

GEOLOGY AND SOIL GEOCHEMISTRY
REPORT ON THE
JOB DANDY PROPERTY
OLIVER, BRITISH COLUMBIA

Latitude: 49° 10' N
Longitude: 119° 36' W
NTS: 82E/4E

FOR

YURIKO RESOURCES CORP.
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Vancouver, British Columbia
V6J 1K4

Prepared By

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FAIRBANK ENGINEERING LIMITED
Vancouver, B.C.

April, 1990

(Work dates May 22, 1989 - April 20, 1990)

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GEOLOGICAL BRANCH
ASSESSMENT REPORT

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SUMMARY

A limited exploration program of line cutting, soil sampling and geological mapping was undertaken by Fairbank Engineering Ltd. on the Joe Dandy property for Yuriko Resources Corp. Between May 22 and October 18, 1989, 5.75 line kilometres of line was emplaced on the Smuggler grid and 14.2 line kilometres of line was emplaced on the Tinhorn grid. The new grids represent extensions of the old grids located in 1987.

Six hundred soil samples were taken on the Tinhorn grid and one hundred seventy eight soil samples were taken on the Smuggler grid. Of the seven hundred seventy eight soil samples taken, three hundred eighty six were analyzed for gold, silver, arsenic and antimony at Min-En Laboratories, April 6 to 12, 1990.

The objective of the soil surveys was to geochemically trace extensions of the Tinhorn and Smuggler vein systems. This objective was not achieved as the geochemical results gave scattered point highs for gold and relatively uninteresting distributions of values for silver, arsenic and antimony.

1. INTRODUCTION

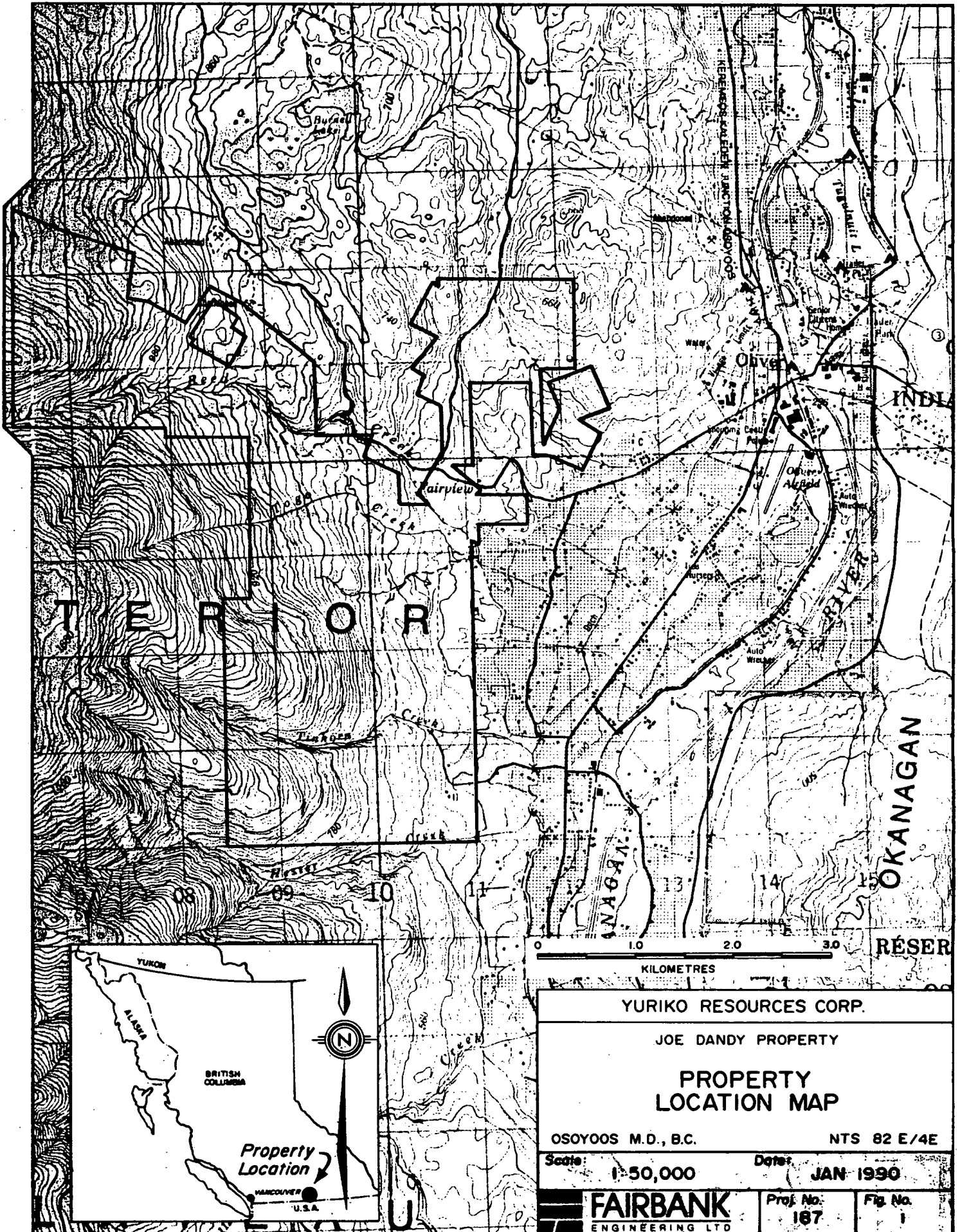
This report summarizes a program of mineral exploration (May 22, 1989 to April 20, 1990) conducted on the Joe Dandy property, Fairveiw Mining Camp, Oliver, British Columbia. The exploration program was undertaken by Fairbank Engineering Limited on behalf of Yuriko Resources Corporation.

As the initial stage of a larger exploration program the field work consisted of line cutting, soil sampling and geological mapping.

1.1 Location, Access and Topography

The Joe Dandy property lies approximately 5 kilometres east - southeast of Oliver, British Columbia, within the Osoyoos Mining Division. It is approximately centered at latitude 49° 10' north, longitude 119° 36' west on NTS map sheet 82E/4E (Figure 1).

Access to the property from Highway 97 is eastward via 7th Avenue from Oliver. 7th Avenue lends into Fairveiw Road which continues eastward to Cawston. From Fairveiw Road various gravel and dirt roads give access to the western, eastern and southern portions of the property.



YURIKO RESOURCES CORP.	
JOE DANDY PROPERTY	
PROPERTY LOCATION MAP	
OSOYOOS M.D., B.C.	NTS 82 E/4E
Scale: 1:50,000	Date: JAN 1990
FAIRBANK ENGINEERING LTD	Proj. No. 187 Fig. No. 1

Elevations on the Joe Dandy property range from 300 m. a.s.l. in the east to 1500 m. a.s.l. in the west. The steeper upper elevations are intermittently forested with pine, fir and spruce. The lower elevations consist of undulating semi-arid grasslands. Seasonal drainages on the property are Tinhorn, Reed and Togo Creeks.

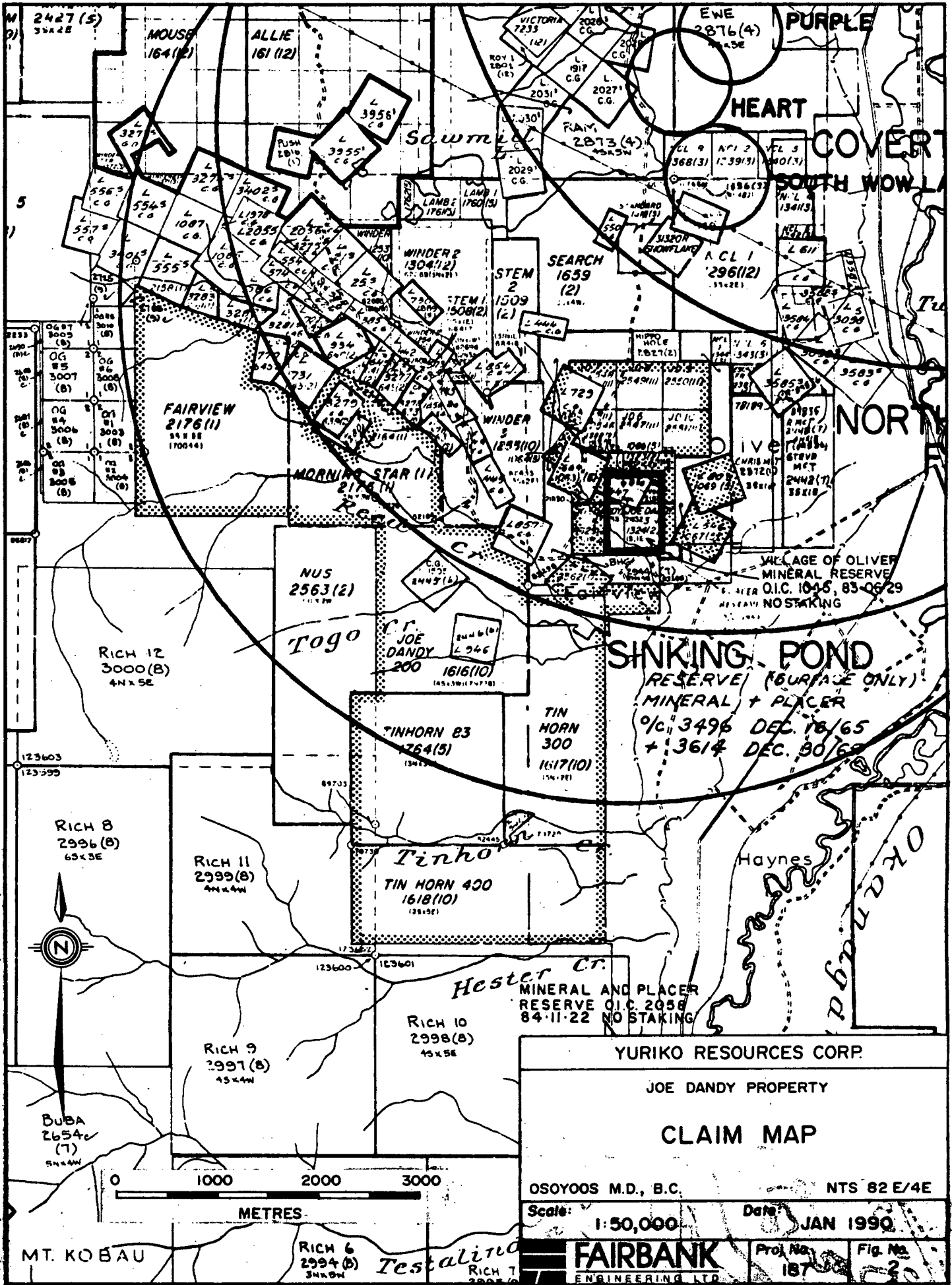
1.2 Joe Dandy Property

The Joe Dandy property consists of 9 reverted crown grants, 10 modified grid claims and 7 2 post mineral claims (Figure 2). These claims cover the old Tinhorn, Smuggler and Joe Dandy veins and underground workings. They are optioned by Yuriko Resources Corporation from Messrs. L. Reichert and K. George of RR #1, Keremeos, British Columbia. Table 1 summarizes the pertinent claim information.

