LOG NO: 08/24	RD.
ACTION:	
FILE NO:	

GEOCHEMICAL REPORT

on the

TNT CLAIM

SIMILKAMEEN M.D.

NTS 92H/8

LATITUDE: 49° 29'N

LONGITUDE: 120° 28'W

for

MINGOLD RESOURCES INC.
405, 470 Granville Street
Vancouver, B.C.
V6C 1V5

by

PAUL REYNOLDS, B.Sc.

August 6, 1990

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Summary

The TNT claim is located four kilometres northeast of Princeton, B.C. in an area underlain by Upper Triassic-Lower Jurassic andesites of the Nicola Group. During the 1990 field season Mingold Resources Inc. carried out a geochemical survey over a portion of the claim. This survey delineated two areas with anomalous concentrations of gold in soils. Follow up soil sampling is necessary to determine the full extent of the anomalies.

Introduction

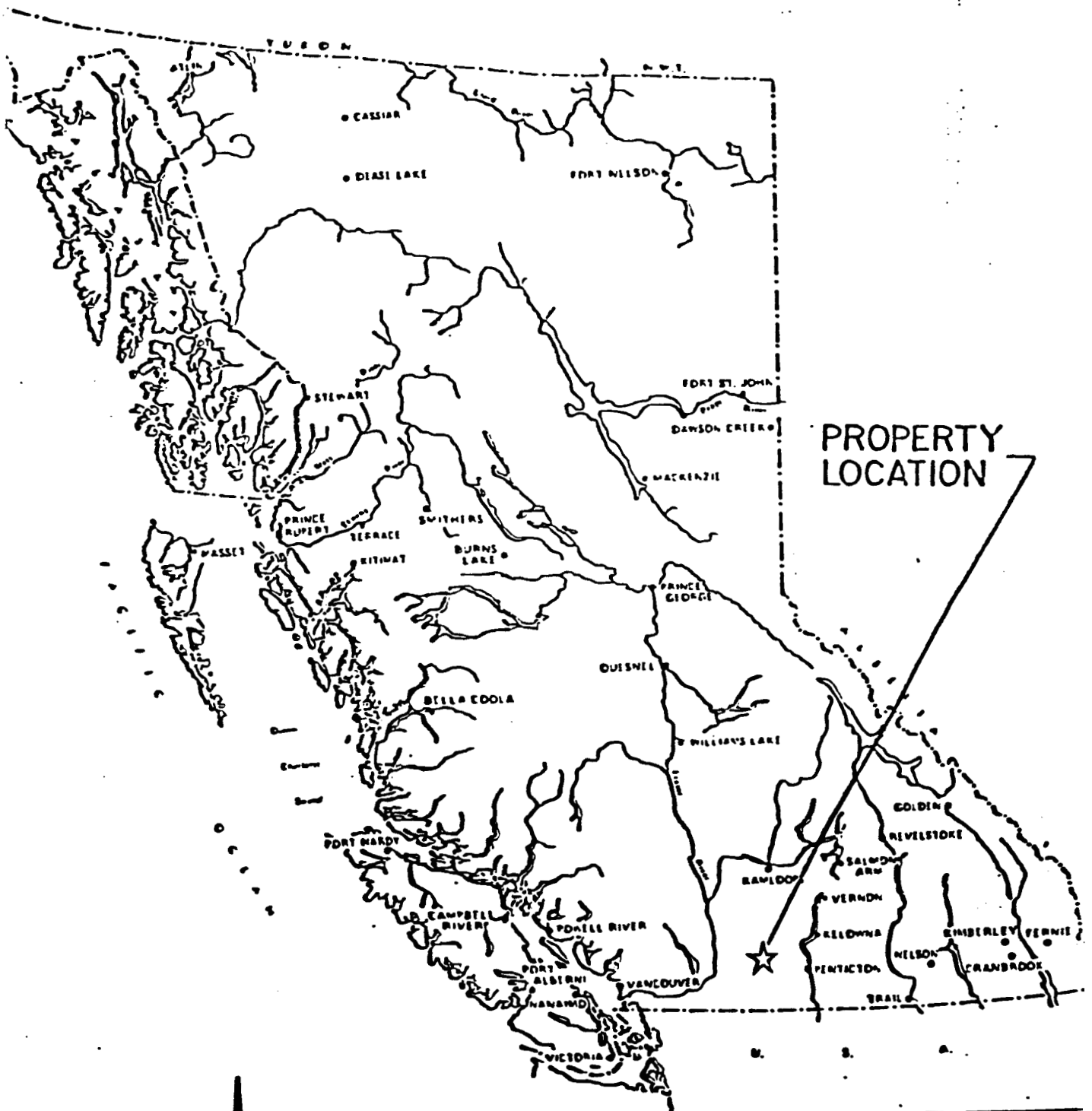
The TNT claim consists of 15 units staked by Mingold Resources in May, 1987. The claim is located four kilometres northeast of Princeton, B.C., on the western slopes of Mt. Miner.

On May 4, 5 and 6, 1990, a two man field crew carried out a soil geochemical survey to the north and west of a known gold in soil anomaly. The gold mineralization appears to be associated with intensely sheared zones that trend northwesterly across the claim.

This report has been prepared to satisfy requirements for assessment work being applied to the property.

Location, Access & Physiography

The claim occurs four kilometres northeast of Princeton, B.C., on NTS mapsheet 92H/8 (Fig. 1 & 2) in the Similkameen



MINGOLD RESOURCES INC.

VANCOUVER OFFICE

LOCATION MAP

DRAWN BY:	DATE:	APPROVED BY
BRITISH COLUMBIA	0 100 200 300 KM	1

Mining Division. The claim is centered at latitude 49° 29'N and longitude 120° 28'W.

Access is by Hwy. 5A north from Princeton to the Old Hedley Road. Follow this road east for approximately 500 metres to the Princeton - Summerland Hwy. This road is followed northward for approximately six kilometres to a gravel ranch road heading easterly to Mt. Miner. The trenched area is approximately 800 metres up this road.

The claims occur in the southern interior dry belt characterized by dry, hot summers and cold winters. The claim area lies on the western slopes of Mt Miner. Elevations range from 670 metres in Deer Valley to 1000 metres at the summit of Mt. Miner. Relief is very gentle. Vegetation is sparse with open grasslands sprinkled with Ponderosa Pine and Cactus.

Claim Status & Ownership

The TNT claim consists of 15 units (Fig. 2) staked under the modified grid system by Mingold Resources Inc. on May 15, 1987. The claims are 100% owned by Mingold Resources Inc. Claim information is as follows:

Claim Name	No. of Units	Date Staked	Record Number	Expiry Date	Mining Division
TNT	15	06/04/87	2927	06/04/91*	Similkameen

* Includes assessment currently being applied.

