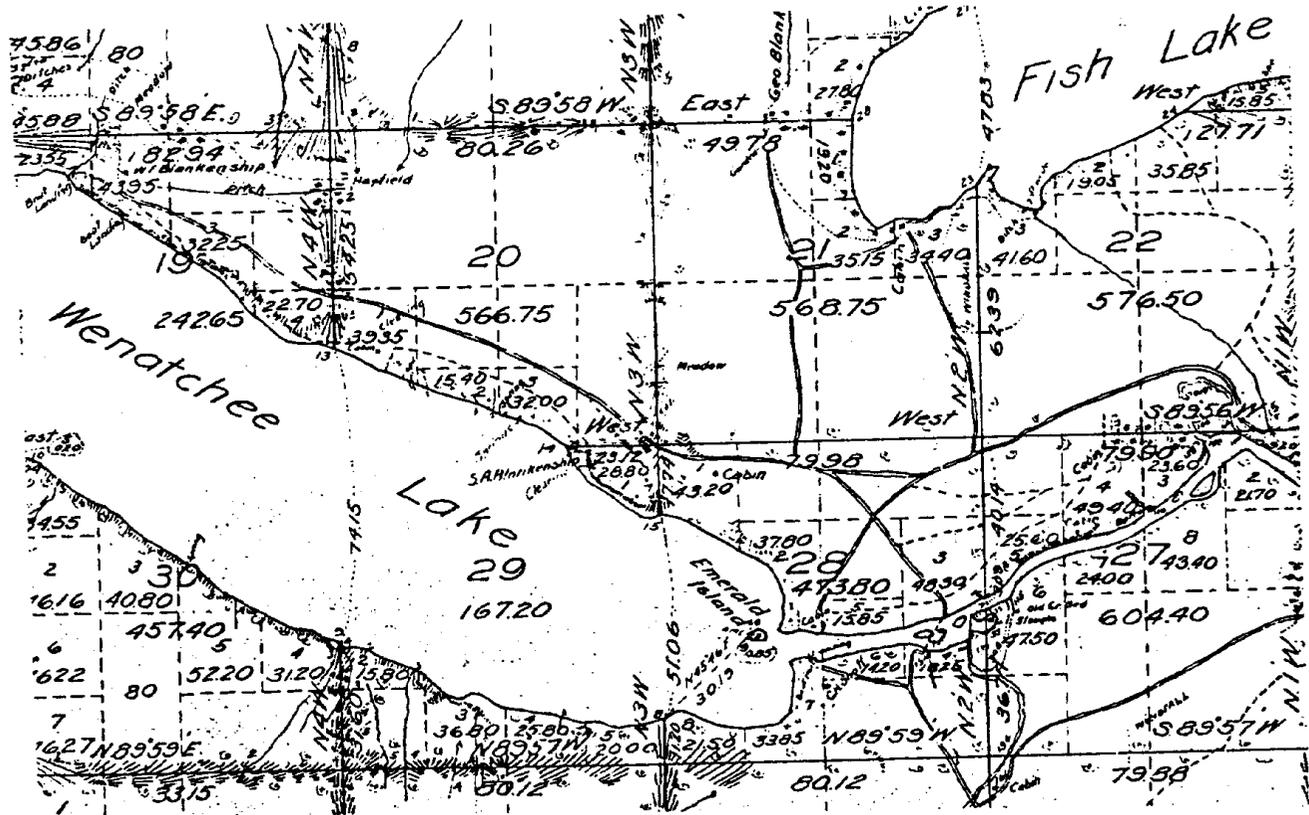


WENATCHEE RIVER, WASHINGTON:
RIVER WIDTHS, VEGETATIVE ENVIRONMENT, AND CONDITIONS
SHAPING ITS CONDITION, MOUTH TO HEADWATERS

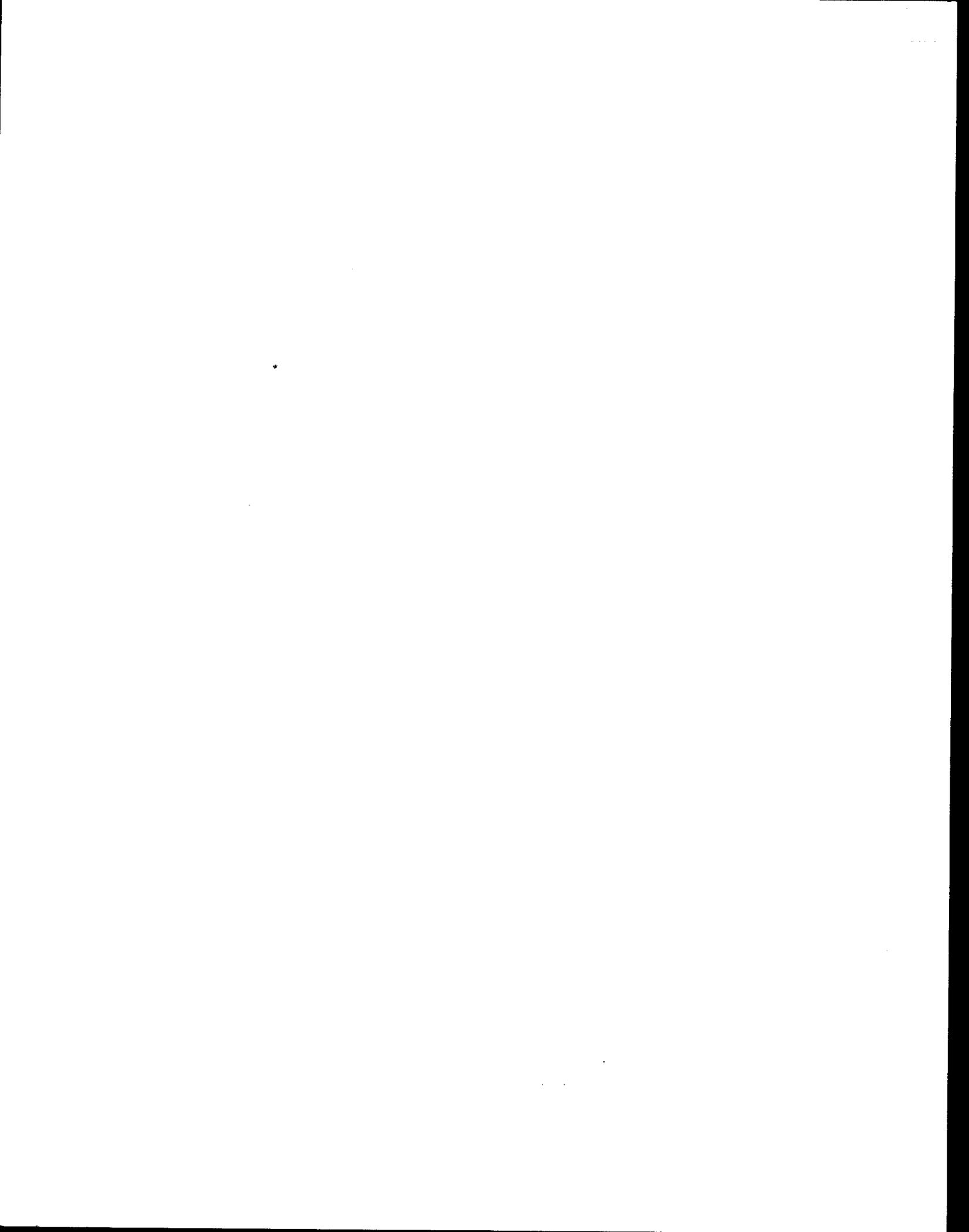


Submitted to

Eastside Ecosystem Management Project
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May, 1995



Preface

The following report was prepared by University scientists through cooperative agreement, project science staff, or contractors as part of the ongoing efforts of the Interior Columbia Basin Ecosystem Management Project, co-managed by the U.S. Forest Service and the Bureau of Land Management. It was prepared for the express purpose of compiling information, reviewing available literature, researching topics related to ecosystems within the Interior Columbia Basin, or exploring relationships among biophysical and economic/social resources.

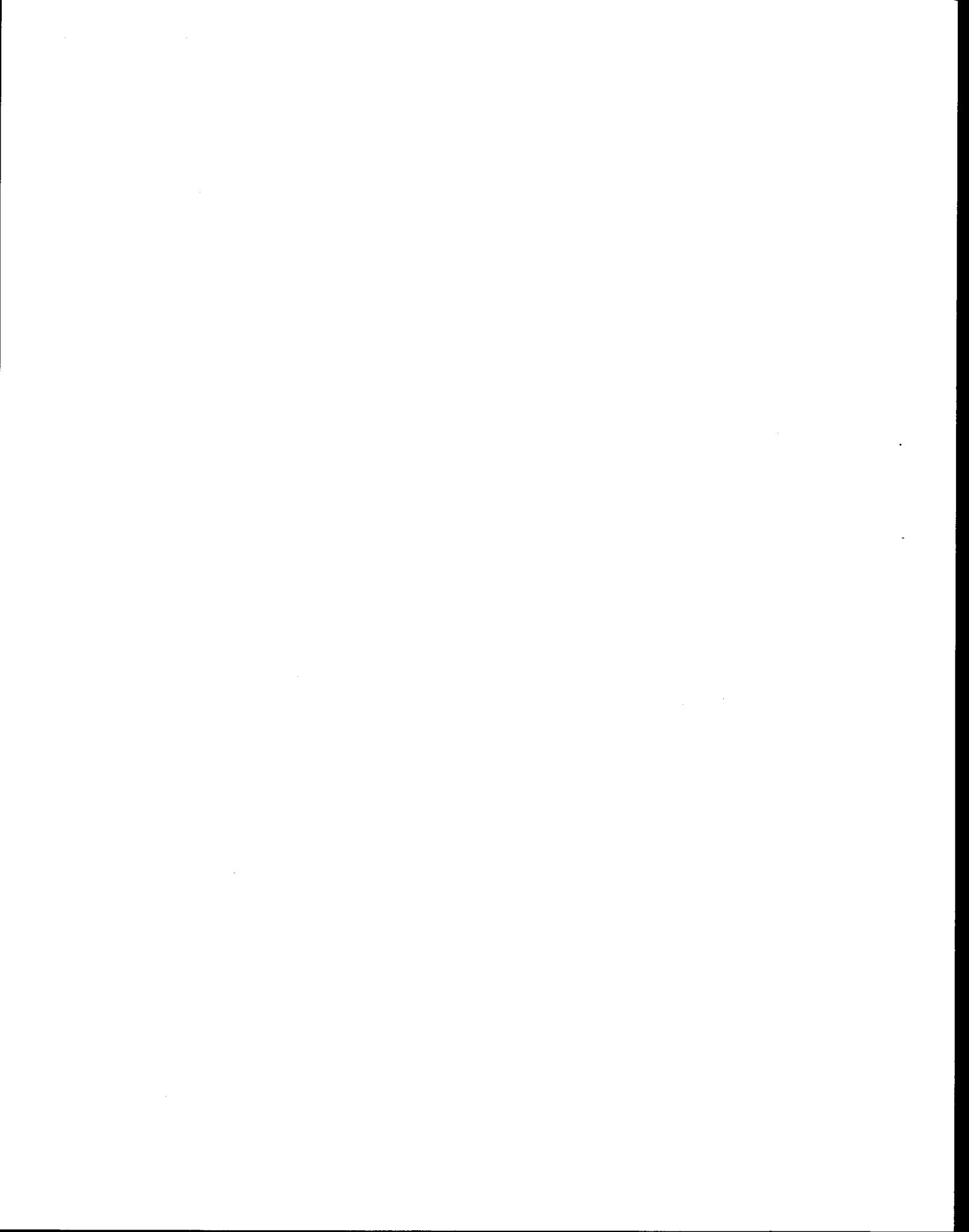
This report has been reviewed by agency scientists as part of the ongoing ecosystem project. The report may be cited within the primary products produced by the project or it may have served its purposes by furthering our understanding of complex resource issues within the Basin. This report may become the basis for scientific journal articles or technical reports by the USDA Forest Service or USDI Bureau of Land Management. The attached report has not been through all the steps appropriate to final publishing as either a scientific journal article or a technical report.

INTRODUCTION

The Wenatchee River flows from Wenatchee Lake southeasterly to its confluence with the Columbia River. In its course the river receives additional flow from several important sources. These include the Chiwawa River, Nason Creek, Chiwaukum Creek, Icicle Creek (or River), and Peshastin Creek. The Wenatchee watershed thus handles waters from the eastern flank of the Cascades in a major drainage lying between the Yakima and the Lake Chelan country.

The following report was developed for the Eastside Ecosystem Management Project and is focused upon the setting of the Wenatchee River in the earlier historic period. The primary concerns were the widths of the river, the vegetative corridor along its banks, and factors which may have had impacts on the quality, amount, or condition of the waters which flow in the main stem of the river. The information for this report has been drawn from manuscript field notes of the cadastral surveyors, narratives of fur trappers, and historic accounts of the Wenatchee region.

The report is a preliminary study. Additional sources could deepen and expand this historical environmental assessment. They include newspaper files, records of irrigation companies, county maps, USGS field notes for topographic surveys which commenced in the region in 1904, photographs, and oral histories. These were beyond the scope of this present study but certainly hold potential to provide more information.



ACKNOWLEDGMENTS

This project was carried out with the assistance of Pat Pickens, BLM Archives, in Portland, OR., who secured photocopies of the plats of survey and microfiche of the survey field notes. The supporting documentary research was mounted at the Watzek and Boley libraries, Lewis and Clark College, Millar Library, Portland State University, and the library of the Oregon Historical Society, Portland, Oregon.

Stefan Nagler Aumack and Ethan Nagler Aumack mounted the tedious but necessary task of reading and transcribing the handwritten field notes of the cadastral surveyors, determining river widths, and creating the graph to illustrate the Wenatchee River. For their patient assistance and good cheer, I am most grateful.

Stephen Dow Beckham
Lake Oswego, Oregon

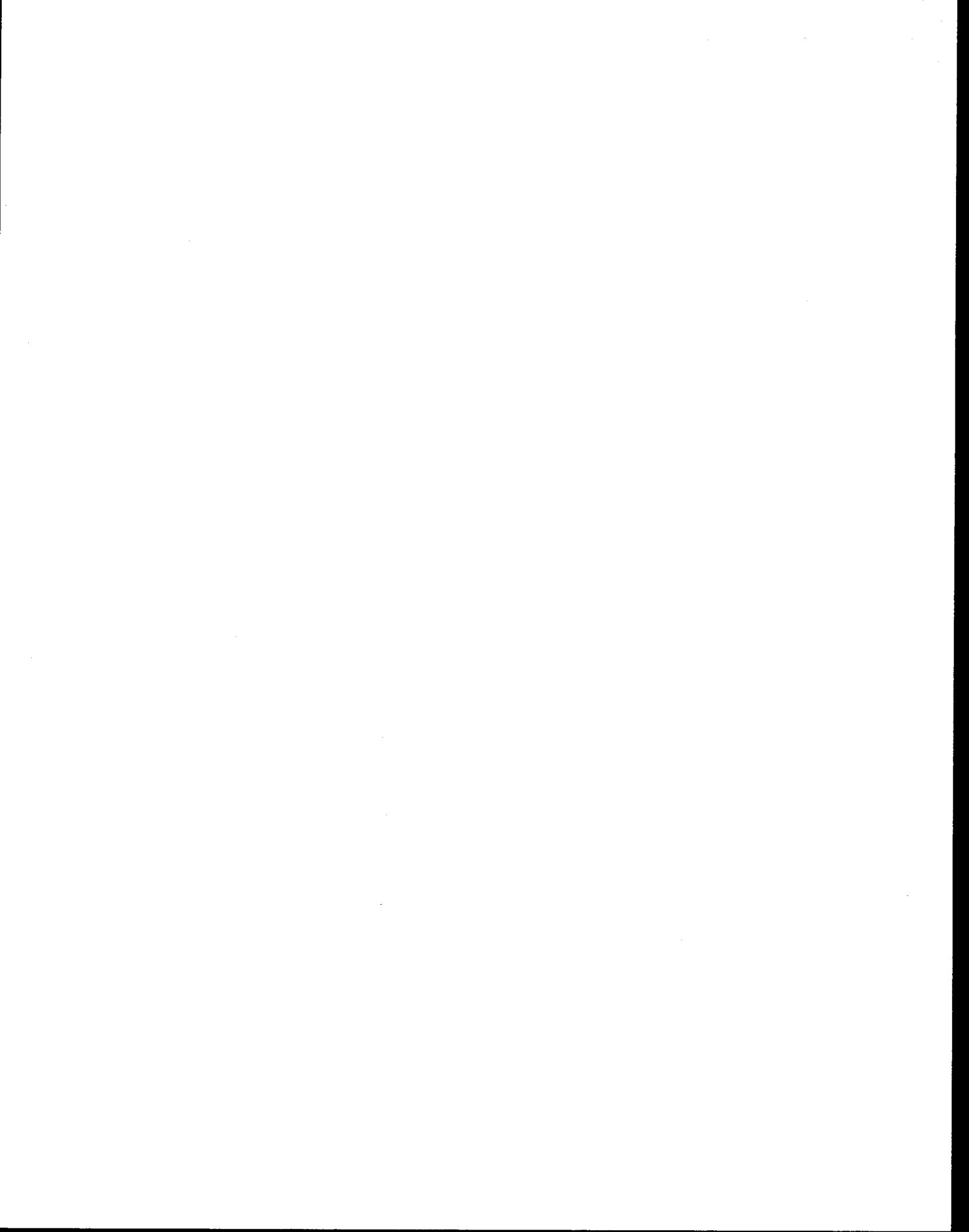
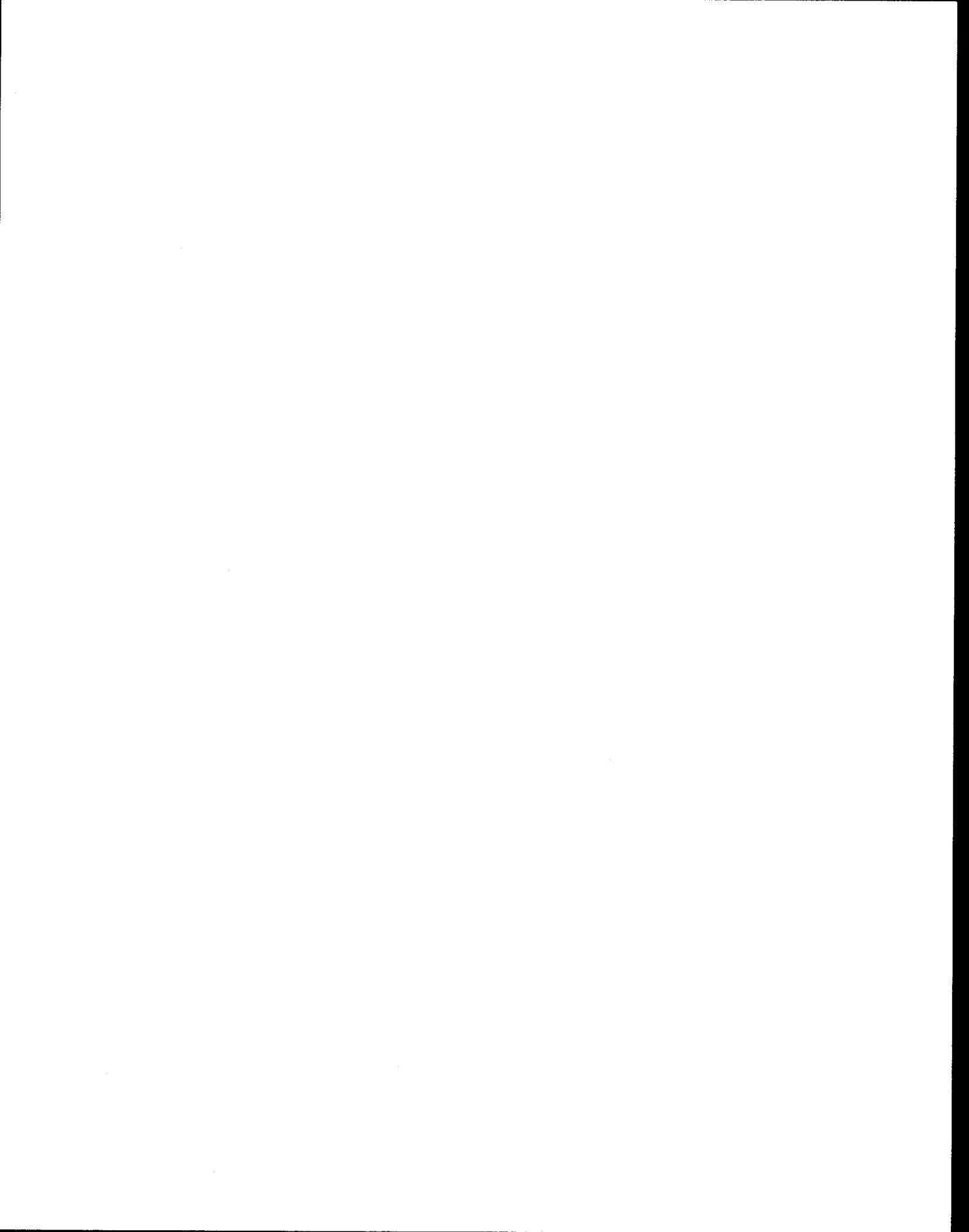


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"The lakes and larger streams in the township teem with trout of different varieties, and salmon come up the Wenatchee river in great numbers in their season."

