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BULKLEY COAL

April 1987

The Bulkley coal showings are located 320 km. from the Port of Prince Rupert, straddling the Bulkley River and transected by the Canadian National Railway and Highway 16. The coal is a medium volatile bituminous with good coking and thermal properties. It is a type that could readily lend itself to blendings to upgrade other coals.

The coal showings are developed in a Tertiary down-faulted sedimentary basin similar in style to the Hat Creek, Princeton and Bowron River deposits of B.C. The coal bearing strata within the basin presently occupy an area of 15 sq. km and is covered by the license area. The strata are moderately deformed into an open, east-west trending syncline, with gentle (0 to 30 degree) dips in the north and 10 to 40 degrees in the south.

The coal-bearing unit comprises an interfingering of low energy fluvial sandstones with coal-bearing carbonaceous claystone units of bog origin. Coal seams noted are to 1.6 m. in thickness from limited outcrop and to 1 m. thickness in drill core. Claystone units are to 8 m. in thickness. Possibilities for thicker seams within the basin are good as coal is correlative with the development of the claystone members.

The northern part of the basin was tested by two diamond drill holes in January 1987. The first hole intersected coal at the immediate interface of overburden and rock, and from there was below the coal-bearing stratigraphy. The second hole, collared up-section from the first intersected 400 ft. of coal-bearing formation, including five coal zones, with seams of 0.8, 0.9 and 1 m. Dips in core are 0 to 30 degrees. The rock in core was very competent, with little evidence of extensive faulting.

A 6 to 10 hole drill program is planned to test the whole of the basin for its potential. Holes are to be drilled to 500 ft. depth. Both north and south sides of the synclinal structure is to be tested.

