

Report of exploration

Claims involved: GREER 1 - 4

Omineca Mining Division

NTS location - 93F / 15

latitude 53° N (WRT southwest corner)longitude $124^{\circ} 26'$ W

Owner of Claims: J.C. Stephen explorations

Operator: Dome exploration (Canada) Limited

Consultant: J. C. Stephen

Author:

Date submitted:

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Introduction:

The Greer Claim Group is located within the Nechako Plateau of the Interior System. The Interior System is divisible into the Fraser Plateau in the south and the Nechako Plateau in the north. The most notable distinguishing feature between the two is the difference in relief. The Fraser Plateau represents a greater relief with its high upland surface and deeply entrenched valley floors. The Nechako Plateau is represented by a lower plateau surface and broad, shallow valleys. Many of the landforms seen today are the result of glacial deposition and subsequent erosion. The surface land forms consist of nearly parallel drumlin-like ridges and intervening depressions. Elevations in the claim group range from approximately 2400 feet to 3500 feet.

The drainage of the area is to the Pacific Ocean in the west. The Nechako River, which is just west of the claim group, flows into the Fraser system. Several small streams are found on the claim group and they flow into the Nechako River. Several small ponds are found and boggy areas are quite common.

Access to the claim group is via Nechako Avenue leading south from Vanderhoof. Within the claim itself, there are several miles of logging roads which allow access to a considerable portion of the claim.

The Geer Claim Group consists of four claims: Geer 1, which is made up of 15 units, and Geer 2, 3 and 4, which are made up of 20

units each. The record numbers are 1263, 1264, 1265 and 1266 respectively.

Reconnaissance mapping was carried on for a brief period in the summer of 1978 and this was continued in the summer of 1979. This work includes geological mapping and soil and silt sampling. The current owner of the claim group is J. C. Stephen Explorations, with the operator being Dome Exploration (Canada) Limited.

Several facts indicate that this property has potential for economic uranium mineralization. These include:

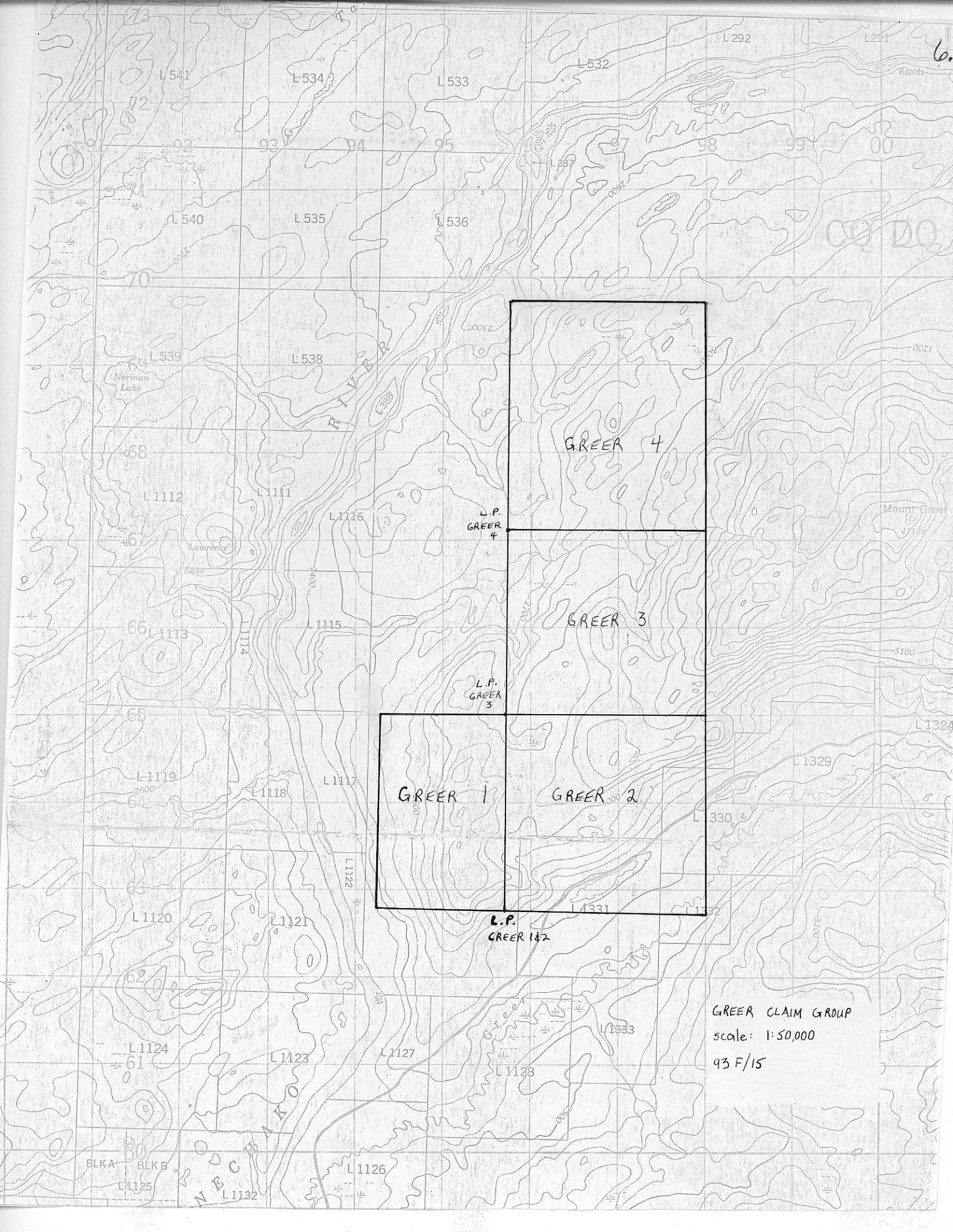
- (a) Scintillometer readings over the rhyolites are 2 to 3 times background. This is an excellent source for uranium mineralization.
- (b) The lower part of the rhyolite is very