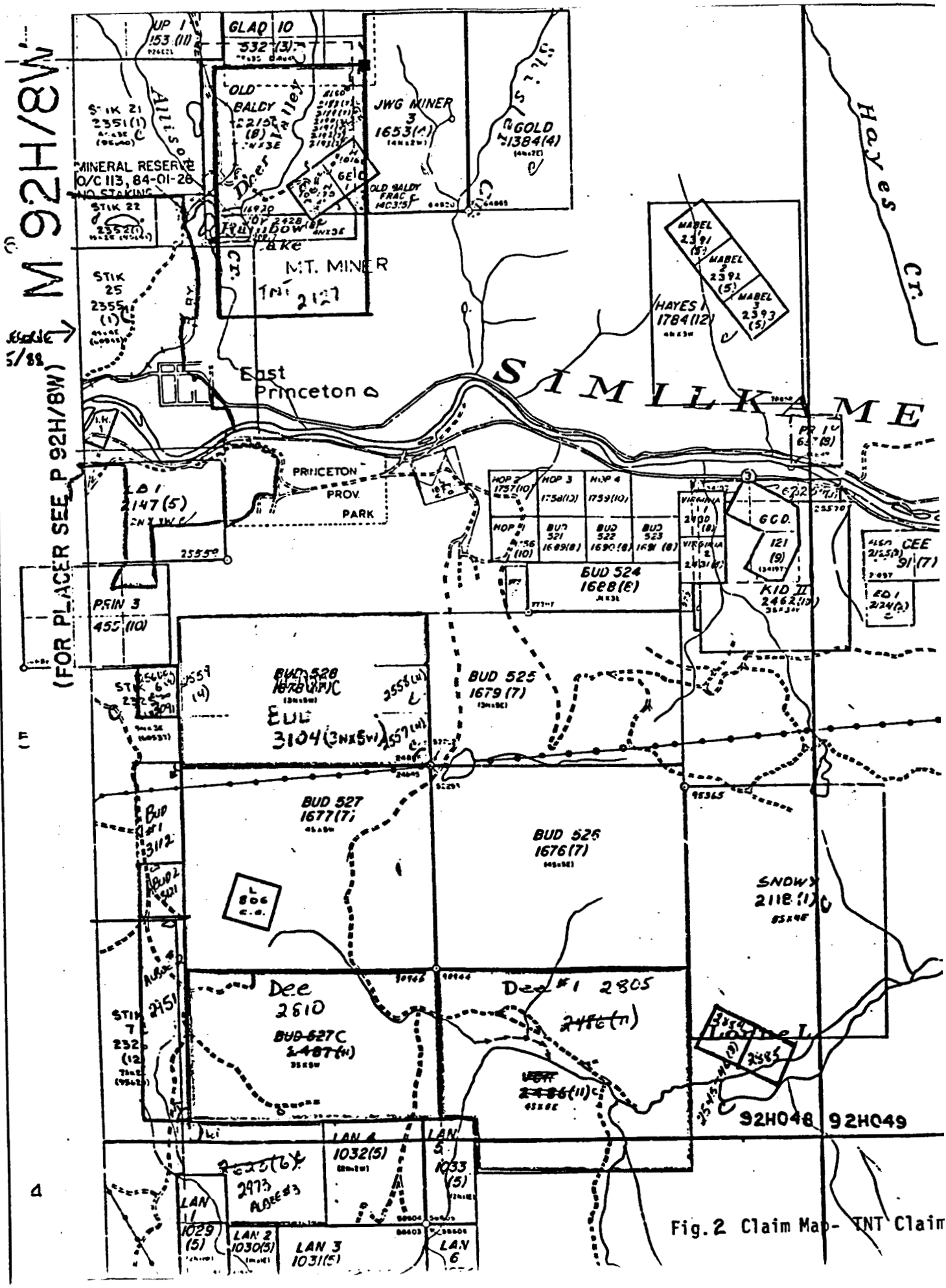


Fig. 2 Claim Map- TNT Claim

History

The earliest known work on the area of the TNT claims was in 1905 (Preto, 1974) however no details are known.

In 1929 W.C. McDougall of Olalla staked the area as the REGAL claims. Some diamond drilling was done in the area of previous development work however recovery was poor and grades of copper were too low.

No known activity occurred from 1930 to 1950. From 1951 to 1962, the Granby Mining Co. Ltd. held the ground, however no details of any of the work is available. Preto (1974) mentions that Granby did considerable trenching, some diamond drilling and geochemical and geophysical surveys.

In 1962, E. Mullins and G. Burr of Princeton restaked the main workings as the G.E. and VI claims. They were subsequently optioned by Climax Copper Mines Ltd. in 1963 who carried out geophysical surveys, includng I.P., geological mapping and 1077 metres of diamond drilling in an unknown number of holes.

Granby re-optioned the claims in 1965 and drilled 41 percussion holes totalling 1792 metres. They also increased the ground holdings to 72 claims. From 1965 to 1970, no recorded work was done and the ground reverted back to Millins and Burr.

In 1970, Joy Mining Ltd. optioned the ground and increased the land position to 343 claims (G.D., DOT, ML, etc.) 152 metres of trenching and 1/4 sq. mile (.012 hectares of stripping was done. Saracen Mines Ltd. appears to have

operated the property for Joy in 1971. They carried out surface geological mapping at approximately 1:20,000, 103 kilometres of soil geochem at 30.5 metre spacings (estimated 3377 samples), 200 stream sediments, 37 kilometres of I.P., 3 diamond drill holes totalling 457 metres and constructed an acid leach plant for copper recovery. Reserves were reportedly "several hundred thousand tons of oxide-sulphide copper mineralization averaging about 0.50% total copper". The acid leaching of some highly oxidized material around the old Regal trenches was apparently unsuccessful.

In 1973, Bethlehem Copper Corp. optioned the claims and drilled 5 widely spaced diamond drill holes. They returned the ground to Millins and Burr in 1974 and apparently most of the ground was allowed to lapse.

In 1977, Quintana Minerals Corp. restaked part of the area of the BTU claims and did 10 kilometres of linecutting and I.P.

J.M.T. Services Copr. restaked the eastern potion of the area as the JWG Miner and OLD BALDY claims in 1979. They drilled 4 short percussion holes totalling 68 metres that year.

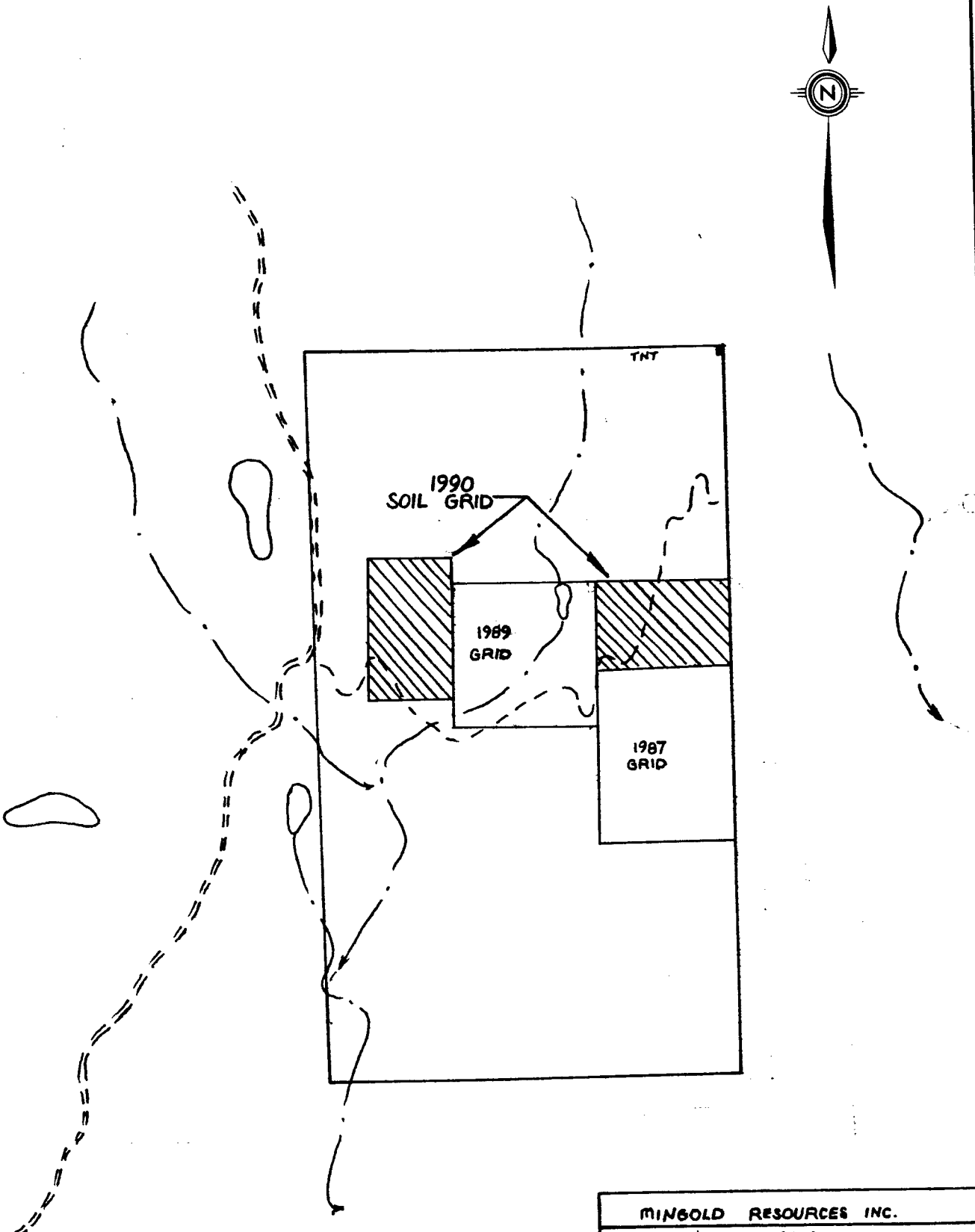
In 1980, Superior Oil Co. and J.M.T. drilled 2 diamond drill holes on the IRLYBIRD claims which are presumed to be in the same area as the JWG MINER claims. Somehow the JWG MINER claims were included in ground influenced by the 1980 uranium moratorium and remained in limbo until their release in 1987.

