

3372

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

KAY, KING, KO & KING FR. MINERAL CLAIMS

104 I-5 LIARD M.D., B.C.

LAT. 58° 17' N., LONG. 129° 56' W.

GEOLOGICAL REPORT - DIAMOND DRILLING

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

NO. 3372 MAP

by

H. S. Aikins
under the supervision of
P. H. Sevensma Ph.D., P.Eng.

October 15, 1971

Peter H. Sevensma Consultants Ltd.

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TANZILLA EXPLORATIONS LTD. (N.P.L.)
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LAT. 58° 17' N., LONG. 129° 56' W.

1. INTRODUCTION

During the period from September 15 to October 6, 1971 a program of site preparation and diamond drilling was carried out on some of the claims herein referred to as the "KING" GROUP.

Diamond drill targets were selected primarily on the basis of a recently completed induced polarization survey.

Approximately one and three quarter miles of tote road was constructed to provide truck access to all sites.

Geological mapping, controlled by transit-stadia and pace-compass traverses, was conducted to provide data which could be of value in correlating drill results.

Three holes were completed for a total of 745 feet. AW wire line equipment was employed with satisfactory results.

2. PROPERTY, LOCATION, ACCESS

The property at present consists of the following mineral claims:-

<u>Claim</u>	<u>No.</u>	<u>Record No.</u>	<u>Date of Record</u>
KAY 1 & 2	2	35920-35921	Aug. 25, 1969
KAY 17 to 28	12	35936-35947	Aug. 25, 1969
KIM 1 to 14	14	41296-41309	Nov. 18, 1969
KING KING 1 to 10	10	34574-34583	Dec. 20, 1968
KING 21 to 30	10	34584-34593	Dec. 20, 1968
KING 61 to 86	26	26510-26535	Mar. 3, 1967
BOX 1 to 10	10	29512-29521	Feb. 15, 1968
KO 1 to 10	10	49923-49932	Nov. 4, 1970
KING FR. 1 to 9	9	49933-49941	Nov. 4, 1970
TOTAL	103		

Claim locations as shown on Fig. 2 are subject to revision upon survey.

The property is situated some 12 miles SSE of the community of Dease Lake and approximately 3 miles west of the present highway.

Access to a number of points within the claim group is possible by four wheel drive vehicle. The seven mile tote-road commences from a point on the Stewart-Cassiar highway located 2.7 miles south of the Tanzilla river bridge.

3. GEOLOGY

A succession of Mesozoic sediments and volcanics intruded by offshoots of the Hotailuh batholith underlie the property. Andesitic and basaltic flows, pyroclastics, and clastics ascribed to early Upper Triassic comprise the layered sequence. The main body of the metalliferous Hotailuh batholith lies to the south-east while comparable intrusives outcrop to the south and west of the current area of interest. The layered sequence therefore occurs as a pendant or narrow re-entrant mass.

Recent studies* provide the following K-Ar dates for the Hotailuh and other plutons of the western cordillera:-
Hotailuh (193 m.y.), Galore Creek (198 m.y.), Guichon (200 m.y.), Thuya (194 m.y.), Takamkane (187 m.y.), and Copper Mountain Stock (195 m.y.). The Hickman batholith (Shaft Creek) is of similar age. The major "porphyry copper" deposits of British Columbia are associated with this period of intrusive activity.

Widely scattered outcrop on or adjacent to the property confirms a near east-west trend to formational units with northerly dips ranging from 12 to 20 degrees. Rock types observed include pillowed basaltic lavas, pyroclastics, tuff, andesite, greywacke, and siliceous argillites. Alteration effects, more apparent in drill core than in surface exposures, ranged from minor to intense, showing little apparent correlation with proximity to the inferred intrusive contact.

* Geological Survey of Canada, Economic Geology Report No. 1, page 440.

3. GEOLOGY (Cont'd)

Strong NS trending lineaments infer the presence of faulting but no direct evidence of major displacement exists.

The nature and extent of fluvioglacial surficial deposits is a matter which merits close attention. In general it is noted that from several inches to more than two feet of organic material overlies a subsoil composed of unsorted sand and gravel containing large granitic erratics. Subsurface drainage is generally lacking, giving rise to extensive marshy areas.

4. HISTORY

A copper prospect located some 5 to 6 miles to the south has been held under crown grant for many years. Recent activity in the immediate area dates from completion of that portion of the Cassiar-Stewart highway which extends from Dease to Kinaskan Lake. During the period between 1963 and 1968 several companies were active within a 10 mile radius of the upper Gnat Lake. During this period work by Deas Lake Mines, a subsidiary formed by Lytton Minerals and Mitsui Mining & Smelting Co., is reported to have indicated mineral deposits containing 20,000,000 tons grading 0.44% Cu.

During the winter of 1967-68 some of the claims which now comprise the "KING" group were acquired. These, and claims subsequently acquired, covered an extension of the inferred trend of the Lytton deposits and were known to cover minor sulphide occurrences.

Subsequent work has entailed geochemical and geophysical surveys on a system of grid lines established for control. Geological mapping of a reconnaissance nature has been carried out. An induced polarization survey completed in mid 1971 provided several drill targets which were tested during the course of recent work.

5. MINERAL OCCURRENCE

Surface mapping was carried out concurrent with drilling operations. A traverse within the existing grid along a tributary of Tsenaglode creek provided several previously unmapped exposures.

A small oxidized outcrop along the west side of the creek was found to consist of biotitized volcanic clastic sediments containing chalcopyrite as fine disseminations and fracture filling.

Two samples from this exposure are reported as follows:-

<u>Sample No.</u>	<u>Type</u>	<u>Width</u>	<u>% Cu.</u>	<u>Lab & Cert. No.</u>
1.	grab sample	-	0.25%	Crest No. 3373
70680	chip sample	18.0 ft.	0.19%	Crest No. 3372

Hand trenching exposed an area of 6 ft. by 22 ft. showing the mineralized zone to be bounded on the north by a dyke and open to the south. A short distance to the south-west a large monzonite outcrop suggests that the showing is in close proximity to the main intrusive contact.