Charles H. Fenner, T27N, R17E, W.M., 1879
(Fenner 1879b)

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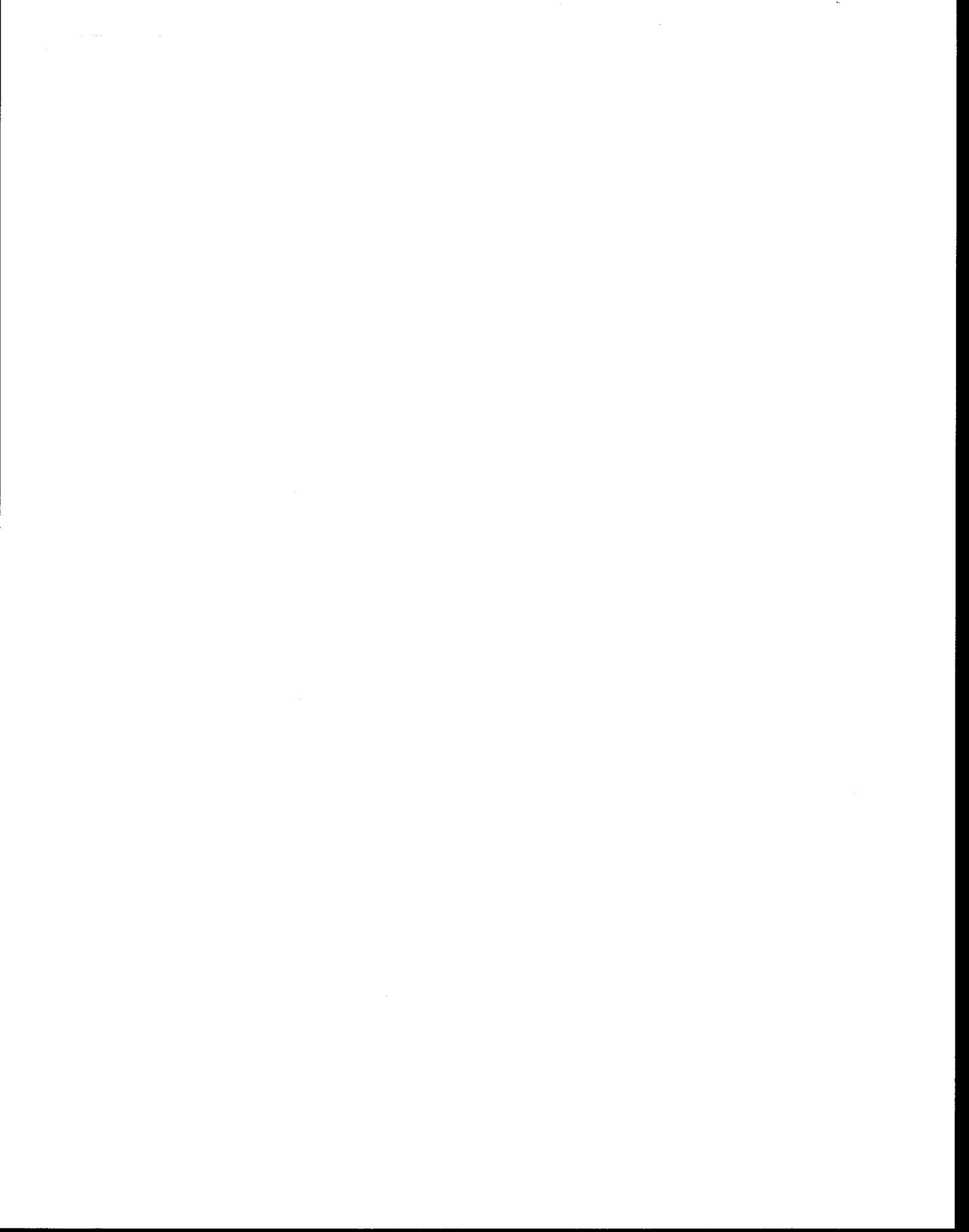
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HISTORICAL OVERVIEW

Exploration and Early Settlement, 1810s-1930

As an important tributary flowing from the eastern flanks of the Cascades into the Columbia River, the Wenatchee River attracted modest attention from fur trappers, explorers, travelers, and settlers. Running south and southwesterly from Wenatchee Lake, the river plunges through Tumwater Canyon along the north side of Icicle Ridge before making its final turns and sweep to the main stem of the Columbia where today the town of Wenatchee, Washington, is situated on the riverine terrace downstream from the river's mouth.

Unlike the Yakima which beckoned alluringly to fur trappers, explorers, and railroad builders with its headwaters pass across the Cascades, the Wenatchee drained more formidable terrain. Its Tumwater Canyon offered serious obstacles to travelers and road builders. In spite of its challenges, the stream course proved irresistible to railroad builders seeking to extend transcontinental lines and link the commerce of the Great Lakes and Northern Plains with Puget Sound. Ultimately the Wenatchee, like the Yakima, became a route of travel and communication.

In the mid-nineteenth century the Wenatchee was variously identified as the Piscoise or the Wenatshapam River (U.S. Topographical Engineers 1861: Map 3). Alexander Ross, a trapper, traveled in 1814 northward from the Yakima Valley. "'You are to proceed,' said I to them, 'due north, cross the mountains, and keep in that direction, till you fall on the Pisscaws [Wenatchee] River, take the first canoe you find, and proceed with all diligence down to the mouth of it, and there await our arrival. But if we are not there on the fourth day, you may proceed to Oakinacken, and tell your story," he recalled. Ross reached the Wenatchee and then observed: "during high water the Pisscaws River is

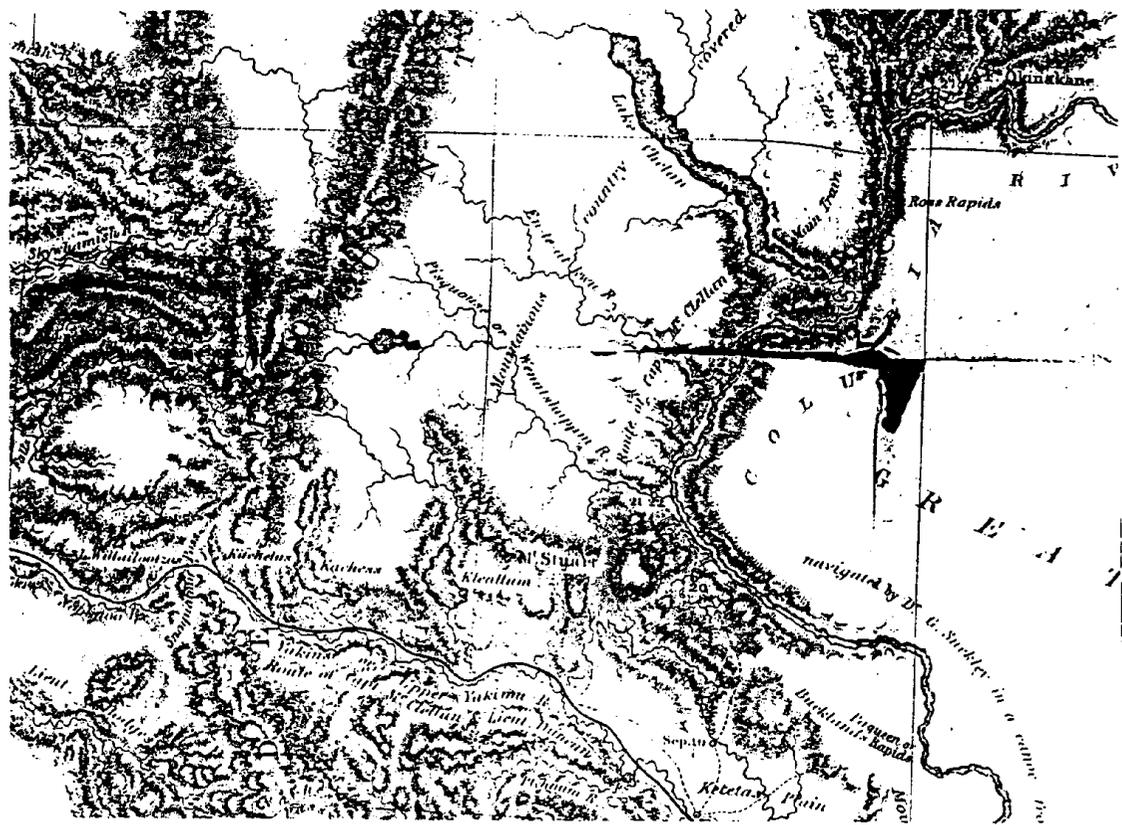


Fig. 1. Piscoise or Wenatshapam [Wenatchee] River as identified during the Pacific Railroad Surveys, 1855-56 (U.S. Topographical Engineers 1861: Map 3).

very broad at its mouth," a situation worthy of note for fur trappers who had to swim their horses and transport their supplies and packs of furs across the stream (Ross 1956:22-25, 30).

The Wenatchee lay within the operations of the Hudson's Bay Company subsequent to its succession in 1821 to the interests of the North West Company. In fact, Archibald McDonald, Clerk at Fort Okanogan in 1827, delimited the Thompson River District as reaching from the interior of British Columbia south to the "mouth of the Pischahowes, 25 leagues below Okanakan Fort." The vast district reached

to the Shuswap region in the north and west toward the Fraser River (Rich 1947:224). No surviving published letter or diary of Hudson's Bay Company employees in the Pacific Northwest, however, confirms fur trapper or trading in the river's watershed. It is likely that such occurred, however, because of the proximity of the watershed to Fort Okanogan.

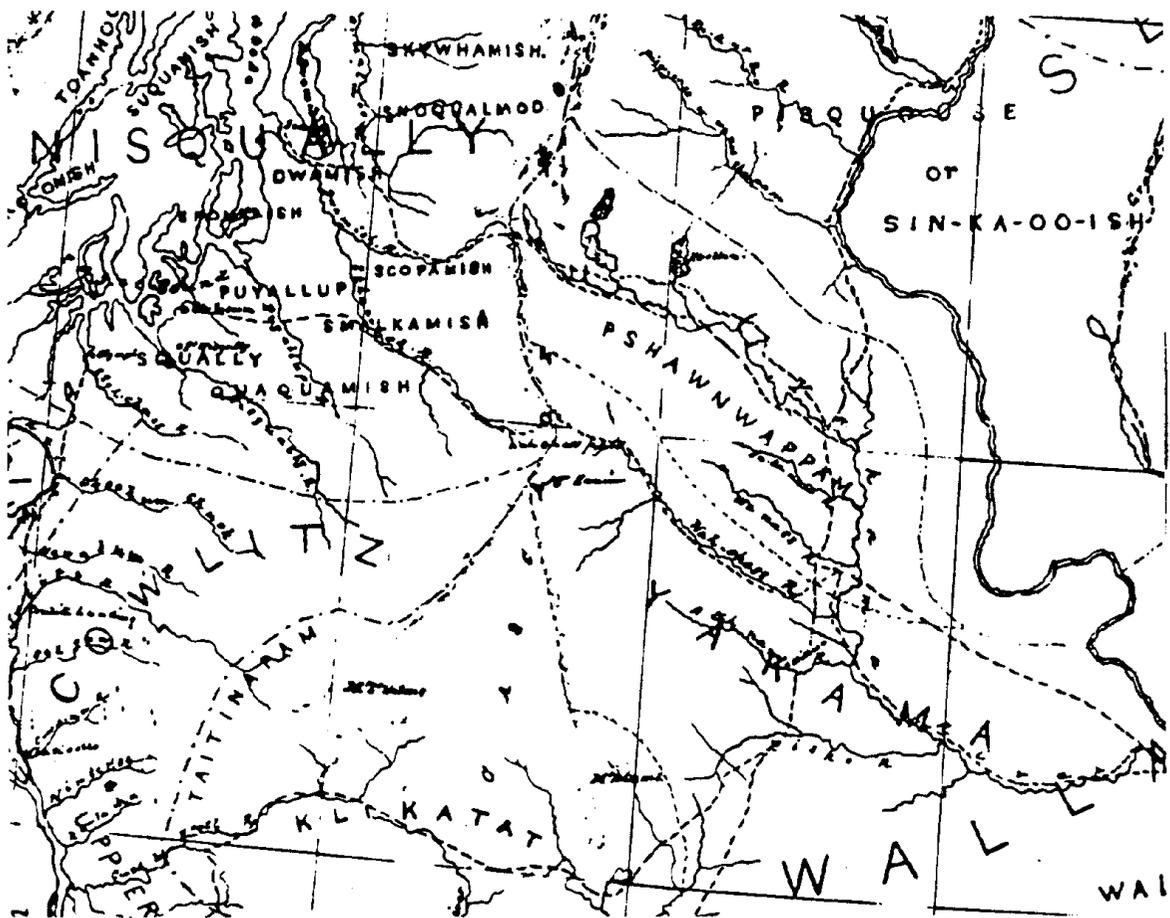


Fig. 2. Indian Distribution in Washington Territory, 1853, identifying the "Pshawnwappam" [Wenatchee] Indians (Gibbs ca:1856).

During the 1840s and the early 1850s, the Wenatchee watershed lay out of the primary area of fur trapping and trading. It was exclusively the domain of the Wenatchee Indians, a Salishan-speaking tribe which

endured significant population losses in the early twentieth century. Richard D. Scheuerman has written about the importance of the fish resources of their homeland:

The Wenatchee Fishery was as much an event as a place to all the tribes of central Washington. As many as 3,000 Indians would gather annually at the forks of the Wenatchee River to fish, socialize, gamble and race horses. From the mouth of the Icicle River, known to the Wenatchi as *Nasikelt* (Narrow Bottom Canyon), the Wenatchee River cascades in a torrent of white water for nearly two miles upstream through a precipitous and wildly beautiful canyon. Appropriately, the river was called by the visiting Yakima in their Sahaptin tongue *Winasta*, which means 'Water Flowing Out.' In later years Whites called both the Indians who were native to the valley and their river by this Sahaptin term, though its spelling varied widely. To the Indians of the valley, however, the river was known by their Salish word for it--the *Pisquouse*, meaning 'Confined' or 'Narrow Land' (Scheuerman 1992:25).

In October, 1858, however, the conclusion of the Yakima War led to wide scale penetration of the interior of the Pacific Northwest by miners, would-be settlers, and town developers. That year miners reported placer gold in the Colville district as well as "in the latitude of the Snoqualimich Pass" on the headwaters feeding into the Wenatchee River (Bancroft 1890:230).

Euro-american settlement commenced in the Wenatchee watershed in 1860. In September, 1884, Charles Holcomb mounted the subdivisions of T23N, R20E, W.M., at the mouth of the river. He wrote of the situation in Section 33 which embraces much of the present townsite of Wenatchee, Washington:

In sec[ti]on 33 there is quite a settlement. Miller and [Freer] being the Pioneer settlers braving living in sec[ti]on 33 since 1860 they have a store with a large stock of goods and about 1000 head of thrifty cattle which graze up the Wenatchee and its tributaries. There is a wagon road from Miller and [Freer]'s store to Ellensburg, Yakima, Co.; and a good trail up the Wenatchee and also up both sides of the Columbia (Holcomb 1884b).

In 1892 Moses M. Emerson subdivided T24N, R18E, W.M., in the vicinity of Peshastin, Washington. He found settlement underway and noted: "The land South of this Township has several Settlers located in the

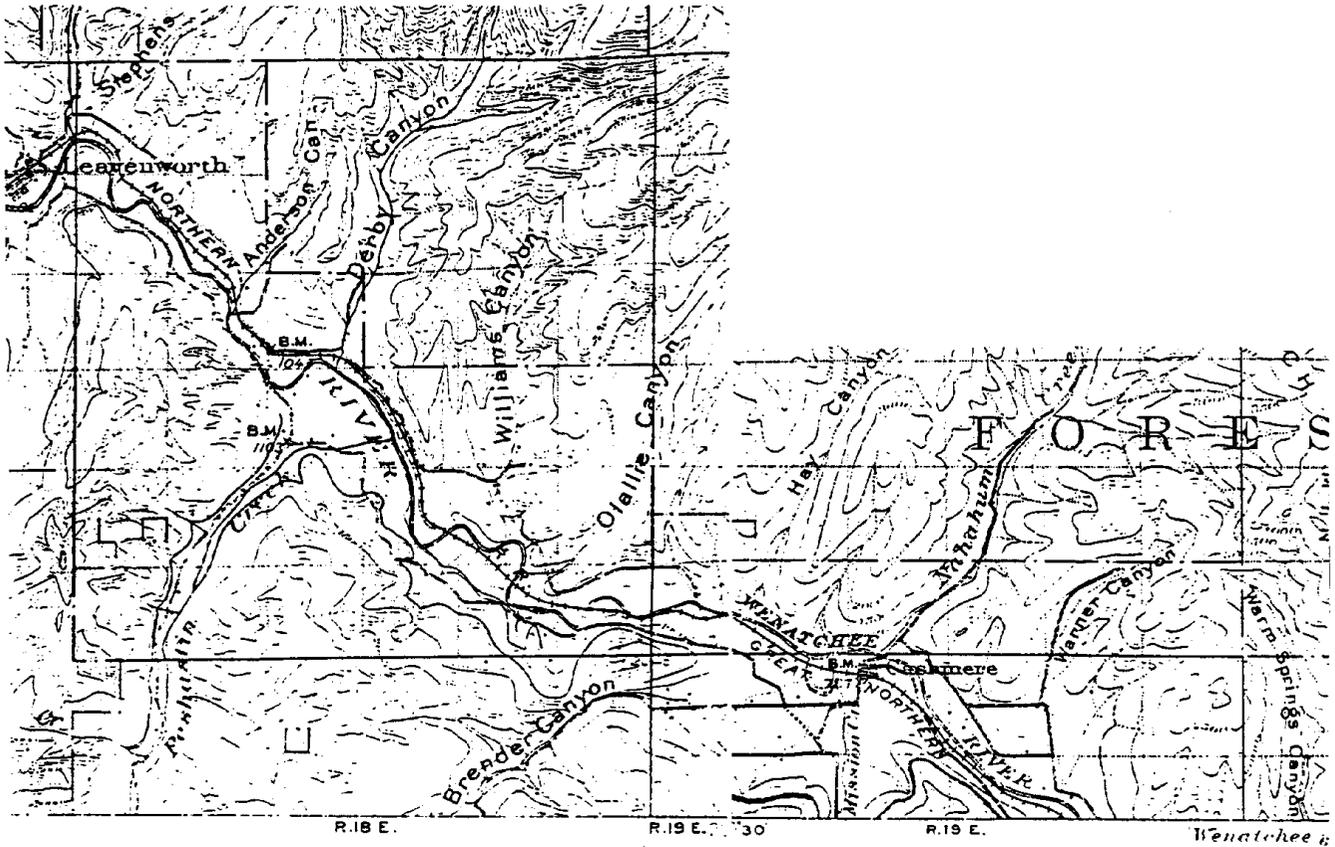


Fig. 3. Route of the Great Northern Railroad from Cashmere to Leavenworth, Washington, via the Wenatchee watershed (U.S. Geological Survey 1904a, 1904b).

