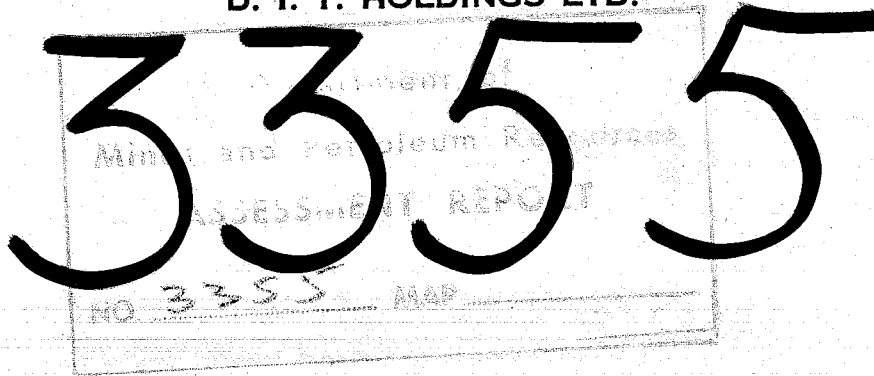


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WEST VANCOUVER, B. C.

TELEPHONE (604) 926-3715



Report On The
1970 Diamond Drill Program
and
Recent Geological & Geochemical Results

Swede 41, Bea and Mary G Claims
New Westminster Mining Division
Hope, B.C.

for

Kelso Explorations Ltd (N.P.L.)
470 Granville Street
Vancouver, B.C.

by

Donald W. Tully, P. Eng.

October 4, 1971

West Vancouver, B.C.

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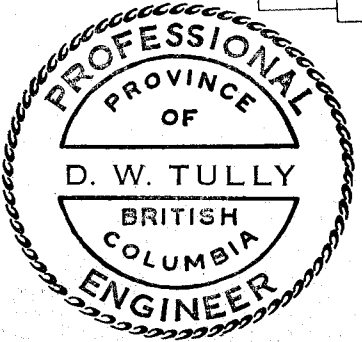
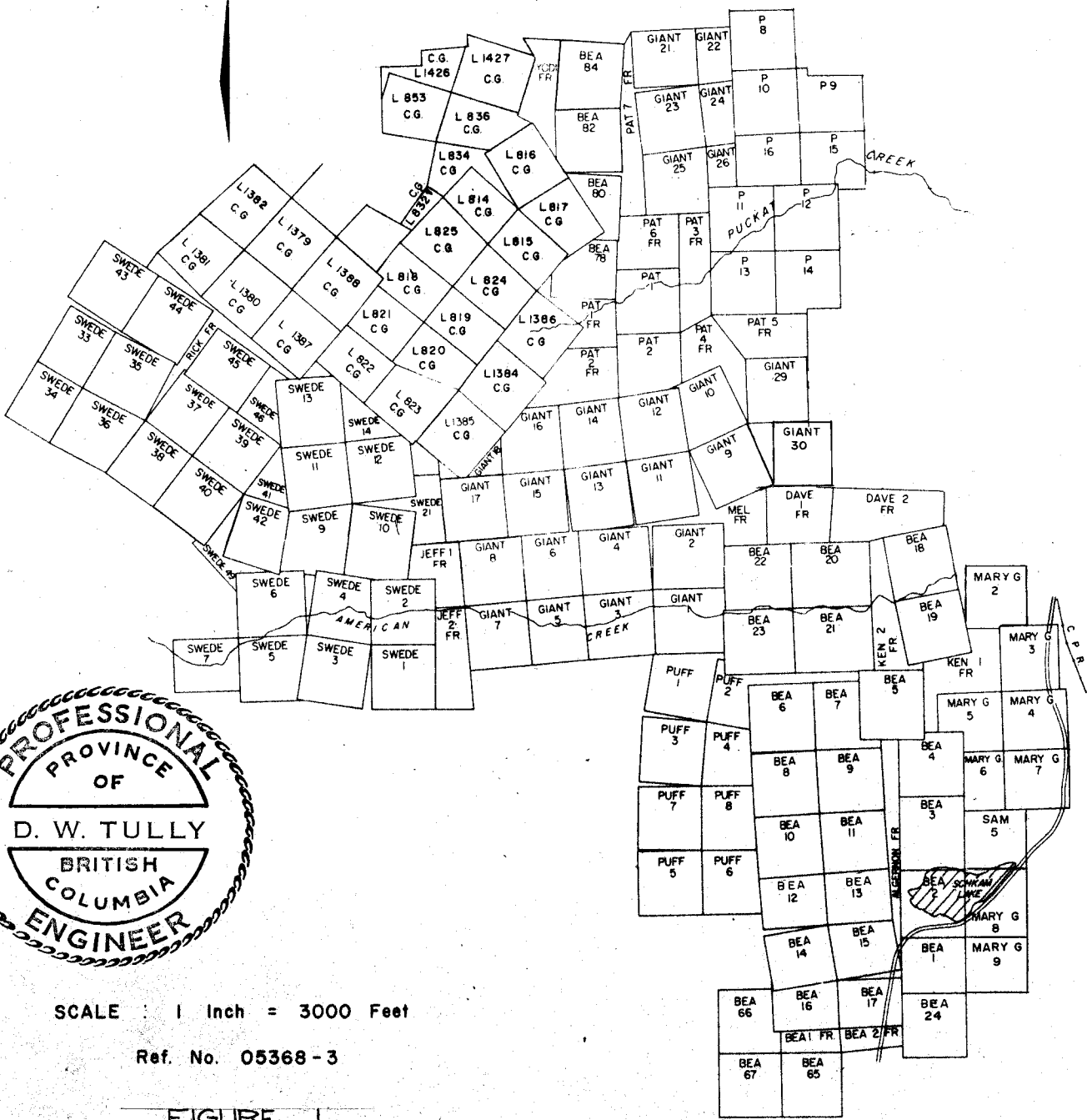
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- 2 Figure 2 - REGIONAL GEOLOGY - G.S.C. MAP 12-1969(In Pocket)
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Department of
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ASSESSMENT REPORT

NO. 3355 MAP #1



SCALE : 1 Inch = 3000 Feet

Ref. No. 05368-3

FIGURE 1

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SUMMARY

The Kelso claim group at Hope, British Columbia, adjoins the Giant Mascot Mine property. It is a nickel-copper prospect.

Three shallow diamond drill holes intersected a wide zone of low-grade copper-nickel sulphide mineralization in ultra-basic rocks on the Swede claims in the northwest part of the property.

Reconnaissance geological prospecting and limited geochemical soil sampling on the BEA and Mary G claim groups in the southeast part of the property did not uncover any new evidence of economic significance.

An aggressive program of detailed geochemical soil sampling along survey controlled picket lines with close geological mapping is recommended to delimit diamond drill targets in the BEA - Mary G claim area.

5000 feet of Bx wireline diamond drilling is also recommended to prove up this property.

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INTRODUCTION

This report reviews the results of a program of Bx wireline size core drilling during October - November, 1970 and limited geological - geochemical prospecting during the period August - September, 1971.

Diamond drilling was performed during the period October 31, 1970 through November 30, 1970.

PROPERTY, LOCATION, ACCESS, TOPOGRAPHY

136 mining claims comprise the Kelso property as follows:

Swede 1-7,9-14,21,33-46,49	Swede 8-50 Fractions	
Bea 1-24,54,65-67,78,80,82,84	Bea 1,2	"
Pat 1,2	Pat 1-7	"
Giant 3-18,21-26,29,30	Yodi	" (1)
P 8-16	Ken 1,2	"
Puff 1-8	Mel	" (1)
Mary G 2-9	Rick	" (1)
Sam 5	Dave 1,2	"
	Jeff 1-3	"
	Algernon	" (1)

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The property is located about 4 miles north of Hope, British Columbia on the west side of the Trans-Canada Highway. The claims adjoin the Giant Mascot Mine property on the south.

Access is by logging roads from the Trans-Canada Highway.

Rugged topography varies from 500 - 4500 a.s.l. over the claim group.

PREVIOUS DEVELOPMENT - REFERENCES

Although complete records are not available probably no more than a total of 3000 feet of shallow diamond drilling has been done on this property. Geological, geochemical and geophysical work on record since 1966 is as follows:

1. Supplementary Geological and Geochemical Report, November 23, 1970, by Donald W. Tully, P. Eng.
2. G.S.C. Paper 69-47, Hope Map-Area, (W $\frac{1}{2}$)
3. G.S.C. Map 737A
4. Report on a Geological and Geochemical Reconnaissance Survey over part of the PAT, MARY-G, MILL, GIANT, SWEDE, BEA, P, PUFF and LYD Mineral Claim Groups, Kelso Explorations Ltd (N.P.L.) dated December 30, 1969, by Donald W. Tully, P. Eng.
5. Swede Zone - Reconnaissance Geochemical and Geological Survey dated June 12, 1970, by Donald W. Tully, P. Eng.

