

2744



REPORT
ON A GEOCHEMICAL AND GEOLOGICAL SURVEY
OVER PART OF

THE

SWEDE ZONE
ON SWEDE CLAIM 42

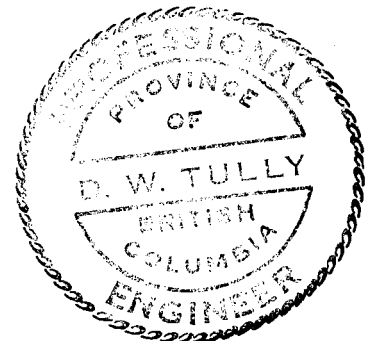


NEW WESTMINSTER MINING DIVISION
HOPE, BRITISH COLUMBIA

FOR

KELSO EXPLORATIONS LTD (N.P.L.)
470 GRANVILLE STREET
VANCOUVER, B.C.

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. **2744** MAP.....
BY



Donald W. Tully

June 12, 1970

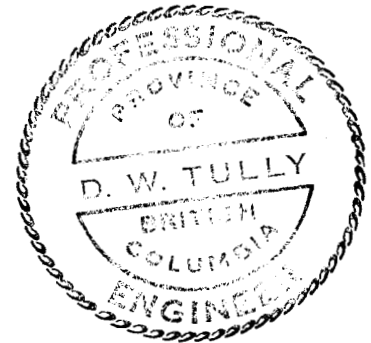
West Vancouver, B.C.

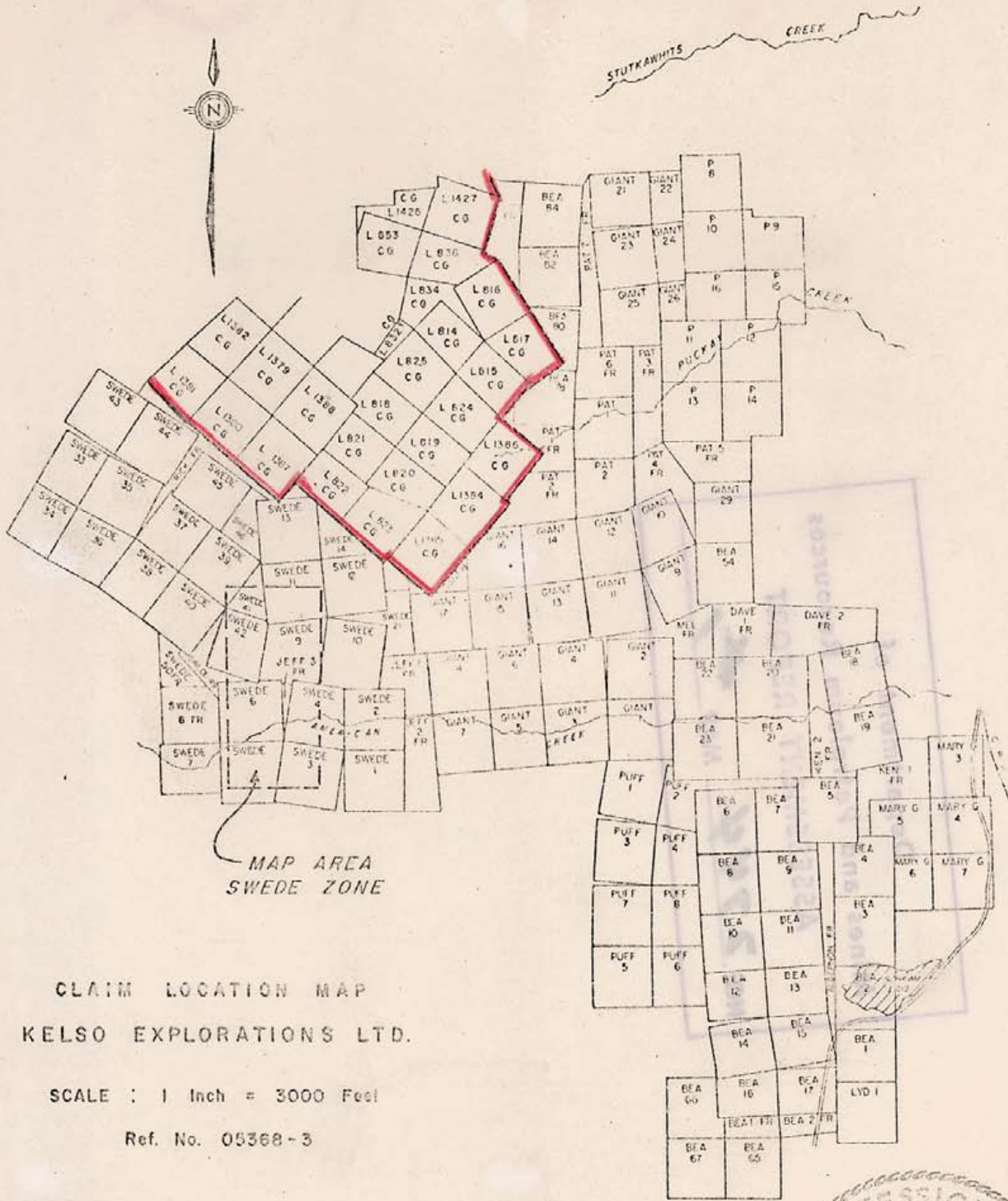
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MAPS

