A REPORT ON THE FAIRSERVICE PINE LAKE PROPERTY STRAW LAKE, ONTARIO N.T.S. 52F/3NW

R.T. Lucas,
Thunder Bay, Ont.

September, 1980.

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INTRODUCTION

The purpose of this project was to investigate the Pine Lake (Fairservice) gold occurrence and the surrounding area for possible economic accumulations of gold and/or silver mineralization. Geological, geochemical and geophysical methods of exploration were used.

The showing and vicinity, optioned by Selco from R.J. Fairservice, is within the Lawrence Lake Batholith in the Kenora Mining Division. Since the showing is within a batholithic body a weak analogy to the Belmoral 'type' deposit can be made.

Results to date have not indicated economic quantities of gold or silver.

The Pine Lake property falls within the Straw Lake Project Area, exploration in which is subject to a letter of agreement between Dome Exploration and Selco Mining, with Selco managing the project.

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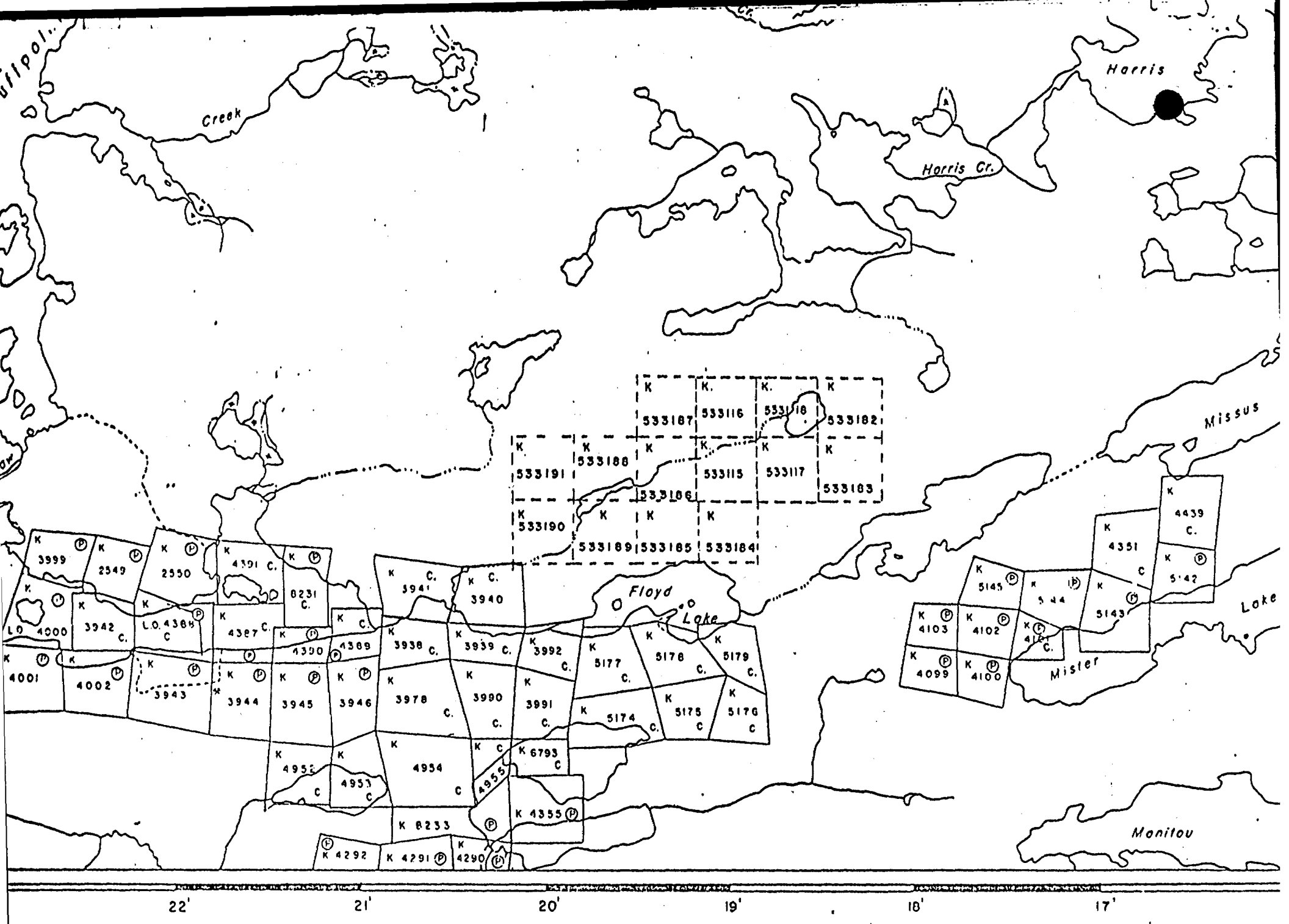
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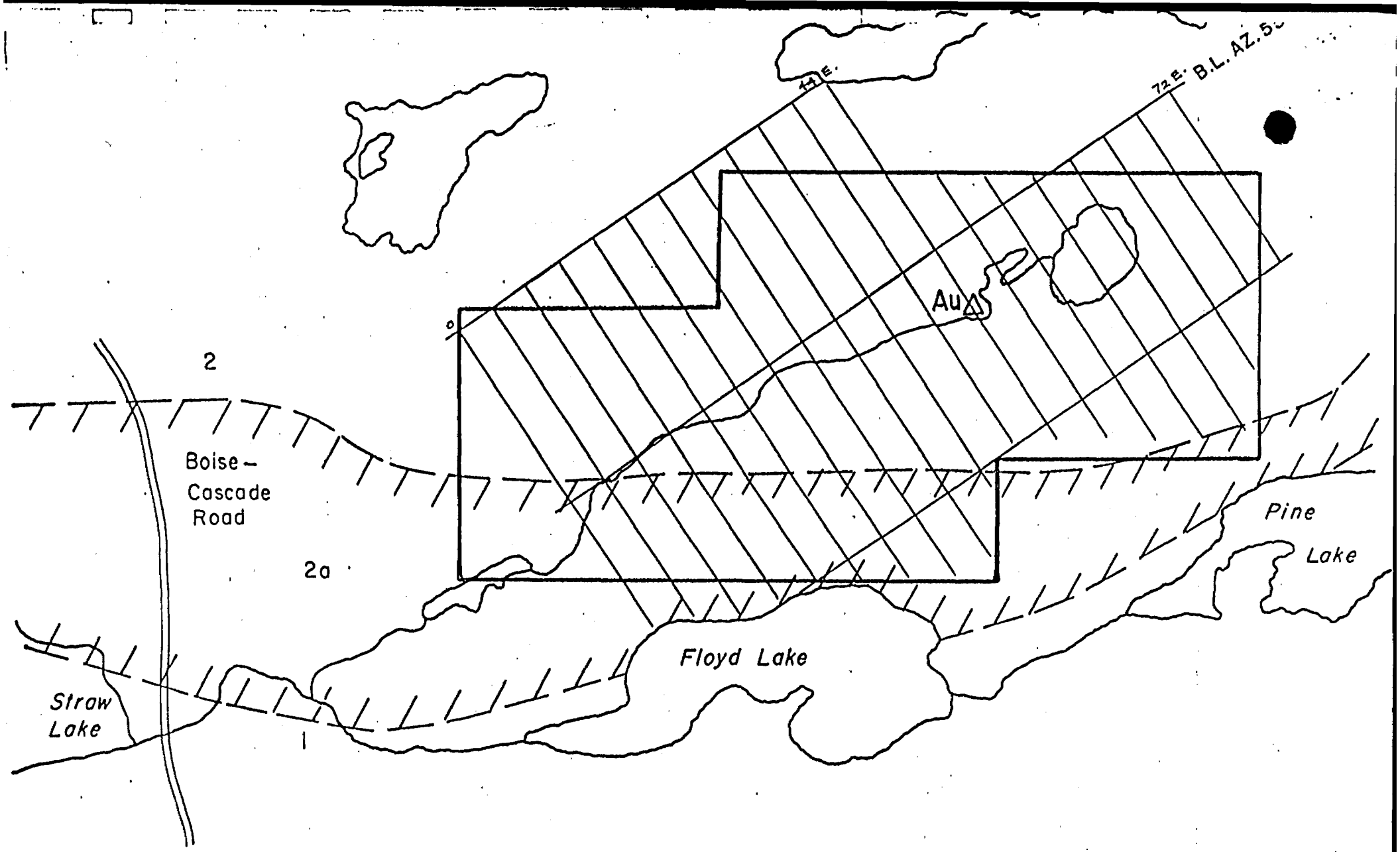
LAKE M-2430



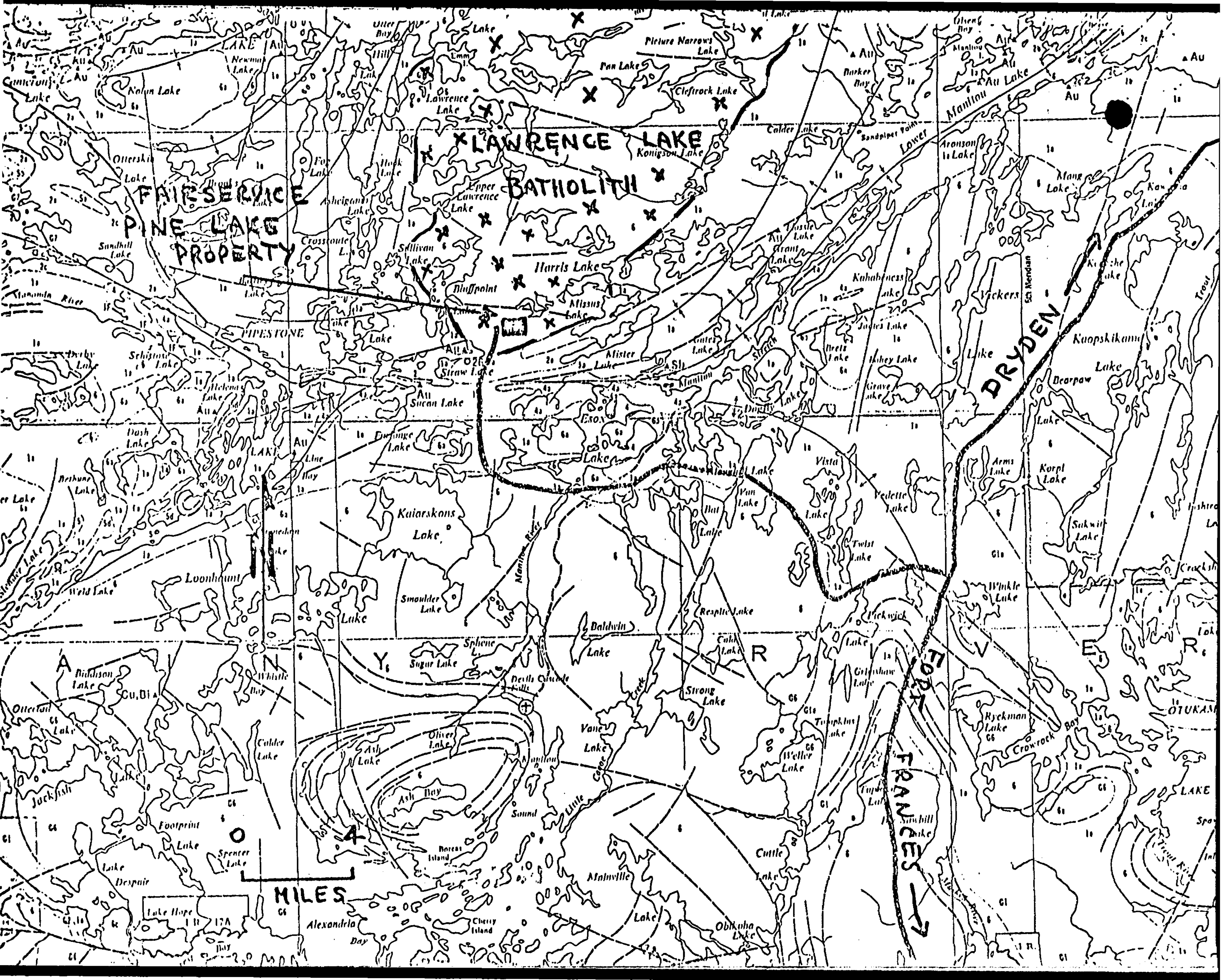
LEGEND

2	Granodiorite
2a	Border Phase of Granodiorite
1	Intermediate and some Felsic Volcanics

FAIRSERVICE GOLD PROPERTY

STRAW LAKE PROJECT

1" = 1/4 mile APRIL '80


LAWRENCE LAKE
BATHOLITH
FAIRSERVICE
PINE LAKE
PROPERTY
DRYDEN
FORT FRANCES
MILES
Lawrence Lake
Upper Lawrence Lake
Sullivan Lake
Harris Lake
Bluffpoint Lake
Missus Lake
Straw Lake
Sucan Lake
Picture Narrows Lake
Pan Lake
Cleftrock Lake
Calder Lake
Konigson Lake
Nolan Lake
Newman Lake
Otterskin Lake
Sandhill Lake
Crosscroute Lake
Ashigamis Lake
Pipestone
Schistose Lake
Dash Lake
Bethune Lake
Weld Lake
Loonhaunt Lake
Kaiarskons Lake
Smoulder Lake
Dufonge Lake
Line Bay
Eson Lake
Mister Lake
Manitou
Aronson Lake
Lower Manitou
Mang Lake
Kahabeness Lake
Vickers Lake
Kaopskikamak Lake
Bearpaw Lake
Arms Lake
Korpi Lake
Sakwite Lake
Winkle Lake
Vista Lake
Vedette Lake
Twist Lake
Pickwick Lake
Resplte Lake
Baldwin Lake
Strong Lake
Vane Lake
Sugar Lake
Sphene L.
Devils Cascade Falls
Oliver Lake
Ash Lake
Ash Bay
Sound
Little Canoe Creek
Weller Lake
Tompkins Lake
Cuttle Lake
Malnville Lake
Oblkoba Lake
Ryckman Lake
Crowrock Bay
OTUKAM
Riddson Lake
Ottertail Lake
Jackfish Lake
Footprint Lake
Spencer Lake
Lake Despair
Lake Hope
Alexandria Bay
Cherry Island
Whistle Bay
Calder Lake
A
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Au

LOCATION, ACCESS AND PROPERTY DESCRIPTION

The 14 claim property is located in the Straw Lake area, approximately 60 km north of Fort Frances.

Access is via a Boise-Cascade logging road from the newly constructed Dryden-Fort Frances Highway. The grid is about ½ mile east of where the logging road passes Straw Lake.

PREVIOUS WORK

There is no record at the assessment work branch of the O.G.S. of previous exploration on the Fairservice Property. R.J. Fairservice has numerous assay results including those taken by Amax in 1979 (Anderson, 1980). The outcrop hosting the mineralization has been partially stripped and three short drill holes (1' to 2') for sampling have intersected veins 49, 54 and 55. A small grid and an expired claim post (Hall) were found nearby.

During the past two summers, O.G.S. Geologist Scott has examined the showing as part of a regional programme to determine the effectiveness of using a leaching process for recovering gold from ore.

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Mining exploration for base metals in the general Straw Lake area has been conducted by Freeport Can. Expl. (1970-71), Inco (1971) and Conwest (1952). All other exploration has been for gold or gold-silver deposits. Refer to a compilation of assessment work for the Straw Lake Area (Berezowskyj, March, 1980).

CURRENT PROGRAM

A grid was cut and a magnetic survey completed during the winter of 1980.

Summer activities consisted of geological mapping, and a two station VLF (EM-16) survey over the gridded area. Detailed channel sampling was conducted over a large portion of the mineralized outcrop.

Fall activities will consist of the completion of channel sampling, and additional sampling across the grid area. Two Winkie drill holes are scheduled to test the showing itself.

REGIONAL GEOLOGY

The property straddles a portion of the SE contact between the Lawrence Lake Batholith and the Straw Lake volcanics.

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Both rock suites form a part of the Wabigoon Volcanic-Plutonic Belt of the Superior Structural Province.

The Lawrence Lake Batholith is represented by three main phases, an early subordinate amphibole diorite to gabbro phase, a diorite to quartz diorite phase, and a later granodiorite to trondhjemite phase (Edwards, 1980), which hosts the Pine Lake showing.

Volcanic rocks to the immediate south comprise a mixed suite of felsic to mafic flows and pyroclastics, including numerous feldspar porphyry sheets (Anderson, 1980). Approximately 2.5 km south of the property, the Manitou-Pipestone Fault separates the aforementioned volcanics from an accumulation of complexly folded, largely mafic flows, intrusives and sediments. Some felsic volcanics have been noted in this group south of Straw Lake.

GRID GEOLOGY

Five mappable rock units were determined, assisted by the ground magnetic survey. Mappable rock units from north to south are:-

(A) diorite-quartz diorite intrusive phase (Dior.-Q.D.),

(B) non-magnetic (T_1) and magnetic (T_2) granodiorite to trondhjemite intrusive phase,

5/....

(C) mixed contact phase,

(D) mixed suite of felsic to mafic metavolcanic rocks,

(E) feldspar porphyry, and quartz-feldspar porphyry dykes.

(A) Diorite-Quartz Diorite

Hornblende diorite and quartz diorite form the northern phase of the batholith and underlie portions of the northern grid area. A mafic actinolite diorite is rarely seen and may be inclusions from a western amphibole diorite to gabbro phase. A thin section of quartz diorite has the composition hornblende 20%, plagioclase (? %), biotite 6%, quartz 10% and accessory apatite, opaques and zircon (Edwards, 1980).

(B) Granodiorite to Trondhjemite

(i) Non-Magnetic

This unit, T_1 underlies the north central portions of the grid area and is in contact to the north with the diorite-quartz diorite. The contact is sharp and marked by a breccia of the latter in a matrix of T_1. The showing is within this unit at the south contact with unit T_2, magnetic trondhjemite.

(ii) Magnetic

This unit, T_2, differs from T_1 in magnetite content and in several isolated outcrops it contained up to

70% potassium feldspar (microline?). Unit T_2 is clearly defined on the magnetic map as a magnetic high striking across the central portions of the grid. A thin section of granodiorite to trondhjemite has the composition plagioclase 40% (sericitic alteration), nicrocline 10%, quartz 30%, biotite 7%, commonly magnetite 3%, epidote 2% with accessory zircon, apatite and tourmaline (Edwards, 1980).

(C) Mixed Contact Phase

Separating the magnetic trondhjemite from the volcanic rocks is a contact phase consisting of at least three or four rock types. Rock types identified within this phase include:

(i) diorite
(ii) quartz-rich leucocratic, trondhjemite (T_4)
(iii) non-magnetic trondhjemite (T_1)
(iv) breccia consisting of volcanic fragments in matrix of non-magnetic trondhjemite (T_3).

(D) Metavolcanic Rocks

This unit is noted on the south-east extremes of the grid and consists largely of massive mafic volcanics, amphibolitic in places. These rocks appear black or dark green on weathered surfaces and generally strike in an east-west direction.

(E) Dyke Rocks

Quartz feldspar porphyry and feldspar porphyry dykes intrude all of the other rock units. The dykes are pale grey-green, usually with an aphanitic matrix hosting minute quartz eyes and 1-3mm grey feldspar phenocrysts. Widths range from about 1 foot to +20 feet. Most dykes are orientated along an E-W trend; one dyke strikes N-S.

STRUCTURE

Air photographs suggest a major lineament striking about 025°, in the immediate vicinity of the showing. This may account for deformation observed in unit C, south of the showing.

Structural measurements from the grid area are plotted on Rose Diagrams (Appendix I) and show a preferred joint and shear orientation of 070-080°, dipping predominantly south.

GRID GEOPHYSICS

Instruments used were a McPhar M-700 magnetometer, and VLF (EM-16) using transmitting stations Seattle and Annapolis.

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Magnetic data proved useful for outlining the areas underlain by the magnetite-bearing trondhjemite, and indicated a dipole anomaly in the immediate vicinity of the showing (see Straw Lake Area - Mag Survey).

Filtered VLF-EM data reveals that several anomalies lie within low swampy areas, suggesting an overburden source. Other anomalies fall within outcrop areas implying a bedrock source. Conductive material was not encountered during the geological survey. A very broad conductive trend crudely follows the magnetic high and trend of swamp in the central portions of the grid (see Straw Lake Area - VLF (EM-16) survey).

MINERALIZATION

(1) The Showing

The showing outcrop is located about 200 feet east of line 44.00E at 9S on the grid.

PLATE 1: THE SHOWING OUTCROP

9/....

Stripping the outcrop of regolith revealed 10 quartz veins, within tension fractures, striking 100° and dipping shallowly south. (For vein locations see outcrop drawing - Appendix II). Veins vary in size from 0.25 to 7.62 cm and, all but veins 13 and 18 contain disseminated, (up to 5%) pyrite mineralization. A photograph of each vein is shown below.