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6. Swede Zone - Supplementary Report on a Geological, Geochemical and Magnetometer Survey over part of Swede Claims 4,6,9,11,41,42,49 dated November 17, 1970, by Donald W. Tully, P. Eng.
7. Mill Creek Zone, Reconnaissance Geochemical and Geology Survey dated June 12, 1970, by Donald W. Tully, P. Eng.
8. Schkam Lake Zone, Reconnaissance Magnetometer, Geochemical and Geology Survey dated June 12, 1970, by Donald W. Tully, P. Eng.
9. Report on the Geological, Geophysical and Geochemical Surveys by J.A. Mitchell, P. Eng., dated October 22, 1969
10. Report on the Magnetic Prospecting for Dunite Pipes on the Swede Mineral Claims of Kelso Explorations Ltd by Ian F. Morton, dated July 3, 1969
11. Reconnaissance Magnetometric Survey Report on the BEA Group Mineral Claims by J.A. Mitchell, P. Eng., dated November, 1968
12. Gravity Surveys in the Hope Area of British Columbia over ultra-basic rocks with nickel, pyrrhotite ore bodies by Calbert B. Selmsler, dated January, 1970
13. Geological Report on the BEA Claims of Kelso Explorations Ltd by Ian F. Morton, not dated
14. Geophysical Report, Gravity Survey Giant No. 1 and BEA No. 23 Claims by C.B. Selmsler, dated December 9-18, 1968
15. Appendix A to accompany Geophysical Report on the Giant No. 1 and BEA No. 23 Claims by C.B. Selmsler, P. Eng., dated August 18, 1969
16. Gravity Survey of Swede 5,6, and 7 Mining Claims on American Creek by C.B. Selmsler, P. Eng., dated August 27,28 and September 11, 1969
17. Comparison Survey of Giant Mascot Mines Gravity Survey by C.B. Selmsler, P. Eng., dated August 23-25, 1969
18. Geophysical Report, Gravity Survey of Giant 25 Mineral Claim by C.B. Selmsler, dated August 4-8, 1969

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19. Reconnaissance Geological, Geochemical and Geophysical Report on the Mill Group of Claims No. 1-8 by W.K. Lee, P. Eng., dated July 18, 1968
20. Geophysical Report on the Electro-Magnetic Orientations Survey on Giant No. 1 and BEA No. 23 Claims near American Creek by D.R. Cochrane, P. Eng., dated June 7, 1968
21. Geophysical and Geochemical Report on the BEA and Giant Claims by W.K. Lee, P. Eng., dated May 7, 1968
22. Geophysical Report on the Airborne Magnetometer Survey of the BEA, GIANT, P, and MILL Claims by D.R. Cochrane, P. Eng., dated August 18, 1967
23. Supplement to the Geophysical Report on the Airborne Magnetometer Survey by D.R. Cochrane, P. Eng., dated September 5, 1967
24. Supplementary Geophysical Report No. 2 by D.R. Cochrane, dated April 11, 1968
25. Report on the Properties of Kelso Explorations Ltd by J.P. Elwell, dated December 14, 1966

GEOLOGY

Three lithological units are recognized over the property.

1. A Cretaceous intrusive complex with facies grading from granite through pyroxenite-peridotite in composition.
2. Metamorphics-amphibolite, garnet-schists and migmatitic equivalents of Paleozoic volcanics, sediments and limestone horizons.
3. Conglomerate, limestone, shale units probably of late Cretaceous or early Tertiary age.

Intrusives occupy the western and southwestern parts of the property. Ultra-basic phases occur in the

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marginal areas of the complex as at the Swede and Schkam Lake Zones.

Metamorphic rocks are common in the northern part of the property surrounding the Giant Mascot Mines claim boundary.

Sediments and calcareous rocks occur in those parts of the property adjacent to the Fraser River. Conglomerate is abundant.

The basic structural pattern has been established through repeated orogenic movements. A north-south trend with local directional deviations due to drag-folding is predominant.

A major fault zone known as the Hope Fault trends north through the property. It appears to have influenced the Schkam Lake and Mill Creek Zones which are in close proximity with resultant intense rock deformation.

The Swede Zone lies near an embayment in the main intrusive contact in association with pyroxenite and dikes of peridotite.

It may be of interest to note that the Kelso property is in close proximity to the major junction of the Cascade Mountain System to the south and the Coast Range Mountains to the north.

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MINERALIZATION - GENERAL

Two types of nickel mineralization occur.

Nickeliferous pyrrhotite occurs disseminated with chalcopyrite in fractured pyroxenite and peridotite in the Swede Zone. It is also reported from previous diamond drilling in ultra-basic rock in the Schkam Lake Zone.

An oxide (?) of nickel was located in an intrusive silicate-siderite rock in the Schkam Lake Zone. Preliminary tests on this mineral by Dr. G.A. Gower at the University of British Columbia were inconclusive. Surface expression suggests limited potential.

No economic mineralization has been located to date.

DIAMOND DRILL RESULTS

1120 feet of Bx wireline core was diamond drilled in three holes on Swede claims #9 and #42 in the northwest part of the property and about 4500 feet south of the Giant Mascot Mine property (Figure 5). Core recovery was excellent ($\pm 99\%$).

Values ranging between 0.09% nickel and 0.02% copper over 4.0 feet to 0.01% nickel and 0.01% copper over

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30 feet were intersected in pyroxenite and peridotite.

The presence of pyrrhotite-chalcopyrite mineralization in surface fractures does persist below surface. The pyrrhotite mineralization is weakly nickeliferous.

Deep diamond drilling to at least 750 - 1000 feet vertically may intersect better grade mineralization. For example, one ten-foot section between 388 - 398 feet in diamond drill hole #3-70 intersected 0.06% nickel and 0.01% copper.

Substantial widths of scattered pyrrhotite, pyrite and chalcopyrite mineralization occurs in the diamond drill holes as follows:

<u>D.D. Hole #</u>	<u>Footage</u>
2-1970	30-92 112-232
3-1970	110-190 346-398

GEOLOGICAL AND GEOCHEMICAL RESULTS

A program of geological mapping and geochemical sampling was performed during the period August 23 through September 5, 1971.

57 geochemical soil samples were taken. Analyses were done at Crest Laboratories (B.C.) Ltd. Scattered

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values in nickel varying up to 700 parts per million were obtained. Copper values were not encouraging.

Results of the geological prospection and geo-chemical soil sampling as shown on Figures 4 and 5 confirm the former conclusions that anomalous areas for nickel do exist in the area north and east of Schkam Lake on the BEA and Mary G claims. In order to delimit a target area for diamond drilling survey control lines should be established at 400-foot intervals. Soil sampling and geological mapping should be done under controlled conditions.

Examination of a tunnel on claim Mary G #4 was mapped and tested with an ultra-violet lamp which yielded negative results.

Soil samples were taken from the "B" soil horizon in the field. In the laboratory samples were screened to -80 mesh, treated with perchloric and nitric acid and analyzed by the atomic absorption method.

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CONCLUSIONS

On Swede claims #9, #41 and #42 pyrrhotite, pyrite and chalcopyrite mineralization occurs in scattered grains over substantial widths in ultra-basic rock. 3000 feet of diamond drilling is recommended to test this zone at depth with three holes for better grade nickel-copper mineralization comparable to what is now under exploration on the adjacent Giant Mascot Mine property.

The discovery of a nickel-bearing oxide (?) zone on claim BEA #3 as a result of detailed geochemical soil sampling in 1970 points up the value of this method. An associated magnetic anomalous coincident area was also noted. A program of detailed geochemical soil sampling, geological mapping, magnetometer surveying with 2000 feet of exploratory diamond drill holes on the nickel zone on BEA #3 and #4 claims is warranted.

RECOMMENDATIONS - WORK PROGRAM

Survey controlled geochemical soil sampling, geological mapping and magnetometer surveying is recommended on Mary G claims 4-7. East-west picket lines at 200-foot intervals with sample stations every 100 feet along the control picket lines are recommended as shown on Figure 5.

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Integration of this recommended exploration work should provide a diamond drill target.

Two diamond drill holes totaling 2000 feet of drilling (Figure 4) are recommended to test the nickeliferous oxide (?) zone on claim BEA #3. Previously a diamond drill hole reportedly put down by Impad Holdings Ltd is believed to have obtained an intersection carrying low values in nickel over appreciable widths at the north shore of Schkam Lake.

3000 feet of deep diamond drilling is recommended on the zone of ultra-basic rocks in the area of Swede claims #9, #41 and #42 to test for greater widths and grade of nickel-copper mineralization (Figure 5).

