

ARIS SUMMARY SHEET

District Geologist, Smithers

Off Confidential: 89.04.07

ASSESSMENT REPORT 17423

MINING DIVISION: Skeena

PROPERTY: Todd Creek
LOCATION: LAT 56 13 29 LONG 129 46 25
UTM 09 6231146 452030
NTS 104A04W 104A05W

CLAIM(S): Toc 3-15
OPERATOR(S): Noranda Ex.
AUTHOR(S): Baerg, R.J.
REPORT YEAR: 1988, 159 Pages

COMMODITIES

SEARCHED FOR: Copper, Gold

GEOLOGICAL

SUMMARY: Copper-gold mineralization occurs in north trending hematitic quartz breccia veins and stockwork zones to 15 metres wide. Host rocks are siliceous feldspar porphyry volcanics of Jurassic age. Gold values range up to 9.7 grams per tonne over 3 metres in trenches and 6.8 grams per tonne over 6.15 metres in drilling.

WORK

DONE: Geological, Geochemical, Drilling
DIAD 580.0 m 9 hole(s); NQ
Map(s) - 5; Scale(s) - 1:250
GEOL 1800.0 ha
Map(s) - 4; Scale(s) - 1:5000, 1:250
HMIN 27 sample(s); CU, PB, ZN, AG, AU
ROCK 704 sample(s); ME
Map(s) - 2; Scale(s) - 1:5000, 1:1000, 1:250
SILT 35 sample(s); ME
SOIL 48 sample(s); ME

RELATED

REPORTS: 03248, 15988
MINFILE: 104A 001

LOG NO: 0530	RD.
ACTION:	
FILE NO:	

GEOLOGICAL, GEOCHEMICAL AND DRILLING REPORT

ON THE

TODD CREEK PROPERTY
(TOC 3 - 15 CLAIMS)

FILMED

N.T.S. 104 A/04, 05

SKEENA MINING DIVISION

Situated at Coordinates: 56° 16' 40" N
129° 46' W

NORANDA EXPLORATION COMPANY, LIMITED
(NO PERSONAL LIABILITY)

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

17,423

By: Robert J. Baerg

May, 1988

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INTRODUCTION:

The Todd Creek property is situated on the eastern side of the Coast Range Mountains of British Columbia, within the Skeena Mining Division. The property was staked to cover several Cu-Au occurrences which were originally discovered by Newmont Mining Corp. in 1959. 1987 fieldwork included saw trenching and mapping the showings, regional mapping, silt and rock sampling, and diamond drilling on the South Zone.

HISTORY:

The South and North Zone showings on the property were originally discovered in 1959 by prospector's Ole Olsen and Fred Hasselberg, Jr., in the employ of Newmont Mining Corporation. Newmont conducted a limited trenching and drilling program on the zones in 1960 with inconclusive results.

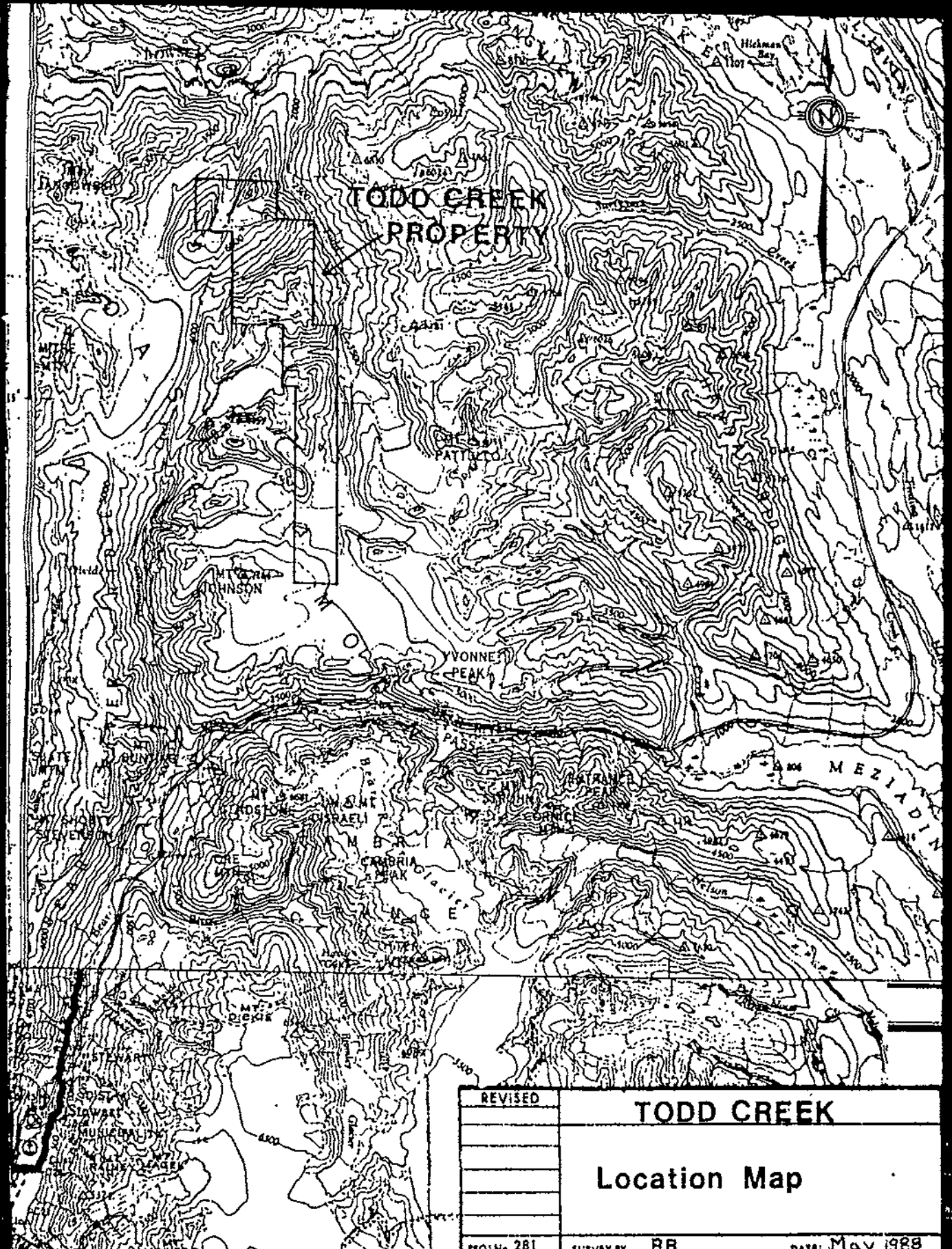
On the South Zone, a zone of chalcopyrite-pyrite stringers and hematitic quartz breccias, Newmont drilled 5 randomly spotted packsack drill holes.

In 1969, the South Zone showing was staked for Kerr Addison Mines by Wilf Christians. Kerr Addison, who recorded no work on the property, subsequently transferred title to Christians, who in turn sold the claims to C.S. Powney. During 1970-72, several trenches were blasted and sampled. In 1981, J.R. Woodcock Consultants staked the North Zone and a large altered area further north. From 1981 to 1984, Woodcock and Riocanex conducted extensive geological and geochemical programs on their claims. In 1985, Woodcock dropped everything except two units, which they currently hold.

In 1986, Noranda Exploration Company Limited staked the TOC 1-10 to cover the known showings. The TOC 11 and 12 were added later in 1986 and the TOC 13-15 in 1987.

LOCATION AND ACCESS:

The Todd Creek property is located in the Skeena Mining Division, approximately 45 km NNE of Stewart, B. C. (Figure #1) Highway #37A to Stewart passes 10 km to the south of the property. The property covers most of the western side of the Todd Creek valley and portions of Todd Creek glacier. Access to the property is via helicopter from Stewart, B. C.

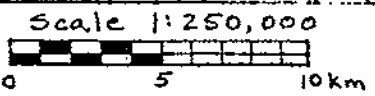


**TODD CREEK
PROPERTY**

YVONNE
PEAK

MOUNT
JOHNSON

MEZIADIA



REVISED	TODD CREEK	
	Location Map	
PROJ. No. 281	SURVEY BY: <u>RB</u>	DATE: <u>May 1988</u>
N.T.S. 104A	DRAWN BY: <u>RB</u>	SCALE: 1:250,000
DWG. No. 1	NORANDA EXPLORATION	
	OFFICE: <u>Prince George</u>	

PHYSIOGRAPHY & VEGETATION:

The property lies on the eastern flank of the Coast Range Mountains. Relief in the area is great, from 2900 feet in the valley bottom to 6800 feet on the highest summit. Todd Creek glacier and several valley glaciers occupy portions of TOC 11 and 12. The sides of the valley have extensive areas of bedrock exposure which commonly forms steep rock faces and cliffs. The valley bottom has a thick cover of glacial outwash material. Vegetation on the property consists of young willow, poplar and alder in the valley bottom, grading up slope into local stands of fir, hemlock and spruce and higher up into alpine meadows and bare rock.

CLAIM STATISTICS:

The Todd Creek property consists of 12 modified grid claims (Figure #2), as listed below:

<u>NAME</u>	<u>UNITS</u>	<u>RECORD #</u>	<u>EXPIRY DATE</u>
TOC 3	20	5305	April 9, 1989
TOC 4	20	5306	April 9, 1989
TOC 5	20	5307	April 9, 1989
TOC 6	20	5308	April 9, 1989
TOC 7	18	5309	April 9, 1989
TOC 8	18	5310	April 9, 1989
TOC 9	20	5311	April 9, 1991
TOC 10	20	5312	April 9, 1991
TOC 11	20	5518	Sept 17, 1991
TOC 12	16	5577	Oct. 28, 1991
TOC 13	20	5996	Mar. 26, 1989
TOC 14	20	5887	Mar. 26, 1989
TOC 15	20	5998	Mar. 26, 1989

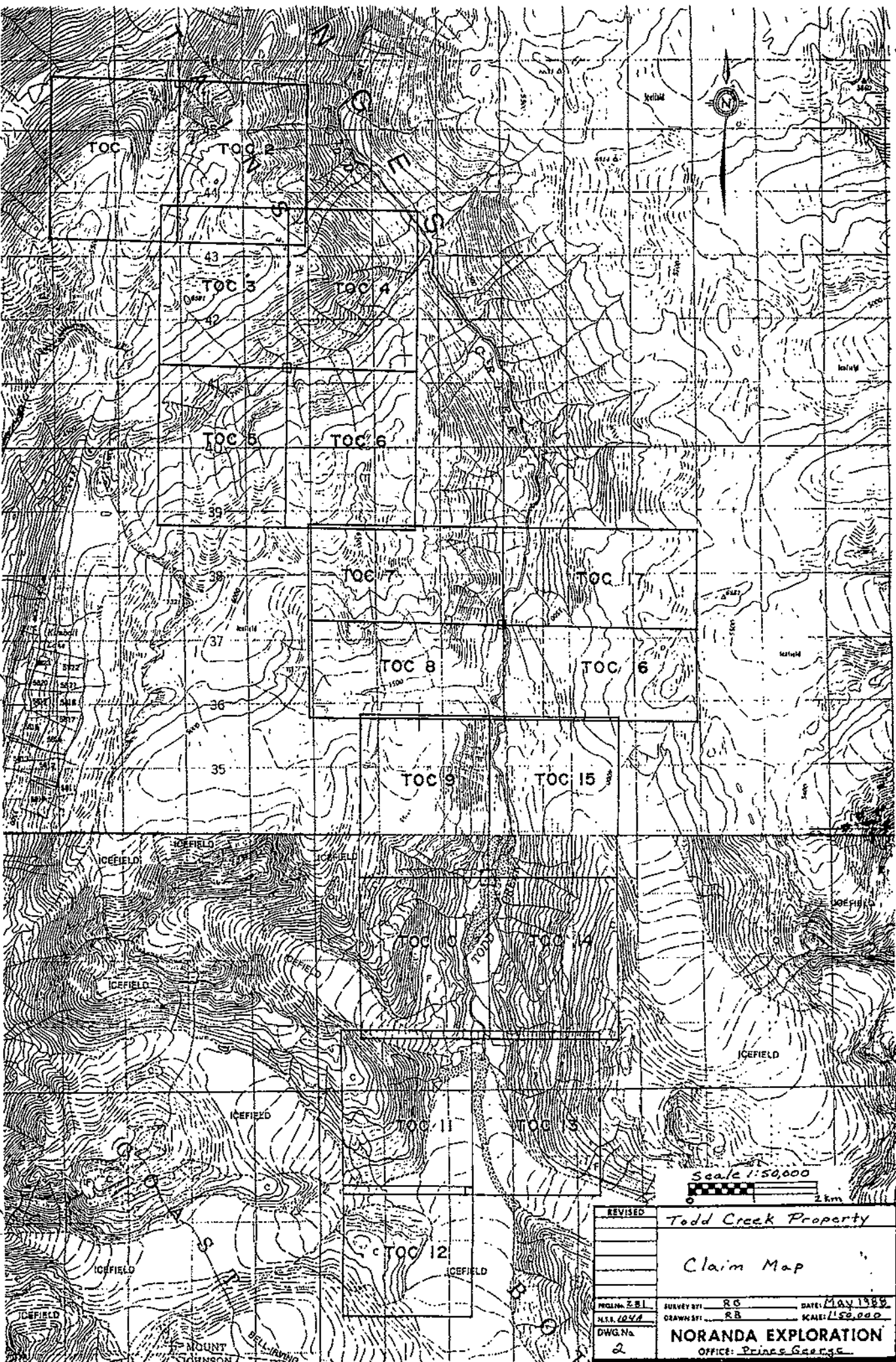
REGIONAL GEOLOGY:

The area has been mapped as being largely underlain by Lower Jurassic age Unuk River Formation volcanics and clastic sediments which are cut by numerous Jurassic and Tertiary age intrusive bodies ranging in size from narrow dykes and sills to large plutons. (Figure 3)

PROPERTY GEOLOGY:

South Zone

Geology - The South Zone is underlain by siliceous Feldspar Porphyry flows (?) which are exposed over an area 500m x 950m. (Figure 4) The porphyry flows are bounded to the west and north by dark green-grey andesite flows and agglomerate and to the south



REVISED	Todd Creek Property	
	Claim Map	
PROJ. No. 281	SURVEY BY: RC	DATE: May 1989
U.T.M. 28V4	DRAWN BY: RB	SCALE: 1:50,000
DWG. No.	NORANDA EXPLORATION	
2	OFFICE: Prince George	

SUMMARY:

The Todd Creek copper-gold property is located on the eastern flank of the Coast Range mountains approximately 45 km north northeast of Stewart, B. C. Mineralization, consisting of copper-gold bearing quartz and sulphide veins were first discovered by Newmont in 1959. Noranda staked the area of the showings in 1986 and has subsequently confirmed the presence of the copper-gold mineralization. To date, there are three main areas of interest:

1. South Zone: A copper-gold mineralized fracture zone cutting feldspar porphyry volcanics. Chip sampling on this zone in 1986 delineated an area 3m wide by 270m long, averaging 0.119 oz/T Au.

Drilling in 1987 tested the southern 175 meters of the zone. Significant intersections include 1.98 gmt Au/13.32 m (this includes 11.93 gmt Au/1.73 m), 4.10 gmt Au/2.0 m, 4.01 gmt Au/1.5 m, 3.51 gmt Au/1.38 m, 6.85 gmt Au/6.15 m, 2.84 gmt Au/9.93 m (includes 3.25 gmt/3.69 m and 3.36 gmt/2.61 m).

2. Mid Zone: A package of variably altered felsic volcanics mineralized with pyrite and minor malachite. Further prospecting and mapping located several new copper showings, but these contained no gold values. Soil/talus sampling over the northern part of the Mid Zone returned only local spotty values of little significance.

3. North Zone: Quartz breccia veins cut chloritic andesitic agglomerate. The best value from the North Zone trenches to date was 0.153 oz/T Au across 3m. A grab sample of old drill core, representing approximately 1 to 1.5 m, returned .58% Cu and .223 oz/T Au. Two of the North Zone veins were traced for over 250 meters to the south where they pinched out. Values ranged from .017 to .210 oz/T Au over 1 to 1.5 m widths.

The high grade breccia cobbles on the south side of Fall Creek were traced to the toe of a small glacier in central TOC 9 and it appears the source lies beneath the ice. A small soil grid on the south side of Fall Creek has outlined a copper-gold anomaly covering 200 m x 250 m. Values range up to 1030 ppm Cu and 360 ppb Au.

Reconnaissance silt, pan and rock sampling on the remainder of the property identified several streams which were anomalous in one or more of Au, Ag, As, Sb, Cu, Pb, Zn.

Further work is recommended on the three main areas as well as follow up on the stream and soil anomalies and continued reconnaissance work on the remainder of the property.

and east by glacial till. The western contact was not observed in outcrop, but is presumed to be a fault, while the northern contact is a sharply defined E-W trending, north dipping fault. The feldspar porphyry is pervasively altered; alteration ranging from quartz-pyrite, to quartz-sericite-pyrite, chlorite and iron-carbonate-quartz-sericite. The western 2/3 of the exposed porphyry body is predominantly quartz-pyrite altered and has a rusty yellow-brown weathered surface and is pale brown on a fresh surface. To the east, the porphyry is locally chloritic and proximal to the mineralized zone there is increased sericite alteration and locally iron-carbonate alteration. (Figure #6, 7, 8)

Mineralization - The mineralization, which consists of chalcopyrite, pyrite, specular hematite and malachite, is hosted in a 5 to 15m wide north-northeast trending, steeply west dipping fracture zone, which cuts the eastern flank of the exposed feldspar porphyry body. This zone has been traced for at least 900m. Mineralization occurs along the southern 425m and the northern 100m of the exposed portions of the zone. There are two types of mineralization within the fracture system:

1. massive pyrite-chalcopyrite stringers and veins from less than 1cm to 10cm wide, and,
2. a zone of quartz-hematite-chalcopyrite stringers and breccia veins to 3m wide.

Typically the zone consists of one or two larger quartz breccia veins separated by a stockwork of narrow quartz-hematite veins. The larger quartz breccia veins occur along the footwall and hanging wall of the zone. Above the main zone, moving into the hanging wall, is a zone of silica-sericite-chlorite alteration with minor quartz-hematite and/or pyrite +/- hematite stringers. The amount of pyrite veining was observed to increase from south to north.

Geochemically, the two types of mineralization are distinct; the pyrite-chalcopyrite veins generally have distinctly higher Mo, Cu and As values and lower Au values than the quartz breccia veins.

Prospecting to the west of the above mentioned zone revealed several local, narrow, quartz-chalcopyrite veins. These do not appear to have much significance. As well, silt samples collected in the western area did not define any new anomalous areas.

Trenching - A total of 11 saw trenches were completed on the south end of the South Zone. The trenches were cut using a Stihl TS350 rock saw equipped with a diamond blade. Two parallel cuts, 5cm deep and 2.5-4 cm apart, were made and the sample material was then chipped out with a chisel and hammer. Table 1 lists the significant trench results.



REVISED	TODD CREEK	
	Regional Geology (after Grove, 1982)	
PROJ.No. 281	SURVEY BY: R. Baerg	DATE: May 1988
N.T.S. 104 A	DRAWN BY: R. Baerg	SCALE: 1:100,000
DWG.No. 3	NORANDA EXPLORATION	
	OFFICE: Prince George	



Province of British Columbia
Ministry of Energy, Mines and Petroleum Resources

GEOLOGY OF THE UNUK RIVER - SALMON RIVER - ANYOX MAP AREA

0 10
KILOMETRES
SCALE - 100000

LEGEND

SEDIMENTARY AND VOLCANIC ROCKS

QUATERNARY

RECENT

20 UNCONSOLIDATED DEPOSITS, RIVER FLOODPLAIN, ESTUARINE RIVER CHANNEL AND TERRACES ALLUVIAL SANDS, BELTAS AND BEACHES, BUTYRN, GLACIAL LAKE SEDIMENTS, TILL, FEAT, LANSILIBRE, VOLCANIC ASH, HOTSPRING DEPOSITS

19 BASALT FLOWS (L), CINBERS, ASH (L)

PLEISTOCENE AND RECENT

18 BASALT FLOWS

JURASSIC

HATELTON GROUP

UPPER JURASSIC

MASS FORMATION

17 SILTSTONE, GREYSHALE SANDSTONE, SOME CALCARENITE, ARGIL LITE, CONGLOMERATE, MINOR LIMESTONE, MINOR COAL INCLUDING EQUIVALENT SHALE, PHYLLITE, AND SCHIST

MIDDLE JURASSIC

SALMON RIVER FORMATION

16 SILTSTONE, GREYSHALE, SANDSTONE, SOME CALCARENITE MINOR LIMESTONE, ARGILLITE, CONGLOMERATE, LITIGIAL DEPOSITS

15 MUYOLITE, MUYOLITE BRECCIA, CRYSTAL AND LITHIC TUFF

BETTY CREEK FORMATION

14 FILLON LAVA, BROKEN FILLON BRECCIA (L) ANDREITIC AND BASAL TIC FLOWS (L)

13 GREEN, RED, PURPLE, AND BLACK VOLCANIC BRECCIA, CONGLOMERATE, SANDSTONE, AND SILTSTONE (L); CRYSTAL AND LITHIC TUFF (L); SILTSTONE (L); MINOR CHERT AND LIMESTONE (L) CLUSTERS SOME LAVA (L) (L)

LOWER JURASSIC

UNUK RIVER FORMATION

12 GREEN RED AND PURPLE VOLCANIC BRECCIA, CONGLOMERATE, SANDSTONE, AND SILTSTONE (L); CRYSTAL AND LITHIC TUFF (L); SANDSTONE (L); CONGLOMERATE (L); LIMESTONE (L); CHERT (L) MINOR COAL (L)

11 FILLON LAVA (L); VOLCANIC FLOWS (L)

TRIASSIC

UPPER TRIASSIC

TAKLA GROUP (H)

10 SILTSTONE, SANDSTONE, CONGLOMERATE (L); VOLCANIC SILT STONE, SANDSTONE, CONGLOMERATE (L) AND SOME BRECCIA (L); CRYSTAL AND LITHIC TUFF (L); LIMESTONE (L)

PLUTONIC ROCKS

OLIGOCENE AND YOUNGER

9 DYKE AND GULL (BARNUM), MONITE (L), QUARTZ MONITE (L), GRANODIORITE (L), BASALT (L)

Eocene (Stokes, etc) AND OLDER

8 QUARTZ DIORITE (L), GRANODIORITE (L), MONITE (L), QUARTZ MONITE (L); ALKALI DIORITE (L); FELDSPAR PORPHYRY (H)

7 COAST PLUTONIC COMPLEX GRANODIORITE (L), QUARTZ DIORITE (L); QUARTZ MONITE (L); SOME GRANITE (L); MICHALITE - AGMATITE (L)

JURASSIC

MIDDLE JURASSIC AND YOUNGER ?

6 MONITE (L); DIORITE (L); SYENODIORITE (L); MONITE (L); ALASKITE (L)

LOWER JURASSIC AND YOUNGER ?

5 MONITE (L); SYENODIORITE (L); SYENITE (L)

TRIASSIC

UPPER TRIASSIC AND YOUNGER ?

4 MONITE (L); QUARTZ DIORITE (L); GRANODIORITE (L)

HORNBLende PREDOMINANT H
BIOTITE PREDOMINANT B

METAMORPHIC ROCKS

TERTIARY

3 HORNFELS (L); PHYLLITE, SCHIST (L); SOME GNEISS (L)

JURASSIC

2 HORNFELS (L); PHYLLITE, SEMI-SCHIST, SCHIST (L); GNEISS (L); CATACLASTIC, MYLONITE (L); TACTITE (L)

TRIASSIC

1 SCHIST (L); GNEISS (L); CATACLASTIC MYLONITE (L)

HORNBLende OR AMPHIBOLE DEVELOPED H
BIOTITE DEVELOPED B
POTASSIUM FELDSPAR DEVELOPED K

AREA UNMAPPED

SYMBOLS

ARIT	.....	.....	.....	.....	.....
ANTICLINE (NORMAL, OVERTURNED)	.....	.....	.....	.....	.....
BEDDING (HORIZONTAL, INCLINED, VERTICAL, CONTORTED)	.....	.....	.....	.....	.....
BOUNDARY MONUMENT	.....	.....	.....	.....	.....
CONTOUR (INTERVAL 1,000 FEET)	.....	.....	.....	.....	.....
FAULT (DEFINED, APPROXIMATE)	.....	.....	.....	.....	.....
FAULT (THRUST)	.....	.....	.....	.....	.....
FAULT MOVEMENT (APPARENT)	.....	.....	.....	.....	.....
FOLD AXIS MINERAL LINEATION (HORIZONTAL, INCLINED)	.....	.....	.....	.....	.....
FRESH LOCALITY	.....	.....	.....	.....	.....
GEOLOGICAL CONTACT (DEFINED, APPROXIMATE)	.....	.....	.....	.....	.....
GLACIAL STRIAE	.....	.....	.....	.....	.....
GRAVEL, SAND, OR MUD	.....	.....	.....	.....	.....
HEIGHT IN FEET ABOVE MEAN SEA LEVEL	.....	.....	.....	.....	.....
INTERNATIONAL BOUNDARY	.....	.....	.....	.....	.....
JOINT SYSTEM (INCLINED, VERTICAL)	.....	.....	.....	.....	.....
MARSH	.....	.....	.....	.....	.....
MINING PROPERTY	.....	.....	.....	.....	.....
RIDGE TOP	.....	.....	.....	.....	.....
SCHISTOSITY (INCLINED, VERTICAL)	.....	.....	.....	.....	.....
SYNCLINE (NORMAL, OVERTURNED)	.....	.....	.....	.....	.....
TUNNEL	.....	.....	.....	.....	.....
VOLCANIC CONE	.....	.....	.....	.....	.....

TABLE 1:

TRENCH #	SAMPLE #	WIDTH (m)	Au (gmt)
23	9263	1.0	.75
	9269	0.6	.55
	9274	1.0	.75
	9275	1.1	.99
24	9260	2.7	1.78
25	9277	1.0	.93
	9278	1.0	3.26
	9279	1.0	.62
25	9280	1.0	.69
26	9282	1.1	.62
	9283	1.0	.62
	9284	1.0	.62
	9285	1.0	1.82
	9286	1.0	3.15
	9294	1.0	.58
29	9321	1.0	2.06
	9323	1.0	.72
	9324	1.3	.82
1	9327	1.0	.65
13	9316	0.9	8.81
13	9317	1.0	.34

Weighted Averages:

Trench 25	9277-80	1.38 gmt/4.0 m
Trench 26	9282-86	1.34 gmt/5.1 m
Trench 29	9321-24	1.09 gmt/3.3 m
Trench 13	9316-17	4.35 gmt/1.9 m

Drilling - A total of 9 drill holes, 1904 feet, were completed in 1987. The drilling was contracted out to Van Alphen Exploration Services, Smithers, B.C.

Drilling has confirmed that the mineralized zone continues to depth and has a fairly uniform westerly dip of 60-75 degrees. (Figures 11-15). The mineralized zone almost always consists of a footwall and hanging wall quartz-hematite breccia vein with a stockwork zone of quartz-hematite veins between. The hanging wall is marked by a zone, of variable width, of silica-chlorite-sericite alteration with varying amounts of quartz-hematite and/or pyrite-hematite veining. As indicated by surface mapping pyrite content increases from south to north. Flow banding observed in the drill core appears to confirm that the host rocks are indeed volcanic in origin. Table 2 lists the significant drill results.

TABLE 2:

HOLE #	SAMPLE #	WIDTH (m)	Au (gmt)	Cu (%)	Weighted Averages (Au)
1	16004	1.43	.72	.08	
1	16026	1.23	.72	.20	
2	16031	2.76	.82	.10	
	16035	.50	.82	.03	
	16042	1.00	.86	.06	
	16045	1.00	.51	.04	
	16049	1.00	.55	.01	
	16052	.86	.99	.32	2.25/1.36 m
	16053	.50	4.42	.38	
	16057	1.50	4.59	.24	4.10/2.00 m
	16058	.50	2.64	.28	
2	16068	1.50	.82	.06	
3	16079	1.10	.72	.01	
	16081	.50	.51	.02	
	16083	1.00	3.12	.11	2.08/2.00 m
	16084	1.00	1.03	.12	
	16091	1.24	2.26	.10	
	16094	1.00	.65	.04	
	16099	.72	5.86	.40	
4	16111	.50	1.71	.35	
	16131	.50	.34	.72	
	16132	1.00	.07	.38	
	16134	1.53	1.34	.14	
	16139	.53	1.41	.06	
5	16155	1.20	1.47	.09	
	16164	1.50	.55	.02	
	16169	1.50	.65	.05	
	16170	1.50	.75	.12	
	16173	.50	5.97	.68	
	16177	1.00	.93	.03	
	16186	1.73	11.93	1.50	
6	16222	.80	2.23	.19	
	16227	.77	.82	.04	1.89/1.27 m
	16228	.50	3.53	.34	
7	16241	1.50	.58	.01	
	20077	.60	7.89	.38	
	20080	1.00	.51	.04	
	20085	1.50	4.01	.23	
8	20138	.81	1.13	.02	
	20139	1.00	7.30	.26	6.85/6.15 m
	20140	1.00	11.69	.48	
	20141	1.00	10.05	.31	
	20142	1.00	5.38	.09	
	20143	1.34	5.07	.20	
9	20170	1.48	1.35	.01	
	20200	.50	1.71	.11	
	20201	1.00	6.21	.97	3.07/4.19 m
	20202	1.00	1.61	.50	
	20203	1.00	.38	.10	
	20204	.69	5.49	.28	
	20208*	.80	8.16	.57	3.36/2.61 m
	20209	1.00	.72	.10	
	20210	.81	1.89	.18	

* returned 108 gmt Ag

Mid Zone

Geology - The Mid Zone is roughly located from the northwest corner of TOC 10 to the northern boundary of TOC 9. During 1987, the ridge from the northwest corner of TOC 10 to the south side of the icefield in central TOC 9 was extensively prospected (Figure 4, 5). The area is predominantly underlain by northtrending andesitic flows and agglomerate with minor interbedded feldspar porphyry flows and tuff, rhyolite flows, tuffs and volcanoclastics. As well there are two irregular feldspar porphyry bodies similar to the South Zone. The rhyolite and feldspar porphyry bodies are locally intensely quartz-sericite-pyrite altered.

Mineralization - Mineralization consists predominantly of east-west to northwest trending quartz-pyrite +/- chalcopyrite veins. The veins range from 1cm to 6m wide and 1m to 100m long. No significant precious metal values have been obtained from these veins. As well, there are local small zones and widespread large boulders of pyritic rhyolite breccia. This unit commonly contains 10-20% coarse grained pyrite with trace amounts of malachite. No significant precious metals were obtained from these rocks.

Silt samples collected from creeks draining the area were slightly anomalous in Cu, As, Co, Fe and Au.

Table 3 lists the sample results.

TABLE 3: SOUTH AND MID ZONE SAMPLE RESULTS

SAMPLE	TYPE	(All values in ppm except where noted)										Cu %	Au oz/T
		Mo	Cu	Pb	Zn	Ag	As	Cd	Sb	Au ppb			
15001	rock	1	13	9	10	0.2	7	1	3	1	-	-	
15002	rock	1	15	9	24	0.1	6	1	6	2			
15003	float	4	1341	43	10	0.2	133	1	2	1			
15004	rock	1	32	13	84	0.2	9	1	2	1			
85215	rock	5	45907	27	161	1.6	78	4	2	48			
85216	rock	6	48614	39	156	1.6	173	4	5	59			
85217	rock	2	30680	43	118	1.8	246	3	10	350			
85222	silt	5	148	21	128	0.1	54	1	2	1			
85223	rock	1	*14.14	51	292	5.2	236	10	6			.010	
85224	pan		240	220	110	0.8				130			
85225	pan		50	8	34	0.2				10			
85526	rock	6	3978	410	85	23.2	1248	1	68	13			
85527	rock	6	4511	151	616	22.5	245	7	33	3			
85528	rock	2	51	16	63	0.4	19	1	2	18			
85530	silt	6	200	69	97	1.2	140	1	4	7			
85531	silt	5	208	62	100	1.4	171	1	4	3			
85532	silt	11	281	55	188	1.1	141	1	2	6			
85533	rock	4	* 4.70	12	1	17.1	145	3	2	1		.001	
85534	rock	25	10795	2281	7615	40.9	841	51	41	34			
85535	rock	20	710	332	174	11.7	635	1	32	31			
85536	rock	4	* 4.34	162	308	14.6	85	5	4	1		.001	

(All values in ppm except where noted)

SAMPLE	TYPE	Mo	Cu	Pb	Zn	Ag	As	Cd	Sb	Au ppb	Cu %	Au oz/T
85537	rock	5	* .76	68	176	5.8	167	2	2	1		.001
85538	rock	8	* 2.06	110	199	13.1	264	3	2	1		.001
85539	rock	6	* 3.84	69	189	12.2	158	3	2	1		.001
85540	rock	6	* 1.62	123	273	17.2	172	2	6	4		.001
85541	rock	5	* 1.35	486	886	20.7	78	7	2	4		.001
85542	rock	11	425	79	237	1.9	203	1	14	1		
85546	pan		? 260	300	100	0.4				300		
85547	silt	2	69	13	84	0.1	15	1	2	3		
85548	pan		120	14	50	0.4				10		
85549	silt	3	43	14	42	0.1	13	1	2	1		
85550	pan		12	130	180	0.2				10		
86751	silt	5	23	38	213	0.2	37	1	3	1		
86752	silt	5	20	23	168	0.2	40	2	3	1		
86753	pan		30	110	190	0.2				10		
86754	silt	5	24	22	160	0.3	37	1	3	1		
86755	pan		78	40	92	0.2				50		
86756	silt	3	37	26	153	0.2	61	1	5	4		
86757	silt	5	37	41	142	0.4	72	1	2	1		
86758	pan		38	20	160	0.4				30		
86759	silt	2	30	26	138	0.3	41	1	3	3		
86760	rock	250	377	40	101	7.3	659	1	5	1		
86761	rock	25	231	7	20	0.2	32	1	2	20		
86762	pan		30	10	98	0.4				10		
86763	silt	2	33	28	121	0.2	27	1	4	4		
86764	rock	13	2679	77	62	1.2	72	1	16	63		
86765	pan		8	4	62	0.2				10		
86766	silt	2	17	19	90	0.1	15	1	4	1		
86767	pan		28	18	150	0.2				10		
86768	silt	2	35	29	185	0.1	22	1	2	1		
87535	rock					*.02					1.34	.001
87536	rock					*.46					1.34	.001
87537	rock					*.02					.02	.001

* DENOTES ASSAY

Grid Sampling - A small grid, the Ridge Grid, was established for the purpose of talus and/or soil sampling (Figure 9). Grid lines were established using a compass and hip chain. Samples were collected at 25 meter intervals along the grid lines with the use of a grub hoe. Sample material consisted of talus fines. The samples were placed in "wet strength" kraft envelopes and shipped to Noranda Labs in Vancouver. The talus samples were then crushed and then all samples were screened and sieved to -80 mesh. For the analytical procedure, refer to Appendix III. A total of 102 talus samples were collected on the grid. Samples from the Ridge Grid returned local spot anomalies of little significance.

North Zone

Geology - Reconnaissance mapping and prospecting has been completed over only a limited area. Rock units identified are mainly andesitic agglomerates and flows and feldspar porphyry. The feldspar porphyry at the eastern end of TOC 8 appears to be an intrusive. The feldspar porphyry mapped in central TOC 8 and 9, however, is difficult to ascertain as to whether it is intrusive or is a flow rock. Detailed mapping of this area is required before any conclusions can be made. The feldspar porphyries and the andesitic volcanics to the west have been locally altered; predominantly to either quartz-sericite-pyrite or iron-carbonate-quartz-sericite. A broad north-south trending zone of patchy to pervasive alteration occurs in the north-central portion of TOC 9 and parts of TOC 8. This zone is on strike with the gossan north of the Mid Zone, which in turn appears to be continuous with the Mid Zone. As well, local areas in the andesitic agglomerates are weakly sericite altered and foliated and contain up to 10% disseminated pyrite.

Mineralization - Mineralization observed to date occurs in two areas:

1. the east-southeast portion of TOC 8, (A and B zones),
2. south-central TOC 8 and northwest TOC 9.

The eastern mineralization consists mainly of north-northwest trending, .1 to 2 meter wide hematitic quartz-chalcopyrite veins and vein breccias. These veins constitute what Newmont called the "A" and "B" zones.

In 1987 the veins on the north side of Fall Creek were partially resampled (Figure 11) and the southern extension of these veins were traced out and locally sampled (Figure 5). As well, a sample of old drill core, representing 1 to 1.5 meters of mineralized quartz vein, was collected. This sample returned .223 oz/T Au confirming that Newmont's drilling hit higher grade mineralization at depth than what is present at surface.

The "A" zone veins are hosted by dark green, chloritic andesitic agglomerate. On the north side of Fall Creek, the footwall of the veins has been intensely iron-carbonate-quartz +/- pyrite altered. This footwall alteration is 10-15 meters wide and the veins do not appear to enter it. The veins range from .1 to 2 meters wide and were traced for over 150 meters to the south of Fall Creek where the veins pinched to <10 cm wide and/or splayed out in several small veins.

In 1987, the area on the south side of Fall Creek, along and between 1st and Ice creeks, was further prospected in an attempt to find the source of the high grade float discovered in 1986. In 1987, the float was followed south to just below an icefield in central TOC 9. It is in the author's opinion that the source of the high grade float is beneath this icefield. In the process of prospecting, several new copper occurrences were located, but they did not contain any significant precious metal values. Table 4 lists the results of sampling.

TABLE 4: NORTH ZONE SAMPLE RESULTS

SAMPLE	TYPE	(All values in ppm except where noted)										Au	
		Mo	Cu	Pb	Zn	Ag	As	Cd	Sb	Au ppb	Cu %	Au oz/T	
85195	rock										1735	.22	.244
85196	rock										260	1.23	.007
85197	rock										150	1.91	.005
85198	rock										9980	.35	.278
85199	rock										6850	2.10	.200
85200	rock										4110	2.85	.098
85201	rock										1995	1.45	.048
85202	rock										270	.23	.008
85203	rock										450	.13	.009
85204	rock										210	.01	.005
85205	silt	2	170	47	152	0.4	34	1	2	65	--	--	
85206	rock									850	.55	.027	
85207	rock									3220	.21	.086	
85208	rock									8430	1.67	.210	
85209	rock									640	.23	.017	
85210	pan		280	40	78	0.8				140			
85211	pan		170	14	56	0.2				1680			
85212	pan		32	28	100	0.2				70			
85213	rock	3	1211	44	48	0.9	220	1	10	590			
85214	rock	1	66612	41	181	3.1	267	6	5	2370			
85218	rock	1		43	140	2.1	318	2	2	--	3.63	.020	
85219	rock	6	1229	*1.17	*1.71	*.37	115	113	15	--	--	--	
85220	pan		7000	16	92	0.6				110			
85221	silt	2	54	18	116	0.4	44	1	2	1	--	--	
85529	float	22	2776	*7.70	*12.55	*3.85	108	920	31			.001	
85543	silt	2	53	47	161	0.3	11	1	2	22			
85544	pan		280	8	120	0.6				40			
85545	silt	3	66	18	96	0.1	18	1	2	5			

* DENOTES ASSAY VALUES (% or opt)

Grid Sampling - As a follow up on 1986 silt samples 15151-57, two lines of soil samples, line 9800N and 10,000N, were completed over the source area.

The grid lines were established using a compass and hip chain and soil samples were collected from the B horizon with the use of

a grub hoe. Samples were placed in Kraft "wet-strength" envelopes and shipped to Noranda Labs in Vancouver where they were dried and sieved to -80 mesh. Refer to Appendix III for analytical procedure.

The sampling outlined a strong coincident copper-gold anomaly 200m x 250m and open to the north and south. Values range up to 1030 ppm Cu and 360 ppb Au. This area warrants further sampling and trenching.

Virginia Creek

Recon Sampling - A total of 2 days were spent stream sampling and prospecting in the Virginia Creek valley. A total of 12 heavy mineral (pan) samples, 16 silt samples and 3 rock samples were collected. (Figure 17) Table 5 lists the sample results.

