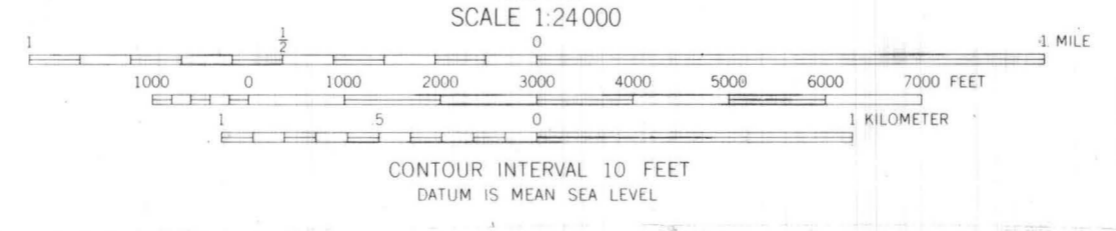
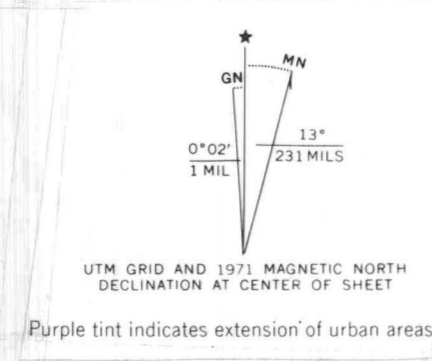


Base from U.S. Geological Survey
7 1/2-minute quadrangle.



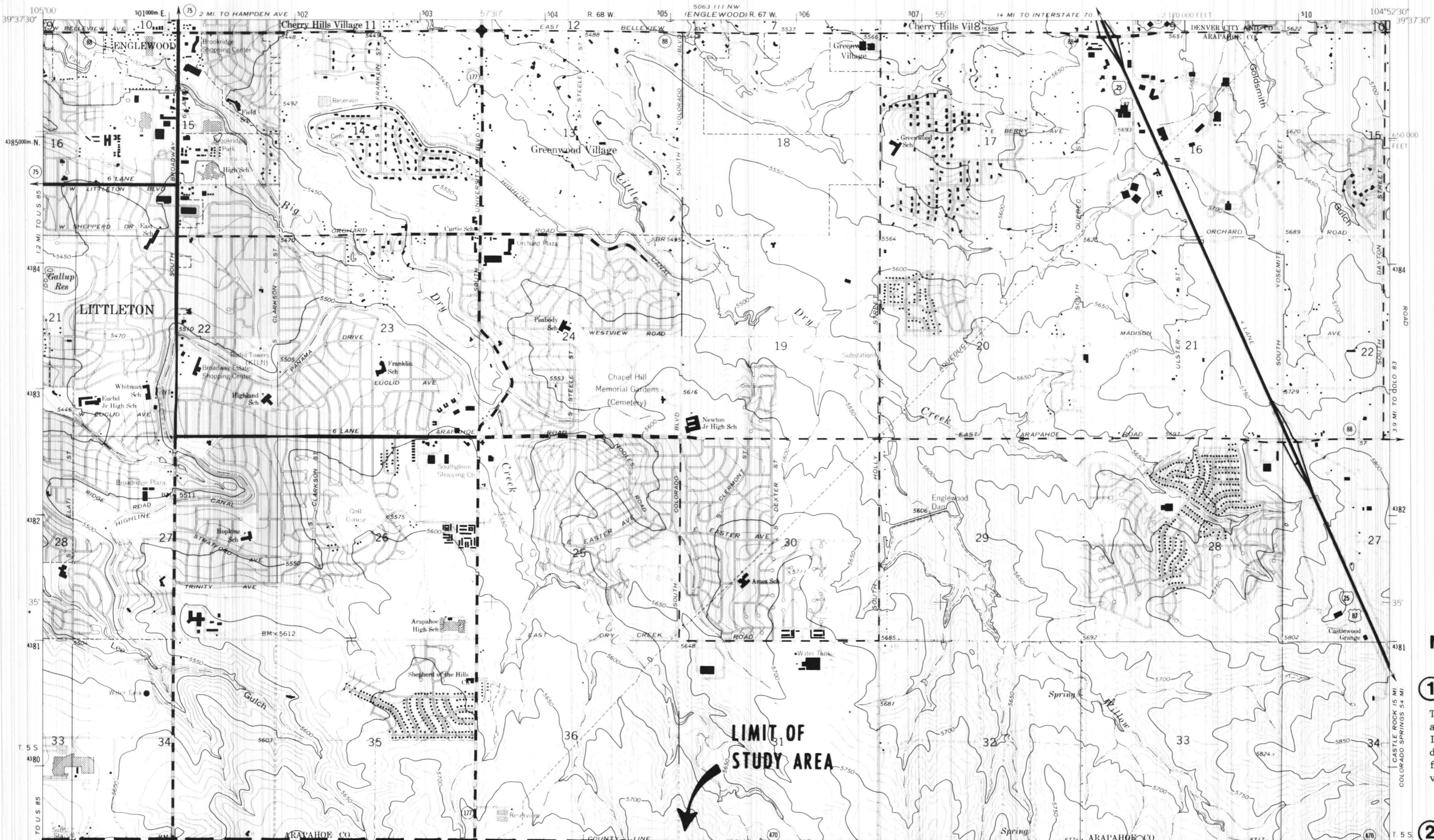
CGS-OF-78-5

PLATE 1 OF 16

EXPLANATION OF MAP IS PLATE 16.

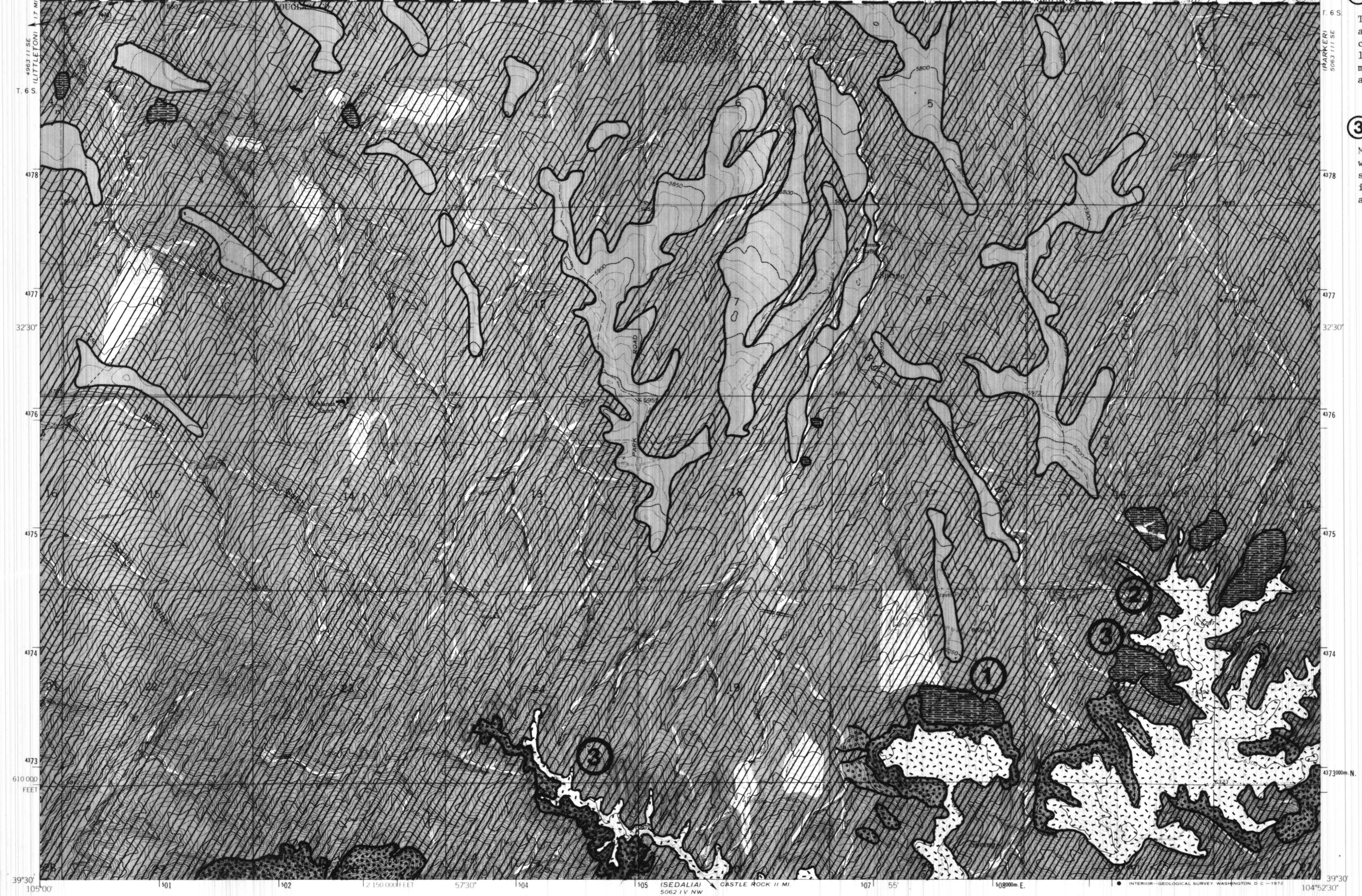
GEOLOGIC HAZARDS MAP OF THE
LITTLETON QUADRANGLE

BY
JAMES M. SOULE
1978

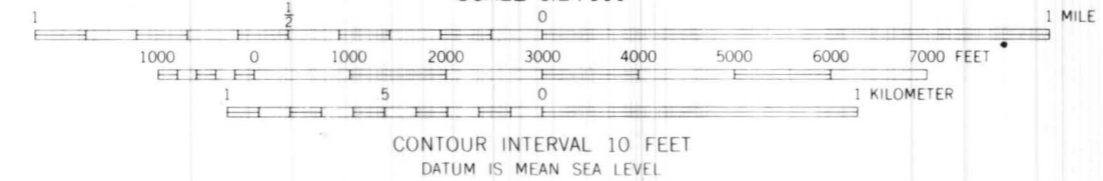
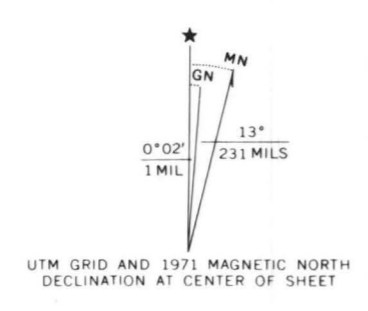


NOTES

- ① This large landslide appears to be inactive. Intensive residential development of this feature could reactivate its movements.
- ② There are many small areas of accelerated creep and small-scale landsliding on steeper mesa sideslopes in this area.
- ③ Most small drainage-ways adjacent to mesa sideslopes are localized small debris-flow areas.



Base from U.S. Geological Survey
7 1/2-minute quadrangle.



CGS-OF-78-5
PLATE 2 of 16

EXPLANATION OF MAP IS PLATE 16.
ALSO SEE NOTES ABOVE.