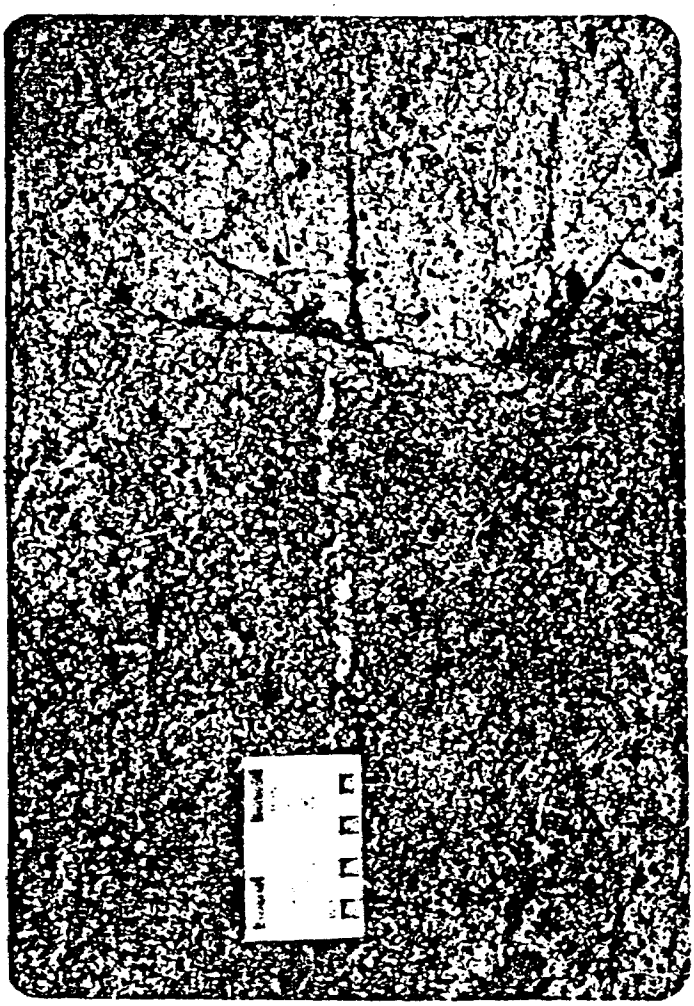

PLATE 2: VEIN 13

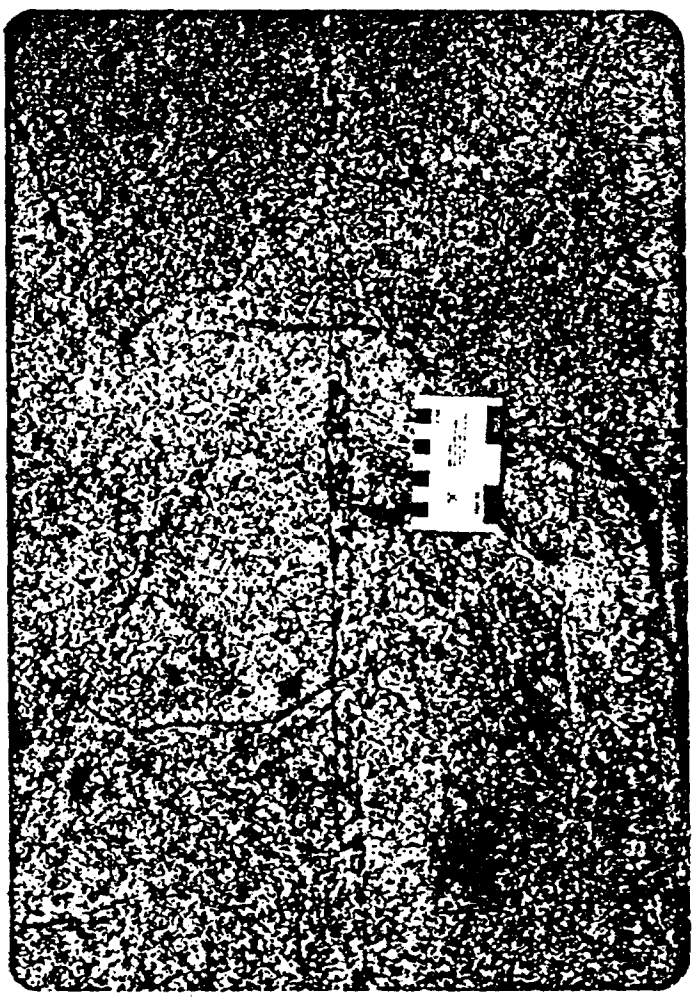

PLATE 3: VEIN 18

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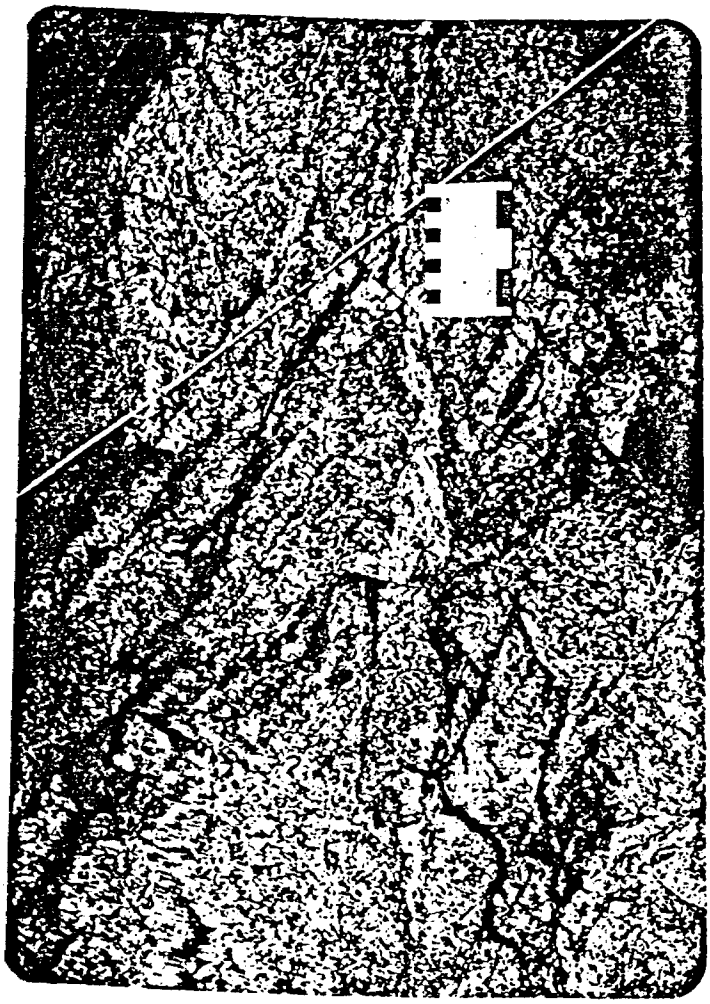

PLATE 4: VEIN 24

PLATE 5: VEIN 25

PLATE 6: VEIN 40

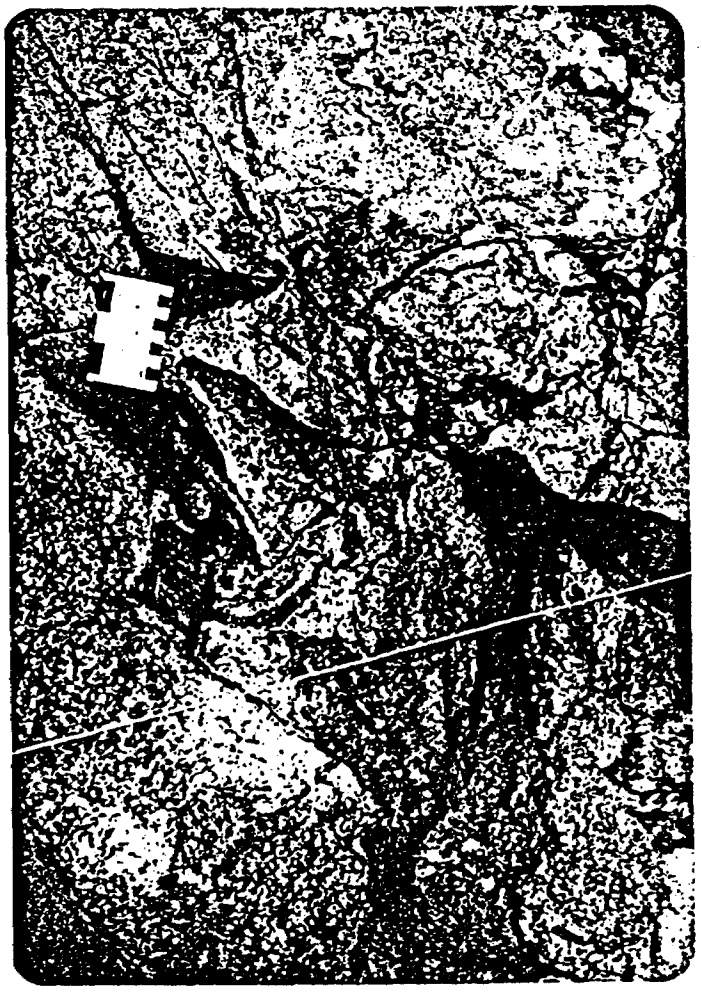

PLATE 7: VEIN 45

12/....

PLATE 8: VEIN 49

PLATE 9: VEIN 54

PLATE 10: VEIN 55

PLATE 11: VEIN 59

The complete length of the outcrop has been sampled by two foot channel samples taken along the string line shown in Plates 12 and 13. All channel samples are normal or near normal to strike. Sample locations and values are shown on the geology grid map and on the showing sketch (Appendix II). The weighted average for all samples along the length of outcrop is about 0.02 oz/Ton (0.69 g/T).

PLATE 12: CHANNEL LOCATION

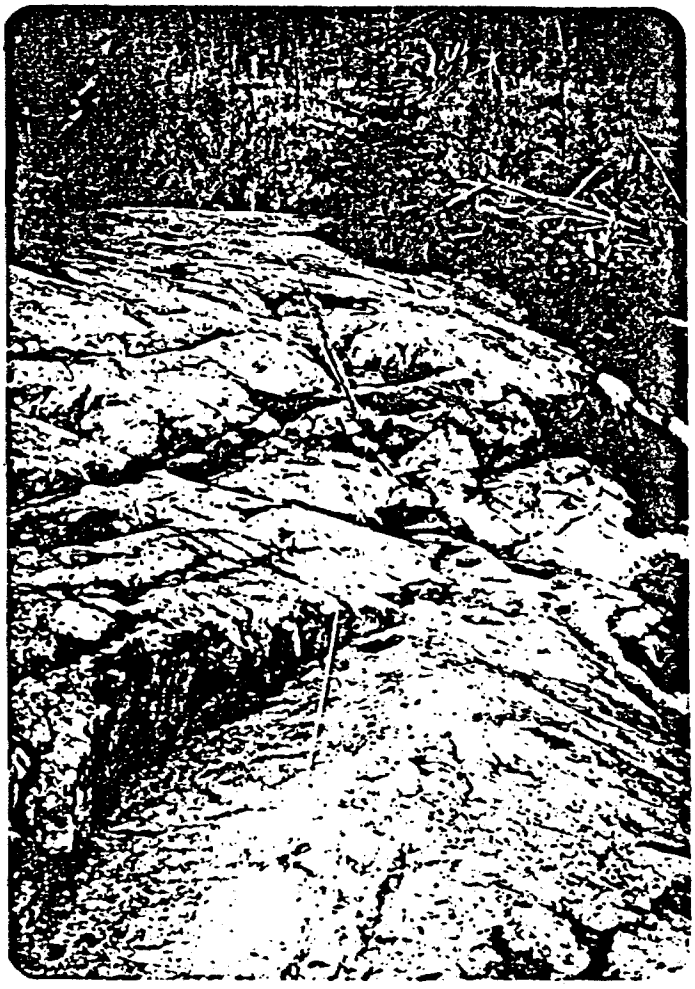

PLATE 13: CHANNEL LOCATION

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(2) Other Mineralization on The Grid

Many quartz veins and/or shear zones are encountered in the grid area, randomly located and variable in size and mineralization. Quartz veins varied from a few mm to at least 7 meters in width with varying mineralization of Fe carbonate and up to 5% pyrite to barren. The larger, white quartz vein systems tend to be barren. Commonly, shear zones contained quartz with similar variations in size and mineralization.

Several of the quartz and/or shear zones, both with and without visible sulphides were assayed for Au-Ag. Highest value is 0.04 oz/T Au. A list of assays is included in Appendix II.

CONCLUSIONS

Results to date have not indicated economic quantities of gold or silver, however the future sampling and diamond drill results must be received before a definite conclusion on the showing may be drawn.

16/....

All of the data gathered indicates gold, pyrite and minor chalcopyrite mineralization within the general area, thus the potential for gold and/or base metals is considered good.

RECOMMENDATIONS

It is recommended that further sampling on the grid be conducted, particularly along the air photograph lineament near the showing.

Assays for silver have been exceeding low therefore it is recommended future assaying exclude this metal. The sampling mentioned above could be completed during the drill program.

In addition to the Winkie hole already planned, a second hole is recommended to test for a possible N-S structure immediately east of the outcrop, passing under the creek, pond and beaver dam.

It is further recommended that time be spent, on a reconnaissance basis, to determine the extent of felsic units within the volcanic assemblage, as a preliminary step toward a possible base metal and/or gold exploration program.

Respectfully submitted,

Robert T. Lucas.

fa

REFERENCE LIST

ANDERSON, W.J., 1980: Review and Outline of Proposed work for the Fairservice Gold Project.

BEREZOWKYJ, M., 1980: Fairservice Option Area - Straw Lake Assessment Compilation.

EDWARDS, G.R., 1980: Straw Lake Area, District of Rainy River and Kenora, O.G.S. O.F.R. - 5292.

EDWARDS, G.R., and SUTCLIFFE, R.H., 1977: Straw Lake Area, District of Rainy River and Kenora, O.G.S. Preliminary Map 1243.

THOMPSON, J.E., 1935: Geology of Rowan-Straw Lake Area, O.D.M., Volume 44, pt. 4.

THOMPSON, J.E., 1934: Geology of Straw-Manitou Lakes Area, O.D.N., Volume 44, pt. 4.

MAGNETIC - REGIONAL

G.S.C., G.P. 1160 - Harris Lake.

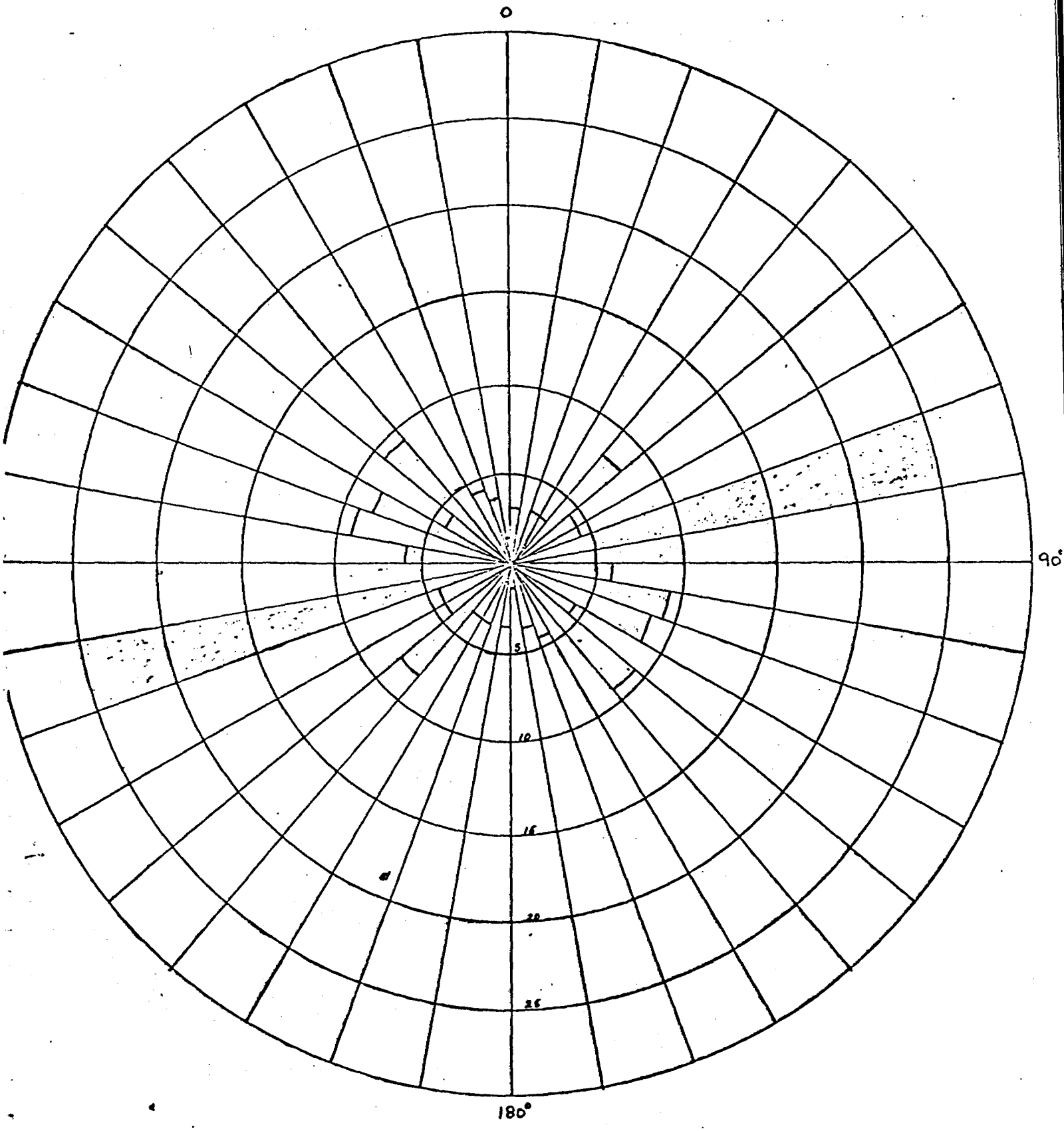
APPENDIX I

ROSE DIAGRAMS

JOINTS

PREFERRED ORIENTATION

123 JOINTS



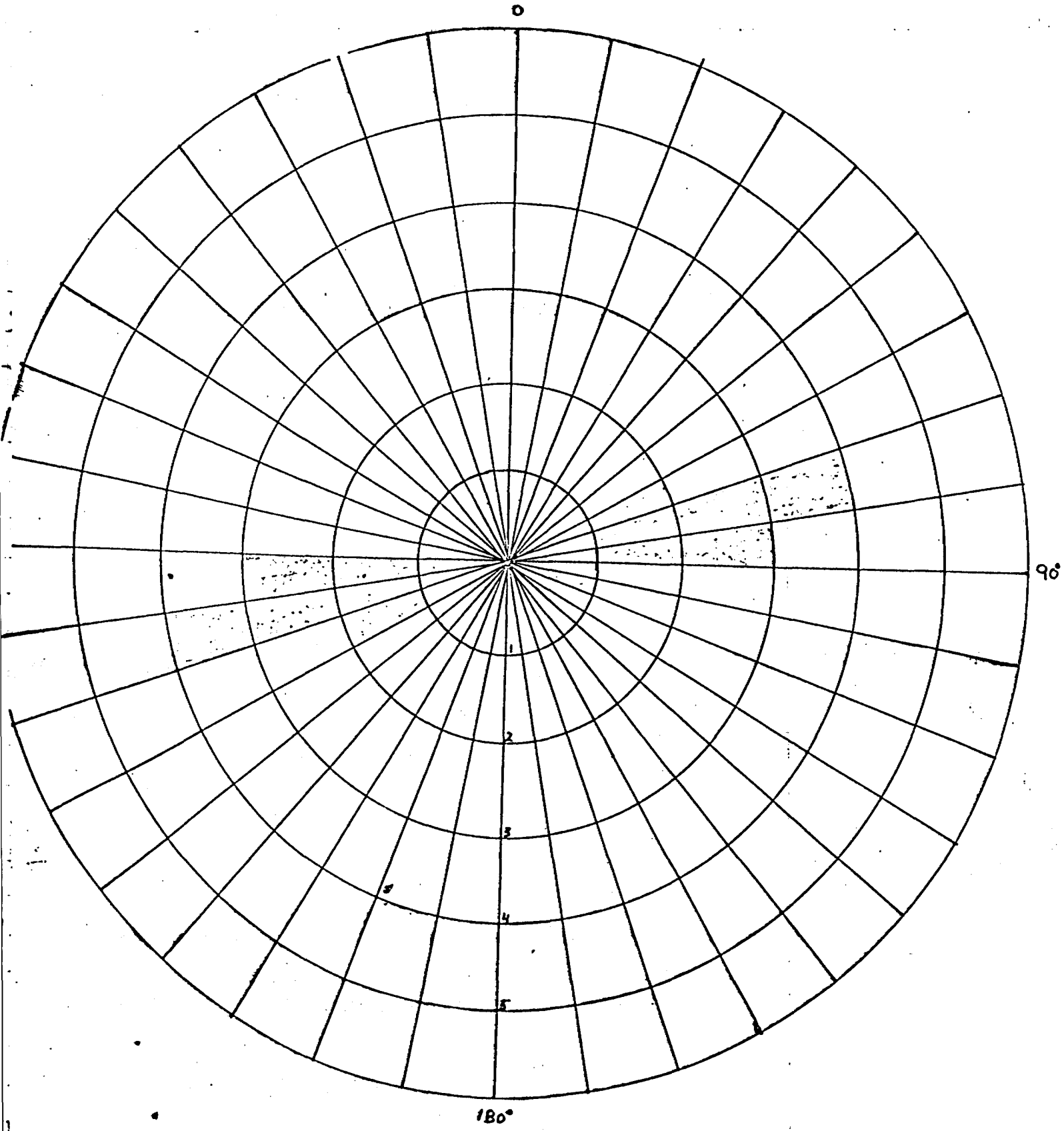
ROSE DIAGRAM

FAIRSERVICE PROPERTY

SHEAR ZONES

PREFERRED ORIENTATION

12 SHEARS



ROSE DIAGRAM

FAIRSERVICE PROPERTY

APPENDIX II

ASSAYS AND LOCATION

(Some Locations on Geology Map
and Reconnaissance Sketch)

