RHO-BWI-ST-4

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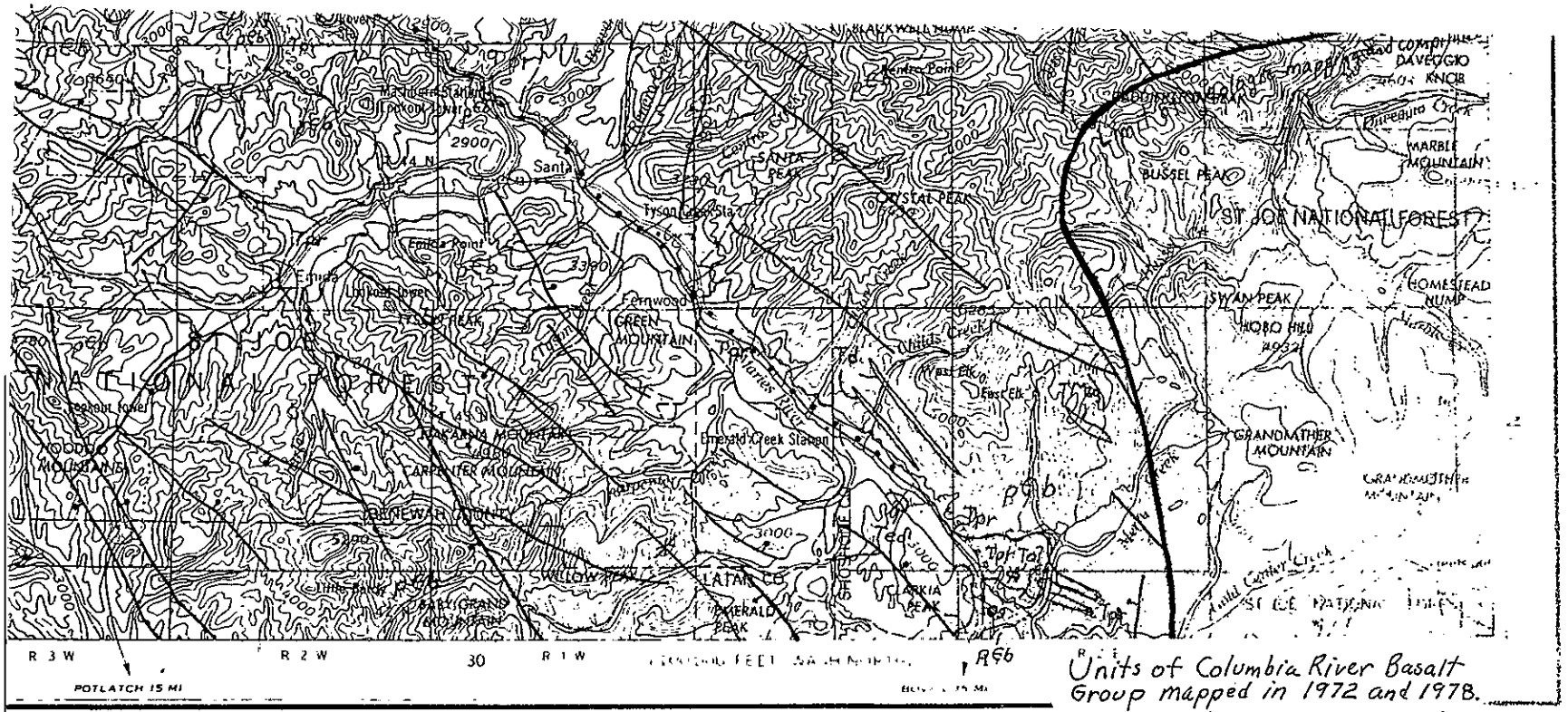
2 of 11

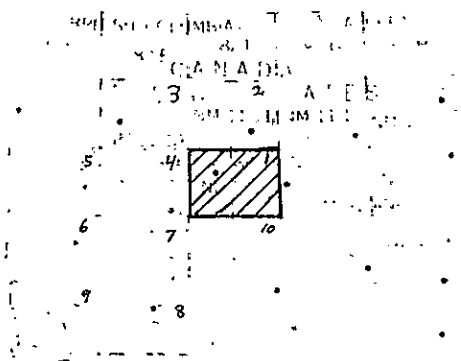
PLATES II-1 THROUGH II-10 RECONNAISSANCE GEOLOGIC MAP OF THE COLUMBIA RIVER BASALT GROUP IN EASTERN WASHINGTON AND NORTHERN IDAHO

Geologic Studies of the
COLUMBIA PLATEAU
A Status Report



Units of Columbia River Basalt Group mapped in 1972 and 1978. Other geology simplified and generalized from Griggs (1973) and Hietanen (1963)

