

Fellowship Field Trip # 2
Cullman, Wash.

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Evel Hope
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July 12, 1970 (2 days)

July 1 Drove north to Spokane City limits and turned west on U.S. highway # 2 to Waterville. Lunch at Waterville then further West looking for a Nontronite deposit described by Fautz (Del) in 1962. Site # 1 sampled was west of Waterville, on the old highway just about $\frac{1}{2}$ mile from the top of the basalt which rimmed the highway. Material sampled was thought to be Nontronite but it was very dry. Concluding that a site where water ran through basalt was necessary for nontronite formation we decided to go back to Moses Coulee (east of Waterville) and look.

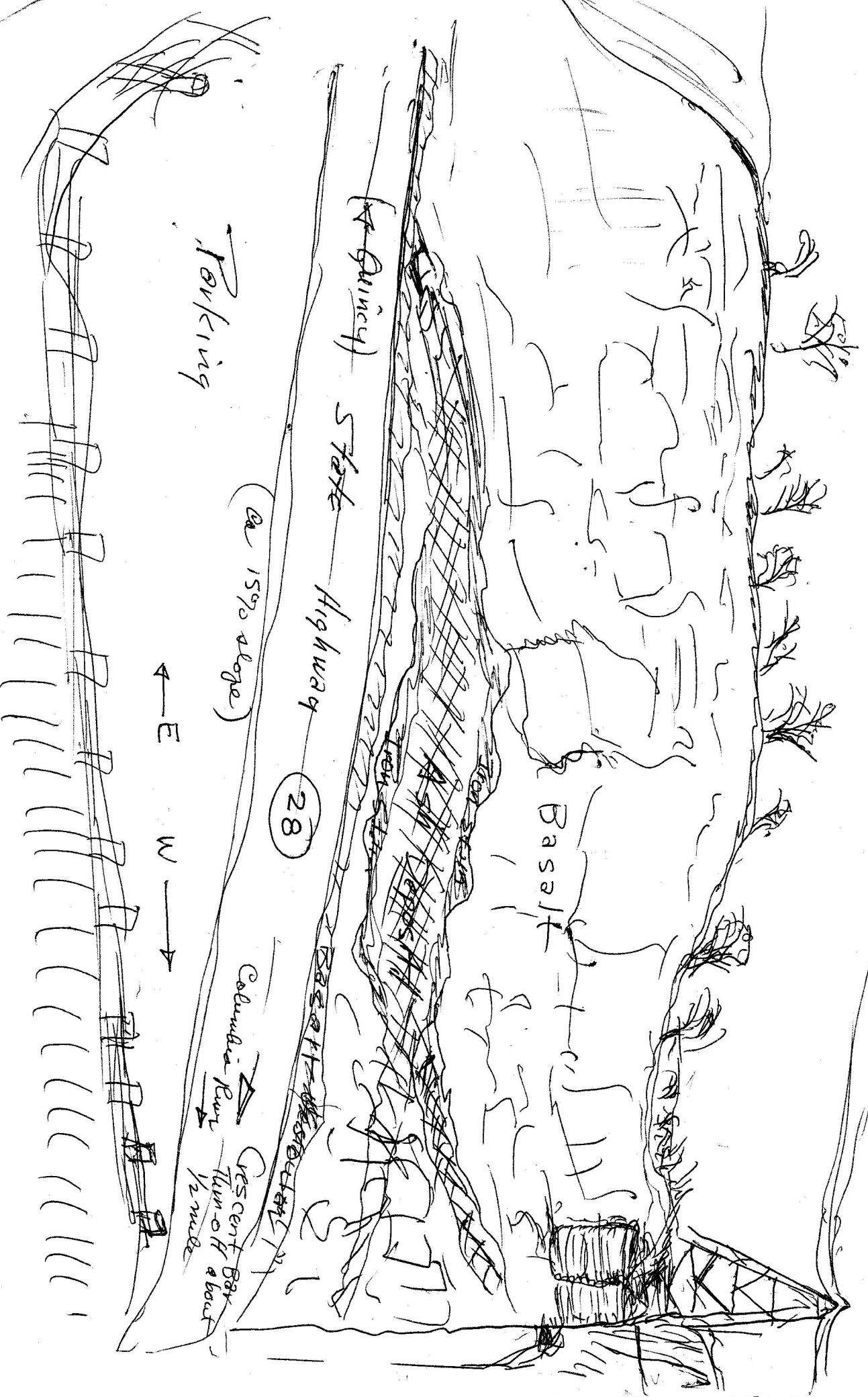
Sample # 2 (1 quart) was taken quite high on the eastern side of the Coulee above the power lines. It was about 125 yards above a gravel pit, also, about 500 yards up the road from the creek. The road turned North from highway # 2 and passed through gravel pit and climbed higher, 2 pictures taken

Again the material sampled was in ash and resembled nontronite but was too dry.

