

DONNER LAKE PROPERTY

Report on Geological investigations
and drilling results.

DONNER, HEBER, WHITE RIDGE, DONNER LAKE,
COPPER QUEEN, COPPER KING CLAIMS,
ALBERNI, B. C. MINING DIVISION.

Long. 125° 57'W, Lat. 49° 45'N

NTS coordinates 5516950 N, 289000 E.

UTM

NTS 92F/12W

OWNER: Mount Alta Projects Ltd.

OPERATOR: CON-AM Resources Ltd.

CONSULTANTS: Stokes Exploration Management Co.Ltd.

JoAnne Nelson, MSc.

John G. Payne, PhD.

December, 1979.

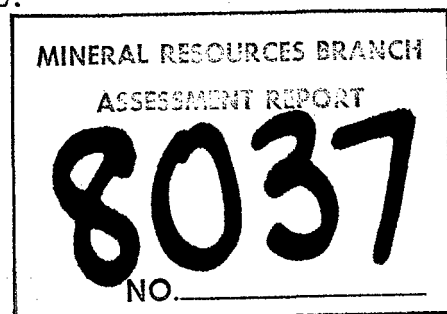


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		JoAnne Nelson, MSc.	
		John G. Payne, PhD.	
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SUMMARY

The Donner Lake Property was mapped at a scale of 1:5000. It is underlain by Karmutsen basalts, Quatsino Limestone, and intrusive rocks. These provide a typical Vancouver Island skarn setting. The 23 mapped skarn occurrences are scattered within all three major rock units and at their contacts. Several of the skarns within the Karmutsen basalts are conformable, occupying highly amygdaloidal flow tops.

The skarns consist primarily of magnetite and garnet with strong epidote concentrations in surrounding basalts. A few of them contain chalcopyrite.

Drilling was carried out on the most significant of the conformable skarns. The skarn and/or associated silicified chalcopyrite-bearing basalt was encountered in all 5 holes. It is less than 3 meters thick over an area of 80 x 30 meters; the average grade is .29% Cu. Ag and Au values are negligible.

Although the full extent of the skarn horizon was not defined by drilling, it is not economically promising enough to merit further expenditures at this time.

INTRODUCTION.

At the request of Mr. Larry G. Seeland of CON-AM Resources Ltd., and following a preliminary research report by Mr. Ron Stokes (March 1979), Stokes Exploration Management Corporation undertook a field program on the Donner Lake property to evaluate its economic potential. Crews were on the property from September 29 to November 21, 1979. The program consisted of three phases:

- 1) Geology: Detailed mapping of significant skarns; mapping of the property at 1:5000 scale and prospecting for additional skarns (5.5 km²). Twenty-nine samples were taken for analysis during this work.
- 2) Magnetometer grid surveys, to extend a ground magnetometer survey done in 1978; and on more detailed scales to trace extensions of selected skarns. A total of 4 km of grid were laid out and surveyed. This work is not being claimed for assessment credit.
- 3) Diamond drilling on the subsurface continuation of the main copper skarn showing near the southeast corner of the property, to assess its size and grade (5 AX holes totalling 166 m).

LOCATION AND ACCESS.

The Donner Lake claims (Fig: I.) are located on White Ridge, adjoining the western boundary of Strathcona Park. They lie at longitude 125° 57' west, latitude 49° 45' north on map sheets 92F 12 and 13 west. The claim group is shown in detail on Fig: 2.

The claims can be reached via the Ucona logging road which joins Highway 19 approximately 8 miles east of Gold River, B.C. The logging roads are not maintained at present. Where not washed out they are still accessible to 4-wheel drive vehicles.

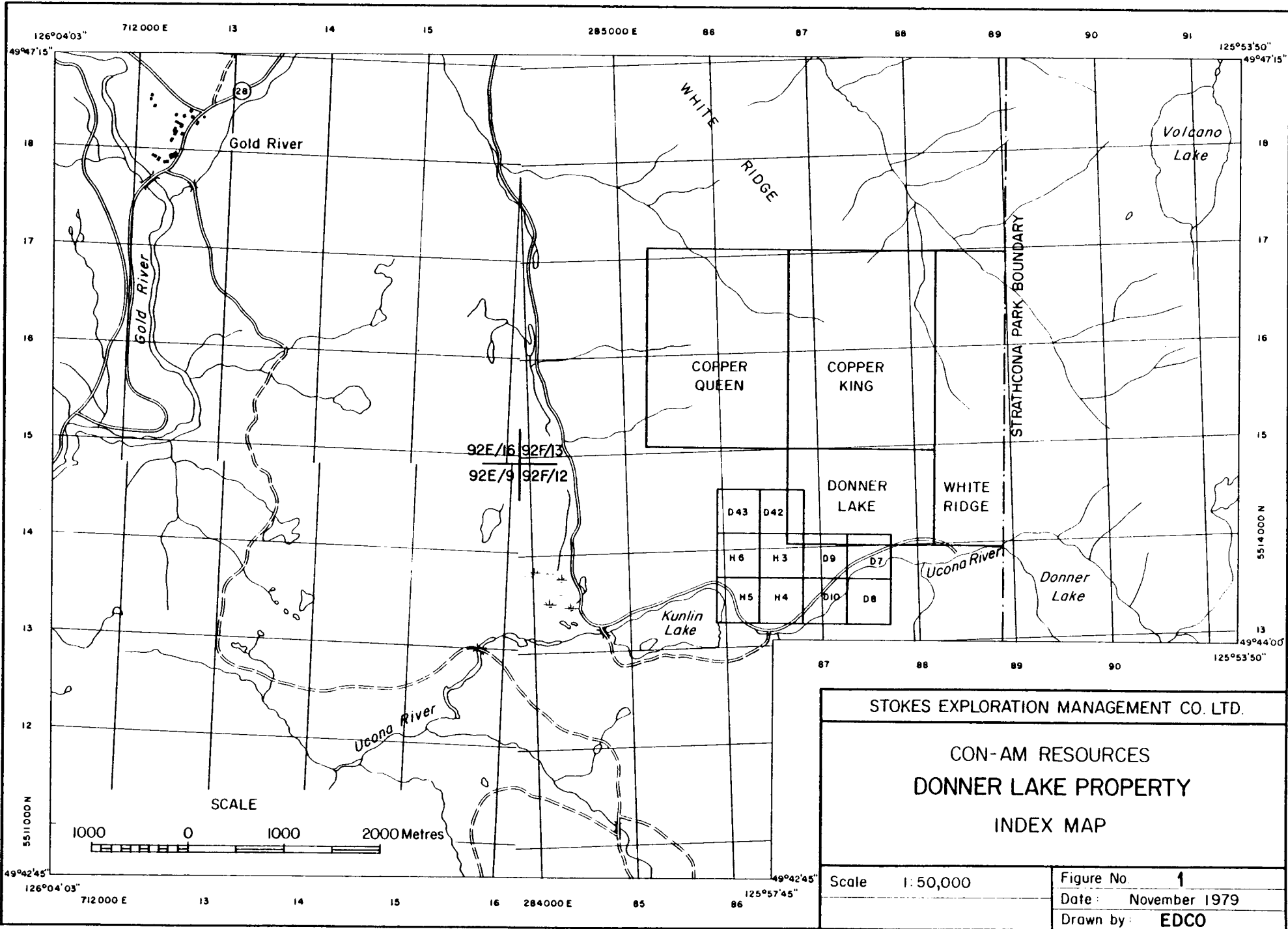
PHYSIOGRAPHY.

The southern part of the claim group, between 800 and 1000 m elevation, lies on moderate, logged slopes. Outcrop is sparse to good. Further north, where the flanks of White Ridge steepen to 35 - 45°, cliffs provide excellent exposure. This area is heavily forested, as is the crest of White Ridge at 1400 m elevation.

HISTORY OF PROPERTY.

1963: Staked as Gam claim group for Mastodon/Highland Bell Mines, after prospecting and mapping by E. Wozniak. At this time it was considered as an Fe target.

1964: Further mapping/prospecting and magnetometer surveys on Gam Group by W. R. Bacon and E. Wozniak.



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CON-AM RESOURCES
DONNER LAKE PROPERTY
INDEX MAP

Scale 1:50,000

Figure No. 1
Date: November 1979
Drawn by: EDCO

1971-73: Property restaked as Donner-Heber claims by Walter Babkirk; continued prospecting with interest in Cu.

1973: W. M. Morrison retained by W. Babkirk and L. Hurtubise to investigate Cu potential. Soil/water geochemical survey of Ucona River drainage showed anomalous copper.

1975: Three diamond drill holes along Road 140 east of small skarn exposure (Skarn 2 on Fig: 2). Babkirk reported " 25 feet of good ore " from these holes; however, the core was not logged and is unavailable for inspection.

1978: Mount Alta Projects Ltd., purchased Donner and Heber claims from Walter Babkirk. J. H. Simpson was retained to evaluate the property. During the three month summer program his crews surveyed logging roads to improve base map control, staked the Copper King - Copper Queen - White Ridge - Donner Lake claims, conducted magnetometer and VLM-EM surveys over selected target areas, and did a few assays on higher grade zones. Simpson's report (1979) also summarizes the previous work on the property.

1979: CON-AM Resources Ltd., optioned the property from Mount Alta and retained Stokes Exploration Management Corporation to evaluate its mineral potential. A summary report on previous work was submitted by Mr. Ron Stokes in March. The field program began September 29. Geologists were John G. Payne and JoAnne Nelson, assisted by fieldmen Peter Kulich and Brian Hatelt. The drilling contract was fulfilled by Drilcor Ltd. The program described as follows meets claim assessment requirements for the years 1979, 1980 and 1981.

CLAIM DESCRIPTION AND STATUS

PROPERTYDESCRIPTION OF CLAIMS.ALBERNI MINING DIVISION.

<u>CLAIMS</u>	<u>REGISTERED OWNER</u>	<u>RECORD NO.</u>	<u>RECORD DATE.</u>	<u>VALID TO.</u>
Donner No. 5	Pete Chapco	17979	14th June, 1971	1979
Donner No. 6	Pete Chapco	17980	14th June, 1971	1979
Donner No. 7	Bill Scott	17981	14th June, 1971	1979
Donner No. 8	Bill Scott	17982	14th June, 1971	1979
Donner No. 1	Walter Babkirk	17756	26th May, 1971	1979
Donner No. 2	Walter Babkirk	17757	26th May, 1971	1979
Donner No. 3	Walter Babkirk	17758	26th May, 1971	1979
Donner No. 4	Walter Babkirk	17759	26th May, 1971	1979
Heber No. 3	Walter Babkirk	19173	6th July, 1972	1979
Heber No. 4	Walter Babkirk	19174	6th July, 1972	1979
Heber No. 5	Walter Babkirk	19175	6th July, 1972	1979
Heber No. 6	Walter Babkirk	19176	6th July, 1972	1979
Donner No.42	Walter Babkirk	20159	29th June, 1973	1979
Donner No.43	Walter Babkirk	20160	29th June, 1973	1979
Copper King No.231	J. H. Simpson	12 Units	16th June, 1978	1979
Copper Queen No.232	J. H. Simpson	12 Units	16th June, 1978	1979
Donner Lake No.239	J. H. Simpson	6 Units	27th June, 1978	1979
WhiteRidge No.248	J. H. Simpson	12 Units	22nd Aug., 1978	1979

The Donner 1-8, Donner 42 and 43, and Heber 3-6 claims are owned by Mont Alta Projects Ltd. The said claims were purchased June 27th, 1978. (See appendix for copy of Bill of Sale). This Bill of Sale has not yet been recorded at the Mining Recorder.

GEOLOGY AND MINERALIZATION.

1979 Program objectives.

The 1979 geological program contributed to the choice of drilling targets by 1) accurate map location and detailed examination of known skarns and 2) thorough mapping/prospecting of the property and its vicinity to document additional skarn occurrences. General mapping was done on 1:5000 enlargements of government 1:50,000 topographic sheets; poor control on these and on the 1:10,000 geology map (Simpson 1979, after Bacon 1963) necessitated a partial resurvey of the road and relation of geology to small-scale features such as gullies and meadow areas (sketched on Fig: 2). Detailed grid maps were produced for three skarns (1/2, 3 & 4); 3 because of its large size; the other two because of significant Cu-content.

GENERAL GEOLOGY.

The skarn environment on the Donner Lake Property is typical of Insular Belt Fe-Cu skarn deposits (e.g. Texada Mines, Coast Copper). The following rock units underlie the property. (Fig: 2).

- A. Upper Karmutsen Fm, (UTr)(Map Unit 1). Flow basalt, with or without phenocrysts, amygdules (1a,1b,1c). Minor intervals of pillow basalt, (1e) pillow breccia (1f), thin-bedded volcanic siltstone, and marble (Intervolcanic Limestone) (1g). Basalts are hornfelsed in hornblende hornfels facies near non-faulted plutonic contacts.
- B. Quatsino Limestone, (UTr)(Map Units 2,2a). Generally massive to coarse grained marble with local graphitic banding.
- C. Parson Bay Fm, (Map Unit 2b). Thin-bedded calcareous siltstone and siltstone with small marble lenses.
- D. Andesitic dikes cutting Karmutsen basalts, which themselves are hornfelsed and thus preplutonic (not shown on Fig: 2).
- E. Island Intrusions, (M.J)(Map Unit 3). A multiphase pluton, dominantly homogeneous quartz diorite with lesser diorite and granodiorite. Aplite and pegmatite are very rare.
- F. Skarn, (Map Unit 4). Composed mainly of magnetite and garnet. Some skarns contain chalcopyrite and one, sphalerite. Skarn occurs in four distinct lithologic environments, described below.
- G. Map Unit 5. Post plutonic dikes of andesitic composition, which concentrate around the margins of the Island Intrusion.

STRUCTURE.

Where measureable, bedding attitudes in the Karmutsen flows are gentle, as are dips of conformable skarns in the southern White Ridge claim group. By contrast, most basalt/marble contacts dip near-vertically. This is suggestive of fault relationships. The occurrence of Karmutsen

rocks to east, west and south of Quatsino limestone represents either repetition across NNW trending faults on a large syncline. The core of this structure has been invaded by the plutonic body, which itself is elongated in a NW direction. Major topographic features (eg White Ridge) reflect the regional structural grain.

Faulting occurred both before and after emplacement of the Island Intrusion. Preplutonic faults that separate Karmutsen and Quatsino rocks show sporadic skarn development (cf skarn No.9). The major post-plutonic fault at its southern limit separates intrusive rocks from stratified units; further north it separates basalt and limestone without intervening skarn.

GEOLOGIC HISTORY.

Upper Triassic vulcanism produced the iron-rich basalts of the Karmutsen Formation. Analyses of these basalts from the Alberni map-area show 11-14% total Fe-oxides (Muller et al 1974). Vulcanism was shortly succeeded by the deposition of the Upper Triassic Quatsino Limestone and thin-bedded Parson Bay sediments in a quiescent tectonic environment undergoing gentle subsidence (Carlisle and Suzuki 1974).

Deformation of the Vancouver Island Mesozoic sequence began in the Middle Jurassic (Muller et al 1974). The massive Karmutsen pile tended to deform by faulting rather than folding. At least two of its contacts with the Quatsino Limestone on the Donner Lake property are preplutonic faults.