LOCATION DIAGRAM FOR NL



Responsibility map
Swanson and Wright

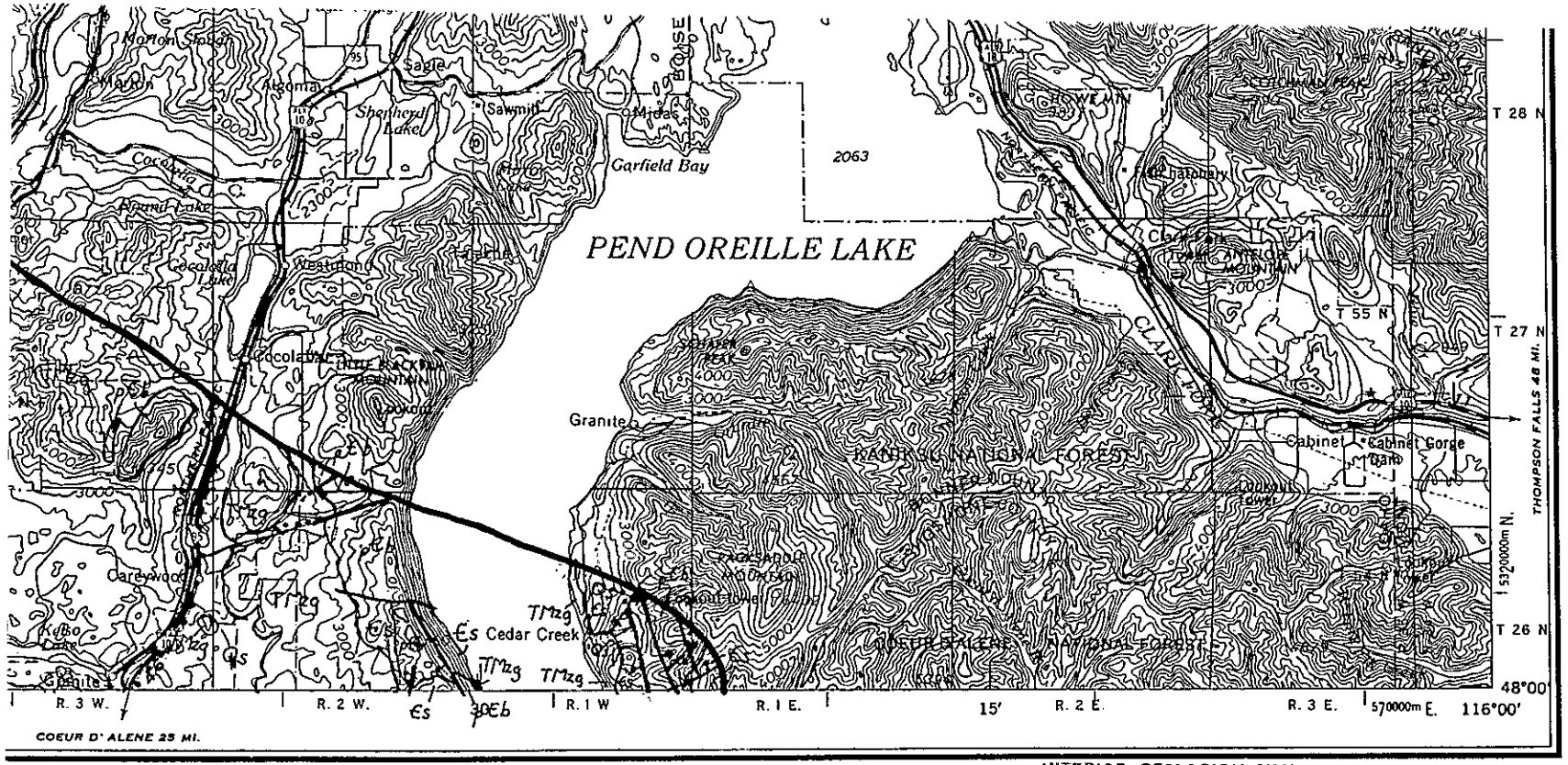
RHO-BWI-ST-4

PLATE II-1

UP

GHT

☆ U.S. GOVERNMENT PRINTING OFFICE: 1980—696-706



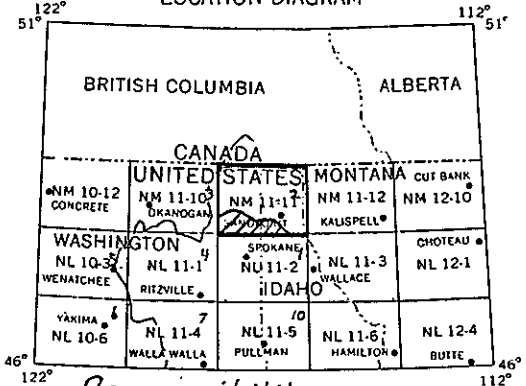
• INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D.C.— 1966

