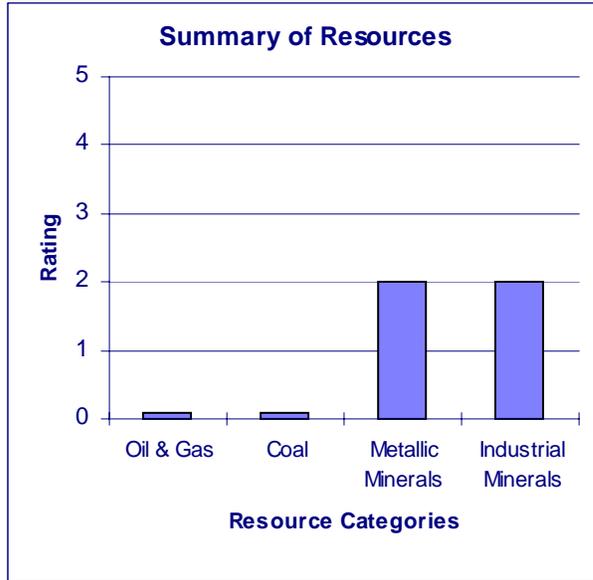
See report text for description of geologic units



1:32,000



STATE LANDBOARD MINERAL INVENTORY



TRACT IDENTIFIER: 119-09

COUNTY: Teller

LOCATION: The tract is located in an isolated area about 5 miles west of the village of Green Mountain Falls. The only access is to the southeast corner of the tract via a 14-mile long road (partially improved) road from Cascade on U.S. Highway 24. There are no unimproved roads on the tract.

LEGAL DESCRIPTION:

T. 13 S, R. 69 W, SECTION 16

APPROXIMATE ACREAGE: 640

QUADRANGLE NAME(S): Woodland Park

OVERVIEW OF GEOLOGY:

All of the tract is underlain by Pikes Peak Granite.

(Ypp) Pikes Peak Granite: Pink to reddish, medium- to coarse-grained biotite or hornblende-biotite granite.

OIL AND GAS RESOURCES:

This tract has no potential for oil and/or natural gas production.

COAL RESOURCES:

No known coal bearing rocks are present on the tract.

METALLIC MINERAL RESOURCES:

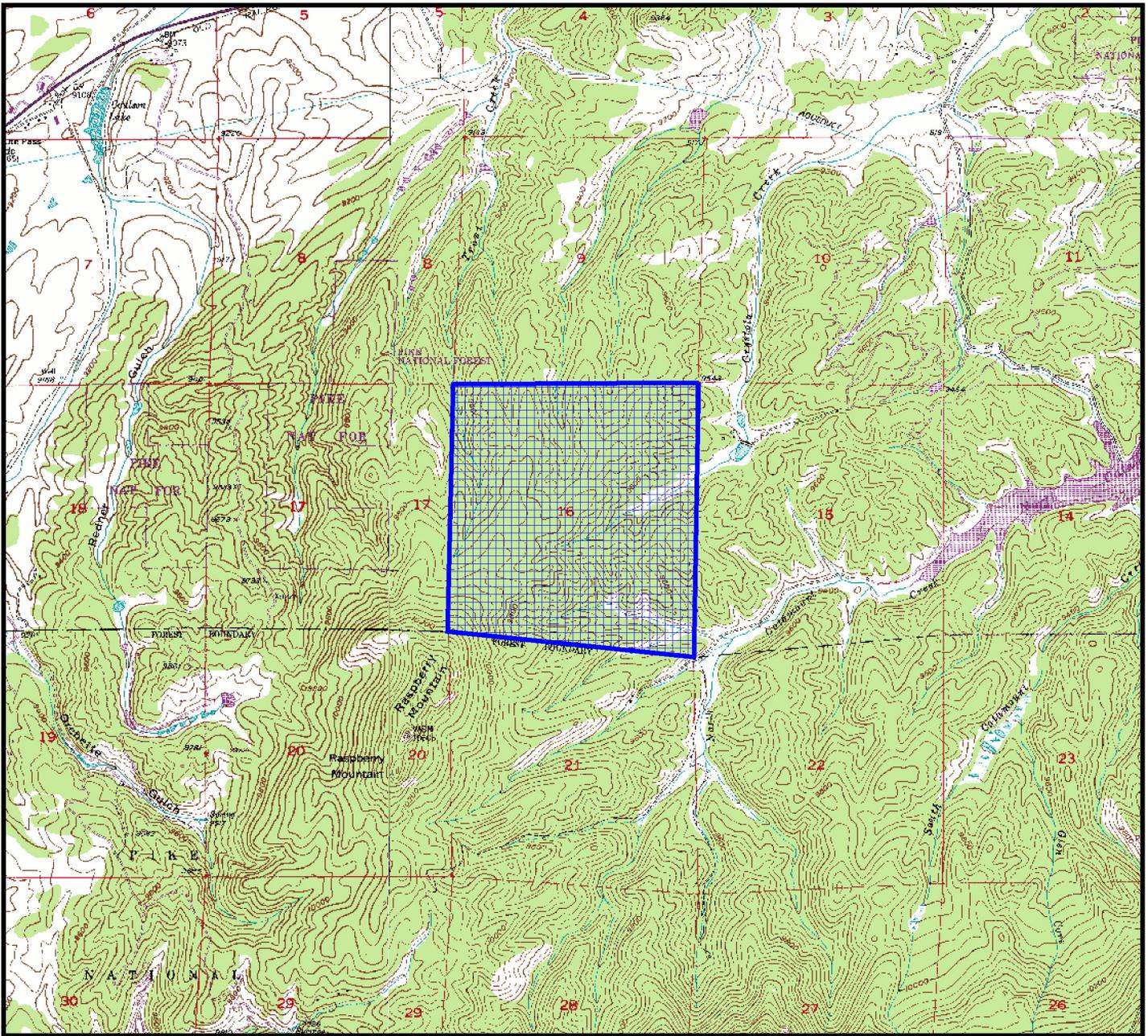
The Pikes Peak Granite in this region hosts uranium, fluorite, gem minerals including beryl and topaz, tungsten, rare earth mineral, and minor placer gold occurrences. It appears from the geological map that these occurrences are structurally controlled along north-south and east-west trending faults. No structures of this type occur on the tract. There is a fluorite occurrence about a mile north of the tract.

INDUSTRIAL MINERALS AND CONSTRUCTION MATERIALS:

The Pikes Peak Granite can be used for coarse aggregate.

REFERENCES:

Scott, G.R., Taylor, R.B., Epis, R.C., and Wobus, R.A., 1978, Geologic map of the Pueblo 1° X 2° quadrangle, south-central Colorado: U.S. Geological Survey Miscellaneous Investigation Series, I-1022, scale 1:250,000.



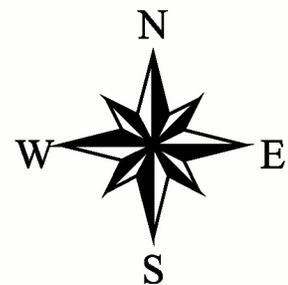
Topographic Map for Tract # 119-09

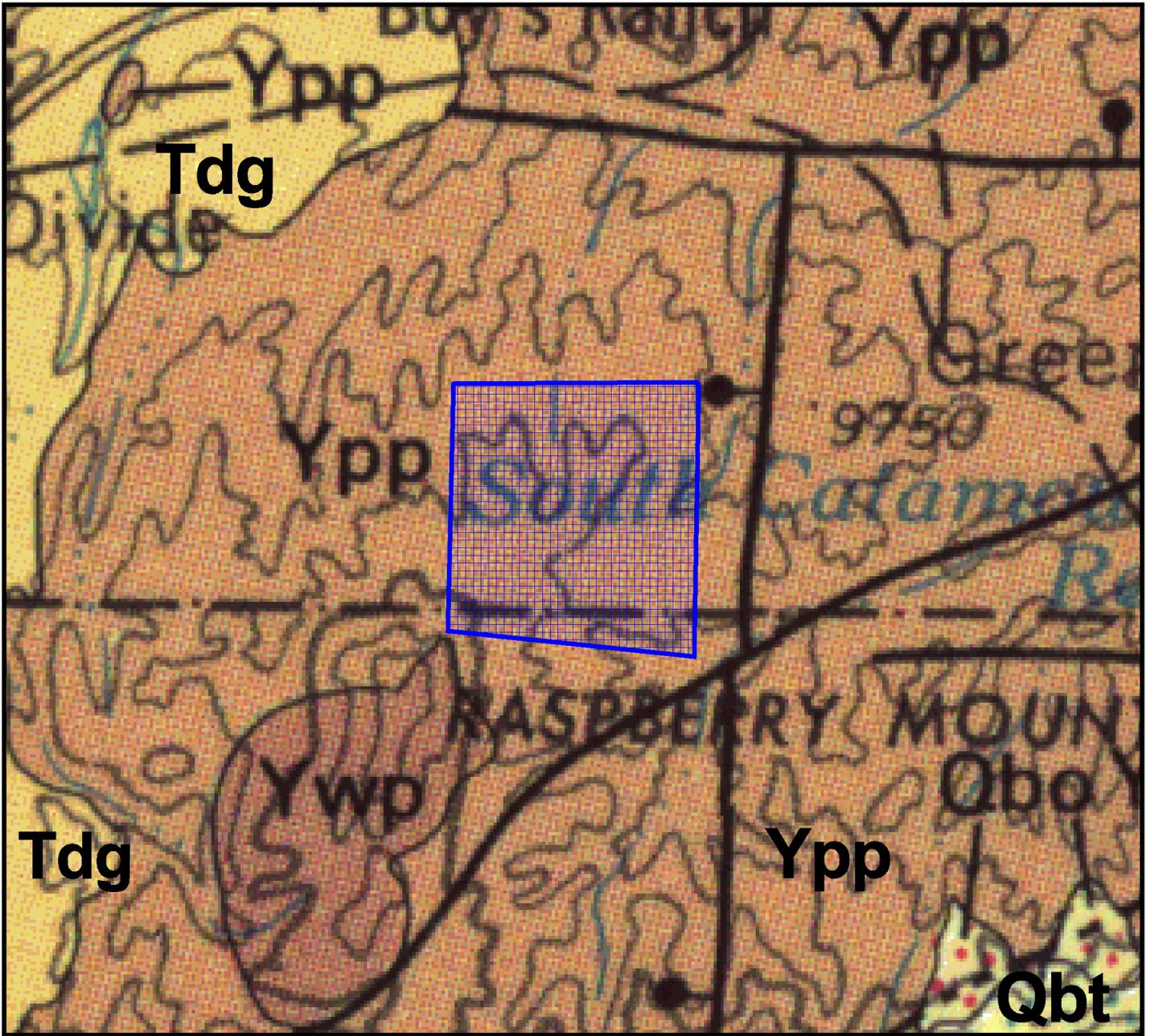
Location: T. 13 S, R. 69 W
 Sections: 16
 Approximate total acreage: 640

 Mineral acreage evaluated



1:32,000





Geologic Map for Tract # 119-09

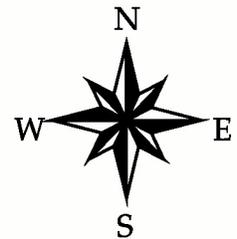
Location: T. 13 S, R. 69 W
 Sections: 16
 Approximate total acreage: 640

 Mineral acreage evaluated

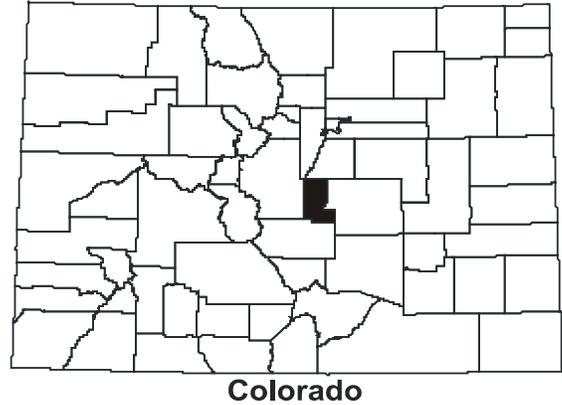
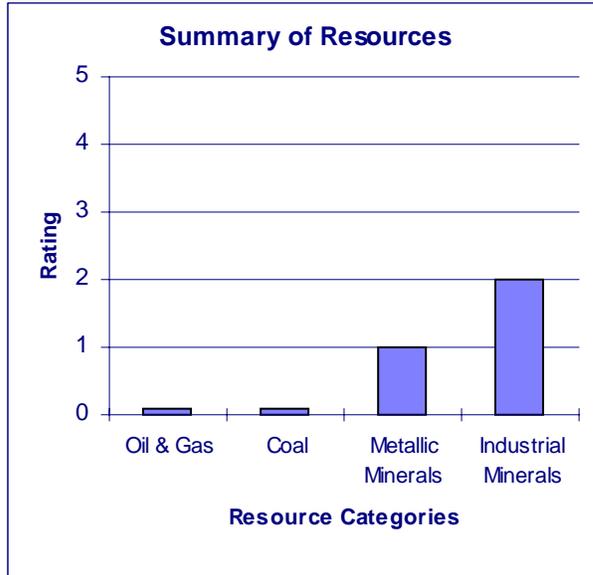
See report text for description of geologic units



1:32,000



STATE LANDBOARD MINERAL INVENTORY



TRACT IDENTIFIER : 119-10

COUNTY: Teller

LOCATION: The tract is located about 9 road miles west of the city of Cripple Creek. An improved road from Cripple Creek and Wrights Reservoir goes through the eastern half of the tract. There are unimproved roads on the tract.

LEGAL DESCRIPTION:

T. 14 S, R. 71 W, SECTION 36

APPROXIMATE ACREAGE: 640

QUADRANGLE NAME(S): Wrights Reservoir

OVERVIEW OF GEOLOGY:

About a third half the tract is underlain by the Cripple Creek Quartz monzonite. There are Tertiary age volcanic units that occupy a paleovalley south of Wrights Reservoir.

(Ycc) Cripple Creek Quartz Monzonite: Pink to reddish, medium-grained muscovite-biotite quartz monzonite.

(Ttc) Tallahassee Creek Conglomerate: Grayish-pink, poorly sorted, crudely stratified pebble and boulder conglomerate with tuffaceous and arkosic sandy matrix. Clasts are mainly red, purple, and gray intermediate volcanic rocks, light green quartzite, Wall Mountain Tuff, and Proterozoic rocks.

(Ttml) Thirtynine Mile Andesite-lower member: Chiefly unstratified, unsorted, well indurated, dark-colored andesite mudflow breccia, locally containing minor pyroclastic and autoclastic breccia.

OIL AND GAS RESOURCES:

This tract has no potential for oil and/or natural gas production.

COAL RESOURCES:

No known coal bearing rocks are present on the tract.

METALLIC MINERAL RESOURCES:

The Tallahassee Creek Conglomerate contains significant stratiform uranium mineralization about 15 miles to the south in Fremont County. The Tallahassee Creek district contains two main deposits totaling 13 million kilograms of U_3O_8 . The average grade of the deposits is 0.08% U_3O_8 (Dickinson, 1981). In the Tallahassee Creek district, uraninite, coffinite, and meta-autinite are found in an ash fall (bentonite) layer in the Tallahassee Creek Conglomerate.

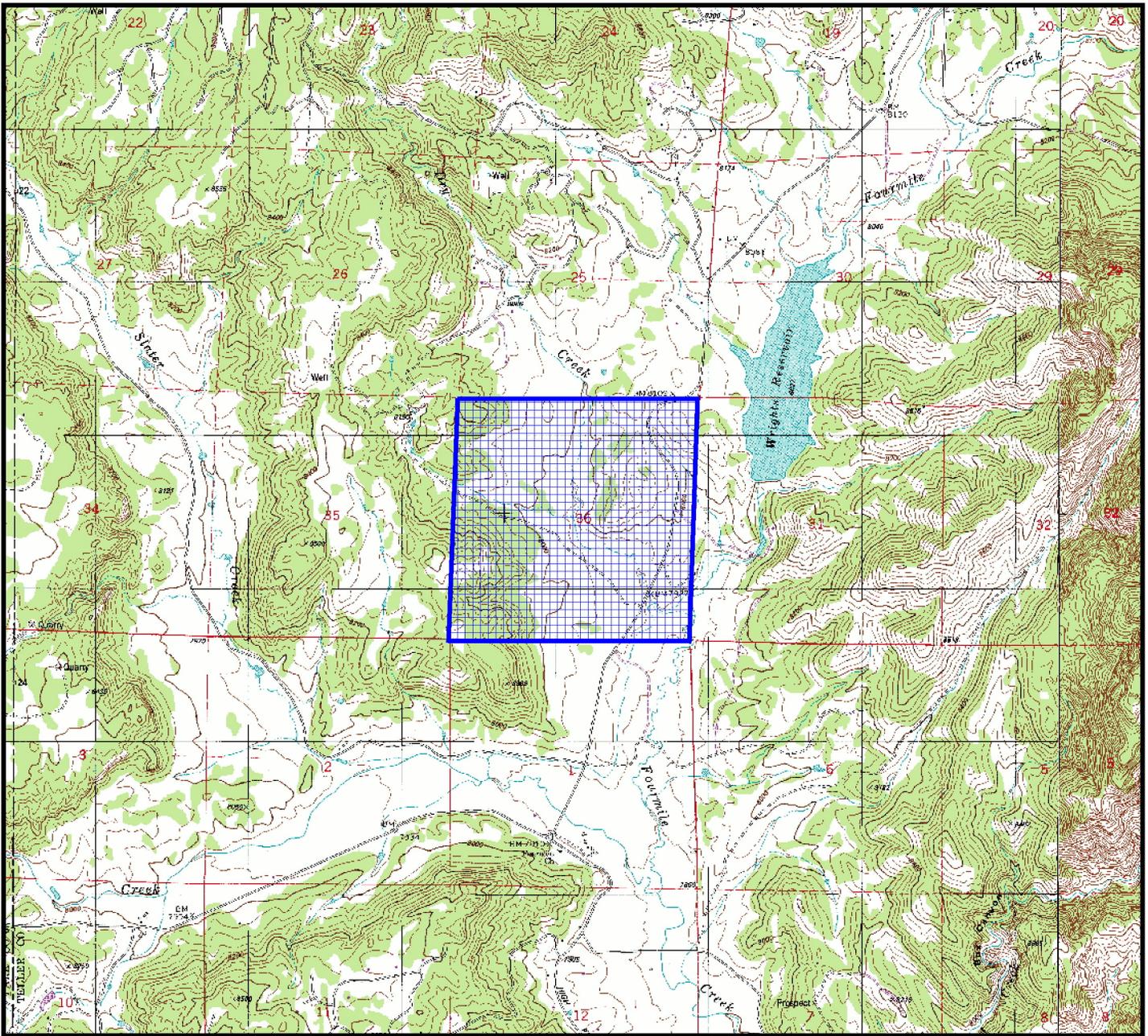
INDUSTRIAL MINERALS AND CONSTRUCTION MATERIALS:

The quality of the Tallahassee Creek Conglomerate for construction material purposes is not known; however, the lithological description of the conglomerate beds indicate that they may be useful for construction material purposes.

The Cripple Creek Quartz Monzonite can be used for coarse aggregate.