TABLE 1
CLAIM DATA

<u>Name</u>	<u>Lot</u>	<u>Record</u>	<u>Area</u>	<u>Expiry</u>	<u>Owner</u>
	<u>No.</u>	<u>No.</u>	<u>Ha.</u>	<u>Date</u>	
Atlas	664	1063	20.59	06/05/91	L. Reichert
Belmont Fr.	837	1064	4.45	06/05/91	L. Reichert
Comstock	729	1065	20.90	06/05/91*	L. Reichert
Joe Dandy	447	1066	8.34	06/05/91*	L. Reichert
Gilpin Fr.	838	1066	2.97	06/05/91*	L. Reichert
Rob Roy	546	1067	20.90	06/05/91*	L. Reichert
St. John	803	1069	20.90	06/05/91*	L. Reichert
Joe Dandy #1		1322	1 unit	03/02/92	L. Reichert
Joe Dandy #2		1323	1 unit	03/02/92	L. Reichert
Joe Dandy #3		1324	1 unit	03/02/92	L. Reichert
Joe Dandy #4		1325	1 unit	03/02/92	L. Reichert
Joe Dandy 200		1616	12 unit	18/10/90	K. George
Tin Horn 300		1617	10 unit	18/10/90	K. George
Tin Horn 400		1618	10 unit	18/10/90	K. George
Tin Horn 83		1764	9 unit	18/05/91*	K. George & L. Reichert
Morning Star		2175	9 unit	21/01/91*	K. George
Fairview		2176	15 unit	21/01/91*	K. George
Dominion	1595	2445	20.90	02/06/91*	L. Reichert
Powis	946	2446	20.84	02/06/91*	L. Reichert
JD 5		2546	20.90	18/11/90	K. George
JD 6		2547	20.90	18/11/90	K. George
JD 7		2548	20.90	18/11/90	K. George
JD 8		2549	20.90	18/11/90	K. George
JD 9		2550	20.90	18/11/90	K. George
JD 10		2551	20.90	18/11/90	K. George
Jail House		2562	20.90	21/01/91*	L. Reichert

* On acceptance of this report



From Dept. of Mines & Petroleum Resources, Victoria, B.C.

YURIKO RESOURCES CORP.	
JOE DANDY PROPERTY	
CLAIM MAP	
OSOYOOS M.D., B.C.	NTS 82 E/4E
Scale: 1:50,000	Date: JAN 1990
FAIRBANK ENGINEERING LTD.	Proj. No. 187
	Fig. No. 2

MT. KOBAU

RICH 6
2994(B)
34x4W

Testalino
RICH 7
2995(B)

SINKING POND
RESERVE (SURFACE ONLY)
MINERAL + PLACER
%C. 3496 DEC. 18/65
+ 3614 DEC. 30/65

Hester Cr.
MINERAL AND PLACER
RESERVE O.I.C. 2058
84-11-22 NO STAKING

TIN HORN 400
1618(10)
(13x3E)

TIN HORN 300
1617(10)
(15x7E)

JOE DANDY
200
1616(10)
(14x3W) (7x7E)

NUS
2563(2)
(11x7W)

RICH 12
3000(B)
4N x 5E

RICH 8
2996(B)
6S x 3E

RICH 11
2999(B)
4N x 4W

RICH 9
2997(B)
4S x 4W

RICH 10
2998(B)
4S x 5E

123603
123599

123600 123601



0 1000 2000 3000
METRES

Map labels and claim numbers: 2427(S) 35x2E, MOUSE 164(2), ALLIE 161(12), VICTORIA 7233, EWE 2876(4), PURPLE, HEART, COVERT, SOUTH WOLF, SEARCH 1659 (2), STEM 1509 (2), WINDER 2 1504(12), WINDER 3 1299(10), MORNING STAR (I) 2115(11), FAIRVIEW 2176(II) 54 x 8E (170044), RICH 12 3000(B) 4N x 5E, NUS 2563(2), JOE DANDY 200 1616(10), TIN HORN 83 1264(5), TIN HORN 300 1617(10), TIN HORN 400 1618(10), RICH 8 2996(B) 6S x 3E, RICH 11 2999(B) 4N x 4W, RICH 9 2997(B) 4S x 4W, RICH 10 2998(B) 4S x 5E, BUBA 2654(7) 5N x 4W, Hester Cr., Testalino, Haynes, OKANAGAN, VILLAGE OF OLIVER MINERAL RESERVE O.I.C. 10-6, 83-06-29 RESERVE NO STAKING, SINKING POND RESERVE (SURFACE ONLY) MINERAL + PLACER %C. 3496 DEC. 18/65 + 3614 DEC. 30/65, MINERAL AND PLACER RESERVE O.I.C. 2058 84-11-22 NO STAKING, YURIKO RESOURCES CORP. JOE DANDY PROPERTY CLAIM MAP OSOYOOS M.D., B.C. NTS 82 E/4E Scale: 1:50,000 Date: JAN 1990 FAIRBANK ENGINEERING LTD. Proj. No. 187 Fig. No. 2

1.3 History and Work

Claims were located in the Fairview Mining Camp as early as 1882 making it one of the oldest mining camps in British Columbia. By 1908 the camp was inactive and many of the claims had been abandoned. Revival of interest in the camp occurred in the 1930's and 1940's and again in the 1960's and mid-1970's.

The Tinhorn veins had two years of recorded production, 1898 and 1942 (B.C.E.M.P.R. Min Dep Files). A total of 274 tonnes of ore were mined producing 1400 gm. of gold and 467 gm. of silver (302 tons, 45 oz. of gold and 15 oz. of silver) giving an average grade of 5.11 gm. per tonne gold (0.15 oz. per ton gold) and 1.70 gm. per tonne silver (0.05 oz. per ton silver).

Two levels of underground workings occur on the Tinhorn veins. The lower level consists of approximately 55 metres of tunneling and two shafts. The upper level has a main drift of about 30 metres and three adits of unknown length.

Production from the Smuggler veins occurred intermittently between 1895 and 1973. Production records show 137 tonnes of ore mined between 1939 and 1973 yielded 2643 gm. of gold, 3763 gm. of silver, 93 kg. of lead and 174 kg. of zinc (151 tons, 84 oz. of gold, 120 oz. of silver, 205 lb. of lead and 383 lb. of zinc) (B.C.E.M.P.R. Min Dep Files). The average grades were 19.29 gm. per tonne gold (0.56 oz. per ton gold), 27.47 gm. per tonne silver (0.79 oz. per ton silver), less than 0.1% lead and 0.13% zinc.

The underground workings on the Smuggler veins consist of a 61 metre shaft with drifting on the 15 metre, 31 metre and 61 metre levels. The 61 metre level includes a 115 metre crosscut to the surface.

There is no recorded production from the Joe Dandy vein, though approximately 610 metres of tunneling on two levels and 2 shafts averaging about 18 metres deep have been described (B.C.E.M.P.R. Ministry of Mines Annual Reports).

In 1983 VLF - EM and magnetometer surveys were undertaken on the Fairview and Morning Star claims by Strato Geological Engineering Ltd. on behalf of Paymaster Resources Ltd (Englund, 1983). The report concluded that the surveys indicated a number of conductors and geological contacts that warrant followup detailed geological mapping, soil sampling and geophysical surveys.

Lawrence Mining Corporation did a program of soil sampling over the Tinhorn, Smuggler and Joe Dandy underground workings in 1984 (Wells, 1984). Gold anomalies up to 3000 ppb in soils have been identified over each of the three workings. These anomalies were not followed up.

Surface exploration work was done by Shangri-La Minerals Limited in 1987 on behalf of Yuriiko Resources Corporation. This program consisted of prospecting, underground and surface rock sampling, soil sampling, geological mapping, magnetometer surveys and limited Crone Shootback EM and Induced Polarization surveys. The target areas were the Smuggler, Tinhorn and Joe Dandy veins with limited work on the Fairview and Morning Star claims (Di Spirito, 1987).

In 1989 Fairbank Engineering Ltd. undertook a limited exploration program of line cutting and geological mapping on the Joe Dandy property. This program occurred between May 22 and October 18, 1989 under the supervision of R. Faulkner and A. Pratt. The work was performed by R. Faulkner geologist, A. Pratt field supervisor, S. MacDonald geologist and field technicians S. Courte, J. Perry and J. Twomey.

2. LINE CUTTING

Approximately 17.9 line kilometres of new grid were emplaced and 2.0 line kilometres of old grid reflagged in two grids on the Joe Dandy property. The Smuggler and Tinhorn grids respectively cover portions of the Joe Dandy 200 and Tin horn 83 mineral claims (Figure 4).

The base lines of the 1987 Smuggler and Tinhorn grids (Di Spirito, 1987) were reflagged and picketed every 25 metres. Each of these base lines were subsequently extended 1 kilometre to the northwest.

On the Smuggler grid 4.75 line kilometres of new grid has been emplaced. From the base line at 100 metre separations eight lines running approximately 500 metres to the west (relative) were flagged with 25 metre stations.

The Tinhorn grid had 13.2 line kilometres of new grid emplaced. Four lines 50 metres apart and ten lines 100 metres apart with all lines extending 500 metres east and west (relative) were flagged with 25 metre stations.

As the initial stage of the exploration program the grids are the foundation over which soil sampling, geophysical surveys and geological mapping will take place.

3. GEOLOGY

3.1 Regional Geology

Within the Intermountain^{ntaine} Tectonic Belt and the Quesnellia terrane the Joe Dandy property lies on the west side of the Okanagan River Valley. The valley as an expression of a major tectono-stratigraphic break separates high-grade metamorphic rocks of the Okanagan metamorphic complex to the east from low-grade metasedimentary and metavolcanic rocks to the west (Figure 3).

The area between the Similkameen and Okanagan River Valleys is dominated by the post-Devonian to pre-Cretaceous Kobau Group rocks. They are highly deformed, low-grade metamorphic quartzite, phyllite, schist, greenstone and marble.

In the area of the property Kobau Group rocks are intruded by the Oliver granite and the Fairview granodiorite. The Oliver pluton is approximately 155 Ma. old and is dominated by porphyritic biotite granite and quartz monzonite phases. The Fairview granodiorite is a weakly foliated hornblende-bearing granodiorite with chlorite alteration common (Mader et al, 1989). This intrusion is older than 111 Ma., but its age and compositional relationship with the Oliver pluton is not known.