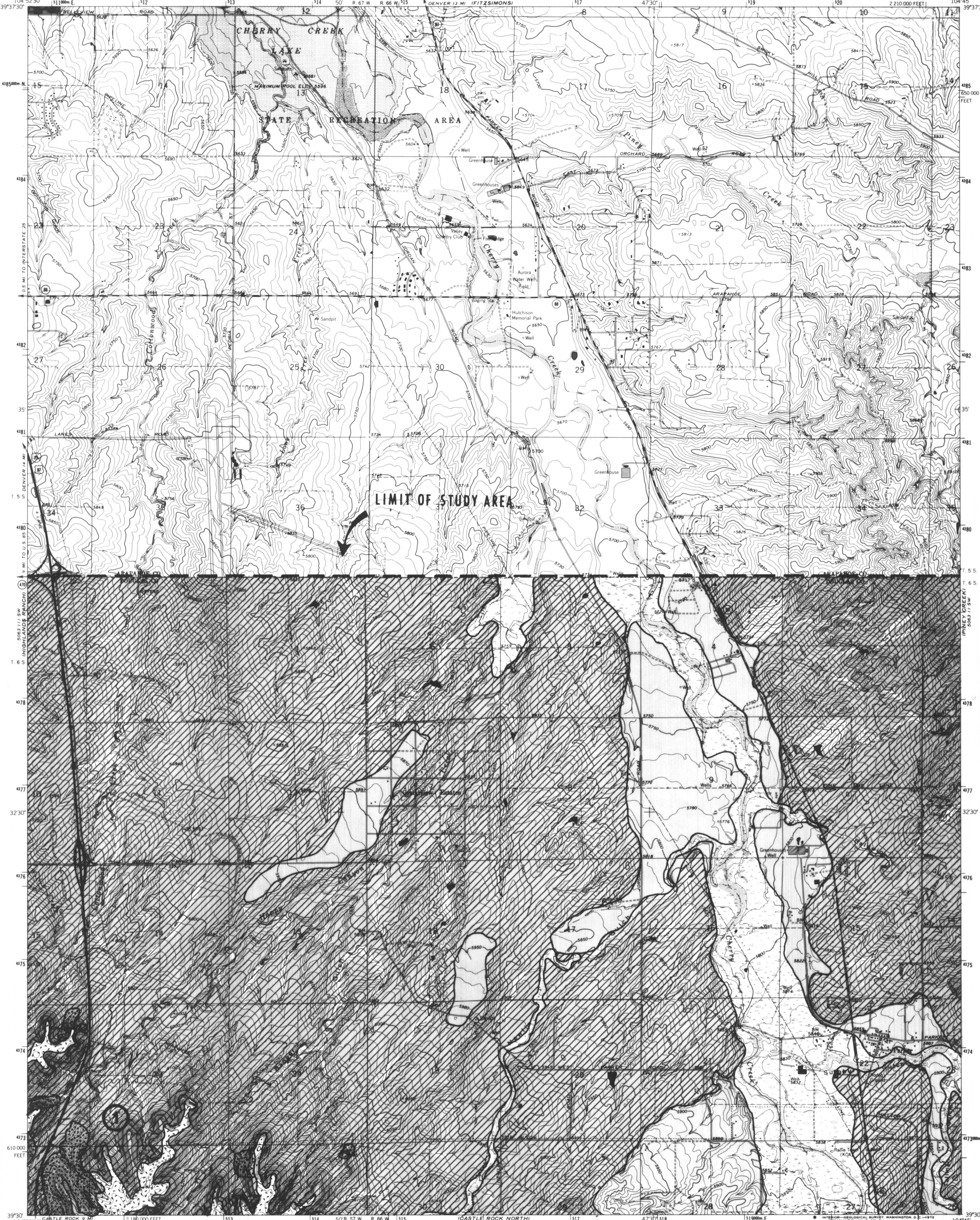
**GEOLOGIC HAZARDS MAP OF THE
HIGHLANDS RANCH QUADRANGLE**

BY
JAMES M. SOULE
1978

REFERENCES

Maberry, J.O. and Lindvall, R. M., 1974. Geologic map and engineering data for the Highlands Ranch Quadrangle, Arapahoe and Douglas Counties, Colorado: U.S. Geol. Survey Map MF-631.

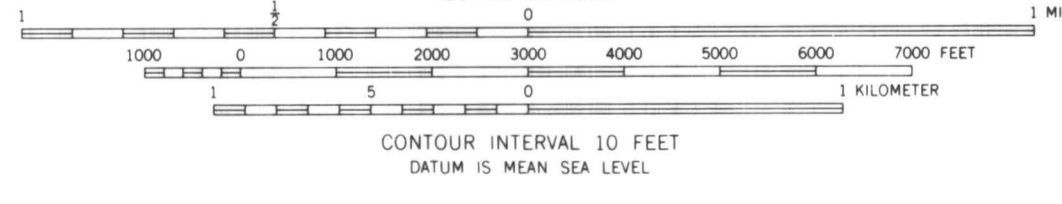
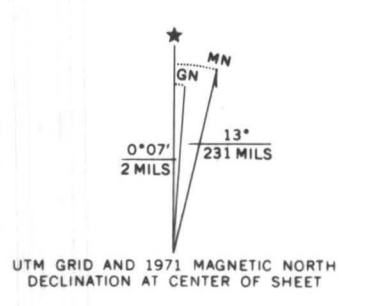
_____, 1977. Geologic map of the Highlands Ranch Quadrangle, Arapahoe and Douglas Counties, Colorado: U.S. Geol. Survey Map GQ-1413.



NOTE

①
Small debris-flow areas, usually 20 to 5 acres or less, exist in or near drainageways downslope from most rockfall-rock-slide areas.

Base from U.S. Geological Survey
7 1/2-minute quadrangle.



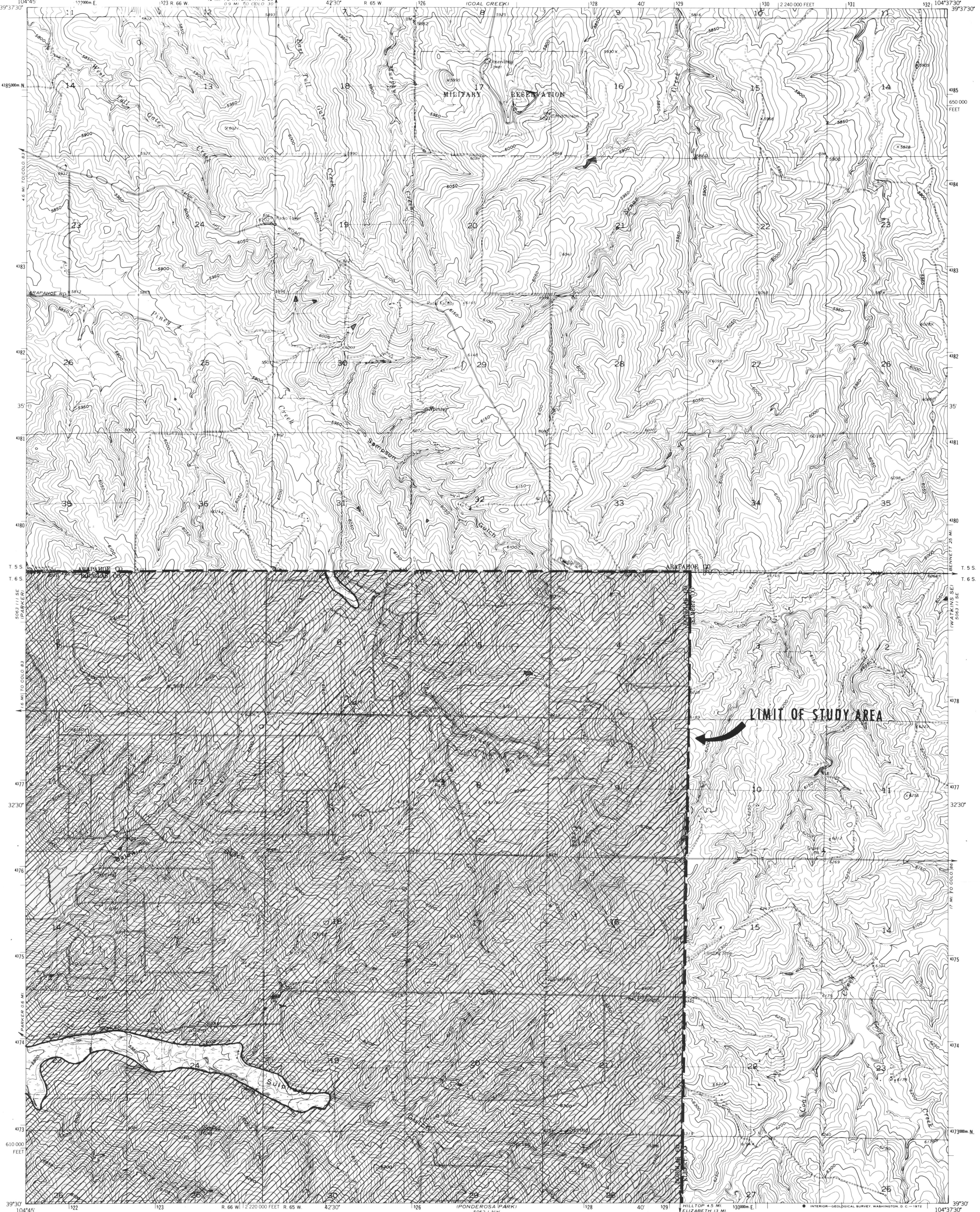
CGS-OF-78-5
PLATE 3 of 16
EXPLANATION OF MAP IS PLATE 16.
ALSO SEE NOTES ABOVE.

**GEOLOGIC HAZARDS MAP OF THE
PARKER QUADRANGLE**

BY
JAMES M. SOULE
1978

REFERENCES

Maberry, J. O. and Lindvall, R. M., Folio of the Parker Quadrangle, Douglas and Arapahoe Counties, Colorado: U.S. Geol. Survey Maps I-770-A to I-770-N.



Base from U.S. Geological Survey
7 1/2-minute quadrangle.

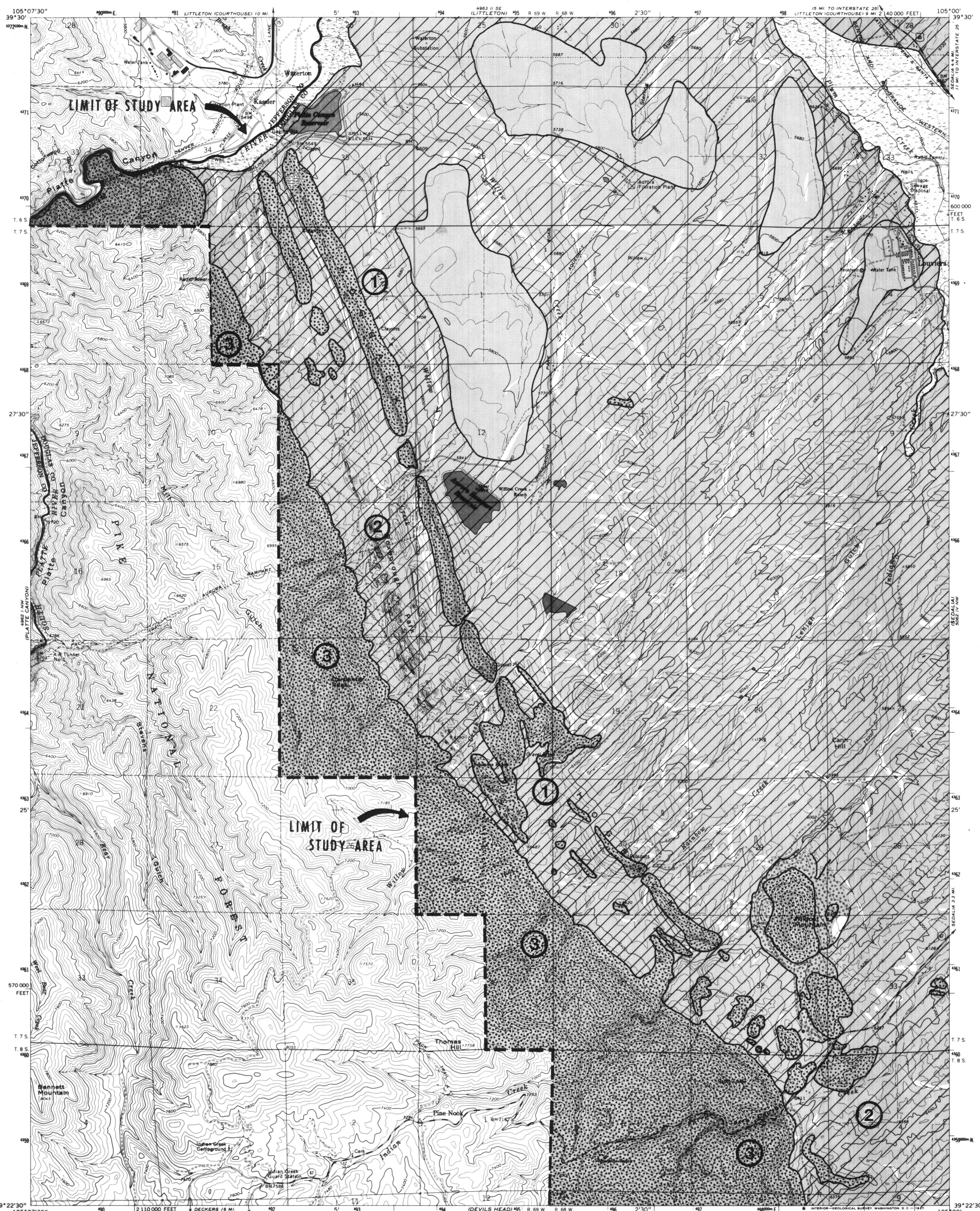
UTM GRID AND 1971 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET

SCALE 1:24,000

CONTOUR INTERVAL 10 FEET
DATUM IS MEAN SEA LEVEL

CGS-OF-78-5
PLATE 4 OF 16
EXPLANATION OF MAP IS PLATE 16.