REFERENCES:

- Dickinson, K.A., 1981, Geological controls of uranium mineralization in the Tallahassee Creek Uranium District, Fremont County, Colorado: *The Mountain Geologist*, v. 18, no. 4, p. 88-95.
- Scott, G.R., Taylor, R.B., Epis, R.C., and Wobus, R.A., 1978, Geologic map of the Pueblo 1° X 2° quadrangle, south-central Colorado: U.S. Geological Survey Miscellaneous Investigation Series, I-1022, scale 1:250,000.
- Wobus, R.A., and Epis, R.C., 1978, Geologic map of the Florissant 15-minute quadrangle, Park and Teller Counties: U.S. Geological Survey Miscellaneous Investigation Series, I-1044, scale 1:62,500.



Topographic Map for Tract # 119-10

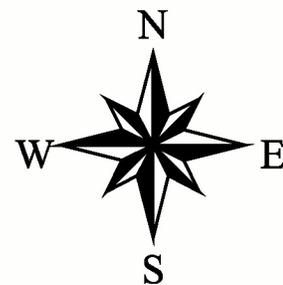
Location: T. 14 S, R. 71 W
Sections: 36
Approximate total acreage: 640

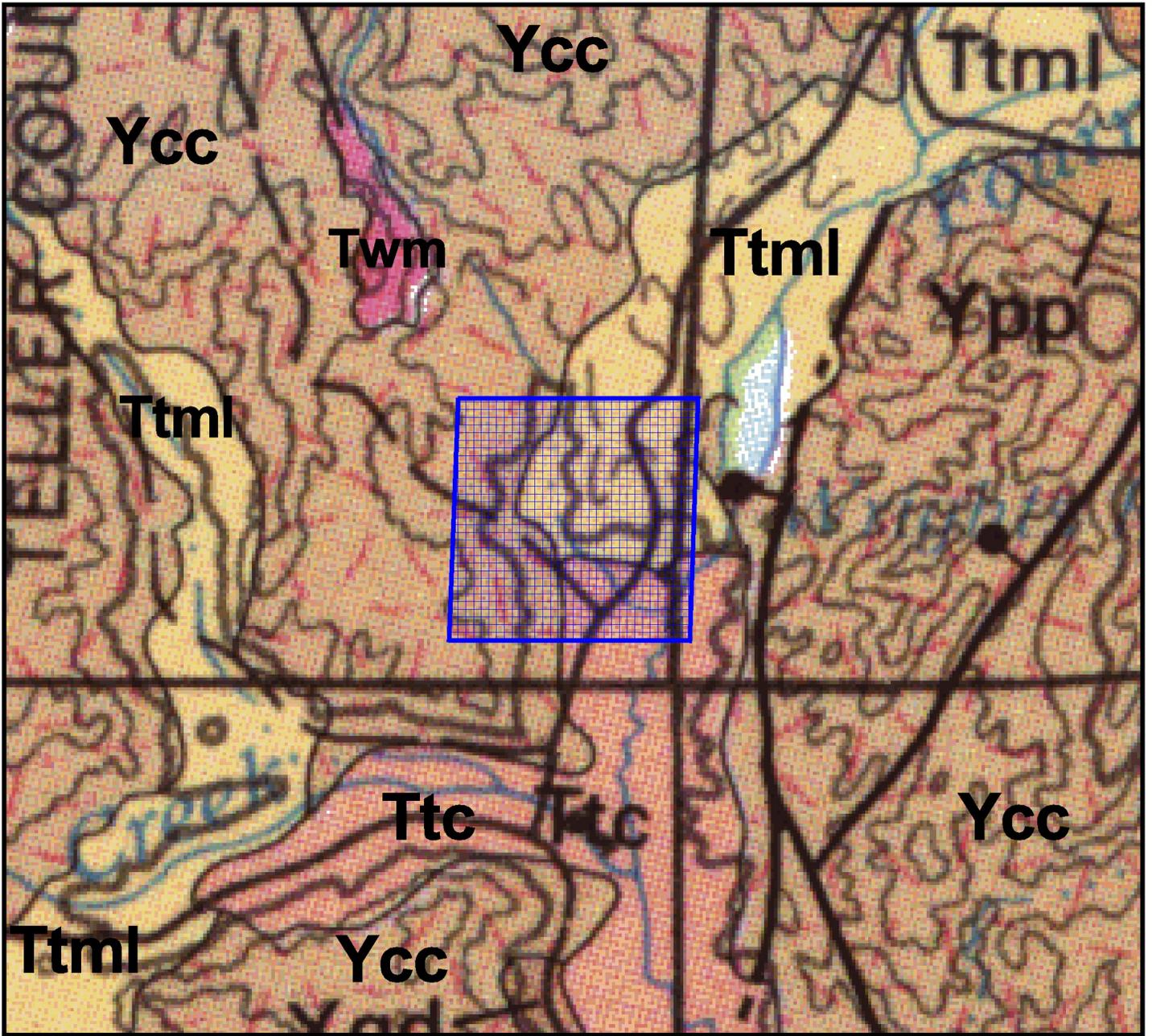
 Mineral acreage evaluated

0 1 2 Miles



1:32,000





Geologic Map for Tract # 119-10

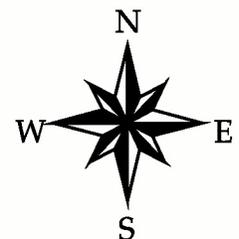
Location: T. 14 S, R. 71 W
 Sections: 36
 Approximate total acreage: 640

 Mineral acreage evaluated

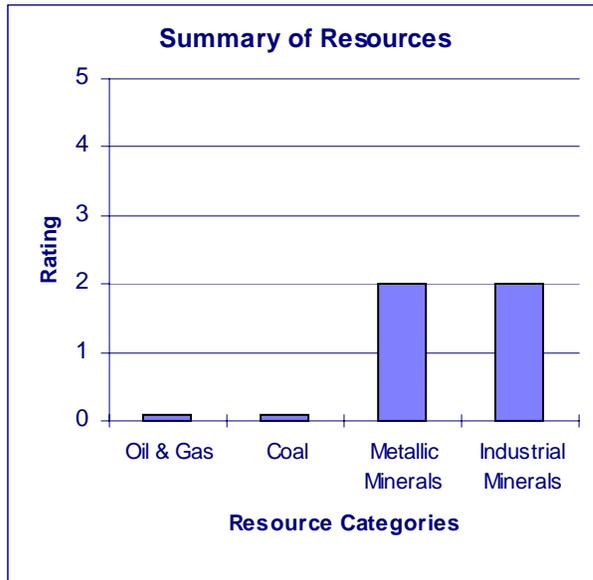
See report text for description of geologic units



1:32,000



STATE LANDBOARD MINERAL INVENTORY



TRACT IDENTIFIER: 119-11

COUNTY: Teller

LOCATION: The tract is located in an isolated area about 6 miles northwest of the city of Cripple Creek. The only access is to about one mile south of the southwest corner of the tract via State Highway 143. There are no unimproved roads on the tract.

LEGAL DESCRIPTION:

T. 14 S, R. 70 W, SECTION 16

APPROXIMATE ACREAGE: 640

QUADRANGLE NAME(S): Cripple Creek North

OVERVIEW OF GEOLOGY:

All of the tract is underlain by Pikes Peak Granite.

(Ypp) Pikes Peak Granite: Pink to reddish, medium- to coarse-grained biotite or hornblende-biotite granite.

OIL AND GAS RESOURCES:

This tract has no potential for oil and/or natural gas production.

COAL RESOURCES:

No known coal bearing rocks are present on the tract.

METALLIC MINERAL RESOURCES:

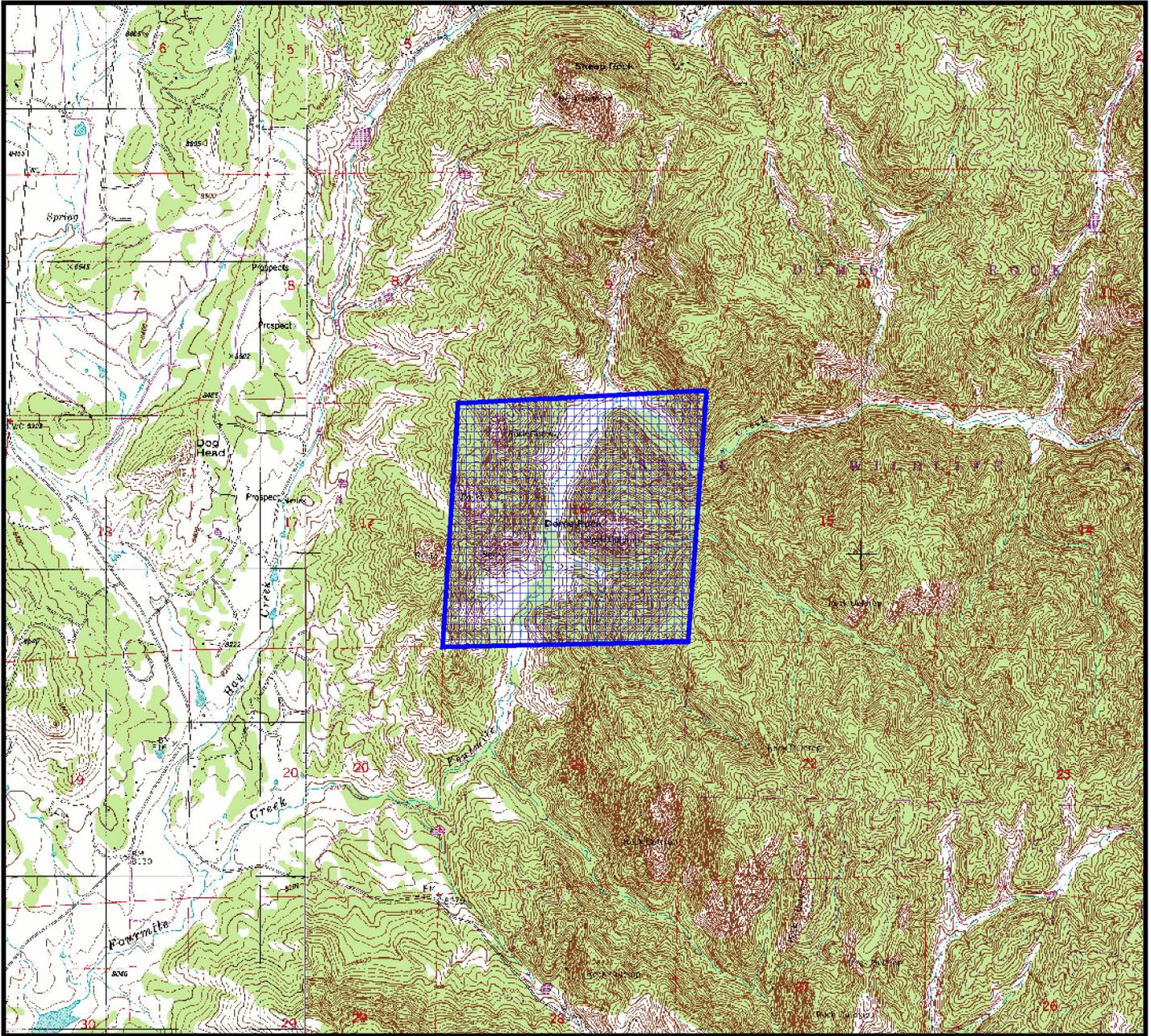
The Pikes Peak Granite in this region hosts uranium, fluorite, gem minerals including beryl and topaz, tungsten, rare earth mineral, and minor placer gold occurrences. It appears from the geological map that these occurrences are structurally controlled along north-south and east-west trending faults. No structures of this type occur on the tract.

INDUSTRIAL MINERALS AND CONSTRUCTION MATERIALS:

The Pikes Peak Granite can be used for coarse aggregate.

REFERENCES:

- Scott, G.R., Taylor, R.B., Epis, R.C., and Wobus, R.A., 1978, Geologic map of the Pueblo 1° X 2° quadrangle, south-central Colorado: U.S. Geological Survey Miscellaneous Investigation Series, I-1022, scale 1:250,000.
- Wobus, R.A., Epis, R.C., and Scott, 1976, Reconnaissance geologic map of the Cripple Creek-Pikes Peak area, Teller, Fremont, and El Paso Counties, Colorado: U.S. Geological Survey Miscellaneous Field Studies Map MF-805, scale 1:48,000.



Topographic Map for Tract # 119-11

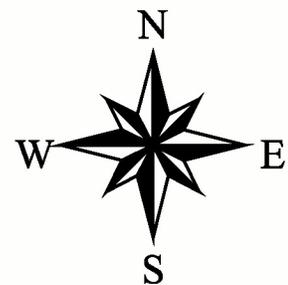
Location: T. 14 S, R. 70 W
Sections: 16
Approximate total acreage: 640

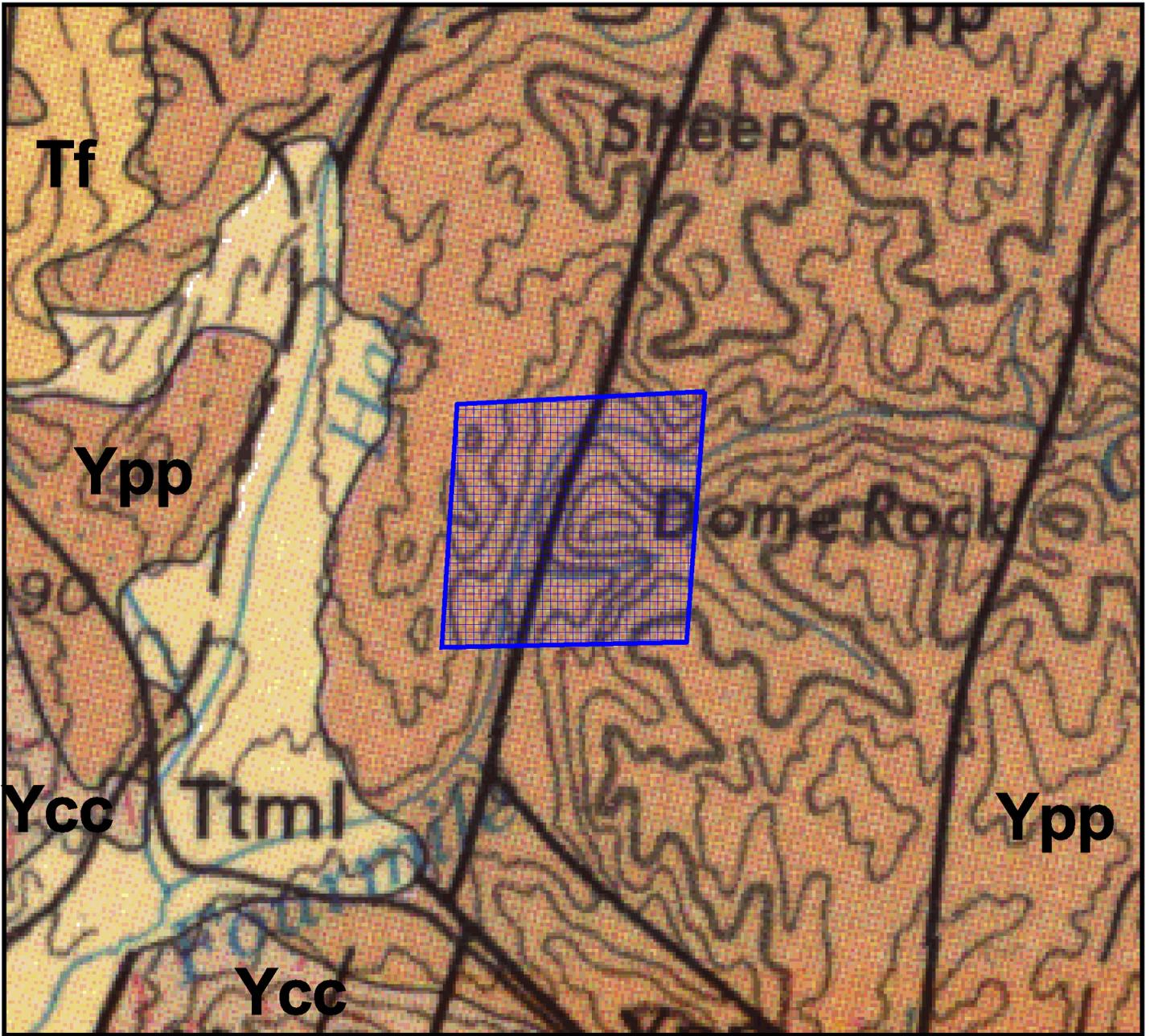
 *Mineral acreage evaluated*

0 1 2 Miles



1:32,000





Geologic Map for Tract # 119-11

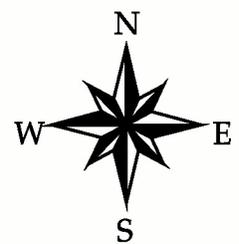
Location: T. 14 S, R. 70 W
 Sections: 16
 Approximate total acreage: 640

 *Mineral acreage evaluated*

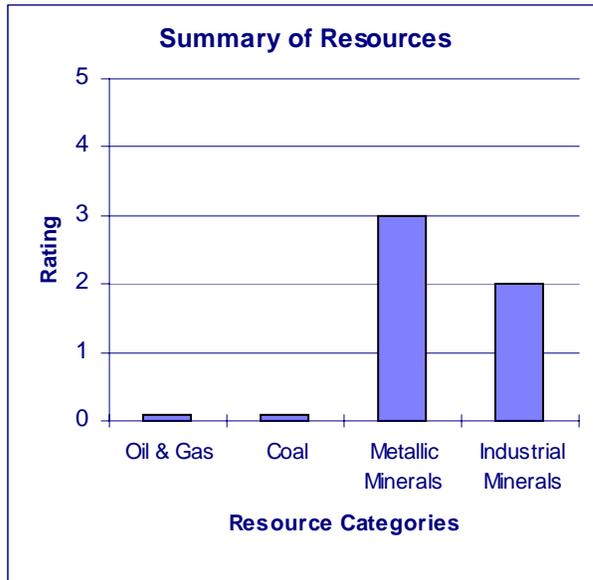
See report text for description of geologic units



1:32,000



STATE LANDBOARD MINERAL INVENTORY



TRACT IDENTIFIER: 119-12

COUNTY: Teller

LOCATION: The tract is located in an isolated area on the north slope of Rhyolite Mountain about 2 miles north of the city of Cripple Creek. The only access is to the northwest quarter of the section via an improved road along Barnhard Creek from State Highway 143 about 2 miles north of Cripple Creek. Access on the south and east side of the tract is via improved roads from Cripple Creek to the tract boundary.

LEGAL DESCRIPTION:

T. 14 S, R. 70 W, SECTION 36

APPROXIMATE ACREAGE: 640

QUADRANGLE NAME(S): Cripple Creek North

OVERVIEW OF GEOLOGY:

Most of the tract is underlain by Pikes Peak Granite. There is a small exposure of volcanic rocks related to the Cripple Creek diatreme in the southeast corner of the tract.

(Ypp) Pikes Peak Granite: Pink to reddish, medium- to coarse-grained biotite or hornblende-biotite granite.

(Tbt) Breccia: Gray to red, generally bleached light gray, breccia composed of Cripple Creek phonolite and latite clasts and Proterozoic xenoliths. Texture ranges from silt-sized

ash to blocks more than three feet in diameter. Nearly all the breccia is highly altered and pyritic.

OIL AND GAS RESOURCES:

This tract has no potential for oil and/or natural gas production.