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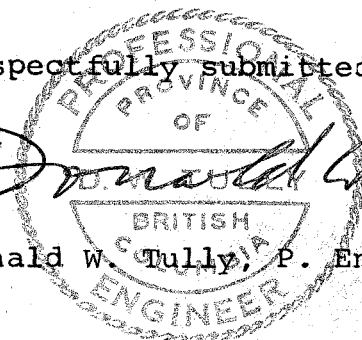
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ESTIMATED COSTS

Line-cutting (10 line miles x \$125/mile).....	\$ 1,250.00
Magnetometer Survey (520 station readings).....	1,000.00
Geochemical soil sampling (520 samples x \$4.00) ..	2,080.00
Geological mapping	500.00
Diamond drilling (5000' Bx size core x \$8.50/ft).	42,500.00
Mobilization and demobilization	2,000.00
Engineering, Assaying, Travel	2,500.00
Contingency @ 10%	<u>5,183.00</u>
	\$ 57,013.00

Respectfully submitted,


Donald W. Tully

Donald W. Tully, P. Eng.

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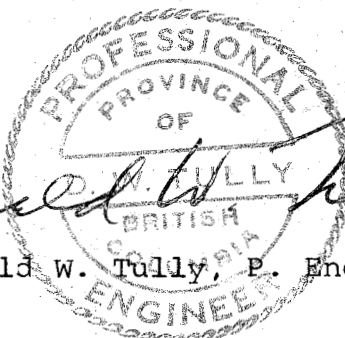
TELEPHONE (604) 926-3715

CERTIFICATE

I, Donald W. Tully, do hereby certify that:

1. I am a Consulting Geologist and Professional Engineer with offices at 102-2222 Bellevue Avenue, West Vancouver, British Columbia.
2. I am a graduate of McGill University, 1943, with the Degree of Bachelor of Science.
3. I am a Registered Professional Engineer in the Provinces of British Columbia and Ontario.
4. I have practised my profession for twenty-five years.
5. I have no direct, indirect or contingent interest in the shares of Kelso Explorations Ltd (N.P.L.) or the claims of Kelso Explorations Ltd (N.P.L.) nor do I intend to receive any interest.
6. This report dated October 4, 1971 is based on a personal field examination on the property of rock outcrops and diamond drill cores on October 7, 12, 18, November 29, December 7, 1970 and September 1, 1971.

DATED at West Vancouver, British Columbia, this 4th day of October, 1971

A circular seal for a Professional Engineer in the Province of British Columbia. The seal contains the text "PROFESSIONAL OF PROVINCE OF BRITISH COLUMBIA ENGINEER" around the perimeter. In the center, the name "DONALD W. TULLY" is stamped. A handwritten signature "Donald W. Tully" is written across the seal.

Donald W. Tully, P. Eng.

KELSO EXPLORATION LTD.
470 Granville Street
Vancouver 2, B.C.

D.D. Hole No. 1-70	Date started	October 31, 1970
Dip : Minus 45 degrees	Date completed:	November 3, 1970
Direction : Southeast	Drilled by:	Kendrick Drilling 2748 St. Catherines St. Vancouver, B.C.
Depth : 272 feet		
Location : Claim Swede 9 Line 420 N 570 E	Hole log by:	Donald W. Tully, P. Eng.
	Core Size	Bx wireline

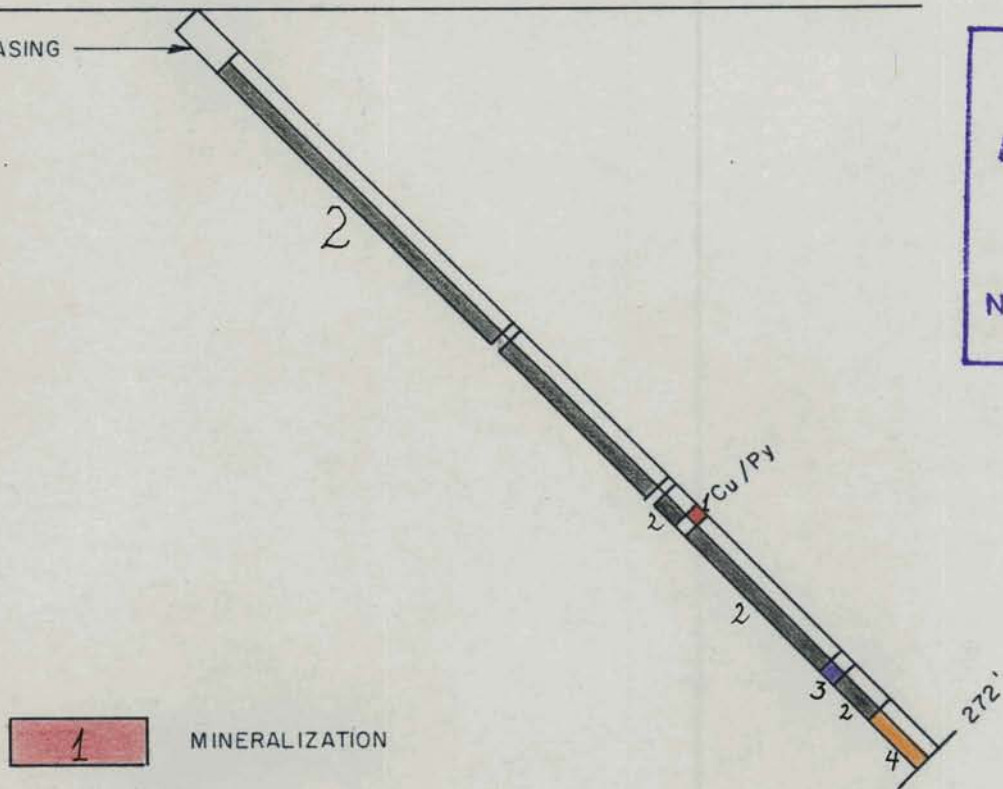
<u>Footage</u>	<u>Description</u>	<u>Sample No.</u>	<u>Width</u>	<u>%Ni</u>	<u>%Cu</u>
0 - 15.5'	- Casing reported.				
0 - 10.5'	- No core.				
10.5 - 38.0'	- Paragneiss, garnet-rich, with bands of biotite and sericite, rusty and fractured along water courses.				
38.0 - 43.0'	- As above and banded at 60 degrees to core-axis.				
43.0 - 116.0'	- Paragneiss, garnet-rich with bands of biotite and sericite, local banding at 75', 85'.				
116.0 - 118.0'	- Greenish base, sprinkled with garnets.				
118.0 - 173.0'	- Paragneiss, garnet-rich, bands of biotite and sericite and scattered fine quartz veinlets, grains of pyrite at 134'.				
173.0 - 174.0'	- Quartz veining with grains of pyrite and pyrrhotite.				
174.0 - 183.0'	- Paragneiss as above.				
183.0 - 187.0'	- " " " with fine pyrite and chalcopyrite on fracture faces at 183' and 186'.				
187.0 - 236.0'	- Paragneiss as above with banding at 210'.				
236.0 - 241.0'	- Pyroxenite dyke.				

<u>Footage</u>	<u>Description</u>	<u>Sample</u> <u>No.</u>	<u>Width</u>	<u>%Ni</u>	<u>%Cu</u>
241.0 - 254.0'	- Paragneiss as above.				
254.0 - 272.0'	- Gabbro phase.				

END OF HOLE

COLLAR 1-70

CASING



- 1 MINERALIZATION
- 2 PARAGNEISS
- 3 PYROXENITE
- 4 GABBRO

CORE SIZE - Bx WIRELINE

**Department of
Mines and Petroleum Resources
ASSESSMENT REPORT**

NO. 3355 MAP _____



HOPE, B.C.		
KELSO EXPLORATIONS LTD. N.P.L.		
SECTION LOOKING NORTH		
1" = 50'	DONALD W. TULLY, P. Eng.	OCT. 4, 1971

KELSO EXPLORATIONS LTD (N.P.L.)
470 Granville Street
Vancouver 2, B. C.

D.D. Hole #	- 2-70	Date started:	November 8, 1970
Dip	- Minus 45 degrees	Date completed:	November 16, 1970
Direction	- West	Drilled by:	Kendrick Drilling
Depth	- 450.0		Vancouver, B.C.
Location	- Claim Swede #9	Hole log by:	Donald W. Tully, P.Eng.
	Line 980 N	Core Size:	Bx wireline
	700 E		

<u>Footage</u>	<u>Description</u>	<u>Sample No.</u>	<u>Width</u>	<u>%Ni</u>	<u>%Cu</u>
0 - 20'	- Casing reported.				
0 - 8'	- No core.				
8 - 22'	- Pyroxenite, feldspathic phase, highly fractured with rusty water seams.				
22 - 30'	- Pyroxenite, biotite rich phase (bronzitite), fresher and massive.				
30 - 34'	- Peridotite dyke, fine pyrrhotite and pyrite (5% sulphides).	26001	4.0'	.01	
34 - 39'	- Peridotite dyke, small quartz-calcite veinlets, fine pyrrhotite (3% sulphides).	26002	5.0'	.01	
39 - 43'	- Pyroxenite, peridotite dykes 2-4" wide with 1-2% pyrrhotite and pyrite.	26003	4.0'	.01	
43 - 65'	- Pyroxenite, brown biotite in crystals up to 8 mm. across (bronzitite).				
65 - 70'	- Pyroxenite, fine pyrrhotite (1%) with traces chalcopyrite.	26004	5.0'	.01	.01
70 - 75'	- Pyroxenite, fine pyrrhotite (1%) with traces chalcopyrite.	26005	5.0'	.02	.01
75 - 92.5'	- Pyroxenite with minor splashes of chalcopyrite.				
- 93.0'	- Peridotite dyke, barren.				
93 - 101.5'	- Pyroxenite, brown biotite phase (bronzitite phase).				
- 102'	- Paragneiss inclusion with garnets.				