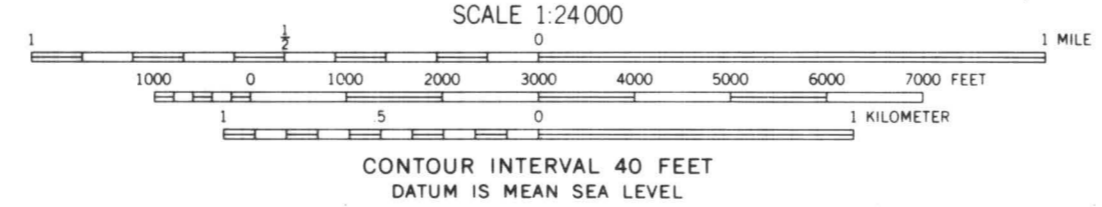
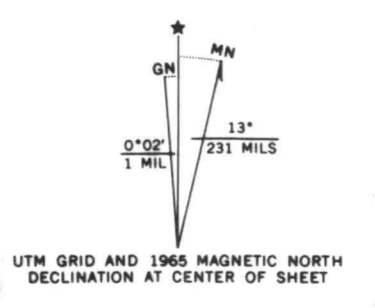
GEOLOGIC HAZARDS MAP OF THE
PINEY CREEK QUADRANGLE
BY
JAMES M. SOULE
1978



NOTES

- ① Small debris-flow areas, usually 20 to 5 acres or less, exist in or near drainageways downslope from most rockfall-rock-slide areas.
- ② Many pinnacles in the vicinity of Roxborough Park may present moderate to severe rock-fall hazards in their immediate vicinity.
- ③ All canyons along the mountain front are highly flash-flood prone and can produce large amounts of mobilized debris during heavy rainstorms. Hazardous debris fans are formed at the mouths of most of these canyons.

Base from U.S. Geological Survey
7 1/2-minute quadrangle.

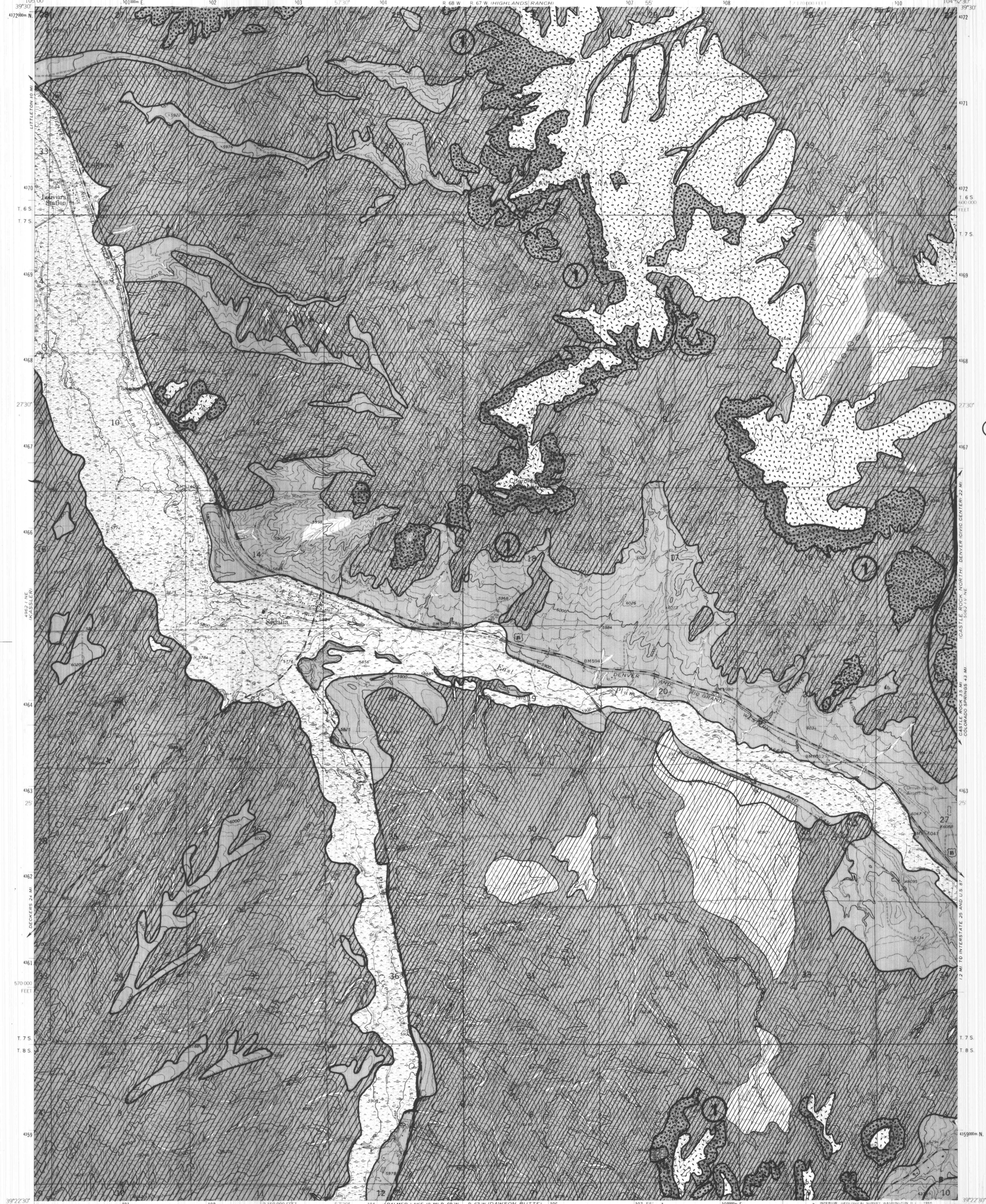


CGS-OF-78-5
PLATE 5 OF 16

EXPLANATION OF MAP IS PLATE 16.
ALSO SEE NOTES ABOVE.

**GEOLOGIC HAZARDS MAP OF THE
KASSLER QUADRANGLE**

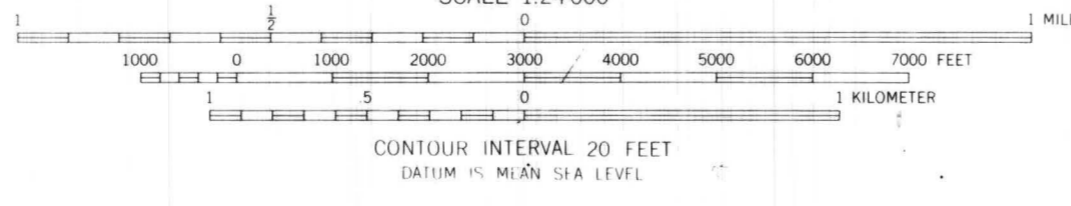
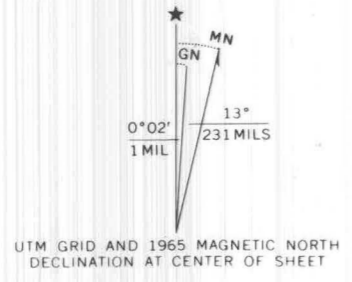
BY
JAMES M. SOULE
1978



NOTE

① Small debris-flow areas, usually 20 to 5 acres or less, exist in or near drainageways downslope from most rockfall-rock-slide areas.

Base from U.S. Geological Survey
7 1/2-minute quadrangle.



**GEOLOGIC HAZARDS MAP OF THE
SEDALIA QUADRANGLE**

BY
JAMES M. SOULE
1978

CGS-OF-78-5
PLATE 6 OF 16

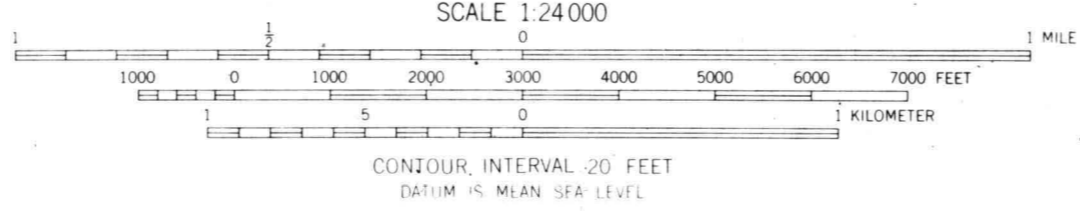
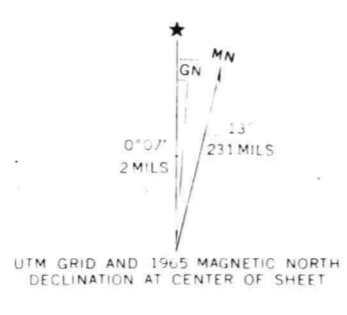
EXPLANATION OF MAP IS PLATE 16.
ALSO SEE NOTES ABOVE.



NOTES

- ① These landslides consist of large areas of deep accelerated creep. Slope movements appear to occur only during the late winter and spring months of especially wet years.
- ② Small debris-flow areas, usually 20 to 5 acres or less, exist in or near drainageways downslope from most rockfall-rock-slide areas.

Base from U.S. Geological Survey
7 1/2-minute quadrangle.