The quartz diorite/diorite/granodiorite body on the property is one of the Island Intrusions of Middle Jurassic age (Carson 1973). Its contact effects include hornfelsing of the basalts (the hornblende hornfels facies in generally less than 100 m wide). sporadic recrystallization in the Quatsino Limestone to very coarse marble, and development of skarns.

Emplacement of dikes around the margins of the pluton, post-plutonic faulting, and late Mesozoic-Cenozoic erosion completed the geologic history of the Donner Lake area.

SKARNS - DESCRIPTION and analytical results.

Numerous small skarn bodies developed where plutonic rocks, basalt and limestone occur in close proximity. They occupy four distinct lithologic environments:

- A) Within Karmutsen basalts.
- B) On Karmutsen-Quatsino contacts.
- C) Within Quatsino Limestone.
- D) On Plutonic/Quatsino contacts.

These are described in the table below by category and individually.

Results of analyses are shown both in Table I and on Fig. 3.

TABLE I. List of skarns by environment. (Refer to Fig: 2 for numbered locations).

* (Asterisk) indicates visible Cu or Zn mineralization.

Abbreviations: (see below)

- A. Enclosed within Karmutsen basalts. No immediately adjacent limestone or plutonic exposure. Most occur in southern White Ridge claim group, in outer hornblende hornfels and greenschist facies. Major occurrences are tabular to lenticular, gently dipping, and conformable to bedding in the basalts which enclose them. This is the only type of skarn on the claims with economic potential.

* 1 - 2 (Figs 4, 5) 3 small outcrops with covered extension
(see drilling results).

(Simpson's locations L,K) ga - mt - ep - act - cpy.

4 x 2 m (1) cpy generally 1 - 2%, much higher in

4 x 1 m (2) patches and veins.

Skarn 1. Approximately 2% patchy cpy. Coarse magnetite banding parallel to contact, dips SW at about 20°. Contact areas show high ep enrichment as vein swarms, in amygdules. Country rock highly amygdaloidal.

Skarn 2. (Fig 5) Contact dips about 15° E. Highly variable textures, showing multistage development. Examples:
- mt vein set in silicified (lb) cut off, surrounded by massive ga-ep-mt skarn.
- ½ - 1 cm cpy veins cut mt band in ga skarn
- skarn surrounded by patchy pale green silicification in amygdaloidal basalt, cpy in amygdules.
- Qz veins cut ep veins in area around skarn.
- mt coats late fractures in skarn, some of which show slight displacement.

Abbreviations - Table 1.

act	-	actinolite	sk	-	skarn
cc	-	calcite			
cpy	-	chalcopyrite			
ep	-	epidote			
ga	-	garnet			
mt	-	magnetite			
py	-	pyrite			
qz	-	quartz			
px	-	pyroxene			
sph	-	sphalerite			

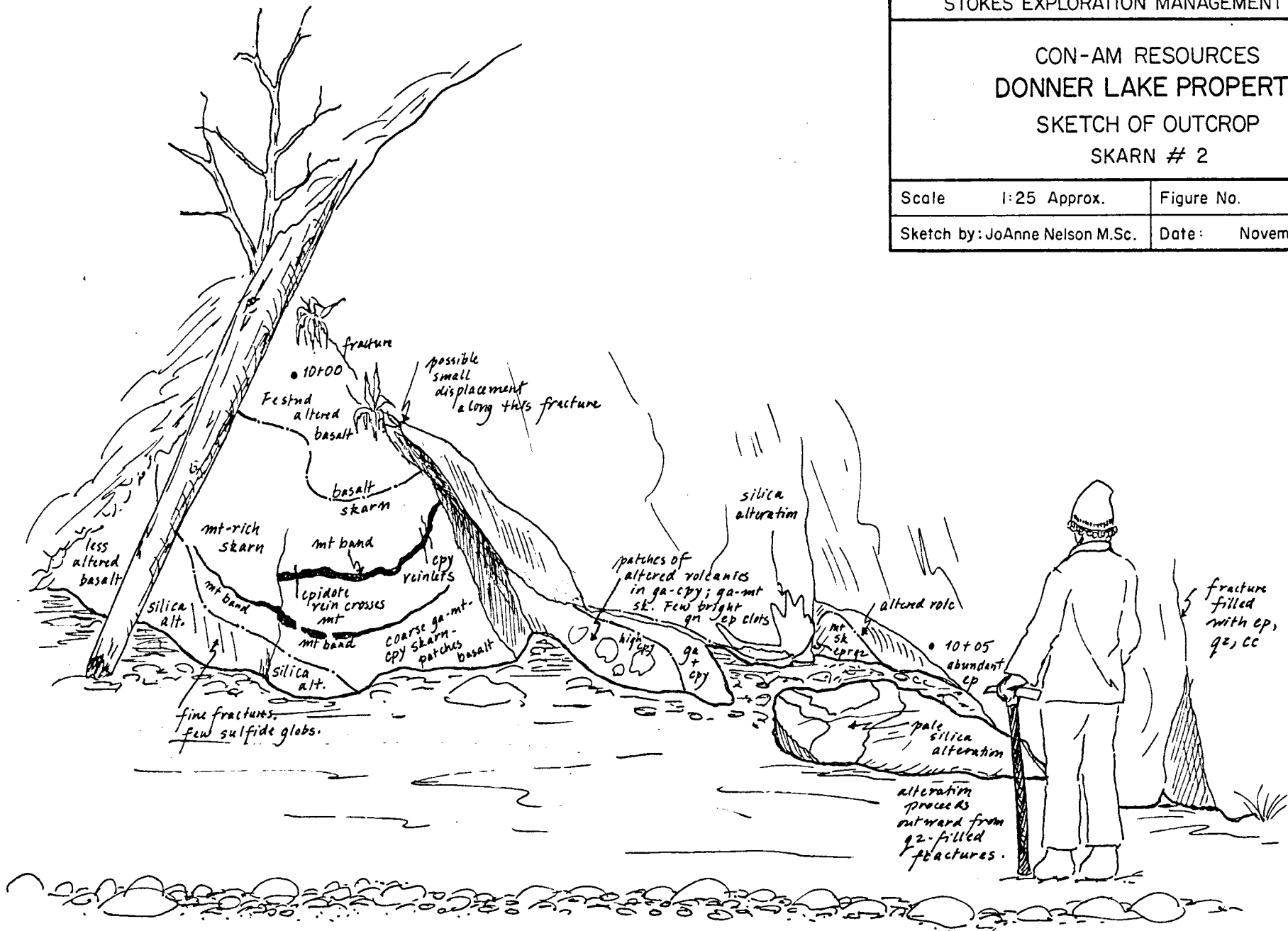
CON-AM RESOURCES
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SKETCH OF OUTCROP
SKARN # 2

Scale 1:25 Approx.

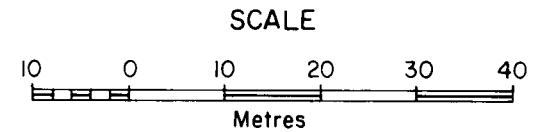
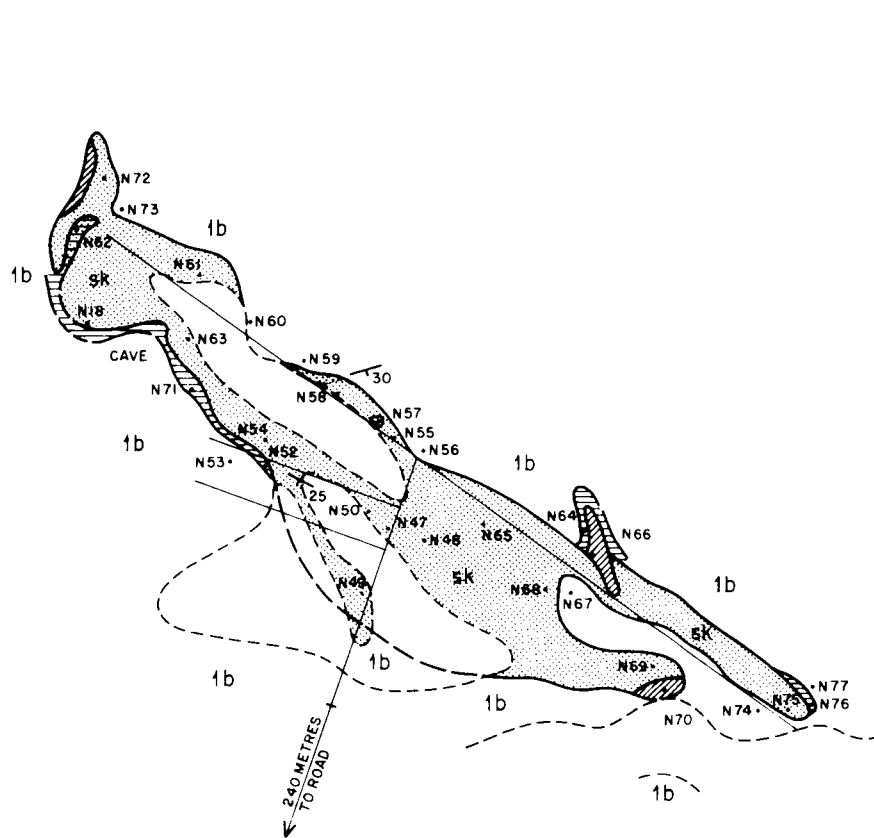
Figure No. 5

Sketch by: JoAnne Nelson M.Sc.








Date: November 1979



3. (Fig. 6) .
135 x 20 m
Sample Cu Ag Au
No. (ppm) (ppm) (ppb)
13790 975 34 5
13796 3580 44 20
- * 4. (Fig. 7)
(Simpson's
location
2 x 40 m
Sample Cu Ag Au
No. (ppm) (ppm) (ppb)
13786 2680 21 5
13787 525 32 5
13788 580 30 5
13791 162 32 5
13793 200 24 5
13808 48000 210 5
13809 240 44 5
13813 167 47 5
13814 153 28 5
- 4a.
30 x 10 m
13792 109 28 5
5. 3 x 8 m
(exposure)
13800 80 23 15
6.
5 x 10 m ?
- *7.
- *8.
2 x 15 m
- B.
9. (Simpson's locations
C-D-E). Along contact
for 500 m thickness for
most of length less than
2 m. One septum in basalt
19 x 50 m.
- 10.
- 11.
- tabular, dipping gently east
ga - mt
- delicate mt lamellae in ga
- mt pods, veins
- partial ep halo
- tabular, flat-lying.
mt - ga - cpy
- partial ep halo
- dominantly mt; some areas delicate-to coarse
banded ga with mt
- cpy as patches and veins in area about 10 m long.
Grab sample from boulder below this assayed
10.75% Cu, (Simpson 1979).
No visible cpy elsewhere along strike.
- covered to east, may join 4a. Covered
to west, 69 m from post-plutonic fault,
presumably truncated along this fault.
- mt with bands, irregular concentrations of
garnet; pyritiferous ep.
- above basalt, gently SW dipping, conformable.
- cliff exposure -vertical trend parallel to
cliff-face (vein-type body). Steep ep - mt
veins in surrounding basalt.
ga - mt
- Coarse to fine grained mt ga; some massive ga.
Small patches py, cpy.
- Road cut exposure. Tabular, gently dipping E.
mt, minor cpy - py.
- On Karmutsen - Quatsino contacts. Very
sporadic occurrences. Cu-stains common but
visible cpy rare.
- mt; ga-mt with poor banding
sparse Cu-stains along lower
part of contact, punky weathering
pyritic silicification and ga - ep -
px skarn, no mt.
- small occurrence mt float in covered karst
area near basalt.
- ep skarn with mt patches



LEGEND

- | | | | |
|-------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------|
|  | magnetite ± ga skarn |  | Outcrop boundary |
|  | garnet-magnetite skarn |  | Contact, dashed where approximate |
|  | epidotized basic volcanics |  | N 53 Station number |
|  | dark green basic volcanics:
karmutsen formation, | | |

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CON-AM RESOURCES
DONNER LAKE PROPERTY
DETAILED GEOLOGY
SKARN # 3

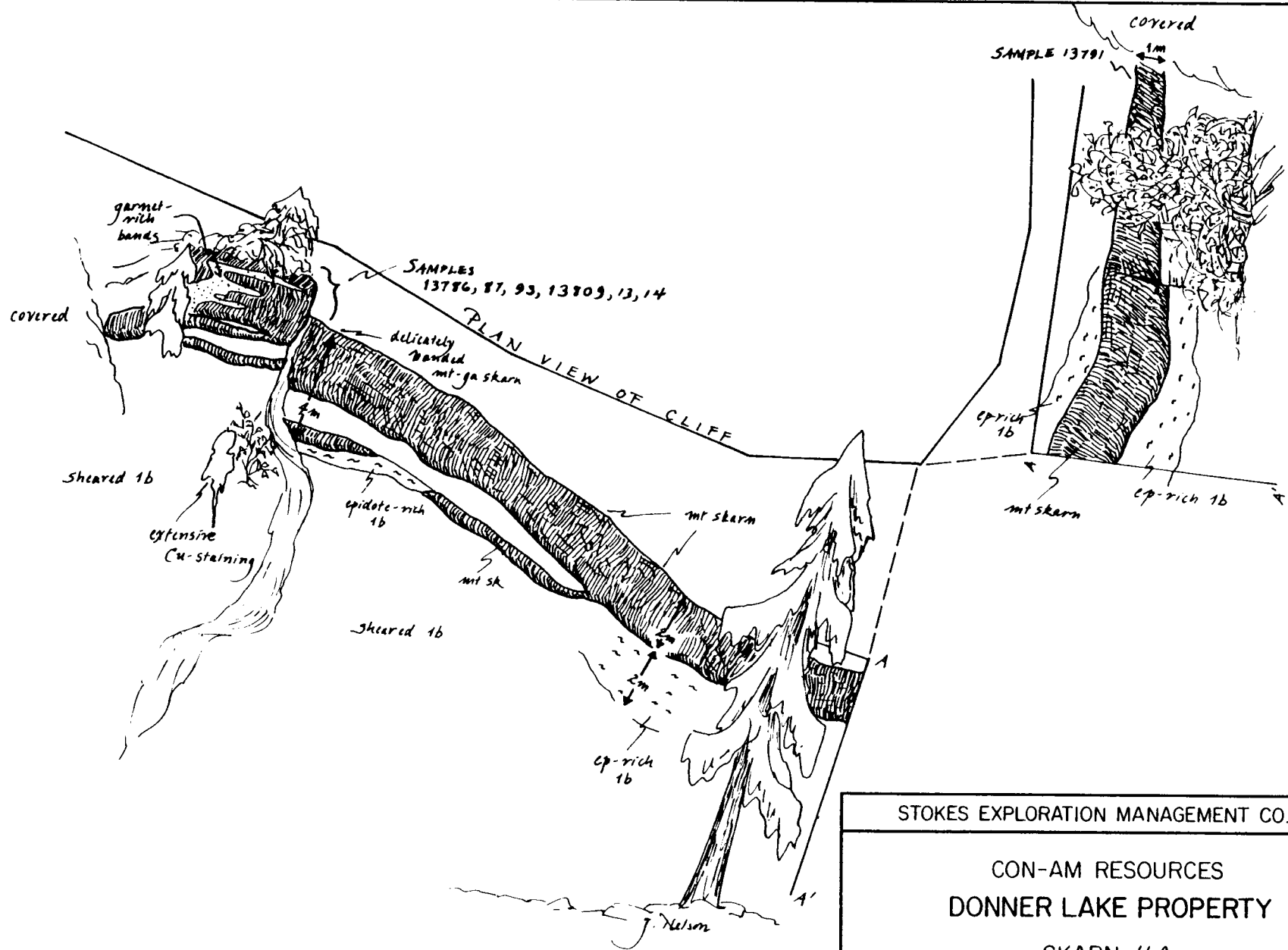
Scale 1:790

Figure No. 6

Geology by: JoAnne Nelson M.Sc.