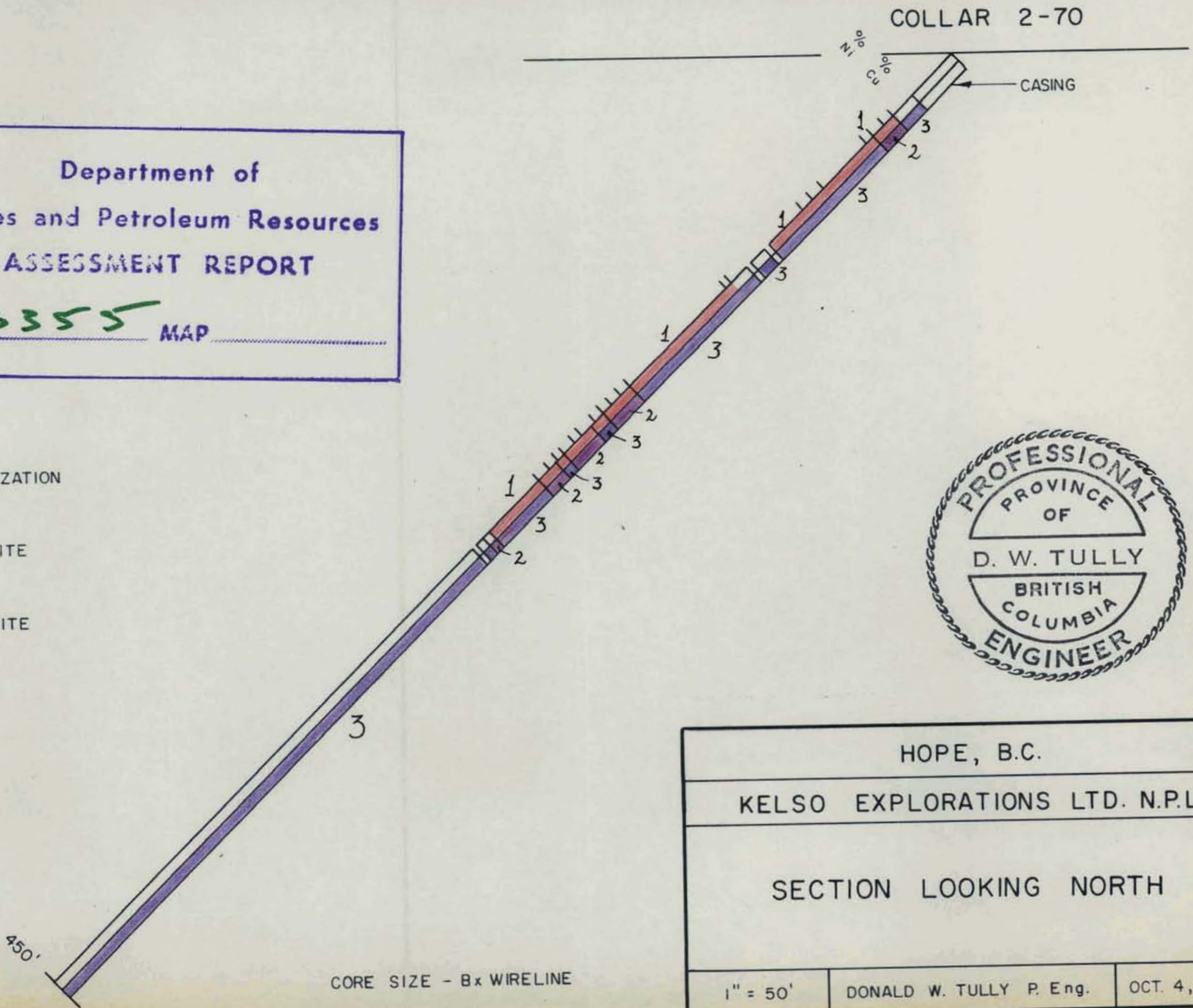
<u>Footage</u>	<u>Description</u>	<u>Sample No.</u>	<u>Width</u>	<u>%Ni</u>	<u>%Cu</u>
102 - 112'	- Pyroxenite, paragneiss inclusion with garnets.				
112 - 114'	- Pyroxenite, as above with disseminated pyrite and pyrrhotite (1%) and one massive seam at 113'.	26006	2.0'	.01	Tr
114 - 162'	- Pyroxenite, as above (bronzitite phase).				
162 - 167'	- Peridotite, 5% fine pyrite and pyrrhotite.	26007	5.0'	.01	.01
167 - 171.4'	- Peridotite, 5% fine pyrite and pyrrhotite.	26008	4.4'	.01	.02
171.4 - 175'	- Peridotite, 1% fine pyrite and pyrrhotite.	26009	3.6'	Tr	Tr
175 - 180'	- Pyroxenite, as above (bronzitite phase).	26010	5.0'	.01	
180 - 185'	- Peridotite, 1% fine pyrite and pyrrhotite.	26011	5.0')	Core
185 - 189'	- Peridotite, 1% fine pyrite and pyrrhotite.	26012	4.0')	Not
189 - 194'	- Peridotite, 1% fine pyrite and pyrrhotite.	26013	5.0')	Split
194 - 197'	- Pyroxenite, as above (bronzitite phase).	26014	3.0')	For
197 - 202'	- Peridotite, 1% fine pyrite and pyrrhotite.	26015	5.0')	Assay
202 - 207'	- Peridotite, 1% fine pyrite and pyrrhotite.	26016	5.0')	
207 - 232'	- Pyroxenite, as above (bronzitite phase).				
232 - 234'	- Peridotite dyke, barren.				
234 - 237'	- Pyroxenite, coarse grained (bronzitite phase).				
237 - 238'	- Peridotite dyke.				
238 - 269'	- Pyroxenite, coarse grained (bronzitite phase).				

<u>Footage</u>	<u>Description</u>
269 - 274'	- Pyroxenite, highly fractured in a sheared zone.
274 - 327'	- Pyroxenite, coarse-grained, (bronzitite phase).
327 - 331'	- Pyroxenite, fine-grained, (bronzitite phase).
331 - 450'	- Pyroxenite, coarse-grained, (bronzitite phase).

End Of Hole

Department of
 Mines and Petroleum Resources
ASSESSMENT REPORT
 NO. 3355 MAP

- 1 MINERALIZATION
- 2 PERIDOTITE
- 3 PYROXENITE



HOPE, B.C.		
KELSO EXPLORATIONS LTD. N.P.L.		
SECTION LOOKING NORTH		
1" = 50'	DONALD W. TULLY P. Eng.	OCT. 4, 1971

KELSO EXPLORATIONS LTD.
 470 Granville Street
 Vancouver 2, B.C.

D.D. Hole No: 3-70 Date started: November 18, 1970
 Dip : Minus 45 degrees Date completed: November 30, 1970
 Direction : East Drilled by: Kendrick Drilling
 Vancouver, B.C.
 Depth : 398 feet Hole log by: Donald W. Tully, P. Eng.
 Location : Claim Swede 42
 Line 920 N Core Size Bx wireline
 50 W

<u>Footage</u>	Description	<u>Sample No.</u>	<u>Sample Width</u>	<u>Assay</u>	
				<u>%Ni</u>	<u>%Cu</u>
0 - 15'	- Casing reported.				
0 - 6'	- No core.				
6 - 10'	- Pyroxenite, medium grained, disseminated fine pyrite and pyrrhotite.	25976	4'	0.09	0.02
10 - 20'	- As above with 3 mm. pyrrhotite bleb at 13'.	25977	10'	.10	.03
20 - 23	- As above.				
23 - 28'	- Hornblendite, dark grey to black with grey metacrysts? Very blocky, sparse mineral (2' ground core).				
28 - 30'	- As above, grey quartz veining, rusty and blocky.				
(20 - 30')	- One sample.	25978	10'	.07	.02
30 - 43'	- As above, sparse pyrite, blocky and rusty to 34 feet.				
43 - 53'	- As above with increase in grey metacrysts?, sparse disseminated pyrite and pyrrhotite.				
53 - 110'	- Grading to gabbro, very sparse pyrite, fine quartz veinlets between 85-93'.				
110 - 120'	- Gabbro, with abundant hornblende disseminated pyrite, sparse pyrrhotite and chalcopyrite.	25979	10'	.03	.01

