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GEOLOGICAL SURVEY

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# Maps of Alluvial Valley Floors and Strippable Coal in Forty-two 7 1/2-minute Quadrangles, Big Horn, Rosebud, and Powder River Counties, Southeast Montana

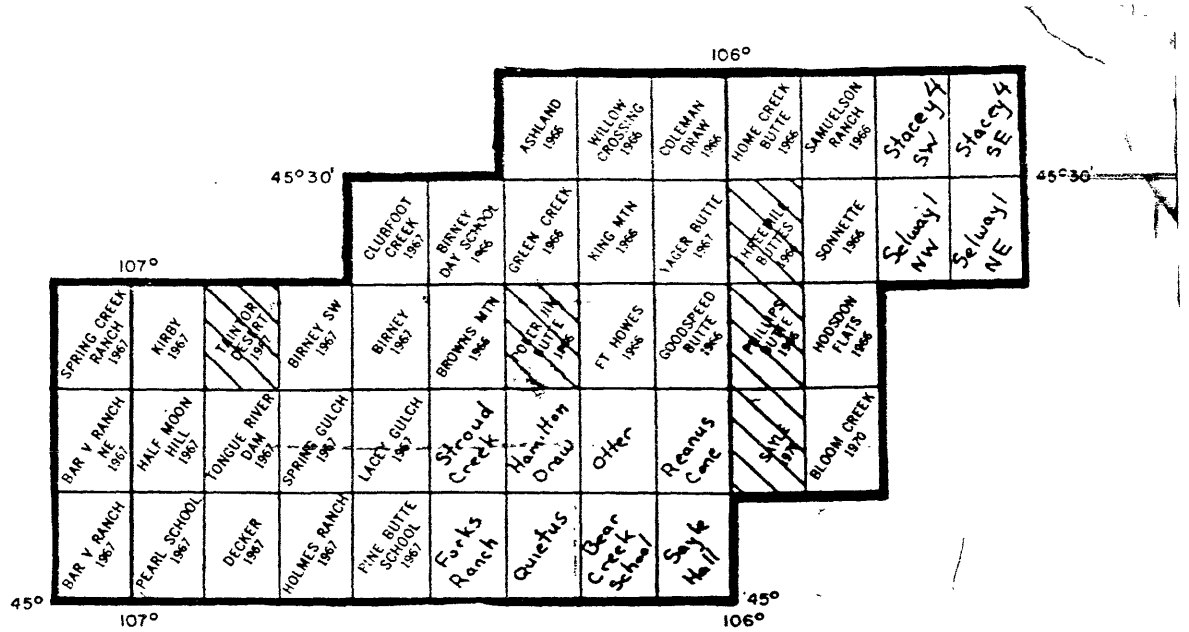
By

Harold E. Malde and J. Michael Boyles

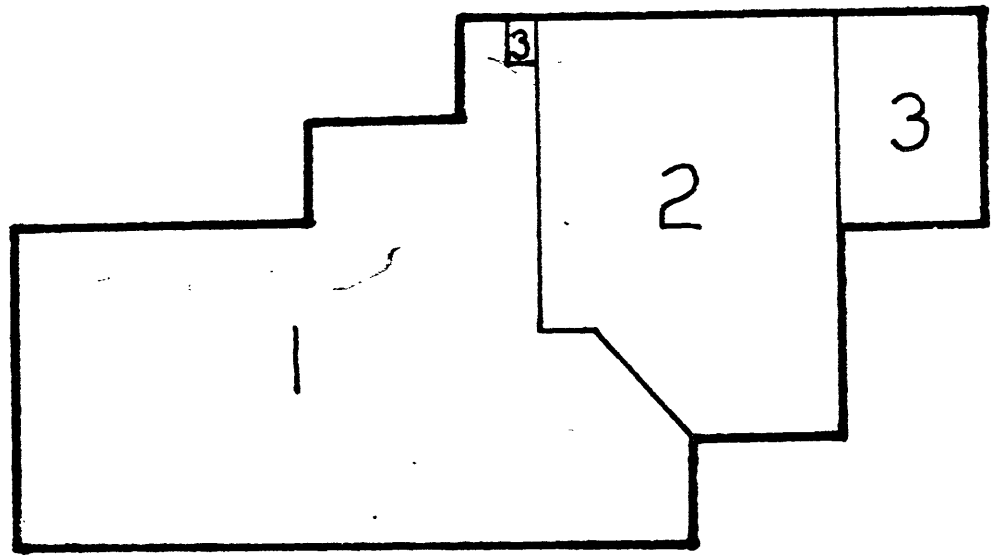
Open-File Report 76-162

1976

This report is preliminary and has not been edited or reviewed for conformity with U.S. Geological Survey standards.




INDEX TO QUADRANGLE MAPS OF THIS REPORT. Patterned quadrangles have no identified alluvial valley floors




INDEX TO AERIAL PHOTOGRAPHS USED IN FIELD MAPPING OF ALLUVIAL VALLEY FLOORS

1. Environmental Protection Agency, scale 1:40,000, taken 1973.
2. U.S. Department of Agriculture, Forest Service, scale 1:15,840, taken 1962.
3. U.S. Department of Agriculture, Soil Conservation Service, scale 1:20,000, taken 1954.

76-162

# MAPS OF ALLUVIAL VALLEY FLOORS AND STRIPPABLE COAL IN FORTY-TWO 7 1/2-MINUTE QUADRANGLES, BIGHORN, ROSEBUD, AND POWDER RIVER COUNTIES, SOUTHEAST MONTANA

By

Harold E. Malde and J. Michael Boyles

## EXPLANATION

Areas of alluvial valley floor where width along valley exceeds 25 ft (8 m)--Includes stream channel, flood plain, and low alluvial terrace deposits. May be sub-irrigated by underflow of near-surface water or irrigated by diversion of flood flow. Alluvial terraces generally not higher than 5 ft (1.5 m) above channel floor of small streams but as much as 8 ft (2.5 m) high along principal streams. Terraces have distinct boundaries along bordering alluvial fans and colluvium, either at a step a few feet (about 1 m) high or, less commonly, along a line at which the ground surface begins to slope upward. Vegetation dominantly grass; mixed with silver sagebrush (Artemisia cana) along small streams and in the upper reaches of large streams. Greasewood (Sarcobatus) and big sagebrush (A. tridentata) are absent or rare. Typically used for growing hay, in places with supplemental irrigation. Noncultivated areas currently used for pasturage have potential for hay production. Mapped within Crow Indian Reservation only where continuous with alluvial valley floor beyond reservation boundary

Area of high alluvial valley floor incised by narrow sinuous channel as deep as 12 ft (4 m)--Forms nearly flat alluvial terrace of low gradient above lower alluvial valley floor mapped elsewhere along Mispah Creek in Stacey 4 SE quadrangle. Mostly used for growing hay, in places with supplemental irrigation

Areas of strippable coal--Mapped where maximum overburden thickness is 150-250 ft (46-76 m), depending on thickness of underlying coal. Area commonly includes more than one bed of strippable coal. Straight lines across some valleys mark limits for calculating coal reserves. Not mapped on Indian lands. Mapped by Matson and Blumer (1973)

U/D FAULT--Dashed where inferred; dotted where concealed. U, upthrown side; D, downthrown side. Mapped by Matson and Blumer (1973)

## REFERENCE

Matson, R. E., and Blumer, J. W., 1973, Quality and reserves of strippable coal, selected deposits, southeastern Montana, with analytical data by L. A. Wegelin: Montana Bur. Mines and Geology Bull. no. 91, 135 p.

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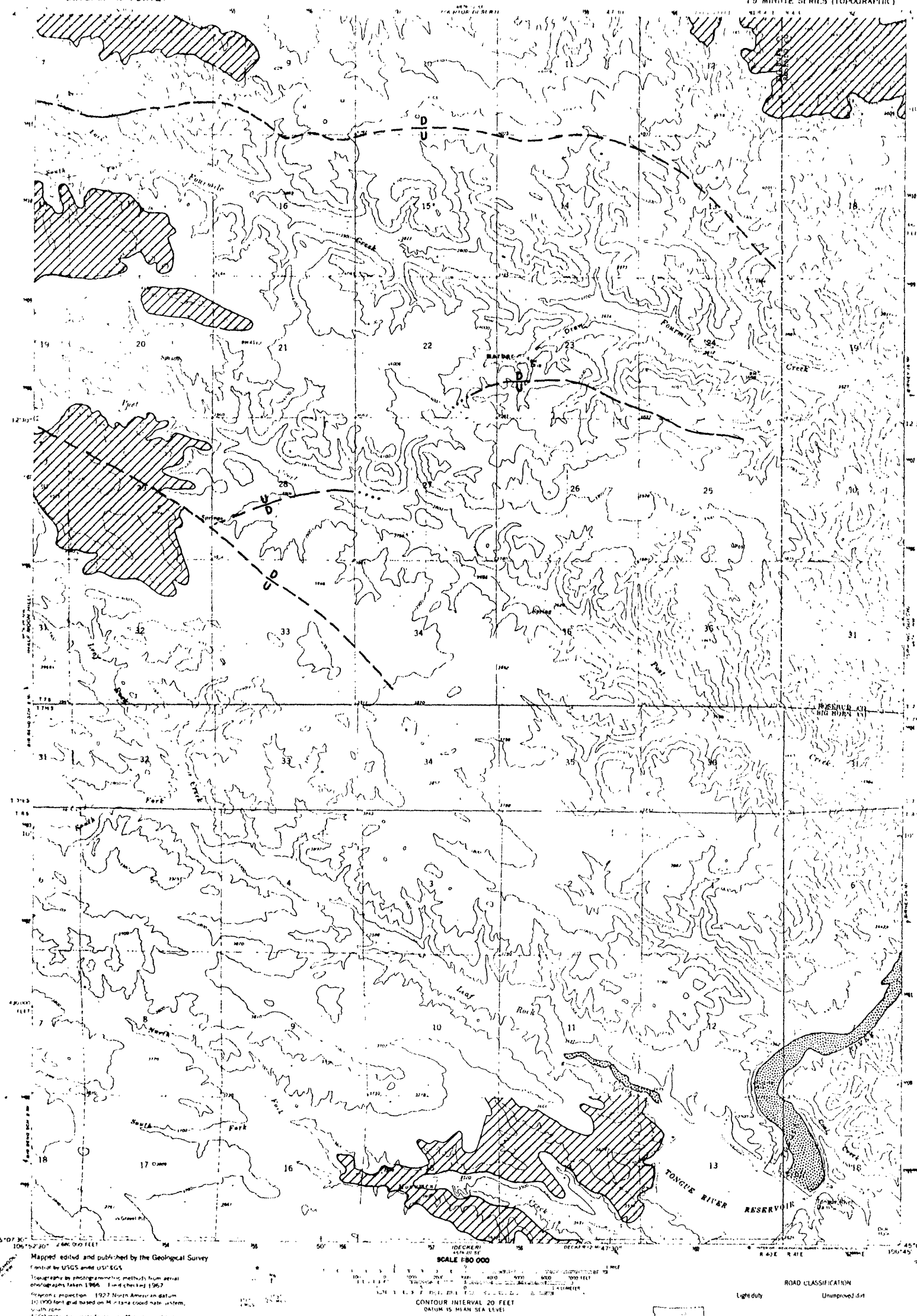
TONGUE RIVER DAM QUADRANGLE
MONTANA
7.5 MINUTE SERIES (TOPOGRAPHIC)




Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1966. Field checked 1967

Projection: 1927 North American datum
10,000-foot grid based on Montana coordinate system, south zone
1,000-meter Universal Transverse Mercator grid ticks, zone 13, shown in blue

SCALE 1:24 000

CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

ROAD CLASSIFICATION
Light duty — Unimproved dirt

MONTANA
QUADRANGLE LOCATION

TONGUE RIVER DAM, MONT.
NW/4 Wibaux 7.5' quadrangle
1967
AMS 4074 III NE—SERIES V834

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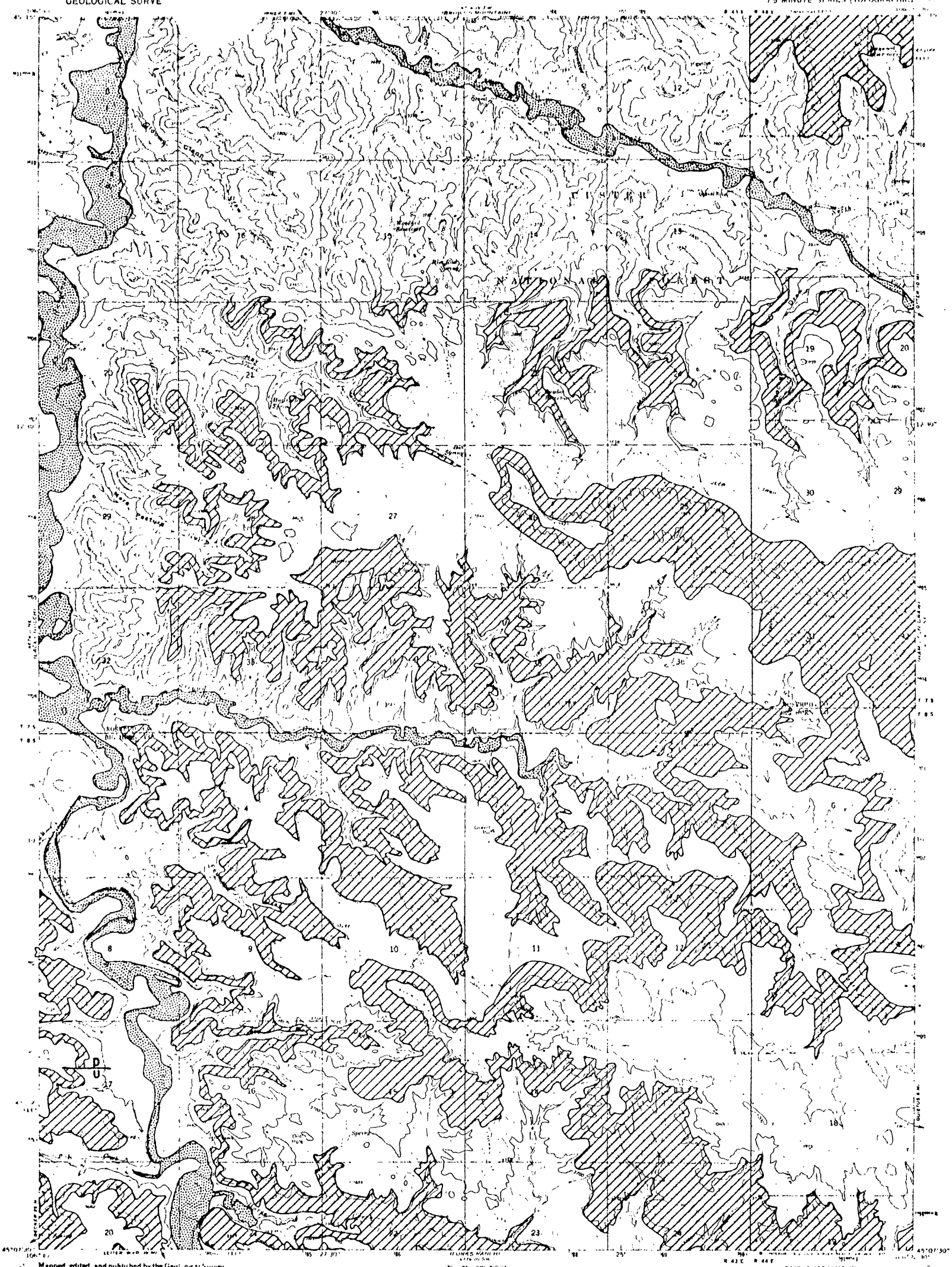
STROUD CREEK QUADRANGLE
MONTANA
7.5 MINUTE SERIES (TOPOGRAPHIC)



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Topography by photogrammetric methods from aerial photographs taken 1970. Field checked 1972

Projection and 10 000-foot grid ticks: Montana coordinate system, south zone (Lambert conformal conic) 1000-meter Universal Transverse Mercator grid ticks, zone 13, shown in blue. 1927 North American datum

Fine red dashed lines indicate selected fence lines

SCALE 1:62,500

CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

MONTANA
QUADRANGLE LOCATION

ROAD CLASSIFICATION

| | |
|---|---|
| Primary highway, hard surface | Light-duty road, hard or improved surface |
| Secondary highway, hard surface | Unimproved road |

Interstate Route  U.S. Route  State Route

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STROUD CREEK, MONT.
N4507.5—W10622.5/7.5
1972

AMS 4774 IV NW—SERIES V884

76-102

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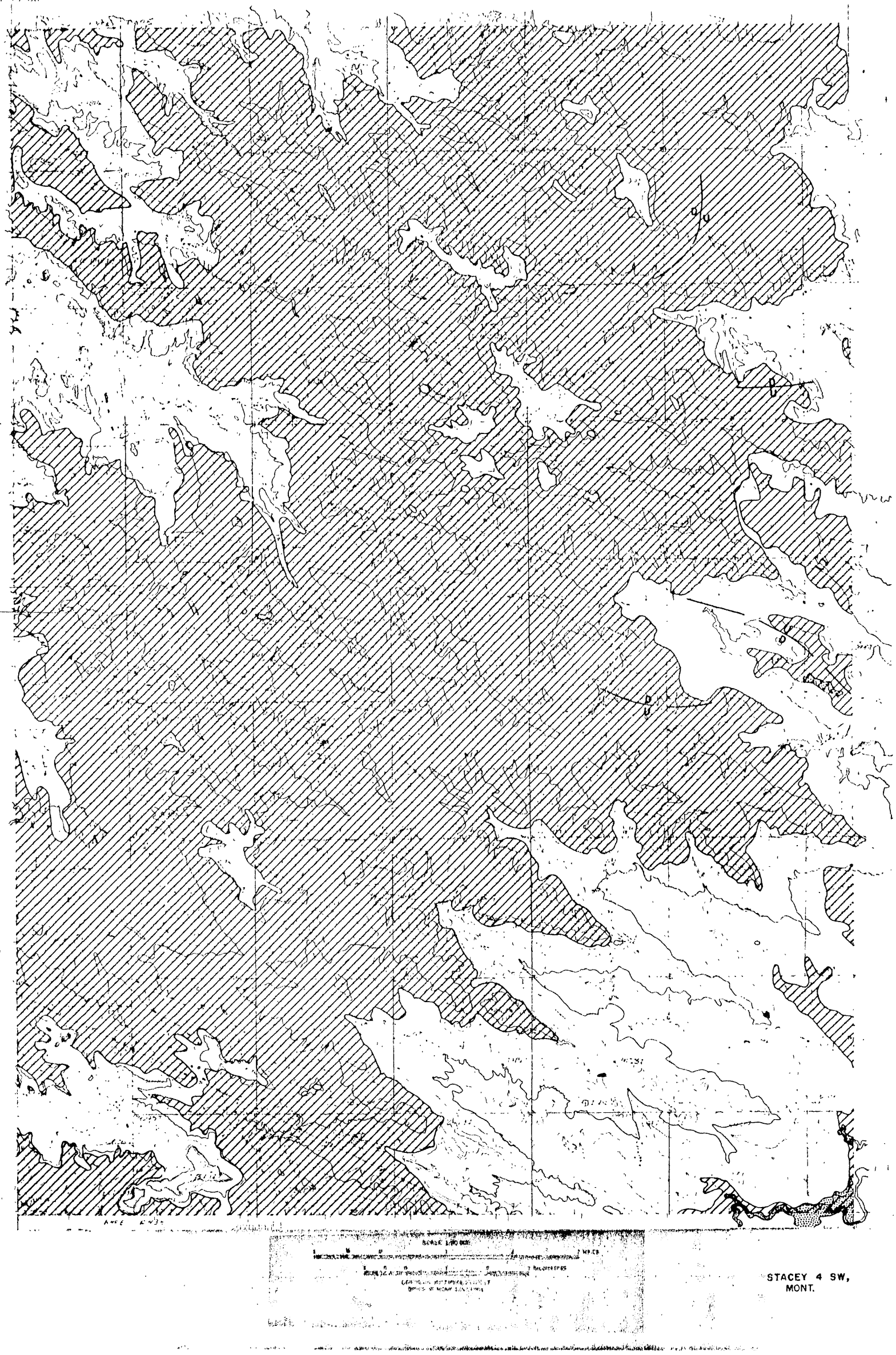
SUBJECT TO CORRECTION



STACEY 4 SW,
MONT.

