ASSESSMENT REPORT
SOIL GEOCHEMISTRY
TOM 2 & TOM 3 CLAIMS
TOMMY JACK CREEK PROPERTY

OMINECA MINING DIVISION
NTS 94 D/04E

NORANDA EXPLORATION COMPANY, LIMITED
(no personal liability)
By: Del Myers, Project Geologist
April, 1987

4/88

19091

87-266-16062

ASSESSMENT REPORT

SOIL GEOCHEMISTRY

TOMMY JACK CREEK PROPERTY

OMINECA MINING DIVISION
BRITISH COLUMBIA

NTS 94 D/ 4E

Latitude 56 deg. 07.4' N
Longitude 127 deg. 30.5' W

Work Preformed:
FEBRUARY - APRIL 1987

Owner/Operator: NORANDA EXPLORATION COMPANY, LIMITED
(NO PERSONAL LIABILITY)
3A-1750 Quinn Street
Prince George, B.C.
V2N 1X3

Report by:
Del Myers
Project Geologist

April 1987

TABLE OF CONTENTS

LIST OF FIGURES

LIST OF TABLES

SUMMARY

The Tommy Jack Creek property is underlain by Jurassic Bowser Lake Group sandstones, siltstones, and shales which are cut by mineralized, quartz-carbonate veinlet stockworks.

Noranda undertook in 1985 and 1986 a program of soil and rock geochemistry, magnetic surveying, geological mapping, and diamond drilling on the property.

Additional Au analyses of 1985 soil samples were done in early 1987 to help define drill targets for 1987. A small selection of soil samples was analysed by ICP methods for 30 elements to test for additional pathfinder elements.

There are more and stronger gold soil geochemical anomalies to grid south of 1986 drilling which suggests that gold grades of mineralization may be higher there.

INTRODUCTION

PURPOSE

Additional 1985 soil samples (B-horizon) were analysed for gold to help define soil geochemical anomalies to drill in 1987 and for 30 elements by ICP to test for additional pathfinder elements.

LOCATION AND ACCESS

The Tommy Jack Creek property is located 95 km N of Hazelton, B.C. (Figure 1). The property lies along Tommy Jack Creek and covers its confluence with the Sicintine River. The Sicintine River is a tributary of the Skeena River.

The Old Camp at 10,000 mN, 10,000 mE of the property grid is 750 m above sea level. The baseline climbs to almost 1200 m within 2.4 km and the nearby height on land is 1760 m a.s.l. Tree line in the area is about 1500 m a.s.l.

Access to the property is by helicopter from Smithers, B.C., about 1 hour flying time away. In the past, float planes have landed on Sicintine Lake 25 km to the SE. The nearest runway is near Mosque Mountain on the BC Rail right of way some 30 km N of the property.

The nearest road to the property is a logging road (Salmon River Road) along the east side of the Skeena River. In 1986 a drill and camp supplies were slung from a clearcut on the road 48 km N of the junction with the paved road to Kispiox. The distance from the clearcut to the property is about 50 km.

PROPERTY

The property consists of 11 claims containing 115 units (about 2875 hectares). Five of these claims were acquired by option from Joyce Warren of Smithers, B.C. The remaining six claims were staked by Noranda Exploration.

For purposes of filing assessment work, all the claims have been put into one of two groups:

the Tom group and
the Tommy Jack group.

The claims are shown in Figure 2 and are listed in Table 1.