Auriferous veins occur in both the meta-sediments/volcanics and the intrusives. They primarily occur in a wedge of Kobau Group rocks between the Oliver granite and the Fairview granodiorite adjacent and parallel with the granodiorite contact. The veins are concordant with the regional foliation striking northwesterly and dipping to the northeast. Veins in the intrusives are areally limited and not as abundant. The veins are believed to be of mesothermal origin.

3.2 Property Geology

Limited geological mapping was undertaken in 1989. The objective of the mapping was to delineate the contact between the Fairview granodiorite and the Kobau rocks. Most of the mapping was done on the Joe Dandy 200 mineral claim and the Powis and Dominion reverted Crown Grants (Figure 4).

LEGEND

TERTIARY

EOCENE

- Ee** SKAHA FORMATION: brecciated greenstone (Old Tom Formation), brecciated chert (Shoemaker Formation - Es1), and brecciated granite (Oliver Granite - Es2) resting as fault slices hundreds of metres across above the White Lake Formation on gently dipping faults; includes undifferentiated polymictic tuffaceous and arkose resting unconformably on these brecciated rocks near Rock Creek includes heterogeneous epiclastic breccia (Klondike Mountain Formation)
- Ewl** WHITE LAKE FORMATION: massive to thick bedded volcanic breccia and pyroclastic rocks with clasts of Trepanier Rhyolite and Kitley Lake and Yellow Lake formations; includes interbedded medium and thin beds of brown sandstone and clayey siltstone; minor carbonaceous seams; includes minor trachyte and andesite; Palynomorphs from Powers Creek indicate a Middle Eocene or older age
- Em** MARAMA FORMATION: medium brownish grey, flow banded dacite with subhedral plagioclase, hornblende and biotite phenocrysts to 5 mm in an aphanitic ground; forms the top of Black Knight Mountain, Mount Boucherie, Aeneas Butte, Mount Law
- En** MARAMA FORMATION-NIMPIT LAKE MEMBER: recessive, reddish weathering, amygdaloidal, trachyandesite with minor intercalated pyroclastic deposits; includes undifferentiated intrusive equivalents
- Ek** KITLEY LAKE FORMATION: massive, yellowish to buff, trachyte to trachyandesite; plagioclase and biotite glomerophenocrysts to 3 cm (10% of the rock) in a finely crystalline groundmass; includes ash flow tuff and minor mudstone; includes undifferentiated intrusive equivalents. Church determined K-Ar ages between 52.9 (biotite) and 44.2 Ma (whole-rocks)
- Eyl** YELLOW LAKE FORMATION: massive to thick, tabular flows of buff to light tan pyroxene-rich, mafic phonolite locally with rhomb anorthoclase phenocrysts and primary analcite; abundant zeolite fills cracks and amygdules; includes undifferentiated intrusive equivalents
- Egn** "OKANAGAN GNEISS": massive, medium grey weathering, resistant hornblende-biotite granodiorite orthogneiss; strongly foliated; grades to mylonitic gneiss, mylonite and blastomylonite; minor amphibolite and paragneiss; minor schist; minor pegmatite and aplite; strongly chloritized along Okanagan Fault; grades eastward (and up the structural succession) to JKg, mJg and Pm units of which it is presumed as to the sheared equivalent; probably also includes sheared equivalents of the Anarchist Group; presumed sheared and thermally overprinted during the Eocene; Egn1 - quartz chlorite microbreccia and related altered rocks close to the Okanagan Fault
- Egng** Massive, light grey weathering, biotite granite gneiss and granodiorite gneiss with pegmatite veins and sills

CRETACEOUS AND/OR JURASSIC

- JKg** OKANAGAN BATHOLITH: massive, light grey weathering, medium- to coarse-grained, equigranular to porphyritic, unfoliated to weakly foliated, fresh biotite granodiorite and granite; includes undifferentiated granodiorite of the Nelson suite; age poorly constrained
- Jo** OLIVER PLUTON: massive, unfoliated, medium grained porphyritic biotite granite with weakly foliated, equigranular hornblende granodiorite along the southern border; includes Jod, biotite-hornblende diorite, agmatite and Jog, massive garnet-muscovite granite; age poorly constrained

MIDDLE JURASSIC

- mJg** NELSON PLUTONIC ROCKS: massive, generally moderately foliated, medium grey weathering, medium- to coarse-grained, equigranular, hornblende-biotite granodiorite, quartz diorite and granite; includes undifferentiated biotite granite of the Valhalla suite; age poorly constrained
- Jgd** KRUGER SYENITE: massive, medium grained, biotite hornblende granodiorite with a marginal zone of megacrystic, mesocratic coarse grained hornblende syenite







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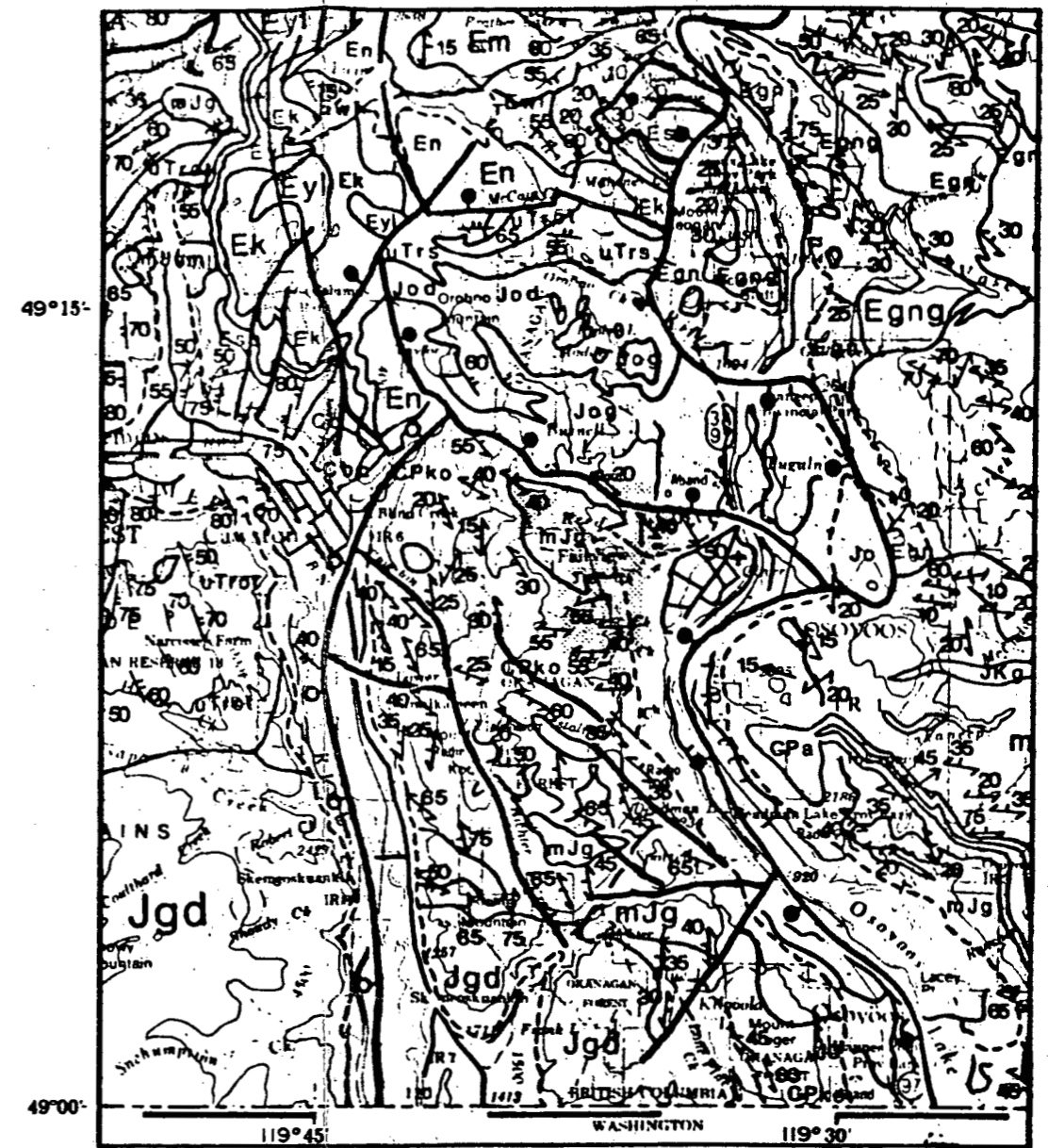
- uTrot** OLD TOM FORMATION: massive andesitic greenstone and greenstone breccia; locally includes large, extensive, strongly silicified equivalents in irregular bodies and lenses with gradational boundaries, which are undifferentiated; includes a few small lenses of undifferentiated limestone; minor diorite; unit is poorly understood; known to contain Ordovician, Carboniferous and Triassic fossils; undifferentiated; relations to Shoemaker Formation are gradational
- uTrs** SHOEMAKER FORMATION: massive, greyish green silicified volcanic rocks, including "cherty" tuff and breccia; includes undifferentiated massive greenstone; may include chert; generally fractured and broken by irregular spaced cleavage; may be largely the silicified equivalent of the Old Tom Formation

CARBONIFEROUS OR OLDER

- CPa** ANARCHIST GROUP: dark grey weathering, recessive, amphibolite, greenstone, quartz-chlorite schist, quartz-biotite schist, minor serpentized peridotite; "chert" breccia that resembles Trbc is locally included; CPap - peridotite and serpentized equivalents; CPaa - amphibolite; age unknown
- CPko** KOBANU GROUP: undivided amphibolite, greenschist, quartzite, mica schist, greenstone; minor marble; strongly foliated with penetrative flaser fabrics; age unknown

MAP SYMBOLS

- Outcrop boundary: - - - - -
- Probable stratigraphic contact, location approximate: - - - - -
- Geological contact, relations unknown, possibly faulted: - - - - -
- Strike and dip of bedding: 
- Strike and dip of foliation: 
- Trend and plunge of lineation and minor folds: 
- Inferred fault, age and displacement unknown: - - - - -
- Inferred normal fault, age unknown, circle on downthrown side: 
- Inferred Eocene normal fault, circle on downthrown side: 
- Slide - inferred fault in metamorphosed rocks, roughly parallel to foliation: 



From D. Tempelman-Kluit, 1985-86

 Property Location

YURIKO RESOURCES CORP.			
JOE DANDY PROPERTY			
REGIONAL GEOLOGY			
OSOYOOS M.D., B.C.	82 E/4E		
Scale: 1:250,000	Date: JAN 1990		
FAIRBANK ENGINEERING LTD	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Proj. No. 187</td> <td style="text-align: center;">Fig. No. 3</td> </tr> </table>	Proj. No. 187	Fig. No. 3
Proj. No. 187	Fig. No. 3		

The contact between the intrusives and the meta-sediments/volcanics is difficult to delineate as the outcrop on the Joe Dandy 200 claim occupies less than 15% of the surface area. Granodiorite and lesser amounts of granite dominate the exposed rocks with the metasediments resessively weathering and only being exposed in creek beds and on cliff faces.