COAL RESOURCES:

No known coal bearing rocks are present on the tract.

METALLIC MINERAL RESOURCES:

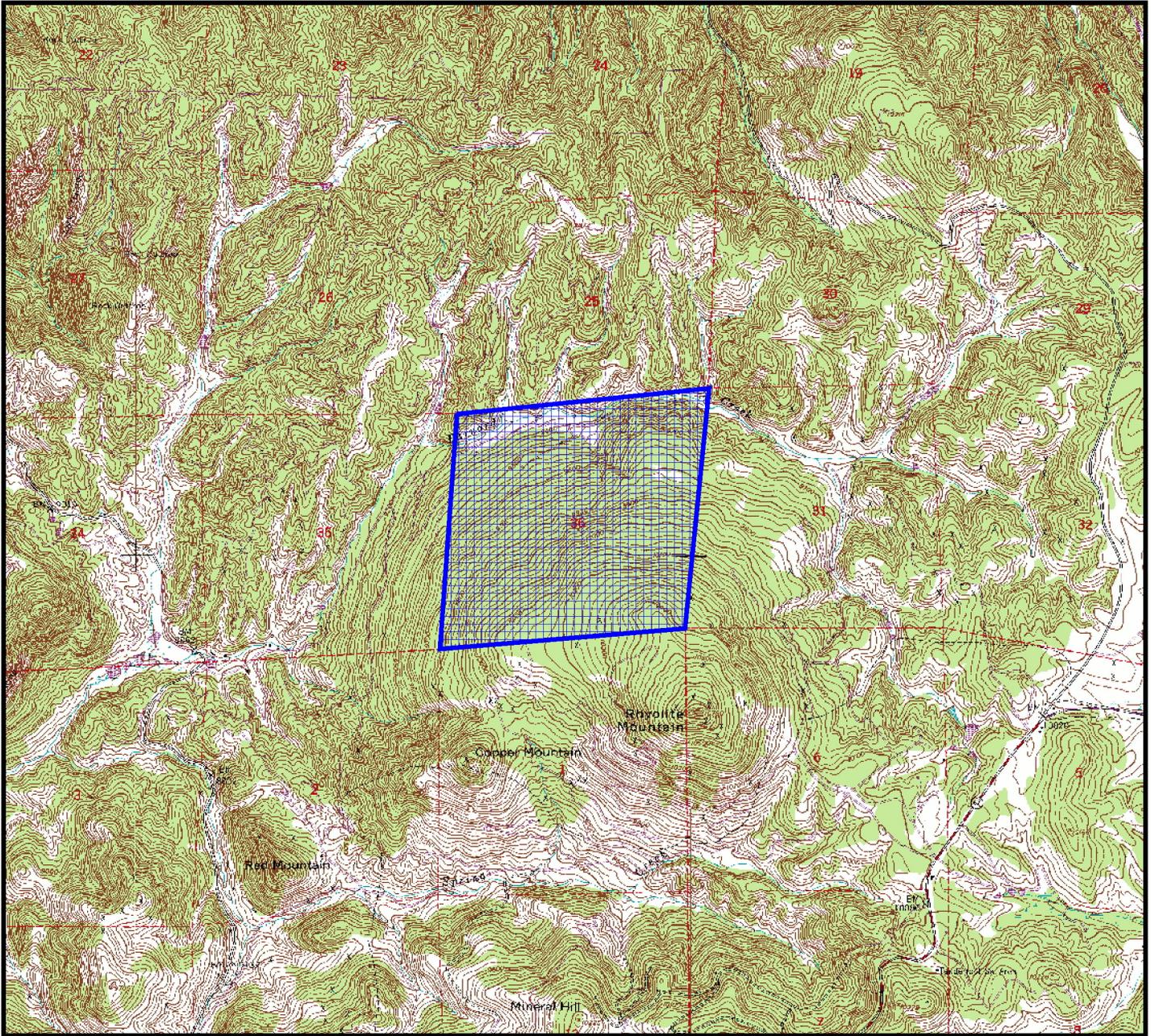
The Pikes Peak Granite in this region hosts uranium, fluorite, gem minerals including beryl and topaz, tungsten, rare earth mineral, and minor placer gold occurrences. It appears from the geological map that these occurrences are structurally controlled along north-south and east-west trending faults. No structures of this type occur on the tract. The breccia in the southeast corner of the tract and in adjoining areas shows several prospect pits on the topographic map. The breccia is genetically and lithologically related to the main volcanic phonolite breccia of the Cripple Creek district. The Cripple Creek district has produced about 24 million ounces of gold from both high-grade vein and low grade disseminated deposits, primarily in the phonolite breccia.

INDUSTRIAL MINERALS AND CONSTRUCTION MATERIALS:

The Pikes Peak Granite can be used for coarse aggregate.

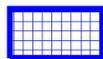
REFERENCES:

- Scott, G.R., Taylor, R.B., Epis, R.C., and Wobus, R.A., 1978, Geologic map of the Pueblo 1° X 2° quadrangle, south-central Colorado: U.S. Geological Survey Miscellaneous Investigation Series, I-1022, scale 1:250,000.
- Wobus, R.A., Epis, R.C., and Scott, 1976, Reconnaissance geologic map of the Cripple Creek-Pikes Peak area, Teller, Fremont, and El Paso Counties, Colorado: U.S. Geological Survey Miscellaneous Field Studies Map MF-805, scale 1:48,000.



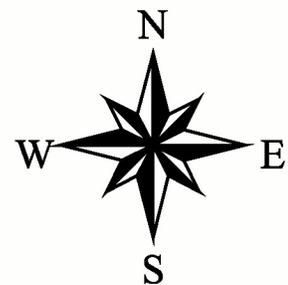
Topographic Map for Tract # 119-12

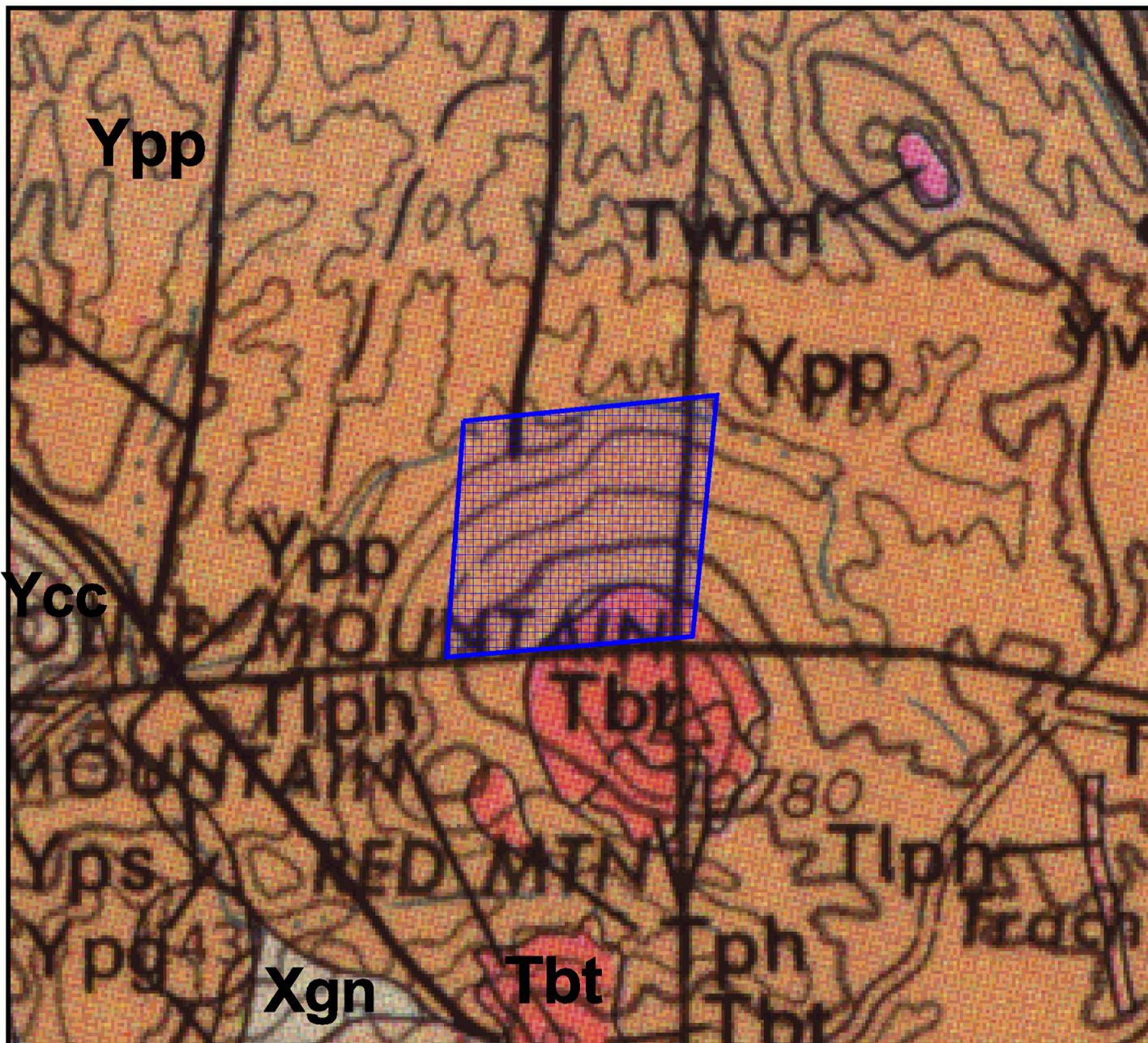
Location: T. 14 S, R. 70 W
Sections: 36
Approximate total acreage: 640

 *Mineral acreage evaluated*



1:32,000





Geologic Map for Tract # 119-12

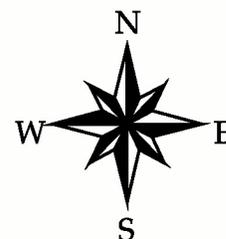
Location: T. 14 S, R. 70 W
 Sections: 36
 Approximate total acreage: 640

 Mineral acreage evaluated

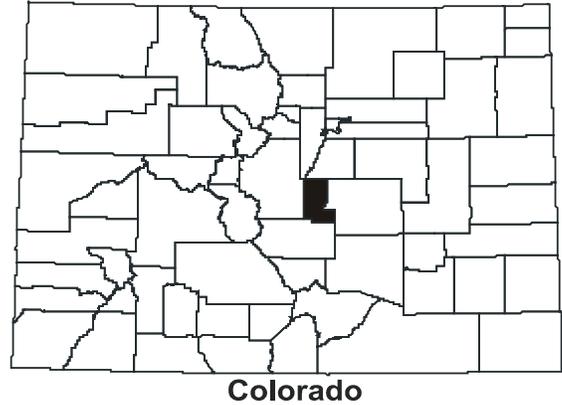
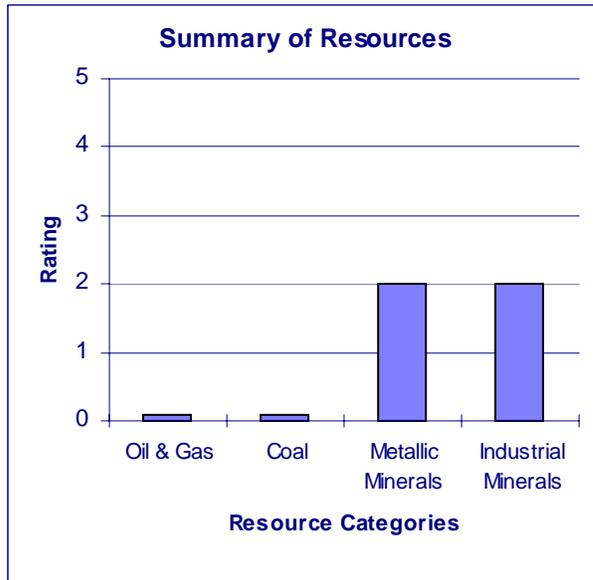
See report text for description of geologic units



1:32,000



STATE LANDBOARD MINERAL INVENTORY



TRACT IDENTIFIER: 119-13

COUNTY: Teller

LOCATION: The tract is located in an isolated area about 8 miles northeast of the City of Cripple Creek along State Highway 67. The only access is to about a half mile west of the western border of the tract via State Highway 67. There are no roads on the tract.

LEGAL DESCRIPTION:
T. 14 S, R. 69 W, NW1/4 SECTION 16

APPROXIMATE ACREAGE: 160

QUADRANGLE NAME(S): Pikes Peak, Cripple Creek North

OVERVIEW OF GEOLOGY:
All of the tract is underlain by Pikes Peak Granite.

(Ypp) Pikes Peak Granite: Pink to reddish, medium- to coarse-grained biotite or hornblende-biotite granite.

OIL AND GAS RESOURCES:
This tract has no potential for oil and/or natural gas production.

COAL RESOURCES:

No known coal bearing rocks are present on the tract.

METALLIC MINERAL RESOURCES:

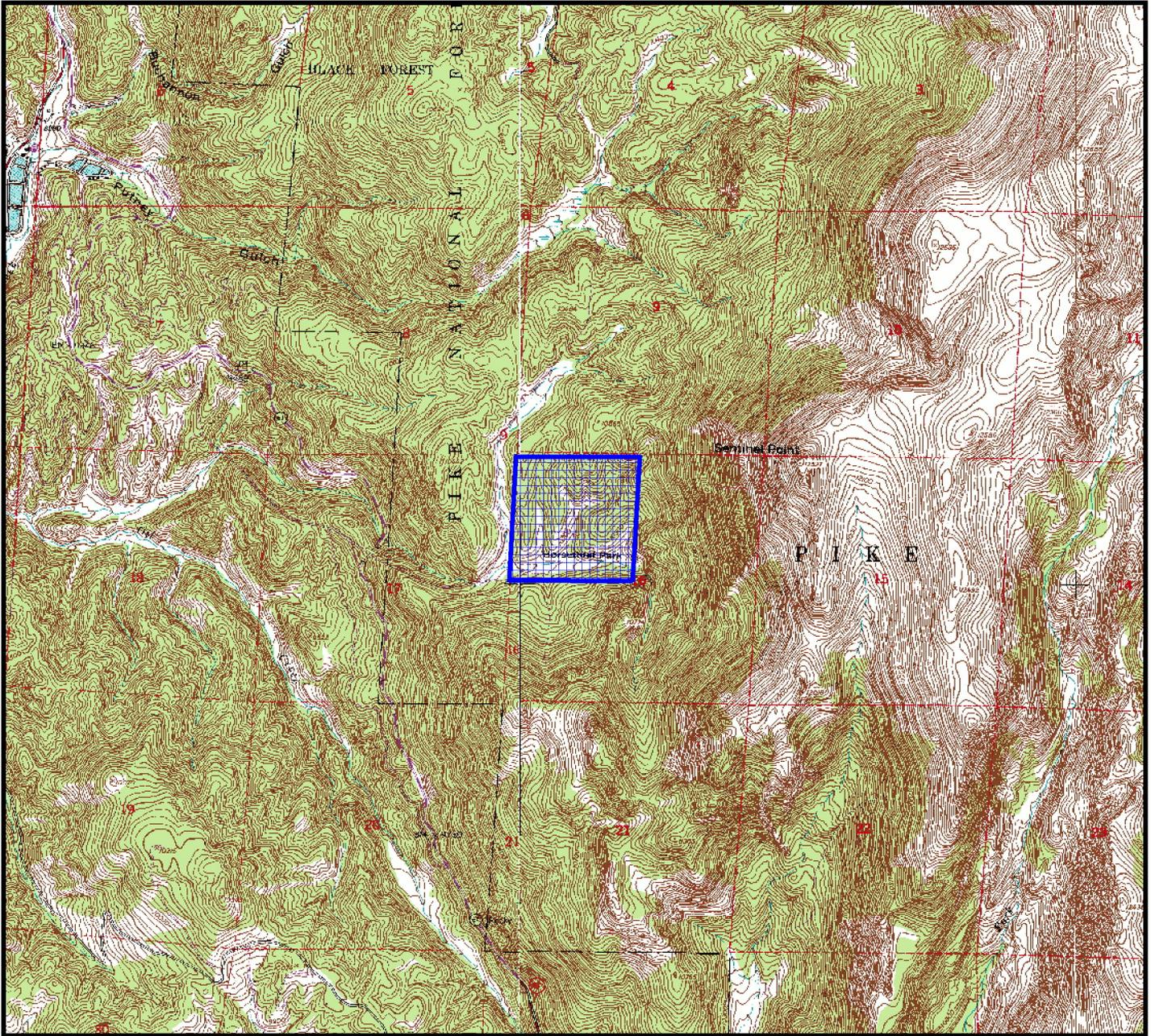
The Pikes Peak Granite in this region hosts uranium, fluorite, gem minerals including beryl and topaz, tungsten, rare earth mineral, and minor placer gold occurrences. It appears from the geological map that these occurrences are structurally controlled along north-south and east-west trending faults. No structures of this type occur on the tract.

INDUSTRIAL MINERALS AND CONSTRUCTION MATERIALS:

The Pikes Peak Granite can be used for coarse aggregate.

REFERENCES:

- Scott, G.R., Taylor, R.B., Epis, R.C., and Wobus, R.A., 1978, Geologic map of the Pueblo 1° X 2° quadrangle, south-central Colorado: U.S. Geological Survey Miscellaneous Investigation Series, I-1022, scale 1:250,000.
- Wobus, R.A., Epis, R.C., and Scott, 1976, Reconnaissance geologic map of the Cripple Creek-Pikes Peak area, Teller, Fremont, and El Paso Counties, Colorado: U.S. Geological Survey Miscellaneous Field Studies Map MF-805, scale 1:48,000.



