

GULF MINERALS CANADA LIMITED
Geologist - Paul Beck

N.T.S. 92 I Geological/
Geophysical Data

REPORT ON STAKING IN THE CACHE CREEK
AREA, BRITISH COLUMBIA. AUGUST, 1979
NTS 92I

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OCTOBER 4, 1979

PAUL BECK
GEOLOGIST



INTRODUCTION

In 1978, Tertiary Miocene continental sediments were prospected and sampled in the area just northwest of Cache Creek, British Columbia, located 60 miles west of the city of Kamloops. This was part of a reconnaissance program in southcentral British Columbia, designed to assess the potential of these basins as likely hosts for roll-type and blanket-type uranium deposits, similar to those in the Western United States.

Anomalous uranium in water values led to a detailed follow-up geochemical sampling program in 1979.

Anomalous uranium in water and stream sediments outlined an area considered suitable for staking. 10 claims totalling 159 units were staked commencing on August 4, and finishing on August 15, 1979.



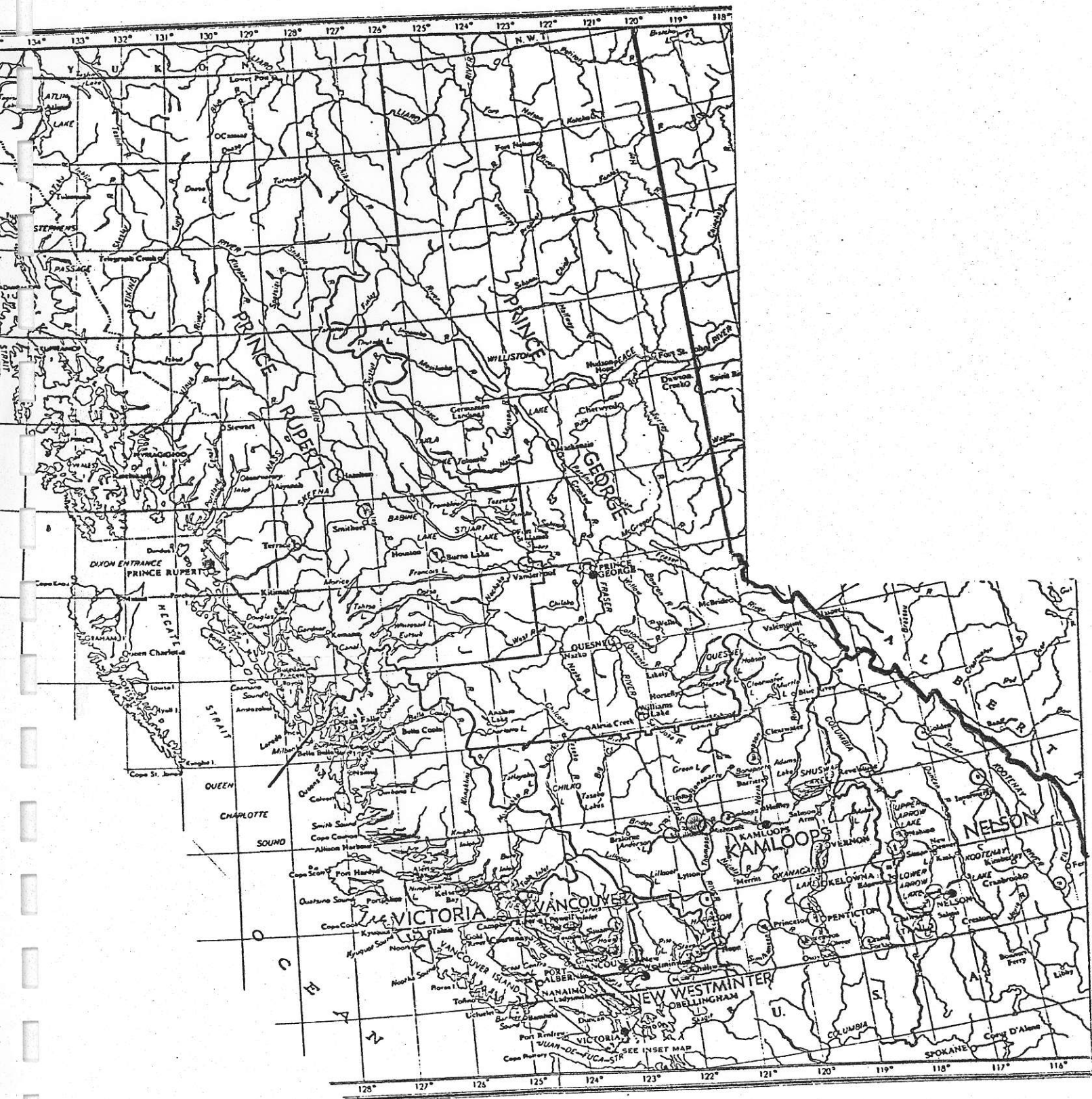


FIGURE 1 - LOCATION MAP

● Location of claims.

LOCATION AND ACCESS

The property is about 5 miles long and 3 miles wide. It is located 145 miles northeast of Vancouver and 60 miles west of Kamloops. The closest town is Cache Creek which lies 12 miles to the southeast. (See Figure 1).

The property is accessible from the south from Highway 12 and then by logging road through Bonaparte Indian Reserve #2. From the north, the property is accessible from Highway 97 and then by logging road along Maiden Creek.

The area lies within the Thompson Plateau, and the topography ranges from rolling to very hilly. Slopes vary from 10-30°. The bush is about 60% open and 40% thick, consisting mainly of spruce, pine, and poplar.

GEOLOGY

Rocks of interest in this area are conglomerates, sandstones and shales of Miocene Age. They are Coldwater Beds which form the lower unit of the Kamloops Group.

The rocks form an elongate basin approximately 30 miles long and up to 4 miles wide running north-south through the northern part of map sheet 92I W 1/2. The basin is bounded by metamorphosed, volcanic and sedimentary units of the Upper Paleozoic Cache Creek Group.