Traces of bornite and an as yet unidentified metallic mineral together with minor pyrrhotite and magnetite are associated with the chalcopyrite. The sediments have a fresh appearance on the broken surface and are somewhat silicified with minor biotitization. Fracture surfaces are highly oxidized.

6. DIAMOND DRILLING

Detailed geological logs are attached as Appendix "A".

Drilling failed to reveal any significant concentration of copper mineralization. Holes 1 and 2 did however encounter anomalous sulphide concentrations which could explain the chargeability effects obtained by induced polarization. Hole 3 intersected less mineralization and in general a much lower degree of metamorphic alteration consistent with the results of the induced polarization survey.

Chalcopyrite was noted in core from all three holes.

Significant results obtained from examination of the core are provided in the following table:-

<u>Hole No.</u>	<u>Major Alteration effects</u>	<u>Sulphides Present</u>
1	Albitization-biotitization-chloritization	Pyritized & irregular blebs of pyrrhotite-chalcopyrite.
2	Kaolinization-silicification	Pyritized, minor chalcopyrite in fractures.
3	Epidotized-minor chlorite	Sparse pyrite-trace chalcopyrite in epidote.

Assay results obtained from split core are as follows:-

<u>Hole No.</u>	<u>Sample No.</u>	<u>Footage</u>	<u>Length</u>	<u>Au./Oz.</u>	<u>Ag./Oz.</u>	<u>% Cu.</u>	<u>% Ni.</u>
1	70676	30.3 to 31.3	1.0	Tr.	Tr.	0.02	Tr.
2	70677	120.5 to 123.0	2.5	-	0.1	0.04	-
3	70678	169.0 to 172.5	3.5	Tr.	0.1	0.09	-

All samples were taken by H.S. Aikins and assayed by

Crest Laboratories (B.C.) Ltd.

7. SUMMARY

No unusual difficulties were encountered in the construction of access roads or in carrying out the drilling operations.

Drill results confirm the presence of a significant concentration of sulphide minerals in a predominantly sedimentary sequence within the contact aureole of the Hotailuh batholith.

The mineralized outcrop, showing a high ratio of chalcopyrite to other sulphides indicates a need for close examination of an area peripheral to the anomalous I.P. response.

Drill hole No. 2 encountered some 45 feet of fluvioglacial overburden which may effectively mask geochemical response over much of the property.

Further work is warranted in view of the marginal copper values encountered in outcrop and the widespread presence of copper mineralization associated with a pyritic halo near the Hotailuh batholith.

8. RECOMMENDATIONS

Detailed geological mapping in conjunction with selective hand trenching and limited soil and rock geochemical analysis is indicated. Bulldozer stripping may be warranted to explore anomalous geochemical response in areas of shallow overburden.

Key ground should be retained in good standing pending completion of further work. An area of at least 60 net claims is recommended. Detailed surface exploration in the vicinity of the recently located copper showing may indicate the presence of a zone which would require investigation by drilling.

9. COST ESTIMATESTAGE (1) Firm.

Geological Mapping	
Geologist & assistant, 14 days field work	\$ 2,000.00
Trenching, soil sampling, etc.	
20 man/days @ \$30 per day	600.00
Assaying & geochemical analysis	
100 samples @ \$4.00 per sample	400.00
Camp Operation	
50 man days @ \$10.00 per day	500.00
Equipment Rental & Supplies	
Truck, rock drill, explosive, etc.	500.00
Travel, and Communication	
Air-fares, telephone	500.00
Consulting fees	
Report Preparation, drafting	500.00
	<hr/>
TOTAL (STAGE 1)	\$ 5,000.00

STAGE (2) * Contingent on Stage 1

Stage 1 may warrant expansion in the event of early encouragement and provision for the expenditures of up to an additional \$5,000.00 from the program outlined for Stage 2 is recommended.

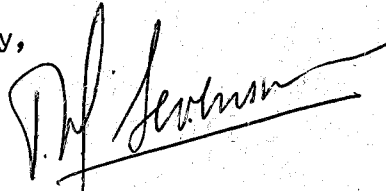
Bulldozer stripping and trenching	
100 hours @ \$35.00 per hour	\$ 3,500.00
Diamond Drilling	
1,000 feet @ \$15.00 per foot (inclus.)	15,000.00
Equipment Mobilization (subject to rental contr.)	1,500.00
Camp Operation or alternate accbm. for Co. personnel	500.00
Truck Rental and Operation	1,000.00
Sampling and Assaying	500.00
Engineering and Supervision	2,500.00
Consulting Fees & Expenses	1,000.00
Sub-Total	<hr/> \$ 25,500.00
Contingency Allowance	<hr/> 4,500.00
TOTAL (STAGE 2)	\$ 30,000.00

Respectfully submitted,

H. S. Aikins 

H. S. Aikins.

Endorsed by,



P.H. Sevensma, Ph.D., P.Eng.
PETER H. SEVENSMA CONSULTANTS LTD.

Vancouver, B. C.
October 15, 1971.

CERTIFICATE

I, PIETER H. SEVENSMA, of 908, 1280 Haro Street, in the City of Vancouver, in the Province of British Columbia, DO HEREBY CERTIFY:

1. THAT I am a Consulting Geologist, with a business address at 715 - 850 West Hastings Street, in the City of Vancouver, in the Province of British Columbia.
2. THAT I am a graduate of the University of Geneva, Switzerland (Physics and Chemistry, 1937; Geology and Mineralogy, 1937) where I obtained my Ph.D., in Geological and Mineralogical Sciences in 1941.
3. THAT I am a Registered Professional Engineer in the Geological Section of the Association of Professional Engineers of the Province of British Columbia and of the Association of Professional Engineers of Yukon Territory.
4. THAT I have practiced my profession as a Geologist for the past 32 years.
5. THAT I have personally examined the property held by Tanzilla Explorations Ltd., and was present during the conduct of the work herein described on September 25th, and again on September 28th.
6. THAT I have no interest, either directly or indirectly in any of the securities or properties of Tanzilla Explorations Ltd. (N.P.L.) and do not expect to acquire or receive any.



