



**Geology BY**  
**L F HUNTZE**  
**9 SEPT 52**

Plotted from highway  
Traverse. Secondary  
roads too muddy to  
traverse.

■ = Columbia River  
Basalt along  
Road.

Virtually the  
entire quadrangle  
is inferred to be  
Columbia River Basalt  
except for those  
small areas otherwise  
indicated

Pre-Tertiary  
Avg. lite, greenstones  
Volcanic agglomerates.

Rotten granite

Rotten metamorphics

(COURT ROCK)

(MONUMENT)

(DALE)

Mapped, edited and published by the Geological Survey  
Control by USGS, USCGS, and OSHD  
Topography from aerial photographs by multiple methods  
Aerial photographs taken 1946. Field check 1950  
Poleonic projection. 1927 North American datum  
10,000 foot grid based on Oregon coordinate system,  
north zone  
Dashed land lines indicate approximate location

TRUE NORTH  
MAGNETIC NORTH  
APPROXIMATE MEAN  
DECLINATION, 1950

SCALE 1:62,500  
(LONG CREAK)  
LONG CREAK 2.5 MI. (R 30 E)  
LONG CREAK 2.5 MI. (R 29 E)

CONTOUR INTERVAL 40 FEET  
DATHIN IS MEAN SEA LEVEL

ROAD CLASSIFICATION  
Heavy-duty  
Medium-duty  
Light-duty  
Unimproved dirt  
U.S. Route  
State Route

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THIS MAP CONFORMS WITH NATIONAL MAP ACCURACY STANDARDS  
A ROUTER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

BITTER OREG.  
N4445-W11900/15  
EDITION OF 1952