Date: November 1979

Drawn by: EDCO



SCALE



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CON-AM RESOURCES
DONNER LAKE PROPERTY

SKARN # 4

Scale	1:200	Figure No.	7
Sketch by	JoAnne Nelson M.Sc.	Date:	November 1979

(11)

12. mt-ga skarn.

13. In interlava sediments occurring between Karmutson basalt flows (thin-bedded volcanic siltstone, pillow breccia, marble). Close to Quatsino marble and plutonic rocks. Variable textures.

	Sample No.	Cu (ppm)	Ag (ppm)	Au (ppb)
(1)	13797	190	20	5
(2)	13801	13500	230	1750
(3)	13802	355	26	50

(1) cc-py-qz sk

(2) mt vein w/py,
cpy patches

(3) cc-py sk

- coxcomb qz
- massive ga
- cc replacement of basalt pillows with interstitial py.
- massive conformable mt-py
- mt-py and ga-ep veins to 20 cm wide.

* 14. Along vertical pre-plutonic fault. Steep mt banding parallel contacts.
300 x 10 m mt-ga, minor cpy. Abundant Cu-stains.

	Sample No.	Cu (ppm)	Ag (ppm)	Au (ppb)
(1)	13799	5050	31	15
(2)	13806	133	28	10

(1) mt sk - minor cpy

(2) ga sk; mt sk

C. Within Quatsino Limestone - Pods, generally very small.

* 15. Accompanied by small inliers of basic volcanic or dike rock.
series of small exposures, largest 4 x 10 m ga - minor mt, cpy. Cu-stains on fractures.

16. Massive mt associated with basalt inliers.
(Simpson's location G and possible H) Series of small outcrops, some with actinolite.
50 x 50 m

D. On plutonic - Quatsino contacts. Developed sporadically, especially in warps and embayments. Only one skarn (23) contains Zn-Cu mineralisation.

17. Patches and lenses associated with small basalt bodies.
to 10 m.

	Sample No.	Cu (ppm)	Ag (ppm)	Au (ppb)
(1)	13810	166	24	10

(1) amph-mt; mt sk

18. mt endoskarn
small

19. small mt
20. small coarse mt
21. small mt skarn, not seen in 1979 mapping.
22. small mt skarn, not seen in 1979 mapping.
- * 23. 10 x 50 m
At sheared contact with andesitic dikes. Both endo- and exo- skarn.
ga - ep - amph - mt - py - sph
massive sph - py - cpy boulders upto 1 m diameter in road cut below small gossan zone.
- | Sample No. | Zn % | Cu (ppm) | Ag (ppm) | Au (ppb) |
|------------|------|----------|----------|----------|
| (1) 13794 | | 5100 | 175 | 55 |
| (2) 13811 | 17.4 | 435 | 43 | 5 |
- (1) sph bldrs.
(2) sph bldrs.
24. 5 x 5 m coarse mt.
- | Sample No. | Cu (ppm) | Ag (ppm) | Au (ppb) |
|------------|----------|----------|----------|
| (1) 13805 | 142 | 35 | 140 |
- (1) mt sk
25. series of small pods associated with silicification in complicated contact area.
ga - cp - px - cc - py
26. endoskarn in 3b with abundant andesite dikes, which cut skarn - vuggy.
ga - cp - px - amph - cc - qz - py - cpy; minor Cu-stains.
- | Sample No. | Cu (ppm) | Ag (ppm) | Au (ppb) |
|------------|----------|----------|----------|
| (1) 13804 | 15000 | 161 | 700 |
- (1) ga - cp - cpx - amph - cc - qz - py - cpy; minor Cu-stains.

Origin of Skarns.

The occurrence of skarns along plutonic contacts and in stratified rocks near the intrusion suggests that they formed during contact metamorphism. Different mechanisms probably operated in their formation. Those at limestone contacts and within limestone resulted from interaction of rock with local pore fluids.

Those entirely within basalts (Category A) must have involved a more regional fluid system. Fluids carrying excess Fe, Cu, and S deposited them in structural/lithologic traps: in fractures and, more importantly, parallel to bedding. The country rock immediately around skarns 1 and 2 is abnormally vesicular, a feature typical of the tops of flows. Skarn formation is accompanied by silicification and/or epidotization of the country rock (see also skarns 3 and 4) and deposition of chalcopyrite in vesicles.

Jolly and Smith (1972) note that highly vesicular flow tops in a Precambrian basalt series are favored sites for epidote concentration during burial metamorphism, because of their relative high porosity. The idea that flow tops, being porous, serve as fluid pathways in massive basalt piles, is an attractive explanation for the morphology of the Category A Skarns.

The fluids, although possibly in part magmatic, probably acquired metals from the basalts themselves; Karmutsen basalts are much higher in Fe and Cu than the Island Intrusions. Asihene (1970) notes impoverishment of Fe in Karmutsen basalts in the hornblende hornfels zone of contact aureoles on Texada Island. He suggests that iron entered a circulating fluid phase to be deposited as magnetite skarns at catchment sites further from the intrusion. The erratic distribution of chalcopyrite may indicate either variation in pre-plutonic copper contents in local environments of the skarns, or an erratic supply of S_2 , or both.

In summary, Donner Lake skarns formed either by local reactions involving limestone and silicate pore fluids, or by deposition out of circulating fluids at suitable traps such as flowtops or fractures in the basaltic pile.

The nature of Skarn 1 - 2 is discussed further under drilling results.

Magnetometer Surveys.

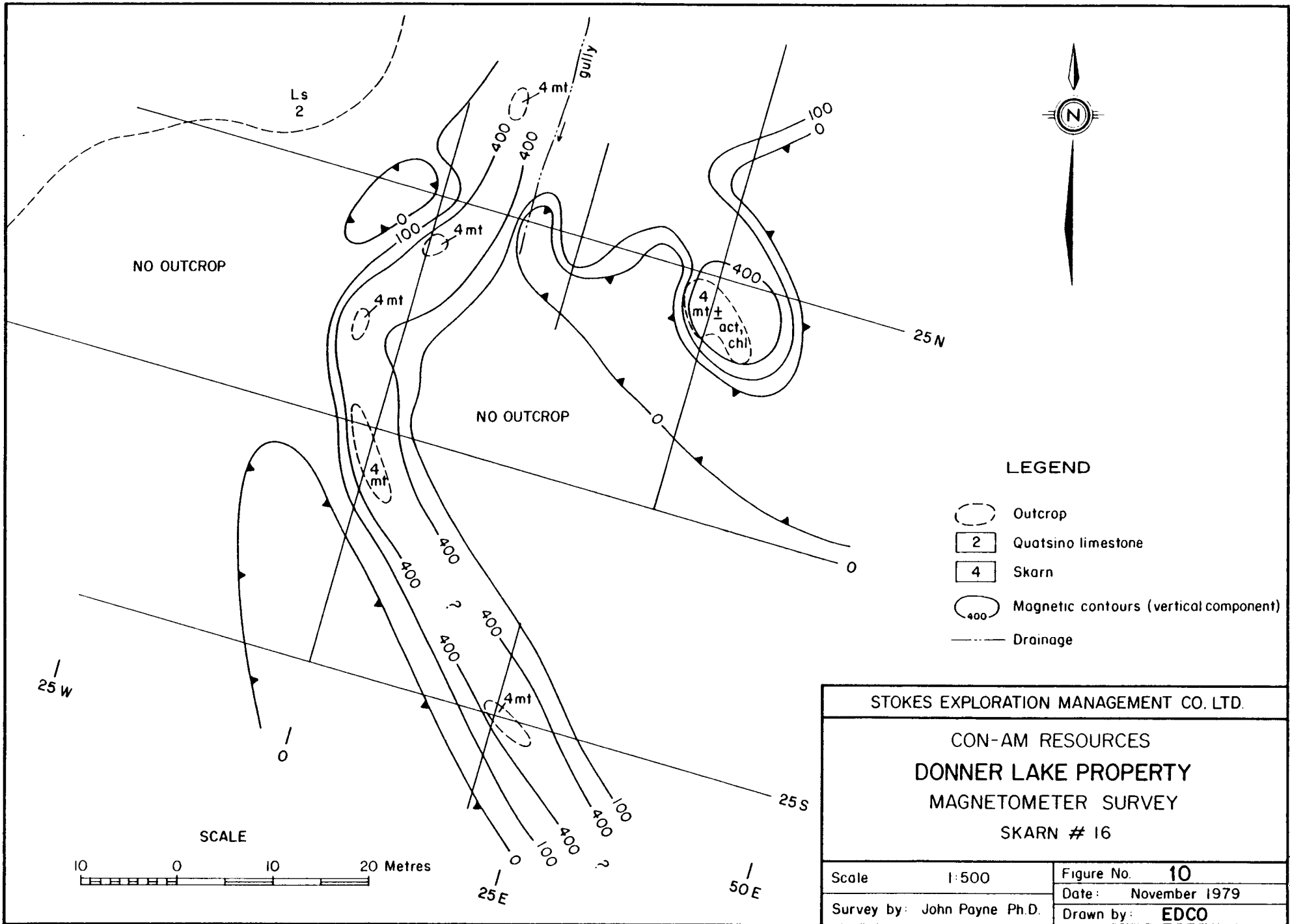
All surveys were conducted using a Scintrex Model MF-1 fluxgate magnetometer.

The following magnetometer surveys were done:






1. Large-scale (25m. station intervals) on south end of White Ridge claim, to extend the 1978 survey (Figure 8). Results of the 1978 survey were replotted and fitted as well as possible to results of this survey.
2. Detailed survey (5 m. station interval) over the region of skarns 1 and 2 (Figure 9).
3. Detailed survey (5 m. station interval) over region of Skarn 16 (Figure 10).

Results.

1. The broad high in the central part of the grid correlates reasonably well with a zone of outcrop of Karmutsen basalt, in part at least metamorphosed in the hornblende-hornfels facies, and in part containing up to 3% magnetite. The available distribution of magnetite, and topographic and overburden effects combine to give an irregular distribution of anomalies. Comparison with the detailed grid results (see below) suggests an even larger local variation than suggested in the more regional scale. The magnetic low in the northeast correlates with a large talus cone, and that to the west correlates with the faulted contact between the basalt and quartz diorite. Variable development of magnetite may also cause some anomalies, especially "one-reading" highs. Skarns do not show as continuous zones in this survey, but give local highs only over the outcrop areas.



LEGEND

-  Outcrop
-  Quatsino limestone
-  Skarn
-  Magnetic contours (vertical component)
-  Drainage

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CON-AM RESOURCES
 DONNER LAKE PROPERTY
 MAGNETOMETER SURVEY
 SKARN # 16

Scale	1:500	Figure No.	10
Survey by:	John Payne Ph.D.	Date:	November 1979
		Drawn by:	EDCO

2. This detailed survey using 5 m station intervals attempted to follow skarn 2 to its subsurface extension. For the most part this skarn zone is too thin and lacking in magnetite to show through the covering basalts. Two closed highs in the debris-covered area west of skarn 2 may be related to skarn occurrences, or may reflect local magnetite concentrations in the basalt.
3. Skarn 16 consists of a few small massive to banded magnetite-rich skarn outcrops in a mainly covered area near the ridge top. The magnetometer survey was designed to trace the extent of the body. The pattern of anomalies shows that magnetite is largely confined to the area of the outcrops and that the covered area probably is underlain by limestone. Magnetic anomaly H reported by Simpson 1979, although shown within basalt, plots here with respect to claim boundaries. Drilling on the anomaly was recommended by Simpson, (1979). However, the small extent of the body as proved by the magnetic survey, lack of visible chalcopyrite, and inaccessibility argue against its choice as a target.

Results of Drilling program.

Of the exposed skarns, Cu mineralization at locations 1 and 2 is the most promising on the property. A drilling program was carried out in 1975 by Walter Babkirk with holes sited along the road to 700 ft (227m) to the east of Skarn 2. Babkirk reported "good ore"; however the core was unlogged and unavailable for reexamination. It was decided to redrill the area this year.

The 1979 program totalled 544 ft (166m) in five holes (Figs. 11,12.) The skarn/altered zone with significant Cu-mineralization encountered in these holes is roughly planar, 125/15 S.W. Thickness varies from .3 to 3.1 meters. Fig. 1 extends for at least 80 m EW 30 m NS.

There are two distinct types of alteration and mineralization within the body; skarn and silicification of highly vesicular basalt. The skarn is identical to that in the surface exposures, consisting of garnet, magnetite and epidote with chalcopyrite in patches, veins and disseminations.

Pale green silicified amygdaloidal basalt occurs immediately below (and in Hole 1a immediately above) the skarn. Chalcopyrite in vesicles and veinlets within these silicified basalts totals about 1% to, locally, 3% of the rock.

Assays of mineralized sections (Table 2) range from .134 to .878% Cu, with a weighted average (taking the length of analysed sections into account) of .29%.

In hole 4 scattered occurrences of chalcopyrite and native copper in vesicles and fractures underline the ore zone between 26 and 50 m depth. Although generally of very low-grade (.01% or less), these occurrences may be indicative of a more widespread system.

T A B L E 2.Assay Results for Selected Core Samples.

(For locations of samples within holes see Fig.12).

	<u>Cu %.</u>	<u>Ag.oz/ton.</u>	<u>Au.oz/ton.</u>	<u>Sample Widths.</u> (meters)
DDH 1. 13776 skarn/silicified 1c	.878	.18	.002	.15
DDH 1A 13777 skarn/silicified 1c	.391	.13	.001	4.5
DDH 2 13778 silicified 1b	.432	.09	.001	3.7
1379 unmineralized 1b	.037	.06	.001	.3
13780 unmineralized 1b	.021	.03	.001	.2
DDH 3 13781 silicified 1c	.252	.09	.001	2.9
13782 unmineralized 1b some highly amygdaloidal, with epidote	.032	.03	.001	.2
DDH4 13783 skarn/silicified 1c	.134	.04	.001	3.5
13784 1b, epidotized. Short section with abundant native Cu, cpy on fractures	.342	.06	.001	1.0
13785 1b, trace cpy	.060	.05	.001	.5

CONCLUSIONS.

There are twenty three separate skarn occurrences on the Donner Lake property and its vicinity. They occur within Karmutsen basalts, Quatsino Limestone, and at contacts of these with each other and with the Island Intrusion. Several of the skarns within the basalts are conformable bodies localized within amygdaloidal flowtops. It is hypothesized that the comparatively porous vesicular flow tops acted as structural traps for migrating fluids during cooling of the intrusion.

Skarn 2, a flowtop skarn of this type, hosts the most significant Cu-mineralization on the property. Drilling defined it as a roughly planar body less than 3 m thick, of minimum dimensions 80 x 30 meters. The average grade is .29% Cu.

Extensive mapping and prospecting has not revealed comparable mineralization elsewhere.

Magnetic surveys were of limited use in tracing subsurface extensions of the skarns. Those skarns which are enclosed in basalts are conformable; tabular to lenticular, and gently dipping. Drill hole intersections confirmed a planar morphology for Skarn 2, which occurs an amygdaloidal flow top.