Vancouver, B. C.
October 15, 1971.

P.H. Sevensma, Ph.D., P.Eng.

Objective: Test I.P. Anomaly Drilling Started: Sept. 22, 1971 Drilling Completed: Sept. 23, 1971
Logged by: H. S. Aikins Date: Sept. 23 to 26, 1971 Samples Submitted to: CREST (Lab.)-Date:

Lat.: Long.: Place: "88.0 ft. SE of Stn. 8 W on Line 20 N." App. Bear.: West App. Dip.: -50° Length: 283.0

From	To	Length	Recov.	Remarks:
0.0	2.5	2.5	0	Overburden, glacial till.
2.5	29.0	26.5	26.0	Graywacke, fine to medium grainsize, rounded to sub-angular generally less than 2 mm. biotized throughout. 2.5 - 7.0: Core badly broken, numerous oxidized fractures. Rx appears massive. 2 - 5% sulphide, pred. pyrrhotite as fine disseminations, irreg. blebs to 5 mm. & fracture filling. 7.0 - 30.0: Massive, biotitized Rx with some local vague laminations @ 14 ft. (30°) @ 24 ft. (20°). Minor chlorite & calcite along fracture planes. Core has brown spotted appearance. Disseminated pyrrhotite throughout with minor associated chalcopryrite.
29.0	30.3	1.3	1.3	fg. lt. grey limestone(?) somewhat mottled appearance, minor pyrite and chalco.
30.3	35.5	5.2	5.2	Graywacke, fg. dense Rx massive, biotite less pronounced. 30.3 - 31.3: 10% Sulphide in irregular stringers, blebs & dissem. grains - pred. pyrrhotite (*Sample #70676) 31.3 - 35.5: 10% Sulphide, similar to above.
35.5	38.9	3.4	3.4	Andesite (?) highly chloritized, scattered blebs of pyrrhotite, chlorite pseudomorphs of phenocrysts - *fine acicular tourmaline scattered throughout. probably mafic.
38.9	40.0	1.1	1.1	Limy Seds; bleached appearance, v.f.g., greenish (epidote?) alt'n., sparse sulphide.
40.0	71.3	31.3	29.1	Graywacke, fine to medium grain size, biotitized with chlorite alt'n. limited to fractures. 40.0 - 44.0: Sparse mineralization except 2" section of 30% sulphide @ 41 ft. 44.0 - 46.5: brecciated appearance, partially albitized. 46.5 - 71.3: vaguely banded; 30° @ 54.5 ft., 38° @ 61.0 ft., spotted alt'n intermittent beyond 60 ft. (garnetized) sulphides:- 60.7 to 61.3 ± 30%; 2 to 5% in balance of section.
71.3	116.0	44.7	43.2	Albitite: moderate to intense albitization, both mottled & brecciated appearance common. Sulphides @ - 71.4, 76.5, 85.0 to 86.0, 87', 89', 90.7 to 91.0, 95.2, 100.2, 101.0 to 101.2, 102.0 to 102.4, 102.8 to 103.0, 103', 106.0 to 107.8, 111.0, 111.8 to 112.0. (pred. pyrrhotite ± 20% to near massive in sections noted. chalcopryrite as minute specks in or at margin of pyrrhotite. Bedding: 30° @ 110.0 ft. irreg. to obliterated elsewhere.

Property: KING GROUP
Hole No.: 1
Core Size: AW Page 1

Objective: I.P. Anomaly

Drilling Started:

Drilling Completed:

Logged by: H. S. Aikins

Date: Sept. 26, 1971

Samples Submitted to: CREST

(Lab.)-Date:

Lat.:	Long.:	Place:	App.Bear.:	App.Dip.:	Length:
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From	To	Length	Recov.	Remarks:
16.0	120.2	4.2	4.2	Greywacke; biotitized & chloritized, less sulphide than adjacent sections.
20.2	126.0	5.8	4.3	Albitite; white to greenish mottled appearance, 5 to 20% sulphide with sparse chalcopyrite. (less than .1% Cu)
26.0	128.4	2.4	2.2	Albitized dyke?, appearance suggests original crystalline texture.
28.4	156.9	28.5	28.5	Albitized Greywacke, chloritization local, sulphides mainly scattered euhedral pyrite; minor pyrrhotite in chloritic zones
56.9	168.0	11.1	11.1	Greywacke, generally finer grained than previous (more argillaceous), minor chlorite alt'n., some biotite. scattered pyrrhotite & pyrite, minor chalcopyrite noted at 166.5, fresh unalt'd Rx at end of sect. <10% Fe
68.0	173.3	5.3	5.2	Albitized sediments, bedding well preserved despite some local bracciation, Rx hard, white to buff & pink colour Bedding 11° @ 169.5, chloritized along irregular fractures, only minor pyrrhotite present.
73.3	175.5	2.0	2.2	Greywacke → Siltstone: Biotitized, minor chlorite, variable disseminated sulphides.
75.5	186.2	10.7	10.4	Siltstone, massive very fine grained sediments, some local biotitized sections, disseminated pyrrhotite
86.2	190.5	4.3	4.2	Siltstone, similar to above but with more biotite & locally more sulphide, 1" pyrrhotite band ± 5% Fe @ 188.5 tr. chalc
90.5	192.0	1.5	1.5	Albitized Sediments, blebs & irregular stringers of pyrrhotite & pyrite.
92.0	201.0	9.0	8.8	Greywacke, some fine grained elastics, heavily biotitized throughout, minor to heavily disseminated sulphide (pyrrhotite)
01.0	213.7	12.7	12.7	Albitized sediments, white to faint pink colour, hard, very fine-grained; faint somewhat irregular banding at low angle. narrow (1/4") chloritic bands containing blebs of pyrrhotite
13.7	225.2	11.5	11.5	Greywacke, biotitized with disseminated pyrrhotite, minor albite at 216.0, and from 221.0 to 222.0 Rx medium to coarse grained
25.2	231.0	5.8	4.3	Albitized sediments, core badly broken, fine grained and darker colour than usual, some fair sulphide. specimen taken @ 230 - note chalcopyrite & unidentified grey sulphide mineral.
31.0	238.5	7.5	7.5	Albitized sediments, similar to above but less broken, Rx appears massive.
38.5	246.0	7.5	7.5	Albitized sediments, excellent core, massive-minor biotite, chlorite, scattered blebs of pyrrhotite.
46.0	252.2	6.2	6.2	Albitized sediments, thin bedded & pyrrhotite laminated 20° @ 248.5 ft.
52.2	254.0	1.8	1.8	Greywacke, coarse biotitized with heavily disseminated pyrrhotite.
54.0	283.0	29.0	29.0	Greywacke, bedded sequence, beds 1/8" to ± 2.0 ft. thick-35° @ 268.0 ft. minor local biotite & chlorite; scattered blebs of sulphide.