Canyons and in Camas Prairie which is an elevated Plateau in the southeastern portion about 1500 feet above the Wenatchee River" (Emerson 1892b). The construction of the Great Northern Railway up the Wenatchee River in the 1890s encouraged settlement along its right-of-way. In 1906 E. A. Fitzhenry and M B. Germond subdivided T25S, R17E, W.M., immediately upstream from Leavenworth, Washington. The surveyors noted:

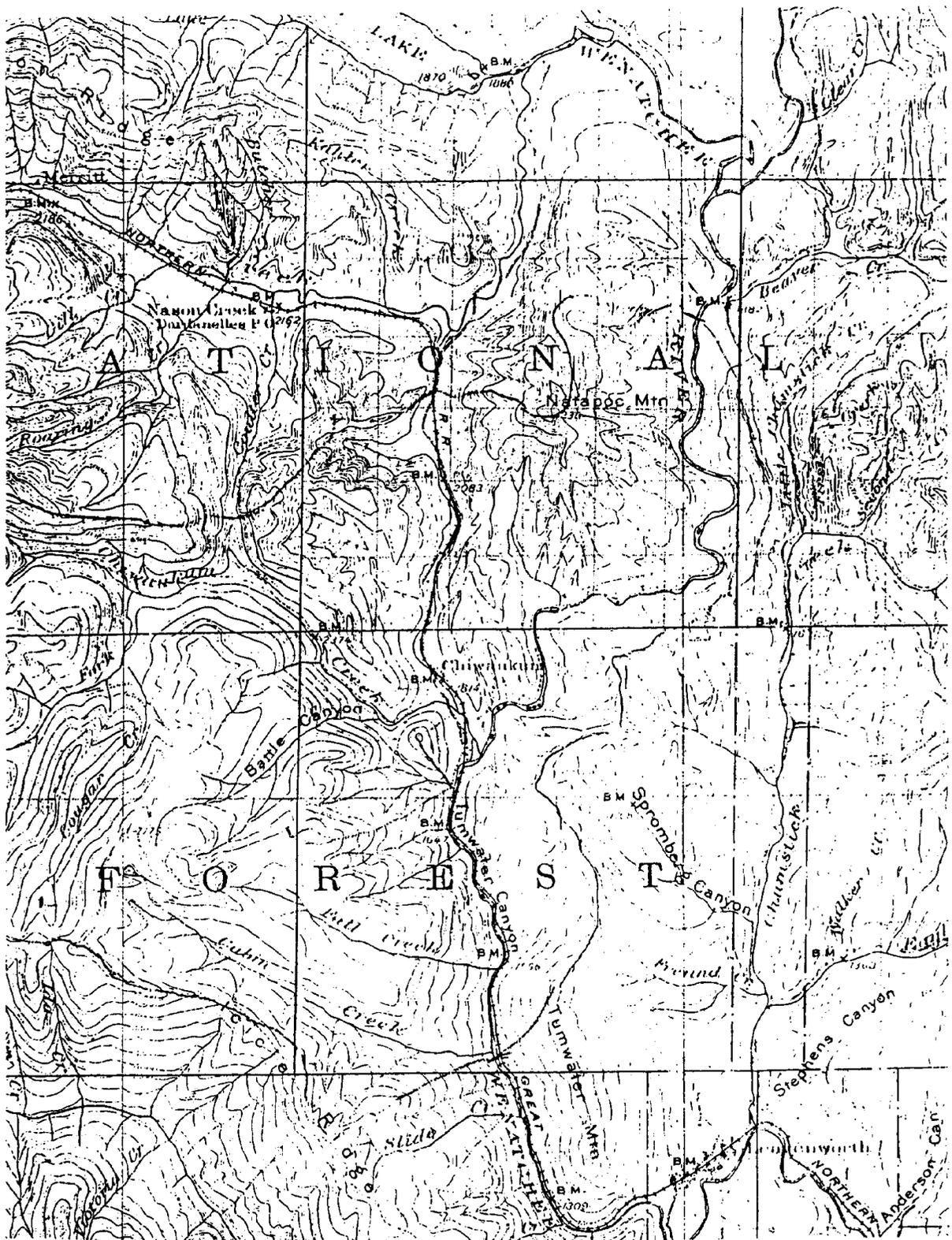


Fig. 4. Route of the Great Northern Railroad from Leavenworth to Merritt, Washington via the Tumwater Canyon (U.S. Geological survey 1904b).

The Great Northern Railroad enters the othe[r] township at the north boundary of sec[tion] five and has a generally southern course and crosses the Wenatchee river near the center of sec[tion] nine, on a How[e] truss bridge, about two hundred feet in length, from which the railroad keeps the left bank of the river across the township.

The railroad company having blasted out the solid granite ledge in constructing the road bed (Fitzhenry and Germond 1906b).

The Great Northern Railroad was not a land-grant route. Its builder, James J. Hill of St. Paul, Minnesota, had to purchase rights-of-way and finance the line by his own means. By 1887 Hill's railroads reached westward from Minot, North Dakota, to the copper mines of Montana. He then decided to press onward to Puget Sound. Hill's workmen constructed a route via the Wenatchee to Stevens Pass and on to Everett. They finished the line in 1893 (Johansen and Gates 1967:313-314).

Settlement spread rapidly but lightly along the Wenatchee River between 1880 and 1890. Monitor, Cashmere, and Peshastin emerged as small communities in the region below Leavenworth as sidings or stops on the Great Northern Railroad. The key to the agricultural success of the lower river lay in the development of irrigation systems. Lindley Hall described the first such effort:

The first definitive action looking to construction of the Peshastin Ditch occurred about the year 1889, when Albert Walker, John Lanham, Lon Cutright, N. R. Cade, O. C. McManus, Ed and Charles Hinman agreed to begin work. These men exerted themselves to the utmost, but in addition to small incomes they had ranches to operate, and some of them had families to support, which at best made construction intermittent, and at the end of three years but little had been accomplished. Lanham and Cutright dropped out, but a few others came into the organization, and in January, 1892, a stock company was formed with a capital stock of \$5000. IN 1895 nearly every one in the district was supporting the project. The railroad had been in operation two years, which demonstrated the value of markets that were being supplied with

garden produce from small irrigated tracts in all parts of the Wenatchee country. Men were now filled with new hope.

As a result the stockholders let contracts or took work in exchange for payments. This drove the project forward in 1895 but the project ultimately required twelve years. "The value added to the Vale of Cashmere by reason of this ditch," concluded Hall, "cannot be given in mere figures though they reach staggering totals (Hall 1929:354-357).

Jacob A. Shotwell settled in 1891 on the north bank of the Wenatchee River a short distance downstream from Monitor, Washington. Persevering over several years, Shotwell dug a ditch to water 160 acres on his ranch and that of a neighbor. The exercise caught the attention of residents of Wenatchee who argued: "If Jake Shotwell unaided and alone can build a big ditch miles in length, the united efforts of all settlers can build a bigger one." Securing financial support Shotwell expanded the Shotwell Ditch and placed a pipeline across the Wenatchee River in 1898. This permitted the development of a large acreage for truck farms (Hall 1929:540-542).

Dryden, a setting of sagebrush and pines lying south of the Wenatchee River, also developed in the 1890s. The Woods brothers in 1892 felled pines, dragged them from Pine Flat to the Wenatchee, and floated them down the river. M. O. Tibbets near the turn of the twentieth century dug a ditch and was the first to draw water directly from the Wenatchee River for irrigation use. In a few years the Dryden area became a well-established apple-growing district, exporting two rail carloads in 1908. The Dryden Fruit Growers formed in 1909 and shipped out 18 carloads. By 1929 the production had reached 700 carloads, a testimony to the service of the Icicle Canal which went into operation in 1913 (Hall 1929:373-374).

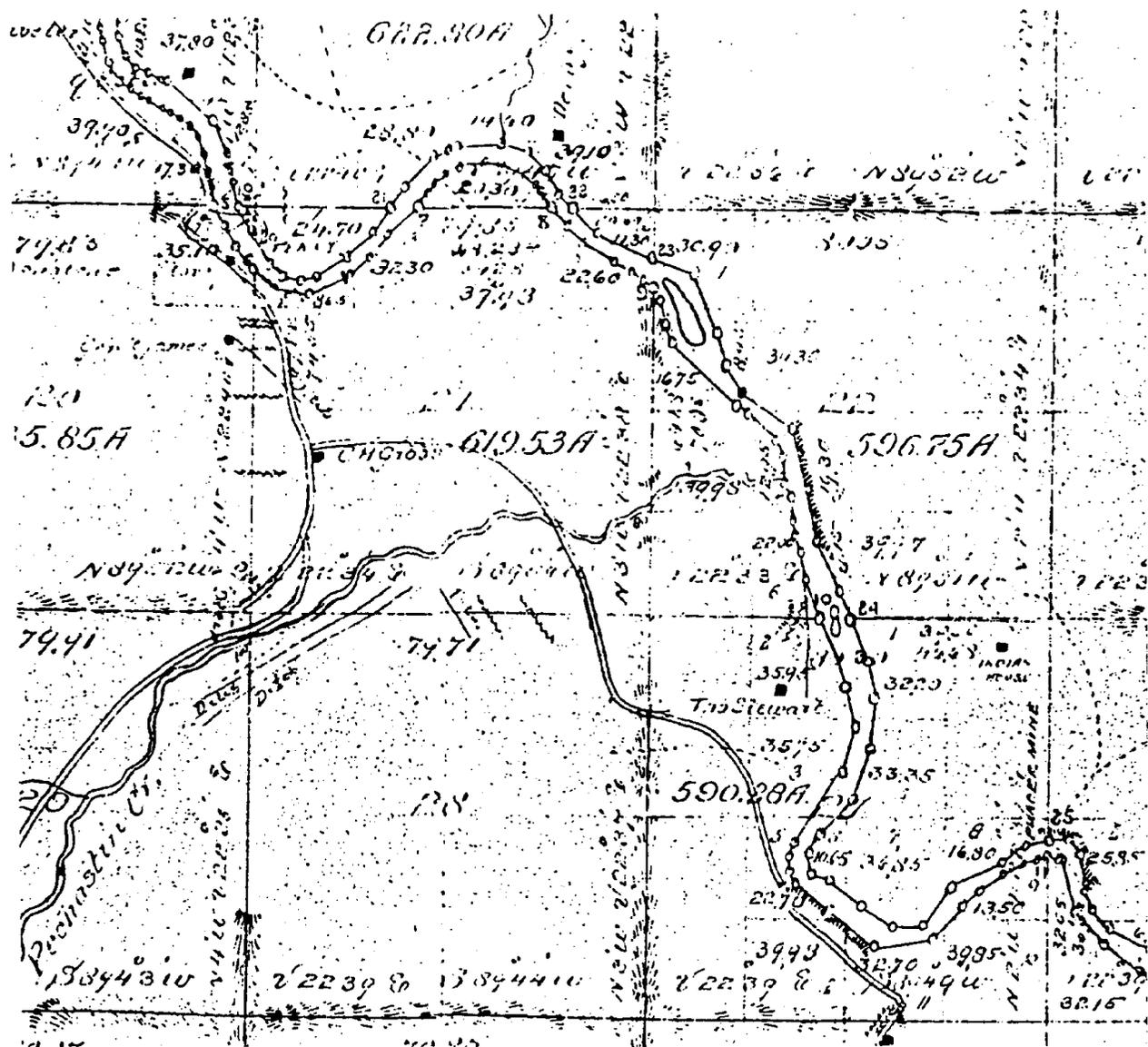


Fig. 5. Ditches and irrigation projects near the confluence of Pechastin Creek and the Wenatchee River (Emerson 1892a).

Leavenworth, Washington, emerged in 1891 when F. A. Losekamp established a store on Icicle Creek. The town grew rapidly with the arrival of construction crews building the Great Northern Railroad. Captain Leavenworth formed a townsite company and platted the community. Selected as a Division Point on the railroad secured the town's future and in 1893 the Great Northern constructed a depot,

roundhouse, machine shop, bunkers, and offices (Hall 1929:383-385). As on Peshastin Creek, irrigation proved important in the area's development. Local residents inspired by Walter M. Olive, a former resident of Cashmere, secured financing and in 1910 formed a corporation to build the Highline Canal. Following a route surveyed in 1904, the canal cost \$130,000 initially but over \$500,000 by 1929. The Highline (or Icicle) Canal provided water for 4,000 acres (Hall 1929:574-575).

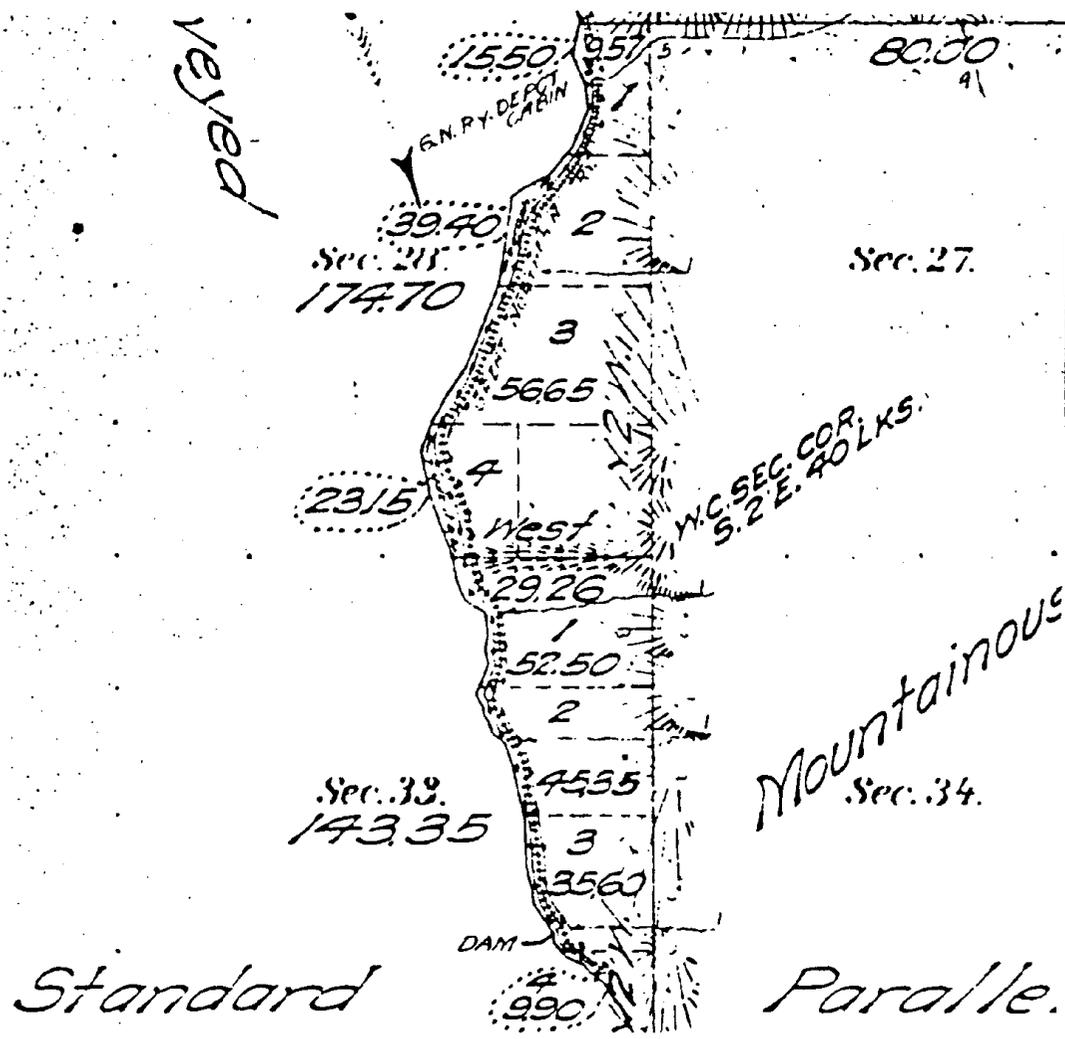


Fig. 6. Dam across Wenatchee River in Section 33, T25N, R17E, W.M., Tumwater Canyon above Leavenworth, WA (Fitzhenry and Germond 1906a).

The Great Northern Lumber Company established its manufacturing plant in Leavenworth. In 1926 the sawmills in Chelan County processed an estimated 80,000,000 board feet of lumber with more than a third used to make fruit boxes (Hall 1929:580). A 1920s photograph, "A scene at Leavenworth," shows a low dam spanning the Wenatchee River with log booms in the reservoir above. Although not holding logs, it is possible that this dam was constructed to serve the sawmill. It probably also was a major point of water diversion for irrigation purposes (Hall 1929:383).

Farther up the Wenatchee settlers took lands in districts known as Winton, Chiwaukum, and Meritt. Those who engaged in agriculture in the Nason and Chiwaukum valleys were doing so without large-scale irrigation projects in the 1920s. The Chewawa River, however, was used for log drives in that decade. The Shugart family developed holdings in Beaver Valley, an area associated with the Wenatchee Park Irrigation Project (Hall 1929:404-405).

Historical accounts speak to the beauty of the Wenatchee River, its cold, crystal-clear water, and to stunning Wenatchee Lake. Writing in 1929, Lindley Hall observed:

Situated at the head of the Wenatchee River and surrounded by pine-clad mountains, richly green in color, Lake Wenatchee is a veritable gem of the Cascades: It is six miles in length and from one to two miles in width. For its water supply, two valleys, the White and the Little Wenatchee, tap the eternal snows and the glacial reservoirs of the faraway mountains, where the silence as of midnight reigns supreme. When white men first penetrated this region and beheld the wealth of forest and game, it was supposed by them to have been an Indian paradise, but according to tradition, this mountain was shunned by the red Men, since it was regarded by them as haunted ground and to have occupied it would have been an offense to the 'Great Spirit' (Hall 1929:397).

As early as 1890 Oliver Bates had settled at Wenatchee Lake were he

constructed and operated a hotel. Bates provided guide service to tourists and sightseers who came to visit the region (Hall 1929:397-398).

Hydropower uses came to the Wenatchee drainage when in 1901 the Wenatchee Electric Light and Power Company constructed a small plant with 50 kilowatt capacity on Squilchuck Creek. The company found the water source insufficient and filed on a location at Leavenworth on the main river. The information is incomplete as to whether this company built hydro facility at Leavenworth. In 1908, however, the Valley Power Company secured the intake of the highline canal at Dryden for generation of electricity. In 1907-08 the Great Northern Railroad built a hydroelectric plant in the Tumwater Canyon above Leavenworth to provide electricity through the Cascade Tunnel (Hall 1929:585-587).

The cadastral surveyors laboring under contract with the General Land Office sketched a vivid picture of the Wenatchee watershed from its mouth to Wenatchee Lake in the years 1894-1908. Their observations are worth noting. At the point where the river had its confluence with the Columbia, Charles Holcomb the Wenatchee as "a beautiful stream of clear cold water running through the SW part of the township and emptying into the Columbia" (Holcomb 1884b). In the vicinity of the confluence of Peshastin Creek with the Wenatchee, Moses Emerson wrote: "The shores along the river and the bed are generally Rocky and Gravelly with dense growth of under brush along the banks" (Emerson 1892b).

In the Tumwater Canyon above Leavenworth, E. A. Fitzhenry and M. B. Germond wrote: "The river ranges in width from three to five chains and is a very rapid stream, with numerous rapids and cascades, particularly from a point near the center of center of sec[tion] nine to the south boundary of the township, the whole of this distance is through a rough and precipitous canyon, the walls of which are more than a

thousand feet in height and are composed of barren granite ledge." The further observed: "the river bottoms are timbered with spruce, cottonwood, pine and maple, with dense undergrowth throughout" (Fitzhenry and Germond 1906b).

In his expansive summary of conditions at the lower end of Wenatchee Lake, Charles H. Fenner found the lake "clear and pure." He further wrote: "The lakes and larger streams in the township teem with trout of different varieties, and salmon come up the Wenatchee river in great numbers in their season (Fenner 1897b).

The historical records thus confirm that the Wenatchee River had a highly important fishery, extensively used by Native Americans, and was a stream of remarkably clear, cold water. Its banks were fringed for miles by dense underbrush as well as by a canopy of hardwoods. Its upper sections flowed through canyons amid stands of mixed hardwoods and softwoods. Since the 1890s the river has been subjected to water withdrawals for irrigation, has been used for hydroelectrical generation, has been followed for miles by the Great Northern Railroad, has been used for log drives, and has been spanned by low dams.

CADASTRAL SURVEY NOTES, 1884-1906

Wenatchee to Cashmere

TOWNSHIP 23N, RANGE 20E, W.M.

North Between Sections 27 & 28

Variation 22°30' E

- Through Meadow
- 12.80 **Right bank of Columbia river at mouth of Wenatchee river**
Set a post 4 feet long, 4 inches square, with marked stone 12 inches in the ground for meander corner to fractional section 27 marked
- 27.63 At this point I set a Cottonwood post 4 feet long, 4 inches square with marked stone 12 inches in the ground for meander corner to fractional section 27 marked
Enter thick undergrowth
- 40.00 Set a post 3 feet long, 3 inches square with marked stone 12 inches in the ground for 1/4 section corner marked
- 63.14 [nl]
- 80.00 Set Cottonwood post 4 feet long, 4 inches square with marked stone, 12 inches, in the ground for corner to sections 21,22,27 & 28 marked

Land level
Soil 1st rate
Timber none
80.00 chains level, 40.00 chains thick undergrowth

North Between Sections 28 & 29

Variation 22°30'E

- A long descent through thick undergrowth
- 11.00 Ascend steep bank
- 14.80 Enter level bench
- 38.40 Descend steep bank
- 40.00 Set a post 3 feet long, 3 inches square with marked stone 12 inches in the ground for 1/4 section corner marked
- 49.11 Trail bears NW & SE
- 53.50 Dry Wash 10 feet deep 15 links wide course E
- 68.93 **Cross Wenatchee river 2.36 chains wide course SE and ascend**
- 80.00 Set a post 4 feet long, 4 inches square with marked stone 12

in[che]s in the ground for cor[ner] to sec[ti]on[s] 20,21,28 and 29
marked

Land rolling
Soil 1st and 2nd rate
Timber none
Undergrowth of sage-brush
63.60 ch[ain]s mountainous, 16.40 ch[ain]s level
80 ch[ain]s thick undergrowth

East on a random line between Sec[ti]on[s] 20 & 29

Va[riation] 22°39'E

- 27.84 **Set temporary 1/4 witness cor[ner] on right bank of Wenatchee river from which post I offset N 6.00 chains; crossing the river & running E on offset line**
- 80.19 Intersect N & S line 6.23 l[in]ks N of cor[ner] to sec[ti]on[s] 20,21,28 & 29. Thence I run N89°50' W on a true line
Va[riation] 22°39'E
Along bottom land
- 52.35 **At point N of temporary 1/4 sec[ti]on] W cor[ner] thence S 6.00 ch[ain]s across Wenatchee river course E [n] 2.35 ch[ain]s water to cottonwood post, 3 f[ee]t long, 3 in[che]s square with marked stone 12 in[che]s in the ground, for witness cor[ner] to 1/4 sec[ti]on] cor[ner] marked**
- 71.55 Leave bottom land. bears N80°W S80° E
- 75.83 Trail bears NW & SE and ascend along N slope of spur
- 80.19 The cor[ner] to sec[ti]on[s] 19,20,19 & 30

Land mountainous & level
Soil 2d to 3rd rate
Timber Cottonwood
Undergrowth of sage brush
71.55 ch[ain]s level, 8.64 ch[ain]s mountainous

North between Sec[ti]on[s] 19 & 20

Va[riation] 22°39'E

- 2.03 Descend abruptly through thick undergrowth
Trail bears SE & NW
- 2.13 Enter Wenatchee bottom land bears NW & SE
- 8.06 **Cross Wenatchee river 1.15 ch[ain]s water.**
Course E and enter flat

23.79 Trail bears E & W
 40.00 Set a Cottonwood post 3 feet long, 3 inches square, with
 marked stone 12 inches in the ground for 1/4 section corner
 marked
 47.80 Leave flat & ascend
 62.30 Top of Spur, bears SW & NE and descend
 80.00 Set a sand stone 15x10x8 inches, 10 inches in the ground for
 corner to sections 17,18,19 & 20 marked

Land mountainous & level
 Soil 3rd rate
 Timber none
 Undergrowth of sage brush
 34.33 chains mountainous, 45.67 chains level
 80.00 chains thick undergrowth

General Description

The quality of the land in this township is very fair. Chiefly situated on both sides of the Columbia and Wenatchee rivers. The Columbia is navigable through the township for steam boats of light draft it averages from 20.00 to 40.00 chains wide. **The Wenatchee River a beautiful stream of clear cold water running through the SW part of the township and emptying into the Columbia in the eastern part of section 28.** Timber is chiefly Cottonwood and Pine, and is very scattering, excepting a few places along the Wenatchee river, where there is quite a heavy growth.