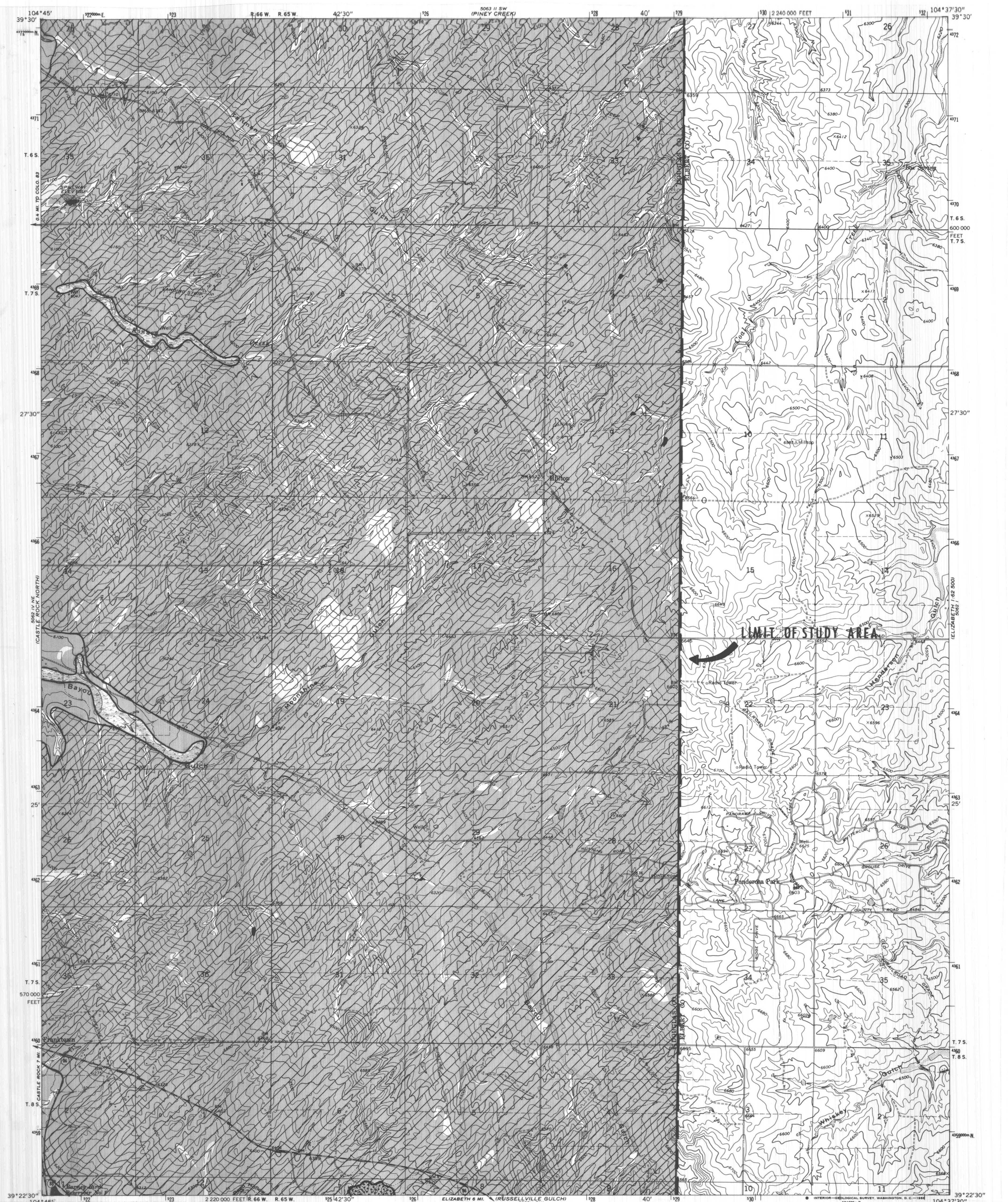


CGS-OF-78-5
PLATE 7 OF 16

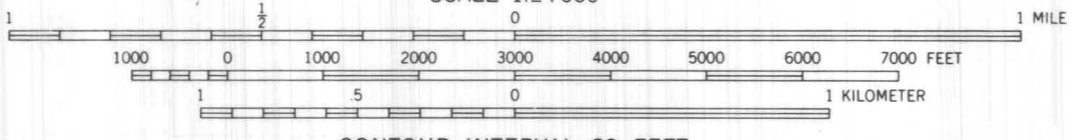
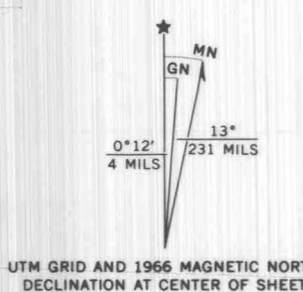
EXPLANATION OF MAP IS PLATE 16.
ALSO SEE NOTES ABOVE.

**GEOLOGIC HAZARDS MAP OF THE
CASTLE ROCK NORTH QUADRANGLE**

BY
JAMES M. SOULE
1978



Base from U.S. Geological Survey
7 1/2-minute quadrangle.



SCALE 1:24000
CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

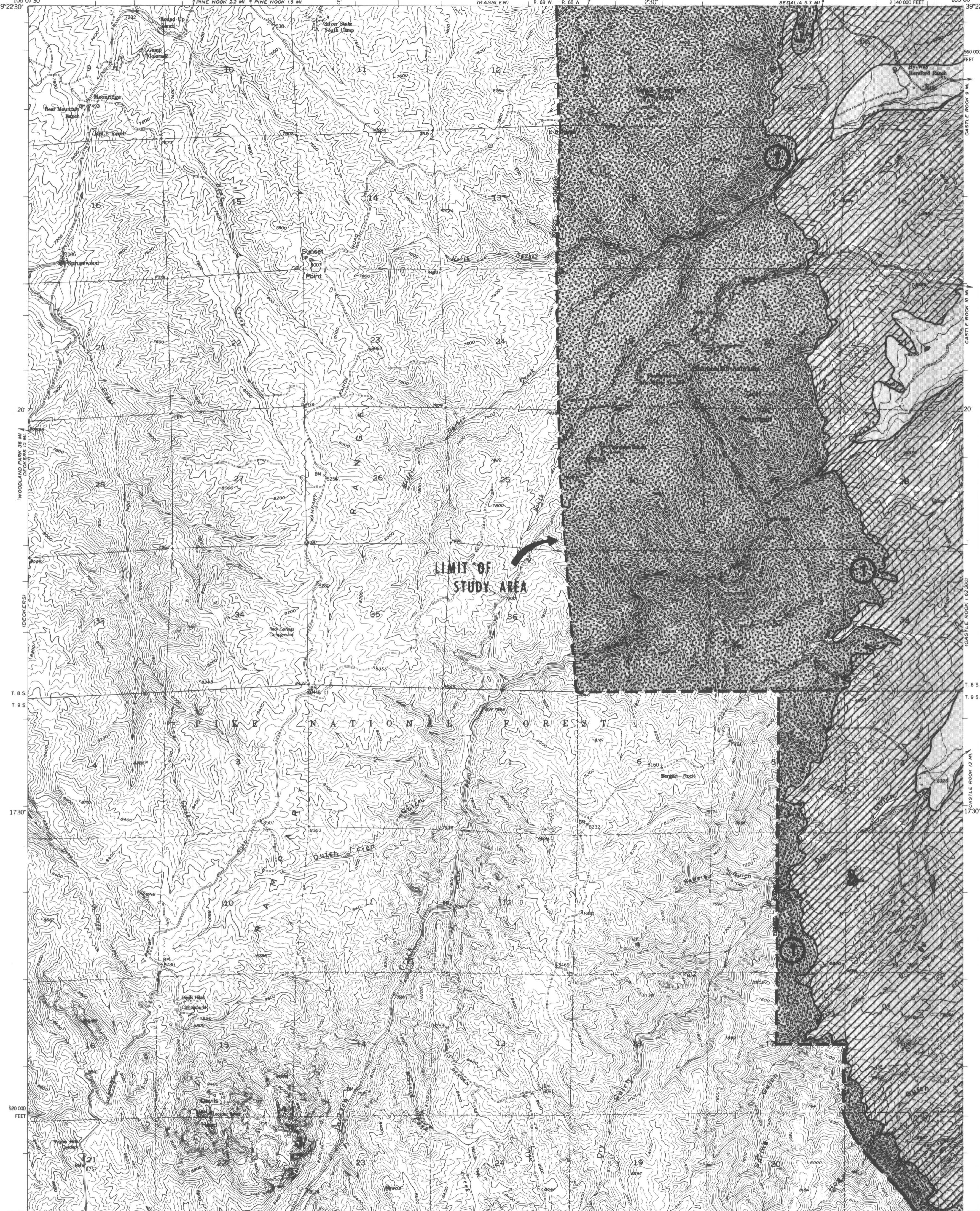
CGS-OF-78-5

PLATE 8 OF 16

EXPLANATION OF MAP IS PLATE 16.

GEOLOGIC HAZARDS MAP OF THE
PONDEROSA PARK QUADRANGLE

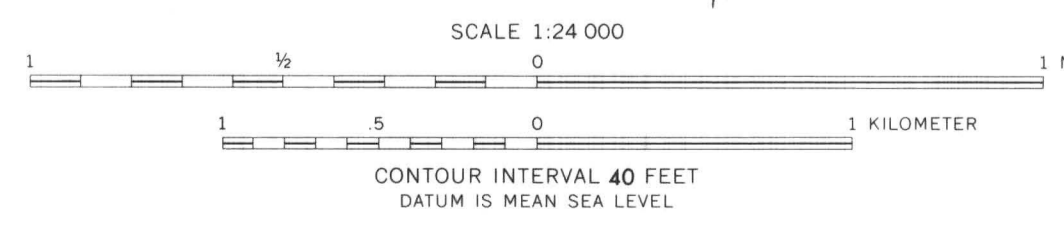
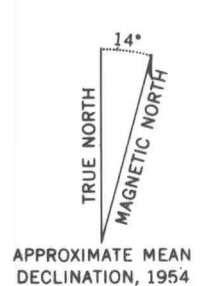
BY
JAMES M. SOULE
1978



NOTE

- ① All canyons along the mountain front are highly flash flood prone and can produce large amounts of mobilized debris during heavy rainstorms. Hazardous debris fans are formed at the mouths of most of these canyons.

Base from U.S. Geological Survey
7 1/2-minute quadrangle.

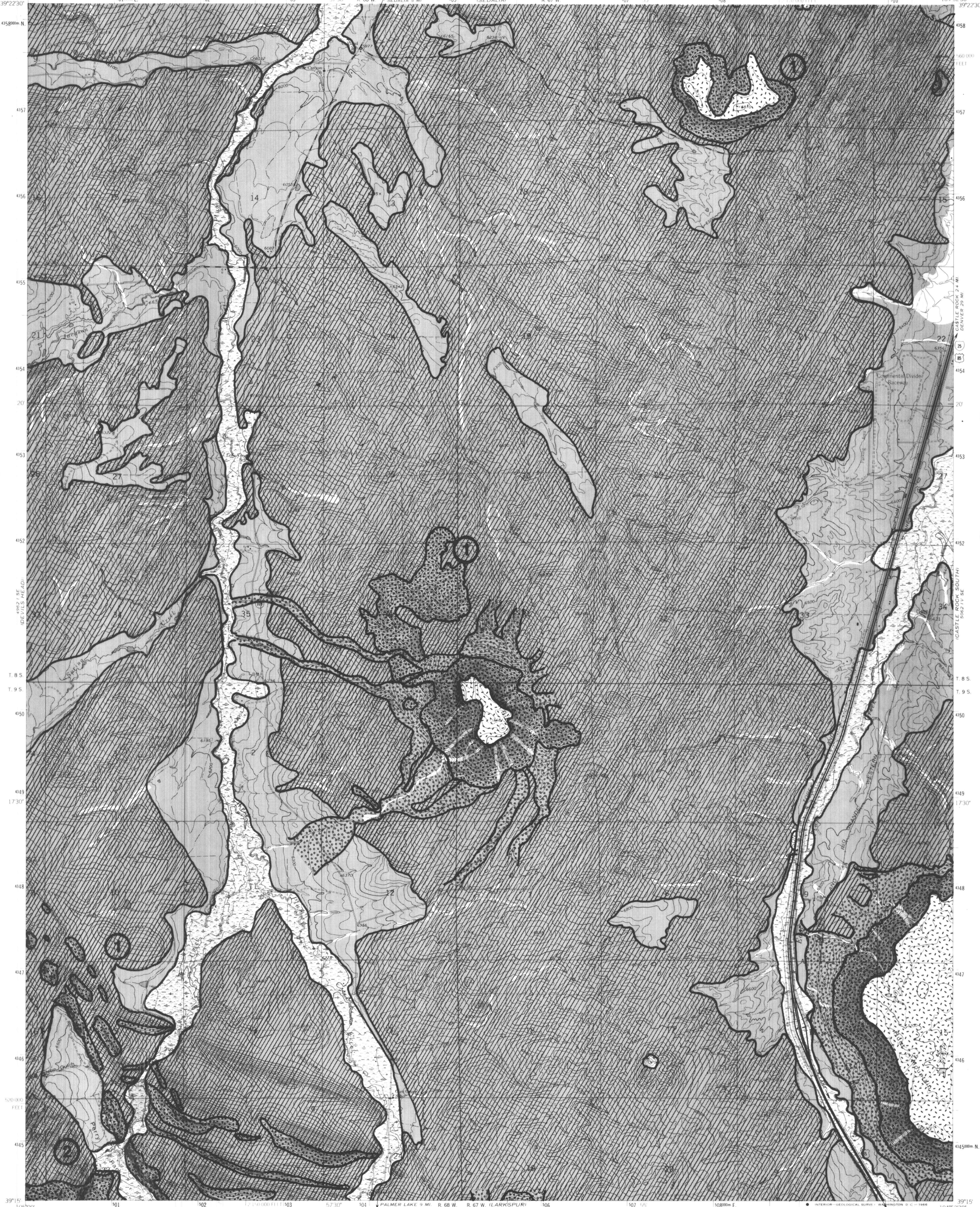


CGS-OF-78-5
PLATE 9 of 16

EXPLANATION OF MAP IS PLATE 16.
ALSO SEE NOTES ABOVE.