FAIRSERVICE OPTION 06130
STRAW LAKE ONTARIO

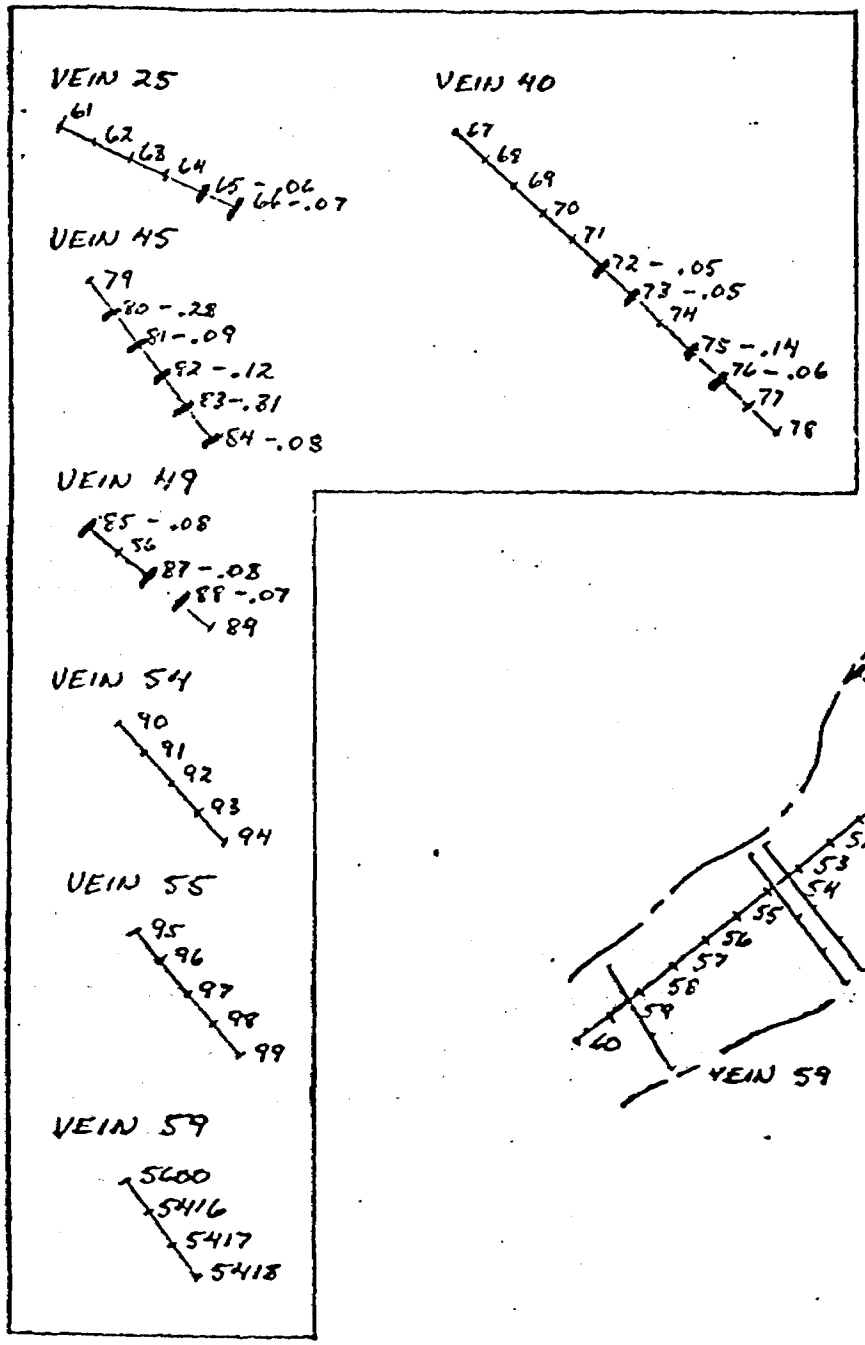
SAMPLE PLAN AUG. 1980

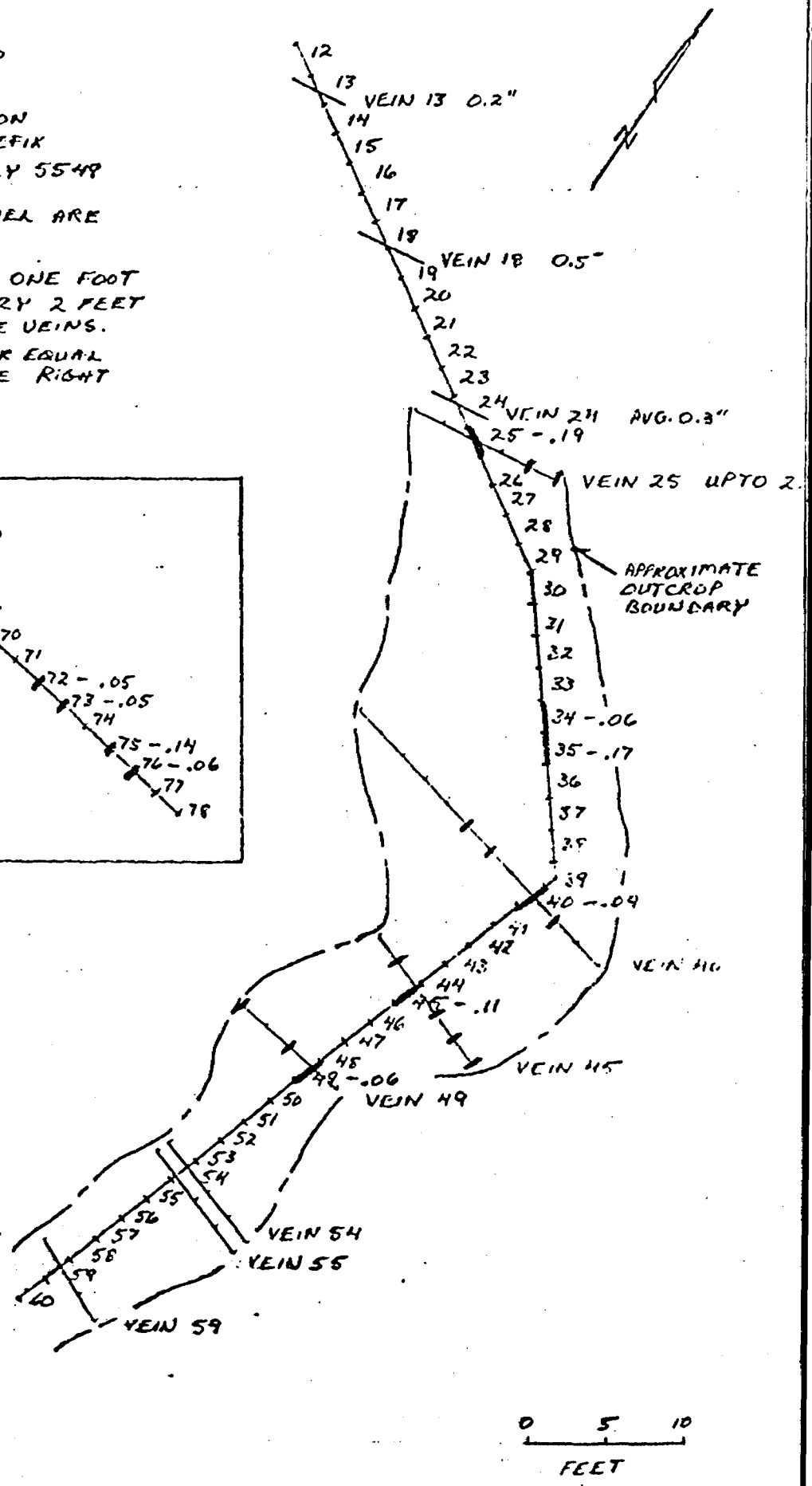
NOTE: ALL SAMPLE NUMBERS ARE AS ON SAMPLE TAGS EXCEPT FOR PREFIX 55 – i.e. SAMPLE 49 IS ACTUALLY 5549

ALL SAMPLES ON MAIN CHANNEL ARE 2 FEET IN LENGTH

ALL SAMPLES ON VEINS ARE ONE FOOT CROSS CHANNELS TAKEN EVERY 2 FEET ALONG EXPOSED STRIKE OF THE VEINS.

GOLD VALUES GREATER THAN OR EQUAL TO 0.05 ARE PLOTTED ON THE RIGHT OF SAMPLE NO.'S. i.e. 49 – .06



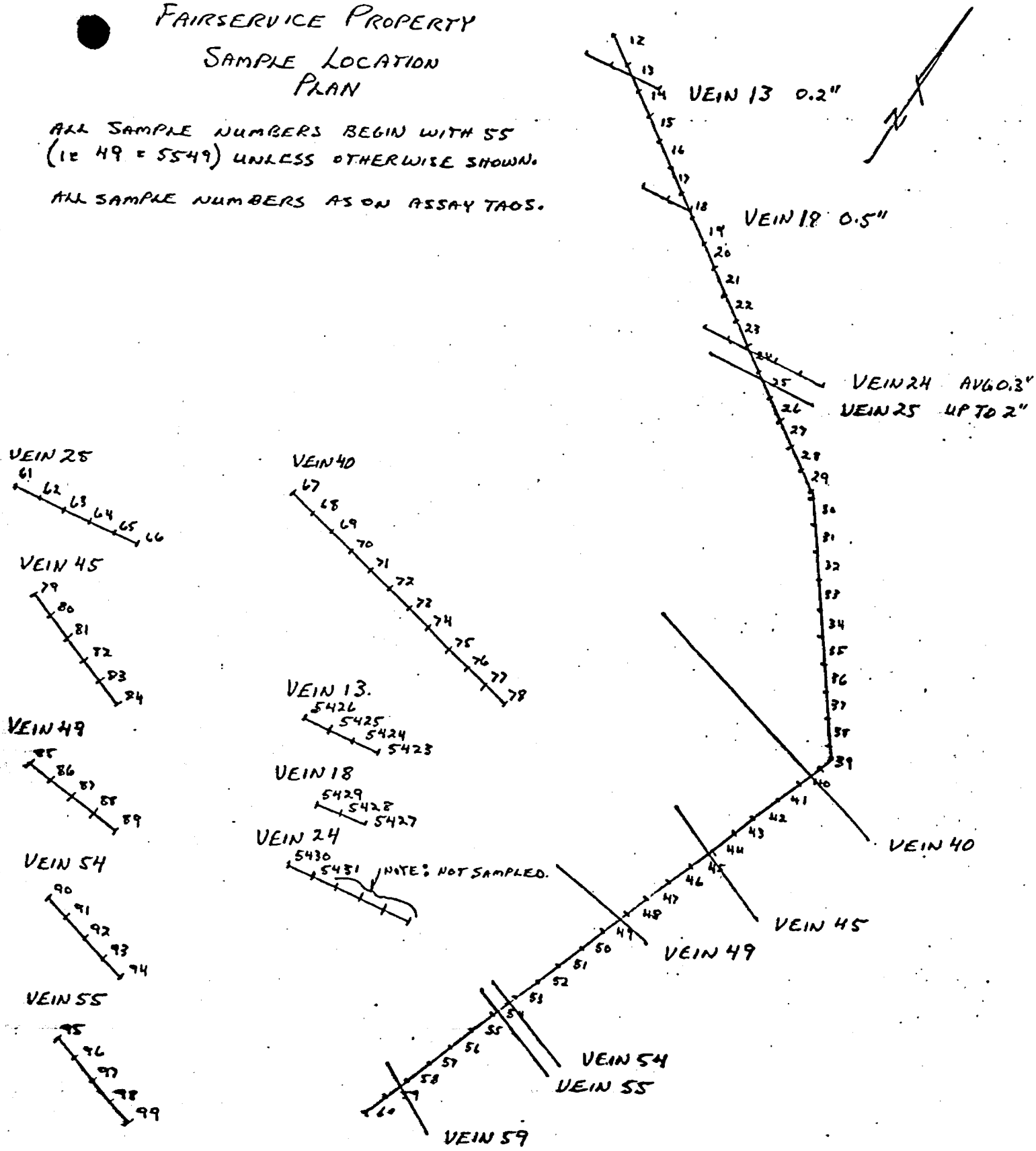


FAIRSERVICE PROPERTY

SAMPLE LOCATION PLAN

ALL SAMPLE NUMBERS BEGIN WITH 55 (IE 49 = 5549) UNLESS OTHERWISE SHOWN.

ALL SAMPLE NUMBERS AS ON ASSAY TAGS.



SWASTIKA LABORATORIES LIMITED
P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE: (705) 642-3244
ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

Certificate No. 49759 Date: Aug.1, 1980

Received July 25, 1980 38 Samples of Ore

Submitted by Selco Mining Corporation, Thunder Bay, Ontario Per:M. Berezowskyj

CHANNEL SAMPLES

SAMPLE NO.	GOLD Oz./ton	SILVER Oz./ton
5523	NIL	Trace
5524	NIL	NIL
5525	0.19	0.02
5526	0.02	NIL
5527	0.002	NIL
5528	0.002	Trace
5529	NIL	NIL
5530	0.002	NIL
5531	0.04	Trace
5532	0.002	Trace
5533	0.002	NIL
5534	0.06	Trace
5535	0.17	0.04
5536	0.02	Trace
5537	0.002	Trace
5538	0.002	NIL
5539	0.01	NIL
5540	0.09	0.02
5541	0.005	Trace

con't....

Per G. Lebel

G. Lebel, Manager

SWASTIKA LABORATORIES LIMITED
P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE: (705) 642-3244
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Certificate of Analysis

Certificate No. 49759 Date: Aug. 1, 1980

Received July 25, 1980 38 Samples of Ore

Submitted by Selco Mining Corporation, Thunder Bay, Ontario

CHANNEL SAMPLES

SAMPLE NO.	GOLD Oz./ton	SILVER Oz./ton
5542	NIL	NIL
5543	NIL	Trace
5544	0.005	NIL
5545	0.11	0.04
5546	0.01	Trace
5547	0.01	NIL
5548	0.01	NIL
5549	0.06	0.03
5550	NIL	NIL
5551	0.002	NIL
5552	0.01	Trace
5553	0.01	Trace
5554	0.01	Trace
5555	0.01	Trace
5556	0.002	0.04
5557	NIL	NIL
5558	0.002	NIL
5559	0.02	Trace
5560	0.002	NIL

Per G. Lebel
G. Lebel, Manager

ESTABLISHED 1928

COCHENOUR FIRE ASSAYING

Phone: Bus. 756-3521
Res. 756-3341

J.W. Beck, Assayer,
Box 43, Cochenour, Ont.

"...aying over 30 Years"

ASSAY CERTIFICATE

Date: Aug. 13-80

To Delco Mining Corporation Ltd.

No.	Description	oz/ton Au	oz/ton Ag
01 ✓	Chips. L36E, 15+20 S	.04	Nil
02 ✓	52E 26 S	.02	"
03 ✓	60E 24+65 S	.01	"
06 ✓	40E 15 S	Trace	"
07 ✓	24E 6S	"	"
08 ✓	44E 5+70 S	.03	"
5412 ✓	48 E 26+60 S	Trace	"
13 ✓	44E 13 S	.02	"
14 ✓	48E 21+20 S	Trace	"
15 ✓	24E 17+50 S	"	"
16	CHANNEL SAMPLE	.03	"
17	" "	.03	"
18	" "	Trace	"
19 ✓	L8E - 16 N	Trace	"
20 ✓	45' SE of FAIRSERVICE SHOWING	.01	"
5522	CHANNEL #22	Trace	"
5561	CHANNEL -VEINS	.03	"
62	"	.01	"
63	"	.10	"
64	"	.06	"
65	"	.07	"
66	"	.03	"
67	"	.02	"
68	"	Trace	"

Assayer: J.W. Beck

COCHENOUR FIRE ASSAYING

Phone: Bus. 755-3521
Res. 756-3341

J.W. Beck, Assayer,
Box 43, Cochenour, Ont.

"...ying over 20 Years"

ASSAY CERTIFICATE

Date: Aug. 13-80

...ucleo Mining Corporation Ltd.

No.	Description	oz/ton Au	oz/ton Ag
569	Chrs. CHANNEL SAMPLES	Trace	Nil
70		"	"
72		"	"
73		.05	"
74		.05	"
75		.04	"
76		.14 ✓	"
77		.06	"
78		.03	"
79		.04	"
80		.01	"
81		.28 ✓	"
82		.09	"
83		.12	"
84		.31	"
85		.08	"
86		.08	"
87		.01	"
88		.08	"
89		.07	"
90		.02	"
91		.02	"
92		.02	"
		Trace	"

Assayer: Jas Beck

COCHENOUR FIRE ASSAYING

J.W. Beck, Assayer,
Box 43, Cochenour, Ont.
Phone: Bus. 755-3521
Res. 756-3341

"...aying over 30 Years"

ASSAY CERTIFICATE

Date: Aug. 13-80

To Selco Mining Corporation Ltd.

No.	Description	oz/ton Au	oz/ton Ag
5503	Chips. CHANNEL SAMPLES	Trace	Nil
04		.03	"
95		Trace	"
96		.04	"
97		.03	"
98		.02	"
99		.03	"
5600		.04	"
	BY XRAL LABS		
5404	L60E 6S	tr	tr.
05 ✓	L60E 6S	NIL	NIL
09 ✓	~ L44E 3+35S (W side)	.03	NIL
10 ✓	~ L44E 3+50S (S side)	.04	tr
11 ✓	~ L44E ~ 3+70S (E side)	NIL	tr
421	[redacted] STRAW LK ROAD	tr	NIL
422	[redacted] STRAW LK. ROAD	tr	NIL.

Assayer: Jas Beck

COCHENOUR FIRE ASSAYING

Phone: Bus. 756-3521
Res. 756-3341

J.W. Beck, Assayer,
Box 43, Cochenour, Ont.

"Assaying over 30 Years"

ASSAY CERTIFICATE

Date: Oct. 14-80

To Selco Mining Corporation Ltd.

No.	Description	oz/ton Au	oz/ton Ag
423	Chips. VEIN 13	Trace	
24	"	"	
25	"	"	
26	"	"	
27	VEIN 18	.04	
28	"	.02	
29	"	.01	
30	VEIN 24	Trace	
31	"	"	
512	CHANNEL SAMPLES- MAIN ZONE ACROSS	"	
13		"	
14		"	
15	Channel Samples Straw Lake	"	
16		.01	
17		Trace	
18		.02	
		.01	
20		Trace	
		"	

Assayer: Jas. Beck

REPORT ON THE GEOLOGICAL SURVEY

OF THE

STRAW LAKE AREA

FAIRSERVICE OPTION

W.C. Kerr

June 30, 1981

INTRODUCTION

This report summarizes the work performed on the Fairservice Gold area in Northwestern Ontario from May 11 to June 27, 1981. Grid mapping over the 1981 grid (06418) and sampling of alteration zones was done. Detailed mapping and sampling was done over the line 16+00E showing and the Fairservice showing number 2 (creek zone). In addition, detailed mapping and sampling was accomplished over the VLF-EM anomaly and other alteration zones on the 1980 grid (06417).

LOCATION

The Fairservice Gold area is located northeast of Straw Lake, between Dryden and Fort Frances in northwest Ontario. Excellent access is provided by an all-weather road maintained by Boise-Cascade for on-going logging operations.

GENERAL MAPPING AND SAMPLING PROCEDURE

Grid mapping was undertaken over the 1981 grid (06418) which was cut at 400 ft. line spacings. All outcrops which were visible from the line were mapped. The topography of the grid was generally rugged, so outcrop density was quite good. All altered outcrops and quartz veins were routinely sampled. Sampling procedure consisted of 5 foot chip samples generally normal to the foliation for altered outcrops, and grab samples from quartz veins.

GEOLOGY

The Fairservice Gold area lies within the Lawrence Lake Batholith, near its southern boundary where it is in contact with mafic to felsic metavolcanics. The following rock types were recognized in the field: (Note that the Legend incorporates some rock lithologies and symbols used by Edwards and Sutcliffe in their 1977 P - Series geological map).

9 - Lawrence Lake Batholith

a - Mixed Contact zone

b - Pink feldspathic granodiorite

c - White granodiorite

d - Cherty weathering chilled granodiorite

e - Impure granodiorite

q - Feldspar porphyry, porphyry dikes

v - Aplitic and felsite dykes

6 - Mafic Intrusive Rocks

a - Biotite - hornblende diorite

b - Biotite - hornblende quartz diorite

Granodiorite was the major rock type observed in the area. The most prevalent variety was a pink feldspathic granodiorite. This was massive, medium grained, pink to red on weathered and fresh surface, and commonly formed ridges and high relief hills. Biotite, hornblende, and occasional magnetite were the predominant mafic minerals.

White granodiorite, possibly variety trondhjemite, was much less widespread, only occuring locally with no continuity. It was slightly coarser grained, and was characterized by the absence of pink feldspars.

Chilled, cherty - weathering granodiorite was exposed sporadically about the grid but was most predominant near the contact with the metavolcanics. Pyrite occurs locally as euhedral disseminations. The colour on fresh surface varied from pale pink to green.

Impure granodiorite was commonly fine to medium grained, and was characterized by including sometimes partially resorbed clasts of diorite, quartz diorite. and pink feldspathic granodiorite. The finer grained variety often showed cherty - weathering patterns.

All of the granodiorite varieties sometime carried magnetite, although this was not a universal feature.

Diorite and quartz diorite were the main mafic rocks observed. Both were characterized by locally abundant magnetite and hornblende, although usually biotite was the predominant mafic mineral. Most of the exposures were of fine to medium grain size, with some coarse-grained phases observed in isolated outcrops.

Intrusive dikes were almost always chilled. Mafic dikes were commonly chloritic, while ophitic and felsite dikes usually had an abundance of magnetite relative to the host rock (usually concentrated in joints).

The "mixed contact zone" of Edwards was continued for this survey. It is representative of outcrops comprised of more than one lithology. The most commonly observed case was a combination of felsic (granodiorite) + mafic (diorite-quartz diorite) intrusives. Where one rock type was more dominant, it will follow the symbol for mixed contact zone; e.g., (9a, b) reflects a mixed contact zone having pink feldspathic, granodiorite as its major component.

STRUCTURE

Several major lineaments transect the area. Some of the cliffs along these lineaments have zones of mylonitization near the base. An interesting feature is that nearly all of the cliffs face in a northerly direction, and most mylonite zones were dipping steeply south to vertical.

Emplacement of gold mineralization appears to be related to zones of dilation or en-echelon-type splay faults near major fault zones.

ECONOMIC GEOLOGY

The purpose of this work was to map and sample 2 gold occurrences found late last year - the "low grade" line

16+00 showing and the "high grade" line 0+00 showing - and to map and sample the grid which was cut this spring to the northwest.

The type of rocks which carry gold in this particular area are fairly easy to recognize. There are 2 types of observed gold-bearing rocks:

1. Pyritic-sericitic-saussuritic alteration.
2. Quartz veins.

Type 1 is almost always characterized by a foliation, oxidation, and sometimes bleaching. The foliation is due to sericitization, and the oxidation is due to pyrite and/or magnetite. There do not appear to be sharp boundaries with respect to alteration. An interesting feature is that the foliation of the rocks usually exhibited a strike of from 080°-120°, and dipped at shallow angles to the south.

Type 2 (quartz veins) usually were emplaced along joint planes, and associated alteration consisted, as before, of sericitization, saussuritization, and some pyritization. Bleaching of the host rock was sometimes evident.

Not all altered outcrops or quartz veins carry gold. Some very intensely altered outcrops, and pyritic quartz veins, were observed during grid mapping which looked very similar to the 2 main gold showings (line 0+00 and line 16+00). However, many of these zones were barren or carried only low gold values.

The Fairservice line 2+00W (Creek Zone) showing was mapped and sampled (see Figure 5-8,10). There are 3 quartz veins, all with subhorizontal altitudes that are traceable along strike length. In addition, there are numerous smaller, vertical veins and veinlets, but these may be joint and fracture fillings related to main vein emplacement. Channel samples were taken across the major veins at intervals, and 5 foot chip samples were taken of the host rock. Although the host rock (granodiorite) was moderately altered, it carried only low gold values. There are flat lying quartz veins to the north that do not carry gold. It is suggested that diamond drilling to the northwest of the prospect might determine the lateral extent of gold bearing veins in that direction.

The line 16+00E showing (Pine Centre) was mapped and sampled (Fig. 1-4). Figure 2 reveals that gold bearing sections may be horizontal or very shallow dipping to the south. Other altered outcrops in that area carried generally low values. It is recommended the diamond drilling is the next step to determine if the values carry at depth.

The VLF-EM alteration zone (line 36+00, 10+00S) was mapped and sampled. The previous assay values (.04 and .13 oz/T) were not duplicated in the detailed resampling, the highest value being 0.01oz/T. However, the presence of a VLF-EM anomaly coincident with alteration means this zone should be tested by diamond drilling.

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The Lucas showing was mapped and sampled, and 8 samples gave values ranging from .005to.05 oz/T (see figure 9). In addition during grid mapping, an outcrop of pyritic diorite to the west returned an assay of 0.11oz/ton. It is suggested that further detailed mapping and sampling be undertaken on completion of the geophysical survey.