In section 33 there is quite a settlement. Miller and [. .] being the Pioneer settlers braving living in section 33 since 1860 they have a store with a large stock of goods and about 1000 head of thrifty cattle which graze up the Wenatchee and its tributaries. There is a wagon road from Miller and [. .]'s store to Ellensburg, Yakima, Co; and a good trail up the Wenatchee and also up both sides of the Columbia. A thick undergrowth of sage brush splendid bunch grass and good grazing land. Back from the river it is broken and mountainous.

(Holcomb 1884b)

TOWNSHIP 23N, RANGE 19E, W.M.

East on a random line between sections 13 and 24

Variation] 21 °30'E

- 40.00 Set temporary 1/4 section corner.
80.79 Intersect East Body of Township 60 links S of corner to sections 13, 18, 19 and 24. Thence I run S89 °34'W on a true line, between sections 13 and 24
Variation] 21 °30'E.
Along flat through timber.
- 27.14 **Left bank of Wenatchee river**, course S60 °E, from which point: I off set 5.00 chains N26 °W
Thence S89 °34'W 35, 25 chains. Thence S26 °E
5.00 chains to the line.
The 1/4 section corner would land in the Wenatchee river.
Therefore at
- 62.39 **Right bank of Wenatchee**, I
Set a post
From the corner river runs S34 °86'E
- 64.00 Trail bears NW and SE.
80.79 Corner to sections 13, 14, 23 and 24.
Land level.
Soil 1st rate.
Timber cottonwood and alder.
Undergrowth of sage brush.
80.79 chains level. 80.79 chains dense timber.

North between sections 13 and 14.

Variation] 21 °30'E

- Run along flat, dense timber.
- 9.20 Descend abruptly and cross trail bear E and W.
10.40 Enter flat, bears E and W.
18.30 **Wenatchee river, 1.80 chains, water, course SE and run along flat.**
- 40.00 Set a post
43.10 Trail bears E and W.
46.00 Leave flat and ascend abruptly.
80.00 Set a sand stone
Land mountainous and level.
Soil 1st and 2nd rate.
Timber, cottonwood and alder.
Undergrowth of sage brush.

44.80 ch[ain]s. Level. 35.20 ch[ain]s mountainous.
80.00 ch[ain]s, dense timber and thick undergrowth.

East on a random line between sec[ti]on[s] 11 and 14

Va[riation] 21°30'E

40.00 Set temporary 1/4 sec[ti]on] cor[ner].
80.29 Intersect N and S line, 41 l[in]ks S of cor[ner] to sec[ti]on[s] 11, 12,
13 and 14. Thence I run
S89°40'W on a true line, between sec[ti]on[s] 11 and 14.
Va[riation] 21°30'E
15.00 Top of spur, bears N and S and descend.
40.14 Set sand stone
40.35 Trail bears N and S.
41.74 **Cross Wenatchee river, 2.30 ch[ain]s water, course S10°E
and run along flat.**
71.63 Trail bears NW and SE.
80.29 The cor[ner] to sec[ti]on[s] 10, 11, 14 and 15.
Land mountainous and level.
Soil 1st rate.
Timber cottonwood and alder.
Undergrowth of sage brush.
80.29 ch[ain]s, thick undergrowth.
41.74 ch[ain]s, mountainous. 38.55 ch[ain]s level.

North between sec[ti]on[s] 10 and 11

Va[riation] 21°30'E

Along flat through thick undergrowth
13.00 Ascend.
15.06 Trail bears NW and SE.
31.00 Top of spur; bears NE and SW and descend.
40.00 Set cherry post
52.13 **Cross Wenatchee river, 3.12 ch[ain]s water, course E and ascend
steep bank.**
56.00 Enter bench bears E and W.
61.10 Trail bears NE and SW.
64.73 Gulch with alkali water, 3 l[in]ks wide course S20°W.
80.00 Set a cherry post
Land mountainous and level.
Soil 1st rate.
Timber cottonwood, cherry and alder.
Undergrowth of sage brush.
37.00 ch[ain]s level. 43.00 mountainous.

80.00 ch[ain]s, thick undergrowth.

East on a random line between sec[ti]on[s] 3 and 10.

Va[riation] 22°00'E

40.00 Set temporary 1/4 sec[ti]on] cor[ner].
79.80 Intersect N and S line 19 l[in]ks N of cor[ner] to sec[ti]on[s] 2, 3, 10
and 11. Thence I run
N89°52'W on a true line, between sec[ti]on[s] 3 and 10.
Va[riation] 22°0'E
Along bench, through thick undergrowth.
37.03 Trail bears NW and SE.
39.90 Set cherry post
44.00 Descend.
55.80 **Cross Wenatchee river, 2 ch[ain]s water, course SE and ascend.**
66.15 Trail bears NE and SW.
79.80 The cor[ner] to sec[ti]on[s] 3, 4, 9 and 10.
Land rolling and level.
Soil 3rd rate.
Timber none.
Undergrowth of sage brush.
44.00 ch[ain]s level. 35.80 ch[ain]s rolling.
79.80 [chains], thick undergrowth.

North on a random line between sec[ti]on[s] 3 and 4.

Va[riation] 22°00'E

40.00 Set temporary 1/4 sec[ti]on] cor[ner].
80.26 Intersect N b[od]y of T[ownshi]p 40 l[in]ks E of [cor]ner to
sec[ti]on[s] 3, 4, 33 and 34. Thence I run
S17°E on a true line, between sec[ti]on[s] 3 and 4.
Va[riation] 22°00'E
16.00 Enter flat, bears NW and SE.
40.26 Set a post
40.34 Trail bears NW and SE.
45.89 Fence bears NE and SW and descend.
50.30 **Cross Wenatchee river, 4.09 ch[ain]s water, course SE and
ascend.**
67.19 Trail bears NW and SE.
80.26 The cor[ner] to sec[ti]on[s] 3, 4, 9 and 10.
Land rolling and level.
Soil 2nd rate.
Timber none.
Undergrowth of sage brush.

20.41 ch[ain]s rolling. 59.85 ch[ain]s level.
80.26 ch[ain]s thick undergrowth.

West between sec[ti]on]s 4 and 33

Va[riation] 22°30'E

18.00 Descend, through thick undergrowth
Enter flat bears NW and SE.
31.88 Path bears N60°W and S60°E.
32.81 Cross creek, 6 ch[ain]s water, course S and ascend
40.00 Set a post
51.10 **Cross Wenatchee river 2.36 ch[ain]s wide, course SE.**
63.80 **Cross Wenatchee river 3.00 ch[ain]s wide, course NE.**
80.00 Set a post
An aspen 12 in[che]s diam[eter] bears S27°W 40 l[in]ks
dist[ant]
An aspen 5 in[che]s diam[eter] bears N36°W 137 l[in]ks
dist[ant]
An aspen 10 in[che]s diam[eter] bears N13°E 76 l[in]ks
dist[ant]
An aspen 10 in[che]s diam[eter] bears S83°E 129 l[in]ks
dist[ant]
Land rolling and level.
Soil 1st and 2nd rate.
Timber of scattering pine.
Undergrowth of sage brush.
80.00 ch[ain]s thick undergrowth.

North on a random line between sec[ti]on]s 4 and 5

Va[riation] 22°30'E

40.00 Set temporary 1/4 sec[ti]on] cor[ner].
80.41 Intersect N b[od]y of T[ownshi]p, 64 l[in]ks E of cor[ner] to
sec[ti]on]s 4, 5, 32 and 33. Thence I run
S27°E on a true line between sec[ti]on]s 4 and 5
Va[riation] 22°30'E
Along flat through thick undergrowth.
22.41 **Cross Wenatchee river, 2.17 ch[ain]s water, course N50°E**
and continue along flat.
29.70 Trail bears E and W.
38.91 Wagon road bears E and W.
40.41 Set a post
55.00 Ascend abruptly.

60.80 Level bench bears E and W.
 68.00 Descend abruptly.
 70.00 Enter flat.
 80.41 The cor[ner] to sec[ti]on[s] 4, 5, 8 and 9.
 Land rolling and level.
 Soil 1st rate.
 Timber cottonwood.
 Undergrowth of sage brush.
 70.84 ch[ain]s level. 9.20 ch[ain]s rolling.
 80.41 ch[ain]s thick undergrowth.

N89 °45' on a true line West between sec[ti]on[s] 5 and 32
 Va[riation] 22 °30'E

Over bottom land, through thick undergrowth.
 28.87 **Cross Wenatchee river 2.00 ch[ain]s wide, course SE** and along flat.
 40.00 Set a post
 A spruce 11 in[che]s diam[eter] bears S34 °W 130 l[in]ks dist[ant]
 A spruce 10 in[che]s diam[eter] bears S38 °W 318 l[in]ks dist[ant]
 79.03 Trail bears NW and SE.
 80.00 Set a post
 Land level.
 Soil 1st and 2nd rate.
 Timber of pine and cottonwood.
 Undergrowth of sage brush.
 80.00 ch[ain]s thick undergrowth.

General Description

The land in this township is rolling and mountainous. It is well adapted for growing and agriculture. **Good farming land on both sides of the Wenatchee river and Mission creek which can be irrigated by same.** Soil 2nd and 3rd rate, **A dense growth of pine, spruce and fir, with an occasional tamarack covers the township.** Also thick undergrowth of sage brush. Indian Jackson lives in the NW corner of sec[ti]on] 9 and raises corn, wheat, and vegetables in abundance. He has about 40 head of stock and feels highly elated over his home (Holcomb 1884d).

Cashmere to Leavenworth

TOWNSHIP 24N, RANGE 19E, W.M.

North between sections 31 and 36

Variation 22°00' East

- Ascend through thick undergrowth
- 17.30 Trail bears E and W
- 24.19 Top of steep rocky bluff, bears E and W and descend
- 32.17 **Wenatchee river 3.00 chains wide course SE and ascend**
- 37.50 Enter level bench
- 40.00 Set post 3 feet long, 3 inches square 24 inches in the ground for 1/4 section corner marked
- A pine 26 inches diameter bears N17° E 256 links dist[an]t. . . .
- A pine 26 inches diameter bears N16 1/2 ° E 270 links dist[an]t. . . .
- 42.00 Descend abruptly
- 46.00 Enter flat bears E and W
- 53.19 Trail bears E and W
- 69.00 Ascend abruptly
- 80.00 Set a post 4 feet long, 4 inches square, with charred stake 12 inches in the ground for corner to sections 25,30,31 & 36

Land Mountainous
Soil 2nd & 3rd rate

North between sections 31 and 32

Variation 22°30'E

- Along Bench through dense timber
- 8.23 Trail bears NW and SE
- 12.00 Descend Steep Bluff bears E and W
- 14.23 Foot of Steep Bluff [bears E and W]
- 17.30 **Cross Wenatchee river 2.14 chains wide, course S 50°E**
- 26.30 Ascend Steep bank bears NW and SE
- 28.00 Flat bears E & W
- 32.07 Trail bears N50°W and S 50°E
- 38.00 Leave flat and ascend
- 40.00 Set a post 3 feet long 3 inches square, 24 inches in the ground for 1/4 section corner marked
- A pine 13 inches diameter bears S68 1/4 ° E 18 links dist[an]t. . . .

80.00 A pine 14 in[che]s dia[meter] bears S68 ° W 72 l[in]ks
dist[an]t. . . .
Set a post 4 f[ee]t long 4 in[che]s square with marked stone 12
in[che]s in the ground for cor[ner] to sec[ti]on[s] 29,30,31 & 32
marked

Land mountainous
Soil 3rd Rate
Timber Pine and Spruce
Undergrowth of sage brush
80.00 ch[ain]s mountainous
80.00 ch[ain]s thick undergrowth and dense timber

West between sec[ti]on[s] 4 and 33

Var[iation] 22 ° 30'E

18.00 Descend through thick undergrowth
Enter flat bears NW & SE
21.88 Trail bears N60 ° W and S60 ° E
32.81 Cross Creek 6 l[in]ks wide, course S and ascend
40.00 Set a post 3 f[ee]t long, 8 in[che]s sq[ua]re with charred stake 12
in[che]s in the ground for 1/4 sec[ti]on] cor[ner] marked
51.10 **Cross Wenatchee river 2.36 ch[ain]s wide, course SE**
63.80 **Cross Wenatchee river 3.00 ch[ain]s wide, course NE**
80.00 Set a post 4 f[ee]t long, 4 in[che]s square, 24 in[che]s in the
ground for cor[ner] to sec[ti]on[s] 4,5,32 & 33 marked
An Aspen 12 in[che]s dia[meter] bears S27 ° W 40 l[in]ks
dist[an]t. . . .
An Aspen 8 in[che]s dia[meter] bears N36 ° W 137 l[in]ks
dist[an]t. . . .
An Aspen 10 in[che]s dia[meter] bears N13 ° E 86 l[in]ks
dist[an]t. . . .
An Aspen 10 in[che]s dia[meter] bears S83 ° E 189 l[in]ks
dist[an]t]

Land rolling and level
Soil 1st and 2nd rate
Timber of scattering pine
Undergrowth of sage brush
80.00 ch[ain]s thick undergrowth
July 22, 1884

West between sec[ti]on[s] 5 and 32

Var[iation] 22 ° 30'E

Over bottom land
 Through thick undergrowth
 29.87 **Cross Wenatchee river 2.00 chains wide course SE and along flat**
 40.00 Set a post 3 feet long, 3 inches square 24 inches in the ground for 1/4 section corner marked
 A Spruce 11 inches diameter bears S34°W 13 links distant. . . .
 A Spruce 10 inches diameter bears S38°W 318 links distant. . . .
 79.00 Trail bears NW and SE
 80.00 Set a post 4 feet long, 4 inches square, with charred stake 12 inches in the ground for corner to sections 5,6,31 & 32 marked

 Land level
 Soil 1st & 2nd rate
 Timber of Pine and Cottonwood
 Undergrowth of sage brush
 80.00 chains thick undergrowth

General Description

The land in this Township is mountainous and broken. Soil of 2nd and 3rd rate. **It is well watered by the Wenatchee river and its tributaries. It is heavily timbered. Timber consisting of yellow pine, Spruce and Fir with an occasional Tamarack, with thick undergrowth of sage brush** (Holcomb 1884f).

TOWNSHIP 24N, RANGE 18E, W.M.

North 1' W parallel to East boundary between sections 35 and 36

Variation 22°40'E

- 8.16 Descend through timber
- 8.16 Trail course NE and SW
- 8.76 Fence NE and SW
- 9.31 Enter flat
- 29.06 Walkers House bears S 72 1/2 W 15.00 chains distant
- 29.66 Fence East and West
- 30.06 Country Road East and West to Pechastin
- 30.61 Fence East and West - Walker has about 40 acres under fence improvements permanent value 400.00 thence through Walkers pastures
- 40.00 Set a pine post 4 inches square 48 inches long 12 inches in ground for 1/4 section corner marked
A pine post 4 inches in diameter bears S 10°E 25
feet distant marked
- 43.25 **Right bank of Wenatchee River.** Set a granite stone . . . in the ground for M.C.
A pine tree 24 inches in diameter bears N34°W 54 feet distant marked
- 47.06 **Left Bank Wenatchee River.** . . .
A Cotton wood tree 18 inches in diameter bears N 8 feet distant marked
Ascend
- 47.16 Top of bench 20 feet high thence along flat
- 61.06 Timber trail to Wenatchee River course NE
- 64.56 Foot of Sandstone spur and ascend
- 72.81 Top of spur course NE, SW and descend into Canyon
- 80.00 Set a pine post 4 inches square 54 inches long 12 inches in the ground for corner to sections 25,26,35 & 36 marked

Pine tree 20 inches diameter. . . 97 feet distant marked. . . .
A Red for 16 inches in diameter . . . 90 feet distant marked
. . . .
A pine tree 20 inches in diameter . . . 138 feet distant marked
A pine tree 20 inches in diameter . . . 151 feet distant marked

Land rolling and broken 80 chains
Soil 1st rate

Timber pine & fir 2nd class
From this corner Salt chuck Charleys, "an Indian" house bears
N89° W 10 ch[ain]s dist[ant] about 1 acre under
cultivation valued at \$ 50.

North 89°56'E on random line bet[ween] 26 & 35

Var[iation] 22°39'E

- 40.00 Set temporary 1/4 sec[ti]on cor[ner]
80.00 Intersect the north & south line 12 links south of cor[ner] to
sec[ti]ons 25,26,35 & 36
Thence I run
South 89°51'W on true line bet[ween] sec[ti]ons 26 & 35
Var[iation] 22°39'E
Descend gradual slope through timber
24.83 **Left bank of Wenatchee River course NE & SW**
Set for M.C. a pine post
3.86 chains wide
28.69 **Right bank of Wenatchee River**
Set for M.C. a granite stone
40.00 Set a post 4 in[che]s square 48 in[che]s long with marked stone
12 in[che]s in the ground for 1/4 sec[ti]on cor[ner] marked
A pine tree 10 in[che]s in diameter bears N36°W 150
l[in]ks dist[ant] marked
N.P. Cades house bears N30°W 15 ch[ain]s dist[ant]
Improvements valued at \$500.00
Thence along level bottom
80.00 The cor[ner] to sec[ti]ons 26,27,34,35
Land level
Soil 1st rate
Timber heavy pine & fir 2nd rate 80.00 ch[ain]s

N2°W on true line bet[ween] sec[ti]ons 26 & 27

Var[iation] 22°39'E

- Through timber
32.95 A pine 10 in[che]s in diam[eter] on line on right bank of
Wenatchee River marked
Raised mound of stone around tree 4 f[ee]t base 2 1/2 f[ee]t high
no other trees in limits
36.36 **Left bank of River set a sand stone . . . for M.C.**
38.36 Top of Sandstone bluff
Through timber
39.37 Trail to Wenatchee Lake NE & SW

- 40.00 Set a pine post 4 in[ches] square 48 in[ches] long with marked stone 12 in[ches] in the ground for 1/4 sec[ti]on cor[ner] marked . . . from which a pine 16 in[ches] in diam[eter] bears N42°30'W 77 l[in]ks dist[ant] marked No other tree in limits
- 49.55 A pine 10 in[ches] in diam[eter] on line marked with 2 notches on N & S face
- 80.00 Set for cor[ner] to sec[ti]ons 22,23,26 & 27
A pine post 4 in[ches] square 48 in[ches] long with charred stake 12 in[ches] in the ground marked
A pine tree 18 in[ches] in diam[eter] . . . 148 l[in]ks dist[ant]
A pine tree 24 in[ches] in diam[eter] . . . 80 l[in]ks dist[ant]
A pine tree 20 in[ches] in diam[eter] . . . 38 l[in]ks dist[ant]
A pine tree 16 in[ches] in diam[eter] . . . 45 l[in]ks dist[ant]

Land level south of River

30 ch[ain]s remainder Rolling
Soil 1st & 2nd rate
Timber pine & fir 2nd rate 80.00 ch[ain]s
William & "Indians" are living on N2 of Sec[ti]on] 26
Improvements of no permanent value