20 Statute Miles

meters

es

LOCATION DIAGRAM



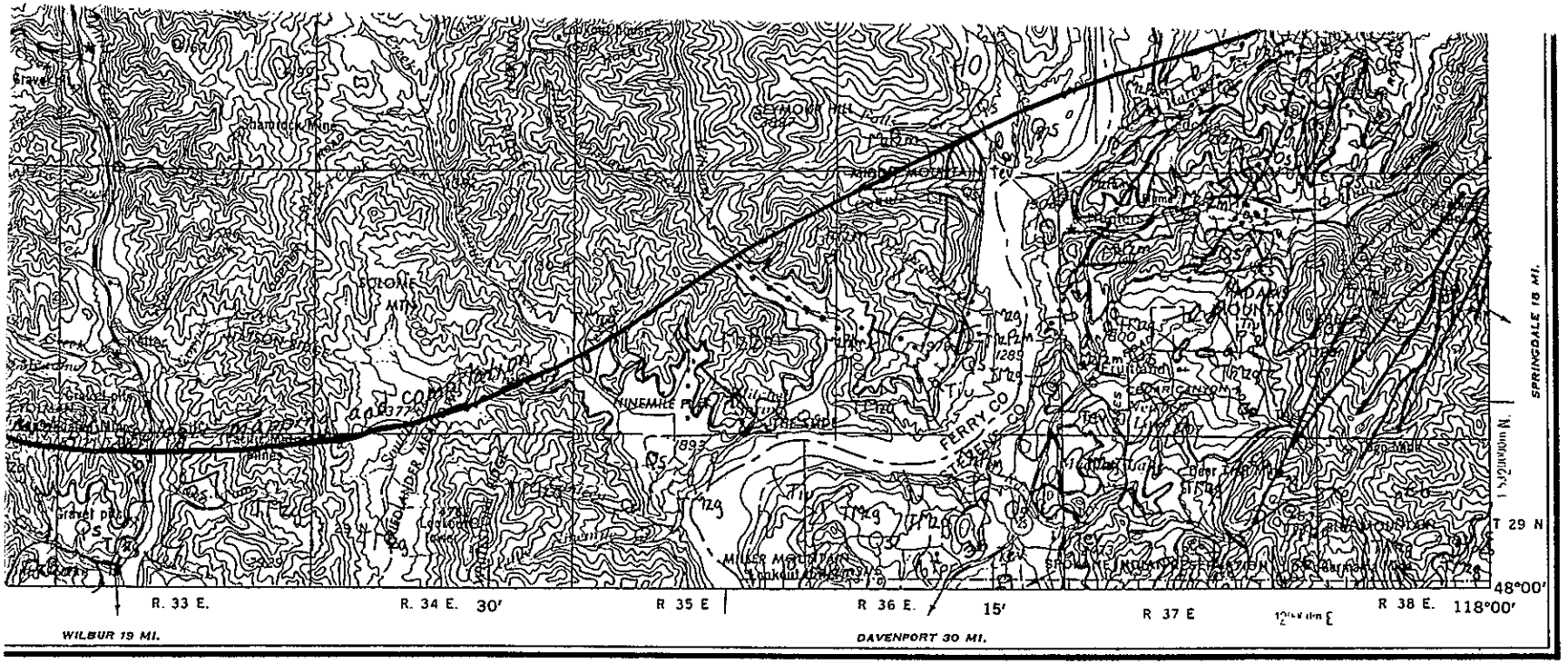
Responsibility map

Swanson and Wright

RHO-BWI-ST-4

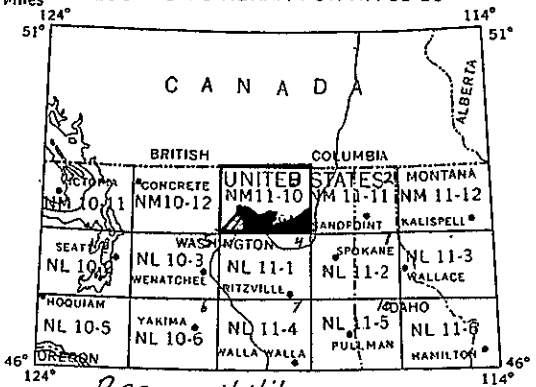
PLATE II-2

Units of Columbia River Basalt Group mapped in 1978. Other geology simplified and generalized from Miller and Yates (1976), Miller and Clark (1975), Harrison and Jobin (1965), Harrison and others (1972), Clark (1967; 1973), Bond (1978), and Aadland and Bennett (1979)



20 Statute Miles
lometers
iles

LOCATION DIAGRAM FOR NM 11-10



Responsibility map

■ Swanson and Wright
⦶ Swanson and Byerly

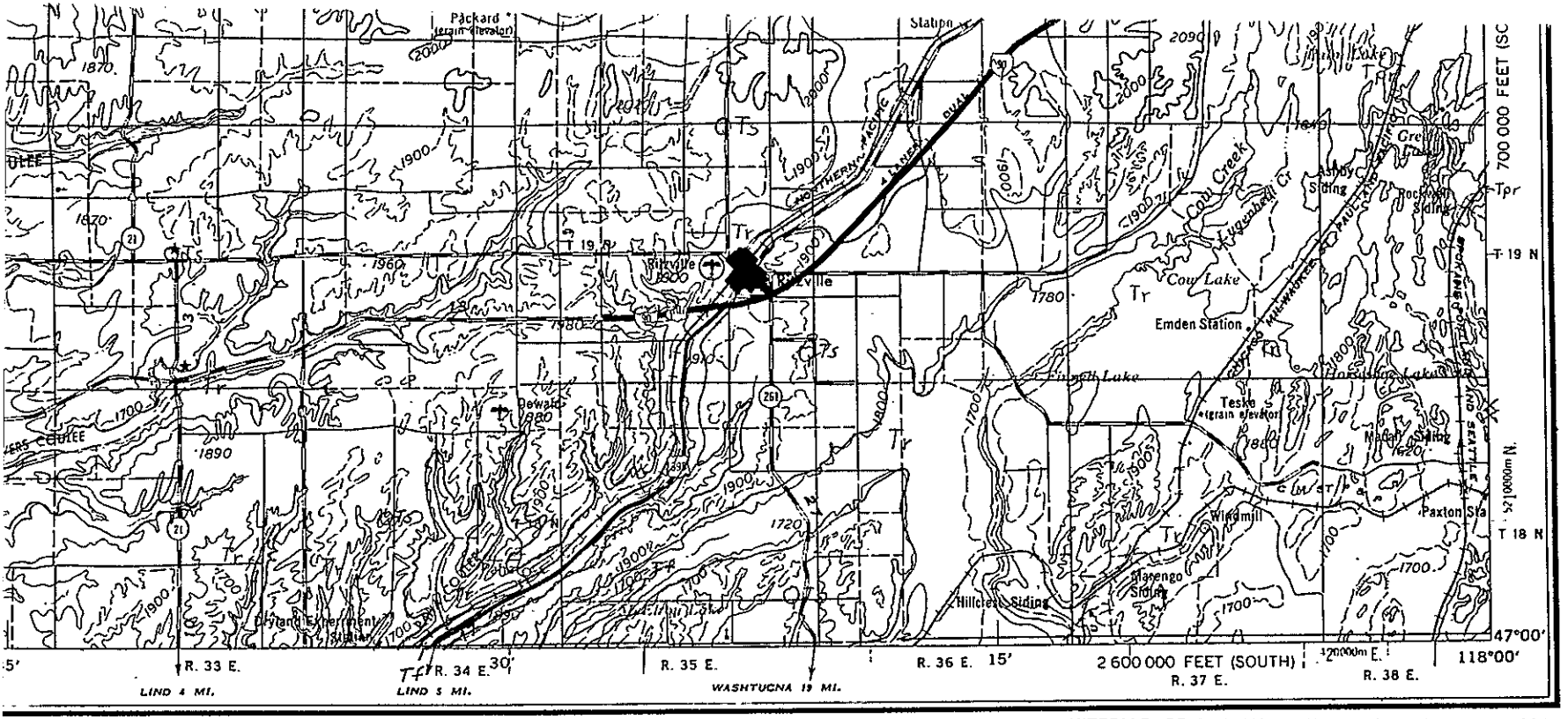
UP

GHT

Units of Columbia River Basalt Group mapped in 1978-79. Other geology simplified and generalized from Campbell and Raup (1964), Becraft (1966), Clayton (1977), and Pardee (1918)