RECOMMENDATIONS.

1. In general, field work in 1979 has shown that mineralization on the Donner Lake is probably more restricted than previously estimated. The property does not merit further major development at this point.
If however, future programs are contemplated, they should focus on the following objectives:
 - a) Further drilling near skarns 1 and 2 to delimit the full extent of the Cu mineralized zone to the north and east.
 - b) Possible drilling on Skarn 4. Exposed grades are not encouraging except in a small area near the waterfall, but as skarn grades generally are erratic, it is possible that higher Cu contents could occur in buried extension to the north. Drilling on Skarn 4 would involve either carrying the drill 100 m up steep ground and cliffs, or longlining it into the gully above waterfall.
2. If desirable from a cost standpoint, parts of the claim group which do not contain significant Cu-mineralization could be eliminated.

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APPENDICES.

APPENDIX I.

DRILL CORE LOG.

Company Com Am Ltd Property Donner Lk Scale 1 cm: 1 m Hole No. DL-DDH 1

(1:100)

Started - <u>3 Nov 1979</u>	Bearing - <u>1</u>	Lat. -	Collar El. - <u>617 m</u>	Logged by: <u>J. Nelson</u>	Remarks:
Completed - <u>5 Nov 1979</u>	Angle - <u>90°</u>	Dep. -	Bottom El. <u>591.5 m</u>	Size of core: <u>AX</u>	
Driller - <u>Drillcor</u>	Length <u>78.6' (^{24.0}/25.5 m)</u>	Location -	Level -	Survey data:	

Interval		Recovery		S V A R C	Description of Unit	L = Lithology S = Structure M = Mineralization	L	S	M	Description of Mineralization	Sample No.	Interval		Assays			
From	To	M.	%									From	To	Cu	Ag	Au	
0	1.5	12	80		overburden 1b dk nTK - no pxts, res. 1b dk nTK w/ patchy galena silicification intense epithermalization of quartz veins. horn patches. 1b dk nTK w/ ep veins	.4 .75 .13				ep veins quartz qz veins cut ep veins, silicified ep veining ep, epy veins sh-ep near horizontal int vein ga min. patches epy (41%) patch epy							
1.5	3.2	1.7	100		1b mottled silicified-ep. nTK ga-ep and sh-ep epy						13776	1-95	2-1	.878	.18	.002	
3.2	4.7	1.5	100														
4.7	6.3	1.6	100		dark nTK (1b) ep					ep veins more abt than most 1b but not exceptional sparse qz veins (cut ep)							
6.3	7.9	1.6	100														
7.9	11.2	2.9	100		1b - res. show bag @ 100 to core												
11.2	13.3	2.1	100		1b					19 qz. ep vein							
13.3	16.5	3.2	100														



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DRILL CORE LOG.

Page 2 of 2

Company Con Am Ltd Property Danner Ek Scale 1cm = 1m (1:100) Hole No. DL-DDH1

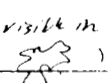
Started - <u>3 Nov 1979</u>	Bearing -	Lat. -	Collar El. - <u>617m</u>	Logged by: <u>J. Nelson</u>	Remarks:
Completed - <u>5 Nov 1979</u>	Angle - <u>90°</u>	Dep. -	Bottom El. <u>591.5m</u>	Size of core: <u>AX</u>	
Driller - <u>Driller</u>	Length <u>78.6' (24.0)</u> <u>(25.5m)</u>	Location -	Level -	Survey data:	

Interval		Recovery		Description of Unit	L = Lithology S = Structure M = Mineralization	L	S	M	Description of Mineralization	Sample No.	Interval		Assays				
From	To	M.	%								From	To					
14	(13.3 - 16.5)	(13.2)	(100)														
15				1b.					cp rims, rimlets spark of rims								
16	16.5 - 18.95	2.45	(100)					1b									
17																	
18																	
19	18.95 - 20.5	2.55															
20																	
21									cp rims								
22	21.5 - 23.8	2.3						1b	cp-rimms								
23									T.D. 24.0m								
24																	
25	T.D. 25.5'							1b									
26																	
27																	
28																	

DRILL CORE LOG.

Company Can Am Projects Ltd Property Denner Lt Scale 1 cm = 1 m Hole No. DL-10H-2

Started - <u>8 Nov 1979</u>	Bearing - <u>1</u>	Lat. -	Collar El. - <u>631.5</u>	Logged by: <u>J. Nelson</u>	Remarks:
Completed - <u>10 Nov 1979</u>	Angle - <u>90°</u>	Dep. -	Bottom El. <u>599m</u>	Size of core: <u>4x</u>	
Driller - <u>W. Linton</u>	Length <u>100' (30.4m)</u> <u>(82.5m)</u>	Location -	Level -	Survey data:	

Interval		Recovery		S Core	Description of Unit	L = Lithology S = Structure M = Mineralization	L	S	M	Description of Mineralization	Sample No.	Interval		Assays					
From	To	M.	%									From	To	Cu	Ag	Au			
0	3.5	2.7	76		16 sparse vesicles					qz, ep veins - some to 3 cm with reg borders (like segregations visible in oc )									
3.5	4.1	.8	80																
4.4	8.1	3.9	100																
8.1	9.7	1.6	100							tr opy in qz vein									
9.7	11.3	1.6	100		16 massive - dk gr					tr opy in vein cutting one of patches									
11.3	12.6	1.5	100		silicified pale gr highly ves. 16	46	0.0			qz-ep = sulfide in vesicles	13778	11.4	15.1	.432	.09	.001			
12.6	14.4	1.8	100																



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DRILL CORE LOG.

20

Company Can-Am Projects Ltd Property Dominion Lk Scale 1 cm = 1 m Hole No. DL-DDH 2

Started - <u>2 Nov 1979</u>	Bearing - <u>1</u>	Lat. -	Collar El. - <u>631.5 m</u>	Logged by: <u>J. Nelson</u>	Remarks:
Completed - <u>10 Nov 1979</u>	Angle - <u>90°</u>	Dep. -	Bottom El. <u>599 m</u>	Size of core: <u>4x</u>	
Driller - <u>Driller</u>	Length <u>300</u> (^{30.4} 305 m)	Location -	Level -	Survey data:	

Interval		Recovery		Core VS	Description of Unit	L = Lithology S = Structure M = Mineralization	L	S	M	Description of Mineralization	Sample No.	Interval		Assays				
From	To	M.	%									From	To	Cu	Ag	Au		
14.4	16.05	1.65	100		dk gm 1b - some vesicles, smaller than are horizon, sparser)					2-1% cpy in ves. cp-gz veins to hem.								
16.05	16.9	.85	100															
16.9	17.5	.6	100							17.1 lower limit of small ves w/ cpy								
17.5	18.3	.8	100															
18.3	19.4	.9	100							scattered cp-gz hem alteration zone								
19.4	21.8	1.8	75							19.1 cpy in 1 mm veinlet w/ cp 19.7-8 cp-gz hem veins								
21.8	22.4	.6	100		dk gm 1b - few vesicles					lowest tr cpy in small cp seq.								
22.4	24.4	2.0	100							22.0-3 to Vancouver - barren; cp veins	13779	22.0	22.3	.037	.06	.001		
24.4	25.0	.6	100															
25.0	26.6	2.1	100															
26.6	28.6	1.8	90							26.0-8 TO VANCOUVER Barren, sparse ves	13780	28.6	28.8	.021	.03	.001		



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DRILL CORE LOG.

Company Comstock Minerals Ltd. Property Douglas Lake Scale 1cm = 1m Hole No. 713-744-2

Started - <u>8 Nov 1979</u>	Bearing - <u> </u>	Lat. - <u> </u>	Collar El. - <u>631.5 m</u>	Logged by: <u>J. Nelson</u>	Remarks:
Completed - <u>10 Nov 1979</u>	Angle - <u>90°</u>	Dep. - <u> </u>	Bottom El. <u>599 m</u>	Size of core: <u>AX</u>	
Driller - <u> </u>	Length <u>100' (30.4 m)</u>	Location - <u> </u>	Level - <u> </u>	Survey data: <u> </u>	

Interval		Recovery		Cores	Description of Unit	L = Lithology S = Structure M = Mineralization	L	S	M	Description of Mineralization	Sample No.	Interval		Assays			
From	To	M.	%									From	To				
26.6	28.6	18	90		fb unalt					cp, qz-cp: hem rds sparse rvs w/ep							
28.6	29.7	13	100		29.7-29.9 small pale gn silicified zmc - no cpy					no cpy T.D. 30.4 m							
29.7	32.5	28	100														
					T.D. 32.5 m												

DRILL CORE LOG.

10/24

Company Can Am Ltd Property Danner Lk Scale 1cm = 1m Hole No. DL-DDH-4

Started - <u>15 Nov 1979</u>	Bearing - <u>✓</u>	Lat. -	Collar El. - <u>539.7m</u>	Logged by: <u>J. Nelson</u>	Remarks:
Completed - <u>20 Nov 1979</u>	Angle - <u>90°</u>	Dep. -	Bottom El. <u>567.1m</u>	Size of core: <u>AX</u>	
Driller - <u>Drilcor</u>	Length <u>162ft (49.4m)</u>	Location -	Level -	Survey data:	

Interval		Recovery		Core VS	Description of Unit	L = Lithology S = Structure M = Mineralization	L	S	M	Description of Mineralization	Sample No.	Interval		Assays				
From	To	M.	%									From	To					
0	2.0	2	100		1a/1b. sparse sm res., a few larger, generally unaltered					cpy throughout ~1%, some places more, some to 1% dissem, in veinlets. also f2, cp veinlets.								
2.0	3.55	1.8	100															
3.55	4.65	1.1	100															
4.65	5.5	.55	65							5.7-5.9 cpy in veinlets 1%								
5.5	7.0	1.5	100															
7.0	8.6	1.5	94							7.0-7.2 qc. cp res. sm. brcc. zone								
8.6	10.7	2.1	100							cpy ~1%								
10.7	13.0	2.3	100		1b? dike? lighter, stly cp than normal. cp. brccia lenses, "gran" or sandy fabric in places													
13.0	13.95	.8	81							km-gz cube py res.								

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DRILL CORE LOG.

Company Carleton Place Property Dorner Lt Scale 1 cm = 1 m Hole No. D-104-1

Started - <u>15 Nov 1979</u>	Bearing - <u>/</u>	Lat. -	Collar El. -	Logged by: <u>J. Nelson</u>	Remarks:
Completed -	Angle - <u>90°</u>	Dep. -	Bottom El.	Size of core: <u>AX</u>	
Driller - <u>Drilcor</u>	Length <u>49.4 m</u> <u>52.8 m</u>	Location -	Level -	Survey data:	

Interval		Recovery		Core S/V	Description of Unit	L = Lithology S = Structure M = Mineralization	L	S	M	Description of Mineralization	Sample No.	Interval		Assays					
From	To	M.	%									From	To	Cu	Ag	Au			
14.95	15.1	1.2	100		1a/1b w/ breccia zones, a bit of ep-patches.	14.5													
15.1	16.35	1.3	100		1b - ep veins.	15.3													
16.35	18.2	1.8	100																
17.6	17.6				4. go. mt. ep. hem. - ep. sz. - horiz. contact.	17.6				ep. in ep veins 1%	13783	17.6	21.1	.134	.04	.001			
18.2	19.8	1.7	100		1b massive - silicified - patchy gy to blk					ep. in res 1-3%									
19.8	21.1	1.4	100																
21.1	24.0	2.7	93		1b mass. not vesicular. (very sp. lg res) sparse veins, millets	21.1				sparse ep, qz veins ep. in res.									
24.0	25.8	1.8	100																
25.8	26.6	.8	100							25.8 highest conc. of native Cu & ep. in res, veins w/ qz-ep									
26.9	27.9									26.9 - 30.2 ep. has 3% native Cu - ep. in fc.	13784	26.9	27.9	.342	.06	.001			(28)
26.6	28.4	1.8	100																

26.9-27.9
 - TO VANCOUVER



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DRILL CORE LOG.

30

Company Can Am Property Dinner LA Scale 1 cm = 1 m Hole No. DL-DDH-4

Started - <u>15 Nov 1979</u>	Bearing - <u>!</u>	Lat. -	Collar El. - <u>639.7</u>	Logged by: <u>J Nelson</u>	Remarks:
Completed - <u>20 Nov 1979</u>	Angle - <u>90°</u>	Dep. -	Bottom El. <u>587.1 m</u>	Size of core: <u>AX</u>	
Driller - <u>Driller</u>	Length <u>49.4 m</u>	Location -	Level -	Survey data:	

Interval		Recovery		S Core	Description of Unit	L = Lithology S = Structure M = Mineralization	L	S	M	Description of Mineralization	Sample No.	Interval		Assays				
From	To	M.	%									From	To	Ca	Ag	Au		
28.4	31.0	2.7	100		fb - very sparse lg res, rem s, vesicles. Many veins and most vesicles epy ± Ca - problem is not many of either					epy, Ca in res, fc. < 1%								
31.0	32.6	2.7	100															
32.6	35.8	2.9	91		fb unatt. fine res, fc					35.8-36.3 TO VANCOUVER occ br. epy								
35.8	39	3.3	100								13785	35.8	36.3	.06	.05	.001		
39	42.2	3.2	100															

DRILL CORE LOG.


Company Com Inc Ltd Property 1000000000 Scale 1cm = 1m Hole No. DL-DRH-7

Started - <u>15 Nov 1979</u>	Bearing - <u>1</u>	Lat. -	Collar El. - <u>639.7m</u>	Logged by: <u>J Nelson</u>	Remarks:
Completed - <u>20 Nov 1979</u>	Angle - <u>90°</u>	Dep. -	Bottom El. <u>587.1m</u>	Size of core: <u>1X</u>	
Driller - <u>unilor</u>	Length <u>162ft (49.4m)</u>	Location -	Level -	Survey data:	

Interval		Recovery		Core %	Description of Unit	L = Lithology S = Structure M = Mineralization	L	S	M	Description of Mineralization	Sample No.	Interval		Assays			
From	To	M.	%									From	To				
42.2	45.5	3.1			10/10 sparse minlets - very fine rxn.					10/10							
45.5	48.5	2.8			1A - sparse minlets rxn.												
48.5	48.7	.2	100		48.1 ep-qtz zone - primary alb veins & epidotization of calc.												
48.7	50	1.1	77														
50	52.7	2.7	100			50.5											
					massive 1b												
					TD 527m (162ft)												

DRILL CORE LOG.