**GEOLOGIC HAZARDS MAP OF THE
DEVILS HEAD QUADRANGLE**

BY
JAMES M. SOULE
1978



NOTES

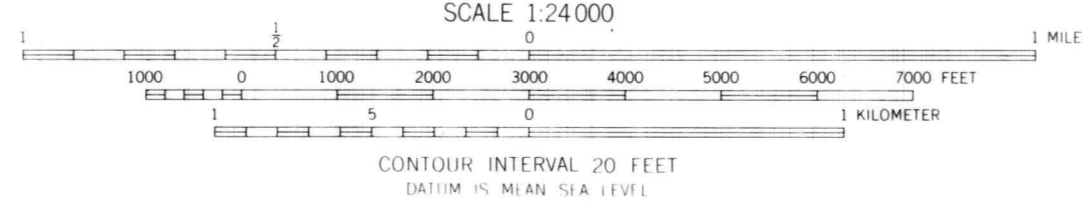
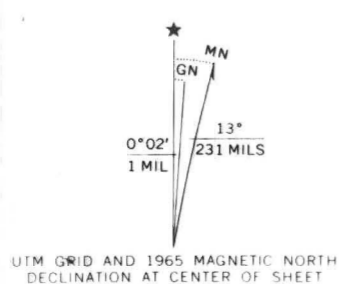
①

Small debris-flow areas, usually 20 to 5 acres or less, exist in or near drainageways downslope from most rockfall-rock-slide areas.

②

All canyons along the mountain front are highly flash flood prone and can produce large amounts of mobilized debris during heavy rainstorms. Hazardous debris fans are formed at the mouths of most of these canyons.

Base from U. S. Geological Survey 7 1/2-minute quadrangle.

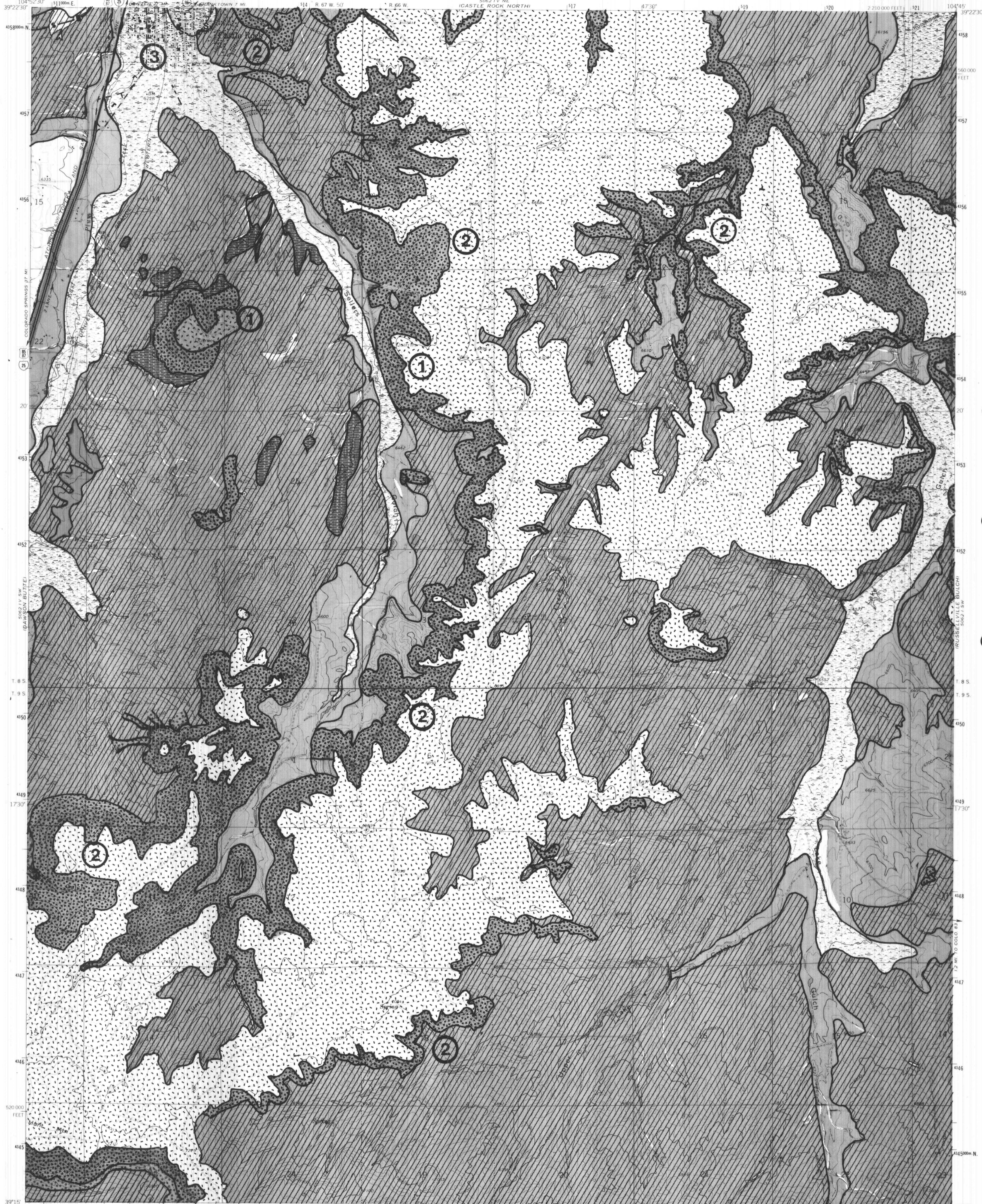


CGS-OF-78-5
 PLATE 10 of 16

EXPLANATION OF MAP IS PLATE 16.
 ALSO SEE NOTES ABOVE.

**GEOLOGIC HAZARDS MAP OF THE
 DAWSON BUTTE QUADRANGLE**

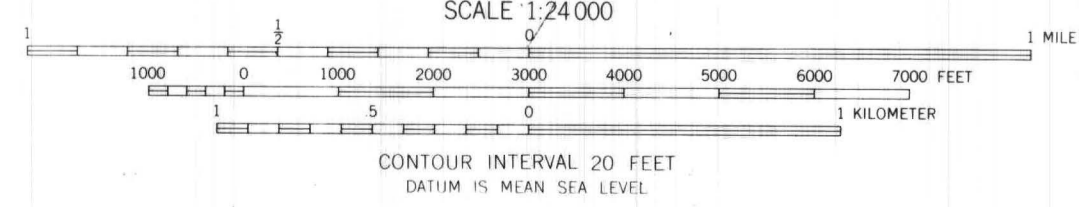
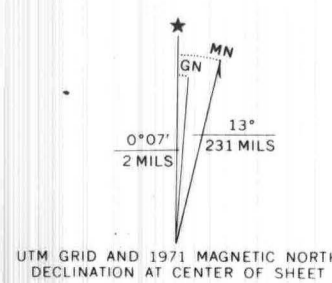
BY
 JAMES M. SOULE
 1978



NOTES

- ① Small areas of rockfall-rockslide and unstable or potentially unstable slope exist near or in quarries.
- ② Small debris-flow areas, usually 20 to 5 acres or less, exist in or near drainageways downslope from most rockfall-rockslide areas.
- ③ Subsidence near Castle Rock is caused by collapse of abandoned underground clay mines. As records of the exact location(s) and extent of this mining are not available the boundaries shown on this map should be considered indefinite.

Base from U.S. Geological Survey
7 1/2-minute quadrangle

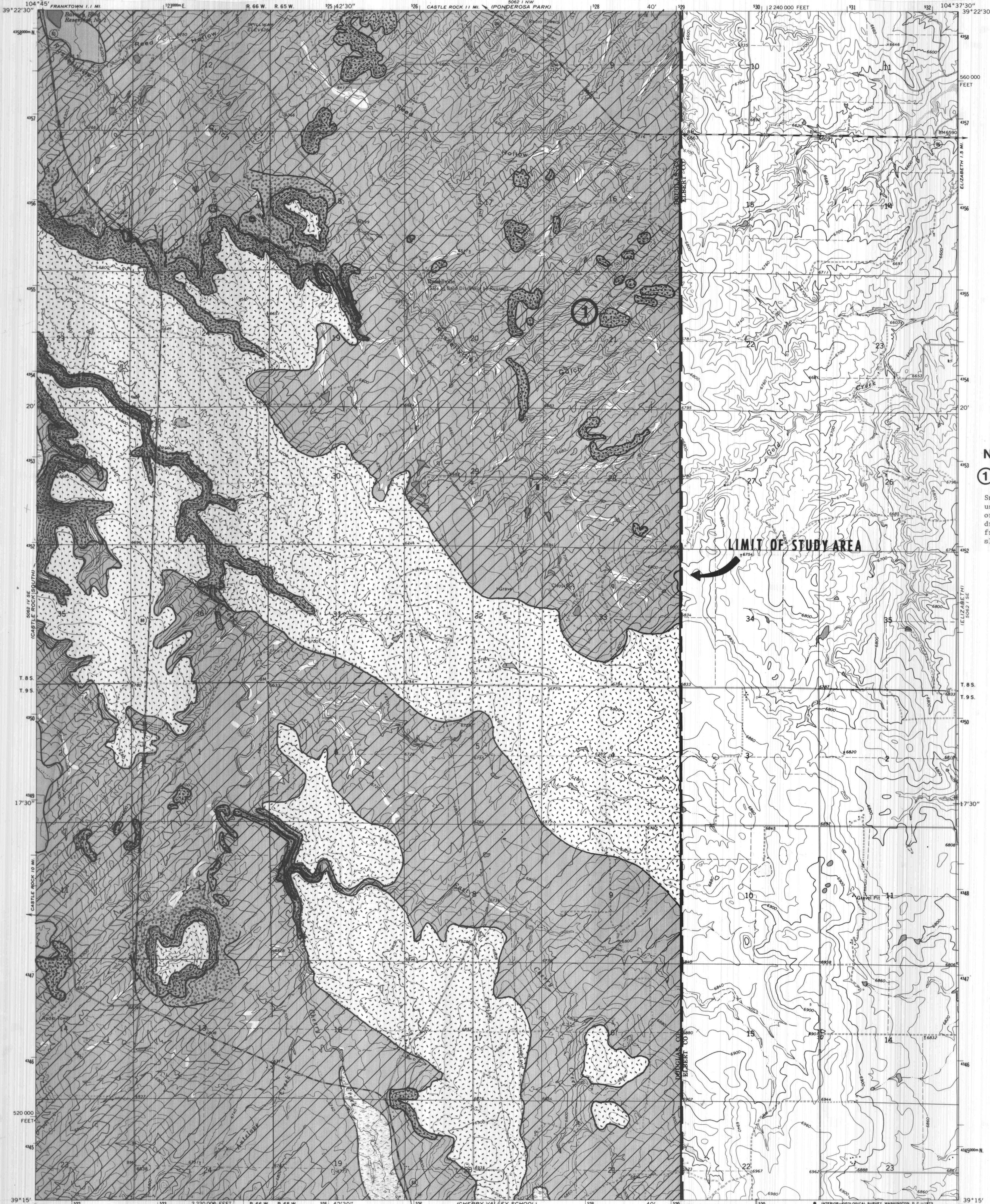


**GEOLOGIC HAZARDS MAP OF THE
CASTLE ROCK SOUTH QUADRANGLE**

BY
JAMES M. SOULE
1978

CGS-OF-78-5
PLATE 11 of 16

EXPLANATION OF MAP IS PLATE 16.
ALSO SEE NOTES ABOVE.

