

WATERPOWER OF THE UNITED STATES

State <u>Alaska</u>	Stream <u>Copper River</u>	Site <u>Wood Canyon</u>
County _____		Owner _____
Mer. <u>UTM 4-6</u> T. <u>55</u> R. <u>5E</u> Sec. <u>23?</u>		Constructed _____
Lat. <u>61</u> ° <u>26</u> ' " Long. <u>144</u> ° <u>27</u> ' "		Storage <u>12,800,000</u> of <u>15,788,672,000</u> m ³
Miles above mouth _____		Installed capacity _____ mw
Drainage Area <u>21,000</u> sq.mi. <u>54,390</u> sq. km		Installable capacity _____ mw

FLOW			ELEVATIONS				HEAD		THEORETICAL POWER mw-100% Eff.	ESTIMATED AVERAGE ANNUAL GENERATION mwh
Percent duration	cfs	m ³ /sec	Forebay		Tailrace		Gross			
			ft.	m	ft.	m	ft.	m		
95	2700	76.5	1250	381.0	425	129.5	825	251.5	189.34	
50	12000	339.8							2,725.05	
mean	38860	1,100.4							841.50	19,075,399

Remarks:

Total storage 63,300,000 acre-feet

Valdez B-2

1968 Alaska Power Administration No. 54

Maximum forebay elevation probably will not be much over 1000 a.g.

Prepared by GCG Date _____

See FPP 213B

WATERPOWER OF THE UNITED STATES

State **Alaska** Stream **Copper River** Site **Wood Canyon** 2592

County _____ Mer. _____ T. _____ R. _____ Sec. _____ Lat. 61 ° 26 ' " Long. 144 ° 27 ' " Miles above mouth _____ Drainage Area 21,000 sq. mi. 54,390 sq. km	Owner _____ Constructed _____ Storage 12,800,000 of 15,788,672,000 m ³ Installed capacity _____ mw Installable capacity _____ mw
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FLOW			ELEVATIONS				HEAD		THEORETICAL POWER mw-100% Eff.	ESTIMATED AVERAGE ANNUAL GENERATION mwh
Percent duration	cfs	m ³ /sec	Forebay		Tailrace		Gross			
			ft.	m	ft.	m	ft.	m		
95	2700	76.5	1250	381.0	425	129.5	825	251.5	189,357	
50	12000	339.8							841,500	
mean	38860	1,100.4							2,725,057	19,075,399

Remarks: **Total storage 63,300,000 acre-ft.** *Maximum forebay elevation probably will not be much over 1000 a.g.*

Valdez B-2

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WATERPOWER OF THE UNITED STATES

State Alaska Stream Copper River Site Wood Canyon 2592

County _____				Owner _____			
Mer. _____ T. _____ R. _____		Sec. _____		Constructed <u>15,788,672,000</u>			
Lat. <u>61° 26'</u> " Long. <u>144° 27'</u> "				Storage <u>9200,600</u> ac. ft. 11,348,708,000 m ³			
Miles above mouth _____				Installed capacity <u>12,500,000</u> mw			
Drainage Area <u>21,000</u> sq. mi. <u>54,390.00</u> sq. km				Installable capacity _____ mw			

FLOW			ELEVATIONS				HEAD		THEORETICAL POWER mw-100% Eff.	ESTIMATED AVERAGE ANNUAL GENERATION mwh
Percent duration	cfs	m ³ /sec	Forebay		Tailrace		Gross			
			ft.	m	ft.	m	ft.	m		
95	2700	76.5	1000	304.8	425	129.5	575	175.3	131,962	1,100,000
50	12000	339.8	1250				875		586,500	5,000,000
mean	38860	1,100.4							1,899,282	2,725,060

Remarks:
Total storage 63,300,000 ac-ft
Maximum forebay elevation probably will not be much over 1000 a.g.

189.34
841.50
2725.06

See "A Water Power Reconnaissance in So Central Alaska" USGS WSP 372 pg 41 & 67, 1915

See "Alaska, A Reconnaissance Report...." Bur of Rec, 1949, pg 160

See "Interim Report No 3, Copper River & Gulf Coast" USCE, 1950, Pgs 113-116, 119-120, 122.

"The Biennial Report of the Alaskan Resource Development Board 1955-1957"

"Mineral & Water Resources of Alaska" USGS # State of Alaska, 1964, pg 172

"Water Resources Development by the Corps of Engineers" USACE, 1965, pg 34-35

"Alaska Natural Resources and the Rampart Project" Dept of Interior, 1967, Table

"Planning Status Report -- Water Resource Appraisals for Hydro electric Licensing" FPC, 1967

APA Admins list of 252 sites, 1977

Welding B-2