<u>Footage</u>	<u>Description</u>	<u>Sample No.</u>	<u>Sample Width</u>	<u>Assay</u>	
				<u>%Ni</u>	<u>%Cu</u>
120 - 124'	- Gabbro, with abundant hornblende disseminated pyrite, sparse pyrrhotite and chalcopyrite.	25980	4'	.02	.01
124 - 152'	- Pyroxenite, medium grained, sparse pyrite blebs.				
152 - 162'	- Peridotite dike, fine-grained with dunite zones.				
162 - 168'	- Pyroxenite				
168 - 182'	- Peridotite, fine disseminated pyrite and fine seams with traces chalcopyrite at 182' and 187'; also quartz stringers, very blocky 178-182'.				
(155-160)	- Sample	25982	5.0'	Tr	Tr
(160-170)	- Sample	25983	10.0'	.01	Tr
(170-180)	- Sample	25984	10.0'	.01	.01
(180-190)	- Sample	25985	10.0'	.01	.01
(190-195)	- Sample	25986	5.0'	Tr	Tr
182 - 195'	- Peridotite - dunite, disseminated sparse pyrrhotite and pyrite.				
*195-230'	- Gabbro, altered with sparse pyrite and pyrrhotite.				
*230 - 231'	- Gabbro with disseminated pyrite in inclusion area.	25987	1.0'	.01	.02
*231 - 255'	- Gabbro with scattered pyrite grains.				
255 - 312'	- Gabbro-peridotite and fine grains pyrite.				
312 - 319	- Garnetiferous inclusion.				
319 - 329'	- Phase of pyroxenite.				
329 - 330'	- Dunite dyke.				
330 - 346'	- Phase of pyroxenite.				
346 - 388'	- Pyroxenite, coarse grained with sparse grains of pyrrhotite.				
388 - 398'	- As above.	25981	10.0'	0.06'	0.01'

End of Hole

COLLAR
3-70

CASING

% Ni .09 .10 .07
% Cu .02 .03 .02

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. 3355 MAP



- 1 MINERALIZATION
- 2 PERIDOTITE
- 3 PYROXENITE
- 4 HORNBLENDITE
- 5 GABBRO

CORE SIZE - Bx WIRELINE

DUNITE DIKE

398' .06 .01

HOPE, B.C.		
KELSO EXPLORATIONS LTD. N.P.L.		
SECTION LOOKING NORTH		
1" = 50'	Donald W. Tully P. Eng.	OCT. 4, 1971

Sept. 10, 1971

Kaiso Explorations Ltd.,
411 - 470 Granville Street,
Vancouver, B.C.

Lab No. 678G: Geochemical analysis for copper, zinc and nickel

Mesh Size: - 80
Analytical Method: Atomic Absorption
Digestion Method: $\text{HClO}_4 + \text{HNO}_3$

Sample Marked:	Copper ppm	Zinc ppm	Nickel ppm	Sample Marked:	Copper ppm	Zinc ppm	Nickel ppm
1000	35	83	62	1025	29	69	60
1001	29	87	67	1026	24	85	50
1002	25	100	72	1027	19	56	46
1003	26	90	70	1028	34	73	70
1004	28	225	73	1029	24	31	88
1005	50	85	65	1030	29	46	76
1006	33	98	65	1031	41	90	75
1007	47	78	100	1032	43	115	60
1008	31	114	78	1033	35	140	54
1009	108	107	107	1034	68	118	58
1010	35	98	71	1035	27	82	58
1011	28	140	92	1036	30	92	67
1012	26	103	68	1037	26	83	60
1013	37	64	57	1038	23	99	52
1014	35	108	78	1039	41	128	63
1015	57	120	360	1040	23	108	57
1016	26	98	122	1041	26	91	62
1017	35	160	50	1042	25	160	55
1018	28	108	77	1043	27	90	43
1019	23	79	65	1044	31	91	53
1020	30	80	66	1100	48	128	42
1021	24	80	62	1101	67	360	54
1022	31	61	108	1102	97	425	41
1023	20	77	87	1103	85	157	700
1024	41	73	73	1104	62	148	235

Halso Exploration Ltd.,

Lab No. 678G

Sept. 10, 1971

Page 2 ...

Sample Marked:	Copper ppm	Zinc ppm	Nickel ppm
1105	60	275	385
1106	86	140	135
1107	87	300	100
1108	47	93	63
1109	26	142	80
1110	43	96	72
1111	57	275	65

Yours truly,

CREST LABORATORIES (B.C.) LTD.,

F.C. Burgess
F.C. Burgess

Chief Assayer

CREST LABORATORIES LTD.

7911 ARGYLL ROAD
EDMONTON 82, ALBERTA
PHONE 469-2391

CREST LABORATORIES (B.C.) LTD.
1066 HOMER STREET
VANCOUVER 3, B.C.
PHONE 658-8526

CERTIFICATE OF ASSAY

TO Kelso Explorations Ltd.

411 - 470 Granville Street

Vancouver, B.C.

December 14, 1970

Lab. No. 2089

I hereby certify THAT THE FOLLOWING ARE THE RESULTS OF ASSAYS MADE BY US UPON THE HEREIN DESCRIBED SAMPLES.

MARKED	COPPER PERCENT	NICKEL PERCENT	MARKED	PERCENT	PERCENT	MARKED	PERCENT	PERCENT
25982c	Trace	Trace						
25983c	Trace	0.01						
25984c	0.01	0.01						
25985c	0.01	0.01						
25986c	Trace	Trace						
25987c	0.02	0.01						

NOTE:

Rejects Retained One Month
Pulps Retained Three Months
Unless Otherwise Arranged.

[Signature]
Registered Assayer; Province of British Columbia

CREST LABORATORIES (B.C.) LTD.

1068 HOMER STREET
VANCOUVER 3, B.C.
PHONE 688-8586

CREST LABORATORIES LTD.
7911 ARGYLL ROAD
EDMONTON 82, ALBERTA
PHONE 469-2391

CERTIFICATE OF ASSAY

TO Kelso Explorations Ltd.

December 3, 1970

411 - 470 Granville Street

Lab No. 2044

VANCOUVER, B.C.

I hereby certify THAT THE FOLLOWING ARE THE RESULTS OF ASSAYS MADE BY US UPON THE HEREIN DESCRIBED SAMPLES.

MARKED	COPPER	NICKEL	MARKED	PERCENT	PERCENT	MARKED	PERCENT	PERCENT
	PERCENT	PERCENT		PERCENT	PERCENT		PERCENT	PERCENT
25976 C	0.02	0.09						
25977 C	0.03	0.10						
25978 C	0.02	0.07						
25979 C	0.01	0.03						
25980 C	0.01	0.02						
25981 C	0.01	0.06						

NOTE:

Rejects Retained One Month
Pulps Retained Three Months
Unless Otherwise Arranged.

F. Burgess

Registered Assayer; Province of British Columbia

CREST LABORATORIES LTD.

7911 ARGYLL ROAD
EDMONTON 82, ALBERTA
PHONE 469-2391

CREST LABORATORIES (B.C.) LTD.
1055 HOMER STREET
VANCOUVER 3, B.C.
PHONE 688-8586

CERTIFICATE OF ASSAY

TO Kelso Explorations Ltd.

411 - 470 Granville Street

Vancouver, B.C.