Company Com - Am Property Donner Lake Scale 1 cm = 1 m Hole No. DL-DH-3

Started - <u>11 Nov 1979</u>	Bearing - <u>✓</u>	Lat. -	Collar El. - <u>623.6 m</u>	Logged by: <u>J. Helm</u>	Remarks: 
Completed -	Angle - <u>90°</u>	Dep. -	Bottom El. <u>591.3 m</u>	Size of core: <u>AX</u>	
Driller - <u>Miller</u>	Length <u>99.5 ft / 30.3 m</u>	Location -	Level -	Survey data:	

Interval From	Interval To	Recovery		S Value	Description of Unit	L S M	Description of Mineralization	Sample No.	Interval		Assays						
		M.	%						From	To	Cu	Ag	Au				
0	1.55	1.5	97		1a/1b M&K w/ areas of sm patches. sc. lg vesicles.												
1.55	3.1	1.75	100				qtz-ep in res.										
3.1	4.65	1.45	94				qtz-ep vein w/ alt halo - cpx in it, in one vesicle nearby										
4.65	5.75	.6	54				area of intense ep-qtz-kun veining										
5.75	7.0	1.25	100														
7.0	8.55	1.55	100														
8.55	9.8	1.5	100														
9.8	11.2	1.6	100		1a - clay of res. (2) 1b - light, spongy texture - abt lg ves. w/ ep. appears more altered than normal here		ep (1a) in ep-qtz patch										
11.2	12.5	1.2	100				11.8 sm patch cpx										
12.5	13.5	1.7	100		1a/1b sparse sm res.		13.5-7 qz vein or patch - ep blobs, dissem. cpx										
13.5	13.7																
13.7	15.7	2.4	100		1b sil. sulfid. increase in # of vesicles.		in vesicles: at top and bottom, qz. inside zone: ga, ep, cpx (1%) also abt ep here. Swarms.	13781 13782	13.7	15.7	.252	.09	.001				

(31)

DRILL CORE LOG.

Company Com Am Property Dinner Ld Scale 1 cm = 1 m Hole No. DL-DDH-3

Started -	Bearing - <u>1</u>	Lat. -	Collar El. - <u>623.6m</u>	Logged by: <u>J. Nelson</u>	Remarks:
Completed -	Angle - <u>90°</u>	Dep. -	Bottom El. <u>591.32m</u>	Size of core: <u>AX</u>	
Driller - <u>Dryden</u>	Length <u>99.5 ft</u>	Location -	Level -	Survey data:	

Interval		Recovery		S % V	Description of Unit	L S M	Description of Mineralization	Sample No.	Interval		Assays		
From	To	M.	%						From	To	Cu	Ag	Au
13.8	15.1		100		16 sil.		light grey clumps are with vein like segm.	13781					
15.1	16.5	1	72				VANCOUVER						
16.5	17.9	1	72		16-6								
17.9	18.75	.9	100		18-2								
18.75	19.9	1.1	100		16-1a: zones of highly resistive material, contacts approx horizontal. ep conc in these								
19.9	20.8	.9	100										
20.8	22	1.2	97				21.7-21.8 highly res w/ep						
22	22.7	1.15	96				22.2-22.1 highly res w/ep						
22.8	24.1	1.4	100				24.1-24.2 highly res w/ep > TO VANCOUVER	13782	24.1	24.3	.032	.03	.001
24.1	25.4	1.4	100				24.7-24.8 highly res w/ep						
25.4	26.3	.7	78										
26.3	26.9	.9	100				highly res. ep. whitened - hum in res.						
26.9	28.2	.6	46				26.9 patchy of 2 vein 3 cm.						



STOKES EXPLORATION MANAGEMENT CO. LTD.
STE 713 - 744 W. HASTINGS ST., VANCOUVER, B.C. V6C 1A5
TEL. (604) 688-8541 CANADA

DRILL CORE LOG.

Company Can Am Property Dinner LA Scale 1 cm = 1 m Hole No. DL-224-3

Started -	Bearing - <u>/</u>	Lat. -	Collar El. - <u>623.6m</u>	Logged by: <u>J. Nelson</u>	Remarks:
Completed -	Angle - <u>90°</u>	Dep. -	Bottom El. <u>591.3m</u>	Size of core: <u>AX</u>	
Driller - <u>Driler</u>	Length <u>29.5ft / 30.7m</u>	Location -	Level -	Survey data:	

Interval		Recovery		S / M / C	Description of Unit	L = Lithology S = Structure M = Mineralization	L	S	M	Description of Mineralization	Sample No.	Interval		Assays				
From	To	M.	%									From	To					
26					<u>fb - res. very sparse</u>													
27	<u>29.8</u>		<u>100</u>															
30	<u>29.8</u>	<u>28.1A</u> <u>32.3</u>	<u>105</u>	<u>56</u>						<u>11.4g/mm T.D. 30.3m</u>								
					<u>T.D. = 72.8m = 239.5ft</u>													

DRILL CORE LOG.

Company Can Am Projects Ltd. Property Donner Lake Scale 1cm = 1m Hole No. 1A

Started - <u>5 Nov 1979</u>	Bearing - <u>010</u>	Lat. -	Collar El. - <u>617 m</u>	Logged by: <u>J. Nelson</u>	Remarks: <u>angle hole - same site at 1.</u>
Completed - <u>7 Nov 1979</u>	Angle - <u>45°</u>	Dep. -	Bottom El. <u>591.5 m</u>	Size of core: <u>AX</u>	
Driller - <u>Driller</u>	Length <u>103.5 ft (31.6m)</u> <u>700 ft (213m)</u>	Location -	Level -	Survey data:	

Interval		Recovery		Core %	Description of Unit	L	S	M	Description of Mineralization	Sample No.	Interval		Assays				
From	To	M.	%								From	To	Cu	Ag	Au		
0	1.3	1.3	100		1b dk gn. sm sparse vesicles in places	1b			1cm wide qz vein w/ chl at center qz, ep veins throughout - no consistent orientation								
1.3	2.65	1.35	100		1b lt gn silicified & sharp digitate contact 4. top contact patch red gn. or sil. 1b (ves?)				heavy epidolization 10 cm. cut by qz vein at veins lower st. ep patchy throughout < 1% biggest patch at vein 3x1 cm cpy in vesicles; veins, patches 2-5%	13777	1.46	2.92	.391	.13	.001		
2.65	5.65	3.0	100		1b less intense silicification dk gn. sparsely, pxts. (cpy 100%) patches ep to 3 cm thick throughout; ep veins. cpy generally ~100%	1b			cpy ~ 1% 1 ep vein 2% 1 ep patch cpy in vein - cpy patch in some of heavy ep veining								
5.65	6.6	.95 (end of 200)	100						1 m. ep in small bleb 1 qz-ep veins								
6.6	7.3	.75															
7.3	9.3	2.0	100		1b - dk, massive. sparse vesicles, qz-ep veins	1b			occ. trace of cpy								
9.3	11.7	2.4	100						5 cm qz ep vein								
11.7	14.4	2.7	100														

DRILL CORE LOG.

Company Can-Am Projects Ltd Property Dominion Scale 1cm = 1m Hole No. 1A
 Dr-DDH-

Started - 5 Nov 1979	Bearing - 010	Lat. -	Collar El. - 617 m	Logged by: J. Nelson	Remarks: angle hole - same site as 1.
Completed - 7 Nov 1979	Angle - 45°	Dep. -	Bottom El. -	Size of core: 4X	
Driller -	Length 103.5 (31.6m) 100ft	Location -	Level -	Survey data:	

Interval		Recovery		S V A U S	Description of Unit (31.6m)	L = Lithology S = Structure M = Mineralization	L	S	M	Description of Mineralization	Sample No.	Interval		Assays				
From	To	M.	%									From	To					
14.4	15.2	.6	100															
15.2	18.8	2.9	100															
18.1	20.6	2.5	100		1b - dk gr, massive sparse vesicles, qtz - ep veins													
20.6	22.5	1.9	100															
22.5	25.1	2.6	100															
25.1	27.75	2.65	100															
27.75	29.15	1.4																

DRILL CORE LOG.

Company Can Am Projects Ltd Property Danner Lk Scale 1cm = 1m Hole No. DL-DDH 1A

Started - <u>5 July 1979</u>	Bearing - <u>010</u>	Lat. -	Collar El. - <u>617m</u>	Logged by: <u>J. Nelson</u>	Remarks: <u>angle hole -</u> <u>same site as 1</u>
Completed - <u>7 July 1979</u>	Angle - <u>46°</u>	Dep. -	Bottom El.	Size of core: <u>1X</u>	
Driller -	Length <u>103.5</u> ^(31.6m)	Location -	Level -	Survey data:	

Interval		Recovery		S Val	Description of Unit	L	S	M	Description of Mineralization	Sample No.	Interval		Assays				
From	To	M.	%								From	To					
29	29.16				<u>10 - dk gn, massive</u> <u>sparky qz - ep veins</u>												
30																	
31									<u>T.D. 31.6m</u>								
32																	

APPENDIX II.

GEOCHEMICAL ANALYSIS DATA SHEET

PROJECT No.:

MIN - EN Laboratories Ltd.

DATE: Nov. 30, 1979.

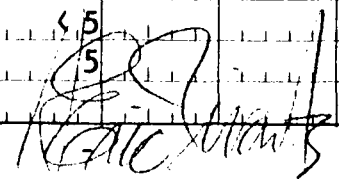
705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
PHONE (604) 980-5814

ATTENTION: R. Stokes

Sample Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb				
6	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	
81	86	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160
13786		2680						21				<5				
87		525						32				<5				
88		580						30				<5				
89		560						20				5				
90		975						34				<5				
91		162						32	30 000 0			<5				
92		109						28				<5				
93		200						24				<5				
94		5100						175				55				
95		65						30				15				
96		3580						44				20				
97		190						20				5				
98		2900						129				140				
99		5050						31				15				
13800		80						23				15				
01		13500						230				1750				
02		355						26				50				
03		640						44				90				
04		15000						161				700				
05		142						25	25 000 0			140				
06		133						28	27 000 0			10				
07		185						14				15				
08		48000						210				5				
09		240						44	30 500 0			5				
10		166						24				10				
11		435						43				5				
12		15000						65	17 000 0			5				
13		167						47	28 500 0			<5				
13814		153						28				5				

Most of these samples should have been assayed.

CERTIFIED BY



(38A)

GENERAL TESTING LABORATORIES

DIVISION SUPERINTENDENCE COMPANY (CANADA) LTD

1001 EAST PENDER ST. VANCOUVER, B.C., CANADA, V6A 1W2
PHONE (604) 254-1647 TELEEX 04-507514 CABLE SUPERVISE

TO:
STOKES EXPLORATION MANAGEMENT LTD.
713 - 744 West Hastings St.,
Vancouver, B.C.

CERTIFICATE OF ASSAY

No.: 7912-0752 DATE: Dec. 13/79

We hereby certify that the following are the results of assays on: **Ore sample**

MARKED	COBALT		Lead	Zinc	XXX	XXX	XXX	XXX
			Pb (%)	Zn (%)				
E42158								
13851			0.02	17.38				

NOTE: REJECTS RETAINED ONE MONTH. PULPS RETAINED THREE MONTHS. ON REQUEST PULPS AND REJECTS WILL BE STORED FOR A MAXIMUM OF ONE YEAR.

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L. Wong

PROVINCIAL ASSAYER

Analytical and Consulting Chemists. Bulk Cargo Specialists. Surveyors, Inspectors, Samplers, Weighers

MEMBER American Society For Testing Materials • The American Oil Chemists Society • Canadian Testing Association
REFEREE AND/OR OFFICIAL CHEMISTS FOR National Institute Of Oiled Products • The American Oil Chemists Society
OFFICIAL WEIGHMASTERS FOR Vancouver Board Of Trade

APPENDIX III.

C E R T I F I C A T E.

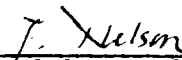
I, JoAnne Nelson, do hereby certify:

That I am a geologist residing at
3482 West 6th Avenue, Vancouver, B.C.

That I hold a B.Sc in geology from
the University of Washington (1973)
and an M.Sc in geology from the
University of British Columbia (1976).

That I have no financial interest, either
direct or indirect, in the subject
property and that I do not expect to
obtain any such interest.

That the information contained in this
report is based on my personal knowledge
of the general area, reference to the
works cited in this report, and to
examination of the property in question.



JoAnne Nelson,
Geologist.

November 30, 1979.

Vancouver, B.C.

ENGINEER'S CERTIFICATION.


I, John G. Payne, PhD, of North Vancouver, B.C. do hereby state:

1. I am a consulting Geological Engineer. I graduated from Queens University, Kingston, Ontario in 1961 with a BSc degree in Geological Engineering. I received a PhD degree in Geochemistry from McMaster University in 1966.
2. My address is 877 Lillooet Road, North Vancouver, B.C. V7J 2H6.

I am under contract for this report to Stokes Exploration Management Co. Ltd., No. 713 - 744 West Hastings Street, Vancouver, B.C. V6C 1A5.
3. I have practiced Geology since graduation for 13 years, mainly in the North American Cordillera.
4. That I have no financial interest, either direct or indirect, in the subject property and that I do not expect to obtain any such interest.
5. That the information contained in this report is based on my personal knowledge of the general area, reference to the works cited in this report, and to examination of the property in question.
6. The report may be used by CON AM Resources Ltd., in a statement of material facts or prospectus for public financing.

Dated at Vancouver, British Columbia, the 30th day of November, 1979.

STOKES EXPLORATION MANAGEMENT CO. LTD.


John G. Payne, PhD.,
Consulting Geological Engineer.

APPENDIX IV.

ITEMIZED COST STATEMENT

OPNAM PROJECT - 1979

R.B. Stokes, P.Eng.

Per day: \$250.00

1979

Mar. 21 & 22	2 days
May 9th	$\frac{1}{2}$ days
Sept. 27 & 28	1 $\frac{3}{4}$ days
Oct. 17 & 19	2 $\frac{1}{4}$ days
Nov. 21 & 22	<u>2 days</u>

8 $\frac{1}{2}$ days @ \$250.00 = \$2125.00

John Payne, PhD., Geologist

Sept. 26 & 29th	2 Half days
Oct. 4,5,6,7,8,9,21 22,23,24:	9 days
Nov. 23,28:	<u>1 $\frac{1}{2}$ days</u>

11 $\frac{1}{2}$ days @ \$250.00 = \$2875.00

Joanne Nelson, Geologist

Oct. 4 - 25, and 29 & 31:	23 $\frac{1}{2}$ days
Nov. 5 - 12, and 23 & 28:	<u>14 days</u>

37 $\frac{1}{2}$ days @ \$150.00 = \$5625.00

Gordon Keep, Geologist

Sept. 26 - 40:	5 days
Oct. 1 - 6:	<u>6 days</u>

11 days @ \$104.00 = \$1144.00

Brian Hatelt, Technician

Sept. 27 - 30:	4 days
Oct. 1 - 25:	24 $\frac{1}{2}$ days
Nov. 1 - 24:	<u>23 days</u>

51 $\frac{1}{2}$ days @ \$ 80.00 = \$4120.00

Peter Kulich, Technician

Sept. 27 - 30:	3 $\frac{1}{2}$ days
Oct. 1-25:	<u>24 $\frac{1}{2}$ days</u>

28 days @ \$ 80.00 = \$2240.00

Katherine Keep, Field Assistant

Sept. 28 - Oct. 3:	34 hrs. \$ \$ 6.25 =
--------------------	----------------------

\$ 212.50

Accommodation

Sept. 29 - Nov. 20/79:

45.35 nights @ \$26.75 = \$1213.11

Food

September: 3 men/ \$165.45

October: 6 men/ 344.07

November: 3 men/ 267.36

\$ 776.88

Transportation

Oct. 9 - Campbell River/Gold/River

Oct. 4 - Vanc./Campbell River/Gold River (2 people)

Oct. 24 - Campbell River/Gold River

Oct. 24 - Vanc./ Campbell River

Nov. 5 - Campbell River/Gold River (2 people)

Nov. 11 - " " " "

Nov. 17 - " " " "

9 airline tickets @ \$35.00 = \$ 315.00

Truck Transportation

Sept 27 - 30: 3 days @ \$18.67 = \$ 56.01

Oct. 1 - 25: 24 days @ \$18.67 = 448.08

Nov. 1 - 22: 3 weeks

@ \$160.00 = 480.00

4478 miles @ .12¢ = 537.36

\$1521.45

Secretarial time

November: \$195.00

December: \$275.00

\$ 470.00

Drafting

October: 18 hrs.

