



United States
Department of
Agriculture

Forest
Service

Manti-LaSal N.F.

Reply to

1590 Defense and Emergency Operations
2880 Geologic Services

243
Date. June 21, 1983

Subject

Landslide Report

To:

William H. Boley, Forest Engineer
Attention: Ted Fitzgerald — *WV*

Attached are four "Mud and Flood" reports. The reports include information on land instability that Carter Reed and I observed in Twelve Mile Canyon and Manti Canyon.

Maureen J. McBrien

MAUREEN J. MCBRIEN
Geologist

Enclosures



Mud and Flood Reporting Form

Merrilee McQueen

Area Twelve Mile CanyonType of Disturbance (i.e. mud flow, slump, etc.) Twinklakea (South)Land Slide (bedrock landslide)Date First Observed June 8, 1983 — surveyed June 9

Location:

Topography North facing slope - Paleo-landslideTopography.Legal Description S $\frac{1}{2}$ S $\frac{1}{2}$ SE $\frac{1}{4}$ sec 31 T19S R3E and
NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec 5 T20S R3E.Impacts to Facilities and Resources

<u>Date</u>	<u>Impacts</u>	<u>Forest Service Actions</u>
June 9, 1983	Material is approx. 12 mile C. Creek at 4-6 feet per 24 hrs. directly across from the North slide which is depositing material at the same rate. Water is sufficient in the creek to erode the deposited landslide material maintaining a channel ~15 feet wide. The slide area is a series of parallel shear fissures with vertical displacement as great as 20 feet. Water is pooling being directed by tension and shear cracks.	... the water is being

Mud and Flood Reporting Form

Area Twelve Mile Canyon

Type of Disturbance (i.e. mud flow, slump, etc.) Twin Lakes (North)

Land Slide

Date ~~May~~ Observed June 6, 1983

Location:

Topography South Facing Slope - Paleos -

topography summocky, step like topography.

Legal Description T19S/R & W 1/2, sec 32, T19SR3E

Impacts to Facilities and Resources

<u>Date</u>	<u>Impacts</u>	<u>Forest Service Actions</u>
June 6	Material is approaching 12 mile C. Creek at 4-6 feet per 24 hrs. water is sufficient to rode deposited land slide material.	
June 7-9	Shear Cracks are evident 1/4 mile from Twin Lake Catastrophic breaching could result.	The F.S. breached the Twin Lakes Reservoir 5 feet in depth. the Before breaching, there a channel had to be built to divert the breach water off of the slide to prevent the possible occurrence of a debris flow. Water flow was 25 cubic feet per second.

Mud and Flood Reporting Form

Area Twelve Mile Canyon Area

Type of Disturbance (i.e. mud flow, slump, etc.) Landslides

Date First Observed 5/24/83

Location:

Topography Slopes of the North and South Forks of Twelve Mile Canyon

Legal Description Sec 32, 33, 28, 4, T19S, R 3E

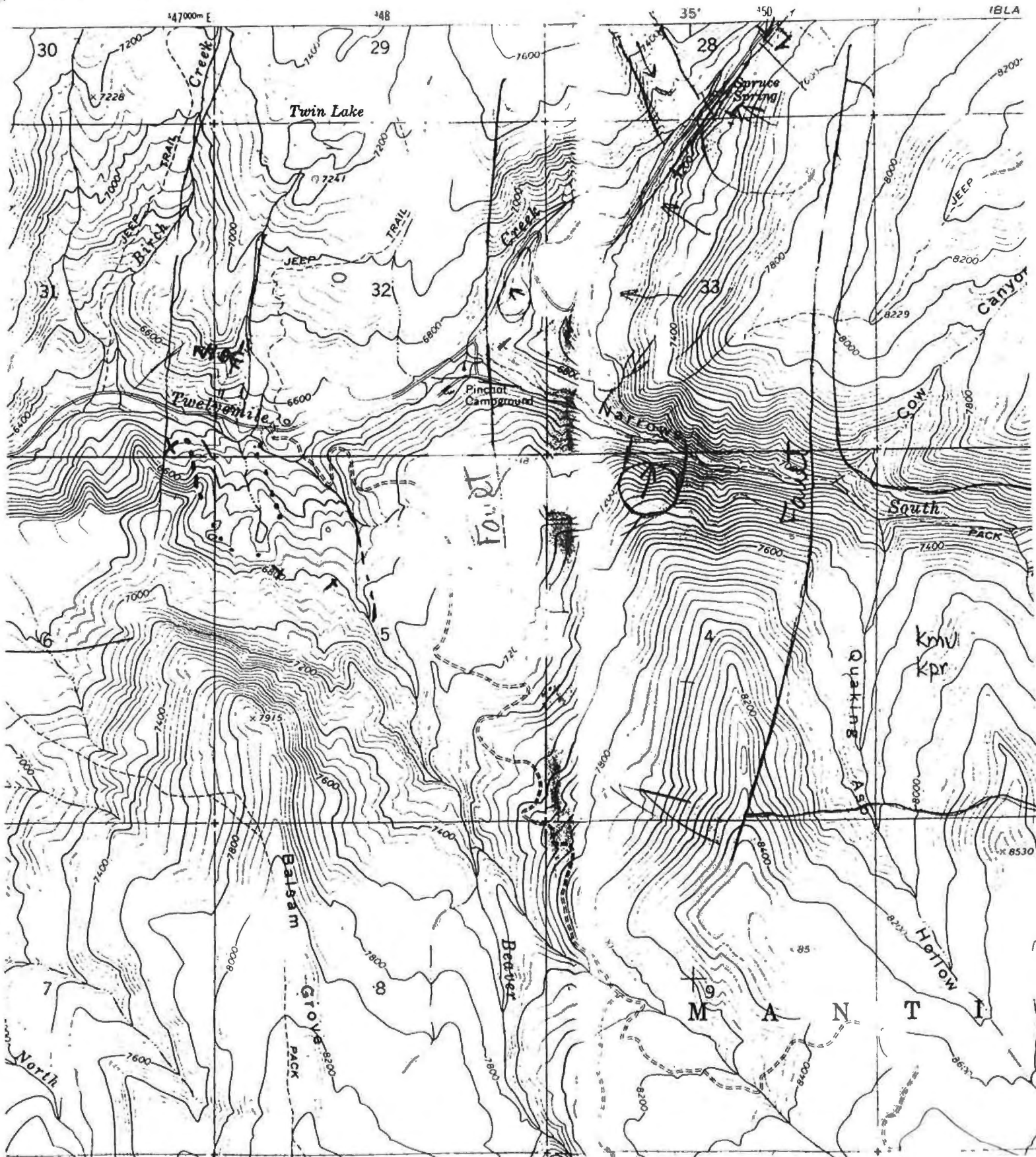
See attached map - photos available

Impacts to Facilities and Resources

<u>Date</u>	<u>Impacts</u>	<u>Forest Service Actions</u>
5/24/83 Carter Reed Ted Fitzgerald	Landslides along the Southeast slope of the North Fork has upheaved, cracked and in a few locations covered the road. The area observed was between the switchback in the road above Pinchat CG - Spruce Spring and the next switchback to the north-east (Snowline). Pinchat CG was flooded due to sliding and flushing of water in the south fork and log jams. Photographs are available	F.S. made an attempt to rescue a private vehicle and a F.S. trailer trapped in the campground. A backhoe cleared the campground access road of a log jam. They were unable to get the truck or trailer free. <u>Photographs in 1590 file</u>