An altered zone at the east end of baseline 20+00N returned values to .06 oz/ton (see grid map 6). It is suggested that this zone be tested by diamond drilling.

RECOMMENDATIONS FOR FURTHER WORK

1. The Creek Zone should be tested by diamond drilling to determine the northwest extent of the gold bearing quartz veins, and also to determine if other parallel veins exist at depth.

2. The Pine Centre Zone should be tested by diamond drilling to determine if the alteration zone extends to, and carries gold, at depth.

3. The coincident VLF-EM anomaly and moderate alteration means that this zone too should be tested by drilling.

4. Detailed mapping and sampling of the area west of the Lucas showing should be commenced upon completion of the geophysical surveys.

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5. The altered zone at 20+00N, 32+00E, should be tested by drilling.

per

W.C. Kerr

ASSAY SAMPLES

AMPLE NO.	RESULTS (oz/ton Au)	DESCRIPTION	LOCATION	MAP REFERENCE NO.
A-1	.002	pyritic horizon	4+00E, 1+50N	1980 Grid Map
A-2	.002	pyritic horizon	4+00E, 1+50N	1980 Grid Map
A-3	.13	pyritic quartz diorite	(VLF-EM) 36+00E, 10+00S	11
A-4	.04	quartz vein	(VLF-EM) 36+00E, 10+00S	11
A-5	Nil	quartz vein	4+00E, 1+50N	1980 Grid Map
B-1	Nil	quartz vein	22+00W, 20+00N	Grid Map #06418
B-2	Nil	pyritic zone	17+25W, 20+00N	Grid Map #06418
C-1	.01	alteration zone C	Pine Center 16+00E, 12+00N	Figure #4
C-2	.01	alteration zone C	Pine Center 16+00E, 12+00N	Figure #4
C-3	.002	quartz vein B	Pine Center 16+00E, 12+00N	Figure #4
C-4	.005	quartz vein B	Pine Center 16+00E, 12+00N	Figure #4
C-5	.002	quartz vein B	Pine Center 16+00E, 12+00N	Figure #4
C-6	.005	quartz vein A	Pine Center 16+00E, 12+00N	Figure #4
C-7	Nil	quartz vein A	Pine Center 16+00E, 12+00N	Figure #4
C-8	.01	quartz vein A	Pine Center 16+00E, 12+00N	Figure #4
D-1	.002	quartz vein	16+00E, 15+00N	Figure #3
D-2	.002	quartz vein	16+00E, 15+00N	Figure #3
D-3	Nil	quartz vein	16+00E, 15+00N	Figure #3
D-4	.02	quartz vein	16+00E, 13+00N	Figure #3
D-5	Nil	quartz vein	17+00E, 9+75N	Figure #3
E-1	Trace	quartz vein	17+50E, 11+75N	Figure #3
E-2	Trace	quartz vein	20+25E, 14+75N	Figure #3

SAMPLE NO.	RESULTS (oz/ton Au)	DESCRIPTION	LOCATION	MAP REFERENCE NO.
E-3	Trace	15" quartz vein	09+35E, 20+35N	Grid Map #06418
E-4	Trace	15" quartz vein	09+35E, 20+35N	Grid Map #06418
E-5	Trace	15" quartz vein	09+35E, 20+35N	Grid Map #06418
FA-1	.20	quartz vein A	Creek Zone 2+00W, 26+50N	Figure #5
FA-2	.27	quartz vein A	Creek Zone 2+00W, 26+50N	Figure #5
FA-3	.02	quartz vein A	Creek Zone 2+00W, 26+50N	Figure #5
FA-4	.01	quartz vein A	Creek Zone 2+00W, 26+50N	Figure #5
FA-5	.10	quartz vein A	Creek Zone 2+00W, 26+50N	Figure #5
FA-6	.06	quartz vein A	Creek Zone 2+00W, 26+50N	Figure #5
FA-7	Trace	quartz vein A	Creek Zone 2+00W, 26+50N	Figure #5
FB-1	.23	quartz vein B	Creek Zone 2+00W, 26+50N	Figure #5
FB-2	.04	quartz vein B	Creek Zone 2+00W, 26+50N	Figure #5
FB-3	.11	quartz vein B	Creek Zone 2+00W, 26+50N	Figure #5
FB-4	.03	quartz vein B	Creek Zone 2+00W, 26+50N	Figure #5
FB-5	.09	quartz vein B	Creek Zone 2+00W, 26+50N	Figure #5
FB-6	.07	quartz vein B	Creek Zone 2+00W, 26+50N	Figure #5
FB-7	Trace	quartz vein B	Creek Zone 2+00W, 26+50N	Figure #5
FB-8	.03	quartz vein B	Creek Zone 2+00W, 26+50N	Figure #5
FB-9	.14	quartz vein B	Creek Zone 2+00W, 26+50N	Figure #5

AMPLE NO	RESULTS (oz/ton Au)	DESCRIPTION	LOCATION	MAP REFERENCE NO.
FB-10	.01	quartz vein B	Creek Zone 2+00W, 26+50N	Figure #5
FB-11	.05	quartz vein B	Creek Zone 2+00W, 26+50N	Figure #5
FC-1	.01	quartz vein C	Creek Zone 2+00W, 26+50N	Figure #5
FC-2	.13	quartz vein C	Creek Zone 2+00W, 26+50N	Figure #5
FC-3	.40	quartz vein C	Creek Zone 2+00W, 26+50N	Figure #5
FC-4	Trace	quartz vein	in Creek 2+00W, 26+50N	Figure #5
FC-5	.05	quartz vein	Arcuate Structure Top of Hill 2+00W, 26+50N	Figure #5
FC-6	.13	quartz vein	Arcuate Structure Top of Hill 2+00W, 26+50N	Figure #5
K-1	Trace	quartz vein	0+00, 21+00N	Grid Map #06418
K-2	Trace	quartz vein	2+00E, 29+00N	Grid Map #06418
M-1	.06	altered zone	Pine Center 16+00E, 12+00N	Figure #2
M-2	.07	altered zone	Pine Center 16+00E, 12+00N	Figure #2
M-3	.06	altered zone	Pine Center 16+00E, 12+00N	Figure #2
M-4	Trace	quartz vein	24+00E, 33+00N	Grid Map #06418
M-5	Trace	altered zone	24+00E, 33+00N	Grid Map #06418
2101	.06	altered zone	16+00E, 12+00N	Figure #2
2102	.05	altered zone	16+00E, 12+00N	Figure #2
2103	.07	altered zone	16+00E, 12+00N	Figure #2
2104	.09	altered zone	16+00E, 12+00N	Figure #2
2105	.05	altered zone	16+00E, 12+00N	Figure #2

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SAMPLE NO.	RESULTS (oz/ton Au)	DESCRIPTION	LOCATION	MAP REFERENCE NO.
2106	.06	altered zone	16+00E, 12+00N	Figure #2
2107	.002	altered zone	16+00E, 12+00N	Figure #2
2108	.05	altered zone	16+00E, 12+00N	Figure #2
2109	.08	altered zone	16+00E, 12+00N	Figure #2
2110	.09	altered zone	16+00E, 12+00N	Figure #2
2111	.08	altered zone	16+00E, 12+00N	Figure #2
2112	.06	altered zone	16+00E, 12+00N	Figure #2
2113	.09	altered zone	16+00E, 12+00N	Figure #2
2114	.10	altered zone	16+00E, 12+00N	Figure #2
2115	.07	altered zone	16+00E, 12+00N	Figure #2
2116	.01	altered zone	16+00E, 12+00N	Figure #2
2117	.005	altered zone	16+00E, 12+00N	Figure #2
2118	.02	altered zone	16+00E, 12+00N	Figure #2
2119	.002	altered zone	16+00E, 12+00N	Figure #2
2120	.01	altered zone	16+00E, 12+00N	Figure #2
2121	.01	altered zone	16+00E, 12+00N	Figure #2
2122	.06	altered zone	16+00E, 12+00N	Figure #2
2123	.03	altered zone	16+00E, 12+00N	Figure #2
2124	.01	altered zone	16+00E, 12+00N	Figure #2
2125	.01	altered zone	16+00E, 12+00N	Figure #2
2126	.08	altered zone	16+00E, 12+00N	Figure #2
2127	.06	altered zone	16+00E, 12+00N	Figure #2
2128	.12	altered zone	16+00E, 12+00N	Figure #2
2129	.13	altered zone	16+00E, 12+00N	Figure #2
2130	.14	altered zone	16+00E, 12+00N	Figure #2
2131	.08	altered zone	16+00E, 12+00N	Figure #2

SAMPLE NO.	RESULTS (oz/ton Au)	DESCRIPTION	LOCATION	MAP REFERENCE NO.
2132	.002	altered zone	16+00E, 11+00N	Figure #3
2133	.06	altered zone	15+80E, 13+00N	Figure #3
2134	.02	altered zone	15+60E, 13+00N	Figure #3
2135	.002	altered zone	15+20E, 13+00N	Figure #3
2136	.04	altered zone	14+00E, 12+80N	Figure #3
2137	.002	altered zone	17+00E, 12+50N	Figure #3
2138	.005	altered zone	17+00E, 12+50N	Figure #3
2139	.02	altered zone	17+00E, 12+50N	Figure #3
2140	.04	altered zone	17+00E, 12+50N	Figure #3
2141	.03	altered zone	17+00E, 12+50N	Figure #3
2142	.04	altered zone	17+00E, 12+50N	Figure #3
2143	.01	altered zone	17+00E, 12+50N	Figure #3
2144	.08	altered zone	17+00E, 12+50N	Figure #3
2145	.02	altered zone	17+00E, 12+50N	Figure #3
2146	.01	altered zone	17+00E, 12+50N	Figure #3
2147	.005	altered zone	17+00E, 12+50N	Figure #3
2148	Nil	fresh representative granodiorite	24+00E, 11+50N	1980 Grid Map
2149	.002	lightly altered granodiorite	19+50E, 14+75N	Figure #3
2150	.005	unaltered granodiorite	20+00E, 11+00N	Figure #3
2151	.005	light alteration	16+00E, 14+25N	Figure #3
2152	Nil	light alteration	14+50E, 13+00N	Figure #3
2153	Nil	silicified alteration	11+75E, 15+00N	1980 Grid Map
2154	.02		2+00W, 26+50N	Figure #5
2155	.34		2+00W, 26+50N	Figure #5
2156	.02		2+00W, 26+50N	Figure #5

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SAMPLE NO.	RESULTS (oz/ton Au)	DESCRIPTION	LOCATION	MAP REFERENCE NO.
2157	.04		2+00W, 26+50N	Figure #5
2158	.02		2+00W, 26+50N	Figure #5
2159	.06		2+00W, 26+50N	Figure #5
2160	Nil		2+00W, 26+50N	Figure #5
2161	.005		2+00W, 26+50N	Figure #5
2162	.03		2+00W, 26+50N	Figure #5
2163	.01		2+00W, 26+50N	Figure #5
2164	.01		2+00W, 26+50N	Figure #5
2165	.002		2+00W, 26+50N	Figure #5
2166	.01		2+00W, 26+50N	Figure #5
2167	.005		2+00W, 26+50N	Figure #5
2168	.02		2+00W, 26+50N	Figure #5
2169	.005		2+00W, 26+50N	Figure #5
2170	.002		2+00W, 26+50N	Figure #5
2171	.02		2+00W, 26+50N	Figure #5
2172	.02		2+00W, 26+50N	Figure #5
2173	.02		2+00W, 26+50N	Figure #5
2174	.02		2+00W, 26+50N	Figure #5
2175	.02		2+00W, 26+50N	Figure #5
2176	.06		2+00W, 26+50N	Figure #5
2177	.02		2+00W, 26+50N	Figure #5
2178	.005		2+00W, 26+50N	Figure #5
2179	Nil		2+00W, 26+59N	Figure #5
2180	.03		2+00W, 26+50N	Figure #5
2181	Nil		2+00W, 26+50N	Figure #5
2182	Nil		2+00W, 26+50N	Figure #5
2183	.005		2+00W, 26+50N	Figure #5

AMPLE NO.	RESULTS (oz/ton Au)	DESCRIPTION	LOCATION	MAP REFERENCE NO.
2184	Nil	chip sample (5ft.)	2+00W, 26+50N	Figure #5
2185	Nil	chip sample (5ft.)	2+00W, 26+50N	Figure #5
2186	.005	chip sample (5ft.)	2+00W, 26+50N	Figure #5
2187	.005	chip sample (5ft.)	2+00W, 26+50N	Figure #10
2188	Nil	minor saussurite, pyritized, diorite	2+00W, 26+50N	Figure #10
2189	Nil	Falls outcrop lightly altered	2+00W, 26+50N	Figure #10
2190	Nil	pyritic, blue quartz	2+00W, 26+50N	Figure #10
2191	.005	(silicic-sericite, saussurite) minor (blue quartz)	2+00W, 26+50N	Figure #10
2192	Nil	massive granodiorite (white quartz)	2+00W, 26+50N	Figure #10
2193	Nil	massive granodiorite	2+00W, 26+50N	Figure #10
2194	.01	grab sample of quartz vein	2+00W, 26+50N	Figure #10
2195	Nil	massive granodiorite	2+00W, 26+50N	Figure #10
2196	.02	Lucas showing	4+00W, 35+60N	Figure #9
2197	.02	Lucas showing	4+00W, 35+60N	Figure #9
2198	.05	Lucas showing	4+00W, 35+60N	Figure #9
2199	.02	Lucas showing	4+00W, 35+60N	Figure #9
2200	.01	Lucas showing	4+00W, 35+60N	Figure #9
2201	.005	Lucas showing	4+00W, 35+60N	Figure #9
2202	.04	Lucas showing	4+00W, 35+60N	Figure #9
2203	.01	Lucas showing	4+00W, 35+60N	Figure #9
2204	.01	(5ft. chip) altered granodiorite	32+00E, 21+00N	Grid Map #06418
2205	.05	(5ft. chip) altered granodiorite	32+00E, 21+00N	Grid Map #06418
2206	Nil	(5ft. chip) altered granodiorite	32+00E, 21+00N	Grid Map #06418

SAMPLE NO.	RESULTS (oz/ton Au)	DESCRIPTION	LOCATION	MAP REFERENCE NO.
2207	.002	(5ft. chip) altered granodiorite	21+00E, 31+50N	Grid Map #06418
2208	.005	(5ft. chip) altered granodiorite	21+00E, 31+50N	Grid Map #06418
2209	.002	quartz vein (8'chip)	10+00E, 24+00N	Grid Map #06418
2210	Nil	altered zone (8'chip)	2+00E, 20+00N	Grid Map #06418
2211	Nil	quartz vein	0+00 , 33+20N	Grid Map #06418
2212	Nil	alteration zone	36+00W, 28+50N	Grid Map #06418
2213	.11	altered diorite	6+00W, 39+50N	Grid Map #06418
2214	Nil	10" wide quartz vein	7+00W, 20+20N	Grid Map #06418
2215	.002	quartz vein	8+00W, 21+00N	Grid Map #06418
2216	.005	6" quartz vein in diorite	16+00W, 22+00N	Grid Map #06418
2217	Nil	8 to 24" quartz vein (bottom)	20+00W, 23+00N	Grid Map #06418
2218	Nil	8 to 24" quartz vein (top)	20+00W, 23+00N	Grid Map #06418
2219	Nil	quartz vein in shear zone	4+00W, 12+00N	Grid Map #06418
2220	Nil	quartz vein in light altered green G.D.	16+00W, 3+00N	Grid Map #06418
2221	Nil	1-2" quartz vein	20+00W, 20+00N	Grid Map #06418
2222	Nil	altered granodiorite	28+00W, 11+60N	Grid Map #06418
2223	.002	boulder; cherty chilled granodiorite	32+00W, 12+00N	Grid Map #06418
2224	.002	(10' chip) VLF-EM outcrop	36+00E, 10+00S	Figure #11
2225	.005	(10' chip) VLF-EM outcrop	36+00E, 10+00S	Figure #11
2226	.01	(10' chip) VLF-EM outcrop	36+00E, 10+00S	Figure #11
2227	.01	(10' chip) VLF-EM outcrop	36+00E, 10+00S	Figure #11

SAMPLE NO.	RESULTS (oz/ton Au)	DESCRIPTION	LOCATION	MAP REFERENCE NO.
2228	.005	(10' chip) VLF-EM outcrop	36+00E, 10+00S	Figure #11
2229	.01	(10' chip) VLF-EM outcrop	36+00E, 10+00S	Figure #11
2230	.002	(10' chip) VLF-EM outcrop	36+00E, 10+00S	Figure #11
2231	Nil	(10' chip) VLF-EM outcrop	36+00E, 10+00S	Figure #11
2232	Nil	(10' chip) VLF-EM outcrop	36+00E, 10+00S	Figure #11
2233	.002	(5' chip) VLF-EM extension	34+00E, 10+00S	Figure #11
2234	.002	(5' chip) VLF-EM extension	34+00E, 10+00S	Figure #11
2235	.005	(5' chip) VLF-EM extension	34+00E, 10+00S	Figure #11
2236	.002	(5' chip) lightly altered G.D.	35+00E, 10+50S	Figure #11
2237	.002	(5' chip) lightly altered G.D.	36+10E, 11+20S	Figure #11
2238	Nil	representative sample unaltered G.D.	40+00E, 7+50S	Figure #11
2239	Nil	lightly altered granodiorite (5'chip)	40+00E, 18+00S	Figure #11
2240	.01	(grab) 3" quartz vein	40+00E, 18+00S	Figure #11
2241	.005	altered granodiorite	44+00E, 13+00S	Figure #11
2242	Nil	representative sample: diorite	44+00E, 21+00S	Figure #11
2243	Nil	representative sample altered granodiorite	44+00E, 21+00S	Figure #11
2244	Nil	lightly altered granodiorite	48+00E, 20+50S	Figure #11
2245	Nil	lightly altered granodiorite	48+00E, 25+00S	Figure #11

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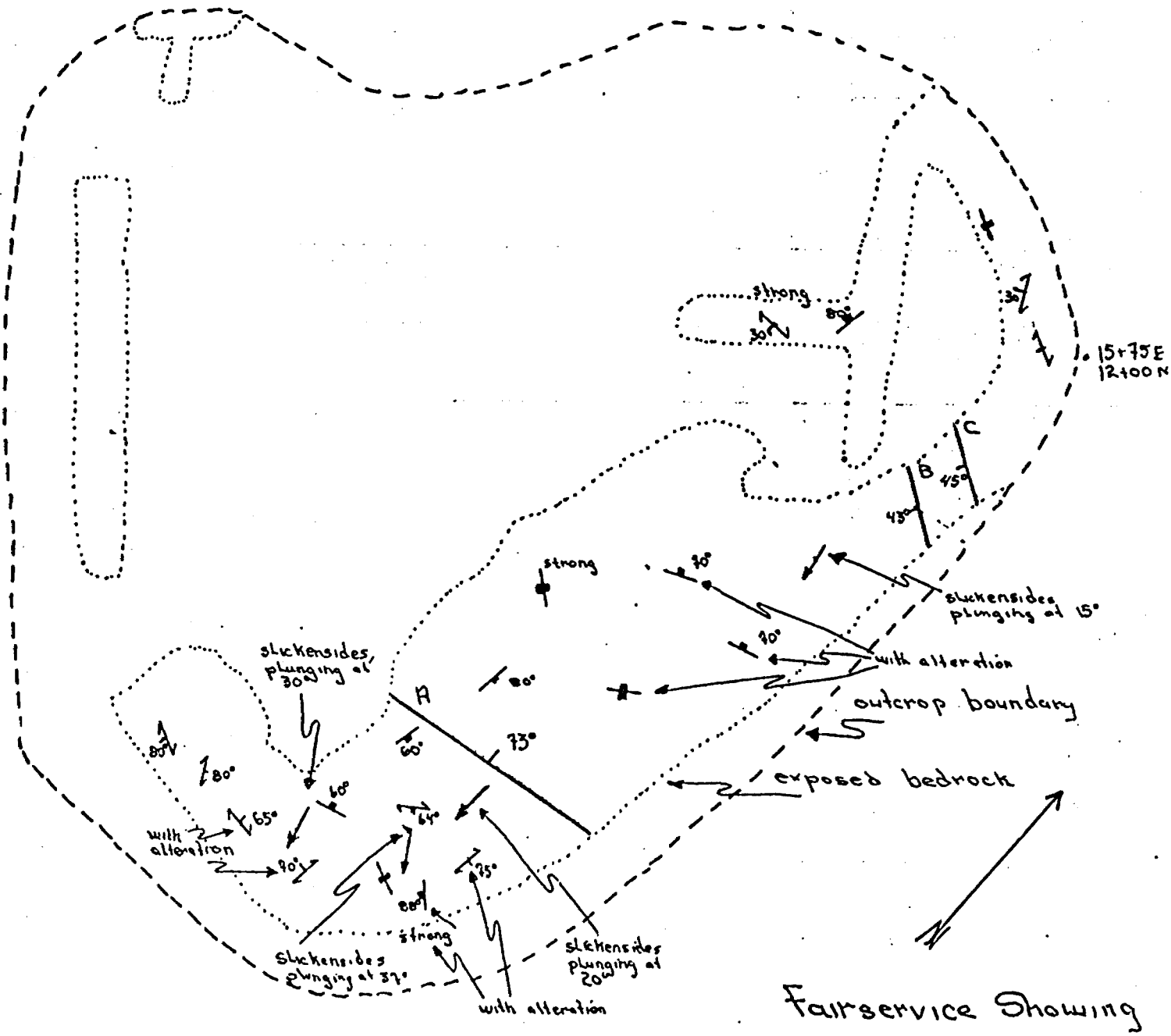
AMPLE NO.	RESULTS (oz/ton Au)	DESCRIPTION	LOCATION	MAP REFERENCE NO.
2246	.002	(5' chip) 8" quartz vein	60+00E, 25+00S	Figure #11
2247	Nil	boulder near quartz vein (grab)	36+00E, 16+10N	1980 Grid
2248	Nil	1ft. wide quartz vein	39+60E, 0+00	1980 Grid
2249	Nil	massive, bleb-like quartz	44+00W, 21+00N	Grid Map #06418
2250	Nil	(5' chip) alteration zone	44+00W, 21+00N	Grid Map #06418
2251	Nil	pyritic siliceous zone from trench	next to line-cutters camp	Grid Map #06418
2252	Nil	(5' chip) pyritic alteration	33+00W, 13+00N	Grid Map #06418
2253	Nil	strong, sericite, sausserite (5'chip)	16+00W, 33+00N	Grid Map #06418
2254	Nil	strong, sericite, sausserite (5'chip)	16+00W, 33+00N	Grid Map #06418
2255	Nil	lightly altered granodiorite	7+50E, 15+70N	1980 Grid Map
2256	.003	light alteration	16+00E, 14+00N	1980 Grid Map
2257	Nil	pyrite quartz diorite	36+00W, 9+50N	Grid Map #06418
2258	Nil	pyrite quartz diorite	36+00W, 9+40N	Grid Map #06418
2259	Nil	pyrite zone	36+00W, 10+50N	Grid Map #06418
2260	Nil	pyrite mixed contact zone	36+00W, 14+00N	Grid Map #06418
2261	Nil	pyrite diorite	40+00W, 14+00N	Grid Map #06418
2262	Nil	pyrite diorite	40+00W, 13+00N	Grid Map #06418
2263	Nil	pyrite from old trench	40+00W, 10+00N	Grid Map #06418
2264	Nil	pyrite in cherty granodiorite	40+00W, 8+00N	Grid Map #06418