November: 51 hrs.

December: 49 hrs.

111 hrs. @ \$12.00 = \$1416.00

Photocopies, prints, maps, etc.

\$ 213.26

Telephone

\$ 75.00

Field Equipment Rental

50 days @ \$10.00 = \$ 500.00

Power Saw Rental

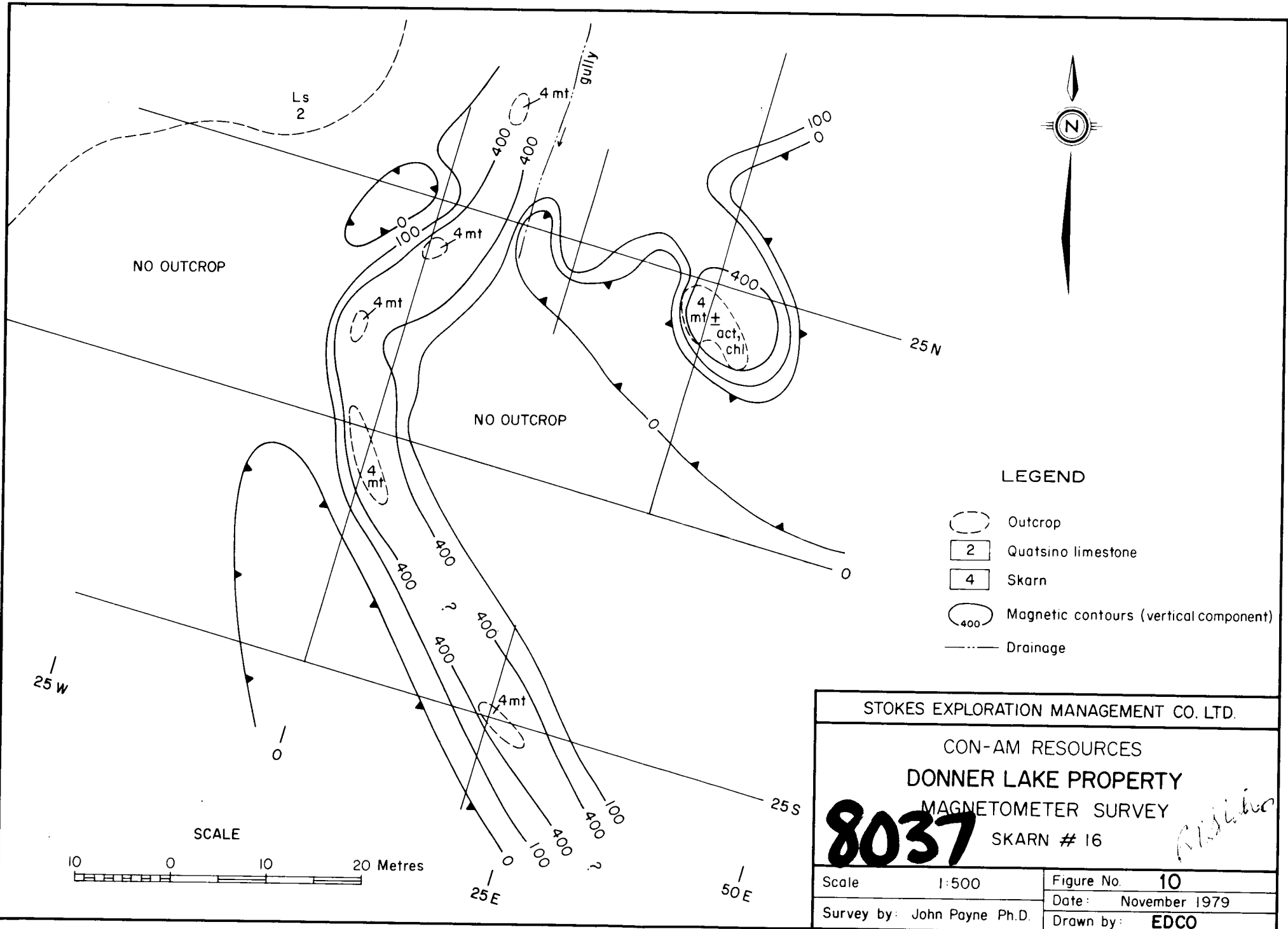
20 days @ \$10.00 = \$ 200.00

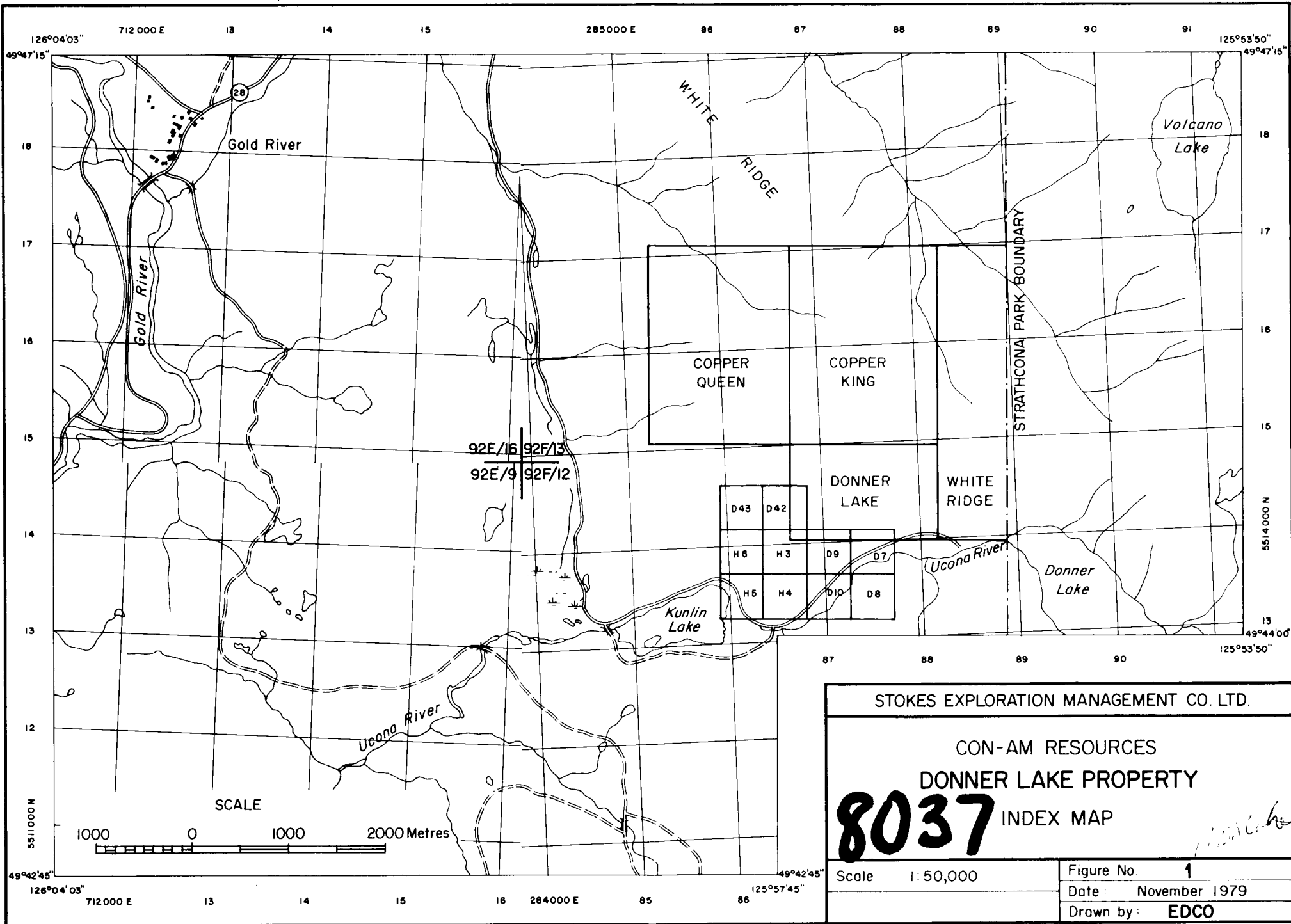
Diamond Drilling Program

544' @ \$24.44 = \$13,293.17

Assays \$ 401.60

TOTAL \$38,736.97
=====





STOKES EXPLORATION MANAGEMENT CO. LTD.

CON-AM RESOURCES
DONNER LAKE PROPERTY

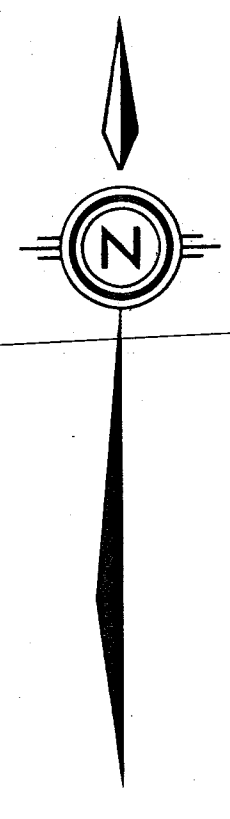
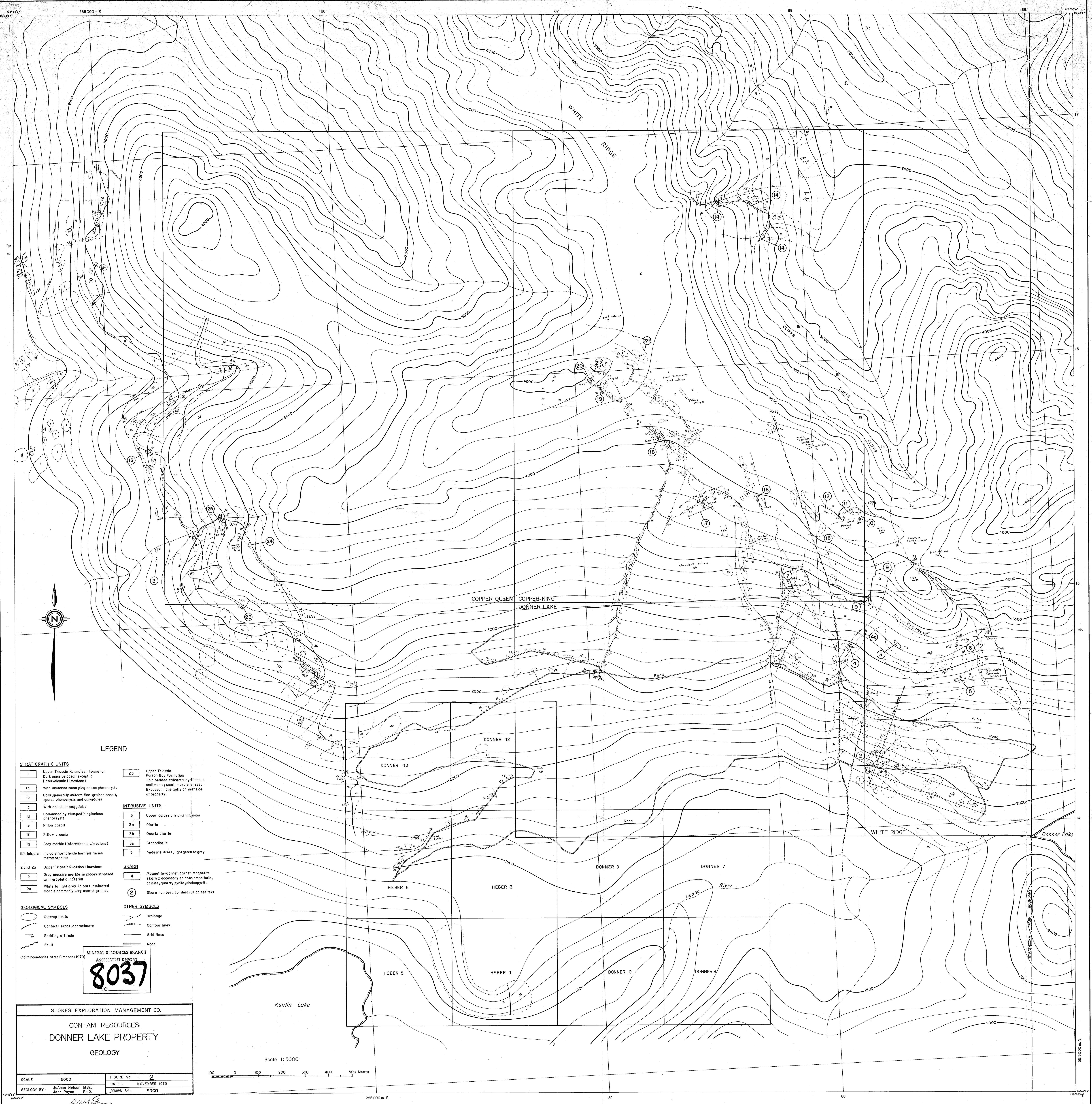
8037 INDEX MAP

Scale 1:50,000

Figure No. 1

Date: November 1979

Drawn by: EDCO



LEGEND

STRATIGRAPHIC UNITS

- 1 Upper Triassic Kormutsen Formation
Dark massive basalt except lg
(Intervolcanic Limestone)
- 1a With abundant small plagioclase phenocrysts
- 1b Dark, generally uniform fine-grained basalt, sparse phenocrysts and amygdules
- 1c With abundant amygdules
- 1d Dominated by clumped plagioclase phenocrysts
- 1e Pillow basalt
- 1f Pillow breccia
- 1g Grey marble (Intervolcanic Limestone)
- 1h, 1i, etc. indicate hornblende hornfels facies metamorphism
- 2 and 2a Upper Triassic Quatsino Limestone
- 2 Grey massive marble, in places streaked with granitic material
- 2a White to light grey, in part laminated marble, commonly very coarse grained

INTRUSIVE UNITS

- 3 Upper Jurassic Island Intrusion
- 3a Diorite
- 3b Quartz diorite
- 3c Granodiorite
- 5 Andesite dikes, light green to grey

SKARN

- 4 Magnetite-garnet, garnet-magnetite skarn ± accessory epidote, amphibole, calcite, quartz, pyrite, chalcocrite
- ② Skarn number; for description see text.

GEOLOGICAL SYMBOLS

- Outcrop limits
- Contact: exact, approximate
- Bedding attitude
- Fault
- Claim boundaries after Simpson (1979)

OTHER SYMBOLS

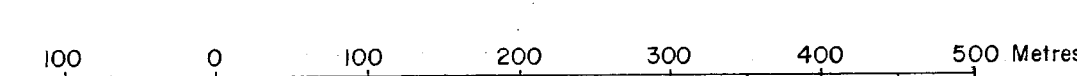
- Drainage
- Contour lines
- Grid lines
- Road

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
8037
NO.