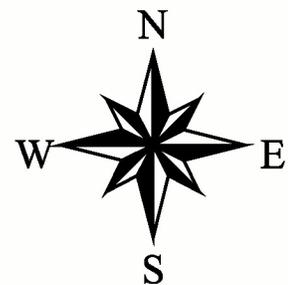
Topographic Map for Tract # 119-13

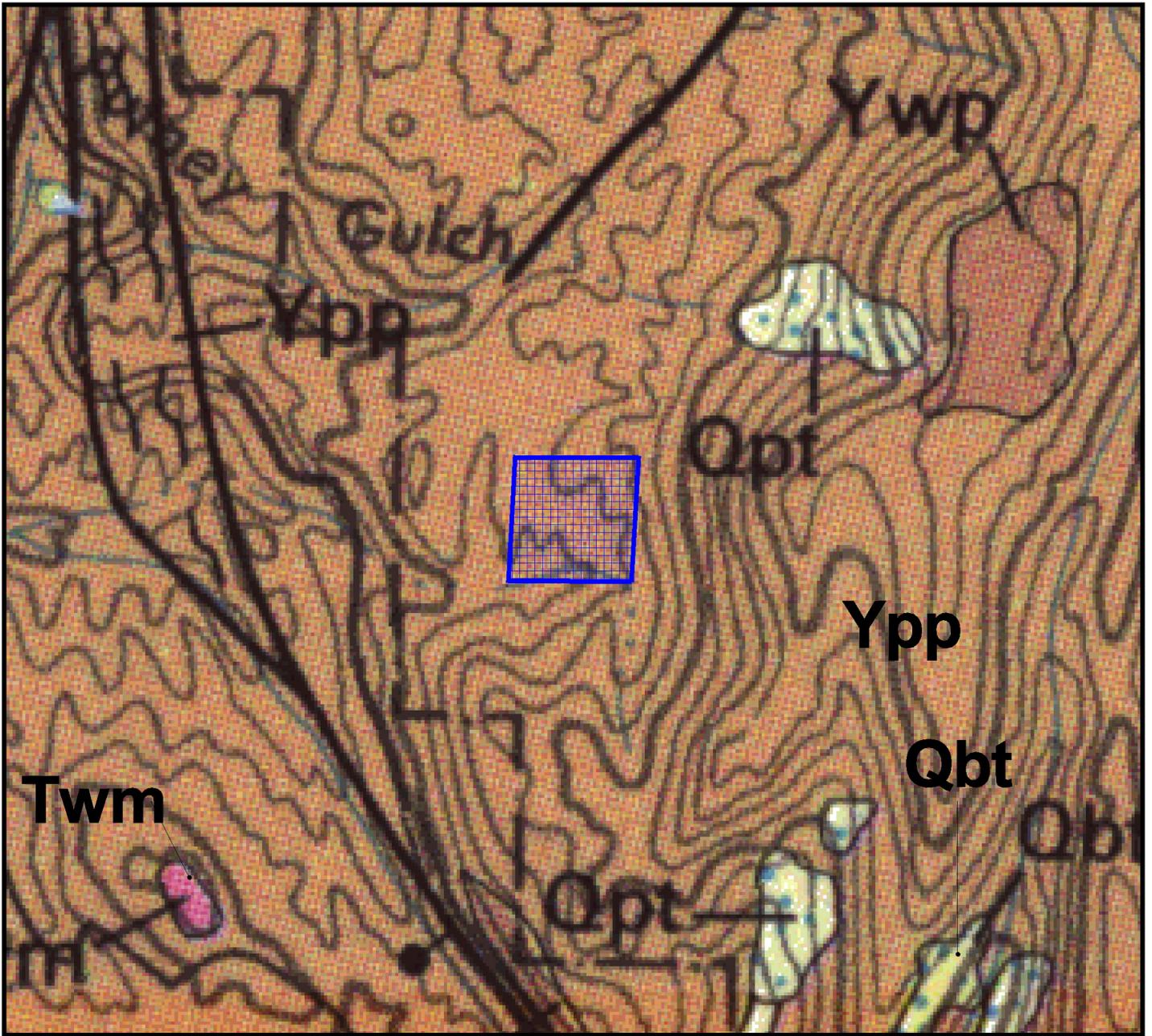
Location: T. 14 S, R. 69 W
Sections: 16
Approximate total acreage: 160

 *Mineral acreage evaluated*



1:32,000





Geologic Map for Tract # 119-13

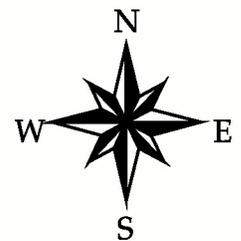
Location: T. 14 S, R. 69 W
 Sections: 16
 Approximate total acreage: 160

 *Mineral acreage evaluated*

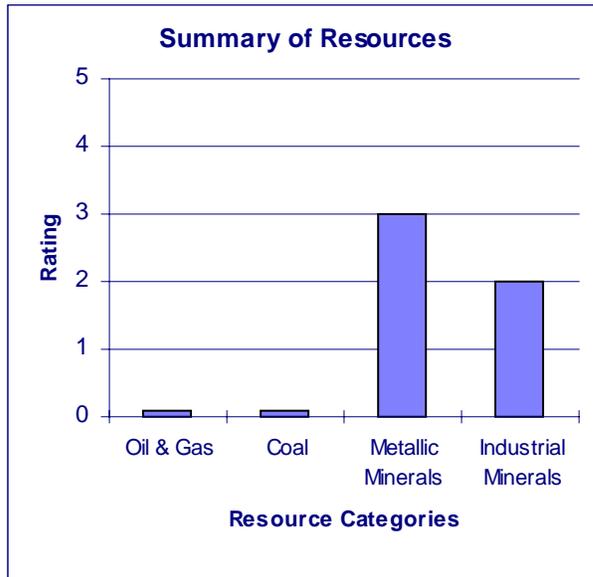
See report text for description of geologic units



1:32,000



STATE LANDBOARD MINERAL INVENTORY



TRACT IDENTIFIER : 119-14

COUNTY: Teller

LOCATION: The tract is located in an isolated area 18 miles south of Florissant on the High Park Road. The north west corner of the tract is about 800 feet southeast of the High Park road. Other access into the eastern part of the tract is available from the High Park Road via an unimproved road about a mile in length.

LEGAL DESCRIPTION:

T. 15 S, R. 71 W, SECTION 36

APPROXIMATE ACREAGE: 640

QUADRANGLE NAME(S): High Park

OVERVIEW OF GEOLOGY:

About half the tract is underlain by Cripple Creek Quartz Monzonite. The remainder is underlain by volcanic rocks of Tertiary age.

(Ycc) Cripple Creek Quartz Monzonite: Pink to reddish, medium-grained muscovite-biotite quartz monzonite.

(Tep) Echo Park Alluvium: Reddish-brown, poorly sorted, partly consolidated arkosic gravel ranging from clay to boulders. Clasts are of Proterozoic rocks in a matrix of micaceous sand, silt, and clay.

(Twm) Wall Mountain Tuff: Biotite-plagioclase-sanidine rhyolite ash flow tuff.
(Ttc) Tallahassee Creek Conglomerate: Grayish-pink, poorly sorted, crudely stratified pebble and boulder conglomerate with tuffaceous and arkosic sandy matrix. Clasts are mainly red, purple, and gray intermediate volcanic rocks, light green quartzite, Wall Mountain Tuff, and Proterozoic rocks.

OIL AND GAS RESOURCES:

This tract has no potential for oil and/or natural gas production.

COAL RESOURCES:

No known coal bearing rocks are present on the tract.

METALLIC MINERAL RESOURCES:

The MRDS database describes a uranium occurrence in the NE ¼ NE¼ of the section 36 as the School Section Claim. The occurrence is uraninite and coffinite in arkosic sandstone of the Tallahassee Creek Conglomerate. No production or grade information is recorded.

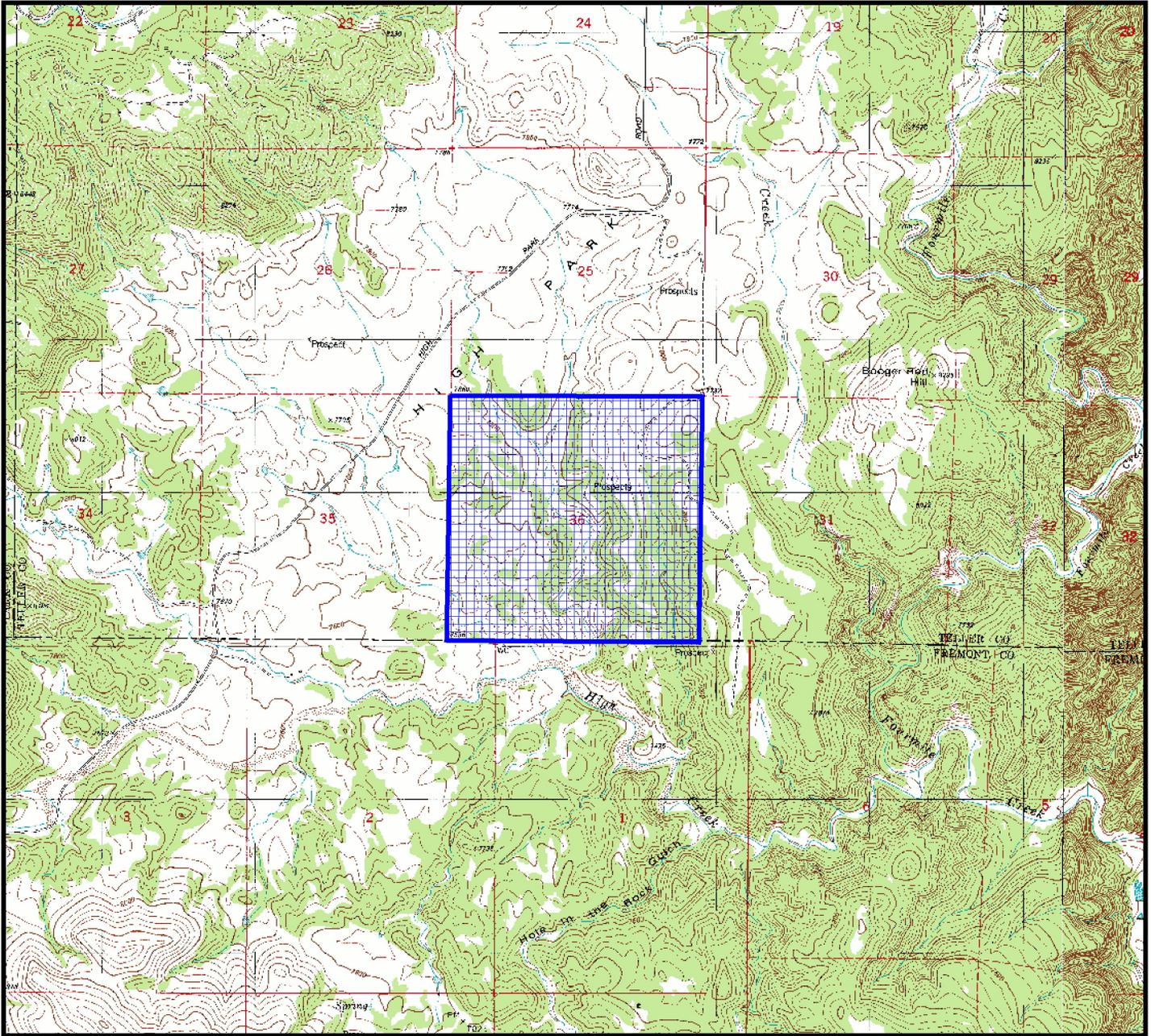
The Tallahassee Creek Conglomerate and the Echo Park Alluvium contain significant stratiform uranium mineralization just about 10 miles south in the Tallahassee Creek district in Fremont County. The Tallahassee Creek district contains two main deposits totaling 13 million kilograms of U₃O₈. The average grade of the deposits is 0.08% U₃O₈ (Dickinson, 1981). In the Tallahassee Creek district, uraninite, coffinite, and meta-autinite are found in an ash fall (bentonite) layer in the Tallahassee Creek Conglomerate and in the sandstones, mudstones, and conglomerates of the Echo Park Alluvium. The mineralization in the Echo Park Alluvium has the characteristics of a “roll front” type uranium deposit (Dickinson, 1981).

INDUSTRIAL MINERALS AND CONSTRUCTION MATERIALS:

The quality of the Tallahassee Creek Conglomerate and the Echo Park Alluvium for construction material purposes is not known; however, the lithological description of the conglomerate beds indicate that they may be useful for construction material purposes. The Cripple Creek Quartz Monzonite can be used for coarse aggregate.

REFERENCES:

- Dickinson, K.A., 1981, Geological controls of uranium mineralization in the Tallahassee Creek Uranium District, Fremont County, Colorado: *The Mountain Geologist*, v. 18, no. 4, p. 88-95.
- Scott, G.R., Taylor, R.B., Epis, R.C., and Wobus, R.A., 1978, Geologic map of the Pueblo 1° X 2° quadrangle, south-central Colorado: U.S. Geological Survey Miscellaneous Investigation Series, I-1022, scale 1:250,000.
- Wobus, R.A., Epis, R.C., and Scott, 1979, Geologic map of the Cover Mountain quadrangle, Fremont, Park, and Teller Counties, Colorado: U.S. Geological Survey Miscellaneous Investigation Series Map I-1179, scale 1:62,500.



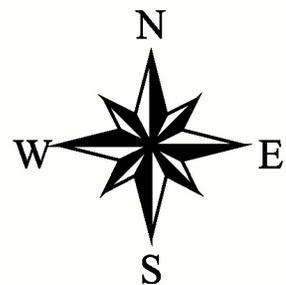
Topographic Map for Tract # 119-14

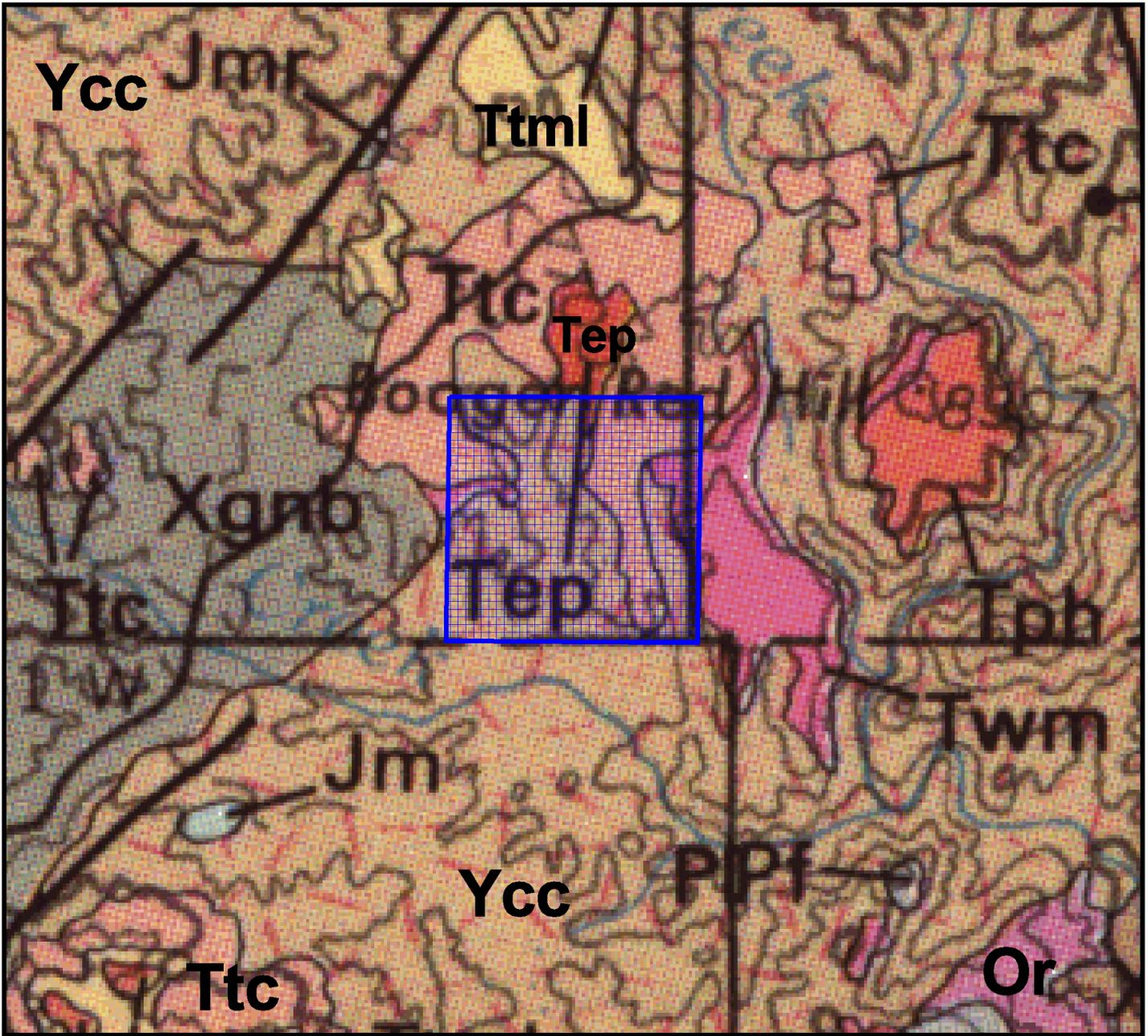
Location: T. 15 S, R. 71 W
Sections: 36
Approximate total acreage: 640

 Mineral acreage evaluated



1:32,000





Geologic Map for Tract # 119-14

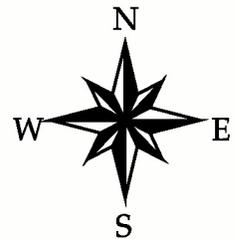
Location: T. 15 S, R. 71 W
 Sections: 36
 Approximate total acreage: 640

 Mineral acreage evaluated

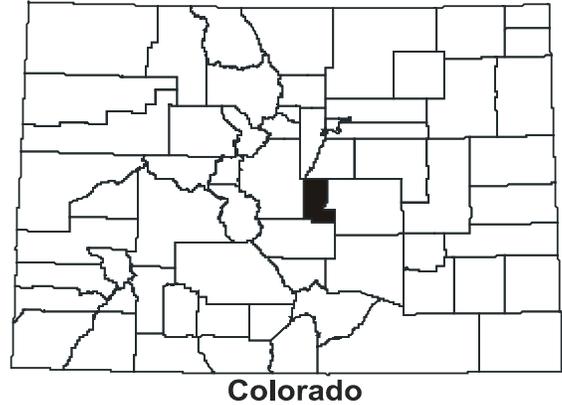
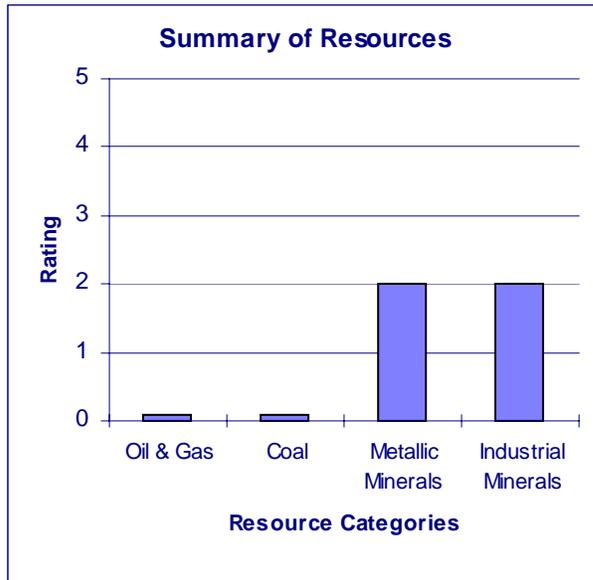
See report text for description of geologic units



1:32,000



STATE LANDBOARD MINERAL INVENTORY



TRACT IDENTIFIER: 119-15

COUNTY: Teller

LOCATION: The tract is located about two miles west of the city of Cripple Creek. The northeast corner of the tract is about 1,000 feet west of the improved road to Mount Pisgah. There are no roads on the tract.

LEGAL DESCRIPTION:

T. 15 S, R. 70 W, SECTION 16

APPROXIMATE ACREAGE: 640

QUADRANGLE NAME(S): Cripple Creek North, Cripple Creek South

OVERVIEW OF GEOLOGY:

About three-fourths of the tract is underlain by Cripple Creek Quartz Monzonite and migmatitic gneiss. The remainder is underlain by volcanic rocks of the Cripple Creek alkalic diatreme complex of Tertiary age.

(Xgn) Migmatitic gneiss: Layered feldspathic, biotite-quartz-plagioclase gneiss, locally containing garnet, hornblende, and sillimanite phases.

(Ycc) Cripple Creek Quartz Monzonite: Pink to reddish, medium-grained muscovite-biotite quartz monzonite.

(Tph) Phonolite: Medium gray, intrusive-extrusive rock of the Cripple Creek alkalic diatreme complex; exposed as necks, domes, and flows. Generally aphanitic, but locally

porphyritic. Alkali feldspar is the only large phenocryst; other minerals are sodalite, analcite, aegirine, and aegirine–augite.