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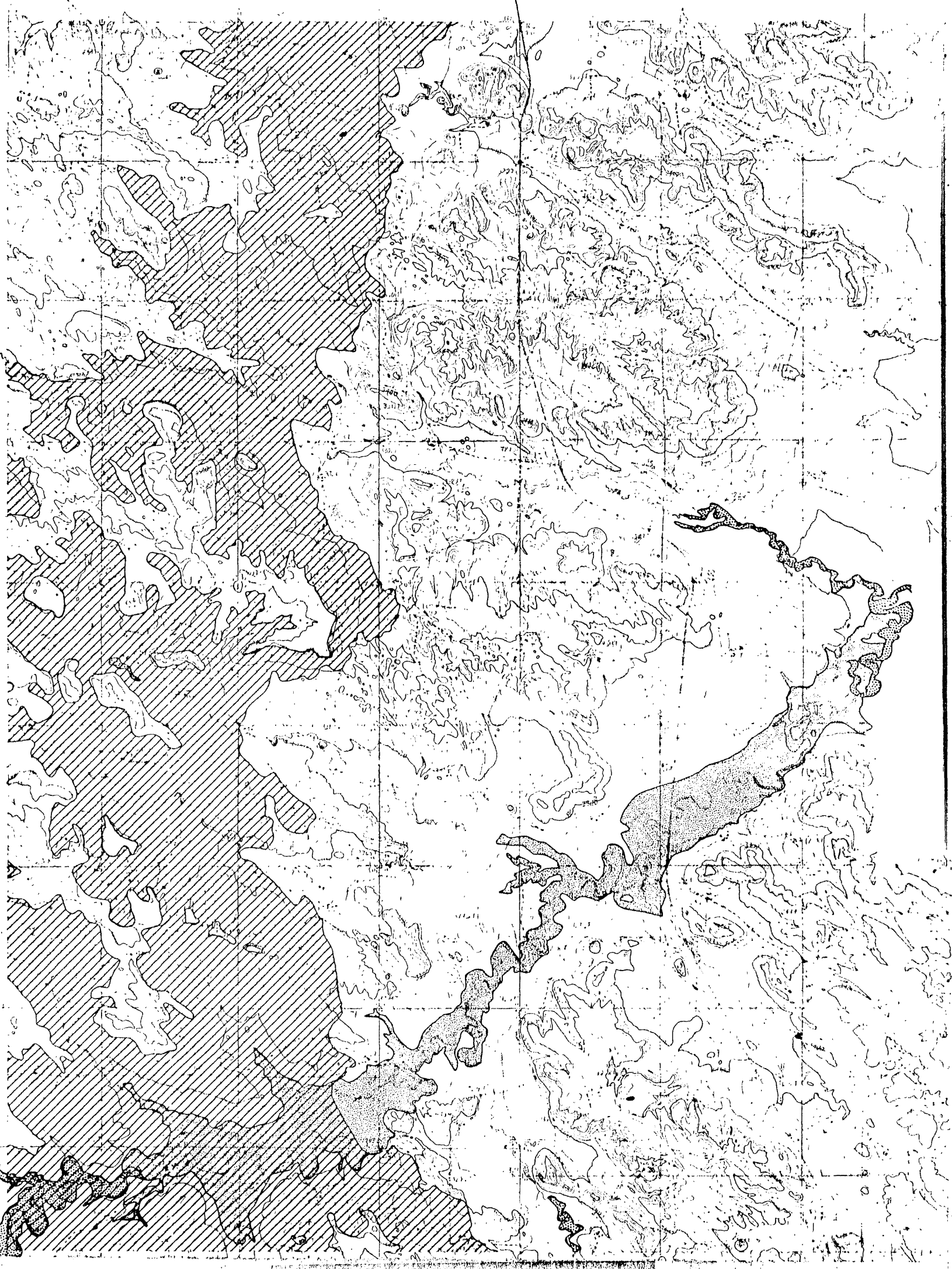
ADVANCE PROOF
SUBJECT TO CORRECTION



STACEY 4 SE,
MONT.

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SPRING CREEK RANCH QUADRANGLE
MONTANA BIG HORN CO
7.5 MINUTE SERIES (TOPOGRAPHIC)

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Topography by photogrammetric methods from aerial photographs taken 1966. Field checked 1967

Polyconic projection. 1927 North American datum
10,000-foot grid based on Montana coordinate system, south zone
1000-meter Universal Transverse Mercator grid ticks, zone 13, shown in blue

Fine red dashed lines indicate selected fence lines

UTM GRID AND 1967 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 MILE

1 KILOMETER

CONTOUR INTERVAL 40 FEET
DATUM IS MEAN SEA LEVEL

ROAD CLASSIFICATION

Light duty ........ Unimproved dirt

MONTANA

QUADRANGLE LOCATION

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SPRING CREEK RANCH, MONT
N4515—W10700/7.5

1967

AMS 4874 I SE - SERIES V894

76-162

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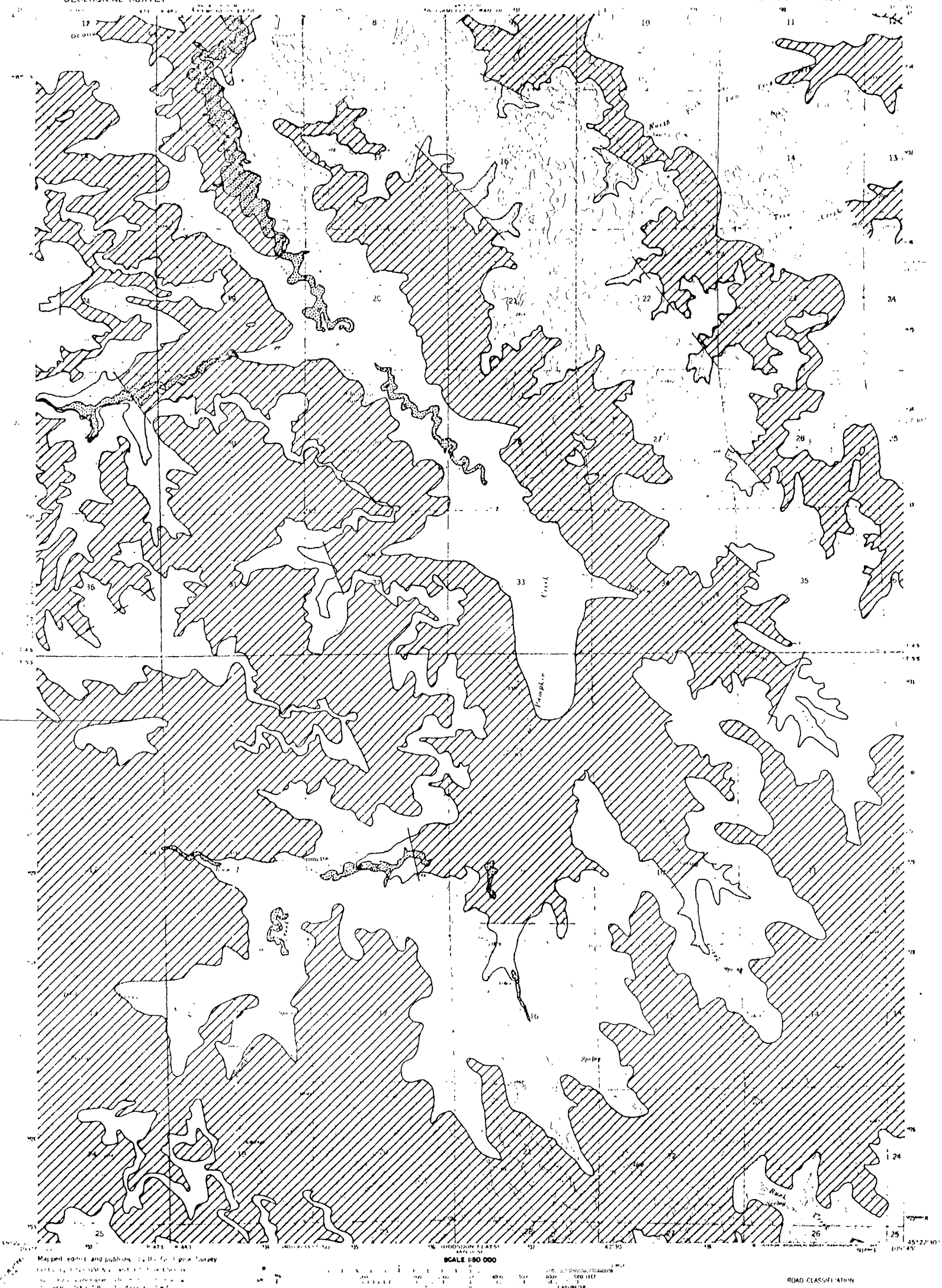
SONNETTE QUADRANGLE
MONTANA POWDER RIVER CO
7.5 MINUTE SERIES (TOPOGRAPHIC)



Mapped, edited and published by the Geological Survey

SCALE 1:50 000

CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

ROAD CLASSIFICATION

Light-duty — Unimproved dirt

MONTANA
QUADRANGLE LOCATION

SONNETTE, MONT.
N4522.5—W10452.5/7.5
1966
AMS 4874 IV NE—SERIES V894

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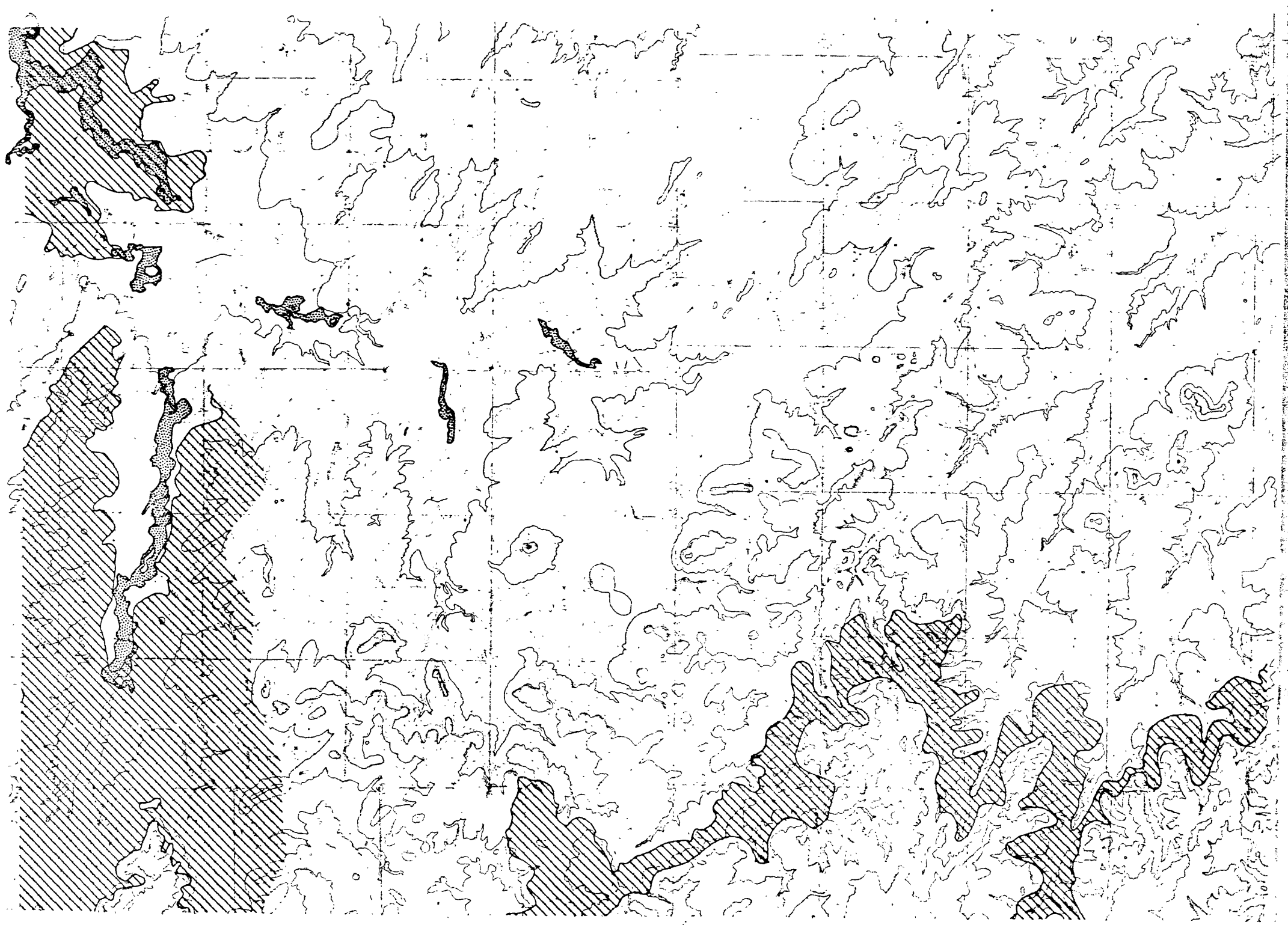

SELWAY 1 NW,
MONT.

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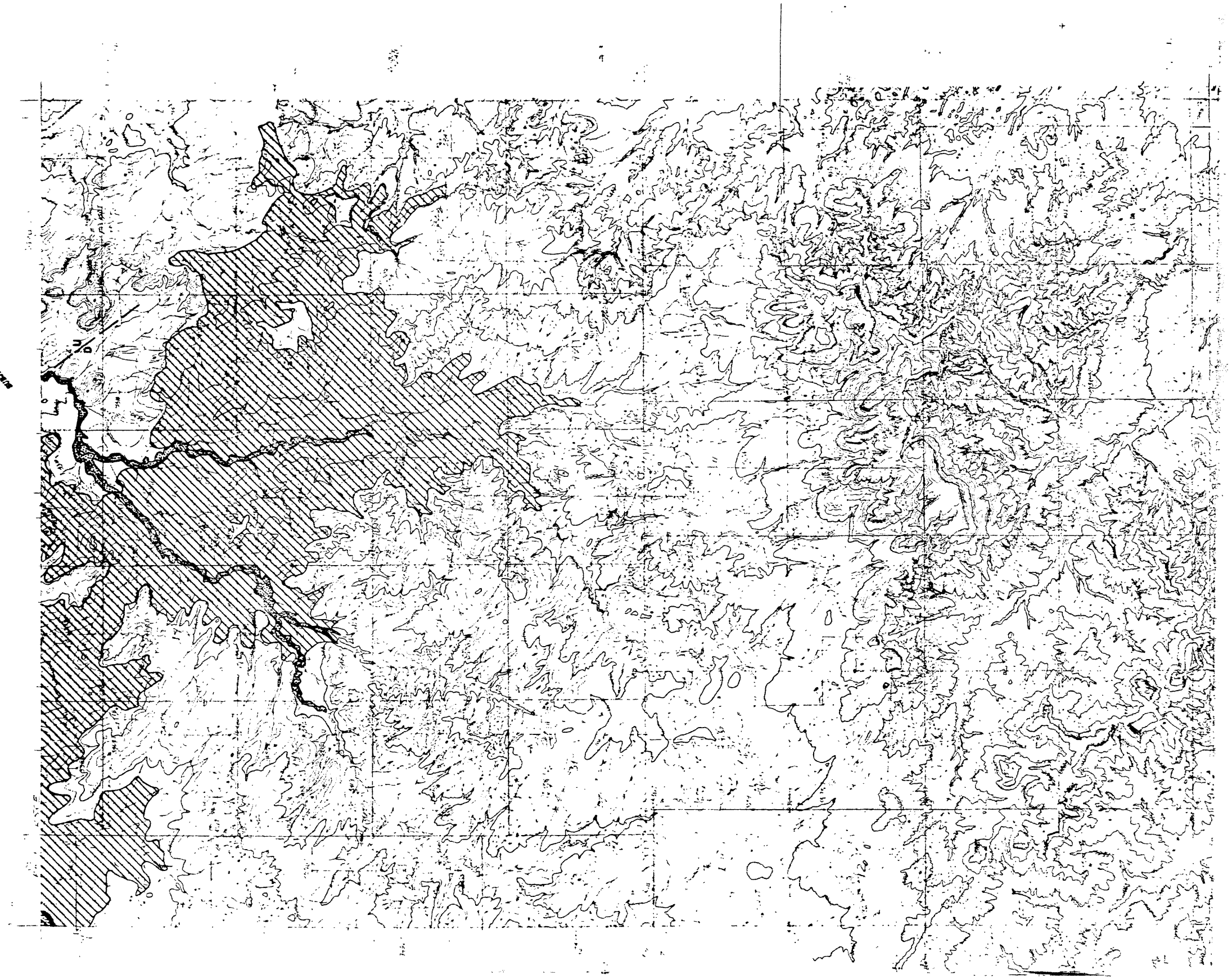

SELWAY I NE,
MONT.

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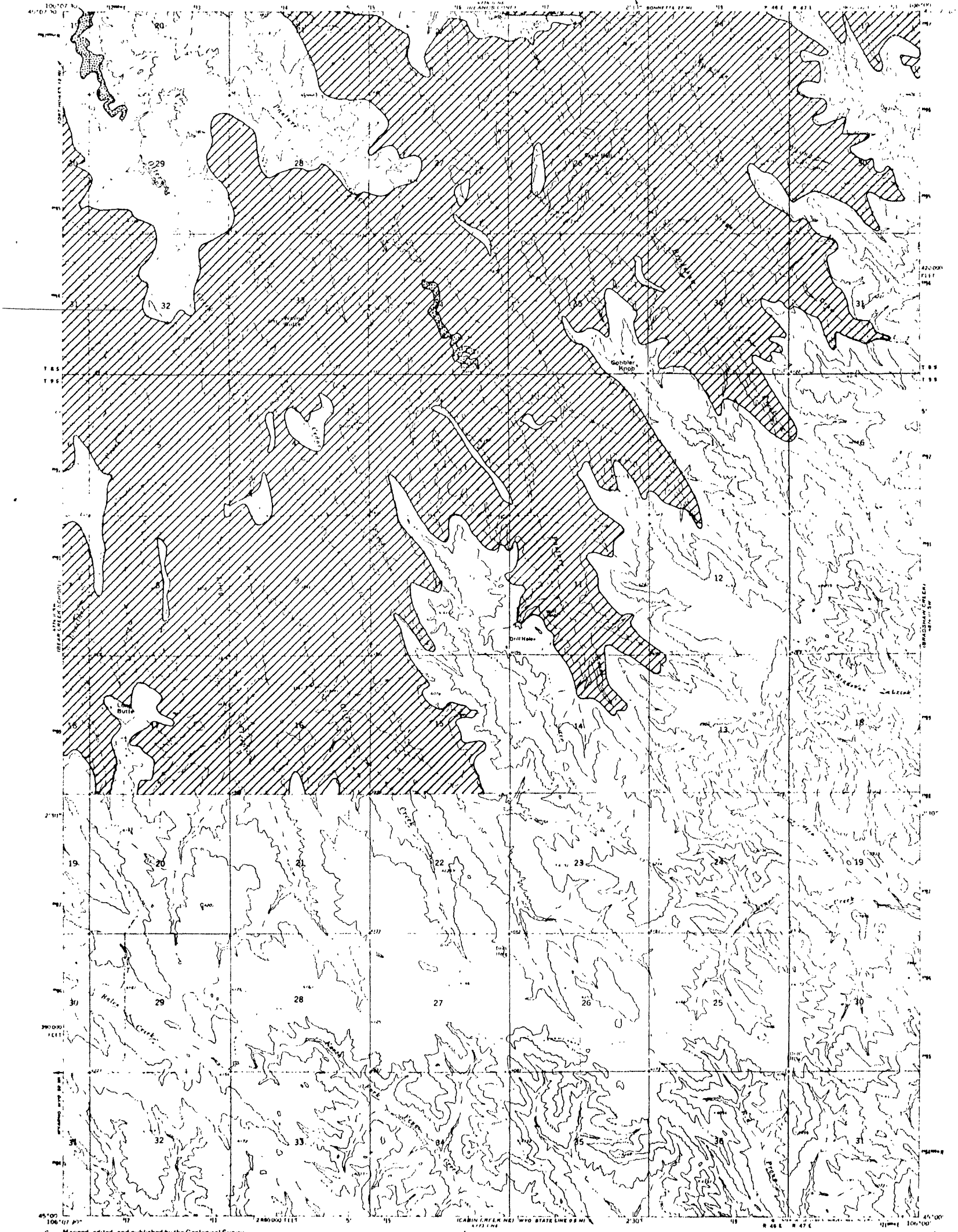
SAYLE HALL QUADRANGLE
MONTANA-POWDER RIVER CO
7.5 MINUTE SERIES (TOPOGRAPHIC)

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Topography by photogrammetric methods from aerial photographs taken 1970. Field checked 1972

Projection and 10 000-foot grid ticks: Montana coordinate system, south zone (Lambert conformal conic)
1000-meter Universal Transverse Mercator grid ticks, zone 13, shown in blue. 1927 North American datum

Fine red dashed lines indicate selected fence lines

CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

ROAD CLASSIFICATION

| | |
|---|---|
| Primary highway hard surface | Light duty road, hard or improved surface |
| Secondary highway hard surface | Unimproved road |

Interstate Route  U.S. Route  State Route

QUADRANGLE LOCATION

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SAYLE HALL, MONT.
N4500—W10600/7.5
1972

