

MEMORANDUM

Rostenay Agency Repet No. 6. rtenant

Pepert No. 867.

Surveyor Made Lydd. Phillips and t of

pomicial engineer during hin the

Summer of 1920.

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ges, granted ses upon he adjudica-

tion of the Board of Investigation under the B.C. Water Act.

In compiling the lists a careful search was made of Provincial and Dominion Government records, also all available official publications, minutes of decisions of the various Indian Reserve Commissions and other documents bearing on the subject. In cases where the Indian records are dated subsequent to those of other water users on the same stream, details of such prior records are given to the extent of available information.

INTRODUCTION

The investigation of water rights appurtenant to Indian Reserves in the Province of British Columbia was undertaken by the Dominion Water Power Branch in September 1918, at the request of the Department of Indian Affairs.

All reserves directly affected lie within the "Dry Belt" and have been dealt with in the following order:-

Report No. 1 --- Lytton Indian Agency

- " No. 2 --- Kamloops "
- " No. 3 --- Okanagan "
- " No. 4 --- Kootenay "
- " No. 5 --- Williams Lake "

Recorded Rights

The reports included in this series contain lists of water records, allottments, or privileges, granted prior to 1909, for irrigation or domestic purposes upon the various reserves and which are subject to the adjudication of the Board of Investigation under the B.C. Water Act.

In compiling the lists a careful search was made of Provincial and Dominion Government records, also all available official publications, minutes of decisions of the various Indian Reserve Commissions and other documents bearing on the subject. In cases where the Indian records are dated subsequent to those of other water users on the same stream, details of such prior records are given to the extent of available information.

Field Reports

Under the headings of "Areas", "Water Supply"
"Works", etc., information obtained on the ground, either
by survey or inspection, concerning the extent of irrigable areas, utilization of water, condition of works,
suggested improvements for water supply systems, etc., is
briefly given.

For the information of the Board of Investigation and as a basis on which the domestic requirements may be determined, the population and number of stock on each reserve is quoted from the 1916 report of the Indian reserve Commission.

Summaries

Appended to each report is a summary of recorded rights and estimated water requirements for each reserve. By referring to this part of the report the salient points may be observed at a glance.

ment with the amount of water recorded, the quantities recorded in miners inchas have been converted to the equivalent in acre feet over a period of 120 days. For example:-Report No. 3, Okanagan Agency -- Page 30. Okanagan Indian Reserve No. 1, Source ----- "Siwash Creek"

Amount recorded is 100 miners inches --- 666 acre feet in 120 days. Total area irrigable from recorded source (Provided sufficient water is available.) is 494.1 acres.

Accepting the duty of water at 3 acre feet per season for each acre of irrigable land the requirements are shown to be roughly 1485 acre feet as against 666 acre feet recorded.

In other words the amount recorded would provide 1.35 acre feet per acre of irrigable land, in a season of 120 days.

It will thus be readily observed under the column headed "Amount recorded in acre feet per acre or irrigable land" whether the amount recorded exceeds the requirements of the land, or otherwise as the case may be.

Plans

The plans which form a part of each report have been prepared from surveys made by engineers of the Deminion Water Power Branch and Provincial Water Rights Branch either separately or jointly. In a few cases where earlier surveys (prior to 1918) by the Provincial Government show that the requirements of the land would warrant the confirmation of appurtenant records, such information has been incorporated without further survey.

The plans show irrigated areas "cross-hatched" and irrigable areas "single-hatched" also location of streams, points of diversion, ditches, etc., and wherever possible the general topography is indicated.

The work of investigation has been carried on in close co-operation with the Provincial Water Rights Branch and information respecting Water Rights and surveys has been exchanged to the mutual benefit of both governments.