very weathered and sheared. This is a good site for uranium mineralization.

(c) The Topley paleo-surface is very irregular. Basins may exist which would be potential traps for mineralization.

Work done on the Greer Claim Group consisted mainly of geochemical surveys, but some geological mapping was also carried out. The geochemical surveying consists of: 247 soil samples, 51 silt samples and 6 rock geochem samples. The geological mapping involved continuing work begun the previous year. More extensive mapping was carried out especially in Greer 4 along the parallel, drumlin-like ridges. Altimeter measurements were taken at

The crests of all ridges mapped.
Scintillometer readings were also taken
at all outcrops encountered.



GREER CLAIM GROUP
scale: 1:50,000
93 F/15

List of Claims upon which Work Was Done

GREER 1:

- (a) geochemical
- 13 silt samples
 - 44 soil samples
 - 1 rock geochem.
- (b) geological - rock type of encountered outcrops were determined; scintillometer and alfinimeter readings taken at all outcrops.

GREER 2:

- (a) geochemical
- 11 silt samples
 - 70 soil samples
 - 5 rock geochem.
- (b) geological
- same as above.

GREER 3:

- (a) geochemical
- 18 silt samples
 - 61 soil samples
- (b) geological
- same as above

GREER 4:

- (a) geochemical
- 9 silt samples
 - 72 soil samples
- (b) geological
- same as above.

Technical Data and Interpretation

The area is underlain by old recrystallized gneissic rocks, Jurassic volcanics of andesite / basalt composition and Tertiary volcanic strata. Outcrops of these types were found along the north / south stretch of road in Greer 2. A shear zone was found at the contact of the Jurassic basalt and andesite.

These were intruded by diorite~~s~~ - granodiorite of Cretaceous age, called the Topley Intrusives. There are very numerous outcrops of diorite and granodiorite, especially in GREER 3 and 4.

In the Late Cretaceous, pink granite dikes were intruded into the area. These dikes were found in diorites in the area of the Legal Post of Greer 1, 2, and 3 and a granite dike was found to intrude mylonite faults at the northern edge of Greer 4.