SAMPLE NO.	RESULTS (oz/ton Au)	DESCRIPTION	LOCATION	MAP REFERENCE NO.
2265	Trace	2" quartz vein	12+00W, 84+00N	Grid Map #06418
2266	.03	pyrite zone in granodiorite	16+00W, 48+00N	Grid Map #06418
2267	.02	pyrite quartz vein in diorite	20+00W, 89+00N	Grid Map #06418
2268	Trace	disseminated pyrite in white granodiorite	24+00W, 62+00N	Grid Map #06418
2269	Trace	fine grained siliceous G.D. with pyrite	24+00W, 84+00N	Grid Map #06418
2270	Trace	mylonite zone	28+00W, 67+50N	Grid Map #06418
2271	Trace	mylonite zone	28+00W, 52+50N	Grid Map #06418
2272	Trace	altered zone	28+00W, 70+00N	Grid Map #06418
2273	Trace	pyrite milonite zone	36+00W, 49+50N	Grid Map #06418
2274	.04	pyrite, sericitic alteration	8+00E, 20+00N	Grid Map #06418
2275	Trace	quartz vein	23+00E, 20+00N	Grid Map #06418
2276	Trace	altered zone below quartz vein	23+00E, 20+00N	Grid Map #06418
2277	Trace	altered zone: north	23+00E, 20+00N	Grid Map #06418
2278	Trace	quartz vein	25+00E, 20+00N	Grid Map #06418
2279	Trace	altered zone	25+00E, 20+00N	Grid Map #06418
2280	.04	mylonite zone	31+00E, 20+20N	Grid Map #06418
2281	Trace	unaltered granodiorite	31+00E, 20+20N	Grid Map #06418
2282	Trace	altered zone	32+00E, 17+80N	1980 Grid Map
2283	.01	pyrite in granodiorite	32+00E, 17+80N	1980 Grid Map
2284	.06	alteration zone (top)	32+00E, 17+80N	1980 Grid Map
2285	Trace	pyrite in granodiorite	27+00W, 27+00N	Grid Map #06418
2286	Trace	Pine Center alteration	17+60E, 14+30N	Figure #3

SAMPLE NO.	RESULTS (oz/ton Au)	DESCRIPTION	LOCATION	MAP REFERENCE NO.
2287	Trace	Pine Center alteration	17+00E, 14+00N	Figure #3
2288	Trace	Pine Center alteration	17+50E, 13+00N	Figure #3
2289	Trace	Pine Center alteration	17+50E, 13+00N	Figure #3
2290	Trace	sericite-mylonite zone, east baseline altered zone	30+00E, 21+60N	Grid Map #06418
2291	Trace	pyrite-sausserite granodiorite	30+50E, 21+40N	Grid Map #06418
2292	Trace	quartz vein and pyritic host rock altered (5' chip)	30+80E, 21+60N	Grid Map #06418
2293	Trace	rubbly outcrop	32+00E, 19+60N	1980 Grid Map
2294	Trace		Bluff Point Lake	
2295	.02		Bluff Point Lake	
2296	Trace		Bluff Point Lake	



Joints

Foliation, possibly joints

Fairservice Showing

Line 1600 E

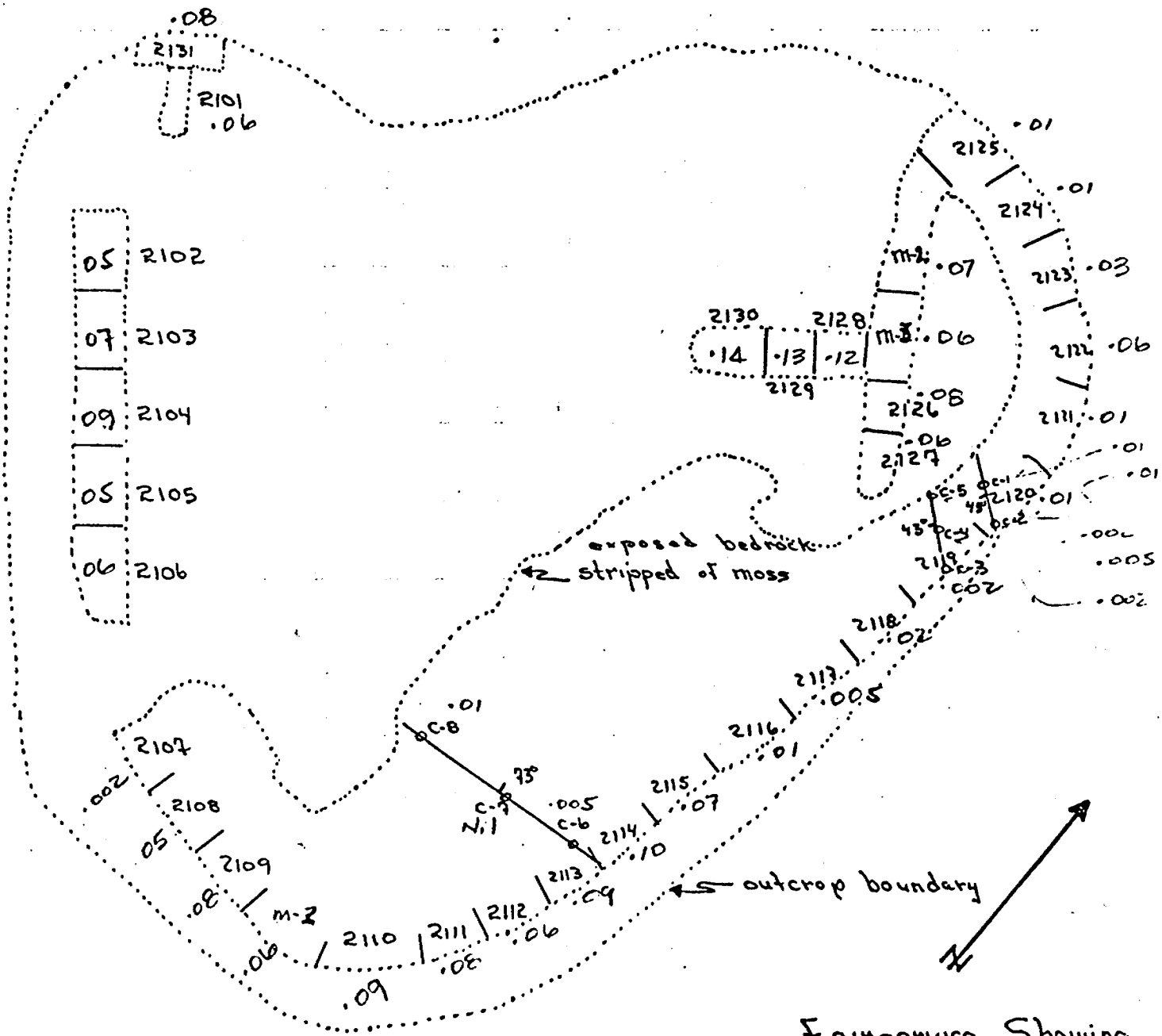
Geology

Plan View

Scale: 1" = 10'

Date: May 26, 1981

Figure 1



Au 0.06

Fairservice Showing -
Line 1600 E
Location of Samples
for Assay - m-1 - m-3
- 2101 - 2131
- C-1 - C-8

Scale: 1" = 10'
Date: May 24, 1981

Figure 2

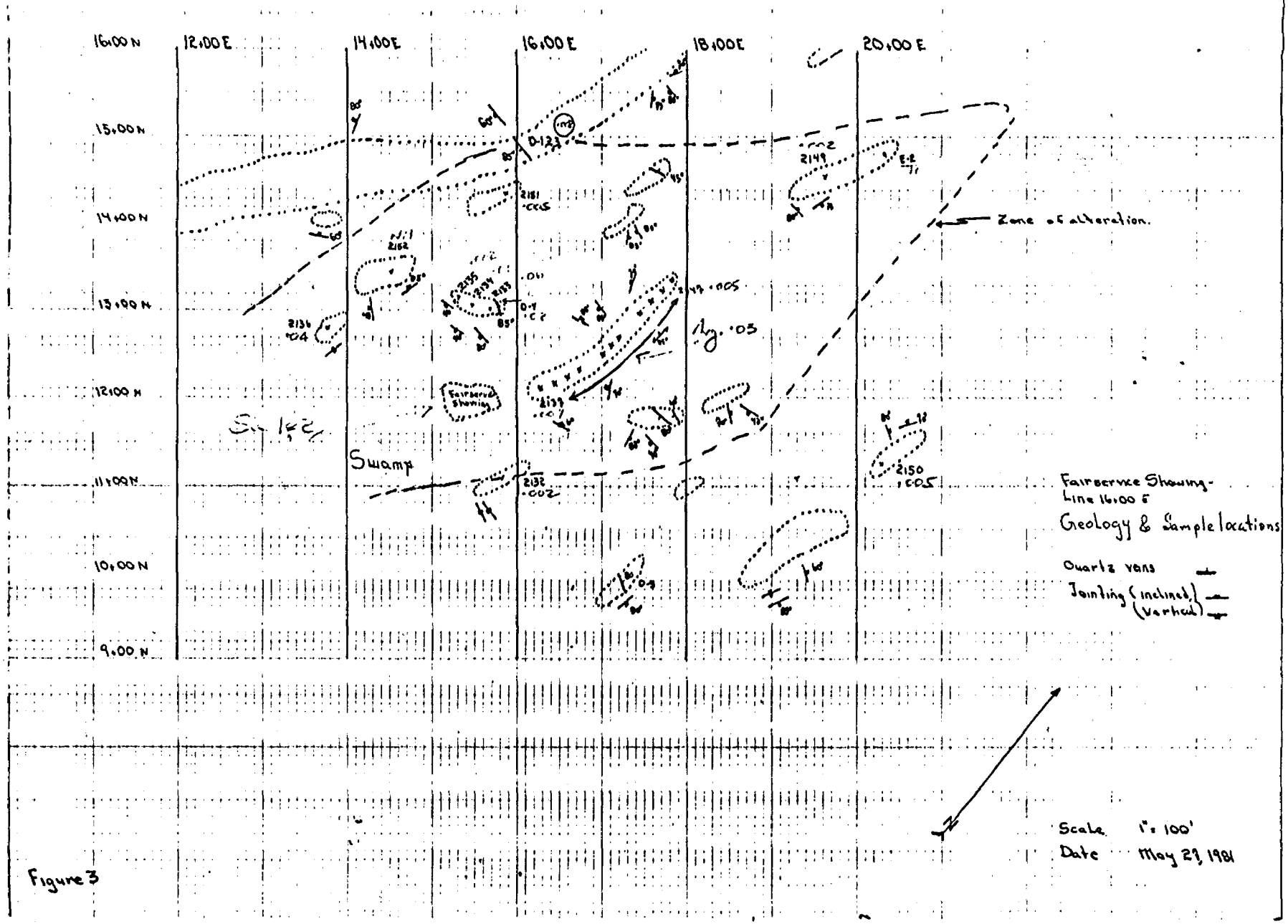
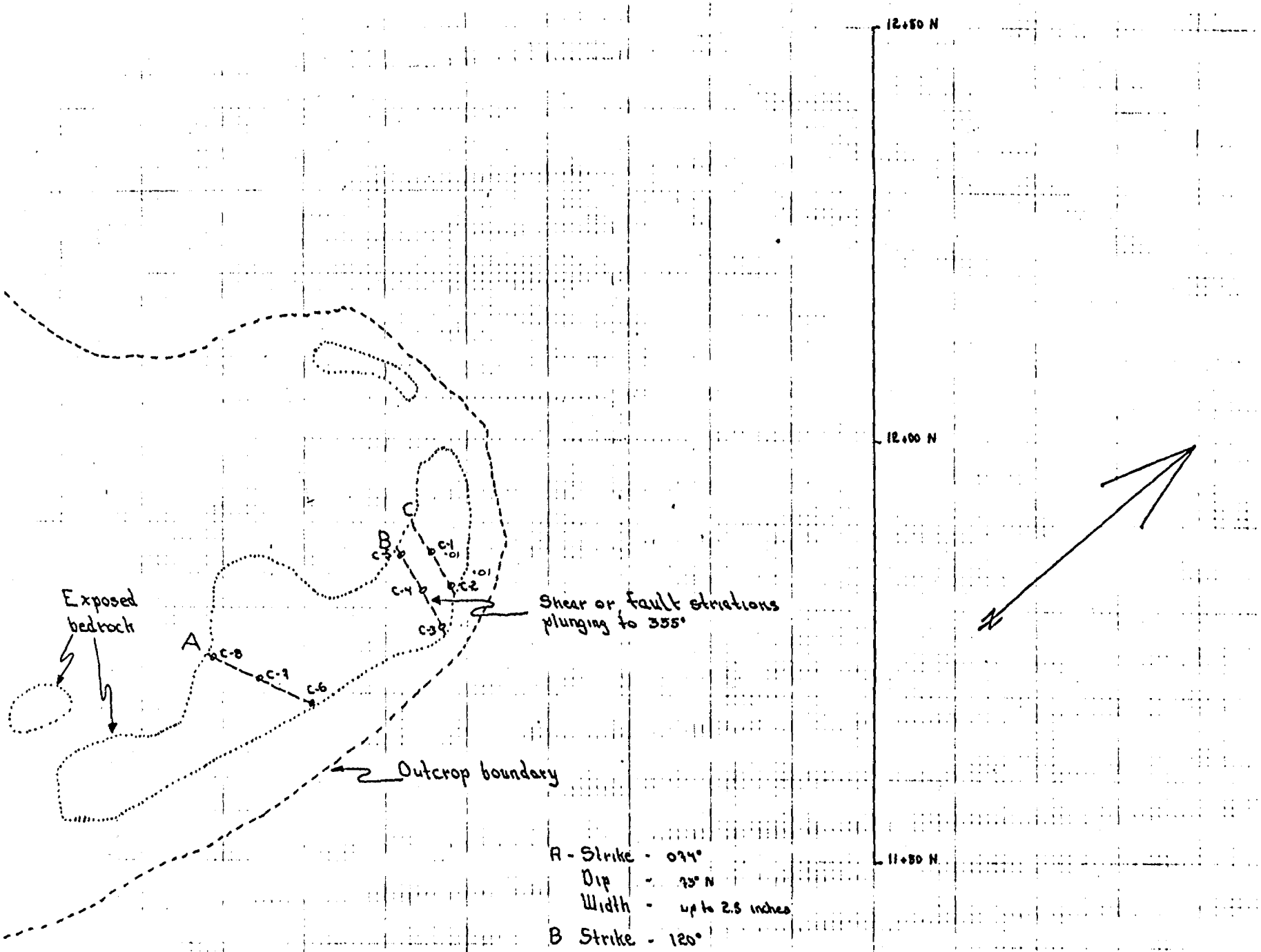
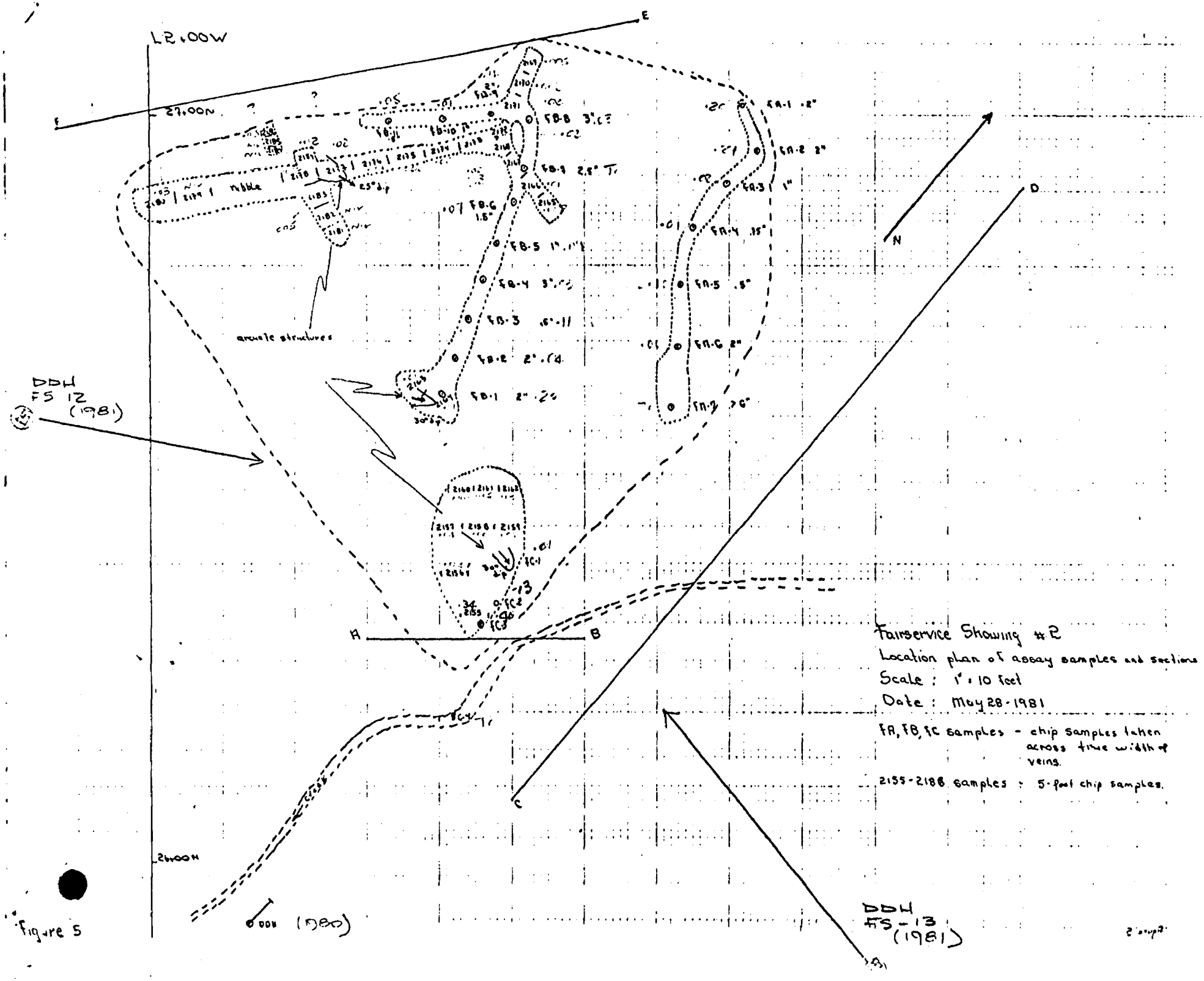

16,00 N
12,00 E
14,00 E
16,00 E
18,00 E
20,00 E
15,00 N
14,00 N
13,00 N
12,00 N
11,00 N
10,00 N
9,00 N
Zone of alteration.
Swamp
Fairservice Showing
Fairservice Showing-
Line 16.00 E
Geology & Sample locations
Quartz vans
Jointing (inclined)
(vertical)
Scale 1" = 100'
Date May 29, 1981

Figure 3



Fairservice Showing - Line 1600 E
Scale 1" = 10 feet

Figure 4



Fairservice Showing #2

Location plan of assay samples and sections

Scale : 1" = 10 feet

Date : May 28-1981

FA, FB, FC samples - chip samples taken across true width of veins.

2155-2188 samples : 5-foot chip samples.

Figure 5

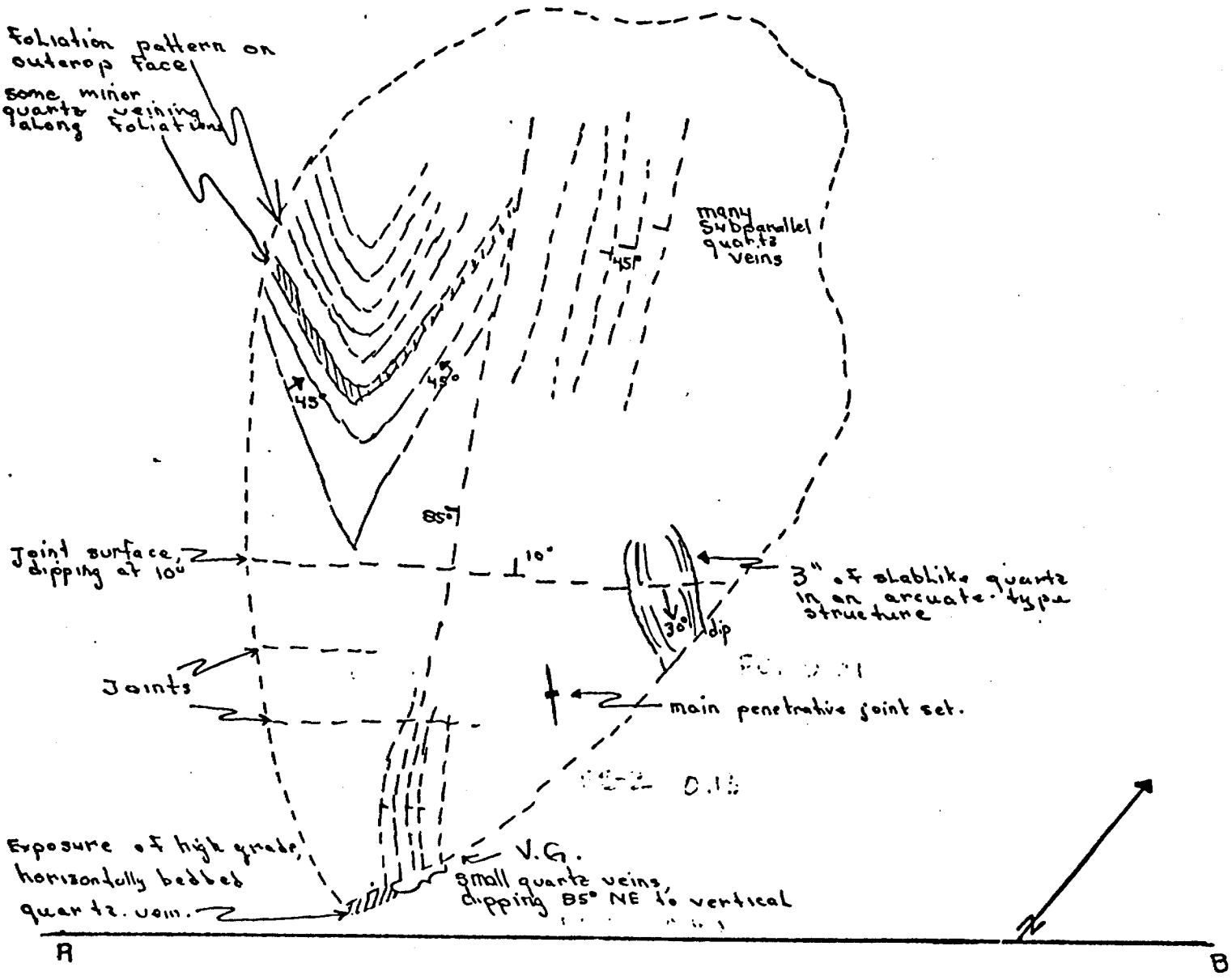


Figure 6

Fairservice Showing 2.
Section A-B
Scale: 1"=2' (approx)
Date: May 28, 1981

Surface plan of outcrop face.