The intrusives are well jointed with chloritic alteration. Jointing predominantly strikes to the northeast with dips steep to the northwest, less dominant jointing strike northwest and dip steeply to the northeast. There appears to be a gradual increase in the amount of chlorite and epidote alteration going from the northeast to the southwest. Carbonate enrichment and sausseritization of the intrusives was also noted.

Two gabbroic dykes up to 5 metres wide, cut the intrusives. the dykes trend between 122° and 155° and are traceable for over 60 metres. One of the dykes contained approximately 1% pyrite as euhedral grains to 3 millimetres in diameter.

Narrow quartz veins cut the intrusives and the metasediments. Veining in the intrusives strike between 080° and 130° and dip steeply to the north or south. Less than 5 centimetres in width, these veins often have sericitic selvages and contained tourmaline. A 5 centimetre wide tourmaline vein was noted striking 095° and dipping 67° to the north. These veins were traceable only for a short distance, usually less than 2 metres. A 10 to 15 centimetre wide quartz vein was mapped along the southeast bank of Togo Creek. Hosted by quartzite the banded white quartz vein is exposed for 6.5 metres with a strike of 028° and a dip of 61° to the southeast. The vein contained iron carbonate and euhedral pyrite grains were noted. The selvage of the vein was sericitized and the envelope was locally carbonate enrich.

4. SOIL GEOCHEMISTRY

The soil survey was undertaken to geochemically trace any northwest extensions of the Tinhorn and Smuggler vein systems.

Soil was taken from the B horizon (six to twelve inches deep) at twenty five metre intervals along the flagged grids using a mattock and placed in kraft paper sample bags. They were stored in plastic bags in cardboard boxes in a warm dry place for months prior to analysis. Upon authorization to analyze the samples it was found that the kraft sample bags had deteriorated and that only a portion of the samples were

recoverable. Of the seven hundred seventy eight samples taken, three hundred eighty six were analyzed at Min-En (Mineral Environment) Laboratories Limited, 705 West 15th Street North Vancouver, British Columbia.

The soil samples were analyzed for gold, silver, arsenic and antimony using the methodologies detailed in Appendix A. The results (are tabulated in Appendix B with gold and silver plotted on Figure 5 and arsenic and antimony plotted on Figure 6.

4.1 Tinhorn Grid

Of the six hundred samples taken on the Tinhorn grid, three hundred fifteen were analyzed. Because of the storage problems, samples from lines 250N, 350N, 700N and 800N were not recoverable. Approximately 50% of the samples from lines 400N and 500N were lost. From the other lines a few samples were not able to be analyzed.

Gold and silver geochemical values for the Tinhorn grid are plotted on Figure 5. No contouring of the plotted results has been done because of the limited number and scattered point sources of high gold and silver values. Three gold results are greater than 20 ppb Au 400N, 325E 130 ppb Au (fine assay 920ppb); 900N, 100E-150 ppb Au; and 1400N, 375E-95 ppb Au. There are two silver values greater than 1.0 ppm Ag 400N, 325E-1.9 ppm Ag; and 600N, 400E-1.2 ppm Ag.

Figure 6 shows plotted arsenic and antimony results for the Tinhorn grid. No contouring was undertaken because of the limited number of odd scattered point sources of slightly anomalous values. There are 8 samples with values greater than 25 ppb arsenic, the highest being 78 ppm As. The highest antimony result is 5ppm Sb which is only 5 times the detection limit.

There are two locations where multi-element anomalies occur, 900N 100E with the highest gold result (150 ppb Au) and highest arsenic value (78 ppm Ag) and 400N, 325E where gold is 130 ppb Au and the highest silver value of 1.9 ppm Ag occurs. There does not appear to be any trends nor anomalous zones that would suggest a geochemical trace of the extension of the Tinhorn vein.

4.2 Smuggler Grid

On the Smuggler Grid soil samples from lines 600N, 700N and 800N were chosen for analysis. Sixty three samples were geochemically analyzed for gold, silver, arsenic and antimony. Previous work suggested that the vein system may trend west northwest, therefore this soil sampling should geochemically trace any extension.

The results are plotted on Figures 5 and 6. A fairly uniform distribution occurs for the four elements. Highest values are 45 ppb Au at 700N, 475W, 0.5 ppm Ag at scattered sample sites, 8 ppm As at 700N, 125W and 4 ppm Sb at 600N, 200W. No anomalous zones or trends are noted.

5. DISCUSSION AND CONCLUSIONS

The proposal of the 1989 exploration program on the Joe Dandy property was to locate diamond drill targets for the 1990 field season. A soil sampling survey was undertaken and geological mapping initiated. Subsequent events limited the scope of the exploration program.

The limited exploration program cursorily examined only a small portion of the whole property. Soil geochemistry was unable to trace extensions of the Tinhorn or Smuggler vein systems. Only four scattered gold point anomalies were found to occur with weak to no anomalies occurring for silver, arsenic and antimony.

Possible reasons for these poor results are steep slopes, ground water movement, thick accumulations of alluvium or glacial till or the occurrence of underlying barren intrusive rock. The latter explanation maybe particularly appropriate for the Smuggler grid as limited geological mapping suggests it is underlain by Fairview granodiorite.

From work completed it is concluded that any extension of the Tinhorn and Smuggler veins are limited by the occurrence of the intrusive. Furthermore, the work completed has not allowed any targets to be located for diamond drilling.

It is possible that additional work may be able to define diamond drill targets. Continued geological mapping is recommended to determine the intrusive, sediment/volcanic contact and possibly locate any quartz veins that may be exposed. VLF-EM and magnetometer surveys may assist in defining the lithological contacts and potentially find extensions to the known vein systems.

Future work should target potential vein systems subparallel to the lithological contact. It is possible that the Tinhorn vein and Smuggler vein are exposed portions of a discontinuous vein subparallel to the contact.

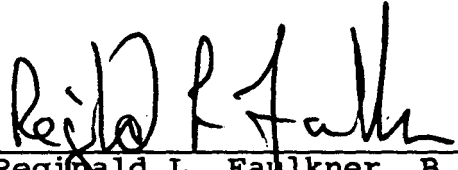
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Claim Group in the Osoyoos Mining Division Geochemical
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Assessment Report 12, 189.

7. STATEMENT OF QUALIFICATIONS

I, Reginald L. Faulkner of #302 - 1475 West 11th Avenue, Vancouver, British Columbia hereby certify that:

1. I am an exploration geologist and a graduate of the University of British Columbia, with a B.Sc. in Physical Geography/Geology in 1974 with additional course work in Geology in 1977-79 and 1982-83.
2. I obtained a M.A.Sc. from the University of British Columbia in Mining and Mineral Process Engineering in 1988, emphasizing mineral economics.
3. I am a Fellow of the Geological Association of Canada.
4. I have practiced as a geologist since 1979 for companies, including RIOCANEX, Vancouver, B.C.; Denison Mines Limited, Vancouver, B.C.; Duval International Corporation, Vancouver B.C.; Trigg, Woollett, Olsen Consulting Limited, Edmonton, Alberta; Terra Mines Limited, Edmonton, Alberta, and Fairbank Engineering Limited, Vancouver, B.C.
5. The details of this report are based on work done by Fairbank Engineering from May 22 to October 18, 1989.



Reginald L. Faulkner, B.Sc. M.A.Sc.

January 1990

8. STATEMENT OF COSTS

Jan. 22, 1990 Statement of Work

Wages

R. Faulkner	3 days	@ \$350/day	1050	
A. Pratt	4.5 days	@ 240/day	1080	
S. Courte	4.5 days	@ 232/day	1044	
J. Perry	3 days	@ 200/day	600	
			<u>3774</u>	\$3774

Room & Board

15 Mondays @ \$50/Monday	750	\$ 750
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Truck

Rental	5 days @ \$60/day	300	
Fuel	5 days @ \$10/day	50	
		<u>350</u>	\$350

Miscellaneous

Consumables			<u>\$ 26</u>
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<u>Total Costs</u>			\$4900
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To be filed May 6/90 Rff.

April 20, 1990 Statement of Work

Soil Chemistry

Analyses	386 soil samples @ \$14.95/sample prep, Au, Ag, As, Sb analyses April 9 to 13, 1990 Min. En. Laboratories		<u>\$5770.70</u>
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<u>Total Costs</u>			\$5770.70
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Appendix A

Geochemical Analytical Methods

MIN-EN Laboratories Ltd.

Specialists in Mineral Environments

Corner 15th Street and Bewicke
705 WEST 15TH STREET
NORTH VANCOUVER, B.C.
CANADA V7M 1T2

GOLD GEOCHEMICAL ANALYSIS BY MIN-EN LABORATORIES LTD.

Geochemical samples for Gold processed by Min-En Laboratories Ltd., at 705 W. 15th St., North Vancouver Laboratory employing the following procedures.

After drying the samples at 95°C soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed and pulverized by ceramic plated pulverizer.

A suitable sample weight 5.0 or 10.0 grams are pretreated with HNO_3 and HClO_4 mixture.

After pretreatments the samples are digested with Acqua Regia solution, and after digestion the samples are taken up with 25% HCl to suitable volume.

Further oxidation and treatment of at least 75% of the original sample solutions are made suitable for extraction of gold with Methyl Iso-Butyl Ketone.

With a set of suitable standard solution gold is analysed by Atomic Absorption instruments. The obtained detection limit is 0.005 ppm (5ppb).

MIN-EN Laboratories Ltd.

Specialists in Mineral Environments

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CANADA

ANALYTICAL PROCEDURE REPORTS FOR ASSESSMENT WORK.

PROCEDURES FOR, Cu, Mo, Cd, Pb, Mn, Ni, Ag, Zn.

Samples are processed by Min-En Laboratories Ltd. at 705 W. 15th St., North Vancouver Laboratory employing the following procedures.

After drying the samples at 95°C soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed by jaw crusher and pulverized by ceramic plated pulverizer.

1.0 gram of the samples are digested for 6 hours with HNO_3 and HClO_4 mixture.

After cooling samples are diluted to standard volume. The solutions are analysed by Atomic Absorption Spectrophotometers.

Copper, lead, zinc, silver, cadmium, cobalt, nickel and manganese are analysed using the CH_2H_2 -Air flame combination but the molybdenum determination is carried out by C_2H_2 - N_2O gas mixture directly or indirectly (depending on the sensitivity and detection limit required) on these sample solutions.

Background corrections for Pb, Ag, Cd upon request are completed.

MIN-EN Laboratories Ltd.