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Conglomerates consist of sub-angular to rounded clasts of chert and volcanics in a pale yellow sandy matrix. The units are moderately well consolidated though some units are very poorly cemented and the clasts are easily removed.

Sandstone units are pale to dark yellow and moderately well sorted. Chert, quartz, feldspar and rock fragments are the main components and are poorly to moderately well cemented.

Some thin carbonaceous and iron-rich mudstones were noted interbedded in some of the conglomerates.

Attitude of bedding is variable in direction and magnitude.

Map 1 in the back pocket shows the location of claims in relation to the local geology.



GEOCHEMICAL RESULTS

Geochemical results are plotted on Map 2 in the back pocket.

The anomalous uranium in water samples drain a broad upland area bounded by Maiden Creek to the north, Hat Creek to the south, and on either side by the edges of the basin. Out of the 21 water samples there were 14 that were anomalous. Anomalies ranged from 4.2 ppb to 14.0 ppb (see geochem sheets on following pages).

Three coincident silt anomalies occur at the mouth of the spring flowing into Maiden Creek, but these anomalies are probably due in part to the high organic content of these samples.

The part of the property drained by the anomalies is drift covered, and drainage is poor.



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STAKING

Staking commenced on August 4, 1979, and was carried out by a 3-man crew, under the modified Grid System, in which 1 claim may consist of up to 20 units, each of which is 500 metres x 500 metres, or slightly larger than 1 old claim. The claim boundaries were blazed and cleared of underbrush.

Staking was completed on August 15, 1979. In total, 60 line kilometers were cleared and blazed and 10 claims were staked consisting of 159 units covering an area of 3,975 hectares (9,823 acres or 15.3 sq. mi).

Claims were recorded in Kamloops on August 15, 1979, at a fee of \$5.00 per claim unit.

Figure 2 shows the location of the claims, the corner posts and legal corner posts.