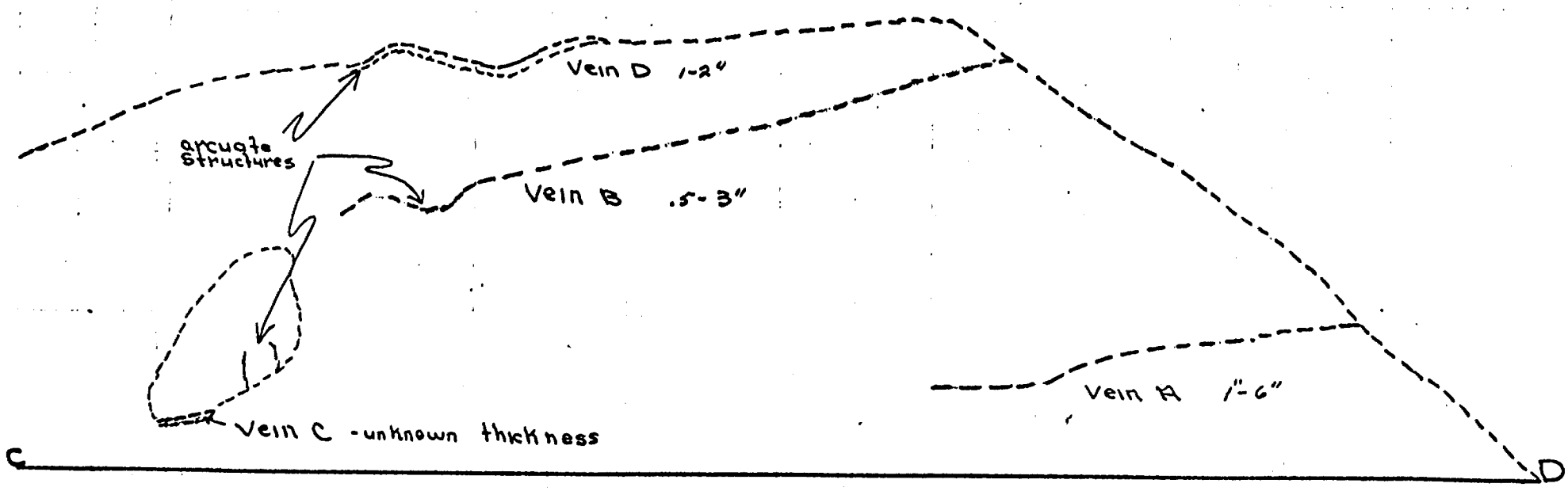


Figure 8

Fairservice Showing 2
Section C-D
Scale 1"=10' (approx)
Date: May 28, 1981
Looking toward 270°

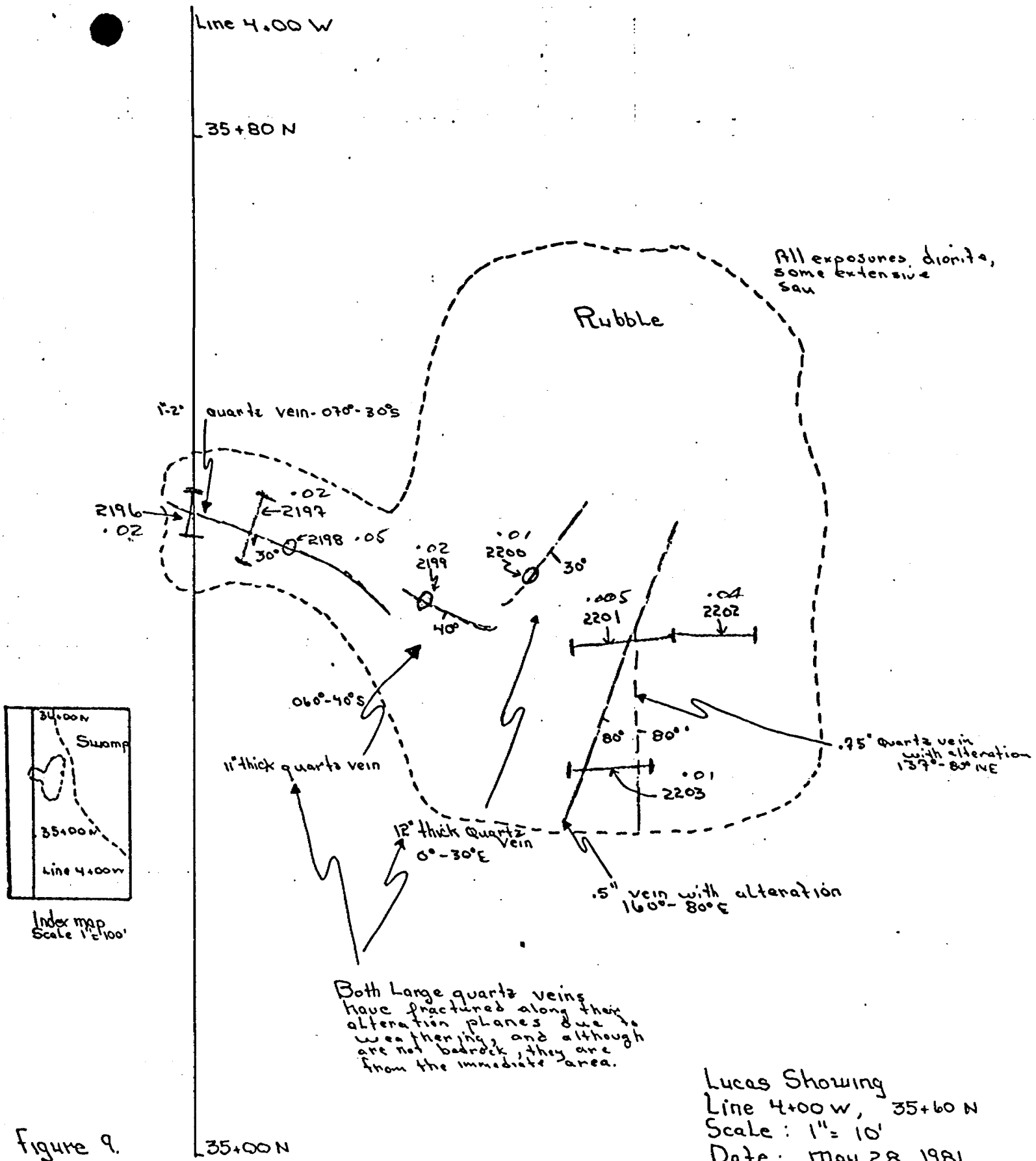
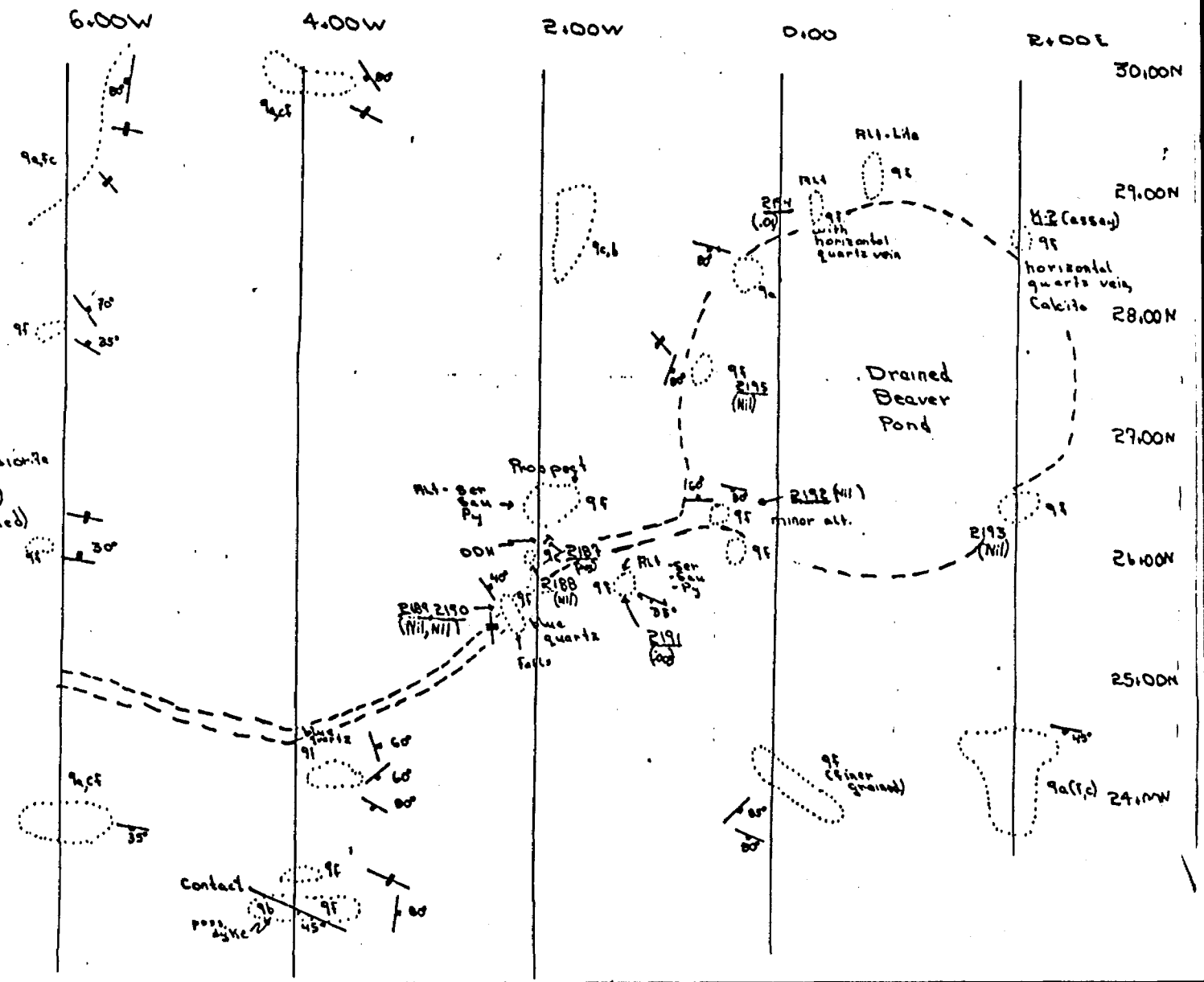


Figure 9.

Lucas Showing
Line 4+00 W, 35+60 N
Scale: 1" = 10'
Date: May 28, 1981

5 foot chip samples
grab samples from veins

Fairservice Option
Number 2 Showing
Detail Mapping and
Assay Locations
Date: June 18, 1981
Scale: 1" = 100'



Legend

Lawrence Lake Batholith

- 9a Mixed contact phase
- 9b Biotite hornblende diorite
- 9c Biotite hornblende quartz diorite
- 9f Tronjhemite
- Joints (vertical, inclined)
- Foliation (vertical, inclined)
- RERY Assay sample
- Alt. Alteration
- Py Pyritization
- Ser Sericitization
- Sau Sausseritization
- Mag Magnetite

Map 10.

FWM

Ministry of Natural Resources
Ontario

Report of Work
(Geophysical, Geological, Geochemical and Expenditures)

W8201-129

The Mi

52F03NW0031 2.5244 BLUFFPOINT LAKE

900

Type of Survey(s)	Township or Area
GEOLOGICAL	BLUFF POINT LAKE M2471

Claim Holder(s)	Prospector's Licence No.
NORANDA EXPLORATION COMPANY, LIMITED	A34387

Address: BOX 2656, THUNDER BAY, ONT.P7B 5G2

Survey Company	Date of Survey (from & to)	Total Miles of line Cut
SELCO INC.	Day MAY Mo. 80 Yr. — Day JUNE Mo. 81 Yr.	

Name and Address of Author (of Geo-Technical report): R.T. LUCAS, W.C. KERR, 1173 ROLAND ST., THUNDER BAY, ONT.

Credits Requested per Each Claim in Columns at right

Special Provisions		Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	Geophysical - Electromagnetic	
	Geophysical - Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	Geophysical - Radiometric	
	Geophysical - Other	
	Geological	20
	Geochemical	

Man Days		Days per Claim
Complete reverse side and enter total(s) here	Geophysical - Electromagnetic	
	Geophysical - Magnetometer	
	Geophysical - Radiometric	
	Geophysical - Other	
	Geological	
	Geochemical	

Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

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MINING LANDS SECTION

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
K	486956	20
	486957	20
	486958	20
	486959	20
	486960	20
	486961	20
	486962	20
	486963	20
	486964	20
	486965	20
	486966	20
	486967	20
	486968	20
	486969	20
	486970	20
	486971	20
	C	
	486976	20
	486989	20
	486990	20
	486991	20
	486992	20

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
K	486993	20
	486994	20
	486995	20
	C	
	486997	20
	533115	20
	533116	20
	533117	20
	533118	20
	533182	20
	533183	20
	533184	20
	533185	20
	533186	20
	533187	20
	533188	20
	533189	20
	533190	20
	533191	20

Expenditures (excludes power stripping)

Type of Work Performed	
Performed on Claim(s)	
Calculation of Expenditure Days Credits	Total Expenditures $ ÷ 15 = Total Days Credits

KENORA MINING DIV. OCT 12 1982 PM

Instructions: Total Days Credits may be apportibned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Total number of mining claims covered by this report of work: 39

486956

For Office Use Only		
Total Days Cr. Recorded 780	Date Recorded Oct 12/82	Mining Recorder
	Date Approved as Recorded 83.07.12	Branch Director

Date	Recorded Holder or Agent (Signature)
OCT. 9, 1982	Paul Nielson

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying: PAUL NIELSON, BOX 2656, THUNDER BAY, ONT. P7B 5G2

Date Certified	Certified by (Signature)
OCT. 9,1982	Paul Nielson

1362 (81/9)

Ministry of Natural Resources
Ontario

Report of Work
(Geophysical, Geological, Geochemical and Expenditures)

The Mining Act

#130

2.5244

W8201-130

Instructions: – Please type or print.
– If number of mining claims traversed exceeds space on this form, attach a list.
Note: – Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
– Do not use shaded areas below.

Type of Survey(s)	Township or Area
GEOLOGICAL	BLUFF POINT LAKE M2471

Claim Holder(s)	Prospector's Licence No.
NORANDA EXPLORATION COMPANY, LIMITED	A 34387

Address: BOX 2656, THUNDER BAY, ONT.

2.52444

Survey Company	Date of Survey (from & to)	Total Miles of line Cut
SELCO INC.	Day MAY Mo. 80 Yr. / Day JUNE Mo. 81 Yr.	1.01

Name and Address of Author (of Geo-Technical report)
R.T. LUCAS, W.C. KERR, 1173 ROLAND ST., THUNDER BAY, ONT.

Credits Requested per Each Claim in Columns at right

Special Provisions		Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	Geophysical	
	- Electromagnetic	
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	40
	Geochemical	

Man Days		Days per Claim
Complete reverse side and enter total(s) here	Geophysical	
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
K	486972	40
	486973	40
	486974	40
	486975	40
	486996	40

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OCT 15 1982
MINING LANDS SECTION

KENORA MINING DIV.
RECEIVED
OCT 12 1982
AM 7 8 9 10 11 12 1 2 3 4 5 6 PM

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures $ ÷ 15 = Total Days Credits

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

486956

Total number of mining claims covered by this report of work: 5

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
200	Oct. 12/82	
	Date Approved as Recorded	Branch Director
	July 22/83	

Date	Recorded Holder or Agent (Signature)
OCT. 9, 1982	

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying
PAUL NIELSON
BOX 2656, THUNDER BAY, ONT. P7B 5G2

Date Certified: Oct. 9, 1982

Certified by (Signature)

1362 (81/9)

Ontario

Ministry of Natural Resources

File _____

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) GEOLOGICAL

Township or Area Bluff Point Lake M2471

Claim Holder(s) Noranda Exploration Company, Limited
Suite 400-55 Yonge Street, Toronto M5E 1J4

Survey Company Noranda Exploration Company, Limited

Author of Report R.T.Lucas and W.C.Kerr

Address of Author 1173 Roland St., Thunder Bay, Ontario

Covering Dates of Survey January/80 to June/81
(linecutting to office)

Total Miles of Line Cut 1.01

SPECIAL PROVISIONS CREDITS REQUESTED

ENTER 40 days (includes line cutting) for first survey.

ENTER 20 days for each additional survey using same grid.

	DAYS per claim
Geophysical	
–Electromagnetic	
–Magnetometer	
–Radiometric	
–Other	
Geological	40
Geochemical	

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: Nov. 9/82 SIGNATURE: Paul Lucas
Author of Report or Agent

Res. Geol. _____ Qualifications _____

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED
List numerically

(prefix)	(number)
K	486972
	486973
	486974
	486975
	486996

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MINING LANDS SECTION

If space insufficient, attach list

TOTAL CLAIMS 5

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS -- If more than one survey, specify data for each type of survey

Number of Stations _____ Number of Readings _____

Station interval _____ Line spacing _____

Profile scale _____

Contour interval _____

MAGNETIC

Instrument _____

Accuracy -- Scale constant _____

Diurnal correction method _____

Base Station check-in interval (hours) _____

Base Station location and value _____

_____

ELECTROMAGNETIC

Instrument _____

Coil configuration _____

Coil separation _____

Accuracy _____

Method: ☐ Fixed transmitter ☐ Shoot back ☐ In line ☐ Parallel line

Frequency _____
(specify V.L.F. station)

Parameters measured _____

GRAVITY

Instrument _____

Scale constant _____

Corrections made _____

_____

Base station value and location _____

_____

Elevation accuracy _____

INDUCED POLARIZATION
RESISTIVITY

Instrument _____

Method ☐ Time Domain ☐ Frequency Domain

Parameters -- On time _____ Frequency _____

-- Off time _____ Range _____

-- Delay time _____

-- Integration time _____

Power _____

Electrode array _____

Electrode spacing _____

Type of electrode _____

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

_____

Corrections made _____

_____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____

(type, depth -- include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

_____

Additional information (for understanding results) _____

_____

_____

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____

(specify for each type of survey)

Accuracy _____

(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

_____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken _____

_____

_____

Total Number of Samples _____

Type of Sample _____
(Nature of Material)

Average Sample Weight _____

Method of Collection _____

_____

Soil Horizon Sampled _____

Horizon Development _____

Sample Depth _____

Terrain _____

_____

Drainage Development _____

Estimated Range of Overburden Thickness _____

_____

_____

SAMPLE PREPARATION
(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

_____

_____

_____

General _____

_____

_____

_____

_____

_____

_____

_____

_____

_____

ANALYTICAL METHODS

Values expressed in: per cent ☐
p. p. m. ☐
p. p. b. ☐

Cu, Pb, Zn, Ni, Co, Ag, Mo, As,-(circle)

Others _____

Field Analysis (_____ tests)
- Extraction Method _____
- Analytical Method _____
- Reagents Used _____

Field Laboratory Analysis
- No. (_____ tests)
- Extraction Method _____
- Analytical Method _____
- Reagents Used _____

Commercial Laboratory (_____ tests)
- Name of Laboratory _____
- Extraction Method _____
- Analytical Method _____
- Reagents Used _____

General _____

_____

_____

_____

_____

_____

_____

_____

_____

_____

Ontario

Ministry of Natural Resources

File _____

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) GEOLOGICAL

Township or Area Bluff Point Lake M2471

Claim Holder(s) Noranda Exploration Company, Limited
Suite 400-55 Yonge St., Toronto M5E 1J4

Survey Company Selco Inc.

Author of Report R.T. Lucas and W. C. Kerr

Address of Author 1173 Roland St., Thunder Bay, Ontario

Covering Dates of Survey May/80 to June/81
(linecutting to office)

Total Miles of Line Cut _____

SPECIAL PROVISIONS CREDITS REQUESTED		DAYS per claim
ENTER 40 days (includes line cutting) for first survey.	Geophysical	
	–Electromagnetic	
	–Magnetometer	
	–Radiometric	
ENTER 20 days for each additional survey using same grid.	–Other	
	Geological	20
	Geochemical	

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: Nov. 9/82 SIGNATURE: Paul Lucas
Author of Report or Agent

Res. Geol. _____ Qualifications _____

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED
List numerically

(prefix)	(number)
K	486956
	486957
	486958
	486959
	486960
	486961
	486962
	486963
	486964
	486965
	486966
	486967
	486968
	486969
	486970
	486971
	486976
	486989
	486990
	486991
	486992
	486993
	486994
	486995
	486997
	533115
	533116
	533117
	533118
	533182
	533183
	533184
	533185
	533186
	533187
	533188
	533189
	533190
	533191

TOTAL CLAIMS 39

If space insufficient, attach list

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MINING LANDS SECTION

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837 (5/79)

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS – If more than one survey, specify data for each type of survey

Number of Stations _____ Number of Readings _____

Station interval _____ Line spacing _____

Profile scale _____

Contour interval _____

MAGNETIC

Instrument _____

Accuracy – Scale constant _____

Diurnal correction method _____

Base Station check-in interval (hours) _____

Base Station location and value _____

_____

ELECTROMAGNETIC

Instrument _____

Coil configuration _____

Coil separation _____

Accuracy _____

Method: ☐ Fixed transmitter ☐ Shoot back ☐ In line ☐ Parallel line

Frequency _____
(specify V.L.F. station)

Parameters measured _____

GRAVITY

Instrument _____

Scale constant _____

Corrections made _____

_____

Base station value and location _____

_____

Elevation accuracy _____

INDUCED POLARIZATION
RESISTIVITY

Instrument _____

Method ☐ Time Domain ☐ Frequency Domain

Parameters – On time _____ Frequency _____

– Off time _____ Range _____

– Delay time _____

– Integration time _____

Power _____

Electrode array _____

Electrode spacing _____

Type of electrode _____

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

_____

Corrections made _____

_____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____

(type, depth -- include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

_____

Additional information (for understanding results) _____

_____

_____

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____

(specify for each type of survey)

Accuracy _____

(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

_____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken_____

Total Number of Samples_____

Type of Sample_____
(Nature of Material)

Average Sample Weight_____

Method of Collection_____

Soil Horizon Sampled_____

Horizon Development_____

Sample Depth_____

Terrain_____

Drainage Development_____

Estimated Range of Overburden Thickness_____

SAMPLE PREPARATION
(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis_____

General_____

ANALYTICAL METHODS

Values expressed in: per cent ☐
p. p. m. ☐
p. p. b. ☐

Cu, Pb, Zn, Ni, Co, Ag, Mo, As,-(circle)

Others_____

Field Analysis (_____tests)
Extraction Method_____
Analytical Method_____
Reagents Used_____

Field Laboratory Analysis
No. (_____tests)
Extraction Method_____
Analytical Method_____
Reagents Used_____

Commercial Laboratory (_____tests)
Name of Laboratory_____
Extraction Method_____
Analytical Method_____
Reagents Used_____

General_____

May 27, 1983 2.5244

Noranda Exploration Company Limited
Box 2656,
Thunder Bay, Ontario
P7B 5G2

Attention: Mr. J. Tomchick

RE: Geological Survey submitted on Mining Claims K486956 et al in the area of Bluff Point Lake

---

We are endeavouring to compile a list of qualification of those persons who sign reports and maps of geotechnical surveys submitted to this Ministry for assessment work credits. It would be appreciated therefore, if you would please furnish brief resumes of the qualifications of Mr. T.T. Lucas, Mr. W.C. Kerr and Mr. Paul Neilson.