TABLE 5: VIRGINIA CREEK SAMPLE RESULTS

(all values in ppm except where noted)									
SAMPLE	TYPE	Mo	Cu	Pb	Zn	Ag	As	Sb	Au (ppb)
80956	pan		22	56	140	.2			10
80957	silt	1	28	25	149	1.1	58	2	2
80958	silt	2	16	15	105	.6	219	8	2
80959	silt	1	22	14	102	.6	121	5	1
80960	pan		20	8	80	.2			10
80961	pan		22	420	112	.2			10
80962	silt	2	23	28	124	.6	58	2	1
80963	pan		23	20	92	.2			10
80964	silt	1	22	19	93	.5	28	2	1
80965	pan	LOST							
80966	silt	2	20	26	151	.8	69	4	1
80967	pan		22	80	360	3.2			10
80968	silt	1	17	46	212	2.3	36	2	1
80969	pan		12	80	140	.2			10
80970	silt	1	17	21	107	.4	33	2	4
80971	pan		56	52	290	.6			310
80972	silt	2	20	33	163	.4	30	2	1
80973	rock	43	18	29	141	1.9	4072	74	18
80974	rock	28	43	129	16	9.1	5530	73	175
80975	rock	14	55	98	163	7.0	2847	53	150
80988	pan		22	10	94	.2			10
80989	silt	1	24	22	110	.9	97	5	2
80990	silt	1	18	14	90	.4	47	2	10
80991	pan		34	16	96	.2			30
80992	silt	2	19	19	109	.5	41	2	5
80993	silt	1	16	10	81	.4	26	2	2
80994	silt	1	14	19	101	.3	26	2	2
80995	silt	1	15	15	99	.5	29	3	3
80996	pan		14	12	110	.2			10
80997	pan		22	20	160	.2			150
80998	silt	1	20	18	115	.5	18	2	1

The sampling has indicated two moderately anomalous areas, one on the north side and one on the south side of Virginia Creek. The anomaly on the north side of the creek consists of 3 sample sites, samples 80956-7, 80965-8, with anomalous values in Pb, Ag, As +/- Zn. The anomaly on the south side of the creek consists of 5 sample sites, samples 80958-62, 80971-5, 80991-2, with anomalous values in Au, Ag, As, Sb, Pb, Zn. Of particular note are stream samples 80971-2 and rock samples 80973-5. The 3 rock samples consisted of andesitic volcanic breccia containing 3-5% pyrite and .5-1% arsenopyrite. This area definitely warrants further sampling and prospecting.

TOC 12

Recon Sampling - During 1987, a large rusty, altered area was prospected and a total of 8 rock/talus samples were collected. (Figure 18) Table 6 lists the sample results.

TABLE 6: TOC 12 SAMPLE RESULTS

(all values in ppm except where noted)

SAMPLE	TYPE	Mo	Cu	Pb	Zn	Ag	As	Sb	Au (ppb)
85187	rock	3	29	98	3	1.0	127	9	2
85188	talus	3	18	33	86	.2	16	2	1
85189	rock	7	35	140	5	2.8	118	13	21
85190	talus	2	11	22	51	.2	10	2	1
85191	rock	184	36	30	19	1.5	213	5	17
85192	rock	2	38	14	13	.4	7	4	2
85193	talus	1	39	25	97	.2	6	2	1
85194	talus	1	37	22	102	.1	11	4	1

The gossan proved to be a north-northwest trending zone of quartz-sericite-pyrite altered rhyolite tuffs which are bounded by maroon-green andesitic volcanics. The tuffs contains local vuggy siliceous zones with 10-15% pyrite. No significant precious metals were obtained from this area.

Knob Zone (TOC 15)

Recon Sampling - The Knob Zone is a prominent gossanous ridge which rises from the bottom of the Todd Creek valley. (Figure 19) The northern end of the ridge is composed of a tan-brown siliceous hornblende-feldspar porphyry (possibly trachyte?). Feldspar phenocrysts range up to 1cm in size. Mineralization consists of discontinuous zones to 5 meters wide of intense quartz-sericite-pyrite alteration which contain 1-25cm wide massive pyrite seams. The number and intensity of the alteration zones appears to decrease to the south. To the south, on the east side of the Knob Zone ridge, several 1-10cm wide chalcopyrite veins were also located. Table 7 lists the sample results.

TABLE 7: KNOB ZONE ROCK SAMPLE RESULTS

(all values in ppm except where noted)

SAMPLE	TYPE	Mo	Cu	Pb	Zn	Ag	As	Sb	Au (ppb)
80976	py vein	5	13	107	93	1.7	329	2	41
80977	py vein	5	32	16	9	.3	232	2	25
80978	py vein	5	14	95	267	1.1	578	2	119
80979	py vein	2	3	4	5	.5	135	2	13
80980	py vein	7	52	233	52	1.5	975	2	71
80981	py vein	3	18	19	6	.3	236	2	7
80982	jasp-hem	95	3	15	28	.1	29	39	1
80983	cpy vein	12	734	62	104	1.3	529	2	111
80984	cpy vein	2	3697	13	207	1.4	203	210	5
80985	py vein	2	7	15	10	.2	286	2	10
80986	py vein	30	236	25	16	.8	584	2	126
86769	py vein	3	89	52	107	.5	811	2	108
86770	py vein	3	49	114	37	.4	455	2	530
86771	py vein	1	52	27	20	.7	770	3	270
86772	py vein	4	14	16	12	2.2	177	2	121
86773	py vein	6	13	13	9	1.4	100	3	37
86774	py vein	5	9	20	16	1.5	267	2	47
86775	py vein	5	9	35	25	.3	328	2	40

The sample results indicate that the pyrite veins are weakly auriferous but do not contain economic concentrations of gold.

BY Glacier (TOC 10)

Recon Sampling - The BY glacier lies immediately southwest of the South Zone camp and runs east-west. A one day recon traverse along the north side of the glacier (Figure 4) was completed. A total of 6 rock/talus samples were collected. Table 8 lists the sample results.

TABLE 8:

(all values in ppm except where noted)

SAMPLE	TYPE	Mo	Cu	Pb	Zn	Ag	As	Sb	Au (ppb)
85181	rock	16	13	10	37	.1	29	14	5
85182	rock	3	29	15	18	.5	95	61	8
85183	rock	9	552	15	19	.3	44	16	1
85184	talus	4	23	35	183	.4	21	3	2
85185	talus	5	11	35	107	.1	13	5	1
85186	talus	1	16	28	150	.2	9	3	1

Due to the steep terrane, only the slope immediately above the glacier could be prospected. This slope was usually covered by considerable talus material. This talus material, from sample site 85181 to 85183, consists mainly of felsic volcanics. These volcanics appear to range from dacite flows and fragmentals to rhyolite. Local rhyolite float was observed to have a heavy limonite +/- hematite coating. Several pieces were also found to

be vuggy with pyrite in the vugs. These felsic rocks appear to be a southern continuation of the felsic package identified in the Mid Zone.

Todd Creek Valley

Recon Sampling - Pan and silt sampling along the main Todd Creek Valley has identified several anomalous areas on both sides of the valley. (Figures 4, 5) The anomalies on the east side of the valley are predominantly Pb +/- As-Zn-Au. The anomalies on the west side are predominantly Cu-Au +/- Pb-As. This difference probably reflects two different geologic environments.

CONCLUSIONS:

Work completed in 1987 has outlined several target areas which warrant further work. These are:

1. South Zone - drilling has confirmed the presence of significant gold values over appreciable widths (up to 6.85 gmt Au/6.15m) within the South Zone. The erratic nature of the gold distribution in the drill holes may be due to the presence of higher grade shoots within the zone. Trenching across the wide stringer zone at the southern end returned generally sub-economic gold values.
2. Mid Zone - mapping and sampling have failed to outline any significant mineral zones. The zone of felsic volcanics previously identified now appears to be continuous to the south at least to the BY glacier. To date however, no significant mineralization has been found associated with these volcanics.
3. North Zone - follow up of the high grade float material indicates that the source lies under a small icefield in central TOC 9. Soil sampling on the south side of Fall Creek has outlined a strong coincident copper-gold anomaly 200m x 250m. Values range up to 1030 ppm Cu and 360 ppb Au. Resampling of the "A" zone trenches again returned low gold values but a sample of old core representing 1 to 1.5m of mineralized quartz vein returned .223 oz/T Au and .58% Cu. This confirms the presence, at least locally of significant gold values at depth.
4. Virginia Creek - reconnaissance stream and rock sampling has outlined two multi-element anomalous areas, one on each side of the creek. Rock samples from the area of the southern anomaly have returned values to 9.1 ppm Ag, 5530 ppm As, 73 ppm Sb and 175 ppb Au.
5. TOC 12 - reconnaissance prospecting and sampling failed to locate any significant mineralization. This work covered a large gossan in central TOC 12.
6. Knob Zone (TOC 15) - a large, prominent gossan with extensive areas of intense quartz-sericite-pyrite alteration was thoroughly prospected and sampled. Rock sampling indicates that the altered areas are only weakly anomalous in gold, best value 530 ppb.
7. BY Glacier (TOC 10) - reconnaissance work indicates that the felsic volcanics identified in the Mid Zone continue at least as far south as the BY glacier. No significant mineralization was located in this area to date.

RECOMMENDATIONS:

1. South Zone - continued drill testing. This should include holes to the north of NTC-8, 9 and another hole beneath each of NTC-3, 5, 7 and 9.

2. Mid Zone - further prospecting to the east along the creeks draining the Mid Zone.

3. North Zone - drill test the "A" zone, enlarge the grid covering the copper-gold soil anomaly for the purpose of mapping sampling and trenching.

4. Virginia Creek - follow up the 1987 anomalies with further sampling and prospecting.

5. TOC 12 - no further work is recommended in this area at this time.

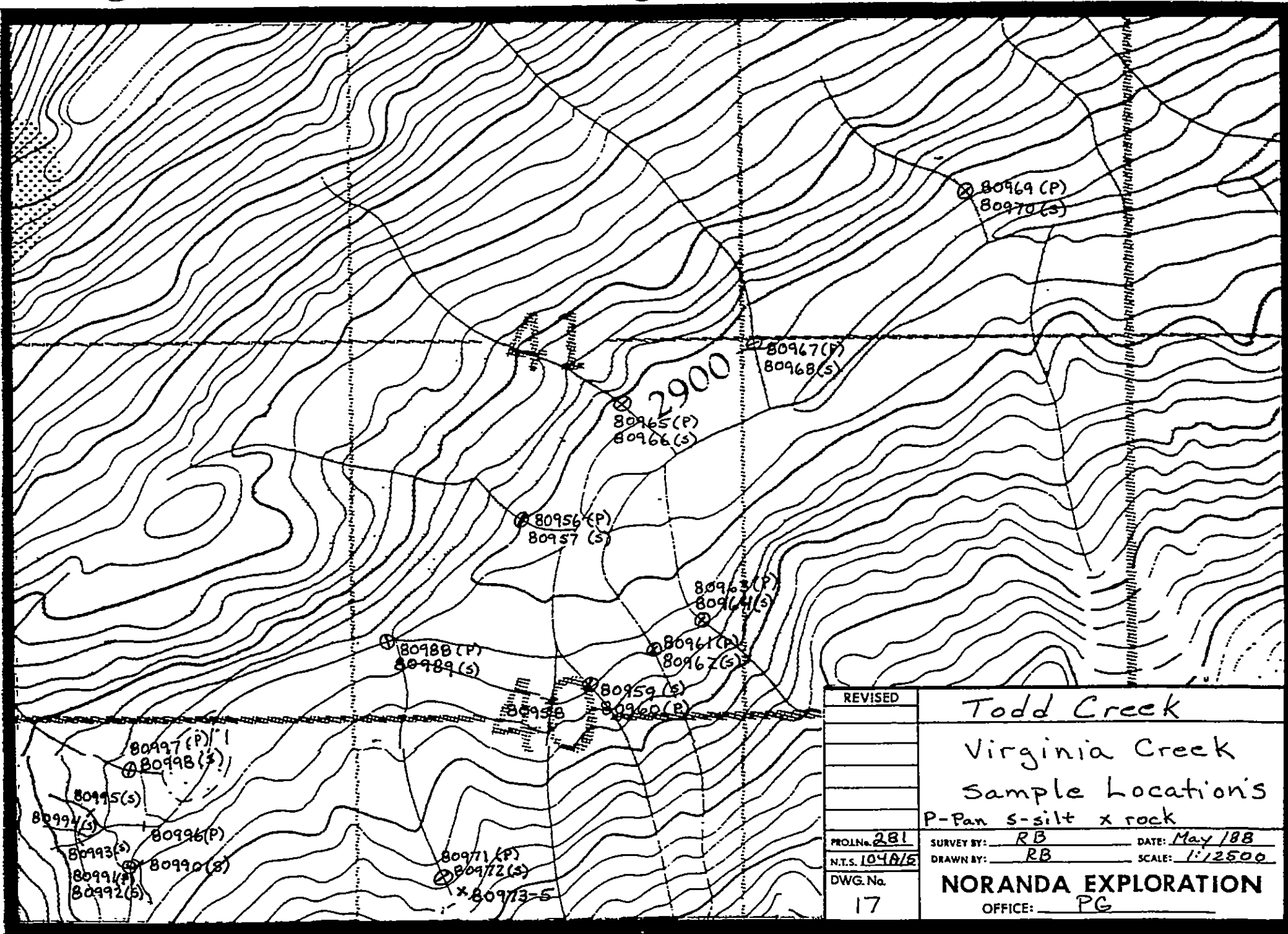
6. Knob Zone (TOC 15) - no further work is recommended in this area at this time.

7. BY Glacier (TOC 10) - further prospecting and reconnaissance soil and rock sampling along the north side of the glacier.

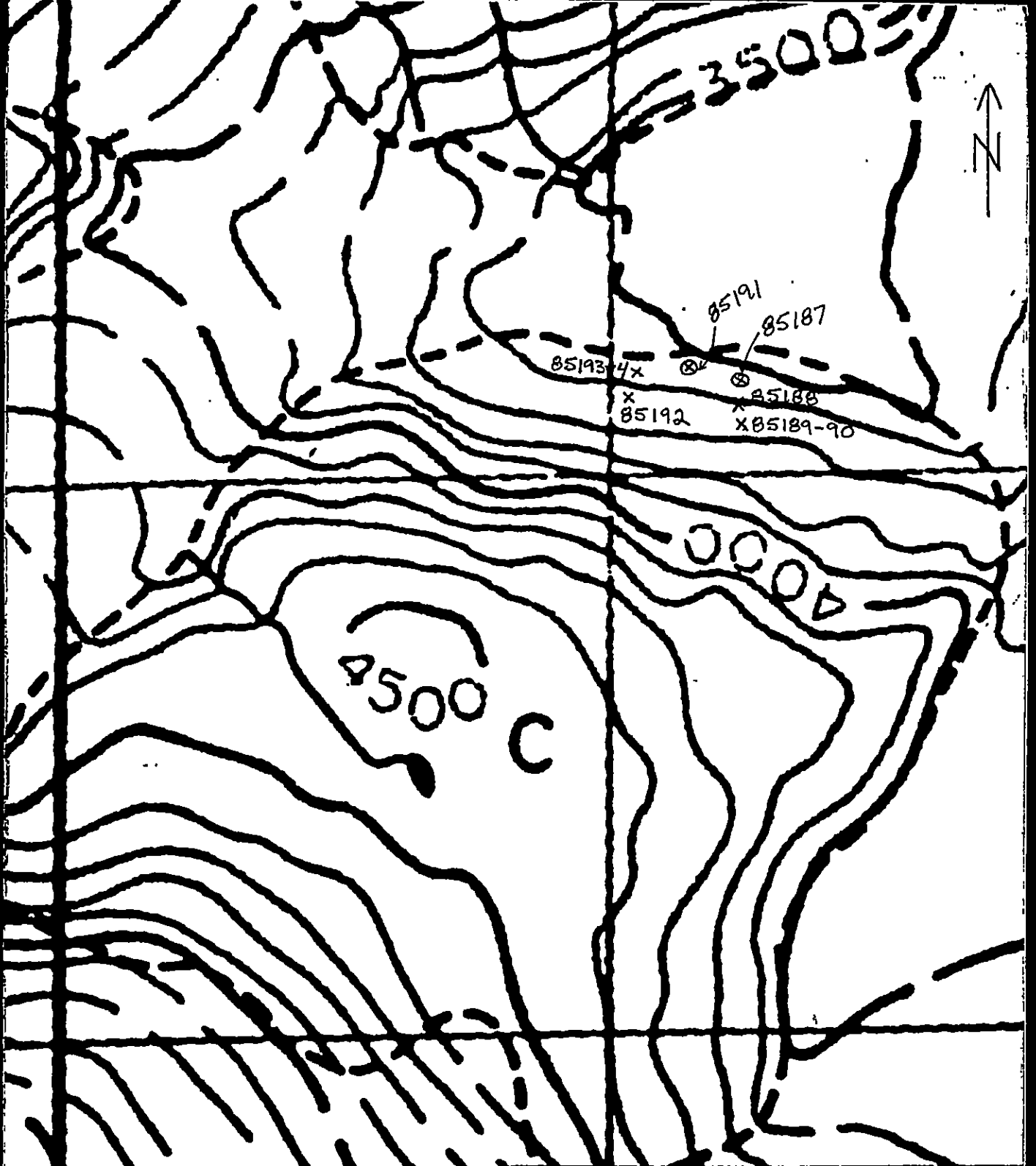
8. Todd Creek Valley - follow up anomalous silt-pan samples with further sampling and prospecting.

REFERENCES:

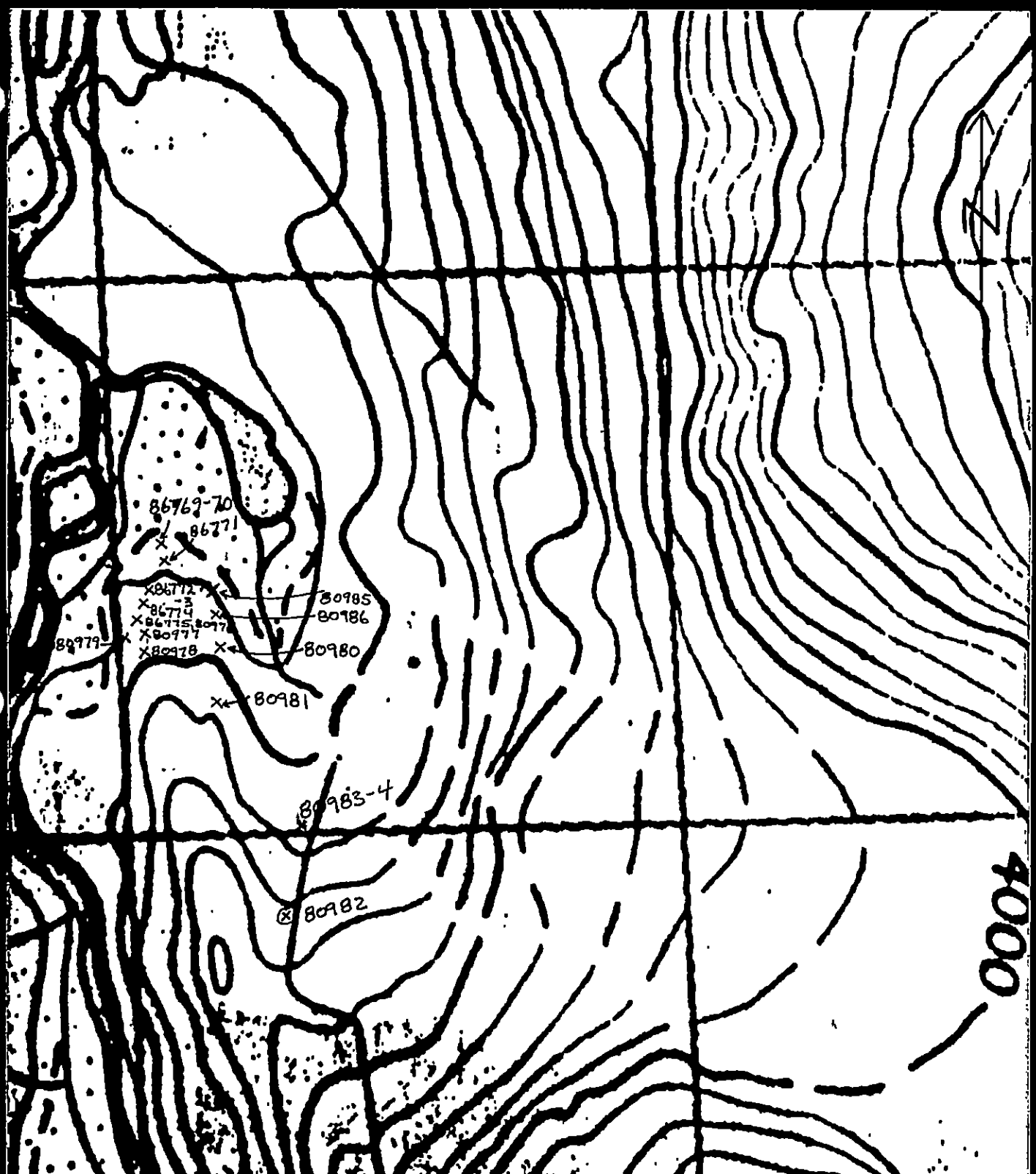
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REVISED	Todd Creek	
	Virginia Creek	
	Sample Locations	
	P-Pan s-silt x rock	
PROJ. No. 281	SURVEY BY: RB	DATE: May 1988
N.T.S. 104816	DRAWN BY: RB	SCALE: 1:12500
DWG. No.	NORANDA EXPLORATION	
17	OFFICE: PG	



REVISED	TODD CREEK	
	TOC 12	
	SAMPLE LOCATIONS	
PROJ.No. 281	SURVEY BY: R. Baerg	DATE: May 1988
N.T.S. 104A5	DRAWN BY: R. Baerg	SCALE: 1:10,000
DWG.No. 18	NORANDA EXPLORATION	
	OFFICE: Prince George	



REVISED	TODD CREEK	
	KNOB ZONE	
	SAMPLE LOCATIONS	
PROJ. No. 281	SURVEY BY: R. Baerg	DATE: May, 1988
N.T.S. 104A5	DRAWN BY: R. Baerg	SCALE: 1:10,000
DWG. No. 19	NORANDA EXPLORATION	
	OFFICE: Prince George	

APPENDIX I
STATEMENT OF COSTS

PROJECT: TODD CREEK	May, 1988
TOC 3-5 Claims (60 units)	
TODD 1 GROUP	
a. <u>Mandays</u> -	
7 mandays @ \$127.85/day	\$ 894.95
b. <u>Supplies, Lodging, Expediting</u> -	
7 mandays @ \$109.31/day	\$ 765.17
c. <u>Equipment, etc.</u> -	
7 mandays @ \$22.02/day	\$ 154.14
d. <u>Transportation</u> -	
206B helicopter-4 hrs @ \$571.50/hr	\$ 2,286.00
truck-3days @ \$35.00/day	\$ 105.00
e) <u>Geochem</u> -	
silt samples - 16 @ \$11.00 ea (ICP & Au)	\$ 176.00
pan samples - 12 @ \$ 8.15 ea (Au-Ag-Cu-Pb-Zn)	\$ 87.80
rock samples - 3 @ \$13.00 ea (ICP & Au)	\$ 39.00
f) <u>Report Writing</u> -	
Drafting	\$ 100.00
Report	\$ <u>50.00</u>
TOTAL	\$ 4,668.06

APPENDIX I
STATEMENT OF COSTS

PROJECT: TODD CREEK	May, 1988
TOC 6-8 Claims (56 units)	
TODD & GROUP	
a. <u>Mandays</u> -	
10 mandays @ \$127.85/day	\$ 1,278.50
b. <u>Supplies, Lodging, Expediting</u> -	
10 mandays @ \$109.31/day	\$ 1,093.10
c. <u>Equipment, etc.</u> -	
10 mandays @ \$22.02/day	\$ 220.20
d. <u>Transportation</u> -	
206B helicopter- 2.9 hrs @ \$571.50/hr	\$ 1,657.35
truck- 5 days @ \$35.00/day	\$ 165.00
e) <u>Geochem</u> -	
soil samples - 49 @ \$11.00 ea (ICP & Au)	\$ 539.00
rock samples - 11 @ \$16.50 ea (Cu-Au assay)	\$ 176.50
rock samples - 3 @ \$ 7.00 ea (Au)	\$ 21.00
pan samples - 3 @ \$ 8.15 ea (Au-Ag-Cu-Pb-Zn)	\$ 24.45
f) <u>Report Writing</u> -	
Drafting	\$ 100.00
Report	\$ 50.00
TOTAL	\$ 5,325.10

APPENDIX I
STATEMENT OF COSTS

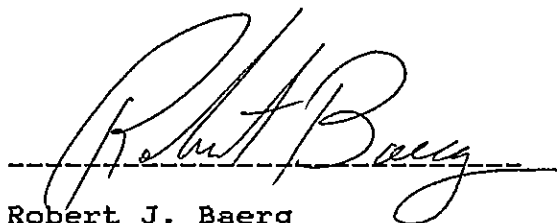
PROJECT: TODD CREEK	May, 1988
TOC 9-12 Claims (78 units)	
TODD 3 GROUP	
a. <u>Mandays</u> -	
130 mandays @ \$127.85/day	\$16,620.50
b. <u>Supplies, Lodging, Expediting</u> -	
130 mandays @ \$109.31/day	\$14,210.30
c. <u>Equipment, etc.</u> -	
130 mandays @ \$22.02/day	\$ 2,602.60
d. <u>Transportation</u> -	
206B helicopter - 26.2 hrs @ \$571.50/hr	\$14,973.30
204 helicopter - 9.1 hrs @ \$1279.50/hr	\$11,643.45
truck - 65 days @ \$35.00/day	\$ 2,275.00
fuel	\$ 3,371.12
e) <u>Geochem</u> -	
silt - 10 samples @ \$11.00 ea (ICP & Au)	\$ 110.00
rock - 132 samples @ \$13.00 ea (ICP & Au)	\$ 1,716.00
rock - 2 samples @ \$30.00 ea (Pb-Zn-Ag-Au assay)	\$ 60.00
rock - 9 samples @ \$22.50 ea (Cu-Au assay & ICP)	\$ 202.50
rock - 344 samples @ \$21.00 ea (Cu-Ag-Au assay)	\$ 7,224.00
rock - 179 samples @ \$13.00 ea (Cu-Ag-Au geochem)	\$ 2,327.00
pan - 5 samples @ \$ 8.15 ea (Au-Ag-Cu-Pb-Zn)	\$ 40.75
f) <u>Report Writing</u> -	
Drafting	\$ 300.00
Report	\$ 450.00
	<u>\$ 750.00</u>
	SUB - TOTAL
	\$78,126.52
g) <u>Drilling</u> - (1,904 feet)	<u>\$62,714.57</u>
	TOTAL
	\$140,841.09

APPENDIX II

STATEMENT OF QUALIFICATIONS

I, Robert J. Baerg of the City of Prince George, Province of British Columbia, do certify that:

1. I have been employed as a geologist by Noranda Exploration Company, Limited since May, 1984.
2. I am a graduate of the University of British Columbia with a Bachelor of Science (Honors) in Geology (1984).
3. I supervised and assisted with the work described in this report.

A handwritten signature in cursive script, reading "Robert J. Baerg", is written over a horizontal dashed line.

Robert J. Baerg
Geologist
Noranda Exploration Company, Limited
(No Personal Liability)

APPENDIX III

ANALYTICAL PROCEDURES

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.

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 weighted out at 0.2 g or less depending on the matrix of the rock, and twice as much acid is used for decomposition that 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 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 (10 ppb)
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 IV

Todd Co (RB)

8708-73

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 LA CR MG BA TI B W AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM. - SAMPLE TYPE: P1-ROCK P2-TALUS AU: ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: AUG 13 1987

DATE REPORT MAILED: Aug 21/87

ASSAYER: D. J. ... DEAN TOYE, CERTIFIED B.C. ASSAYER

NORANDA EXPLORATION (VAN) PROJECT-8708-077 281 File # 87-3012 Page 1

SAMPLE#	MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS	U	AU	TH	SR	CD	SB	BI	V	CA	P	LA	CR	MG	BA	TI	B	AL	NA	K	W	AUS
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM	PPM
85176	2	1703	28	153	1.2	3	7	1900	7.03	147	5	ND	2	205	1	40	2	2*	8.31	.011	8	1	2.51	20	.01	2	.25	.01	.12	2	26
85177	3	1496	9	69	.5	1	2	965	2.97	79	5	ND	6	104	1	22	2	10	2.6*	.030	10	4	.51	498	.01	3	.25	.03	.23	2	290
85178	14	1456	108	261	4.6	2	5	1260	4.67	66	5	ND	5	77	4	162	2	10	1.47	.021	6	4	.40	83	.01	3	.20	.02	.16	1	163
85179	6	1266	9	46	.3	1	4	1168	5.78	10	5	ND	3	66	1	8	2	11	.96	.011	14	1	.2*	288	.01	2	.16	.02	.17	71	1560
85180	5	35	10	43	.4	2	6	1339	10.52	15	5	ND	6	70	1	5	2	28	1.35	.021	35	1	.55	237	.01	2	.1*	.02	.20	273	1940
BY { 85181	16	13	10	37	.1	1	11	2240	8.89	2*	5	ND	1	206	1	14	2	16	19.30	.012	2	1	3.32	26	.01	3	.26	.01	.01	8	5
85182	3	2*	15	18	.5	1	4	241	24.33	*5	5	ND	2	10	1	61	2	10	.04	.004	2	1	.05	23	.01	3	.02	.01	.02	58	8
85183	9	552	15	19	.3	1	123	1441	15.37	44	5	ND	1	26	1	16	2	10	4.01	.008	3	1	1.19	9	.01	2	.11	.01	.01	17	1
85187	3	2*	98	3	1.0	5	5	3*	2.84	127	5	ND	1	1*	1	9	2	3	.10	.003	2	1	.01	48	.01	2	.03	.01	.03	1	2
85189	7	35	140	5	2.8	2	2	54	4.25	118	5	ND	1	23	3	13	2	5	.04	.009	2	3	.02	485	.01	3	.04	.01	.04	1	21
ToC12 { 85191	184	36	30	1*	1.5	16	57	166	15.08	231	5	ND	2	9	1	5	2	68	.53	.031	5	1	.43	6	.05	2	.64	.02	.17	1	17
85192	2	38	14	13	.4	5	1*	19	14.33	7	5	ND	1	15	1	4	2	6	.07	.004	2	1	.03	2	.01	4	.11	.01	.09	1	2
STD C/AU-R	18	57	42	131	7.0	68	26	903	4.01	3*	18	8	36	48	18	14	20	55	.48	.089	35	61	.88	173	.08	32	1.85	.07	.14	11	490

RECEIVED
AUG 21 1987

NORANDA EXPLORATION (VAN) PROJECT-8708-073 281 FILE # 87-3272

SAMPLE	NO	CU	PN	2K	AG	NI	CO	MM	FE	AS	U	AU	TH	SR	CD	SB	BI	V	CA	P	LA	CR	MG	BA	TI	B	AL	MA	K	#	AUS
PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	PPM	%	PPM	PPM
85184	4	23	35	183	.4	2	11	758	9.41	21	5	ND	3	12	2	3	2	45	.11	.132	10	1	1.86	84	.01	5	2.15	.02	.19	1	2
85185	5	11	33	107	.1	2	5	483	7.14	13	5	ND	2	14	1	5	2	41	.07	.110	9	1	1.64	271	.03	6	1.87	.02	.17	2	1
85186	1	16	28	150	.2	3	9	552	8.28	9	5	ND	3	13	1	3	2	38	.17	.136	12	1	1.58	85	.01	7	1.80	.02	.18	1	1
85188	3	18	33	86	.2	3	12	921	5.76	14	5	ND	3	11	1	2	2	34	.06	.115	13	3	.64	148	.01	12	1.18	.01	.14	1	1
85190	2	11	22	51	.2	1	12	967	4.33	10	5	ND	3	8	1	2	2	15	.02	.113	18	1	.27	131	.01	2	.61	.01	.13	2	1
85193	1	39	25	97	.2	4	10	500	10.35	6	5	ND	2	17	1	2	2	40	.20	.144	9	3	1.16	140	.01	22	1.53	.02	.12	2	1
85194	1	37	22	102	.1	5	13	800	8.31	11	5	ND	2	10	1	4	2	37	.09	.137	9	3	1.35	169	.01	4	1.68	.02	.10	1	1
STD C	19	58	41	132	7.1	70	26	916	4.01	39	20	7	36	48	19	17	22	56	.48	.090	36	60	.88	174	.08	37	1.82	.07	.14	13	-

85184
85185
85186
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85190
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85194
STD C

BY
TSC 12

C

C

C

Copy. Incomplete file

Todd A

R. G. O'G

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 LA CR NG BA TI B AL MA K W AU. AU DETECTION LIMIT BY ICP IS 3 PPM. - SAMPLE TYPE: P1-SILT P2 TO P4-TALUS P5-ROCK AUS ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: AUG 21 1987 DATE REPORT MAILED: ASSAYER.....DEAN TOYE, CERTIFIED B.C. ASSAYER

NORANDA EXPLORATION (VAN) PROJECT-8708-090 281 File # 87-3506 Page 1

SAMPLES	NO	CU	PB	ZN	AG	NI	CO	MN	FE	AS	U	AU	TH	SR	CD	SB	BI	V	CA	P	LA	CR	NG	BA	TI	B	AL	MA	K	W	AUS
	2	54	18	116	.4	7	24	1609	9.24	49	5	ND	4	31	1	2	2	42	.50	.136	19	4	.80	221	.01	3	1.22	.03	.09	1	1
	5	148	21	128	.1	8	29	3192	10.95	54	5	ND	4	24	1	2	2	56	.59	.135	15	1	.39	56	.01	3	.74	.02	.10	1	1
	2	51	16	43	.4	4	19	890	5.99	19	5	ND	4	40	1	2	2	42	.39	.102	10	4	.78	176	.12	4	1.35	.03	.09	1	18
	6	200	49	97	1.2	5	27	1029	9.17	140	5	ND	7	16	1	4	2	25	.53	.077	14	1	.43	15	.01	5	.67	.03	.10	1	7
	5	208	62	100	1.4	5	29	969	10.26	171	7	ND	7	17	1	4	2	24	.73	.068	13	1	.49	13	.01	2	.62	.02	.09	1	3
	11	281	55	188	1.1	5	23	1469	7.89	141	5	ND	7	17	1	2	2	41	.37	.113	19	3	.55	70	.01	4	.95	.02	.11	1	6
	11	425	79	237	1.9	10	35	1570	11.30	203	5	ND	5	23	1	14	2	62	.45	.103	18	7	1.19	25	.01	3	1.50	.03	.09	1	1
	18	57	40	131	6.8	67	27	1027	3.97	42	19	8	36	49	18	17	20	56	.48	.088	36	56	.88	175	.08	34	1.85	.08	.12	11	-

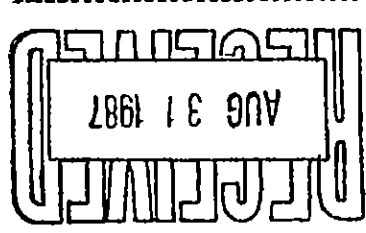
SILT

Mid
Zone

1. 1511.6.27.83

Complete file with assays to come.

cc: Pet
file: TODD 281



NORANDA EXPLORATION (VAN) PROJECT-8708-090 281 FILE # 87-3506

SAMPLE#	HD	CU	PB	ZN	AG	NI	CO	RM	FE	AS	U	AU	TH	SR	CO	SB	BI	V	CA	P	LA	CR	MG	BA	TI	B	AL	MA	K	Z	PPH	K	W	AUR
TALS	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH
11500K 9550E	4	18	25	78	-1	3	8	1855	5.18	24	5	ND	2	3	1	2	3	46	.05	.108	14	3	.08	157	.01	2	.89	.01	.20	1	1	1	1	
11500K 9575E	14	25	35	200	.4	3	12	2590	6.76	140	5	ND	3	10	1	2	2	44	.31	.084	24	6	.14	176	.01	2	.48	.02	.17	1	1	1	1	
11500K 9600E	27	22	22	115	-4	4	20	2132	6.01	52	5	ND	9	11	1	2	3	25	.38	.100	30	1	.11	428	.01	3	.46	.01	.17	1	3	3	3	
11500K 9625E	2	16	16	63	-4	4	12	1632	3.70	9	5	ND	11	16	1	4	2	17	.51	.139	32	5	.10	319	.01	24	.49	.03	.24	1	2	2	2	
11500K 9650E	2	19	13	65	-4	3	9	1240	3.99	10	5	ND	9	11	1	2	2	19	.35	.117	32	1	.09	289	.01	5	.48	.02	.18	2	2	2	2	
11500K 9675E	2	22	14	66	-2	5	10	1855	4.21	9	5	ND	3	6	1	2	2	27	.13	.095	25	3	.12	314	.01	2	.78	.01	.19	1	3	3	3	
11500K 9700E	1	64	18	67	7	16	21	1283	9.02	30	5	ND	4	51	1	2	3	51	.15	.121	16	6	.14	271	.01	2	.48	.07	.17	1	1	1	1	
11500K 9725E	2	276	20	80	-5	11	28	1917	9.70	24	6	ND	4	17	1	2	2	61	.10	.121	16	5	.22	240	.01	2	.73	.02	.12	1	1	1	1	
11500K 9750E	1	23	19	47	-5	4	16	949	10.81	35	5	ND	3	22	1	2	2	36	.05	.191	17	7	.62	141	.01	2	1.09	.03	.13	1	1	1	1	
11500K 9850E	1	45	17	98	-3	9	19	1711	5.95	11	5	ND	3	22	1	2	2	67	.34	.110	26	10	1.24	402	.01	7	2.15	.04	.18	1	3	3	3	
11500K 9875E	2	45	24	120	-2	12	25	1769	8.38	12	5	ND	3	16	1	2	2	85	.17	.127	20	19	1.79	198	.01	2	2.51	.02	.11	1	2	2	2	
11500K 9900E	1	56	19	135	-4	12	24	2948	7.26	6	5	ND	4	18	1	2	2	103	.38	.128	29	20	1.87	46	.01	9	2.89	.03	.16	1	1	1	1	
11500K 9925E	1	39	25	111	-4	8	18	2332	7.00	13	5	ND	3	20	1	2	2	97	.38	.117	35	9	.73	583	.01	4	1.91	.03	.22	1	1	1	1	
11500K 9950E	1	51	14	136	-3	7	23	2652	7.70	5	5	ND	4	27	1	2	2	96	.54	.154	26	5	.74	656	.02	5	1.54	.03	.15	1	1	1	1	
11500K 9975E	1	34	15	129	-3	7	23	2184	8.16	7	5	ND	4	21	1	2	2	102	.47	.159	26	3	1.43	288	.01	9	2.47	.04	.14	1	1	1	1	
11500K 10000E	1	19	17	124	-5	5	24	2283	6.56	9	6	ND	4	36	1	3	2	93	.60	.125	25	2	.63	306	.03	6	1.11	.03	.19	2	2	2	2	
11500K 10050E	1	43	19	117	-3	4	22	2272	7.20	10	5	ND	4	21	1	2	2	91	.41	.116	22	6	.41	491	.05	5	1.18	.03	.14	1	5	5	5	
11500K 10075E	1	30	15	116	-2	4	20	1963	6.67	10	5	ND	3	22	1	2	2	89	.60	.119	17	3	.48	376	.04	7	.96	.03	.13	1	2	2	2	
11500K 10100E	1	29	12	116	-1	5	22	2044	7.20	5	5	ND	5	24	1	2	2	97	.82	.129	19	2	.58	346	.05	5	.86	.03	.14	1	2	2	2	
11500K 10125E	1	59	16	127	-4	6	21	3335	6.92	8	5	ND	4	24	1	2	2	86	.62	.128	29	5	.73	538	.02	8	1.54	.03	.14	1	2	2	2	
11500K 10150E	1	36	21	124	-3	6	23	2163	7.83	4	5	ND	4	13	1	2	2	97	.41	.127	21	1	.79	391	.02	4	1.52	.03	.12	1	1	1	1	
11500K 10175E	1	76	25	140	-4	7	21	1944	8.05	11	5	ND	3	13	1	2	2	97	.53	.148	29	1	.88	474	.01	5	1.94	.03	.12	1	2	2	2	
11500K 10200E	1	74	18	131	-3	9	25	1737	9.83	6	5	ND	4	18	1	2	2	96	.36	.141	19	3	.61	290	.01	2	1.35	.03	.10	3	73	73	73	
11500K 10225E	1	70	11	145	-1	10	31	2993	11.26	2	5	ND	3	17	1	2	2	105	.48	.141	17	4	.41	182	.01	3	.83	.02	.13	1	12	12	12	
11500K 10250E	2	106	23	104	-4	6	31	3296	13.26	22	5	ND	4	13	1	2	2	121	.30	.178	31	3	.37	532	.01	9	1.08	.02	.14	2	10	10	10	
11500K 10275E	1	41	8	86	-2	5	24	2270	8.66	6	5	ND	4	15	1	2	2	96	.40	.116	20	2	.27	595	.01	2	.76	.02	.14	1	4	4	4	
11500K 10300E	2	111	22	83	-1	4	30	2745	12.29	49	5	ND	3	11	1	2	2	88	.10	.185	17	1	.11	293	.01	2	.71	.01	.14	1	14	14	14	
11500K 10325E	1	76	19	99	-2	7	17	929	9.47	21	5	ND	2	8	1	2	2	92	.13	.137	19	4	.34	248	.01	2	1.05	.02	.10	1	5	5	5	
11500K 10350E	1	76	19	81	-5	6	23	1685	8.28	26	5	ND	4	9	1	2	2	62	.08	.163	20	1	.15	244	.01	2	.67	.01	.17	1	10	10	10	
11500K 10375E	1	13	36	83	-1	2	6	2278	2.59	3	5	ND	3	18	1	2	3	19	.30	.123	19	1	.07	745	.01	7	.67	.02	.25	1	1	1	1	
11400K 9500E	2	21	34	104	-3	7	10	1802	4.89	27	5	ND	3	8	1	5	2	52	.07	.127	16	8	.29	473	.01	2	1.86	.01	.16	2	3	3	3	
11400K 9525E	2	26	28	88	-3	7	11	1882	4.24	21	5	ND	7	8	1	3	2	38	.18	.082	21	8	.40	336	.01	2	1.15	.02	.17	2	1	1	1	
11400K 9550E	2	19	18	65	-4	3	9	2276	4.64	10	5	ND	5	7	1	2	3	24	.25	.071	18	2	.13	413	.01	2	.65	.01	.21	2	2	2	2	
11400K 9575E	2	22	11	37	-1	2	6	1679	3.48	9	5	ND	7	9	1	3	2	23	.36	.087	16	1	.09	347	.01	2	.51	.02	.23	1	2	2	2	
11400K 9600E	2	14	14	56	-3	2	8	1588	4.19	13	5	ND	7	13	1	2	3	29	.37	.121	24	1	.12	346	.01	2	.63	.02	.23	1	1	1	1	
11400K 9625E	2	28	12	37	-3	2	6	1536	3.44	4	5	ND	10	6	1	2	3	20	.20	.074	22	2	.07	276	.01	2	.49	.01	.21	2	2	2	2	
STD C/AU-S	20	60	39	132	7.4	72	29	1057	4.04	40	22	8	39	52	19	17	19	60	.48	.095	39	60	.89	180	.09	36	1.88	.09	.16	12	12	12	12	