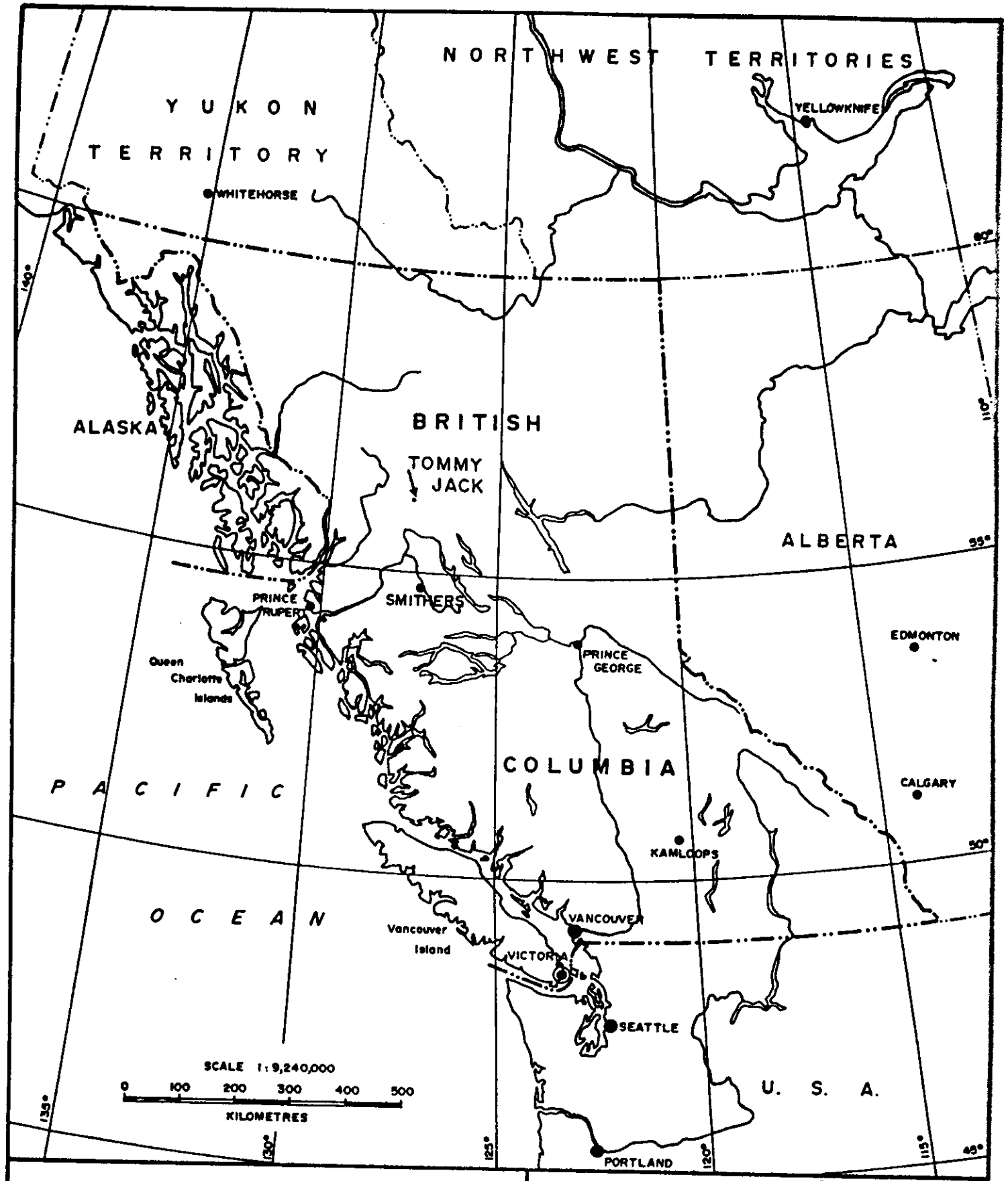


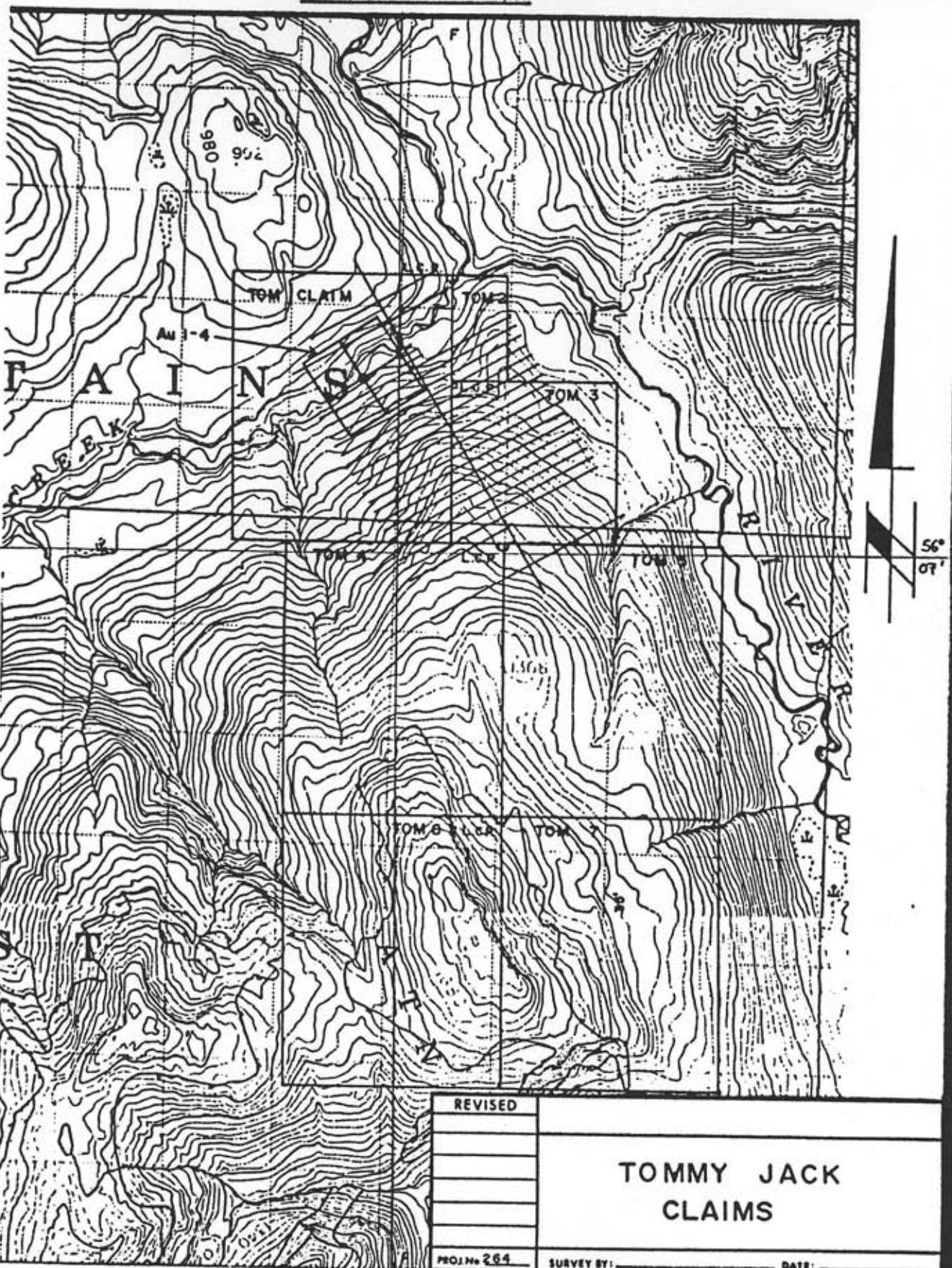
Fig. 1

noranda

NORANDA EXPLORATION COMPANY LTD.
Office: Prince George, B.C.

MAP TITLE	LOCATION MAP
PROJECT TITLE	TOMMY JACK PROPERTY
PROJECT NO. 240	SCALE 1:9,240,000

LOCATION MAP



REVISED	
PROJ. No. 264	SURVEY BY: _____ DATE: _____
N.T.S. 94 D/4	DRAWN BY: S.K.B. SCALE: 1:50,000
DWG. No. Fig. 2	

TOMMY JACK CLAIMS

NORANDA EXPLORATION

OFFICE: PRINCE GEORGE, B.C.

Table 1. List of claims, Tommy Jack , Omineca M. D.

NTS 94 D 04E

Claim Name	Rec.No.	Rec.Date	Type	Units	Group	Owner
Au 1	6256	6/12/84	2P	1	Tom 5/10/85	Joyce Warren
Au 2	6257	6/12/84	2P	1	Tom 5/10/85	Joyce Warren
Au 3	6258	6/12/84	2P	1	Tom 5/10/85	Joyce Warren
Au 4	6259	6/12/84	2P	1	Tom 5/10/85	Joyce Warren
Tom	6726	10/24/84	MG	20	Tom 5/10/85	Joyce Warren
Tom 2	7303	9/05/85	MG	2	Tommy Jack 9/05/86	Noranda
Tom 3	7304	9/05/85	MG	9	Tommy Jack 9/05/86	Noranda
Tom 4	7578	5/01/86	MG	20	Tom 10/30/86	Noranda
Tom 5	7579	5/01/86	MG	20	Tommy Jack 9/05/86	Noranda
Tom 6	7580	5/01/86	MG	20	Tom 10/30/86	Noranda
Tom 7	7581	5/01/86	MG	20	Tom 10/30/86	Noranda
				115		

April 15, 1987

This report describes work done on both claim groups, however costs are claimed and work is applied only to the Tommy Jack group of claims.

REGIONAL GEOLOGY

The Tommy Jack Creek property is underlain by Bowser Lake Group clastic sediment of Middle to Late Jurassic age (Tipper and Richards, 1976). The sediments regionally are flat lying or gently dipping. They fill a sedimentary basin called the Bowser Basin. The property lies near the eastern limit of the Bowser Basin within the Intermontaine Belt of the Canadian Cordillera.

About 10 to 15 km south of the property, these sediments are intruded by early Tertiary intrusives known as the Bulkley Intrusives. These rocks, predominantly quartz monzonites, granodiorites, and quartz diorites form the core of the Atna Range.

There are no 1:250,000 or more detailed geology maps for the area of the property.

PREVIOUS WORK

The first showings in the area were probably discovered by an Indian trapper, Tommy Jack, from Hazelton.

Prospectors Bert Goodrich and Bert Lloyd worked on the property in the 1930's or 1940's with the backing of Maynard Kerr of Vanderhoof. The property was relocated by Kerr and Glen Huck in 1962 or 1963 (Thompson, personal comm.)

The only work published on the Tommy Jack Creek property was by Canex Aerial Exploration in 1964. Canex did soil geochemistry over a 4800 x 5400 ft. (1460 x 1650 m) area and found extensive Ag, Pb, and As anomalies (Thompson, 1964). Some trenching was done in 1964 on a massive galena vein somewhere on the mountainside. Placer was looking for Cu or Mo deposits and dropped their option on the property.

In December 1968, 3 short holes were diamond drilled near the Old Camp on Tommy Jack Creek (Thompson, personal comm.). Results of the trenching and diamond drilling are not available.

There is no record of other work on the property until 1984 when the property was examined and optioned by Noranda. (Myers, 1985).

A program of prospecting, geological mapping, and soil and silt geochemistry was conducted in 1985 by Noranda on a grid covering an area 2.0 x 3.0 km (Dale and MacArthur, 1985).