#1 PROPERTY CLAIM MAP	(opposite page 1)
#2 GEOCHEMICAL MAP 1" = 100'	(in pocket)
GEOLOGY AND PROPOSED GEOCHEMICAL	
#3 PROGRAMME 1" = 400'	(in pocket)



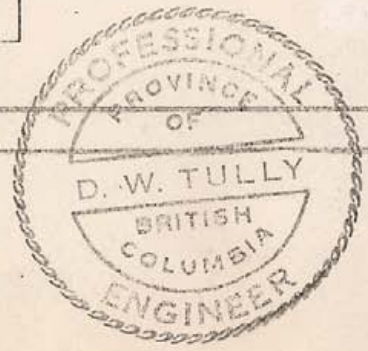


MAP AREA
SWEDE ZONE

CLAIM LOCATION MAP
KELSO EXPLORATIONS LTD.

SCALE : 1 Inch = 3000 Feet

Ref. No. 05368-3



SUMMARY AND CONCLUSIONS

1800 feet of bulldozer trenching and 41 geochemical soil samples have indicated a nickel and copper anomaly on the Swede claims (zone I) in the northwest part of the property on Swede claim 42.

Anomalous copper and nickel results averaging in parts per million at 350 and 300 respectively suggest an anomaly developing up-slope on Swede claims 9, 11 and 41 towards the Giant Mascot boundary to the north some 3400 feet distant.

Altered basic rocks carrying occasional blebs of pyrrhotite are present.

Further geochemical work and mineral studies over an area 3400 x 2000 feet is recommended on a survey grid up to the Giant Mascot boundary prior to any bulldozer work, as indicated on the accompanying plan.

The cost is estimated at \$1,000.00.

Any fractional claim areas that may be open in this area should be staked.

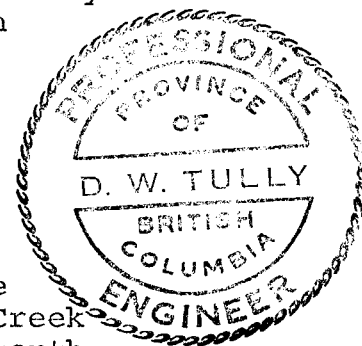
INTRODUCTION

This report is supplementary to a geological and geochemical report dated December 30, 1969 on a general geological and geochemical reconnaissance survey of the Kelso property at Hope, British Columbia, in the autumn of 1969.

LOCATION, ACCESS AND TOPOGRAPHY

The Swede anomaly area (zone I) is in the northwest part of the property, north of American Creek and some 3400 feet from the Giant Mascot property south boundary. The main anomalous zone appears to be developing on Swede claims 9, 11 and 42.

Logging roads from the Trans - Canada highway



near the Fraser River, a distance of about 12 miles, provide good truck travel.

The anomaly area is on a 25 - 30 degree south-facing slope between the 2500 - 3000 elevation.

WORK PERFORMED

Trenching

2000 lineal feet of bulldozer trenching was done by Catermole - Trethewey Ltd during April, 1970.

Geology and Mineralization

Altered, sericitized and chloritized basic rocks including diorite - gabbro, pyroxene - amphibole rock types are evident. Rusty oxidized zones are common.