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



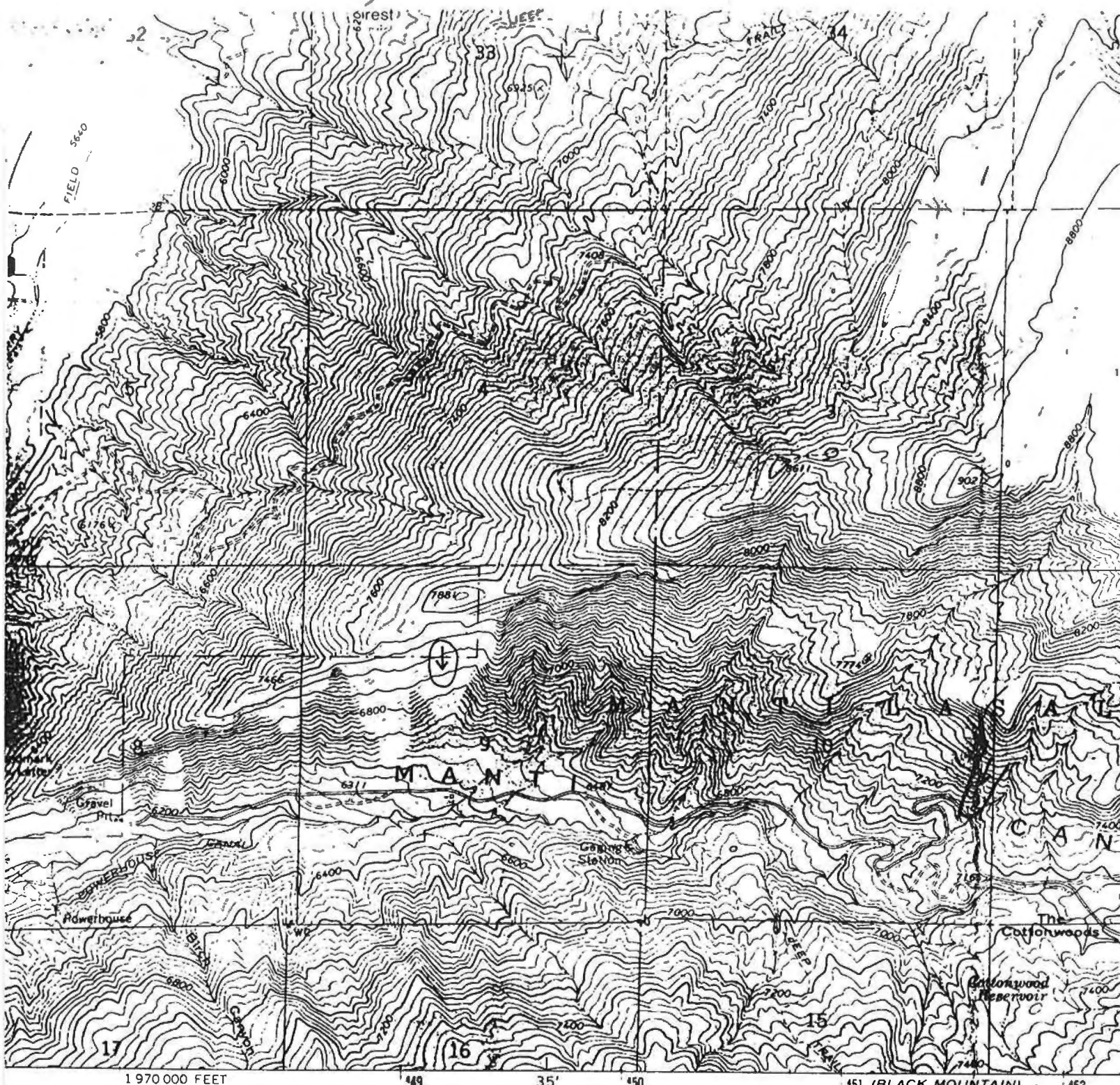
Mud and Flood Reporting Form

Area Manti CanyonType of Disturbance (i.e. mud flow, slump, etc.) landslide, - The
North Slide area has been reactivatedDate First Observed June 2, 1983

Location:

Topography North slope of Manti CanyonLegal Description NE 1/4 SE 1/4 Sec 10, T18S, R3EImpacts to Facilities and Resources

<u>Date</u>	<u>Impacts</u>	<u>Forest Service Actions</u>
6/3/83 Carlen Reed Ed Carlson	The slide has covered the road making the road impassable for approx. 100'	None - the Manti Canyon road is already closed to the public