In 1986 Noranda did a magnetometer survey of the grid and very limited silt and rock geochemical work. Ten diamond drill holes were drilled to test geochemical anomalies on the northern part of the grid (Myers, 1986,1987).

WORK UNDERTAKEN

B-horizon soil samples taken in 1985 were analysed early in 1987 by the Noranda geochemical laboratory in Vancouver. The samples were originally collected with a grub hoe from depths of 10 to 40 cm (Dale and MacArthur, 1985). 695 samples were analysed by aqua regia digestion - MIBK extraction - AA analysis for Au (Appendix 3). These samples were from 12 grid lines from L8000 mN to L9200 mN. These results complete coverage of the southern part of the grid for Au.

Of these 695 samples, 543 samples are from the Tom 2 and 3 claims of the Tommy Jack group.

In addition, 14 soil samples from L8600N were analysed in March 1987 by ICP methods at Acme Analytical Laboratories in Vancouver for 30 elements. These samples cover one silver anomaly and three lead and three gold anomalies.

All 14 of these samples are from the Tom 3 claim of the Tommy Jack group.

RESULTS

Soil gold analyses are plotted on Figure 3, listed in Appendix 4, and summarized by two histograms, Figures 4 and 5.

Based on personal experience and on the statistics of Figure 5, anomalous Au values were contoured at 30, 100, and 300 ppb levels corresponding to log normal standard deviations of about 1s, 3s, and 5s, on Figure 3. The histogram in Figure 4 gives a better picture of the distribution on Au values, but the log normal statistics of Figure 5 are more appropriate for the distribution of Au values for all 1984 and 1985 samples.

The distribution of anomalous gold values as shown by figure 3 is rather spotty. This probably reflects:

1. sampling problems associated with low Au values in most geologic materials,
2. variations in the development of soils (residual and transported) in glaciated areas, and
3. the probable erratic distribution of Au values in bedrock mineralization.

Contours were drawn with continuity biased both downslope and parallel to the baseline which is thought to parallel the strike of the veinlet systems.

A total of 17 very strong (Au=>300 ppb) anomalies are shown. Of these only one consists of more than one sample.

The selection on drill targets in 1987 should be based on the association of Pb, Ag, and Au soil geochemical anomalies with priority being given to strong Pb anomalies first, and to strong Ag anomalies last.

1986 drill holes have been plotted onto Figure 3 and it should be noted that holes 4 and 5 had the best mineralization.

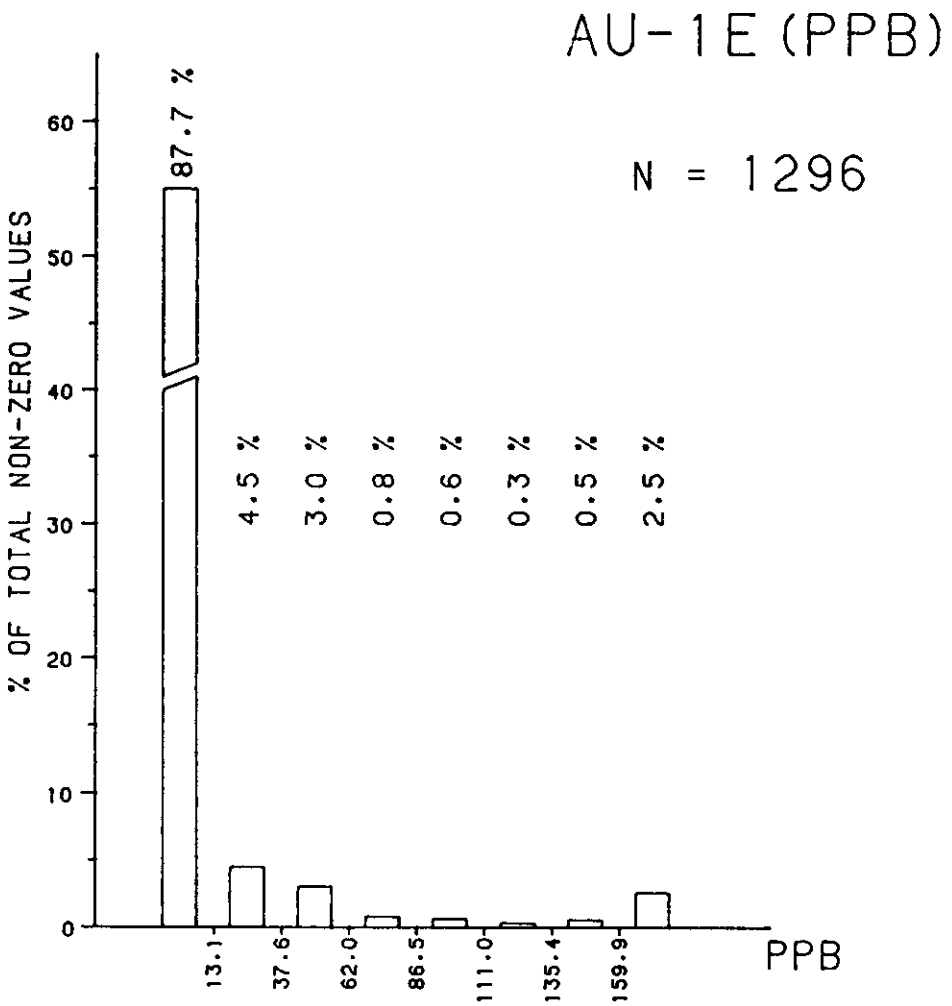
The 30 elements analysed by ICP in 14 soils from L8600 mN can be divided into several groups by their range of values in the fourteen samples, as follows:

elements with 10x range of values or more:
Pb, Zn, Ag, Ni, Co, Mn, Sr, Cd, V, Ca, Cr, Mg, Ba, Al

elements with more than 2x to less than 10x range of values:
Mo, Cu, Fe, As, Th, Sb, P, La, Ti, B, K, W

elements with 2x of less range of values:
U, Bi, Na

FIGURE 4. Tommy Jack Creek property soils



SUMMARY STATISTICS FOR AU (1E)

