



REPORT  
GEOLOGICAL INVESTIGATION & RECONNAISSANCE  
OF  
CUB NOS. 1-20 MINERAL CLAIMS  
PELLY RIVER AREA, Y.T.

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Mining Engineer.
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VANCOUVER, B.C.,  
October 30, 1954.

November 2, 1954.

Mining Recorder,  
Department of Northern Affairs & Natural Resources,  
WHITEHORSE, Y.T.

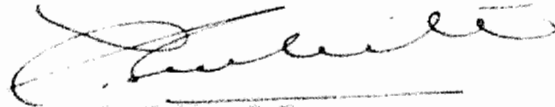
Dear Sir:

Submitted herewith are our reports and expense summary, together with the general map covering the geological investigation and reconnaissance completed on the CUB Group of Mineral Claims, situated in the Pelly River Area, Yukon Territory.

The crew of four men -- two experienced prospectors and two students -- under guidance of a qualified Mining Engineer, surveyed location lines and examined all rock exposures on the entire twenty claims. Complete data have been plotted on the accompanying map.

Included herewith are Grouping Notices and Affidavits in application for Certificates 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 Building,  
789 West Pender St.,  
Vancouver 1, B.C.

LGW/hc.  
Encl.

A GEOLOGICAL REPORT  
ON THE  
CUB GROUP OF MINERAL CLAIMS  
FELLY RIVER AREA, Y.T.

VANCOUVER, B.C.,  
October 30, 1954.

By: H. Powell,  
Mining Engineer.

A GEOLOGICAL REPORT ON THE CUB GROUP OF MINERAL CLAIMS.

CONFIDENTIAL

NAME and GRANT NUMBERS of the CUB CLAIMS:

The Cub group consists of twenty mineral claims, numbered 1 to 20. 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>
Cub No. 1	67654	Nov. 18, 1953	Dec. 14, 1953
" " 2	5	"	"
" " 3	6	"	"
" " 4	7	"	"
" " 5	8	"	"
" " 6	9	"	"
" " 7	67660	"	"
" " 8	1	"	"
" " 9	2	"	"
" " 10	3	"	"
" " 11	67673	Nov. 19, 1953	"
" " 12	4	"	"
" " 13	5	"	"
" " 14	6	"	"
" " 15	7	"	"
" " 16	8	"	"
" " 17	9	"	"
" " 18	67680	"	"
" " 19	1	"	"
" " 20	2	"	"

REGISTERED OWNER:

The Cub group of twenty mineral claims as listed above is registered in the name of K. J. Springer, 604 Hall Building, 789 West Pender Street, Vancouver 1, B.C.

LOCATION & ACCESS:

The Cub group is located in the Pelly River area, Yukon Territory, at approximately Latitude 62° 17' north and Longitude 133° 18' west, and is covered by Topographic Sheet No. 105K (TAY RIVER). The group may be reached by float plane 120 air miles northeast of Whitehorse by landing on Dickson Lake some five miles to the northeast. There is a projected road from Carmacks via Blind Creek on the Pelly River to Ross River, which

in future will service the area.

ADJOINING CLAIMS:

The Cub group is adjoined on the northwest by the Cassna claims; on the northeast by the Baron and Andy groups; on the southeast by the Hodg, Van and Piper groups; and on the southwest by the Super group.

DATES and METHODS USED IN MAPPING:

Reconnaissance and mapping were carried out between August 26th and September 16th, 1954. Lines were run by compass and chain and outcrops and geological features by cross-cruising and pacing.

GENERAL GEOLOGY:

The property is contained on the large hills between the upland trench-like depression partly occupied by Rose Creek and the undulating slopes rising to the northeast of the Pelly River valley.

The main geological feature is the Rose Creek depression trending North 55° West and its parallel alignment with the Pelly River depression, which may be the continuation of the Rocky Mountain Trench into the Yukon.

With the exception of Claim Nos. 1, 2, 11 and 12, the group is mostly drift covered, supporting tall willow, Arctic birch and spruce.

GEOLOGY OF THE CUB GROUP:

The exposures are chiefly schists and altered diorites belonging to the Yukon group of rocks, which range in age from Precambrian to Permian. The diorites are believed to occur as sills in the schists as evidenced by the interbedding on the Cub No. 3 M.C. The exposures seen along Rose Creek to the northeast would support the hypothesis. In general, the diorites are foliated, have a fine grained texture and are pale green to grey in colour on both fresh and weathered surfaces. On the Cub No. 3 and No. 5 mineral

claims the diorite is somewhat gneissic in characteristics due to the narrow, discontinuous quartz veins occupying the foliation planes therein. The conglomerate outcrops, which occur in the southern portion of the Gub group, 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. The schists vary in composition and texture. On the Gub No. 9 claim they are chloritic and fine grained and slightly slaty, while on the Gub No. 14 claim they contain massive quartz and are of a quartz mica schist in composition and coarse grained in texture. The original fabric has been destroyed during the various stages of metamorphism undergone by the schist members of the Yukon group.

No geological evidence of faulting and very little shearing was seen on the Gub group. Mineralization is conspicuous by its absence. No interformational contacts were seen. The structure of the group as a whole could be postulated as consisting of interbedded members of the Yukon group occupying the upper portion of a large regional synclinal fold, which has an axis (North 55 degrees West) trending parallel to the Pelly River depression. The basin occupied by Rose Creek immediately northeast of the group has been assumed to be the surface expression of faulting.

#### GENERAL SUMMARY & CONCLUSIONS:

A complete examination and reconnaissance of all exposed outcrops was made and there is sufficient rock exposure on the high ridge overlooking the Rose Creek valley to get a very fair picture showing the general conformity of the formation underlying this group. The dip is from 15° to 20° to the southwest, with trend northwest.

(4)

Search was made on areas covered by overburden for frost heaves and any other mineralized float in the adjacent small creeks, without result.

Although no mineralization and very little shearing was noted on the group, this does not preclude the possibility of an orebody existing beneath the overburden.

No further surface prospecting is recommended and any future exploration planned should be carried out by geophysical or geochemical methods.

Respectfully submitted,



H. Powell,  
Mining Engineer.

/hc.  
Vancouver, B.C.,  
October 30, 1954.

EXPENSE SUMMARY

TO:-

Costs of supplying and maintaining a crew of five men on Rose Creek in the Pelly River area, 140 air miles northeast of Whitehorse, Y.T. Purpose of the job was to conduct a complete geological reconnaissance and mapping program on the CUB Mineral Claims Nos. 1-20.

Crew: 5 men  
Time: 12 days  
No. of Claims: 20

LABOUR COSTS: Per Payroll Summaries.

1 Mining Engineer - Party Chief @ \$18.00/day	\$ 216.00
2 Prospectors - @ \$12.00/day	288.00
2 Students - @ \$11.00/day	<u>264.00</u>
Total Labour Costs:	\$ 768.00
Workmen's Compensation Insurance @ 5%	38.40

BOARD COSTS - Per Northern Commercial Invoices:

Food supplies averaged \$4.00/day/man  
Total supplies cost (12 x \$20.00) 240.00

TRANSPORTATION - Whitehorse Flying Services:

4 Plane charters - Total hours: 12 @ \$80.00 960.00

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

Packing supplies - 2 horses @ \$6.00  
Total cost - (\$6.00 x 12) 72.00

PREPARATION & PRINTING REPORT - Engineering Service: 50.00

TOTAL EXPENSE: \$ 2,128.40

EXPENSE/CLAIM: \$ 106.42

Correct:

  
L. G. White.