11500K 9550E

NORANDA EXPLORATION (VAN) PROJECT-8708-090 281 FILE # 87-3506

SAMPLES	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE PPM	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA PPM	P PPM	LA PPM	CR PPM	MG PPM	BA PPM	TI PPM	B PPM	AL PPM	MA PPM	K PPM	M PPM	AUS PPM
11400N 9450E	3	12	8	38	.1	1	5	980	2.49	9	5	ND	9	4	1	2	2	18	.12	.060	14	1	.07	146	.01	2	.50	.01	.18	2	1
11400N 9475E	12	22	18	101	.2	4	13	1433	4.59	47	5	ND	5	7	1	3	3	29	.23	.090	24	4	.11	320	.01	3	.55	.01	.14	1	1
11400N 9700E	6	21	9	43	.2	4	9	1309	3.48	25	5	ND	7	7	1	2	2	23	.20	.074	22	2	.11	292	.01	2	.53	.01	.15	1	2
11400N 9750E	10	213	22	38	1.0	7	13	407	23.03	97	5	ND	5	15	1	3	3	128	.01	.310	19	5	.55	355	.01	4	3.45	.03	.16	4	96
11400N 9800E	3	143	17	69	.6	17	25	1543	9.91	41	5	ND	3	28	1	2	2	57	.10	.130	18	5	.17	329	.01	7	.80	.03	.15	1	29
11400N 9850E	3	50	30	100	.4	9	24	2308	8.08	33	5	ND	5	14	1	2	2	76	.09	.145	30	11	1.10	347	.02	6	2.28	.03	.13	2	16
11400N 9875E	2	41	27	69	.1	5	12	1553	6.13	24	5	ND	2	16	1	2	2	65	.19	.140	18	6	.51	441	.01	4	2.10	.02	.11	1	3
11400N 9900E	3	95	14	134	.1	14	22	2546	8.17	12	5	ND	4	22	1	2	2	107	.41	.113	36	26	.75	794	.01	10	2.11	.03	.14	1	1
11400N 9925E	3	95	15	73	.3	11	18	1580	8.24	35	5	ND	3	18	1	2	3	67	.15	.123	19	9	.41	341	.01	7	1.14	.03	.17	1	16
11400N 9950E	1	26	14	115	.1	6	22	2523	7.23	11	5	ND	4	20	1	2	2	83	.33	.130	27	5	.53	452	.02	4	1.24	.02	.09	1	2
11400N 9975E	2	38	14	123	.1	5	21	2503	7.95	6	5	ND	3	16	1	2	2	85	.32	.134	24	4	.53	453	.01	15	1.41	.03	.10	1	1
11400N 10000E	2	26	21	120	.1	5	15	1245	6.62	11	5	ND	2	11	1	2	2	77	.21	.125	17	5	.49	301	.01	6	1.49	.02	.08	1	3
11400N 10025E	1	16	9	91	.2	2	5	1417	2.84	7	5	ND	1	18	1	2	2	46	.38	.240	5	4	.11	289	.01	3	.83	.02	.12	1	1
STD C/AU-5	19	61	41	129	7.1	69	28	1047	3.85	40	20	8	38	50	19	17	19	58	.46	.093	38	59	.92	181	.08	38	1.77	.08	.13	14	48
11400N 10050E	2	19	10	81	.1	2	10	1206	6.62	8	5	ND	2	4	1	2	2	80	.04	.206	9	6	.15	103	.01	3	1.63	.01	.09	2	1
11400N 10075E	2	20	10	62	.3	2	4	285	3.46	6	5	ND	1	5	1	2	2	73	.05	.130	10	12	.14	145	.01	3	1.43	.01	.09	1	9
11400N 10100E	1	27	9	85	.1	4	8	835	4.39	5	5	ND	1	9	1	2	2	79	.13	.193	9	7	.23	264	.01	8	1.41	.02	.10	1	1
11400N 10125E	3	64	14	113	.1	11	28	1620	14.91	6	5	ND	3	9	1	2	2	103	.14	.227	23	4	.46	155	.01	6	1.12	.02	.07	2	65
11400N 10150E	3	182	8	103	.1	8	45	3235	14.35	11	5	ND	5	12	1	2	2	104	.21	.193	27	1	.47	311	.01	8	1.44	.02	.09	2	29
11400N 10175E	2	88	11	92	.1	7	25	1918	8.97	12	5	ND	3	13	1	2	2	79	.27	.127	22	2	.49	299	.01	3	1.29	.02	.10	1	6
11400N 10200E	3	87	10	122	.2	6	29	2539	11.70	6	5	ND	4	22	1	2	2	98	.33	.142	25	2	.45	243	.01	25	1.07	.03	.09	1	6
11400N 10225E	2	79	8	133	.1	5	23	2284	9.34	16	5	ND	2	24	1	2	2	81	.86	.185	21	3	.30	404	.01	5	.94	.02	.11	1	2
11400N 10250E	1	34	6	107	.1	5	19	1249	8.27	17	5	ND	3	11	1	2	2	79	.25	.131	15	4	.29	260	.01	3	1.01	.02	.10	1	2
11400N 10300E	2	81	7	87	.1	6	24	1902	9.76	24	5	ND	4	16	1	2	2	102	.35	.159	18	5	.20	412	.01	3	.61	.02	.14	1	9
11400N 10325E	2	101	5	84	.1	5	24	1795	11.41	39	5	ND	3	11	1	2	2	101	.16	.138	15	1	.17	228	.01	11	.65	.02	.10	1	41
11400N 10400E	3	19	57	93	.1	3	10	2241	5.63	14	5	ND	3	5	1	2	2	40	.06	.124	16	8	.14	185	.01	6	1.44	.02	.15	1	2
11400N 10425E	1	20	26	86	.1	3	8	1529	2.86	10	5	ND	4	12	1	2	3	22	.19	.094	21	2	.09	438	.01	2	.66	.01	.19	1	1
11400N 10450E	1	12	20	82	.2	1	6	1245	2.07	6	5	ND	3	10	1	2	2	19	.20	.079	20	1	.06	531	.01	2	.58	.01	.21	1	1
11400N 10500E	2	13	33	76	.3	5	8	1100	2.25	8	5	ND	4	15	1	2	2	22	.24	.091	23	6	.22	289	.01	3	1.49	.02	.18	1	1
11300N 10025E	2	63	14	101	.2	5	20	1554	7.64	19	5	ND	3	11	1	2	2	76	.19	.117	18	6	.36	325	.01	3	1.03	.02	.12	1	11
11300N 10050E	1	60	14	104	.1	7	20	2129	7.85	11	5	ND	3	10	1	2	2	88	.15	.135	21	5	.37	270	.01	3	1.38	.02	.09	1	6
11300N 10075E	3	26	16	109	.2	4	9	910	8.24	14	5	ND	2	6	1	2	2	67	.07	.178	19	9	.30	139	.01	4	3.12	.03	.07	1	1
11300N 10100E	2	147	10	99	.1	9	30	2872	10.61	11	5	ND	4	16	1	2	2	84	.22	.216	18	6	.24	961	.01	3	1.17	.02	.10	1	116
11300N 10125E	2	93	13	81	.1	4	15	1159	7.72	24	5	ND	2	4	1	2	2	87	.02	.137	16	6	.28	108	.01	5	1.48	.02	.08	1	8
11300N 10150E	2	67	17	87	.1	5	24	1943	11.10	26	5	ND	3	8	1	2	2	106	.09	.207	22	4	.20	110	.01	4	1.25	.02	.09	2	2
11300N 10175E	1	48	13	91	.1	6	24	1746	10.07	44	5	ND	3	7	1	2	2	89	.10	.169	21	2	.24	178	.01	3	.93	.02	.07	1	1
11300N 10200E	1	409	5	63	.1	9	57	3041	20.22	132	5	ND	5	5	1	2	2	105	.02	.325	23	5	.13	88	.01	4	.74	.01	.08	1	30

NORANDA EXPLORATION PROJECT-8708-090 281 FILE # 87-3506

SAMPLE	NO PPH	CU PPH	PB PPH	ZN PPH	AG PPH	MI PPH	CO PPH	NI PPH	FE PPH	AS PPH	U PPH	AU PPH	TR PPH	SR PPH	CO PPH	SB PPH	BI PPH	V PPH	CA PPH	P PPH	LA PPH	CR PPH	HG PPH	BA PPH	TI PPH	B PPH	AL PPH	MA PPH	K PPH	M PPH	NI PPH
11300H 10225E	1	79	16	81	.2	8	28	2100	9.85	41	5	ND	3	13	1	2	2	88	.11	.139	16	5	.22	180	.01	2	.62	.02	.07	1	8
11300H 10250E	1	81	29	143	.4	11	30	2210	12.33	98	5	ND	3	19	1	2	2	113	.24	.149	25	4	.30	232	.01	3	.85	.02	.10	1	25
11300H 10275E	1	50	11	81	.2	4	13	1100	6.31	58	5	ND	1	18	1	2	2	72	.51	.168	15	1	.17	679	.01	2	.95	.02	.08	2	4
11300H 10300E	1	89	15	49	.2	4	17	1139	7.77	39	5	ND	2	12	1	2	2	67	.14	.134	17	1	.15	393	.01	2	.84	.01	.12	1	815
11300H 10325E	1	84	23	80	.5	7	26	2024	9.26	42	5	ND	3	8	1	2	2	66	.09	.144	16	4	.18	291	.01	2	.62	.01	.11	1	12
11300H 10350E	1	68	44	115	.3	7	27	3844	10.83	43	5	ND	4	10	1	2	2	69	.14	.146	22	2	.20	412	.01	2	.67	.01	.10	1	16
11300H 10375E	1	19	37	80	.3	1	8	1856	3.53	11	5	ND	5	9	1	2	2	22	.26	.094	21	1	.08	471	.01	2	.58	.01	.18	1	1
11300H 10400E	1	12	36	86	.3	1	7	3008	3.68	4	5	ND	4	7	1	2	2	20	.25	.083	25	1	.08	1366	.01	2	.70	.01	.12	1	1
11300H 10425E	1	12	24	71	.1	1	6	1395	2.28	6	5	ND	3	2	1	2	2	19	.02	.072	10	1	.03	178	.01	2	.65	.01	.16	1	1
11300H 10450E	1	24	24	83	.1	1	5	1830	2.14	7	5	ND	1	6	1	2	2	19	.10	.109	7	1	.04	352	.01	2	.51	.01	.17	1	1
11300H 10475E	1	28	23	68	.2	2	7	1197	2.57	8	5	ND	4	13	1	2	2	22	.27	.083	23	1	.12	367	.01	2	.83	.02	.18	1	1
11300H 10500E	2	36	88	50	.6	3	16	1583	2.94	26	5	ND	3	9	1	2	2	22	.13	.160	14	1	.15	267	.01	4	1.21	.01	.19	1	2
11200H 10050E	1	49	22	83	.3	7	23	1431	9.15	19	5	ND	3	8	1	2	2	90	.17	.135	20	5	.23	184	.01	8	.88	.02	.08	1	3
11200H 10075E	4	46	21	89	.2	6	26	2084	10.21	16	5	ND	3	7	1	2	2	102	.10	.156	24	4	.16	171	.01	11	.95	.01	.10	1	1
11200H 10100E	1	35	12	90	.1	4	12	1144	7.61	12	5	ND	4	5	1	2	2	100	.04	.208	15	8	.08	153	.01	2	1.57	.01	.08	1	2
11200H 10125E	1	60	13	56	.4	3	22	1903	7.20	28	5	ND	4	6	1	2	2	48	.10	.178	18	2	.12	186	.01	2	.95	.01	.09	1	2
11200H 10150E	1	121	23	50	.1	4	32	2245	20.66	339	5	ND	5	3	1	2	2	113	.01	.226	19	4	.08	50	.01	6	.81	.01	.06	2	10
11200H 10175E	1	75	23	85	.2	6	22	1918	10.18	49	5	ND	4	5	1	2	2	83	.05	.181	14	3	.26	117	.01	5	.97	.01	.07	1	9
11200H 10200E	1	196	28	57	.3	4	22	1342	15.87	213	5	ND	4	7	1	2	2	72	.06	.224	14	4	.11	251	.01	4	.67	.01	.08	1	305
11200H 10225E	1	29	33	32	.1	1	23	895	16.96	47	5	ND	7	2	1	4	2	39	.01	.492	6	1	.03	44	.01	5	.31	.01	.07	3	5
11200H 10250E	3	115	34	73	.4	5	184	11903	18.72	60	5	ND	7	6	1	2	2	86	.01	.327	15	1	.04	99	.01	2	.55	.01	.07	1	21
11200H 10275E	2	127	24	80	.2	7	30	2127	13.14	51	5	ND	4	5	1	2	2	70	.03	.229	22	1	.14	160	.01	2	.80	.01	.06	2	40
11200H 10300E	4	62	29	133	.4	8	12	2088	7.99	25	5	ND	12	2	1	2	2	31	.03	.119	25	3	.15	91	.07	2	2.57	.07	.08	2	17
11200H 10325E	2	83	26	91	.4	7	19	2021	8.45	47	5	ND	3	4	1	3	2	63	.03	.142	17	6	.27	155	.01	2	1.47	.01	.09	1	52
11200H 10350E	3	40	68	220	.6	6	17	7084	11.71	26	5	ND	5	7	1	4	2	52	.04	.120	23	6	.21	576	.01	2	1.58	.01	.11	1	13
11200H 10375E	1	12	27	81	.4	2	8	1714	2.60	7	5	ND	6	11	1	2	3	20	.22	.072	21	1	.06	780	.01	2	.40	.01	.16	1	1
11200H 10400E	1	21	28	61	.3	3	10	1659	4.05	9	5	ND	6	12	1	2	3	30	.33	.089	20	4	.10	562	.01	2	.46	.02	.17	1	1
11200H 10425E	2	19	39	92	.1	2	13	4369	5.10	11	5	ND	4	3	1	2	4	27	.03	.129	18	1	.07	330	.01	4	.76	.01	.14	1	2
11200H 10450E	1	11	24	95	.3	2	5	1778	2.89	8	5	ND	1	6	1	2	3	22	.09	.155	7	3	.06	279	.01	2	.69	.01	.19	2	1
11200H 10475E	1	10	34	91	.4	2	8	1451	3.01	9	5	ND	3	12	1	2	2	23	.27	.094	22	1	.08	455	.01	2	.63	.01	.18	1	1
STD C/AU-5	18	57	40	129	7.1	68	28	1050	3.93	40	18	8	37	50	18	17	20	57	.47	.089	38	60	.86	179	.08	34	1.82	.08	.13	13	50

NORANDA VANCOUVER LABORATORY

PROPERTY/LOCATION:TODD CREEK (N. Zone)

CODE :8708-080

Project No. : 281 Sheet:1 of 1 Date rec'd:AUG.12
 Material :3 PAN-CON Geol.:R.B. Date compl:AUG.20
 Remarks :

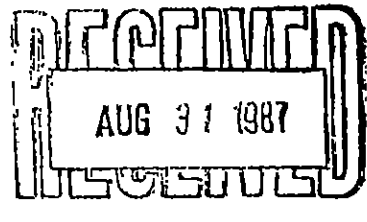
Values in PPM, except where noted.

T.T. No.	SAMPLE No.	SAMPLE wt. (g)	PPB Au	Cu	Zn	Pb	Ag
96	PAN 85210	51.3	140	280	78	40	0.8
97	85211	36.0	1680	170	56	14	0.2
98	PAN 85212	25.4	70	32	100	28	0.2

} N. Mid Zone

N.B. Sulfuric reaction in samples 85210 and 85211

N.B. Pan-cons: entire sample used for Au determination.
 *Cu, Zn, Pb, Ag values obtained from Aqua Regia sol'n.



cc: Kot
 file TODD 281

Central Cord District

Pan: BM. Au
s/s: 30 ICP + Au ^{To Assay}
R. (Cu, Au, Mo, Ag) (Au geochem)

Sheet 2 of 2

Lab Code 8708-080

RECORD OF SAMPLE TRANSMITTAL

NORANDA EXPLORATION COMPANY, LIMITED
P.O. BOX 2380
1050 DAVIE STREET
VANCOUVER, B.C.
V6B 3T5

Date Shipped: ???!
Date Received: Aug 12/87
Shipped Via: Bus
No. of Cartons: 4 Bays!!!!
No. of Samples: ? 2211!
Geologist: R. Baerg
Date: Aug 5/87

Project Todd Cr No. 281
(N. Zone)

MATERIAL:

SOIL

SILT

ROCK

Pan

SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT			SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT		
FROM/LINE	TO/STATION						FROM/LINE	TO/STATION					
10000N	10600E	104A/5				85210	Pan	Au, Cu, Pb, Zn Ag, Fe, As, Co					
	25					85211	"						
	50					85212	"						
	10675E												
85195	Rock	104A/5											
96													
97													
98													
99													
200													
01													
02													
03													
04													
05	silt												
06	Rock												
07	"												
08	"												
09	"												

Cu-Au Assay

Augeochem

Cu-Au Assay

CBC 281 EX 8708-080

CBC 281
PAN 8708-080

ANALYTICAL INSTRUCTIONS

ALL SAMPLES: (Cu, Pb, Zn, Mo, Ag)
(Cu, Pb, Zn, Mo, Ag) + ___ + ___
(Cu, Pb, Zn, Mo, Ag) + AS NOTED

SPECIAL INSTRUCTIONS OR REMARKS:
ICP + Augeochem
or Cu-Au Assay as noted above

RESULTS TO: Prince George

Central Coast District

Sheet 1 of 2

48 Soils

RECORD OF SAMPLE TRANSMITTAL

Lab Code _____

Date Shipped: _____

Date Received: _____

Shipped Via: Bus

No. of Cartons: _____

No. of Samples: _____

Geologist: R. B. Acryg

Date: Aug 5/87

NORANDA EXPLORATION COMPANY, LIMITED
 P.O. BOX 2380
 1050 DAVIE STREET
 VANCOUVER, B.C.
 V6B 3T5

MATERIAL:

SOIL

SILT

ROCK

Project Todd Cr. (N. Zone) No. 281

SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT			SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT		
FROM/LINE	TO/STATION			FROM/LINE	TO/STATION		FROM/LINE	TO/STATION			FROM/LINE	TO/STATION	
9800N	10000E	104A/5				10000N	10000E						
	25						25						
	50						50						
	75						75						
	100						100						
	25						25						
	50						50						
	75						75						
	200						200						
	25						25						
	50						50	N/S					
	75						75						
	300						300						
	25						25						
	50						50						
	75						75						
	400						400						
	25						25						
	50						50						
	75						75						
	10500E						500						
	200						25						
							50						
							10525E						

ANALYTICAL INSTRUCTIONS

ALL SAMPLES: (Cu, Pb, Zn, Mo, Ag)
 (Cu, Pb, Zn, Mo, Ag) + ___ + ___
 (Cu, Pb, Zn, Mo, Ag) + AS NOTED

SPECIAL INSTRUCTIONS OR REMARKS:

RESULTS TO: Prince George

Todd Co / Ni Zone (RB) 8709-001

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS, VANCOUVER B.C.

DATE RECEIVED AUG 26 1987

PH: (604) 253-3158 COMPUTER LINE: 251-1011

DATE REPORTS MAILED Aug 29/87

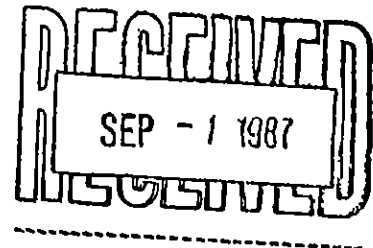
ASSAY CERTIFICATE

SAMPLE TYPE : ROCK - CRUSHED AND PULVERIZED TO -100 MESH.

ASSAYER Debye DEAN TOYE, CERTIFIED B.C. ASSAYER

NORANDA EXPLORATION PROJECT 8709-001 281 FILE# 87-3621A PAGE# 1

SAMPLE	Cu %	Au oz/t	
87526	.67	.035	N. Zone
87528	.02	.001	
87529	.59	.018	
87530	3.33	.024	
87531	2.02	.011	
87532	3.04	.031	Hole 2 core
87533	.08	.001	
87534	.58	.223	



"Pan to follow"

cc: Rob
file: Todd 281

2/2 it

ACHE 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-HANDLED AT 95 DEG C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LENGTH IS PARTIAL FOR THE FE CA P LA CR NI BA TI B N AND LIMITED FOR NA AND K. NO DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: P1-BILL P2-ROCK - ALL ANALYSIS BY NA FROM 10 GRAM SAMPLE.

SILTS - 20 PPM, Pulverized

Aug 29/87

ASSAYER: D. J. J.

DEAN TOYE, CERTIFIED B.C. ASSAYER

DATE RECEIVED: AUG 28 1987

DATE REPORT MAILED: AUG 29 1987

NORANDA EXPLORATION (VAN) PROJECT-8709-001 281 File # 87-3621

Page 1

SAMPLE	NO	CU	PB	ZN	AS	NI	CO	MN	FE	AS	U	AU	TH	SR	CD	SB	BI	V	CR	P	LA	CR	MG	BA	TI	B	AL	NA	K	N	AUT
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	
80957	1	28	25	149	1.1	5	11	1121	4.45	58	5	NO	5	23	1	2	2	55	.58	.084	14	5	1.00	299	.09	5	1.57	.04	.13	1	2
80958	2	16	15	105	.6	4	8	827	4.54	219	5	NO	3	26	1	8	2	47	.36	.044	10	8	.92	571	.03	8	1.75	.04	.14	1	2
80959	1	22	14	102	.4	3	8	850	4.30	121	5	NO	3	38	1	5	2	39	.93	.047	10	4	.76	250	.02	13	1.57	.04	.16	1	1
80962	2	23	28	124	.6	3	10	930	4.58	58	5	NO	3	27	1	2	2	41	.48	.075	12	1	.86	261	.06	16	1.89	.04	.18	1	1
80964	1	22	19	93	.5	3	11	900	4.73	28	5	NO	4	26	1	2	2	44	.71	.072	10	3	1.39	286	.07	38	2.13	.05	.15	1	1
80966	2	29	26	151	.8	4	9	991	4.13	49	5	NO	4	19	1	4	2	49	.35	.065	13	8	.83	231	.07	8	1.61	.04	.21	1	1
80968	1	17	46	212	2.3	3	10	1173	4.21	36	5	NO	3	27	1	2	2	51	.43	.049	12	4	.73	684	.07	7	1.39	.04	.22	1	1
80972	2	20	35	163	.4	3	10	1636	3.42	30	5	NO	3	22	1	2	2	44	.32	.053	15	4	.80	346	.04	19	1.34	.04	.22	1	1
80978	1	24	22	110	.9	2	8	850	4.23	97	5	NO	3	43	1	5	2	53	1.23	.045	10	9	.90	275	.07	11	1.55	.05	.15	1	2
80990	1	18	14	90	.4	2	8	852	4.28	47	5	NO	3	18	1	2	2	44	.36	.045	10	2	.89	137	.07	5	1.61	.04	.12	1	10
80992	2	19	19	109	.5	3	9	1042	4.14	41	5	NO	3	20	1	2	2	50	.38	.061	10	7	.97	154	.12	9	1.87	.05	.18	1	5
80993	1	16	10	81	.4	3	7	796	3.78	26	5	NO	2	18	1	2	2	37	.46	.057	9	5	.95	129	.07	6	1.61	.04	.14	1	2
80994	1	14	19	101	.3	7	9	948	4.05	26	5	NO	3	20	1	2	2	52	.38	.083	13	9	.96	150	.10	4	1.60	.04	.15	2	2
80995	1	15	15	99	.5	7	8	904	3.87	29	5	NO	3	21	1	3	2	49	.34	.070	11	6	.95	138	.10	5	1.61	.04	.14	1	3
80997	1	17	21	107	.4	5	8	917	4.03	33	5	NO	3	20	1	2	2	47	.34	.048	11	6	1.02	166	.09	7	1.71	.05	.14	1	4
80998	1	20	18	115	.5	4	10	943	3.94	18	5	NO	3	19	1	2	2	48	.33	.063	11	4	.97	169	.08	4	1.54	.04	.15	1	1
STD C/AL-5	18	58	42	135	7.6	69	28	1069	3.94	40	18	8	38	51	18	17	20	58	.48	.089	38	58	.89	183	.08	34	1.87	.09	.14	13	47

17/11/02

80972

NORANDA EXPLORATION (VAN) PROJECT-8709-001 281 FILE # 87-3621

1.041110
 CR

SAMPLE#	NO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE PPM	AS PPM	U PPM	AU PPM	TR PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA PPM	P PPM	LA PPM	CR PPM	HG PPM	BA PPM	TI PPM	B PPM	AL PPM	NA PPM	K PPM	M PPM	AUT PPM
80973	43	18	29	141	1.9	3	10	1018	10.96	4072	5	ND	3	20	1	74	2	54	.77	.095	10	5	.53	7	.11	11	1.46	.07	.19	1	18
80974	28	43	129	14	9.1	4	2	112	7.05	5330	5	ND	1	3	1	73	3	8	.03	.001	2	3	.05	16	.01	9	.10	.03	.04	1	175
80975	14	55	98	163	7.0	3	10	509	11.13	2847	5	ND	2	8	2	53	2	49	.31	.044	5	2	.60	13	.14	6	1.35	.04	.18	1	150

Central Cord District

AN: (Cu, Au, Ag) (S, T, Cl, Au)
Silt - S, T, Cl, Au
PANs: BM, Au

Sheet 1 of 1

Lab Code 8709-001

RECORD OF SAMPLE TRANSMITTAL

U.P.
ANJS+1

NORANDA EXPLORATION COMPANY, LIMITED
P.O. BOX 2380
1050 DAVIE STREET
VANCOUVER, B.C.
V6B 3T5

Date Shipped: 33!?
Date Received: Aug. 25/87
Shipped Via: Bus
No. of Cartons: _____
No. of Samples: 24
Geologist: R. Baerg
Date: Aug 18/87

MATERIAL:
 SOIL
 SILT
 ROCK
 Pan

Project Todd Cr No. 281
(N. Zone)

SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT		SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT	
FROM/LINE	TO/STATION			FROM/LINE	TO/STATION	FROM/LINE	TO/STATION				
87526	Rock					80970	Silt				
87527	Rock										
28	"										
29	"										
30	"										
31	"										
32	"										
33	"										
34	"										
80956	Pan										
57	Silt										
58	Silt										
59	Silt										
60	Pan										
61	Pan										
62	Silt										
63	Pan										
64	Silt										
65	Pan										
66	Silt										
67	Pan										
68	Silt										
69	Pan										

Cu-Au Assay

CBC 281
PAN 8709-001

CBC 281
PAN 8709-001

ANALYTICAL INSTRUCTIONS

ALL SAMPLES: (Cu, Pb, Zn, Mo, Ag)
(Cu, Pb, Zn, Mo, Ag) + _____
(Cu, Pb, Zn, Mo, Ag) + AS NOTED

SPECIAL INSTRUCTIONS OR REMARKS:

Rocks - Cu + Au Assay
 Silt - Au geochem + ICP
Pan - Au, Ag, Cu, Pb, Zn, As, Co, Fe

RESULTS TO: Prince George

Central District
 and

Sheet 1 of 1

RECORD OF SAMPLE TRANSMITTAL

NORANDA EXPLORATION COMPANY, LIMITED
 P.O. BOX 2380
 1050 DAVIE STREET
 VANCOUVER, B.C.
 V6B 3T5

Lab Code _____
 Date Shipped: Aug 24
 Date Received: _____
 Shipped Via: Bus
 No. of Cartons: 1
 No. of Samples: 15
 Geologist: R. Baerg
 Date: Aug 24/57

Project Todd Cr No. 281

MATERIAL:
 SOIL
 SILT
 ROCK
 Pan

SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT			SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT		
FROM/LINE	TO/STATION						FROM/LINE	TO/STATION					
80971	Pan												
72	Silt												
73	Rock												
74	"												
80975	"												
80988	Pan												
89	Silt												
90	Pan Silt												
91	Silt Pan												
80992	Silt												
93	"												
94	"												
95	"												
96	Pan ✓												
97	Silt PAN												
98	SILT												

Rush!!!

ANALYTICAL INSTRUCTIONS: ALL SAMPLES: (Cu, Pb, Zn, Mo, Ag) (Cu, Pb, Zn, Mo, Ag) + ___ + ___ (Cu, Pb, Zn, Mo, Ag) + AS NOTED

RESULTS TO: Prince George

SPECIAL INSTRUCTIONS OR REMARKS:
 Silt: Au geochem & ICP
 Rock " " "
 Pan: Au, Ag, Cu, Pb, Zn, As, Co, Fe

NORANDA EXPLORATION COMPANY, LIMITED

PROPERTY Todd Creek (N. Zone)

N.T.S. 104A/53

DATE Aug 18/87

ROCK SAMPLE REPORT

PROJECT: 281

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G	A	G	A	G	A	G	A	G	A	SAMPLED BY
					<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
37526	Trench 2, resample of sample 55458, gtz-chl-hem-py-cpx bx vein	5	chip	.30m	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									RB
37527	Trench 2, resample of sample 55460, as for 87526	5-7	chip	1.1m	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									RB
7528	gtz-py-scr-cpx vein and bx	3-5	grab comp		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									RB
7529	Trench 1, resample of sample 55464, as for 87526	5-7	chip	.6m	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									RB
37530	Trench 1, resample of sample 55465, as for 87526	10	chip	2.0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									RB
7531	as for 87526	5	chip	.3m	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									RB
7532	as for 87526	5-7	chip	2m	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									RB
37533	grab of gtz-hem-chl-py-cpx bx vein material from Hole 23	2-3	grab comp		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									RB
7534	for 87533, Hole 22	2-3	comp		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									RB

G = GEOCHEM A = ASSAY

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS, VANCOUVER B.C.
PH: (604)253-3158 COMPUTER LINE:251-1011

DATE RECEIVED AUGUST 17 1987
DATE REPORTS MAILED *Aug 29/87*

ASSAY CERTIFICATE

SAMPLE TYPE : ROCK - CRUSHED AND PULVERTIZED TO -100 MESH.

ASSAYER *D. Toye* DEAN TOYE . CERTIFIED B.C. ASSAYER

NORANDA EXPLORATION PROJECT 8708-080 281 FILE# 87-3365A PAGE# 1

SAMPLE	Cu %	Au oz/t	
85202	.23	.008	} N. Zone Todd Cr Valley
85203	.13	.009	
85204	.01	.005	

RECEIVED
SEP - 1 1987

cc: Prob
" file: TODD 281

..

27/87

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 NM FE CA P LA CR MG BA TI B W AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: P1-SOIL P2-SOIL/SILT P3-ROCK AU: ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: AUG 17 1987 DATE REPORT MAILED: Aug 29/87 ASSAYER: *[Signature]* DEAN TOYE, CERTIFIED B.C. ASSAYER

NORANDA EXPLORATION PROJECT-8708-080 281 File # 87-3365 Page 1

SAMPLE#	MO	CU	PB	ZN	AG	NI	CO	NM	FE	AS	U	AU	TH	SR	CD	SB	BI	V	CA	P	LA	CR	MG	BA	TI	B	AL	NA	K	W	AU
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	%	%	%	%	PPM	PPM
10000N 10000E	2	123	19	105	.3	5	22	1853	8.63	37	5	ND	4	29	1	2	2	66	.90	.138	15	4	.61	53	.01	2	.93	.03	.14	1	21
10000N 10025E	2	62	21	110	.5	7	19	1621	7.55	34	5	ND	4	31	1	2	2	62	.80	.127	15	7	.78	99	.01	11	1.26	.03	.16	1	12
10000N 10050E	1	71	24	118	.3	5	21	1454	9.06	49	5	ND	4	30	1	2	2	53	.60	.119	14	2	.46	199	.01	2	.91	.02	.14	1	24
10000N 10075E	1	52	17	70	.5	4	14	910	5.03	17	5	ND	2	68	1	2	2	43	13.90	.101	9	3	.83	205	.01	8	1.11	.01	.12	2	23
10000N 10100E	1	89	22	95	.5	7	23	1346	8.81	33	5	ND	3	43	1	2	2	64	2.21	.125	13	6	.84	48	.01	2	1.02	.03	.09	1	10
10000N 10125E	1	80	21	103	.4	6	24	1314	9.50	46	5	ND	4	26	1	2	2	64	.78	.121	13	4	.80	50	.01	10	1.10	.03	.10	1	63
10000N 10150E	1	93	20	108	.4	8	27	1595	9.39	20	5	ND	3	48	1	2	2	68	4.40	.135	13	6	.96	42	.01	2	1.00	.02	.12	1	6
10000N 10175E	1	118	23	88	.8	9	29	1250	10.41	27	5	ND	3	57	1	2	2	59	5.14	.126	11	4	1.19	21	.01	2	.89	.02	.10	2	11
10000N 10200E	1	105	23	109	.5	9	29	1691	10.80	21	5	ND	3	43	1	2	2	69	1.80	.141	15	5	1.00	42	.01	2	1.04	.03	.11	1	4
10000N 10225E	2	66	21	125	.4	7	22	2016	7.79	15	5	ND	4	29	1	2	2	72	1.01	.095	19	6	.84	317	.01	9	1.53	.03	.13	1	1
10000N 10275E	1	100	28	99	.6	7	28	1610	11.83	59	5	ND	3	26	1	2	2	69	.80	.125	14	4	.61	76	.01	3	.88	.03	.10	1	42
10000N 10300E	1	53	22	125	.4	6	20	1646	7.83	21	5	ND	3	24	1	2	2	63	.62	.137	21	6	.58	322	.01	4	1.04	.02	.12	1	14
10000N 10325E	2	174	21	99	.4	6	23	2309	8.52	27	5	ND	4	27	1	2	2	63	.74	.160	21	7	.58	426	.01	9	1.19	.03	.14	1	64
10000N 10350E	1	87	29	107	.4	4	18	1253	7.85	39	5	ND	4	11	1	2	2	47	.20	.126	15	4	.39	340	.01	3	.90	.02	.13	1	105
10000N 10375E	1	98	22	114	.6	6	18	1412	7.82	43	5	ND	3	27	1	2	2	58	.54	.131	18	4	.61	334	.01	9	1.18	.03	.11	1	250
10000N 10400E	1	162	26	82	.7	6	22	1760	8.87	37	5	ND	4	17	1	2	2	60	.35	.126	22	6	.66	237	.01	4	1.49	.02	.12	1	240
10000N 10425E	1	156	27	87	.5	3	12	556	10.04	74	5	ND	4	6	1	2	2	83	.08	.205	16	7	.65	132	.01	3	2.20	.02	.11	1	230
10000N 10450E	1	147	34	109	.7	4	21	2485	9.44	38	5	ND	3	14	1	2	2	79	.35	.178	25	5	.62	393	.01	3	1.79	.02	.14	1	120
10000N 10475E	1	225	32	79	.4	3	18	1013	14.97	71	5	ND	5	4	1	2	2	93	.03	.181	15	4	.68	148	.01	3	2.25	.01	.11	2	90
10000N 10500E	2	490	36	98	.6	4	24	1995	11.23	69	5	ND	5	3	1	3	2	77	.02	.131	15	7	.81	93	.01	4	2.53	.01	.11	1	154
10000N 10525E	2	253	33	60	.9	3	10	379	9.52	69	5	ND	3	3	1	2	3	100	.02	.242	14	5	.52	76	.01	3	1.97	.01	.11	1	360
10000N 10550E	2	1030	39	128	.7	5	23	2125	13.50	81	5	ND	4	12	1	3	2	73	.16	.176	20	5	.93	225	.01	4	1.88	.02	.11	1	250
10000N 10575E	4	128	36	164	.6	4	19	2095	9.83	49	5	ND	4	5	1	2	2	62	.09	.203	18	6	.23	152	.01	3	1.45	.01	.14	1	25
10000N 10600E	3	293	49	170	.7	4	23	2465	10.52	168	5	ND	4	14	1	2	2	75	.24	.173	25	4	.42	213	.01	2	2.35	.02	.10	1	21
10000N 10625E	1	278	75	79	2.1	1	10	473	13.57	127	5	ND	4	111	1	2	2	25	.02	.149	14	1	.07	144	.01	8	.85	.02	.44	2	105
10000N 10650E	6	95	96	179	1.0	2	14	1224	10.11	164	5	ND	4	4	1	2	2	56	.04	.130	11	1	.16	86	.01	3	1.92	.01	.13	1	32
10000N 10675E	4	39	27	69	.1	3	7	596	6.30	62	5	ND	3	3	1	3	2	38	.04	.083	8	2	.04	83	.01	3	.89	.01	.11	1	5
9800N 10000E	1	74	23	101	.4	5	22	1636	9.22	59	5	ND	4	18	1	2	2	51	.36	.130	17	3	.24	209	.01	3	.63	.02	.13	2	20
9800N 10025E	1	58	25	106	.4	3	13	773	5.02	25	6	ND	5	26	1	2	3	35	.36	.102	18	1	.25	238	.01	8	.64	.02	.15	1	21
9800N 10050E	1	69	30	119	.5	3	18	1654	7.17	37	5	ND	5	24	1	2	2	40	.40	.114	18	1	.29	249	.01	9	.72	.02	.15	1	19
9800N 10075E	1	62	29	113	.5	3	16	1261	6.89	36	5	ND	4	15	1	2	2	42	.29	.115	19	1	.28	297	.01	3	.70	.02	.13	1	72
9800N 10100E	1	69	29	110	.5	3	15	1259	6.81	33	5	ND	4	14	1	2	2	38	.22	.115	18	1	.23	319	.01	6	.64	.02	.14	2	31
9800N 10125E	1	75	28	115	.5	4	17	1549	7.25	37	7	ND	4	10	1	2	2	43	.17	.116	20	1	.27	342	.01	3	.71	.01	.13	2	30
9800N 10150E	3	37	48	91	.7	4	12	1003	6.19	30	5	ND	3	61	1	2	2	52	.37	.148	27	8	.48	216	.01	7	1.42	.02	.11	1	11
9800N 10175E	2	35	156	159	1.1	10	13	1732	4.70	34	5	ND	3	22	1	4	3	54	.28	.112	28	11	.51	394	.03	5	1.74	.02	.14	2	1
9800N 10200E	2	58	36	102	1.0	6	8	689	5.63	31	5	ND	3	7	1	2	2	59	.10	.202	20	9	.34	178	.01	6	2.21	.02	.13	1	17
STD C/AU-S	18	57	40	132	7.3	69	28	1051	4.08	43	17	7	36	49	19	16	20	57	.50	.091	37	61	.89	174	.08	32	1.82	.08	.13	13	49

*N. P. 10
2018*

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	HG %	BA PPM	TI %	B PPM	AL %	NA %	K %	M PPM	AU8 PPM
9800N 10225E	2	134	40	93	.6	4	16	521	10.63	78	5	ND	3	34	1	5	2	66	.38	.109	25	3	.42	203	.01	3	1.81	.02	.12	1	58
9800N 10250E	7	605	33	70	.3	3	21	2083	12.84	102	6	ND	4	26	1	5	4	60	.31	.180	27	2	.42	154	.01	7	1.98	.02	.09	3	91
9800N 10275E	4	150	19	76	.3	3	11	1198	5.74	31	5	ND	3	7	1	3	2	53	.08	.148	14	7	.55	137	.01	4	1.93	.02	.14	1	39
9800N 10300E	3	197	28	66	.1	2	12	1052	6.29	28	5	ND	2	9	1	2	2	63	.12	.092	17	8	.43	114	.01	6	2.47	.02	.12	1	29
9800N 10325E	3	242	28	68	.2	3	18	1498	9.34	35	5	ND	3	4	1	2	2	60	.02	.156	17	5	.38	99	.01	4	1.67	.01	.11	1	71
9800N 10350E	2	244	29	51	.3	2	9	718	7.54	35	5	ND	2	3	1	3	2	71	.03	.129	15	10	.39	90	.01	3	1.92	.01	.10	1	315
9800N 10375E	2	255	27	53	.1	2	16	1212	7.58	38	5	ND	3	2	1	4	2	52	.02	.137	20	3	.66	72	.01	4	1.57	.01	.09	1	97
9800N 10400E	3	332	26	49	.3	3	27	2450	9.48	49	5	ND	3	5	1	3	2	57	.02	.126	20	8	.52	169	.01	3	1.67	.01	.10	2	215
9800N 10425E	1	248	27	43	.1	2	20	1021	18.19	51	5	ND	3	17	1	2	2	43	.18	.182	20	1	.23	122	.01	4	.87	.02	.11	1	195
9800N 10450E	2	91	30	58	.1	8	89	3827	23.29	39	6	ND	3	29	1	2	2	49	.34	.197	19	3	.20	156	.01	6	.83	.02	.10	1	58
9800N 10475E	2	174	30	74	.4	1	25	3001	13.24	49	5	ND	4	12	1	2	2	57	.22	.177	30	1	.34	138	.01	3	1.47	.02	.12	1	48
9800N 10500E	3	78	27	87	.2	3	19	2001	7.37	31	5	ND	3	12	1	2	2	59	.30	.183	19	4	.28	368	.01	5	1.96	.02	.10	1	10
65205	2	170	47	152	.4	4	10	1639	4.75	34	5	ND	3	18	1	2	2	35	.42	.075	17	3	.36	217	.02	4	1.01	.02	.16	1	65

SAMPLE	Aux ppb	
85195	1735	} N. Mid Zone
85196	260	
85197	150	
85198	9980	
85199	6850	
85200	4110	} A. Zone
85201	1995	
85206	850	} B. Zone
85207	3220	
85208	8430	
85209	640	

NORANDA VANCOUVER LABORATORY

PROPERTY/LOCATION: TODD CREEK

CODE : 8708-090

Project No.
Material
Remarks

: 281
: 3 PAN#
:

Sheet: 1 of 1
Geol.: R.B.