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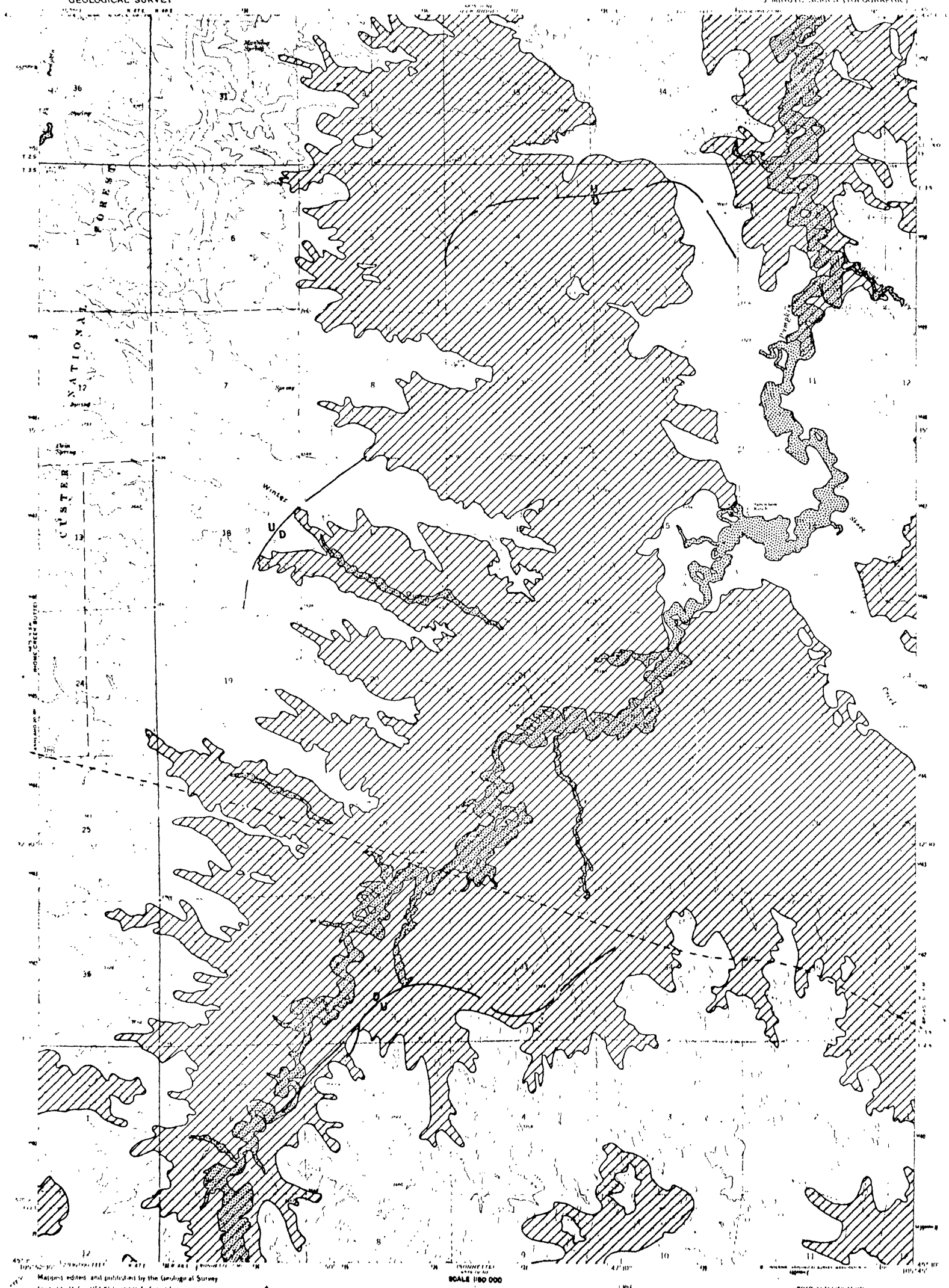
SAMUELSON RANCH QUADRANGLE
MONTANA-POWDER RIVER CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)




Mapped, edited, and published by the Geological Survey

SCALE 1:50 000

CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

ROAD CLASSIFICATION

Medium duty — — — Light duty
Unimproved dirt
U.S. Route

QUADRANGLE LOCATION

SAMUELSON RANCH, MONT.
N4500-W10545/7.5
1966

AMS 4975 III SE SERIES V894

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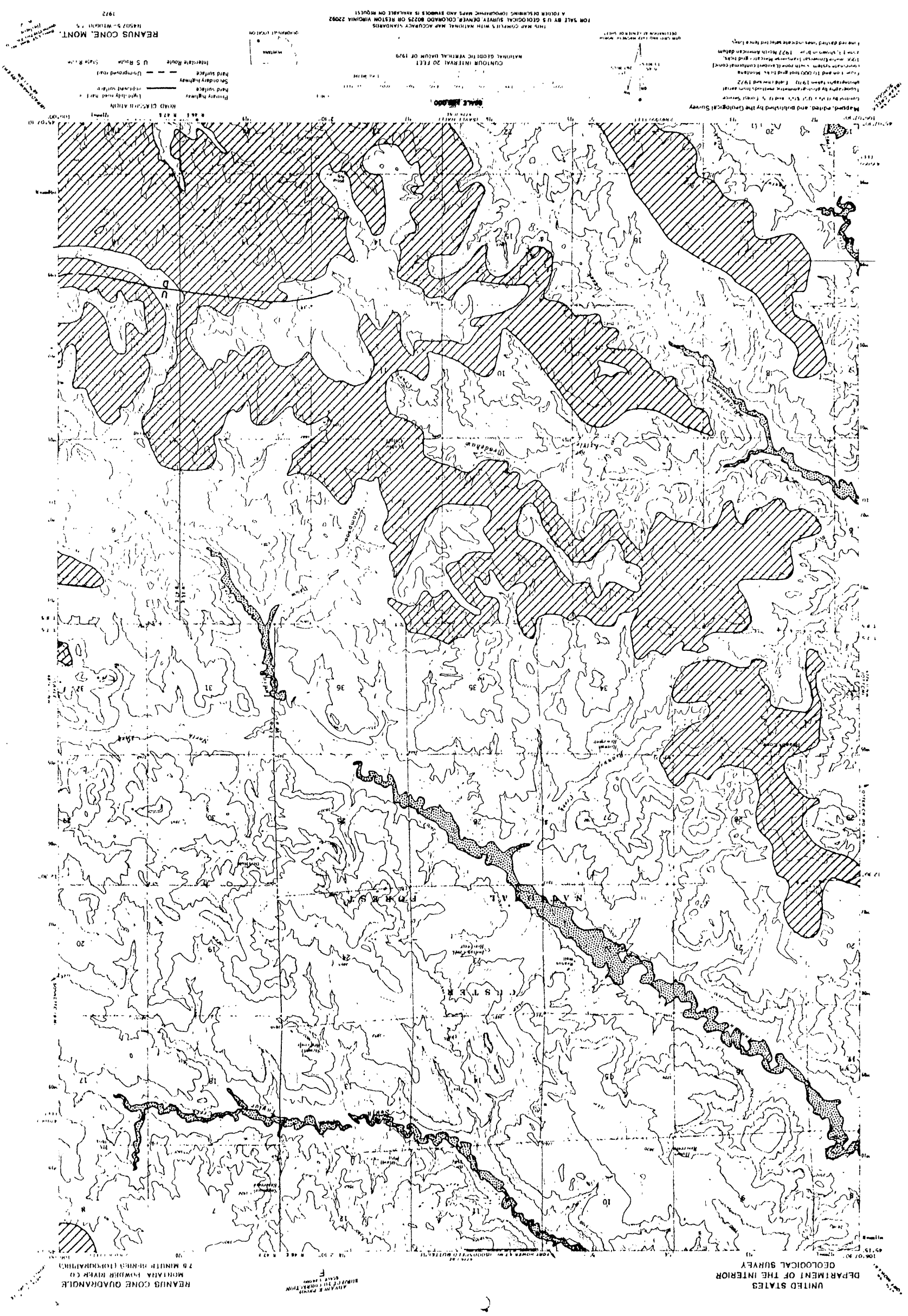
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
REANUS CONE QUADRANGLE
MONTANA-POWDER RIVER CO
7.5 MINUTE SERIES (TOPOGRAPHIC)
REANUS CONE, MONT.
N4507.5-W10600/7.5
1972
ROAD CLASSIFICATION
Primary highway
Hard surface
Secondary highway
Hard surface
Light-duty road, hard or improved surface
Unimproved road
Interstate Route
U.S. Route
State Route
CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929
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Topography by photogrammetric methods from aerial photographs taken 1970. Field checked 1972
Polyconic projection. 1927 North American datum
10,000-foot grid based on Montana coordinate system, south zone (Lambert conformal conic)
1000-meter Universal Transverse Mercator grid ticks, zone 13, shown in blue
Fine red dashed lines indicate selected fence lines
UTM GRID AND 1972 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET
MONTANA
QUADRANGLE LOCATION
SCALE 1:24,000
1 MILE
1 KILOMETER
CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

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ADVANCE PRINT
SUBJECT TO CORRECTION
SCALE 1:24 000
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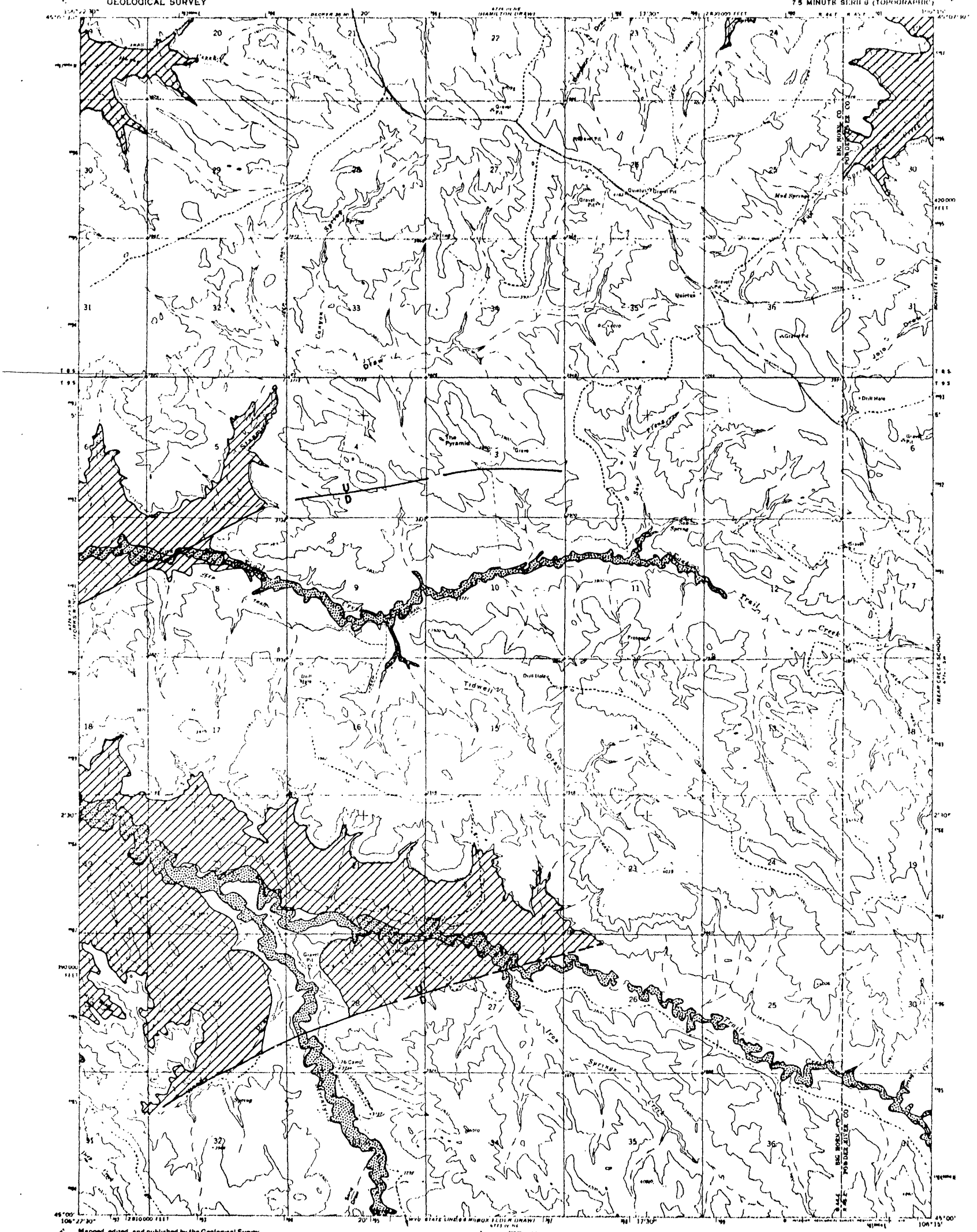
# QUIETUS QUADRANGLE
MONTANA
7.5 MINUTE SERIES (TOPOGRAPHIC)

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Topography by photogrammetric methods from aerial photographs taken 1970. Field checked 1972

Projection and 10,000 foot grid ticks: Montana coordinate system, south zone (Lambert conformal conic) 1000 meter Universal Transverse Mercator grid ticks, zone 13, shown in blue. 1927 North American datum

Fine red dashed lines indicate selected fence lines

UTM GRID AND 1972 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

MONTANA
QUADRANGLE LOCATION

ROAD CLASSIFICATION

| | |
|---|---|
| Primary highway hard surface | Light duty road, hard or improved surface |
| Secondary highway hard surface | Unimproved road |

( ) Interstate Route ( ) U.S. Route ( ) State Route

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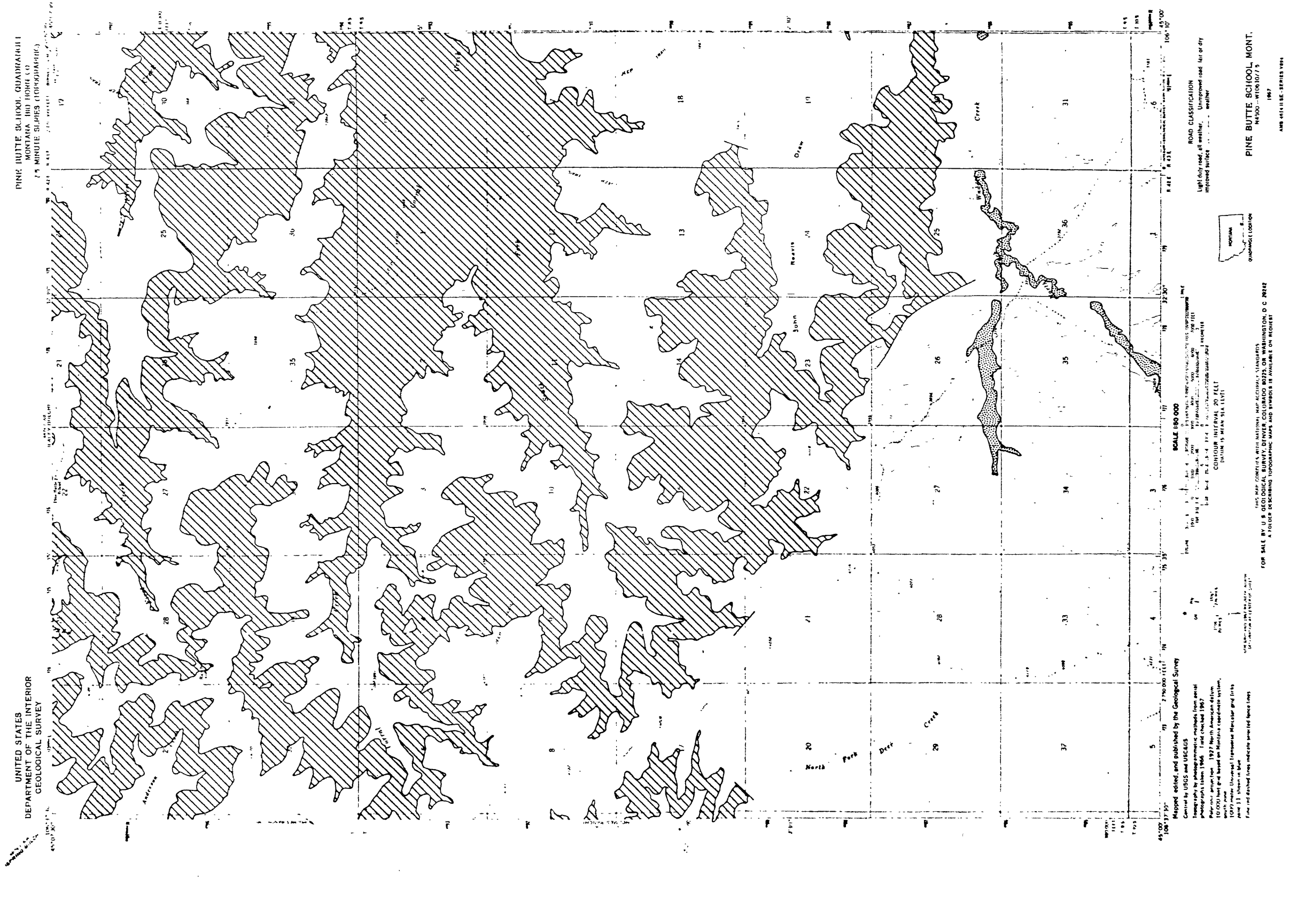
QUIETUS, MONT.
N4500—W10615/7.5
1972

AMS 4774 III SE—SERIES V894

76-162


PINE BUTTE SCHOOL QUADRANGLE
MONTANA
7.5 MINUTE SERIES (TOPOGRAPHIC)
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
PINE BUTTE SCHOOL, MONT.
N4500—W11010/7.5
1967
SCALE 1:24 000
ROAD CLASSIFICATION
Light-duty road, all weather
Unimproved road
Fair or dry weather
CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL
Mapped, edited, and published by the Geological Survey
Control by USGS and USC&GS
Topography by photogrammetric methods from aerial photographs taken 1966. Field checked 1967
Polyconic projection. 1927 North American datum
10,000-foot grid based on Montana coordinate system, south zone
1000-meter Universal Transverse Mercator grid ticks, zone 13, shown in blue
Fine red dashed lines indicate selected fence lines
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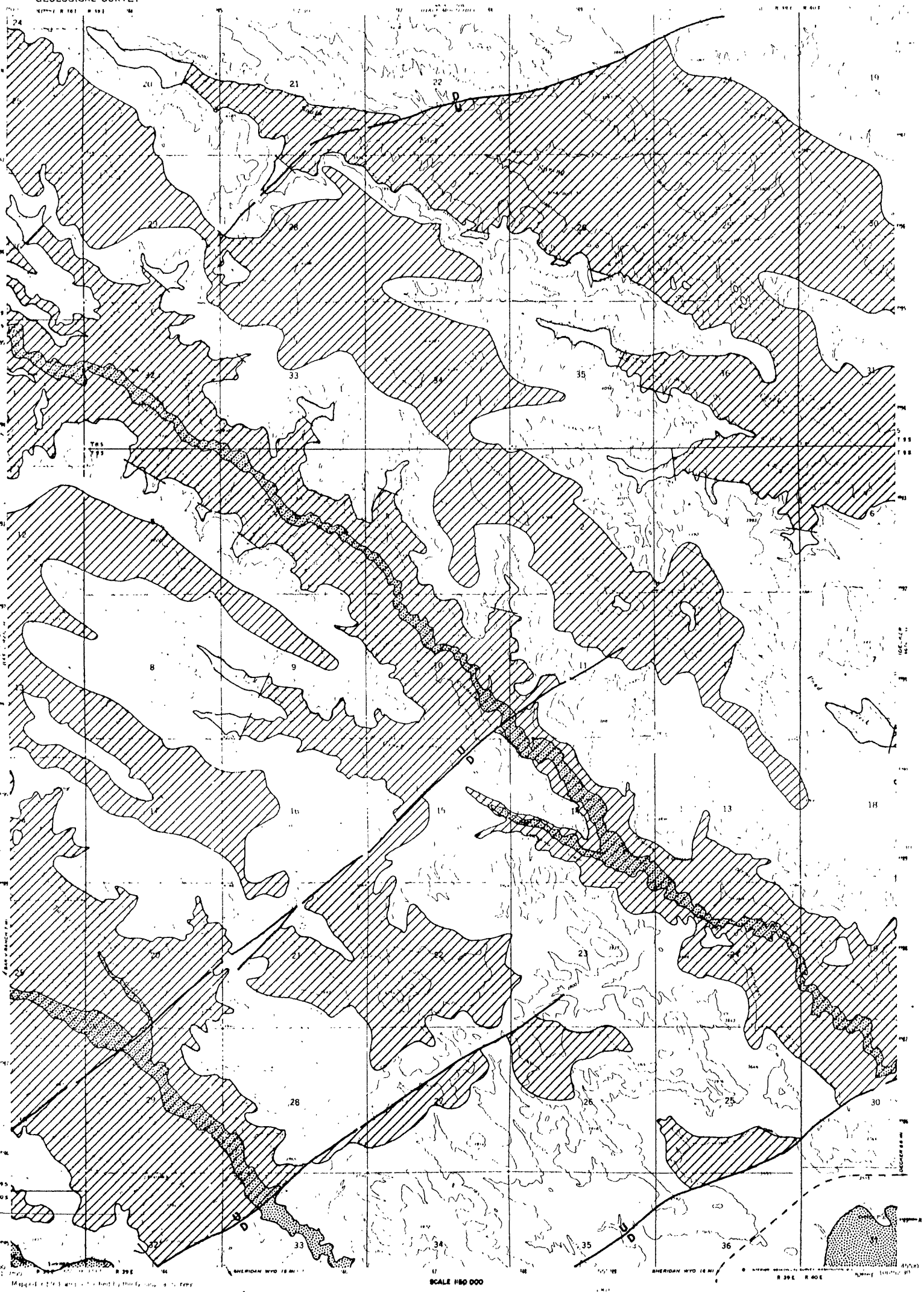
PEARL SCHOOL QUADRANGLE
MONTANA BIG HORN CO
7.5 MINUTE SERIES (TOPOGRAPHIC)