OIL AND GAS RESOURCES:

This tract has no potential for oil and/or natural gas production.

COAL RESOURCES:

No known coal bearing rocks are present on the tract.

METALLIC MINERAL RESOURCES:

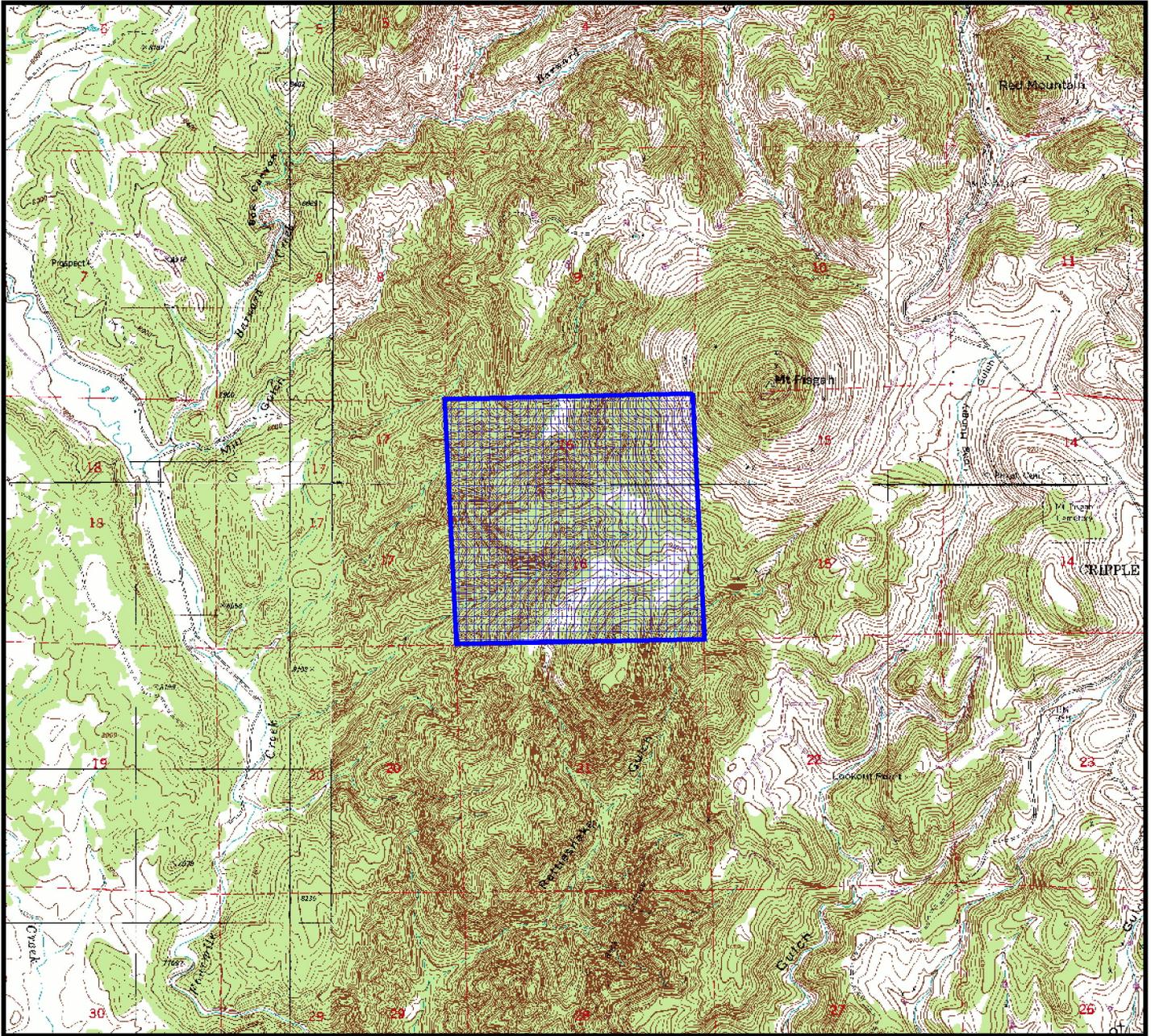
The phonolite is genetically and lithologically related to the main volcanic phonolite breccia of the Cripple Creek district. The Cripple Creek district has produced about 24 million ounces of gold from both high-grade vein and low grade disseminated deposits, primarily in the phonolite and phonolite breccia.

INDUSTRIAL MINERALS AND CONSTRUCTION MATERIALS:

The Cripple Creek Quartz Monzonite can be used for coarse aggregate.

REFERENCES:

- Scott, G.R., Taylor, R.B., Epis, R.C., and Wobus, R.A., 1978, Geologic map of the Pueblo 1° X 2° quadrangle, south-central Colorado: U.S. Geological Survey Miscellaneous Investigation Series, I-1022, scale 1:250,000.
- Wobus, R.A., Epis, R.C., and Scott, 1976, Reconnaissance geologic map of the Cripple Creek–Pikes Peak area, Teller, Fremont, and El Paso Counties, Colorado: U.S. Geological Survey Miscellaneous Field Studies Map MF-805, scale 1:48,000.



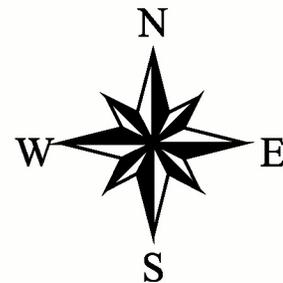
Topographic Map for Tract # 119-15

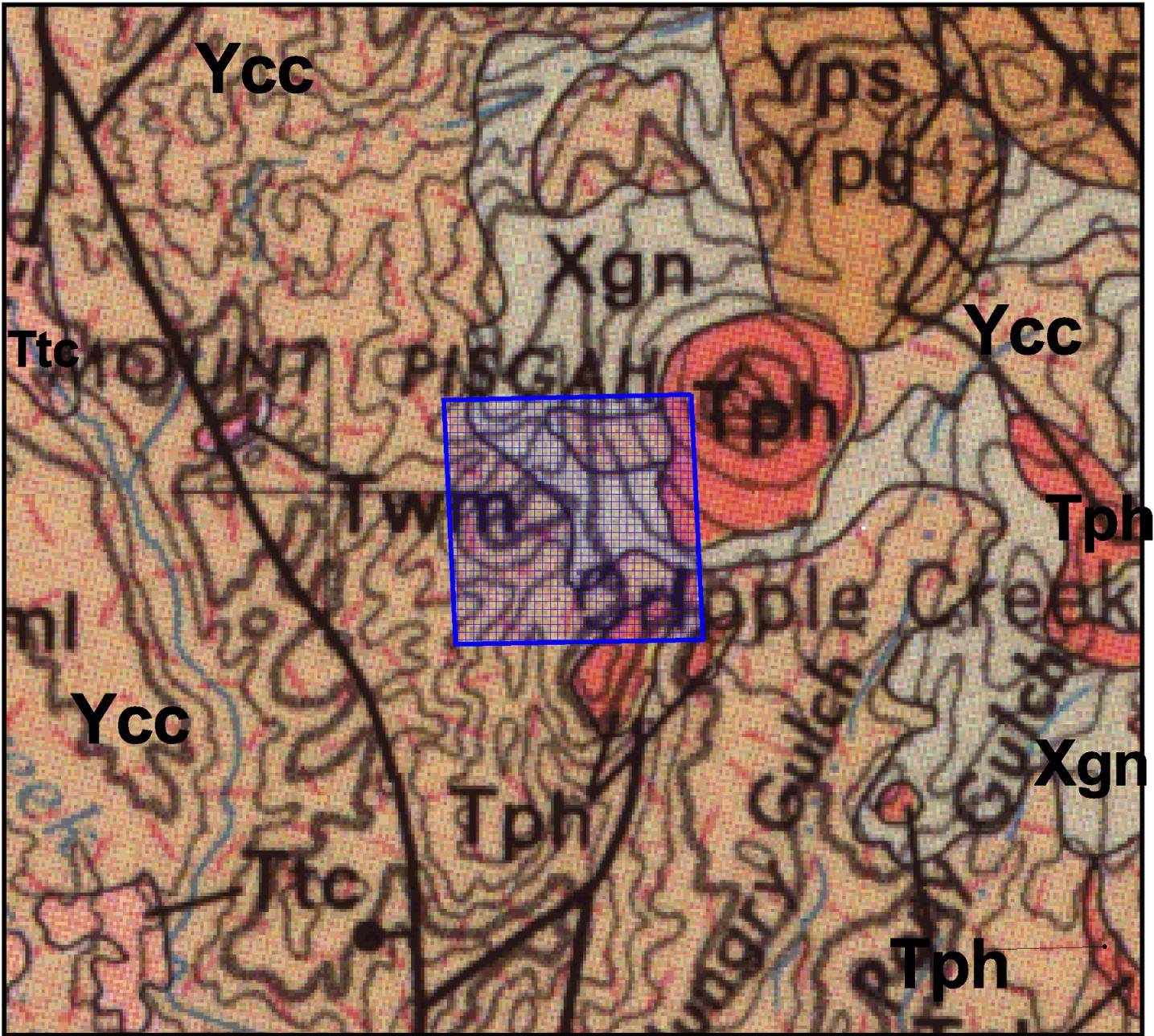
Location: T. 15 S, R. 70 W
 Sections: 16
 Approximate total acreage: 640

 Mineral acreage evaluated



1:32,000





Geologic Map for Tract # 119-15

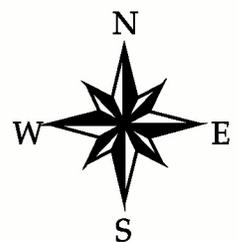
Location: T. 15 S, R. 70 W
 Sections: 16
 Approximate total acreage: 640

 Mineral acreage evaluated

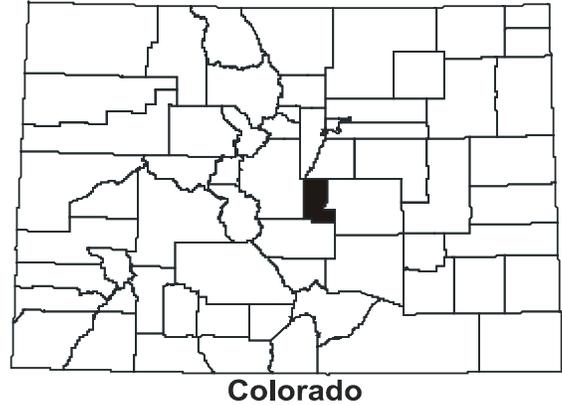
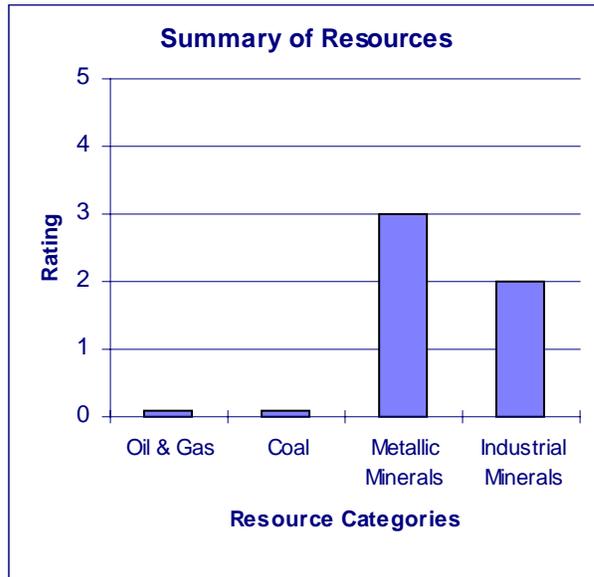
See report text for description of geologic units



1:32,000



STATE LANDBOARD MINERAL INVENTORY



TRACT IDENTIFIER : 119-16

COUNTY: Teller

LOCATION: The tract is located about one mile west of the city of Victor. Unimproved roads from Victor go through the northern and eastern parts of the tract.

LEGAL DESCRIPTION:

T. 15 S, R. 70 W, SECTION 36

APPROXIMATE ACREAGE: 640

QUADRANGLE NAME(S): Cripple Creek South

OVERVIEW OF GEOLOGY:

About half the tract is underlain by Proterozoic granodiorite. The remainder is underlain by volcanic rocks of the Cripple Creek alkalic diatreme complex and other volcanic units of Tertiary age.

(Xgd) Granodiorite: Pinkish-gray, massive to foliated, medium- to coarse-grained hornblende or biotite granodiorite; locally an augen gneiss.

(Twm) Wall Mountain Tuff: Biotite-plagioclase-sanidine rhyolite ash flow tuff.

(Ttc) Tallahassee Creek Conglomerate: Grayish-pink, poorly sorted, crudely stratified pebble and boulder conglomerate with tuffaceous and arkosic sandy matrix. Clasts are mainly red, purple, and gray intermediate volcanic rocks, light green quartzite, Wall Mountain Tuff, and Proterozoic rocks.

(Tph) Phonolite: Medium gray, intrusive-extrusive rock of the Cripple Creek alkalic diatreme complex; exposed as necks, domes, and flows. Generally aphanitic, but locally porphyritic. Alkali feldspar is the only large phenocryst; other minerals are sodalite, analcite, aegirine, and aegirine–augite.

OIL AND GAS RESOURCES:

This tract has no potential for oil and/or natural gas production.

COAL RESOURCES:

No known coal bearing rocks are present on the tract.

METALLIC MINERAL RESOURCES:

The topographic map shows two prospect pits in the Phonolite of Cripple Creek. The phonolite is genetically and lithologically related to the main volcanic phonolite breccia of the Cripple Creek district. The Cripple Creek district has produced about 24 million ounces of gold from both high-grade vein and low grade disseminated deposits, primarily in the phonolite and phonolite breccia.

The Tallahassee Creek Conglomerate contains significant stratiform uranium mineralization just about 10 miles south in the Tallahassee Creek district in Fremont County. The Tallahassee Creek district contains two main deposits totaling 13 million kilograms of U_3O_8 . The average grade of the deposits is 0.08% U_3O_8 (Dickinson, 1981). In the Tallahassee Creek district, uraninite, coffinite, and meta-autinite are found in an ash fall (bentonite) layer in the Tallahassee Creek Conglomerate and in the sandstones, mudstones and conglomerates of the Echo Park Alluvium.

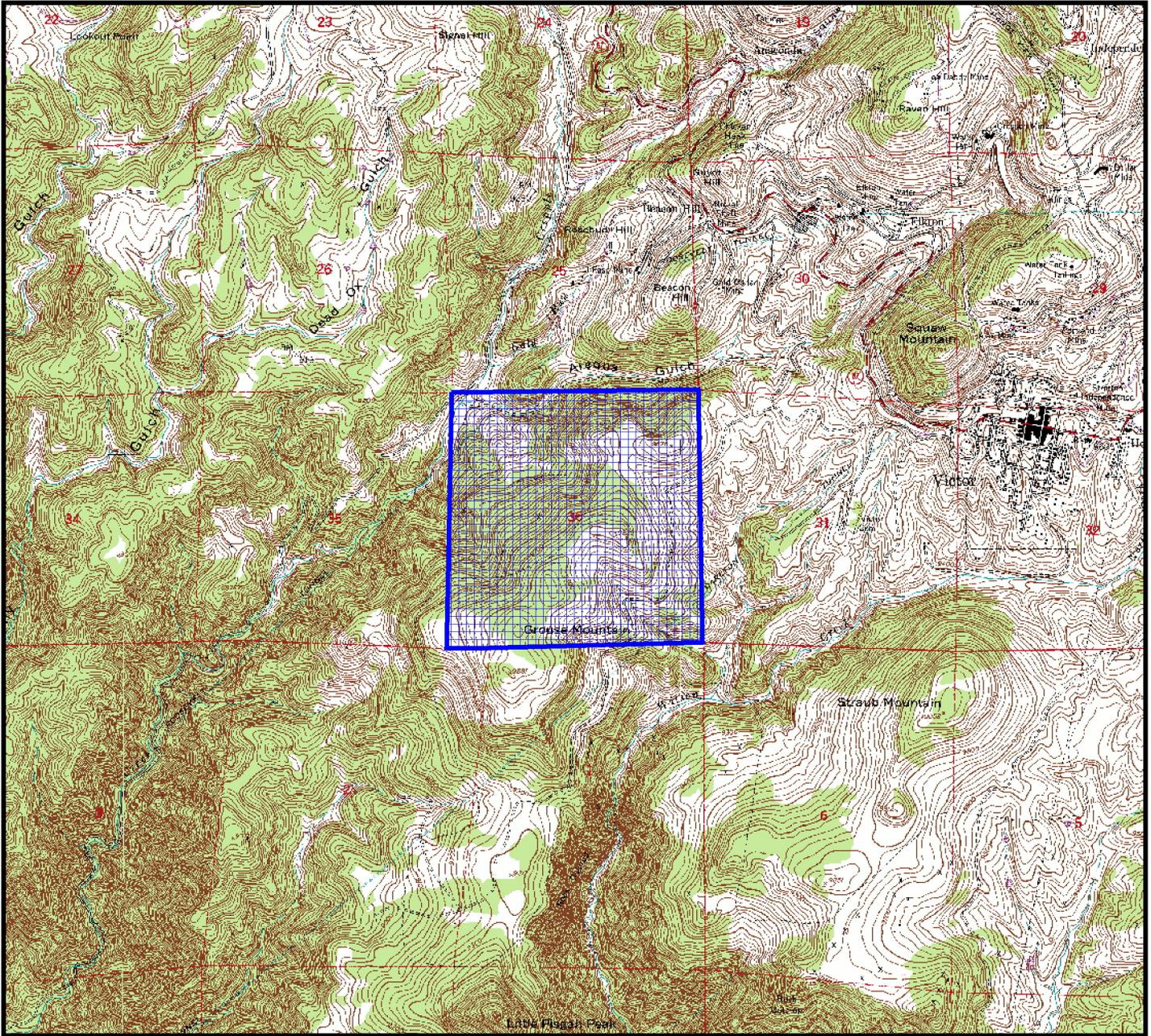
INDUSTRIAL MINERALS AND CONSTRUCTION MATERIALS:

The quality of the Tallahassee Creek Conglomerate for construction material purposes is not known; however, the lithological description of the conglomerate beds indicate that they may be useful for construction material purposes.

The granodiorite can be used for coarse aggregate.

REFERENCES:

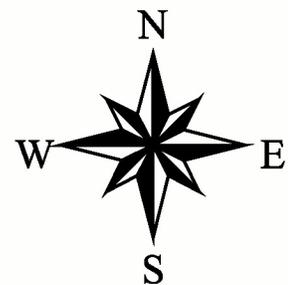
- Dickinson, K.A., 1981, Geological controls of uranium mineralization in the Tallahassee Creek Uranium District, Fremont County, Colorado: *The Mountain Geologist*, v. 18, no. 4, p. 88-95.
- Scott, G.R., Taylor, R.B., Epis, R.C., and Wobus, R.A., 1978, Geologic map of the Pueblo 1° X 2° quadrangle, south-central Colorado: U.S. Geological Survey Miscellaneous Investigation Series, I-1022, scale 1:250,000.
- Wobus, R.A., Epis, R.C., and Scott, 1976, Reconnaissance geologic map of the Cripple Creek–Pikes Peak area, Teller, Fremont, and El Paso Counties, Colorado: U.S. Geological Survey Miscellaneous Field Studies Map MF-805, scale 1:48,000.