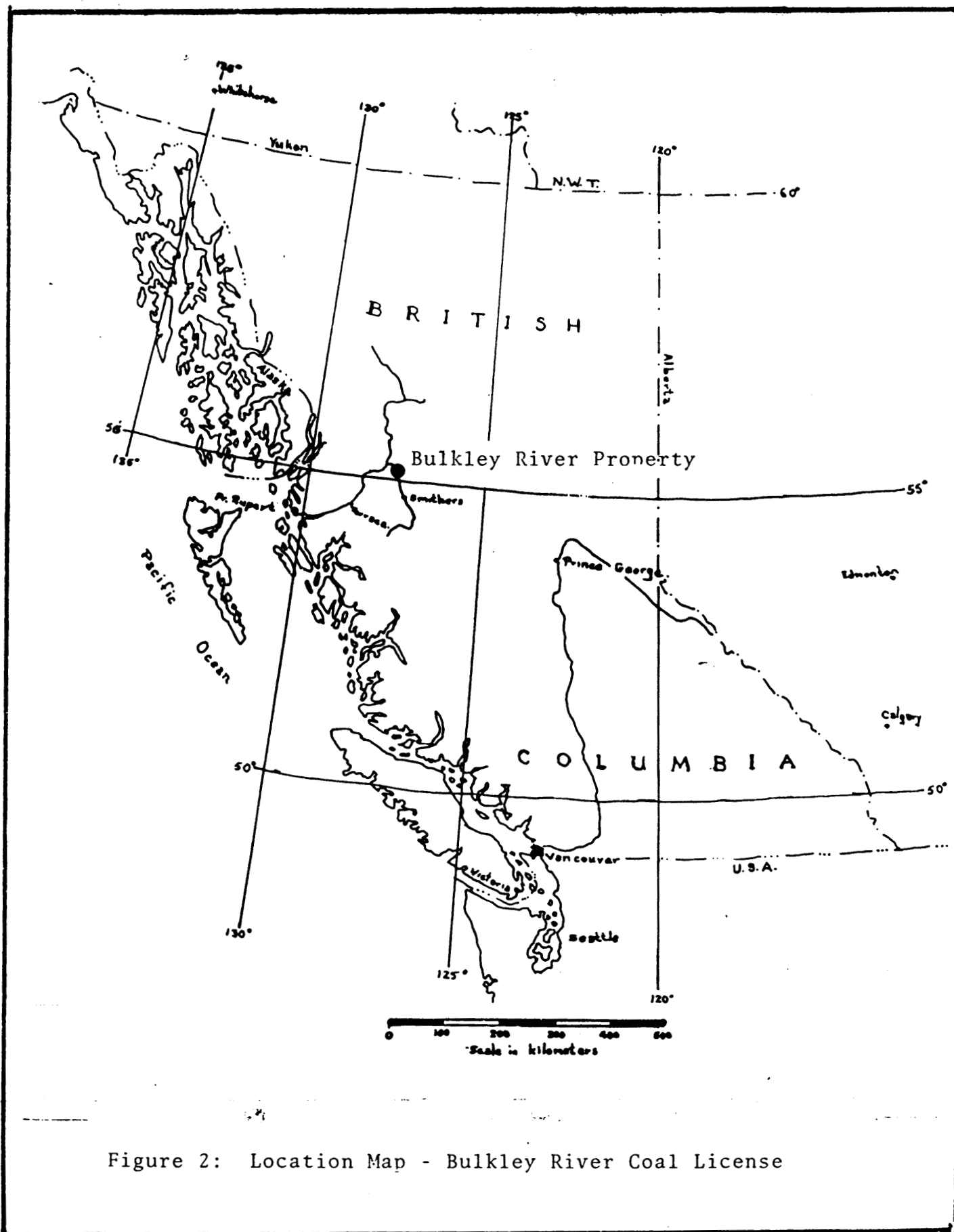


FIGURE 2: Coal Prospects and Occurrences within and adjacent the Bowser Basin, west-central British Columbia