Property: KING GROUP

Hole No.: 1

Core Size: AW

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Diamond Drill Geological Log
P.H. SEVENSMA CONSULTANTS LTD.
715 - 850 West Hastings St., Vancouver 1, B.C.

COMPANY

Tanzilla Explorations (N.P.L.)
588 Howe St. (Room 4),
Vancouver, B. C.

Objective: Test I.P. Anomaly Drilling Started: Sept. 26, 1971 Drilling Completed: Oct. 4, 1971

Logged by: H. S. Aikins Date: Oct. 5, 1971 Samples Submitted to: CREST (Lab.)-Date:

Lat.: Long.: Place: 1 + 34 West, line 4 North App. Bear.: N 63° E App. Dip.: -61° Length: 328.0 ft.

From	To	Length	Recov.	Remarks:
0.0	50.0	50.0	-	Overburden, glacial sand, gravel and occasional boulders.
50.0	58.0	8.0	7.3	Siltstone: mass to vaguely banded very fine-grained sed., bdg. 50° @ 57.5 ft., badly broken core, highly fractured. Rx is partially albitized and/or silicified, chloritization local, much of Rx is bleached, minor pyrite.
58.0	79.2	21.2	21.2	Siltstone; similar to above, chlorite-albite alt'n. more pervasive, sulphide predominately pyrite-diss. 61.0 - 63.0 somewhat biotitized, bdg. 35° @ 62.5 ft., less evidence of leaching. blebs & fract. filling
79.2	82.0	2.8	2.8	Greywacke, near massive cg. sed., buff to grey, minor scattered pyrite, some biotite.
82.0	109.0	27.0	27.0	Fine - medium grained sediments and altered equivalents, minor to strong albitization, some chlorite. 82.0 - 88.0, Excellent Tb. sequence, alternating lt. & dk. bands 1/8" to ± 2" thick, dip uniform at 50° - 55°. 88.0 - 89.0, Cemented breccia, strongly albitized, 10% sulphides as disseminations and small blebs. 89.0 - 92.5, Massive fine grained sed. with albite-chlorite alt'n., intermixed pyrite-pyrrhotite blebs. 92.5 - 109.0, Fresh, relatively unaltered (siltstone?), massive with finely disseminated pyrrhotite-3-5%.
109.0	111.5	2.5	2.5	Greywacke, chlorite alt'n. increasing to end of section.
111.5	120.5	9.0	7.4	Kaolinized sed., fresher sections similar to above, soft whitish Rx, ± 5% pyrite & pyrrhotite, badly broken.
120.5	123.0	2.5	2.5	Leached & kaolinized sed. Sampled (No. 70677) ± 10% sulphides, pred. pyrr. - green (malachite?) stain, dendritic manganite.
123.0	124.0	1.0	1.0	Tb. Sediments, core crosses fold axis, maximum dips 20°, less altered than adjacent sections.
124.0	138.0	14.0	11.0	Leached & kaolinized sed., soft, white featureless Rx., blebs of sulphide throughout ± 10 combined pyrite & pyrrhotite.
138.0	141.5	3.5	3.0	Tuffaceous bed? - fine fragmental appearance, alt'n. similar to above.
141.5	158.0	16.5	11.0	Leached & kaolinized sed., numerous irregular fractures, Qtz.-ankerite filled with minor sulphide, vague banding ± 20°.
158.0	163.0	5.0	0.0	Driller's note - Mud seams, no core recovered. FAULT OR WATERCOURSE (open fracture).
163.0	168.5	5.5	2.2	Leached & kaolinized sed., core badly broken, ± 10% sulphides (pyrite & pyrrhotite fr. min.) soft lt. coloured
168.5	169.0	0.5	0.5	Silicified sed., minor fr. & disseminated pyrrhotite, hard dense Rx.
169.0	172.5	3.5	3.5	Silicified sed., light grey to grey vfg. sed., < 1% chalcocite in fractures - SAMPL
172.5	180.7	8.2	6.5	Silicified sed., grey to almost black, well fractured, stringers of fg. pyrite.

Property: KING GROUP RX.
Hole No.: 2
Core Size: AW Page 1 of 2

Objective: Test I.P. Anomaly
Drilling Started: _____ Drilling Completed: Oct. 4, 1971.