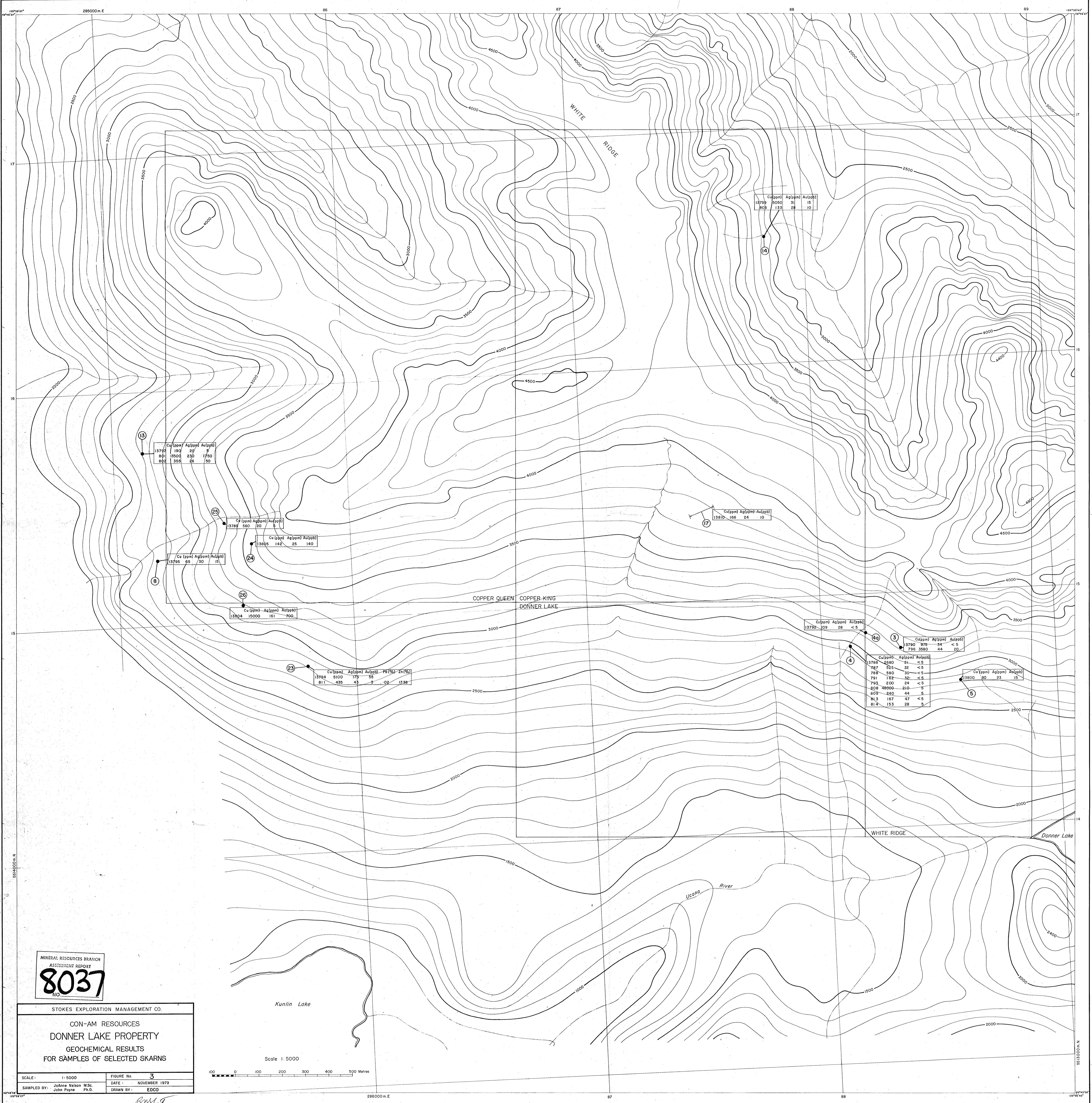
STOKES EXPLORATION MANAGEMENT CO.

CON-AM RESOURCES
DONNER LAKE PROPERTY
GEOLOGY

Scale 1:5000



SCALE 1:5000
GEOLOGY BY: JoAnne Nelson M.Sc.
John Payne Ph.D.
FIGURE No. 2
DATE: NOVEMBER 1979
DRAWN BY: EDCO



Cu(ppm)	Ag(ppm)	Au(ppb)
13799	8050	31
805	133	10

Cu(ppm)	Ag(ppm)	Au(ppb)
13797	190	20
80	5500	230
825	325	26

Cu(ppm)	Ag(ppm)	Au(ppb)
13789	560	20

Cu(ppm)	Ag(ppm)	Au(ppb)
13805	142	25

Cu(ppm)	Ag(ppm)	Au(ppb)
13795	65	30

Cu(ppm)	Ag(ppm)	Au(ppb)
13804	15000	161

Cu(ppm)	Ag(ppm)	Au(ppb)
13810	166	24

Cu(ppm)	Ag(ppm)	Au(ppb)
13792	109	28

Cu(ppm)	Ag(ppm)	Au(ppb)
13790	975	34
795	3590	44

Cu(ppm)	Ag(ppm)	Au(ppb)
13786	2380	21
787	525	32
788	580	30
791	122	32
793	200	24
808	28000	210
809	240	44
813	167	47
814	153	28

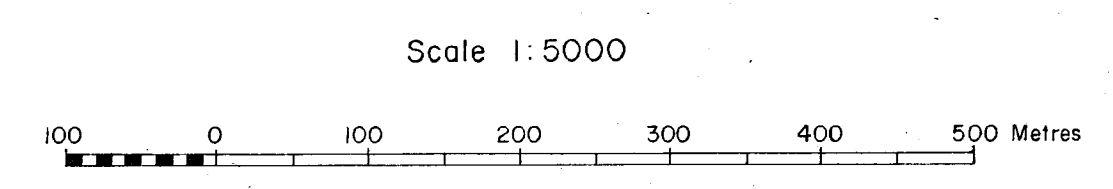
Cu(ppm)	Ag(ppm)	Au(ppb)
15800	80	23

Cu(ppm)	Ag(ppm)	Au(ppb)	Pb(ppb)	Zn(ppb)
13794	8100	175	55	5
811	435	43	5	1738

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
8037
NO.

STOKES EXPLORATION MANAGEMENT CO.
CON-AM RESOURCES
DONNER LAKE PROPERTY
GEOCHEMICAL RESULTS
FOR SAMPLES OF SELECTED SKARNS

SCALE: 1:5000
FIGURE No. 3
DATE: NOVEMBER 1979
SAMPLED BY: JoAnne Nelson M.Sc. / John Payne P.R.D.
DRAWN BY: EDCO






Handwritten signature



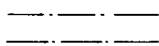
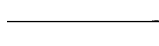

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
8037
NO. _____

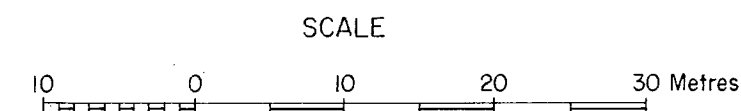
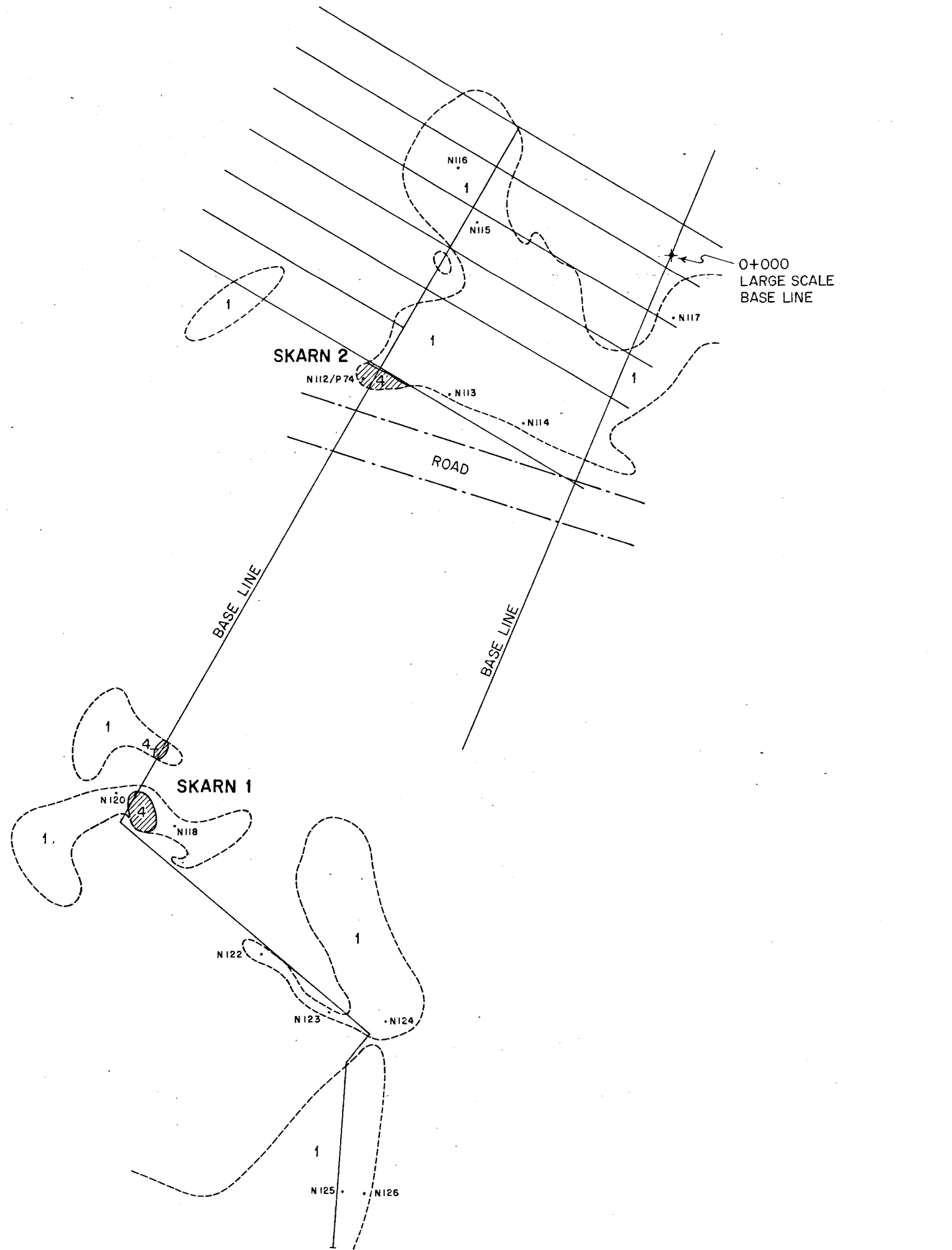
LEGEND

GEOLOGICAL SYMBOLS

-  Outcrop border
-  Karmutsen basalt
-  Garnet-magnetite-epidote
chalcopyrite-skarn

OTHER SYMBOLS

-  Road
-  Grid lines
-  N 122 Geology station number



STOKES EXPLORATION MANAGEMENT CO. LTD.

CON-AM RESOURCES
DONNER LAKE PROPERTY
DETAILED GEOLOGY
SKARNS 1 AND 2 AND VICINITY

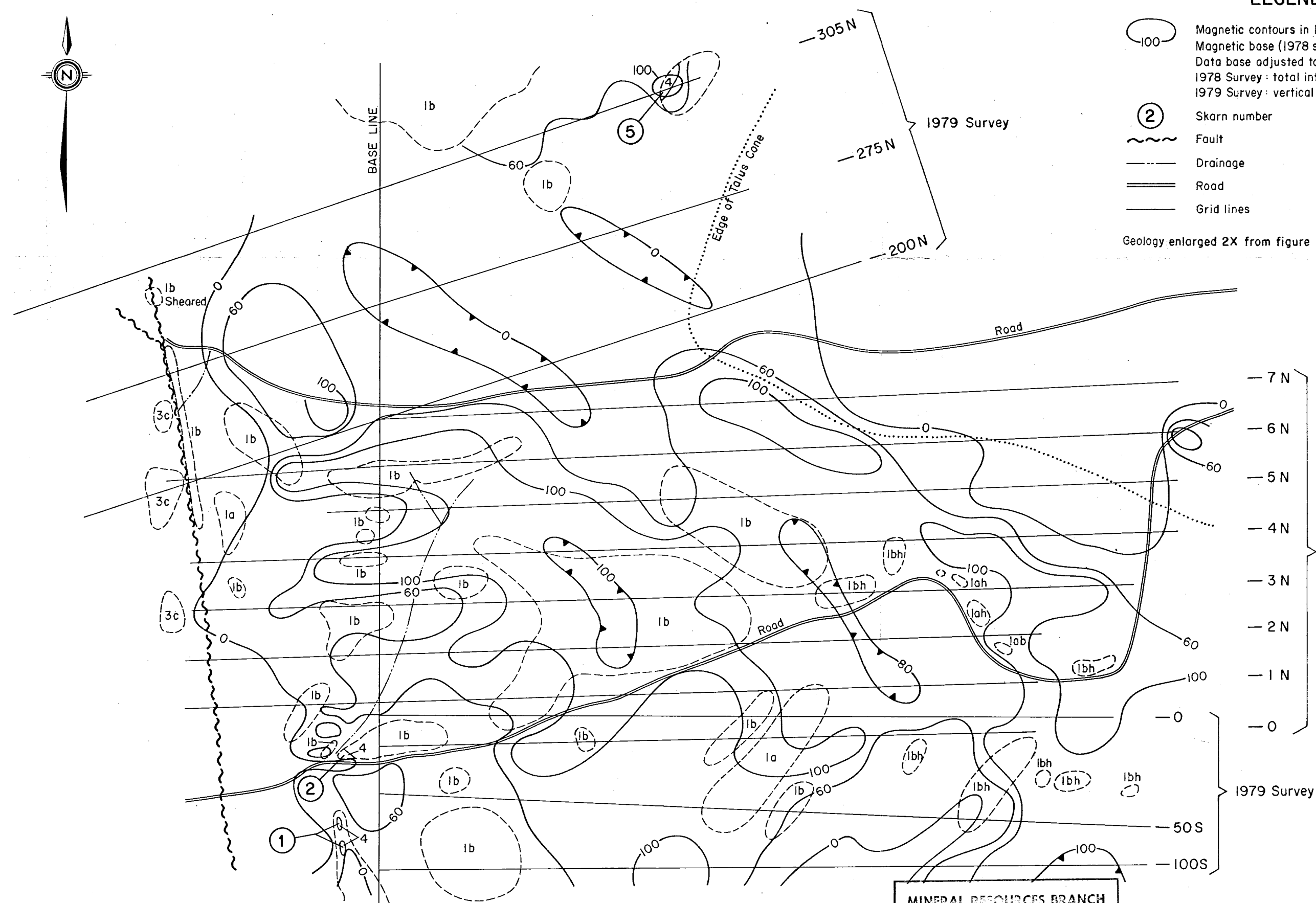
R. B. S.

SCALE 1:500	FIGURE No. 4
GEOLOGY BY: JoAnne Nelson M.Sc.	DATE: NOVEMBER 1979
	DRAWN BY: EDCO



LEGEND

- Magnetic contours in 10s of gammas
 - Magnetic base (1978 survey) 56030 gammas
 - Data base adjusted to best-fit 1978 data
 - 1978 Survey: total intensity
 - 1979 Survey: vertical component
 - Skarn number
 - Fault
 - Drainage
 - Road
 - Grid lines
- Geology enlarged 2X from figure 2



7 N
6 N
5 N
4 N
3 N
2 N
1 N
0
0
50 S
100 S

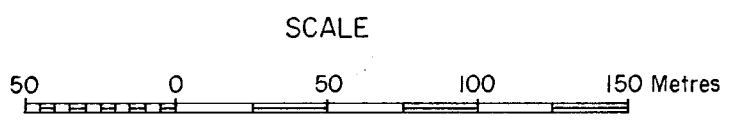
1978 Survey

1979 Survey

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
8037
NO.