November 15, 1970

Lab. No. 1972

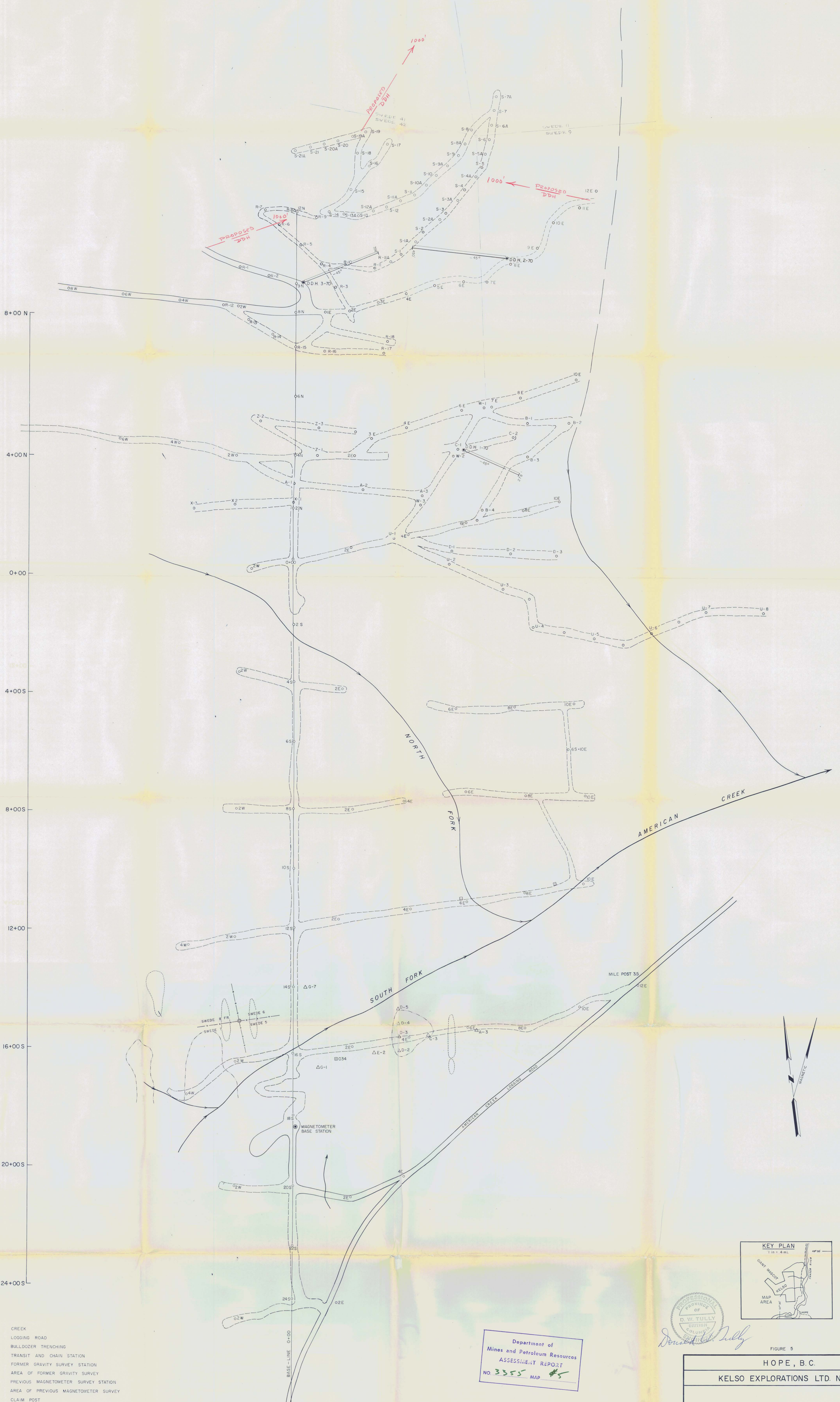
I hereby certify THAT THE FOLLOWING ARE THE RESULTS OF ASSAYS MADE BY US UPON THE HEREIN DESCRIBED SAMPLES.

MARKED	COPPER	NICKEL	MARKED	PERCENT	PERCENT	MARKED	PERCENT	PERCENT
	PERCENT	PERCENT		PERCENT	PERCENT		PERCENT	PERCENT
26001c	---	0.01						
26002c	---	0.01						
26003c	---	0.01						
26004c	0.01	0.01						
26005c	0.01	0.02						
26006c	Trace	0.01						
26007c	0.01	0.01						
26008c	0.02	0.01						
26009c	Trace	Trace						
26010c	---	0.01						

NOTE:

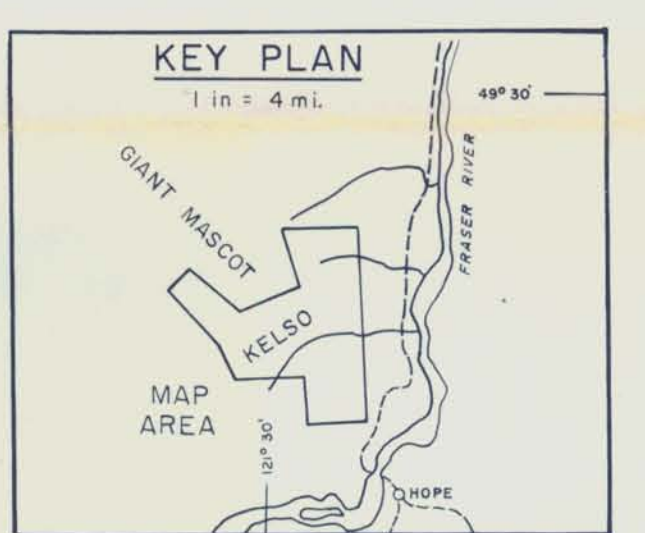
Rejects Retained One Month
Pulps Retained Three Months
Unless Otherwise Arranged.

[Signature]
Registered Assayer, Province of British Columbia



LEGEND

- CREEK
- LOGGING ROAD
- BULLDOZER TRENCHING
- TRANSIT AND CHAIN STATION
- FORMER GRAVITY SURVEY STATION
- AREA OF FORMER GRAVITY SURVEY
- PREVIOUS MAGNETOMETER SURVEY STATION
- AREA OF PREVIOUS MAGNETOMETER SURVEY
- CLAIM POST



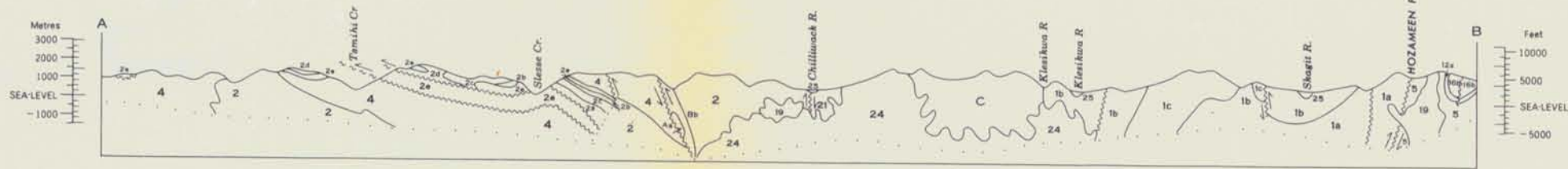
Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 3355 MAP #5

PROFESSIONAL
ENGINEER
OF
D. W. TULLY
REGISTERED
1958
1962
1968
1974
1980
1986
1992
1998
2004
2010
2016
2022

FIGURE 5
HOPE, B.C.
KELSO EXPLORATIONS LTD. N.P.L.
BASE MAP - BULLDOZER TRENCHING
AND
(Also Proposed) DIAMOND DRILL HOLE
LOCATIONS
SCALE: 1"=100' DONALD W. TULLY, P.Eng. DATE:



GEOLOGICAL SURVEY OF CANADA
DEPARTMENT OF ENERGY, MINES AND RESOURCES



LEGEND

- QUATERNARY**
PLEISTOCENE AND RECENT
25 Glacial, glaciofluvial and fluvial gravel, sand and clay, talus and slope-wash deposits
- TERTIARY**
MIOCENE AND EARLIER
24 Granodiorite, quartz diorite
- COQUIHALLA GROUP**
23 Basalt, rhyolite, tuff, agglomerate, diorite
- 22 SKAGIT FORMATION: andesite, tuff, agglomerate
- CRETACEOUS AND/OR TERTIARY**
Eocene and Paleocene or Uppermost Cretaceous
21 Conglomerate, sandstone
- EARLY TERTIARY AND/OR LATE CRETACEOUS**
20 Foliated granodiorite, quartz diorite
- CRETACEOUS**
UPPER CRETACEOUS OR (?) OLDER
19 Quartz diorite
- LOWER CRETACEOUS**
KINGSDALE GROUP
18 Basalt, andesite, agglomerate, tuff
- PASAYTEN GROUP**
17 Sandstone, conglomerate, pelite
- JACKASS MOUNTAIN GROUP**
16a Sandstone, pelite and conglomerate; 16b Sandstone, minor conglomerate
- 15 BROKENBACK HILL FORMATION: tuff, agglomerate, sandstone, pelite
- 14 PENINSULA FORMATION: sandstone, conglomerate
- JURASSIC AND/OR LOWER CRETACEOUS**
13 Foliated granodiorite
- JURASSIC**
UPPER JURASSIC
DEWDNEY CREEK GROUP
12a Sandstone, pelite; 12b Tuff, pelite
- 11 AGASSIZ PRAIRIE FORMATION: pelite, minor sandstone, tuff, limestone
- 10 KENT FORMATION: conglomerate
- MIDDLE JURASSIC**
9 BILLHOOK CREEK FORMATION: tuff, sandstone
- 8 MYSTERIOUS CREEK FORMATION: pelite
- 7 ECHO ISLAND FORMATION: tuff, minor agglomerate, sandstone, pelite
- 6 HARRISON LAKE FORMATION: intermediate to acidic flow and pyroclastic rock
- LOWER AND MIDDLE JURASSIC**
LADNER GROUP
5 Pelite, volcanic sandstone
- TRIASSIC AND JURASSIC**
UPPER TRIASSIC, LOWER AND UPPER JURASSIC
4 CULTUS FORMATION: pelite, sandstone
- TRIASSIC**
UPPER TRIASSIC
NICOLA GROUP
3 Porphyritic andesite and basalt
- PENNSYLVANIAN AND PERMIAN**
CHILLIWACK GROUP
2a Basic volcanic rocks and pelites; 2b Pelite, siltstone, sandstone; 2c Lower Pennsylvanian limestone; 2d Pelite, sandstone, conglomerate; 2e Lower Permian limestone; 2f Basic volcanic flows, intermediate to acidic tuff and agglomerate
- DEVONIAN (?) CARBONIFEROUS (?) AND PERMIAN (?)**
HOZAMEEN GROUP
1a Pelite, chert, basic volcanic rock, minor limestone; 1b Chert, basic volcanic rock; 1c Basic volcanic rock; 1d Chert, pelite; 1e Limestone
- ULTRAMAFIC ROCK**
Aa Serpentine, serpentinitized peridotite; includes some Upper Paleozoic volcanic rocks in broad belt northeast of Hope; Ab, pyroxenite; Ac, hornblende
- SCHIST, AMPHIBOLITE AND PHYLLITE**
Ba Graphitic and quartzose phyllite; Bb, schist, amphibolite; Bc, migmatitic equivalent of Bb; Bd, amphibolite, hornblende, quartz diorite; in southwestern part of map-area between Welch Peak and Slesse Mountain these rocks are complexly imbricated with Upper Paleozoic rocks and the area shown as Bf includes both
- GNEISS**
C



