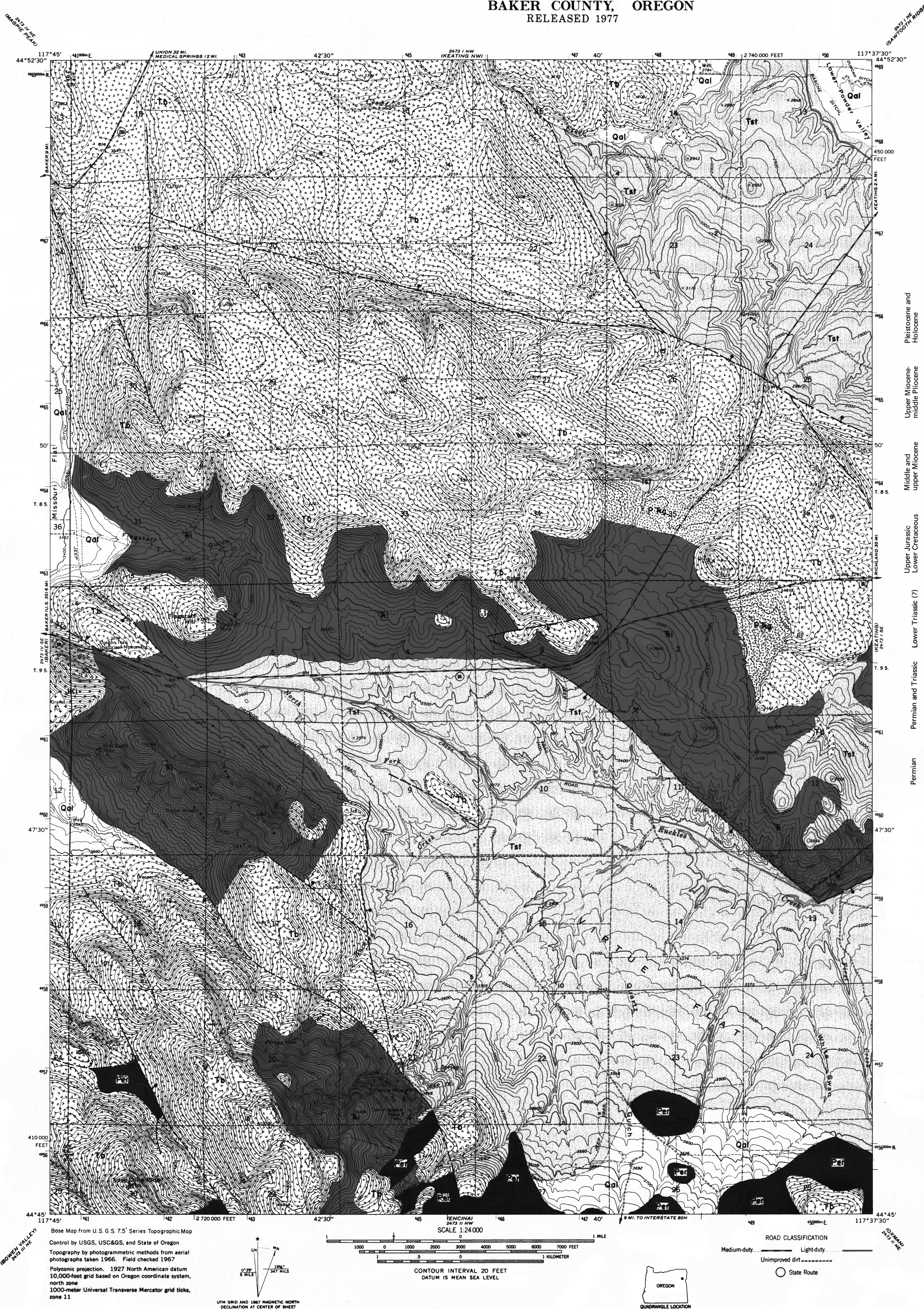


RECONNAISSANCE GEOLOGIC MAP
of the
VIRTUE FLAT QUADRANGLE
BAKER COUNTY, OREGON
RELEASED 1977

O-77-05



EXPLANATION	
Qal	Alluvium Unconsolidated valley fill, alluvial fan debris and thick slope wash. Chiefly silt and sand in Missouri Flat and Lower Powder Valley.
Tst	Tuffaceous Sedimentary Rocks Poorly to semi-consolidated lake and stream deposits. Mostly light-colored tuffaceous siltstone and sandstone. Some fluvial conglomerate. Includes Holocene slope wash locally.
Bb	Basalt Mostly basalt flows. Locally includes thin interbeds of tuffaceous sedimentary rocks and welded ash-flow tuff. Some flows overlie strata included in Tst.
Jk	Quartz Diorite Mostly biotite and hornblende quartz diorite. Typically medium to coarse grained.
Lf	Mafic Intrusive Rocks Mostly gabbro; some hornblende quartz diorite, "white granite," and trondhjemite. Diabase dikes and sills are abundant locally. Most rocks are severely deformed and altered to greenschist facies. Some appear quite fresh.
Pg	"Greenschist" Mixed rocks of both intrusive and extrusive origin. Mainly gabbro and mafic flows, dikes, and tuffs; typically sheared and altered to greenschist facies.
Per	Elkhorn Ridge Argillite Contorted chert, siliceous argillite, and tuff; small limestone pods.

SYMBOLS

- Contact
--- Fault (ball and bar on downthrown side)

STATE OF OREGON
DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
R. E. CORCORAN, STATE GEOLOGIST

Geology by H. C. Brooks and J. R. McIntyre

Cartography by W. H. Pokorny and S. R. Renoud