R. B. Stokes

STOKES EXPLORATION MANAGEMENT CO. LTD.	
CON-AM RESOURCES DONNER LAKE PROPERTY MAGNETOMETER SURVEY SOUTH END WHITE RIDGE CLAIM	
Scale: 1:2500	Figure No. 8
Survey by: 1978 Simpson 1979 SEMCO	Date: November 1979 Drawn by: EDCO



PROJECTED
62.5 m. TO THE WEST

DDH 4

PROJECTED
5.5 m. TO THE WEST

DDH 2

PROJECTED
3.0 m. TO THE WEST

DDH 3

PROJECTED
30.0 m. FROM THE EAST

DDH 1 &
DDH 1A

Collar elevation DDH 1 = 0.0
(approx. 1900 m. elevation)

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
8037
NO. _____

LEGEND

- 1a Karmutsen basalts with abundant small plagioclase phenocrysts
- 1b Karmutsen basalts, sparse amygdules, phenocrysts
- 1cs Silicified, bleached Karmutsen basalts - highly amygdaloidal
- 4 Skarn

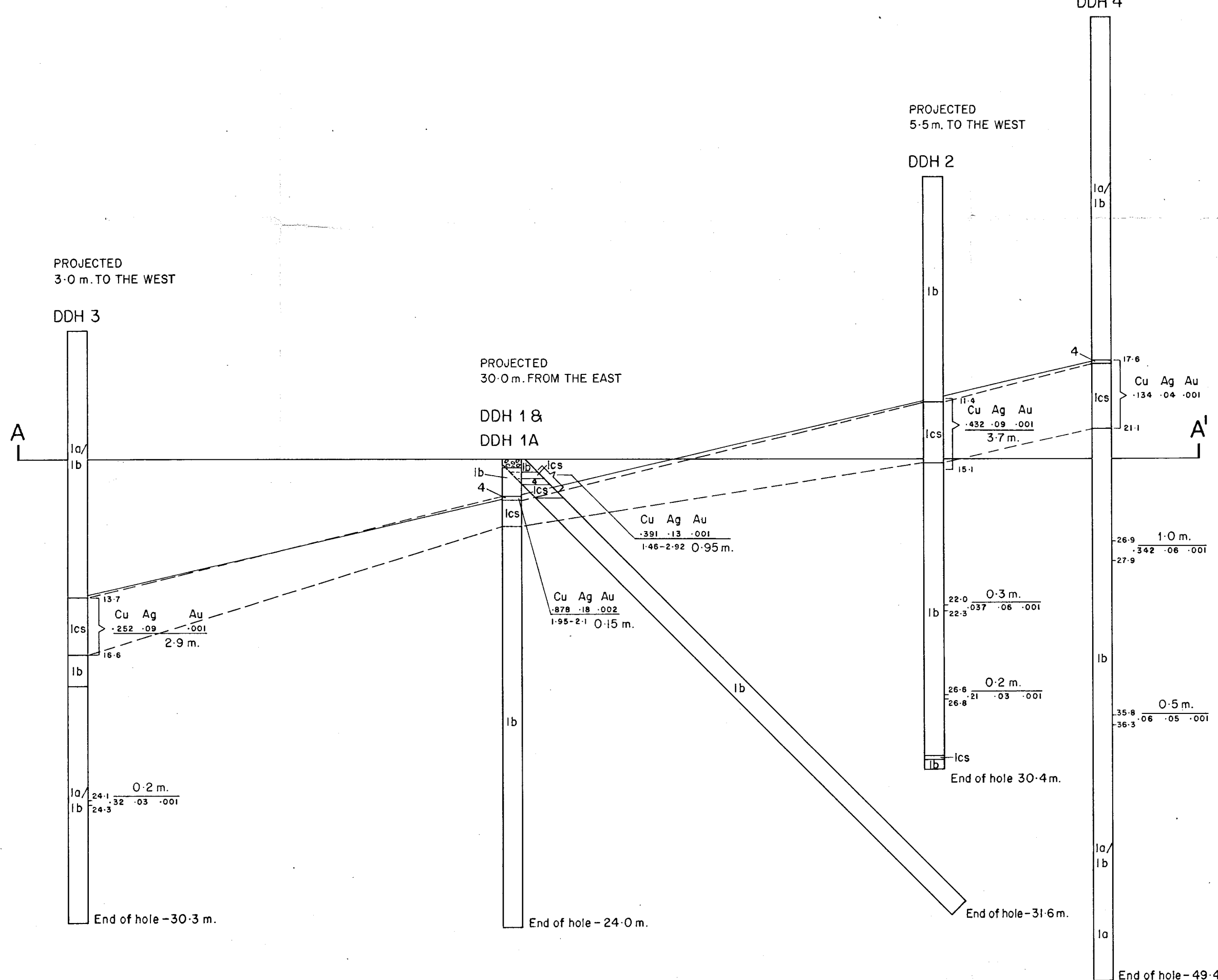
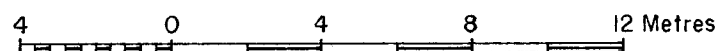
R. Nelson

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CON-AM RESOURCES
DONNER LAKE PROPERTY
GEOLOGICAL SECTIONS THROUGH DRILL HOLES
DDH 1, DDH 2, DDH 3 & DDH 4

Scale	1:200	Figure No.	12
Geology by:	JoAnne Nelson M.Sc.	Date:	November 1979
		Drawn by:	EDCO

SCALE



End of hole - 30.3 m.

End of hole - 24.0 m.

End of hole - 31.6 m.

End of hole - 49.4 m.

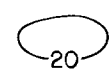
End of hole 30.4 m.





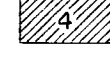
MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
8037
NO.

LEGEND

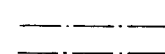

GEOPHYSICAL SYMBOLS

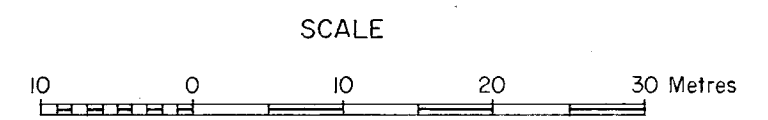
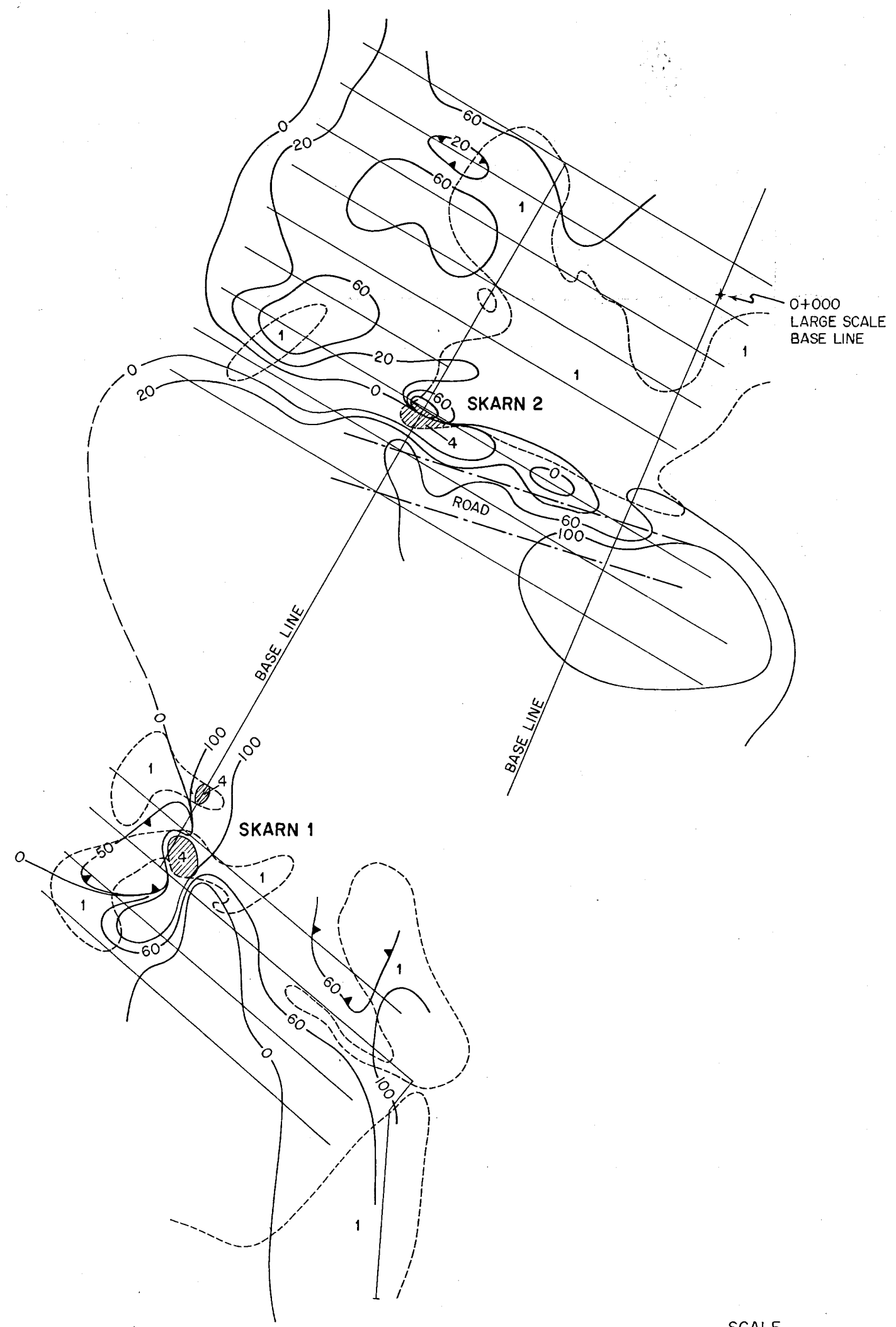
 Magnetic contours
in 10s of gammas
(vertical component)

GEOLOGICAL SYMBOLS

 Outcrop border
 Karmutsen basalts
 Skarn

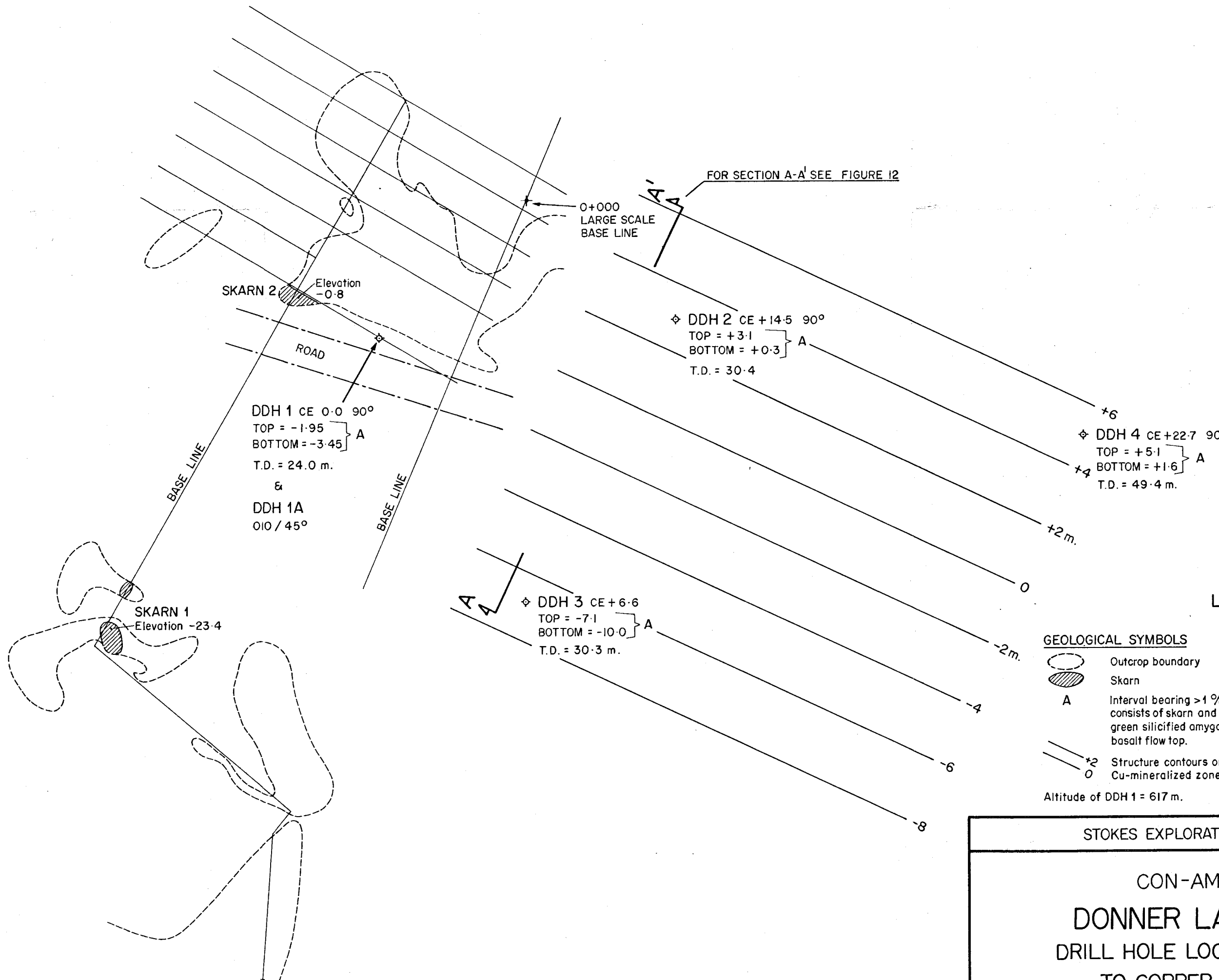
OTHER SYMBOLS

 Road
 Grid lines



STOKES EXPLORATION MANAGEMENT CO. LTD.	
CON-AM RESOURCES DONNER LAKE PROPERTY GROUND MAGNETOMETER DETAILED SURVEY MAP SKARNS 1 AND 2 AND VICINITY	
SCALE 1:500	FIGURE No. 9
SURVEY BY: JoAnne Nelson M.Sc. Brian Hatelt	DATE: NOVEMBER 1979
	DRAWN BY: EDCO

R. B. Stokes



MINERAL RESOURCES BRANCH
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8037
NO.

LEGEND

GEOLOGICAL SYMBOLS

- Outcrop boundary
- Skarn
- Interval bearing >1% Cu, consists of skarn and pale green silicified amygdaloidal basalt flow top.
- Structure contours on top of Cu-mineralized zone

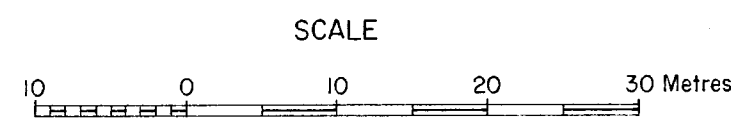
OTHER SYMBOLS

- Road
- Grid lines
- Diamond drill hole - AX core

Altitude of DDH 1 = 617 m.

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CON-AM RESOURCES
DONNER LAKE PROPERTY
DRILL HOLE LOCATIONS AND DEPTHS
TO COPPER MINERALIZATION



SCALE	1:500	FIGURE No.	11
SURVEY BY:	JoAnne Nelson	DATE:	NOVEMBER 1979
		DRAWN BY:	EDCO