In 1987, Mingold Resources Inc. staked the TNT claims which cover the western portion of the old REGAL - G.E. claims. Rock sampling of several of the old trenches indicated anomalous gold values to be accompanying some of the copper mineralization. The gold appears to be related to several northwesterly trending fault zones which contain primarily oxide copper mineralization. A soil geochem survey was subsequently carried out over the trenched area in 1987 and extended to the northwest in 1989.

Geology

The TNT claims occur within a northerly trending belt of highly fractured and altered andesitic volcanic rocks of the Upper Triassic - Lower Jurassic Nicola Group. This is the southern end of the Quesnel Trough structural regime where correlative Takla Group volcanics prevail. This belt is well known for its volcanic hosted copper porphyry mineralization. In recent years, the gold potential of the belt has been the main focus of exploration especially since the discovery of the QR deposit in the Horsefly-Likely area.

On the TNT claims, the main ara of copper mineralization is located north of Mt. Miner in the vicinity of the Granby trenches (see Fig. 4). This area is underlain by highly fractured and altered Nicola andesites. Mineralization consists of disseminations and fracture fillings of chalcopyrite and pyrite. The western Granby trenches are cut by two zones of intensely sheared, bleached and oxidized rock trending northwesterly. These probably represent major fault zones up to 100 metres wide and may be the source of the gold mineralization encountered in



MINGOLD RESOURCES INC.	
TNT CLAIM	
GRID LOCATION MAP	
NTS: 92H 8/W	AUGUST 1990
1:20000	FIG. 3

previous rock sampling. All primary rock features have been destroyed and only oxide copper minerals are visible.

On the Regal trenches similar oxide type mineralization is found. This mineralization reportedly occurs as part of a landslide block which presumably originated upslope in the Granby trenches area. This material is reported to contain several hundred thousand tons of oxide-sulphide copper mineralization averaging about 0.50% total copper (Preto, 1974). Caprock is Middle Eocene Princeton Group which occurs to the north of the Regal trenches. The contact with the Nicola rocks is not exposed.

Geochemical Survey

The 1990 soil sampling program was designed to trace the 1989 gold in soil anomaly to the north and west (Fig. 3 & 4).

Utilizing the 1989 grid for control, a total of 3500 metres of grid was established using hip chain and compass. One hundred and forty-six soil samples were collected at 25 metre intervals and 100 metre line spacing.

Samples were collected from a depth of 10-25 cm and placed in a gussetted Kraft envelope. Soils were mainly dark brown, silty loam from the upper B-horizon or lower A-horizon. Samples were air-dryed and shipped to Acme Analytical Labs in Vancouver for analysis (30 element ICP and geochemical Au). The analytical procedure is included in appendix II.

36 E 38 E 40 E 42E 44E 46E 48E

56N

54 N

52 N

50 N

48N

LAKE

See trench sampling map

• 30/20 Soil sample site - Cu, ppm / Au ppb

Trench

Contours 20, 50, 100 ppb Au
Cu over 200 ppm underlined

N

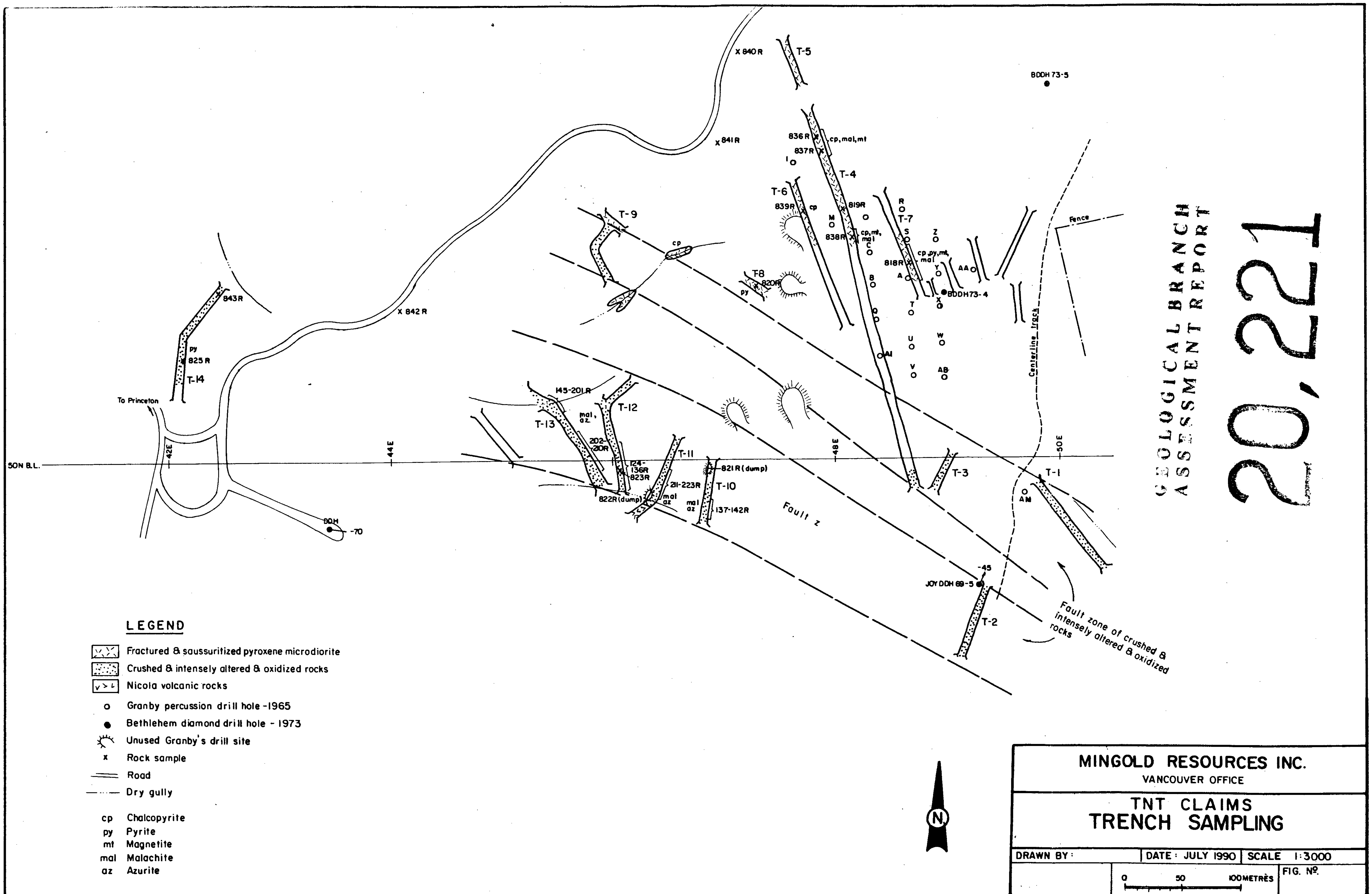
MINGOLD RESOURCES INC.

