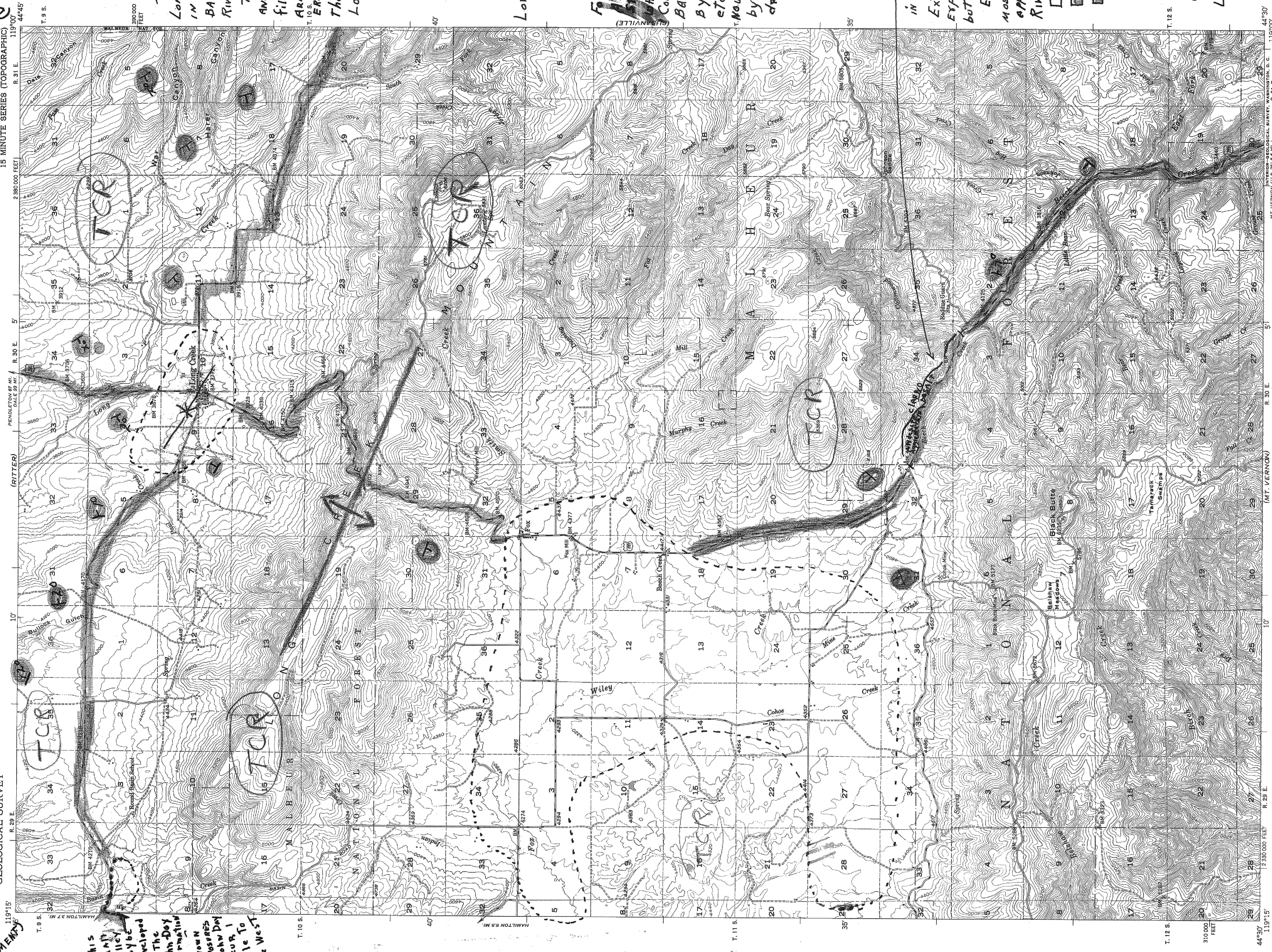


UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LONG CREEK QUADRANGLE
OREGON-GRANT CO.
15 MINUTE SERIES (TOPOGRAPHIC)

(MONUMENT)



This small valley MAYBE developed on the John Day formation known as Exposures of John Day occur 1 mile to the West

THE TOWN OF LONG CREEK IS IN A STRUCTURAL BASIN ON COLUMBIA RIVER BASALT. THE ASH BEADS AND ALLUVIUM WHICH FILLED THE BASIN ARE NOW BEING ERODED AWAY BY THE DOWNCUTTING OF LONG CREEK.

LONG CREEK MT. IS AN ANTICLINE.

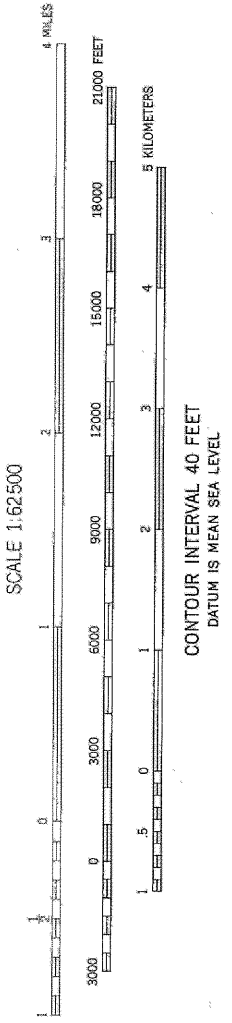
FOOT VALLEY IS A LARGE STRUCTURAL BASIN WHEREIN THE COLUMBIA RIVER BASALT IS COVERED BY ALLUVIUM, TUFFS etc WHICH ARE NOW BEING EXHUMED BY FOX CREEKS DRAINAGE

CLARNO APPEARS IN CORE OF ANTICLINE EXTENT OF CLARNO EXPOSURE NOT KNOWN BUT NEEDS CHECKING. EXCEPT FOR THIS MOST OF QUADRANGLE APPEARS TO BE COLUMBIA RIVER BASALT.

☐ = Valley fill
☐ = Tuff = Columbia River basalt
☐ = CLARNO FM

Geology by
L. F. HINTZE
Sept 1952

ROAD CLASSIFICATION
HARD-SURFACE ALL WEATHER ROADS
HEAVY-DUTY
MEDIUM-DUTY
LOOSE SURFACE, GRADED, OR NARROW HARD SURFACE
DRY WEATHER ROADS
IMPROVED DIRT
UNIMPROVED DIRT
U. S. Route
State Route



LONG CREEK, OREG.
N4430-W11900/15

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, FEDERAL CENTER, DENVER, COLORADO OR WASHINGTON 25, D. C.
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

EDITION OF 1951

Mapped, edited, and published by the Geological Survey
Control by USGS, USCGS, and OSHD
Topography from aerial photographs by multiplex methods
Aerial photographs taken 1946. Field check 1949
Polyconic projection. 1927 North American datum
10,000-foot grid based on Oregon coordinate system
north zone
Dashed land lines indicate approximate location

APPROXIMATE MEAN DECLINATION, 1949

(JOHN DAY)