SCALE 1:50 000

ROAD CLASSIFICATION

Medium duty — — —

Unimproved dirt

MONTANA

QUADRANGLE LOCATION

PEARL SCHOOL, MONT

N4500—W10952.5/7.5

1967

AMS 4674 III SW—SERIES V844

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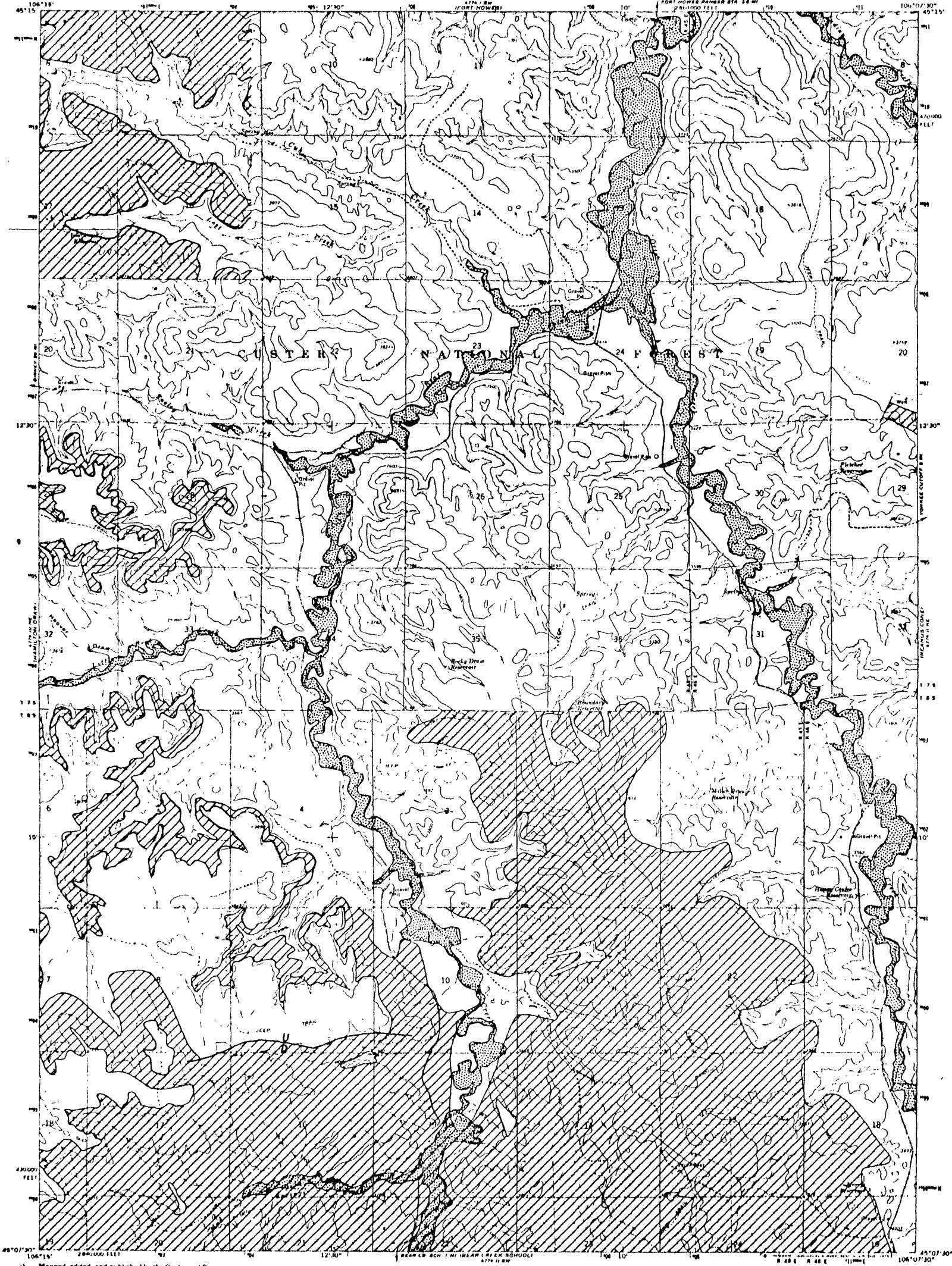
# OTTER QUADRANGLE
MONTANA POWDER RIVER CO
7.5 MINUTE SERIES (TOPOGRAPHIC)

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Topography by photogrammetric methods from aerial photographs taken 1970 Field checked 1972

Projection and 10,000 foot grid ticks Montana coordinate system, south zone (Lambert conformal conic) 1000 meter Universal Transverse Mercator grid ticks, zone 13, shown in blue 1927 North American datum

Fine red dashed lines indicate selected fence lines

UTM GRID AND 1972 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

MONTANA
QUADRANGLE LOCATION

ROAD CLASSIFICATION

Primary highway, hard surface — Light duty road, hard or improved surface
Secondary highway, hard surface — Unimproved road
( ) Interstate Route ( ) U S Route ( ) State Route

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OTTER, MONT.
N4507 6—W10607 5/7.5
1972

NOTE

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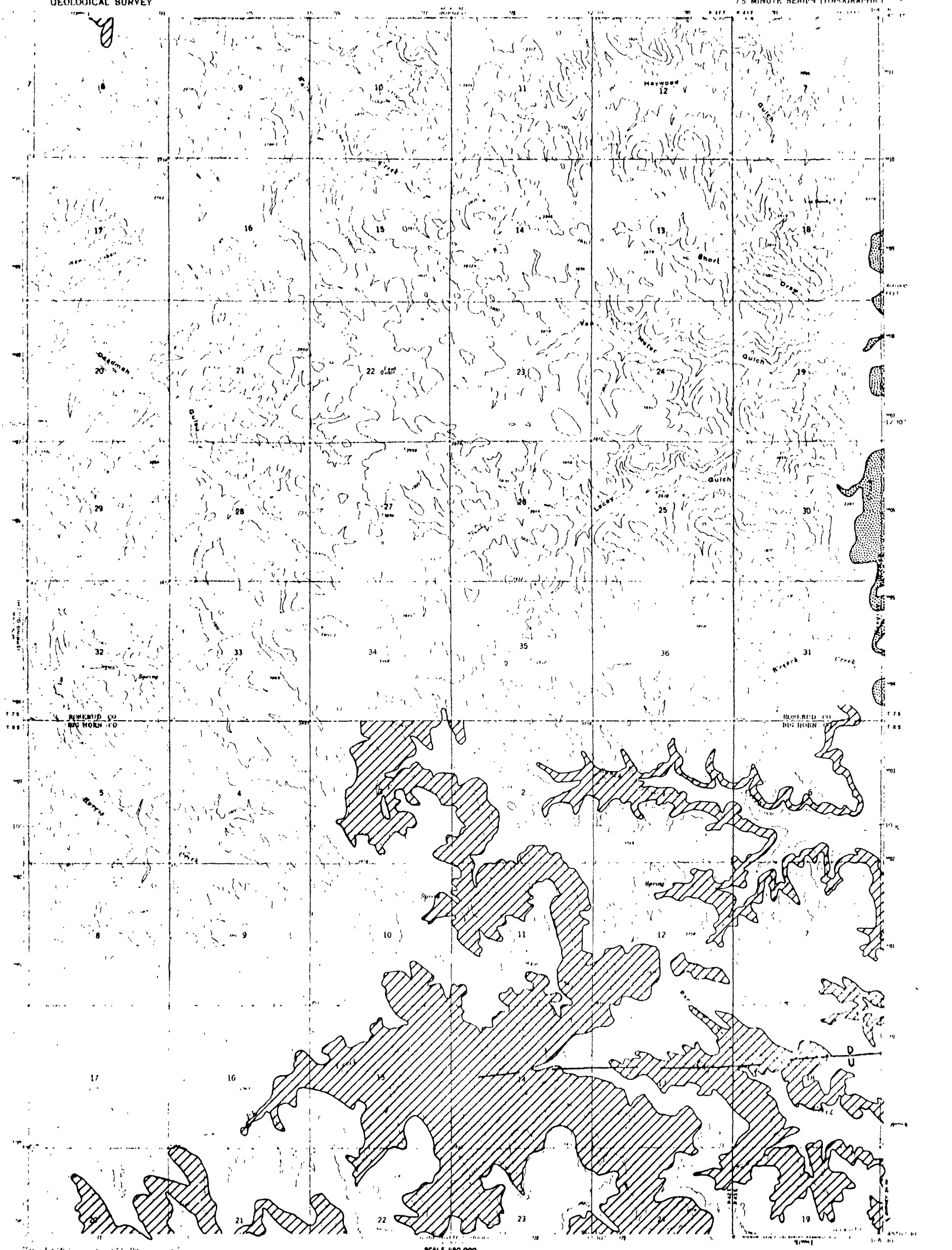
LACEY GULCH QUADRANGLE
MONTANA
7.5 MINUTE SERIES (TOPOGRAPHIC)




ROAD CLASSIFICATION

Light duty — Unimproved dirt

MONTANA
QUADRANGLE LOCATION

LACEY GULCH, MONT.
N4507.5—W10530.7.5
1967

AMS 4874 II NE—SERIES V814

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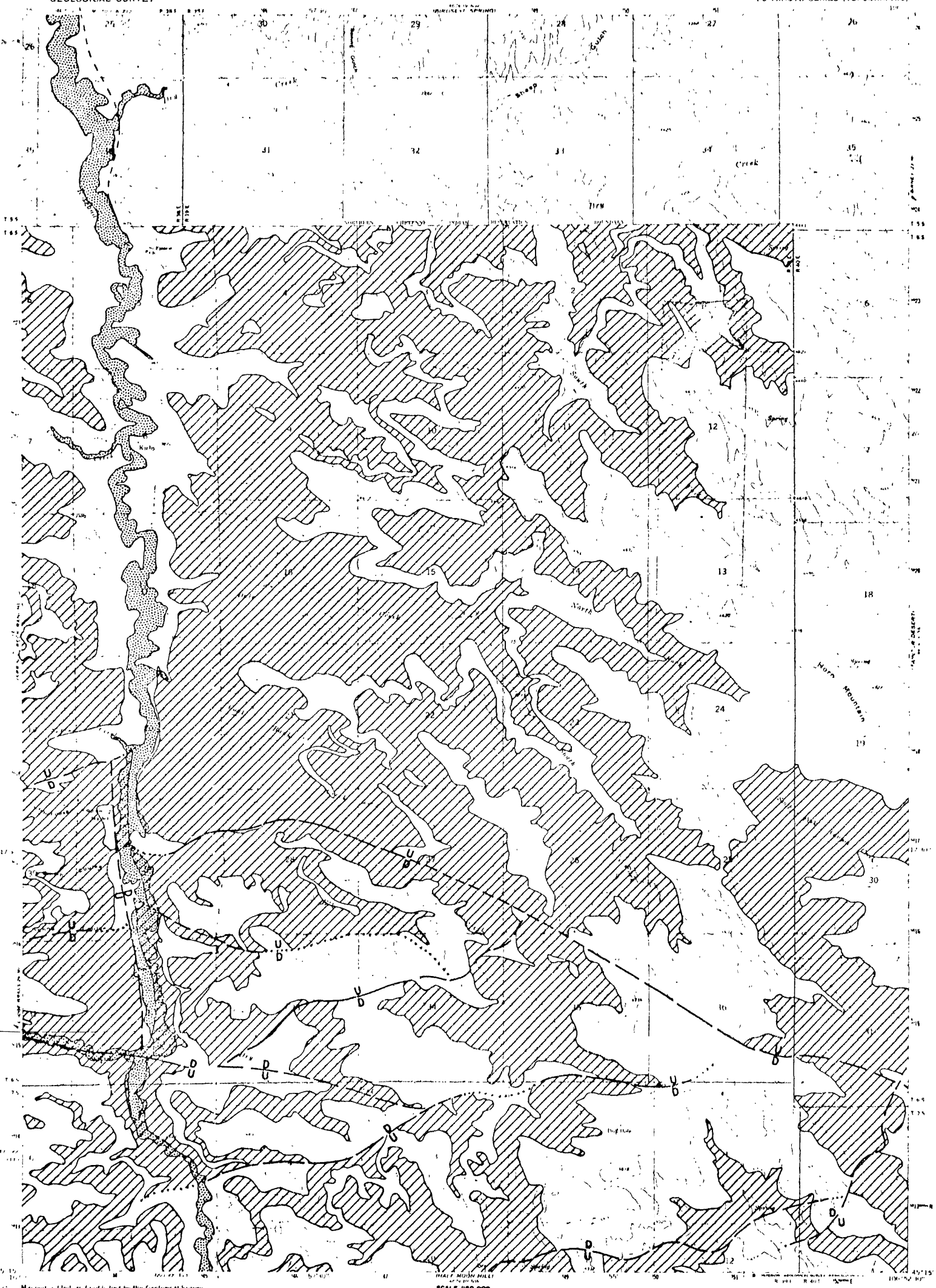
KIRBY QUADRANGLE
MONTANA BIG HORN CO
7.5 MINUTE SERIES (TOPOGRAPHIC)

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Topography by photogrammetric methods from aerial photographs taken 1956. Field checked 1957

Polyconic projection. 1927 North American datum
10,000-foot grid based on Montana coordinate system

1,000-meter Universal Transverse Mercator grid ticks

SCALE 1:62 500

CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

MONTANA
QUADRANGLE LOCATION

ROAD CLASSIFICATION
Medium duty — — — Light duty
Unimproved dirt

KIRBY, MONT.
1957

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KING MOUNTAIN QUADRANGLE
MONTANA
7.5 MINUTE SERIES (TOPOGRAPHIC)

Mapped, edited, and published by the Geological Survey

SCALE 1:24 000

CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

ROAD CLASSIFICATION

Light duty

Unimproved dirt

MONTANA

QUADRANGLE LOCATION

KING MOUNTAIN, MONT.
N4522.5 W10607.5/7.5

1966

AMS 4774 I NW—SERIES V894

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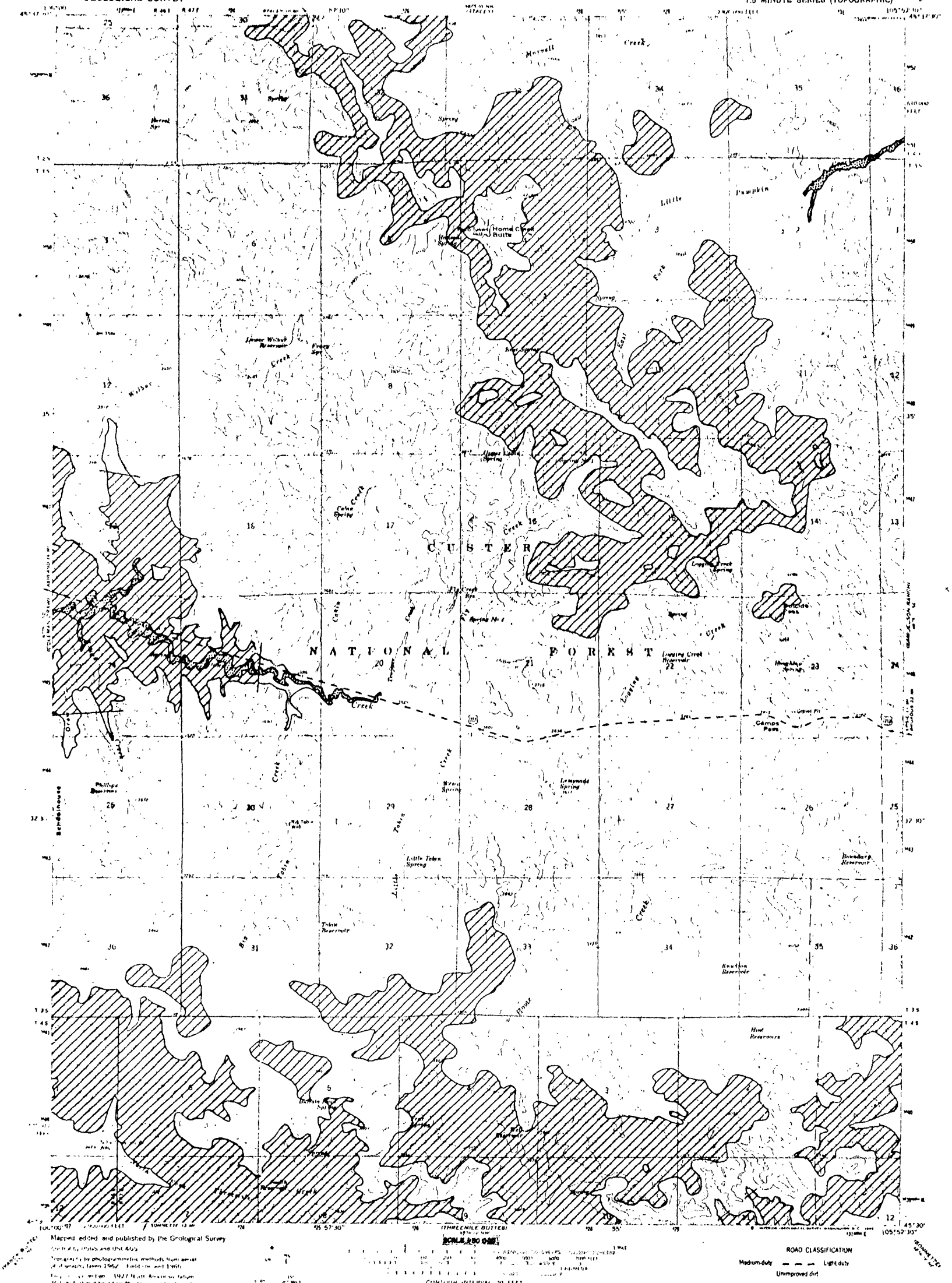
HOME CREEK BUTTE QUADRANGLE
MONTANA - POWDER RIVER CO
7.5 MINUTE SERIES (TOPOGRAPHIC)

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Control by USC&GS and USGS

Topography by photogrammetric methods from aerial photographs taken 1962. Field checked 1965

Polyconic projection. 1927 North American datum

10,000-foot grid based on Montana coordinate system, north zone

1000-meter Universal Transverse Mercator grid ticks, zone 13

SCALE 1:24 000

CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

ROAD CLASSIFICATION

Medium-duty — — — Light-duty

Unimproved dirt

U S Route

MONTANA

QUADRANGLE LOCATION

HOME CREEK BUTTE, MONT.
N4510—W10552 5/7 5

1966

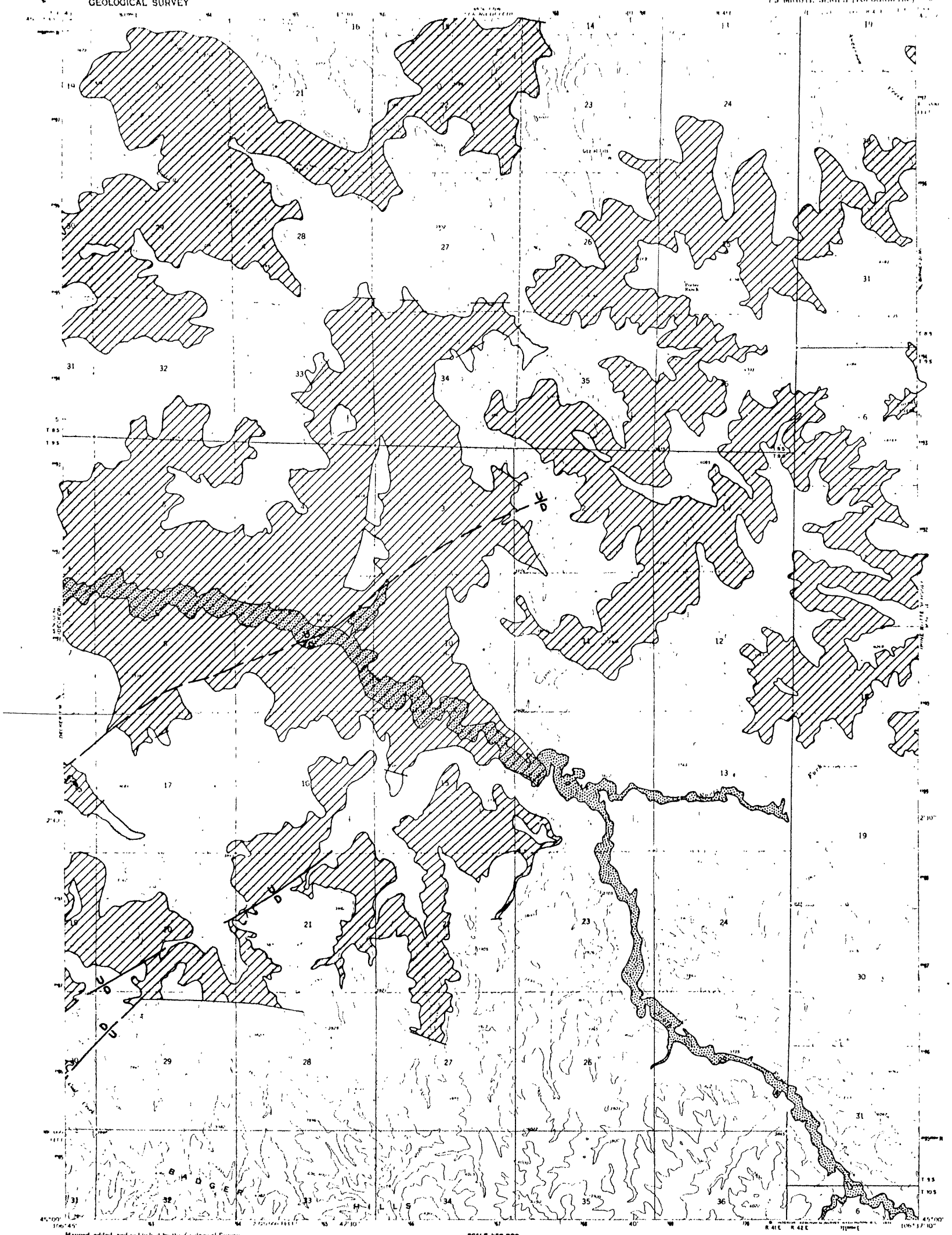
AMS 4075 III SW—SERIES V894

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U S GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR WASHINGTON, D C 20242
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

7-18-02

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

HOLMES RANCH QUADRANGLE
MONTANA
7.5 MINUTE SERIES (TOPOGRAPHIC)




Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1964. Field checked 1967

Polyconic projection. 1927 North American datum
10,000-foot grid based on Montana coordinate system, south zone
1000-meter Universal Transverse Mercator grid ticks, zone 13

Fine red dashed lines indicate selected fence lines

SCALE 1:24 000

1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 KILOMETER

CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

ROAD CLASSIFICATION

Light duty road, all weather, improved surface
Unimproved road, fair or dry weather

MONTANA
QUADRANGLE LOCATION

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U S GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR WASHINGTON, D C 20242
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