VANCOUVER OFFICE

TNT CLAIMS

SOIL GEOCHEMISTRY - Cu, Au

DRAWN BY : K.T.	DATE : JULY 1990	APPROVED BY :
	SCALE 1:5000 (0 — 100 — 200 Metres)	PLATE Nº. 4


MINGOLD RESOURCES INC.
VANCOUVER OFFICE
TNT CLAIMS
TRENCH SAMPLING
DRAWN BY:
DATE: JULY 1990
SCALE 1:3000
FIG. No.
0 50 100 METRES
LEGEND
Fractured & saussuritized pyroxene microdiorite
Crushed & intensely altered & oxidized rocks
Nicola volcanic rocks
Granby percussion drill hole - 1965
Bethlehem diamond drill hole - 1973
Unused Granby's drill site
Rock sample
Road
Dry gully
cp Chalcopyrite
py Pyrite
mt Magnetite
mal Malachite
az Azurite
T-1
T-2
T-3
T-4
T-5
T-6
T-7
T-8
T-9
T-10
T-11
T-12
T-13
T-14
X 840 R
X 841 R
X 842 R
843R
825 R
836 R
837R
838R
839R
819R
818R
820R
821R (dump)
822R (dump)
823R
124-136R
137-142R
145-201R
202-210R
211-223R
cp, mal, mt
cp, py, mt, mal
BDDH 73-5
BDDH73-4
JOY DDH 69-5
-45
DDH
-70
50N B.L.
42E
44E
48E
50E
To Princeton
Fence
Centerline track
Fault z
Fault zone of crushed & intensely altered & oxidized rocks
N
CHONG
GEOLOGICAL BRANCH
ASSESSMENT REPORT
20,221

Results

Copper and gold values are plotted on figure 4. Gold values are contoured at 20, 50 and 100 p.p.b. Copper values over 200 p.p.m. are underlined.

The 390 p.p.b. gold anomaly at L 39+00E, 52+75N continues to the west but is quite subdued. This may be, in part, due to deeper overburden.

A second anomalous zone was outlined to the north of the trenched area. This anomalous zone comprises three separate east-west trending anomalies, the largest and most well defined is centered at L46+50E, 54+50N. This anomaly is 300 metres long and up to 100 metres wide. The other two anomalies are open to the north and the west.

Conclusion & Recommendations

The 1990 soil geochemical survey was successful in delineating zones of potential gold mineralization. More soil sampling is necessary to trace the gold in soil anomalies to the north and west.

A VLF-EM survey may help delineate shear zones to the north of the main showing area.

P. Reynolds, B.Sc.

BIBLIOGRAPHY

1963	McKechnie, N.D.	"G.E., Regal (Climax Copper Mines Limited)" in Minister of Mines and Petroleum Resources Annual Report, 163 pp 63-65
1974	Preto, V.A.	"G.E., VI" in Geology, Exploration and Mining in B.C., 1974 pp 117-118 and illustration
1989	Taylor, K.J.	"Soil Geochemistry Report for Assessment on the TNT Claims, Princeton Area, B.C." Assess. Rpt., July 15, 1989

CERTIFICATE

I, Paul Reynolds, of the city of Vancouver in the Province of British Columbia do hereby certify that:

1) I am a graduate of the University of British Columbia with a B.Sc. degree in geology.

2) I have practiced my profession as exploration geologist since graduation in 1987.

3) I supervised the work on the TNT claims.

4) I have no interest in the property or in Mingold Resources Inc.

Dated this 12th day of August, 1990.

P. Reynolds, B.Sc.

APPENDIX I

STATEMENT OF COSTS

MAY 4 - 6, 1990

Geologist: (P. Reynolds)	3 days @ $200/day	600.00
Assistant: (D. Burridge)	3 days @ $130/day	390.00
Food		149.65
Gas		69.75
Motel		119.88
Truck Rental		180.00
Field Supplies		30.00
Maps/Drafting		80.00
Report Writing		400.00
Assays	149 @ $10.00 each	1,490.00
TOTAL		**3,509.28**

APPENDIX II

ASSAY CERTIFICATES

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Mingold Resources Inc. PROJECT TNT File # 90-1234 Page 1

Suite 405 The Rogers Building, 470 Granville St., Vancouver BC V6C 1V5 Submitted by: PAUL REYNOLDS