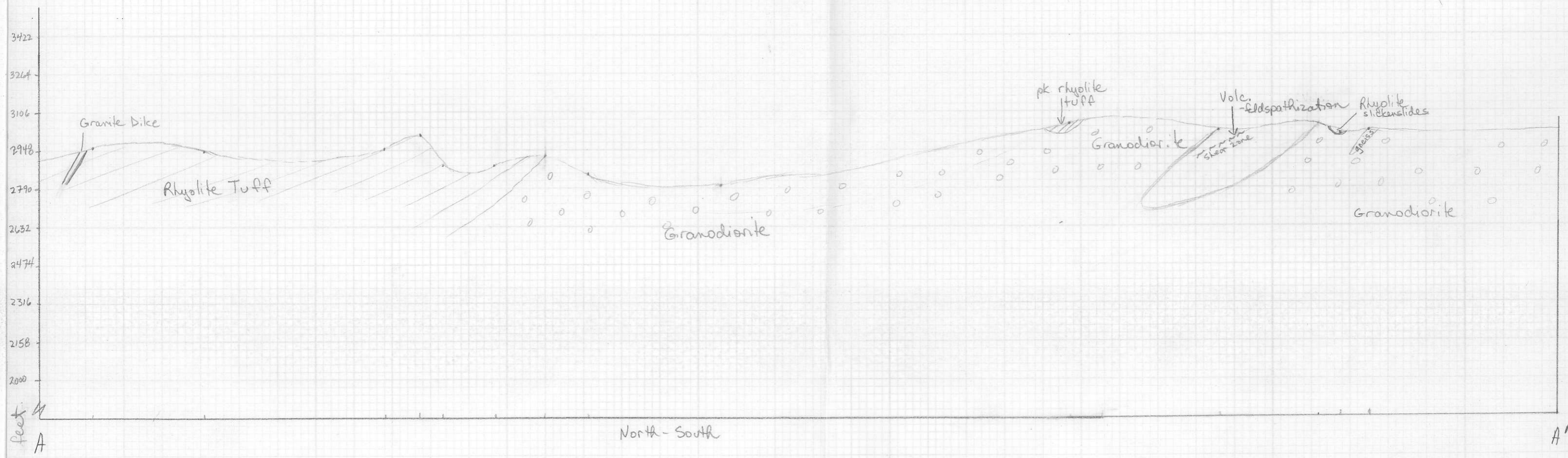
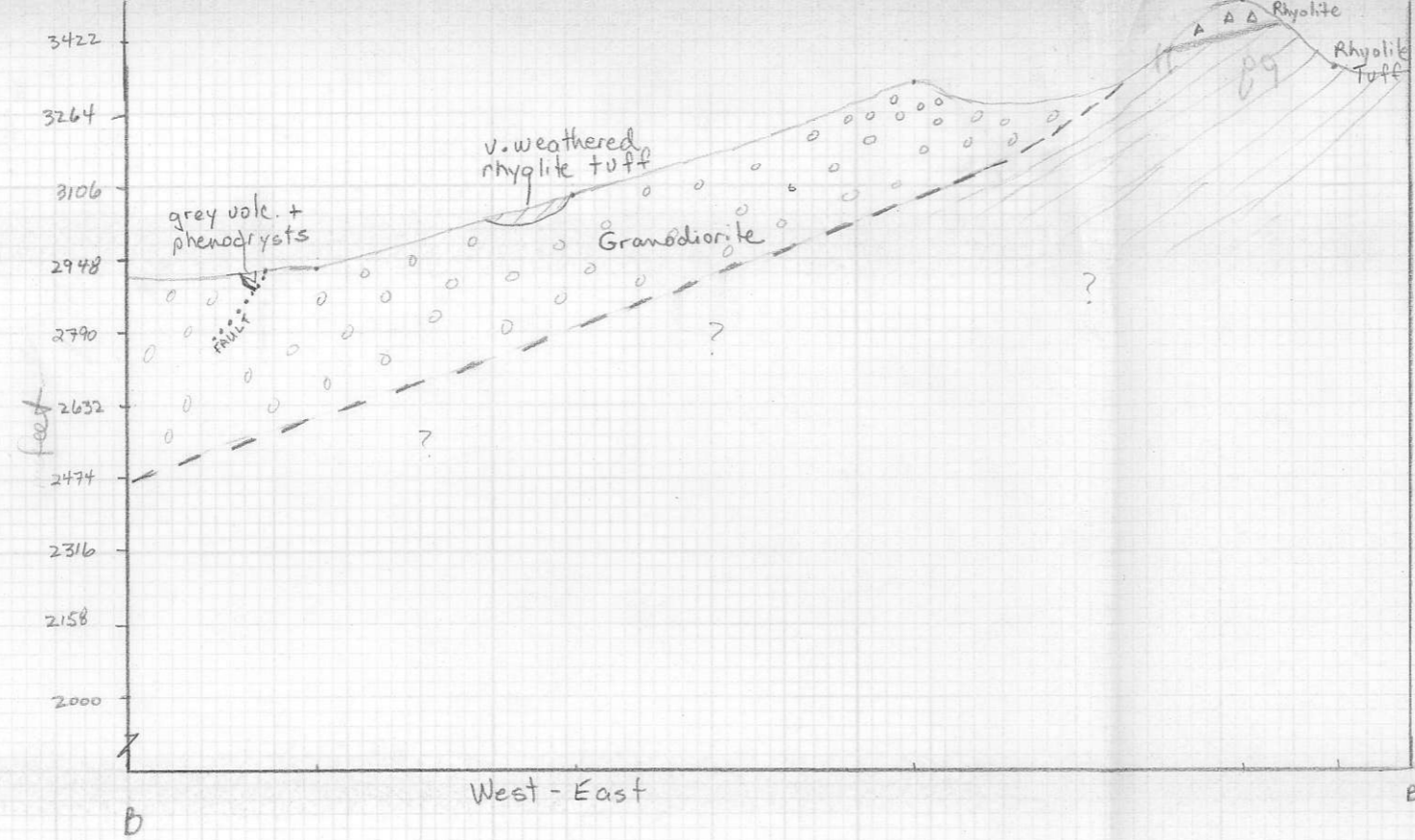
Potassium feldspathization occurred during this time. This involved the volcanics and resulted in the introduction of pyrite, chalcopyrite and some magnetite. This is seen in the volcanics which outcrop along the road in Greer 2.