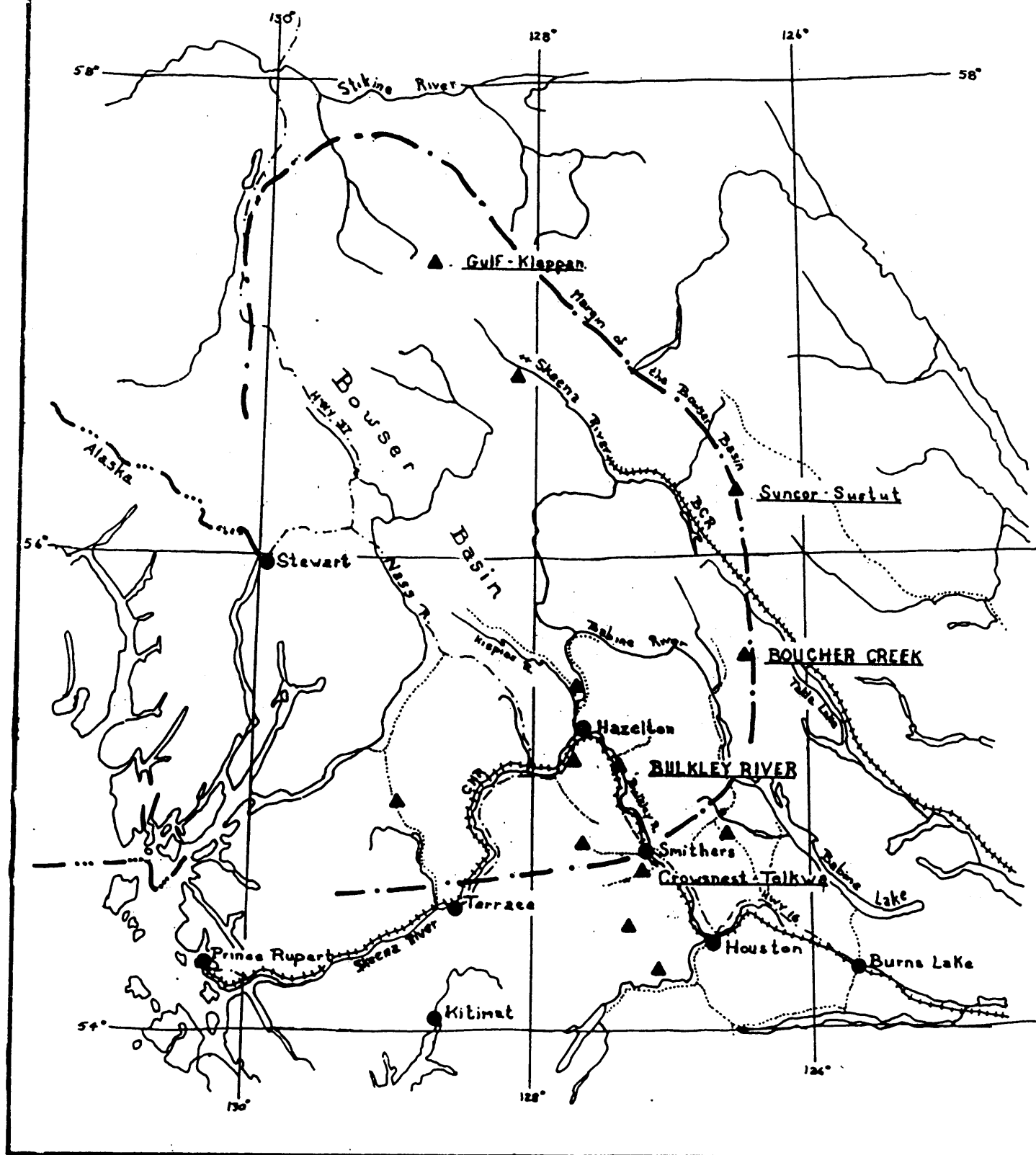
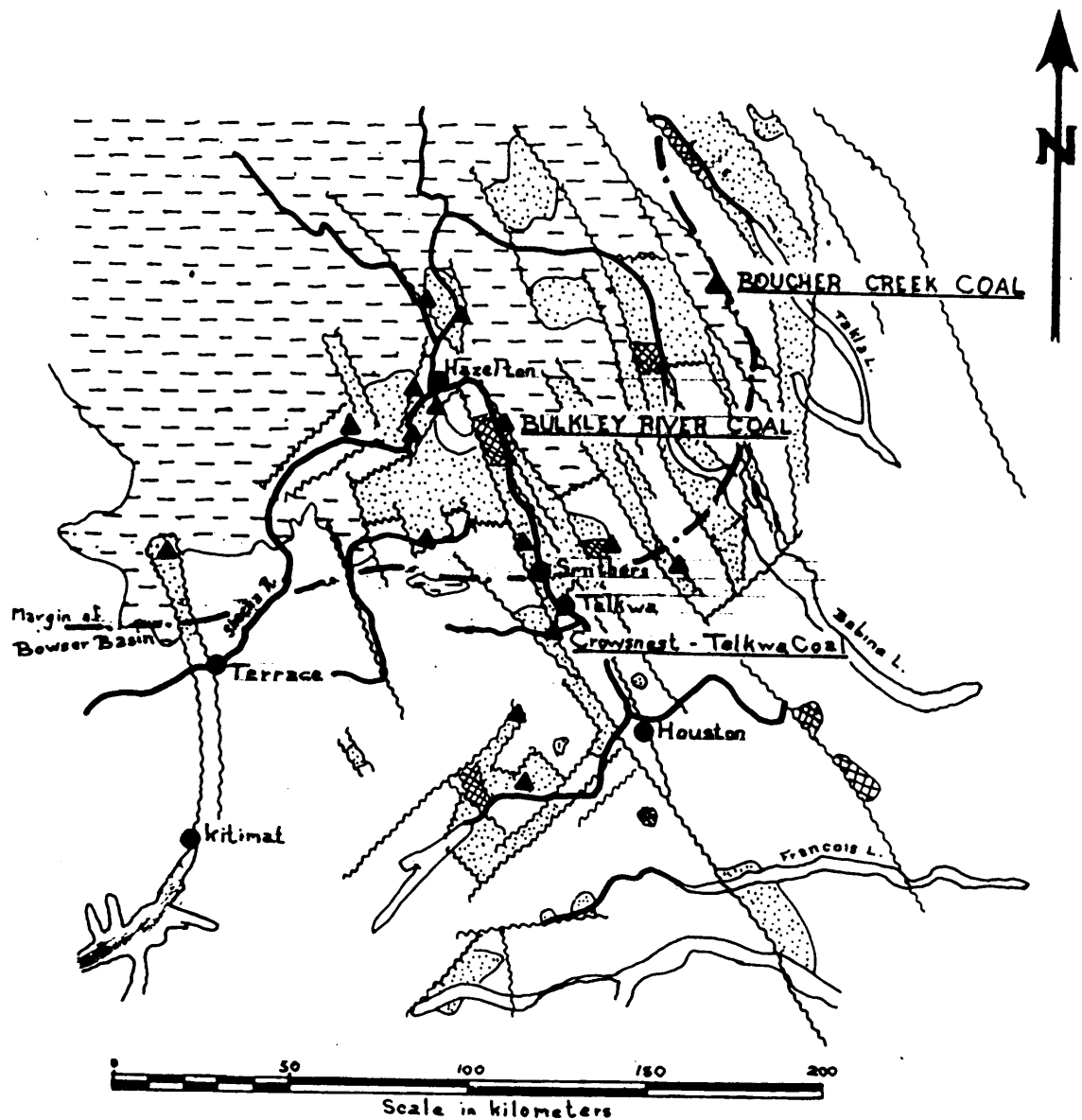