Logged by: H. S. Aikins Date: _____ Samples Submitted to: _____ (Lab.)-Date: _____

Lat.: _____ Long.: _____ Place: _____ App.Bear.: _____ App.Dip.: _____ Length: _____

From	To	Length	Recov.	Remarks:
80.7	181.8	1.1	1.1	Kaolinized Seds, pyrite & manganite in irreg. blebs & disseminations.
81.8	195.5	13.7	13.7	Silicified Seds, some chloritic alt'n, scattered fine pyrite, few small anhedral garnet clusters.
95.5	207.0	11.5	8.8	Vaguely banded seds, core badly broken, Rx soft - fairly hard, Bdg.? 35° @ 206 ft.
07.0	257.0	50.0	18.0	Intensely fractured Rx. 90% of core is angular fragments of less than 1".
				207.0 - 210.0 brecciated highly siliceous Rx, traces of chalcopyrite.
				210.0 - 212.0 kaolinized seds. minor pyrite (good core).
				212.0 - 245' similar to above but extremely broken with very poor recovery. hematite in fractures.
				245' - 250.0 laminated black argillite with vfg. pyrite bands. dip 40° to core.(Rx highly silicified).
				250.0 - 257.0 chloritized and silicified seds. poor recovery. minor coarse cohedral pyrite along frs.
57.0	264.0	7.0	7.0	Silicified Seds, minor chloritization, disseminated pyrite & traces of other metallic?. Rx massive and fine grained.
64.0	275.0	11.0	11.0	Laminated black chert, laminae @ 38° at 265', 42° at 270', fine stockwork of qtz-carb. veinlets with hematite
75.0	293.0	18.0	18.0	Silicified Tb.Seds, lt.grey fine to medium grained, locally chloritized, minor dissem. pyrite in coarser
93.0	317.6	24.6	24.3	Silicified Seds, massive to vaguely banded, chlorite and pyrite as above. Albitized beyond 308', Bdg. 250° @ portions, dips 20° 317'. specks of chalcopyrite @ 308.5.
17.6	321.8	4.2	4.2	Hornfelsic Seds, tough hard Rx with spotty alteration, finely disseminated sulphides throughout.
21.8	328.0	6.2	6.2	Dyke?, chloritic Rx with granulose texture, mafic composition (amphibole?) core is magnetic. scattered pyrrhotite throughout, adjacent alt'n suggests this is not extrusive.
	328.0			END

GENERAL: More pyrite but less pyrrhotite than in Hole 1. Pyrite shows preferential replacement of seds.

Zone from 111.5 to 257.0 may cross major fault system.

Property: KING GROUP
Hole No.: 2
Core Size: AW

Page
2 of 2

Objective: Obtain stratigraphic & structural information
Test I.P. & Geochemical Anomalies.

Drilling Started: Oct. 4, 1971

Drilling Completed: Oct. 6, 1971

Logged by: H. S. Aikins

Date: Oct. 5, 1971

Samples Submitted to:

(Lab.)-Date:

Lat.:	Long.:	Place: 19 + 60' N - 0 + 42.5 E (near Baseline & line 20 N)	App. Bear.: S 10° W	App. Dip.: -75°	Length: 134.0
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From	To	Length	Recov.	Remarks:
				Collar near E-W striking Outcrops with 12 to 20° dips to north.
0.0	3.0	3.0	0.0	Overburden, no core.
3.0	134.0			Graded sediments, individual beds appear massive and average 5.0 feet thick. basal portions have coarse fragmental appearance on surface of core. contacts irregular, scour features? at 11.2 ft., 1/4" - 3/4" fg. frags in first 2" of base at 4.8 ft. coarser portions appear crystalline, propolitic alt'n. & silicification noted. 3.0-11.0 numerous oxidized fractures. 1.8 ft. of core lost between 5.0-11.0. 11.0-16' specimen taken at 11.0, fine siliceous seds - coarse chloritic Rx (Greywacke?) 16' -17.2 epidote-chlorite alt'n, 10% pyrite in blebs & stringers. 17.2-23.0 fresh relatively unaltered Rx, minor fractures generally about 30° to core. 23.0-26.8 epidote-chlorite alt'n., intense at 23.5 pyrite with minor chalcopyrite associated. 26.8-31.0 some selective epidote-chlorite alt'n. along fracture // to core. 31.0-55.0 graded seds. minor pyrite. 55.0-92.0 Rx becomes more siliceous, minor epidote at 63.0 and 64.0. 92.0-99.3 Banding more pronounced, some thin-bedded sections, i.e. 94.0 to 95.5. Bdg. 82° at 76.0 ft. 80° @ 92.0 ft., 80° @ 95.0 ft. minor amount epidote at 96.0. May be tuffaceous, white to buff bands 1/16" - 1/4" thick, this section extremely siliceous, pyrite in fractures and scattered subhedral crystals. 99.3-102.0 massive grading to coarse crystalline Rx, somewhat chlorite with 1/8" epidote veins. 102.0-104.5 banded siliceous Rx. 80° at 104.0 ft. 104.5-134.0 massive chloritic (seds?) local epidote, blebs of chalcopyrite & pyrite @ 112.5 ft. narrow (tuffaceous?) beds at 126 & 127.5 chlorite more pronounced.
	134.0			END. Hole stopped due to frozen water line.

Property: KING GROUP

Hole No.: 3

Core Size: AW

Page

APPENDIX "B"

to a Geological report by H.S. Aikins and P.H. Sevensma, P. Eng.,
dated October 15, 1971 prepared on behalf of
TANZILLA EXPLORATIONS LTD. (N.P.L.)

Declaration as to Personnel Employed and Costs Incurred.