Date rec'd: AUG. 17
Date compl: AUG. 28

Values in PPM, except where noted.

T.T. No.	SAMPLE No.	Sample wt. (g)	PPB Au	Cu	Zn	Pb	Ag
88	85220	27.8	110	7000	92	16	0.6
89	85224	41.0	130	240	110	220	0.8
90	85225	56.0	10	50	34	8	0.2

} Mid Zone

N.B. Pan-con: entire sample used for Au determination.

*Cu, Zn, Pb, Ag values obtained from Aqua Regia sol'n.

RECEIVED
SEP - 3 1987
RESULTS

cc: Rob
file: TODD-281

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

DATE RECEIVED: AUG 21 1987

DATE REPORT MAILED: *aug 31/87*....

ASSAY CERTIFICATE

- SAMPLE TYPE: Rock Chips

ASSAYER: *D. Toye* DEAN TOYE, CERTIFIED B.C. ASSAYER

NORANDA EXPLORATION (VAN) PROJECT-8708-090 281 File # 87-3506A

SAMPLE#	CU %	PB %	ZN %	AG OZ/T	AU OZ/T
85218	3.63	-	-	-	.020
85219	-	1.17	1.71	.37	.001
85223	14.14	-	-	-	.010
85529	-	7.70	12.55	13.85	.001
85533	4.70	-	-	-	.001
85536	4.34	-	-	-	.001
85537	.76	-	-	-	.001
85538	2.06	-	-	-	.001
85539	3.84	-	-	-	.001
85540	1.62	-	-	-	.001
85541	1.35	-	-	-	.001

22.50
30.00

*Mid
Zone*

GEOCHEMICAL/ASSAY CERTIFICATE

.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 LA CR NG BA TI B W AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: ROCK

DATE RECEIVED: AUG 21 1987

DATE REPORT MAILED: Aug 31/87

ASSAYER: *D. Toye*...DEAN TOYE, CERTIFIED B.C. ASSAYER

NORANDA EXPLORATION (VAN) PROJECT-8708-090 281 File # 87-3506A

SAMPLE#	NO	CU	PB	ZN	AG	NI	CO	MN	FE	AS	U	AU	TH	SR	CD	SB	BI	V	CA	P	LA	CR	MG	BA	TI	B	AL	NA	K	W
	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	Z	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	Z	Z	PPH	PPH	Z	PPH	Z	PPH	Z	Z	Z	PPH
85218	1	32103	43	140	2.1	41	60	370	25.29	318	5	ND	2	17	2	2	9	41	.37	.026	2	19	.88	5	.01	11	1.85	.03	.04	3
85219	6	1229	9940	16739	12.3	2	13	3957	6.81	115	5	ND	2	93	113	15	5	16	7.51	.048	9	5	4.06	29	.01	24	.46	.01	.13	1
85223	1	92522	51	292	5.2	3	30	1514	33.93	234	5	ND	3	21	10	6	102	9	1.87	.003	17	1	1.07	5	.01	2	.04	.04	.01	1
85529	22	2776	29396	99999	151.9	3	8	4102	4.48	108	5	ND	3	66	920	31	4	10	4.54	.032	5	1	2.31	14	.01	25	.30	.03	.10	3
85533	4	41249	12	1	17.1	3	43	145	9.05	145	5	ND	1	2	3	2	98	5	.13	.003	3	1	.12	11	.01	2	.17	.01	.03	1
85536	4	38376	162	308	14.6	3	53	82	11.05	85	5	ND	1	1	5	4	27	4	.01	.001	2	4	.07	12	.01	2	.14	.01	.02	1
85537	5	7394	68	176	5.8	2	175	705	17.41	167	8	ND	1	31	2	2	8	20	1.77	.014	3	1	.95	5	.01	15	.89	.03	.06	1
85538	8	18727	110	199	13.1	2	61	448	12.49	264	5	ND	2	23	3	2	30	19	.79	.011	5	1	.62	5	.01	2	.69	.03	.05	1
85539	6	30096	69	189	12.2	2	45	1345	16.05	158	5	ND	3	64	3	2	10	34	3.09	.029	2	2	1.63	62	.01	2	1.47	.03	.08	1
85540	6	15294	123	273	17.2	4	82	301	14.90	172	5	ND	1	6	2	6	19	50	.15	.021	4	1	1.52	5	.01	2	1.82	.02	.04	4
85541	5	12311	486	886	20.7	3	23	593	11.28	78	5	ND	2	15	7	2	19	120	.48	.070	8	7	3.04	15	.01	22	3.79	.04	.07	4
STD C	19	60	41	130	7.0	67	27	1019	3.83	42	17	7	36	47	18	17	22	55	.46	.087	36	59	.85	173	.08	38	1.79	.08	.13	14

*Mia
Zor*

ASSAY REQUIRED FOR *Cu > 10,000 ppm*
Zn > 20,000 ppm
Ag > 35 ppm

GEOCHEMICAL ICP ANALYSIS

.300 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 LA CR HG BA TI B W AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: P1-SILT P2 TO P4-TALUS P5-ROCK AUX ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: AUG 21 1987

DATE REPORT MAILED:

Aug 31/87

ASSAYER: *D. Toy*...DEAN TOYE, CERTIFIED B.C. ASSAYER

NORANDA EXPLORATION (VAN) PROJECT-B708-090 281 File # 87-3506 Page 1

SAMPLE#	MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS	U	AU	TH	SR	CD	SB	BI	V	CA	P	LA	CR	HG	BA	TI	B	AL	NA	K	W	AUX
	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	Z	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	Z	Z	PPH	PPH	Z	PPH	Z	Z	Z	Z	Z	PPH	PPH
85221	2	54	18	116	.4	7	24	1409	9.26	49	5	ND	4	31	1	2	2	62	.50	.136	19	4	.80	221	.01	3	1.22	.03	.09	1	1
85222	5	148	21	128	.1	8	29	3192	10.95	54	5	ND	4	24	1	2	2	56	.59	.135	15	1	.39	56	.01	3	.74	.02	.10	1	1
85528	2	51	16	63	.4	4	19	899	5.99	19	5	ND	4	40	1	2	2	62	.39	.102	10	4	.78	176	.12	4	1.35	.03	.09	1	18
85530	6	200	69	97	1.2	5	27	1029	9.17	140	5	ND	7	16	1	4	2	25	.53	.077	14	1	.43	15	.01	5	.67	.03	.10	1	7
85531	5	208	62	100	1.4	5	29	969	10.26	171	7	ND	7	17	1	4	2	24	.73	.068	13	1	.49	13	.01	2	.62	.02	.09	1	3
85532	11	281	55	188	1.1	5	23	1449	7.89	141	5	ND	7	17	1	2	2	41	.37	.113	19	3	.55	70	.01	4	.95	.02	.11	1	6
85542	11	425	79	237	1.9	10	35	1570	11.30	203	5	ND	5	23	1	14	2	62	.45	.103	18	7	1.19	25	.01	3	1.50	.03	.09	1	1
STD C	18	57	40	131	6.8	67	27	1027	3.97	42	19	8	36	49	18	17	20	56	.48	.088	36	56	.88	175	.08	34	1.85	.08	.12	11	-

SAMPLE#	MO PPH	CU PPH	PB PPH	ZN PPH	AG PPH	NI PPH	CO PPH	MM PPH	FE %	AS PPH	U PPH	AU PPH	TH PPH	SR PPH	CD PPH	SB PPH	BI PPH	V PPH	CA %	P %	LA PPH	CR PPH	MG %	BA PPH	TI %	B PPH	AL %	NA %	K %	# PPH	AU1 PPH
11500 9550E	4	18	25	78	.1	3	8	1855	5.18	24	5	ND	2	3	1	2	3	46	.05	.108	14	3	.08	157	.01	2	.89	.01	.20	1	1
11500 9575E	14	25	35	200	.6	3	12	2590	6.96	140	5	ND	3	10	1	2	2	44	.31	.086	24	6	.14	176	.01	2	.68	.02	.17	1	1
11500 9600E	27	22	22	115	.6	6	20	2132	6.01	52	5	ND	9	11	1	2	3	25	.36	.100	30	1	.11	426	.01	3	.46	.01	.17	1	3
11500 9625E	2	16	16	63	.4	4	12	1632	3.70	9	5	ND	11	16	1	4	2	17	.51	.139	32	5	.10	319	.01	24	.49	.03	.24	1	2
11500 9650E	2	19	13	65	.4	3	9	1240	3.99	10	5	ND	9	11	1	2	2	19	.35	.117	32	1	.09	289	.01	5	.48	.02	.19	2	2
11500 9675E	2	22	16	66	.2	5	10	1855	4.21	9	5	ND	3	6	1	2	2	27	.13	.095	25	3	.12	314	.01	2	.78	.01	.19	1	3
11500 9750E	1	64	18	67	.7	16	21	1283	9.02	30	5	ND	4	51	1	2	3	51	.15	.121	16	6	.14	271	.01	2	.48	.07	.17	1	143
11500 9775E	2	276	20	80	.5	11	28	1917	9.90	24	6	ND	4	17	1	2	2	61	.10	.121	16	5	.22	240	.01	2	.73	.02	.12	1	17
11500 9825E	1	23	19	47	.5	4	16	949	10.81	35	5	ND	3	22	1	2	2	36	.05	.191	17	7	.62	141	.01	2	1.09	.03	.13	1	1
11500 9850E	1	45	17	98	.3	9	19	1711	5.95	11	5	ND	3	22	1	2	2	67	.34	.110	26	10	1.24	402	.01	7	2.15	.04	.18	1	3
11500 9875E	2	45	24	120	.2	12	25	1749	8.38	12	5	ND	3	16	1	2	2	86	.17	.127	20	19	1.79	198	.01	2	2.51	.02	.11	1	2
11500 9900E	1	56	19	135	.4	12	24	2948	7.26	6	5	ND	4	18	1	2	2	103	.38	.128	29	20	1.87	469	.01	9	2.89	.03	.16	1	1
11500 9925E	1	39	25	111	.4	8	18	2332	7.00	13	5	ND	3	20	1	2	2	97	.38	.117	35	9	.73	563	.01	4	1.91	.03	.22	1	1
11500 9950E	1	51	14	136	.3	7	23	2652	7.70	5	5	ND	4	27	1	2	2	96	.54	.154	26	5	.74	656	.02	5	1.54	.03	.19	1	1
11500 9975E	1	34	15	129	.3	7	23	2184	8.16	7	5	ND	4	21	1	2	2	102	.47	.159	26	3	1.43	288	.01	9	2.47	.04	.14	1	1
11500 10000E	1	19	17	124	.5	5	24	2263	6.56	9	6	ND	4	36	1	3	2	93	.60	.125	25	2	.63	306	.03	6	1.11	.03	.19	2	2
11500 10050E	1	43	19	117	.3	6	22	2272	7.20	10	5	ND	4	21	1	2	2	91	.41	.116	22	6	.61	491	.05	5	1.18	.03	.14	1	5
11500 10075E	1	30	15	116	.2	4	20	1963	6.67	10	5	ND	3	22	1	2	2	88	.60	.119	17	3	.48	376	.04	7	.96	.03	.13	1	2
11500 10100E	1	29	12	116	.1	5	22	2044	7.20	5	5	ND	5	24	1	2	2	97	.82	.129	19	2	.58	346	.05	5	.86	.03	.14	1	2
11500 10125E	1	59	16	127	.4	6	21	3335	6.92	8	5	ND	4	24	1	2	2	86	.62	.128	29	5	.73	538	.02	8	1.54	.03	.14	1	2
11500 10150E	1	36	21	124	.3	6	23	2163	7.83	4	5	ND	4	13	1	2	2	97	.41	.127	21	1	.79	391	.02	4	1.52	.03	.12	1	1
11500 10175E	1	76	25	140	.4	7	21	1944	8.05	11	5	ND	3	13	1	2	2	97	.33	.148	29	1	.88	474	.01	5	1.94	.03	.12	1	2
11500 10200E	1	74	18	131	.3	9	25	1737	9.83	6	5	ND	4	18	1	2	2	96	.36	.141	19	3	.61	290	.01	2	1.35	.03	.10	3	73
11500 10225E	1	70	11	145	.1	10	31	2993	11.26	2	5	ND	3	17	1	2	2	105	.48	.141	17	4	.41	182	.01	3	.83	.02	.13	1	12
11500 10250E	2	104	23	104	.4	6	31	3296	13.26	22	5	ND	4	13	1	2	2	121	.30	.178	31	3	.37	532	.01	9	1.08	.02	.14	2	10
11500 10275E	1	41	8	86	.2	5	24	2270	8.66	6	5	ND	4	15	1	2	2	96	.40	.116	20	2	.27	595	.01	2	.76	.02	.14	1	4
11500 10300E	2	111	22	83	.1	4	30	2745	12.29	49	5	ND	3	11	1	2	2	88	.10	.185	17	1	.11	293	.01	2	.71	.01	.14	1	14
11500 10325E	1	76	19	99	.2	7	17	929	9.47	21	5	ND	2	8	1	2	2	92	.13	.137	19	4	.34	248	.01	2	1.05	.02	.10	1	5
11500 10350E	1	76	19	81	.5	6	23	1685	8.28	26	5	ND	4	9	1	2	2	62	.08	.163	20	1	.15	264	.01	2	.67	.01	.17	1	10
11500 10375E	1	13	36	83	.1	2	6	2278	2.59	3	5	ND	3	18	1	2	3	19	.30	.123	19	1	.07	745	.01	7	.67	.02	.25	1	1
11400 9500E	2	21	34	104	.3	7	10	1802	4.89	27	5	ND	3	8	1	5	2	52	.07	.127	16	8	.29	473	.01	2	1.86	.01	.16	2	3
11400 9525E	2	26	28	88	.3	7	11	1882	4.24	21	5	ND	7	8	1	3	2	38	.18	.082	21	8	.40	336	.01	2	1.15	.02	.17	2	1
11400 9550E	2	19	18	45	.4	3	9	2276	4.64	10	5	ND	5	7	1	2	3	26	.25	.071	18	2	.13	413	.01	2	.65	.01	.21	2	2
11400 9575E	2	22	11	37	.1	2	6	1679	3.48	9	5	ND	7	9	1	3	2	23	.36	.087	16	1	.09	347	.01	2	.51	.02	.23	1	2
11400 9600E	2	16	14	56	.3	2	8	1588	4.19	13	5	ND	7	13	1	2	3	29	.37	.121	24	1	.12	346	.01	2	.63	.02	.23	1	1
11400 9625E	2	28	12	37	.3	2	6	1536	3.44	4	5	ND	10	6	1	2	3	20	.20	.074	22	2	.07	276	.01	2	.49	.01	.21	2	2
STD C/AU-S	20	60	39	132	7.4	72	29	1057	4.04	40	22	8	39	52	19	17	19	60	.48	.095	39	60	.89	180	.09	36	1.88	.09	.16	12	47

SAMPLE#	MO	CU	PB	ZN	AG	NI	CO	MM	FE	AS	U	AU	TH	SR	CD	SB	BI	V	CA	P	LA	CR	K6	BA	TI	B	AL	KA	K	W	AUS
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
11400N 9650E	3	12	0	38	.1	1	5	980	2.49	9	5	ND	9	4	1	2	2	18	.12	.060	14	1	.07	146	.01	2	.50	.01	.18	2	1
11400N 9675E	12	22	18	101	.2	4	13	1633	4.59	47	5	ND	5	7	1	3	3	29	.23	.090	26	4	.11	320	.01	3	.55	.01	.14	1	1
11400N 9700E	6	21	9	63	.2	4	9	1309	3.48	25	5	ND	7	7	1	2	2	23	.20	.074	22	2	.11	292	.01	2	.53	.01	.15	1	2
11400N 9750E	10	213	22	38	1.0	7	13	407	23.03	97	5	ND	5	15	1	3	3	128	.01	.310	19	5	.55	355	.01	4	3.45	.03	.16	4	96
11400N 9800E	3	143	17	69	.4	17	25	1543	9.91	41	5	ND	3	28	1	2	2	57	.10	.130	18	5	.17	329	.01	7	.60	.03	.15	1	29
11400N 9850E	3	50	30	100	.4	9	24	2308	8.08	33	5	ND	5	14	1	2	2	76	.09	.145	30	11	1.10	347	.02	6	2.26	.03	.13	2	16
11400N 9875E	2	41	27	69	.1	5	12	1553	6.13	24	5	ND	2	16	1	2	2	65	.19	.140	18	6	.51	441	.01	4	2.10	.02	.11	1	3
11400N 9900E	3	95	14	134	.1	14	22	2546	8.17	12	5	ND	4	22	1	2	2	107	.41	.113	36	26	.75	794	.01	10	2.11	.03	.14	1	1
11400N 9925E	3	95	15	73	.3	11	18	1580	8.24	35	5	ND	3	18	1	2	3	67	.15	.123	19	9	.41	341	.01	7	1.16	.03	.12	1	16
11400N 9950E	1	26	14	115	.1	6	22	2523	7.23	11	5	ND	4	20	1	2	2	83	.33	.130	27	5	.53	452	.02	4	1.24	.02	.09	1	2
11400N 9975E	2	38	14	123	.1	5	21	2503	7.95	6	5	ND	3	16	1	2	2	85	.32	.134	24	4	.53	453	.01	15	1.41	.03	.10	1	1
11400N 10000E	2	26	21	120	.1	5	15	1245	6.62	11	5	ND	2	11	1	2	2	77	.21	.125	17	5	.49	301	.01	8	1.49	.02	.09	1	3
11400N 10025E	1	16	9	91	.2	2	5	1417	2.86	7	5	ND	1	18	1	2	2	46	.38	.260	5	4	.11	289	.01	3	.83	.02	.12	1	1
STD C/AU-S	19	61	41	129	7.1	69	28	1047	3.85	40	20	8	38	50	19	17	19	58	.46	.093	38	59	.92	181	.08	38	1.77	.08	.13	14	48
11400N 10050E	2	19	10	81	.1	2	10	1206	6.62	8	5	ND	2	4	1	2	2	80	.04	.206	9	6	.15	103	.01	3	1.63	.01	.09	2	1
11400N 10075E	2	20	10	62	.3	2	4	285	3.46	6	5	ND	1	5	1	2	2	73	.05	.130	10	12	.14	145	.01	3	1.43	.01	.09	1	9
11400N 10100E	1	27	9	85	.1	4	8	835	4.39	5	5	ND	1	9	1	2	2	79	.13	.193	9	7	.23	264	.01	8	1.41	.02	.10	1	1
11400N 10125E	3	64	16	113	.1	11	28	1620	14.91	6	5	ND	3	8	1	2	2	103	.14	.227	23	4	.46	155	.01	6	1.12	.02	.07	2	65
11400N 10150E	3	182	8	103	.1	8	45	3235	14.35	11	5	ND	5	12	1	2	2	104	.21	.193	27	1	.47	311	.01	8	1.44	.02	.09	2	29
11400N 10175E	2	88	11	92	.1	7	25	1988	8.97	12	5	ND	3	13	1	2	2	79	.27	.127	22	2	.49	299	.01	3	1.29	.02	.10	1	6
11400N 10200E	3	87	10	122	.2	6	29	2539	11.70	6	5	ND	4	22	1	2	2	98	.33	.142	25	2	.45	243	.01	25	1.07	.03	.09	1	6
11400N 10225E	2	79	8	133	.1	5	23	2284	9.34	16	5	ND	2	26	1	2	2	81	.86	.185	21	3	.30	404	.01	5	.94	.02	.11	1	2
11400N 10250E	1	34	6	107	.1	5	19	1269	8.27	17	5	ND	3	11	1	2	2	79	.25	.131	15	4	.29	260	.01	3	1.01	.02	.10	1	2
11400N 10300E	2	81	7	87	.1	6	26	1902	9.74	24	5	ND	4	16	1	2	2	102	.35	.159	18	5	.20	412	.01	3	.61	.02	.14	1	9
11400N 10325E	2	101	5	84	.1	5	24	1795	11.41	39	5	ND	3	11	1	2	2	101	.16	.138	15	1	.17	228	.01	11	.65	.02	.10	1	41
11400N 10400E	3	19	57	93	.1	3	10	2241	5.63	14	5	ND	3	5	1	2	2	40	.06	.124	16	8	.14	185	.01	6	1.44	.02	.15	1	2
11400N 10425E	1	20	26	86	.1	3	8	1529	2.86	10	5	ND	4	12	1	2	3	22	.19	.094	21	2	.09	438	.01	2	.66	.01	.19	1	1
11400N 10450E	1	12	20	82	.2	1	6	1245	2.07	6	5	ND	3	10	1	2	2	19	.20	.079	20	1	.06	531	.01	2	.58	.01	.21	1	1
11400N 10500E	2	13	33	76	.3	5	8	1100	2.25	8	5	ND	4	15	1	2	2	22	.24	.091	23	6	.22	289	.01	3	1.49	.02	.18	1	1
11300N 10025E	2	63	14	101	.2	5	20	1554	7.64	19	5	ND	3	11	1	2	2	76	.19	.117	18	6	.36	325	.01	3	1.03	.02	.12	1	11
11300N 10050E	1	60	14	104	.1	7	20	2129	7.85	11	5	ND	3	10	1	2	2	88	.15	.135	21	5	.37	270	.01	3	1.38	.02	.09	1	6
11300N 10075E	3	26	16	109	.2	4	9	910	8.24	14	5	ND	2	6	1	2	2	67	.07	.178	19	9	.30	139	.01	4	3.12	.03	.07	1	1
11300N 10100E	2	147	10	99	.1	9	30	2872	10.61	11	5	ND	4	16	1	2	2	84	.22	.216	18	6	.24	961	.01	3	1.17	.02	.10	1	116
11300N 10125E	2	93	13	81	.1	4	15	1159	7.72	24	5	ND	2	4	1	2	2	87	.02	.137	16	6	.28	108	.01	5	1.48	.02	.08	1	8
11300N 10150E	2	67	17	87	.1	5	24	1943	11.10	26	5	ND	3	8	1	2	2	106	.09	.207	22	4	.20	110	.01	4	1.25	.02	.09	2	2
11300N 10175E	1	68	13	91	.1	6	24	1746	10.07	44	5	ND	3	7	1	2	2	89	.10	.169	21	2	.24	178	.01	3	.93	.02	.07	1	1
11300N 10200E	1	409	5	63	.1	9	57	3061	20.22	132	5	ND	5	5	1	2	2	105	.02	.325	23	5	.13	88	.01	4	.74	.01	.08	1	30

SAMPLE#	NO PPH	CU PPH	PB PPH	ZN PPH	AG PPH	NI PPH	CO PPH	MN PPH	FE %	AS PPH	U PPH	AU PPH	TH PPH	SR PPH	CD PPH	SB PPH	BI PPH	V PPH	CA %	P %	LA PPH	CR PPH	MG %	BA PPH	TI %	B PPH	AL %	NA %	K %	M PPH	AUX PPH
11300N 10225E	1	79	16	81	.2	8	28	2100	9.95	41	5	ND	3	13	1	2	2	88	.11	.139	16	5	.22	180	.01	2	.62	.02	.07	1	8
11300N 10250E	1	81	29	143	.4	11	30	2210	12.33	98	5	ND	3	19	1	2	2	113	.24	.16*	25	4	.30	232	.01	3	.85	.02	.10	1	25
11300N 10275E	1	50	11	81	.2	4	13	1100	6.31	58	5	ND	1	18	1	2	2	72	.51	.168	15	1	.17	679	.01	2	.95	.02	.08	2	4
11300N 10300E	1	890	15	69	.2	4	17	1138	7.77	38	5	ND	2	12	1	2	2	67	.14	.134	17	1	.15	393	.01	2	.84	.01	.12	1	815
11300N 10325E	1	84	23	80	.5	7	26	2024	9.26	42	5	ND	3	8	1	2	2	66	.09	.144	14	4	.18	291	.01	2	.62	.01	.11	1	12
11300N 10350E	1	69	44	115	.3	7	27	3844	10.83	43	5	ND	4	10	1	2	2	69	.14	.146	22	2	.20	412	.01	2	.67	.01	.10	1	16
11300N 10375E	1	19	37	80	.3	1	8	1856	3.53	11	5	ND	5	9	1	2	2	22	.26	.094	21	1	.08	671	.01	2	.58	.01	.18	1	1
11300N 10400E	1	12	36	86	.3	1	7	3008	3.68	4	5	ND	4	7	1	2	2	29	.25	.063	25	1	.08	1366	.01	2	.70	.01	.12	1	1
11300N 10425E	1	12	24	71	.1	1	6	1395	2.28	6	5	ND	3	2	1	2	2	19	.02	.072	10	1	.03	178	.01	2	.65	.01	.16	1	1
11300N 10450E	1	24	24	83	.1	1	5	1830	2.14	7	5	ND	1	6	1	2	2	19	.10	.109	7	1	.04	352	.01	2	.51	.01	.17	1	1
11300N 10475E	1	28	23	68	.2	2	7	1197	2.57	8	5	ND	4	13	1	2	2	22	.27	.083	23	1	.12	367	.01	2	.83	.02	.18	1	1
11300N 10500E	2	36	88	50	.6	3	16	1583	2.94	26	5	ND	3	8	1	2	2	22	.13	.160	14	1	.15	267	.01	4	1.21	.01	.19	1	2
11200N 10050E	1	49	22	83	.3	7	23	1431	9.15	19	5	ND	3	8	1	2	2	90	.17	.135	20	5	.23	184	.01	8	.88	.02	.08	1	3
11200N 10075E	4	46	21	89	.2	6	26	2084	10.21	16	5	ND	3	7	1	2	2	102	.10	.156	24	4	.16	171	.01	11	.95	.01	.10	1	1
11200N 10100E	1	35	12	90	.1	4	12	1144	7.61	12	5	ND	4	5	1	2	2	100	.04	.208	15	8	.08	153	.01	2	1.57	.01	.08	1	2
11200N 10125E	1	60	13	56	.4	3	22	1903	7.20	28	5	ND	4	6	1	2	2	48	.10	.178	18	2	.12	186	.01	2	.95	.01	.09	1	2
11200N 10150E	1	121	23	50	.1	4	32	2245	20.66	339	5	ND	5	3	1	2	2	113	.01	.226	19	4	.08	50	.01	6	.81	.01	.06	2	10
11200N 10175E	1	75	23	85	.2	6	22	1918	10.18	69	5	ND	4	5	1	2	2	83	.05	.181	14	3	.26	117	.01	5	.97	.01	.07	1	9
11200N 10200E	1	196	28	57	.3	4	22	1342	15.97	213	5	ND	4	7	1	2	2	72	.06	.224	14	4	.11	251	.01	4	.67	.01	.08	1	305
11200N 10225E	1	29	33	32	.1	1	23	895	16.96	47	5	ND	7	2	1	4	2	39	.01	.492	6	1	.03	44	.01	5	.31	.01	.07	3	5
11200N 10250E	3	115	34	73	.4	5	186	11903	18.72	60	5	ND	7	6	1	2	2	86	.01	.327	15	1	.06	99	.01	2	.55	.01	.07	1	21
11200N 10275E	2	127	24	80	.2	7	30	2127	13.14	51	5	ND	4	5	1	2	2	70	.03	.229	22	1	.14	160	.01	2	.80	.01	.08	2	40
11200N 10300E	4	62	29	133	.4	8	12	2088	7.99	25	5	ND	12	2	1	2	2	31	.03	.119	25	3	.15	91	.07	2	2.57	.07	.08	2	17
11200N 10325E	2	83	26	91	.4	7	19	2021	8.45	47	5	ND	3	4	1	3	2	63	.03	.142	17	6	.27	155	.01	2	1.47	.01	.09	1	52
11200N 10350E	3	40	68	220	.6	6	17	7084	11.71	26	5	ND	5	7	1	4	2	52	.04	.120	23	6	.21	576	.01	2	1.58	.01	.11	1	13
11200N 10375E	1	12	27	81	.4	2	8	1714	2.60	7	5	ND	6	11	1	2	3	20	.22	.072	21	1	.06	780	.01	2	.40	.01	.16	1	1
11200N 10400E	1	21	28	61	.3	3	10	1659	4.05	9	5	ND	6	12	1	2	3	30	.33	.089	20	4	.10	562	.01	2	.46	.02	.17	1	1
11200N 10425E	2	19	39	92	.1	2	13	4369	5.10	11	5	ND	4	3	1	2	4	27	.03	.129	18	1	.07	330	.01	4	.76	.01	.14	1	2
11200N 10450E	1	11	24	95	.3	2	5	1778	2.69	8	5	ND	1	6	1	2	3	22	.09	.155	7	3	.06	279	.01	2	.69	.01	.19	2	1
11200N 10475E	1	10	34	91	.4	2	8	1651	3.01	9	5	ND	3	12	1	2	2	23	.27	.094	22	1	.08	455	.01	2	.63	.01	.18	1	1
STD C/AU-S	18	57	40	129	7.1	68	28	1050	3.93	40	18	8	37	50	18	17	20	57	.47	.089	38	60	.86	179	.08	34	1.82	.08	.13	13	50

H₂O₅

SAMPLE#	MO	CU	PB	ZN	AG	NI	CO	MM	FE	AS	U	AU	TH	SR	CD	SB	BI	V	CA	P	LA	CR	MG	BA	TI	R	AL	NA	K	W	AUS
	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	%	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	%	%	PPH	PPH	%	PPH	%	PPH	%	%	%	PPH	PPH
85213	3	1211	44	48	.9	16	40	1215	26.68	220	5	ND	3	52	1	10	9	52	2.06	.028	7	5	1.69	11	.01	20	.58	.05	.08	6	590
85214	1	612	41	181	3.1	5	17	199	32.76	267	5	ND	3	10	6	5	36	17	.31	.001	2	1	.29	5	.01	5	.40	.03	.02	1	2370
85215	5	45907	27	161	1.6	10	23	944	14.52	78	5	ND	2	53	4	2	14	29	2.06	.017	3	6	1.28	17	.01	19	1.41	.04	.08	1	48
85216	6	48614	39	156	1.6	52	36	633	29.40	173	5	ND	4	22	4	5	12	101	.61	.091	15	64	1.68	4	.01	8	2.20	.04	.05	1	59
85217	2	30680	43	118	1.8	32	29	287	31.36	246	5	ND	2	7	3	10	14	53	.13	.045	3	29	.81	5	.01	7	1.87	.02	.04	5	350
85526	6	3978	410	85	23.2	2	33	1811	8.96	1248	5	ND	1	252	1	68	10	8	10.23	.019	2	1	2.68	23	.01	7	.17	.01	.09	1	13
85527	6	4511	151	816	22.5	1	30	1595	4.96	245	5	ND	2	73	7	33	3	9	5.96	.007	9	1	2.19	9	.01	2	.06	.01	.02	3	3
85534	25	10795	2281	7615	40.9	2	222	1160	28.31	841	5	ND	2	31	35	41	21	54	1.40	.035	4	1	1.91	6	.01	4	1.89	.03	.05	3	34
85535	20	710	332	174	11.7	2	36	1266	20.50	635	5	ND	3	32	1	33	16	16	2.33	.014	8	1	1.35	6	.01	4	.51	.03	.04	2	31

Mid.
Zone

ASSAY REQUIRED FOR Cu > 10,000 ppm.

← Massive
Sulphide
type
geochem

Central Cord District
 20 Rx
 5 Pans
 7 Sites
 10% Talus

Rat Silts + Talus: TCP + Au
 Rx: (Assay Cu, Au) (Assay Pb, Zn, Ag, Au)
 PAN: B.M. Au

Sheet 1 of 4
 Lab Code 8708-090

RECORD OF SAMPLE TRANSMITTAL

NORANDA EXPLORATION COMPANY, LIMITED
 P.O. BOX 2380
 1050 DAVIE STREET
 VANCOUVER, B.C.
 V6B 3T5

P 24/08

Date Shipped: _____
 Date Received: Aug 17/87
 Shipped Via: Bus
 No. of Cartons: _____
 No. of Samples: 46
 Geologist: R. Baerg
 Date: Aug 9/87

MATERIAL:

- SOIL
- SILT
- ROCK
- Pan

N.B. Partial results (Silt & Pan) mailed 27/08 to PG.
 Project Todd Cr. No. 281

SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT	SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT
FROM/LINE	TO/STATION				FROM/LINE	TO/STATION			
85213	Rock				11200N	10000E		N/S	
14	"					25		N/S	
15	"					50			
16	"					75			
17	"					100			
18	"	Cu-Au Assay		*		25			
19	"	Pb-Zn-Ag-Au Assay		*		50			
20	Pan					75			
21	Silt					200			
22	"					25			
23	Rock	Cu-Au Assay		*		50			
24	Pan					75			
85225	Pan					300			
85526	Rock					25			
27	"					50			
28	Silt					75			
29	Rock	Pb-Zn-Ag-Au Assay		*		400			
30	Silt					25			
31	"					50			
32	"					75			
33	Rock	Cu-Au Assay		*	85537	Rock	Cu-Au Assay	*	
34	"				38	"	"	"	
35	"				39	"	"	"	
36	"	Cu-Au Assay		*	40	"	"	"	

Talus
 ABC 281
 PAN 8708-090

ANALYTICAL INSTRUCTIONS

- ALL SAMPLES (Cu, Pb, Zn, Mo, Ag)
- (Cu, Pb, Zn, Mo, Ag) + _____
- (Cu, Pb, Zn, Mo, Ag) + AS NOTED

RESULTS TO: Prince George

SPECIAL INSTRUCTIONS OR REMARKS:

Au geochem + ICP for all samples
 Run Talus as Rock geochem. Run Pan samples for Au, Cu, Pb, Zn, Ag, Fe, As, Co

Central Coal District

Sheet 2 of 4

RECORD OF SAMPLE TRANSMITTAL

NORANDA EXPLORATION COMPANY, LIMITED
 P.O. BOX 2380
 1050 DAVIE STREET
 VANCOUVER, B.C.
 V6B 3T5

MATERIAL:

- SOIL
- SILT
- ROCK (Talus)

Date Shipped: _____
 Date Received: _____
 Shipped Via: Bus
 No. of Cartons: _____
 No. of Samples: 46
 Geologist: R. Baerg
 Date: Aug 9/87

Project Todd Cr No. 281

SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT			SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT		
FROM/LINE	TO/STATION						FROM/LINE	TO/STATION					
<u>11300N</u>	<u>10000E</u>	<u>N/S</u>				<u>11400N</u>	<u>9500E</u>						
	<u>25</u>		Talus				<u>25</u>				Talus		
	<u>50</u>						<u>50</u>						
	<u>75</u>						<u>75</u>						
	<u>100</u>						<u>600</u>						
	<u>25</u>						<u>25</u>						
	<u>50</u>						<u>50</u>						
	<u>75</u>						<u>75</u>						
	<u>200</u>						<u>700</u>						
	<u>25</u>						<u>25</u>						
	<u>50</u>						<u>50</u>						
	<u>75</u>						<u>75</u>						
	<u>300</u>						<u>800</u>						
	<u>25</u>						<u>25</u>						
	<u>50</u>						<u>50</u>						
	<u>75</u>						<u>75</u>						
	<u>400</u>						<u>900</u>						
	<u>25</u>						<u>25</u>						
	<u>50</u>						<u>50</u>						
	<u>75</u>					<u>75</u>							
	<u>500</u>					<u>10000E</u>							
<u>855#1</u>	<u>Rock</u>	<u>Cu-Au Assay</u>				<u>25</u>							
<u>42</u>	<u>Silt</u>					<u>50</u>							
						<u>75</u>							

ANALYTICAL INSTRUCTIONS

- ALL SAMPLES: (Cu, Pb, Zn, Mo, Ag)
- (Cu, Pb, Zn, Mo, Ag) + ___ + ___
- (Cu, Pb, Zn, Mo, Ag) + AS NOTED

SPECIAL INSTRUCTIONS OR REMARKS:

Au geochem + ICP
Run Talus as Rock geochem
Cu-Au Assay as noted.