Enclosed is a copy titled "Qualifications of Author of Geotechnical Survey report submitted for assessment work credits" for your reference.

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1380

R. Pitchette:mc
Encls.

cc: Mining Recorder
Kenora, Ontario

129, 130

1982 12 29

2.5244

Mining Recorder
Ministry of Natural Resources
808 Robertson Street
Box 5160
Kenora, Ontario
P9N 3X9

Dear Sir:

We have received reports and maps for a Geological Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims K 486956 et al in the area of Bluff Point Lake.

This material will be examined and assessed and a statement of assessment work credits will be issued.

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1380

DW:sc

cc: Noranda Exploration Co Ltd
Thunder Bay, Ontario

cc: R.T. Lucas,
W.C. Kerr,
Thunder Bay, Ontario

Noranda Exploration Company, Limited
(no personal liability)
P.O. Box 2656
Thunder Bay, Ontario P7B 5G2

noranda

November 25, 1982

Mr. E. F. Anderson, Director
Lands Administration Branch
Ontario Ministry of Natural Resources
Room 6450, Whitney Block
Queen's Park
Toronto, Ontario
M7A 1W3

Dear Sir:

Re: Claim Numbers K486956, et al

Find enclosed reports, maps and Technical Data Statements for a geological survey reported on these claims.

The survey was performed by Selco and our geologist, Paul Nielsen, has signed where appropriate on their behalf. We trust this is adequate.

Yours truly,

Jim Tomchick

JT:cmb
Enclosures
c.c. Wade Mathews
File 617

2.5244

	Geol.			Geol.			Geol.	
K.-486956	✓		K.-486972 ↑	½		K.-533117	✓	
57	✓		73 ↓	½		18	¼	(Lake)
58	✓		74 ↓	½	40 days	533182	✓	
59	✓		75	¼		83	✓	
60	✓		76	✓		84	✓	
61	✓		486989	¼		85	✓	
62	✓		90	✓		86	✓	
63	✓		91	✓		87	✓	
64	✓		92	✓		88	✓	
65	✓		93	✓		89	✓	
66	¼		94	✓		90	✓	
67	¼		95	✓		533191	✓	
68	✓		(corner) 96	¾	40 days			
69	✓		486997	✓				
70	✓		533115	✓				
486971	✓		16	✓				

– Good overall mapping and detailed report with photos, Rose diagrams, etc.
∴ Accepted

D.K.

LAWRENCE LAKE M-2579

BROOKS LAKE M-2473

NAPANEE LAKE M-2469

KAIARSKONS LAKE M-2430

93°30' 93°15' 49°15' 49°07'30"

Hill L. Hook Lake Lawrence Lake Fog Lake Hook Lake Upper Lawrence Lake Lawrence River Konigson Bivouac Lake Asheigama Lake Crossroute Holstein Lake Lake Bartley Lake Bartley Cr. Sullivan Lake Bluffpoint Lake Bluffpoint Creek Straw Cr. Lake Harris Lake Harris Cr. Lake Yoke Lake Straw Lake Pipestone Lake Pipestone Cr. Thompson Bay Floyd Lake Missu Lake Manitou Stretch

9M. 10M. 11M. 12M. 13M. 14M. 15M. 16M.

WEST DIVISION SURVEYED BY SPEIGHT & VON NOSTRAND 1927

EB.1006 EB.1021 EB.1022 EB.1023 EB.1024 EB.1025 EB.029

2,5244

DATE OF ISSUE
JUL - 6 1983
Ministry of Natural Resources
TORONTO

AREA OF

BLUFFPOINT LAKE

DISTRICT OF
KENORA

KENORA
MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

LEGEND

PATENTED LAND	(P)
CROWN LAND SALE	C.S.
LEASES	(L)
LOCATED LAND	Loc.
LICENSE OF OCCUPATION	L.O.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
ROADS	
IMPROVED ROADS	
KING'S HIGHWAYS	
RAILWAYS	
POWER LINES	
MARSH OR MUSKEG	
MINES	

NOTES

400' Surface Rights Reservation along the shores of all Lakes and Rivers.

NATIONAL TOPOGRAPHIC SERIES 52F3

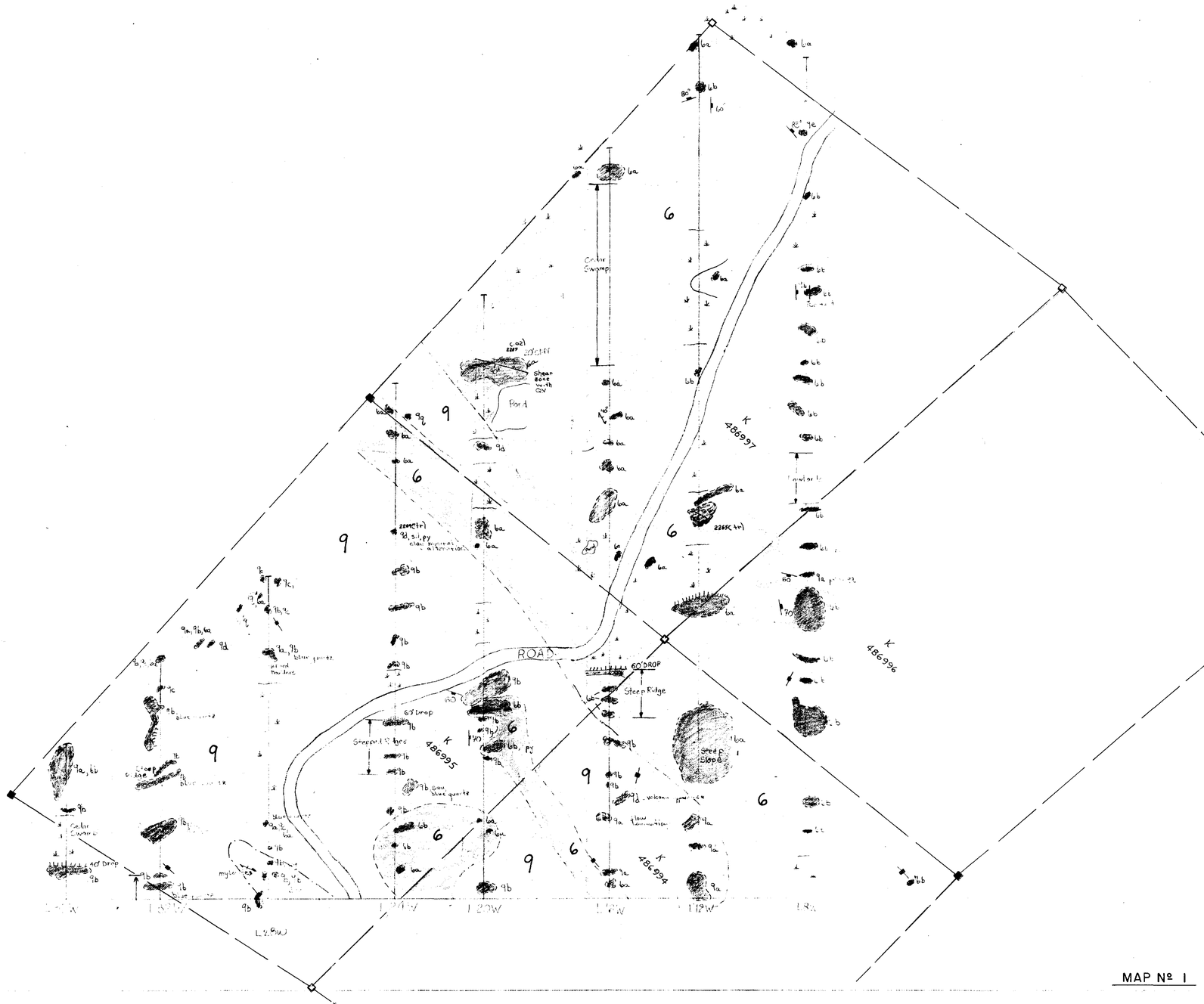
PLAN NO. M-2471

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

52F03N#0031 2,5244 BLUFFPOINT LAKE

200

492932



LEGEND

9 [9] - LAWRENCE LAKE BATHOLITH

- a - mixed contact zone
- b - pink feldspathic granodiorite
- c - white granodiorite
- d - cherty weathering chilled granodiorite
- e - impure granodiorite
- g - feldspar porphyry, porphyry dikes
- v - aplitic and felsite dikes

6 MAFIC INTRUSIVE ROCKS

- a - biotite-hornblende diorite
- b - biotite-hornblende quartz diorite

Alteration: py - pyrite
ser - sericite
sau - saussurite
sil - silification

Symbols

- Joints, vertical, dipping
- Foliation, vertical, dipping
- Outcrop boundary
- Small outcrop
- Geological boundary
- Cliff face
- Qv - Quartz vein
- f.g. - Fine grained
- 2224(.02) - Assay number, value in oz/ton
- zone 'A' - Alteration zones (approx.)

N

MAP Nº 1

SELCO INC. EXPLORATION

STRAW LAKE PROJECT

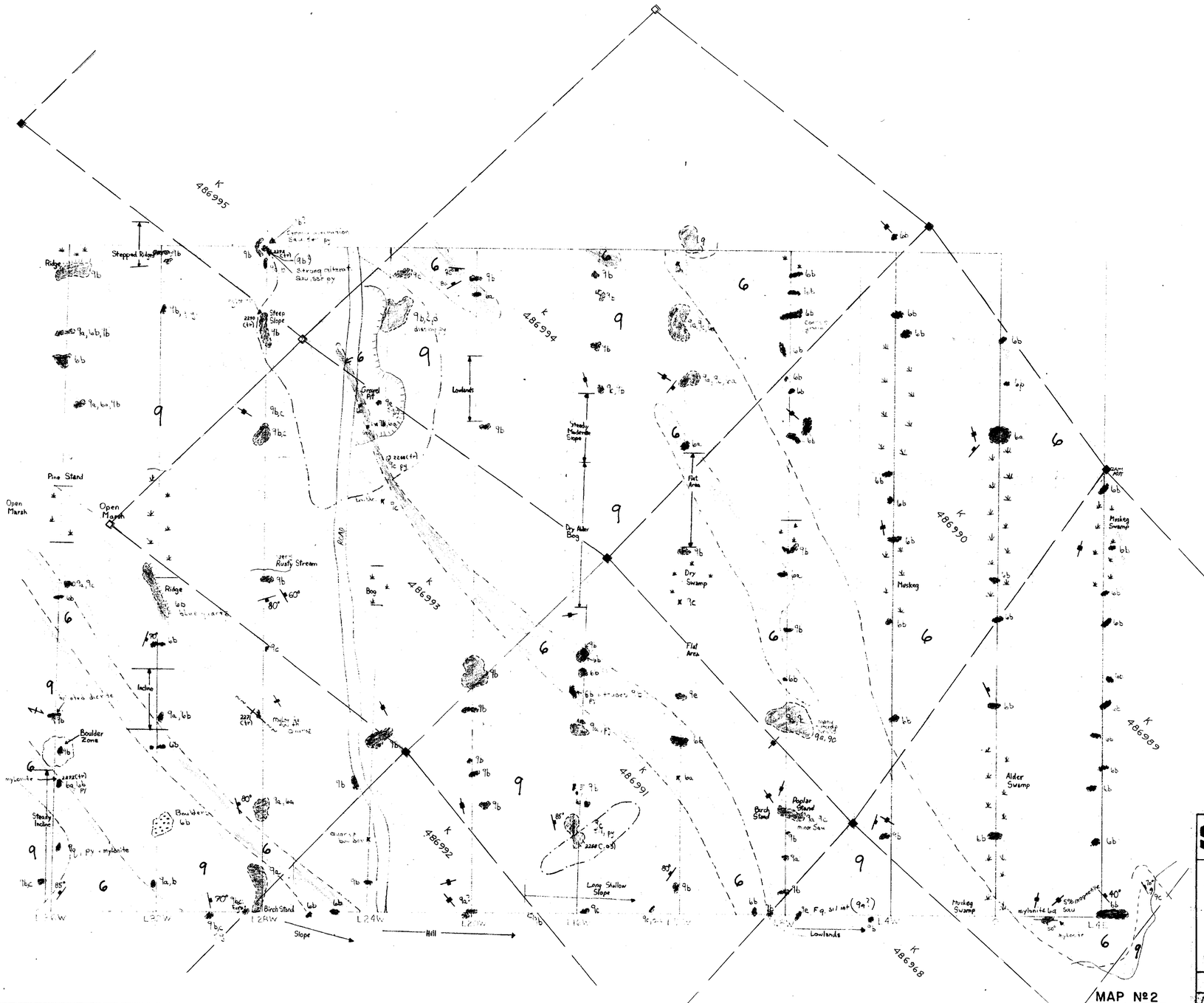
FAIRSERVICE # 3 PROPERTY

GEOLOGY

DRAWN BY	DATE	N.T.S.	PLAN
APPROVED	DATE		ST. 3299

52F03NW0031 2.5244 BLUFFPOINT LAKE

210



LEGEND

9 - LAWRENCE LAKE BATHOLITH
- a- mixed contact zone
- b- pink feldspathic granodiorite
- c- white granodiorite
- d- cherty weathering chilled granodiorite
- e- impure granodiorite
- g- feldspar porphyry, porphyry dikes
- v- aplitic and felsite dikes

6 MAFIC INTRUSIVE ROCKS
- a- biotite-hornblende diorite
- b- biotite-hornblende quartz diorite

Alteration: py - pyrite; ser - sericite; sau - saussurite; sil - silification

Symbols
- Joints, vertical, dipping
- Foliation, vertical, dipping
- Outcrop boundary
- Small outcrop
- Geological boundary
- Cliff face
- Qv - Quartz vein
- f.g. - Fine grained
- 2224(.02) - Assay number, value in oz/ton
- zone A - Alteration zones (approx.)

MAP Nº2

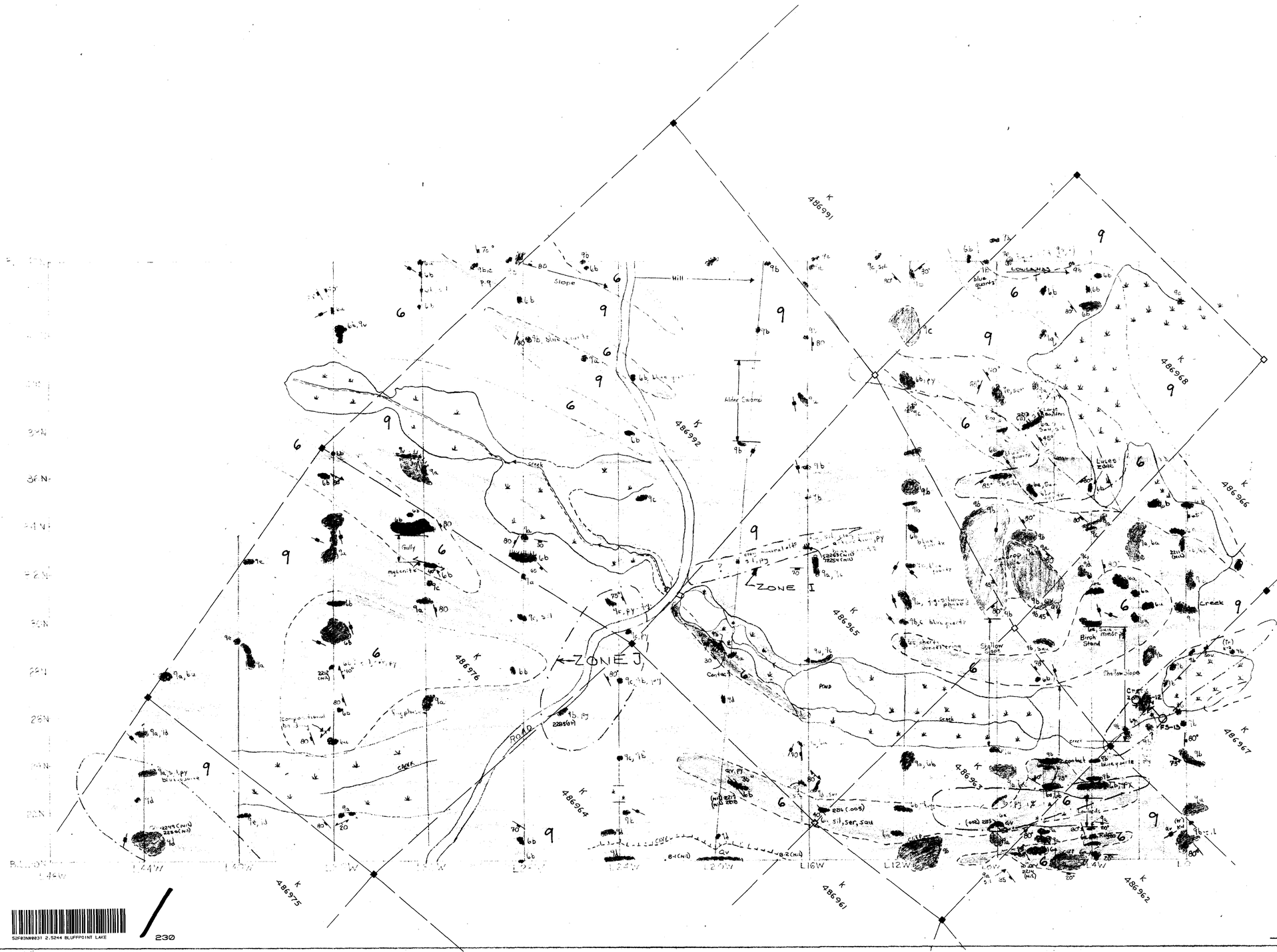
SELCO INC. EXPLORATION

STRAW LAKE PROJECT
FAIRSERVICE # 3 PROPERTY
GEOLOGY

DRAWN BY	DATE	N.T.S.	PLAN
CHECKED BY	DATE	2 5244	ST. 3300

52F03NW0031 2.5244 BLUFFPOINT LAKE

220



LEGEND

9 - LAWRENCE LAKE BATHOLITH

- a - mixed contact zone
- b - pink feldspathic granodiorite
- c - white granodiorite
- d - cherty weathering chilled granodiorite
- e - impure granodiorite
- g - feldspar porphyry, porphyry dikes
- v - aplitic and felsite dikes

6 MAFIC INTRUSIVE ROCKS

- a - biotite-hornblende diorite
- b - biotite-hornblende quartz diorite

Alteration: py - pyrite
ser - sericite
sau - saussurite
sil - silification

Symbols

- Joints, vertical, dipping
- Foliation, vertical, dipping
- Outcrop boundary
- Small outcrop
- Geological boundary
- Cliff face
- Qv - Quartz vein
- f.g. - Fine grained
- 2224(.02) - Assay number, value in oz/ton
- zone A - Alteration zones (approx.)