RHO-BWI-ST-4

PLATE II-3



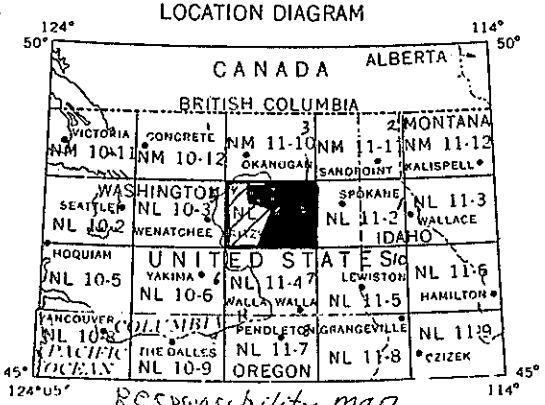
● INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D.C.—1966
TOWNSHIP OR RANGE LINE
LAND GRANT BOUNDARY

20 Statute Miles
ilometers
Miles

ROUP

WRIGHT

LOCATION DIAGRAM

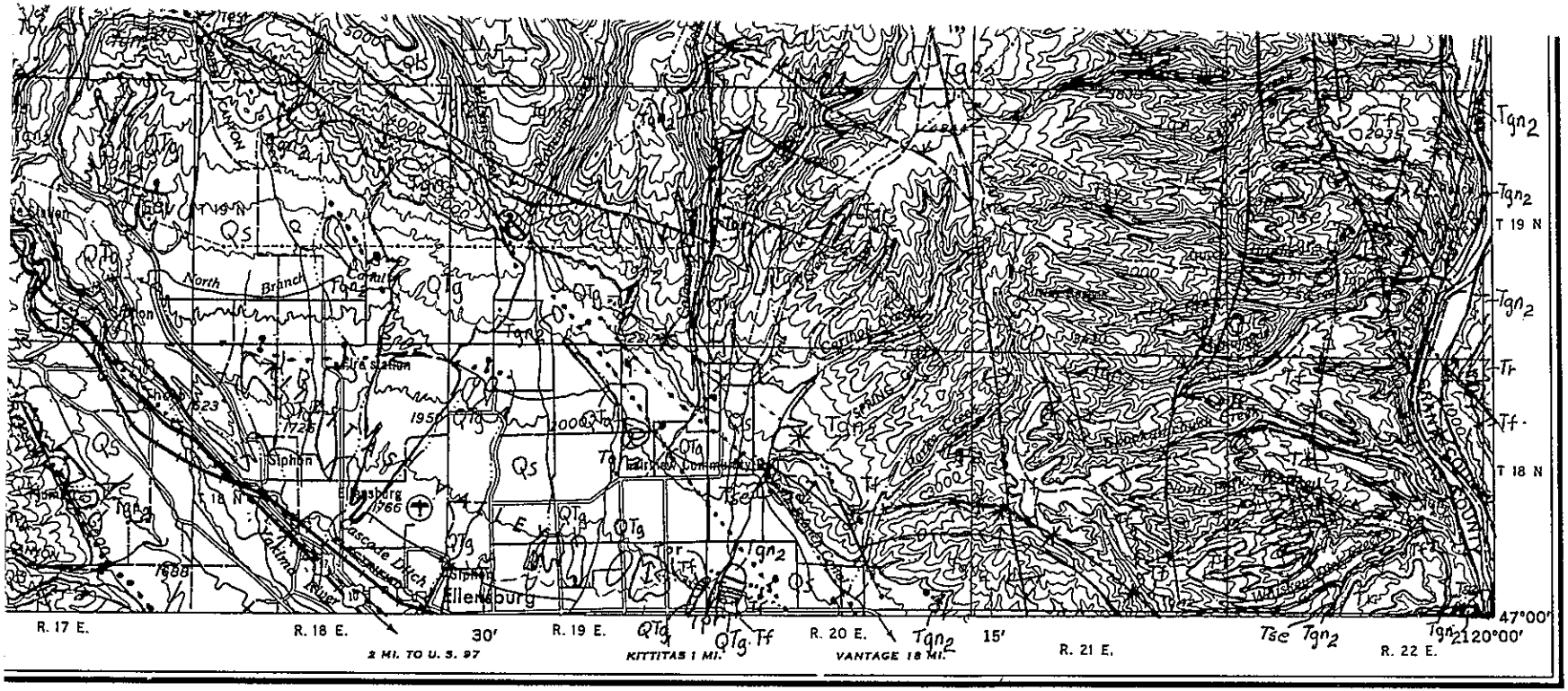


Responsibility map
● Swanson and Wright
⊘ Swanson and Byerly

Units of Columbia River Basalt Group mapped in 1978-79. Other geology simplified and generalized from Becraft and Weiss (1963) and Clayton (1977). The map by Grolier and Bingham (1971) aided in mapping the basalt in the southwest part of the area, as did that by Pardee (1918) north of the Columbia River

RHO-BWI-ST-4

PLATE II-4



INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D.C.—1964

20 Statute Miles
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meters
es

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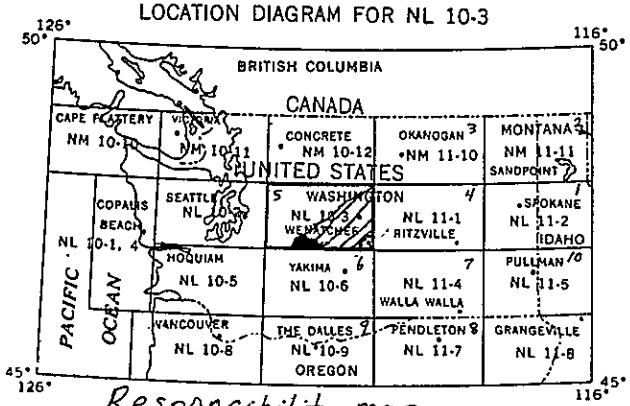
LOCATION DIAGRAM FOR NL 10-3