RESULTS TO: Prince George

RECORD OF SAMPLE TRANSMITTAL

NORANDA EXPLORATION COMPANY, LIMITED
 P.O. BOX 2380
 1050 DAVIE STREET
 VANCOUVER, B.C.
 V6B 3T5

MATERIAL:

- SOIL
- SILT
- ROCK (Talus)

Date Shipped: _____
 Date Received: _____
 Shipped Via: Bus
 No. of Cartons: _____
 No. of Samples: 43
 Geologist: R. Baerg
 Date: Aug 9/87

Project Todd Cr No. 281

SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT		SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT	
FROM/LINE	TO/STATION			FROM/LINE	TO/STATION	FROM/LINE	TO/STATION				
<u>11400N</u>	<u>10100E</u>					<u>11500N</u>	<u>9700E</u>	<u>N/S</u>			
	<u>25</u>		} <u>Talus</u>				<u>25</u>	<u>N/S</u>			
	<u>50</u>						<u>50</u>				
	<u>75</u>						<u>75</u>				
	<u>200</u>						<u>800</u>	<u>N/S</u>			
	<u>25</u>						<u>25</u>				
	<u>50</u>						<u>50</u>				
	<u>75</u>						<u>75</u>				
	<u>300</u>						<u>900</u>				
	<u>25</u>						<u>25</u>				
	<u>50</u>						<u>50</u>				
	<u>75</u>						<u>75</u>				
	<u>400</u>						<u>10000</u>				
	<u>25</u>						<u>25</u>	<u>N/S</u>			
	<u>50</u>						<u>50</u>				
	<u>75</u>						<u>75</u>				
<u>11400N</u>	<u>10500E</u>						<u>100</u>				
							<u>25</u>				
<u>11500N</u>	<u>9550E</u>						<u>50</u>				
	<u>75</u>						<u>75</u>				
	<u>600</u>						<u>200</u>				
	<u>25</u>						<u>25</u>				
	<u>50</u>						<u>50</u>				
	<u>75</u>						<u>75</u>				

ANALYTICAL INSTRUCTIONS

- ALL SAMPLES: (Cu, Pb, Zn, Mo, Ag)
- (Cu, Pb, Zn, Mo, Ag) + ___ + ___
- (Cu, Pb, Zn, Mo, Ag) + AS NOTED

SPECIAL INSTRUCTIONS OR REMARKS:
Au geochem + ICP
Run Talus a Rock geochem

RESULTS TO: PRINCE GEORGE

RECORD OF SAMPLE TRANSMITTAL

NORANDA EXPLORATION COMPANY, LIMITED
 P.O. BOX 2380
 1050 DAVIE STREET
 VANCOUVER, B.C.
 V6B 3T5

Date Shipped: _____
 Date Received: _____
 Shipped Via: Bus
 No. of Cartons: _____
 No. of Samples: 4
 Geologist: R. Baerg
 Date: Aug 9/87

MATERIAL:
 SOIL
 SILT
 ROCK (Talus)

Project Todd Cr No. 281

SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT			SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT			
FROM/LINE	TO/STATION						FROM/LINE	TO/STATION						
<u>11500N</u>	<u>10300E</u>		} <u>Talus</u>											
	<u>25</u>													
	<u>50</u>													
<u>11500N</u>	<u>10375</u>													

ANALYTICAL INSTRUCTIONS

ALL SAMPLES: (Cu, Pb, Zn, Mo, Ag)
 (Cu, Pb, Zn, Mo, Ag) + ___ + ___
 (Cu, Pb, Zn, Mo, Ag) + AS NOTED

SPECIAL INSTRUCTIONS OR REMARKS:
An geochem + ICP
Run Talus as Rock geochem

RESULTS TO: Prince George

PROPERTY Todd Cr. (Mid Zone)

N.T.S. 104 A/4

DATE Aug 9/87

ROCK SAMPLE REPORT

PROJECT: 281

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G	A	G	A	G	A	G	A	G	A	SAMPLED BY
5213	qtz-chl-hem alt volc, with abund subhed-cubed py.	10-15	grab	float											RB
5214	Massive banded py with minor mal-cpx	70-80	grab	float											RB
5215	f.g. chl volc with local dissem to coarse py-cpx, abund narrow qtz-cc veining.	5	grab	float											RB
5216	shear zone, 10-20cm wide, in f.g. chl volc with dissem and mass py+mal	10-15	grab	comp											RB
5217	as for 85216	10-15	grab	comp											RB
5218	as for 85216, 3-5% cpx, 10-40cm wide	15-20	grab	comp											RB
5219	silic grey tuff, str. fract. with py-cc-qtz-gn-sph infilling	5-10	grab	comp											RB

Au geochem + ICB

Cu-Au Assay + ICP

Pb-Zn-Ag-Au Assay + ICP

PROPERTY Todd Cr (Mid Zone)

N.T.S. 104A/4

DATE Aug 11/87

ROCK SAMPLE REPORT

PROJECT 281

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	ANALYSIS								SAMPLED BY		
					G	A	G	A	G	A	G	A		G	A
5223	py-cpy-mal vein to 15cm wide, locally to 10% cpy	15-20	grab	comp		Cu-Au Assay									RB
5526	qtz-cc-slst bx with 1-2% py 1-2% cpy	2-4	grab	float		Au geochem									RB
5527	lt grey silic tuff bx with qtz-py-cpy infilling, ~.5-1% cpy	5	grab	float											RB
5529	as for 85219, ~10-12% coarse sph, ~2% coarse gn	15	grab	float			Pb-Zn-Ag-Au Assay								RB
5533	qtz-py-cpy cobbles, 1-2% cpy 3-5% py.	5-7	grab	float		Cu-Au Assay									RB
5534	f.g. volc with 30-40% mass. f.g. py, tr. ~.5% cpy, abund qtz-cc v.	30-40	grab	float		Au geochem									RB
5535	argillite bx 30-40% mass. f.g. py, local qtz-cc v., tr. cpy.	30-40	grab	float											

PROPERTY Todd Cr (Mid Zone)

N.T.S. 104A/4

DATE Aug 11/87

ROCK SAMPLE REPORT

PROJECT 281

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	ANALYSIS								SAMPLED BY		
					G	A	G	A	G	A	G	A		G	A
5536	g-py-cpy vein cobble, ~ 2-3% cpy, 3-5% py	5-8	grab	float											RB
5537	GR Zone, gtz-py-cc bx vein with dissem and coarse cpy in $\frac{1}{2}$ vein frags and matrix ~ 1-2% cpy	5	chip	.7m											RB
5538	as for 85537	5-7	chip	2.5m											RB
5539	as for 85537	5-7	chip	2.5m											RB
5540	as for 85537	3-5	chip	1.8m											RB
85541	as for 85537	3-5	chip	3.4m											RB

Cut Au Assay + ICP

PROPERTY Todd Creek

N.T.S. 104A/5

DATE Aug 5/87

PROJECT: 281

ROCK SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	ANALYSIS								SAMPLED BY			
					G	A	G	A	G	A	G	A		G	A	
5201	as for 85200, ~115m south of 85199	5-7	chip	1m											Cu-Au Assay + ICP	RB
5202	Silic volc (tuff?) with local mal. staining and hairline gtz - py-cpx veins	tr	grab	comp											Augeochem + ICP	RB
5203	1-20cm gtz v. with local mal-cpx	tr	grab	comp												RB
5204	calcite-gtz bx vein with cockscomb gtz and banded gtz-cc, tr cpx-mal.	tr	grab	comp												RB
5205	Silt															RB
5206	gtz-hem-py-cpx bx vein, center of vein is bx with abund cc, vein walls are banded gtz - hem-py-cpx. 5-10% spec hem, tr-2% cpx, tr-2% py "B Zone"	1-5	chip	1m											Cu-Au Assay + ICP	RB

NORANDA VANCOUVER LABORATORY

11 12

PROPERTY/LOCATION: TODD CREEK

CODE : 8709-001

Object No. : 281
 Serial : 11 PANS
 Remarks :

Sheet: 1 of 1
 Geol.: R.B.

Date rec'd: AUG. 25
 Date compl: SEPT. 01

Values in PPM, except where noted.

T.T. No.	SAMPLE No.	SAMPLE wt(g)	PPB					
			Au	Cu	Zn	Pb	Ag	
2	PAN	80956	28.8	10	22	140	56	0.2
3		80960	40.7	10	20	80	8	0.2
4		80961	72.0	10	22	112	420	0.2
5		80963	52.6	10	24	92	20	0.2
6		80967	68.5	10	22	360	80	0.2
7		80969	47.6	10	12	140	80	0.2
8		80971	51.2	310	56	290	52	0.6
9		80988	61.4	10	22	94	10	0.2
10		80991	47.6	30	34	96	16	0.2
11		80996	55.2	10	14	110	12	0.2
12	PAN	80997	58.2	150	22	160	20	0.4

Virginia Cr

R.B. Pan-con: entire sample used for Au determination.
 *Cu, Zn, Pb, Ag values obtained from Aqua Regia sol'n.

RECEIVED
 SEP - 8 1987
 REGISTERED

cc: Rob
 file: TODD CRK
 281

Central Cord District

AN: (Cu, Au, Ag, Pb, Zn, Mo, As)
Silt - to ICP
PANS: BM, AU

Sheet 1 of 1

Lab Code 8709-001

RECORD OF SAMPLE TRANSMITTAL

PANS+1

NORANDA EXPLORATION COMPANY, LIMITED
P.O. BOX 2380
1050 DAVIE STREET
VANCOUVER, B.C.
V6B 3T5

Date Shipped: ??!?
Date Received: Aug. 25/87
Shipped Via: Bus
No. of Cartons: _____
No. of Samples: 24
Geologist: R. Buey
Date: Aug 18/87

MATERIAL:
 SOIL
 SILT
 ROCK
 Pan

Project Todd Cr No. 281
(N. Zone)

SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT	SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT
FROM/LINE	TO/STATION				FROM/LINE	TO/STATION			
87526	Rock					80770	Silt		
87527	Rock								
28	"	} Cu-Au Assay							
29	"								
30	"								
31	"								
32	"								
33	"								
34	"								
80956	Pan								
57	Silt								
58	Silt								
59	Silt								
60	Pan								
61	Pan								
62	Silt								
63	Pan								
64	Silt								
65	Pan	listed but not							
66	Silt	found <u>pit</u>							
67	Pan								
68	Silt								
69	Pan								

281
8709-001
CBC
PANS

CBC 231
PANS 270 31

ANALYTICAL INSTRUCTIONS

ALL SAMPLES: (Cu, Pb, Zn, Mo, Ag) (Cu, Pb, Zn, Mo, Ag) + ___ + ___ (Cu, Pb, Zn, Mo, Ag) + AS NOTED

RESULTS TO: Prince George

SPECIAL INSTRUCTIONS OR REMARKS:

Rocks - Cu + Au Assay
 Silt - Au geochem + ICP
 Pan - Au, Ag, Cu, Pb, Zn, As, Co, Fe

NORANDA VANCOUVER LABORATORY

PROPERTY/LOCATION: TODD CREEK

CODE : 8708-122

Project No. : 281
 Material : 10 PANS
 Remarks :

Sheet: 1 of 1
 Geol. : R. B.

Date rec'd: AUG. 21
 Date compl: AUG. 28

Values in PPM, except where noted.

T.T. No.	SAMPLE No.	Sample wt. (g)	PPB Au	Cu	Zn	Pb	Ag
52	85544	56.4	40	280	120	8	0.6
53	85546	79.2	300	260	100	300	0.4
54	85548	26.0	10	120	50	14	0.4
55	85550	44.6	10	12	180	130	0.2
56	86753	32.7	10	30	190	110	0.2
57	86755	17.3	50	78	92	40	0.2
58	86758	32.7	30	38	160	20	0.4
59	86762	44.5	10	30	98	10	0.4
60	86765	17.9	10	8	62	4	0.2
61	86767	41.0	10	28	150	18	0.2

Todd Cr Valley

N.B. Pan-con: entire sample used for Au determination.
 *Cu, Zn, Pb, Ag values obtained from Aqua Regia sol'n.

RECEIVED
 SEP - 8 1987
 REGISTERED

cc: Rob
 file: TODD - 281

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 LA CR HG BA TI B W AND LIMITED FOR NA AND X. AU DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: P1-SILT P2-ROCK AU8 ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: AUG 25 1987

DATE REPORT MAILED: *Sept 1 1987*

ASSAYER: *D. J. [Signature]* DEAN TOYE, CERTIFIED B.C. ASSAYER

NORANDA EXPLORATION (VAN) PROJECT-8708-122 281 File # 87-3585 Page 1

SAMPLE#	MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS	U	AU	TH	SR	CD	SB	BI	V	CA	P	LA	CR	HG	BA	TI	B	AL	NA	K	W	AU8
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM	PPM
85543 P	2	53	47	141	.3	4	13	1573	4.25	11	5	ND	3	33	1	2	2	42	.45	.096	16	4	.57	445	.01	8	1.18	.02	.17	1	22
85545 P	3	66	18	94	.1	6	16	1050	5.74	18	5	ND	4	30	1	2	3	56	.44	.111	12	4	.79	231	.01	7	1.31	.02	.14	1	5
85547 P	2	69	13	84	.1	5	16	971	5.81	15	5	ND	4	26	1	2	2	60	.47	.113	11	4	.85	210	.01	4	1.43	.02	.16	1	3
85549 P	3	43	14	42	.1	2	11	444	5.02	13	5	ND	2	28	1	2	2	54	.26	.058	6	7	.43	249	.04	4	.79	.01	.09	1	1
86751 P	5	23	38	213	.2	12	11	1526	4.38	37	5	ND	5	28	1	3	2	40	.32	.074	18	8	.53	246	.01	7	1.41	.02	.20	1	1
86752 P	5	20	23	168	.2	12	9	2880	3.54	40	5	ND	2	40	2	3	2	32	.68	.076	17	12	.37	305	.01	5	1.08	.01	.13	1	1
86754 P	5	24	22	160	.3	13	10	1412	4.57	37	5	ND	4	29	1	3	2	43	.34	.084	19	14	.57	298	.02	7	1.30	.02	.17	1	1
86756 P	3	37	26	153	.2	19	15	1481	5.00	61	5	ND	3	24	1	5	3	41	.33	.078	14	15	.54	361	.01	5	1.26	.01	.13	1	4
86757 P	5	37	41	142	.4	14	17	2076	5.87	72	5	ND	3	24	1	2	2	60	.35	.072	18	27	.99	272	.01	6	1.93	.02	.12	1	1
86759 P	2	30	26	138	.3	12	14	1450	4.43	41	5	ND	3	27	1	3	2	49	.37	.090	16	9	.59	348	.02	5	1.26	.02	.16	1	3
86763 P	2	33	28	121	.2	12	14	1334	4.32	27	5	ND	4	34	1	4	2	44	.44	.090	14	11	.63	346	.01	6	1.37	.02	.15	1	4
86764 P	2	17	19	90	.1	7	10	1378	3.30	15	5	ND	3	46	1	4	2	28	.83	.110	17	5	.39	455	.01	6	1.12	.02	.16	1	1
86768 P	2	35	29	185	.1	18	15	1284	4.37	22	5	ND	4	28	1	2	2	57	.48	.092	13	14	.79	339	.05	13	1.42	.02	.13	1	1
STD C	19	59	41	131	7.1	70	28	1040	4.04	37	17	7	36	50	19	18	22	58	.50	.091	36	58	.86	179	.08	33	1.90	.08	.13	12	-

*1000
 1000
 1000*

SAMPLE#	NO	CU	PB	ZN	AG	NI	CO	MN	FE	AS	U	AU	TH	SR	CD	SB	BI	V	CA	P	LA	CR	MG	BA	TI	W	AL	NA	K	M	AU8
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	I	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	Z	Z	PPM	PPM	Z	PPM	Z	PPM	Z	Z	Z	PPM	PPM
80976	5	13	107	93	1.7	7	6	23	14.09	329	5	ND	5	4	1	2	11	3	.02	.003	9	8	.03	4	.01	11	.10	.02	.14	1	41
80977	5	32	16	9	.3	3	7	18	6.19	232	5	ND	4	5	1	2	3	3	.05	.005	11	1	.02	13	.01	2	.13	.03	.14	1	25
80978	5	14	295	267	1.1	3	7	73	8.99	378	5	ND	4	10	1	2	8	4	.13	.006	2	3	.02	8	.01	4	.14	.02	.16	1	119
80979	2	3	4	5	.5	4	5	20	4.51	135	5	ND	3	6	1	2	2	3	.04	.008	3	5	.02	16	.01	4	.15	.03	.15	1	13
80980	7	52	233	52	1.5	5	19	118	14.30	975	5	ND	5	22	1	2	8	4	.51	.025	5	1	.04	4	.01	4	.16	.02	.18	1	71
80981	3	18	19	6	.3	3	6	18	4.99	236	5	ND	5	4	1	2	5	2	.01	.005	9	1	.01	11	.01	5	.13	.02	.14	1	7
80982	95	15	28	.1	1	2	620	26.41	.29	5	ND	2	8	1	39	2	1	1.11	.002	2	1	.05	72	.01	11	.01	.01	.03	7	1	
80983	12	234	62	104	1.3	6	30	1581	14.57	529	5	ND	3	114	1	2	3	36	2.48	.057	6	1	2.40	11	.01	11	1.19	.03	.22	3	111
80984	2	3677	13	207	1.4	2	11	2292	7.11	203	5	ND	1	585	2	210	2	14	14.56	.026	5	1	2.78	57	.01	6	.15	.01	.13	3	5
80985	2	7	15	10	.2	3	5	53	4.85	286	5	ND	5	8	1	2	3	3	.10	.016	11	2	.04	11	.01	3	.23	.02	.20	1	10
80986	30	234	25	16	.8	2	13	44	14.45	584	5	ND	4	7	1	2	4	3	.10	.004	7	1	.04	5	.01	40	.13	.03	.15	1	126
86760	250	377	90	101	7.3	11	52	1426	9.58	659	5	ND	1	128	1	5	2	17	3.81	.005	2	1	.10	7	.01	2	.09	.01	.08	1	1
86761	25	231	7	20	.2	1	9	1539	5.58	32	5	ND	3	71	1	2	2	19	3.98	.015	12	1	.94	48	.01	10	.17	.02	.16	70	20
86764	13	2679	77	62	1.2	1	7	1354	5.05	72	5	ND	5	37	1	16	2	8	.66	.021	14	1	.32	146	.01	19	.23	.02	.20	1	63
86769	3	89	52	107	.5	2	5	299	15.54	811	5	ND	5	24	1	2	7	4	.91	.015	5	1	.12	5	.01	3	.14	.02	.16	1	108
86770	3	49	114	37	.4	4	9	72	19.21	455	5	ND	2	4	1	2	19	2	.06	.003	2	1	.06	3	.01	4	.06	.01	.09	1	530
86771	1	52	27	20	.7	3	8	62	14.18	770	5	ND	3	5	1	3	10	3	.08	.004	2	1	.05	3	.01	7	.14	.01	.15	1	270
86772	4	14	16	12	2.2	2	7	18	10.20	177	5	ND	4	3	1	2	3	3	.04	.009	3	1	.02	6	.01	11	.15	.01	.16	1	121
86773	6	13	13	9	1.4	2	7	26	8.75	100	5	ND	5	4	1	3	2	4	.06	.023	6	1	.02	7	.01	9	.19	.01	.18	1	37
86774	5	9	20	16	1.5	1	6	25	14.04	267	5	ND	6	5	1	2	3	4	.06	.024	2	1	.04	4	.01	10	.18	.01	.18	2	47
86775	5	9	35	25	.3	2	8	61	14.59	328	5	ND	3	4	1	2	6	3	.02	.008	2	1	.02	2	.01	9	.13	.01	.13	1	40
STD C/NI-R	18	58	41	131	7.0	68	27	1028	3.96	41	19	7	36	48	18	17	21	56	.48	.089	36	60	.87	172	.08	37	1.82	.08	.13	13	490

Handwritten notes: "KND" and "Toddler Valley" with arrows pointing to specific rows in the table.

GEOCHEMICAL/ASSAY CERTIFICATE

.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 LA CR NG BA TE B W AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: Rock Chips AU ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: AUG 25 1987

DATE REPORT MAILED:

Sept 1/87

ASSAYER: *D. Toye* DEAN TOYE, CERTIFIED B.C. ASSAYER

NORANDA EXPLORATION (VAN) PROJECT-8708-122 281 File # 87-3585A

SAMPLE#	NO	CU	PB	ZN	AG	NI	CO	MN	FE	AS	U	AU	TH	SR	CD	SB	BI	V	CA	P	LA	CR	NG	BA	TI	B	AL	NA	K	W	CU	AU
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM	%	PPM
80987	1	439	8	33	.1	1	5	1206	4.19	17	5	ND	4	24	1	2	2	10	.90	.023	5	2	.47	102	.01	2	.57	.02	.21	7	.04	.012

S. Toye

RECORD OF SAMPLE TRANSMITTAL

NORANDA EXPLORATION COMPANY, LIMITED
P.O. BOX 2380
1050 DAVIE STREET
VANCOUVER, B.C.
V6B 3T5

MATERIAL:
 SOIL
 SILT
 ROCK
 Pan

Date Shipped: _____
Date Received: Aug. 21/87
Shipped-Via: Bus
No. of Cartons: _____
No. of Samples: 44
Geologist: R. Baerg
Date: Aug 16/87

Project Todd Cr No. 281

SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT			SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT		
FROM/LINE	TO/STATION						FROM/LINE	TO/STATION					
85543	Silt					86767	Pan						
44	Pan					68	Silt						
45	Silt					69	Rock						
46	Pan					70	"						
47	Silt					71	"						
48	Pan					72	"						
49	Silt					73	"						
85550	Pan					74	"						
751	Silt					86775	"						
52	Silt					80976	"						
53	Pan					77	"						
54	Silt					78	"						
55	Pan					79	"						
56	Silt					80	"						
57	Silt					81	"						
58	Pan					82	"						
59	Silt					83	"						
60	Rock					84	"						
61	"					85	"						
62	Pan					80986	"						
63	Silt					80987							
64	Rock												
65	Pan												
66	Silt												

CBC
SILT

281
8708-122

CBC 281
PAN 8708-122

ANALYTICAL INSTRUCTIONS
RESULTS TO: Prince George

SPECIAL INSTRUCTIONS OR REMARKS:
Au geochem + ICP for Rx and Silt
Au, Ag, Pb, Zn, Cu, As, Co, Fe for Pan samples

N.T.S. 104 A/4
 DATE Aug 16/87

PROPERTY Todd Creek (S. Zone) (Knob Zone)

PROJECT 201

ROCK SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G	A	G	A	G	A	G	A	G	A	SAMPL BY
86760	silic volc bx with jasper-px.	5	grab	float											RB
86761	calcite-gtz-hem-px-cpx bx cobble, uspo hem, 1-2% opx, tr cpx	1-2	grab	float											RB
86764	gtz-cc altered volc with 1-3 mm gtz stauk vein, locally 1-2% cpx	1-2	grab	float											RB
86769	gtz-ser-px alt. volc with 1-10 cm wide gtz-px seams	10	grab	comp											RB
86770	as for 86769	10	grab	comp											RB
86771	as for 86769	5-7	grab	comp											RB
86772	as for 86769	10	grab	comp											RB
86773	as for 86769	5-7	grab	comp											RB
86774	as for 86769	5-7	grab	comp											RB

PROPERTY Todd Creek (Knob Zone)

N.T.S. 104A/4

DATE Aug 16

PROJECT 281

ROCK SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	SAMP BY																
					G	A	G	A	G	A	G	A	G	A	G	A					
809775	as for 86769	10	grab	comp																	RB
809776	as for 86769	5-8	grab	comp																	RB
809777	as for 86769	8-10	grab	comp																	RB
809778	as for 86769	8-10	grab	comp																	RB
809779	as for 86769	8-10	grab	comp																	RB
80980	as for 86769	8-10	grab	comp																	RB
80981	as for 86769	8-10	grab	comp																	RB
80982	banded jasper-hematite boulder, tr py, 10-1520 cm.	tr	grab	float																	RB
80983	several 1-10cm gtz-bx-py veins tr mal	5-7	grab	comp																	RB
80984	10-50cm wide cc-bx veins with local cpy +/- chalcocite	tr	grab	comp																	RB

Au geochem
F
I CP

PROPERTY Todd Creek (Knob Zone)

N.T.S. 104A/4
DATE Aug 16/87

ROCK SAMPLE REPORT

PROJECT 281

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G <input type="checkbox"/> A <input type="checkbox"/>										SAMP B						
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>					
80985	as for 86769	10-12	grab comp																		RB
80986	as for 86769	10	grab comp																		RB

N.T.S. 104A/4
DATE Aug 17/87

PROJECT 281

PROPERTY Todd Creek (South)

ROCK SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	ANALYSIS								SAMPL BY										
					G	A	G	A	G	A	G	A		G	A								
80987	Quartz-6cm bx with tr spt, tr tr tr py. (Trench 20)		chip	6m																			RB

G = GEOCHEM A = ASSAY

Total G - N. Zone (RB)

8708-080

ACME ANALYTICAL LABORATORIES LTD.
32 E. HASTINGS, VANCOUVER B.C.
PH: (604) 253-3158 COMPUTER LINE: 251-1011

DATE RECEIVED AUGUST 17 1987

DATE REPORTS MAILED Sept 9/87

GEOCHEMICAL ASSAY CERTIFICATE

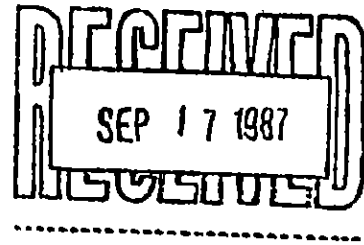
SAMPLE TYPE : ROCK

Au# - 10 GM, IGNITED, HOT AQUA REGIA LEACHED, MIBK EXTRACTION, AA ANALYSIS.

ASSAYER [Signature] DEAN TOYE . CERTIFIED B.C. ASSAYER

NORANDA EXPLORATION PROJECT 8708-080 281 FILE# 87-3365 PAGE# 3

SAMPLE	Au* ppb
85202	270
85203	450
85204	210



Note:
 Corrected readings
 of Rx as requested
 (Acme did some in the
 previous lab)

cc: Rob
 file: Todd.

ACME ANALYTICAL LABORATORIES LTD.

DATE RECEIVED AUGUST 17 1987

52 E. HASTINGS, VANCOUVER B.C.

PH: (604) 253-3158 COMPUTER LINE: 251-1011

DATE REPORTS MAILED

Sept 09/87

ASSAY CERTIFICATE

SAMPLE TYPE : ROCK

Au by F.A. 1/2 A.T.

ASSAYER *[Signature]* DEAN TOYE , CERTIFIED B.C. ASSAYER

NORANDA EXPLORATION PROJECT 8708-080 281 FILE# 87-3365A PAGE# 1

SAMPLE	Cu %	Au oz/t	
85195	.22	.244	} <i>N. Mid Zone</i>
85196	1.23	.007	
85197	1.91	.005	
85198	.35	.278	
85199	2.10	.200	
85200	2.85	.098	} <i>A Zone</i>
85201	1.45	.048	
85206	.55	.027	
85207	.21	.086	} <i>B Zone</i>
85208	1.67	.210	
85209	.23	.017	

8709-061

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : NORANDA EXPLORATION CO. LTD.
1050 DAVIE STREET
VANCOUVER B.C. *S. Zone*
PROJECT: 281 8709-061 *Todd Cr (RB)*
TYPE OF ANALYSIS: ASSAY

CERTIFICATE#: 87595
INVOICE#: 70086
DATE ENTERED: 87-09-21
FILE NAME: NOR87595
PAGE # : 1

PRE FIX	SAMPLE NAME	width	oz/t Au	oz/t Ag	% Cu
A	9251	m	0.010	0.02	0.04
A	9252	m	0.006	0.02	0.01
A	<i>Tr 21</i> 9253	m	0.018	0.02	0.03
A	9254	m	0.001	0.02	0.01
A	9255	m	0.001	0.02	0.01
A	9256	m	0.001	0.02	0.01
A	9257	m	0.001	0.02	0.01
A	81000		0.004	0.02	0.07
A	87535		0.001	0.02	1.34
A	87536		0.001	0.46	1.34
A	87537		0.001	0.02	0.02

RECEIVED
SEP 23 1987
RESULTS

cc: Rob
file Todd.

CERTIFIED BY :

J. Rossbach

no. 12 21

Central District

Assay: Cu, Ag, Au to PR

Sheet 1 of 1

Lab Code 8709-061

RECORD OF SAMPLE TRANSMITTAL

NORANDA EXPLORATION COMPANY, LIMITED
P.O. BOX 2380
1050 DAVIE STREET
VANCOUVER, B.C.
V6B 3T5

MATERIAL:

SOIL

SILT

ROCK

Date Shipped: Sept 6

Date Received: Sept. 11/87

Shipped Via: Bus

No. of Cartons: 2 sacks

No. of Samples: 11

Geologist: R. Baerg

Date: Sept 6/87

Project Todd Cr No. 281
S. Zone

SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT			SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT		
FROM/LINE	TO/STATION						FROM/LINE	TO/STATION					
81000													
87535													
36													
37													
9258													
52													
53													
54													
55													
56													
9257													

Rush

To PR Calc as tungsten line is faster than B&C.

ANALYTICAL INSTRUCTIONS

ALL SAMPLES: (Cu, Pb, Zn, Mo, Ag)

(Cu, Pb, Zn, Mo, Ag) + ___ + ___

(Cu, Pb, Zn, Mo, Ag) + AS NOTED

SPECIAL INSTRUCTIONS OR REMARKS:

Au, Ag, Cu Assay

RESULTS TO: Prince George

NORANDA EXPLORATION COMPANY, LIMITED

PROPERTY Todd Creek #281
 South Zone **ROCK SAMPLE REPORT**

N.T.S. 104 A/4
 DATE Sept 2/87
 PROJECT 281

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G	A	G	A	G	A	G	A	G	A	SAMPLED BY
					<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
					Au	Cu	Ag								
81000	v.f.g mass. py and f.-med g spec. hem in a cherty, silic volc, tr. cpy, 10-20% hem	30	grab	float	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								RB
87535	qtz-chl-py alt. lbl-fs porph with a 5cm qtz-cc-cpy-hem bx vein	1	grab	float	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								RB
87536	semi-mass py-cpy in a silic maroon-red hem. matrix ~ 3-5% cpy.	35	grab	float	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								RB
87537	qtz-py +/- hem-cpy bx vein along 022/65W shear.	5-10	grab	comp	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								RB

PROPERTY Todd Creek (S. Zone)

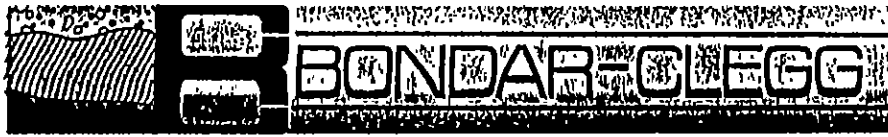
N.T.S. 104A/4

DATE Sept 6/87

ROCK SAMPLE REPORT

PROJECT 281

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G	A	G	A	G	A	G	A	SAMPLED BY
					Au	Ag	Cu						
9251	qtz-cc +/- chl alter py alter ppl-fs porph., local qtz-hem +/- cpy veins from 1mm to 10cm. Trench 21	tr-1	chip	1m	✓	✓	✓						RB
9252	as for 9251, veins from 1mm-1cm	tr-1	chip	1m	.006	.2	.57						RB
9253	as for 9252	tr-1	chip	1m	.018	.2	.53						RB
9254	as for 9252	tr-1	chip	1m	✓	✓	✓						RB
9255	as for 9252	tr-1	chip	1m	✓	✓	✓						RB
9256	as for 9252	tr-1	chip	1m	✓	✓	✓						RB
9257	as for 9252	tr-1	chip	1m	✓	✓	✓						RB
<p>Samples 9251-57 are contiguous from East to West.</p>													



8709-069

REPORT: 427-7630

Todd Cr. S. Zone (RB)

PROJECT: 281

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au GHT	Ag GHT	Cu PCT
---------------	---------------	--------	--------	--------

R2 9258	width	<0.07	<0.7	0.01
---------	-------	-------	------	------

R2 9259		<0.07	<0.7	0.04
---------	--	-------	------	------

R2 9260		1.78	<0.7	0.05
---------	--	------	------	------

R2 9261		<0.07	<0.7	0.01
---------	--	-------	------	------

R2 9262		<0.07	<0.7	0.02
---------	--	-------	------	------

R2 9263		0.75	<0.7	0.04
---------	--	------	------	------

R2 9264		0.31	<0.7	0.03
---------	--	------	------	------

R2 9265		<0.07	<0.7	0.01
---------	--	-------	------	------

R2 9266		0.24	<0.7	0.07
---------	--	------	------	------

R2 9267		<0.07	<0.7	0.01
---------	--	-------	------	------

R2 9268		0.07	<0.7	0.02
---------	--	------	------	------

R2 9269		0.55	<0.7	0.10
---------	--	------	------	------

R2 9270		0.14	<0.7	0.02
---------	--	------	------	------

R2 9271		0.68	<0.7	0.01
---------	--	------	------	------

R2 9272		0.14	<0.7	0.01
---------	--	------	------	------

R2 9273	1.3	0.34	<0.7	0.01
---------	-----	------	------	------

R2 9274		0.75	<0.7	0.03
---------	--	------	------	------

R2 9275		0.99	<0.7	0.06
---------	--	------	------	------

R2 9276	0.8	0.14	<0.7	<0.01
---------	-----	------	------	-------

R2 9277		0.93	<0.7	0.04
---------	--	------	------	------

R2 9278		3.26	<0.7	0.20
---------	--	------	------	------

R2 9279		0.62	<0.7	0.02
---------	--	------	------	------

R2 9280		0.69	<0.7	0.03
---------	--	------	------	------

R2 9281	1.6	0.21	<0.7	0.04
---------	-----	------	------	------

RECEIVED
 OCT - 7 1987

Tr 21
 Tr 22
 Tr 23

Tr 23

0.97/2m fill 281

Tr 25
 1.38/4m or 1.6/3m or 2.1/2m

control

0610 P6 26

Central District
Coid.

Assay: Cu, Ag, Au
to BGC

Sheet 1 of 1

Lab Code 8709-069

24Rx

RECORD OF SAMPLE TRANSMITTAL

NORANDA EXPLORATION COMPANY, LIMITED
P.O. BOX 2380
1050 DAVIE STREET
VANCOUVER, B.C.
V6B 3T5

Date Shipped: Sept 9/87
Date Received: Sept 14/87
Shipped Via: Bus
No. of Cartons: 3 sacks + 1
No. of Samples: 18
Geologist: R. Baerg
Date: Sept 8/87

MATERIAL:

- SOIL
- SILT
- ROCK

(P)

Project Todd Cr. No. 281
(S. Zone)

SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT			SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT		
FROM/LINE	TO/STATION						FROM/LINE	TO/STATION					
9258	9275												

~~Rush!!~~

ANALYTICAL INSTRUCTIONS
 ALL SAMPLES: (Cu, Pb, Zn, Mo, Ag) Au, Ag, Cu Assay!
 (Cu, Pb, Zn, Mo, Ag) + _____
 (Cu, Pb, Zn, Mo, Ag) + AS NOTED (Bondar - clegg)
 RESULTSTO: Prince George

Central
Cord District

Sheet 1 of 1

Lab Code

RECORD OF SAMPLE TRANSMITTAL

NORANDA EXPLORATION COMPANY, LIMITED
P.O. BOX 2380
1050 DAVIE STREET
VANCOUVER, B.C.
V6B 3T5

Date Shipped: Sept 10/87
Date Received: _____
Shipped Via: Bus
No. of Cartons: 1 sack
No. of Samples: 6
Geologist: R. Baerg
Date: Sept 9/87

MATERIAL:

- SOIL
- SILT
- ROCK

Project Todd Cr. No. 281
(S. Zone)

SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT			SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT		
FROM/LINE	TO/STATION						FROM/LINE	TO/STATION					
<u>9276</u>	<u>9281</u>												

Rush!!!

ANALYTICAL INSTRUCTIONS

ALL SAMPLES: (Cu, Pb, Zn, Mo, Ag)
 (Cu, Pb, Zn, Mo, Ag) + ___ + ___
 (Cu, Pb, Zn, Mo, Ag) + AS NOTED

RESULTS TO: Prince George

SPECIAL INSTRUCTIONS OR REMARKS:
Au, Ag, Cu Assay
(Bondar - clegg)

NORANDA EXPLORATION COMPANY, LIMITED

PROPERTY Todd Creek (S. Zone)

N.T.S. 104 A/4

DATE Sept 8/87.