North 89°56'E on random line bet[ween] sec[ti]ons 22 & 27

Var[iation] 22°33'E

- 40.00 Set temporary 1/4 sec[ti]on cor[ner]
80.30 Intersect N & S line 30 l[in]ks N of cor[ner] to sec[ti]ons 22,23,26&27
Thence I run
N89°51'W on true line bet[ween] sec[ti]ons 22 & 27
Var[iation] 20°33'E
Through open timber
11.00 Trail course NW & SE
An Indian house bears south about 4 ch[ain]s dist[ant]
Descend
- 39.50 **Left bank of Wenatchee River.** Set a Cottonwood post 4 in[ches] square and 48 in[ches] long in a mound of stone 2 1/2 f[ee]t high 4 1/2 f[ee]t base around post marked
From which a pine tree 36 in[ches] in diam[eter] . . . 22 l[in]ks dist[ant]
A Cottonwood tree 7 in[ches] in diameter . . . 6 l[in]ks dist[ant]
Tho[mas] Stewarts house bears S45°W about 20.00 ch[ain]s dist[ant] about 80 acres under fence 20 acres cultivated
Valued at \$1000 improvements permanent

41.30 **A gravel island**
 43.00 **Left bank of main channel**
[3.68 chains wide]
 46.68 **Right bank Wenatchee River**
 Set for M.C. to frac[tional] sec[tion]s 22 & 27 a granite stone
 49.14 Irrigating ditch course NE & SW
 50.35 Fence course NE & SW
 52.00 Top of bench 30 f[ee]t high thence over level ground
 80.30 The cor[ner] to sec[tion]s 21,22,27 & 28
 Land level
 Soil 1st rate
 Timber pine 2nd rate - some Cottonwood 80.00 ch[ain]s
 April 28, 1892

North 3°W on true line bet[ween] sec[tion]s 21 & 22
 Var[iation]22 °38'E

Over level ground through timber
 14.25 Brow of bench 25 f[ee]t high
 21.75 Right bank of Pechastin creek course NE
 22.55 Left bank of Pechastin creek
 25.38 A pine tree 14 in[ches] in diameter on line with 2 notches on N &
 S sides
 27.25 Foot of bench and course NE
 Ascend 30 f[ee]t
 29.75 Top of bench
 40.00 Set for 1/4 sec[tion] cor[ner] a pine post 4x4x48 in[ches] with
 charred stake 12 in[ches] in the ground marked
 A pine tree 18 in[ches] in diam[eter] . . . 76 l[in]ks dist[ant]. . . .
 A pine 24 in[ches] in diam[eter] . . . 90 l[in]ks dist[ant]
 51.76 A pine 16 in[ches] in diam[eter] on line 2 notches on N & S faces
 Brow of bench 20 f[ee]t high and
 Descend
 61.25 Bottom of bench course NW & SE
 64.18 **Right bank Wenatchee River course SE**
 A cedar on line 12 in[ches] in diam[eter] marked
[6.67 chains wide]
 70.85 **Left bank of Wenatchee River**
 Set for M.C. a granite stone
 Ascend gradually
 80.00 Set a pine post 4 in[ches] in square 48 in[ches] long with marked
 stone 12 in[ches] in the ground for cor[ner] to sec[tion]s 15,16,21
 & 22 marked
 A pine 16 in[ches] in diam[eter] . . . 87 l[in]ks dist[ant]

A pine 20 in[ches] in diam[eter] . . . 110 l[in]ks dist[ant]
A pine 10 in[ches] in diam[eter] . . . 4 l[in]ks dist[ant]
A pine 4 in[ches] in diam[eter] . . . 50 l[in]ks dist[ant]. . . .
No bearing trees to be found I destroyed all traces of this corner

Land level bench
Soil 1st & 2nd rate

**Timber scattering pine 2nd rate some Cottonwood and Alder along
Wenatchee River 80.00 ch[ain]s**

North 89°36'E on Random line bet[ween] sec[tion]s 16 & 21
Var[iation] 22°40'E

- 40.00 Temporary 1/4 sec[tion] cor[ner]
79.85 Intersect N & S line 10 l[in]ks N of cor[ner] to sec[tion]s 15,16,21
& 22
Thence I run
North 889°47'W on true line bet[ween] sec[tion]s 16 & 21
Var[iation] 22°40'E
- 16.50 **Left bank of Wenatchee River course SE**
Set for meander cor[ner] to frac[tional] sec[tion] 16 & 21 a pine
post 4x4x48 in[ches] long in mound of stone marked
A pine 30 in[ches] in diameter . . . 30 l[in]ks dist[ant]. . . .
A pine tree 20 in[ches] in diameter . . . 23 l[in]ks dist[ant]. . . .
[4.10 chains wide]
- 20.60 **Right bank of Wenatchee River course SE**
Set for M.C. to frac[tional] sec[tion]s 16 & 21 a fir post 4 in[ches]
square 48 in[ches] long in a mound of stone
A fir bears south 50°E 50 l[in]ks dist[ant] marked
Derby's house bears N about 15 ch[ain]s dist[ant]
Improvements valued at \$50.00
- 38.75 Trail course NW & SE
39.93 Set a pine post 4 in[ches] square 48 in[ches] long with marked
stone 12 in[ches] in the ground for 1/4 sec[tion] cor[ner] marked . .
. . .
- 48.28 **Right bank Wenatchee River course NE**
Set for M.C. for frac[tional] sec[tion]s 16 & 21 an alder post 4
in[ches] square 48 in[ches] long in a mound of stone
A pine tree 20 in[ches] in diameter . . . 146 l[in]ks distant marked .
. . . .
No other trees in limits
[6.00 chains wide]
- 54.28 **and left bank of Wenatchee River**
Set for M.C. to frac[tional] sec[tion] 16 & 21

A pine post 4 in[ches] square 48 in[ches] long 12 in[ches] in to the ground marked
 72.95 A fence course N & S
 78.85 Cor[ner] to sec[ti]on[s] 16,17,20 & 21

Land level
 Soil 1st rate
 Timber Pine & fir 3rd rate 79.85 ch[ain]s
10.11 ch[ain]s of this line in the River

N4'W on true line bet[ween] sec[ti]on[s] 20 & 21

Va[riation] 22°40'E

Through scattering timber
 1.69 Wagon Road NE & SW
 6.16 Irrigating ditch course NW & SE
 15.44 A pine tree 12 in[ches] in diam[eter] on line 2 notches on North and South sides
 28.54 A fence course E & W and Enter C.W. Sibbs enclosure
 Leave enclosure
 40.00 Set a pine post 4 in[ches] square 48 in[ches] long with charred stake 12 in[ches] in the ground for 1/4 sec[ti]on cor[ner] marked

 A pine tree 24 in[ches] in diam[eter] . . . 24 l[in]ks dist[ant] marked

 A pine tree 24 in[ches] in diam[eter] . . . 18 l[in]ks dist[ant] marked

 C.W. Sibbs House bears S56°30'E 20 ch[ain]s dist[ant]
 80 acres under fence 20 acres cultivated
 Value \$1000.00
 43.24 Fence E & W
 46.96 A pine 20 in[ches] in diam[eter] on line marked with 2 notches on N & S sides
 51.84 Irrigating ditch course NW
 52.29 A fence course East & West
 Geo. St. James House bears W 5 ch[ain]s
 56.44 A fence course E & W enclosure of about 10 acres
 57.50 A fence E & W
 63.50 A wagon Road NW & SE to Wenatchee
 66.24 A bank 15 f[ee]t high E & W
 67.22 **Right bank of Wenatchee River course SE**
 Set for M.C. to frac[ti]on[al] sec[ti]on[s] 20 & 21 a cedar tree standing on line marked
 From this M.C. Wenatchee Trading Co. & Store bears

N70°W 4 ch[ain]s dist[ant] value \$1000.00

A Cable ferry at this point value \$500.00

[7.33 chains wide]

74.55 **Left bank of Wenatchee River, set a granite stone for M[eander] C[orner] marked**

78.80 Wagon Road NW & SE to ferry

80.00 Set a pine post 4 in[ches] square 48 in[ches] long in mound of stone . . . for cor[ner] sot sec[tions] 16,17,20 & 21 marked

A pine tree 18 in[ches] in diam[eter] . . . 54 l[in]ks dist[ant] marked

A pine stump 26 in[ches] diameter . . . 68 l[in]ks dist[ant] marked

A pine tree 12 in[ches] in diam[eter] . . . 59 l[in]ks dist[ant] marked

A pine tree 12 in[ches] in diam[eter] . . . 68 l[in]ks dist[ant] marked

Sand rolling

Soil 1st rate

Timber pine 2nd rate 80.00 ch[ain]s

7.33 ch[ain]s of this line in River

Peter Morrison's House is located in the NE 1/4 of SW 1/4 of sec[tion] 21. Improvements permanent value \$400.00

Jargusen's House is located in the NE 1/4 of sec[tion] 21.

Improvements permanent value \$300.00

North 89°56'E on Random line bet[ween] sec[tion]s 17 & 20

Va[riation] 22°37'E

40.00 Temporary 1/4 sec[tion] cor[ner]

79.83 Intersect N & S line 18 l[in]ks south of cor[ner] to sec[tion]s 16,17,20 & 21

Thence I run

North 89°48'W on true line bet[ween] sec[tion]s 17 & 20

Va[riation] 22°37'E

Through timber

.50 Wagon Road N & S

2.77 **Left Bank of Wenatchee River course SE**

Set for M[eander] C[orner] to frac[tional] sec[tion]s 17 & 20 a pine post marked

A pine tree 10 in[ches] in diameter . . . 6 l[in]ks dist[ant]

[4.52 chains wide]

7.29 **Right Bank Wenatchee River set for M[eander] C[orner] to**

frac[tional] sec[tion]s 17 & 20
 A red fir post 4 in[ches] square 48 in[ches] long in a mound of
 stone marked
 A pine tree 8 in[ches] diam[eter] . . . 17 l[in]ks dist[ant] marked . . .
 .
 A Cottonwood 6 in[ches] diam[eter] . . . 9 l[in]ks dist[ant]
 10.00 Wagon Road NE & SW and ascend
 17.58 Top of spur course N
 39.92 Set for 1/4 sec[tion] cor[ner] a pine post for in[ches] square 48
 in[ches] long with marked stone 12 in[ches] in the ground marked

 A fir tree 30 in[ches] in diam[eter] . . . 25 l[in]ks dist[ant] marked . .
 . .
 Ascend slope N
 79.83 Cor[ner] to sec[tion]s 17,18,19 & 20

Land mountainous 69.83 ch[ain]s level 10 ch[ain]s
 Soil 1st and 3rd rate
 Timber pine & fir 3rd rate 79.83 ch[ain]s

North 89°56'E on random line bet[ween] sec[tion]s 8 & 17

Va[riation] 22°40'E

40.00 Set temporary 1/4 sec[tion] cor[ner]
 79.76 Intersect N & S line 26 l[in]ks south of cor[ner] to sec[tion]s 8,9,17
 & 16
 Thence I run
 South 89°45' W on true line bet[ween] sec[tion]s 8 & 17
 Va[riation] 22°40'E
 Through Scattering timber

39.88 **Left Bank Wenatchee River** set for 1/4 sec[tion] cor[ner] to
 frac[tional] sec[tion]s 8 & 17 and M.C. a pine post 4 in[ches]
 square and 48 in[ches] long in a mound of stone marked
 A pine tree 8 in[ches] in diam[eter] . . . 33 l[in]ks dist[ant] marked .

 A fir 10 in[ches] in diam[eter] . . . 36 l[in]ks dist[ant] marked
[17.37 chains wide]

57.25 **Right Bank of Wenatchee River** set for M[eander] C[orner] to
 frac[tional] sec[tion]s 8 & 17 an alder post 4 in[ches] square 48
 in[ches] long in a mound of stone marked
 A red fir tree 12 in[ches] in diam[eter] . . . 6 l[in]ks dist[ant] marked

 An Alder tree 5 in[ches] in diam[eter] . . . 30 l[in]ks dist[ant] marked

71.15 Leave flat and Ascend
 73.04 Trail Course NW & SE
 77.76 Top of Ascent slope N and Descend
 79.76 Cor[ner] to sec[tion]s 7,8,17 & 18 and
 Country Road SE & NW
 Land 71.16 level on E Remainder hilly
 Soil 1st and 3rd rate
 Timber Pine & Fir 2nd rate 79.76 ch[ain]s
17.37 ch[ain]s of this line in River

N5°W on true line bet[ween] sec[tion]s 7 & 8
 Va[riation] 22°33'E

9.80 Descend through timber
 Bottom of Ravine and Wagon Road NE & SW and Ascend over
 small spur 15 f[ee]t high and
 10.00 Descend
 15.30 Foot of spur
 21.70 A pine tree 16 in[ches] in diam[eter] on line 2 notches in N & S
 sides
 25.40 Wagon Road to Ballou's House NW & SE
 40.00 Set a pine post 4x4x48 with marked stone 12 in[ches] in the
 ground for 1/4 sec[tion] cor[ner] marked
 A pine tree 16 in[ches] in diam[eter] . . . 10 l[in]ks dist[ant] marked

 A pine tree 30 in[ches] in diam[eter] . . . 197 l[in]ks dist[ant]
 marked
 Ballou's house bears W 3 ch[ain]s dist[ant]
 Improvements permanent value \$100
 45.42 Log fence E & W
 47.55 **Right bank Wenatchee River course E & West**
 Set a sandstone 36x10x6 in a mound of stone 2 1/2 f[ee]t high 4
 f[ee]t base for M.C. to frac[tional] sec[tion]s 7 & 8 marked
 A pine tree 18 in[ches] in diam[eter] . . . 6 l[in]ks dist[ant] marked .

 No other tree in limits
[4.19 chains wide]
 51.74 **Left Bank of Wenatchee River** set for M[eander] C[orner] to
 frac[tional] sec[tion]s 7 & 8 a granite stone
 52.80 Foot of bluff and
 Ascend
 57.80 Top of bench course NW & SE thence along level ground
 80.00 Set a pine post 4x4x48 with charred stake 12 in[ches] in the

ground for cor[ner] to sec[ti]on[s] 5,6,7 & 8 marked
 A pine tree 30 in[ches] in diam[eter] . . . 59 l[in]ks dist[ant] marked

 A pine tree 8 in[ches] in diam[eter] . . . 129 l[in]ks dist[ant] marked

 A pine tree 12 in[ches] in diam[eter] . . . 59 l[in]ks dist[ant] marked

 A pine tree 10 in[ches] in diam[eter] . . . 15 l[in]ks dist[ant] marked

Land level 42.81 ch[ain]s balance broken
 Soil 1st & 2nd rate
 Timber pine & fir 2nd rate 80.00 ch[ain]s
4.19 ch[ain]s of this line in River

South 889°56'W on Random line bet[ween] sec[ti]on[s] 6 & 7
 Va[riation] 22°36'E

40.00 Set temporary 1/4 sec[ti]on cor[ner]
 83.75 Intersect west b[oun]d[ar]y 29 l[in]ks N of cor[ner] to sec[ti]on[s]
 6,7,1 & 12
 Thence I run
 North 89°44'E on a true line bet[ween] sec[ti]on[s] 6 & 7
 Va[riation] 22°36'E
 Through Thick pine timber
 18.25 Wagon Road course SW & NE
 26.00 Wagon Road course NW to SE
 35.31 **Right bank of Wenatchee River** set for M[eander] C[orner] a red fir
 post 4x4x54 in[ches] in a mound of stone 2 1/2 f[ee]t high marked

 A pine 10 in[ches] in diam[eter] . . . 82 l[in]ks dist[ant]
 A pine tree 14 in[ches] in diam[eter] . . . 112 l[in]ks dist[ant]
[4.14 chains wide]
 39.45 **Left banks of Wenatchee River** set a pine post 6x6x48 in a mound
 of stone 2 1/2 f[ee]t high
 A pine tree 30 in[ches] in diameter . . . 25 l[in]ks dist[ant] marked .
 . . . No other bearing trees in limits
 43.75 Set a pine post 4 in[ches] square 48 in[ches] long in the ground
 for 1/4 sec[ti]on cor[ner] marked
 A red fir tree 8 in[ches] in diam[eter] . . . 36 l[in]ks dist[ant] marked

 A pine 5 in[ches] in diam[eter] . . . 21 l[in]ks dist[ant] marked
 Ascend
 44.25 Top of bench thence along level ground

80.25 Brow of bench and descend 20 f[ee]t
81.70 Dry water course N & S
83.75 Cor[ner] to S[ections] 5,6,7 & 8

Land rolling
Soil 1st rate
Timber Pine & fir 2nd rate 83.75 ch[ain]s
4.44 of this line in River
May 5th, 1892

General Description

This Township is nearly all mountainous consisting of sharp and high sandstone ridges and bluffs covered with medium sized growths of Pine and some fir timber.

The soil along the Wenatchee River is generally first class sandy loam capable of producing good crops without irrigation.

The shores along the river and the bed are generally Rocky and Gravelly with dense growth of under brush along the banks.

Also the small Valley along the Pechastin Creek contains some good agricultural land.

The greater portions of those valleys have been settled but a short timber.

The Settlers are generally an industrious class of People.

This Township is well watered by the Wenatchee River and Pechastin Creek which offer abundant water for irrigation purposes.

The land South of this Township has several Settlers located in the Canyons and in Camas Prairie which is an elevated Plateau in the south eastern portion about 2500 f[ee]t above the Wenatchee River.

Most of this land is also mountainous and broken but contains sufficient agricultural land to justify the subdividing of it (Emerson 1892b).

Leavenworth to Wenatchee Lake

TOWNSHIP 24N, RANGE 17E, W.M.

South on East boundary on true line between sections 1 & 6

Variation 22°40'E

- 28.40 Through open timber over rolling ground descending
Chumstick creek 20 l[in]ks wide SE
Wagon Road NW & SE from Wenatchee Lake to Wenatchee
- 31.50 Adam Emings house bears W 2.00 ch[ain]s dist[ant]
Improvements permanent. Value\$500.00
- 32.00 Chumstick creek 20 l[in]ks wide SW
- 40.00 Foot of hill NE & SW and ascend
- 44.50 Top of hill NE & SW and descend
- 48.75 Foot of hill and chumstick creek 20 l[in]ks wide SE
- 49.37 Set for 1/4 sec[ti]on cor[ner] an alder post 4x4x48 in[ches] 24
in[ches] in the ground for 1/4 sec[ti]on cor[ner] marked
A Cotton wood tree 10 in[ches] diam[eter] . . . 45 l[in]ks distant . .
. . .
A fir tree 16 in[ches] diam[eter] . . . 25 l[in]ks distant
Ascend steep bank 30 f[ee]t high NW & SE
- 66.84 **Left bank Wenatchee River** Post 4x4x54 in[ches] in mound of
stone 2 1/2 f[ee]t high
A pine tree 30 in[ches] diam[eter] . . . 55 l[in]ks dist[ant]
A fir tree 24 in[ches] diam[eter] . . . 17 l[in]ks dist[ant]
[2.99 ch[ain]s wide]
- 69.83 **Right bank Wenatchee River**
Set for M.C a pine post 4x4x54 in[ches] in a mound of stone 3
f[ee]t high. . . .
A Cottonwood tree 8 in[ches] diam[eter] . . . 34 l[in]ks dist[ant] . . .
. . .
A fir tree 24 in[ches] diam[eter] . . . 17 l[in]ks dist[ant]
- 89.37 Set a pine post 5 in[ches] square and 54 in[ches] long 24 in[ches]
in the ground for cor[ner] to sec[ti]ons 1,6,7 & 12 marked
A pine tree 18 in[ches] diam[eter] . . . 45 l[in]ks dist[ant]
A pine tree 6 in[ches] diam[eter] . . . 34 l[in]ks dist[ant]
A pine tree 24 in[ches] diam[eter] . . . 97 l[in]ks dist[ant]
A pine tree 24 in[ches] diam[eter] . . . 67 l[in]ks dist[ant]
- Land rolling 89.37 ch[ain]s balance level
Soil 1st & 2nd rate
Timber pine & fir 70 ch[ain]s

East on random line between] sections 1 & 12

Va[riation] 22°33'E

40.00 Set temporary 1/4 section] cor[ner]
80.19 Intersect East boundary 33 l[in]ks north of cor[ner] to section]s
6,7,1 & 12
Thence I run
North 89°46'W on true line between] section]s 1 & 12
Va[riation] 22°33'E

19.67 **Right bank Wenatchee River course NE**
A cedar tree 8 in[ches] diam[eter] marked on west
A cedar tree 10 in[ches] diam[eter] . . . 12 l[in]ks dist[ant]
A pine tree 6 in[ches] diam[eter] . . . 2 l[in]ks dist[ant]
[2.94 chains wide]

22.61 **Left bank of Wenatchee River**
Set for M[eander] C[orner] a pine post 4x4x54 in a mound of
stone marked
A pine tree 24 in[ches] diam[eter] . . . 4 l[in]ks dist[ant]
A pine tree 16 in[ches] diam[eter] . . . 38 l[in]ks dist[ant]
A pine tree 30 in[ches] diam[eter] . . . 31 l[in]ks dist[ant]
A pine tree 20 in[ches] diam[eter] . . . 49 l[in]ks dist[ant]

32.12 Trail N & S
40.09 Set a pine post 4 in[ches] square 48 in[ches] long with marked
stone 12 in[ches] in ground for 1/4 section] cor[ner]. . . .
A pine tree 24 in[ches] diam[eter] . . . 66 l[in]ks dist[ant]
A pine tree 10 in[ches] diam[eter] . . . 57 l[in]ks dist[ant]

54.72 Wagon Road N & S
74.22 A fence N & S and
Enter field

80.19 Cor[ner] to section] 1,2,11 and 12
Land level and rolling 80.19 ch[ain]s
Soil 1st rate
Timber pine and fir 74.22 ch[ain]s 2nd rate
balance on field 3.46 of this line in River

