

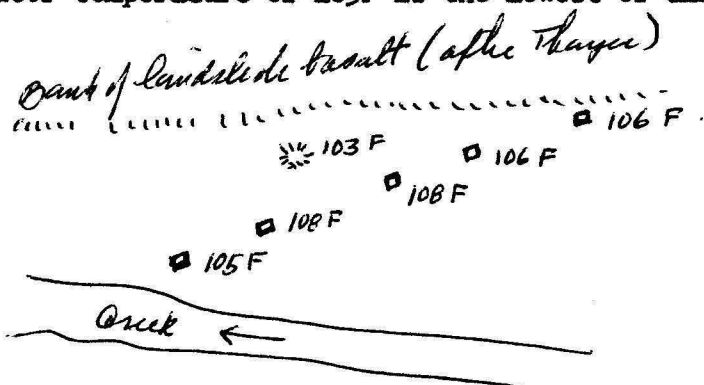
State Department of Geology and Mineral Industries

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Joaquin Miller Hot Springs: John Day Quad., T 15 S, R 31 E, SE $\frac{1}{4}$ section 11.
At creek level on the north side of Canyon Creek about one-quarter mile
upstream from the resort.

The complex consists of six developed springs, five of which are cribbed to an unknown depth, covered with a plank covering and connected to a common pipeline serving the resort. Crib dimensions vary but are rectangular and on the order of 3 by 4 feet, or less, per spring. Water level stands around 12 to 18" below the terrain surface in the instance of these springs, all of which are developed pretty much on a straight line at intervals ranging from 15 to 25 feet, or thereabouts.

Prevailing temperatures in these cribbed springs at mid-morning, August 25th, 1970, beginning with the spring located furthurest downstream and progressing along the line, upstream, were 105, 108, 108, 106 and 106F respectively. * The non-covered spring which is presumably not part of the piped-together complex is situated between covered springs 2 and 3 but 15 or so feet away on the northerly side from the line of development as is indicated schematically on the following diagram. Its water level stands closer to the land surface but its water temperature of 103F is the lowest of all the springs in this cluster.



Creek gravel is the material underfoot around all springs but Tertiary basalt (indicated as Tertiary landslide material on Thayer's map) is the mappable country rock along the bank of the creek on the northerly side within distances of from 10 to 20 feet from the springs. However, Triassic graywacke and shales constitute the indicated bedrock in the vicinity at large and it is from along a fault line therein that the springs doubtless emerge. Other tepid springs are known to issue from fracture zones in the same Triassic sediments at places upstream on main Canyon creek over an indefinite distance of several miles, including likewise a few tepid springs up the east fork of the creek as well.

NORMAN S. WAGNER
August, 27, 1970

* All cited temperatures taken with a Taylor maximum-registering thermometer.