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	Au* ppb
TNT 35+00E 56+00N	1	14	15	86	.1	5	4	741	1.06	4	5	ND	7	77	.2	2	2	16	.60	.037	28	7	.21	225	.06	3	1.48	.01	.22	1	4
TNT 35+00E 55+75N	1	15	12	98	.1	10	6	760	1.25	3	5	ND	9	74	.4	2	2	21	.54	.036	38	11	.27	181	.07	4	1.76	.01	.24	1	1
TNT 35+00E 55+50N	1	16	6	67	.1	5	6	601	.96	3	5	ND	10	91	.2	2	2	16	.64	.036	34	6	.24	176	.04	7	1.27	.01	.22	1	2
TNT 35+00E 55+25N	1	17	16	70	.1	8	6	625	1.13	3	5	ND	14	92	.2	2	2	19	.61	.033	37	9	.26	193	.06	5	1.46	.01	.24	1	1
TNT 35+00E 55+00N	1	17	17	77	.1	6	5	510	1.22	2	5	ND	8	107	.2	2	2	23	.66	.041	33	11	.25	142	.06	4	1.32	.01	.22	1	3
TNT 35+00E 54+75N	1	18	9	67	.1	4	5	644	1.10	4	5	ND	8	94	.2	2	2	19	.61	.036	31	7	.22	233	.07	5	1.52	.01	.20	1	3
TNT 35+00E 54+50N	1	13	12	84	.1	7	6	836	1.22	2	5	ND	6	78	.2	2	2	21	.49	.038	35	7	.23	177	.07	4	1.84	.01	.19	1	1
TNT 35+00E 54+25N	1	11	16	67	.1	8	6	575	1.08	3	5	ND	13	56	.2	2	2	22	.37	.024	45	8	.29	145	.05	3	1.50	.01	.17	1	1
TNT 35+00E 54+00N	1	11	11	61	.1	6	5	349	.99	2	5	ND	19	40	.2	2	2	18	.28	.014	49	6	.27	161	.03	6	1.23	.01	.17	1	1
TNT 35+00E 53+75N	1	14	9	73	.1	6	5	594	1.26	2	5	ND	19	52	.2	2	2	25	.36	.031	54	8	.31	128	.04	4	1.52	.01	.22	1	2
TNT 35+00E 53+50N	1	37	16	75	.1	10	6	368	1.06	2	5	ND	15	83	.2	2	2	29	.56	.034	52	9	.35	107	.02	5	1.49	.01	.20	1	1
TNT 35+00E 53+25N	8	26	17	88	.1	9	6	444	.99	2	5	ND	18	84	.2	2	2	32	.47	.037	60	10	.24	256	.06	7	1.56	.01	.18	1	2
TNT 35+00E 53+00N	5	21	17	85	.1	8	6	480	1.11	5	5	ND	13	77	.2	2	2	27	.47	.035	50	9	.23	198	.05	7	1.55	.01	.20	1	1
TNT 35+00E 52+75N	2	14	9	58	.1	6	5	376	.85	3	5	ND	13	46	.2	2	2	18	.28	.022	40	7	.23	90	.04	6	1.13	.01	.15	1	1
TNT 35+00E 52+50N	3	26	8	72	.1	8	7	670	1.46	2	5	ND	18	66	.2	2	2	30	.47	.029	42	9	.26	171	.06	5	1.69	.01	.21	1	4
TNT 35+00E 52+25N	1	55	17	93	.1	11	9	678	1.94	5	5	ND	19	78	.2	2	2	35	.75	.050	58	16	.48	149	.03	6	2.26	.01	.24	1	4
TNT 35+00E 52+00N	2	250	17	109	.1	12	28	1307	5.34	8	5	ND	7	45	.2	2	2	90	.69	.091	30	23	1.12	174	.04	9	2.53	.01	.33	1	20
TNT 35+00E 51+75N	1	15	4	38	.1	5	4	348	.65	3	5	ND	13	58	.2	2	2	11	1.30	.012	30	6	.18	74	.02	3	.62	.01	.09	1	2
TNT 35+00E 51+50N	2	107	11	50	.1	7	14	567	2.34	4	5	ND	11	210	.2	2	2	50	4.48	.068	35	10	.76	67	.02	5	1.13	.01	.10	1	6
TNT 35+00E 51+25N	1	165	8	63	.1	8	18	1157	3.92	4	5	ND	6	188	.2	2	2	84	2.86	.121	26	15	1.04	170	.02	21	1.83	.01	.20	1	5
TNT 35+00E 51+00N	1	230	5	73	.1	12	24	1233	5.00	2	5	ND	3	206	.2	2	2	108	1.85	.155	19	21	1.17	197	.04	17	2.21	.01	.30	1	8
TNT 36+00E 56+00N	2	12	7	43	.1	3	3	224	.90	3	5	ND	28	72	.2	2	2	16	.29	.025	58	8	.30	102	.07	6	.95	.01	.19	1	4
TNT 36+00E 55+75N	1	9	11	58	.1	6	6	476	.98	2	5	ND	14	44	.2	2	2	18	.30	.018	37	6	.26	97	.07	2	1.30	.01	.20	1	2
TNT 36+00E 55+50N	1	8	12	51	.1	6	4	280	.79	2	5	ND	20	38	.2	2	2	17	.26	.022	51	8	.28	58	.08	2	.99	.01	.20	1	1
TNT 36+00E 55+25N	1	20	11	65	.1	8	6	506	1.52	2	5	ND	10	42	.2	2	2	33	.39	.028	32	11	.24	138	.08	10	1.45	.01	.24	1	1
TNT 36+00E 55+00N	2	27	11	99	.1	10	6	475	1.63	3	5	ND	7	54	.2	2	2	38	.63	.049	28	15	.19	169	.09	10	1.63	.01	.19	1	2
TNT 36+00E 54+75N	6	38	18	129	.1	9	6	519	1.53	2	5	ND	10	88	.2	2	2	47	.73	.066	43	13	.17	328	.09	9	2.16	.01	.19	1	2
TNT 36+00E 54+50N	1	26	13	61	.1	7	5	350	1.72	3	5	ND	6	43	.2	2	2	41	.43	.043	26	13	.22	126	.09	4	1.60	.01	.14	1	1
TNT 36+00E 54+25N	1	22	13	74	.1	7	6	482	1.61	2	5	ND	8	47	.2	2	2	34	.52	.046	28	11	.23	142	.08	6	1.56	.01	.18	1	2
TNT 36+00E 54+00N	2	29	14	114	.1	9	6	626	1.61	3	5	ND	8	54	.2	2	2	33	.58	.051	26	14	.21	190	.09	9	1.61	.01	.21	1	1
TNT 36+00E 53+75N	3	33	17	91	.1	10	7	693	1.59	4	5	ND	11	52	.2	2	2	41	.52	.047	37	12	.23	176	.09	7	1.75	.01	.16	1	1
TNT 36+00E 53+50N	5	37	13	75	.1	13	7	586	1.96	5	5	ND	14	70	.4	2	2	59	.60	.063	46	17	.22	212	.10	8	1.70	.01	.18	1	2
TNT 36+00E 53+25N	6	42	16	89	.2	9	7	554	1.89	6	5	ND	14	79	.3	2	2	58	.53	.062	42	15	.19	249	.11	7	1.67	.01	.17	1	1
TNT 36+00E 53+00N	5	36	16	107	.1	9	6	512	1.70	2	5	ND	11	84	.2	2	2	44	.62	.071	37	13	.18	270	.09	5	1.83	.01	.21	1	1
TNT 36+00E 52+75N	9	50	14	107	.1	10	7	538	1.71	7	5	ND	15	114	.2	2	2	52	.72	.056	47	12	.20	268	.09	10	1.73	.01	.24	1	1
TNT 36+00E 52+50N	2	321	16	101	.2	10	18	943	4.06	8	5	ND	9	46	.2	2	2	65	.60	.093	35	21	.81	153	.05	7	2.34	.01	.22	1	22
STANDARD C/AU-S	18	57	45	129	6.5	68	31	1051	3.74	41	18	8	37	47	18.0	15	23	58	.48	.094	39	55	.86	175	.08	34	1.88	.06	.14	13	48

ICP - .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 SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: P1-P5 Soil P6 Rock AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: MAY 9 1990 DATE REPORT MAILED: May 15/90. SIGNED BY. C. Leong D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

