WESTERN UNITED STATES 1:250,000

THE DALLES

NL 10-9

UNITED STATES GEOLOGICAL SURVEY
OPEN-FILE REPORT 81-797
SHEET 1 OF 6

• INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D.C.—1965

SPECIAL PRINTING
Contours and woodland symbols omitted

LEGEND

ROAD DATA 1980 PARTIALLY REVISED 1984

POPULATED PLACES
Over 500,000 — LOS ANGELES
100,000 to 500,000 — OMAHA
25,000 to 100,000 — GALVESTON
5,000 to 25,000 — Laramie
1,000 to 5,000 — Grand Coulee
Less than 1,000 — Sun Valley

RAILROADS
Standard gauge
Narrow gauge

BOUNDARIES
International
State
County
Park or reservation

ROADS
Hard surface, heavy duty
More than two lanes wide — 3 LANES | 4 LANES
Two lanes wide, Federal route marker
Hard surface, medium duty — 3 LANES | 4 LANES
More than two lanes wide
Two lanes wide, State, Interstate route markers
Improved light duty
Unimproved dirt
Trail

Landplane airport
Landing area
Seaplane airport
Orchard
Woods-brushwood

Landmarks: School; Church; Other
Horizontal control point
Spot elevation in feet
Marsh or swamp
Intermittent or dry stream
Power line

Scale 1:250,000
5 0 5 10 15 20 Statute Miles
5 0 5 10 15 20 25 30 Kilometers
5 0 5 10 15 Nautical Miles

CONTOUR INTERVAL 200 FEET
WITH SUPPLEMENTARY CONTOURS AT 100 FOOT INTERVALS
TRANSVERSE MERCATOR PROJECTION

1960 MAGNETIC DECLINATION FOR THIS SHEET VARIES FROM 21°00' EASTERLY FOR THE CENTER OF THE WEST EDGE TO 20°30' EASTERLY FOR THE CENTER OF THE EAST EDGE. MEAN ANNUAL CHANGE IS 0°02' WESTERLY

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

LOCATION DIAGRAM

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

SECTIONIZED TOWNSHIP

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

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 (1978). Unpublished map by B. Vogt was helpful in the Bull Run watershed. Thesis maps by Cockerham (1974), Anderson (1978), Powell (1980), and 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).

THE DALLES, OREGON; WASHINGTON
1953
LIMITED REVISION 1964