STATISTICS BASED ON 1296 VALUES

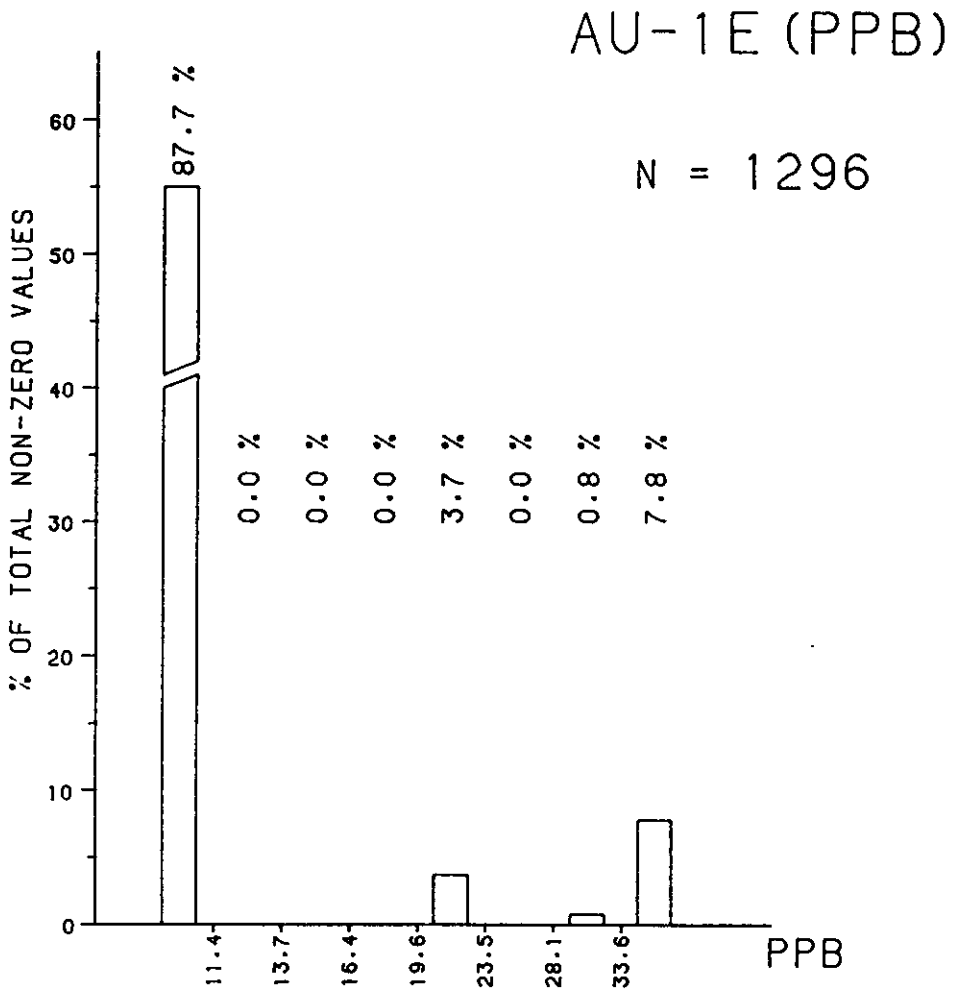
LOW VALUE: 10 HIGH VALUE: 2200

ARITHMETIC STATISTICS:

MEAN = 25.36	STD. DEV. = 97.82
MEAN-1S = -72.46	MEAN+1S = 123.18
MEAN-2S = -170.28	MEAN+2S = 221.01

ALL VALUES IN PPB

FIGURE 5. Tommy Jack Creek property soils



SUMMARY STATISTICS FOR AU (1E)

STATISTICS BASED ON 1296 VALUES

LOW VALUE: 10 HIGH VALUE: 2200

LOGARITHMIC STATISTICS:

MEAN = 12.52 STD. DEV. = 0.312 (LOG)

MEAN-1S = 6.10 MEAN+1S = 25.68

MEAN-2S = 2.98 MEAN+2S = 52.67

ALL VALUES IN PPB

elements of indeterminate range:
Au (not detected by ICP in all but one sample)

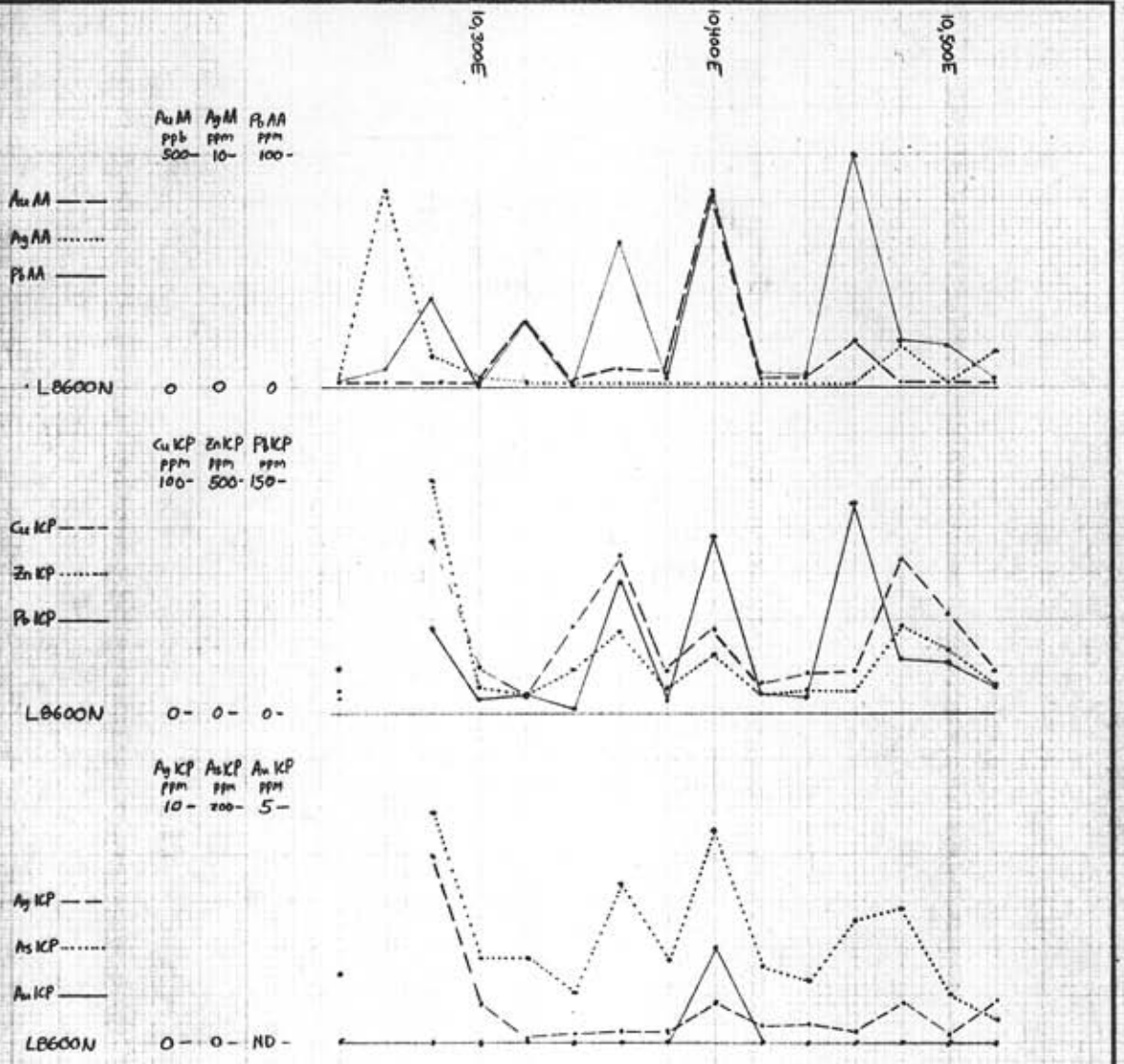
The elements in the first group (large variation) should generally give the best anomaly definition. Those that appear to be correlated with Au, Ag, and Pb by AA analysis are:

correlated with Au (by AA):
Pb, Ag, As, Au (by ICP)

correlated with Ag (by AA):
Mo, Zn, Ag (by ICP), Mn, Th, Sr, Cd, Cu, P, La, Ba

correlated with Pb (by AA):
Pb (by ICP), As, Au

Without going into statistical analysis such as correlation, cluster, or factor analysis, it appears at this time that Pb, As, Au, and Ag are the best elements to look at by ICP analysis and probably by AA analysis for defining drill targets. These elements are plotted on Figure 6 which show some of the element profiles.