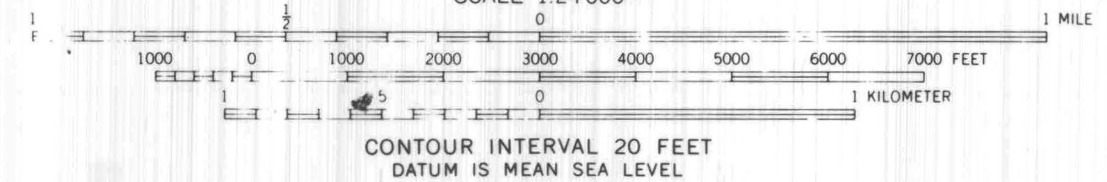
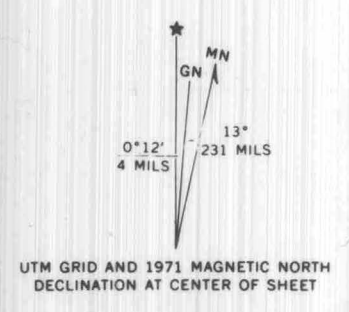


NOTE

① Small debris-flow areas, usually 20 to 5 acres or less, exist in or near drainageways downslope from most rockfall-rock-slide areas.

LIMIT OF STUDY AREA

Base from U.S. Geological Survey 7 1/2-minute quadrangle.

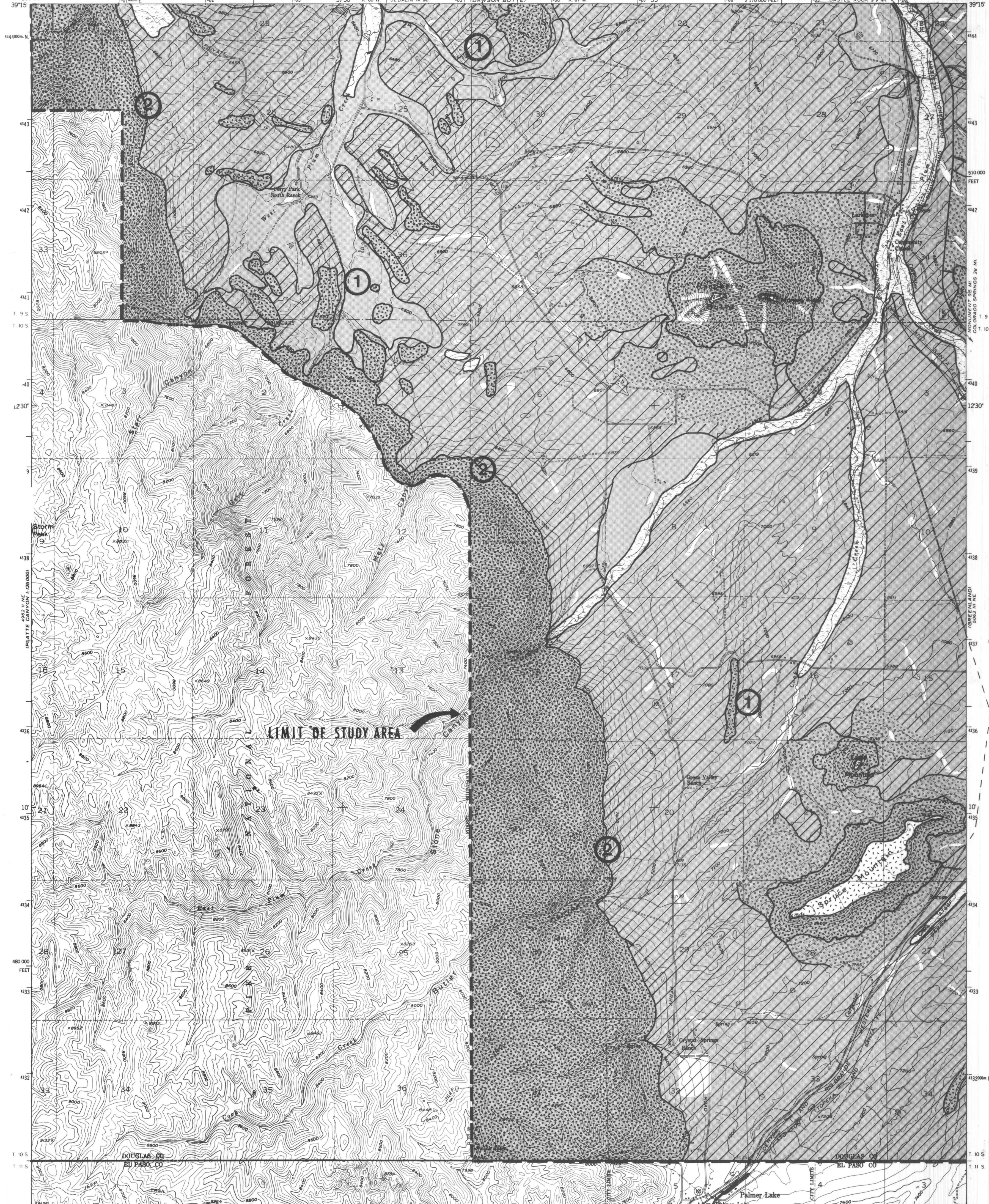


CGS-OF-78-5
 PLATE 12 OF 16

EXPLANATION OF MAP IS PLATE 16.
 ALSO SEE NOTES ABOVE.

**GEOLOGIC HAZARDS MAP OF THE
 RUSSELLVILLE GULCH QUADRANGLE**

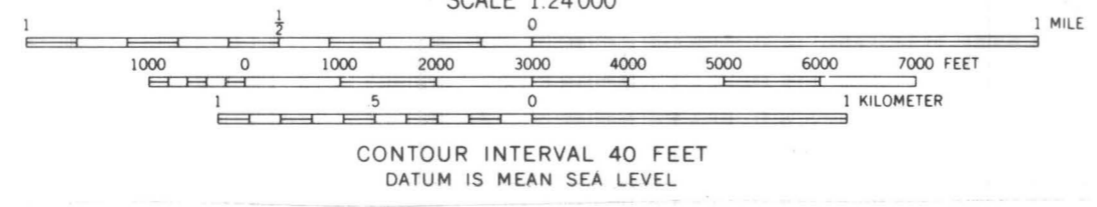
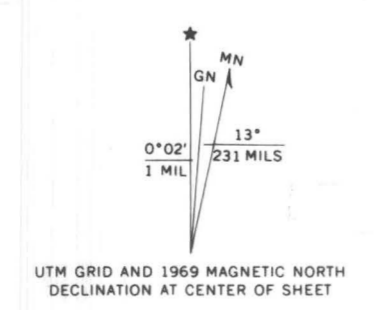
BY
JAMES M. SOULE
 1978



NOTES

- ① Small debris-flow areas, usually 20 to 5 acres or less, exist in or near drainageways downslope from most rockfall-rock-slide areas.
- ② All canyons along the mountain front are highly flash flood prone and can produce large amounts of mobilized debris during heavy rainstorms. Hazardous debris fans are formed at the mouths of most of these canyons.

Base from U.S. Geological Survey
7 1/2-minute quadrangle.



**GEOLOGIC HAZARDS MAP OF THE
LARKSPUR QUADRANGLE**

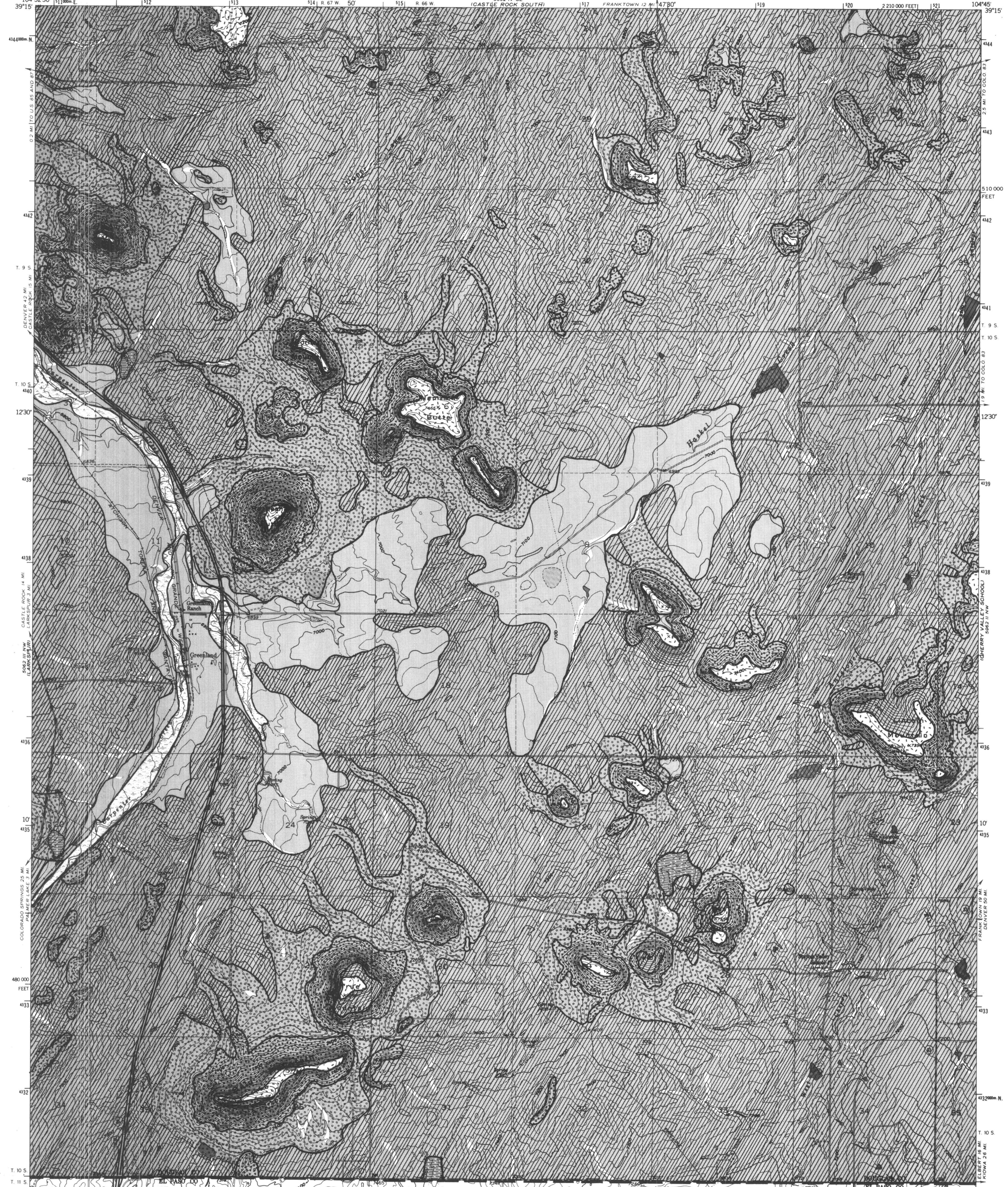
BY
JAMES M. SOULE
1978

CGS-OF-78-5

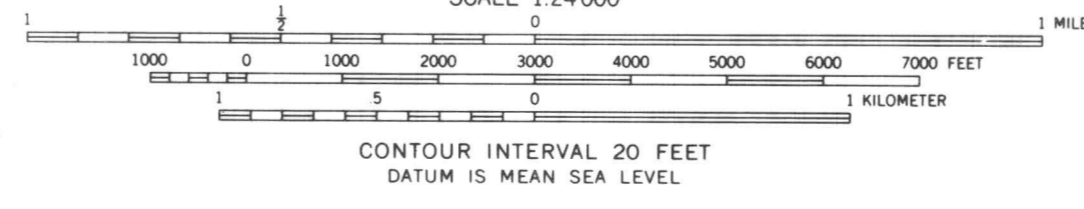
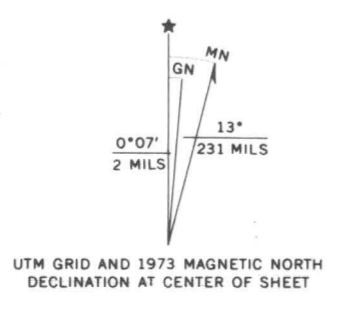
PLATE 13 OF 16

EXPLANATION OF MAP IS PLATE 16.
ALSO SEE NOTES ABOVE.