East on Random line between] sections 12 & 13

Va[riation] 22°40'E

40.00 Set temporary 1/4 section] cor[ner]
80.00 Intersect E boundary .08 l[in]ks N of cor[ner] to section]s 12,13,17
& 18
Thence I run
North 89°57' West on true line between] section]s 12 & 13

Va[riation] 20°40'E

- 23.80 Descend steep mountainous side through timber
Foot of descent and Wagon Road N and S
Enter dense thicket of thorn and willow
- 25.25 Brush fence N & S
- 40.00 Set a pine post 4 in[ches] square 48 in[ches] long with charred
stake 12 in[ches] in the ground for 1/4 sec[ti]on cor[ner] marked . . .
. . .
A pine tree 6 in[ches] diam[eter] . . . 38 l[in]ks dist[ant]
A pine tree 6 in[ches] diam[eter] . . . 62 l[in]ks dist[ant]
- 74.62 **Right Bank of Wenatchee River course NE** set a willow post 4
in[ches] square 54 in[ches] long 24 in[ches] in the ground
A Cottonwood tree 24 in[ches] diam[eter] . . . 197 l[in]ks dist[ant]
.
[7.85 chains wide]
- 80.00 Corner to 11,12,13 & 14 in the River
- 82.47 **Left Bank Wenatchee River** and W.C. bet[ween] s[ection] 11 & 14
Land mountainous 23.80 ch[ain]s balance level 56.20 ch[ain]s
Soil 1st & 3rd rate
Timber pine & fir 2nd rate, 56.20 ch[ain]s dense brush of
Hawthorn and willow **(7.85 ch[ain]s of this line in the River)**

North 1°W on true line bet[ween] sec[ti]ons 13 & 14

Va[riation] 22°33'E

- 36.07 Through open timber
Right bank Wenatchee River course NE
Set for W.C. a pine post 4x4x54 in[ches] 24 in[ches] in ground
.
A Cotton wood tree 6 in[ches] diam[eter] . . . 168 l[in]ks dist[ant]
.
A Cotton wood tree 8 in[ches] diam[eter] . . . 107 l[in]ks dist[ant]
.
David C. Wilson's house bears S66°E 12 ch[ain]s dis[tant]
15 acres under fence 10 acres under cultivation and \$500
improvements permanent
- 46.77 **[10.70 chains wide]**
Left bank of Wenatchee River. Set for 1/4 W.C. a pine post
4x4x48 in 24 in[ches] in ground
A Cotton wood tree 5 in[ches] diam[eter] . . . 16 l[in]ks dist[ant]
.
A pine tree 5 in[ches] diam[eter] . . . 22 l[in]ks dist[ant]
- 73.00 **Through dense thickets of thorn Cotton wood and willow**
Left bank of Wenatchee River

Set for W.C. a willow post 4x4x54 in[ches] 24 in[ches] in the ground
 A Cotton wood tree 16 in[ches] diam[eter] . . . 8 l[in]ks dist[ant] . . .
 . . .
 A pine tree 14 in[ches] diam[eter] . . . 34 l[in]ks dist[ant]
 80.00 A point 2.47 ch[ains] west of true line
 Set a red fir post 4 in[ches] square 54 in[ches] long 12 in[ches] in the ground
 A pine tree 24 in[ches] diam[eter] . . . 9 l[in]ks dist[ant]
 A pine tree 16 in[ches] diam[eter] . . . 50 l[in]ks dist[ant]
 Land level 80.00 ch[ains]
 Soil 1st rate sandy loam,
 dense thicket 33.23 ch[ains]
17.70 ch[ains] in River balance open
 pine timber 29.07 ch[ains]
 F.D Esters house is located about [10?] center of sec[tion] 13
 about 80 acres under fence 25 acres under cultivation
 Improvements permanent value \$1000
 Breskeys house in SW 1/4 sec[tion] 13 about 20 acres cultivated
 permanent value \$500
 May 16, 1892

General Description

The land in this Township along the Valley of the [. . .] creek is dark rich sandy loam producing fine crops without irrigation much of this land is located by squatters some of them making valuable improvements.

The unsurveyed portion of this township consists of high and rugged mountains rising in some instances above timber line: no part of this can be classified as agricultural land and is unsurveyable

Moses M Emerson
 U.S. Deputy Surveyor

(Emerson 1892d)

West, on a random line, from the witness cor[ner] bet[ween] sec[tion]s 11 and 14

A fir tree 11 in[ches] diam[eter] . . . 8 l[in]ks dist[ant]
 A pine tree 11 in[ches] diam[eter] . . . 73 l[in]ks dist[ant]
 To determine the dist[ance] across the River I set a flag on line,
 on Right bank. . . .
[2.76 chains wide]
 2.76 **To Right bank of Wenatchee River,** set temp[orary] meander
 cor[ner]

- 20.00 Set temp[orary] 1/4 sec[tion] cor[ner]
61.30 Intersect N and S line, 35 l[in]ks N of the cor[ner] of sec[tion]s
10,11,14 and 15
Thence I run
N89°44'E on a true line, bet[ween] sec[tion]s 11 and 14
Over broken N slope through scattering timber and dense
undergrowth.
- 20.00 Rocky ridge, bears NE and SW, 300 f[ee]t above cor[ner]
I descend E slope.
- 41.30 Set a granite stone, 28x9x4 in the ground for 1/4 sec[tion] cor[ner].
.
A pine tree 17 in[ches] diam[eter] . . . 82 l[in]ks dist[ant]
A pine tree 5 in[ches] diam[eter] . . . 70 l[in]ks dist[ant]
- 57.05 Old trail, bears N and S
- 58.54 **To right bank of Wenatchee River**
Set a granite stone 20x12x5 in the ground for meander cor[ner] of
frac[tiona]l sec[tion]s 11 and 14. . . .
A pine tree 10 in[ches] diam[eter] . . . 17 l[in]ks dist[ant]
A cedar tree 20 in[ches] diam[eter] . . . 21 l[in]ks dist[ant]
This cor[ner] stands 800 f[ee]t below ridge
- 61.30 **To left bank of river, and meander cor[ner] of frac[tional] sec[tion]s**
11 and 14
Land, mountainous
Soil, gravelly and rocky; 3rd and 4th rate
Timber, fir, pine and cedar; undergrowth, willow, small timber and
alder
Mountainous land covered with dense undergrowth and
exceptionally difficult to survey, 61.30 ch[ain]s
Cloud prevented lat[eral] observation.

N. 0° 2'W, bet[ween] sec[tion]s 10 and 11

- Rapid descent over N slope through scattering timber and dense
undergrowth
- 11.66 **To Right bank of Wenatchee River, 400 f[ee]t below sec[tion]**
cor[ner]
Set granite stone
[4.81 chains wide]
- 16.40 **To left bank of Wenatchee River**
Point for meander cor[ner] of frac[tiona]l sec[tion]s 10 and 11 falls
on a granite stone. . . .
A cotton wood tree 30 in[ches] diam[eter] . . . 52 l[in]ks dist[ant] . .
.
A pine tree 6 in[ches] diam[eter] . . . 46 l[in]ks dist[ant]

Ascend S slope

14.15 Great Northern Railroad bears N60°E, S60°W

40.00 Point for 1/4 sec[ti]on cor[ner] falls on a granite stone
 A pine tree 7 in[ches] diam[eter] . . . 110 l[in]ks dist[ant]
 A pine tree 7 in[ches] diam[eter] . . . 110 l[in]ks dist[ant]

40.75 Point for witness 1/4 sec[ti]on cor[ner] for sec[ti]on 11 falls on face
 of cliff, 2x60x30 f[ee]t above ground, on which, I cut a (x) cross at
 the cor[ner] point, for witness 1/4 sec[ti]on cor[ner]

40.98 1/2 1/4 sec[ti]on point falls on unstable ground.
 A fir tree 46 in[ches] diam[eter] . . . 22 l[in]ks dist[ant]
 A fir tree 40 in[ches] diam[eter] . . . 81 l[in]ks dist[ant]

73.00 Top of rise, 1900 f[ee]t above river, bears SE and NW
 Thence along E slope

80.00 Point for cor[ner] falls on a granite stone, 3x10x5 f[ee]t above
 ground, on which, I cut a cross for cor[ner] of sec[ti]ons 3 and 10,
 marked with 5 notches on S and 2 notches on E side of cross;
 and raised a mound of stone, 3 f[oo]t base, 2 f[ee]t high
 True point for mound would fall on unstable ground
 Land mountainous
 Soil, gravelly and rocky; 2nd and 4th rate.
 Timber, fir, pine, hemlock, spruce and alder: undergrowth, willow,
 vine-maple and small timber.
 Mountainous land covered with dense undergrowth and
 exceptionally difficult to survey, 80.00 ch[ain]s

Thence in sec[ti]on 9 [Meander Notes]

Along mountainous banks through scattering timber and dense undergrowth

N29°30'W, 10.20 ch[ain]s

N20°15'W, 19.00 ch[ain]s

To the meander cor[ner] of frac[ti]onal sec[ti]ons 4 and 9

Land, mountainous.

Soil, gravelly and rocky; 2nd and 4th rate.

Timber, fir, pine, maple, alder and spruce; undergrowth, vine-maple, willow and alder.

Meanders of the bank of Wenatchee River, up stream

Mountainous land covered with dense undergrowth and exceptionally difficult to survey, 29.20 ch[ain]s

(Emerson 1892d)

TOWNSHIP 25N, RANGE 17E, W.M.

West. on South b[oldy] of section 33

- 0.35 Descend W slope
Great Northern Railroad, bears N and S.
- 0.77 **Left bank of Wenatchee river.**
Set a granite stone
A pine 7 in[che]s diam[eter] bears S14°E 33 l[in]ks dist[ant]
. . . .
A cottonwood 36 in[che]s diam[eter] bears N31°45'W 273
l[in]ks dist[ant]
To determine the distance across, I set a flag on line, on right
bank . . . **therefore the distance across is 4.71 ch[ain]s** which
added to 0.77 cha[in]s, makes
- 5.48 **To right bank of Wenatchee river.**
Set a granite stone
A fir 18 in[che]s diam[eter] bears S70°E 26 l[in]ks dist[ant] .
. . . .
A fir 12 in[che]s diam[eter] bears N46°W 15 l[in]ks dist[ant]
. . . .
Thence over E slope through heavy timber and dense
undergrowth.
- 27.12 Creek, 15 l[in]ks wide, course NE.
Difference bet[ween] measurements of 40.00 cha[in]s by two sets
of chainmen is 6 l[in]ks; position of middle point,
By 1st set, 30.97 ch[ain]s.
By 2nd set, 40.03 ch[ain]s; the mean of which is
- 40.00 Set a granite stone
A pine 36 in[che]s diam[eter] bears N36°W 54 l[in]ks
dist[ant]
A pine 30 in[che]s diam[eter] bears N19°W 82 l[in]ks
dist[ant]
Difference bet[ween] measurements of 80.00 ch[ain]s by two sets
of chainmen is 4 l[in]ks; position of middle point
By 1st set, 80.02 ch[ain]s.
By 2nd set, 79.98 ch[ain]s; the mean of which is
- 80.00 Set a granite stone
A fir 6 in[che]s diam[eter] bears N34°E 154 l[in]ks dist[ant] .
. . . .
A pine 70 in[che]s diam[eter] bears N11°W 43 l[in]ks
dist[ant]
This cor[ner] stands 3000 f[ee]t above Wenatchee river.
Land, mountainous.

Soil, gravelly and stony; 2nd and 3rd rate.
Timber, fir, pine, spruce and cottonwood; undergrowth vine-maple,
willow and small timber.
Mountainous or heavily timbered land covered with dense
undergrowth and exceptionally difficult to survey, 80.00 ch[ain]s.

West, on a true line, bet[ween] sec[ti]on[s] 28 and 33

Descend 1000 feet, very rapidly over rocks and cliffs.
27.60 High tension pole and wire line.
28.24 Center of Great Northern Railway.
28.50 Telegraph line.
29.26 **Left bank of Wenatchee river.**
Set a stone . . . from which bears
A fir, 30 in[che]s dia[meter], S14 1/4 ° E, 266 l[in]ks
dist[ant]
A cross (x) on a large rock, bears N 11 1/2 ° E, 178 l[in]ks
dist[ant]
Land, mountainous. No soil or underbrush.
Timber, a few scattering firs.
Mountainous lands, exceptionally difficult to survey, 29.26 ch[ain]s.

West, on a true line, bet[ween] sec[ti]on[s] 21 and 28.

Line descending, 75 feet
7.90 High tension pole and wire line.
8.51 Center of side track of Great Northern Railway.
9.57 Set a granite stone
A fir, 36 in[che]s dia[meter], N36 ° E, 386 l[in]ks dist[ant]
A fir, 14 in[che]s dia[meter], 10 1/2 ° W, 69 l[in]ks dist[ant]
Land, mountainous. Soil, 4th rate.
Timber, scattering fir. Some underbrush, willow.
Mountainous land, exceptionally difficult to survey, 9.57 ch[ain]s.

West, on a true line, bet[ween] sec[ti]on[s] 16 and 21.

Descend 75 feet, very rapidly, **through scattering fir timber and
underbrush.**
3.10 **Center of creek, 1 l[in]k wide, running N20 ° W.**
6.00 Descending 300 feet, rapidly on hill side sloping SE, through thick
underbrush.
12.75 Creek, 4 l[in]ks wide, runs SW; ascend 300 f[ee]t, very rapidly,

- over sandy bluff sloping SE, through heavy underbrush.
- 23.80 Top of rocky ridge, N and S; from which I descend 550 feet, very rapidly through heavy underbrush and scattering timber over rocks and boulders to
- 39.00 High tension pole and wire line.
- 39.49 Center line of Great Northern Railway track.
- 39.60 Telegraph line.
- 39.73 Set a granite stone
- A cross (x) on face of rock, bears N35 1/2 °E, 100 l[in]ks dist[ant].
- A cross on face of rock, bears S20 1/2 °E, 98 l[in]ks dist[ant]
- Land, mountainous. Soil, sand and rocks; 4th rate.
- Timber, scattering fir and pine.
- Undergrowth, very dense in places, 25.00 ch[ain]s.
- Land mountainous, with dense undergrowth, and exceptionally difficult to survey, 39.73 ch[ain]s.

East, on a random line, bet[ween] sec[ti]on[s] 9 and 16.

- 18.68 Descend 200 feet over rocky land to West side of building, formerly used as a salmon hatchery by the U.S. government.
- 19.90 **Right or West bank of Wenatchee river,**
Set temp[orary] meander corner.
- 22.00 **Set temp[orary] M[eander] C[orner] on left bank of Wenatchee river.**
- 40.00 Set temp[orary] 1/4 sec[ti]on cor[ner]
- 80.00 The cor[ner] of sec[ti]on[s] 9, 10, 15, and 16
- Descend 550 feet, very rapidly, over rocks and sand slides.
- 16.37 Creek, 1 l[in]k wide, runs N10 °W.
From creek, I ascend, 100 feet, through small grove of fir timber.
- 20.75 Creek, 1 l[in]k wide runs N.
- 27.80 Creek, 1 l[in]k wide, runs N; from creek, I ascend 200 feet, over rocks and stones, through some underbrush.
- 40.00 Set a stone
- A yellow pine, 30 in[che]s dia[me]ter, N55 °W, 27 l[in]ks dist[ant]
- A fir, 15 in[che]s dia[me]ter, S86 1/2 °E, 61 1/2 l[in]ks dist[ant]
- Descend very rapidly, over broken rocks, through scattering timber.
- 57.10 High tension pole and wire line.
- 57.71 Center of Great Northern Railway track.

- 57.85 Telegraph line.
- 57.98 **Left bank of Wenatchee river; Set a stone**
 A cross (x) on face of rock, bears S41 1/2 ° E, 56 l[in]ks
 dist[ant]
 A cross (x) on face of rock, bears N43 °E, 89 l[in]ks dist[ant]
**I now cross river and set permanent meander corner on
 right bank of river, for which I use a lime stone**
 A cedar, 18 in[che]s dia[meter], N7 3/4 °W, 77 l[in]ks
 dist[ant]
 A fir, 15 in[che]s dia[meter], S58 3/4 °W, 199 l[in]ks dist[ant]

 Distance between meander corners = 211 l[in]ks.
- 60.09 **M[eander] C[orner] on right bank of Wenatchee river, as
 hereabove described.**
- 60.72 East side of old U.S. salmon hatchery, abandoned.
- 61.32 West side of hatchery.
 Note: On small plateau, 2.00 ch[ain]s North of hatchery, is located
 a living house with out buildings, now in a ruined condition. From
 hatchery ruins, I now ascend 100 feet along South side of creek.
- 71.00 Beginning of gentle ascent, through open small valley, 100 feet.
- 80.00 The Corner of sec[ti]on[s] 8, 9, 16, and 17.
 Land, mountainous. Soil, sand and rocks; 4th rate.
 Timber, scattering fir and pine, 60.00 ch[ain]s.
 Underbrush in places, vine and maple and willow, 20.00 ch[ain]s.
 Mountainous lands, exceptionally difficult to survey, 80.00 ch[ain]s.
- N0 °2'W, on a true line, bet[ween] sec[ti]on[s] 9 and 10.
- 21.07 Descend rapidly, 500 feet, over rolling side hill, through scattering
 timber and heavy underbrush to
 Creek, 2 l[in]ks wide, running N60 °W.
 Ascend 350 feet over the same kind of country, with less
 underbrush.
- 40.00 Set a fir post
 A pine, 24 in[che]s dia[meter], N53 1/2 °E, 54 l[in]ks
 dist[ant]
 A fir, 18 in[che]s dia[meter], S58 1/2 °W, 70 l[in]ks dist[ant] .

 Descend very rapidly, 575 feet, through scattering fir and pine
 timber, over rolling hillside; some underbrush of willow and
 arrowwood.
- 70.00 Creek, 1 l[in]k wide, runs N60 °W.
- 70.80 Ascending 50 feet, through small grove of pine timber.
- 74.80 North end of pine grove from which I descend to

79.45 **Left bank of Wenatchee river.** Set a fir post
 A fir, 8 in[che]s dia[eter], S25 °E, 26 l[in]ks dist[ant]
 A fir, 14 in[che]s dia[eter], S47 °W, 49 l[in]ks dist[ant] . . .
 Land, mountainous.
 Soil, sand and gravel; 4th rate.
 Timber, scattering pine and fir.
 Undergrowth, willow arrow-wood and maple, thick in places.
 Mountainous lands, exceptionally difficult to survey, 79.45 ch[ain]s.

Meanders of the left bank of Wenatchee river, down stream. I cannot now, on account of high water, reach temp[orary] N.C. on left bank of Wenatchee river between sec[tion]s 3 and 10, and as W.C. for temp[orary] N.C. is located on left bank of small branch of river, which is a fir post, in good condition, marked and witnessed as described by the surveyor general, I will start meandering from this W.C.

Thence I run with meanders in Sec[tion] 10.

Along branch of river.

S32 1/2 °W 2.10 ch[ain]s. **Low bank, 3 f[ee]t high, through thick vine maple and rose bushes**

S65 1/4 °W 2.00 "

S35 1/2 °W 1.20 "

S67 1/2 °W 2.00 "

S26 1/2 °W 1.80 "

S63 1/2 °W 2.30 "

N84 1/2 °W 3.00 "

N73 3/4 °W 1.50 "

To left bank of main river.

River now runs along foot of mountainous hills.

S89 °W 1.90 "

S78 1/4 °W 1.30 "

N88 1/2 °W 2.40 "

N77 1/2 °W 6.30 "

Rock slide.

N66 °W 4.00 "

High cliff above.

N61 1/2 °W 1.90 "

Hill to left steep and covered with scattering timber, pine and fir.

N49 1/2 °W 1.10 "

N57 1/4 °W 1.20 "

N59 °W 1.40 "

S83 1/2 °W 1.10 "

S79 °W 1.13 "

To M[eander] C[orner] bet[ween] sec[tion]s 9 and 10.

Land, mountainous, 25. 63 ch[ain]s.

Level, 14.00 ch[ain]s.

Soil, sand and rocks; 3rd rate.

Timber, scattering for and pine.

Land covered with underbrush, vine maple, rose bushes and willows, 20.00 ch[ain]s.

Land mountainous, covered with dense undergrowth and exceptionally difficult to survey, 39.63 ch[ain]s.