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	Au* ppb
NT 36+00E 52+25N	1	257	10	62	.2	9	23	1047	5.43	11	5	ND	1	149	.2	6	2	165	2.22	.176	8	22	2.14	39	.07	9	2.85	.01	.09	1	5
NT 36+00E 52+00N	1	219	10	94	.2	13	26	1241	6.45	2	5	ND	1	74	.2	5	3	144	1.35	.160	12	34	2.26	150	.02	10	3.32	.01	.25	1	11
NT 36+00E 51+75N	2	309	12	103	.1	11	35	1365	6.14	12	5	ND	1	68	.4	8	2	128	1.35	.180	15	28	2.12	89	.02	9	3.23	.01	.22	1	15
NT 36+00E 51+50N	1	308	9	44	.1	5	19	1108	4.63	6	5	ND	2	94	.2	4	3	120	7.87	.160	13	12	1.61	45	.01	6	2.50	.01	.10	1	3
NT 36+00E 51+25N	1	234	9	71	.1	13	27	1461	6.00	11	5	ND	2	63	.2	4	4	138	1.69	.189	18	32	1.43	251	.02	14	2.60	.01	.20	1	20
NT 36+00E 51+00N	1	118	6	80	.1	9	14	1218	3.80	6	5	ND	5	83	.2	2	7	88	1.08	.157	18	18	.81	211	.04	9	2.04	.01	.27	1	5
NT 37+00E 56+00N	1	36	9	142	.1	7	6	748	1.81	3	5	ND	2	66	.5	2	2	40	.86	.104	18	12	.20	243	.10	6	1.72	.01	.17	1	3
NT 37+00E 55+75N	5	38	14	170	.1	10	7	720	1.74	5	5	ND	6	77	.5	2	4	43	.73	.112	29	13	.18	252	.10	8	1.94	.01	.21	1	1
NT 37+00E 55+50N	5	32	11	124	.1	7	6	571	1.55	5	5	ND	7	53	1.0	2	2	44	.50	.078	27	14	.17	220	.11	5	1.77	.01	.17	1	3
NT 37+00E 55+25N	4	35	8	139	.1	10	6	631	1.57	6	5	ND	6	70	.2	2	3	42	.70	.092	26	14	.19	257	.10	7	1.72	.01	.18	1	5
NT 37+00E 55+00N	2	33	11	100	.1	8	7	511	1.81	5	5	ND	6	57	.2	2	2	45	.64	.095	24	12	.20	228	.11	4	1.81	.01	.18	1	6
NT 37+00E 54+75N	2	40	16	117	.1	8	8	652	2.05	3	5	ND	5	56	.7	2	2	56	.63	.090	24	14	.24	207	.12	2	1.87	.01	.17	2	3
NT 37+00E 54+50N	3	42	9	163	.1	8	7	681	1.70	4	5	ND	7	88	.4	2	2	41	1.07	.102	29	14	.23	280	.09	6	1.74	.01	.22	1	6
NT 37+00E 54+25N	2	37	14	119	.1	7	7	647	1.63	9	5	ND	6	60	.2	2	2	41	.69	.093	21	11	.20	242	.11	5	1.66	.01	.17	1	32
NT 37+00E 54+00N	2	32	12	156	.1	9	6	625	1.43	2	5	ND	3	70	.2	2	2	31	.81	.099	22	10	.18	280	.08	6	1.60	.01	.22	1	2
NT 37+00E 53+75N	2	33	5	85	.1	7	6	481	1.82	4	5	ND	6	49	.3	2	2	43	.58	.079	22	11	.18	192	.11	4	1.61	.01	.17	1	3
NT 37+00E 53+50N	3	35	10	154	.1	9	7	657	1.57	2	5	ND	5	97	.5	2	2	35	.89	.130	24	12	.20	298	.09	4	1.63	.01	.22	1	1
NT 37+00E 53+25N	2	36	12	63	.1	9	7	420	1.73	5	5	ND	7	49	.2	2	2	47	.51	.081	25	15	.21	162	.10	4	1.19	.01	.15	3	1
NT 37+00E 53+00N	3	36	16	96	.1	9	8	561	1.99	4	5	ND	5	52	.3	2	2	50	.54	.086	26	12	.20	197	.11	2	1.45	.01	.17	1	3
NT 37+00E 52+75N	2	157	15	91	.2	8	12	714	3.23	4	5	ND	4	52	.3	2	7	59	.70	.114	21	14	.42	204	.10	3	2.19	.01	.23	1	5
NT 37+00E 52+50N	3	369	2	114	.4	8	20	1442	5.06	6	5	ND	2	49	.2	2	4	77	1.23	.154	22	16	1.12	128	.04	11	2.63	.01	.27	1	25
NT 37+00E 52+25N	1	229	12	117	.2	19	22	1383	6.14	6	5	ND	1	90	.2	3	5	114	4.18	.124	16	42	1.62	69	.02	7	2.64	.01	.19	1	15
NT 37+00E 52+00N	2	492	20	216	.6	51	38	1734	8.10	12	5	ND	2	45	2.1	5	2	154	1.18	.172	14	158	2.26	99	.05	19	3.31	.01	.22	1	42
NT 37+00E 51+75N	1	137	14	87	.1	13	15	1071	3.94	2	5	ND	4	84	.4	2	2	81	.80	.118	22	27	.87	178	.07	5	2.69	.01	.28	1	8
NT 37+00E 51+50N	1	60	10	117	.1	10	9	883	2.45	3	5	ND	4	79	.2	2	3	47	.87	.097	18	17	.40	252	.10	6	2.18	.01	.30	1	3
NT 37+00E 51+25N	1	99	5	68	.1	13	11	1457	2.90	4	5	ND	5	65	.3	2	2	64	.76	.102	18	20	.49	223	.09	5	1.78	.01	.22	1	3
NT 37+00E 51+00N	1	46	8	65	.1	6	7	619	2.49	3	5	ND	4	71	.2	2	2	54	.58	.061	16	16	.31	162	.10	4	1.52	.01	.19	1	3
NT 38+00E 56+00N	3	23	10	117	.1	7	6	585	1.77	4	5	ND	6	44	.2	2	4	36	.46	.053	22	11	.20	198	.12	3	1.69	.01	.19	1	1
NT 38+00E 55+75N	2	33	7	124	.1	8	6	684	1.81	3	5	ND	3	60	.4	2	5	39	.78	.106	18	10	.19	219	.10	8	1.79	.01	.18	1	4
NT 38+00E 55+50N	4	38	9	173	.1	15	7	724	1.84	5	5	ND	8	72	.3	2	2	45	.60	.099	33	15	.22	263	.12	6	2.48	.01	.23	1	10
NT 38+00E 55+25N	2	32	14	172	.1	10	7	643	1.88	2	5	ND	4	58	.5	2	2	40	.57	.098	24	13	.21	317	.12	3	2.16	.02	.21	1	2
NT 38+00E 55+00N	3	36	12	153	.1	10	6	535	1.77	3	5	ND	6	77	.5	2	2	40	.82	.126	28	15	.22	295	.10	5	1.93	.01	.24	2	4
NT 38+00E 54+75N	1	39	11	118	.1	11	8	763	1.84	2	5	ND	4	85	.4	2	2	43	.88	.119	23	15	.25	226	.09	5	1.65	.01	.17	1	3
NT 38+00E 54+50N	1	36	9	120	.1	6	7	662	1.87	2	5	ND	6	71	.5	2	2	44	.84	.096	21	12	.22	223	.10	4	1.53	.01	.21	2	3
NT 38+00E 54+25N	1	31	9	79	.1	8	6	483	1.81	4	5	ND	5	46	.2	2	2	42	.62	.075	22	13	.22	163	.10	8	1.52	.01	.18	1	2
NT 38+00E 54+00N	2	31	18	88	.1	7	5	400	1.67	2	5	ND	7	46	.4	2	3	41	.59	.069	24	15	.16	183	.10	5	1.53	.01	.17	1	1
STANDARD C/AU-S	17	57	39	129	6.5	67	30	1050	3.81	36	17	7	37	48	18.5	15	21	58	.50	.094	37	53	.89	176	.08	33	1.92	.06	.14	11	46