<u>Individual or Firm</u>	<u>Date of Work</u>	<u>No. Days</u>	<u>Rate</u>	<u>Total</u>
Peter H. Sevensma Cons. Ltd. P.H. Sevensma, P. Eng.	Sept. 25 & 28/71	1½	\$170.	\$ 255.00
H.S. Aikins, Technician (Expenses & disbursements for above)	Sept. 1 to Oct. 8/71	28	80.	2,240.00 407.24
A. Stone, linecutting & trenching	Sept. 15 to 21/71	7	25.	175.00
R. Hehass, linecutting & trenching	Sept. 15 to 30/71	15	25.	375.00
Camp Operation				365.40
Truck Operation and Expense				344.97
TOTAL COST; GEOLOGICAL STUDIES, SUPPORT & DRILL SUPERVISION				<u>\$4,162.61</u>
Preparation of drill sites & moving drill Grant Stewart Construction (bulldozer rental)				1,374.00
Direct drilling costs (745 ft. of AW) Kendrick Drilling Ltd.				<u>9,167.50</u>
* TOTAL COST, DIAMOND DRILLING				<u>\$10,541.50</u>
TOTAL COST				<u><u>\$14,704.11</u></u>

* Average cost per foot \$14.15

Declared before me at the
of _____ in the
Province of British Columbia, this
day of _____, 1971

VANCOUVER, B.C.
OCT 26 1971
A.D.
G. Phillips
Sole-acting Notary

P.H. Sevensma

DOMINION OF CANADA)	IN THE MATTER OF, expenditures
)	incurred and personnel employed
PROVINCE OF BRITISH COLUMBIA)	in conjunction with a geological
)	survey carried out on the Kay,
TO WIT)	King, KD, Box and King Fraction
)	mineral claims in the Liard M.D., B.C.

I, PIETER H. SEVENSMA, of 715-850 West Hastings St., Vancouver, B.C.,
DO SOLEMNLY DECLARE:

THAT attached hereto, this my affidavit and marked
"Appendix B" is a statement of the personnel employed
and the expenditures incurred in carrying out this work.

P.H. Sevensma, Ph.D., P. Eng.

October 15, 1971

Declared before me at the

of

VANCOUVER, in the
B.C.

of British Columbia, this

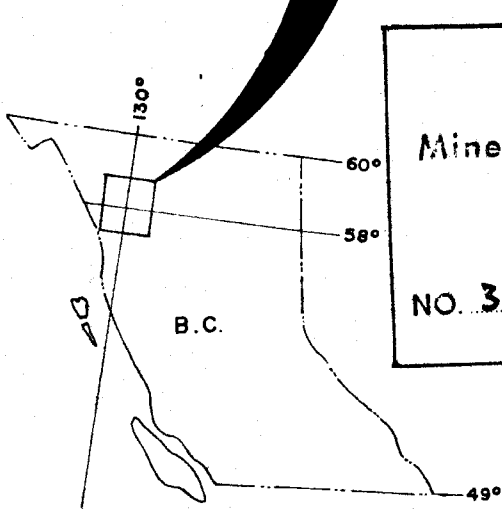
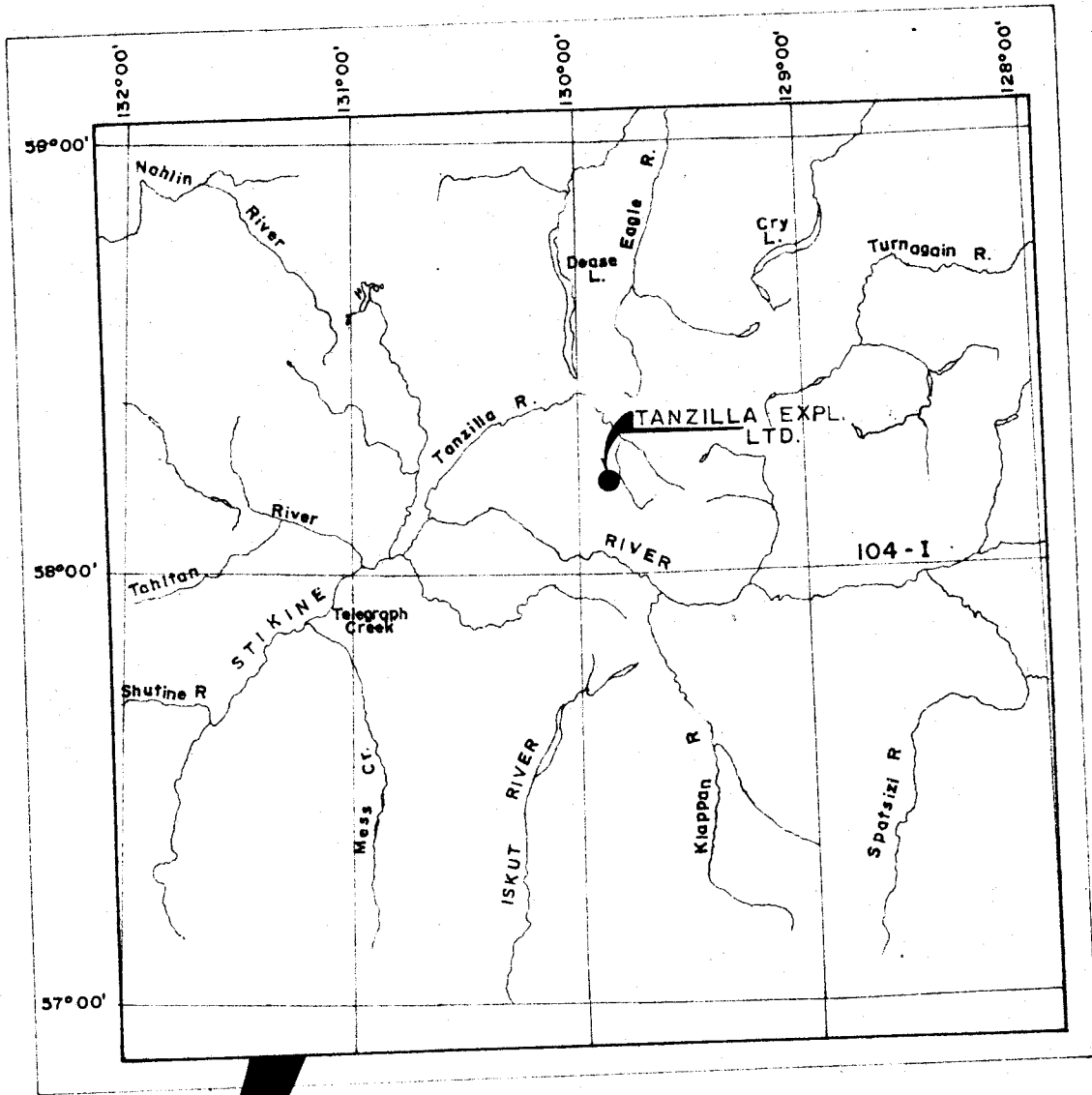
OCT 26 1971

