

REPORT
GEOLOGICAL INVESTIGATION & RECONNAISSANCE
OF
WEDGE NOS. 1-24 MINERAL CLAIMS
PELLY RIVER AREA, Y.T.

TABLE OF CONTENTS

1. Covering Letter - L. G. White, P.Eng.
2. Geological Report - C. E. Dunn, Geologist.
3. Expense Summary.
4. Appendix.
 - (a) Map of Claims & Geology.

VANCOUVER, B.C.,
October 28, 1954.

October 28, 1954.

Mining Recorder,
WHITEHORSE, Y.T.

Dear Sir:

We submit hereunder our report covering the geological reconnaissance and mapping program completed on the group of mineral claims in the Pelly River Area recorded as "Wedge Nos. 1-24".

The work was conducted under the supervision of a qualified geologist. Purpose of the work was to examine all rock outcrops with a view to correlation of structural features that might lead to successful discovery of mineral in place, warranting subsequent exploration and development to outline orebodies of commercial significance.

To complete the geological investigation, it was necessary to transport men and supplies to the area by plane. It was also necessary to employ horses for packing supplies to the camp. The total crew consisted of five men. An expense summary is attached, outlining the total costs distributed to the job.

We submit this report together with our completed Affidavits for a Certificate of Work to be granted under Section 54 (2B) of the Yukon Quartz Mining Act.

Yours very truly,



L. G. White, P. Eng.,
Agent for: K. J. Springer,
604 Hall Bldg.,
789 West Pender St.,
VANCOUVER 1, B. C.

LGN/hc.
Encl.

A GEOLOGICAL REPORT

ON

THE WEDGE GROUP

OF

MINERAL CLAIMS.

FELLY RIVER AREA, Y.T.

WHITEHORSE, Y.T.,
October 15, 1954.

By: C. E. Dunn,
Geologist.

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A GEOLOGICAL REPORT ON THE WEDGE GROUP OF MINERAL CLAIMS.

NAME and GRANT NUMBERS of the WEDGE CLAIMS:

The Wedge Group consists of twenty-four mineral claims, numbered 1 to 24. The following are the corresponding grant numbers, date staked and date recorded:

<u>NAME</u>	<u>GRANT NO.</u>	<u>DATE STAKED</u>	<u>DATE RECORDED</u>
Wedge No. 1	67601	Nov. 17, 1953	Dec. 14, 1953
" " 2	2	"	"
" " 3	3	"	"
" " 4	4	"	"
" " 5	5	"	"
" " 6	6	"	"
" " 7	7	"	"
" " 8	8	"	"
" " 9	9	"	"
" " 10	67610	"	"
" " 11	11	"	"
" " 12	12	"	"
" " 13	13	"	"
" " 14	14	"	"
" " 15	15	"	"
" " 16	16	Nov. 18, 1953	"
" " 17	17	"	"
" " 18	18	"	"
" " 19	19	"	"
" " 20	67620	"	"
" " 21	21	"	"
" " 22	22	"	"
" " 23	23	"	"
" " 24	24	"	"

REGISTERED OWNER:

The Wedge group of twenty-four mineral claims as listed above is registered in the name of K. J. Springer, 604 Hall Building, 789 West Pender Street, Vancouver, B.C.

LOCATION and ACCESS:

The Wedge group is located in the Pelly River Area, Yukon Territory, at approximately Latitude 62° 14' north and Longitude 139° 17' west. The claims lie approximately two miles west of the property held by Prospectors Airways Ltd.

The claims are situated 120 air miles northeast of Whitehorse. There are lakes near the claims suitable for landing by float-equipped aircraft. A landing strip is being built on the Prospectors Airways property. An access road is being constructed from Carmacks to Ross River, which will service the general area.

ADJOINING CLAIMS:

The Wedge group is adjoined on the north by the Piper group; on the east by the Mye group; on the southeast by the K.K. group and on the south by the John group. The ground immediately to the west is unstaked.

DATE and METHODS USED IN MAPPING:

The geological reconnaissance and mapping program on the Wedge group and the adjoining 13 claims of the Piper group was completed between August 23rd and September 26th, 1954. Location lines were cut out and surveyed by Brunton and chain; stations were established at 100-ft. intervals along the location lines, and flags erected and shot in by cross-bearings or chaining. The flag stations were used to locate outcrops and/or to establish elevations for contouring. An elevation of 3000 feet was assumed as a datum, starting at No. 2 Post of the Wedge No. 12 M.C.

GENERAL GEOLOGY:

The Wedge group is mostly drift covered, with very few outcrops exposed in the area. The few exposures consisted of rock types belonging to the Yukon group. The northern edge of the group has some small spruce and the remainder of the group is covered by the remnants of a 13-year old forest burn. Granodiorite outcrops over a large area to the northeast of the group in the vicinity of Dickson Lake.

MINERALIZATION:

No evidence of mineralization was located during the course of the surveying and prospecting work.

GEOLOGY OF THE WEDGE GROUP:

The rock types belonging to the Yukon group range in age from Precambrian to Permian. The group consists of altered sedimentary and igneous rocks, which have undergone various degrees of metamorphism. On the Wedge group the exposed rock types consist of schists, altered quartzites, diorite or greenstone, conglomerates, and one outcropping of limestone.

DESCRIPTION OF ROCK TYPES:1. Argillite

The argillite which outcrops on the western edge of the Wedge No. 22 mineral claim is dense black in colour. The fracture planes contain a calcareous material. The contact with the quartzite is gradational.