SPECIAL PRINTING
Contours and woodland symbols omitted



Base from U.S. Geological Survey
7 1/2-minute quadrangle.

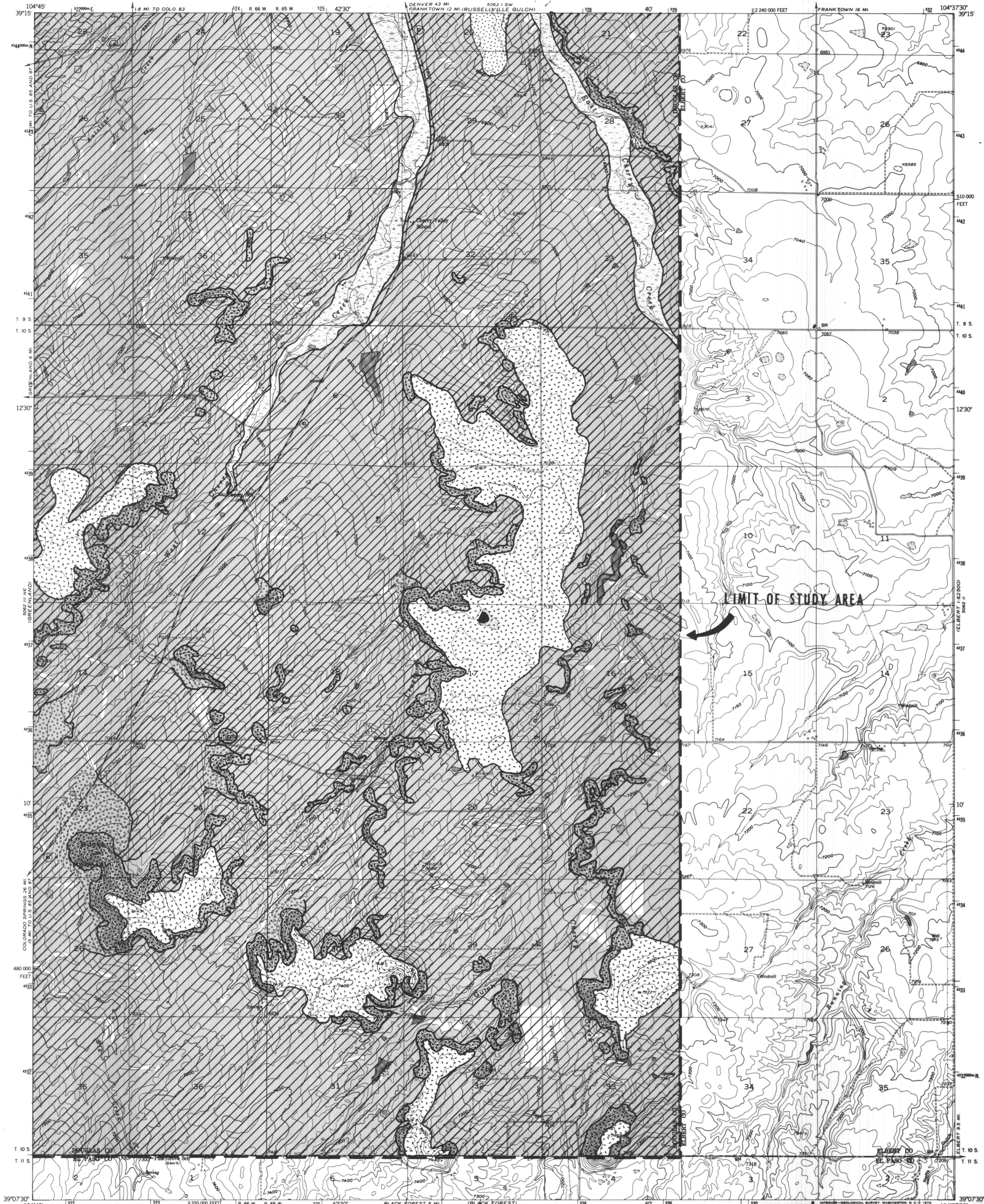


CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

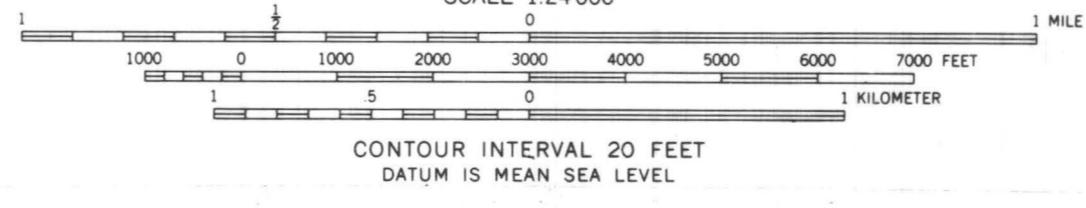
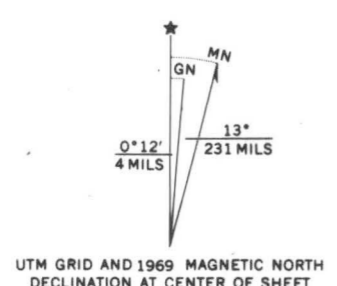
CGS-OF-78-5
PLATE 14 of 16
EXPLANATION OF MAP IS PLATE 16.

GEOLOGIC HAZARDS MAP OF THE
GREENLAND QUADRANGLE

BY
JAMES M. SOULE
1978



Base from U.S. Geological Survey
7 1/2-minute quadrangle.



CGS-0F-78-5
PLATE 15 of 16
EXPLANATION OF MAP IS PLATE 16.

GEOLOGIC HAZARDS MAP OF THE
CHERRY VALLEY SCHOOL QUADRANGLE

BY
JAMES M. SOULE
1978

GEOLOGIC HAZARDS IN DOUGLAS COUNTY, COLORADO

by JAMES M. SOULE
1978

EXPLANATION
Colorado Geological Survey
Open-File Report
CGS-OF-78-5

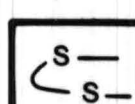
GENERAL

Geologic hazards are natural geologic conditions that if unrecognized or inadequately planned for can result in loss of life, damage to structures, or high maintenance costs, especially for homes, roads, and utilities. The mapping units used on this map are a combination of genetically related features, processes, and/or conditions that could cause problems for human activities. Where appropriate, mapping units and their definitions conform to the terminology and definitions given in Colorado House Bill 1041 and the Colorado Geological Survey's Guidelines and Criteria for Identification and Land Use Controls in Geologic Hazard and Mineral Resource Areas (Rogers and others, 1974). In addition, hazard areas may include geologic hazards that vary greatly in degree depending on natural variation within the area and on various man-caused changes that may occur in the future. Because most of Douglas County is presently in the natural state or is being used for low-intensity uses like agriculture and grazing, most of the mapped hazards cause no difficulties for existing human activities. No detailed quantification of geologic hazards is made in this study other than the table below which relates the degree of hazard to certain types of land use. In short, the actual degree of hazard depends as much, if not more, on human decisions affecting land use as it does on geologic factors.

SUGGESTIONS TO MAP USERS

This map should be used as an indicator of locations where a particular geologic hazard may adversely affect certain land uses. It is not intended to supplant detailed field investigations of individual sites, but rather to signal places where the indicated geologic conditions can be expected and should be specifically addressed in advance of any land-use change. If this map is used to designate geologic-hazard areas as specified by H.B. 1041 (Rogers and others, 1974, p. 120-121), then it is suggested that this map serve as a basis for further investigation of individual sites. Detailed investigation and evaluation may serve as the basis for actual designs, or such studies might indicate that for economic or safety reasons the particular activity is not feasible. Land-use decisions in these areas should be based on technical reviews and planning evaluation of detailed studies and specific site plans.

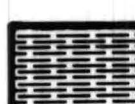
EXPLANATION



SUBSIDENCE AREA: Area where collapse of underground mining excavations can cause general lowering or severe differential settlement of the ground surface. Precise delineation of these subsidence areas is difficult and requires drilling or geophysical investigations because the mining excavations are concealed beneath the ground surface and in most localities poor or no records of mining or maps of mines are available. Moreover, because surface subsidence is caused by surfaceward migration of collapsing mine voids, subsidence effects can occur without warning or be sporadic. Subsidence commonly is intermittent, can vary greatly in rate, and can occur suddenly with little prior warning. Consequently, hazard zones with indefinite boundaries only are shown on this map.

Hazards in mine-subsidence areas are usually related to buckling, spreading, or cracking of rigid structures such as buildings, bridges, or roads; disruption of drainage and utilities; or in some instances, loss of structures that fall into subsidence pits.

In addition to subsidence caused by mining, some areas with certain surficial materials may settle or collapse if loaded or wetted. Most commonly, these materials are soil and eolian deposits (loess and sand) located at or near the south or southeast. These subsidence areas are not mapped because of their simple association with drainages, their number, and the necessity for site-specific engineering-soils test to determine related hazard for a specific land use.



SLOPE-FAILURE AREA: Area where landsliding, earthflowage and/or accelerated creep are taking place. Evidence for slope failure includes hummocky topography with distinctive abrupt changes in slope near the main scarps of landslides, vegetation or man-made works disrupted by slope movements, anomalous slope reversal(s), ground-moisture conditions indicative of slope movement, and microtopographic features such as soil ripples and ground cracks.

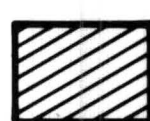
Slope-failure areas are mapped only where ground-movement can be demonstrated unequivocally. Other slope failures undoubtedly exist, but have not been recognized as such. Most of these slope failures probably are included under unstable or potentially unstable slopes.

Slope failure areas are hazardous because slope movements can damage or destroy buildings and/or their foundations and utilities.



ROCKFALL-ROCKSLIDE/DEBRIS AVALANCHE AREA: Area subject to falling, sliding, and/or avalanching of individual blocks of rock, accumulations of blocky material, or heterogeneous, granular colluvium. Includes areas with deposits of talus and debris contiguous to their sources. Areas mapped as this unit are characterized by very rapid to nearly instantaneous slope movements that occur during heavy rainstorms. Because of this association with periods of rapid water runoff, water-flooding and debris-flow hazards are common locally in some parts of these areas. Lesser slopes do not usually indicate a lessening of susceptibility to these hazardous processes. Rockfalls occur on or near cliffs. Debris avalanches and rockslides usually are initiated on rock-rubble and debris-strewn slopes ranging from 20 to 45-degrees (36 to 100-percent) inclination. Materials mobilized by these types of slope failures can continue to move downward and outward as slurry-like flows that move away from their sources over gentle slopes.