The trend is north - northwest and the dips are steeply eastward. Shearing is developed along the north strike as well as in a nearly east - west direction.

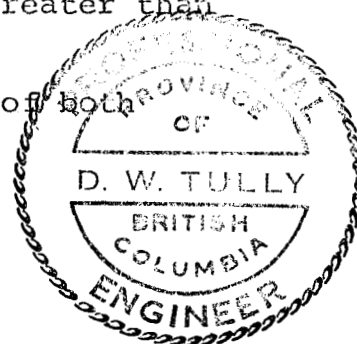
Pyrite occurs sparingly as a disseminated mineral in the rusty oxidized and sheared zones. Pyrrhotite occurs as scattered blebs and is evident in the areas of higher nickel - copper anomalous geochemical results.

Geochemical

41 geochemical soil samples were taken along the bulldozer trench profiles at 50 foot intervals in the B soil horizon by P. Connell and G. Slugit, employed by Kelso Explorations Ltd on June 1st, 1970.

Crest Laboratories, 1068 Homer Street, Vancouver, analyzed the samples by the atomic absorption method after screening to minus 80 mesh and $HClO_4$ - HNO_3 treatment. Assay certificate for Lot No. 216C of the copper - nickel results is at the end of this report (713 - 753). The assay results are plotted on an accompanying plan and contoured for copper (green) and nickel (red) greater than 200 ppm.

The results show a definite increase of both



copper and nickel in the soil up - slope across a width of 300 - 400 feet more or less normal to the rock formation trend. Geochemical soil sampling is proposed to test the extent of this anomaly along 20,000 feet of control line at 200 foot intervals on each line as shown on the accompanying plan scale 1" = 400'.

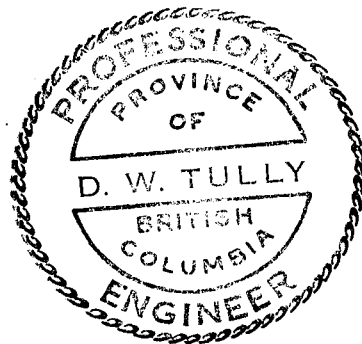
RECOMMENDATIONS

A work programme of geochemical soil sampling is recommended for the ground between the anomalous area on Swede claim 42 northward to the Giant Mascot boundary. This work programme should cover an area 3400 feet north-south and 2000 feet east-west. A north-south baseline and east-west control lines at 400 foot intervals with geochem soil samples at 200 foot spacings along the east-west lines is proposed.

If results in copper and nickel are obtained, a magnetometer survey could be done.

The cost is estimated as follows:

Two men on grid layout and soil sampling	\$ 450.00
Assaying	250.00
Travel and accommodation	50.00
Supervision and draughting	250.00
	<hr/>
Total	\$ 1000.00



Respectfully submitted,

Donald W. Tully

Donald W. Tully, P. Eng.

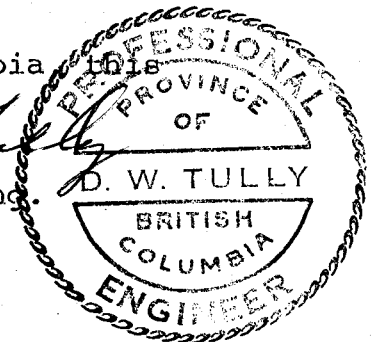
CERTIFICATE

I, Donald William Tully, do hereby certify, that,

1. I am a Consulting Geologist and Professional Engineer with offices at Suite 102, 2222 Bellevue Avenue, West Vancouver, B. C.
2. I am a graduate of McGill University, 1943, with a Bachelor of Science Degree.
3. I am a registered Professional Engineer in the Provinces of Ontario and British Columbia.
4. I have practiced my profession for twenty-five years.
5. I have no direct, indirect or contingent interest in the claims held by Kelso Explorations Ltd. (N.P.L.) or the securities of Kelso Explorations Ltd. (N.P.L.) nor do I intend to receive any interest.
6. This report dated June 12, 1970, is based on an examination on the ground made on April 13 and June 2, 1970. The work was performed under my direct supervision in the field during March, April, May and June, 1970.