- Geological boundary (defined - approximate, assumed)
- Bedding (horizontal, inclined, vertical)
- Schistosity, gneissosity, foliation in granitic rocks (inclined, vertical)
- Zone of imbricated Paleozoic and Mesozoic rocks
- Fault (defined or approximate, assumed)
- Fault (solid circle indicates downthrow side)
- Thrust fault (teeth on upper plate; defined or approximate, assumed)
- Antiform
- Synform
- Antiform or synform (arrow indicates plunge)
- Fossil locality
- Locality where age has been determined in millions of years
Determination by Geological Survey of Canada 39
Determination by University of British Columbia 16
Determination by Bradsgard, Folinsbee, Lipson, 1961 18
Mineral occurrence (number refers to property listed in text) 5 X

Geological compilation by J. W. H. Monger, 1969
Geological cartography by the Geological Survey of Canada, 1969

Magnetic declination 1969 varies from 22°32' easterly at centre of west edge to 22°23' easterly at centre of east edge. Mean annual change, decreasing 2.9'

Base-map at the same scale compiled and drawn by the Surveys and Mapping Branch, 1957

Elevations in feet above mean sea-level

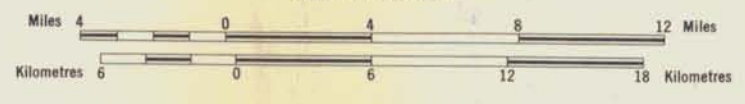
92J	92I	82L
	886A	1059A
92G	92H	82E
42-1963 1151A	52-1969 888A	35-1961 6-1957
92B	92A	

NATIONAL TOPOGRAPHIC SYSTEM REFERENCE AND INDEX TO ADJOINING GEOLOGICAL SURVEY OF CANADA MAPS



Copies of the topographical edition of this map may be obtained from the Map Distribution Office, Department of Energy, Mines and Resources, Ottawa.

MAP 12-1969
PAPER 69-47
GEOLOGY
HOPE
(West Half)
BRITISH COLUMBIA
Scale 1:250,000



Any revisions or additional information known to the user would be welcome by the Geological Survey of Canada.

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 5355 MAP M-2



HOPE
BRITISH COLUMBIA

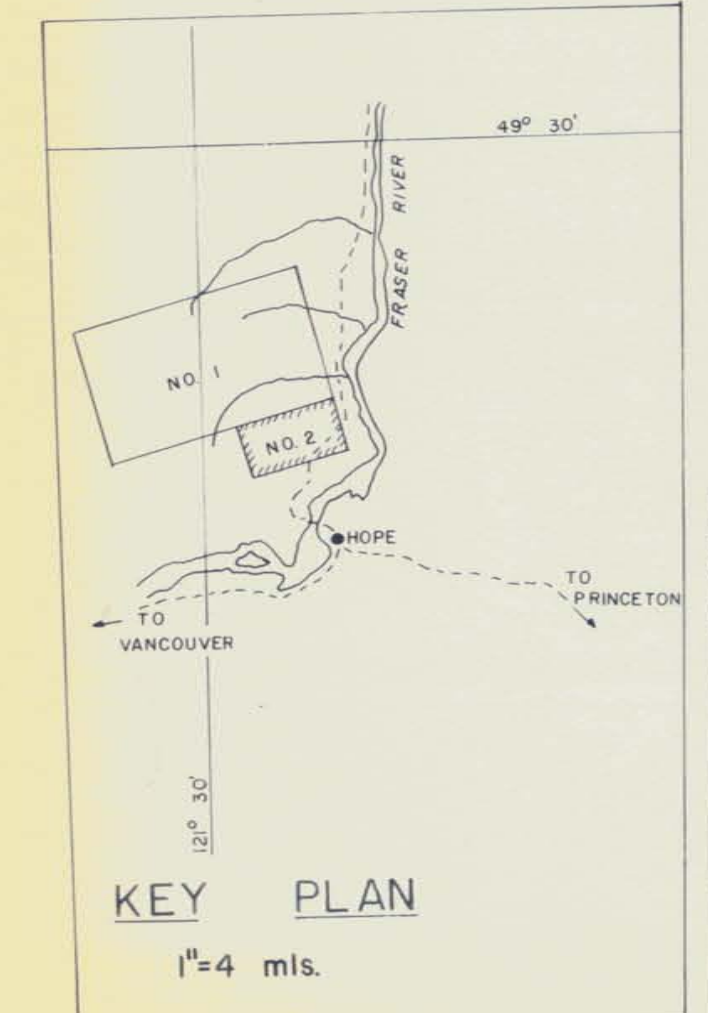
3355

M-2



LEGEND

- INTRUSIVES**
- ☐ QUARTZ VEIN
 - ☐ BASIC DYKES
 - ☐ FELSITE DYKES
 - ☐ PERIDOTITE, DUNITE
 - ☐ GABBRO
 - ☐ DIORITE
 - ☐ GRANITE, GRANODIORITE, GRANITE PORPHYRY⁽¹⁾
 - ☐ BRECCIATED PHASE OF PERIDOTITE
- METAMORPHIC ROCKS**
- ☐ QUARTZ - SERICITE - BIOTITE - GARNET SCHIST
 - ☐ BIOTITE - SERICITE - GARNET SCHIST
 - ☐ DOLOMITE & MARBELIZED LIMESTONE
 - ☐ BLACK GRAPHIC SCHIST
 - ☐ MAUVE COLOURED HORNFELS
 - ☐ BUFF COLOURED SCHIST
- SEDIMENTS AND VOLCANICS**
- ☐ BASIC LAVA, AGGLOMERATE & TUFF
 - ☐ SHALE
 - ☐ LIMESTONE
 - ☐ CONGLOMERATE
- SYMBOLS**
- ☐ RUST ZONES
 - ☐ QUARTZ VEINS & STRINGERS
 - ☐ HIGHLY FRACTURED
 - ☐ FAULT
 - ☐ SCHISTOSITY - DIP & STRIKE
 - △ CLAIM POST
 - ☐ CREEK
 - ☐ ROADS



Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 3355 MAP #6

D. W. TULLY
PROFESSIONAL
ENGINEER
BRITISH COLUMBIA

FIGURE 6

KELSO EXPLORATIONS LTD.
HOPE, B. C.

PROPOSED WORK PROGRAM

SCALE 1" = 400'	D. W. TULLY P. ENG.	DATE OCT. 4, 1971	SHEET No. 2
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LEGEND

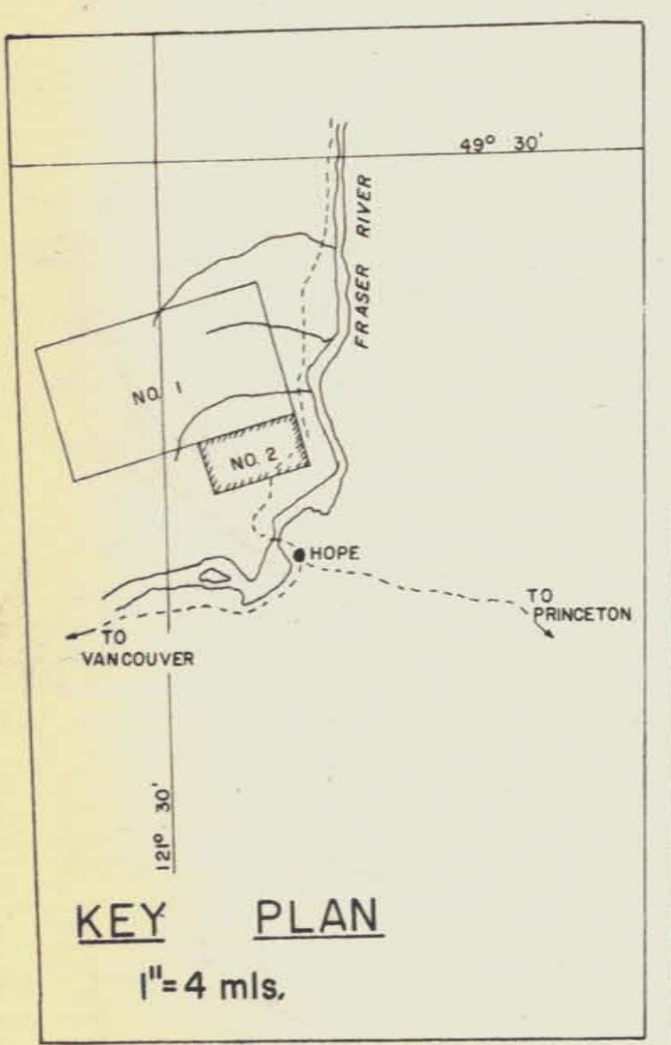
- CREEK
- ROADS
- CLAIM POST
- SAMPLE SITE Cu/Ni
- GEOCHEM. SAMPLES TAKEN 1971.
- PROPOSED DIAMOND DRILL HOLE