Hazards in these areas result from possibility of impact to structures by rapidly moving rocks and debris. These mass movements occur so rapidly that little, if any, warning of their impending occurrence is possible. Safe, intensive land uses such as residential development in these areas are rarely possible. Other less intensive land uses may be safe, especially if occasional cleaning up of debris and/or partial to complete destruction of structures is acceptable.



UNSTABLE OR POTENTIALLY UNSTABLE SLOPE: Slope with evidence for past slope movements or geologic conditions favorable for slope failure. These slopes are characterized by physiography produced by landsliding soil creep, earth-flowage and/or by moderately to steeply sloping, poorly consolidated colluvium, alluvium or deeply weathered bedrock. Potential for slope movement varies with slope inclination and aspect, local ground-moisture conditions, permeability of surficial materials and man-made modifications of the ground surface, especially those that affect drainage and seepage of slope.

Unstable or potentially unstable slopes commonly coincide with moderate-to-high erosion-potential areas. This coincidence appears to be related to changes in natural drainage usually made for road construction, agricultural management or from damage to or removal of natural vegetation by people and grazing animals. In many places modern accelerated gully and sheet erosion has removed considerable amounts of material decreasing the stability of slopes. Lesser slopes included in this mapping unit are usually less likely to fail than steeper slopes although lateral spreads may occur where the ground has become water-saturated and is deeply incised by gullies.

Unstable or potentially unstable slopes are hazardous because man-caused changes in the land surface can cause unexpected slope movements. Frequently this can result in considerable expense for many kinds of land developments or land uses.



LOW EROSION-SUSCEPTIBILITY AREA: Area where modern erosion is minimal because surficial materials are thin, well indurated, or composed of exposures of resistant bedrock. These areas usually are underlain by caprock that forms mesa-tops and/or are underlain by thin, indurated gravels composed predominantly of cobble to boulder-size clasts indurated by caliche, or are exposures of resistant bedrock. In many locations stream bottomlands are aggrading by deposition of sediment produced by accelerated modern erosion in uplands. This aggradation locally raises stream base level. Extensive stream-bottomland areas are indicated by the marshland symbol.

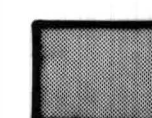
Many low erosion-susceptibility areas are characterized by materials that are difficult to excavate and by poorly defined surface drainage. These factors result in added expense for construction, drainage control, and sewage disposal. Additionally, low-lying areas near streams are usually not difficult to excavate but they are subject to occasional flooding and deposition of sediment. Flooding can damage buildings and roads and accumulations of sediment can divert flood water locally, interrupt or damage drainage-control structures, and damage or destroy roads and utilities.



MODERN ACCELERATED-EROSION AREA: Area undergoing gullying or sheet erosion that appears to be accelerated or aggravated presently by overgrazing, poor construction practices, vegetation removal or disturbance, or dams and other man-made changes in surface drainage. This erosional condition may be attributed to one or a combination of these causative factors. Erosion tends to be most pronounced on slopes where surficial materials consist of 1 to 5 m of poorly consolidated, sparsely vegetated soil and weathered-rock material (regolith), colluvium or alluvium derived from the sandy, arkosic, poorly indurated rocks of the Dawson Formation. Susceptibility to erosion apparently is not directly dependent on slope. However, gully erosion is more common on steeper slopes or adjacent to or in drainage courses; sheet erosion is usually restricted to gently sloping areas where grass cover is sparse. Gullies are shown on the map as open (patternless) areas that nearly always coincide with places where drainage is poorly developed.



Hazards in modern-erosion areas result from excessive removal or deposition of sand, silt, and clay. These materials can clog or block (siltate) drainage-control structures, damage or destroy vegetation cover, or be responsible for excessive maintenance cost for buildings, utilities, and roads. Erosional effect can severely damage the land surface necessitating costly rehabilitation work prior to use of the land for agriculture or residential development. Moreover, intensive land uses such as residential development can aggravate or increase erosion such that lessening of its effects on adjacent land may be difficult or impossible. Gullies frequently undercut unstable or potentially unstable slopes causing local small slope failures. This condition of slope instability is so common in most areas that any slope directly above a modern gully should be considered suspect with respect to its slope stability.

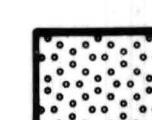


MODERATE-TO-HIGH EROSION-SUSCEPTIBILITY AREA: Area where potential for erosion to occur is moderate to high because of slope, composition (arkosic grit, sandstone, claystone, and surficial deposits derived from these rocks), or poor consolidation of surficial materials, sparse vegetation cover, and proximity and similarity to areas already undergoing accelerated modern erosion. Many parts of the mapped areas are in a state of imminent accelerated erosion because of widespread overgrazing, extensive areas of small-scale surficial slope failure (soil creep), surface modification by roads and drainage-diversion or impoundment structures (dams), and vegetation damage caused by off-road vehicles and other intensive human activities.

Prediction of the amount or degree of erosion-related damage that may occur in a given area is not implied in the definition of this mapping unit. The map boundaries for areas so mapped are generalized because the degree of erosion susceptibility in a given area is as dependent on effects of man-made land-surface modifications as it is on natural conditions. In many areas, susceptibility to erosion lessens with decreased slope, increased distance from drainage courses, and increased degree of consolidation of surficial materials.

The coincidence of moderate-to-high erosion-susceptibility areas with unstable or potentially unstable slopes is due, in part, to increases in permeability caused by ground cracks resulting from slope movement and decreases in compaction of surficial materials. In many places it is apparent that erosion and slope movement(s) are related processes and one may be the initiating process that activates the other.

The most important hazard-related factors in these areas are erosion and deposition of sediment, damage to vegetation, and increased maintenance costs of roads, drainage-control structures, buildings, and utilities. Erosion can be a severe esthetic and feasibility problem for planning many kinds of developments.



DEBRIS-FLOW AREA: Area susceptible to occasional rapid movement of slurry-like mixtures of soil and rocks, incorporated woody debris, and water. Debris movement initiates typically as rockfalls, rockslides, and/or debris avalanches and debris slides. These slope movements are coincident with intense rainstorms that occur during the late spring and summer. This rapidly moving debris is typically capable of moving considerable distances downward and outward onto adjacent moderately to gently sloping areas (20 to 0-percent slopes). Depending primarily on the drainage development in the debris flow area, debris flows can either be confined to drainage channels or spread over relatively large areas before debris movement ceases. Debris movement during a given debris-flow event is very difficult to predict because of minor topographic irregularities, variable amounts of debris mobilized during a rainstorm, and diversion of debris flow(s) by variations in channel geometry and/or effects of material already present in channels. Additionally, man-made land-surface changes can significantly alter the potential for debris flowage in some areas. Debris-flow deposits of various ages occur in the mapped debris-flow hazard areas. The age of these debris-flow events ranges from occurrences during this century and the past two decades to some that probably occurred a few thousand years ago. All of these areas are underlain by deposits of unquestionably debris-flow origin or have physiography clearly indicative of such deposits.

Hazards in debris-flow areas result from sudden impact by moving debris that injures people and damages or destroys buildings, utilities, and roads. In some cases, defense structures or other measures can reduce hazards considerably, possibly to acceptable levels.

NOTE: Other hazards and discussion of individual hazard areas are indicated by notes on the map.

Reference

Rogers, W. P., and others, 1974, Guideline and criteria for identification and land-use controls of geologic hazard and mineral resource areas; Colorado Geol. Survey Spec. Pub. 6, 146 p.

GEOLOGIC HAZARDS FOR COMMON LAND USES

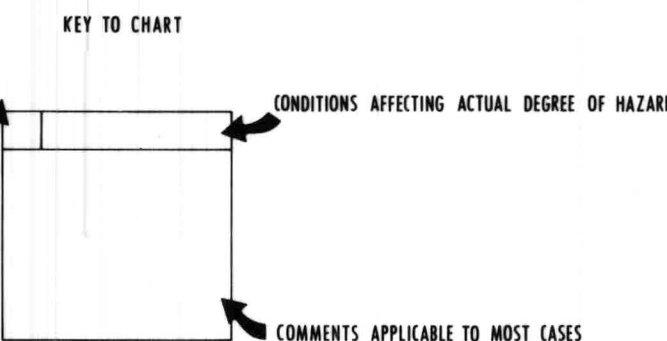
LAND - USE

ACTIVITY

	Road construction	Road maintenance	Utilities - installation & maintenance	Low density single family residential development (<1.4 a./5 acres)	Medium density single family residential development (1.4 a./5 acres to 1.4 a./2 acres)	High density single family residential development (<1.4 a./2 acres)	Multi-family housing (townhouses & apartments)	Industrial and commercial development	Agriculture and grazing	Subsurface fluid extraction (water and oil and gas)	Mining and quarrying	Septic sewage disposal	Solid waste disposal
Landslide area	4 ABCDEFHJK	4 CEFHJK	3 CEFHJK	3 ABCDEFHJK	3 ABCDEFHJK	3 ABCDEFHJK	3 ABCDEFHJK	3 ABCDEFHJK	1 BCDHJKL	1 JKL	2 ABCDFH	3 ABCDFH	2 BCDEFH
Unstable or potentially unstable slope	3 ABCDEFHJKL	2 CDEFHJK	2 CEFHJK	2 ABCDEFHJKL	2 ABCDEFHJK	2 ABCDEFHJK	2 ABCDEFHJK	2 ABCDEFHJK	0 BCDHJKL	1 JKL	1 ABCDF	2 ABCDFH	1 BCDEFH
Rockfall/rockslide debris-avalanche area	2 ACEFGK	3 CFG	4 CFG	4 ABCDEFGK	4 ABCDEFGK	5 ABCDEFGK	5 ABCDEFGK	5 ABCDEFGK	0 BCFEFGK	2 CG	1 ACG	4 K	2 K
Mudflow debris flow area	1 DFGK	2 DFG	2 DFGK	4 FGKLN	4 FGKLN	5 FGKLN	5 FGKLN	4 FGKLN	1 FGN	1 FG	1 FG	4 FG	4 K
Subsidence area	2 L	2 L	2 L	4 L	4 K	5 K	5 K	5 K	1	2 L	1	2 K	1 L
Modern accelerated erosion area	3 ABCDFGK	3 BCDFGK	3 ABCDFGK	2 ABCDFGK	4 ABCDFGK	4 ABCDFGK	4 ABCDFGK	3 ABCDFGK	2 BCDFGK	1 CDFGL	1 CDFGL	1 M	1 M
Unstable or potentially unstable slope	2 ABCDFGK	2 BCDFGK	2 ABCDFGK	2 ABCDFGK	2 ABCDFGK	2 ABCDFGK	2 ABCDFGK	2 ABCDFGK	2 BCDFGK	1 CDFGL	1 CDFGL	1 M	1 KM
Low erosion potential area	3 DF	1 D	3 DK	3 DL	2 DX	2 DX	2 DX	2 DX	0 L	1 L	1 L	4 DK	4 DK

Explanation of Chart Symbols

KEY TO CHART



DEGREE OF HAZARD

0	1	2	3	4	5
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COMMENTS APPLICABLE TO MOST CASES

CONDITIONS AFFECTING HAZARD

A	B	C	D	E	F
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Index of 7 1/2' Quadrangle Sheets in Douglas County

1 Littleton	6 Sedalia	11 Castle Rock South
2 Highlands	7 Castle Rock North	12 Russellville Gulch
3 Parker	8 Ponderosa Park	13 Larkspur
4 Piney Creek	9 Devils Head	14 Greenland
5 Kessler	10 Dawson Butte	15 Cherry Valley School

PLATE 16 of 16

Drafted by: Susan J. Soukup