HOLMES RANCH, MONT.
N4545/W11507.5/7.5

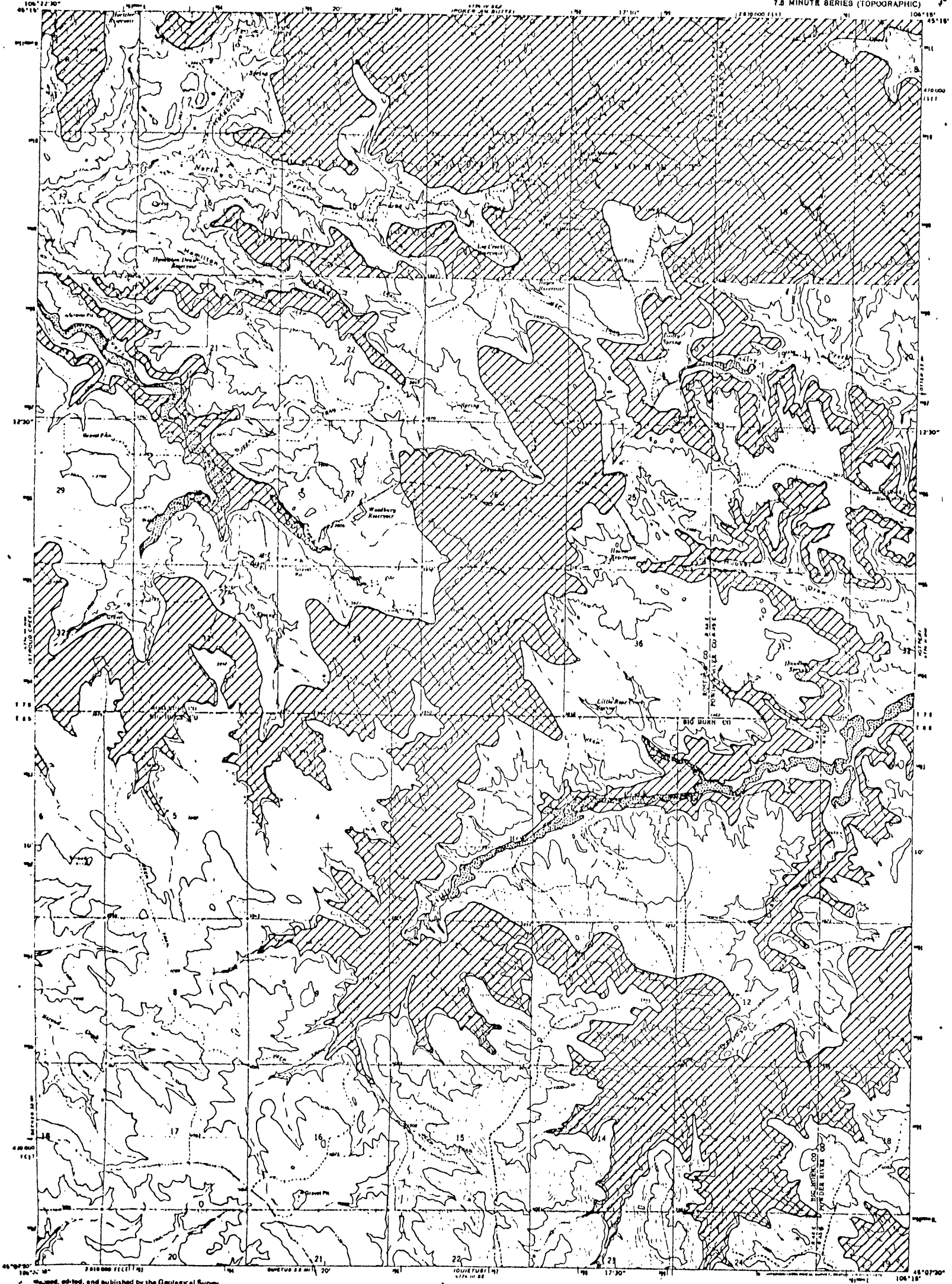
1967

AMS 4674 II SW—SERIES V894

76-162

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

HAMILTON DRAW QUADRANGLE
MONTANA
7.5 MINUTE SERIES (TOPOGRAPHIC)




Mapped, edited, and published by the Geological Survey

Control by photogrammetric methods from aerial photographs taken 1970. Field checked 1970

Projection and 10,000 foot grid ticks: Montana coordinate system, south zone (Lambert conformal conic)
1000 meter Universal Transverse Mercator grid ticks, zone 13, shown in blue. 1927 North American datum

Unimproved roads dashed lines. Indicate selected fence lines

CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

MONTANA
QUADRANGLE LOCATION

ROAD CLASSIFICATION

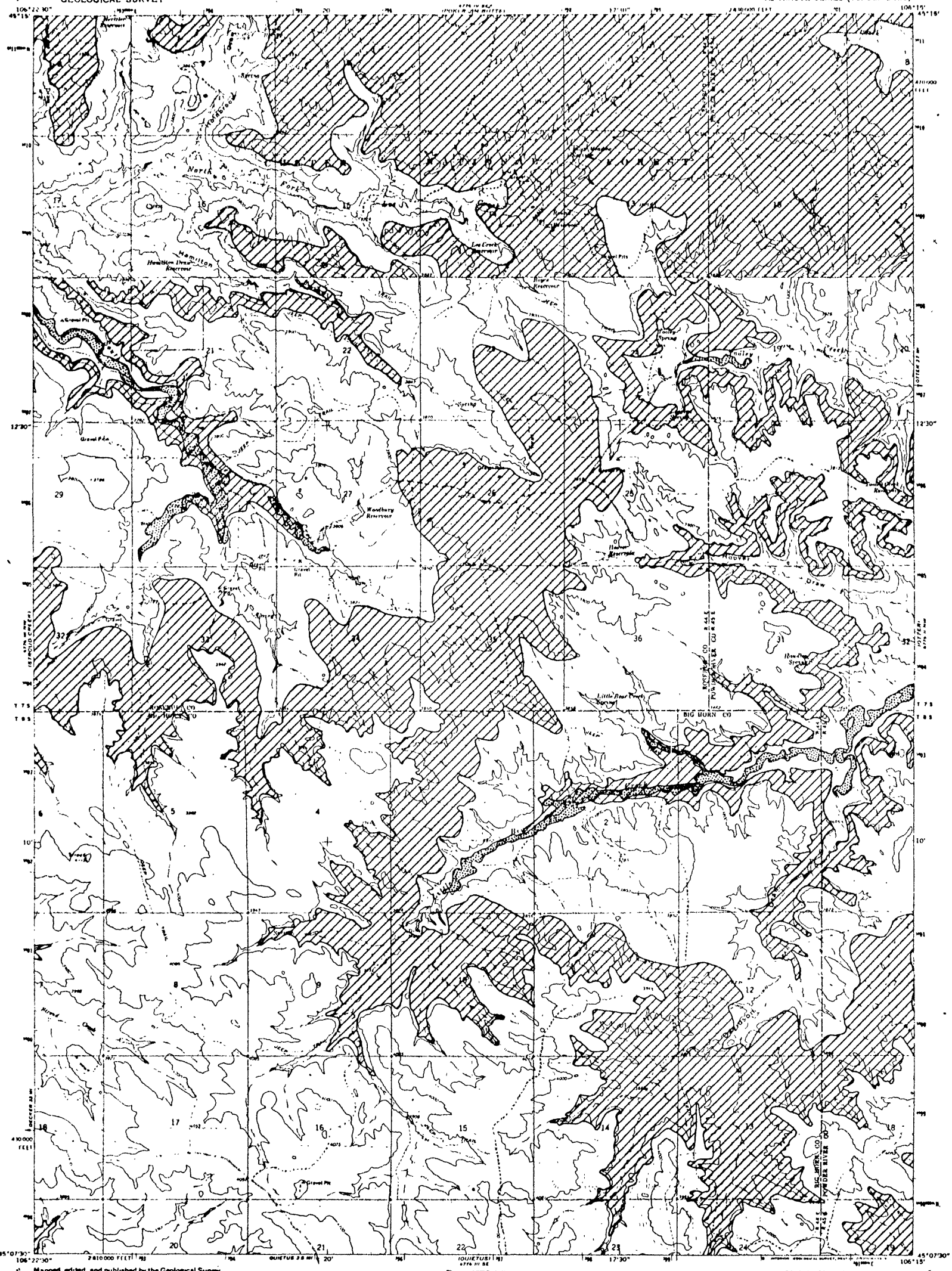
Primary highway, hard surface — Light duty road, hard or improved surface
Secondary highway, hard surface — Unimproved road
Interstate Route · U.S. Route · State Route

HAMILTON DRAW, MONT.
N4907.5—W10615/7.5
1972

78-102

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

HAMILTON DRAW QUADRANGLE
MONTANA
7.5 MINUTE SERIES (TOPOGRAPHIC)




Mapped, edited, and published by the Geological Survey

Control by USGS, USC&GS, and U. S. Forest Service

Topography by photogrammetric methods from aerial photographs taken 1970. Field checked 1972

Projection and 10,000 foot grid ticks: Montana coordinate system, south zone (Lambert conformal conic) 1000 meter Universal Transverse Mercator grid ticks, zone 13, shown in blue. 1927 North American datum

Fine red dashed lines indicate selected fence lines

CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

ROAD CLASSIFICATION

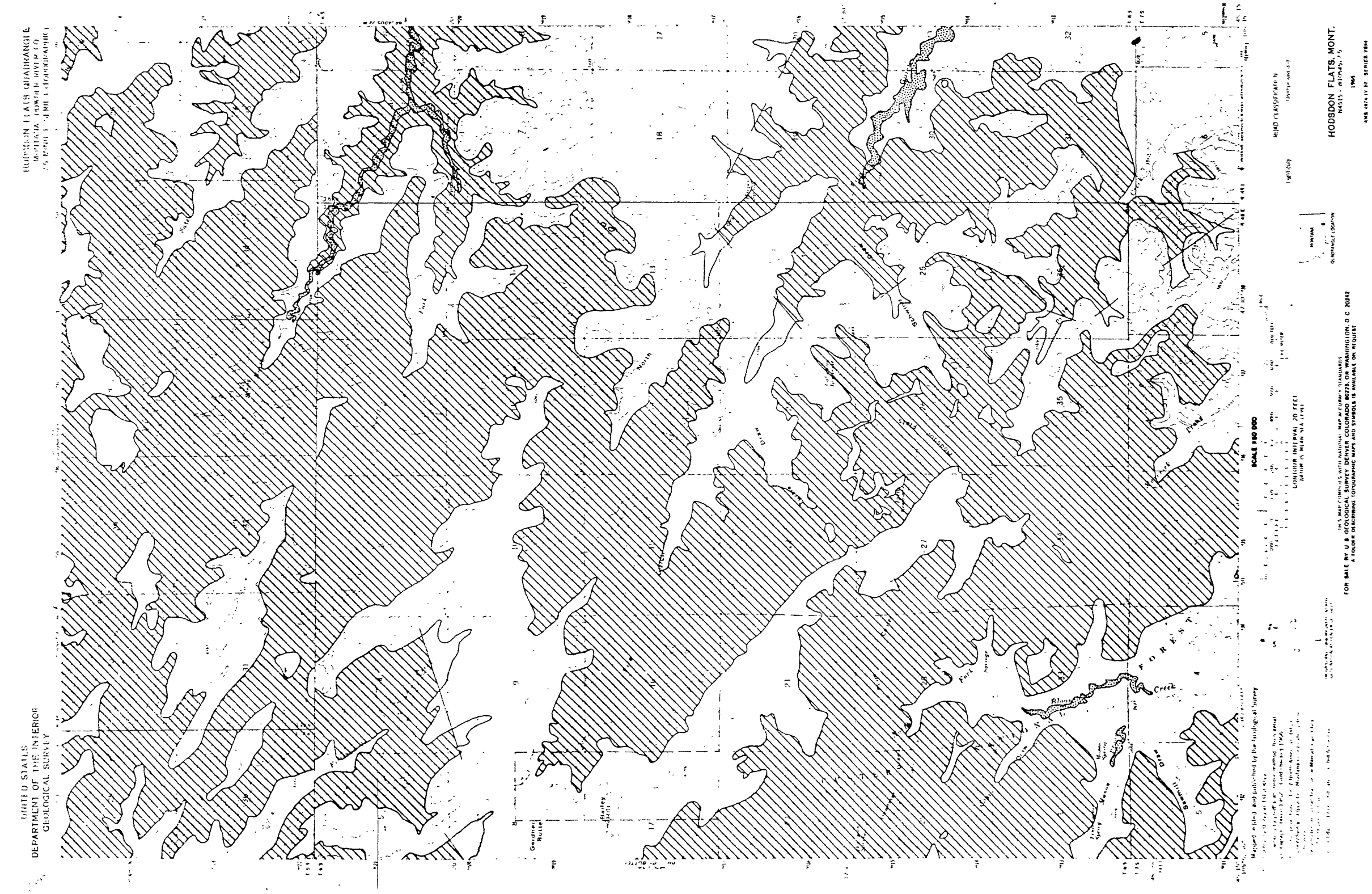
Primary highway, hard surface
Light duty road, hard or improved surface
Secondary highway, hard surface
Unimproved road
Interstate Route
U. S. Route
State Route

HAMILTON DRAW, MONT.
N4807.5—W10615/7.5

1972

76-162

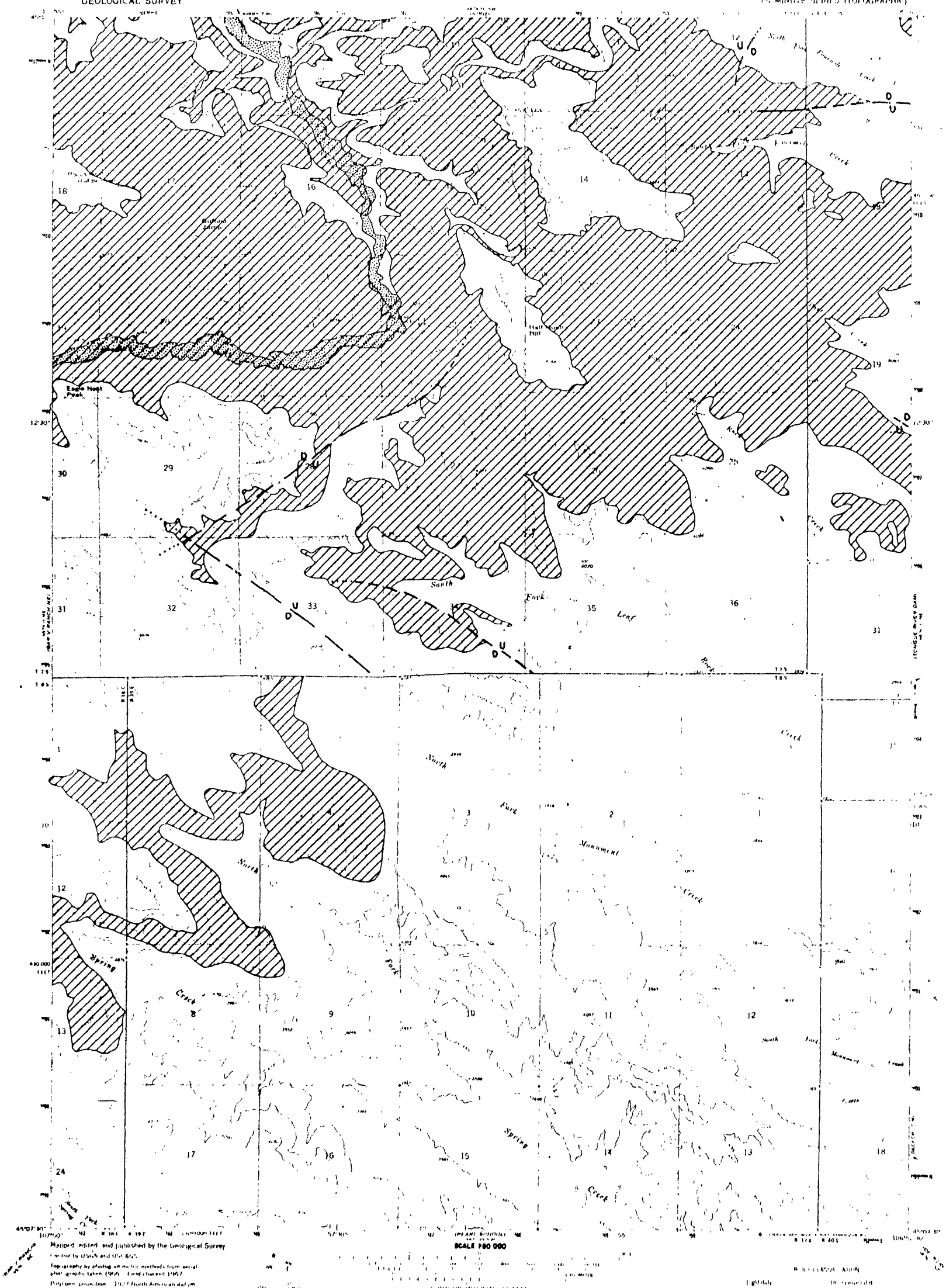
76-162



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
HODSDON FLATS, MONT.
SCALE 1:50 000
CONTOUR INTERVAL 20 FEET
FOR SALE BY U.S. GEOLOGICAL SURVEY DENVER, COLORADO 80225, OR WASHINGTON, D.C. 20242
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

HALF MOON HILL QUADRANGLE
MONTANA—BIG HORN CO
7.5 MINUTE SERIES (TOPOGRAPHIC)




Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by plotting on multiplex instruments from aerial photographs taken 1963. Field checked 1967

Polyconic projection. 1927 North American datum
10,000-foot grid based on Montana coordinate system, east zone

1,000-meter Universal Transverse Mercator grid ticks, zone 13, shown in blue

Lines and figured tenths shown also selected fourth tenths

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR WASHINGTON, D. C. 20242

A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

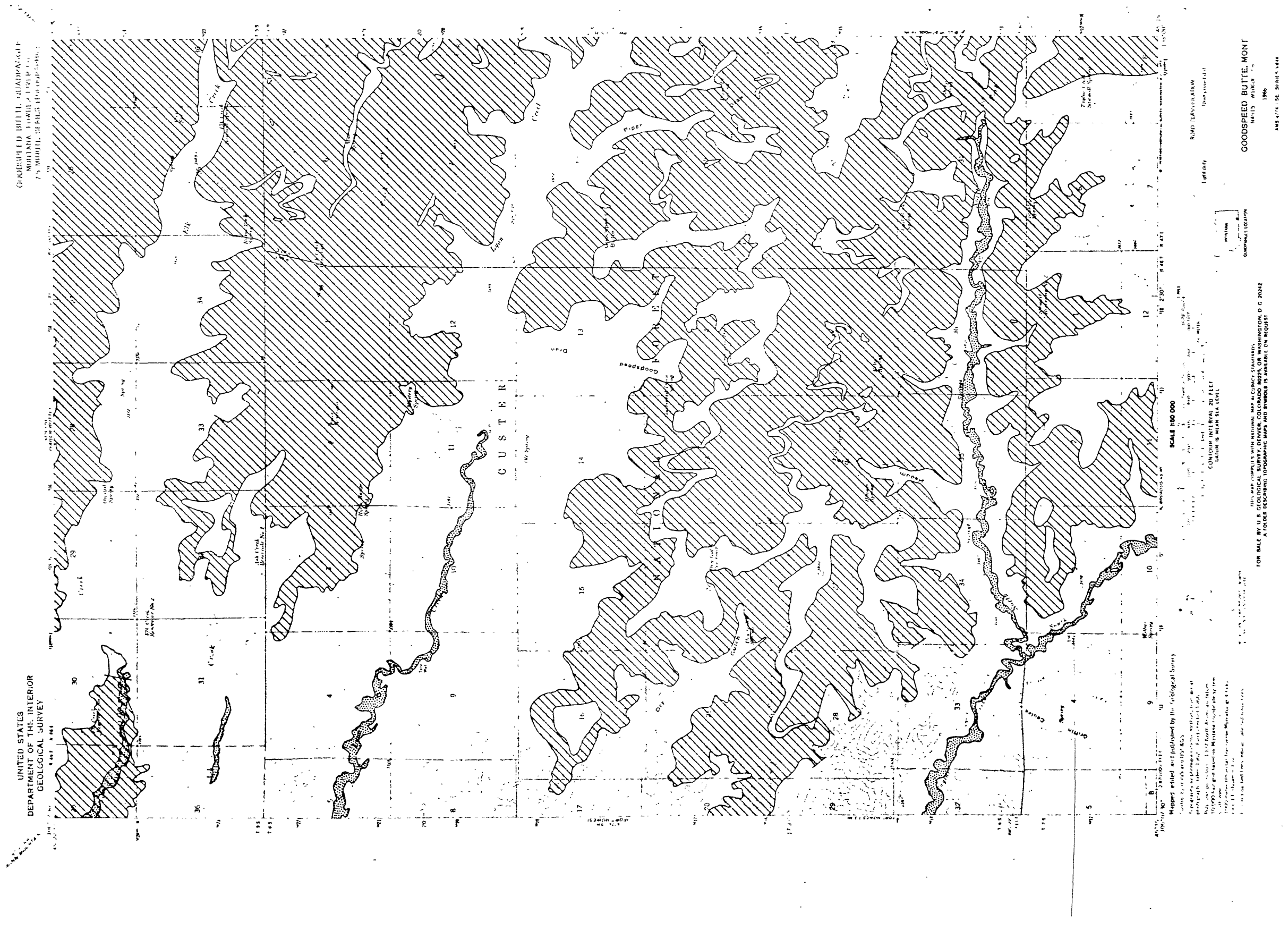
HALF MOON HILL MONT
NW/4 BIGHORN 7.5'