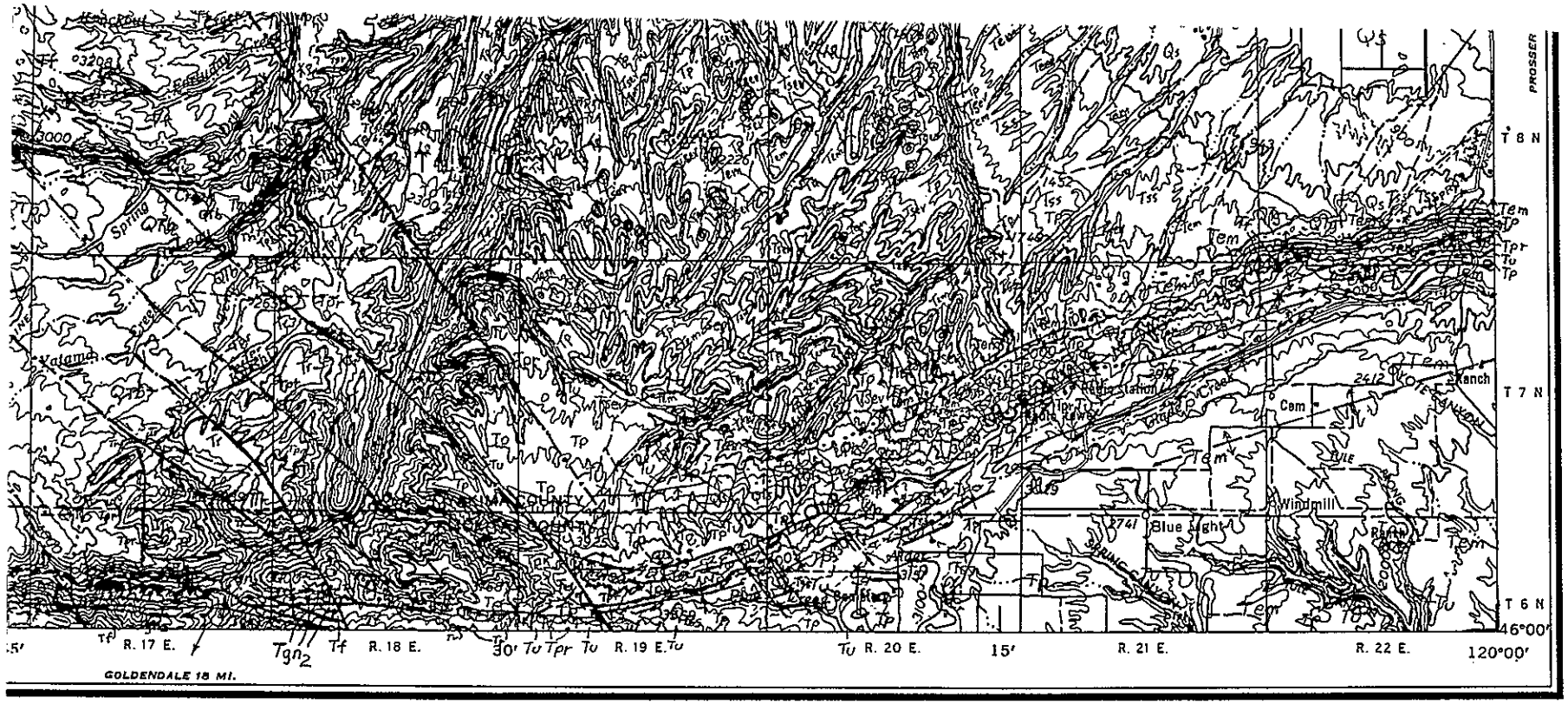
Responsibility map

- Swanson and Byerly
- Swanson, Byerly, and Bentley
- Bentley and Swanson

Units of Columbia River Basalt Group mapped in 1976-78 and shown in greater detail by Tabor and others (in press) in area south of Wenatchee and east of Roslyn. Other geology simplified and generalized from Clayton (1977), Tabor and others (in press), R.W. Tabor and V.A. Frizzell, Jr. (writ. commun., 1978), P.E. Hammond (writ. commun., 1978), and Bentley (1977).