KOOTENAY AGENCY

Water Rights and Field Report

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PLANS

Reserve					
KOOTEI	<u>IAY</u>				
No.	1	St. Mary's	1		
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SHUSWA	P,	KINBASKETS BAND			
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Reserve

Kootenay No.1 -- St.MARY'S (Area 17,425 acres)

Recorded

Prov. W.R.No.54, Sept.23,1896, 400 ins. from St.Marys River.
Prov. W.R.No.53, Sept.23,1896, 100 ins.from Cherry or

Prior Records
of Other Users

St. Mary's River --- None Cherry Creek -- May 5, 1884 -- Lot 710 -- 383 ac.ft.-C.L.2078 (10 subsequent records up to July 24,1911)

Areas

Irrigated ----- None (see note under "Works) Irrigable ----- 4570 acres

Works

Ditch from St. Mary's River. Intake destroyed by high water 1919 (see photos) and ditch of no further use until repaired at very heavy expense.

Water Supply

Irrigation -- St. Mary's River and Cherry Creek Domestic --- St. Mary's River and Cherry Creek, springs and sloughs.

Agricultural Improvements

91 houses, 62 barns, fences, cultivation, etc.

Remarks

As shown on accompanying plan, this reserve consists of a high bench bounded on east along Kootenay River, and south along St. Mary's River by a belt of bottom land. Most of this lower land requires irrigation and was supplied partially by a ditch from St. Mary's River until its destruction by high water in 1919. Cultivation is now being carried on without irrigation, and except for those parts near the junction of the two rivers, where some benefit is derived from sub-irrigation, there is small return for the labour involved. Portions of this sub-irrigated area now covered with light growth of poplar and willow should be cleared and cultivated, which would add very materially to the present scanty supply of winter feed.

In addition to the clearing of more bottom land bordering on the Kootenay River, the acute situation as regards winter feed might be relieved by four possible irrigation projects, all of which would be expensive and would require further investigation and surveys before construction is contemplated.

1. Restoration of Old Ditch from St. Mary's River

This would require such expensive head-works, the permanency of which would be problematical on account of the large volume, high velocity and nature of the banks of the St. Mary's River that it would be advisable to examine other projects carefully before proceeding with this.

2. On the upper bench, a branch ditch from the Peter Boyle ditch from Cherry Creek, approximate location shown on plan, would serve to relieve Francois' dry farm of 130 acres and probably other land adjacent to it which might be worth irrigating once the water was there. This ditch would involve the enlarging of Peter Boyle ditch in addition to its own length of about $1\frac{1}{2}$ miles.

Creek is a ditch 5 miles long with intake above the Lumber Railway's trestle above the Falls. This was an idea of Mr. Peter Woods, a large cattle rancher on Cherry Creek, who kindly accompanied us while we took leyels along the route he had projected. This ditch would serve an area, outlined approximately on accompanying plan, of about 1600 acres including the Francois dry cultivation. The soil while light would be productive with a good supply of water, but before this project could be considered economically sound, further investigation and surveys would be required of both the cost of the ditch and the estimated returns of the land.

4. The low-lying land along St. Mary's River above the Mission Bridge, as well as that previously served by the old ditch, being under an elevation of 50 feet above normal level of the river during irrigation season, suggests an economical hydro-electrical pumping proposition. It is possible that a small plant installed on Joseph Creek, which empties into St. Mary's River from the South at the Indian School, would be worth investigation with a view to supplying light, water and power for the school, and pumping water for irrigation on the reserve just across the river. The irrigation season being also the high water period, makes pumping by electricity for low heads very economical, where power is available without too heavy initial expense.

Some relief is urgently needed on this reserve for the irrigation situation and whatever project is found to be the most economical upon further investigation, the cost of construction of any of them would more than be compensated for by the Indians cutting the valuable pine timber which is now matured on this reserve.

Population:

200

Stock:

Horses

460 Cattle 460

Plan

No. 1

Photos

Nos. 24,25 & 26.

670.

Reserve

Koctenay No. 2 -- Tobacco Plains (Area 10,557.03 acs)

Recorded Rights

I.R.C. Allott, July 18, 1884 -- All water flowing through this reserve is allotted to the use of the Indians.