1967

AMS 4074 III NW—SERIES V884

76-182

76-162


UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
GOODSPEED BUTTE, MONT
1966
CUSTER
Goodspeed
Elk
Piper
SCALE 1:50 000
CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL
ROAD CLASSIFICATION
Light-duty
Unimproved dirt
QUADRANGLE LOCATION
MONTANA
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR WASHINGTON, D.C. 20242
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

FORT HOWES QUADRANGLE
MONTANA
7.5 MINUTE SERIES (TOPOGRAPHIC)

CUSTER NATIONAL FOREST

Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1962. Field checked 1964

Polyconic projection. 1927 North American datum

10,000-foot grid based on Montana coordinate system, south zone

1000-meter Universal Transverse Mercator grid ticks, zone 13, shown in blue

Blue red dashed lines indicate selected fence lines

SCALE 1:50 000

1 MILE
1 KILOMETER

CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

MONTANA
QUADRANGLE LOCATION

ROAD CLASSIFICATION
Light duty
Unimproved dirt

FORT HOWES, MONT.
N4515 - W10607.5/7.5
1966

AMS 4774 I SW SERIES V894

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
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A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

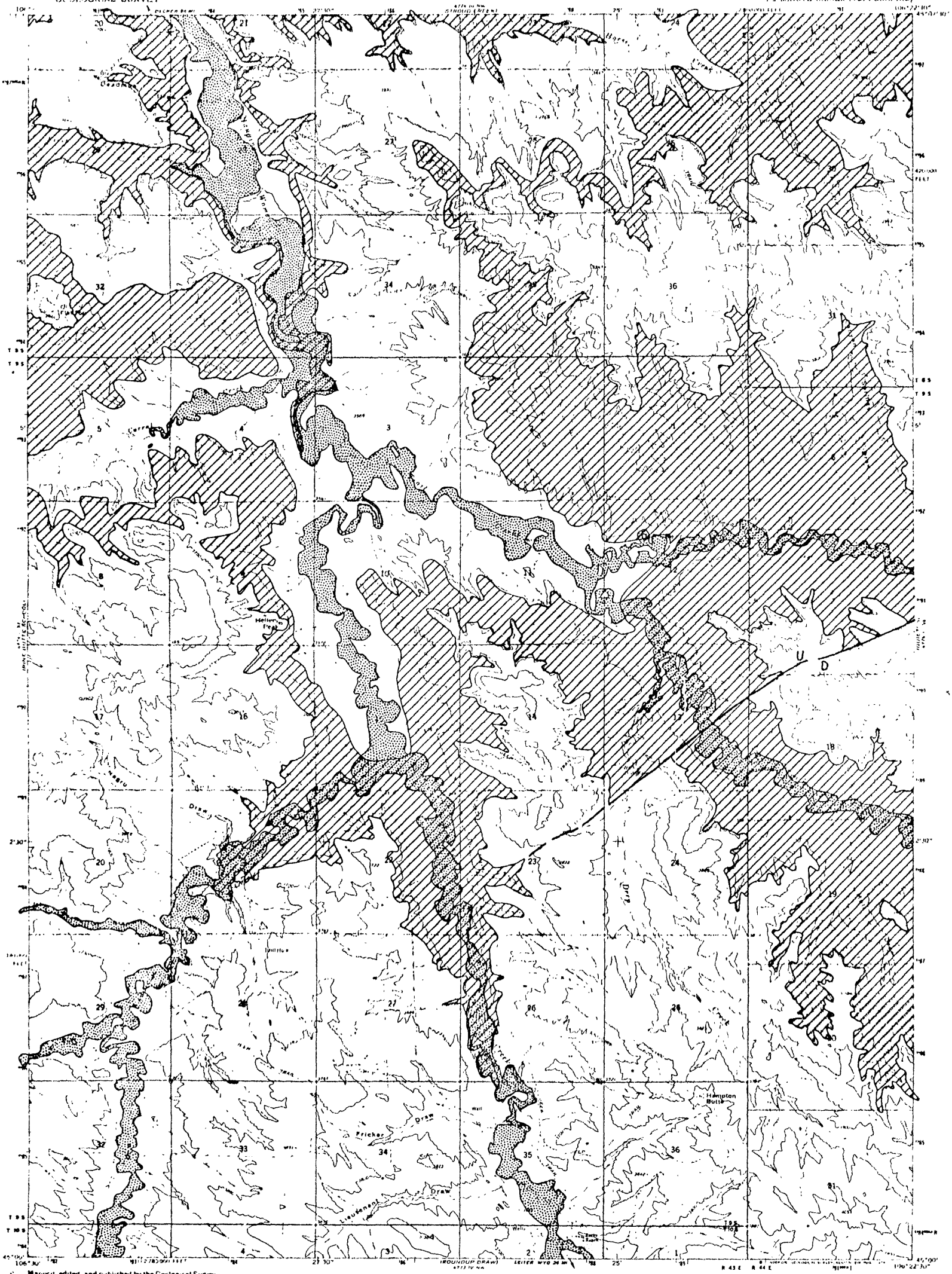
W
D

76 - 102

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

ADVANCE PRINT
SUBJECT TO CORRECTION
SCALE 1:24000
F

# FORKS RANCH QUADRANGLE
MONTANA-SIOUX CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)




Mapped, edited, and published by the Geological Survey

Control by USGS, USC&GS and U. S. Forest Service

Topography by photogrammetric methods from aerial photographs taken 1970. Field checked 1972

Projection and 10,000 foot grid ticks: Montana coordinate system, south zone (Lambert conformal conic)
1000-meter Universal Transverse Mercator grid ticks, zone 13, shown in blue. 1927 North American datum

Fine red dashed lines indicate selected fence lines

UTM GRID AND 1972 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24000

CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

MONTANA
QUADRANGLE LOCATION

ROAD CLASSIFICATION

| | |
|---|---|
| Primary highway, hard surface | Light duty road, hard or improved surface |
| Secondary highway, hard surface | Unimproved road |

Interstate Route  U. S. Route  State Route

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER COLORADO 80225, OR RESTON, VIRGINIA 22092
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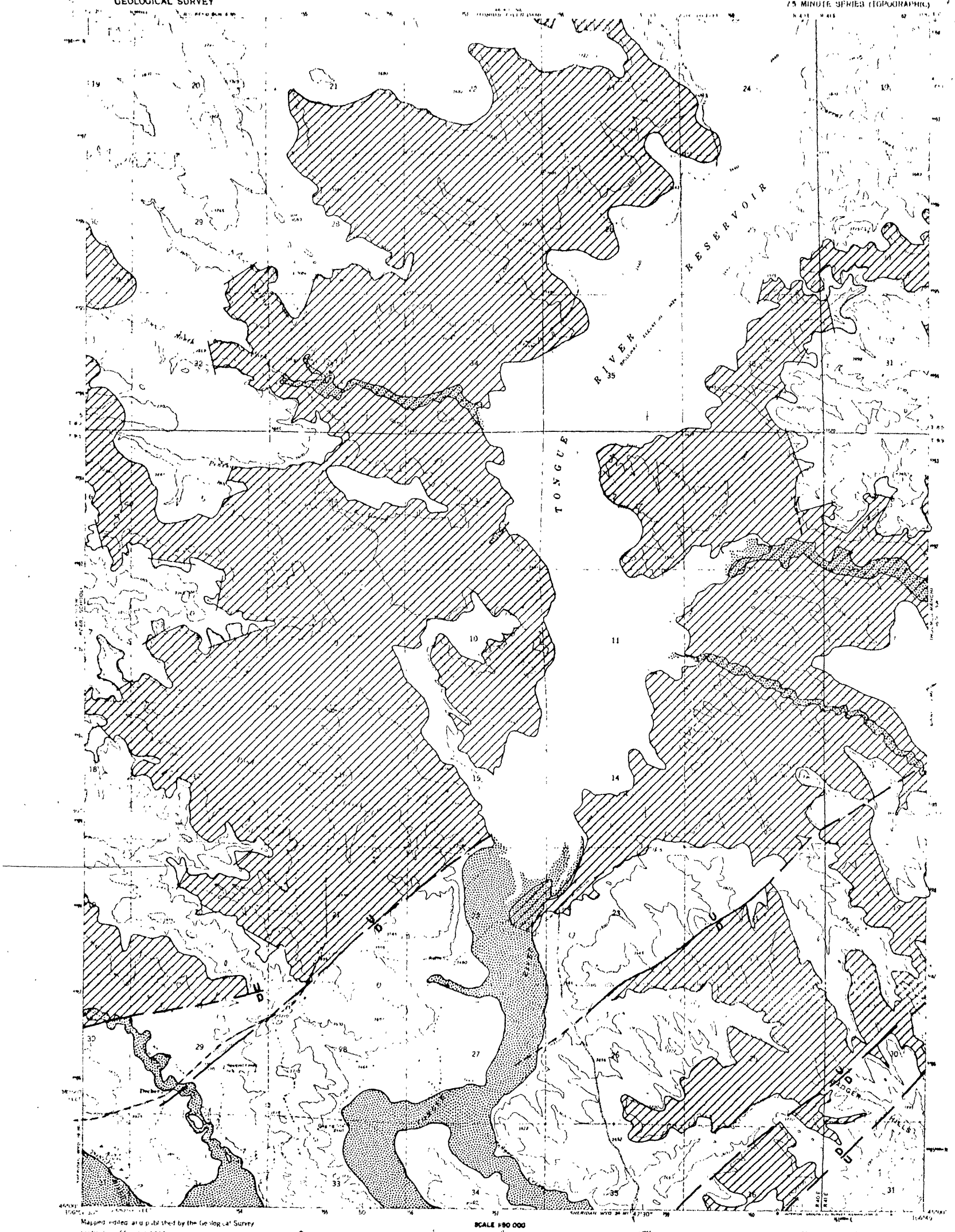
FORKS RANCH, MONT.
N4500—W10622.5/7.5
1972

3

76-162

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DECKER QUADRANGLE
MONTANA-BIG HORN CO
7.5 MINUTE SERIES (TOPOGRAPHIC)




Mapped, edited, and published by the Geological Survey

SCALE 1:50 000

CONTOUR INTERVAL 20 FEET
ATOMIC MEAN SEA LEVEL

ROAD CLASSIFICATION

Secondary highway, all weather. Light duty road, all weather
hard surface — — — improved surface
Unimproved road, fair or dry weather

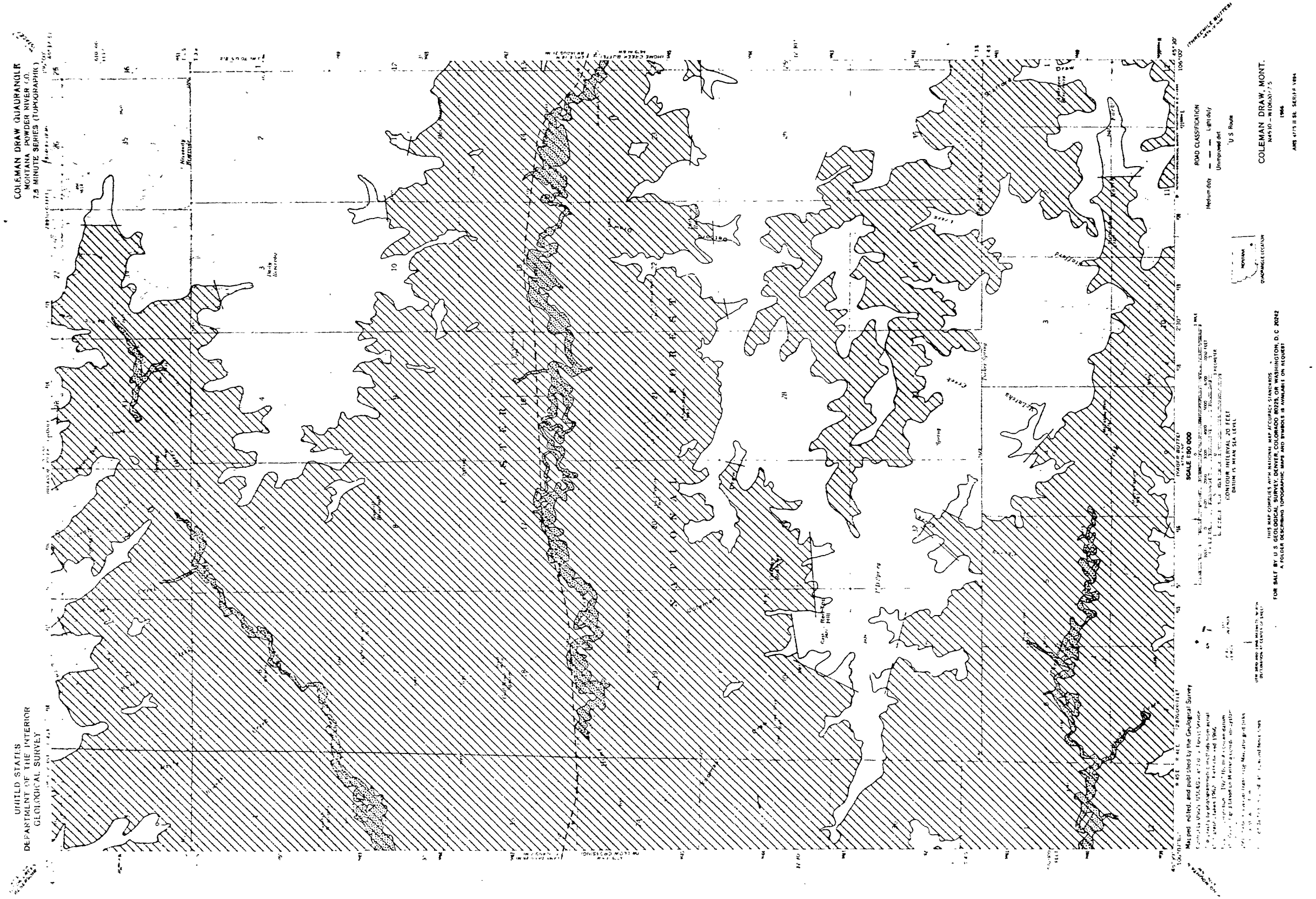
MONTANA
QUADRANGLE LOCATION

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR WASHINGTON, D.C. 20242
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

DECKER, MONT
N4500 W10645 7.5
1967
AMS 4674 III SE SERIES V894

76-162

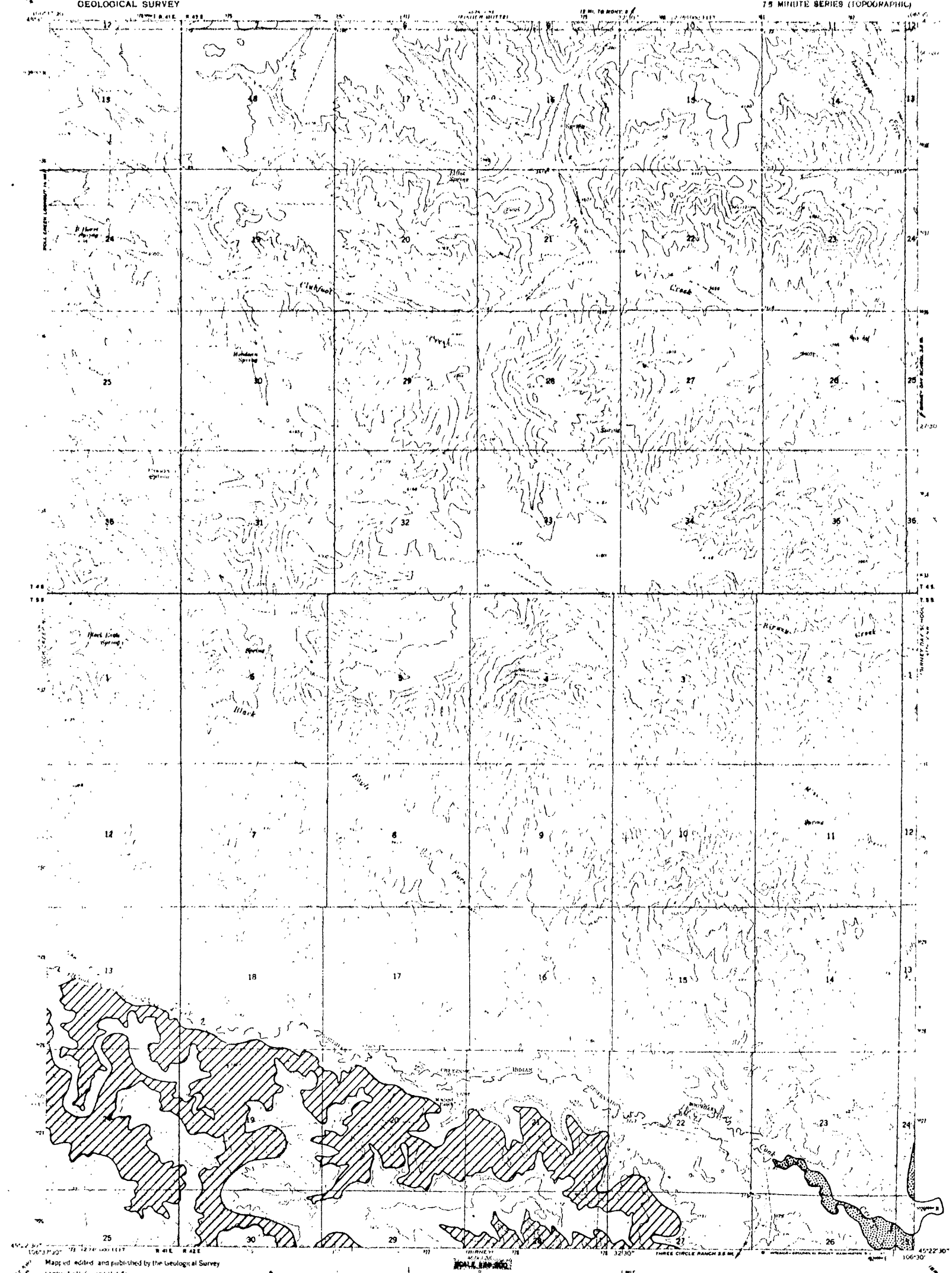
76-162



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
COLEMAN DRAW QUADRANGLE
MONTANA POWDER RIVER CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
COLEMAN DRAW, MONT.
N4530 - W10600/7.5
1966
AMS 4775 II SE. SERIES V894
ROAD CLASSIFICATION
Medium duty
Light duty
Unimproved dirt
U.S. Route
SCALE 1:50 000
CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL
Mapped, edited, and published by the Geological Survey

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

# CLUBFOOT CREEK QUADRANGLE
MONTANA ROSEBUD CO
7.5 MINUTE SERIES (TOPOGRAPHIC)




Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs. Aerial photographs taken 1965. Field checked 1967

Polyconic projection. 1927 North American datum
10,000-foot grid based on Montana coordinate system, south zone
1000-meter Universal Transverse Mercator grid ticks, zone 13, shown in blue

Fine red dashed lines indicate selected fence lines

GRID AND 1965 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR WASHINGTON, D.C. 20242
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

ROAD CLASSIFICATION

Light duty — Unimproved dirt

MONTANA
QUADRANGLE LOCATION

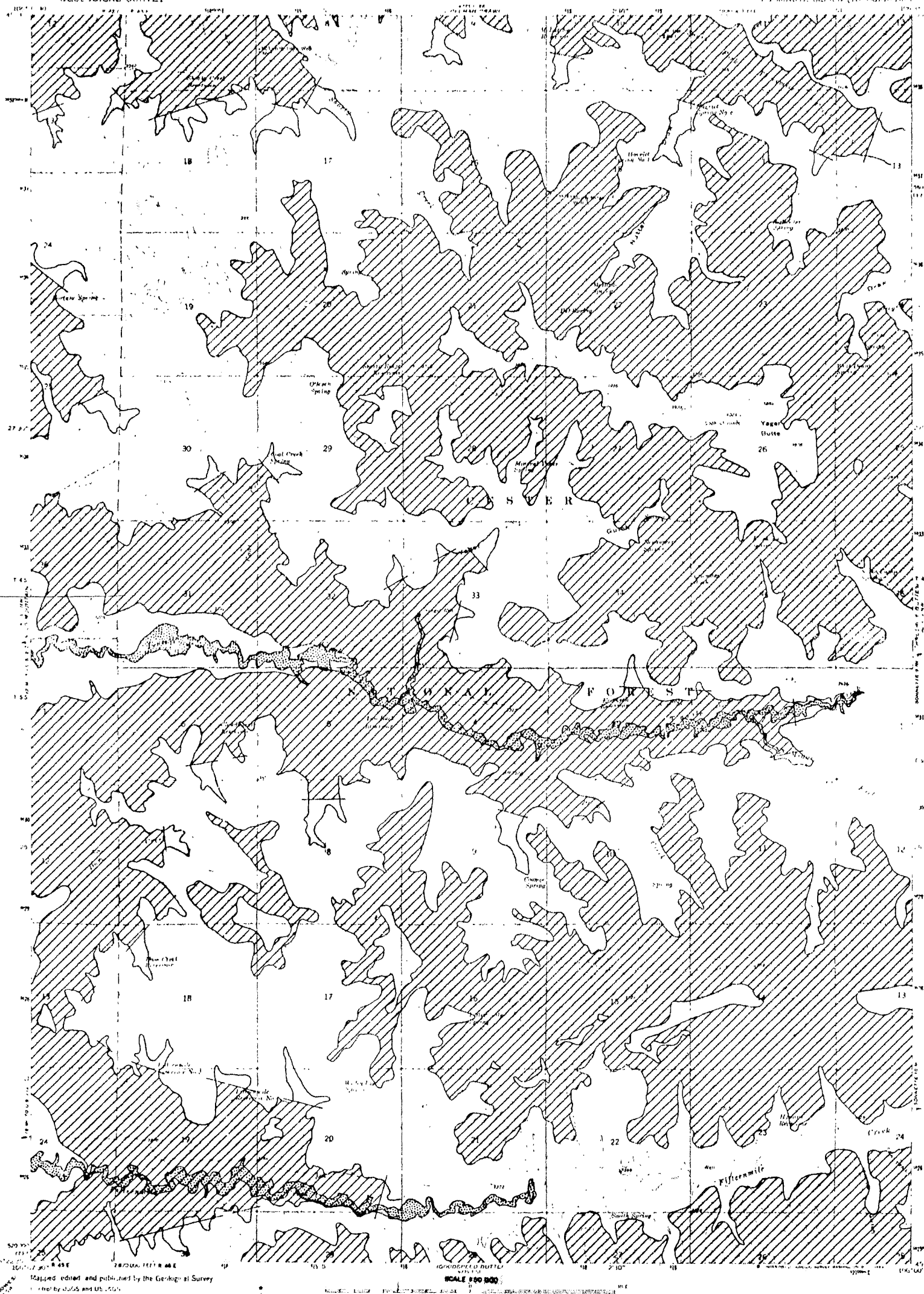
CLUBFOOT CREEK, MONT
N4522.5—W10630/7.5

1967

AMS 4874 I NE.-SERIES V894

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

YAGER BUTTE QUADRANGLE
MONTANA-POWDER RIVER CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)




Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1962. Field checked 1967

Polyconic projection. 1927 North American datum
10,000-foot grid based on Montana coordinate system, south zone
1000-meter Universal Transverse Mercator grid ticks, zone 13
Fine red dashed lines indicate tree not forest lines

SCALE 1:24 000

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

ROAD CLASSIFICATION

Light duty — Unimproved dirt

MONTANA
QUADRANGLE LOCATION

YAGER BUTTE, MONT.
N4652.5—W10600/7.5
1967
AMS 4774 I NE—SERIES V894

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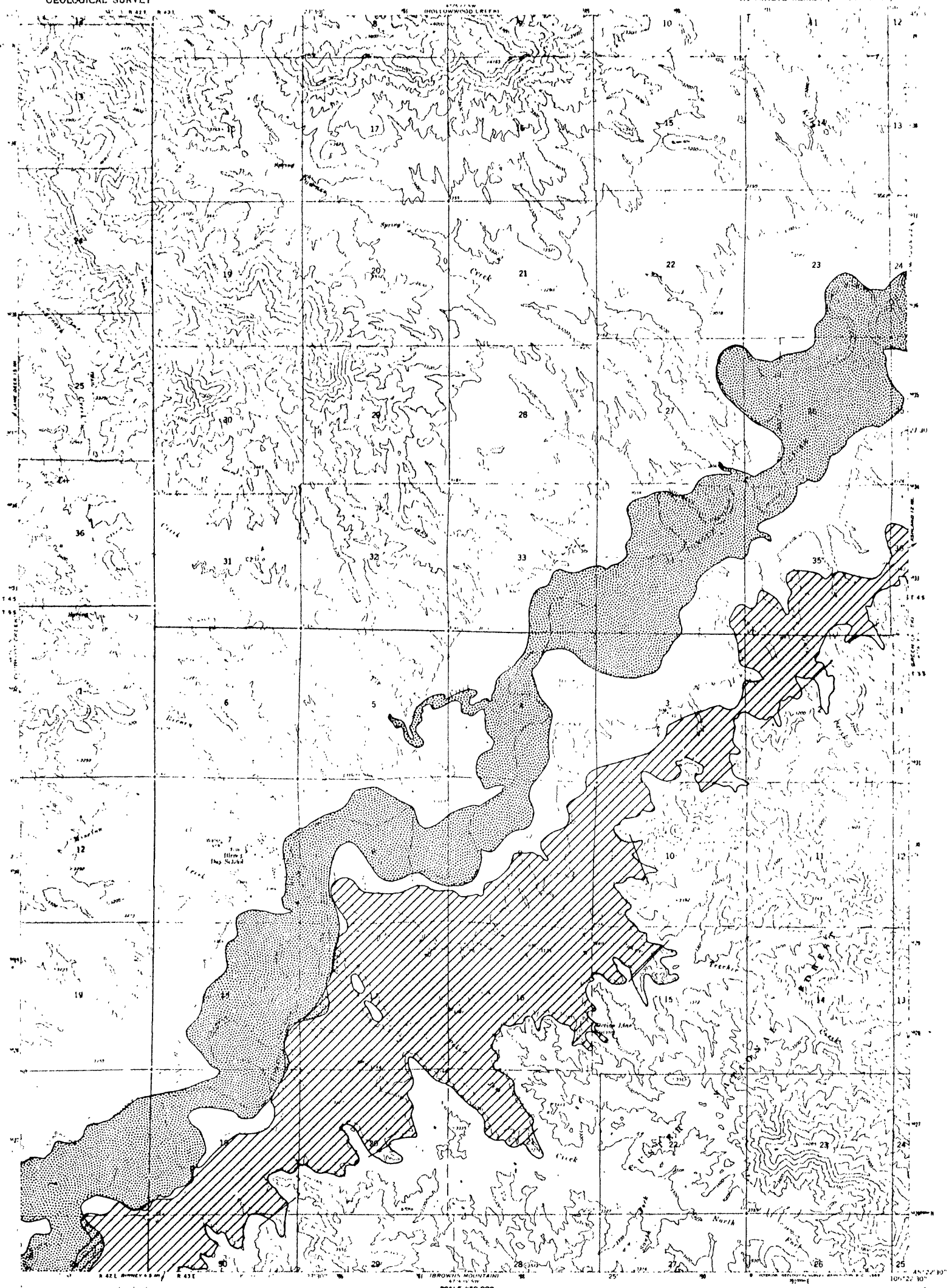
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

BIRNEY DAY SCHOOL QUADRANGLE
MONTANA ROSEBUD CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)



SCALE 1:50 000

CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

ROAD CLASSIFICATION
Light duty — Unimproved dirt

MONTANA
QUADRANGLE LOCATION

BIRNEY DAY SCHOOL, MONT.
NA5722.5 — W10[illegible]7.5
1966
AMS 4774 IV NW—SERIES V894

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
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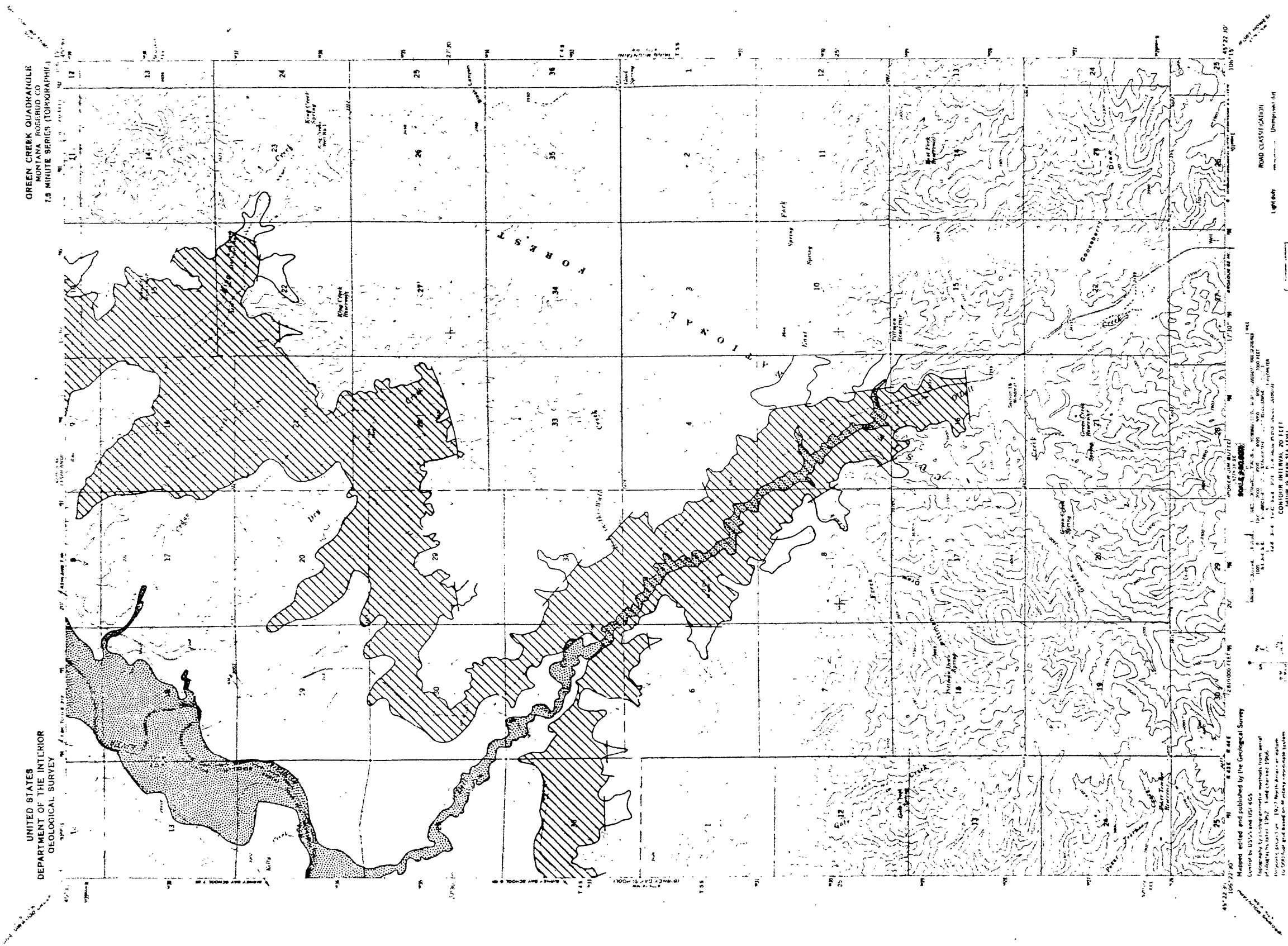
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

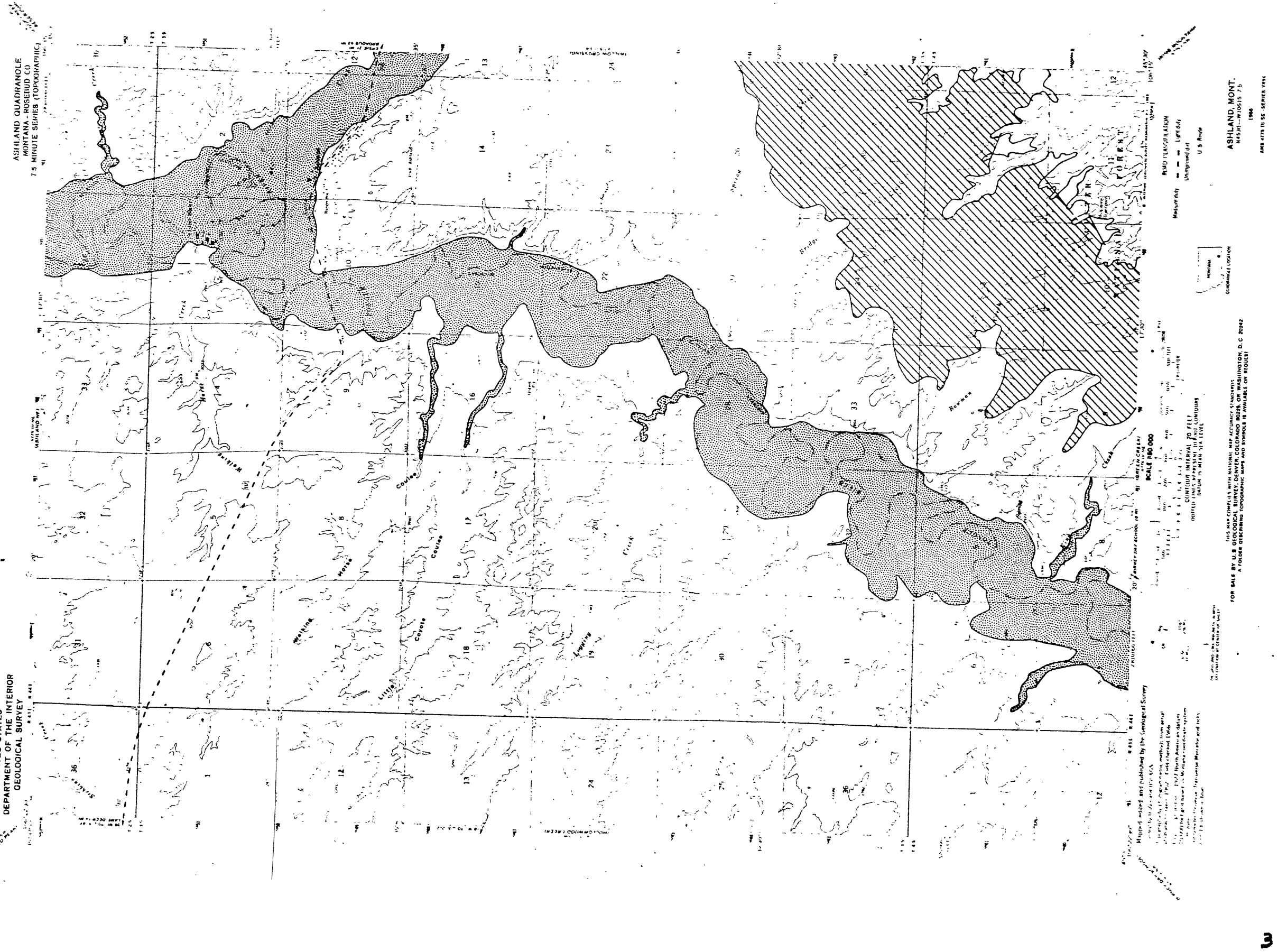
76-162



GREEN CREEK QUADRANGLE
MONTANA ROSEBUD CO
7.5 MINUTE SERIES (TOPOGRAPHIC)
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
GREEN CREEK, MONT.
ROAD CLASSIFICATION
Light duty
Unimproved dirt
CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL
Mapped edited and published by the Geological Survey


37

76-162



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
ASHLAND QUADRANGLE
MONTANA-ROSEBUD CO
7.5 MINUTE SERIES (TOPOGRAPHIC)
ASHLAND, MONT.
N4530—W10515 7.5
1966
AMS 4773 III SE—SERIES V894
ROAD CLASSIFICATION
Medium duty
Light duty
Unimproved dirt
U.S. Route
QUADRANGLE LOCATION
MONTANA
SCALE 1:50 000
CONTOUR INTERVAL 20 FEET
DOTTED LINES REPRESENT 10-FOOT CONTOURS
DATUM IS MEAN SEA LEVEL
THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR WASHINGTON, D.C. 20242
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST
Mapped, edited and published by the Geological Survey
Coyote
Coulee
Walking
Littlefield
Creek
Bridger
Rowman


38

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

BAR V RANCH QUADRANGLE
MONTANA - BIG HORN CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1964. Field checked 1967

Polyconic projection. 1927 North American datum
10,000-foot grid based on Montana coordinate system, south zone
1000-meter Universal Transverse Mercator grid ticks, zone 13, shown in blue

Fine red dashed lines indicate selected fence lines

SCALE 1:50 000

CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

ROAD CLASSIFICATION

Light duty — Unimproved dirt

MONTANA
QUADRANGLE LOCATION

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR WASHINGTON, D. C. 20242
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

# BAR V RANCH, MONT.

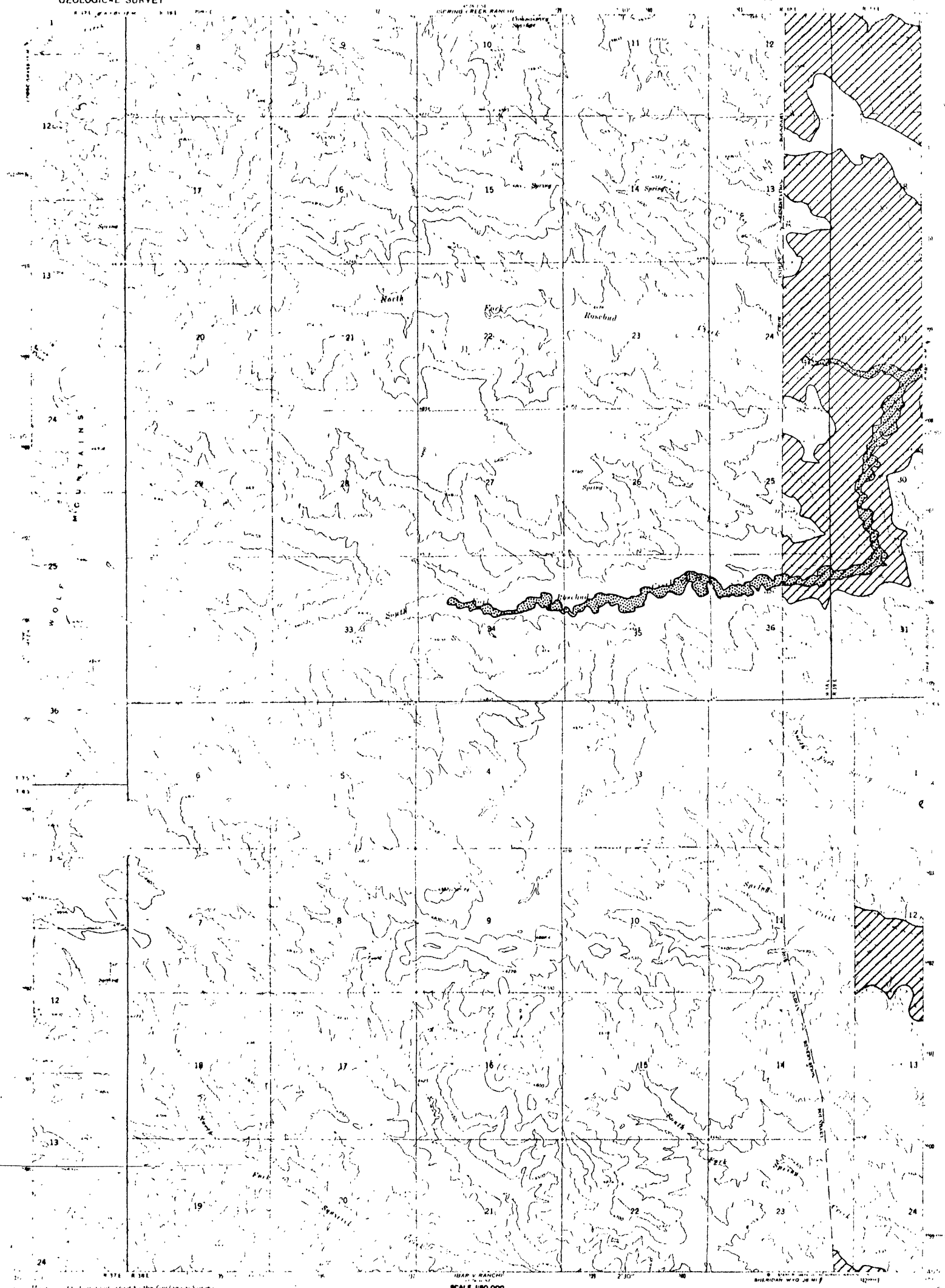
N4945—W10700—7.5

1967

AMS 4174 II SE—SERIES V894

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

BAR V RANCH NE QUADRANGLE
MONTANA
7.5 MINUTE SERIES (TOPOGRAPHIC)




SCALE 1:24 000

CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

ROAD CLASSIFICATION

MONTANA
QUADRANGLE LOCATION

BAR V RANCH NE, MONT.
NAD27 N—W107.45/7.5
1967
AMS 6574 II NW—SERIES V894

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
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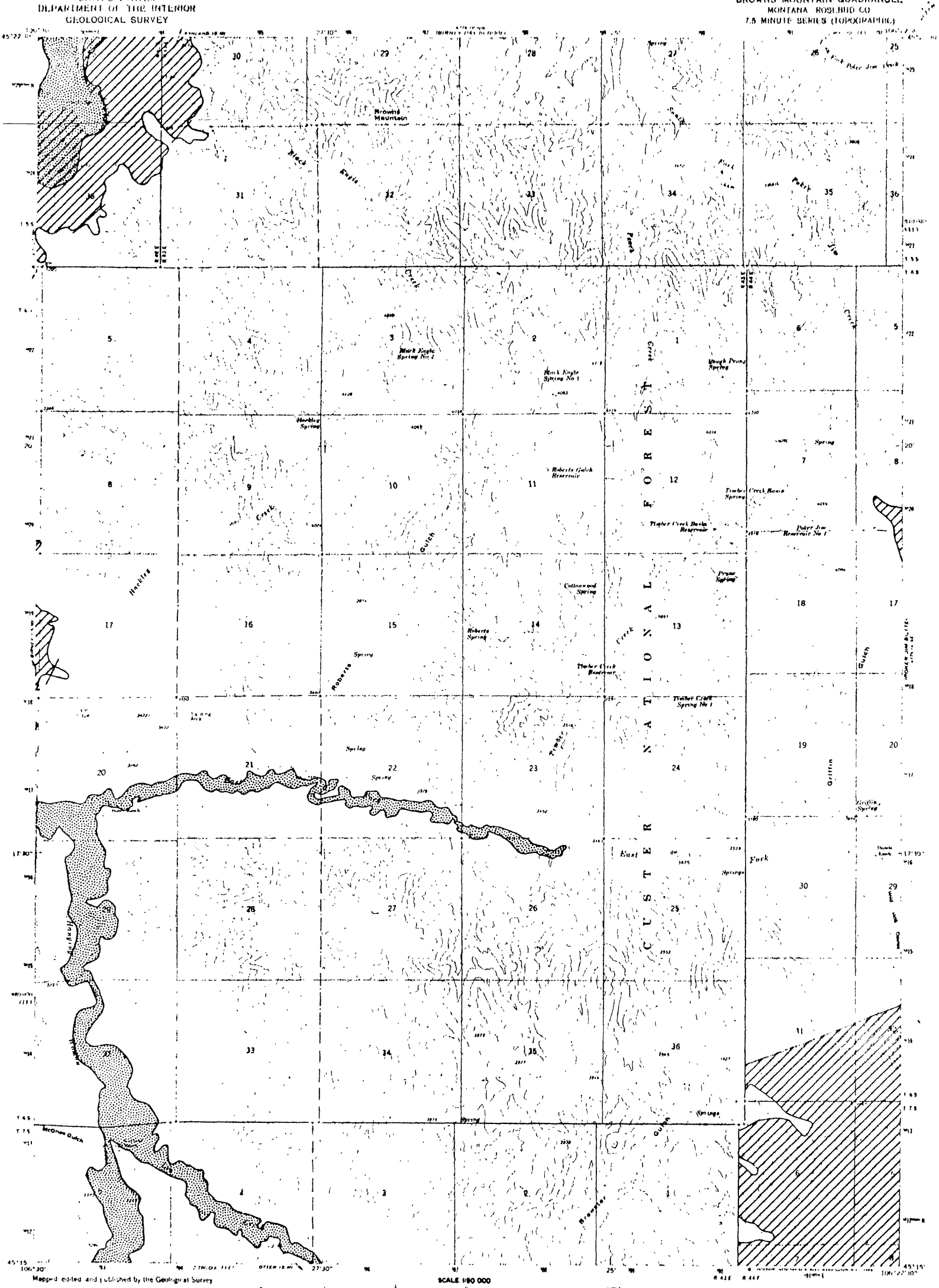
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