DATED at West Vancouver, British Columbia, this
12th day of June, 1970

Donald W. Tully
Donald W. Tully, P.Eng.
Consulting Geologist



CREST LABORATORIES (B.C.) LTD.

B.C. REGISTERED ASSAYERS
INDUSTRIAL and RESEARCH CHEMISTS

1068 HOMER STREET
VANCOUVER 3, B.C.
June 8, 1970

Mr. D.J. Lally, P. Eng.
102 - 2222 - Bellevue Avenue
WEST VANCOUVER, B.C.

Lot No. 216 G: Geochemical Analysis for Copper and Nickel:

Mesh Size: -30
Analytical Method: Atomic Absorption
Digestion Method: HClO₄ - HNO₃

Sample Number:	Copper PPM	Nickel PPM	Sample Number:	Copper PPM	Nickel PPM
700	90	65	723	120	210
701	105	110	724	170	175
702	115	95	725	390	415
703	105	100	726	320	500
704	120	120	727	95	125
705	135	120	728	70	110
706	115	105	729	165	295
707	140	120	730	20	25
708	80	175	731	18	25
709	85	120	732	65	135
710	75	100	733	100	130
711	50	75	734	165	215
712	45	70	735	125	225
713	60	70	736	270	260
714	45	65	737	500	570
715	205	95	738	245	310
716	340	130	739	385	290
717	110	220	740	20	65
718	145	450	741	140	230
719	70	265	742	70	130
720	70	155	743	80	145
721	315	405	744	70	185
722	115	170	745	50	145

MILL LAKE CLAIMS

SWEDE CLAIMS

SWEDE CLAIMS

Mr. D.W. Tully,
 Lot No. 216 G
 June 8, 1970
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Sample Number:	Copper PPM	Nickel PPM	Sample Number:	Copper PPM	Nickel PPM
746	60	230	776	20	20
747	38	160	777	65	70
748	18	55	778	65	60
749	42	155	779	32	50
750	42	150	780	32	30
751	55	250	781	50	70
752	65	140	782	42	60
753	45	75	783	42	55
754	15	15	784	37	50
755	25	25	785	35	50
756	18	20	786	35	50
758	45	65	787	50	100
758	30	45	788	37	55
759	25	30	789	27	50
760	42	55	790	35	65
761	20	25	791	25	60
762	32	35	792	20	25
763	17	25	793	10	15
764	35	50	794	20	30
765	22	50	795	38	70
766	30	50	796	30	75
767	35	55	797	8	10
768	37	50	798	32	65
769	50	65	799	40	55
770	27	40	800	47	60
771	50	25	801	12	15
772	38	35	802	17	35
773	35	35	803	20	40
774	25	30	804	20	10
775	10	15	805	20	25

SWEDEN
CLAIMS

PJ
CLAIMS

Mr. D.W. Tully
Lot No. 216 G
June 8, 1970
Page 3...

Sample Number:	Copper ppm	Nickel ppm
806	28	45
807	20	35
808	32	40
809	28	40
810	33	50
811	27	40
812	47	70
813	50	80
814	57	45
815	20	35
816	15	25
817	15	25
818	27	40
819	20	25

Yours truly,

CREST LABORATORIES (B.C.) LTD.