Prov. W.R. No.55, Sept. 23, 1896 -- 200 ins. from Wilkie Phillips creek

Prov. W.R. No.49, Sept.23, 1896 -- 200 ins. from Reserve Cr. Prov. W.R. No.49, Sept.23, 1896 -- 100 ins. from Semo Cr. Prov. W.R. No.70, Oct. 9, 1900 -- 100 ins. from Phillips "Prov. W.R. No.69, Oct. 9, 1900 -- 6 ins. from spring

Prior Records of Other Users

Willie Phillips Creek ---- None Reserve Creek ----- None Semo Creek ----- None

Phillips Creek -- Aug. 29, 1893 -- Lots 289 & 487 -- 455 ac.ft. C.L. 372. (6 subsequent records up to 1907)

(6 subsequent records up to 1907)
Springs (Gordon) -- Oct.12, 1899 -- Lot 289,30 ac.ft.F.L.
3131.
Dec. 2, 1899 -- Lot 289,207 " C.L.

(NCTE: Prior records of other users as listed are prior to Prov. Records appurtenant to this reserve, but are subsequent to the I.R.C. Allottment of July 18, 1884.)

Areas

Irrigated ----- 230 acres Additional Irrigable --- 758 acres

Total Irrigable ----- 988 acres

Water Supply

Obtained from Willie Phillips Creek, Semo Creek, Reserve Creek, Phillips Creek and Springs and used for irrigation and domestic purposes.

Works

Ditches excavated or built up with logs and earth, the latter from Willie Phillips Creek, built at considerable expense some years ago are in need of repair.

Agricultural Improvements

29 dwellings, 33 outbuildings, fences, corrals, etc. of a better type than the ordinary.

Reclamation

About 280 acres included in irrigable area will require to be cleared.

Remarks

This reserve is well conditioned for cattle raising, including sufficient good land to provide winter feed for many more head of stock than is now kept, owing to lack of irrigation facilities. The irrigation improvements to be considered are a long flume from Willie Phillips Creek to the high ground at west side of reserve shown on plan, along which a ditch running south would irrigate all irrigable land not irrigable from Reserve or Semo Creeks. The large block of irrigable land shown at south end is heavily timbered with Fir and Pine and would if logged off by the Indians themselves, be profitable to them in wages and additional agricultural land, and would liquidate any capital investment necessary for the improvements to irrigation system, as well as salvaging the valuable matured timber now in yearly

150

Remarks (Continued)

danger of destruction by fire.

The records on Semo and Reserve Creeks can be fully utilized by additional clearing of land at East side of reserve shown on plan, to be served by these streams. Semo Creek is a small stream about 500 feet north of Reserve Creek, comes out in a gushing stream from the side-hill about 1000 feet east of public road and disappears in ground about the same distance west of road on reserve land.

The present ditch from Phillips Creek serving Chief Paul's land has its intake much too low to be of any great benefit. Two ditches from this creek, one on each side of the land, would irrigate all of Chief Paul's land along with the water now obtained from his spring on mountain side, back of his house, shown on plan.

The proposed irrigation works would serve to make really productive land of several acres of dry farming shown on plan and might induce some of the Indians who have expended much labour in dry cultivation on isolated high benches impossible to irrigate, to direct their efforts more profitably on more productive lower land, once it is cleared and facilities provided for irrigation.

The plan shows the south boundary of land which it would be economical to consider for irrigation for the immediate future. The remainder would be used for summer range for many more head of cattle and with the evident disposition of this land of Indians to make good use of their land there is every reason to expect they would do proportionately better with the improved facilities recommended.

Population

55

Stoak

Horses 150 Cattle 140

Plan

No. 2.

Photos

Nos. 14, 15 & 16.

KOOTENAY AGENCY.