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	Au* ppb
TNT 38+00E 53+75N	3	33	8	111	.1	8	5	701	1.60	3	5	ND	3	55	.7	2	2	33	.71	.087	19	11	.19	246	.09	10	1.76	.01	.16	1	1
TNT 38+00E 53+50N	2	31	12	68	.1	6	6	437	1.93	2	5	ND	5	47	.2	2	2	47	.51	.067	21	11	.17	182	.11	7	1.64	.01	.15	1	2
TNT 38+00E 53+25N	2	33	4	68	.1	7	6	457	1.92	3	5	ND	5	54	.2	2	4	47	.56	.087	22	13	.17	197	.11	9	1.57	.01	.17	1	1
TNT 38+00E 53+00N	3	31	12	98	.1	8	5	612	1.68	2	5	ND	6	82	.5	2	2	34	.55	.074	27	11	.17	287	.10	7	1.78	.01	.20	1	2
TNT 38+00E 52+75N	2	40	16	131	.1	11	7	643	1.88	2	5	ND	5	86	.3	2	2	37	.67	.100	32	14	.22	354	.11	8	2.17	.01	.24	2	2
TNT 38+00E 52+50N	3	1396	18	124	1.2	8	21	1155	5.38	6	5	ND	3	63	.2	2	2	84	.73	.149	21	19	1.09	145	.05	7	2.49	.01	.30	1	60
TNT 38+00E 52+25N	1	337	2	54	.3	16	20	1434	7.02	8	5	ND	1	271	.2	2	2	146	6.39	.230	5	21	.88	21	.05	21	1.92	.01	.03	1	6
TNT 38+00E 52+00N	1	331	2	75	.2	53	32	1066	6.84	17	5	ND	1	65	.2	2	2	137	1.09	.146	9	138	1.72	89	.13	14	2.96	.01	.20	1	9
TNT 38+00E 51+75N	1	105	7	97	.1	13	13	830	2.88	2	5	ND	3	93	.2	2	2	58	.80	.089	19	26	.61	214	.09	12	2.47	.01	.33	1	1
TNT 38+00E 51+50N	1	122	13	90	.1	13	13	838	3.61	4	5	ND	5	69	.5	2	2	80	.86	.091	20	25	.76	162	.12	5	2.13	.01	.30	1	5
TNT 38+00E 51+25N	1	58	8	67	.1	7	10	1349	2.02	2	5	ND	1	218	.2	2	2	42	1.10	.086	15	12	.37	128	.08	17	1.38	.01	.22	1	2
TNT 38+00E 51+00N	1	94	2	57	.1	9	10	461	2.52	2	5	ND	5	52	.2	2	2	59	.69	.080	19	15	.44	137	.07	5	1.41	.01	.15	1	2
TNT 44+00E 56+00N	1	31	2	38	.1	7	7	323	1.56	2	5	ND	6	45	.2	2	2	36	.42	.037	23	15	.30	107	.08	4	1.14	.01	.15	1	1
TNT 44+00E 55+75N	1	398	8	90	.2	12	25	941	5.45	5	5	ND	2	85	.2	2	2	119	1.32	.210	23	30	1.35	280	.03	13	2.29	.01	.29	1	26
TNT 44+00E 55+50N	5	268	2	44	.2	14	22	1137	5.30	4	5	ND	2	50	.2	2	2	95	2.53	.115	25	29	1.13	359	.01	4	2.45	.01	.13	1	13
TNT 44+00E 55+25N	1	92	8	56	.1	9	10	564	3.01	2	5	ND	4	82	.2	2	3	64	.65	.060	19	17	.51	195	.11	6	2.57	.01	.22	1	2
TNT 44+00E 55+00N	1	244	5	55	.1	11	22	701	4.62	2	5	ND	2	162	.2	2	2	108	.92	.127	16	39	1.27	159	.07	6	2.73	.01	.26	1	2
TNT 44+00E 54+75N	1	146	13	66	.1	9	16	592	3.55	3	5	ND	2	78	.2	2	3	72	.77	.126	16	17	.66	192	.10	9	2.25	.01	.32	1	4
TNT 44+00E 54+50N	1	229	12	61	.1	9	21	658	4.60	4	5	ND	2	59	.2	2	2	84	.81	.150	20	16	.87	228	.07	5	2.34	.01	.37	1	4
TNT 44+00E 54+25N	1	241	12	57	.1	8	20	678	4.55	5	5	ND	1	67	.2	2	6	97	.89	.152	14	21	.96	241	.08	4	2.43	.01	.34	1	2
TNT 44+00E 54+00N	2	290	7	58	.1	10	27	660	5.86	8	5	ND	2	65	.2	2	2	120	.78	.162	19	20	1.11	196	.07	8	2.70	.01	.40	1	3
TNT 44+00E 53+75N	1	75	11	73	.1	10	10	609	2.81	4	5	ND	1	63	.2	2	2	60	.72	.116	13	15	.43	202	.12	5	2.22	.02	.20	1	1
TNT 44+00E 53+50N	2	122	13	108	.1	11	13	950	2.55	2	5	ND	1	138	.2	2	2	54	1.16	.159	11	19	.52	256	.08	11	2.01	.02	.21	1	1
TNT 44+00E 53+25N	1	177	10	68	.1	12	14	631	3.86	4	5	ND	1	180	.3	2	3	87	.91	.118	15	26	.73	136	.11	12	2.31	.02	.26	1	11
TNT 44+00E 53+00N	1	105	5	52	.1	10	10	401	3.02	2	5	ND	3	61	.2	2	2	70	.56	.065	17	22	.43	118	.12	8	1.80	.01	.16	1	8
TNT 45+00E 56+00N	3	159	9	123	.1	9	14	1293	2.70	2	5	ND	1	77	.2	2	2	57	1.01	.127	14	15	.51	278	.08	11	2.00	.01	.26	1	7
TNT 45+00E 55+75N	1	187	5	112	.2	15	18	1226	4.00	2	5	ND	2	70	.2	2	3	87	.97	.112	15	32	.81	283	.13	10	2.39	.02	.27	1	6
TNT 45+00E 55+50N	1	200	8	82	.1	13	17	1365	4.07	3	5	ND	2	51	.2	2	2	81	.79	.111	18	25	.86	194	.08	6	2.22	.01	.26	1	12
TNT 45+00E 55+25N	1	130	17	81	.1	11	13	1142	3.31	7	5	ND	2	56	.2	2	4	70	.84	.102	16	20	.63	169	.10	9	1.88	.01	.23	1	16
TNT 45+00E 55+00N	1	149	4	67	.1	10	12	747	3.41	2	5	ND	3	50	.2	2	2	78	.74	.097	17	22	.68	115	.09	5	1.58	.01	.20	1	30
TNT 45+00E 54+75N	1	104	7	83	.1	11	11	899	2.90	2	5	ND	3	57	.2	2	2	63	.82	.089	17	19	.46	181	.11	9	1.86	.01	.28	1	3
TNT 45+00E 54+50N	1	392	17	42	.1	8	32	622	7.34	8	5	ND	2	71	.2	2	2	137	2.23	.170	22	17	1.71	339	.02	13	2.52	.01	.30	1	21
TNT 45+00E 54+25N	1	308	9	68	.1	9	22	766	4.60	6	5	ND	2	51	.2	2	5	107	1.83	.122	21	22	1.27	202	.05	12	2.59	.01	.19	1	14
TNT 45+00E 54+00N	1	302	10	130	.4	31	35	1278	8.58	17	5	ND	1	53	.2	6	2	190	8.22	.109	22	97	2.91	28	.01	7	3.02	.01	.05	1	21
TNT 45+00E 53+75N	1	157	11	90	.1	6	10	647	2.31	2	5	ND	1	92	.2	2	2	49	.98	.122	15	12	.41	238	.06	5	1.42	.02	.20	1	6
TNT 45+00E 53+50N	1	35	8	65	.1	6	6	453	1.42	2	5	ND	1	78	.2	2	2	29	.65	.069	17	8	.23	225	.06	8	1.28	.01	.16	1	2
STANDARD C/AU-S	18	57	43	130	7.1	68	31	1058	3.74	37	18	8	37	47	16.8	15	22	58	.49	.093	38	58	.88	175	.08	35	1.88	.06	.14	11	47