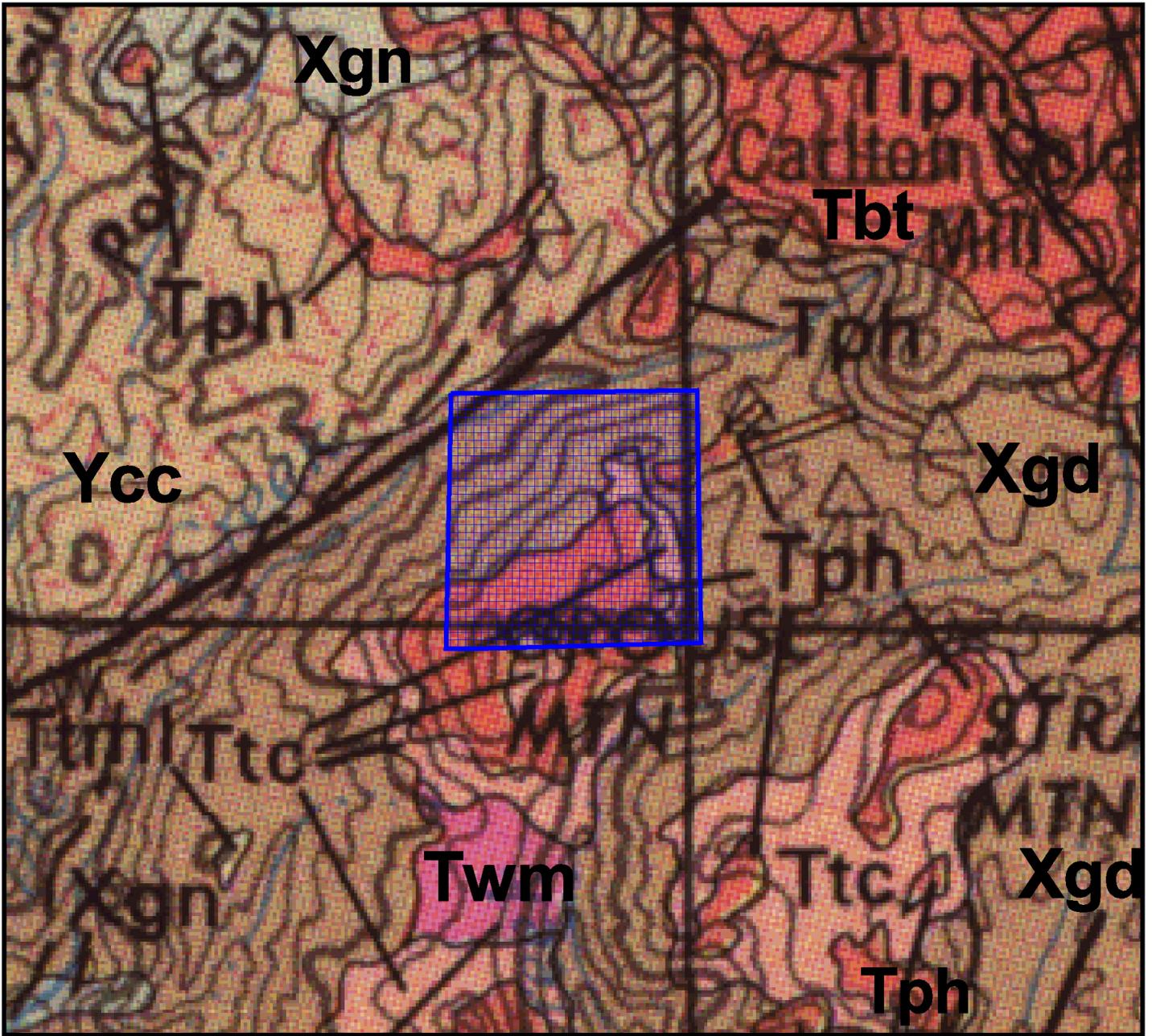
Topographic Map for Tract # 119-16

Location: T. 15 S, R. 70 W
Sections: 36
Approximate total acreage: 640

 *Mineral acreage evaluated*



1:32,000



Geologic Map for Tract # 119-16

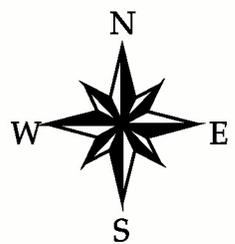
Location: T. 15 S, R. 70 W
 Sections: 36
 Approximate total acreage: 640

 Mineral acreage evaluated

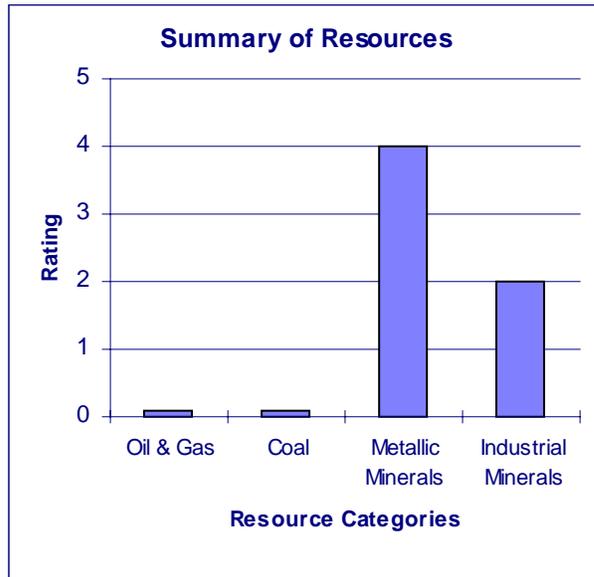
See report text for description of geologic units



1:32,000



STATE LANDBOARD MINERAL INVENTORY



TRACT IDENTIFIER : 119-17

COUNTY: Teller

LOCATION: The tract is located about two miles north of the city of Victor along the Gold Camp Road. There are improved and unimproved roads on the tract.

LEGAL DESCRIPTION:

T. 15 S, R. 69 W, SECTION 16

APPROXIMATE ACREAGE: 640

QUADRANGLE NAME(S): Pikes Peak, Big Bull Mountain, Cripple Creek North, Cripple Creek South

OVERVIEW OF GEOLOGY:

About half the tract is underlain by Proterozoic granodiorite. The remainder is underlain by volcanic rocks of the Cripple Creek alkalic diatreme complex and other volcanic units of Tertiary age.

(Xgd) Granodiorite: Pinkish-gray, massive to foliated, medium- to coarse-grained hornblende or biotite granodiorite; locally an augen gneiss.

(Ypp) Pikes Peak Granite: Pink to reddish, medium- to coarse-grained biotite or hornblende- biotite granite.

(Tph) Phonolite: Medium gray, intrusive-extrusive rock of the Cripple Creek alkalic diatreme complex; exposed as necks, domes, and flows. Generally aphanitic, but locally

porphyritic. Alkali feldspar is the only large phenocryst; other minerals are sodalite, analcite, aegirine, and aegirine–augite.

(Tbt) Breccia: Gray to red, generally bleached light gray, breccia composed of Cripple Creek phonolite and latite clasts and Proterozoic xenoliths. Texture ranges from silt-sized ash to blocks more than three feet in diameter. Nearly all the breccia is highly altered and pyritic.

OIL AND GAS RESOURCES:

This tract has no potential for oil and/or natural gas production.

COAL RESOURCES:

No known coal bearing rocks are present on the tract.

METALLIC MINERAL RESOURCES:

There are recorded metallic deposits on this tract. Loughlin and Koschmann (1935) describe the School Section Mine in the SW¹/₄, SW¹/₄ of the section as containing four principal northeast trending veins within a sequence of phonolite, trachydolerite, latite-phonolite, and basalt. According to information compiled by Henderson (1926) the School Section Mine produced 43,629 ounces of gold up to December 1921. Further production information is not readily available.

The MILS database lists two past producing mines in the tract, the Gold Band Mine and the Basalt Mine. The Gold Band Mine is described as occurring in this tract; however, there is no further readily available information describing the exact location of this mine. Loughlin and Koschmann (1935) describe the mine as occurring near the School Section Mine and along the same set of northeast trending veins in the Cripple Creek phonolite. They report a grade of 0.10 to 0.62 ounce per ton gold for the Gold Bank Mine.

There is no readily available information on the Basalt Mine.

The topographic map shows several other unnamed prospect pits in the Proterozoic granodiorite in the northern and eastern part of the tract. These prospect pits may be precious metal exploration pits.

The phonolite is part of the main volcanic phonolite breccia of the Cripple Creek district. The Cripple Creek district has produced about 24 million ounces of gold from both high-grade vein and low grade disseminated deposits, primarily in the phonolite and phonolite breccia.

The Pikes Peak Granite in this region hosts uranium, fluorite, gem minerals including beryl and topaz, tungsten, rare earth mineral, and minor placer gold occurrences. It appears from the geological map that these occurrences are structurally controlled along north-south and east–west trending faults. No structures of this type occur on the tract.

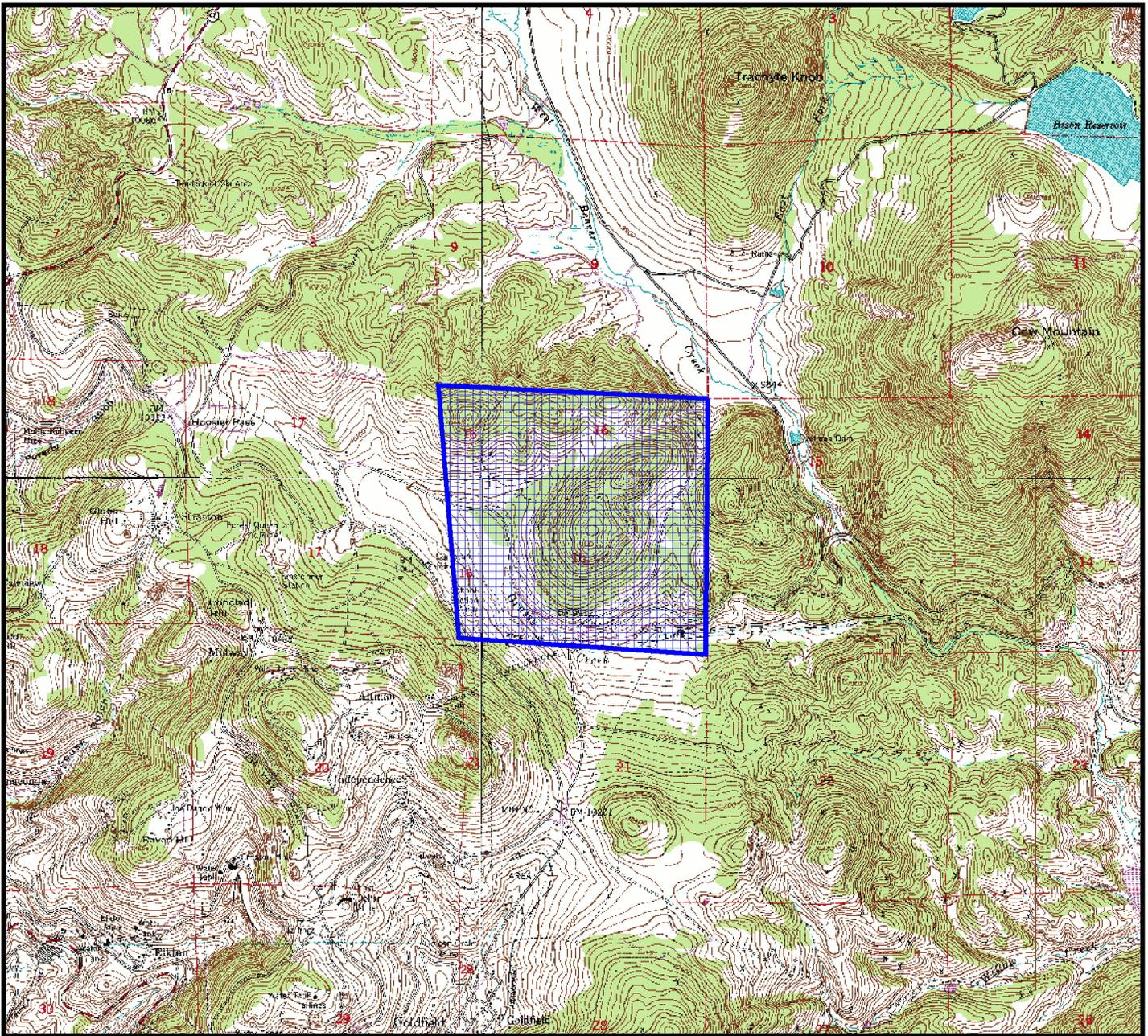
INDUSTRIAL MINERALS AND CONSTRUCTION MATERIALS:

The topographic map of the tract shows several prospect pits hosted by the granodiorite; these may be exploration pits for pegmatite deposits in the granodiorite.

The granodiorite and the Pikes Peak Granite can be used for coarse aggregate.

REFERENCES:

- Henderson, C.W., 1926, Mining in Colorado: a history of discovery, development, and production: U.S. Geological Survey Professional Paper 138, 263 p.
- Loughlin, G.F., and Koschmann, A.H., 1935, Geology and ore deposits of the Cripple Creek district, Colorado: Colorado Scientific Society Proceedings, v. 13, no. 6, pp. 219-435.
- Scott, G.R., Taylor, R.B., Epis, R.C., and Wobus, R.A., 1978, Geologic map of the Pueblo 1° X 2° quadrangle, south-central Colorado: U.S. Geological Survey Miscellaneous Investigation Series, I-1022, scale 1:250,000.
- Wobus, R.A., Epis, R.C., and Scott, 1976, Reconnaissance geologic map of the Cripple Creek–Pikes Peak area, Teller, Fremont, and El Paso Counties, Colorado: U.S. Geological Survey Miscellaneous Field Studies Map MF-805, scale 1:48,000.



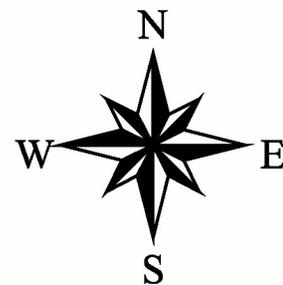
Topographic Map for Tract # 119-17

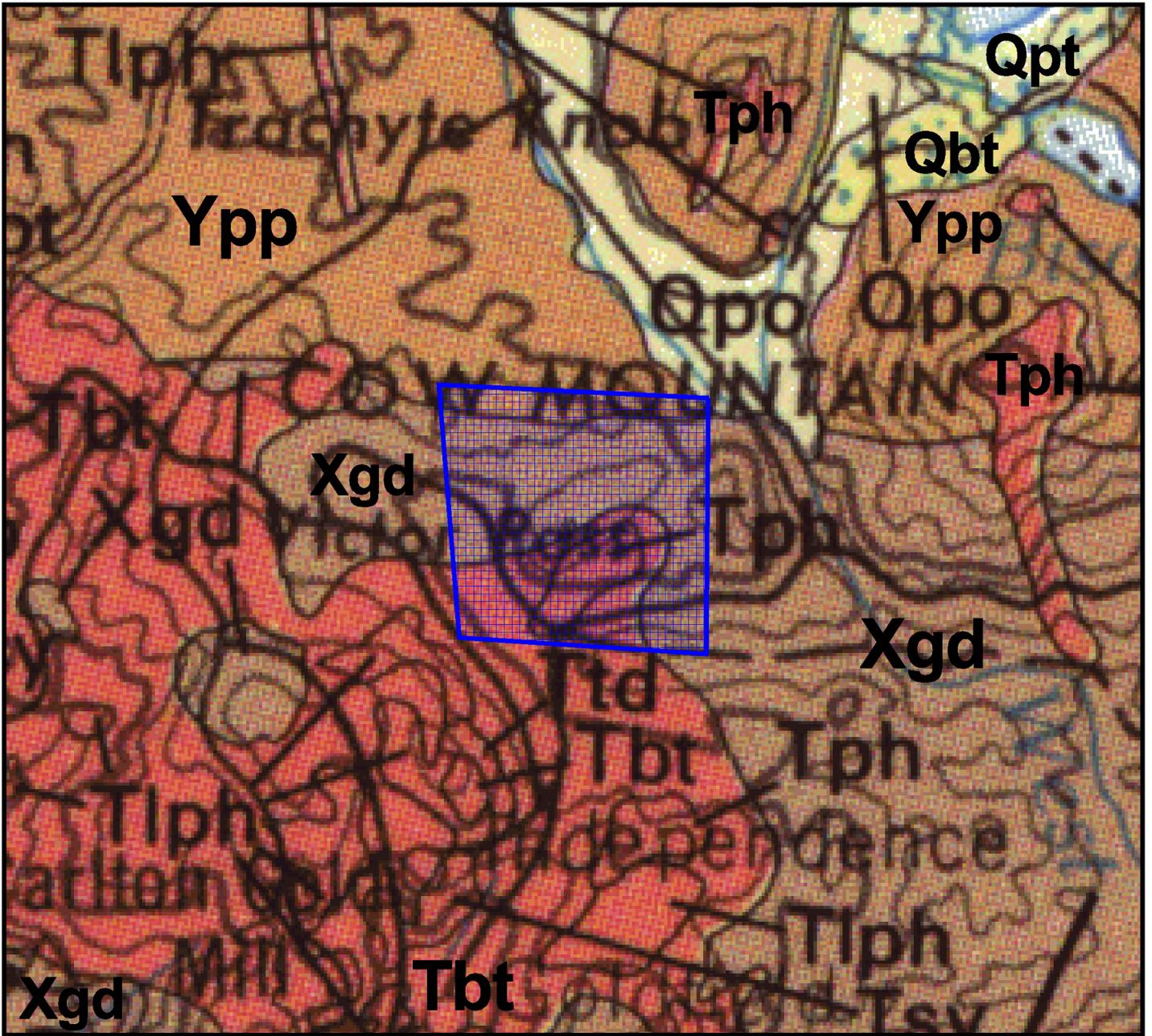
Location: T. 15 S, R. 69 W
 Sections: 16
 Approximate total acreage: 640

 Mineral acreage evaluated



1:32,000





Geologic Map for Tract # 119-17

Location: T. 15 S, R. 69 W
 Sections: 16
 Approximate total acreage: 640

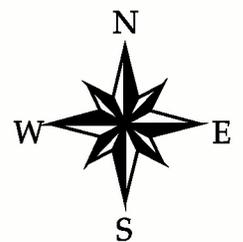
 Mineral acreage evaluated

See report text for description of geologic units

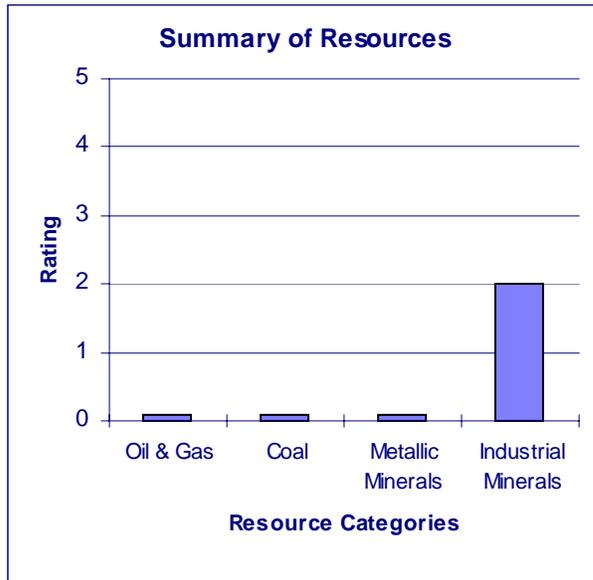
0 1 2 Miles



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STATE LANDBOARD MINERAL INVENTORY



TRACT IDENTIFIER: 119-18

COUNTY: Teller

LOCATION: The tract is located about 3.5 miles east of the city of Victor. Access to near the northeastern corner of the tract is provided by unimproved roads from the improved Gold Camp Road. There are no improved or unimproved roads on the tract.