			·			
Reserve	Area	Irrigat.	Irrigable Acres		Estimated Wa- e ter Require-	
TAISCELLE A.C.	71,54	20202			ments, Ac. Ft.	Irrigable land i: 120 days
KOOTENAY.					en e	
No.1,St.Mary's	17,425		2940	2940	@ 38820	0.91
			1630	1630	@ 34890	0.41
No.2.Tobacco Plains	10,557					
	en edelenis e disi					9 54
		177.5	757.9	935.4	@∋ 3 2806	3.56
Andrew Control of the					· · · · · · · · · · · · · · · · · · ·	
		53	#=#	53	@.3159	13.3
and the second		· 			· :	
No.3,Columbia Lake	8,359.8	****				
	, 15 1	100	171	201	@ 22677	2.46
· .	A ·	45	228	273	@ 22682	4.88
i (sián a L	v.	33	327	360	@ 2 1 900	3.7
1		149	379	528	@ 2 2 1320	2.53
		25	257	282	@ 2 2 705_	2.36
		50	-	50	© 2 1 125	3.34
No.4 Isidore's	680		600	600	@ 31800	3.33
No.5,Cassimayool	ks 160		No recor	ded Rigi	nts	,
No.6 Bummers Fl	at 190		No Recor	rded Rigi	nts	
LOWER KOOTENAY						
No.1,Creston	1831.5	!	9.9	9.9	@ 2 }_ -25	2.5
Shuswap No.1	2683.9	74 j. se es.				
						0
		514 /	651	1165	@.33495	0.57
	. '					.
		256	239	495	@ 31485	1.34
		-				
NAMES AND ASSOCIATION OF STREET	<u></u>	<u> </u>		[

Equival ac.ft ac.ft 120 day 2666 ter ter 0 1333 0 666	St.Mary's R. Cherry Ck. Acam Spring Flowing Thro'reserve	Date Sept.23,1896 Sept.23,1896 May 17,1920 Jly. 18,1884	Remarks Stream Flow Data Prov. W. R. No. 54/568 c. f. s. Oct 1913 " " No. 53/19 c. f. s. Lowest (about) Riparian Claim
ners ac.ft ches 120 day 2666 666 ter ter 1333	St.Mary's R. Cherry Ck. Acam Spring Flowing Thro'reserve	Sept.23,1896 Sept.23,1896 May 17,1920	Stream Flow Data Prov.W.R.No.54/568 c.f.s.Oct 1913 " No.53/19 c.f.s.Low est (about)
0 666 ter ter 0 1333	Cherry Ck. Acam Spring Flowing Thro' reserve	Sept.23,1896 May 17,1920	Prov.W.R.No.54/568 c.f.s.Oct 1913 " No.53/19 c.f.s.Low- est (about)
0 666 ter ter 0 1333	Cherry Ck. Acam Spring Flowing Thro' reserve	Sept.23,1896 May 17,1920	" " No.53/19 c.f.s.Lowest (about)
ter ter 0 1333	Acam Spring Flowing Thro' reserve	May 17,1920	est (about)
ter 0 1333	Flowing Thro		Riparian Claim
0 1333	reserve	Jly. 18,1884	and the second s
	 · · ·	i " 1	I.R.C.Allotment.
0 666	Willie Phillips Ck.	Sept.23,1896	Prov.W.R.No.55/194 e.#+###################################
	Semo Creek	Sept.23,1896	" " No.49/ Unknown
0 1333	Reserve Creek	Sept.23,1896	" No.49/4.8 c.f.s.bep.
0 666	Phillips "	Oct. 9,1900	" " No.70/24.62 c.f.s. Mean of 4 measure- ments Aug. to Nov.
6 40	Springs	Oct. 9,1900	1912. " " No.69/0.25830 c.f.s. Sept.1912.
ter	Thro: reserve	Aug. 9,1884	I.R.C.allotment
0 666	Windermer Ck.	Sept.23,1896	Prov.W.R.No.52/
0 1333	Sophy Creek	Sept.23,1896	" " No.48/
00 1333	Sam's Creek	Sept.23,1896	" No.48/
00 1333	Tatley Creek	Sept.23,1896	" " No.48/
666	Lytle Creek	May 14,1920	Application -(C.L.5189 for (50 ac.ft.issued
5 167	Albin Spring	May 14,1920	Riparian Claim (June 4,1920)
00 1999	Cassimayook	Feb. 14,1889	Prov.W.R.No.11
Ì			
25	China Cup Ck.	June 26,1919	C.L.5034
water	Shuswap Ck.	Aug. 14,1884	I.R.C.Allotment
90 6 6 6	Aylmer Creek	Aug. 14,1884	" (Aylmer & Stoddard - same stream)
00 666	Shuswap Ck.	Sept.23,1896	1
00 666	Stoddart Ck.	Sept.23,1896	Prov. W.R.No. 51/3.6 c.f.s. mean of three measure- ments.
(vater 00 666 00 666	Shuswap Ck. Shuswap Ck. Aylmer Creek Shuswap Ck. Shuswap Ck. Shuswap Ck.	Shuswap Ck. Aug. 14,1884 Aug. 14,1884 Aug. 14,1884 Shuswap Ck. Sept.23,1896

