730

ACE GROUP

GEOLOGICAL REPORT

by

D. C. MALCOLM, P.Eng., 2568

VANCOUVER, B. C.
December, 1965

ACE GROUP

OWNER:	Omineca Sixty Four Syndicate
CLAIMS:	Ace numbers 1 to 28 inclusive
LOCATION:	Eutsuk Lake
LATITUDE:	54°
LONGITUDE:	126° S.W.
	Omineca Mining Division
AUTHOR:	D. C. Malcolm, P.Eng., 2568
DATES OF WORK:	August 1st to September 4th, 1965
	December 8th to 20th, 1965

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SUMMARY

Geologists for Omineca Sixty Four surveyed the area with chain and compass in 1965. The area had been previously mapped by the Geological Survey of Canada Memoir 299 - Whitesail Lake Map Area by S. Duffell. The 1965 work showed the area to be underlain by Hazelton Series volcanics and sediments intruded by granite and altered and mineralized along shear and fracture zones.

LOCATION

Latitude 53° 22' Longitude 127° Elevation 4,000 to 5,000 feet. The claims lie between Eutsuk and Whitesail Lakes 75 miles south west of Burns Lake, B. C. in the Omineca Mining Division. The claims can best be reached by helicopter from Burns Lake.

GEOLOGY

a) Topography

The claims lie on the regular north facing slope of Chikamin Mountain between Whitesail Lake elevation 2,800 feet and the top of the ridge elevation 6,000 feet. The slope is forest covered to timberline at 4,000 feet and meadows and scrub timber covers the upper claims.

b) General Geology

Gently dipping Hazelton Series volcanics, interbedded

sediments, and fragmentals cover most of the general area. These rocks are faulted and intruded by syenite, granite, diorite associated with the Coast Range Intrusives.

Pyrite and chalcopyrite mineralization is widespread in the area and lead, zinc and silver veins have been explored on Chickamin Mountain.

c) Claim Geology

The andesites, agglomerates, cherts, limy tuffs and hematitic tuffs strike northwest and dip from 10 to 45 degrees to the southeast. These rocks contain numerous crushed zones which strike northwest and northeast and dip steeply. These rocks are altered and the whole claim area may be underlain by a fine grained granite or granite porphyry intrusive. At the southeast corner of the group a breccia pipe or plug of fine grained granite contains fragments of granitized older rocks. Working outward from this breccia zone on Ace No. 8 claim the amount of granite decreases until only an occasional dike is found. The bedded rocks around the zone are altered with the sediments changed to quartz sericite schist, and the andesites altered to an actinolite feldspathic skarn with magnetite and epidote. Feldspars in the intruded rocks decrease away from the intrusive. On claim 9 basic volcanics have been sheared and serpentinized. These may be connected with the breccia zone or they may be connected with an syenite intrusive, (essentially an orthoclase rock), which outcrops on claims 2 and 5. The contacts of this intrusive with

hematitic tuffs and andesite show only low grade metamorphism and this could be a feldspathitization of the rocks rather than a separate intrusive.

There are other areas of feldspar on the northeast claims which are believed to be alteration or the surface expression of an aura about a buried intrusive rather than an intrusive rock.

Many of the rocks are faulted and crushed and the predominant faults and shear zones strike northwest and dip steeply northeast and southwest. Less noticeable faults strike north, east and northwest and offset the layered rocks along steep fault planes. The topography is partly controlled by the more noticeable northeast faults.

ALTERATION AND MINERALIZATION

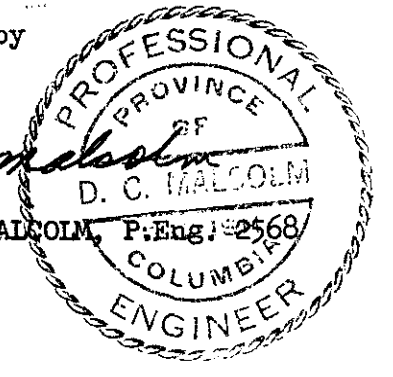
The northeast faults have, in part, controlled the alteration and mineralization on the claims. The alteration is as previously mentioned, sericitization feldspathitization, and various degrees of metamorphism varying from low grade metamorphosed volcanics to garnetiferous contact skarns. Epidote, actinolite, magnetite and silicified areas have been mapped and while the geological picture is confused the alteration is believed to be controlled by underlying intrusives. The mineralization is confusing too. There are definite pyritic haloes about the intrusive breccia on claim 8 and on the northwest claims (Nos. 18,

19, 24 and 25). Higher temperature skarn magnetite-chalcopyrite-bornite mineral deposits occur along shear zones beyond the pyritic halo and disseminated hematite, pyrite and chalcopyrite occurs in agglomerates, limy tuffs, andesites and in hematitic tuffs on claim 12 in areas of sheared and fractured rock further removed from outcropping granitic rocks. This mineral zoning can only be explained by their proximity to buried intrusives.

