

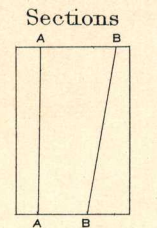
LEGEND

LEGEND

IGNEOUS ROCKS  
(continued)

Metamorphic  
Hawkins formation  
(Diabase, lava, tuff, and breccia)

Faults



Coal, gold, and copper mines  
Pl. Gold placer mines  
Qtz. Gold quartz mines  
X. Coal prospects

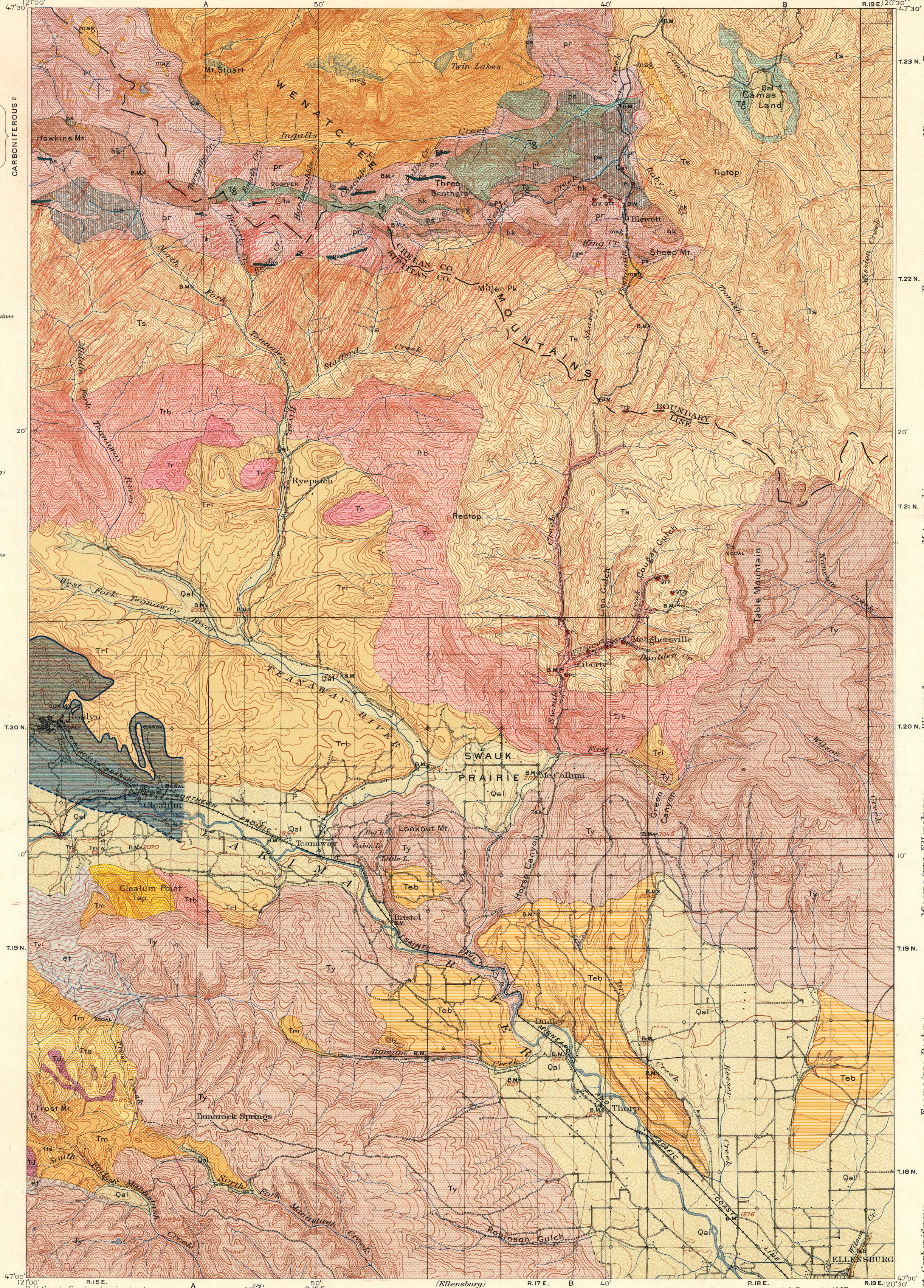
Known productive areas

Gold-bearing gravels

Coal outcrops  
(dashed line indicates heavy alluvium covering)