REVISED	TOMMY JACK
	Element Profiles B-Horizon Soils
PROJ. No. 264	SURVEY BY: DEM Jr. DATE: APR. 87
N.T.S. 94D/9E	DRAWN BY: SCALE: 1:2000
DWG. No. Fig. 6	NORANDA EXPLORATION OFFICE: Prince George

CONCLUSIONS

The distribution of Au values in samples analysed by AA methods appears to be log normal. The population of log Au values in Tommy Jack soils has a mean value of 1.10 (12.5 ppb) and a standard deviation of 0.31. The lowest value is 10 ppb and the highest value is 2200 ppb.

The geographic distribution of anomalous Au values (30 ppb and above) is very spotty. There are 17 very strong anomalies (300 ppb) of which only one is defined by more than 1 sample. Gold anomalies are open to the west and south of present coverage.

These Au soil anomalies should be used to further refine the selection of 1987 diamond drill targets.

ICP analyses of background and anomalous soils from L8600 mN indicate that Au, Ag, As, and Pb are the most useful elements to look at to define targets identified as priority targets by Au and Pb AA analysis.

RECOMMENDATIONS

1. Gold soil geochemical analyses (Figure 3) should be used along with lead geochemical data and, to a lesser degree, silver geochemical data in selecting drill targets for 1987.

2. More gridding with soil sampling at 20m intervals on lines 200m apart or closer should be done to extend the existing grid to grid S and SW. A change of baseline orientation to a more northerly azimuth would facilitate access.

REFERENCES

Dale, A. and MacArthur, R., 1985. Assessment Report: Geochemical Report on Tommy Jack Creek Property. Noranda Exploration Co. Ltd., Prince George, B.C., 5pp.

Geological Survey of Canada, 1972. Aeromagnetic Map #7786, McConnell Creek (94 D), 1:253,440. Ottawa, Ontario.

Myers, D., 1985. Assessment Report: Geology and Geochemistry of the Tommy Jack Creek Property. Noranda Exploration Co., Ltd., Prince George, B.C., 9 pp.

Myers, D., 1986. Report on Drilling, Geophysics, and Geochemistry, Tommy Jack Creek. Noranda Exploration Co., Ltd., Prince George, B.C., 63+ pp.

Myers, D., 1987. Assessment Report: Diamond Drilling on Tommy Jack Creek Property. Noranda Exploration Co. Ltd., Prince George, B.C., 60+ pp.

Thompson, W., 1964. Assessment Report #574: Soil Geochemistry Report. BCMEMPR, Victoria, B.C.

Tipper, H.W. and Richards, T.A., 1976. Jurassic Stratigraphy and History of North-Central British Columbia. GSC Bulletin 270, Ottawa, Ont., 73 pp.

APPENDIX 1.

STATEMENT OF QUALIFICATIONS

Relevant Training

B.Sc. (1970) Pennsylvania State University
University Park, Pa., USA
Geological Sciences

M.Sc. (1973) University of Toronto
Toronto, Ontario, Canada
Geochemistry

Relevant Experience

1973 - 1980 Exploration and Mine Geologist
Cominco Ltd.
Vancouver and Yellowknife

1980 - 1982 Exploration Geologist
Noranda Exploration Co., Ltd.
Yellowknife, N.W.T.

1982 - 1983 Exploration Geologist
Noranda Exploration Co., Ltd.
Smithers, B.C.

1983 - present Exploration Geologist
Noranda Exploration Co., Ltd.
Prince George, B.C.

Professional Affiliations

Fellow, Geological Association of Canada

Member, Association of Professional Engineers, Geologists, and Geophysicists of the Northwest Territories

Member, Canadian Institute of Mining and Metallurgy

Delbert E. Myers, Jr.
Project Geologist

Appendix 2. Statement of Costs

Laboratory costs	543 soil samples for Au @ $ 3.50/sample	=	$1900.50
	14 soil samples for ICP analysis @ $ 6.00/sample	=	$ 84.00
Report Preparation	2 man-days @ $200/man-day	+	$ 400.00
	Total cost		$2384.50

Appendix 3.

ANALYTICAL METHOD DESCRIPTIONS FOR GEOCHEMICAL ASSESSMENT REPORTS

Revised:01/86

The methods listed are presently applied to analyse geological materials by the Noranda Geochemical Laboratory at Vancouver. (March, 1984)

Preparation of Samples

Sediments and soils are dried at approximately 80°C and sieved with a 80 mesh nylon screen. The -80 mesh (0.18 mm) fraction is used for analysis.

Rock specimens are pulverized to -120 mesh (0.13 mm). Heavy mineral fractions (panned samples) are analysed in its entirety, when it is to be determined for gold without further sample preparation. See addendum.

Analysis of Samples.

Decomposition of a 0.200 g sample is done with concentrated perchloric and nitric acid (3:1), digested for 5 hours at reflux temperature. Pulps of rock or core are weighed out at 0.2 g or less depending on the matrix of the rock, and twice as much acid is used for decomposition than that is used for silt or soil.

The concentrations of Ag, Cd, Co, Cu, Fe, Mn, Mo, Ni, Pb, V and Zn (all the group A elements of the fee schedule) can be determined directly from the digest (dissolution) with an atomic absorption spectrometer (AA). A Varian-Techtron Model AA-5 or Model AA-475 is used to measure elemental concentrations.

Elements Requiring Specific Decomposition Method

Antimony - Sb: 0.2 g sample is attacked with 3.3 mL of 6% tartaric acid, 1.5 mL conc. hydrochloric acid and 0.5 mL of conc. nitric acid, then heated in a water bath for 3 hours at 95° C. Sb is determined directly from the acid solution with an AA-475 equipped with electrodeless discharge lamp (EDL).

Arsenic - As: 0.2 - 0.4 g sample is digested with 1.5 mL of 70 % perchloric acid and 0.5 mL of conc. nitric acid. A Varian AA-475 equipped with an As-EDL measures the arsenic concentration of the digest.

Barium - Ba: 0.1 g sample is decomposed with conc. perchloric, nitric and hydrofluoric acid. Atomic absorption using a nitrous oxide-acetylene flame determines Ba from the aqueous solution.

Bismuth - Bi: 0.2 g - 0.3 g is digested with 2.0 ml of perchloric 70% and 1.0 ml of conc. nitric acid. Bismuth is determined directly from the digest into the flame of the AA instrument c/w EDL.

Gold - Au: 10.0 g sample (Pan-concentrates see below) is digested with aqua regia (1 part nitric and 3 parts hydrochloric acid). Gold is extracted with Methyl iso-Butyl ketone (MIBK) from the aqueous solution. Gold is determined from the MIBK solution with flame AA.

Magnesium - Mg: 0.05 - 0.10 g sample is digested with 4 ml perchloric/nitric acid (3:1). An aliquot is taken to reduce the concentration to within the range of atomic absorption. The AA-475 with a nitrous oxide flame determines Mg from the aqueous solution.

Tungsten - W: 1.0 g sample sintered with a carbonate flux and thereafter leached with water. The leachate is treated with potassium thiocyanate. The yellow tungsten thiocyanate is extracted into tri-n-butyl phosphate. This permits colourimetric comparison with standards to measure tungsten concentration.

Uranium - U: An aliquot, taken from a perchloric-nitric (3:1) decomposition, usually from the multi-element digestion, is diluted with water and a phosphate buffer. This solution is exposed to laser light, and the luminescence of the uranyl ion is quantitatively measured on the UA-3 (Scintrex).

LOWEST VALUES REPORTED IN PPM

Ag - 0.2	Mn - 20	Zn - 1	Au - 0.01 (10PPB)
Cd - 0.2	Mo - 1	Sb - 1	W - 2
Co - 1	Ni - 1	As - 1	U - 0.1
Cu - 1	Pb - 1	Ba - 10	
Fe - 100	V - 10	Bi - 1	

Appendix 4.