Specialists in Mineral Environments

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705 WEST 15TH STREET
NORTH VANCOUVER, B.C.
CANADA V7M 1T2

ANALYTICAL PROCEDURE REPORT FOR ASSESSMENT WORK

PROCEDURE FOR ARSENIC:

Samples are processed by Min-En Laboratories Ltd., at 705 West 15th St., North Vancouver Laboratory employing the following procedures.

After drying the samples at 95°C soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed by a jaw crusher and pulverized by ceramic plated pulverizer.

1.0 gram of the samples are digested for 6 hours with HN03 and HCl04 mixture.

After cooling samples are diluted to standard volume. A suitable aliquote is taken from the above 1 gram sample solution and the test is carried out by Gutzit method using Ag CS₂N (C₂H₅)₂ as a reagent. The detection limit obtained is 1. ppm.

Appendix B

Soil Geochemical Results



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TIMMINS OFFICE:
33 EAST IROQUOIS ROAD
P.O. BOX 867
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

Geochemical Analysis Certificate

OV-0319-SG1

Company: **FAIRBANK ENGINEERING**
Project: **JOE DANDY**
Attn: **AL PRATT**

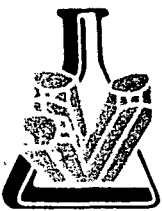
Date: **APR-12-90**
Copy 1. FAIRBANK ENGRG., VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 30 SOIL samples submitted APR-10-90 by ALAN PRATT.

Sample Number	AU-WET PPB	AG PPM	AS PPM	SB PPM
SM-600N-000E	5	0.3	6	2
SM-600N-025W	5	0.4	5	1
SM-600N-050W	5	0.4	6	1
SM-600N-075W	5	0.2	6	1
SM-600N-100W	5	0.3	5	2
SM-600N-125W	10	0.3	6	1
SM-600N-150W	5	0.3	4	1
SM-600N-175W	5	0.3	4	1
SM-600N-200W	5	0.4	6	4
SM-600N-225W	5	0.5	5	1
SM-600N-250W	5	0.3	6	1
SM-600N-275W	10	0.3	5	2
SM-600N-300W	5	0.5	3	1
SM-600N-325W	10	0.3	4	1
SM-600N-350W	5	0.4	5	1
SM-600N-375W	15	0.2	5	1
SM-600N-400W	5	0.3	5	1
SM-600N-425W	5	0.2	4	2
SM-600N-450W	5	0.4	2	1
SM-600N-475W	5	0.3	4	1
SM-600N-500W	5	0.3	4	1
SM-700N-000E	5	0.4	5	1
SM-700N-025W	5	0.2	5	1
SM-700N-050W	5	0.2	5	2
SM-700N-075W	5	0.3	5	1
SM-700N-100W	5	0.3	7	1
SM-700N-125W	5	0.3	8	1
SM-700N-150W	10	0.3	5	2
SM-700N-175W	5	0.4	4	1
SM-700N-200W	5	0.3	4	1

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P.O. BOX 867
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

Geochemical Analysis Certificate

OV-0319-SG2

Company: **FAIRBANK ENGINEERING**
Project: **JOE DANDY**
Attn: **AL PRATT**

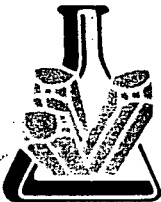
Date: **APR-12-90**
Copy 1. FAIRBANK ENGR., VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 30 SOIL samples submitted APR-10-90 by ALAN PRATT.

Sample Number	AU-WET PPB	AG PPM	AS PPM	SB PPM
SM-700N-225W	5	0.4	4	3
SM-700N-250W	5	0.3	5	1
SM-700N-275W	5	0.5	3	1
SM-700N-300W	5	0.2	3	1
SM-700N-325W	5	0.3	4	2
SM-700N-350W	5	0.4	4	1
SM-700N-375W	5	0.2	3	1
SM-700N-400W	5	0.2	3	2
SM-700N-425W	5	0.4	2	1
SM-700N-450W	5	0.5	4	1
SM-700N-475W	45	0.3	4	3
SM-700N-500W	5	0.4	6	1
SM-800N-000E	5	0.3	5	1
SM-800N-025W	5	0.2	3	1
SM-800N-050W	5	0.2	2	1
SM-800N-075W	5	0.4	4	1
SM-800N-100W	5	0.3	3	1
SM-800N-125W	10	0.3	3	1
SM-800N-150W	10	0.4	4	1
SM-800N-175W	5	0.4	5	1
SM-800N-200W	10	0.2	3	2
SM-800N-225W	5	0.4	4	1
SM-800N-250W	5	0.2	3	1
SM-800N-275W	5	0.3	4	1
SM-800N-300W	5	0.4	5	1
SM-800N-325W	5	0.3	3	1
SM-800N-350W	10	0.5	4	1
SM-800N-375W	5	0.4	4	2
SM-800N-400W	5	0.2	1	1
SM-800N-425W	5	0.2	1	1

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TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

Geochemical Analysis Certificate

OV-0319-SG3

Company: **FAIRBANK ENGINEERING**
Project: **JOE DANDY**
Attn: **AL PRATT**

Date: **APR-12-90**
Copy 1: **FAIRBANK ENGRG., VANCOUVER, B.C.**

We hereby certify the following Geochemical Analysis of 3 SOIL samples submitted APR-10-90 by ALAN PRATT.

Sample Number	AU-WET PPB	AG PPM	AS PPM	SB PPM
SM-800N-450W	5	0.2	4	1
SM-800N-475W	5	0.2	3	1
SM-800N-500W	5	0.2	3	2

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TELEPHONE: (705) 264-9996

Geochemical Analysis Certificate

0V-0308-SG1

Company: FAIRBANK ENGINEERING LTD

Date: APR-12-90

Project: JOE DANDY

Copy: 1. FAIRBANK ENGRG., VANCOUVER, B.C.

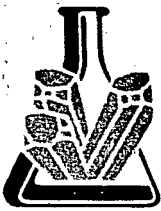
Attn: AL PRATT

We hereby certify the following Geochemical Analysis of 24 SOIL samples submitted APR-06-90 by A. PRATT.

Sample Number	AU-WET PFB	AG PPM	AS PPM	SB PPM
TH-500N-25W	5	0.4	10	1
TH-500N-50W	10	0.4	13	1
TH-500N-75W	5	0.3	11	1
TH-500N-100W	5	0.4	3	1
TH-500N-125W	5	0.4	4	1
TH-500N-150W	5	0.5	8	1
TH-500N-200W	5	0.3	10	2
TH-500N-250W	5	0.3	5	1
TH-500N-300W	10	0.4	7	1
TH-500N-350W	5	0.4	12	3
TH-500N-400W	10	0.3	14	1
TH-500N-450W	5	0.2	5	3
TH-500N-500W	10	0.2	6	1
TH-600N-500E	5	0.2	2	4
TH-600N-450E	5	0.2	1	1
TH-600N-400E	5	1.2	10	1
TH-600N-350E	5	0.2	15	3
TH-600N-300E	5	0.2	10	1
TH-600N-250E	5	0.3	9	2
TH-600N-200E	10	0.2	9	1
TH-600N-150E	5	0.2	6	2
TH-600N-125E	5	0.4	11	2
TH-600N-100E	5	0.2	8	2
TH-600N-075E	10	0.4	9	1

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Geochemical Analysis Certificate

OV-0308-SG2

Company: **FAIRBANK ENGINEERING LTD**
Project: **JOE DANDY**
Attn: **AL PRATT**

Date: **APR-12-90**
Copy 1. FAIRBANK ENGRS., VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 24 SOIL samples submitted APR-06-90 by A. PRATT.

Sample Number	AU-WET PPB	AG PPM	AS PPM	SB PPM
TH-600N-050E	5	0.5	8	2
TH-600N-025E	5	0.4	7	1
TH-600N-000E	5	0.4	13	1
TH-600N-25W	10	0.4	12	1
TH-600N-50W	5	0.6	17	1
TH-600N-75W	5	0.4	11	1
TH-600N-100W	5	0.2	12	1
TH-600N-125W	5	0.4	14	1
TH-600N-150W	5	0.3	9	1
TH-600N-200W	10	0.4	29	1
TH-600N-250W	5	0.8	14	2
TH-600N-300W	5	0.4	8	1
TH-600N-350W	5	0.2	9	1
TH-600N-400W	5	0.2	12	1
TH-600N-450W	5	0.2	9	1
TH-600N-500W	5	0.4	13	3
TH-900N-500E	5	0.2	12	1
TH-900N-450E	5	0.2	5	3
TH-900N-400E	5	0.2	8	1
TH-900N-350E	10	0.3	12	1
TH-900N-300E	10	0.2	6	1
TH-900N-250E	20	0.6	13	1
TH-900N-200E	10	0.3	11	1
TH-900N-150E	5	0.2	7	1

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TELEPHONE: (705) 264-9996

Geochemical Analysis Certificate

OV-0308-SG3

Company: **FAIRBANK ENGINEERING LTD**
Project: **JOE DANDY**
Attn: **AL PRATT**

Date: **APR-12-90**
Copy 1. FAIRBANK ENGRG., VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 24 SOIL samples submitted APR-06-90 by A. PRATT.

Sample Number	AU-WET PPB	AG PPM	AS PPM	SB PPM
TH-900N-100E	150	0.8	78	2
TH-900N-050E	10	0.3	8	1
TH-900N-000E	10	0.5	15	1
TH-900N-50W	5	0.4	16	2
TH-900N-100W	5	0.2	14	1
TH-900N-150W	5	0.2	21	2
TH-900N-200W	5	0.2	7	1
TH-900N-250W	5	0.3	7	1
TH-900N-300W	10	0.2	12	1
TH-900N-350W	10	0.2	7	1
TH-900N-400W	5	0.3	10	1
TH-900N-500W	5	0.2	11	2
TH-1100N-500E	5	0.3	9	1
TH-1100N-450E	5	0.2	5	1
TH-1100N-400E	5	0.3	8	1
TH-1100N-350E	5	0.3	6	1
TH-1100N-300E	5	0.4	4	2
TH-1100N-250E	5	0.4	5	3
TH-1100N-200E	10	0.3	5	1
TH-1100N-150E	5	0.2	9	2
TH-1100N-100E	5	0.2	8	1
TH-1100N-050E	5	0.2	9	3
TH-1100N-000E	5	0.2	5	1
TH-1100N-50W	15	0.6	44	3

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P.O. BOX 887
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

Geochemical Analysis Certificate

OV-0308-SG4

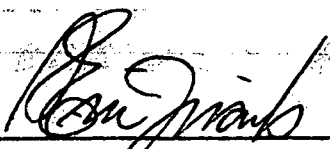
Company: **FAIRBANK ENGINEERING LTD**
Project: **JOE DANDY**
Attn: **AL PRATT**

Date: **APR-12-90**
Copy 1. **FAIRBANK ENGR., VANCOUVER, B.C.**

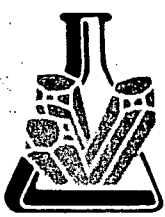
We hereby certify the following Geochemical Analysis of 24 SOIL samples submitted APR-06-90 by A.PRATT.