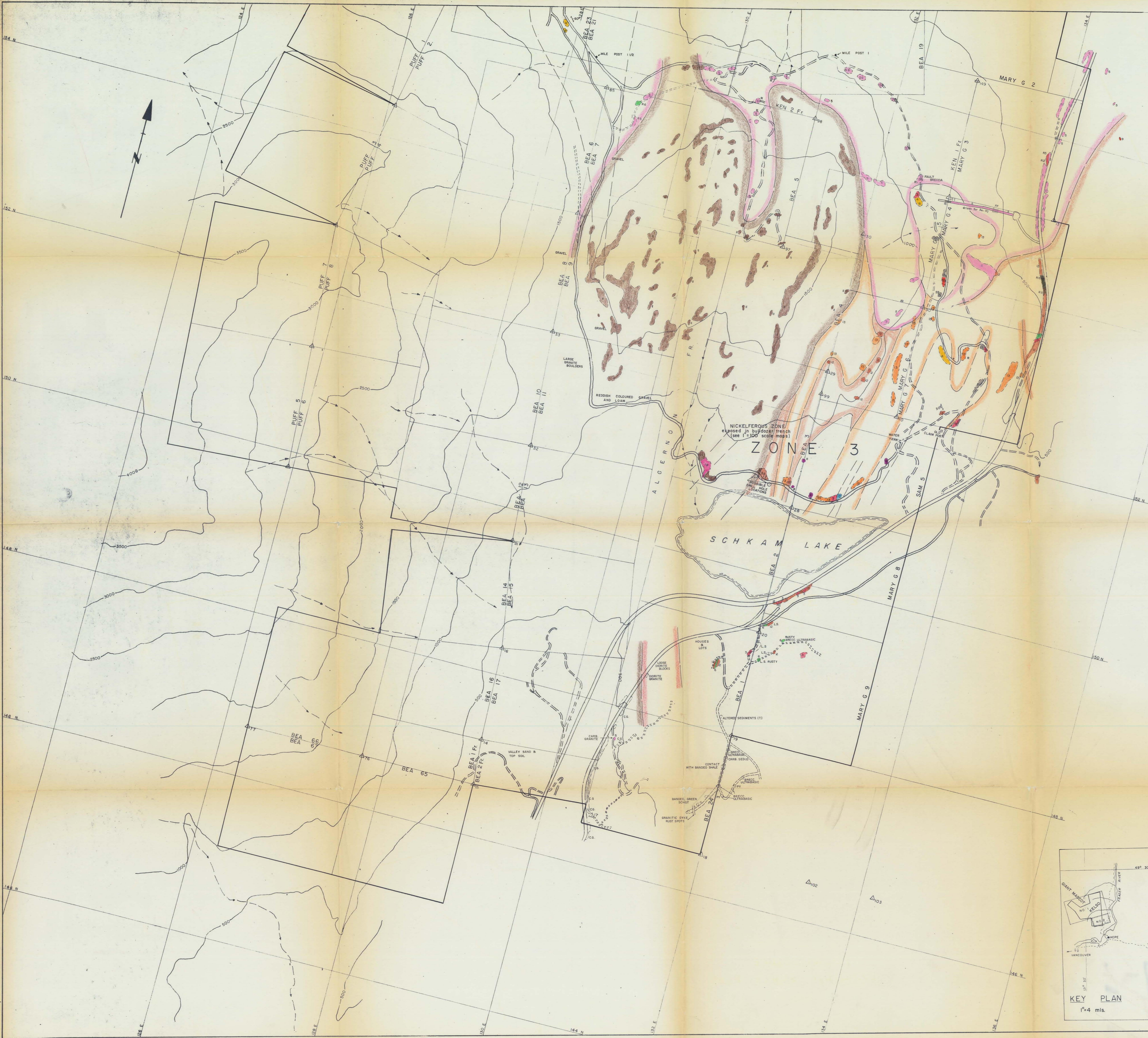
GEOCHEMICAL RESULTS	
NICKEL	COPPER
X	X plus 200 ppm
X	X plus 150 ppm

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 3355 M.P. #4

FIGURE 4
TO ACCOMPANY REPORT BY: DONALD W. TULLY P.E.
DATED OCTOBER 4, 1971

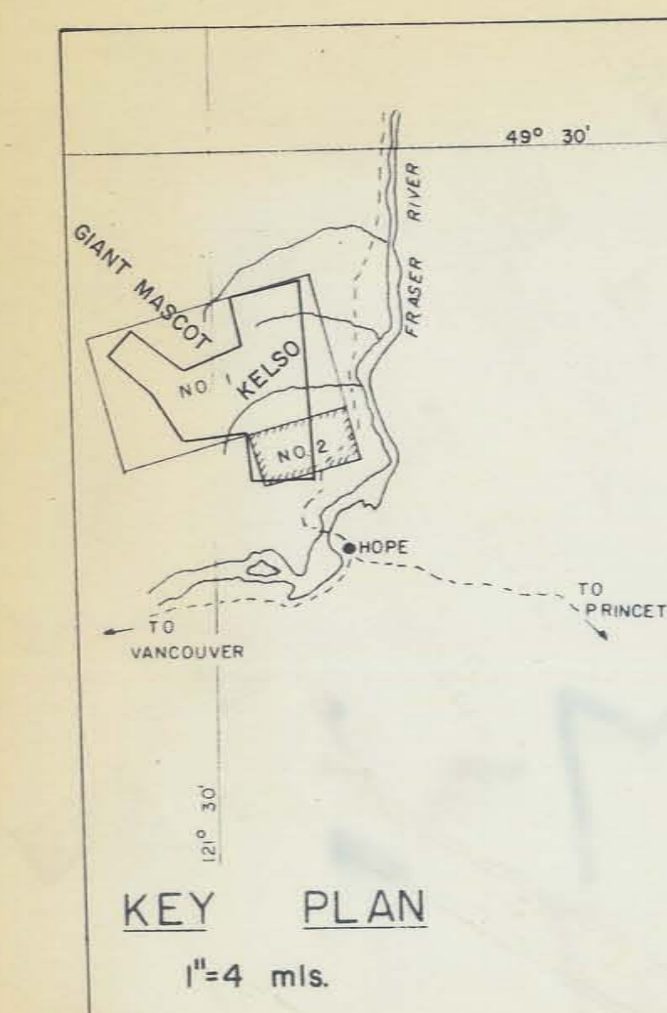
KELSO EXPLORATIONS LTD.
**RECONNAISSANCE
GEOCHEMICAL SAMPLE PLAN**
HOPE, B.C.





LEGEND

- INTRUSIVES**
- QUARTZ VEIN
 - BASIC DYKES
 - FELSITE DYKES
 - PERIDOTITE, DUNITE
 - GABBRO
 - DIORITE
 - GRANITE, GRANODIORITE, GRANITE PORPHYRY
 - BRECCIATED PHASE OF PERIDOTITE
- METAMORPHIC ROCKS**
- QUARTZ - SERICITE - BIOTITE - GARNET SCHIST
 - BIOTITE - SERICITE - GARNET SCHIST
 - DOLOMITE & MARBELIZED LIMESTONE
 - BLACK GRAPHITIC SCHIST
 - MAUVE COLOURED HORNFELS
 - BUFF COLOURED SCHIST
 - SEDIMENTS AND VOLCANICS
- SEDIMENTS AND VOLCANICS**
- BASIC LAVA, AGGLOMERATE & TUFF
 - SHALE - ARGILLITE
 - LIMESTONE
 - CONGLOMERATE
- SYMBOLS**
- RUST ZONES
 - QUARTZ VEINS & STRINGERS
 - HIGHLY FRACTURED
 - FAULT
 - SCHISTOSITY - DIP & STRIKE
 - △ CLAIM POST
 - CREEK
 - ROADS



Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 3355 MAP 43

Donald W. Tully
DONALD W. TULLY
PROFESSIONAL ENGINEER
BRITISH COLUMBIA

FIGURE 3

TO ACCOMPANY REPORT BY: DONALD W. TULLY PENG
DATED OCTOBER 4, 1971

KELSO EXPLORATIONS LTD.

GEOLOGY
HOPE, B.C.

SCALE 1"=400'	REVISED SEPT. 1971	DATE NOV. 1969	SHEET No. 2
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