MAP № 3

SELCO INC. EXPLORATION

STRAW LAKE PROJECT

FAIRSERVICE # 3 PROPERTY

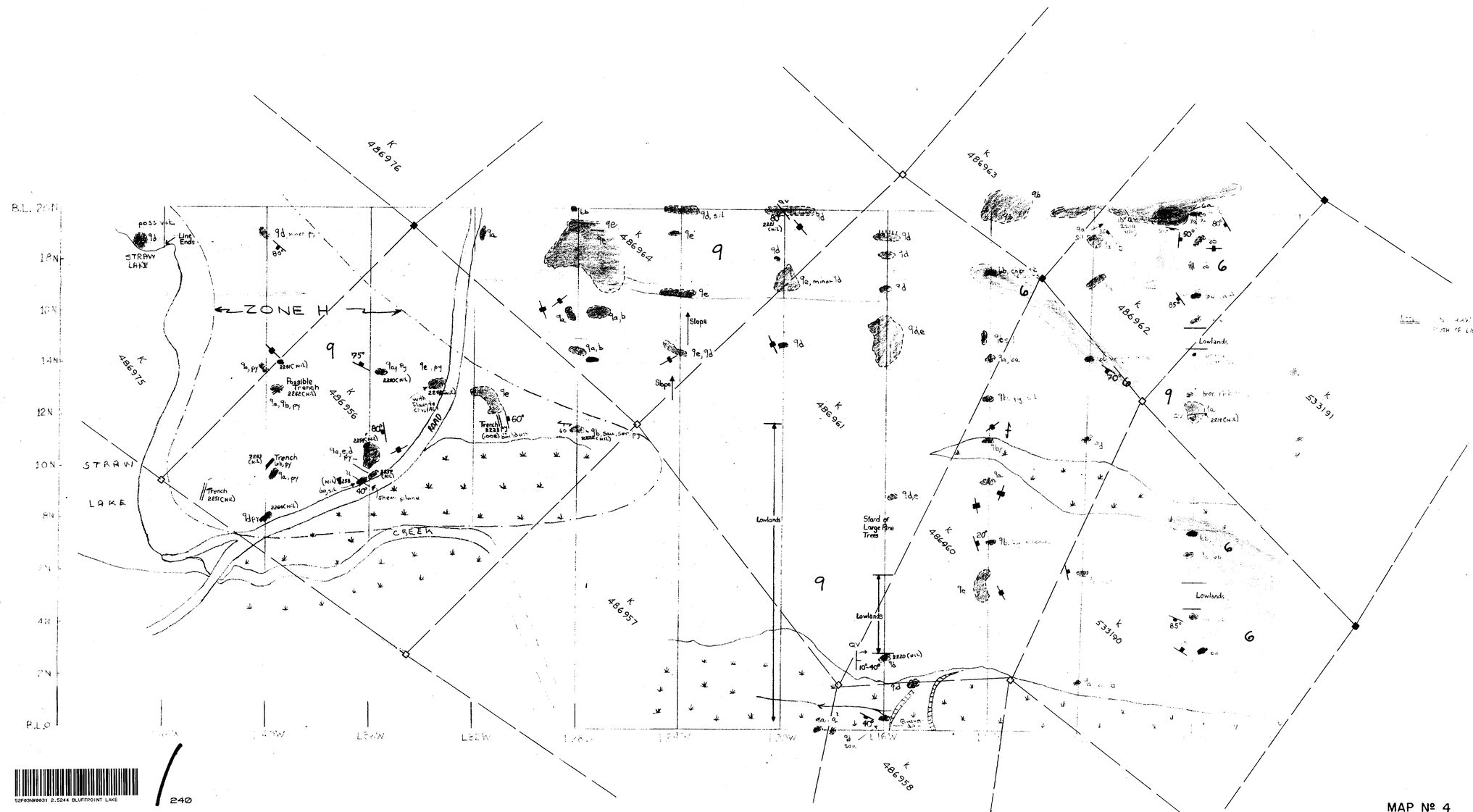
GEOLOGY

(3)

DRAWN BY	DATE	N.T.S.	PLAN
APPROVED BY	DATE	25244	ST.3301

S2F03NW0031 2.5244 BLUFFPOINT LAKE

230



LEGEND

9 - LAWRENCE LAKE BATHOLITH

- a- mixed contact zone
- b- pink feldspathic granodiorite
- c- white granodiorite
- d- cherty weathering chilled granodiorite
- e- impure granodiorite
- g- feldspar porphyry, porphyry dikes
- v- aplitic and felsite dikes

6 MAFIC INTRUSIVE ROCKS

- a- biotite-hornblende diorite
- b- biotite-hornblende quartz diorite

Alteration: py - pyrite
ser - sericite
sau - saussurite
sil - silification

Symbols

- 40° - Joints, vertical, dipping
- 40° - Foliation, vertical, dipping
- Outcrop boundary
- Small outcrop
- Geological boundary
- Cliff face
- Qv - Quartz vein
- f.g. - Fine grained
- 2224(.02) - Assay number, value in oz/ton
- zone 'A' - Alteration zones (approx.)

N

MAP № 4

SELCO INC. EXPLORATION

STRAW LAKE PROJECT

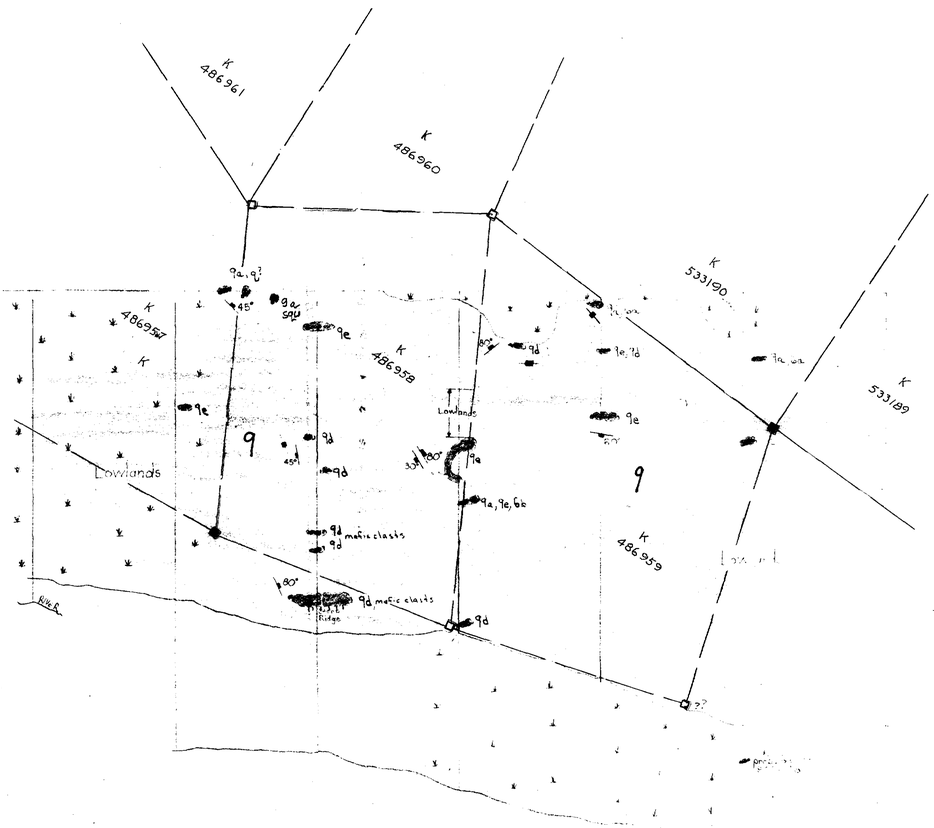
FAIRSERVICE # 3 PROPERTY

GEOLOGY

DRAWN BY	DATE	N.T.S.	PLAN
A.R.C.P.Eng.	DATE		ST. 3302

52F03NW0031 2.5244 BLUFFPOINT LAKE

240



LEGEND

9 - LAWRENCE LAKE BATHOLITH

- a - mixed contact zone
- b - pink feldspathic granodiorite
- c - white granodiorite
- d - cherty weathering chilled granodiorite
- e - impure granodiorite
- g - feldspar porphyry, porphyry dikes
- v - aplitic and felsite dikes

6 MAFIC INTRUSIVE ROCKS

- a - biotite-hornblende diorite
- b - biotite-hornblende quartz diorite

Alteration: py - pyrite
ser - sericite
sau - saussurite
sil - silification

Symbols

- Joints, vertical, dipping
- Foliation, vertical, dipping
- Outcrop boundary
- Small outcrop
- Geological boundary
- Cliff face
- Qv - Quartz vein
- f.g. - Fine grained
- 2224(02) - Assay number, value in oz/ton
- zone 'A' - Alteration zones (approx.)

N

MAP Nº 5

SELCO INC. EXPLORATION

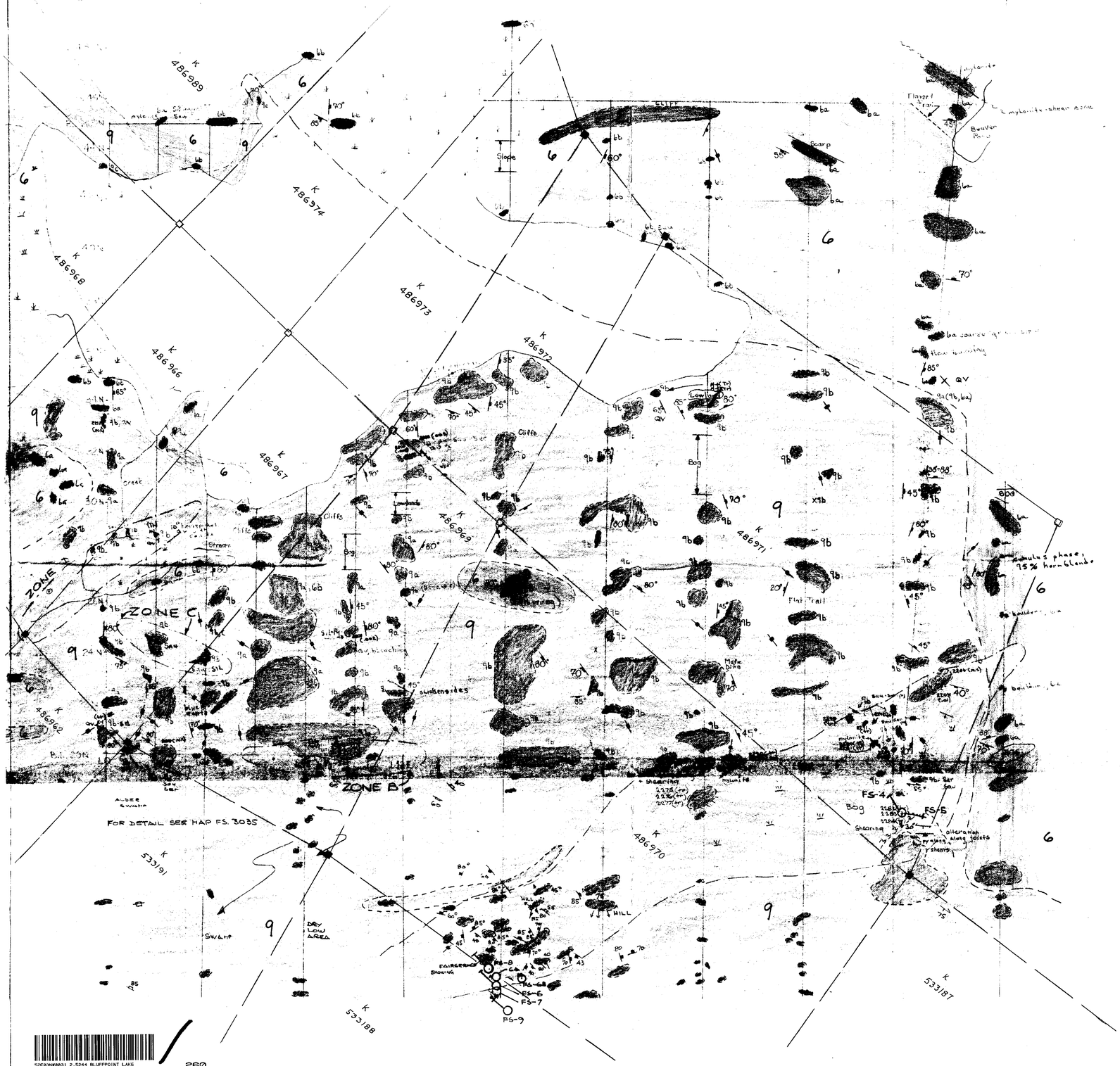
STRAW LAKE PROJECT

FAIRSERVICE # 3 PROPERTY

GEOLOGY

DRAWN BY	DATE	N.T.S.	PLAN
W.C. KERR	JUNE, 1981		ST. 3303
TRACED BY	DATE		

250



LEGEND

9 - LAWRENCE LAKE BATHOLITH

- a - mixed contact zone
- b - pink feldspathic granodiorite
- c - white granodiorite
- d - cherty weathering chilled granodiorite
- e - impure granodiorite
- g - feldspar porphyry, porphyry dikes
- v - aplitic and felsite dikes

6 MAFIC INTRUSIVE ROCKS

- a - biotite-hornblende diorite
- b - biotite-hornblende quartz diorite

Alteration: py - pyrite
ser - sericite
sau - saussurite
sil - silification

Symbols

- Joints, vertical, dipping
- Foliation, vertical, dipping
- Outcrop boundary
- Small outcrop
- Geological boundary
- Cliff face
- Qv - Quartz vein
- f.g. - Fine grained
- 2224(.02) - Assay number, value in oz/ton
- zone A - Alteration zones (approx.)

MAP Nº 6

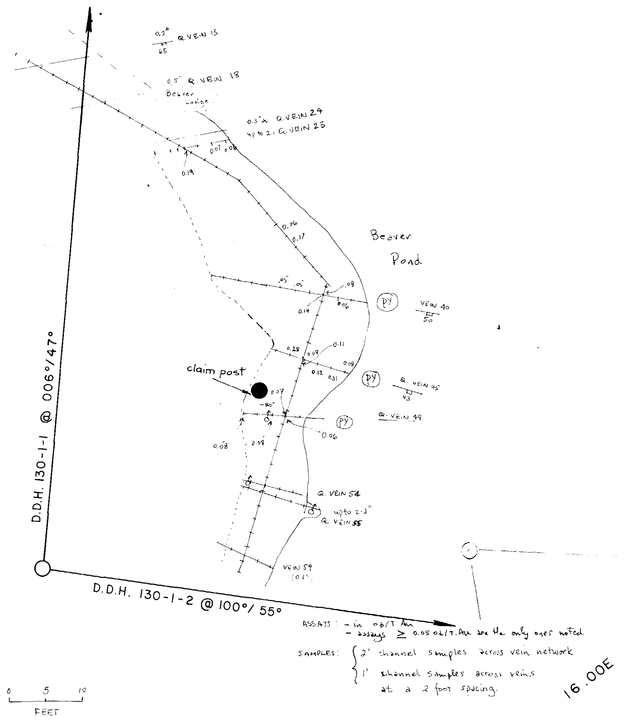
SELCO INC. EXPLORATION

STRAW LAKE PROJECT

FAIRSERVICE #3 PROPERTY

GEOLOGY

DRAWN BY	DATE	N.T.S.	PLAN
	DATE	2 5244	ST. 3304



LEGEND

Intrusive Rocks

A	DIOR-Q.D.	DIORITE - QUARTZ DIORITE	
B	T_1	NON-MAGNETIC	GRANODIORITE TO TRONDHJEMITE
C	T_2	MAGNETIC	GRANODIORITE TO TRONDHJEMITE
D	T_3	BRECCIA (MIXED CONTACT PHASE)	
	DIOR.	DIORITE	
	T_4	QUARTZ RICH LEUCOCRATIC TRONDHJEMITE	
	Q.F.P.	QUARTZ-FELDSPAR PORPHYRY	
	F.P.	FELDSPAR PORPHYRY	

Metavolcanic Rocks

E	M.Vol.	MAFIC METAVOLCANIC

SYMBOLS

- 5415 ● ASSAY NO. AND LOCATION (Au, Ag)
- Py PYRITE
- JOINT - INCLINED, VERTICAL
- SCHISTOSITY - INCLINED, VERTICAL
- GEOLOGICAL BOUNDARY (ASSUMED)
- OUTCROP BOUNDARY
- TOPOGRAPHIC BOUNDARY (MAJOR LOW AREAS ONLY)
- SWAMP

N

0 200 400
FEET

1980 DECLINATION 4.5° E

Dec'80 Added D.D.H 130-1-1 & 130-1-2

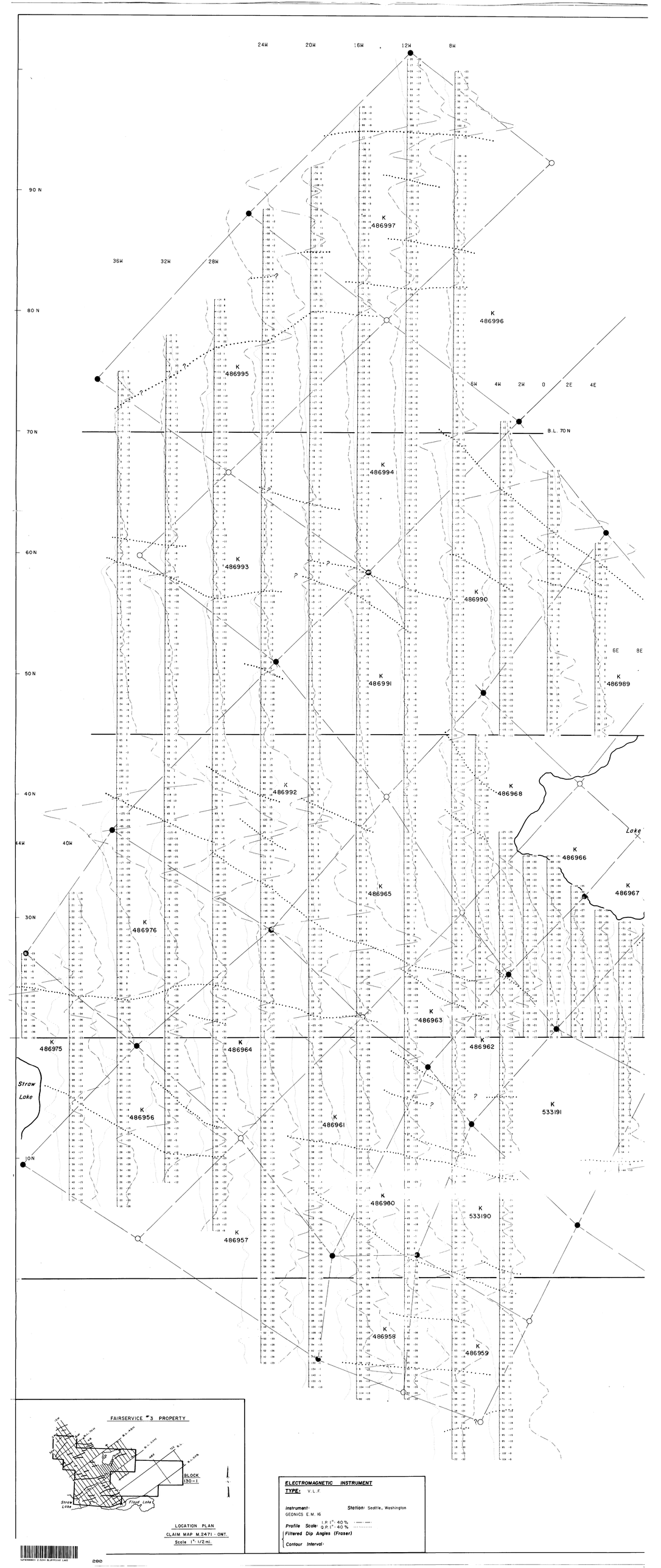
SELCO MINING CORPORATION
EXPLORATION DIVISION LIMITED

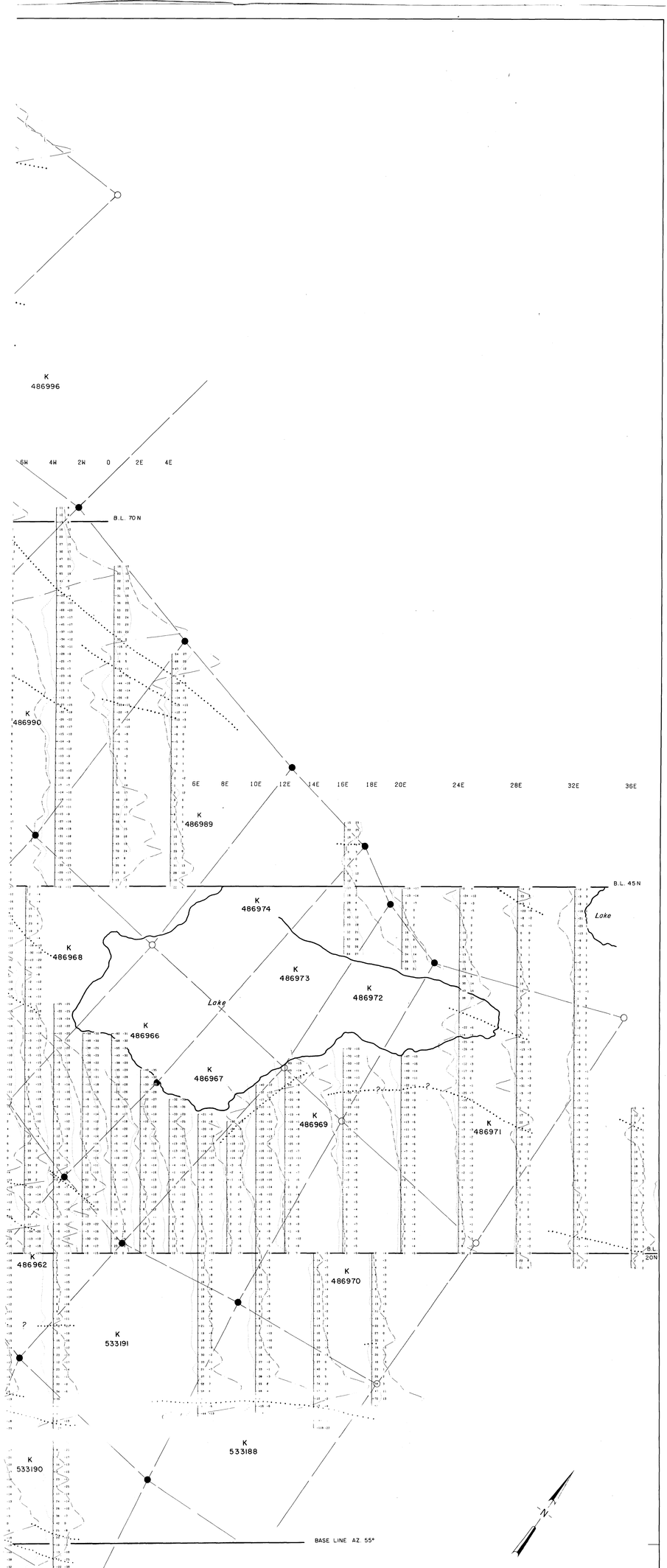
FAIRSERVICE GOLD

STRAW LAKE AREA— GEOLOGY

LUCAS-BERGEN | SEPT. 1980 | FS. 3035

D 5244


24W
20W
16W
12W
8W
90 N
36W
32W
28W
80 N
K 486997
K 486996
K 486995
6W
4W
2W
0
2E
4E
70N
B.L. 70N
K 486994
60N
K 486993
K 486990
6E
8E
50N
K 486991
K 486989
K 486992
K 486968
40N
44W
40W
Lake
K 486966
K 486967
K 486965
30N
K 486976
K 486963
K 486962
K 486975
K 486964
Straw Lake
K 486956
K 486961
K 533191
10N
K 486960
K 533190
K 486957
K 486958
K 486959
FAIRSERVICE #3 PROPERTY
BLOCK 130-1
Straw Lake
Floyd Lake
LOCATION PLAN
CLAIM MAP M.2471 - ONT.
Scale 1" 1/2 mi.
ELECTROMAGNETIC INSTRUMENT
TYPE: V.L.F.
Instrument: GEONICS E.M. 16
Station: Seattle, Washington
Profile Scale: I.P. 1" 40%
Q.P. 1" 40%
Filtered Dip Angles (Fraser)
Contour Interval:



OTHER INFORMATION	
SEE DRWG. NO	TYPE
ST. 3294C(1) ST. 3294	V.L.F. FRASER FILTER MAG. SURVEY

0 200 400
FEET

SELCO INC. EXPLORATION

STRAW LAKE PROJECT

FAIRSERVICE 3-PROPERTY I

V.L.F. SURVEY

DRAWN BY	DATE	N.T.S.	PLAN
B. Spade	July 1981		ST. 3294C(2)
TRACED BY Dataplot J.L.	DATE Aug. 1981		

24281