FIGURE 3: Stratigraphic Relationships of Coal Occurrences along the Southern Margin of the Bowser Basin, West-central British Columbia, Smithers (93L), Hazelton (93M), Terrace (103I), and Nass River (103P) Map Sheets



LEGEND




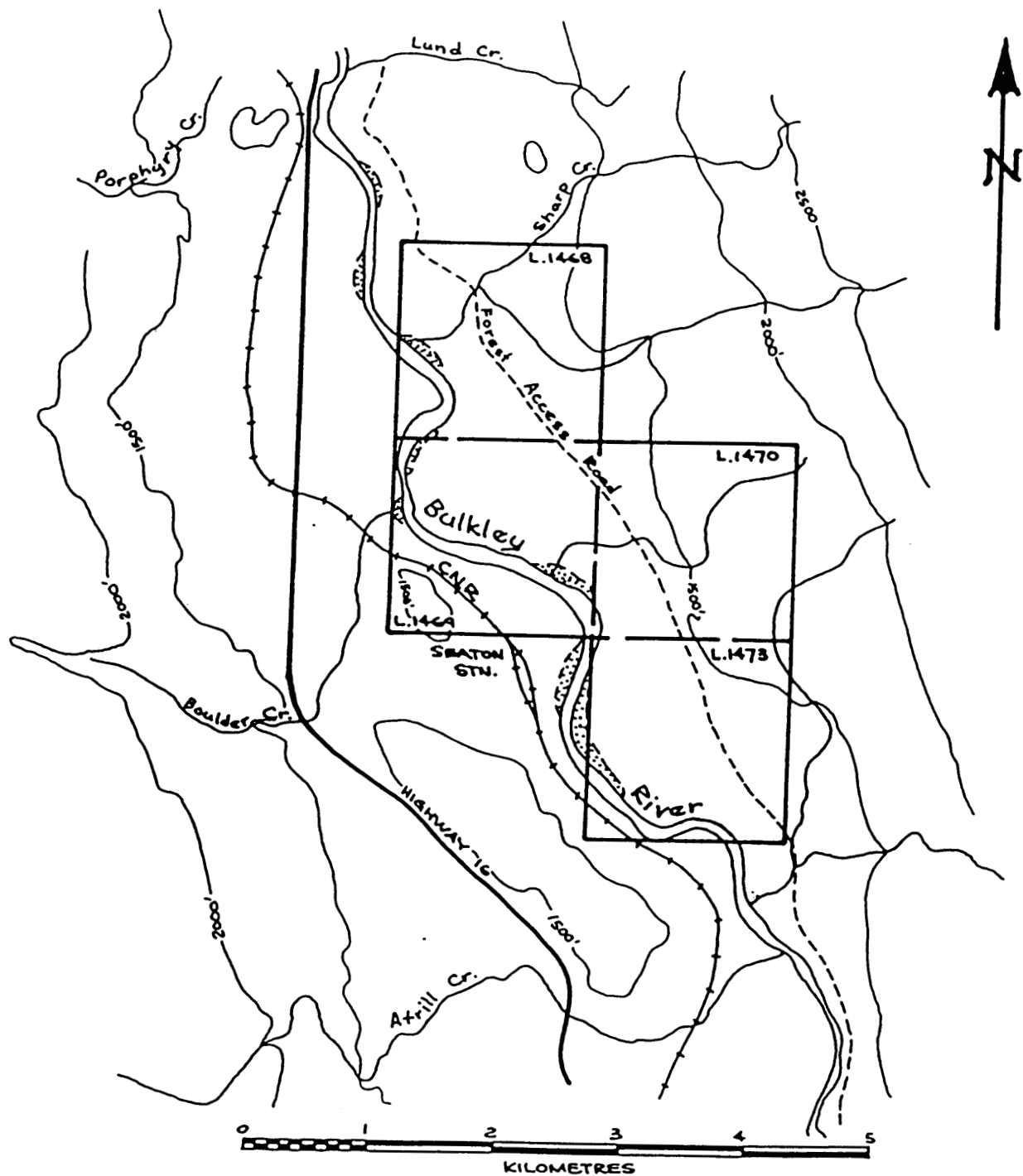
- ▲ Coal Occurrences and Properties. ; ~~~~~ Faults
-  Late Upper Cretaceous- Early Tertiary Fault-controlled sedimentary Basins
-  Lower Cretaceous to lower Upper Cretaceous Skeena and Sustut Groups.
-  Upper Jurassic to Lower Cretaceous Ashman Formation and Bowser Lake Group.