Realizing that we were on the wrong road we went back to Coulee City and took a highway (state) south to ~~Stone Lake~~ Soap Lake from there south on State Highway 28 to Ephrata and Quincy. Several miles west of Quincy the highway slopes down to the Columbia River cutting through basalt. About a half mile before reaching the river elevation (Crescent bar road turnoff) we found the Nontronite lens. About 500 lbs of material was collected, colors ranging from coal black to light green. Pictures were taken of the site and a hasty sketch made.

The return trip was over the same roads by which we arrived. Lodging overnight at Wenatchee.

- ① Nonroute in lower part
- ② ash
- ③ Occurs in lenses & pockets
- ④ stains (iron) above and below
- ④ Lava is moving through ash
- ⑤ Ash strongly cemented in places
- ⑥ Colors: Black, dark green, light (lemon green) brown.
- ⑦ Hardness varies from soft waxy to hard (very hard and green)
- ⑧ Highly fragmented basalt some columnar.
- ⑨ Three types of ash
- ⑩ This whole basalt flow rest on tuff. or vesicular basalt
- ⑪ Black color crumbly clay grades into wet green stuff as you go back into the hill.



Parking

(Quincy)

State Highway

28

(ca 1500 slope)

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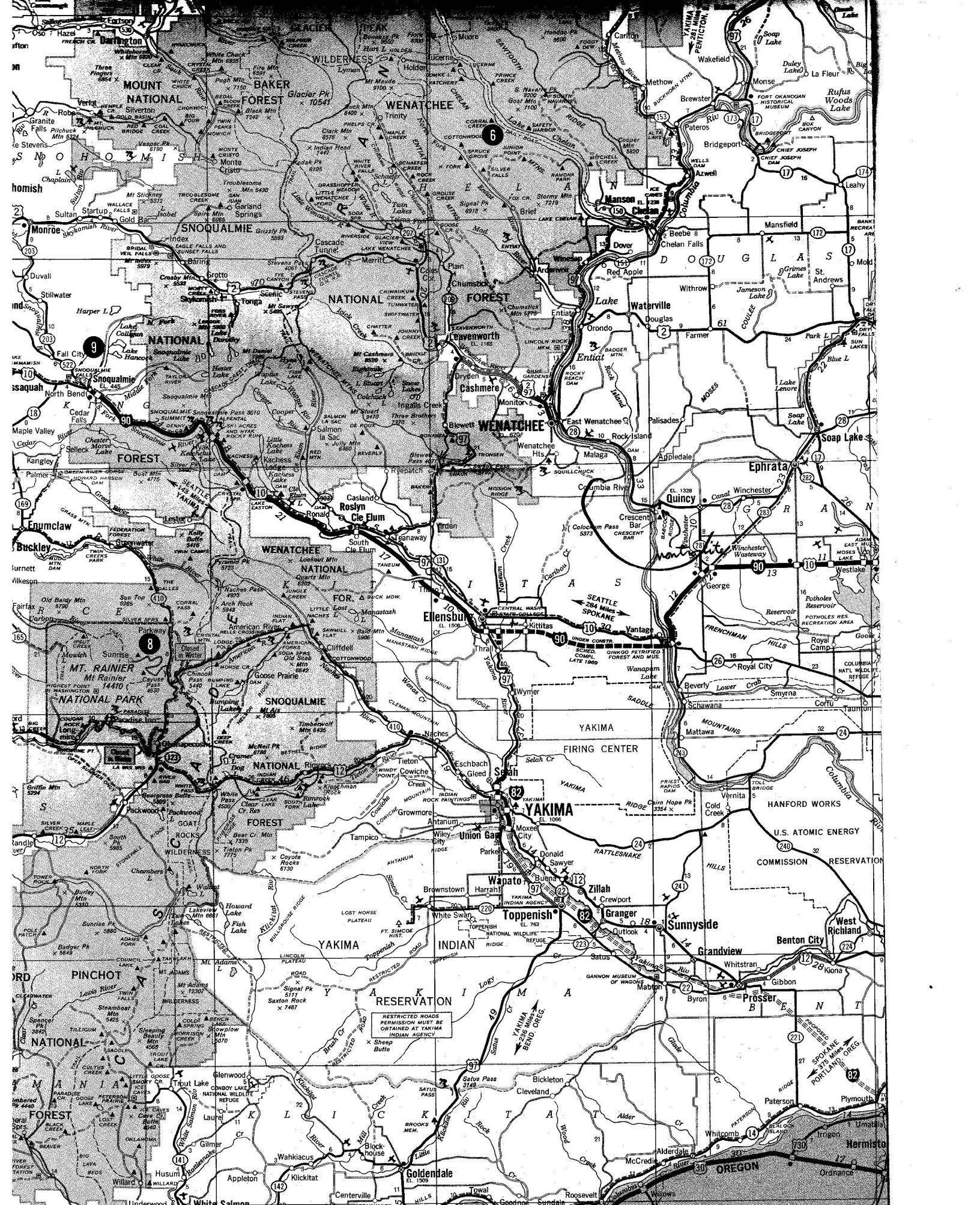
Columbia River

(Rescent Bay Turn-off about 1/2 mile)

Basalt

Basalt

Low Sandstone



SCENIC ROA
Looking for scenic