46

Vol. 16 p. 2

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

BROWNS MOUNTAIN QUADRANGLE
MONTANA ROSEBUD CO
7.5 MINUTE SERIES (TOPOGRAPHIC)




Mapped, edited, and published by the Geological Survey

SCALE 1:50 000

CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

ROAD CLASSIFICATION

Light duty — Unimproved dirt

MONTANA
QUADRANGLE LOCATION

BROWNS MOUNTAIN, MONT.
N4515—W10522.5—7.5

1966

AMS 4774 IV SW—SERIES V894

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U S GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR WASHINGTON, D C 20242
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

14

76-12-84

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

ADVANCE PROOF
SUBJECT TO CORRECTION

F

# BEAR CREEK SCHOOL QUADRANGLE
MONTANA POWDER RIVER CO
7.5 MINUTE SERIES (TOPOGRAPHIC)

Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1970 Field checked 1972

Projection and 10,000 foot grid ticks Montana coordinate system, south zone (Lambert conformal conic)
1000 metre Universal Transverse Mercator grid ticks, zone 13, shown in blue 1927 North American datum

Fine red dashed lines indicate selected fence lines

UTM GRID AND 1972 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24000

CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U S GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

MONTANA
QUADRANGLE LOCATION

ROAD CLASSIFICATION

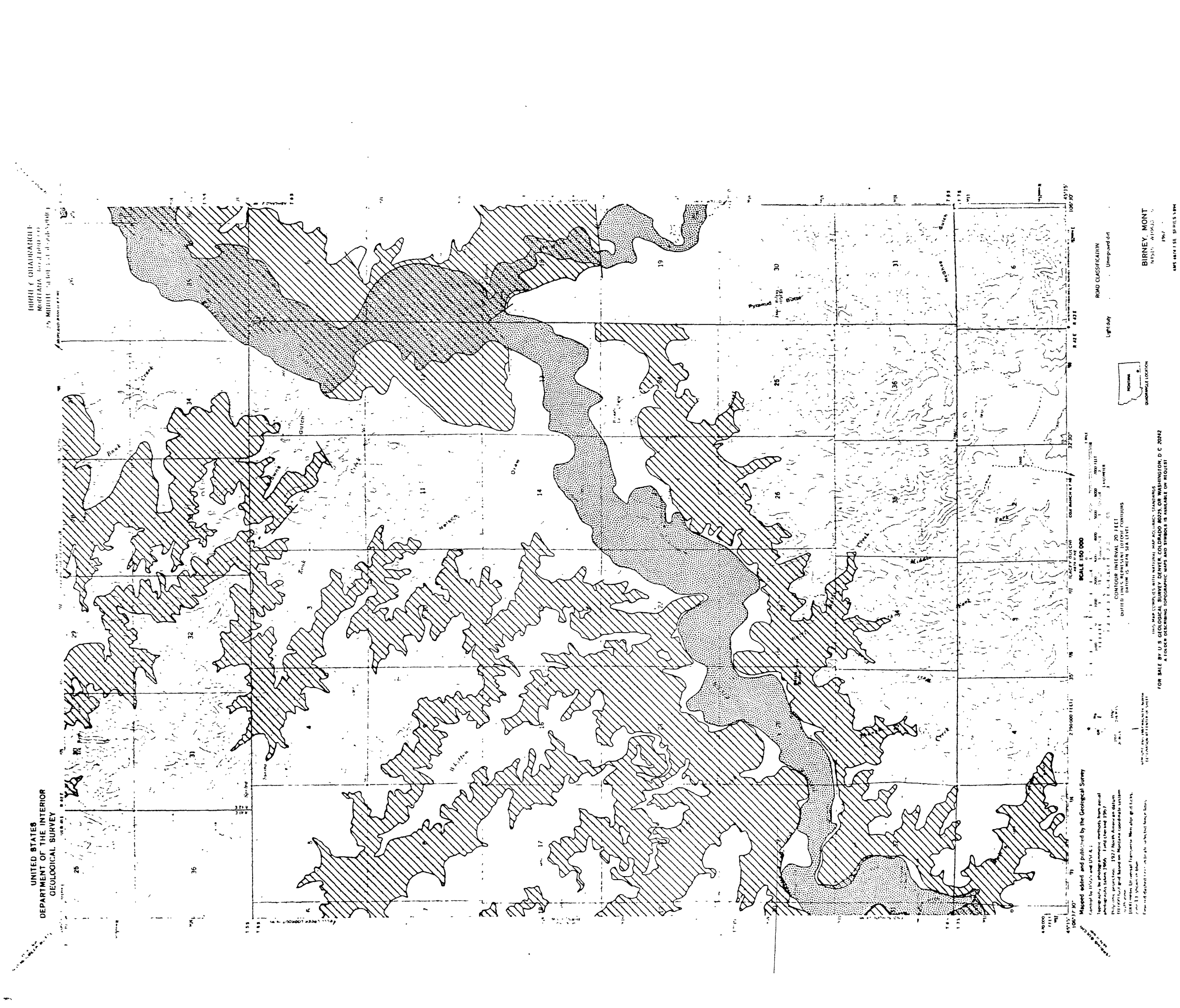
| | |
|---|---|
| Primary highway, hard surface | Light duty road, hard or improved surface |
| Secondary highway, hard surface | Unimproved road |
| Interstate Route | U S Route / State Route |

BEAR CREEK SCHOOL, MONT.
N4500—W10607.5/7.5

1972

AMS 4774 II SW—SERIES V894

76-162


UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
BIRNEY, MONT
ROAD CLASSIFICATION
Light-duty
Unimproved dirt
MONTANA
QUADRANGLE LOCATION
SCALE 1:50 000
CONTOUR INTERVAL 20 FEET
DOTTED LINES REPRESENT 10-FOOT CONTOURS
DATUM IS MEAN SEA LEVEL
Mapped, edited, and published by the Geological Survey
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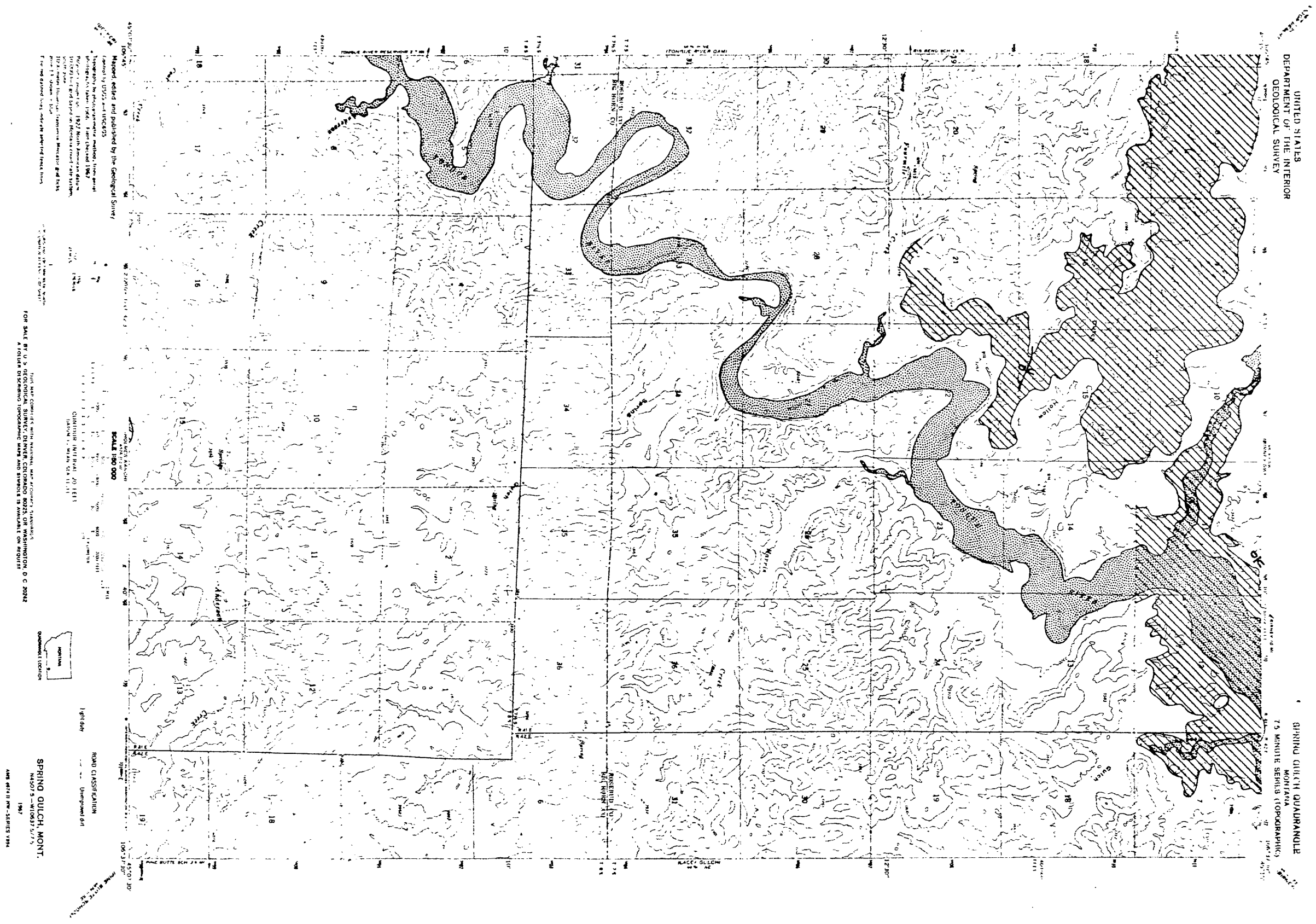
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST


UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
SPRING GULCH QUADRANGLE
MONTANA
7.5 MINUTE SERIES (TOPOGRAPHIC)
SCALE 1:50 000
SPRING GULCH, MONT.
ROAD CLASSIFICATION
Light duty
Unimproved dirt
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A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

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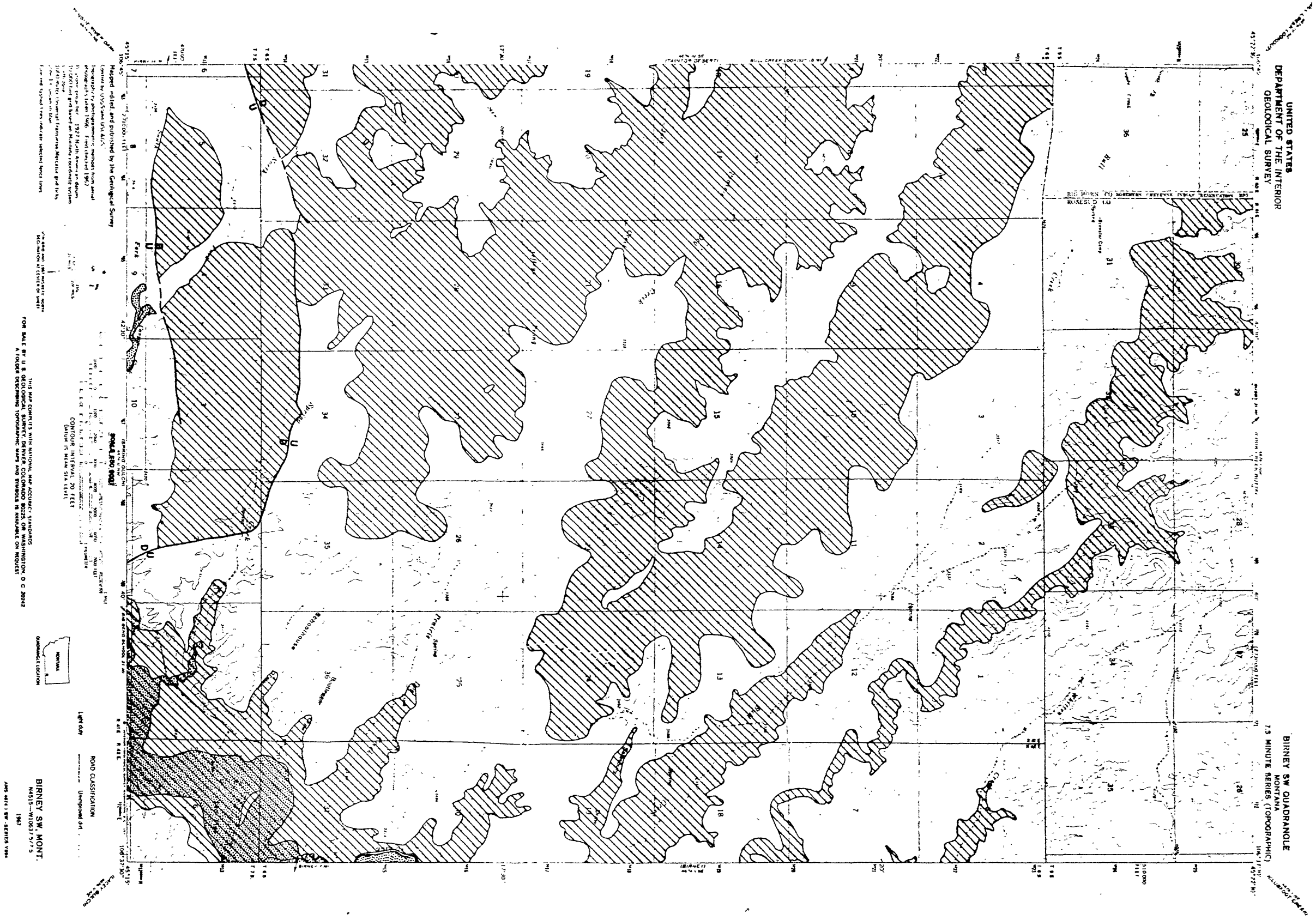
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
BIRNEY SW QUADRANGLE
MONTANA
7.5 MINUTE SERIES (TOPOGRAPHIC)
BIRNEY SW, MONT.
N4515—W10637.5/7.5
1967
ROAD CLASSIFICATION
Light duty
Unimproved dirt
CONTOUR INTERVAL 20 FEET
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A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST
THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
Sprung
Creek
Bull
Prairie
Spring
Schoolhouse
Bullhouse
Fork
Bell
Creek
BIG HORN CO
ROSEBUD CO
MONTANA
QUADRANGLE LOCATION

76-162

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

**BLOOM CREEK QUADRANGLE**
MONTANA–POWDER RIVER CO
7.5 MINUTE SERIES (TOPOGRAPHIC)

Mapped, edited, and published by the Geological Survey

Control by USGS, USC&GS, and U. S. Forest Service

Topography by photogrammetric methods from aerial photographs taken 1969 Field checked 1970

Polyconic projection 1927 North American datum
10,000 foot grid based on Montana coordinate system, south zone
1000 meter Universal Transverse Mercator grid ticks, zone 13, shown in blue

Fine red dashed lines indicate selected fence lines

UTM GRID AND 1970 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 20 FEET
DOTTED LINES REPRESENT 10 FOOT CONTOURS
DATUM IS MEAN SEA LEVEL

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U S GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR WASHINGTON, D. C. 20242
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ROAD CLASSIFICATION

| | |
|---|---|
| Primary highway, hard surface | Light-duty road, hard or improved surface |
| Secondary highway, hard surface | Unimproved road |
| Interstate Route | U S Route / State Route |

MONTANA
QUADRANGLE LOCATION

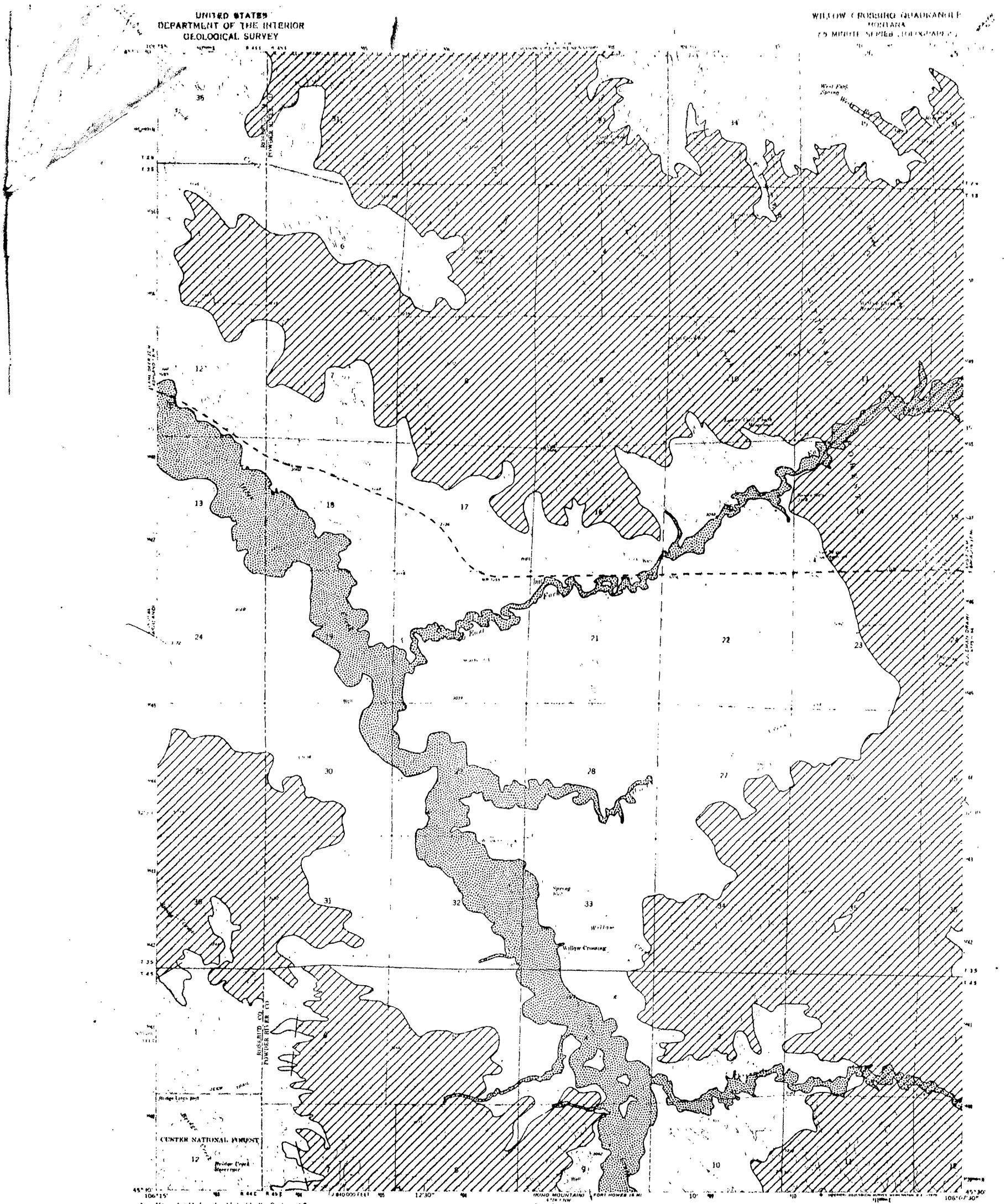
BLOOM CREEK, MONT.
N4507.5—W10545/7.5
1970
AMS 4674 III NE—SERIES V894

94

76-162

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WILLOW CROSSING QUADRANGLE
MONTANA
7.5 MINUTE SERIES (TOPOGRAPHIC)




Mapped, edited and published by the Geological Survey

Control by USGS, USC&GS, and U.S. Forest Service

Topography by photogrammetric methods from aerial photographs taken 1962. Field checked 1966

Polyconic projection. 1927 North American datum
10,000-foot grid based on Montana coordinate system, south zone
1000-meter Universal Transverse Mercator grid ticks, zone 13, shown in blue

Fence lines checked 1966 and other selected fence lines

CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

ROAD CLASSIFICATION

Medium-duty ——— Light duty
Unimproved dirt
U.S. Route

MONTANA
QUADRANGLE LOCATION

WILLOW CROSSING, MONT.
NW/4 WILLOW CR. 15 MINUTE QUADRANGLE
1966

AMS 4179 II SW—SERIES V816

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
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