ROCK SAMPLE REPORT

PROJECT 281

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G	A	G	A	G	A	G	A	G	A	SAMPLED BY
					Au	Ag	Cu								
9267	as for 9258, 7-10% vein Trench 23A	.5-1	chip	1.5m	✓	✓	✓								RB
9268	as for 9258 5% vein Trench 23B	.5-1	chip	1m	✓	✓	✓								RB
9269	as for 9258, 20% vein Trench 23B	1-2	chip	.6m	✓	✓	✓								RB
9270	as for 9258, 7-10% vein Trench 23B	.5-1	chip	1.3m	✓	✓	✓								RB
9271	as for 9258, 20-25% vein Trench 23C	1-2	chip	1m	✓	✓	✓								RB
9272	as for 9258, 10-12% vein Trench 23C	.5-1	chip	1m	✓	✓	✓								RB
		.5-1	chip	1.3m	✓	✓	✓								RB
9273	as for 9258, 8-10% vein Trench 23C														
9274	as for 9258, 12-15% vein Trench 23D	.5-1	chip	1m	✓	✓	✓								RB
9275	as for 9258, 12-15% vein Trench 23D	.5-1	chip	1.1m	✓	✓	✓								RB

G = GEOCHEM A = ASSAY

PROPERTY Todd Creek (S. Zone)

N.T.S. 104 A/4

DATE Sept 8/87

ROCK SAMPLE REPORT

PROJECT 281

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G	A	G	A	G	A	G	A	SAMPLED BY
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
					Au	Ag	Cu						
9258	gtz-chl alt. hbl-fs porph with local 1-2cm gtz-hem- cpy veins (Trench 21)	tr-l	chip	1m	✓	✓	✓						RB
9259	as for 9258 (Trench 21)	tr-l	chip	1m	✓	✓	✓						RB
9260	as for 9258, abund gtz- hem-cpy veins and bx veins from 10cm, ~10% vein, 5- 19% cpy (Trench 24)	1-2	chip	2.7m	✓	✓	✓						
9261	as for 9258, several .5-5cm gtz-hem-cpy-cc vein, 3-5% vein Trench 22	.5-1	chip	1.5m	✓	✓	✓						RB
9262	as for 9258, 3-5% vein Trench 23 A	.5-1	chip	1m	✓	✓	✓						RB
9263	as for 9258, 12-15% vein Trench 23 A	.5-1	chip	1m	✓	✓	✓						RB
9264	as for 9258, 5-7% vein Trench 23 A	.5-1	chip	1m	✓	✓	✓						RB
9265	as for 9258, 2-5% vein Trench 23 A	.5-1	chip	1m	✓	✓	✓						RB
9266	as for 9258, 12-15% vein Trench 23 A	.5-1	chip	1m	✓	✓	✓						RB

PROPERTY Todd Creek (S. Zone)

N.T.S. 104A/4

DATE Sept 9/87

ROCK SAMPLE REPORT

PROJECT 281

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G	A	G	A	G	A	G	A	SAMPLED BY
					✓	✓	✓	✓	✓	✓	✓	✓	
9276	gtz-chl+/-scr alt. hbl-fs porph with local .1-2cm gtz-hem-cc-cpy veins, ~5% vein (Trench 25)	tr-1	chip	.8m	✓	✓	-						RB
9277	as for 9276, ~25% vein (Trench 25)	1-2	chip	1m	✓	✓	✓						RB
9278	as for 9276, ~50% vein (Trench 25)	1-2	chip	1m	✓	✓	✓						RB
9279	gtz-hbl-fs porph bx, gtz-hem porph bx vein, hem -cc +/- cpy infilling (Trench 25)	1-2	chip	1m	✓	✓	✓						RB
9280	as for 9279 (Trench 25)	1-2	chip	1m	✓	✓	✓						RB
9281	silic, str. fract hbl-fs porph with abund .1-1cm gtz-hem-cc- +/- cpy vein, ~10% vein (Trench 25)	tr-1	chip	1.6m	✓	✓	✓						RB



NTC 89-2

8709-087

REPORT: 427-8027

Todd Cr (R)

PROJECT: 281

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au GMT	Ag GMT	Cu PCT
D2 16031		0.82	<0.7	0.10
D2 16032		0.07	<0.7	0.09
D2 16033		<0.07	<0.7	0.05
D2 16034		<0.07	<0.7	0.03
D2 16035		0.82	<0.7	0.03
D2 16036		<0.07	<0.7	0.04
D2 16037		0.07	<0.7	0.01
D2 16038		<0.07	<0.7	0.02
D2 16039		0.45	<0.7	0.03
D2 16040		0.17	<0.7	0.01
D2 16041		0.31	<0.7	0.03
D2 16042		0.86	<0.7	0.06
D2 16043		0.34	<0.7	0.08
D2 16044		0.10	<0.7	0.01
D2 16045		0.51	<0.7	0.04
D2 16046		0.24	<0.7	0.01
D2 16047		0.24	<0.7	0.02
D2 16048		0.17	<0.7	0.01
D2 16049		0.55	<0.7	0.01
D2 16050		0.17	<0.7	0.01
D2 16051		0.10	<0.7	0.01
D2 16052		0.99	<0.7	0.32
D2 16053		4.42	1.0	0.38
D2 16054		0.27	<0.7	0.03
D2 16055		0.31	<0.7	0.04
D2 16056		0.24	<0.7	0.14
D2 16057		4.59	0.7	0.24
D2 16058		2.64	0.7	0.28
D2 16059		0.48	<0.7	0.05
D2 16060		<0.07	<0.7	0.01
D2 16061		<0.07	<0.7	0.01
D2 16062		<0.07	<0.7	<0.01
D2 16063		<0.07	<0.7	<0.01
D2 16064		<0.07	<0.7	0.01
D2 16065		<0.07	<0.7	0.01

RECEIVED
 OCT 21 1987
 ANALYTICAL

file: 281

*1.86m } 3.25gmt / 1.86m
 1.5m } 4.10gmt / 2.0m*

2/10 PE 8P

[Signature]

Central District
 Cord
 35 Cores



Assay: Cu, Ag, Au to 1/4

Sheet 1 of 1

Lab Code 87-09-087

RECORD OF SAMPLE TRANSMITTAL

NORANDA EXPLORATION COMPANY, LIMITED
 P.O. BOX 2380
 1050 DAVIE STREET
 VANCOUVER, B.C.
 V6B 3T5

Date Shipped: Sept 15/87
 Date Received: Sept 21/87
 Shipped Via: Bus
 No. of Cartons: 4
 No. of Samples: 35
 Geologist: R. Baerg
 Date: Sept 14/87

MATERIAL:
 SOIL
 SILT
 ROCK (Core)

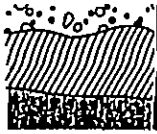
Project Todd Cr No. 281
 (NTC-87-2)

SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT			SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT		
FROM/LINE	TO/STATION						FROM/LINE	TO/STATION					
16031	2.74-5.50						16055	31.20-32.20					
32	5.50-7.00						56	32.20-33.10					
33	7.00-8.50						57	33.10-34.60					
34	8.50-10.00						58	34.60-35.10					
35	10.00-10.50						59	35.10-36.10					
36	10.50-12.00						60	36.10-37.60					
37	12.00-13.50						61	37.60-39.10					
38	13.50-14.54						62	39.10-40.60					
39	14.54-16.04						63	40.60-42.10					
40	16.04-17.82						64	42.10-43.60					
41	17.82-18.82						65	43.60-45.72					
42	18.82-19.82												
43	19.82-20.82												
44	20.82-21.56												
45	21.56-22.56												
46	22.56-23.56												
47	23.56-24.56												
48	24.56-25.56												
49	25.56-26.56												
50	26.56-27.56												
51	27.56-28.84												
52	28.84-29.70												
53	29.70-30.20												
16054	30.20-31.20												

~~RUSH!!!~~

ANALYTICAL INSTRUCTIONS
 ALL SAMPLES: (Cu, Pb, Zn, Mo, Ag)
 (Cu, Pb, Zn, Mo, Ag) + ___ + ___
 (Cu, Pb, Zn, Mo, Ag) + AS NOTED
 RESULTS TO: Prince George

SPECIAL INSTRUCTIONS OR REMARKS:
 Au, Ag, Cu Assay
 (Bondar-Clegg)



NTC 89-1

8709-073

REPORT: 427-7683

Iodd Co (RAs)

PROJECT: 281

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au GMT	Ag GMT	Cu PCT	SAMPLE NUMBER	ELEMENT UNITS	Au GMT	Ag GMT	Cu PCT
R2 9282	1.1	0.62	<0.7	0.01	D2 16011		0.24	<0.7	0.01
R2 9283	1.0	0.62	<0.7	0.02	D2 16012		<0.07	<0.7	0.03
R2 9284	1.0	0.62	<0.7	0.03	D2 16013		<0.07	<0.7	0.02
R2 9285	1.0	1.82	<0.7	0.05	D2 16014		<0.07	<0.7	0.01
R2 9286	1.0	3.15	0.7	0.22	D2 16015		0.10	<0.7	0.06
R2 9287	1.0	0.14	<0.7	0.02	D2 16016		0.17	<0.7	<0.01
R2 9288	1.0	0.24	<0.7	0.02	D2 16017		0.07	<0.7	0.11
R2 9289	1.0	<0.07	1.0	0.01	D2 16018		0.17	<0.7	0.05
R2 9290	1.0	<0.07	<0.7	0.01	D2 16019		0.41	<0.7	0.13
R2 9291	1.0	0.24	<0.7	0.01	D2 16020		0.45	<0.7	0.10
R2 9292	1.0	0.27	<0.7	0.05	D2 16021		<0.07	<0.7	0.02
R2 9293	1.0	<0.07	<0.7	<0.01	D2 16022		<0.07	<0.7	0.01
R2 9294	1.0	0.58	0.7	0.10	D2 16023		<0.07	<0.7	0.01
R2 9295	1.0	0.07	<0.7	0.02	D2 16024		<0.07	<0.7	<0.01
R2 9296	1.0	0.27	<0.7	0.03	D2 16025		<0.07	<0.7	<0.01
R2 9297	1.0	<0.07	<0.7	0.02	D2 16026		0.72	<0.7	0.20
R2 9298	1.0	<0.07	<0.7	0.01	D2 16027		<0.07	<0.7	<0.01
R2 9299	1.0	<0.07	1.4	<0.01	D2 16028		<0.07	<0.7	<0.01
R2 9300	1.0	<0.07	1.4	0.01	D2 16029		<0.07	<0.7	<0.01
R2 9301	1.0	0.10	2.1	0.02	D2 16030		<0.07	<0.7	<0.01
R2 9302	1.0	<0.07	0.7	<0.01					
R2 9303	1.0	<0.07	<0.7	0.02					
R2 9304	1.0	0.07	<0.7	0.02					
R2 9305	0.8	0.07	<0.7	0.03					
R2 9306	1.10	0.7	0.04						
R2 9307	1.0	0.07	<0.7	0.01					
R2 9308	1.0	0.31	<0.7	0.11					
R2 9309	1.0	0.24	<0.7	0.03					
R2 9310	1.0	0.21	1.4	0.08					
R2 9311	0.9	<0.07	<0.7	0.01					
D2 16001		<0.07	<0.7	<0.01					
D2 16002		<0.07	<0.7	<0.01					
D2 16003		<0.07	<0.7	<0.01					
D2 16004		0.72	<0.7	0.08					
D2 16005		0.45	<0.7	0.03					
D2 16006		<0.07	<0.7	0.01					
D2 16007		<0.07	<0.7	<0.01					
D2 16008		<0.07	<0.7	<0.01					
D2 16009		<0.07	<0.7	0.03					
D2 16010		0.10	<0.7	0.01					

Tr 26
 1.37/5m
 2.5/2m

Tr 27

Tr 28

RECEIVED
 OCT 19 1987
 ISO 515

cc: Rob
 file: 281

11.16 3P

Central District
Card

Assay: Cu, Ag, Au to BSC

Sheet 1 of 1

Lab Code 8709-073

RECORD OF SAMPLE TRANSMITTAL

30 Rx
80 Cores
NORANDA EXPLORATION COMPANY, LIMITED
P.O. BOX 2380
1050 DAVIE STREET
VANCOUVER, B.C.
V6B 3T5

Date Shipped: Sept 13/87
Date Received: Sept-16/87
Shipped Via: Bus
No. of Cartons: 7 Sacks
No. of Samples: 40
Geologist: R. Baerg
Date: Sept 12/87

MATERIAL:
 SOIL
 SILT
 ROCK + Core

Completion date: 00/00
W 427-7683

Project Todd Cr No. 281

SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT	SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT
FROM/LINE	TO/STATION				FROM/LINE	TO/STATION			
16021	32.30 - 33.80								
22	33.80 - 35.30								
23	35.30 - 36.80								
24	36.80 - 38.87								
25	38.87 - 40.37								
26	40.37 - 41.60								
27	41.60 - 43.10								
28	43.10 - 44.60								
29	44.60 - 46.10								
16030	46.10 - 48.20								
9282	9311								

Rush!!

427-7683
60 samples.

ANALYTICAL
INSTRUCTIONS
ALL SAMPLES: (Cu, Pb, Zn, Mo, Ag)
(Cu, Pb, Zn, Mo, Ag) + ___ + ___
(Cu, Pb, Zn, Mo, Ag) + AS NOTED
RESULTS TO: Prince George

SPECIAL INSTRUCTIONS OR REMARKS:
Au, Ag, Cu Assay
(Bondar - clegg)

RECORD OF SAMPLE TRANSMITTAL

NORANDA EXPLORATION COMPANY, LIMITED
P.O. BOX 2380
1050 DAVIE STREET
VANCOUVER, B.C.
V6B 3T5

Lab Code _____
Date Shipped: Sept 11/87
Date Received: _____
Shipped Via: Bus
No. of Cartons: _____
No. of Samples: 20
Geologist: R Baerg
Date: Sept 11/87

MATERIAL:

- SOIL
 SILT
 ROCK (core)

Project Todd Cr No. 281
CNTC-87-1

SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT			SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT		
FROM/LINE	TO/STATION			FROM/LINE	TO/STATION						FROM/LINE	TO/STATION	
16001	1.22-4.22		0.07 0.07										
02	4.22-7.22		...										
03	7.22-8.81		...										
04	8.81-10.24		0.72 0.7										
05	10.24-11.87		0.45 0.7										
06	11.87-12.54		0.07 0.7										
07	12.54-14.04		-										
08	14.04-14.99		-										
09	14.99-16.49		-										
10	16.49-18.12		0.10 0.7										
11	18.12-19.62		0.24 0.7										
12	19.62-21.12		0.07 0.7										
13	21.12-22.62		-										
14	22.62-24.12		-										
15	24.12-25.62		0.10 0.7										
16	25.62-27.17		0.17 0.7										
17	27.17-28.67		0.07 0.7										
18	28.67-30.17		0.17 0.7										
19	30.17-31.67		0.41 0.7										
20	31.67-32.30		0.43 0.7										

RWSH!!!

ANALYTICAL INSTRUCTIONS
ALL SAMPLES: (Cu, Pb, Zn, Mo, Ag)
(Cu, Pb, Zn, Mo, Ag) + ___ + ___
(Cu, Pb, Zn, Mo, Ag) + AS NOTED
RESULTS TO: Prince George

SPECIAL INSTRUCTIONS OR REMARKS:
Au, Ag, Cu Assay

PROPERTY Todd Cr. (S. Zone)

N.T.S. 104 A/17
 DATE Sept 12/87
 PROJECT 281

ROCK SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G	A	G	A	G	A	G	A	SAMPLED BY
					□	□	□	□	□	□	□	□	
					Au	Ag	Cu						
9282	Mixed gtz+hbl-fs porph bx, local narrow gtz-hem-ser-cpx v., ~50% gtz-bx (Trench 26)	tr	chip	1.1m	✓	✓	✓						RB
9283	as for 9282, gtz-hem-cpx bx v. to 6cm, ~25-30% gtz bx, 5-10% gtz v. (Trench 26)	tr	chip	1m	✓	✓	✓						RB
9284	as for 9282, 10-15% gtz bx, 10% gtz v. (Trench 26)	tr	chip	1m	✓	✓	✓						RB
9285	as for 9284 (Trench 26)	tr	chip	1m	✓	✓	✓						RB
9286	as for 9284 (Trench 26)	tr	chip	1m	✓	✓	✓						RB
9287	hbl-fs porph, chl-ser tl-gtz alt, local narrow gtz-hem-cpx v. 3-5% gtz v. (Trench 27)	tr	chip	1m	✓	✓	✓						RB
9288	as for 9287, 1-8cm gtz-hem-cpx bx v., 10-12% gtz v. (Trench 27)	tr	chip	1m	✓	✓	✓						RB
9289	as for 9287, ~1% gtz v. (Trench 27)	tr	chip	1m	✓	✓	✓						RB
9290	as for 9287, 1-2% gtz v. (Trench 27)	tr	chip	1m	✓	✓	✓						RB
9291	as for 9287, ~2% gtz v. (Trench 27)	tr	chip	1m	✓	✓	✓						RB

PROPERTY Todd Cr. (S. Zone)

N.T.S. 104 A/19

DATE Sept 12/87

ROCK SAMPLE REPORT

PROJECT 281

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G	A	G	A	G	A	G	A	SAMPLED BY
					Au	Ag	Cu						
9292	as for 9287, 8-10% gtz v., (Trench 27)	tr	chip	1m	✓	✓	-						RB
9293	as for 9287, 2-3% gtz v., (Trench 27)	tr	chip	1m	✓	-	-						RB
9294	as for 9287, 3-5% gtz v., (Trench 27)	tr	chip	1m	✓	-	-						RB
9295	as for 9287, 2-3% gtz v., (Trench 27)	tr	chip	1m	✓	✓	-						RB
9296	as for 9287, 8-10% gtz v., (Trench 27)	tr	chip	1m	✓	-	-						RB
9297	as for 9287, 2-3% gtz v., (Trench 27)	tr	chip	1m	✓	-	-						RB
9298	as for 9287, 5-7% gtz v., (Trench 27)	tr	chip	1m	✓	-	-						RB
9299	as for 9287, 3-5% gtz v., (Trench 27)	tr	chip	1m	✓	-	-						RB
9300	as for 9287, 3-5% gtz v., (Trench 27)	tr	chip	1m	✓	-	-						RB
9301	as for 9287, 5-7% gtz v., (Trench 27)	tr	chip	1m	✓	✓	-						RB
9302	as for 9287, 2-3% gtz v., (Trench 27)	tr	chip	1m	✓	✓	-						RB

PROPERTY Todd Cr (s. zone)

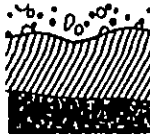
N.T.S. 104 A/4

DATE Sept 12/87

ROCK SAMPLE REPORT

PROJECT: 281

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G	A	G	A	G	A	G	A	SAMPLED BY
					Au	Ag	Cu						
9303	as for 9287, 2-370 gtz v. (Trench 27)	tr	chip	1m	✓	✓	✓						RB
9304	as for 9287, 8-1070 gtz v. (Trench 27)	tr	chip	1m	✓	✓	✓						RB
9305	as for 9287, 3-570 gtz v. (Trench 27)	tr	chip	.8m	✓	✓	✓						RB
9306	as for 9287, 12-1570 gtz v (Trench 11 Exten.)	tr	chip	1m	✓	✓	✓						RB
9307	as for 9287, 2-370 gtz v. (Trench 11 Exten.)	tr	chip	1m	✓	✓	✓						RB
9308	as for 9287, 12-1570 gtz v. (Trench 11 Exten.)	tr	chip	1m	✓	✓	✓						RB
9309	as for 9287, 10-1270 gtz v. (Trench 11 Exten.)	tr	chip	1m	✓	✓	✓						RB
9310	as for 9287, 8-1070 gtz v. (Trench 11 Exten.)	tr	chip	1m	✓	✓	✓						RB
9311	as for 9287, 3-570 gtz v. (Trench 11 Exten.)	tr	chip	.9m	✓	✓	✓						RB



NTC 87-3.

8709-102

REPORT: 427-8061.

Total Co/S. Zone (RB)

PROJECT: 281

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au GHT	Ag GHT	Cu PCT	SAMPLE NUMBER	ELEMENT UNITS	Au GHT	Ag GHT	Cu PCT
R2 9312	0.9	<0.07	<0.7	0.02	D2 16080		<0.07	<0.7	0.01
R2 9313	1.0	<0.07	<0.7	0.01	D2 16081		0.51	<0.7	0.02
R2 9314	1.0	<0.07	<0.7	0.04	D2 16082		<0.07	<0.7	<0.01
R2 9315	1.0	<0.07	<0.7	0.01	D2 16083		3.12	<0.7	0.11 / 1m
R2 9316	0.9	8.81	0.7	0.30	D2 16084		1.03	<0.7	0.12 / 1m
R2 9317	1.0	0.34	<0.7	0.02	D2 16085		0.17	0.7	0.01
R2 9318	1.0	0.10	<0.7	0.01	D2 16086		0.14	<0.7	0.01
R2 9319	1.0	0.10	<0.7	0.01	D2 16087		0.07	<0.7	0.01
R2 9320	1.2	0.31	<0.7	0.02	D2 16088		<0.07	<0.7	0.01
R2 9321	1.0	2.06	1.0	0.02	D2 16089		<0.07	<0.7	0.01
R2 9322	1.0	0.31	<0.7	0.12 / 1m	D2 16090		<0.07	<0.7	0.01
R2 9323	1.0	0.72	<0.7	0.19 / 1m	D2 16091		2.26	<0.7	0.10 / 1.24m
R2 9324	1.3	0.82	<0.7	0.06	D2 16092		0.07	<0.7	0.02
R2 9325	1.0	0.10	0.7	0.22 / 1m	D2 16093		<0.07	<0.7	0.01
R2 9326	1.0	0.21	<0.7	0.08	D2 16094		0.65	<0.7	0.04
R2 9327	1.0	0.65	<0.7	0.08	D2 16095		0.21	<0.7	0.02
R2 9328	1.0	0.07	<0.7	0.02	D2 16096		<0.07	<0.7	0.02
R2 9329	1.0	0.10	<0.7	0.06	D2 16097		0.07	<0.7	0.01
R2 9330	0.9	0.07	<0.7	0.07	D2 16098		0.07	<0.7	0.01
R2 9331	1.0	<0.07	<0.7	<0.01	D2 16099		5.86	1.7	0.40 / .72m
R2 9332	1.0	<0.07	<0.7	<0.01	D2 16100		0.10	5.1	0.03
R2 9333	1.0	<0.07	<0.7	<0.01	D2 16101		0.10	<0.7	0.01
R2 9334	1.0	<0.07	<0.7	<0.01	D2 16102		<0.07	<0.7	<0.01
R2 9335	1.0	<0.07	0.7	<0.01	D2 16103		<0.07	<0.7	<0.01
R2 9336	1.0	<0.07	<0.7	0.02					
R2 9337	1.0	<0.07	<0.7	0.01					
D2 16066		<0.07	<0.7	<0.01					
D2 16067		<0.07	<0.7	0.01					
D2 16068		0.82	<0.7	0.06					
D2 16069		0.14	<0.7	<0.01					
D2 16070		0.07	<0.7	0.02					
D2 16071		<0.07	<0.7	0.01					
D2 16072		0.45	<0.7	0.04					
D2 16073		<0.07	<0.7	0.02					
D2 16074		0.34	<0.7	0.06					
D2 16075		<0.07	<0.7	0.02					
D2 16076		0.10	<0.7	0.02					
D2 16077		0.07	<0.7	0.01					
D2 16078		0.07	<0.7	0.01					
D2 16079		0.72	<0.7	0.01					

RECEIVED
OCT 21 1987

cc. Prob
file 281

[Handwritten signature]

20/0 pt 8f

Assay - Cu, Ag, Au
to B.C.

Sheet 1 of

Lab Code 8709-102

??

Central District
Cad 26 R_x
38 Cores

RECORD OF SAMPLE TRANSMITTAL

Date Shipped:

Date Received: Sept. 23 / 87

Shipped Via: Bus

No. of Cartons: 10 (LAB)

No. of Samples: ??

Geologist: R. Baerg

Date: Sept 15 / 87

NORANDA EXPLORATION COMPANY, LIMITED
P.O. BOX 2380
1050 DAVIE STREET
VANCOUVER, B.C.
V6B 3T5

MATERIAL:

SOIL

SILT

ROCK

(P)

Project Todd Cr No. 281
(S-Zone)

SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT			SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT		
FROM/LINE	TO/STATION						FROM/LINE	TO/STATION					
<u>9312</u>	<u>- 9324</u>								...				
<u>9325</u>	<u>- 9337</u>												

Rush!!

ANALYTICAL INSTRUCTIONS

ALL SAMPLES: (Cu, Pb, Zn, Mo, Ag)
 (Cu, Pb, Zn, Mo, Ag) +
 (Cu, Pb, Zn, Mo, Ag) + AS NOTED

RESULTS TO: Prince George

SPECIAL INSTRUCTIONS OR REMARKS:
Au, Ag, Cu Assay
(Bondar-Clegg)

Central District

RECORD OF SAMPLE TRANSMITTAL

NORANDA EXPLORATION COMPANY, LIMITED
 P.O. BOX 2380
 1050 DAVIE STREET
 VANCOUVER, B.C.
 V6B 3T5

MATERIAL:

- SOIL
- SILT
- ROCK (core)

Lab Code _____

Date Shipped: ??!

Date Received: ??!

Shipped Via: Bus.

No. of Cartons: ??!

No. of Samples: ??!

Geologist: R. Baerg

Date: Sept 17/87

Project Todd Creek No 281
(NTC-87-3)

SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT			SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT		
FROM/LINE	TO/STATION			FROM/LINE	TO/STATION						FROM/LINE	TO/STATION	
16066	1.22 - 2.50						16090	29.80 - 31.56					
67	2.50 - 3.50												
68	3.50 - 4.00												
69	4.00 - 5.50												
70	5.50 - 7.00												
71	7.00 - 8.50												
72	8.50 - 9.00												
73	9.00 - 10.50												
74	10.50 - 11.50												
75	11.50 - 12.50												
76	12.50 - 14.00												
77	14.00 - 15.50												
78	15.50 - 17.00												
79	17.00 - 18.10												
80	18.10 - 19.10												
81	19.10 - 19.60												
82	19.60 - 21.30												
83	21.30 - 22.30												
84	22.30 - 23.30												
85	23.30 - 24.30												
86	24.30 - 25.30												
87	25.30 - 26.80												
88	26.80 - 28.30												
16089	28.30 - 29.80												

Rush

ANALYTICAL INSTRUCTIONS

- ALL SAMPLES: (Cu, Pb, Zn, Mo, Ag)
- (Cu, Pb, Zn, Mo, Ag) + ___ + ___
- (Cu, Pb, Zn, Mo, Ag) + AS NOTED

SPECIAL INSTRUCTIONS OR REMARKS:

*Au, Ag, Cu Assay.
 (Bondar - clegg)*

RESULTS TO: Prince George

Central District
Coast

Sheet 1 of 1

RECORD OF SAMPLE TRANSMITTAL

Lab Code _____

NORANDA EXPLORATION COMPANY, LIMITED
P.O. BOX 2380
1050 DAVIE STREET
VANCOUVER, B.C.
V6B 3T5

Date Shipped: Sept 18/87

Date Received: _____

Shipped Via: Bus

No. of Cartons: 2

No. of Samples: ??

Geologist: R. Baerg

Date: Sept 18/87

MATERIAL:

- SOIL
- SILT
- ROCK (core)

Project Judd Cr. (NTC-87-3) No. 281

SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT			SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT		
FROM/LINE	TO/STATION			FROM/LINE	TO/STATION						FROM/LINE	TO/STATION	
<u>16091</u>	<u>31.56-32.80</u>												
<u>92</u>	<u>32.80-34.00</u>												
<u>93</u>	<u>34.00-35.00</u>												
<u>94</u>	<u>35.00-36.00</u>												
<u>95</u>	<u>36.00-37.00</u>												
<u>96</u>	<u>37.00-38.00</u>												
<u>97</u>	<u>38.00-39.00</u>												
<u>98</u>	<u>39.00-39.60</u>												
<u>99</u>	<u>39.60-40.32</u>												
<u>16100</u>	<u>40.32-42.06</u>												
<u>01</u>	<u>42.06-45.06</u>												
<u>02</u>	<u>45.06-48.06</u>												
<u>03</u>	<u>48.06-51.21</u>												

Rush!

ANALYTICAL
INSTRUCTIONS

- ALL SAMPLES: (Cu, Pb, Zn, Mo, Ag)
- (Cu, Pb, Zn, Mo, Ag) + ___ + ___
- (Cu, Pb, Zn, Mo, Ag) + AS NOTED

SPECIAL INSTRUCTIONS OR REMARKS:

Au, Ag, Cu Assay
(Bondar-Clegg)

RESULTS TO: Prince George

PROPERTY Todd Creek (S. Zone)

N.T.S. 104A/4

DATE Sept 15/87

ROCK SAMPLE REPORT

PROJECT: 281

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G	A	G	A	G	A	G	A	G	A	SAMPLED BY
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
9312	Hornblende - Feldspar porphyry chl-ser-hem alt. with local .1-.3 cm gtz v. (Trench B Exten) ~ 1% gtz v.	tr	chip	.9m	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RB
9313	as for 9312, ~ 1-2% gtz v. (Trench B Exten)	tr	chip	1m	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RB
9314	as for 9312, ~ 2-3% gtz v. (Trench B Exten)	tr	chip	1m	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RB
9315	as for 9312, ~ 3-5% gtz v. (Trench B Exten)	tr	chip	1m	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RB
9316	Qtz-hem-cpy tl-py bx v, ~ .1-.5% cpy (Trench B, resample 15171)	5	chip	.9m	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RB
9317	Hbl-Fs-porph, chl-ser tl- si alt, 10-12% gtz-hem-cpy v. (Trench B, resample 15171)	.1-.5	chip	1m	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RB
9318	as for 9317, 10-12% gtz- hem-cpy v. (Trench B, resample 15171)	.1-.2	chip	1m	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RB
9319	as for 9317, 15-20% gtz v. (resample Trench B, 15170)	.1-.2	chip	1m	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RB
9320	as for 9317, 15-20% gtz v. (Trench B, resample 15170)	.1-.2	chip	1.2m	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RB

PROPERTY Todd Creek (S. Zone)

N.T.S. 104A/4

DATE Sept 15/87

ROCK SAMPLE REPORT

PROJECT: 281

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G	A	G	A	G	A	G	A	G	A	SAMPLED BY
					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
					Au	Ag	Cu								
9321	Mixed gtz-hem-cpy v. stkwk breccia and hbl-fs porph bx .1-.3% cpy, 40-50% gtz ^v and bx v. (Trench 29)	1-2	chip	1m	✓	✓	✓								RB
9322	as for 9321, 20-25% gtz v and bx v. .1-.2% cpy	.5-1	chip	1m	✓	✓	✓								RB
9323	as for 9321 50-60% gtz v. and bx v. .3-.5% cpy	1-2	chip	1m	✓	✓	✓								RB
9324	as for 9321, 30-40% gtz v. and bx v. .1-.3% cpy	1-2	chip	1.3m	✓	✓	✓								RB

G = GEOCHEM A = ASSAY

PROPERTY Todd Creek (S. Zone)

N.T.S. 104A/4
 DATE Sept 16/87
 PROJECT 281

ROCK SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G	A	G	A	G	A	G	A	G	A	SAMPLED BY
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
					Au	Ag	Cu								
9325	Hbl-Fs pmph, gtz-ser-chl alt, 3-5% gtz v. (Trench 1)	tr	chip	1m	✓	✓	✓								RB
9326	as for 9325, 3-5% gtz v	tr	chip	1m	✓	✓	✓								RB
9327	as for 9325, 15-20% gtz v, 1-10cm gtz bx v.	l	chip	1m	✓	✓	✓								RB
9328	as for 9325, 8-10% gtz v.	tr	chip	1m	✓	✓	✓								RB
9329	as for 9325, 3-5% gtz v.	tr	chip	1m	✓	✓	✓								RB
9330	as for 9325, 1-2% gtz v	tr	chip	.9m	✓	✓	✓								RB
9331	as for 9325, 2-3 "	tr	chip	1m	✓	✓	✓								"
9332	as for 9325, 2-3 "	tr	chip	1m	✓	✓	✓								"
9333	as for 9325, 1-2 "	tr	chip	1m	✓	✓	✓								"
9334	as for 9325, 1-2 "	tr	chip	1m	✓	✓	✓								"
9335	as for 9325, 1-2 "	tr	chip	1m	✓	✓	✓								"
9336	as for 9325, 2-3 "	tr	chip	1m	✓	✓	✓								"
9337	as for 9325, 3-5 "	tr	chip	1m	✓	✓	✓								"



4

REPORT: 427-8156

PROJECT: 281

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au GHT	Ag GHT	Cu PCT
D2 16104		<0.07	<0.7	0.01
D2 16105		<0.07	<0.7	0.02
D2 16106		<0.07	<0.7	<0.01
D2 16107		0.10	<0.7	0.06
D2 16108		<0.07	<0.7	<0.01
D2 16109		<0.07	<0.7	<0.01
D2 16110		<0.07	<0.7	<0.01
D2 16111		1.71	<0.7	0.35
D2 16112		0.07	<0.7	0.01
D2 16113		<0.07	<0.7	<0.01
D2 16114		0.07	<0.7	<0.01
D2 16115		<0.07	<0.7	<0.01
D2 16116		<0.07	<0.7	<0.01
D2 16117		<0.07	<0.7	<0.01
D2 16118		<0.07	<0.7	<0.01
D2 16119		<0.07	<0.7	<0.01
D2 16120		<0.07	<0.7	<0.01
D2 16121		<0.07	<0.7	<0.01
D2 16122		<0.07	<0.7	0.02
D2 16123		<0.07	<0.7	<0.01
D2 16124		<0.07	<0.7	<0.01
D2 16125		0.27	<0.7	0.08
D2 16126		0.21	<0.7	0.07
D2 16127		0.21	<0.7	0.20
D2 16128		<0.07	<0.7	0.05
D2 16129		<0.07	<0.7	0.05
D2 16130		<0.07	<0.7	0.09
D2 16131		0.34	<0.7	0.72
D2 16132		0.07	<0.7	0.38
D2 16133		0.10	<0.7	0.05
D2 16134		1.34	0.7	0.14
D2 16135		0.48	<0.7	0.04
D2 16136		0.27	<0.7	<0.01
D2 16137		0.17	<0.7	<0.01
D2 16138		0.07	<0.7	<0.01
D2 16139		1.41	<0.7	0.06
D2 16140		0.07	<0.7	0.02
D2 16141		<0.07	<0.7	0.02

0.5m

1.5m

0.5m } 5% Cu / 1.5m
1m

1.53m } 0.17 } 0.036 / 2.5m
1m

1.53m

RECEIVED
OCT 22 1987

Central District
 Cord.
 38 Cores

Assay: Cu, Ag, Au
 to B₃C

Sheet 1 of 1

Lab Code 870-005

RECORD OF SAMPLE TRANSMITTAL

NORANDA EXPLORATION COMPANY, LIMITED
 P.O. BOX 2380
 1050 DAVIE STREET
 VANCOUVER, B.C.
 V6B 3T5

Date Shipped: ??!
 Date Received: Sept-28/87
 Shipped Via: Bus
 No. of Cartons: ??! 1 (5 LABELS)
 No. of Samples: ??!!
 Geologist: R. Baerg
 Date: Sept 20/87

MATERIAL:
 SOIL
 SILT
 ROCK (core)

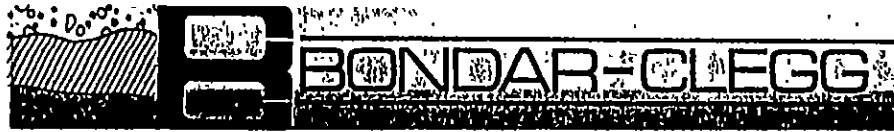
Project Todd Cr. No. 281
(NTE-87-4)

SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT			SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT		
FROM/LINE	TO/STATION			FROM/LINE	TO/STATION		FROM/LINE	TO/STATION			FROM/LINE	TO/STATION	
16104	.3 - 2.5						16128	32.70 - 33.70					
05	2.5 - 4.0						29	33.70 - 34.70					
06	4.0 - 5.5						30	34.70 - 35.20					
07	5.5 - 6.0						31	35.20 - 35.70					
08	6.0 - 8.25						32	35.70 - 36.70					
09	8.25 - 9.75						33	36.70 - 37.47					
10	9.75 - 11.15						34	37.47 - 39.00					
11	11.15 - 11.65						35	39.00 - 40.00					
12	11.65 - 12.65						36	40.00 - 41.00					
13	12.65 - 14.15						37	41.00 - 42.00					
14	14.15 - 15.65						38	42.00 - 43.00					
15	15.65 - 17.15						39	43.00 - 43.53					
16	17.15 - 18.67						40	43.53 - 45.00					
17	18.67 - 20.17						16141	45.00 - 46.50					
18	20.17 - 21.67												
19	21.67 - 23.17												
20	23.17 - 24.67												
21	24.67 - 25.60												
22	25.60 - 27.10												
23	27.10 - 28.60												
24	28.60 - 29.40												
16125	29.40 - 30.20												
26	30.20 - 31.20												
27	31.20 - 32.70												

~~Rush!!~~

ANALYTICAL INSTRUCTIONS
 ALL SAMPLES: (Cu, Pb, Zn, Mo, Ag)
 (Cu, Pb, Zn, Mo, Ag) + ___ + ___
 (Cu, Pb, Zn, Mo, Ag) + AS NOTED
 RESULTS TO: Prince George

SPECIAL INSTRUCTIONS OR REMARKS:
Au, Ag, Cu Assay
(Bondar-Clegg)



NTC-87-4

8710-013

REPORT: 427-8192

Todd Cr (Rb)

PROJECT: 281

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au GHT	Ag GHT	Cu PCT
---------------	---------------	--------	--------	--------

D2-16142		0.10	<0.7	0.02
D2-16143		<0.07	<0.7	<0.01
D2-16144		<0.07	<0.7	0.01
D2-16145		<0.07	<0.7	<0.01
D2-16146		0.10	<0.7	<0.01
D2-16147		<0.07	<0.7	0.01

RECEIVED
 OCT 21 1987
 BONDAR-CLEGG

cc: Rob

file: 281

Central District
Cord

Assay: Cu, Ag, Au
To BSL

Sheet 1 of 1
Lab Code 8710-013

RECORD OF SAMPLE TRANSMITTAL

NORANDA EXPLORATION COMPANY, LIMITED
P.O. BOX 2380
1050 DAVIE STREET
VANCOUVER, B.C.
V6B 3T6

Date Shipped: _____
Date Received: SEP 20/87
Shipped Via: Bus
No. of Cartons: 1
No. of Samples: 6
Geologist: R Baerg
Date: Sept 24/87

MATERIAL:
 SOIL
 SILT
 ROCK (core)

Project Todd Cr No. 281
NTC-87-4

SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT			SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT		
FROM/LINE	TO/STATION			FROM/LINE	TO/STATION		FROM/LINE	TO/STATION			FROM/LINE	TO/STATION	
16142	46.50-47.71												
43	47.71-49.71												
44	49.71-51.46												
45	51.46-53.96												
46	53.96-56.46												
16147	56.46-58.52												

Rush!!

ANALYTICAL INSTRUCTIONS

ALL SAMPLES: (Cu, Pb, Zn, Mo, Ag)
 (Cu, Pb, Zn, Mo, Ag) + _____ + _____
 (Cu, Pb, Zn, Mo, Ag) + AS NOTED

RESULTS TO: Prince George

SPECIAL INSTRUCTIONS OR REMARKS:
Au, Ag, Cu Assay
(Bondar - Clegg)



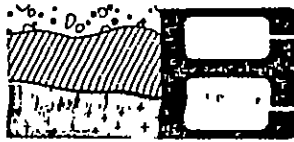
REPORT: 427-8189

PROJECT: 281

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au GMT	Ag GMT	Cu PCT	
D2 16155		1.47	<0.7	0.09	5
D2 16164		0.55	<0.7	0.02	
D2 16165		<0.07	<0.7	0.01	
D2 16166		<0.07	<0.7	0.02	
D2 16167		<0.07	<0.7	0.01	
D2 16168		0.45	<0.7	0.06	
D2 16169		0.65	<0.7	0.05	
D2 16170		0.75	<0.7	0.12	
D2 16171		<0.07	<0.7	0.01	
D2 16172		0.17	<0.7	0.37	
D2 16173		5.97	1.0	0.68	1.5m
D2 16174		0.41	<0.7	0.48	
D2 16175		0.17	<0.7	0.04	
D2 16176		0.27	<0.7	0.03	
D2 16177		0.93	<0.7	0.03	
D2 16178		0.10	<0.7	0.01	50.77 - 51.77 51.77 - 52.77 52.77 - 53.77 53.77 - 55.32 1.5m
D2 16179		0.21	<0.7	0.03	
D2 16180		0.45	<0.7	0.04	
D2 16181		<0.07	<0.7	0.03	
D2 16182		0.17	<0.7	0.06	
D2 16183		<0.07	<0.7	0.08	1.73m
D2 16184		<0.07	<0.7	0.02	
D2 16185		<0.07	0.7	0.02	
D2 16186		11.93	3.4	1.50	

[Handwritten Signature]



8710-011

REPORT: 127-8189

NTC 89-5,6
 GORROR (RBS)

PROJECT: 281

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Ag PPM	Au PPB
---------------	---------------	--------	--------	--------

D2 16148		191	0.8	<5
D2 16149		109	0.3	<5
D7 16150		62	0.2	<5
D7 16151		150	1.6	140
D2 16152		29	0.2	<5

D2 16153		320	0.1	<5
D2 16154		195	0.2	<5
D2 16156		131	0.1	<5 *
D2 16157		92	<0.1	10
D2 16158		62	0.2	<5

D2 16159		15	<0.1	<5
D2 16160		82	0.1	<5 *
D2 16161		28	<0.1	<5
D2 16162		5	0.2	<5
D2 16163		51	<0.1	<5

D2 16187		580	0.7	20
D2 16188		82	0.5	10
D2 16189		59	0.6	5
D2 16190		39	0.4	<5
D2 16191		16	0.2	<5

D2 16192	*	265	<0.1	150
D2 16193		9	0.1	<5
D2 16194		6	0.1	<5
D2 16195		24	0.1	<5
D2 16196		1550	<0.1	100

D2 16197		92	0.2	<5
D2 16198		19	<0.1	<5
D2 16199		84	<0.1	<5
D2 16200		11	<0.1	<5
D2 16201		33	<0.1	<5

D2 16202		61	0.1	5
D2 16203		52	0.1	<5
D2 16204		20	<0.1	<5
D2 16205	*	5	<0.1	<5

Handwritten annotations: A large bracket on the right side of the table groups samples D2 16148 through D2 16191, with a '5' written next to it. Another large bracket groups samples D2 16192 through D2 16205, with a '6' written next to it. There are also asterisks (*) next to several rows (D2 16156, D2 16160, D2 16192, D2 16205).