Reserve

Kootenay No. 3 -- LOWER COLUMBIA LAKE (Area 8,359,81 acs)

Recorded Rights I.R.C. Allott, Aug. 9, 1884 -- "All water flowing through this reservation is assigned to the use of the Indians"

Prov. W.R.No. 52, Sept. 23, 1896 -- 100 ins. from Windermere Cr. Prov. W.R.No. 48, Sept. 23, 1896 -- 200 ins. from Sophy Creek Prov. W.R.No. 48, Sept. 23, 1896 -- 200 ins. from Sam's Creek Prov. W.R.No. 48, Sept. 23, 1896 -- 200 ins. from Tatley Creek C.L. 5189, June 4, 1920 -- 50 ac. ft. from Lytle Creek Riparian Claum May 14, 1920, for 25 ins. from Athan (or Albin) Springs

Prior records of Other users

Windermere Creek

D.	<u>ate</u> .	Land		Quantity	ditions cence	ıl -
Sept.		Lot 19 Lot 8 Lot 108	96	60 ac. ft. 66 ac. ft. 60 ac. ft.	533 1995 1321	
	(E.R.C.	Allottment	t Aug.	9, 1884)		
Sept. Meh.	12,1890 4,1895	Lot 1093 Lot 218 Lot 2561 Lot 775 Lot 20	26 32 10	0 ac. ft. 4 ac. ft. 0 ac. ft. 6 ac. ft. 8 ac. ft.	1322 1325 13 25 1324 568	

(14 subsequent records)

	 None
S	可能 火焰
Sam's Creek	 None
Tatley	 None

Areas

Irrigated ----- 402 acres Additional Irrigable ---- 1362 acres

Total Irrigable ----- 1764 acres

Water Supply

Irrigation ---- Taken from creeks above mentioned Domestic ----- Taken from sources above mentioned for 83 persons, 250 head of cattle and 246 horses

Works

Flumes and ditches from Windermere Creek; ditch from Sophy Creek; flume and ditches from Sam's Creek; ditches from Tatley Creek; flumes and ditches from Lytle Creek and ditches from Albin Spring. (The flume intake on Windermere Creek is in urgent need of repair) See photos.

Agricultural 21 dwellings, 37 outbuildings, fences, cultivation, etc. Improvements

Remarks

The cultivation on this reserve generally is very well done, the Indians showing a disposition to farm their holdings with a view to raising cereal crops where possible. Where irrigation is not now available some good pieces of land have been cleared and cultivated and are shown on plan as "Dry Farm" Storage works would seem advisable on nearly all the creeks, and further surveys to investigate these possibilities will be necessary.

Plan

No. 3.

Photos

Nos. 2 to 9.

Reserve Kootenay No. 4 -- ISIDORE'S RANCH (Area 680 acres)

Recorded Rights Prov. W.R. No.11, Feb.14, 1889 -- 300 ins. to be taken from the Spring or Creek that crosses the old Boundary Commission trail on the west side of the Kootenay River, ten miles south of Galbraiths Ferry (Cassimayooks Creek)

Prior Records of Other Users None

Areas

Irrigated ----- None Total Irrigable ----- 600 acres

(200 acres could be irrigated from Cassimayooks Creek, without storage -- Hick's report Oct. 20, 1912.)

Water Supply

Irrigation ----- None Domestic ----- Kootenay River

Agricultural Improvements

Houses, barns, etc.

Remarks

This reserve shows good results from cultivation without irrigation, though improved cultivation would result from restoring and utilizing old ditch, shown on plan, from Cassimayooks Creek

Plan

No. 4.

Kootenay No. 5 -- Cassimayooks Reserve

(Area 160 acs)

Cultivated

45 acres

Works

Drainage ditch

Water Supply

Domestic ----- From Swamp Creek

Agricultural Improvements

House, barn, corral, fences, cultivation, etc.