Early to mid Tertiary was a period during which erosion was dominant. This resulted in a regolith type surface. Evidence to support this was found along the road in Greer 3 where the diorites are very soft and friable. This characteristic was also found in granodiorite in a stream channel near the western edge of Greer 3. Elevations of these two outcrops are approximately 3000 feet and 2900'.

In the Tertiary, the area was faulted. Evidence for this faulting was found in several locations within the claim group.

Slickenslides were found on a white rhyolite in Greer 2 and many slickenslides were found on granodiorite outcrops in the stream channel on the western edge of Greer 4.

Onto this weathered and faulted surface, tuffs, fragmentals and basaltic flows were extruded. Later uplift and erosion left many areas of basalt-topped mounds.



Cross Sections: Greer Claim Group.
 scale 1:15840.

Cost Statement

Wages

G. Cahoon	Aug 8-22/78		
14 days	@ 1500/month	\$ 700.	
H. Aumack	Aug 8-22/79		
14 days	@ 880/month	410.	
B. Jacques	Aug 8-22/79		
14 days	@ 1100/month	515.	
A. Stanta	June 3 - 28/79		
25 days	@ 1100/month	917.	
B. Rode	June 3 - 28/79		
25 days	@ 1100/month	917.	
H. Aumack	June 5 - 10/79		
5 days	@ 1100/month	183.	
M. Seifert	June 5 - 10/79		
5 days	@ 1100/month	183.	
C. Stephen	June 6 - 10/79		
4 days	@ 100/day	400.	\$ 4225. ⁰⁰

Food and Camp Supplies

1978:	3 men x 14 days x \$10/day	420.	
1979:	2 men x 26 days x \$10/day	520.	
	2 men x 5 days x \$10/day	100.	
	1 man x 4 days x \$10/day	40.	1080. ⁰⁰

Truck Rental and Operation

1978:	14 days @ 660/month	310.	
1979:	25 days @ 660/month	550.	860. ⁰⁰

Geochem. Cost

1978:	12 silt for U, Mo, Cu @ \$4. ⁴⁵	53.	
	5 rock geochem U, Fl, Th @ \$6. ⁵⁰	32.	
1979:	39 silt for U, Mo, Cu @ \$4. ⁴⁵	173.	
	1 rock geochem U, Mo, Cu @ \$6. ⁵⁰	6.	
	247 soils for U, Mo, Cu @ \$5. ¹⁰	1260.	1524.
	<u>Total</u>		<u>\$7689.⁰⁰</u>