West on a true line between section]s 3 and 34

- Over mountainous land through heavy timber and dense undergrowth.
- 18.50 A fir 5 in[che]s diam[eter] bears N26°E 54 l[in]ks dist[ant] . . 1.00
Begin steep ascent along northerly slope.
375 f[oo]t ascent, a spur slopes NW
Begin to descend Westerly slope to river.
- 40.00 Set a pine post
A pine 10 in[che]s diam[eter] bears S26°30'E 43 l[in]ks dist[ant]
A pine 24 in[che]s diam[eter] bears N21°4'SW 156 l[in]ks dist[ant]
- 58.00 Bottom of descent 700 f[ee]t. Enter bench land above river bears N and S.
- 66.60 Old wagon road bears NW and SE.
- 70.45 **Left bank of Wenatchee river flows about South.**
Set a granite stone
A fir 5 in[che]s diam[eter] bears N26°E 54 l[in]ks dist[ant] . .
. . .
A fir 5 in[che]s diam[eter] bears S32°30'E l[in]ks dist[ant] .
. . . .
- 74.92 **Right bank of river.** Set a granite stone
A cottonwood 3 in[che]s diam[eter] bears S19°W 12 l[in]ks dist[ant]
A fir 4 in[che]s diam[eter] bears N79°W 105 l[in]ks dist[ant]
. . . .
- 75.10 Old wagon road bears N and S.
Begin ascent of a steep sliding rocky bluff.
- 80.00 275 f[ee]t ascent set a fir post
A fir 12 in[che]s diam[eter] bears N50°E 44 l[in]ks dist[ant] .
. . . .
A fir 20 in[che]s diam[eter] bears S23°30'E 64 l[in]ks dist[ant]
A fir 24 in[che]s diam[eter] bears S34°W 29 l[in]ks dist[ant]
. . . .
A fir 16 in[che]s diam[eter] bears N46°30'W 112 l[in]ks

dist[ant]
Land mountainous
Soil, gravel and hard clay loam. 2nd to 4th rate.
Timber, pine and fir.
Undergrowth, small timber, willow, vine maple, rose bush, and
serviceberry
Mountainous, heavily timbered and dense undergrowth, 80
ch[ain]s
[July 28, 1898]

General Description

This township contains two varieties of land, narrow river and creek bottoms and rough hills and ridges, or low mountains, in the east and northern parts. The south western part contains rough, precipitous granite mountains, raising to a height of four to five thousand feet above sea level.

The Wenatchee River enters the township near the NW cor[ner] of sec[tion] three and flows in a southerly direction with many sharp bends and leaves the township near the cor[ner] of sec[tion]s thirty three and thirty four, according to the old survey of the boundary lines. The river ranges in width from three to five chains and is a very rapid stream, with numerous rapids and cascades, particularly from a point near the center of center of sec[tion] nine to the south boundary of the township, the whole of this distance is through a rough and precipitous canyon, the walls of which are more than a thousand feet in height and are composed of barren granite ledge. The Great Northern Railroad enters the othe[r] township at the north boundary of sec[tion] five and has a generally southern course and crosses the Wenatchee river near the center of sec[tion] nine, on a How[e] truss bridge, about two hundred feet in length, from which the railroad keeps the left bank of the river across the township.

The railroad company having blasted out the solid granite ledge in constructing the road bed.

The hills and mountains are timbered with an inferior growth of yellow pine timber and some red fir, **the river bottoms are timbered with spruce, cottonwood, pine and maple, with dense undergrowth throughout.** There is one settler in sec[tion] 24, one in sec[tion] 12 and one each in section 4 and 5.

The Chiwakum post office is in section 5, is located in a small grocery store. Chiwakum is a water station on the Great Northern Railway (Fitzhenry and Germond 1906b)

TOWNSHIP 26N, RANGE 17E, W.M.

N0°01'W on a true line between sections 34 and 35.

- Over mountainous land through heavy timber and dense undergrowth.
Begin to descend.
- 10.00 Bottom of draw drains NW a slight ascent and continue to descend.
- 24.30 Bottom of descent 300 feet. Enter river bottom bears East and West.
- 38.95 **Left branch of Wenatchee river.** Set a granite stone
A pine 36 inches diameter bears S37°E 46 inches distance
A cottonwood 24 inches diameter bears S72°15'W 128 inches distance
- 39.51 **A point in gravel beach of river.** Set a flag in line on right bank of river . . . Crossed river and set instrument at point of flag . . .
Distance from point on gravel beach to point of flag on right bank 3.21 chains.
- 42.72 **On right bank of river 25 feet above river.** Set a granite stone
A pine 12 inches diameter bears S79°45'E 56 inches distance
A pine 16 inches diameter bears N56°15'W 19 inches distance
Begin a steep South easterly ascent of mountain.
- 43.50 Old wagon road bears E and W.
- 60.00 Sliding broken rock and rock ledges.
- 75.00 Top of rock ledges and mountain spur. Slopes SE.
1100 feet above river. Begin to descend North easterly slope.
- 80.00 100 feet descent. Set a sand stone
A pine 30 inches diameter bears N23°15'E 156 inches distance
A pine 30 inches diameter bears S43°30'E 121 inches distance
A pine 36 inches diameter bears S32°W 60 inches distance
A pine 18 inches diameter bears N17°30'W 182 inches distance
Land mountainous.
Soil. South of river, a sandy loam 2nd rate.
North of river stony and gravelly 4th rate.
Timber, fir and pine.

Undergrowth, small timber, vine maple, willow, and chaparral.
Mountainous heavily timbered and dense undergrowth. 80
ch[ain]s.

North on a true line between section]s 35 and 36

Over mountainous land through heavy timber and dense
undergrowth.
Begin to descend northerly slope.
14.50 300 f[oo]t descent and begin to ascend.
23.00 125 f[oo]t ascent. Top of a spur slopes West.
Begin to descend a northerly slope.
37.00 500 f[oo]t descent, enter river bottom.
39.59 **Left bank of Wenatchee river.**
A fir 12 in[che]s diam[eter] for M[eander] C[orner] to frac[tional]
sec[tions] 35 and 36 and W.C. 1/4 S
A fir 10 in[che]s diam[eter] bears S60°E 13 l[in]ks dist[ant] .
. . . .
A fir 14 in[che]s diam[eter] bears S21°15'W 14 l[in]ks
dist[ant]
A fir 5 in[che]s diam[eter] bears N26°E 54 l[in]ks dist[ant] . .
. . .
**I lined in a flag on right bank of river . . . I then crossed over river
and set instrument at point of flag . . . distance across the river
3.34 ch[ain]s.**
42.93 **Right bank of Wenatchee river.**
42.90 3 l[in]ks south of point of flag. Set a granite stone
A pine 16 in[che]s diam[eter] bears N73°E 73 l[in]ks
dist[ant]
A pine 8 in[che]s diam[eter] bears N21°W 57 l[in]ks
dist[ant]
45.90 A slough 10 l[in]ks wide bears E and W.
50.10 Old wagon road bears E and W.
54.00 Leave river bottom and enter bench land, 25 f[ee]t above.
Undergrowth becomes scattering
60.00 Begin to gradually ascend over hilly land.
80.00 100 f[oo]t ascent. Set a sand stone
A pine 20 in[che]s diam[eter] bears N27°E 28 l[in]ks
dist[ant]
A pine 24 in[che]s diam[eter] bears S87°30'E 93 l[in]ks
dist[ant]
A pine 14 in[che]s diam[eter] bears S56°W 71 l[in]ks
dist[ant]
A pine 18 in[che]s diam[eter] bears N31°15'W 121 l[in]ks

dist[ant]
 Land rolling and mountainous.
 Soil, sand and clay loam and gravelly in places, 2nd to 4th rate.
 Timber, pine and fir.
 Undergrowth, small timber, vine maple, willow, rose bush, and
 chaparral.
 Mountainous 57 ch[ain]s. Heavily timbered 80 ch[ain]s. Dense
 undergrowth 54 ch[ain]s.

East on a random line between sec[tion]s 25 and 36.

- 40.00 Set temp[orary] 1/4 sec[tion] cor[ner].
 53.11 **Set temp[orary] M[eander] C[orner] on right bank of river . . .** |
 run East 9.51 ch[ain]s . . . which is dist[ance] across river.
 62.62 **Left bank of river set temp[orary] M[eander] C[orner]**
 80.38 Cor[ner] of sec[tions] 25, 30, 31, and 36 bears N 40 l[in]ks
 dist[ant]. | therefore run S89°43'W on a true line between
 sec[tion]s 25 and 36. Over rolling and mountainous land through
 heavy timber and dense undergrowth.
 Begin to descend steep westerly slope.
 9.00 Bottom of descent 300 f[ee]t. **Enter river bottom and dense jungle
 of undergrowth.**
 16.60 A trail bears N and S.
 17.76 **Left bank of Wenatchee river.**
 Set a granite stone
 A cottonwood 30 in[che]s diam[eter] bears S23°W 9 l[in]ks
 dist[ant]
 A pine 24 in[che]s diam[eter] bears N59°W 25 l[in]ks
 dist[ant]
 27.27 **Right bank of Wenatchee river.** A willow 6 in[che]s diam[eter] for
 M[eander] C[orner] of frac[tional] sec[tions] 25 and 36. Marked
 M[eander] C[orner] on E T26N on W, R 17E S 36 on S and S25
 on N faces from which
 A cottonwood 24 in[che]s diam[eter] bears S35°30W 18
 l[in]ks dist[ant]
 A cottonwood 24 in[che]s diam[eter] bears N70°W 28
 l[in]ks dist[ant]
 38.00 Leave river bottom, ascend 25 f[ee]t on bench land. Undergrowth
 becomes scattering. S trail bears N and S.
 40.38 Set a granite stone
 A fir 8 in[che]s diam[eter] bears S56°E 41 l[in]ks dist[ant] . .
 . . .
 A pine 24 in[che]s diam[eter] bears N28°30'W 58 l[in]ks
 dist[ant]

- 50.00 Begin a gradual ascent over rolling land.
 80.38 100 f[oo]t ascent. Cor[ner] of sec[tion]s 25, 26, 35, and 36.
 Land, mountainous and rolling.
 Soil, sandy loam and gravel 2nd and 4th rate.
 Timber, pine, fir, cottonwood and alder.
 Undergrowth, vine maple, willow, small timber, serviceberry and
 chaparral.
 Mountainous 9.00 ch[ain]s.
 Heavily timbered 80.38 ch[ain]s.
 Dense undergrowth 38 ch[ain]s.

East on a random line between sec[tion]s 24 and 25

- 40.00 Set temp[orary] 1/4 sec[tion] cor[ner].
 73.04 **Right bank of Wenatchee river.** Set temp[orary] M[eander]
 C[orner].
 73.54 On gravel beach, a point from which I form triangle for distance
 across river . . . distance across river 3.16 ch[ain]s.
 76.70 Across river on beach.
 76.81 **Set temp[orary] M[eander] C[orner] on left bank of river.**
 82.85 Cor[ner] of sec[tion]s 19, 24, 25, and 30 bears N 38 l[in]ks
 dist[ant]. I therefore run S89°44'W on a true line between
 sec[tion]s 24 and 25. Over hilly and mountainous land through
 heavy timber and dense undergrowth. Begin to descend steep
 sliding Westerly slope.
 6.04 **On left bank of Wenatchee river set a pine post**
 A pine 14 in[che]s diam[eter] bears N7°E 25 l[in]ks dist[ant]

 A pine 14 in[che]s diam[eter] bears S5°W 35 l[in]ks
 dist[ant]
 6.15 **300 f[oo]t descent and edge of water.**
 9.81 **On right bank of river.** A pine 50 in[ches] diam[eter] for M[eander]
 C[orner] of frac[tional] sec[tion]s 24 and 25
 A pine 5 in[che]s diam[eter] bears S37°W 27 l[in]ks
 dist[ant]
 A pine 50 in[che]s diam[eter] bears N80°30'W 95 l[in]ks
 dist[ant]
 17.85 A cabin bears S about 2 ch[ain]s dist[ant].
 36.00 A trail bears N and S.
 42.85 Set a granite stone
 A fir 24 in[che]s diam[eter] bears S74°W 30 l[in]ks dist[ant]

 A fir 10 in[che]s diam[eter] bears N19°30'E 32 l[in]ks
 dist[ant]

82.85 Begin to ascend Easterly slope of mountain.
 500 f[oo]t ascent cor[ner] of sec[tion]s 23, 24, 25 and 26.
 Land, rolling and mountainous.
 Soil, Sandy loam and gravel 2nd to 4th rate.
 Timber, fir and pine.
 Undergrowth, vine maple, chaparral, small timber and willow.
 Mountainous 46.15 ch[ain]s.
 Heavily timbered and dense undergrowth 82.85 ch[ain]s.

East on a random line between sec[tion]s 13 and 24.

37.80 **Right bank of Wenatchee river** set temp[orary] M[eander] C[orner] and W.C. 1/4 sec[tion] . . . **distance across river 2.71 ch[ain]s.**

40.51 On rock beach left side of river.

41.55 **On left bank of Wenatchee river** set temp[orary] M[eander] C[orner].

84.23 Cor[ner] of sec[tion]s 13, 18, 19, and 24 bears N47°W 69 l[in]ks dist[ant]. Set a fir post

A pine 12 in[che]s diam[eter] bears S66°15'W 21 l[in]ks dist[ant]

A pine 20 in[che]s diam[eter] bears N34°30'W 17 l[in]ks dist[ant]

I destroy all markings on old cor[ner] of sec[tion]s 13, 18, 19 and 24 and bearing trees which refer to sec[tion]s 13 and 24.

From C.C. of sec[tion]s 13 and 24 I run West on a true line between sec[tion]s 13 and 24, over mountainous land through heavy timber and dense undergrowth.

Begin a steep ascent of Western slope.

29.70 A trail bears NW and SE.

42.68 **Left branch of Wenatchee river.** Set a granite stone

A fir 12 in[che]s diam[eter] bears N40°30'E 8 l[in]ks dist[ant]

A fir 10 in[che]s diam[eter] bears S55°W 2 l[in]ks dist[ant]

Bottom of descent 500 f[ee]t.

46.43 **Right bank of Wenatchee river.** A pine 10 in[che]s diam[eter]

A cedar 8 in[che]s diam[eter] bears N7°30'E 13 l[in]ks dist[ant]

A cottonwood 14 in[che]s diam[eter] bears S32°30'W 8 l[in]ks dist[ant]

Begin a gradual ascent.

48.20 A trail bears N and S.

74.40 A dry creek bed 10 l[in]ks wide drains SE.

82.00 Same dry creek bed 10 l[in]ks wide drains NE.

84.23 200 f[oo]t ascent. Cor[ner] of sec[ti]on[s] 13, 14, 23 and 24.
 Land, rolling and mountainous.
 Soil, sand and clay loam with gravel in places. 2nd to 4th rate.
 Timber, fir and pine.
 Undergrowth, small timber, vine maple, willow and chaparral.
 Mountainous 42.45 ch[ain]s.
 Heavily timbered and dense undergrowth 84.23 ch[ain]s.

East on a true line between sec[ti]on[s] 12 and 13.

Over mountainous and rolling land through heavy timber and dense undergrowth.
 Begin to ascend.

8.40 Top of ridge 100 f[oo]t ascent bears N and S.
 Begin to descend Easterly slope,

21.00 A trails bears NE and SW.

25.70 Bottom of descent 500 f[ee]t. **Right bank of Wenatchee river.** A cedar 12 in[che]s diam[eter]
 A cedar 14 in[che]s diam[eter] bears S9°30W 24 l[in]ks dist[ant]
 A pine 16 in[che]s diam[eter] bears N49°30W 72 l[in]ks dist[ant]
 A fir 5 in[che]s diam[eter] bears N26°E 54 l[in]ks dist[ant]

Lined in flag on high ground on left side of river . . . gives 4.49 ch[ain]s dist[ance] across river to flag.

29.68 **Left bank of river** set a granite stone
 A fir 30 in[che]s diam[eter] bears N40°15'E 48 l[in]ks dist[ant]
 A fir 6 in[che]s diam[eter] bears S34°E 62 l[in]ks dist[ant]
 A fir 5 in[che]s diam[eter] bears N26°E 54 l[in]ks dist[ant]

Begin to ascend slightly, over rolling land.

30.29 A trail bears N and S.

40.00 Set a granite stone
 A pine 14 in[che]s diam[eter] bears S50°15'E 16 l[in]ks dist[ant]
 A pine 12 in[che]s diam[eter] bears N6°W 37 l[in]ks dist[ant]

68.50 Road. Wenatchee lake to Leavenworth bears NW and SE
 W.W. Burges's house, barn, and general farm improvements to
 the value of about \$1000 bears N about 30 ch[ain]s dist[ant].

84.65 150 f[oo]t ascent. Cor[ner] of sec[ti]on[s] 7, 12, 13 and 18 bears

N1°38'E 18 l[in]ks dist[ant]. Set a pine post
 A pine 24 in[che]s diam[eter] bears S60°30'W 69 l[in]ks
 dist[ant]
 A pine 20 in[che]s diam[eter] bears N19°W 51 l[in]ks
 dist[ant]
 I destroy all markings on old cor[ner] of sec[tion]s 7, 12, 13 and 18
 and bearing trees which refer to sec[tion]s in T[ownshi]p 26N,
 R17E.
 Land, rolling and mountainous.
 Soil, sandy and clay loam 2nd rate.
 Timber, pine and fir.
 Undergrowth, small timber, vine maple, willow and chaparral.
 Mountainous 25.70 ch[ain]s.
 Heavily timbered and dense undergrowth 84.65 ch[ain]s.

I run East on a true line between sec[tion]s 1 and 12

Over rolling and mountainous land through heavy timber and
 dense undergrowth.
 Begin a slight descent.
 19.70 A brook 3 l[in]ks wide flows SE.
 36.15 A trail bears NW and SE.
 40.00 Set a pine post
 A pine 14 in[che]s diam[eter] bears N38°30'E 48 l[in]ks
 dist[ant]
 A pine 14 in[che]s diam[eter] bears S63°15'W 23 l[in]ks
 dist[ant]
 A fir 5 in[che]s diam[eter] bears N26°E 54 l[in]ks dist[ant] . .
 . . .
Right bank of Wenatchee river 200 f[oo]t descent.
 A pine 10 in[che]s diam[eter]
 A cedar 16 in[che]s diam[eter] bears N19°E 20 l[in]ks
 dist[ant]
 A pine 14 in[che]s diam[eter] bears S4°30'W 24 l[in]ks
 dist[ant]
**I lined in a flag on left bank of river . . . and ran from flag on offset
 East 3.32 ch[ain]s to a point due north of flag in line, which gives
 distance across river.**
 74.17 **Left bank of river.** Set a granite stone
 A fir 5 in[che]s diam[eter] bears S7°E 31 l[in]ks dist[ant] . . .
 .
 An alder 6 in[che]s diam[eter] bears N21°W 40 l[in]ks
 dist[ant]
 Begin easy steep ascent.

80.20 A trail bears N and S.
 85.07 300 f[oo]t ascent. Cor[ner] of sec[ti]on[s] 1, 6, 7 and 12 bears N43°E 1.58 l[in]ks dist[ant]. Set a granite stone
 A fir 16 in[che]s diam[eter] bears N15°W 92 l[in]ks dist[ant]

 A fir 18 in[che]s diam[eter] bears S76°W 139 l[in]ks dist[ant]
 I destroy all markings on old cor[ner] of sec[ti]on[s] 1, 6, 7 and 12 and bearing trees which refer to sec[ti]on[s] in T[ownship] 26N, R 17E.
 Land, rolling and mountainous.
 Soil, sand and clay loam 2nd to 3rd rate.
 Timber, pine and fir.
 Undergrowth, small timber, willow, vine maple, and chaparral.
 Mountainous 10.90 ch[ain]s.
 Heavily timbered and dense undergrowth 85.07 ch[ain]s.

East from C.C. of sec[ti]on[s] 1 and 2 on N boundary of T[ownship]

5.48 Begin to ascend.
 100 f[oo]t ascent. Cor[ner] of sec[ti]on[s] 1, 2, 35 and 36
 I destroy all marking on cor[ner] and bearing trees that refer to sec[ti]on[s] 1 and 2 T[ownshi]p 26N, R11E.
 Land mountainous. Soil clay loam and gravel. 3rd rate.
 Timber, pine and fir.
 Undergrowth, chaparral and willow.
 Mountains and heavily timbered 5.48 ch[ain]s.

General Description

This township is rough and mountainous throughout. The soil is spotted, varying from rich loam to hard clay, gravel, stone, and rock, the richer soil formed on the bench and bottom lands.

The township throughout is timbered, principally with pine and fir. Mostly of a very secondary milling grade. The stone found in this township is sandstone and granite, neither of which are of Commercial Value.

The township is watered by the Wenatchee river, Nason Creek, and a few smaller creeks and brooks. The high lands become dry and parched during the drought of summer.

The Great Northern R.R. enters township on the South line of sec[ti]on] 32 and runs thence N and W, leaving on the W line of sec[ti]on] 7 (Whitham 1898b).

TOWNSHIP 27N, RANGE 17E, W.M.

South boundary of section 36

Thence I run S89°45'W on a blank line, on the south boundary of section 36; at 32.82 chains **E bank of Wenatchee river; waded and measured across to 36.17 chains, west bank of river;** at 40 chains the old 1/4 section corner bears N 67 1/2°W, 2.27 chains; at 80 chains the old corner of sections 1, 2, 3, 5, and 36, bears N52°W, 2.37 chains; at 120 chains the old 1/4 section corner bears N65 1/2°W, 2.67 chains; at 160 chains the old corner for sections for 2, 3, 34 and 35, bears N63 1/2°W, 1.95 chains; at 200 chains the old 1/4 section corner bears N66 1/4°W, 2.66 chains; at 240 chains, after diligent search no signs of the old corner of sections 3, 4, 33 and 34, can be found.