day of

A.D.

[Signature]
S. J. Phillips

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

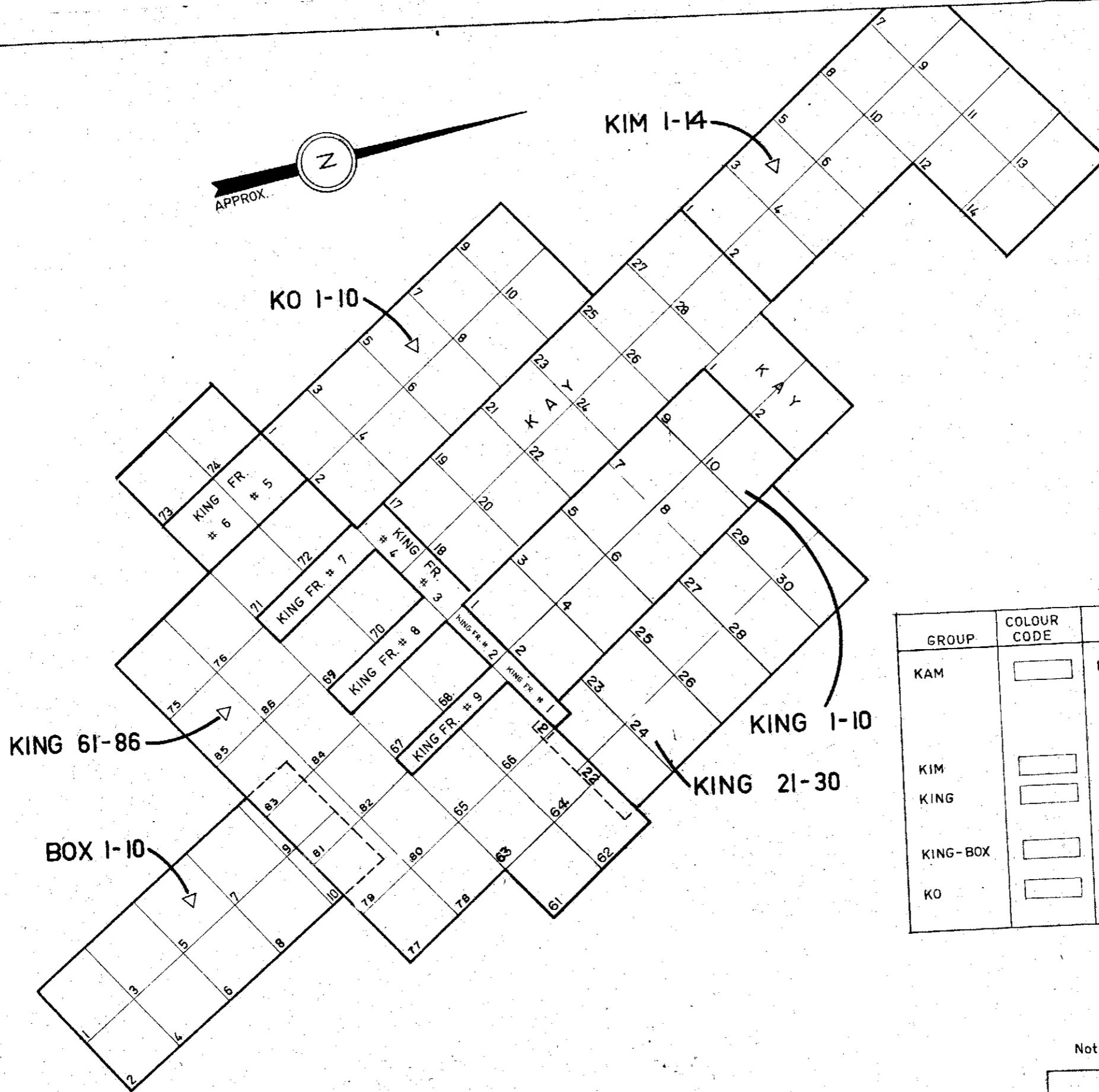


Department of
 Mines and Petroleum Resources
ASSESSMENT REPORT
 NO. 3312 MAP #1 *Sevensma*

TANZILLA EXPLORATIONS LTD	
LOCATION	MAP
104-1-5*	
Liard M.D.—B.C.	
P. H. Sevensma Consultants Ltd. Vancouver, B.C.	
revised:	
Aug. 1970	Aug. 25, 1971
Scale:	0 30 miles

Dwg. No.