LEGAL DESCRIPTION:

T. 15 S, R. 69 W, SECTION 36

APPROXIMATE ACREAGE: 640

QUADRANGLE NAME(S): Big Bull Mountain

OVERVIEW OF GEOLOGY:

The entire tract is underlain by Proterozoic granodiorite.

(Xgd) Granodiorite: Pinkish-gray, massive to foliated, medium- to coarse-grained hornblende or biotite granodiorite; locally an augen gneiss.

OIL AND GAS RESOURCES:

This tract has no potential for oil and/or natural gas production.

COAL RESOURCES:

No known coal bearing rocks are present on the tract.

METALLIC MINERAL RESOURCES:

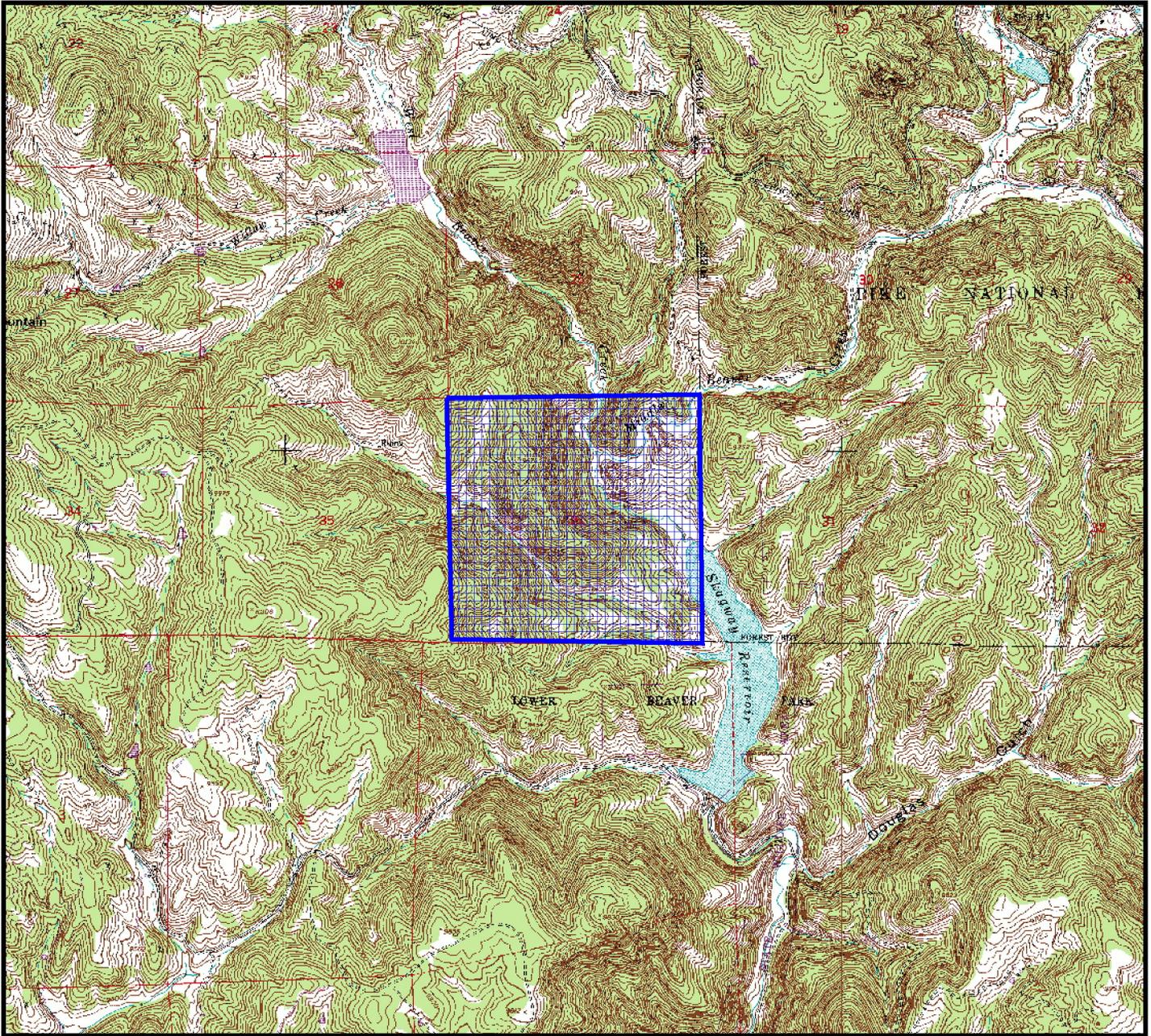
There are no recorded metallic deposits on this tract.

INDUSTRIAL MINERALS AND CONSTRUCTION MATERIALS:

The granodiorite can be used for coarse aggregate.

REFERENCES:

- Scott, G.R., Taylor, R.B., Epis, R.C., and Wobus, R.A., 1978, Geologic map of the Pueblo 1° X 2° quadrangle, south-central Colorado: U.S. Geological Survey Miscellaneous Investigation Series, I-1022, scale 1:250,000.
- Wobus, R.A., Epis, R.C., and Scott, 1976, Reconnaissance geologic map of the Cripple Creek–Pikes Peak area, Teller, Fremont, and El Paso Counties, Colorado: U.S. Geological Survey Miscellaneous Field Studies Map MF-805, scale 1:48,000.



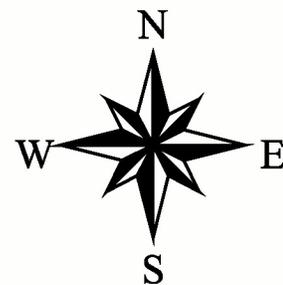
Topographic Map for Tract # 119-18

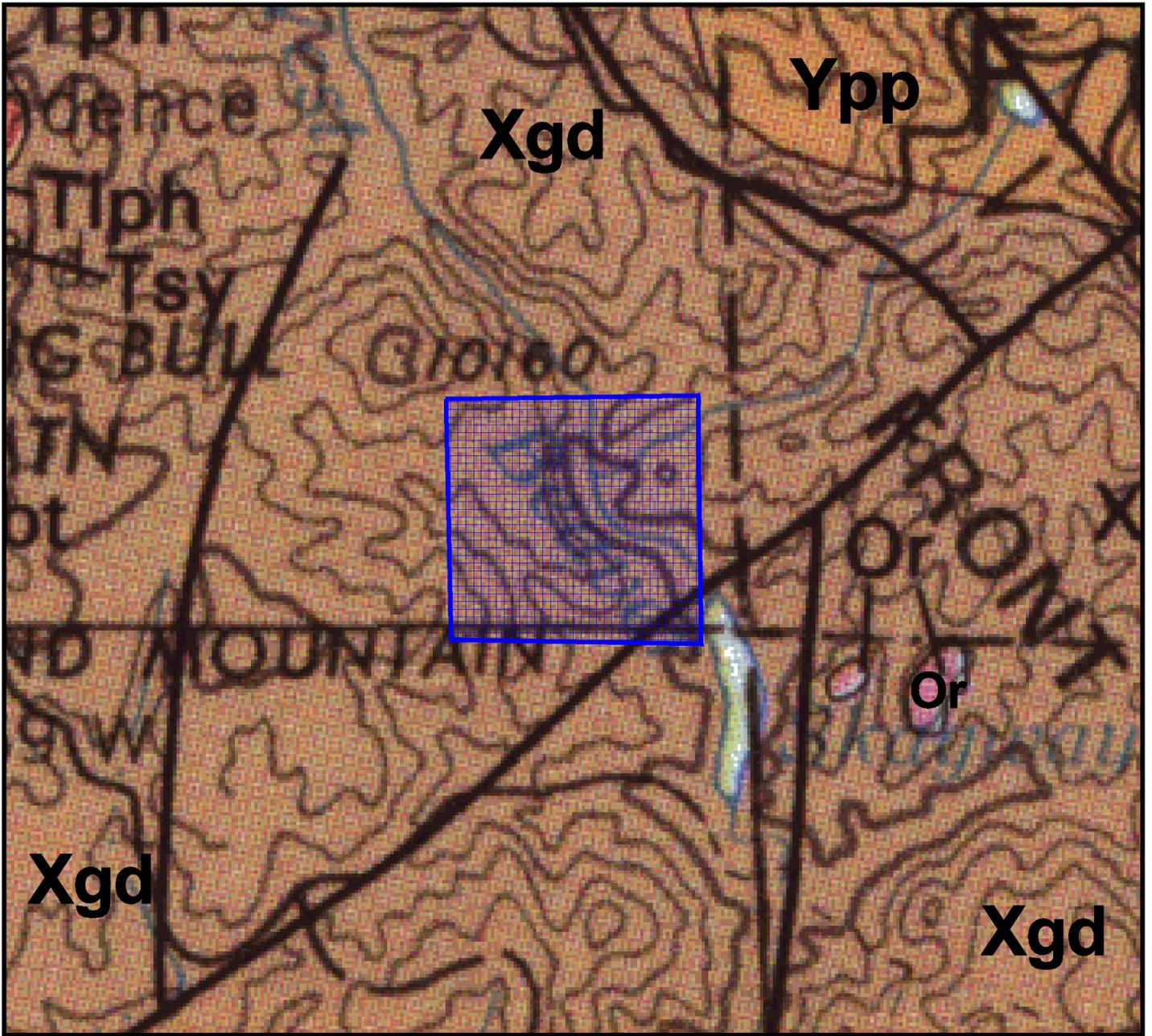
Location: T. 15 S, R. 69 W
Sections: 36
Approximate total acreage: 640

 *Mineral acreage evaluated*



1:32,000





Geologic Map for Tract # 119-18

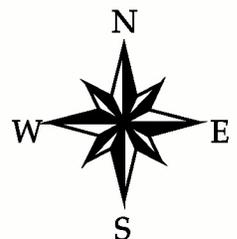
Location: T. 15 S, R. 69 W
 Sections: 36
 Approximate total acreage: 640

 Mineral acreage evaluated

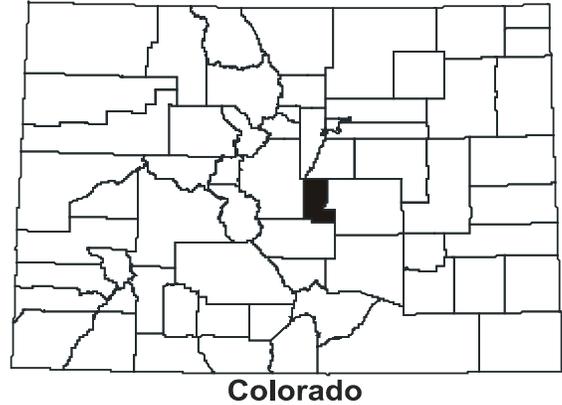
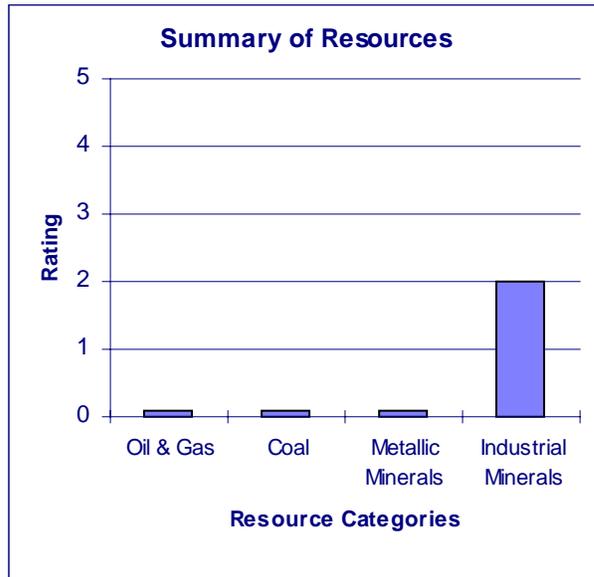
See report text for description of geologic units



1:32,000



STATE LANDBOARD MINERAL INVENTORY



TRACT IDENTIFIER : 119-19

COUNTY: Teller

LOCATION: The tract is located about 5.5 miles south of the city of Cripple Creek along the Cripple Creek-Marigold improved road. Unimproved roads from the village of Marigold provide access to the northeastern corner of the tract.

LEGAL DESCRIPTION:

T. 16 S, R. 70 W, SECTION 16

APPROXIMATE ACREAGE: 640

QUADRANGLE NAME(S): Cripple Creek South

OVERVIEW OF GEOLOGY:

Part of the tract is Proterozoic granodiorite, which is overlain by Paleozoic sedimentary rocks.

(Xgd) Granodiorite: Pinkish-gray, massive to foliated, medium- to coarse-grained hornblende or biotite granodiorite; locally an augen gneiss.

(Or) Ordovician rocks:

Fremont Limestone: Gray to yellowish-gray dolomitic limestone, cherty in lower part.

Harding Sandstone: White, yellow, and green quartz sandstone; red shale; quartz- or chert-pebble conglomerate at base.

Manitou Dolomite: Upper part of light gray to red dolomitic limestone, middle part of pink cherty dolomite, and a lower part of red dolomite with a basal quartz cobble conglomerate.

(PPf) Fountain Formation: Grayish red, reddish-brown, moderate red and gray coarse-grained arkosic sandstone with lenses of siltstone and fine-grained sandstone, locally conglomeratic and cross-bedded.

OIL AND GAS RESOURCES:

This tract has no potential for oil and/or natural gas production.

COAL RESOURCES:

No known coal bearing rocks are present on the tract.

METALLIC MINERAL RESOURCES:

There are no recorded metallic deposits on this tract.

INDUSTRIAL MINERALS AND CONSTRUCTION MATERIALS:

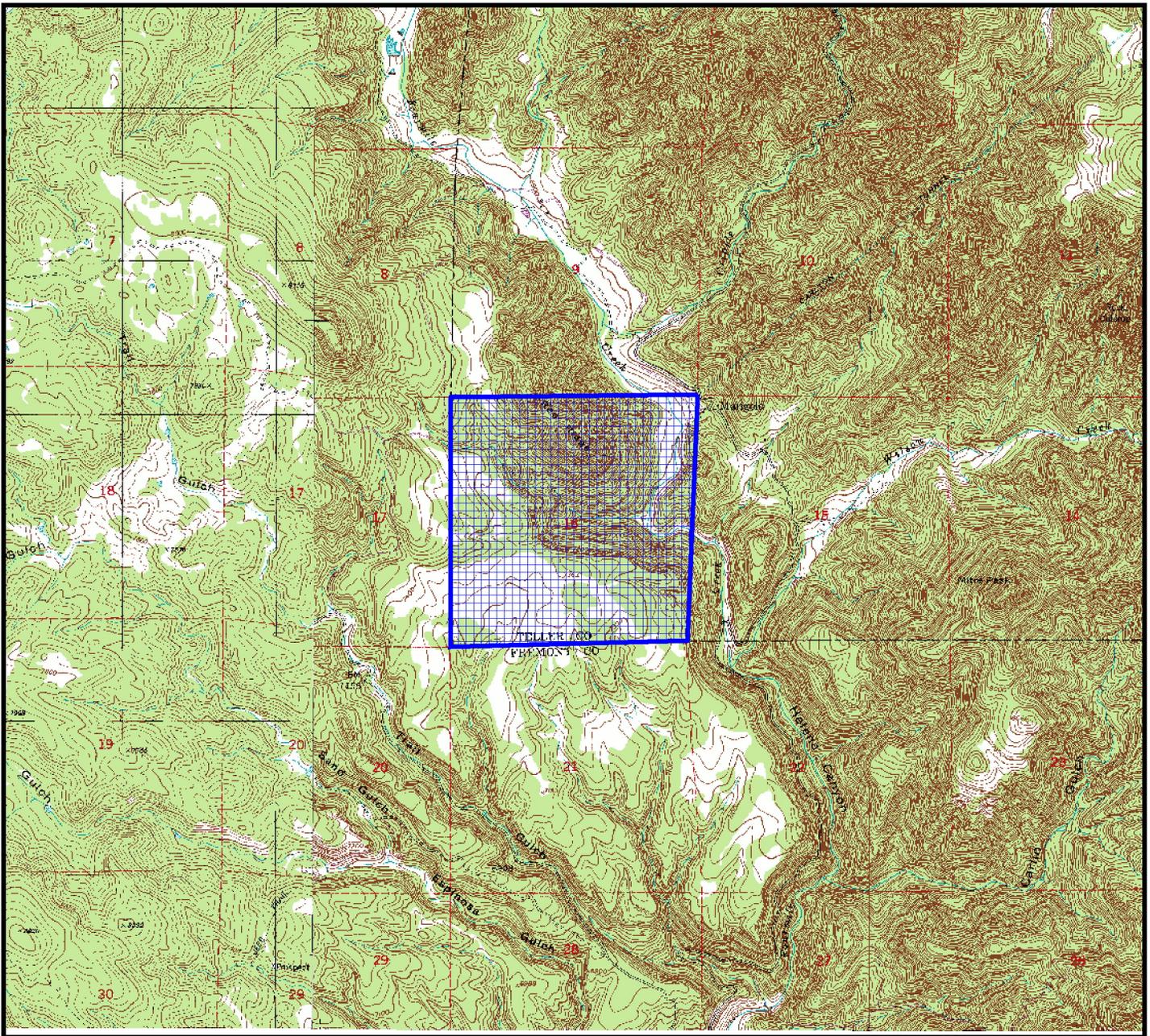
The Ordovician rocks contain formations composed of dolomite, dolomitic limestone, and quartz sandstone. These rock units have potential use as industrial minerals and construction materials.

The granodiorite can be used as coarse aggregate.

REFERENCES:

Scott, G.R., Taylor, R.B., Epis, R.C., and Wobus, R.A., 1978, Geologic map of the Pueblo 1° X 2° quadrangle, south-central Colorado: U.S. Geological Survey Miscellaneous Investigation Series, I-1022, scale 1:250,000.

Wobus, R.A., Epis, R.C., and Scott, 1976, Reconnaissance geologic map of the Cripple Creek–Pikes Peak area, Teller, Fremont, and El Paso Counties, Colorado: U.S. Geological Survey Miscellaneous Field Studies Map MF-805, scale 1:48,000.