Sample Number	AU-WET PPB	AG PPM	AS PPM	SB PPM
TH-1100N-100W	5	0.4	13	1
TH-1100N-150W	10	0.3	13	1
TH-1100N-200W	5	0.1	8	1
TH-1100N-250W	5	0.3	5	1
TH-1100N-300W	5	0.6	13	1
TH-1100N-350W	5	0.3	12	1
TH-1100N-400W	5	0.4	11	3
TH-1100N-450W	5	0.4	9	2
TH-1100N-500W	10	0.4	18	2
TH-1300N-500E	5	0.3	4	1
TH-1300N-450E	5	0.2	5	1
TH-1300N-400E	5	0.2	4	1
TH-1300N-350E	5	0.3	3	1
TH-1300N-300E	10	0.4	4	2
TH-1300N-250E	5	0.4	2	1
TH-1300N-200E	5	0.3	4	2
TH-1300N-150E	5	0.3	3	2
TH-1300N-100E	10	0.2	2	1
TH-1300N-050E	5	0.2	3	1
TH-1300N-150W	5	0.3	6	1
TH-1300N-200W	5	0.2	7	1
TH-1300N-250W	5	1.0	38	1
TH-1300N-300W	10	0.2	14	2
TH-1300N-350W	5	0.3	13	1

***SAMPLE TH1100N-175W COULD NOT BE SALVAGED.**

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TELEX: VIA U.S.A. 7601067 • FAX (604) 980-9621

TIMMINS OFFICE:
33 EAST IROQUOIS ROAD
P.O. BOX 867
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

Geochemical Analysis Certificate

OV-0308-SG5

Company: FAIRBANK ENGINEERING LTD
Project: JOE DANDY
Attn: AL PRATT

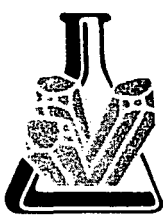
Date: APR-12-90
Copy 1. FAIRBANK ENGRG., VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 30 SOIL samples submitted APR-06-90 by A. PRATT.

Sample Number	AU-WET PPB	AG PPM	AS PPM	SB PPM	AU-FIRE PPB
TH-1300N-450W	10	0.8	21	1	
TH-1300N-500W	5	0.6	14	1	
TH-400N-025W	10	0.5	15	1	
TH-400N-050W	5	0.2	5	1	
TH-400N-075W	5	0.4	9	1	
TH-400N-100W	5	0.3	11	1	
TH-400N-125W	5	0.3	9	2	
TH-400N-150W	5	0.3	9	2	
TH-400N-225W	5	0.2	10	1	
TH-400N-250W	5	0.4	17	1	
TH-400N-275W	10	0.3	30	1	
TH-400N-300W	10	0.3	14	3	
TH-400N-325W	5	0.4	10	1	
TH-400N-350W	5	0.4	8	2	
TH-400N-375W	5	0.3	7	5	
TH-400N-400W	10	0.4	6	1	
TH-400N-425W	5	0.5	12	1	
TH-400N-450W	10	0.3	9	2	
TH-400N-475W	5	0.3	11	1	
TH-400N-500W	5	0.2	9	1	
TH-400N-125E	5	0.4	7	1	
TH-400N-150E	5	0.3	8	1	
TH-400N-300E	5	0.2	6	3	
TH-400N-325E	130	1.9	22	3	920
TH-400N-350E	5	0.2	5	1	
TH-400N-425E	5	0.3	7	2	
TH-400N-475E	5	0.2	6	1	
TH-400N-500E	5	0.4	6	1	
TH-500N-175E	5	0.4	8	1	
TH-500N-225E	5	0.4	9	3	

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TELEPHONE: (705) 264-9996

Geochemical Analysis Certificate

OV-0308-SG6

Company: **FAIRBANK ENGINEERING LTD**
Project: **JOE DANDY**
Attn: **AL PRATT**

Date: **APR-12-90**
Copy 1. FAIRBANK ENGRG., VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 30 SOIL samples submitted APR-06-90 by A.PRATT.

Sample Number	AU-WET PPB	AG PPM	AS PPM	SB PPM
TH-500N-275E	5	0.4	13	2
TH-500N-325E	10	0.4	8	1
TH-500N-425E	5	0.3	11	1
TH-500N-475E	5	0.2	9	1
TH-600N-175W	5	0.5	15	1
TH-600N-225W	5	0.3	6	3
TH-600N-325W	5	0.2	9	1
TH-600N-375W	10	0.4	12	1
TH-600N-425W	5	0.4	11	1
TH-600N-475W	5	0.4	13	1
TH-600N-325E	5	0.6	22	1
TH-600N-375E	20	0.9	33	2
TH-600N-475E	10	0.3	6	3
TH-900N-025E	5	0.3	7	1
TH-900N-075E	5	0.3	6	1
TH-900N-125E	5	0.4	14	2
TH-900N-175E	10	0.4	12	1
TH-900N-225E	5	0.3	11	1
TH-900N-275E	5	0.3	11	2
TH-900N-325E	5	0.3	13	1
TH-900N-375E	10	0.2	8	1
TH-900N-425E	5	0.3	19	1
TH-900N-475E	5	0.3	5	1
TH-900N-025W	5	0.4	12	2
TH-900N-075W	5	0.4	8	1
TH-900N-125W	15	0.5	12	1
TH-900N-175W	10	0.4	7	1
TH-900N-225W	5	0.3	7	1
TH-900N-275W	5	0.3	7	1
TH-900N-325W	5	0.3	5	2

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P.O. BOX 867
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

Geochemical Analysis Certificate

OV-0308-SG7

Company: **FAIRBANK ENGINEERING LTD**
Project: **JOE DANDY**
Attn: **AL PRATT**

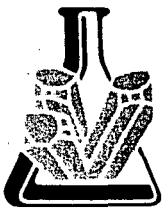
Date: **APR-12-90**
Copy 1. FAIRBANK ENGRS., VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 30 SOIL samples submitted APR-06-90 by A.PRATT.

Sample Number	AU-WET PFB	AG PPM	AS PPM	SB PPM
TH-900N-375W	5	0.3	8	3
TH-900N-425W	5	0.4	6	1
TH-900N-475W	10	0.4	7	1
SM-975N-325W	10	0.3	6	1
SM-975N-350W	5	0.3	5	2
SM-975N-375W	5	0.4	6	1
SM-975N-400W	5	0.4	5	1
SM-975N-425W	5	0.3	5	1
SM-975N-450W	5	0.3	5	1
SM-975N-475W	5	0.4	5	1
SM-975N-500W	5	0.3	6	1
TH-1000N-000E	10	0.4	7	3
TH-1000N-025E	10	0.4	8	1
TH-1000N-050E	5	0.4	8	1
TH-1000N-075E	5	0.2	8	1
TH-1000N-100E	5	0.3	10	1
TH-1000N-125E	5	0.3	9	1
TH-1000N-150E	5	0.4	14	2
TH-1000N-200E	5	0.7	22	1
TH-1000N-225E	5	0.5	13	3
TH-1000N-250E	5	0.4	6	2
TH-1000N-300E	10	0.3	5	2
TH-1000N-325E	5	0.3	4	1
TH-1000N-350E	5	0.2	2	3
TH-1000N-375E	5	0.3	4	3
TH-1000N-400E	10	0.2	4	1
TH-1000N-425E	5	0.3	4	2
TH-1000N-450E	5	0.2	3	1
TH-1000N-475E	5	0.3	4	1
TH-1000N-500E	5	0.4	5	1

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TIMMINS OFFICE:
33 EAST IROQUOIS ROAD
P.O. BOX 867
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

Geochemical Analysis Certificate

OV-0308-SG8

Company: **FAIRBANK ENGINEERING LTD**
Project: **JOE DANDY**
Attn: **AL PRATT**

Date: **APR-12-90**
Copy 1. FAIRBANK ENGRG., VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 30 SOIL samples submitted APR-06-90 by A. PRATT.

Sample Number	AU-WET PPB	AG PPM	AS PPM	SB PPM
TH-1000N-025W	5	0.5	6	1
TH-1000N-050W	10	0.3	6	1
TH-1000N-075W	5	0.3	10	1
TH-1000N-100W	5	0.3	8	2
TH-1000N-125W	5	0.2	13	1
TH-1000N-150W	5	0.3	5	1
TH-1000N-175W	5	0.3	7	2
TH-1000N-200W	5	0.2	6	3
TH-1000N-225W	5	0.2	4	1
TH-1000N-250W	5	0.2	4	1
TH-1000N-275W	5	0.2	5	1
TH-1000N-300W	5	0.3	4	1
TH-1000N-325W	5	0.4	5	1
TH-1000N-350W	5	0.5	6	1
TH-1000N-375W	5	0.3	5	3
TH-1000N-400W	10	0.2	6	1
TH-1000N-425W	5	0.2	7	2
TH-1000N-475W	10	0.3	6	1
TH-1000N-445W	5	0.4	6	3
TH-1000N-450W	5	0.3	8	*
TH-1000N-500W	5	0.4	9	1
TH-1100N-025W	5	0.3	6	1
TH-1100N-075W	5	0.2	7	1
TH-1100N-125W	10	0.3	11	1
TH-1100N-175W	5	0.4	10	1
TH-1100N-225W	5	0.2	7	1
TH-1100N-325W	5	0.2	9	1
TH-1100N-375W	5	0.3	10	1
TH-1100N-425W	5	0.3	6	1
TH-1100N-475W	5	0.4	7	1

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TELEPHONE: (705) 264-9996

Geochemical Analysis Certificate

OV-0308-SG9

Company: FAIRBANK ENGINEERING LTD
Project: JOE DANDY
Attn: AL PRATT

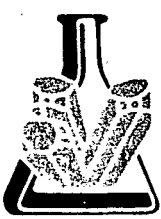
Date: APR-12-90
Copy 1. FAIRBANK ENGRG., VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 30 SOIL samples submitted APR-06-90 by A. PRATT.