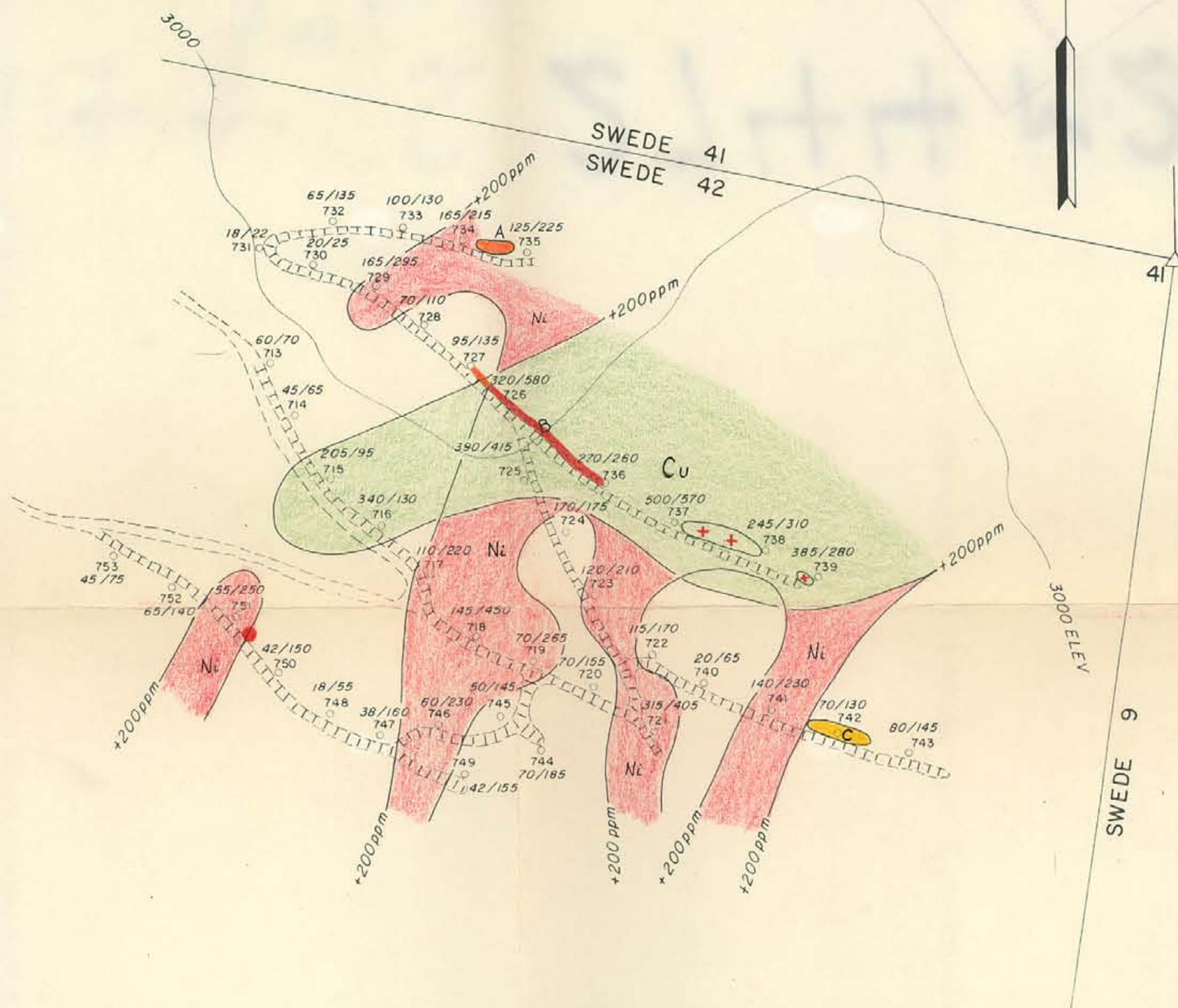
Bruce Graham

Bruce Graham
Chemist

BG/scb

KEY PLAN

1 in = 4 mi

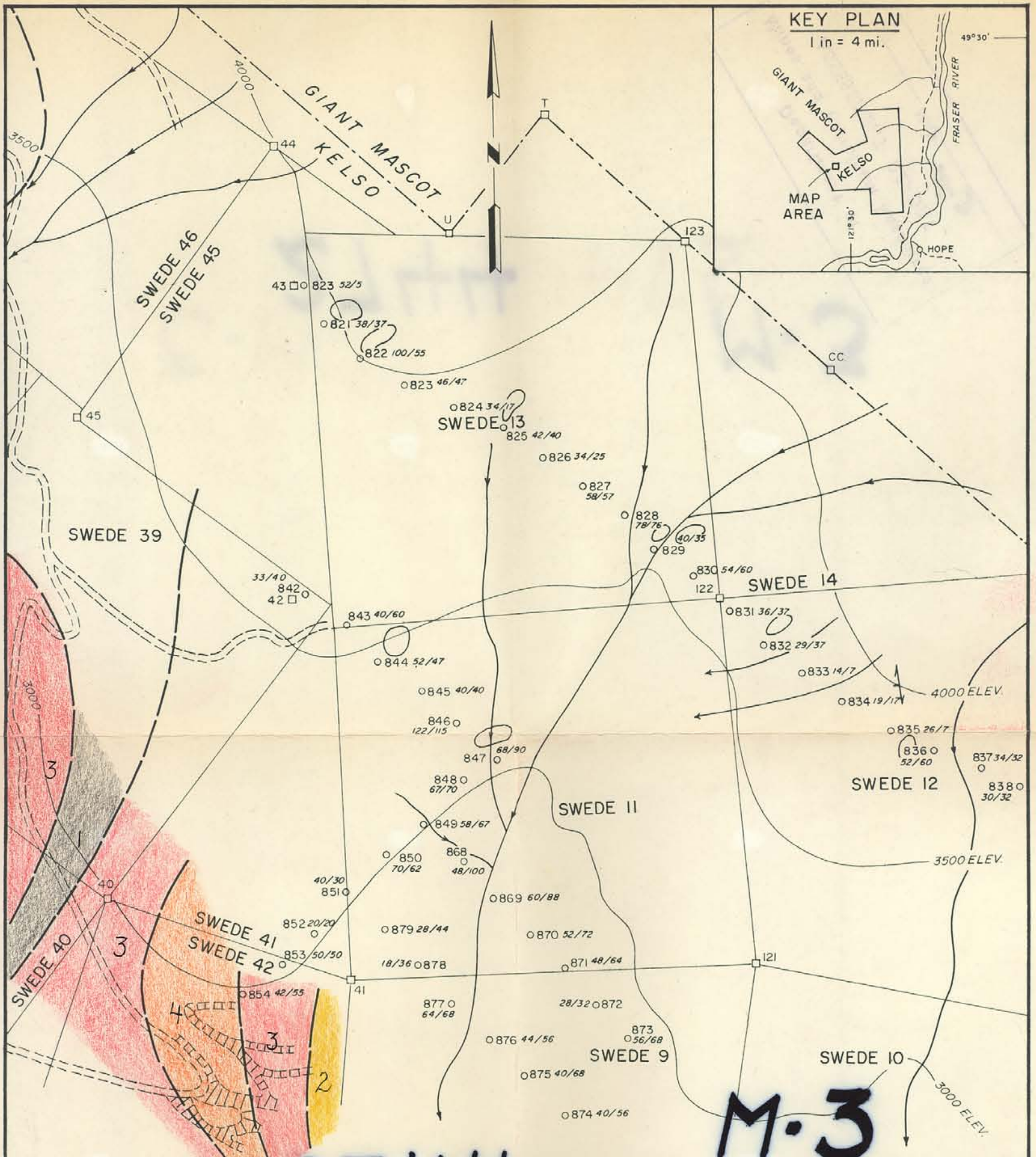


LEGEND

- LOGGING ROAD
- NEW BULLDOZER TRENCHING
- o 713 GEOCHEMICAL SOIL SAMPLE LOCATION
- cu / ni COPPER (Green) NICKEL (Red)
- STRIKE AND DIP OF SHEARING
- ~~~~~ FAULT
- GEOLOGICAL CONTACT
- A 737 PERIDOTITE (?) REDDISH ALTERED WITH METACRYSTS
- B 744 ++ DIORITE, METADIORITE, GABBRO
- C 736 GARNET, SCHIST

2744 M-2

HOPE, B. C.	
KELSO EXPLORATIONS LTD. (N.P.L.)	
GEOLOGY AND GEOCHEMICAL	
SWEDE CLAIM	
SCALE: 1" = 100'	
JUNE 1970 DONALD W. TULLY, P. Eng.	



LEGEND

- ==== LOGGING ROAD
- ==== NEW BULLDOZER TRENCHING
- CREEK
- - - - GEOLOGICAL CONTACT
- 4 737 PERIDOTITE (?), REDDISH ALTERED WITH METACRYSTS
- 3 744 DIORITE, METADIORITE - GABBRO
- 2 736 GARNET - SCHIST
- 1 747 HORNFELS
- 743 GRANITE
- GEOCHEMICAL SAMPLE *CU/NI*

2744

HOPE, B. C.

KELSO EXPLORATIONS LTD. (N.P.L.)

RECONNAISSANCE
GEOLOGY AND GEOCHEM.
SWEDE ZONE



MINING CLAIMS - SWEDE 9, 11, 12, 13, 14, 15, 41, 45,

SCALE: 1" = 400'

DONALD W. TULLY, P. Eng. 1970