NORANDA VANCOUVER LABORATORY

****

PROPERTY/LOCATION:TOMMY JACK CREEK CODE :8511-010 (8702-018)

Project No. :264 Sheet:1 of 12 Date rec'd:FEB.19
Material :SOIL Geol.:D.M. Date compl:FEB.24
Remarks :GOLD DETERMINED 27/02/87
Values in PPM, except where noted.

T.T. No.	SAMPLE No.	PPB Au
2	9200N-9000E	I.S.
3	9020	10
4	9040	10
5	9060	10
6	9080	10
7	9100	10
8	9120	10
9	9140	10
10	9180	10
11	9200	10
12	9220	10
13	9240	10
14	9280	10
15	9300	10
16	9320	10
17	9340	10
18	9360	10
19	9380	10
20	9400	10
21	9420	10
22	9440	10
23	9460	10
24	9480	10
25	9500	10
26	9520	10
27	9540	10
28	9580	150
29	9600	10
30	9620	10
31	9640	10
32	9660	20
33	9680	60
34	9700	10
35	9720	40
36	9740	10
37	9760	30
38	9780	10
39	9800	10
40	9820	10
41	9840	540
42	9860	680
43	9880	10
44	9900	50
45	10160	10
46	10180	10
47	10200	10
48	10220	10
49	9200N-10240E	10

n = 589 samples

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T.T. No.	SAMPLE No.	PPB Au
50	9200N-10260E	10
2	10280	10
3	10300	10
4	10320	10
5	10340	10
6	10360	10
7	10380	10
8	10400	10
9	10420	10
10	10440	10
11	10460	10
12	10480	10
13	10500	10
14	10520	10
15	10540	10
16	10560	10
17	10580	10
18	10600	10
19	10620	10
20	10640	10
21	10660	10
22	10680	10
23	10700	10
24	10720	10
25	10740	10
26	10760	10
27	10780	10
28	10800	10
29	10820	10
30	10840	10
31	10860	10
32	10880	10
33	10900	10
34	10920	10
35	10940	10
36	10960	10
37	10980	10
38	9200N-11000E	10
39	8900N-10160E	10
40	10180	10
41	10200	10
42	10220	10
43	10240	10
44	10260	10
45	10280	10
46	10320	10
47	10340	10
48	10360	10
49	10380	10
50	10420	10
52	10440	10
53	10460	10
54	10480	10
55	10500	10
56	10520	10
57	10540	10
58	8900N-10560E	10

T.T. No.	SAMPLE No.	PPB Au
59	8900N-10580E	30
60	10600	10
61	10620	10
62	10640	10
63	10660	10
64	10680	10
65	10700	10
66	10720	10
67	10740	10
68	10760	10
69	10780	10
70	10800	10
71	10820	10
72	10840	10
73	10860	10
74	10880	10
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79	10980	10
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81	9000	10
82	9020	10
83	9060	10
84	9080	10
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86	9140	10
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88	9180	10
89	9200	10
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91	9240	10
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95	9320	10
96	9340	10
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98	9380	10
99	9420	10
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5	9520	20
6	9540	20
7	9560	20
8	9580	40
9	9600	10
10	9620	40
11	9660	10
12	9680	10
13	9860	10
14	8900N-9880E	200
15	8800N-9940E	10
16	8800N-9920E	10

T. T. No.	SAMPLE No.	PPB Au
17	8800N-9700E	10
18	9680	10
19	9660	120
20	9640	10
21	9620	10
22	9600	30
23	9580	60
24	9560	30
25	9540	40
26	9520	60
27	9500	10
28	9480	10
29	9460	240
30	9440	20
31	9420	10
32	9400	10
33	9360	10
34	9340	60
35	9320	10
36	9280	10
37	9260	10
38	9240	10
39	9220	10
40	9200	10
41	9180	10
42	9160	10
43	9140	10
44	9120	10
45	9100	10
46	9080	10
47	9060	10
48	9020	720
49	9000	10
50	11000	10
51	10980	10
52	10960	10
53	10940	10
54	10920	10
55	10900	30
56	10880	10
57	10860	10
58	10840	10
59	10820	10
60	10800	10
61	10780	10
62	10760	10
63	10740	10
64	10720	60
65	10700	10
66	10680	10
67	10660	100
68	10640	20
69	10620	180
70	10600	60
71	10580	80
72	10560	20
73	8800N-10540E	100

T. T. No.	SAMPLE No.	PPB Au
74	8800N-10520E	10
75	10500	10
76	10480	10
77	10460	10
78	10440	10
79	10420	10
80	10400	10
81	10360	10
82	10340	10
83	10320	10
84	10300	20
85	10280	10
86	10260	10
87	10240	10
88	10220	10
89	10200	10
90	10180	10
91	8800N-10160E	10
92	8600N-10020E	10
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94	10060	10
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4	10280	10
5	10300	10
6	10320	140
7	10340	10
8	10360	40
9	10380	30
10	10400	420
11	10420	20
12	10440	20
13	10460	100
14	10480	10
15	10500	10
16	10520	10
17	10540	10
18	10560	10
19	10580	10
20	10620	10
21	10660	10
22	10680	20
23	10700	10
24	10720	10
25	10780	10
26	10800	10
27	10820	10
28	10840	10
29	10860	10
30	10880	10
31	8600N-10900E	10

T. T. No.	SAMPLE No.	PPB Au
32	8600N-10920E	10
33	10940	10
34	10960	10
35	10980	10
36	11000	10
37	9000	10
38	9020	10
39	9040	10
40	9060	10
41	9080	10
42	9100	10
43	9120	10
44	9140	10
45	9160	10
46	9200	10
47	9240	10
48	9260	10
49	9300	10
50	9320	10
51	9340	10
52	9360	10
53	9380	10
54	9400	10
55	9420	10
56	9440	10
57	9480	10
58	9500	10
59	9520	10
60	9540	10
61	9560	10
62	9580	10
63	9600	10
64	9620	10
65	9640	10
66	9660	10
67	9700	60
68	9720	10
69	9740	10
70	9760	10
71	9780	10
72	9800	10
73	8600N-9820E	10
74	8500N-9000E	10
75	9020	10
76	9040	10
77	9060	10
78	9080	10
79	9100	I.S.
80	9120	10
81	9140	10
82	9160	10
83	9180	10
84	9200	10
85	9220	10
86	9240	10
87	9260	40
88	8500N-9280E	10

T. T. No.	SAMPLE No.	PPB Au
89	8500N-9300E	10
90	9320	10
91	9340	10
92	9360	10
93	9380	10
94	9400	10
95	9420	10
96	9440	10
97	9480	10
98	9500	340
99	9520	10
100	9540	60
2	9560	60
3	9580	10
4	9600	40
5	9620	20
6	9640	10
7	9660	10
8	9680	10
9	9700	10
10	9760	10
11	9780	10
12	9800	10
13	9820	10
14	10020	10
15	10040	10
16	10060	10
17	10080	10
18	10100	10
19	10120	10
20	10140	290
21	10160	10
22	10180	10
23	10200	10
24	10220	10
25	10240	10
26	10260	80
27	10280	10
28	10300	10
29	10320	10
30	10340	10
31	10360	10
32	10380	350
33	10400	270
34	10440	20
35	10460	80
36	10480	10
37	10500	10
38	10520	10
39	10540	10
40	10560	10
41	10580	120
42	10600	10
43	10620	10
44	10640	10
45	10680	10
46	8500N-10700E	120