by the Geological Survey

thods from aerial
ecked 1966

American datum
ordinate system, central zone
erator grid ticks,

ly landmark buildings are shown
ted fence lines

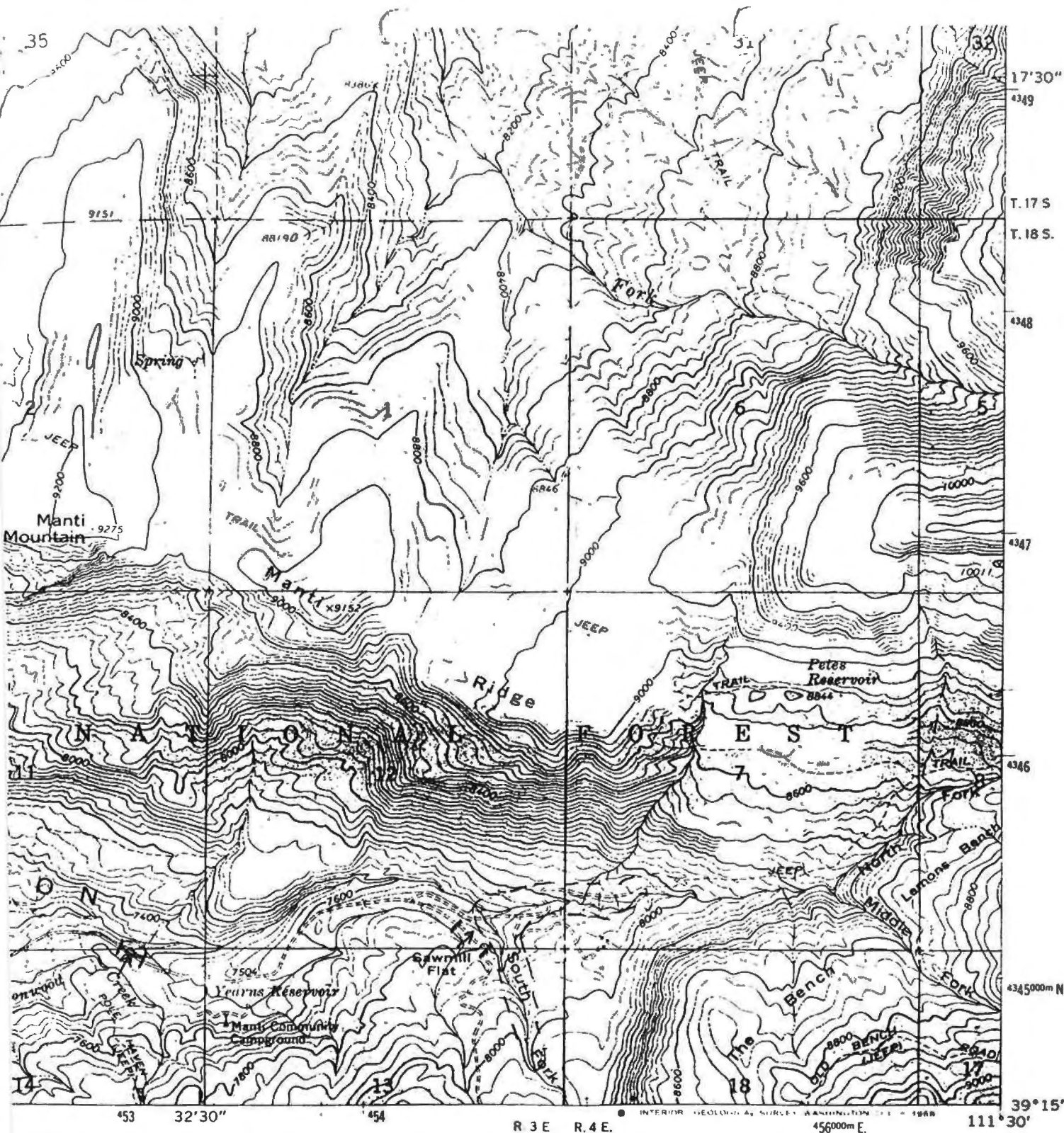
0°22' 16"
6 MILS 284 MILS

GRID AND 1966 MAGNETIC NORTH
ELEVATION AT CENTER OF SHEET

SCALE 1:24,000

CONTOUR INTERVAL 40 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, O
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE

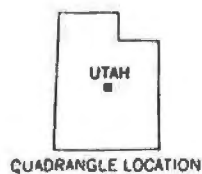


ROAD CLASSIFICATION

Heavy-duty ——— Light-duty

Unimproved dirt

U S Route State Route



EPHRAIM, UTAH

N3915—W11130/7.5

1966

AMS 3662 I SE—SERIES V897

EPHRAIM RESERVE

3762 III NW

Axtell 198

Manti Project