RHO-BWI-ST-4

PLATE II-5



INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D.C.—1964

20 Statute Miles

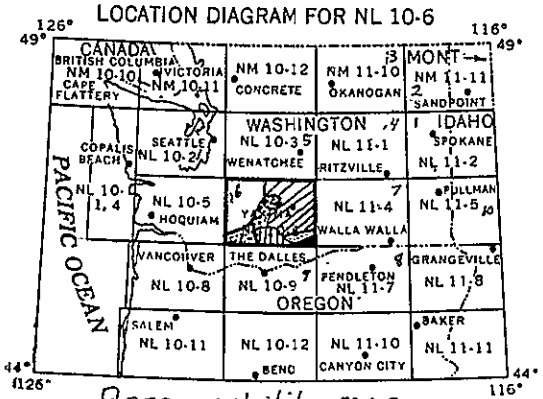
ometers

les

)UP

IGHT

LOCATION DIAGRAM FOR NL 10-6



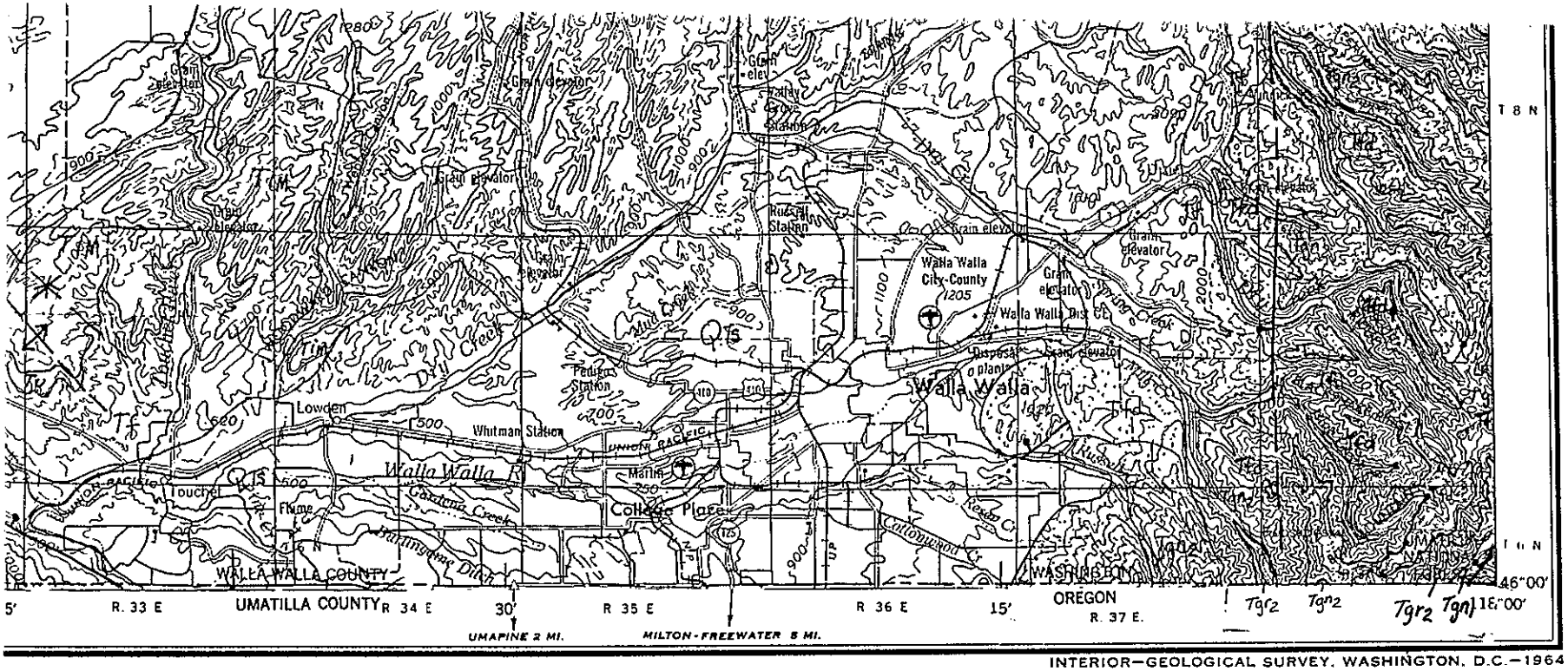
Responsibility map

- Bentley
- Gardner
- Swanson
- Anderson

Units of Columbia River Basalt Group mapped in 1973-79. Other geology simplified and generalized from Bentley (1977), Swanson (1978), and Hammond (1980), with reconnaissance work by Swanson in 1979 in the upper Klickitat River and Ahtanum Creek drainage basins. Bentley assisted by G. Potts and D. Tahkeal, Anderson by T. Tolan. Some fold and monoclinal axes omitted for clarity.

RHO-BWI-ST-4

PLATE II-6



INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D.C.—1964

20 Statute Miles

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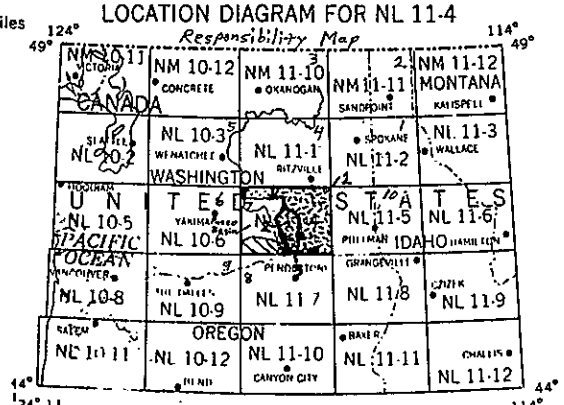
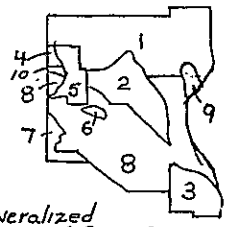
LOCATION DIAGRAM FOR NL 11-4

Responsibility Map



Gardner
Swanson
Bentley
Swanson and Others (1977) (east of bold line on map)
1. Swanson and Wright
2. Helz and Swanson
3. Gardner

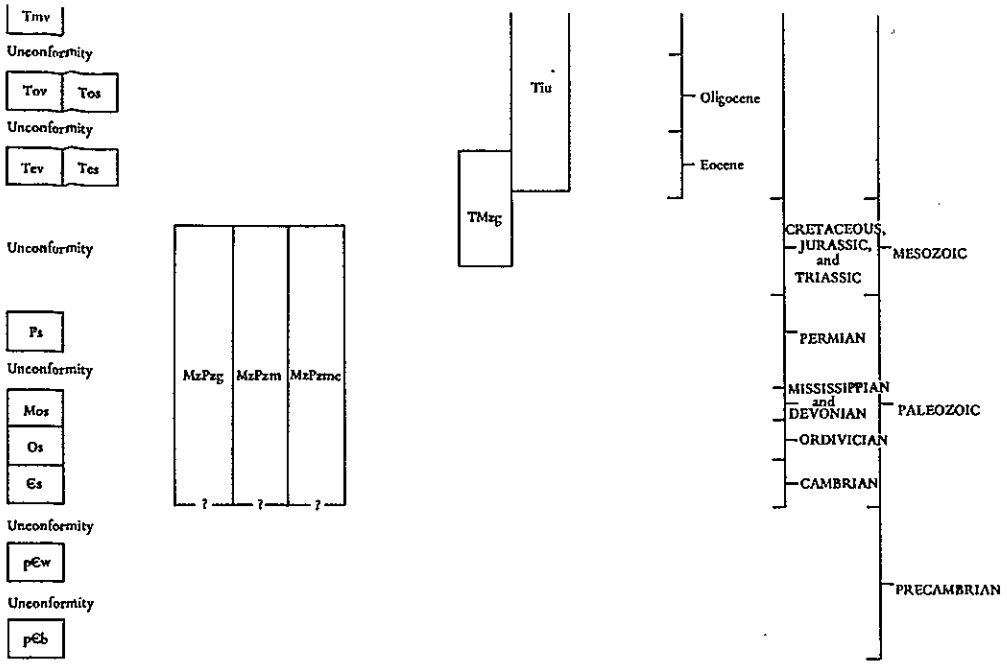
PASCO BASIN RESPONSIBILITY Geology mapped in 1978 and 1979