T.T. No.	SAMPLE No.	PPB Au
47	8500N-10740E	10
48	10760	10
49	10780	10
50	10820	10
51	10840	10
52	10860	10
53	10900	10
54	10920	10
55	10940	10
56	10960	10
57	10980	10
58	8500N-11000E	10
59	8300N-9000E	20
60	9020	10
61	9040	10
62	9060	10
63	9080	10
64	9100	10
65	9120	10
66	9140	10
67	9160	10
68	9180	10
69	9200	10
70	9220	10
71	9240	10
72	9260	10
73	9280	10
74	9300	10
75	9320	10
76	9340	10
77	9360	10
78	9380	10
79	9400	10
80	9420	10
81	9440	10
82	9460	10
83	9480	10
84	9500	10
85	9520	400
86	9540	10
87	9560	200
88	9580	2200
89	9600	20
90	9620	10
91	9640	10
92	9660	10
93	9680	10
94	9700	10
95	9720	10
96	9740	10
97	9760	10
98	9780	10
99	9800	10
100	9820	10
2	9840	10
3	9860	10
4	8300N-9880E	10

T.T. No.	SAMPLE No.	PPB Au
5	8300N-9900E	10
6	9920	80
7	9940	10
8	9960	40
9	9980	10
10	10000	10
11	10020	10
12	10060	10
13	10100	10
14	10120	70
15	10160	10
16	10180	10
17	10200	10
18	10220	10
19	10240	10
20	10260	10
21	10280	10
22	10320	10
23	10340	10
24	10360	10
25	10380	10
26	10400	10
27	10420	10
28	10440	10
29	10460	10
30	10500	10
31	10520	10
32	10540	10
33	10560	10
34	10580	10
35	10600	10
36	10620	10
37	10640	10
38	10660	10
39	10680	10
40	10700	10
41	10720	20
42	10740	10
43	10760	10
44	10820	10
45	10840	10
46	10860	10
47	10880	10
48	10900	10
49	10920	30
50	10940	10
51	10960	10
52	10980	10
53	8300N-11000E	10
54	8200N-9000E	10
55	9020	20
56	9040	10
57	9060	40
58	9080	10
59	9100	10
60	9120	10
61	8200N-9140E	10

T.T. No.	SAMPLE No.	PPB Au
62	8200N-9160E	10
63	9180	10
64	9200	10
65	9220	10
66	9240	10
67	9260	20
68	9280	10
69	9300	150
70	9320	80
71	9340	10
72	9360	10
73	9380	10
74	9400	10
75	9420	10
76	9440	10
77	9460	10
78	9480	10
79	9500	20
80	9540	20
81	9560	10
82	9580	10
83	9600	10
84	9620	10
85	9660	10
86	9680	20
87	9700	10
88	9720	10
89	9740	10
90	9760	10
91	9780	80
92	9800	10
93	9820	10
94	9840	10
95	9880	10
96	9900	10
97	9920	10
98	9940	10
99	9960	10
100	9980	10
2	10000	50
3	10020	10
4	10040	10
5	10060	10
6	10080	10
7	10100	10
8	10120	10
9	10140	10
10	10160	10
11	10200	10
12	10220	10
13	10240	10
14	10260	10
15	10280	10
16	10300	10
17	10320	10
18	10340	10
19	8200N-10360E	10

T. T. No.	SAMPLE No.	PPB Au
20	8200N-10380E	10
21	10400	10
22	10420	10
23	10440	10
24	10460	10
25	10480	10
26	10500	10
27	10520	10
28	10540	10
29	10560	10
30	10580	10
31	10600	40
32	10620	10
33	10640	10
34	10660	10
35	10680	40
36	10700	10
37	10720	10
38	10740	10
39	10760	10
40	10780	10
41	10800	10
42	10820	10
43	10840	10
44	10860	10
45	10880	10
46	10900	10
47	10920	10
48	10940	10
49	10960	10
50	10980	10
51	8200N-11000E	10
52	8000N-9000E	10
53	9020	10
54	9040	10
55	9080	10
56	9100	10
57	9120	10
58	9140	10
59	9160	10
60	9180	10
61	9200	10
62	9220	10
63	9240	10
64	9260	10
65	9280	10
66	9300	10
67	9320	10
68	9340	480
69	9360	10
70	9380	10
71	9400	10
72	9420	10
73	9440	10
74	9460	200
75	9480	60
76	8000N-9500E	10

T.T. No.	SAMPLE No.	PPB Au	8511-010 (8702-018) Pg. 12 of 12
77	8000N-9520E	10	
78	9540	10	
79	9560	210	
80	9580	10	
81	9600	400	
82	9620	60	
83	9640	60	
84	9660	10	
85	9680	10	
86	9700	10	
87	9720	10	
88	9740	10	
89	9760	10	
90	9780	10	
91	9800	10	
92	9820	10	
93	9840	10	
94	9860	10	
95	9880	10	
96	9900	10	
97	9920	10	
98	9940	10	
99	9960	10	
100	9980	10	
2	8000N-10000E	10	

NORANDA VANCOUVER LABORATORY

****

PROPERTY/LOCATION: TOMMY JACK CREEK. 94D/4E

CODE :8704-002

Project No. :264 Sheet: 1 of 2 Date rec'd:MAR.18

Material :106 SOIL Geol.: D.M. Date compl:APR.08

Remarks :

Values in PPM, except where noted.

T.T. No.	SAMPLE No.	PPB Au
72	8400N-9840E	10
73	9860	10
74	9880	40
75	9900	10
76	9920	60
77	9940	20
78	9960	150
79	9980	10
80	8400N-10000E	10
81	8500N-9840E	10
82	9860	10
83	9880	10
84	9900	10
85	9920	10
86	9940	10
87	9960	10
88	9980	10
89	8500N-10000E	10
90	8600N-9840E	10
91	9860	20
92	9880	10
93	9900	10
94	9920	10
95	9940	10
96	9960	10
97	9980	10
98	8600N-10000E	60
99	8700N-9900E	10
100	9920	10
2	9940	10
3	9960	10
4	9980	10
5	10000	10
6	10020	660
7	10040	200
8	10060	10
9	10080	10
10	10100	20
11	10120	10
12	8700N-10140E	70
13	8800N-9720E	10
14	9740	380
15	9760	20
16	9780	80
17	9800	120
18	9820	1560
19	9840	10
20	8800N-9900	20

n = 106 samples

cc: Del

ORIGINAL

file Tommy Jack Creek 1987

T. T. No.	SAMPLE No.	PPB Au	8704-002 Pg. 2 of 2
21	8800N- 9920	10	
22	9940	10	
23	9960	320	
24	9980	10	
25	10000	10	
26	10020	20	
27	10040	10	
28	10060	90	
29	10080	10	
30	10100	10	
31	10120	10	
32	8800N-10140E	10	
33	8900N-9700E	10	
34	9720	10	
35	9740	10	
36	9760	10	
37	9780	10	
38	9800	20	
39	9820	20	
40	9840	10	
41	9900	10	
42	9920	10	
43	9940	10	
44	9960	10	
45	9980	30	
46	10000	10	
47	10020	10	
48	10040	10	
49	10060	10	
50	10080	10	
2	10100	10	
3	8900N-10120E	10	
4	9200N-9910E	10	
5	9940	10	
6	9970	10	
7	10000	10	
8	10030	10	
9	10060	10	
10	10090	10	
11	10120	10	
12	9200N-10150E	10	
13	8750N-9700E	10	
14	9720	10	
15	9740	100	
16	9760	40	
17	9780	200	
18	9800	40	
19	9820	10	
20	8750N-9840E	20	
21	8950N-9900E	10	
22	10000	10	
23	10020	10	
24	10040	10	
25	10060	10	
26	10080	10	
27	10100	10	
28	10120	10	
29	8950N-10140E	10	