AMPLE#	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	Au* ppb
NT 45+00E 53+25N	2	103	7	52	.1	6	9	517	2.56	2	5	ND	5	50	.3	2	2	55	.67	.080	17	16	.31	184	.10	5	1.36	.01	.20	1	1
NT 45+00E 53+00N	1	43	4	50	.1	6	6	454	2.25	2	5	ND	3	46	.4	2	2	51	.58	.076	14	12	.25	136	.09	6	1.11	.01	.16	1	3
NT 46+00E 56+00N	1	194	7	109	.2	10	16	1309	3.66	2	5	ND	2	47	.5	2	2	77	.65	.097	18	18	.55	217	.10	7	2.34	.01	.23	1	20
NT 46+00E 55+75N	2	150	5	86	.3	7	13	733	5.61	6	5	ND	1	116	.2	2	2	88	.68	.129	15	17	.61	280	.06	5	1.73	.05	.41	1	2
NT 46+00E 55+50N	1	886	13	232	.9	11	34	2562	7.47	2	5	ND	1	45	.3	2	2	172	1.07	.160	25	31	1.69	191	.04	6	2.99	.01	.24	1	21
NT 46+00E 55+25N	6	292	9	168	.1	7	18	1792	4.00	2	5	ND	2	78	.9	2	2	96	.90	.110	15	21	.93	267	.06	10	2.32	.02	.40	1	3
NT 46+00E 55+00N	2	352	2	100	.2	12	18	1159	3.94	2	5	ND	1	65	.2	2	2	96	.90	.131	15	22	.83	337	.06	3	2.03	.01	.32	1	8
NT 46+00E 54+75N	2	81	5	85	.1	8	8	760	1.85	4	5	ND	3	80	.4	2	2	39	1.06	.113	17	13	.37	216	.05	9	1.14	.01	.21	1	2
NT 46+00E 54+50N	3	529	10	109	.4	13	27	1195	5.54	2	5	ND	2	60	.2	2	2	128	1.29	.250	25	36	1.36	357	.02	7	2.03	.01	.26	1	23
NT 46+00E 54+25N	2	581	5	105	.4	15	28	1169	6.42	2	5	ND	2	59	.3	3	2	149	1.44	.274	27	37	1.60	322	.02	7	2.21	.01	.22	1	30
NT 46+00E 54+00N	3	503	9	117	.3	15	25	1175	5.18	6	5	ND	2	68	.2	2	2	121	1.37	.243	25	31	1.31	344	.03	10	2.05	.01	.25	1	21
NT 46+00E 53+75N	3	520	9	121	.4	13	25	1193	5.38	2	5	ND	2	69	.2	2	2	125	1.38	.250	24	33	1.35	352	.03	8	2.08	.01	.25	1	44
NT 46+00E 53+50N	1	47	3	103	.1	6	7	805	1.79	2	5	ND	1	85	.3	2	2	38	1.15	.140	11	10	.26	241	.07	10	1.35	.01	.15	1	2
NT 46+00E 53+25N	1	47	11	90	.1	6	7	730	2.10	2	5	ND	1	63	.5	2	2	45	.86	.110	13	11	.28	196	.08	5	1.44	.01	.15	1	1
NT 46+00E 53+00N	2	170	6	57	.1	6	11	499	2.87	2	5	ND	2	101	.3	2	2	57	.77	.133	15	10	.43	196	.06	6	1.31	.02	.18	1	21
NT 47+00E 56+00N	2	307	69	641	.9	10	30	2784	7.91	7	5	ND	2	42	3.4	2	2	187	.90	.112	25	21	1.40	228	.05	5	3.10	.01	.32	2	36
NT 47+00E 55+75N	1	251	48	516	.5	11	28	2914	7.43	8	5	ND	3	48	3.7	2	2	174	.88	.099	28	20	1.27	274	.05	7	3.11	.01	.33	1	27
NT 47+00E 55+25N	1	153	2	220	.2	11	18	2154	6.33	2	5	ND	2	54	.4	2	2	129	.75	.061	16	20	1.42	184	.08	4	3.40	.01	.36	1	8
NT 47+00E 55+00N	1	439	5	172	.1	11	22	2454	6.49	2	5	ND	2	68	.2	2	2	150	.80	.076	16	24	1.47	235	.08	2	3.26	.01	.48	1	28
NT 47+00E 54+75N	1	715	8	185	.2	8	23	2693	6.79	2	5	ND	2	73	.4	2	2	162	1.20	.115	16	20	1.72	185	.06	5	2.92	.01	.33	1	38
NT 47+00E 54+50N	1	703	2	148	.3	12	30	2001	7.66	2	5	ND	2	67	.2	2	2	187	.92	.142	17	24	1.82	307	.08	3	3.03	.01	.34	2	28
NT 47+00E 54+25N	1	517	5	67	.2	27	32	737	7.95	2	5	ND	2	64	.2	4	2	183	1.67	.159	25	89	2.10	189	.01	7	2.68	.01	.14	1	31
NT 47+00E 54+00N	1	514	2	58	.2	24	24	659	6.90	3	5	ND	3	42	.2	2	2	160	.72	.147	24	73	1.65	531	.03	3	2.37	.01	.12	1	54
NT 47+00E 53+75N	1	166	4	31	.1	11	10	326	2.92	2	5	ND	5	33	.2	2	2	77	.48	.061	16	22	.56	174	.09	3	1.17	.01	.08	1	16
NT 47+00E 53+50N	5	300	2	51	.4	8	16	452	5.82	2	5	ND	2	154	.2	2	2	105	.63	.129	16	14	1.28	207	.02	3	1.85	.04	.19	1	14
NT 47+00E 53+25N	1	162	7	87	.1	7	9	885	2.68	3	5	ND	3	73	.2	2	2	59	.68	.052	14	13	.43	184	.10	7	1.58	.01	.31	1	6
NT 47+00E 53+00N	3	177	3	57	.1	9	15	484	3.66	2	5	ND	2	93	.2	2	2	84	.66	.123	17	19	.86	225	.04	7	1.78	.02	.27	1	2
NT 48+00E 55+75N	2	145	55	234	.2	8	15	1656	3.36	2	5	ND	1	65	2.4	2	2	72	1.06	.124	20	14	.60	312	.08	7	2.39	.02	.28	1	5
NT 48+00E 55+50N	1	137	13	156	.1	7	11	1830	2.95	2	5	ND	2	53	.7	2	2	62	.74	.111	15	11	.46	306	.10	5	2.28	.02	.24	1	1
NT 48+00E 55+25N	1	157	17	154	.1	8	10	1364	3.27	2	5	ND	2	56	.3	2	2	70	.63	.082	12	13	.59	275	.13	8	2.61	.02	.27	1	1
NT 48+00E 55+00N	1	182	9	149	.1	8	13	1358	4.26	2	5	ND	2	43	.3	2	2	86	.58	.062	15	17	.64	285	.12	4	2.75	.02	.30	1	3
NT 48+00E 54+75N	1	302	98	215	.1	3	12	2027	3.17	2	5	ND	1	101	1.6	2	2	82	1.31	.086	11	12	.75	558	.10	6	2.18	.01	.27	1	2
NT 48+00E 54+50N	1	474	12	144	.2	9	14	1321	3.75	2	5	ND	3	116	.6	2	2	89	.87	.070	13	15	.85	445	.18	5	3.13	.02	.22	2	5
NT 48+00E 54+25N	1	166	23	138	.1	13	12	1264	3.11	2	5	ND	3	53	.7	2	2	67	.78	.057	17	16	.53	461	.11	4	2.43	.01	.27	1	1
NT 48+00E 54+00N	1	378	14	106	.1	14	17	1009	4.59	2	5	ND	2	58	.7	2	2	114	1.02	.116	21	30	1.01	275	.05	5	2.45	.01	.27	1	17
NT 48+00E 53+50N	2	697	8	109	.1	13	29	785	5.03	2	5	ND	3	65	.2	2	2	94	.78	.146	24	22	.95	349	.05	6	1.90	.01	.32	1	28
TANDARD C/AU-S	17	57	36	127	7.1	68	31	1049	3.88	38	19	7	37	47	18.2	15	17	58	.49	.090	38	53	.87	175	.08	34	1.82	.06	.14	13	45

AMPLE#	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	Au* ppb
NT 48+00E 53+25N	1	51	13	68	.1	5	7	640	1.67	2	5	ND	1	58	.7	2	2	37	.70	.099	12	11	.23	206	.07	3	1.13	.01	.17	1	5
NT 48+00E 53+00N	1	42	3	33	.1	8	6	434	1.84	4	5	ND	2	57	.2	2	2	43	.52	.076	13	14	.26	117	.07	2	.87	.01	.12	1	5
TANDARD C/AU-S	18	62	39	132	6.6	67	31	1055	3.76	42	17	8	37	47	18.3	15	18	58	.48	.094	38	57	.88	177	.08	35	1.81	.06	.14	11	52