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(for every 1 oversized page (>11x17) with text reduce  
the amount of pages by ~25)

SCANNED: MT 1.06.10  
Initials Date





# United States Department of the Interior

## GEOLOGICAL SURVEY

Branch of Western Mineral Resources  
345 Middlefield Road  
Menlo Park, California 94025

October 31, 1979

Dr. D. I. Axelrod  
Department of Botany  
University of California-Davis  
Davis, California 95616

Dear Ax:

Some time ago, you mentioned in a note a locality for Tertiary leaves "almost certainly Barstovian" which you called the Thurston Spring locality. Is that the Thurston Spring shown on the map of the Wine Cup Ranch SW quadrangle (copy enclosed)? If so, could you indicate the position of the locality on one copy of the map and mail back to me? Keep the other copy for your trouble. Did you do any stratigraphic work here? There is a very thick Tertiary section to the east, as you no doubt know, but how to subdivide it is perplexing.

Best regards,

Robert R. Coats  
Research Geologist

Enclosure

Site is in Sec. 1, on the south slope (as usual), in the opaline shales. Flora is not large. Would be late Miocene and would not indicate more probably Clarendonian (ie. 10-12 m.y) than Barstovian which reaches down to 16-m.y.

Best wishes,

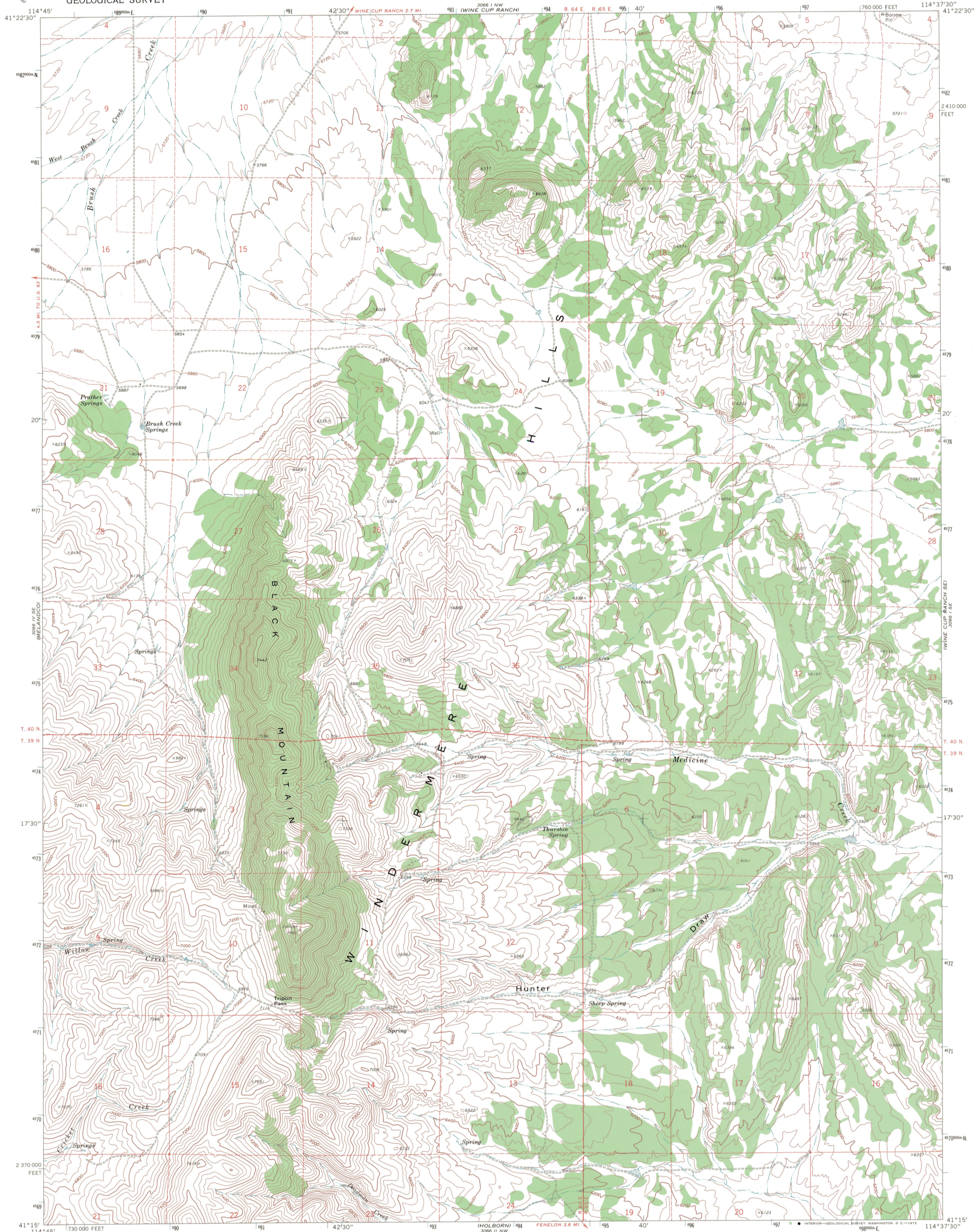
Daniel I. Axelrod



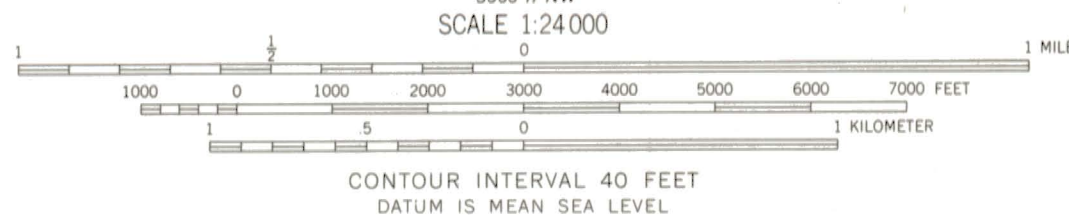
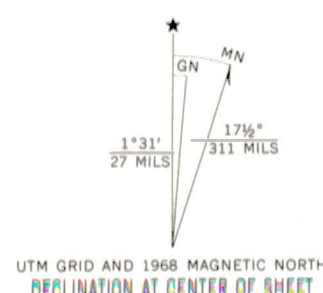


UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

WINE CUP RANCH SW QUADRANGLE  
NEVADA—ELKO 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 1967. Field checked 1968  
Polyconic projection. 1927 North American datum  
10,000-foot grid based on Nevada coordinate system, east zone  
1000-meter Universal Transverse Mercator grid ticks,  
zone 11, shown in blue  
Fine red dashed lines indicate selected fence lines



ROAD CLASSIFICATION  
Unimproved road, fair or dry weather

WINE CUP RANCH SW, NEV.  
N4115—W11437.5/7.5

1968  
AMS 3066 I SW—SERIES V896

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

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