Correction

~~1985~~ RR Tommy Jack

ACME ANALYTICAL LABORATORIES 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE 253-3158 DATA LINE 251-1011

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE CA P CR MG BA TI B AL NA K W SI ZR CE SN Y NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Pulp

DATE RECEIVED: MAR 18 1987 DATE REPORT MAILED: Mar 25/87 ASSAYER. ..... DEAN TOYE. CERTIFIED B.C. ASSAYER

NORANDA EXPLORATION (VANCOUVER) PROJECT - 240 8511-010 File # 87-0735

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM
B600N 10240E	1	19	10	50	.1	2	3	106	1.80	57	5	ND	1	4	1	2	2	58	.04	.037	8	3	.03	21	.01	10	.56	.01	.02	1
B600N 10280E	5	74	54	500	7.9	25	20	30160	5.36	196	5	ND	6	85	30	2	2	28	1.56	.161	17	8	.18	1187	.04	26	2.18	.01	.04	3
B600N 10300E	1	19	9	53	1.6	4	2	164	1.71	69	5	ND	1	3	1	3	2	40	.02	.025	13	1	.03	24	.01	10	.45	.01	.02	1
B600N 10320E SX	1	8	11	37	.2	2	2	119	.84	68	5	ND	1	4	1	3	2	7	.07	.009	2	1	.02	9	.01	8	.15	.01	.01	1
B600N 10340E	1	37	4	95	.4	10	7	135	2.79	41	5	ND	1	3	1	2	2	20	.05	.050	5	1	.04	14	.01	18	.29	.01	.03	1
B600N 10360E	1	68	84	176	.5	17	10	401	5.95	135	5	ND	1	8	1	2	2	41	.10	.062	5	15	.38	49	.01	9	1.61	.01	.02	1
B600N 10380E	1	18	9	53	.4	3	3	200	1.55	69	5	ND	1	6	1	2	2	35	.05	.033	9	1	.02	19	.01	17	.32	.01	.01	1
B600N 10400E	1	36	114	129	1.7	10	8	381	5.72	179	6	2	1	5	1	4	2	55	.02	.078	8	4	.08	30	.01	11	.97	.01	.03	1
B600N 10420E	1	13	12	38	.7	3	2	91	1.07	66	5	ND	1	5	1	2	2	36	.05	.028	8	2	.02	19	.01	14	.42	.01	.02	2
B600N 10440E	1	17	11	53	.8	3	3	321	1.76	53	5	ND	1	6	1	2	2	52	.05	.041	9	4	.03	28	.01	11	.65	.01	.02	1
B600N 10460E	1	18	136	50	.5	2	2	251	2.33	105	5	ND	1	7	1	2	2	54	.08	.061	9	5	.03	25	.01	12	.64	.01	.03	1
B600N 10480E	1	66	35	190	1.7	10	7	1501	4.93	112	5	ND	1	48	1	2	2	56	.77	.096	14	13	.29	151	.01	8	1.45	.01	.02	1
B600N 10500E	1	43	33	139	.3	17	10	386	4.85	39	5	ND	2	13	1	2	2	57	.17	.058	8	18	.59	66	.02	11	2.09	.02	.02	1
B600N 10520E	1	18	17	63	1.8	5	5	311	4.00	20	5	ND	1	5	1	2	2	70	.04	.176	6	8	.16	40	.03	14	1.13	.01	.03	1
STD C	22	61	41	141	7.3	73	30	1069	3.99	41	15	7	36	51	18	16	23	67	.48	.108	38	62	.88	189	.09	36	1.72	.08	.13	13

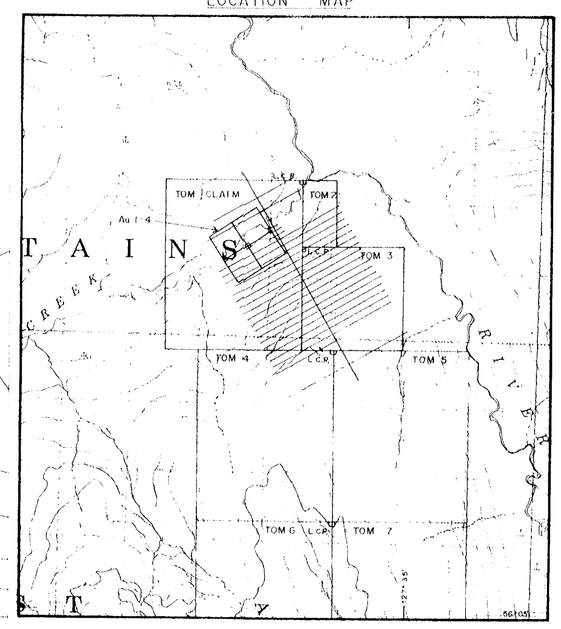
Tommy Jack 1987 - Correction

ORIGINAL

cc: Dec

RECEIVED
APR - 8 1987

LOCATION MAP



0 1 2 3 4 KILOMETRES
SCALE 1 50,000

L E G E N D

- 10 — Au soil values ≥ 10ppb
- △ Campsite
- (H) Helicopter pad
- (C) Clearing
- TJ86-2 — DIAMOND DRILL HOLE - INCLINED
- Au ≥ 30 ppb
- Au ≥ 100 ppb
- Au ≥ 300 ppb

TOM CLAIM
TOM 2 CLAIM
TOM 3 CLAIM
TOM 4
TOM 5
L.C.P.
B/L 10,000E
SIGNAL LINE
RIVER 10,000E
10,800E
10,600E
10,400E
10,200E
9800E
9600E
9400E
9200E
10,800N
10,400N
10,200N
10,000N , 10,000E
9900N
9800N
9700N (line 1 of Canex)
9600N (line 2 of Canex)
9500N
9400N (line 3 of Canex)
9300N
9200N (line 4 of Canex)
9100N
9000N (line 5 of Canex)
8900N (line 6 of Canex)
(line 7 of Canex)
8700N
8600N
8500N
8400N
8300N
8200N
8100N
8000N
7900N
7800N
7700N
7600N
7500N
7400N
OLD CAMP
HIGH CAMP
Au 1
Au 2
Au 3
Au 4
JACK CREEK
TOMMY
TJ86-1
TJ86-2,3
TJ86-4
TJ86-5
TJ86-6
TJ86-7
TJ86-8
TJ86-9
TJ86-10
B/L 10,000E 4:1Sw
1368 m

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,062

0 100 200 300 400 500m
SCALE 1 5,000

REVISED
DEMJr. Mar., 1987
DEMJr. Apr., 1987

TOMMY JACK CREEK PROPERTY

SOIL GEOCHEMISTRY
GOLD IN PPB

PROJ. No. 264
N.T.S. 94D/4E
DWG. No. Fig. 3

SURVEY BY: DEMJr. DATE: SEPT., 1986
DRAWN BY: C.K.B. SCALE: 1:5,000

NORANDA EXPLORATION
OFFICE: PRINCE GEORGE, B.C.