Generalized Geology of Pasco Basin compiled by S.P. Reidel from 1:62,500 map (Plate III-1). Responsibility for this mapping as follows (R, Rockwell; G, Geoscience Research Consultants): 1, S.P. Reidel (R); 2, K.R. Fecht (R); 3, M.G. Jones and R.D. Landon (R); 4, E.H. Price (R); 5, F.E. Goff (R); 6, Jones, Price and J.N. Gardner (R); 7, Reconnaissance by S.P. Reidel (R); 8, J.G. Bond, J.D. Kauffman, W. Barrash, D.A. Miller, J.C. Brown, and J.H. Bush (G) and J.N. Gardner (R); 9, modified from Swanson and Helz (1979); 10, R.D. Bentley (R). Surficial deposits from Grolier and Bingham (1971) modified by J.T. Lillie (R). Revised version of Swanson and Others (1977) to be published in 1980; see Plate III-1 for outcrop map in Esquatzel Coulee area.

RHO-BWI--ST-4

PLATE II-7



Vent area with map symbol of unit in vent

Twe

Dike with map symbol of unit fed by dike

● INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D.C.—1964

20 Statute Miles

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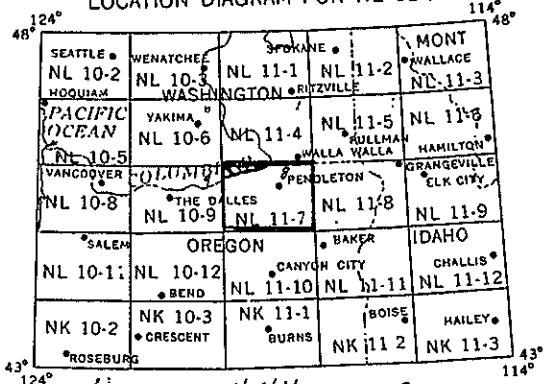
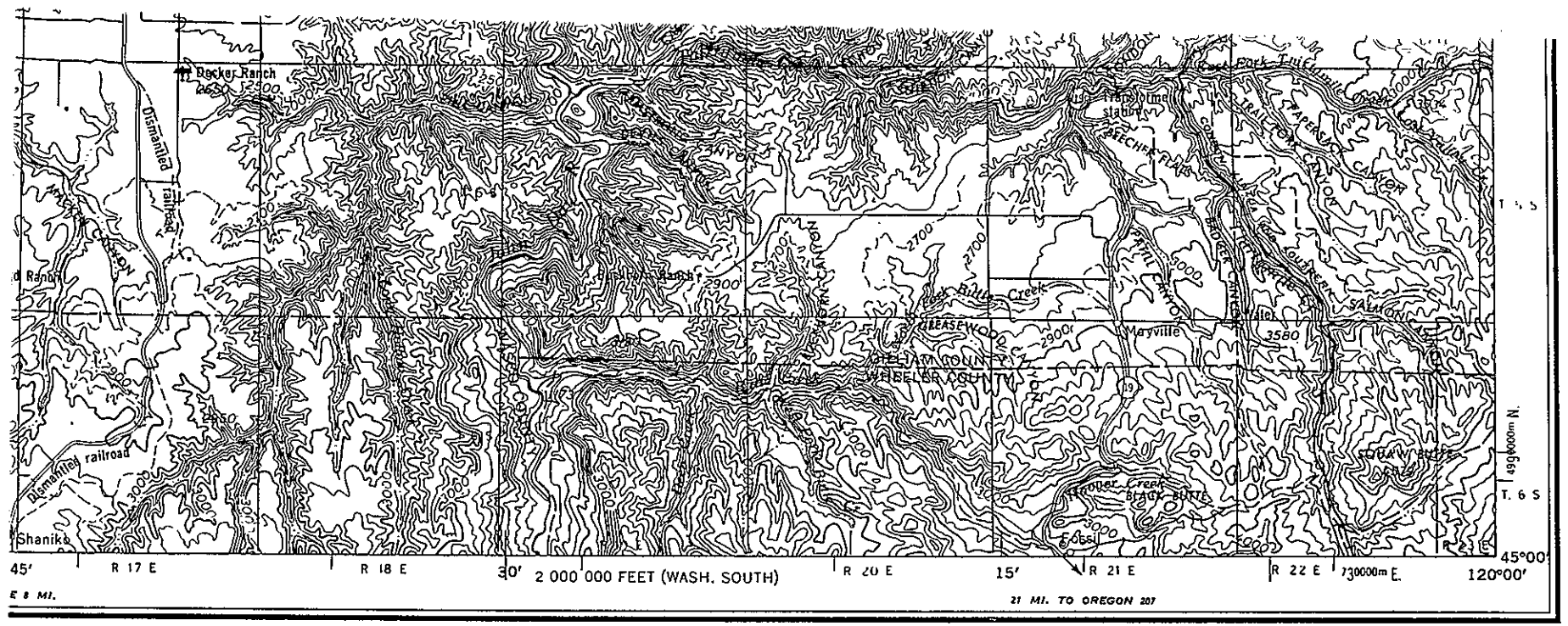
LOCATION DIAGRAM FOR NL 11-7



Responsibility map
\\\ Gardner
• Anderson

Geology mapped in 1978-79. Gardner assisted by M. Ortega, Anderson by T. Tolan. Some geology modified from Portland General Electric Co. (1974), Newcomb (1971), and Walker (1973)