PB/dda
Oct. 4/79



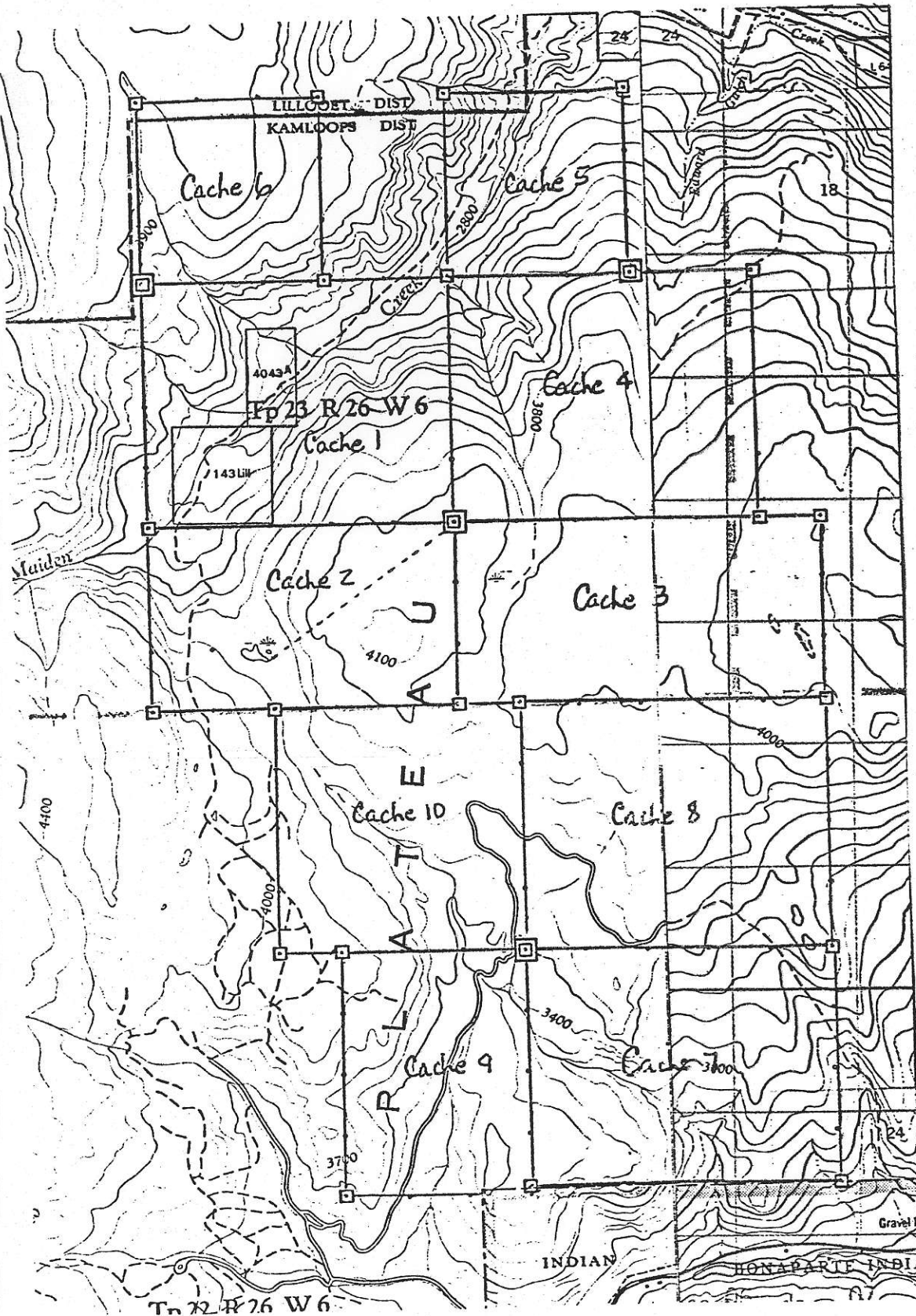


Figure 2 - Claim Configuration

- Corner post
- ▣ Legal Corner post

16.1

Geochemical Laboratory Report /

URANIUM IN WATER

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Sample Number	U ppb	Cu ppb	Pb ppb	Zn ppb	Mn ppb	Ph	Alkalinity mg/l CaCO ₃			
79-151	.2	N.D.	N.D.	N.D.	N.D.					
152	.6					8.5	205			
153	(14.0)									
154	.5					8.3	212			
155	.5									
Area 156	.4					8.4	202			
157	(13.4)									
Creek 159	(12.8)					8.7	371			
160	(13.6)					8.7	403			
161	(9.8)									
Creek 162	(10.0)					8.9	491			
163	(8.6)									
164	(7.2)					8.8	517			
165	(8.8)									
166	(10.4)					8.6	500			
167	(4.8)	N.D.	N.D.	N.D.	N.D.					
	()	anomalous value								