Area underlain by Roslyn coal

"Nickel ledge"  
(metamorphosed limestone extensively prospected for precious metals)



SEDIMENTARY ROCKS  
(Areas of subaqueous deposits are shown by patterns of parallel lines; subaerial deposits by patterns of dots and circles; metamorphism is indicated by hachures combined with the line patterns.)

QUATERNARY

Recent  
Qal  
(fine silt and sand, with gravel near streams forming terraces)

Miocene  
Teb  
Ellensburg formation  
(basaltic deposits of stratified silt, sand and gravel of local material locally substituted)

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Tm  
Manastash formation  
(sandstone, conglomerate, and shale)

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Trl  
Roslyn formation  
(sandstone and shale with beds of coal)

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Ts  
Swank formation  
(sandstone, conglomerate, and shale)

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cs  
Contact schist  
(sedimentary rock metamorphosed by intrusive granodiorite)

ps  
Peshastin formation  
(black, slate and grit with beds of chert and lenses of limestone locally)

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et  
Easton schist  
(quartz-mica schist with associated hornblende-schist and epidote schist)

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IGNEOUS ROCKS  
(Areas of igneous rocks are shown by patterns of triangles and rhombs; metamorphism is indicated by hachures.)

Tr  
Rhyolite  
(lava and associated tuff)

Ty  
Yakima basalt  
(extensive series of lava flows with local tuff beds)

Td  
Diabase  
(intrusive bodies with associated series of lava flows constituting Yakima basalt contacts)

Tap  
Andesite porphyry  
(intrusive mass related to Tancum andesite)

Tra  
Tancum andesite  
(hypersphene-andesite lava with beds of tuff and breccia)

Tg  
Gabbro  
(intrusive bodies of gabbro, in part olivine bearing and in part quartz bearing)

Trb  
Teaaway basalt  
(lava flows with tuff beds)

Basic dikes  
(diabase usually, quartz bearing, filling Teaaway basalt contacts)

msg  
Mount Stuart granodiorite  
(batholith of massive granodiorite with smaller masses of granodiorite porphyry)

pr  
Acid dikes  
(granodiorite porphyry Mount Stuart batholith)

Peridotite  
(intrusive body, largely altered to serpentine)

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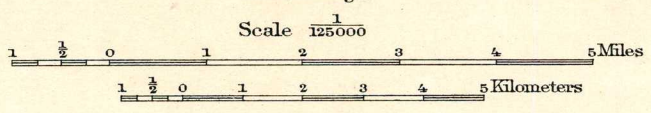
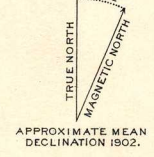
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R. 18 E.  
R. U. Goode, Geographer in charge.  
Triangulation by S.S. Gannett.  
Topography by G.E. Hyde.  
Surveyed in 1896-97.



Scale 1:50,000  
Contour interval 100 feet.  
Datum to mean sea level.  
Edition of Nov. 1903.

DIAGRAM OF TOWNSHIP

6 5 4 3 2 1
7 8 9 10 11 12
13 14 15 16 17 18 19 20
21 22 23 24
25 26 27 28 29 30
31 32 33 34 35

R. 18 E.  
Geology by Israel C. Russell, 1897;  
George Otis Smith and G.C. Curtis, 1898;  
George Otis Smith and W.C. Mendenhall, 1899.

Legend is continued on the left margin.