2. Chlorite and Sericite Schist (3)

The chlorite schists which outcrop on the Wedge No. 15 mineral claim weather to a grey-green colour and due to the weathering of quartz show rusty phases. These small bands of porcelain coloured quartz, up to 2" wide, occupy the foliation planes. The foliation planes are slightly crenulated. The chlorite schists are often very slaty. The schists contain abundant chlorite and minor amounts of sericite.

The outcropping of sericite schists on the southern slope of the Wedge No. 17 mineral claim weather to a silvery green colour. On fresh surface the schist consists of about 40% quartz and 60% sericite. The sericite schists contain bands of porcelain coloured quartz similar to the chlorite schists.

4. Quartzite

On weathered surfaces the quartzites vary from a blue-grey to green colour. On fresh surface the predominant colour is blue-green to grey. They are very fine grained, often cherty, and contain specks of sericite, together with minute stringers of calcite. The quartzites occur as bedded structures along the north rim of the large bluff on the Wedge No. 16 mineral claim.

5. Limestone

The limestone is a dark blue colour, fine grained, and is believed to occur as a lens in the quartzite. The contact between the limestone and the outcrop of quartzite on the Wedge No. 20 mineral claim was drift-covered. Scattered flakes of sericite occur in the limestone.

6. Diorite

The term diorite has been used in this report to conform with the nomenclature of a similar rock type on the Prospectors Airways property. The writer believes greenstone would be a more appropriate term.

The diorite outcrops on the Wedge No. 8 and No. 10 mineral claims.

On the Wedge No. 8 the diorite resembles a gabbro in composition and is slightly schistose. Small stringers of epidote and calcite cut the outcrops. On the Wedge No. 11 the diorite is strongly foliated.

In general, the diorites have a fine grained texture and are pale green in colour on both fresh and weathered surfaces. A few narrow quartz veins, up to 1" wide and discontinuous, occur in the diorites.

7. Conglomerate

The conglomerates consist of rounded and semi-angular pebbles, up to 2" in diameter, of cherty quartzite, argillite, chlorite and sericite

schists. The matrix is siliceous and of the same material as the fragments. Minute stringers of calcite traverse the conglomerate outcrop on the Wedge No. 20 mineral claim.

STRUCTURAL GEOLOGY:

A synclinal trough, trending east-west, can be assumed in the swamp section which separates the chlorite schists on the Wedge No. 15 and the quartzites on the Wedge No. 8 and No. 9 claims. The small outcrop of limestone exposed on the Wedge No. 20 mineral claim is believed to occur as a lens in the quartzite. There are too few rock exposures on the Wedge group to enable one to prove or assume the presence of faulting. The writer did not see any geological evidence of faulting.

GENERAL SUMMARY and CONCLUSION:

Complete reconnaissance and examination of all exposed rock was completed. All creek gullies were traced for indications of mineralization. The large areas of non-outcrop were prospected for the presence of mineralized float and "frost heaves". However, the deep overburden could mask any underlying mineralized bodies should they exist.

RECOMMENDATIONS:

Any further exploration program planned for the above described claim group should employ geophysical or geochemical methods of prospecting.


Due to the extensive areas of overburden in relation to the few scattered rock outcrops, further surface prospecting is not warranted or recommended.

Respectfully submitted,

By:


C. E. Dunn (Geologist)

For:


L. G. White (P. Eng.)

Whitehorse, Y.T.,
October 15, 1954.

EXPENSE SUMMARY

TO:-

Transporting and supplying the five-man crew which conducted a geological reconnaissance and mapping program on the Wedge group of mineral claims in the Pelly River Area, Y.T.

Crew: 5 men
Time: 20 days
No. of Claims: 24

LABOUR COSTS - Per Payroll Summaries:

1 Geologist-in-Charge @ \$18.00/day	\$ 360.00
1 Student Assistant @ \$11.00/day	220.00
2 Line Cutters @ \$9.00/day	360.00
1 Horse Wrangler @ \$10.00/day	<u>200.00</u>

Total Payroll Costs: \$ 1,140.00

Workmen's Compensation (Insurance) @ 5% - 57.00

BOARD COSTS - Per Northern Commercial Invoices:

Food supplies averaged \$4.00/day/man or \$20.00/day -

Total Supplies Cost: 400.00

TRANSPORTATION - Whitehorse Flying Services:

Plane Charters - Total hours 12 @ \$80.00 - 960.00

HORSE RENTALS - T. Connelly, Ross River, Y.T.

Packing supplies and equipment - 2 horses @ \$6.00 - 120.00

PREPARATION and PRINTING REPORT - Engineering Service: 50.00

TOTAL EXPENSE: \$ 2,727.00

Correct:

Expense/Claim: \$ 113.62


L. G. White.



LEGEND

- Conglomerate
- Diorite
- Limestone
- Quartzite
- Sericite-schist
- Chlorite-schist
- Argillite
- Swamp
- Claim post
- Lake
- Schistosity, gneissosity
- Formation contact
- assumed
- Outcrop boundary
- Small outcrop

**GEOLOGICAL PLAN
WEDGE CLAIM GROUP
ROSS RIVER AREA Y.T.**

SCALE 1" = 400'
GEOLOGY - CEDUNN WHITEHORSE YUKON OCT. 17, 1954

C. E. Dunn

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