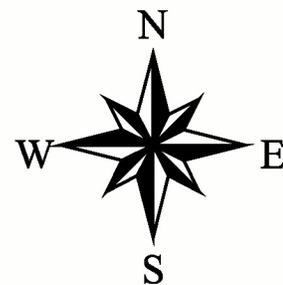
Topographic Map for Tract # 119-19

Location: T. 16 S, R. 70 W
 Sections: 16
 Approximate total acreage: 640

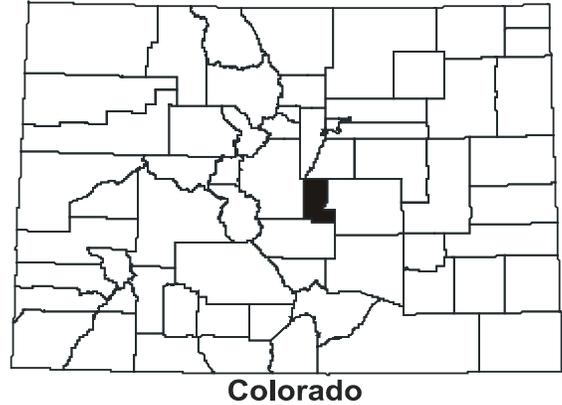
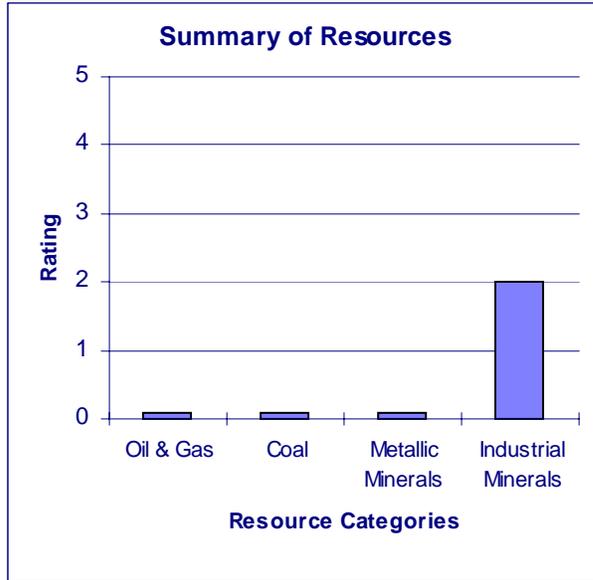
 Mineral acreage evaluated



1:32,000



STATE LANDBOARD MINERAL INVENTORY



TRACT IDENTIFIER: 119-20

COUNTY: Teller

LOCATION: The tract is located about 3.5 miles south of the city of Victor along the improved Phantom Canyon Road to Florence. There are other unimproved roads in the tract.

LEGAL DESCRIPTION:

T. 16 S, R. 69 W, SECTION 16

APPROXIMATE ACREAGE: 640

QUADRANGLE NAME(S): Big Bull Mountain

OVERVIEW OF GEOLOGY:

The entire tract is underlain by Proterozoic granodiorite.

(Xgd) Granodiorite: Pinkish-gray, massive to foliated, medium- to coarse-grained hornblende or biotite granodiorite; locally an augen gneiss.

OIL AND GAS RESOURCES:

This tract has no potential for oil and/or natural gas production.

COAL RESOURCES:

No known coal bearing rocks are present on the tract.

METALLIC MINERAL RESOURCES:

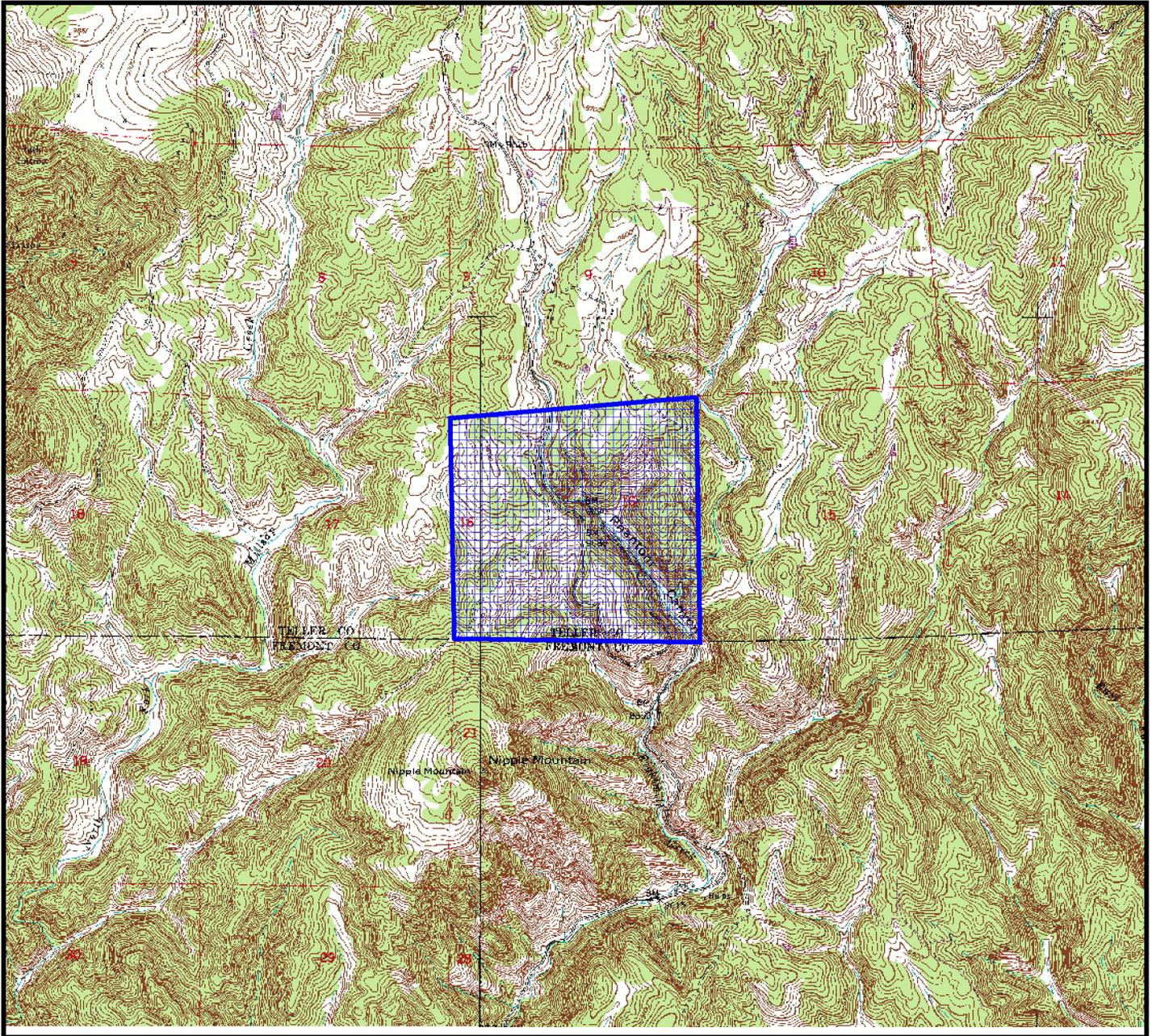
There are no recorded metallic deposits on this tract.

INDUSTRIAL MINERALS AND CONSTRUCTION MATERIALS:

The granodiorite can be used for coarse aggregate.

REFERENCES:

- Scott, G.R., Taylor, R.B., Epis, R.C., and Wobus, R.A., 1978, Geologic map of the Pueblo 1° X 2° quadrangle, south-central Colorado: U.S. Geological Survey Miscellaneous Investigation Series, I-1022, scale 1:250,000.
- Wobus, R.A., Epis, R.C., and Scott, 1976, Reconnaissance geologic map of the Cripple Creek–Pikes Peak area, Teller, Fremont, and El Paso Counties, Colorado: U.S. Geological Survey Miscellaneous Field Studies Map MF-805, scale 1:48,000.



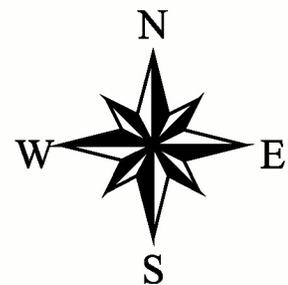
Topographic Map for Tract # 119-20

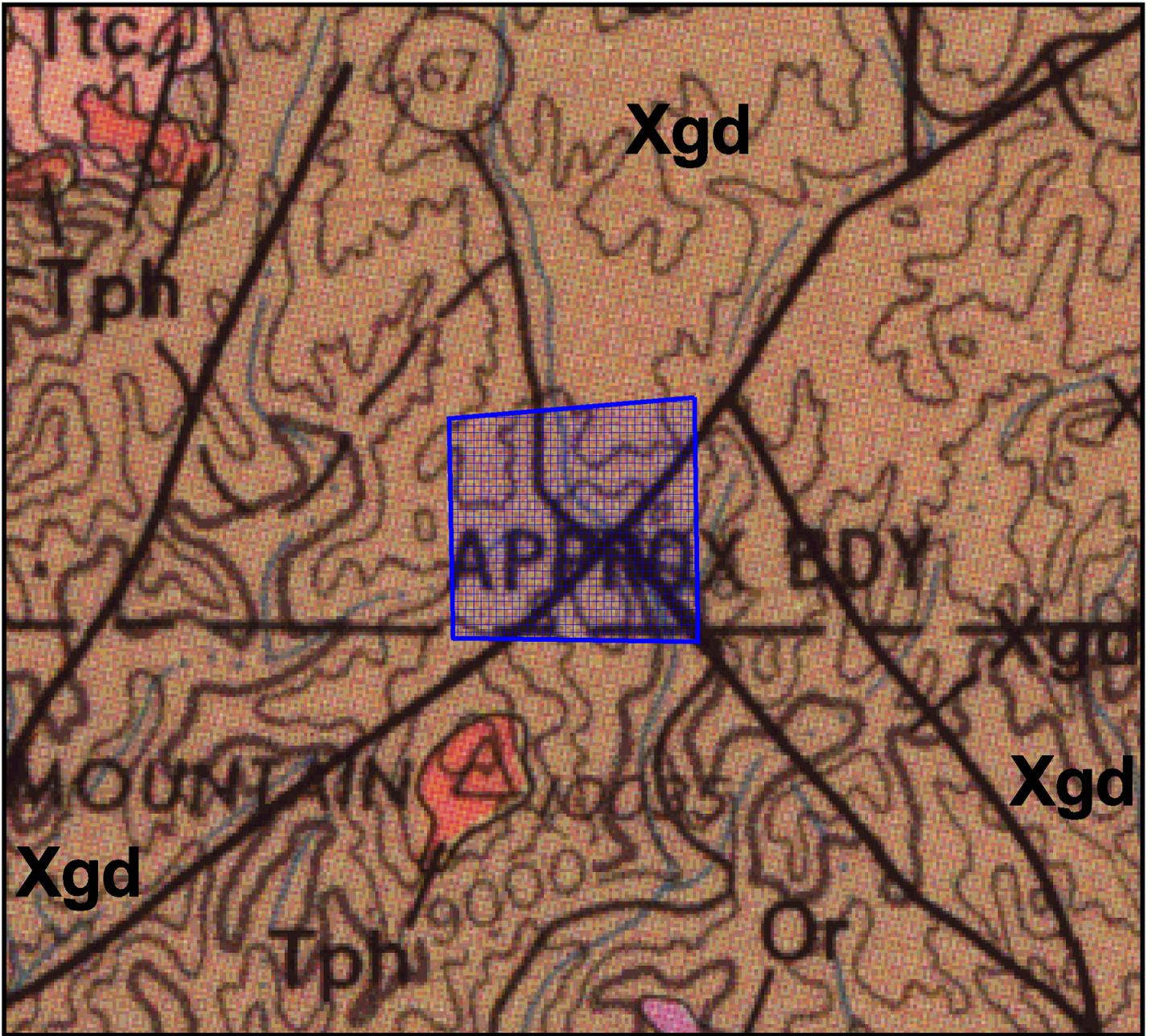
Location: T. 16 S, R. 69 W
Sections: 16
Approximate total acreage: 640

 Mineral acreage evaluated



1:32,000





Geologic Map for Tract # 119-20

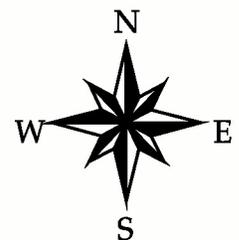
Location: T. 16 S, R. 69 W
 Sections: 16
 Approximate total acreage: 640

 *Mineral acreage evaluated*

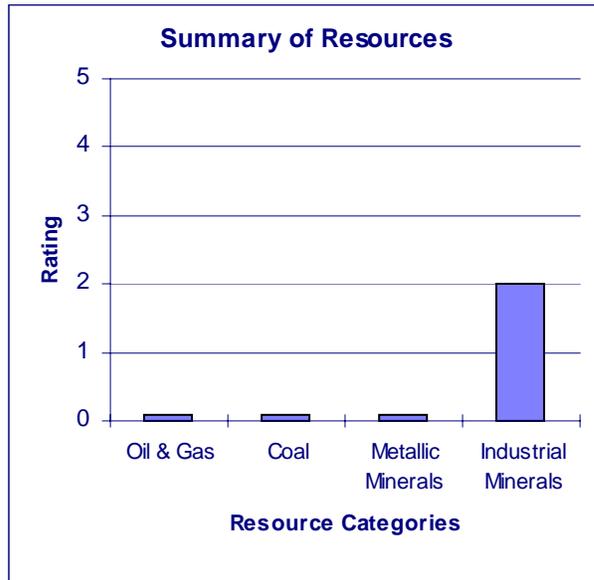
See report text for description of geologic units



1:32,000



STATE LANDBOARD MINERAL INVENTORY



TRACT IDENTIFIER: 119-21

COUNTY: Teller

LOCATION: The tract is located in an isolated area about three miles southeast of the Skagway Reservoir. Access is via unimproved roads into the tract. Skagway Reservoir is accessed by seven miles of improved road east of the city of Victor. There is one unimproved road on the tract.

LEGAL DESCRIPTION:

T. 16 S, R. 68 W, SECTION 16

APPROXIMATE ACREAGE: 640

QUADRANGLE NAME(S): Big Bull Mountain, Mount Big Chief

OVERVIEW OF GEOLOGY:

The entire tract is underlain by Proterozoic granodiorite.

(Xgd) Granodiorite: Pinkish-gray, massive to foliated, medium- to coarse-grained hornblende or biotite granodiorite; locally an augen gneiss.

OIL AND GAS RESOURCES:

This tract has no potential for oil and/or natural gas production.

COAL RESOURCES:

No known coal bearing rocks are present on the tract.

METALLIC MINERAL RESOURCES:

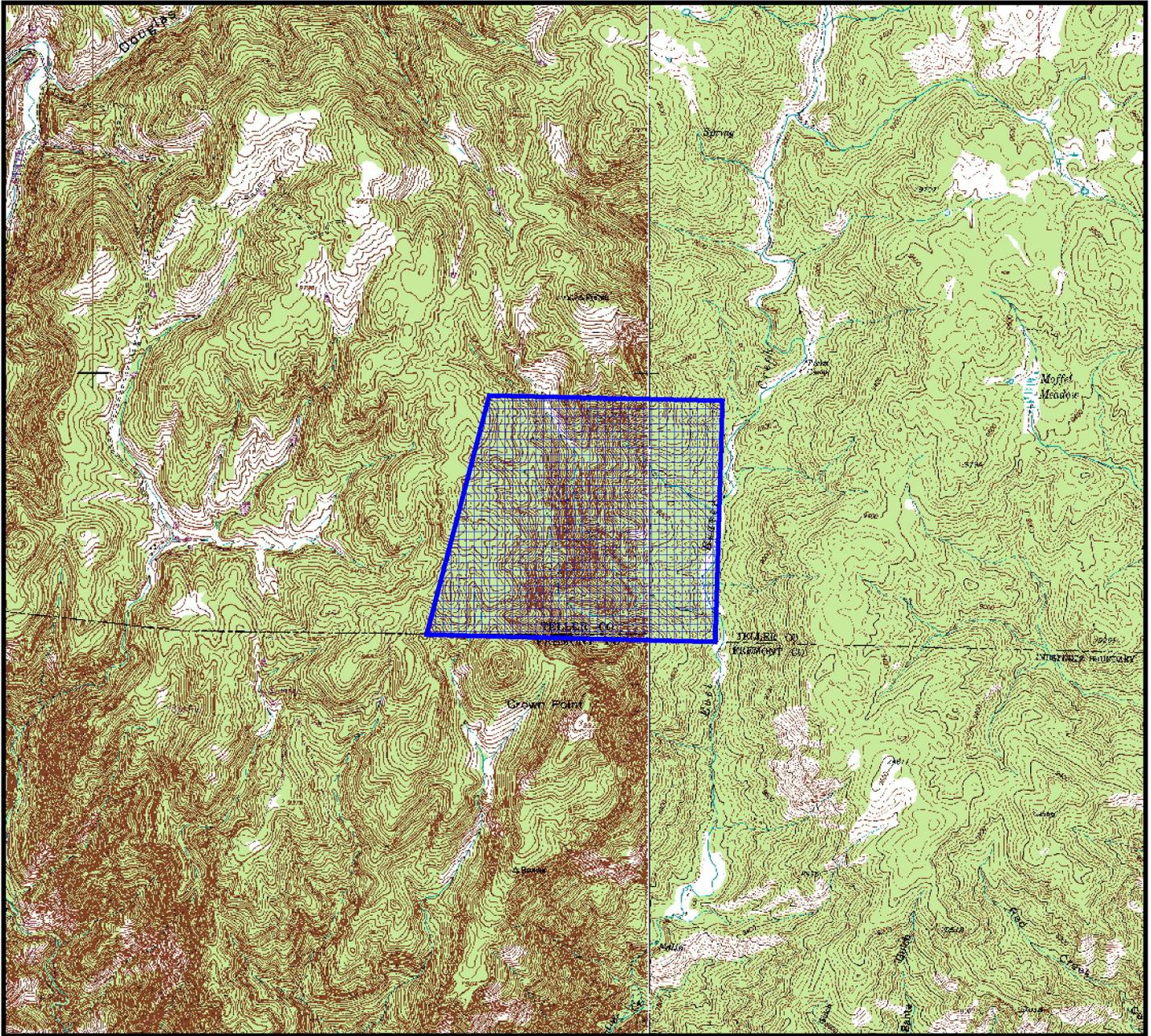
There are no recorded metallic deposits on this tract.

INDUSTRIAL MINERALS AND CONSTRUCTION MATERIALS:

The granodiorite can be used as coarse aggregate.

REFERENCES:

- Scott, G.R., Taylor, R.B., Epis, R.C., and Wobus, R.A., 1978, Geologic map of the Pueblo 1° X 2° quadrangle, south-central Colorado: U.S. Geological Survey Miscellaneous Investigation Series, I-1022, scale 1:250,000.
- Wobus, R.A., Epis, R.C., and Scott, 1976, Reconnaissance geologic map of the Cripple Creek–Pikes Peak area, Teller, Fremont, and El Paso Counties, Colorado: U.S. Geological Survey Miscellaneous Field Studies Map MF-805, scale 1:48,000.



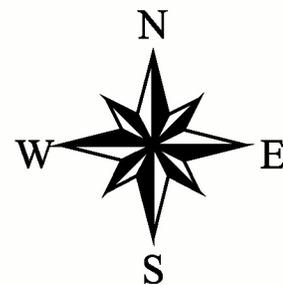
Topographic Map for Tract # 119-21

Location: T. 16 S, R. 68 W
Sections: 16
Approximate total acreage: 640

 Mineral acreage evaluated



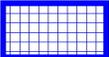
1:32,000





Geologic Map for Tract # 119-21

Location: T. 16 S, R. 68 W
 Sections: 16
 Approximate total acreage: 640

 *Mineral acreage evaluated*

See report text for description of geologic units



1:32,000