Fig: 1



Department of
 Mines and Petroleum Resources
ASSESSMENT REPORT
 NO. 3372 MAP #2

GROUP	COLOUR CODE	CLAIMS & TOTAL	WORK FILED	RECEIPT No.	EXPIRY DATE
KAM	<input type="checkbox"/>	KAY 182; 17-28 (14)	Aug 25/71	55974 E	Aug 25 /73
KIM	<input type="checkbox"/>	KIM 1-14	"	"	Nov. 18/71
KING	<input type="checkbox"/>	KING 1-10 KING 21-30 KING 61-86 } 40	Dec. 17/70	51452 E	Dec. 20/72 Dec. 20/72 Mar. 3/73
KING-BOX	<input type="checkbox"/>	KING 81-86 BOX 1-10 } 16	"	"	Mar. 3/72 Feb. 15/72
KO	<input type="checkbox"/>	KO 1-10 KING FRACTIONS 1-9 } 19	"	"	Nov. /71 Nov. /71

P. H. Sevensma

To accompany a report by
 P.H. Sevensma dated Oct. 15/71

Note: Data compiled Oct., 1971

TANZILLA EXPLORATIONS LTD
CLAIMS LOCATION PLAN & CLAIMS DATA
 Liard M.D. B.C. 104-1-5
 Peter H. Sevensma Consultants Ltd. Vancouver, B.C.

Dwg No.

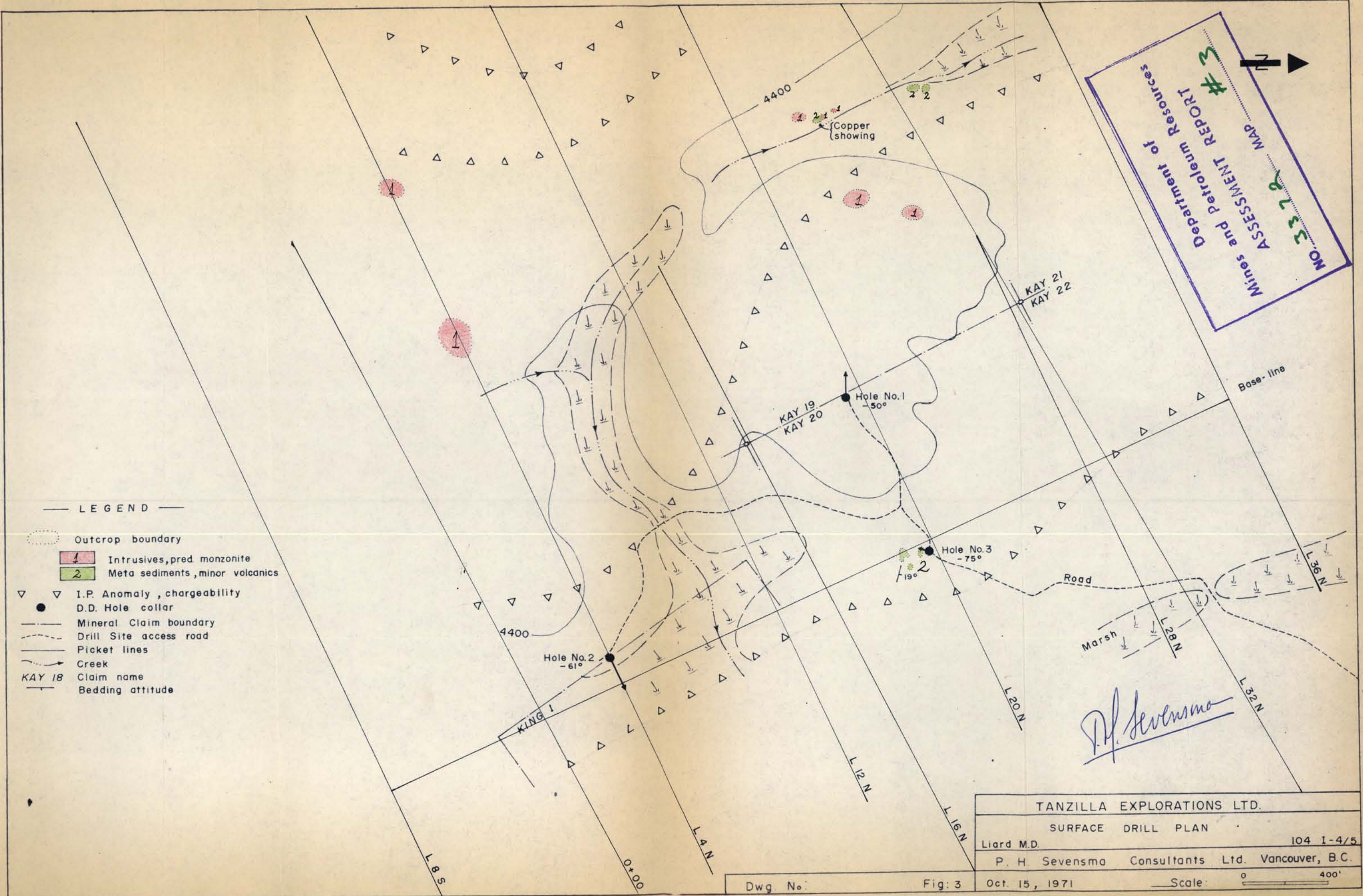
Fig: 2

Oct. 15, 1971

Scale: 0 2500'

NO. 3378 MAP
 ASSESSMENT REPORT
 Mines and Petroleum Resources
 Department of Resources

- LEGEND —
- Outcrop boundary
 - 1 Intrusives, pred monzonite
 - 2 Meta sediments, minor volcanics
 - I.P. Anomaly, chargeability
 - D.D. Hole collar
 - Mineral Claim boundary
 - Drill Site access road
 - Picket lines
 - Creek
 - Bedding attitude
 - Claim name



P. H. Sevensma

TANZILLA EXPLORATIONS LTD.	
SURFACE DRILL PLAN	
Liard M.D.	104 I-4/5
P. H. Sevensma Consultants Ltd. Vancouver, B.C.	
Dwg. No.	Fig: 3
Oct. 15, 1971	Scale: 0 400'