Sample Number	AU-WET PPB	AG PPM	AS PPM	SB PPM
TH-1100N-025E	10	0.4	6	3
TH-1100N-075E	5	0.4	5	1
TH-1100N-125E	5	0.5	7	4
TH-1100N-175E	5	0.4	5	1
TH-1100N-225E	5	0.3	4	1
TH-1100N-275E	5	0.4	5	1
TH-1100N-325E	10	0.2	4	2
TH-1100N-375E	5	0.3	5	1
TH-1100N-425E	5	0.4	4	1
TH-1100N-475E	5	0.4	6	1
TH-1200N-000E	5	0.7	10	1
TH-1200N-025E	10	0.3	7	1
TH-1200N-050E	5	0.3	5	1
TH-1200N-075E	20	0.3	7	2
TH-1200N-100E	5	0.3	5	1
TH-1200N-125E	5	0.3	4	1
TH-1200N-150E	5	0.4	5	1
TH-1200N-175E	5	0.2	4	2
TH-1200N-200E	5	0.3	5	2
TH-1200N-225E	5	0.4	5	1
TH-1200N-250E	10	0.4	6	1
TH-1200N-275E	5	0.4	5	1
TH-1200N-300E	5	0.4	5	1
TH-1200N-325E	10	0.2	3	1
TH-1200N-350E	5	0.2	6	3
TH-1200N-375E	5	0.4	4	1
TH-1200N-400E	5	0.5	4	1
TH-1200N-425E	5	0.5	5	1
TH-1200N-450E	5	0.4	6	1
TH-1200N-475E	10	0.3	3	1

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TIMMINS OFFICE:
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P.O. BOX 867
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

Geochemical Analysis Certificate

OV-0308-SG10

Company: **FAIRBANK ENGINEERING LTD**
Project: **JOE DANDY**
Attn: **AL PRATT**

Date: **APR-12-90**
Copy 1. FAIRBANK ENGRG., VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 30 SOIL samples submitted APR-06-90 by A. PRATT.

Sample Number	AU-WET PPB	AG PPM	AS PPM	SB PPM
TH-1200N-500E	5	0.5	8	1
TH-1200N-025W	5	0.3	7	2
TH-1200N-050W	10	0.3	9	1
TH-1200N-075W	5	0.4	22	4
TH-1200N-100W	5	0.2	8	1
TH-1200N-125W	5	0.2	13	1
TH-1200N-150W	5	0.4	12	3
TH-1200N-175W	5	0.3	21	1
TH-1200N-200W	5	0.4	16	1
TH-1200N-225W	5	0.2	8	1
TH-1200N-250W	5	0.4	7	2
TH-1200N-275W	10	0.2	10	1
TH-1200N-300W	5	0.2	9	1
TH-1200N-325W	5	0.2	11	1
TH-1200N-350W	5	0.3	17	2
TH-1200N-375W	5	0.5	17	1
TH-1200N-400W	5	0.4	8	1
TH-1200N-425W	10	0.5	12	1
TH-1200N-450W	5	0.3	10	1
TH-1200N-475W	5	0.2	9	1
TH-1200N-500W	5	0.3	13	2
TH-1300N-025W	5	0.2	9	1
TH-1300N-175W	10	0.3	6	1
TH-1300N-225W	5	0.4	9	2
TH-1300N-275W	5	0.5	18	1
TH-1300N-325W	5	0.4	17	2
TH-1300N-425W	5	0.3	12	2
TH-1300N-025E	5	0.2	4	1
TH-1300N-075E	5	0.3	4	1
TH-1300N-125E	10	0.3	4	1

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TELEPHONE: (705) 264-9996

Geochemical Analysis Certificate

OV-0308-SG11

Company: **FAIRBANK ENGINEERING LTD**
Project: **JOE DANDY**
Attn: **AL PRATT**

Date: **APR-12-90**
Copy 1. FAIRBANK ENGRG., VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 30 SOIL samples submitted APR-06-90 by A.PRATT.

Sample Number	AU-WET PPB	AG PPM	AS PPM	SB PPM
TH-1300N-150E-A	10	0.4	6	1
TH-1300N-175E	15	0.2	6	3
TH-1300N-225E	5	0.4	12	1
TH-1300N-275E	5	0.2	6	1
TH-1300N-325E	5	0.2	5	1
TH-1300N-375E	5	0.2	4	1
TH-1300N-425E	5	0.3	6	1
TH-1300N-475E	5	0.3	6	1
TH-1400N-025E	10	0.3	5	3
TH-1400N-050E	10	0.1	3	1
TH-1400N-075E	5	0.2	4	1
TH-1400N-100E	5	0.3	6	1
TH-1400N-125E	5	0.2	10	1
TH-1400N-150E	5	0.6	15	1
TH-1400N-175E	5	0.3	5	1
TH-1400N-200E	10	0.7	14	1
TH-1400N-225E	5	0.3	6	4
TH-1400N-250E	20	0.2	4	1
TH-1400N-275E	5	0.4	5	1
TH-1400N-300E	10	0.3	5	1
TH-1400N-325E	10	0.3	5	2
TH-1400N-350E	5	0.3	5	1
TH-1400N-375E	95	0.4	4	1
TH-1400N-400E	5	0.4	4	1
TH-1400N-425E	5	0.5	7	5
TH-1400N-450E	5	0.2	5	1
TH-1400N-475E	5	0.2	4	1
TH-1400N-500E	10	0.2	10	1
TH-1400N-025W	5	0.4	7	1
TH-1400N-050W	5	0.3	5	1

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TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

Geochemical Analysis Certificate

OV-0308-SG12

Company: **FAIRBANK ENGINEERING LTD**
Project: **JOE DANDY**
Attn: **AL PRATT**

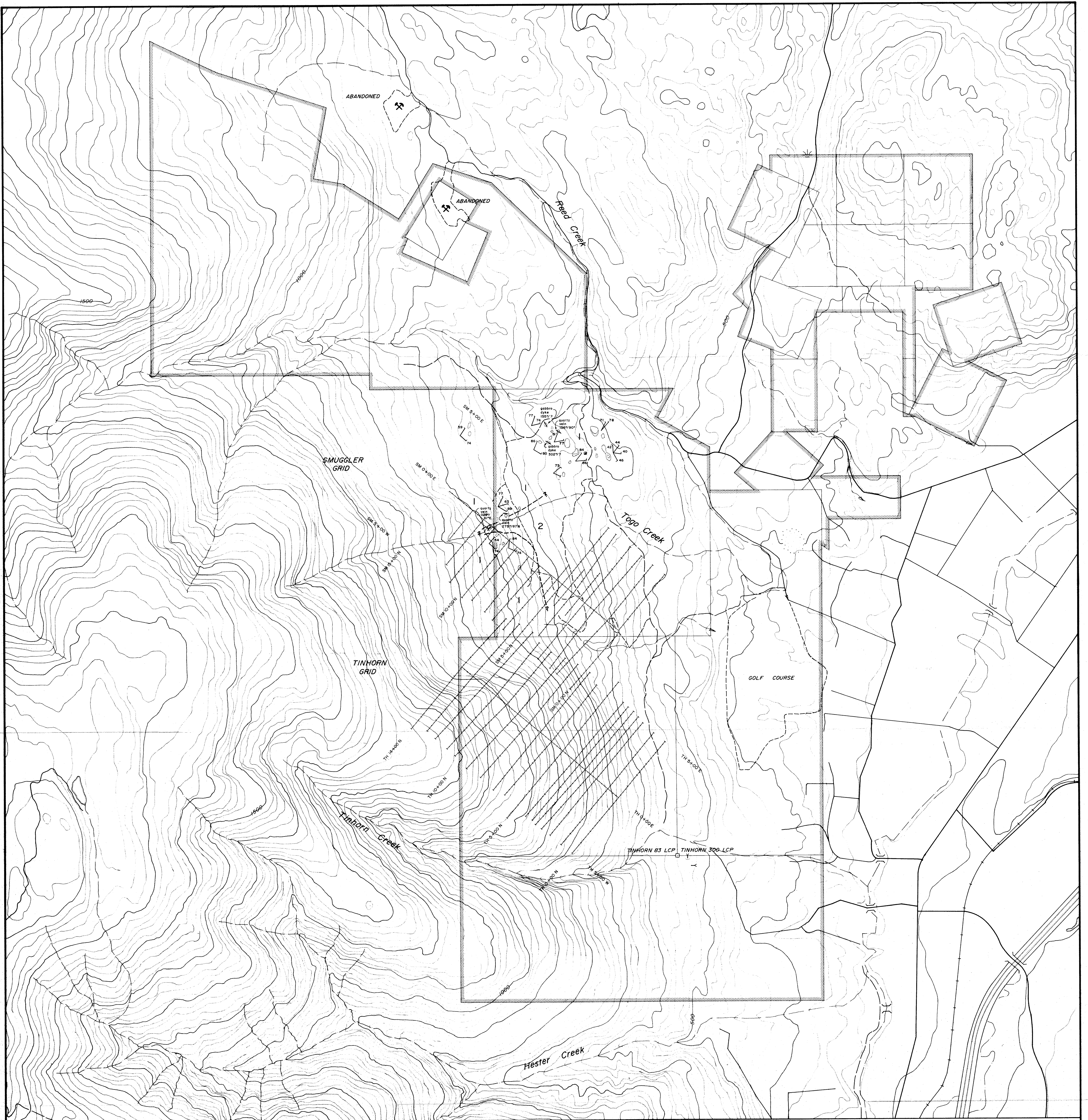
Date: **APR-12-90**
Copy 1. **FAIRBANK ENGRG., VANCOUVER, B.C.**

We hereby certify the following Geochemical Analysis of 19 SOIL samples submitted APR-06-90 by A.PRATT.

Sample Number	AU-WET PPB	AG PPM	AS PPM	SB PPM
TH-1400N-075W	10	0.4	3	1
TH-1400N-100W	5	0.1	1	1
TH-1400N-125W	5	0.4	10	2
TH-1400N-150W	5	0.5	6	3
TH-1400N-175W	5	0.2	10	1
TH-1400N-200W	5	0.3	8	1
TH-1400N-225W	5	0.8	40	2
TH-1400N-250W	5	0.5	14	2
TH-1400N-275W	5	0.4	10	4
TH-1400N-300W	10	0.4	9	1
TH-1400N-325W	5	0.3	7	1
TH-1400N-350W	5	0.2	8	1
TH-1400N-375W	10	0.2	7	2
TH-1400N-400W	5	0.3	7	1
TH-1400N-425W	5	0.2	6	1
TH-1400N-450W	5	0.3	12	1
TH-1400N-475W	5	0.2	6	1
TH-1400N-500W	5	0.3	9	1
TH-1400N-000E/W	5	0.3	3	5

Certified by

MIN-EN LABORATORIES

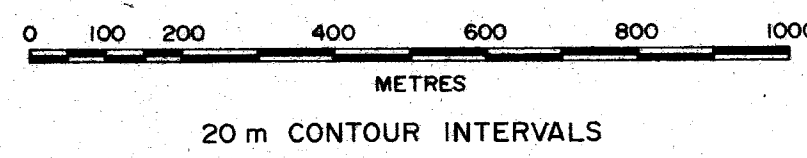


LEGEND

- Roads
- Creek
- Swamp
- LCP Legal Corner Post (located in field)
- Claim Lines & Property Boundary
- Sampling Grid
- Adit
- Shaft