Central District
Card

RECORD OF SAMPLE TRANSMITTAL

Lab Code _____

NORANDA EXPLORATION COMPANY, LIMITED
P.O. BOX 2380
1050 DAVIE STREET
VANCOUVER, B.C.
V6B 3T5

Date Shipped: Sept 26/87
Date Received: _____
Shipped Via: Bus
No. of Cartons: 3
No. of Samples: 21/54
Geologist: R. Baerg
Date: Sept 26/87

MATERIAL:
 SOIL
 SILT
 ROCK (core)

Project Todd Cr No. 281

SAMPLE NOS / COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT	SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT
FROM/LINE	TO/STATION				FROM/LINE	TO/STATION			
16	185	55.36-57.09	} Assay		16	204	18.31-19.81	} Geochem	
86		57.09-58.59			05		19.81-21.31		
87		58.59-60.09	} Geochem						
88		60.09-61.59							
89		61.59-63.09							
90		63.09-64.59							
91		64.59-66.45							
<p><u>NTC-87-5</u> ↗</p> <hr/> <p><u>NTC-87-6</u></p>									
16	192	0.00-3.0	} Geochem						
93		3.0-4.5							
94		4.5-6.0							
95		6.0-6.87							
96		6.87-7.81							
97		7.81-9.31							
98		9.31-10.81							
99		10.81-12.31							
200		12.31-13.81							
01		13.81-15.31							
02		15.31-16.81							
03		16.81-18.31							

ANALYTICAL INSTRUCTIONS

ALL SAMPLES: (Cu, Pb, Zn, Mo, Ag)
(Cu, Pb, Zn, Mo, Ag) + _____
(Cu, Pb, Zn, Mo, Ag) + AS NOTED

SPECIAL INSTRUCTIONS OR REMARKS:

Au, Ag, Cu Assay or Geochem as noted (Bondar - Clegg)

RESULTS TO: Prince George

Central and District

Geoch or Hwy. U1149, 114
to B/C

Sheet 1 of 1

Lab Code 8710-011

54 Cores
57

RECORD OF SAMPLE TRANSMITTAL

NORANDA EXPLORATION COMPANY, LIMITED
P.O. BOX 2380
1050 DAVIE STREET
VANCOUVER, B.C.
V6B 3T5

Date Shipped: ?
Date Received: Sept. 30/87
Shipped Via: Bus
No. of Cartons: _____
No. of Samples: 33/54
Geologist: R. Berg
Date: Sept 24/87

MATERIAL:
 SOIL
 SILT
 ROCK (core)

Project Todd Cr No. 281
NTC-87-5

SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT	SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT		
FROM/LINE	TO/STATION				FROM/LINE	TO/STATION					
16148	.3 - 2.62	} Geochem			16172	42.39 - 43.77	} Assay				
49	2.62 - 5.12				73	43.77 - 44.27					
50	5.12 - 7.32				74	44.27 - 44.77					
51	7.32 - 9.32				75	44.77 - 45.77					
52	9.32 - 10.82				76	45.77 - 46.77					
53	10.82 - 12.32				77	46.77 - 47.77					
54	12.32 - 14.17				78	47.77 - 48.77					
55	14.17 - 15.37	} Assay			79	48.77 - 49.77					
56	15.37 - 16.61				80	49.77 - 50.77					
57	16.61 - 18.26										
58	18.26 - 20.26										
59	20.26 - 22.26										
60	22.26 - 24.26										
61	24.26 - 26.26										
62	26.26 - 28.26	} Geochem			INCLUDED BUT NOT LISTED (LAB)						
63	28.26 - 30.39										
64	30.39 - 31.89										
65	31.89 - 33.39										
66	33.39 - 34.89										
67	34.89 - 36.39										
68	36.39 - 37.89				} Assay						
69	37.89 - 39.39										
70	39.39 - 40.89										
16171	40.89 - 42.39										

ANALYTICAL INSTRUCTIONS
ALL SAMPLES: ~~(Cu, Pb, Zn, Mo, Ag)~~
(Cu, Pb, Zn, Mo, Ag) + ___ + ___
(Cu, Pb, Zn, Mo, Ag) + AS NOTED
RESULTS TO: Prince George

SPECIAL INSTRUCTIONS OR REMARKS:
Cu, Au, Ag Assay or
(Bondar-clegg) Geochem
as noted



REPORT: 427-8593

PROJECT: 281

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au GHT	Ag GHT	Cu PCT
D2-16211		<0.07	<0.7	<0.01
D2-16212		<0.07	<0.7	<0.01
D2-16213		<0.07	<0.7	<0.01
D2-16214		<0.07	<0.7	<0.01
D2-16215		<0.07	<0.7	<0.01
D2-16216		<0.07	<0.7	<0.01
D2-16217		<0.07	<0.7	<0.05
D2-16218		<0.07	<0.7	<0.01
D2-16219		<0.07	<0.7	<0.01
D2-16220		<0.07	<0.7	<0.01
D2-16221		<0.07	<0.7	<0.01
D2-16222		2.23	<0.7	<0.37
D2-16223		0.31	<0.7	0.19
D2-16224		0.41	<0.7	0.08
D2-16225		0.10	<0.7	0.03
D2-16226		0.40	<0.7	0.02
D2-16227		0.82	<0.7	0.04
D2-16228		3.53	0.7	0.54



8710-030

REPORT: 127-8593

Todd Co (RB)

PROJECT: 281

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	CU PPM	Ag PPM	AU PPM
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NOTE 8710

02-16206		23	<0.1	5
02-16207		17	<0.1	5
02-16208		6	<0.1	5
02-16209		9	<0.1	5
02-16210		11	<0.1	20

7/10 86 2P

Central Cord District
23 Cores

Geochem Assay:
Cu, Ag, Au to B₁L

Sheet 1 of 1
Lab Code 87/0-030

RECORD OF SAMPLE TRANSMITTAL

NORANDA EXPLORATION COMPANY, LIMITED
P.O. BOX 2380
1050 DAVIE STREET
VANCOUVER, B.C.
V6B 3T5

Date Shipped: ?
Date Received: Oct. 07/87
Shipped Via: Bus
No. of Cartons: 2 (LAB!)
No. of Samples: 23
Geologist: R. Baer
Date: Sept 28/87

MATERIAL:
 SOIL
 SILT
 ROCK (core)

Project Todd Cr No. 281

SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT			SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT		
FROM/LINE	TO/STATION			FROM/LINE	TO/STATION		FROM/LINE	TO/STATION			FROM/LINE	TO/STATION	
16	21.31-23.81												
07	23.81-25.31												
08	25.31-26.81												
09	26.81-28.31												
10	28.31-29.86												
11	29.86-31.36												
12	31.36-32.86												
13	32.86-34.36												
14	34.36-35.86												
15	35.86-37.36												
16	37.36-38.36												
17	38.36-39.36												
18	39.36-40.36												
19	40.36-41.36												
20	41.36-42.36												
21	42.36-43.66												
22	43.66-44.46												
23	44.46-45.56												
24	45.56-46.56												
25	46.56-47.56												
26	47.56-48.83												
27	48.83-49.60												
28	49.60-50.10												

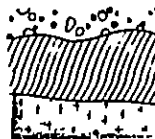
Geochem NTC-87-6

Assay Rush!

ANALYTICAL INSTRUCTIONS: ALL SAMPLES: (Cu, Pb, Zn, Mo, Ag) (Cu, Pb, Zn, Mo, Ag) + (Cu, Pb, Zn, Mo, Ag) + AS NOTED

SPECIAL INSTRUCTIONS OR REMARKS: Au, Ag, Cu Assay by Geochem as noted (Bondar-Clegg)

RESULTS TO: Prince George



REPORT: 427-8735

PROJECT: 281

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au GMT	Ag GMT	Cu PCT	SAMPLE NUMBER	ELEMENT UNITS	Au GMT	Ag GMT	Cu PCT
D2 16279		<0.07	<0.7	0.04	D2 20141		10.05	1.0	0.31
D2 16230		<0.07	<0.7	<0.01	D2 20142		5.38	0.7	0.09
D2 20064		0.07	<0.7	<0.01	D2 20143		5.07	2.7	0.20
D2 20065		<0.07	<0.7	<0.01					
D2 20066		<0.07	<0.7	0.01					
D2 20067		<0.07	<0.7	<0.01					
D2 20068		<0.07	<0.7	0.01					
D2 20069		0.10	<0.7	0.03					
D2 20070		0.07	<0.7	0.10					
D2 20071		0.07	<0.7	0.05					
D2 20072		0.07	<0.7	0.04					
D2 20073		<0.07	<0.7	<0.01					
D2 20074		<0.07	<0.7	0.01					
D2 20075		<0.07	<0.7	0.01					
D2 20076		0.14	<0.7	0.01					
D2 20077		7.89	1.0	0.38					
D2 20078		0.10	<0.7	0.01					
D2 20079		0.21	<0.7	0.02					
D2 20080		0.51	7.2	0.04					
D2 20081		0.10	<0.7	<0.01					
D2 20082		<0.07	1.4	<0.01					
D2 20083		0.10	<0.7	0.05					
D2 20084		0.21	<0.7	0.10					
D2 20085		4.01	0.7	0.23					
D2 20086		0.07	<0.7	<0.01					
D2 20126		<0.07	<0.7	<0.01					
D2 20127		0.07	0.7	0.07					
D2 20128		<0.07	<0.7	<0.01					
D2 20129		<0.07	<0.7						
D2 20130		<0.07	2.7						
D2 20131		<0.07	5.1	0.03					
D2 20132		<0.07	0.7	0.04					
D2 20133		<0.07	<0.7	0.13					
D2 20134		<0.07	<0.7	<0.01					
D2 20135		<0.07	<0.7	0.01					
D2 20136		0.07	<0.7	0.04					
D2 20137		0.07	<0.7	<0.01					
D2 20138		1.13	<0.7	0.02					
D2 20139		7.30	0.7	0.26					
D2 20140		11.69	1.4	0.48					

Handwritten notes and calculations:

- Group 1 (D2 16279-20066): Total Au = 1.0, Ag = 1.0, Cu = 0.31
- Group 2 (D2 20067-20071): Total Au = 0.38, Ag = 0.7, Cu = 0.09
- Group 3 (D2 20072-20076): Total Au = 0.57, Ag = 2.7, Cu = 0.20
- Group 4 (D2 20077-20081): Total Au = 13.27, Ag = 11.6, Cu = 0.84
- Group 5 (D2 20082-20086): Total Au = 4.50, Ag = 1.4, Cu = 0.23
- Group 6 (D2 20126-20130): Total Au = 0.07, Ag = 2.7, Cu = 0.07
- Group 7 (D2 20131-20135): Total Au = 11.69, Ag = 5.1, Cu = 0.04
- Group 8 (D2 20136-20140): Total Au = 21.23, Ag = 1.4, Cu = 0.48

Handwritten signature: *C. J. ...*



NTC 87-6.7

8710-048

REPORT: 127-8735

Total Co (RB)

PROJECT: 281

PAGE: 2

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Ag PPM	Au PPB	SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Ag PPM	Au PPB
D2 16231		23	<0.1	20	D2 20094		1	0.1	<5
D2 16232		17	0.1	15	D2 20095		7	0.1	<5
D2 16233		6	0.1	<5	D2 20096		15	0.1	<5
D2 16234		3	<0.1	<5	D2 20097		10	0.1	10
D2 16235		1	0.1	<5	D2 20098		5	0.1	<5
D2 16236		22	0.1	130	D2 20099		2	0.1	<5
D2 16237		2	<0.1	<5	D2 20100		27	0.1	<5
D2 16238		2	<0.1	<5	D2 20101		24	0.1	65
D2 16239		5	<0.1	20	D2 20102		6	0.1	<5
D2 16240		23	0.1	<5	D2 20103		54	<0.1	10
D2 16241		77	<0.1	580	D2 20104		14	0.1	<5
D2 16242		8	<0.1	20	D2 20105		67	0.1	<5
D2 16243		19	<0.1	<5	D2 20106		88	<0.1	15
D2 16244		20	0.1	<5	D2 20107		11	0.1	<5
D2 16245		156	<0.1	100	D2 20108		6	0.1	<5
D2 16246		1300	<0.1	260	D2 20109		3	<0.1	<5
D2 16247		635	<0.1	50	D2 20110		4	0.1	<5
D2 16248		205	<0.1	<5	D2 20111		2	<0.1	<5
D2 16249		89	<0.1	<5	D2 20112		2	<0.1	<5
D2 16250		56	0.1	<5	D2 20113		4	<0.1	<5
D2 20051		58	0.1	<5	D2 20115		6	<0.1	<5
D2 20052		6	<0.1	<5	D2 20116		181	<0.1	110
D2 20053		7	0.1	<5	D2 20117		11	<0.1	<5
D2 20054		136	0.1	<5	D2 20118		2	0.1	<5
D2 20055		30	0.1	<5	D2 20119		2	0.1	<5
D2 20056		250	0.2	95	D2 20120		44	<0.1	<5
D2 20057		30	0.2	10	D2 20121		525	0.2	30
D2 20058		113	0.8	40	D2 20122		460	0.2	15
D2 20059		127	0.5	<5	D2 20123		32	0.2	<5
D2 20060		8	0.1	<5	D2 20124		81	0.1	<5
D2 20061		23	0.1	<5	D2 20125		29	0.1	15
D2 20062		13	0.1	<5	D2 20144		34	<0.1	<5
D2 20063		45	0.1	<5	D2 20145		79	<0.1	<5
D2 20087		39	<0.1	<5	D2 20146		14	<0.1	<5
D2 20088		45	<0.1	<5	D2 20147		158	0.1	<5
D2 20089		4	<0.1	<5	D2 20148		44	0.1	<5
D2 20090		7	0.1	<5	D2 20149		17	<0.1	<5
D2 20091		7	0.1	<5	D2 20150		14	<0.1	<5
D2 20092		2	<0.1	<5					
D2 20093		2	<0.1	<5					

Central Cold District

Assay/Geoch: Cu, Ag, Au

Lab Code 8710-048

122 Cores

RECORD OF SAMPLE TRANSMITTAL

NORANDA EXPLORATION COMPANY, LIMITED
 P.O. BOX 2380
 1050 DAVIE STREET
 VANCOUVER, B.C.
 V6B 3T5

Date Shipped: Oct 5/87
 Date Received: Oct. 15/87
 Shipped Via: Bus
 No. of Cartons: 9+1
 No. of Samples: 66
 Geologist: R. Baerly
 Date: Oct 2/87

MATERIAL: P
 SOIL
 SILT
 ROCK (core)

Project Todd Cr. No. 281

SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT	SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT						
FROM/LINE	TO/STATION				FROM/LINE	TO/STATION									
NTC-87-6					16250	13.47-14.97									
16229	50.10-51.34	} Assay			20051	14.97-16.47	} Geochem								
30	51.34-52.84				52	16.47-17.97									
31	52.84-54.34				53	17.97-19.47									
32	54.34-55.84				54	19.47-20.97									
33	55.84-57.34				55	20.97-22.71									
34	57.34-58.84	} Geochem			56	22.71-24.21	} Geochem								
35	58.84-60.34				57	24.51-25.71									
36	60.34-61.84				58	25.71-27.21									
37	61.84-63.34				59	27.21-28.47									
38	63.34-64.84				60	28.47-29.97									
39	64.84-66.45	} Assay			61	29.97-31.47	} Assay								
					62	31.47-32.97									
NTC-87-7					} Geochem						63	32.97-34.66	} Assay		
16240	0.00-2.00										64	34.66-36.16			
41	2.00-3.50										65	36.16-37.66			
42	3.50-5.00	66	37.66-39.16												
43	5.00-6.50	67	39.16-40.66												
44	6.50-7.68	} Assay			68	40.66-42.16	} Assay								
45	7.68-8.68				69	42.16-43.66									
46	8.68-9.68				70	43.66-45.16									
47	9.68-10.68				71	45.16-46.66									
48	10.68-11.97				72	46.66-48.16									
49	11.97-13.47			20073	48.16-49.66										

ANALYTICAL INSTRUCTIONS

ALL SAMPLES: (Cu, Pb, Zn, Mo, Ag)
 (Cu, Pb, Zn, Mo, Ag) + +
 (Cu, Pb, Zn, Mo, Ag) + AS NOTED

SPECIAL INSTRUCTIONS OR REMARKS:
Au, Ag, Cu Assay or Geochem
as noted.
(Bondar-clegg)

RESULTS TO: Prince George

Central District
Coast

RECORD OF SAMPLE TRANSMITTAL

NORANDA EXPLORATION COMPANY, LIMITED
P.O. BOX 2380
1050 DAVIE STREET
VANCOUVER, B.C.
V6B 3T5

Date Shipped: Oct 5/87
Date Received: _____
Shipped Via: Bus
No. of Cartons: 9
No. of Samples: 66
Geologist: R. Baerg
Date: Oct 4/87

MATERIAL:
 SOIL
 SILT
 ROCK (core)

Project Todd Cr. No. 281

SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT	SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT
FROM/LINE	TO/STATION				FROM/LINE	TO/STATION			
<u>NTC-87-7</u>									
<u>20074</u>	<u>49.66-51.16</u>		} <u>Assay</u>						
<u>75</u>	<u>51.16-52.66</u>								
<u>76</u>	<u>52.66-53.44</u>								
<u>77</u>	<u>53.44-54.04</u>								
<u>78</u>	<u>54.04-55.04</u>								
<u>79</u>	<u>55.04-56.04</u>								
<u>80</u>	<u>56.04-57.04</u>								
<u>81</u>	<u>57.04-58.04</u>								
<u>82</u>	<u>58.04-59.04</u>								
<u>83</u>	<u>59.04-60.04</u>								
<u>84</u>	<u>60.04-60.98</u>		} <u>Geochem</u>						
<u>85</u>	<u>60.98-62.48</u>								
<u>86</u>	<u>62.48-64.00</u>								
<u>87</u>	<u>64.00-65.50</u>								
<u>88</u>	<u>65.50-67.00</u>								
<u>89</u>	<u>67.00-68.50</u>								
<u>90</u>	<u>68.50-70.00</u>								
<u>91</u>	<u>70.00-71.50</u>								
<u>92</u>	<u>71.50-72.52</u>								
<u>93</u>	<u>72.52-74.02</u>								
<u>20094</u>	<u>74.02-75.59</u>								

Rush!!

ANALYTICAL INSTRUCTIONS

ALL SAMPLES: (Cu, Pb, Zn, Mo, Ag)
(Cu, Pb, Zn, Mo, Ag) + _____
(Cu, Pb, Zn, Mo, Ag) + AS NOTED

SPECIAL INSTRUCTIONS OR REMARKS:

Au, Ag, Cu Assay of Geochem as noted (Bondar-Clegg)

RESULTS TO: Prince George

Central District
Card.

RECORD OF SAMPLE TRANSMITTAL

Lab Code _____

NORANDA EXPLORATION COMPANY, LIMITED
P.O. BOX 2380
1050 DAVIE STREET
VANCOUVER, B.C.
V6B 3T6

Date Shipped: Oct 8/87
Date Received: _____
Shipped Via: Bus
No. of Cartons: 5 + 2
No. of Samples: 56
Geologist: R. Baerg
Date: Oct 7/87

MATERIAL:
 SOIL
 SILT
 ROCK (core)

Project Todd Cr No. 281
NTC-87-8

SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT		SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT	
FROM/LINE	TO/STATION			FROM/LINE	TO/STATION	FROM/LINE	TO/STATION				
20095	0.0 - 2.50	}					20119	37.13 - 38.63	}		
96	2.50 - 4.0						20	38.63 - 39.59			
97	4.0 - 5.5						21	39.59 - 41.09			
98	5.5 - 7.0						22	41.09 - 42.49			
99	7.0 - 8.5						23	42.49 - 43.99			
100	8.5 - 10.52						24	43.99 - 45.49			
1	10.52 - 12.02						25	45.49 - 46.11			
2	12.02 - 13.52						26	46.11 - 47.11			
3	13.52 - 14.63						27	47.11 - 48.11			
4	14.63 - 16.13						28	48.11 - 49.11			
5	16.16 - 17.63	29	49.11 - 50.11	}							
6	17.63 - 19.13	30	50.11 - 51.11								
7	19.13 - 20.63	31	51.11 - 52.11								
8	20.63 - 22.13	32	52.11 - 53.11								
9	22.13 - 23.63	33	53.11 - 54.11								
10	23.63 - 25.13	34	54.11 - 55.11								
11	25.13 - 26.63	35	55.11 - 56.11								
12	26.63 - 28.13	36	56.11 - 57.11								
13	28.13 - 31.13	37	57.11 - 58.11								
14	Missing	38	58.11 - 58.92								
15	31.13 - 32.63	39	58.92 - 59.92	}							
16	32.63 - 34.13	40	59.92 - 60.92								
17	34.13 - 35.63	41	60.92 - 61.92								
20118	35.63 - 37.13	20142	61.92 - 62.92								

ANALYTICAL INSTRUCTIONS: ALL SAMPLES: (Cu, Pb, Zn, Mo, Ag) (Cu, Pb, Zn, Mo, Ag) + _____ (Cu, Pb, Zn, Mo, Ag) + AS NOTED

SPECIAL INSTRUCTIONS OR REMARKS: Au, Ag, Cu Assay or Geochem as noted (Bondur-Clegg)

RESULTS TO: Prince George

Central District
cond.

RECORD OF SAMPLE TRANSMITTAL

NORANDA EXPLORATION COMPANY, LIMITED
P.O. BOX 2380
1050 DAVIE STREET
VANCOUVER, B.C.
V6B 3T5

MATERIAL:

- SOIL
- SILT
- ROCK (ore)

Date Shipped: Oct 8/87
Date Received: _____
Shipped Via: Bus
No. of Cartons: 5
No. of Samples: 56
Geologist: R. Baerg
Date: Oct 8/87

Project Todd Cr. No. 281
NTC-87-8

SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT	SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT
FROM/LINE	TO/STATION				FROM/LINE	TO/STATION			
20143	62.92	64.26	Assay						
44	64.26	65.76							
45	65.76	67.26		Geochem					
46	67.26	68.76							
47	68.76	70.26							
48	70.26	71.76							
49	71.76	73.26							
50	73.26	75.59							

ANALYTICAL INSTRUCTIONS

ALL SAMPLES: (Cu, Pb, Zn, Mo, Ag)
 (Cu, Pb, Zn, Mo, Ag) + ___ + ___
 (Cu, Pb, Zn, Mo, Ag) + AS NOTED

RESULTS TO: Prince George

SPECIAL INSTRUCTIONS OR REMARKS:
Au, Ag, Cu Assay, or Geochem as noted.
(Bondar-Clegg)



9

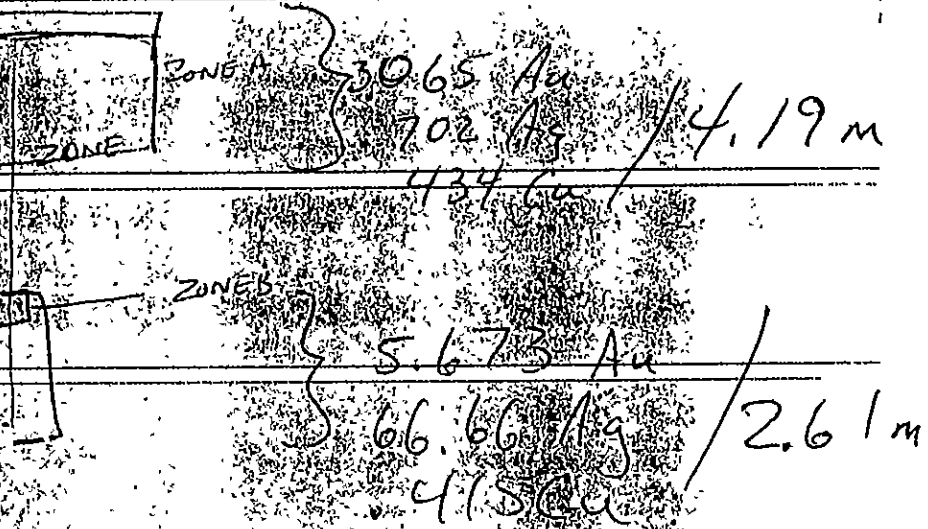
REPORT: 427-8745

PROJECT: 281

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au GHT	Ag GHT	Cu PCT
---------------	---------------	--------	--------	--------

D2-20200		1.71	<0.7	0.11
D2-20201		1.21	<0.7	0.07
D2-20202		1.61	<0.7	0.50
D2-20203		0.38	<0.7	0.10
D2-20204		5.49	<1.0	0.28
D2-20205		0.21	<0.7	0.03
D2-20206		0.27	<0.7	0.07
D2-20207		0.10	<0.7	0.07
D2-20208		8.16	<1.0	0.57
D2-20209		0.72	<0.7	0.10
D2-20210		1.89	<0.7	0.18



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3.5

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REPORT: 127-8745

NTC 87-9
 Todd Cr (RA)

PROJECT: 281

PAGE 1

8710-050

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Ag PPM	Au PPB	SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Ag PPM	Au PPB
D2 20151		17	0.1	10	D2 20191		17	0.1	<5
D2 20152		4	<0.1	<5	D2 20192		19	0.1	<5
D2 20153		6	0.1	<5	D2 20193		4	0.2	<5
D2 20154		19	0.1	<5	D2 20194		4	<0.1	20
D2 20155		19	0.1	5 *	D2 20195		3	0.1	5
D2 20156		66	0.1	5	D2 20196		10	<0.1	20
D2 20157		115	<0.1	<5	D2 20197		79	<0.1	25
D2 20158		215	<0.1	10	D2 20198		97	0.1	15
D2 20159		182	0.2	35	D2 20199		500	0.2	70
D2 20160		66	0.1	440	D2 20211		179	<0.1	10
D2 20161		6	0.1	<5	D2 20212		465	<0.1	15
D2 20162		7	0.1	<5	D2 20213		47	0.1	<5
D2 20163		68	0.1	<5	D2 20214		54	<0.1	<5
D2 20164		102	0.1	<5	D2 20215		215	0.1	15
D2 20165		8	0.1	<5	D2 20216		90	0.1	<5
D2 20166		12	0.1	<5	D2 20217		42	0.2	10
D2 20167		10	0.1	<5	D2 20218		9	0.1	<5
D2 20168		270	0.1	<5					
D2 20169		102	0.1	<5					
D2 20170		100	0.1	1350					
D2 20171		210	<0.1	60					
D2 20172		68	<0.1	<5					
D2 20173		67	0.1	<5					
D2 20174		148	2.2	<5					
D2 20175		9	0.2	<5					
D2 20176		64	0.1	<5					
D2 20177		114	0.3	<5					
D2 20178		280	0.3	90					
D2 20179		18	<0.1	<5					
D2 20180		14	<0.1	<5					
D2 20181		34	0.1	20					
D2 20182		470	<0.1	10					
D2 20183		5800	<0.1	190					
D2 20184		240	0.8	20					
D2 20185		88	0.8	40					
D2 20186		7	0.1	10					
D2 20187		18	0.2	<5					
D2 20188		28	<0.1	<5					
D2 20189		47	<0.1	<5					
D2 20190		174	1.8	110					

Central District
Coed
68 Cores

Array/Geoch: Cu, Ag, Au
206 1/2
RECORD OF SAMPLE TRANSMITTAL

Lab Code 8710-050

NORANDA EXPLORATION COMPANY, LIMITED
P.O. BOX 2380
1050 DAVIE STREET
VANCOUVER, B.C.
V6B 3T5

Date Shipped: Oct 13/87
Date Received: Oct 16/87
Shipped Via: Freightways
No. of Cartons: 5
No. of Samples: 68
Geologist: R. Baerg
Date: Oct 10/87

MATERIAL:

- SOIL
 SILT
 ROCK

(P)

Project Todd Cr. No. 281
NTC-87-9

SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT	SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT
FROM/LINE	TO/STATION				FROM/LINE	TO/STATION			
20151	0.0 - 1.5				20175	35.17 - 36.67			
52	1.5 - 3.0				76	36.67 - 38.47			
53	3.0 - 4.5				77	38.47 - 39.57			
54	4.5 - 6.0				78	39.57 - 41.53			
55	6.0 - 7.21				79	41.53 - 43.03			
56	7.21 - 8.71				80	43.03 - 45.17			
57	8.71 - 10.21				81	45.17 - 47.78			
58	10.21 - 11.27				82	47.78 - 48.91			
59	11.27 - 12.77				83	48.91 - 49.91			
60	12.77 - 14.27				84	49.91 - 50.91			
61	14.27 - 15.77				85	50.91 - 52.10			
62	15.77 - 17.27				86	52.10 - 53.60			
63	17.27 - 18.77				87	53.60 - 55.10			
64	18.77 - 20.27				88	55.10 - 56.60			
65	20.27 - 21.77				89	56.60 - 58.10			
66	21.77 - 23.27				90	58.10 - 59.60			
67	23.27 - 24.69				91	59.60 - 61.10			
68	24.69 - 26.19				92	61.10 - 62.60			
69	26.19 - 27.69				93	62.60 - 64.45			
70	27.69 - 29.17				94	64.45 - 65.90			
71	29.17 - 30.67				95	65.90 - 66.90			
72	30.67 - 32.17				96	66.90 - 67.90			
73	32.17 - 33.67				97	67.90 - 68.90			
74	33.67 - 35.17				98	68.90 - 69.90			

Geochem

Geochem

ANALYTICAL INSTRUCTIONS

- ALL SAMPLES (Cu, Pb, Zn, Mo, Ag)
(Cu, Pb, Zn, Mo, Ag) + ___ + ___
(Cu, Pb, Zn, Mo, Ag) + AS NOTED

RESULTS TO: Prince George

SPECIAL INSTRUCTIONS OR REMARKS:

Au, Ag, Cu Assay or geochem as noted (Bondar-Clegg)

Central District
Cord.

RECORD OF SAMPLE TRANSMITTAL

NORANDA EXPLORATION COMPANY, LIMITED
P.O. BOX 2380
1050 DAVIE STREET
VANCOUVER, B.C.
V6B 3T5

Date Shipped: Oct 13/87
Date Received: _____
Shipped Via: Freightways
No. of Cartons: 5
No. of Samples: 68
Geologist: R. Baerg
Date: Oct 10/87

MATERIAL:
 SOIL
 SILT
 ROCK (core)

Project Todd Cr No. 281
NTC -87-9

SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT	SAMPLE NOS./COORDS.		N.T.S. NOS.	G.C.I. NOS.	ADD ELEMENT
FROM/LINE	TO/STATION				FROM/LINE	TO/STATION			
2000	69.90								
20199	69.90-70.97								
200	70.97-71.47								
01	71.47-72.47								
02	72.47-73.47								
03	73.47-74.47								
04	74.47-75.16								
05	75.16-76.16								
06	76.16-77.16								
07	77.16-78.29								
08	78.29-79.09								
09	79.09-80.09								
10	80.09-80.90								
11	80.90-82.40								
12	82.40-83.90								
13	83.90-85.40								
14	85.40-86.90								
15	86.90-88.40								
16	88.40-89.90								
17	89.90-91.40								
18	91.40-92.96								

Geochem

Assay

Geochem

ANALYTICAL INSTRUCTIONS

ALL SAMPLES: (Cu, Pb, Zn, Mo, Ag)
(Cu, Pb, Zn, Mo, Ag) + ___ + ___
(Cu, Pb, Zn, Mo, Ag) + AS NOTED

SPECIAL INSTRUCTIONS OR REMARKS:

Au, Ag, Cu Assay on Geochem as noted.
(Bondar-Clegg)

RESULTS TO: Prince George

PROPERTY Todd Creek (S. Zone) (Knob Zone)

N.T.S. 104 A/4
 DATE Aug 16/87
 PROJECT 281

ROCK SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G	A	G	A	G	A	G	A	SAMPLED BY
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
86760	silic volc bx with jasper - py	5	grab	float									RB
86761	calc. lc gtz horn - py - cpj bx cobble, 1-2% horn, 1-2% py, + cpj	12	grab	float									RB
86764	gtc - cc altered volc with 1.5 mm gtc sth. wk vein, locally, 1-2% cpj	12	grab	float									RB
86769	gtc - ser - py alt volc with 1-10 cm wide gtz - py seams	10	grab	comp									RB
86770	as for 86769	10	grab	comp									RB
86771	as for 86769	5-7	grab	comp									RB
86772	as for 86769	10	grab	comp									RB
86773	as for 86769	5-7	grab	comp									RB
86774	as for 86769	5-7	grab	comp									RB

G = GEOCHEM A = ASSAY

PROPERTY Todd Creek (Knob Zone)

N.T.S. 104 A/4

DATE Aug 16

ROCK SAMPLE REPORT

PROJECT 281

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G	A	G	A	G	A	G	A	G	A	G	A	SAMPLED BY
86775	as for 86769	10	grab	comp													RB
80976	as for 86769	5-8	grab	comp													RB
80977	as for 86769	8-10	grab	comp													RB
80978	as for 86769	8-10	grab	comp													RB
80979	as for 86769	8-10	grab	comp													RB
80980	as for 86769	8-10	grab	comp													RB
80981	as for 86769	8-10	grab	comp													RB
80982	banded jasper-hematite boulder, tr py 10-15% hcm	tr	grab	float													RB
80983	several 1-10cm Qtz-bx-py veins tr mal	5-7	grab	comp													RB
80984	10-50cm wide cc-bx veins with local cpy +1-chalocite	tr	grab	comp													RB

PROPERTY Todd Creek (N. Zone)

N.T.S. 104 A/5

DATE Aug 18/87

ROCK SAMPLE REPORT

PROJECT: 281

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G	A	G	A	G	A	G	A	G	A	SAMPLED BY
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
87526	Trench 2, resample of sample 55458, gtz-chl-hem-py-cpy bx 15cm	5	chip	.3m	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									RB
87527	Trench 2, resample of sample 55460, as for 87526	5-7	ch.p	1.1m	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									RB
87528	gtz-py-cpy-cpy 15cm and 1m	3-5	grab comp		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									RB
87529	Trench 1, resample of sample 55464, as for 87526	5-7	ch.p	.6m	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									RB
87530	Trench 1, resample of sample 55465 as for 87526	10	ch.p	2m	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									RB
87531	as for 87526	5	ch.p	.3m	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									RB
87532	as for 87526	5-7	ch.p	2m	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									RB
87533	grab of gtz-hem-chl-py-cpy bx vein material from Hole 2	2-3	grab comp		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									RB
87534	as for 87533, Hole 2	2-3	grab comp		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									RB

N.T.S. 104 A/4
 DATE Sept 2/87
 PROJECT 281

PROPERTY Todd Creek #281
 South Zone **ROCK SAMPLE REPORT**

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G	A	G	A	G	A	G	A	G	A	SAMPLED BY
					<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
81000	v.f.g mass. py and f.-mcd g spec. hcm in a cherty, silic volc, tr cpy, 10-20% hcm	30	grab	float	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RB
87535	gtz-chl-py alt lbl-fs pmph with a 5cm gtz-cc-cpy-hcm bx urcn	1	grab	float	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RB
87536	semi-mass py-cpy in a silic manoon-icd hcm matrix ~ 3-5% cpy	35	grab	float	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RB
87537	gtz-py + l-hcm-cpy bx urcn along 022/65w shrau	5-10	grab	comp	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RB

PROPERTY Todd Creek (S. Zone)

N.T.S. 104A/4

DATE Sept 6/87

ROCK SAMPLE REPORT

PROJECT: 281

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G	A	G	A	G	A	G	A	G	A	SAMPLED BY
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
9251	gtz-cc tl-chl-py alt hbl- fs pmpk, local gtz-hem tl- cpy veins from 1mm to 10cm . Trench 21					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							RB
52	as for 9251, veins from 1mm - 1cm	tr-1	chip	1m		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>							RB
9253	a. for 9252	tr-1	chip	1m		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							RB
9254	as for 9252	tr-1	chip	1m		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							RB
9255	as for 9252	tr-1	chip	1m		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>							RB
9256	as for 9252	tr-1	chip	1m		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							RB
9257	as for 9252	tr-1	chip	1m		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							RB

PROPERTY Todd Creek (S. Zone)

N.T.S. 104 A/4

DATE Sept 2/87

ROCK SAMPLE REPORT

PROJECT 281

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G	A	G	A	G	A	G	A	SAMPLED BY
					As	Ag	Cu						
9258	gtc- <u>tbl</u> alt <u>bl</u> to <u>prph</u> with local 1-2cm gtc-lm- cp veins (Trench 21)	tr 1	ch p	1m	✓	—	—						RB
9259	as for 9258 (Trench 21)	tr 1	ch p	1m	✓	—	—						RB
9260	as for 9258, abundant gtc cp veins and base 1-2cm veins 15% cp (Trench 21)	1 &	ch p	27m	✓	—	—						RB
9261	as for 9258, 5-10% cp at base of vein Trench 22	tr 1	ch p	3m	✓	—	—						RB
9262	as for 9258, 3-5% cp vein	tr 1	ch p	1m	✓	—	—						RB
9263	as for 9258, 12-15% cp vein	tr 1	ch p	1m	✓	—	—						RB
9264	as for 9258, 5-7% cp vein	tr 1	ch p	1m	✓	—	—						RB
9265	as for 9258, 2-5% cp vein	tr 1	ch p	1m	✓	—	—						RB
9266	as for 9258, 12-15% cp vein	tr 1	ch p	1m	✓	—	—						RB

Trench
23A

PROPERTY Todd Creek (S Zone)

N.T.S. 104 A/4

DATE Sept 8/87

ROCK SAMPLE REPORT

PROJECT 281

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G	A	G	A	G	A	G	A	G	A	SAMPLED BY
					Au	Ag	Cu								
9267	as for 9258, 7-10% vein Trench 23A	~1	chip	15m	✓	✓	-								RB
9268	as for 9258, 5% vein Trench 23B	~1	chip	1m	-	-	-								RB
9269	as for 9258, 20% vein Trench 23B	1-2	chip	6m	✓	-	-								RB
9270	as for 9258, 7-10% vein Trench 23B	~1	chip	12m	✓	✓	-								RB
9271	as for 9258, 20% vein Trench 23C	2	chip	1m	-	-	-								RB
9272	as for 9258, 10-12% vein Trench 23C	1	chip	1m	-	-	-								RB
9273	as for 9258, 8-10% vein Trench 23C	5-1	chip	13m	✓	-	-								RB
9274	as for 9258, 12-15% vein Trench 23D	~1	chip	1m	✓	-	-								RB
9275	as for 9258, 17-5% vein Trench 23D	~1	chip	11m	-	-	-								RB

PROPERTY Todd Creek (S. Zone)

N.T.S. 104 A / 4

DATE Sept 7/87

ROCK SAMPLE REPORT

PROJECT 281

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G	A	G	A	G	A	G	A	G	A	SAMPLED BY
					Au	Ag	Cu								
9276	qtz-chl- ⁺ ser alt hbl-fs porph with local .1-2cm qt-horn re-cryst veins ~57% vein (Trench 25)	+1	chip	.8m	✓	✓	-								RB
9277	as for 9276 ~25% vein (Trench 25)	12	chip	1m	✓	-	-								RB
9278	as for 9276 ~30% vein (Trench 25)	-2	chip	1m	✓	-	-								RB
9279	qtz-hbl-fs and ls by qt-horn ~10% bx vein horn re-cryst infilling (Trench 25)	16	chip	1m	✓	✓	-								RB
9280	as for 9279 (Trench 25)	12	chip	1m	✓	-	-								RB
9281	slc ser - fract hbl-fs porph with abundant .1-1cm qt-horn re- +1-cry vein ~10% vein (Trench 25)	+1	chip	1m	✓	-	-								RB

NORANDA EXPLORATION COMPANY, LIMITED

PROPERTY Todd Cr (S. Zone)

N.T.S. 104 A/4

DATE Sept 12/87

ROCK SAMPLE REPORT

PROJECT 281

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G	A	G	A	G	A	G	A	SAMPLED BY
					Au	Ag	Cu						
9282	1 red gta+hll-f ₂ punch bx local min. red gta-hem-ssr - p/1 5-10% gta-bx (Trench 26)	tr	ch p	1m	✓	✓	-						RB
9283	a. loc 9282 gta-hem-ssr bx + 2 hem. - 25-20% h. bx 5-10% gta v (Trench 26)	tr	ch s	1m	-	-	-						RB
9284	a. loc 9282 10-15% gta-bx 10% gta v (Trench 26)	tr	ch p	1m	✓	-	-						RB
9285	a. loc 9284 (Trench 26)	tr	ch p	1m	-	-	-						RB
9286	a. loc 9284 (Trench 26)	tr	ch p	1m	✓	-	-						RB
9287	abl f-rough calc. - gta-hll 1 red min. gta-hem-ssr v 3-5% gta v (Trench 27)	tr	ch p	1m	-	-	-						RB
9288	a. loc 9287 1-3% gta-hll - rpy bx v 10-15% gta v (Trench 27)	tr	ch s	1m	-	-	-						RB
9289	a. loc 9287 1% gta v (Trench 27)	tr	ch p	1m	✓	-	-						RB
9290	a. loc 9287 1-2% gta v (Trench 27)	tr	ch p	1m	-	-	-						RB
9291	a. loc 9287 2% gta v (Trench 27)	tr	ch p	1m	-	-	-						RB