SUMMARY OF GEOLOGY

A bedded series of Hazelton sediments, fragmentals and flows are extensively fractured and intruded by granite on claim 8. The rocks are erratically altered and mineralized and it is thought that the layered rocks are a cover over buried intrusives.

Report by



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CLAIMS

Ace Group Omineca Mining Division

CLAIM	RECORD NUMBER	RECORDED
Ace No. 1	26044	July 9th, 1964
2	26045	July 9th, 1964
3	26046	July 9th, 1964
4	26047	July 9th, 1964
5	26048	July 9th, 1964
6	26049	July 9th, 1964
7	26050	July 9th, 1964
8	26051	July 9th, 1964
9	26052	July 9th, 1964
10	26053	July 9th, 1964
11	26054	July 9th, 1964
12	26055	July 9th, 1964
13	26056	July 9th, 1964
14	26328	August 3rd, 1964
15	26329	August 3rd, 1964
16	26330	August 3rd, 1964
17	26331	August 3rd, 1964
18	26332	August 3rd, 1964
19	26333	August 3rd, 1964
20	26334	August 3rd, 1964
21	26335	August 3rd, 1964
22	26336	August 3rd, 1964
23	26337	August 3rd, 1964
24	26338	August 3rd, 1964
25	26339	September 23rd, 1965
26	27060	September 23rd, 1965
27	27061	September 23rd, 1965
28	27062	September 23rd, 1965

DO NOT FILM

DOMINION OF CANADA:
PROVINCE OF BRITISH COLUMBIA.
TO WIT:

In the Matter of Financial Accounting on work done during 1965 on the Ace Group of Claims Record No. 26044-56, and Record No. 26328-38, and Record No. 26339, and Record No. 27060-62.

I, J. DOUGLAS CARNAHAN, Free Miner #32263, and Mining Engineer #4459,

of the City of Vancouver

in the Province of British Columbia, do solemnly declare that the following men performed work on the Ace Group of Mineral Claims during 1965 for a total cost of $3,140.00.

D. C. Malcolm, Geological Engineer,	August 1-September 4, 1965	$1,200
	December 8-20, 1965	440
I. Holmes, Geological Assistant,	August 1-8, 1965	200
	August 15-25, 1965	275
S. Eakin, Geological Assistant,	July 26-August 8, 1965	325
	August 15, 1965	25
K. Baker, Geological Assistant,	July 26-August 8, 1965	195
	August 15-25, 1965	165
D. Malcolm, Geological Assistant,	August 15-September 4, 1965	315
		$3,140

And I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath and by virtue of the "Canada Evidence Act."

Declared before me at the City of Vancouver, in the Province of British Columbia, this 3rd day of February, 1966, A.D.

J. Douglas Carnahan
J. DOUGLAS CARNAHAN

Shirley Jeannotte

~~A Commissioner for taking Affidavits within British Columbia~~ or ~~A Notary Public in and for the Province of British Columbia.~~

Sub-mining Recorder

CARIBOO C.R.

GLACIER CR.

CAMP C.R

RUST CR

24 18 16 14 10 8 21

25 19 17 15 11 9 20

22 12 6 4 2 1

23 13 7 5 3

26 27 28

LEGEND

7 Andesite
6 Agglomerate
5 Tuff
4 Chert
3 Serpentine
2 Syenite
1 Granite
Fault
Breccia
Contact

Department of Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 730 MAP #1

To accompany report (geological) on Ace Group by D. C. Malcolm at Eutsuk Lake, Omineca M.D., dated December 1965.

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OMINECA 64

GEOLOGICAL PLAN

ACE

Scale 1"=500' Date 8,8,65

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA D. C. MALCOLM

D C Malcolm Eng.