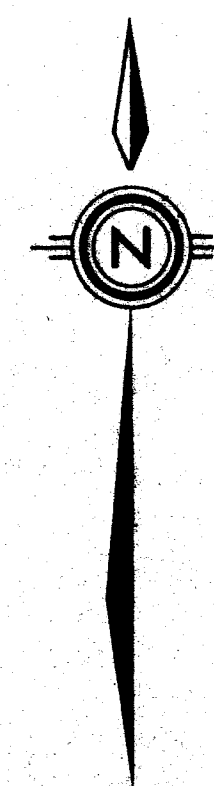
LITHOLOGIES

- 1 INTRUSIVE
Granodiorite/Granite
- 2 KOBANU GROUP
consisting of Quartzite, Phyllite,
Schist, Greenstone & Marble
- Outcrop
- Joint: strike, dip
- Geologic Contact: inferred

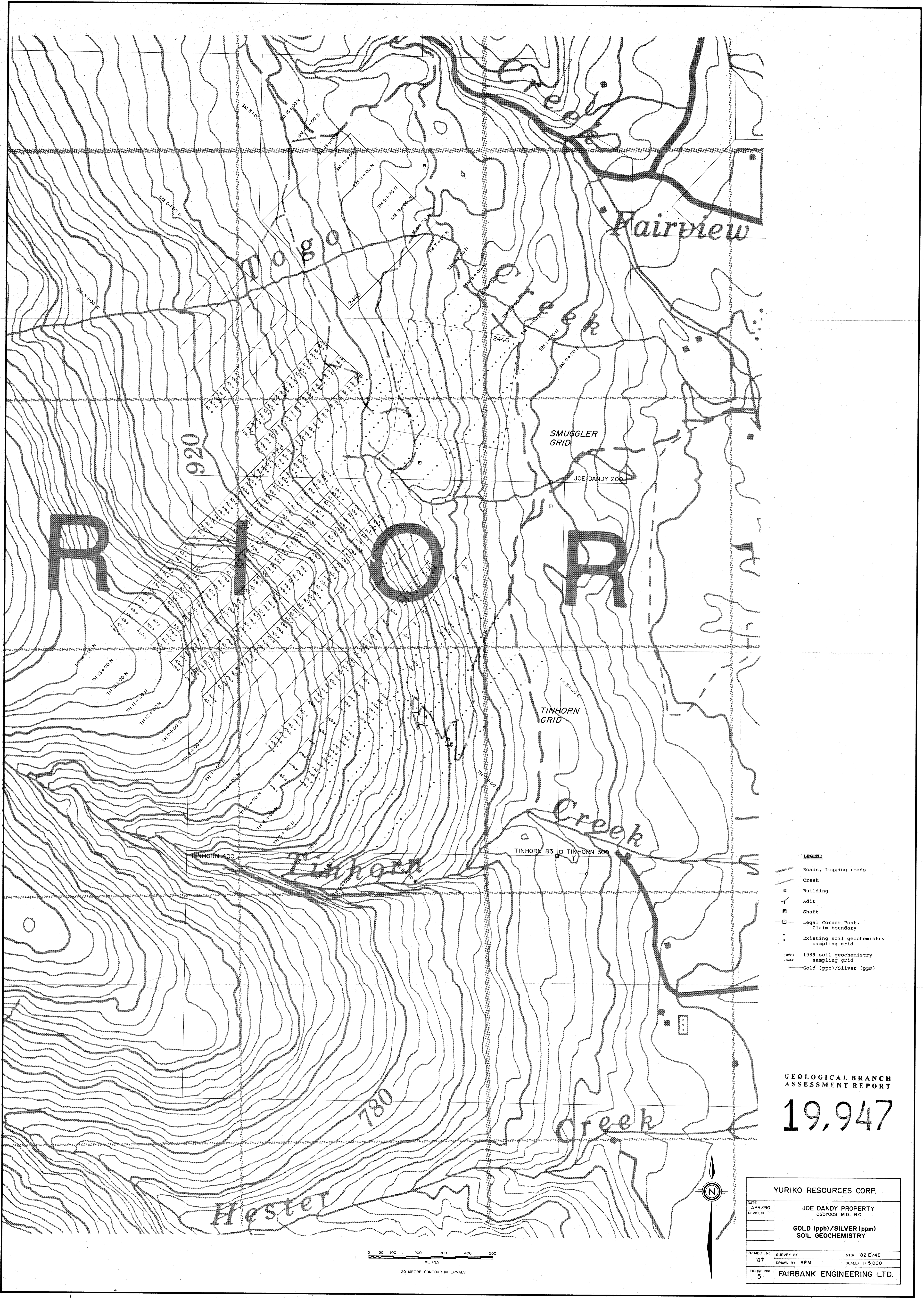


GEOLOGICAL BRANCH
ASSESSMENT REPORT

19,947



YURIKO RESOURCES CORP.	
DATE: JAN/90	JOE DANDY PROPERTY 0507005 M.D., B.C.
REVISION:	
SUMMARY MAP GRIDS & PROPERTY GEOLOGY	
PROJECT No. 187	SURVEY BY: NTS: 82 E/4E
FIGURE No. 4	DRAWN BY: BEM SCALE 1:10000
FAIRBANK ENGINEERING LTD.	



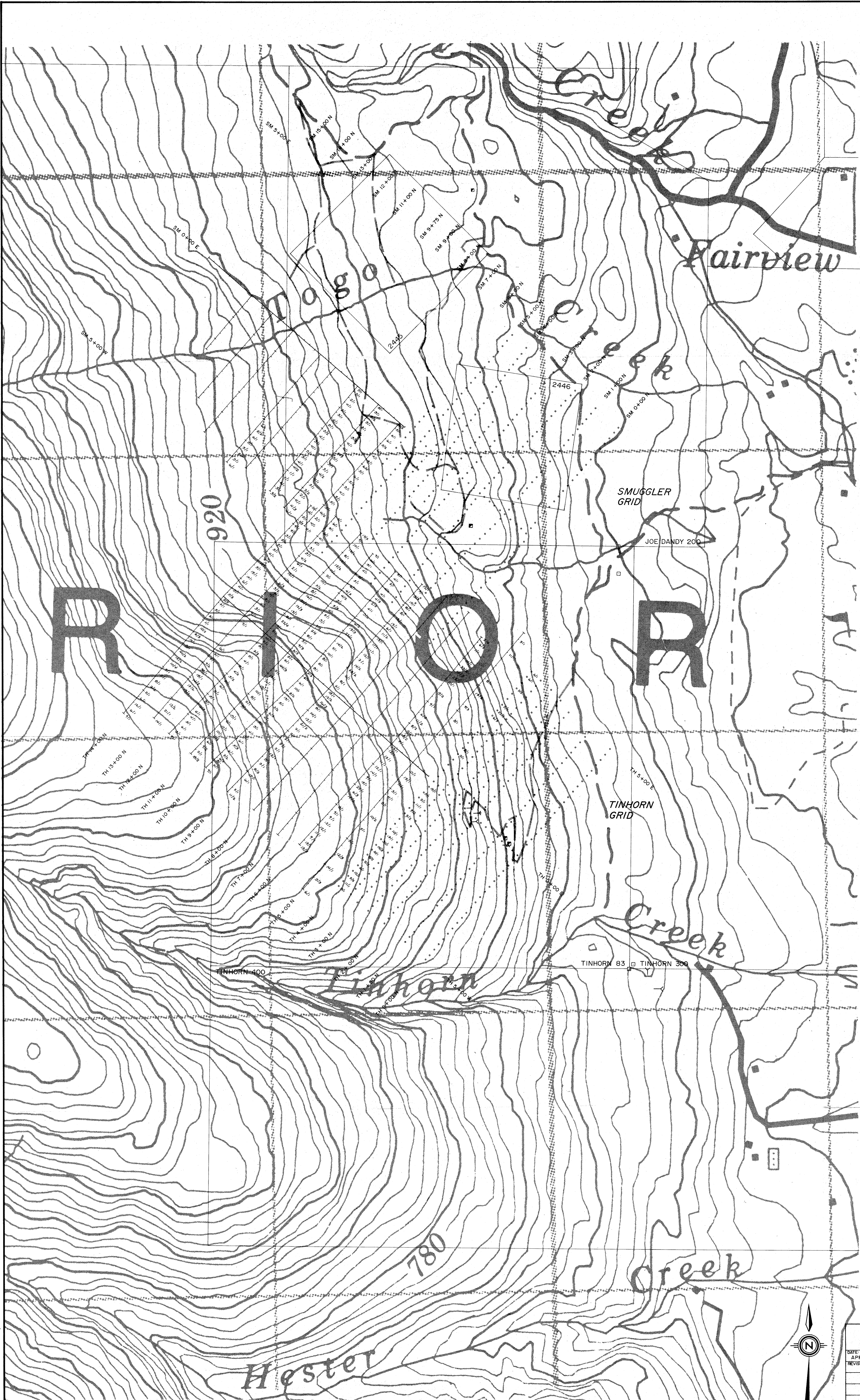
- LEGEND**
- Roads, Logging roads
 - ~ Creek
 - Building
 - Adit
 - Shaft
 - Legal Corner Post, Claim boundary
 - Existing soil geochemistry sampling grid
 - 1989 soil geochemistry sampling grid
 - Gold (ppb)/Silver (ppm)

GEOLOGICAL BRANCH
ASSESSMENT REPORT

19,947

YURIKO RESOURCES CORP.	
DATE: APR/90	JOE DANDY PROPERTY OSYOOS M.D., B.C.
REVISED:	GOLD (ppb)/SILVER (ppm) SOIL GEOCHEMISTRY
PROJECT No: 187	SURVEY BY: NTS 82 E/4E
FIGURE No: 5	DRAWN BY: BEM SCALE: 1:5 000
	FAIRBANK ENGINEERING LTD.

0 50 100 200 300 400 500
METRES
20 METRE CONTOUR INTERVALS



- LEGEND**
- Roads, Logging roads
 - Creek
 - Building
 - ⊥ Adit
 - Shaft
 - Legal Corner Post, Claim boundary
 - Existing soil geochemistry sampling grid
 - 1989 soil geochemistry sampling grid
 - Arsenic (ppm)/Antimony (ppm)

ECOLOGICAL BRANCH
ASSESSMENT REPORT
19,947

YURIKO RESOURCES CORP.	
DATE: APR/90	JOE DANDY PROPERTY
REVISED:	OS07005 M.D., B.C.
ARSENIC (ppm)/ANTIMONY (ppm)	
SOIL GEOCHEMISTRY	
PROJECT No: 187	SURVEY BY: NTS 82 E/4E
FIGURE No: 6	DRAWN BY: BEM SCALE 1:5000
FAIRBANK ENGINEERING LTD.	

0 50 100 200 300 400 500
METRES
20 METRE CONTOUR INTERVALS