Figure 2 COAL PROPERTY MAP

Bulkley River Property



L. 1470: Land Lot Number

Taken from Richards (1986)

ATNA RESOURCES LTD.



Chemex Labs Ltd.

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Geochemists

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TO : ATNA RESOURCES LTD.
SUITE 720-800 WEST PENDER ST.
VANCOUVER, B.C. - V6C 2V6

CERTIFICATE NO : A8519072
DATE : December 31st. 1985

SAMPLE NO	BASIS	R.M. %	ASH %	V.M. %	F.C. %	SULFUR %	C.V. BTU/LB
CH-1	A.D.	1.65	26.75	24.50	47.10	0.95	10884
	DRY		27.20	24.91	47.89	0.97	11067
CH-2	A.D.	1.22	45.17	19.25	34.36	1.91	7843
	DRY		45.73	19.49	34.78	1.94	7940
CH-3	A.D.	1.82	54.19	26.03	17.96	0.95	5512
	DRY		55.20	26.51	18.29	0.97	5615
CH-4	A.D.	1.52	38.31	21.36	38.81	1.77	8919
	DRY		38.90	21.69	39.41	1.80	9056
CH-5	A.D.	1.54	28.87	23.52	46.07	1.99	10582
	DRY		29.32	23.88	46.80	2.03	10747

CERTIFIED BY.....*W. Sanpmanini*.....



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SAMPLE NO	BASIS	R.M. %	ASH %	V.M. %	F.C. %	SULFUR %	C.V. BTU/LB
PS 189	A.D.	3.55	45.37	16.87	34.21	0.40	7317
	DRY		47.04	17.49	35.47	0.42	7586
PS 190	A.D.	2.92	39.66	18.22	39.20	0.49	8239
	DRY		40.85	18.77	40.38	0.50	8487
PS 191	A.D.	1.58	19.67	24.04	54.71	1.00	12025
	DRY		19.99	24.42	55.59	1.02	12218

CERTIFIED BY *W. Santamaria*



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CERTIFICATE OF ASSAY

TO : ATNA RESOURCES LTD.

720 - 800 W. PENDER ST.
VANCOUVER, B.C.
V6C 2V6

** CERT. # : A8610051-001-A
INVOICE # : I8610051
DATE : 14-JAN-86
P.O. # : NONE

Sample description	Prep code	FSI					
CH-1	214	5.0	--	--	--	--	--
CH-5	214	5.0	--	--	--	--	--
PS-191	214	7.0	--	--	--	--	--

.....
W. Stan Bermani
Registered Assayer, Province of British Columbia

VOI rev. 4/85