I continue the blank line S89°45'W, 6 miles and 1.80 chains, setting a temporary corner at the distance called for by the surveyor general, for the location of corner of Townships 26 and 27 N, Ranges 16 and 17 E. After diligent search, no blazed lines, section at the corner can be found. In fact, no signs of a survey ever having been made.

East boundary of section 36

From the Township corner already described, I run North, on a blank line on the E body of section 36; at 40 chains no signs of the 1/4 section corner can be found; and at 80.62 chains the corner of sections 25, 30, 31 and 36, bears E 34 links; therefore I continue my line north; find no part of the east boundary in alignment, and that many of the corners are nearly obliterated. At 5 miles 79.65 chains the corner of Townships 27 and 28 N, Ranges 17 and 18 E, 3,35 chains.

The post being gone I re-establish this corner from the original bearing trees, as follows:

Set a yellow pine post

A yellow pine 26 inches diameter bears N12 1/2°E 18 links
distance

A yellow pine 20 inches diameter bears S59°E 53 links
distance

A yellow pine 24 inches diameter bears N63°W 58 links
distance

North on Sectional Guide Meridian between Sections 35 and 36

4.00 Descend gradually from corner through heavy timber and scattering undergrowth and rocky surfaces.
Enter dense undergrowth.

- 24.00 Top of steep descent, bears N25°W and S25°E,
about 30 feet below corner
Between this point and the 1/4 section corner I find local
attraction.
- 40.00 Set a fir post
A fir 12 inches diameter bears N86°E 42 1/2 inches
distance
A yellow pine 24 inches diameter bears N47°W 51 inches
distance
This corner is 325 feet below section corner.
- 43.40 Descend abruptly NE slope.
- 52.00 Foot of steep descent, 170 feet below 1/4 section corner bears
E and W, thence over level land.
- 54.30 Old trail, bears NW and SE.
- 67.77 **To right bank of Wenatchee river.**
Set a granite stone
A yellow pine 48 inches diameter bears S27 3/4°W 80
inches distance
A white fir 31 inches diameter bears S18°E 91 inches
distance
**The river is 50 feet below foot of steep descent. To determine
the distance across, I set a flag on left bank of the river . . . the
distance is 3.80 chains + 66.77"**
- 71.57 **To left bank of Wenatchee river.**
Set a granite stone
A black pine 12 inches diameter bears N55 1/2°E 70
inches distance
A black pine 12 inches diameter bears N11 3/4°W 167
inches distance
Thence over level land, dense undergrowth and scattering timber.
- 80.00 Set a fir post
A yellow pine 30 inches diameter bears N71°E 77 inches
distance
A yellow pine 33 inches diameter bears S59°E 117
inches distance
A yellow pine 42 inches diameter bears S37°W 69 inches
distance
A fir 13 inches diameter bears N63 1/2°W 41 inches
distance
This corner is 275 feet below the 1/4 section corner.
Land, level and mountainous.
Soil, alluvial, in river bottom, the rest clay and rock 2nd and 3rd
rates.
Timber, heavy pine and fir, with dense undergrowth of willow,

chaparral, crab apple, alder and salmonberry.

East on a random line between Section]s 26 and 35

- 40.00 Set temp[orary] 1/4 sec[ti]on] cor[ner].
- 64.45 **To right bank of Wenatchee river.**
Set temp[orary] meander cor[ner].
To determine the dist[ance] across, I set a flag on line on left bank
of river . . . **the dist[ance] is 3.33 + 64.45 makes**
- 67.78 **To left bank of river.** Set temp[orary] meander cor[ner].
- 79.92 Intersect N and S line 2 l[in]ks N of cor[ner] of sec[ti]on]s 25, 26,
35 and 36.
Thence I run
N89°59'W, on a true line bet[ween] Sec[ti]on]s 26 and 35.
Over nearly level bottom land, through heavy timber and dense
undergrowth.
- 10.09 A yellow pine 48 in[che]s dia[meter] on line, I mark with 2 notches
on E and W sides.
- 12.12 **To left bank of Wenatchee river.**
Set a granite stone
A cottonwood 36 in[che]s diam[eter] bears N36°E 12 l[in]ks
dist[ant]
A black pine 20 in[che]s diam[eter] bears S9°E 86 l[in]ks
dist[ant]
- 45.45 **To right bank of Wenatchee river.**
Set a granite stone
No trees in limits.
- 48.60 Leave bottom, bears N and S.
Begin ascent.
- 49.50 Top of ascent 50 f[ee]t above river.
Enter heavy timber with windfall of pine and fir, bears N and S;
thence over nearly level land.
- 26.00 Old trail, bears N and S.
- 26.72 A yellow pine, 26 in[che]s dia[meter], on line, I mark with 2
notches on E and W sides.
- 37.00 Leave windfall, bears N30°E and S30°W.
Enter scattering undergrowth.
- 39.96 Set a fir post
A yellow pine 36 in[che]s diam[eter] bears N26°E 54 l[in]ks
dist[ant]
This cor[ner] is 60 f[ee]t above sec[ti]on] cor[ner].
- 43.00 Enter dense undergrowth, bears NW and SE.
- 49.80 Enter scattering undergrowth, bears N and S.
- 57.50 Enter dense undergrowth, bears N60°W and S60°E.

79.92 The cor[ner] of sec[ti]on[s] 26, 27, 34 and 35.
 This cor[ner] is 10 f[ee]t below 1/4 sec[ti]on cor[ner].
 Land, level and rolling.
 Soil, alluvial and rocky 1st and 3rd rate.
 Timber, heavy pine and fir, with dense undergrowth of the same
 and willow, alder, vine maple, chaparral, crab apple and
 serviceberry.

N0°1'W, bet[ween] Sec[ti]on[s] 26 and 27

Over nearly level land, through heavy timber and dense
 undergrowth.

5.89 A yellow pine 25 in[che]s dia[meter] on line. 1 mark with 2 notches
 on N and S sides.

16.52 A fir 46 in[che]s dia[meter] on line. 1 mark with 2 notches on N
 and S sides.

22.00 Trail to Frank Bush's ranch, bears N70°E and
 S70°W.

28.00 Enter thicket of small fir and pine, dead and down, b[ea]rs E and
 W.

33.50 Road from Nason Creek to Frank Bush's ranch, bears E and W.
 Leave thicket, bears E and W.

36.00 Enter open swamp, bears N and S.

40.00 Set a fir post
 A fir 34 in[che]s diam[eter] bears N50°E 100 l[in]ks dist[ant]

 A yellow pine 36 in[che]s diam[eter] bears N14 1/2°W 128
 l[in]ks dist[ant]
 This cor[ner] is 50 f[ee]t below sec[ti]on cor[ner].

40.15 Ditch, 2 f[ee]t wide, 18 in[che]s deep, 12 in[che]s water, course
 N15°E.

41.00 Leave swamp, bears N40°W.

42.80 Enter brushy swamp, bears E and W.

46.00 Leave swamp, bears E and W; enter windfall, E and W.

54.00 Leave windfall, bears N20°E and S20°W, and enter
 brushy swamp, bears N20°E and S20°W.

57.80 Leave swamp, bears E and W.

59.50 Enter river bottom, N25°E and S25°W.

63.11 **To right bank of Wenatchee river.**
 Set a granite stone
 A fir 25 in[che]s diam[eter] bears S67°E 150 l[in]ks dist[ant]

 A fir 27 in[che]s diam[eter] bears N85°W 207 l[in]ks
 dist[ant]

- To determine the distance across I set a flag on line on left bank
 . . . **distance across the river is 5.24 chains.**
- 68.35 **To left bank of Wenatchee river.**
 Set a granite stone
 A white fir 16 inches diameter bears N68°E 28 links
 distance
 A white fir 42 inches diameter bears N21 3/4°W 66 1/2
 links distance
- 71.00 A slough of 53 links wide bears E and W.
 74.00 Enter brushy swamp, S80°E and N80°W.
 75.20 Leave swamp, bears E and W.
 77.00 Enter creek 15 links wide, course S10°E.
 This creek is the outlet of Fish Lake.
- 78.25 Leave creek, begin ascent.
 80.00 Set a fir post
 A fir 10 inches diameter bears N31°E 51 links distance .

 A yellow pine 38 inches diameter bears S41 1/2°E 78
 links distance
 A fir 23 inches diameter bears S8°W 39 links distance .

 A fir 5 inches diameter bears N26°E 54 links distance . .

 This corner is 50 feet above the river.
 Land, level and rolling.
 Soil, alluvial and gravelly, 1st and 2nd rate.
 Timber, heavy pine, fir, cottonwood and cedar, with dense
 undergrowth of willow, alder, maple, vine maple, cottonwood and
 crabapple.

N0°2'W, between Section 27 and 28

- Over level bottom land, through dense undergrowth and
 scattering timber.
- 20.42 Nason Creek, 308 links wide, course W.
 A drift has formed at this point, turning the channel of the creek.
 The course of the old channel, now dry, is N40°E.
- 24.51 A white fir, 48 inches diameter on line. I mark with two notches
 on N and S sides.
- 32.00 A slough, 55 links wide, course N70°E.
 34.00 An alder, 9 inches diameter on line. I mark with two notches on
 N and S sides.
- 35.95 A slough, 45 links wide, course N25°E.
 36.77 **To right bank of Wenatchee river.**

- Set a granite stone
- A crabapple 6 in[che]s diam[eter] bears S61 °W 9 l[in]ks
dist[ant]
- An alder 8 in[che]s diam[eter] bears N77 °E 77 l[in]ks
dist[ant]
- To determine the dist[ance] across I set a flag on line on left bank
of river . . . I complete the dist[ance] across the river as follows . .
. 3.09 ch[ain]s + 36.77 makes.**
- 39.86 **To left bank of Wenatchee river.**
Set a granite stone
- A yellow pine 48 in[che]s diam[eter] bears N69 °W 224
l[in]ks dist[ant]
- A yellow pine 44 in[che]s diam[eter] bears N59 °E 405
l[in]ks dist[ant]
- 40.00 Set a granite stone
- A yellow pine 20 in[che]s diam[eter] bears N24 °W 220
l[in]ks dist[ant]
- A yellow pine 38 in[che]s diam[eter] bears N25 °E 364
l[in]ks dist[ant]
- Raised a mound of stone. N of cor[ner].
Thence over nearly level land, 15 f[ee]t above river, through heavy
timber and scattering undergrowth.
- 48.20 Old trail, bears NE and SW.
- 58.25 Old trail bears N75 °E and S75 ° W.
- 65.35 Old trail bears E and W.
- 76.55 Road from Leavenworth to Lake Wenatchee, bears S80 °W
and N80 °E.
- 80.00 Set a fir post
- A yellow pine 34 in[che]s diam[eter] bears N35 °E 76 1/2
l[in]ks dist[ant]
- A fir 21 in[che]s diam[eter] bears S62 3/4 °E 133 1/2 l[in]ks
dist[ant]
- A yellow pine 27 in[che]s diam[eter] bears S52 1/2 °W 62
l[in]ks dist[ant]
- A fir 14 in[che]s diam[eter] bears N87 3/4 °W 56 1/2 l[in]ks
dist[ant]
- Land, level and rolling.
Soil, alluvial first half mile; bal[ance] clay and sand. 1st and 2nd
rate.
Timber, heavy pine fir, cottonwood and cedar, with dense
undergrowth of willow, alder, chaparral, vine maple and
crabapple.

General Description

The surface of this township is varied there being almost every variety of land from level bottom land to very steep mountains. **The soil of the bottom land along the Wenatchee river is generally alluvial and capable of producing abundant crops without irrigation.**

Along the Chewawa river the bottoms are narrow and generally elevated above high water mark. The soil is not so alluvial as the Wenatchee bottom, being clay and sand with a great deal of stone and would require irrigation to make successful crops.

The bench land extending through the township between Lake Wenatchee, Fish Lake and down the Wenatchee river, can be nearly all classed as second rate, as can also the peat swamp in sections 19 and 20.

The soil of the mountainous lands can nearly all be classed as third rate.

All over the township wherever the undergrowth is not dense, the ground is covered with nutritious grasses, and where the land is not rocky nor too steep, would produce crops by irrigation.

The township is nearly all covered with a very dense undergrowth of brush.

In the bottoms and on the north slope of the mountains it amounts to almost a jungle. The bench land is not so brushy, there being places where there is little or no undergrowth, but covered with heavy timber. Almost all the township is covered with a heavy growth of timber; yellow pine and fir are found in every section; black pine abounds on the flats and on some of the north hill sides; white pine, spruce and hemlock, with some cedar are found on sections 3, 4, 5, 6, 7, 8, 9, 10 and 11. In section 31 in the southwestern portion of the township and on sections 1, 2, 3, 4, 5 and 6 in the northern part, and also in the northern portion of sections 7, 8, 9, 10, 11 and 12, there is a quantity of second growth timber which is very dense. The eastern boundary of the township north of the Chewawa river, ascends the foot hills of the Ential range of mountains. On the south boundary there is a high mountain spur which is a divide between the Wenatchee river and Nason creek.

After crossing Nason creek in going west the line ascends abruptly a mountain spur. The highest point on this spur is reached on the west boundary, 86 chains north of the southwest corner of the township, where it reaches an elevation of 1900 feet above Lake Wenatchee.

North of Lake Wenatchee and Fish Lake, there is another range which crosses the township from west to east, and is cut into by the Chewawa river. The greatest elevation on this range is 3000 feet above the lakes. Both ranges are higher to the west of the township.

The north boundary is on the foot hills of the last mentioned range on the north side. Between these ranges the remainder of the township is principally rolling bench land with abrupt ridges.

The township is well watered by the Wenatchee river in the southeastern part, the Chewawa in the northeastern part, Meadow creek in the northern part, Lake Wenatchee in the western part and Fish Lake in the central part, besides

many small springs and brooks.

The eastern end of Lake Wenatchee, comprising about one half thereof, is included in this township in sections 19, 20, 28, 29 and 30. This lake is about six miles long and its greatest width is about one mile. The water is clear and pure, and of various depths. In some places soundings have been made 300 feet deep without finding the bottom.

Fish Lake is entirely in the township, in sections 14, 15, 16, 21 and 22, and is about two miles long and averages about a half mile in width.

From the fact that it has practically no inlet or outlet, the water is not pure. It varies in depth from 10 feet to 250 feet. **The lakes and larger streams in the township teem with trout of different varieties, and salmon come up the Wenatchee river in great numbers in their season.**

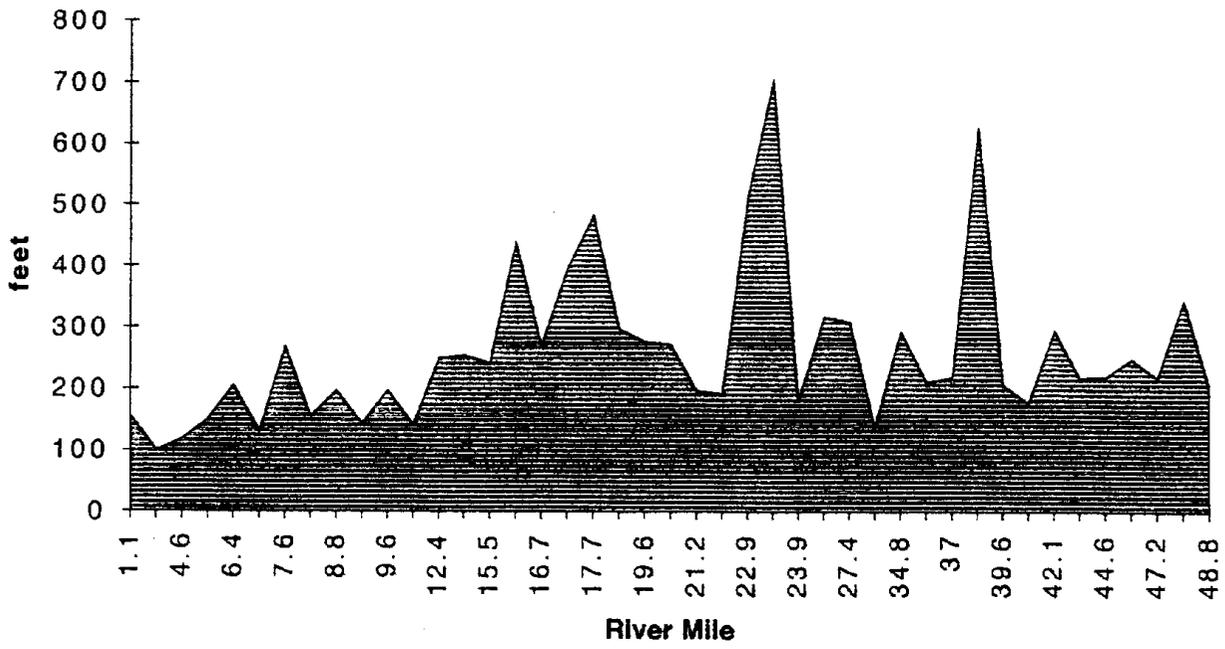
From the surface indications it is probable that large bodies of granite underlies a great portion of the township. Gold has been found on the Chewawa river along its entire length, but not in paying quantities.

Between sections 35 and 36 there is a place where for 10 chains south of the quarter-section corner there is local attraction, caused by iron ore. The climate in summer is warm and delightful, except for the hordes of mosquitoes which infect the valleys during the months of June, July and August.

Lake Wenatchee is a great summer resort. There is a small streamer on the lake which flies from point to point for the benefit of pleasure seekers. In winter the climate is cold with snow from seven to ten feet deep.

There is one settler in section 26; one in section 19; one in section 19 and 20; one in section 29 and one in sections 16 and 21 (Fenner 1897b).

Wenatchee River Width



wenatchee.num

Township	Sections	River Mile	Width (chains)	Width (feet)
				1 ch=66 ft.
T 23N, R 20E	28,29	1.1	2.36	156
	19,20	2.1	1.5	99
T 23N, R 19E	13,14	4.6	1.8	119
	14,11	5.6	2.3	152
	11,10	6.4	3.12	206
	10,3	7.2	2	132
	3,4	7.6	4.09	270
	N 4	8.6	2.36	156
	N 4	8.8	3	198
	4,5	9.1	2.17	143
	N 5	9.6	3	198
T 24N, R19E	31,32	10.1	2.14	141
T 24N, R18E	35,36	12.4	3.81	251
	26,35	13.3	3.86	255
	27,22	15.5	3.68	243
	22,21	16.5	6.67	440
	21,16	16.7	4.1	271
	21,16	17.2	6	396
	21,20	17.7	7.33	484
	20,17	17.8	4.52	298
	7,8	19.6	4.19	277
	6,7	20.5	4.14	273
T 24 N, R 17E	E 1	21.2	2.99	197
	1,12	21.5	2.94	194
	12,13	22.9	7.85	518
	13,14	23.4	10.7	706
	11,14	23.9	2.76	182
	10,11	24.8	4.81	317
T 25 N, R17E	S 33	27.4	4.71	311
	16,9	31.9	2.11	139
T 26N, R 17E	S 34	34.8	4.47	295
	35,34	35.9	3.21	212
	35,36	37	3.34	220
	36,25	38.2	9.51	628
	25,24	39.6	3.16	209
	24,13	41	2.71	179
	13,12	42.1	4.49	296
	12,1	43.3	3.32	219
T 27N, R 17E	S 36	44.6	3.35	221
	36,35	46.9	3.8	251
	35,26	47.2	3.33	220
	26,27	48.5	5.24	346
	27,22	48.8	3.09	204

CONCLUSIONS

Collectively the historical information confirms that several undertakings have had impacts on the Wenatchee River over the past century:

- ▲ Irrigation Projects

Since 1891 canals and ditches have tapped the tributary creeks as well as the main Wenatchee River to provide water to nourish truck gardens and fruit orchards. These projects have withdrawn water to irrigate thousands of acres and, while some of the water returns to the river, it has passed through agricultural uses, including applications of sprays, fertilizers, or exposure to livestock.

- ▲ Great Northern Railroad

In the 1890s the Great Northern Railroad built up the canyon of the Wenatchee River to Chilwaukum where it turned northwesterly toward the upper reaches of Nason Creek and the Cascade summit. The construction crews blasted out the roadbed, dropping massive debris into the Wenatchee River. In 1907-08 the Great Northern constructed a hydroelectric plant in the Tumwater Canyon.

- ▲ Logging and Sawmill Operation

Although there is no reference to splash dams or creation of artificial freshets, loggers used the Chewawa and the Wenatchee rivers to drive logs to sawmills, presumably at Leavenworth. There is no evidence that the logs remained for sustained periods in the river or that such drives altered the stream course or its banks.

- ▲ Hydroelectric Power Generation

For most of the last century the waters of the tributaries or the main Wenatchee have provide energy for the generation of electricity. These activities have probably produced surges in flows but have not diminished the volumes of water passing down this watershed.

The window to past conditions, described in the field notes of the cadastral surveyors, confirms that the Wenatchee was a crystal clear stream. Even at its confluence with the Columbia the surveyor noted that it was "a beautiful stream of clear cold water" (Holcomb 1884b). The Wenatchee and its tributaries teemed with trout and served as a major salmon fishery for Indians into the 1860s (Scheuerman 1992:25; Fenner 1897b). The banks of the Wenatchee were covered with a thick understory of shrubs, and in portions were shaded by "spruce, cottonwood, pine and maple" (Fitzhenry and Germond 1906b).

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