RHO-BWI-ST-4
PLATE II-8

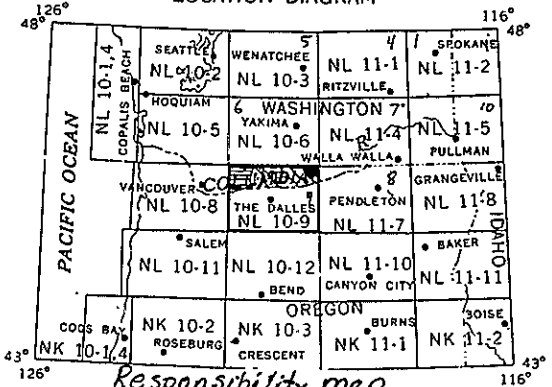


• INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D.C.—1965

20 Statute Miles

meters

LOCATION DIAGRAM



Responsibility map
● Gardner
Ⓓ Simplified from Sylvester (1978)
Swanson
Bentley
Anderson

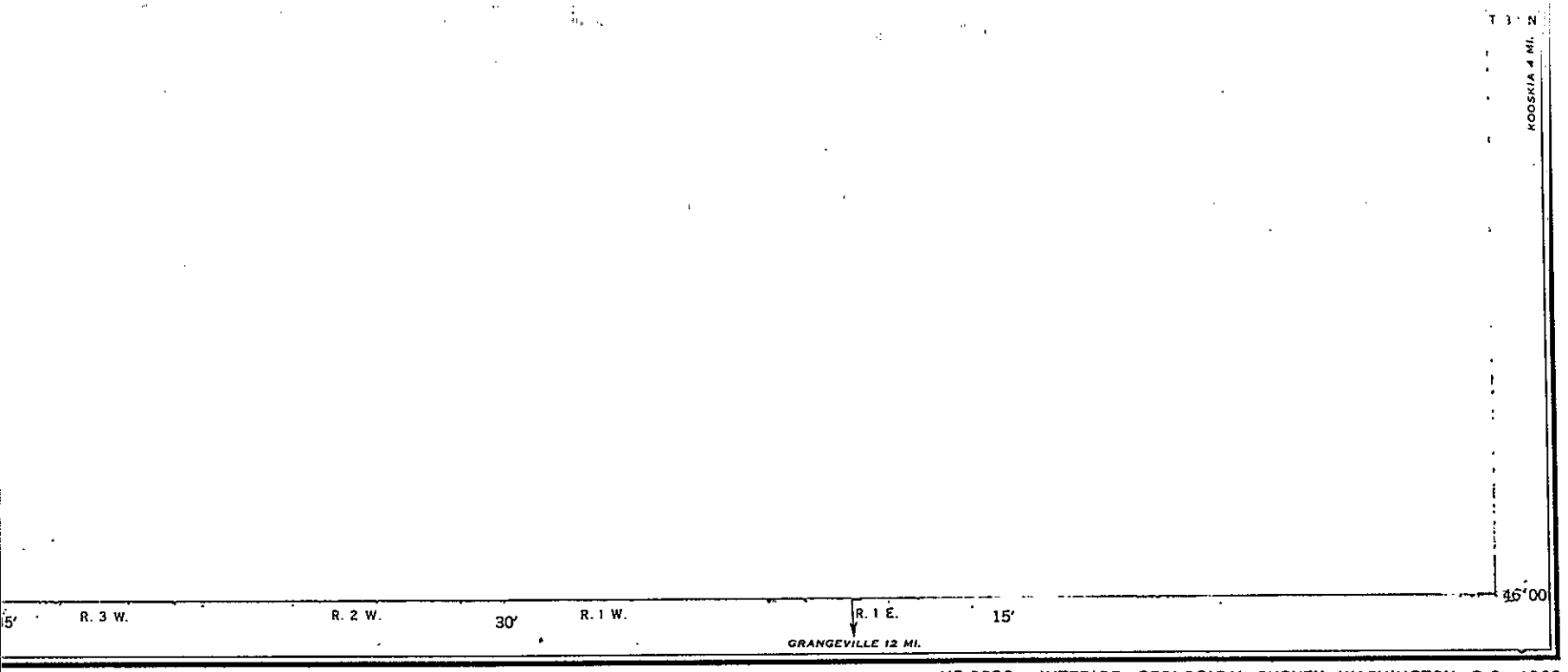
Geology mapped in 1978-79. Geology southeast of Brickleton modified from Strait (1978). Geology along Columbia River modified from Portland General Electric Co. (1974). Distribution of units other than Columbia River Basalt Group west of 121°15' simplified from Hammond (in press). An unpublished map by J. Powell was helpful in mapping the western part of the Columbia Hills. Anderson was assisted by T. Tolan, Gardner by M. Ortega

LT GROUP

D T.L. WRIGHT

RHO-BWI-ST-4

PLATE II-9



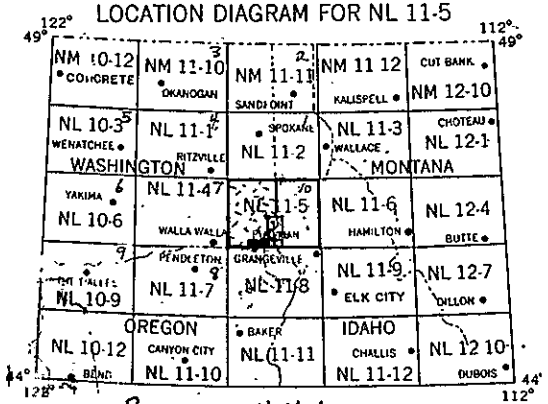
MR 8608 INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D.C.—1963

20 Statute Miles

lometers

iles

LOCATION DIAGRAM FOR NL 11-5



Responsibility map

- D.A. Swanson and T.L. Wright
- V.E. Camp
- S.A. Price
- M.E. Ross
- S.P. Reidel (1978)

UP

* Mapped area in northern Idaho deleted

RHO-BWI-ST-4

PLATE II-10