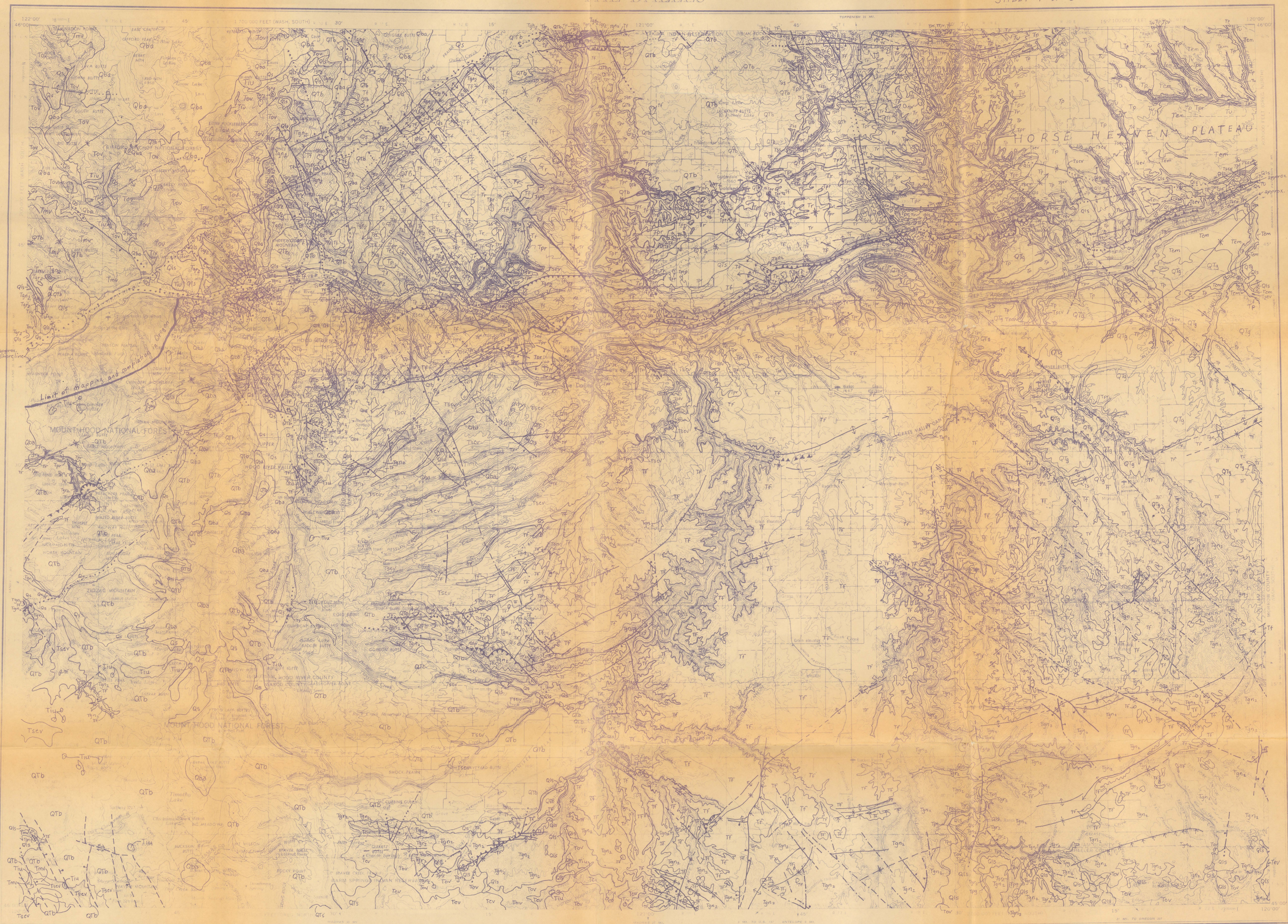


200)
R290
no 81-797

WESTERN UNITED STATES 1:250,000

BUTTE DALLES

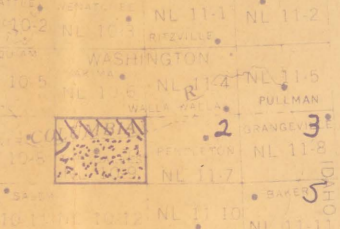


LOS ANGELES
OMAHA
GALVESTON
Laramie
Grand Coulee

Scale 1:250,000
CONTOUR INTERVAL 200 FEET
WITH SUPPLEMENTARY CONTOURS AT 100 FOOT INTERVALS
TRANSVERSE MERCATOR PROJECTION



LOCALITY DIAGRAM



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

MAPPING AND COMPILATION IN 1978-80 CONDUCTED UNDER INTERAGENCY AGREEMENT NO. EW-78-1-06-1078 WITH THE U.S. DEPARTMENT OF ENERGY IN SUPPORT OF THE BASALT WASTE ISOLATION PROGRAM ADMINISTERED BY ROCKWELL HANFORD OPERATIONS.

RECONNAISSANCE GEOLOGIC MAP OF THE COLUMBIA RIVER BASALT GROUP, NORTHERN OREGON AND WESTERN IDAHO

BY D.A. SWANSON, J.L. ANDERSON, V.E. CAMP, P.R. HOOPER, W.H. TAUBENECK, AND T.L. WRIGHT

1981

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

Responsibility map
35 Anderson
W.H. See Swanson and others (1979) for responsibility

Geology mapped and compiled in 1980. Geology along Columbia River east of John Day Dam modified from Portland General Electric Co. (1974). Distribution of units other than Columbia River Basalt Group west of 121° 15' simplified from Wells and Peck (1961), Wise (1968), and Waters (1968), and south of 45° 10' simplified from Hammond and others (1980), Waters (1968), and Robinson (1975). Unpublished map by B. Vogt was helpful in the Bull Run watershed. These maps by Cockerham (1979), Anderson (1978), Powell (1980), and THE DALLES, OREGON, WASHINGTON TIMM (1979) were useful in the Butte Creek, Clackamas River, Tygh Valley, and Hood River areas respectively. Distribution of Columbia River Basalt Group and some structural detail west of 120° 45' modified from Waters (1968) and Newcomb (1969; 1970). Unpublished mapping in Old Maid Flat and Salmon River areas courtesy of M. Beeson and M. Moran. Anderson assisted by C. Maxwell. Mapping in Washington from Swanson and others (1979).

SPECIAL PRINTING
Contours and woodblock symbols omitted