Remarks

This reserve is the farm of Indian Alex. Miuke and his family. Plan shows that it is mostly in swamp, also the works necessary to drain same. It has valuable pine timber which would well repay the expense of cutting, as well as the small cost of the proposed drainers works if arrangements were expense of cutting, as well as the small cost of the proposed drainage works, if arrangements were made with a neighbour, Mr. Arnold, to allow drainage water to run into a basin on hisland, affording a storage reservoir for his present irrigation ditch. The intake of this ditch is now at this basin (see plan) and obtains its water supply from Miuke's springs. Further survey for small dam and ditch would be necessary.

Plan

No. 5.

Reserve Kootenay No. 6 ---- BUMNERS' FLAT (Area 190 acres)

Remarks

Used as community hay meadow. Entirely flooded at high water. Benefit would be derived by a little work each year digging or cleaning out drainage ditches to permit flood-water, left in pools after freshet has subsided, to be drained off earlier, thus permitting longer hay growing season.

Plan No. 6.

Photos Nos. 19 & 20.

Reserve

Lower Kootenay No. 1 -- CRESTON (Area 1831.5 acres)

Recorded Rights C.L. 5034, June 26,1919, 25 ac.ft. from China Cup Creek

Remarks

The most of this reserve is flooded by Kootenay Lake at high water, and the bench used by Indians and on which the village is built has no irrigation. The climate here is such that there is no great need for irrigation, though in dry seasons it would be a benefit. There are 229 horses, 375 cattle, 23 dwellings and 31 outbuildings. In 1918 the following crops raised: - 4 acres of oats, 15 acres potatoes, 2 acres roots, 145 tons of hay cultivated in addition to slough hay cut on flooded area after freshet. The population is 156, rather large for the small area at their disposal apart from the flood flats.

Plan

No. 7.

Photos

Nos. 21 & 22.

Shuswap, Kinbasket's Band -- SHUSWAP (Area 2683.91 ac) Reserve

Recorded Rights

I.R.C. Allott, Aug.14, 1884 -- "The water of Shuswap Creek (which flows through this reserve) and 100 inches of water from Aylmer Creek are allotted for use on this reserve".

Prov. W.R. No. 50, Sept. 23, 1896 -- 100 ins. out of

Shuswap Creek.

Prov. W.R. No. 51, Sept. 23, 1896 -- 100 ins. out of Stoddart Creek.

Records of Other Users

Shuswap Creek

Date	Land	Quantity	Conditional Licence
Sept.12, 1890 May 6, 1892 Aug. 29, 1893 Jan. 31, 1896 June 25, 1896 July 10, 1896 Aug. 5, 1896	Lot 9561 Lot 493 Lot 9562 Lot 5343 Lot 2846 Lot 9000 Lot 4347	657 ac.ft. 458 " 320 " 300 " 258 ac.ft. 374 "	532 2339 2340 2343 2341

(4 records subsequent to Indian Records)

Stoddart Creek

June 20, 1890 Apr. 27, 1896 Lot 288 50 ins. 200 ac.ft. Lot 5353 2338

(3 records subsequent to Indian Records)

Areas

Irrigated ----- 770 acres Additional Irrigable ---- 890 acres

Total Irrigable -----1660 acres

Water Supply

Irrigation --- Shuswap Creek and Stoddart Creek Domestic ---- From irrigation ditches for 68 persons 345 cattle and 150 horses

Works

An unnecessary number of intakes and ditches from Shuswap Creek in fair condition. Ditches and flumes from Stoddart Creek.

Agricultural Improvements 28 dwellings, 26 barns, fences, etc. and cultivation.

Remarks

Soil is light with gravel sub-soil and not considered good land, though would be more productive with better irrigation facilities. The best land is being well cultivated, producing oats, hay and vegetables. A more economical system of ditches and flumes from Shuswap Creek should be installed, there being insufficient water to irrigate all the land now under cultivation throughout irrigation season, resulting in burning up some of crops towards end of season.

Plan

No. 8.

Photo

No. 13.