PROPERTY Todd Cr (S Zinc)

N.T.S. 104 A/H

DATE Sept 14/67

ROCK SAMPLE REPORT

PROJECT 281

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G	A	G	A	G	A	G	A	SAMPLED BY
					Au	Ag	Cu						
9292	a. l. 9287 8-107 gts. v (Trench 27)	tr	cl. s	1m	-	-	-						RB
9293	a. l. 9287 2.37 gts. v (Trench 27)	-	cl. s	1m	-	-	-						RB
9294	a. l. 9287 3-7 gts. v (Trench 27)	-	cl. s	1m	-	-	-						RB
9295	a. l. 9287 2-2 gts. v (Trench 27)	-	cl. s	1m	-	-	-						RB
9296	a. l. 9287 3-1 gts. v (Trench 27)	-	cl. s	1m	-	-	-						RB
9297	a. l. 9287 2-2 gts. v (Trench 27)	tr	cl. s	1m	-	-	-						RB
9298	a. l. 9287 3-1 gts. v (Trench 27)	-	cl. s	1m	-	-	-						RB
9299	a. l. 9287 3-5 gts. v (Trench 27)	-	cl. s	1m	-	-	-						RB
9300	a. l. 9287 3-7 gts. v (Trench 27)	tr	cl. s	1m	-	-	-						RB
9301	a. l. 9287 3-7 gts. v (Trench 27)	-	cl. s	1m	-	-	-						RB
9302	a. l. 9287 2-37 gts. v (Trench 27)	-	cl. s	1m	-	-	-						RB

NORANDA EXPLORATION COMPANY, LIMITED

PROPERTY Todd Cr (3 zone)

N.T.S. 104 A/4

DATE Sept. 2/37

ROCK SAMPLE REPORT

PROJECT 281

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G	A	G	A	G	A	G	A	SAMPLED BY
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
9303	a. l. 9287 2-37 ₂ gtz ✓ (Trench 27)	tr	ch. p	1m	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RB
9304	a. l. 9287 5-107 ₂ gtz ✓ (Trench 27)	tr	ch. p	1m	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RB
9305	a. l. 9287 3-57 ₂ gtz ✓ (Trench 27)	tr	ch. p	.8m	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RB
9306	a. l. 9287 12-157 ₂ gtz ✓ (Trench 11 Extension)	tr	ch. p	1m	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RB
9307	a. l. 9287 2-37 ₂ gtz ✓ (Trench 11 Extension)	-	-	-	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RB
9308	a. l. 9287 1-107 ₂ gtz ✓ (Trench 11 Extension)	+	ch. p	1m	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RB
9309	a. l. 9287 12-107 ₂ gtz ✓ (Trench 11 Extension)	+	ch. p	1m	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RB
9310	a. l. 9287 3-107 ₂ gtz ✓ (Trench 11 Extension)	-	ch. p	1m	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RB
9311	a. l. 9287 3-57 ₂ gtz ✓ (Trench 11 Extension)	tr	ch. p	.9m	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RB

N.T.S. 104A/4

PROPERTY Todd Creek (S. Zone)

DATE Sept 15/87

ROCK SAMPLE REPORT

PROJECT 221

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G	A	G	A	G	A	G	A	SAMPLED BY
					Au	Ag	Cu						
9312	Hornblende - Feldspar porphyry chl-scc-hornalt. with local .1-.3 cm gt. v (Trench 13 Extra) ~ 170 gt. v	tr	ch.p	.9m	✓	✓	✓						RB
9313	a.s. for 9312 - 1.270 gt. v (Trench 13 Extra)	tr	ch.p	1m	✓	✓	✓						RB
9314	a.s. for 9312 - 2.310 gt. v (Trench 13 Extra)	tr	ch.p	1m	✓	✓	✓						RB
9315	a.s. for 9312 - 3.310 gt. v (Trench 13 Extra)	tr	ch.p	1m	✓	✓	✓						RB
9316	Qtz-horn - sp / pl - pl, bx v, .1-.570 sp / (Trench 13 resample 15171)	5	ch.p	9m	✓	✓	✓						RB
9317	Hbl - Fz - pr. uk, chl. v small, 10-150 gt. horn. v v (Trench 13 resample 15171)	.1-.5	ch.p	1m	✓	✓	✓						RB
9318	a.s. for 9317 10-150 gt. horn v (Trench 13 resample 15171)	.1-2	ch.p	1m	✓	✓	✓						RB
9319	a.s. for 9317, 15-20% gt. v (resample Trench 13 15170)	.1-2	ch.p	1m	✓	✓	✓						RB
9320	a.s. for 9317, 15-20% gt. v (Trench 13, resample 15170)	.1-2	ch.p	1.2m	✓	✓	✓						RB

PROPERTY Todd Creek (S zone)

N.T.S. 104A/4

DATE Sept 15/87

ROCK SAMPLE REPORT

PROJECT 281

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G	A	G	A	G	A	G	A	SAMPLED BY
					<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
					Au	Ag	Cu						
9321	Mixed gtz-hem rpy v stkk breccia and tbl-fs pmp h bx .1-.370 cpj 40-50% gtz and bx v (Trench 29)	1-2	chip	1m	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						R B
9322	as for 9321 20-25% gtz v and bx v .1-.270 cpj	.5-1	chip	1m	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						R B
9323	as for 9321 50-60% gtz v and bx v .3-.570 cpj	1-2	chip	1m	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						R B
9324	as for 9321 30-40% gtz v and bx v .1-.370 cpj	.5-1	chip	1.5m	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						R B

NORANDA EXPLORATION COMPANY, LIMITED

PROPERTY Todd Creek (S. Zone)

N.T.S. 104A/4

DATE Sept 16/87

ROCK SAMPLE REPORT

PROJECT 281

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G	A	G	A	G	A	G	A	G	A	SAMPLED BY
					<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
					Au	Ag	Cu								
9325	Hbl-Fs porph. gtz-scr-chl alt, 3-5% gtz (Trench 1)	tr	chip	1m	✓	✓	✓								RB
9326	u.s. fr. 9325, 3-5% gtz	tr	chip	1m	✓	✓	✓								RB
9327	u.s. fr. 9325, 15-20% gtz, 1-10cm gtz bx	1	chip	1m	✓	✓	✓								RB
9328	u.s. fr. 9325, 8-10% gtz	tr	chip	1m	✓	✓	✓								RB
9329	u.s. fr. 9325, 3-5% gtz	tr	chip	1m	✓	✓	✓								RB
9330	u.s. fr. 9325, 1-2% gtz	tr	chip	1m	✓	✓	✓								RB
9331	u.s. fr. 9325, 2-3 "	tr	chip	1m	✓	✓	✓								
9332	u.s. fr. 9325, 2-3 "	tr	chip	1m	✓	✓	✓								
9333	u.s. fr. 9325, 1-2 "	tr	chip	1m	✓	✓	✓								
9334	u.s. fr. 9325, 1-2 "	tr	chip	1m	✓	✓	✓								
9335	u.s. fr. 9325, 1-2 "	tr	chip	1m	✓	✓	✓								
9336	u.s. fr. 9325, 2-3 "	tr	chip	1m	✓	✓	✓								
9337	u.s. fr. 9325, 3-5 "	tr	chip	1m	✓	✓	✓								

APPENDIX V

Drill core is stored at the camp.

NORANDA EXPLORATION COMPANY LIMITED)
(NO PERSONAL LIABILITY)

D.D.H. #

DATE COLLARED:
Sept. 6, 1987

DATE COMPLETED:
Sept. 9, 1987

CORE SIZE: NQ

PROPERTY: TODD CREEK

N.T.S. # 104 A/04

FIELD CO-ORDINATES:

LAT: 9982.5E
DEP: 9831.6N

PROJECT: 281

PAGE 1 OF 2

DIP: -45
BEARING: 100

HOLE NO: NTC - 87- 1

ELEV: 1050 m.
LENGTH: 48.2 m. (157 feet)

FROM (m)	TO (m)	REC (%)	DESCRIPTION	STRUCTURE m/deg. WCA	% SULPH	SAMPLE NO.	INTERVAL (m)	WIDTH (m)	ANALYTICAL RESULTS								
									AU	AS	CU	PB	ZN				
0	1.22	0	OVERBURDEN														
1.22	8.81	75	HORNBLende-FELDSPAR PORPHYRY light to medium green-grey-purple, fine to medium grained, pervasively chl +/- silic-ser-hem-cc altered, chl has replaced all hbl-fs grains; locally mod. to str. silic. and bleaching; local cc-qtz bx veins zones sub-parallel to CA; local 1.1 to 1cm qtz-cc-hem +/- cpy veins, locally offset by cc-qtz bx; local dissem grains and patches of spec. hem to 2mm; 1-2% qtz veining.	1cm qtz-cc-hem v 12.1m/35 deg. cc-qtz bx zone 13.6m/0 deg. 12mm qtz-hem v. 15.5m/65 deg. 11mm qtz-cc-hem- 1cpy v. 6.6m/70 deg.	trace	16001 16002 16003	1.22-4.22 4.22-7.22 7.22-8.81	13.00 13.00 11.59	0.07 0.07 0.07	0.7 0.7 0.7	0.01 0.01 0.01						
8.81	12.54	95	IAS FOR 1.22-8.81 M: str. qtz-hem-cc-cpy veining, veins locally show crustiform banding of qtz-hem-cc, tr. 2% cpy; 25-30% qtz veining.	1qtz-hem-cc-cpy v 10.81-8.84m/45 d 19.18-9.28m/70 d 19.39-9.44m/55 d 112.36-12.38/50 d 112.52-12.54/70 d 1qtz-hem-cc-cpy stockwork 19.50-9.73m/65 d 19.85-10.23m/50 d 110.67-10.8m/65 d 111.16-11.68m/40- 160 deg 111.71-11.84m/70	1-2 %	16004 16005 16006	8.81-10.24 10.24-11.87 11.87-12.54	11.43 11.63 10.67	0.72 0.45 0.07	0.7 0.7 0.7	0.03 0.03 0.01						
12.54	14.99	96	IAS FOR 1.22-8.81M: 1-2% quartz veining.	1qtz-hem-ser-cpy 1v 13.61-13.64m/ 160 deg	trace	16007 16008	12.54-14.04 14.04-14.99	11.50 10.95	0.07 0.07	0.7 0.7	0.01 0.01						

NORANDA EXPLORATION COMPANY, LIMITED)
(NO PERSONAL LIABILITY)

D.D.H. #

DATE COLLARED:
Sept. 11, 1987

DATE COMPLETED:
Sept. 13, 1987

CORE SIZE: NQ

PROPERTY: TODD CREEK

N.T.S. # 104 A/84

FIELD CO-ORDINATES:

LAT: 9976.3E
DEP: 9967.4N

PROJECT: 281

PAGE 1 OF 2

DIP: -45
BEARING: 100

HOLE NO: NTC - 87-2

ELEV: 1060 m.
LENGTH: 45.72 m. (150 feet)

FROM (m)	TO (m)	REC (#)	DESCRIPTION	STRUCTURE m/deg. WCA	%	SAMPLE NO.	INTERVAL (m)	WIDTH (m)	ANALYTICAL RESULTS									
									AU g/t	AG g/t	CU g/t	PB g/t	ZN g/t					
0	2.74	0	OVERBURDEN															
2.74	14.54	83	HORNBLende-FELDSPAR PORPHYRY: Pale green-brown to medium brown; moderate to strong chl-ser +/- si alteration, pale green sections are strong sercite altered; moderate to strong silic.; local 2-10 cm qtz-hem- ser-cpy v. and bx v., local irregular qtz-cc bx zones; approx 2% qtz v.	Qtz-hem-cpy v. 15.16-5.21m/75 d Hem-volc-ser bx: 17.72-7.79m/75 d Qtz-hem-ser-cpy 18.33-8.35m/45 d 110.28-10.38m/65 d 112.35-12.37m/70 d	trace	16031 16032 16033 16034 16035 16036 16037 16038	2.74-5.50 5.50-7.00 7.00-8.50 8.50-10.00 10.00-10.50 10.50-12.00 12.00-13.50 13.50-14.54	2.76 1.50 1.50 1.50 0.50 1.50 1.50 1.04	0.82 0.07 0.07 0.07 0.82 0.07 0.07 0.07	0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.10 0.09 0.05 0.03 0.03 0.04 0.01 0.02							
14.54	18.84		STRINGER ZONE															
14.54	17.82	99	HORNBLende-FELDSPAR PORPHYRY: Bleached, pale green-brown; strong chl-ser-si alteration, chl after hbl-fs moderate to strong silic.; strong bx with ser-qtz filling fractures, local volc-qtz-hem-ser +/- cpy bx zones to 123 cm wide, 10-12% qtz v.	Qtz-hem-ser- lcpy v.: 14.98-14.99m/75 d 15.11-15.14m/65 d 15.84-16.34m/55 d 17.68-17.69m/50 d	trace	16039 16040	14.54-16.04 16.04-17.82	1.50 1.78	0.45 0.17	0.7 0.7	0.03 0.01							
17.82	21.56	93	HORNBLende-FELDSPAR PORPHYRY: Pale green-brown to medium brown; locally bleached-ser zones; strong qtz-hem-cpy +/- ser v. and bx v., 112-15% qtz v.	Qtz-cc bx v.: 18.11-18.20m/40 d Qtz-hem: 18.49-18.54m/50 d 19.02-19.03m/40 d 19.27-19.39m/60 d 20.10-20.13m/70 d 20.16-20.17m/85 d	1-5%	16041 16042 16043 16044	17.82-18.82 18.82-19.82 19.82-20.82 20.82-21.56	1.00 1.00 1.00 0.74	0.31 0.85 0.34 0.10	0.7 0.7 0.7 0.7	0.03 0.05 0.08 0.01							
21.56	28.84	98	HORNBLende-FELDSPAR PORPHYRY: Pale green-grey-brown; fine grained; strong ser-chl alteration, local weak silic; local fracture zones with qtz- hem-cc +/- cpy filling the fractures, 11% qtz v.	Qtz-hem-ser-cpy 121.62-21.67m/55 d 122.69-22.71m/50 d 123.68-23.74m/50 d 125.28-25.52m/70 d 126.76-26.77m/60 d 128.56-28.57m/60 d	trace to .2%	16045 16046 16047 16048 16049 16050 16051	21.56-22.56 22.56-23.56 23.56-24.56 24.56-25.56 25.56-26.56 26.56-27.56 27.56-28.84	1.00 1.00 1.00 1.00 1.00 1.00 1.28	0.51 0.24 0.24 0.17 0.55 0.17 0.10	0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.04 0.01 0.02 0.01 0.01 0.01 0.01							

NORANDA EXPLORATION COMPANY, LIMITED)
(NO PERSONAL LIABILITY)

D.D.H. #

DATE COLLARED:
Sept. 13, 1987

DATE COMPLETED:
Sept. 16, 1987

CORE SIZE: NQ

PROPERTY: TODD CREEK

N.T.S. # 104 A/04

FIELD CO-ORDINATES:

LAT: 9976.3E
DEP: 9967.4N

PROJECT: 281

PAGE 1 OF 2

DIP: -65
BEARING: 100

HOLE NO: NTC - 87-3

ELEV: 1060 m.
LENGTH: 51.21m (168 feet)

FROM (m)	TO (m)	REC (X)	DESCRIPTION	STRUCTURE m/deg. WCA	% SULPH	SAMPLE NO.	INTERVAL (m)	WIDTH (m)	ANALYTICAL RESULTS								
									AU gmt	AB ppb	CU gmt	PB ppm	ZN gmt	PPM %			
0	1.22	0	OVERBURDEN														
1.22	21.30	97	HORNBLende-FELDSPAR PORPHYRY: [Pale green to medium brown; chl-ser +/- lcp v; lsi altered, section is marked by alter- nating brown and pale green bleached zones; local str. hairline fractures with qtz-cc-ser; local irregular qtz-cc- ltx zones; qtz-hem +/- ser-cpy veins locur throughout, with stronger stringer zones from 3.57-8.55m, 10.96-13.87m, 17.41-19.50m, veins predominantly occur in pale green bleached zones, 3-5% qtz lv. overall.	Qtz-cc-ser-hem- 13.57-3.91m/40 15.69-5.73m/60 18.53-8.65m/45 10.96-10.48m/45 11.05-11.16m/45 13.86-13.87m/50 17.41-17.46m/45 19.23-19.25m/50 19.35-19.42m/45	trace	16066 16067 16068 16069 16070 16071 16072 16073 16074 16075 16076 16077 16078 16079 16080 16081 16082	1.22-2.50 2.50-3.50 3.50-4.00 4.00-5.50 5.50-7.00 7.00-8.50 8.50-9.00 9.00-10.50 10.50-11.50 11.50-12.50 12.50-14.00 14.00-15.50 15.50-17.00 17.00-18.10 18.10-19.10 19.10-19.60 19.60-21.30	1.26 1.00 0.50 1.50 1.50 1.50 1.50 1.50 1.00 1.00 1.50 1.50 1.10 1.00 1.50 1.70	0.07 0.07 0.02 0.14 0.07 0.07 0.45 0.07 0.34 0.07 0.10 0.07 0.07 0.72 0.07 0.51 0.07	0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.01 0.01 0.06 0.01 0.01 0.02 0.06 0.02 0.01 0.01 0.02 0.01 0.01 0.01 0.02 0.01 0.01						
21.30	31.56	100	HORNBLende-FELDSPAR PORPHYRY: [Pale green-light brown, bleached; str. ser-chl-si alteration; local irregular loc-qtz bx patches; local .1-12cm qtz- hem-ser-cpy v. throughout, 21.30-25.30 lis strongly fractured with 10-20% qtz- hem-cpy v. and qtz-hem stockwork, 8-10% qtz v. overall.	Qtz-hem-ser-cpy v 121.77-21.87m/45 121.91-21.97m/45 122.02-22.06m/50 122.46-22.53m/60 122.71-22.83m/45	trace to .5%	16083 16084 16085 16086 16087 16088 16089 16090	21.30-22.30 22.30-23.30 23.30-24.30 24.30-25.30 25.30-26.00 26.00-28.30 28.30-29.60 29.60-31.56	1.00 1.00 1.00 1.00 1.50 1.50 1.50 1.75	3.12 1.03 0.17 0.14 0.07 0.07 0.07 0.07	0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.11 0.12 0.01 0.01 0.01 0.01 0.01 0.01						
31.56	40.32	99	QUARTZ AND HORNBLende-FELDSPAR PORPHYRY: [BRECCIA: Pale green, strongly ser-si- ltx altered, chl altered hbl-fs grains ltx 2mm, strongly fractured-bx; fragments to 5cm; abundant irregular qtz-ser-hem-cpy stockwork v. and local lsi flooding; local qtz-cc v. and bx; several qtz-hem-cpy-ser bx v. to 72cm; fractures are locally strongly weathered-oxidized; fault gouge at 39.00-39.03m.	Qtz-ser-hem-cpy ltx v; 132.40-32.77m/55 139.60-40.32m/50 Contact: 140.32m/50	.1-.3%	16091 16092 16093 16094 16095 16096 16097 16098 16099	31.56-32.00 32.00-34.00 34.00-35.00 35.00-36.00 36.00-37.00 37.00-38.00 38.00-39.00 39.00-39.60 39.60-40.32	1.24 1.20 1.00 1.00 1.00 1.00 1.00 0.60 0.72	2.26 0.07 0.07 0.63 0.21 0.07 0.07 0.07 5.86	0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 1.7	0.10 0.02 0.01 0.04 0.02 0.01 0.01 0.01 0.40						

NORANDA EXPLORATION COMPANY, LIMITED)
(NO PERSONAL LIABILITY)

D.D.H. #

DATE COLLARED:
Sept. 19, 1987

DATE COMPLETED:
Sept. 21, 1987

CORE SIZE: NQ

PROPERTY: TODD CREEK

N.T.S. # 104 A/84

FIELD CO-ORDINATES:

LAT: 9964.0E
DEP: 9927.5N

PROJECT: 281

PAGE 1 OF 2

DIP: -65
BEARING: 100

HOLE NO: NTC - 87-5

ELEV:
LENGTH: 66.45m (218 feet)

FROM (m)	TO (m)	REC (%)	DESCRIPTION	STRUCTURE m/deg. WCA	% SULPH	SAMPLE NO.	INTERVAL (m)	WIDTH (m)	ANALYTICAL RESULTS									
									AU gwt	AS ppb/gwt	CU ppm	PB %	ZN ppm					
0	0.30	0	OVERBURDEN															
0.30	2.62	88	HORNBLende-FELDSPAR PORPHYRY: Pale green-brown, cleached; medium to coarse grained, strongly chl-ser +/- sil altered, local qtz-cc +/- cpy v., locally fractured and silic., strongly weathered on fractures, 1% qtz v.		trace	16148	0.30- 2.62	2.32		(5)	0.8	191						
2.62	7.32	99	HORNBLende-FELDSPAR PORPHYRY: Medium green-grey, medium to coarse grained, flow banding strong chl-K? +/- ser-si altered, chl after hbl-fs grains to 3mm; local light grey bleached sections; strong weathering on fractures; 1% qtz v.	Flow Banding: 155 deg Qtz-hem-cpy bx v: 15.28m/60 deg	trace	16149	2.62- 5.12	2.50		(5)	0.3	109						
						16150	5.12- 7.32	2.20		(5)	0.2	62						
7.32	9.32	99	HORNBLende-FELDSPAR PORPHYRY: Light grey, medium grained, bleached strongly weathered on fractures, local qtz-hem v., qtz-cc v., strongly chl-si altered; local bx; 1-2% qtz v.		trace	16151	7.32- 9.32	2.00		140	1.6	150						
8.32	16.61	100	HORNBLende-FELDSPAR PORPHYRY: Fine to medium grained, flow banded, local hairline qtz-cc v. +/- cpy-hem, strongly chl altered, 3-5% qtz v., 2-3% cpy in the two qtz-chl-hem-cpy bx v.	Qtz-chl-hem-cpy l bx v: 14.17-14.34m/45 d 15.13-15.22m/60 d	trace	16152	9.32-10.82	1.50		(5)	0.2	29						
						16153	10.82-12.32	1.50		(5)	0.1	320						
						16154	12.32-14.17	1.85		(5)	0.2	195						
						16155	14.17-15.37	1.20	1.47	(6.7)	0.09							
						16156	15.37-16.61	1.24		(5)	0.1	131						
16.61	18.26	99	HORNBLende-FELDSPAR PORPHYRY: Pale green-grey, fine grained, strongly sil-ser +/- chl altered, local qtz-hem +/- cpy patches and narrow v., strongly fractured, strongly weathered on fractures, 1-2% qtz v.	Contact: 18.26m/40 deg	trace	16157	16.61-18.26	1.65		10	(0.1)	92						

NORANDA EXPLORATION COMPANY, LIMITED)
(NO PERSONAL LIABILITY)

D.D.H. #

DATE COLLARED:
Sept. 24, 1987

DATE COMPLETED:
Sept. 27, 1987

CORE SIZE: NQ

PROPERTY: TODD CREEK

N.T.S. # 104 A/04

FIELD CO-ORDINATES:

LAT: 9967E
DEP: 0059N

PROJECT: 281

PAGE 1 OF 2

DIP: -45
BEARING: 100

HOLE NO: NTC - 87-6

ELEV:
LENGTH: 66.45m (218 feet)

FROM (m)	TO (m)	REC (%)	DESCRIPTION	STRUCTURE m/deg. WCA	% SULPH	SAMPLE NO.	INTERVAL (m)	WIDTH (m)	ANALYTICAL RESULTS					
									AU g/t	AS g/t	CU ppm	PB %	ZN ppm	
0	6.87	80	HORNBLende-FELDSPAR PORPHYRY: Grey-green-brown, coarse grained, fs phenos to 5mm altered to chl, hbl grains to 2mm with ser rims, chl-ser altered; strongly weathered on fracture local hairline qtz-cc veins, (1% qtz v.)		trace	16192	0.00-3.00	13.80	150	0.1	265			
						16193	3.00-4.50	11.50	5	0.1	9			
						16194	4.50-6.00	11.50	5	0.1	6			
						16195	6.00-6.87	10.87	5	0.1	24			
6.87	7.81	99	HORNBLende-FELDSPAR PORPHYRY: bleached, si-chl-ser altered, local qtz hem-cpy v. to 3cm, strongly fractured with ser on fractures, approx 10% qtz v.		trace	16196	6.87-7.81	10.94	100	0.1	1550			
7.81	29.86	97	HORNBLende-FELDSPAR PORPHYRY: As for 0.0-6.87, locally bleached, locally strongly fractured and weathered, increased bleaching, fractures and qtz-cc v. toward bottom.		trace	16197	7.81-9.31	11.50	5	0.2	92			
						16198	9.31-10.81	11.50	5	0.1	19			
						16199	10.81-12.31	11.50	5	0.1	84			
						16200	12.31-13.81	11.50	5	0.1	11			
						16201	13.81-15.31	11.50	5	0.1	33			
						16202	15.31-16.81	11.50	5	0.1	61			
						16203	16.81-18.31	11.50	5	0.1	52			
						16204	18.31-19.81	11.50	5	0.1	20			
						16205	19.81-21.31	11.50	5	0.1	5			
						16206	21.31-23.81	12.50	5	0.1	23			
						16207	23.81-25.31	11.50	5	0.1	17			
						16208	25.31-26.81	11.50	5	0.1	6			
						16209	26.81-28.31	11.50	5	0.1	9			
						16210	28.31-29.86	11.55	20	0.1	31			
29.86	143.66	98	IPYRITE STRINGER ZONE HORNBLende-FELDSPAR PORPHYRY: Pale green-grey, bleached, moderate to strong silic, chl-ser altered, chl after hbl-fs grains to 2mm; numerous irregular qtz-cc v. and bx patches, abundant hairline to 5cm py +/- qtz v., local irregular py aggreg. in fracture areas; incr py v. toward bottom; matrix locally pink-brown, K alteration?, qtz- cc v. decrease toward bottom.	ipy stringers: 165-75 deg qtz-hem-cpy-py v: 137.49-37.59m/65 d 139.22-39.23m/65 d qtz-py v 139.49-39.54m/50 d	3-5 %	16211	29.86-31.36	11.50	0.07	0.7	0.01			
						16212	31.36-32.86	11.50	0.07	0.7	0.01			
						16213	32.86-34.36	11.50	0.07	0.7	0.01			
						16214	34.36-35.86	11.50	0.07	0.7	0.01			
						16215	35.86-37.36	11.00	0.07	0.7	0.01			
						16216	37.36-38.86	11.00	0.07	0.7	0.01			
						16217	38.86-39.36	11.00	0.07	0.7	0.05			
						16218	39.36-40.36	11.00	0.07	0.7	0.01			
						16219	40.36-41.36	11.00	0.07	0.7	0.01			
						16220	41.36-42.36	11.00	0.07	0.7	0.01			
						16221	42.36-43.66	11.30	0.07	0.7	0.01			

NORANDA EXPLORATION COMPANY, LIMITED)
(NO PERSONAL LIABILITY)

D.D.H. #

DATE COLLARED:
Sept. 28, 1987

DATE COMPLETED:
Sept. 30, 1987

CORE SIZE: N2

PROPERTY: TODD CREEK

N.T.S. # 104 A/04

FIELD CO-ORDINATES:

LAT: 9956.3E
DEP: 9959 N

PROJECT: 281

PAGE 1 OF 3

DIP: -65
BEARING: 100

HOLE NO: NTC - 87-7

ELEV:
LENGTH: 75.5m (248 feet)

FROM (m)	TO (m)	REC (%)	DESCRIPTION	STRUCTURE m/deg. WCA	% SULPH	SAMPLE NO.	INTERVAL (m)	WIDTH (m)	ANALYTICAL RESULTS					
									AU gmt	AS ppm	CU gmt	PB ppm	ZN gmt	PPM
0	7.68	87	HORNBLende-FELDSPAR PORPHYRY: Coarse grained, hbl-fs grains to 5mm altered to chl; siliceous, chl +/- ser altered, local hairline to 2mm frac- tures with qtz +/- cc filling; local fractures moderately weathered, local qtz-hem +/- cpy bx v. occur in narrow bleached si-chl-ser altered zones; 2-3% qtz-hem v.	Qtz-hem bx v: 13.09-3.22m/55 d	trace	16240	0.00-2.00	2.00	(5)	0.1	23			
						16241	2.00-3.50	1.50	58	0.1	77			
						16242	3.50-5.00	1.50	20	0.1	8			
						16243	5.00-6.50	1.50	(5)	0.1	9			
						16244	6.50-7.68	1.18	(5)	0.1	20			
7.68	11.97	100	HORNBLende-FELDSPAR PORPHYRY: bleached, silic, chl-ser altered; abundant qtz-hem-cpy-py and qtz-py- cpy v. from .1 to 4 cm, approx 5-7% qtz v. 1-2% cpy, 1% py.	Qtz-hem- cpy-py bx v: 18.26-8.30m/45 d 19.05-0.06m/45 d 19.41-9.43m/55 d	trace to 1%	16245	7.68-8.68	1.00	100	0.1	156			
						16246	8.68-9.68	1.00	260	0.1	1300			
						16247	9.68-10.68	1.00	50	0.1	635			
						16248	10.68-11.97	1.29	5	0.1	205			
11.97	22.71	99	HORNBLende-FELDSPAR PORPHYRY: As for 0-7.68; local narrow bleached zones surround .1-1 cm qtz-py v. hbl grains to 2mm weakly to moderately chl-ser altered; 1% qtz v.		trace	16249	11.97-13.47	1.50	(5)	0.1	89			
						16250	13.47-14.97	1.50	(5)	0.1	56			
						20051	14.97-16.47	1.50	(5)	0.1	58			
						20052	16.47-17.97	1.50	(5)	0.1	6			
						20053	17.97-19.47	1.50	(5)	0.1	7			
						20054	19.47-20.97	1.50	(5)	0.1	136			
						20055	20.97-22.71	1.74	(5)	0.1	30			
22.71	28.47	91	HORNBLende-FELDSPAR PORPHYRY: bleached, strongly weathered, pale green-grey-brown; silic, chl-ser altered; strongly fractured, local irregular qtz-chl v. to 1 cm, local qtz +/- py-cpy v to 2 cm, 2-3% qtz v.; ill after hbl-fs and on fractures in weathered zones.		trace to 1%	20056	22.71-24.21	1.50	95	0.2	250			
						20057	24.21-25.71	1.50	10	0.2	30			
						20058	25.71-27.21	1.50	40	0.8	113			
						20059	27.21-28.47	1.26	(5)	0.5	27			
28.47	34.66	99	HORNBLende-FELDSPAR PORPHYRY: As for 11.97-22.71, 1% qtz locally strongly fractured.	Flow Banding 150 deg	trace	20060	28.47-29.97	1.50	(5)	0.1	8			
						20061	29.97-31.47	1.50	(5)	0.1	23			
						20062	31.47-32.97	1.50	(5)	0.1	13			
						20063	32.97-34.66	1.69	(5)	0.1	5			

NORANDA EXPLORATION COMPANY, LIMITED)
(NO PERSONAL LIABILITY)

D.D.H. #

DATE COLLARED:
Oct. 2, 1987

DATE COMPLETED:
Oct. 5, 1987

CORE SIZE: NQ

PROPERTY: TODD CREEK

N.T.S. # 104 A/04

FIELD CO-ORDINATES:

LAT: 9960E
DEP: 9996.2N

PROJECT: 281

PAGE 1 OF 3

DIP: -45
BEARINGS: 100

HOLE NO: NTC - 87-8

ELEV: 1125 m
LENGTH: 75.59m (248 feet)

FROM (m)	TO (m)	REC (%)	DESCRIPTION	STRUCTURE m/deg. WCR	% SULPH	SAMPLE NO.	INTERVAL (m)	WIDTH (m)	ANALYTICAL RESULTS					
									AU gwt	AG ppm	CU %	PB ppm	ZN ppm	
8	10.52	89	HORNBLende-FELDSPAR PORPHYRY: |Medium-dark green, very fine to coarse |grained, local coarse grained fragments |in fine grained sections; moderate to |very silic, strong chl alteration of |hbl pheno's, grain size grades from |fine to coarse to fine from top to |bottom; local hairline Qtz-cc v; bottom |1.5m is strongly fractured & weathered.		nil	20095	0.00-2.50	12.50	51	0.11	71			
						20096	2.50-4.00	11.50	51	0.11	151			
						20097	4.00-5.50	11.50	101	0.11	101			
						20098	5.50-7.00	11.50	51	0.11	51			
						20099	7.00-8.50	11.50	51	0.11	21			
						20100	8.50-10.52	12.02	51	0.11	271			
10.52	14.63	100	HORNBLende-FELDSPAR PORPHYRY: |Bleached, pale green-grey, silic, fine |to medium grained; intense ser +/- chl |alteration of hbl-fs grains locally |creates speckled-mottled texture; local |intense hairline fractures with ser-Qtz; |local hairline to 5mm hem +/- Qtz v., |fract Qtz-py v. to .5mm; trace fine |grained disseminated py; matrix is a pale |brown-green-grey mixture of si-ser-chl.		trace	20101	10.52-12.02	11.50	651	0.11	241			
						20102	12.02-13.52	11.50	51	0.11	61			
						20103	13.52-14.63	11.11	101	0.11	541			
14.63	39.59	100	HORNBLende-FELDSPAR PORPHYRY: |Pale grey-green to dark green-brown, |in numerous narrow bleached sections as |for 10.52-14.63m; dark sections are |coarse grained, silic, chl +/- ser |altered with distinct flow? banding, |local sections have alternating light |ser altered bands to lca with dark |green-brown bands to 5cm, dark sections |locally contain 1-3% disseminated spec. hem. |grains to 2mm (after hbl?), fs grains |are altered to light green chl, local |hairline to 2mm Qtz-cc v; trace hem v. |in bleached sections; local Qtz-chl v, |local fractures are weakly to moderate- |ly weathered.	Hem-Qtz-py-cpy |bx v; |32.69-32.70m/60 d |Flow Banding |55 deg	trace	20104	14.63-16.13	11.50	51	0.11	141			
						20105	16.13-17.63	11.50	51	0.11	671			
						20106	17.63-19.13	11.50	151	0.11	881			
						20107	19.13-20.63	11.50	51	0.11	111			
						20108	20.63-22.13	11.50	51	0.11	61			
						20109	22.13-23.63	11.50	51	0.11	31			
						20110	23.63-25.13	11.50	51	0.11	41			
						20111	25.13-26.63	11.50	51	0.11	21			
						20112	26.63-28.13	11.50	51	0.11	21			
						20113	28.13-31.13	13.00	51	0.11	41			
						20115	31.13-32.63	11.50	51	0.11	61			
						20116	32.63-34.13	11.50	1101	0.11	1811			
						20117	34.13-35.63	11.50	51	0.11	111			
						20118	35.63-37.13	11.50	51	0.11	21			
						20119	37.13-38.63	11.50	51	0.11	21			
						20120	38.63-39.59	10.96	51	0.11	441			

PROPERTY: TODD CREEK

HOLE NO.: NTC-87-8

PAGE 2 of 3

FROM (m)	TO (m)	REC (%)	DESCRIPTION	STRUCTURE m/deg. WCA	% SULPH	SAMPLE NO.	INTERVAL (m)	WIDTH (m)	ANALYTICAL RESULTS					
									AU gmt	AG gmt	CU ppm	PB ppm	ZN ppm	
39.59	42.49	97	HORNBLende-FELDSPAR PORPHYRY: Pale brown-green, bleached, silic, ser- chl altered hbl-fs grains, local less altered dark brown sections; matrix is a pale brown with locally abundant fine grained pale yellow-green ser; local strong hairline fractures with ser; local qtz-hem +/- py-cpy v. to icm, 1-2% qtz-hem v, trace py-cpy.		trace	20121	39.59-41.09	1.50	80	0.21	525			
						20122	41.09-42.49	1.40	15	0.21	460			
42.49	45.11	100	HORNBLende-FELDSPAR PORPHYRY: As for 14.63-39.59m		trace	20123	42.49-43.99	1.50	5	0.21	32			
						20124	43.99-45.49	1.50	5	0.11	81			
						20125	45.49-46.11	0.62	15	0.11	29			
46.11	58.92	97	IPYRITE STRINGER ZONE: HORNBLende-FELDSPAR PORPHYRY: Bleached, silic, light grey-brown, si- ser +/- chl altered, local speckled texture due to ser after hbl-fs grains; intense fractures with hairline to icm pale yellow-white qtz-ser v; matrix is light brown to grey s-ser; local chl grains after hbl-fs; .1 to 1cm py +/- qtz-hem-cpy v. throughout, increase in hem content toward bottom; bottom of unit has irregular red hem patches; local fractures strongly weathered; 1-2% py, trace cpy.	Qtz-hem-cpy-py bx v; 147.45-47.55m/65 d Py veins; 60-70 deg	1-2 %	20126	46.11-47.11	1.00	0.07	0.7	0.01			
						20127	47.11-48.11	1.00	0.07	0.7	0.07			
						20128	48.11-49.11	1.00	0.07	0.7	0.01			
						20129	49.11-50.11	1.00	0.07	0.7	0.05			
						20130	50.11-51.11	1.00	0.07	2.7	0.05			
						20131	51.11-52.11	1.00	0.07	5.1	0.03			
						20132	52.11-53.11	1.00	0.07	0.7	0.04			
						20133	53.11-54.11	1.00	0.07	0.7	0.13			
						20134	54.11-55.11	1.00	0.07	0.7	0.01			
						20135	55.11-56.11	1.00	0.07	0.7	0.01			
						20136	56.11-57.11	1.00	0.07	0.7	0.04			
						20137	57.11-58.11	1.00	0.07	0.7	0.01			
						20138	58.11-58.92	0.81	1.13	0.7	0.02			
58.92	64.26	100	QUARTZ BRECCIA VEIN: Multiple phases of bx and banding; qtz varies from white to pale yellow to pink to maroon; local massive white qtz; with delicate red hem +/- chl-cpy banding; bottom 1.25m is int. bx, qtz fragments to 5cm in a pale yellow granular qtz matrix, cpy occurs as disseminated grains and patches to 5cm throughout, py predominately assoc with coarser cpy patches, 1-2% cpy, 1% py; local blocks of hbl-fs prop to 1cm within the vein(s); vein is locally cut by cc-qtz v. to 5cm.	Upper Contact: 58.92m/45 deg Bandings: 55-65 deg Lower Contact: 64.26m/65 deg	3-4 %	20139	58.92-59.92	1.00	7.30	0.7	0.26			
						20140	59.92-60.92	1.00	11.69	1.4	0.48			
						20141	60.92-61.92	1.00	10.05	1.0	0.31			
						20142	61.92-62.92	1.00	5.38	0.7	0.09			
						20143	62.92-64.26	1.34	5.07	2.7	0.20			
54.26	75.59	100	HORNBLende-FELDSPAR PORPHYRY: Pale grey-green, fine to medium grained with local coarse grained fragments to 10cm, hbl-fs grains altered to chl-ser,		trace	20144	64.26-65.76	1.50	5	0.11	34			
						20145	65.76-67.26	1.50	5	0.11	79			
						20146	67.26-68.76	1.50	5	0.11	14			
						20147	68.76-70.26	1.50	5	0.11	158			

NORANDA EXPLORATION COMPANY, LIMITED)
(NO PERSONAL LIABILITY)

D.D.H. #

DATE COLLARED:
Oct. , 1987

DATE COMPLETED:
Oct. 8, 1987

CORE SIZE: NQ

PROPERTY: TODD CREEK

N.T.S. # 104 A/84

FIELD CO-ORDINATES:

LAT: 9959.3E
DEP: 9996.2N

PROJECT: 281

PAGE 1 OF 3

DIP: -65
BEARINGS: 100

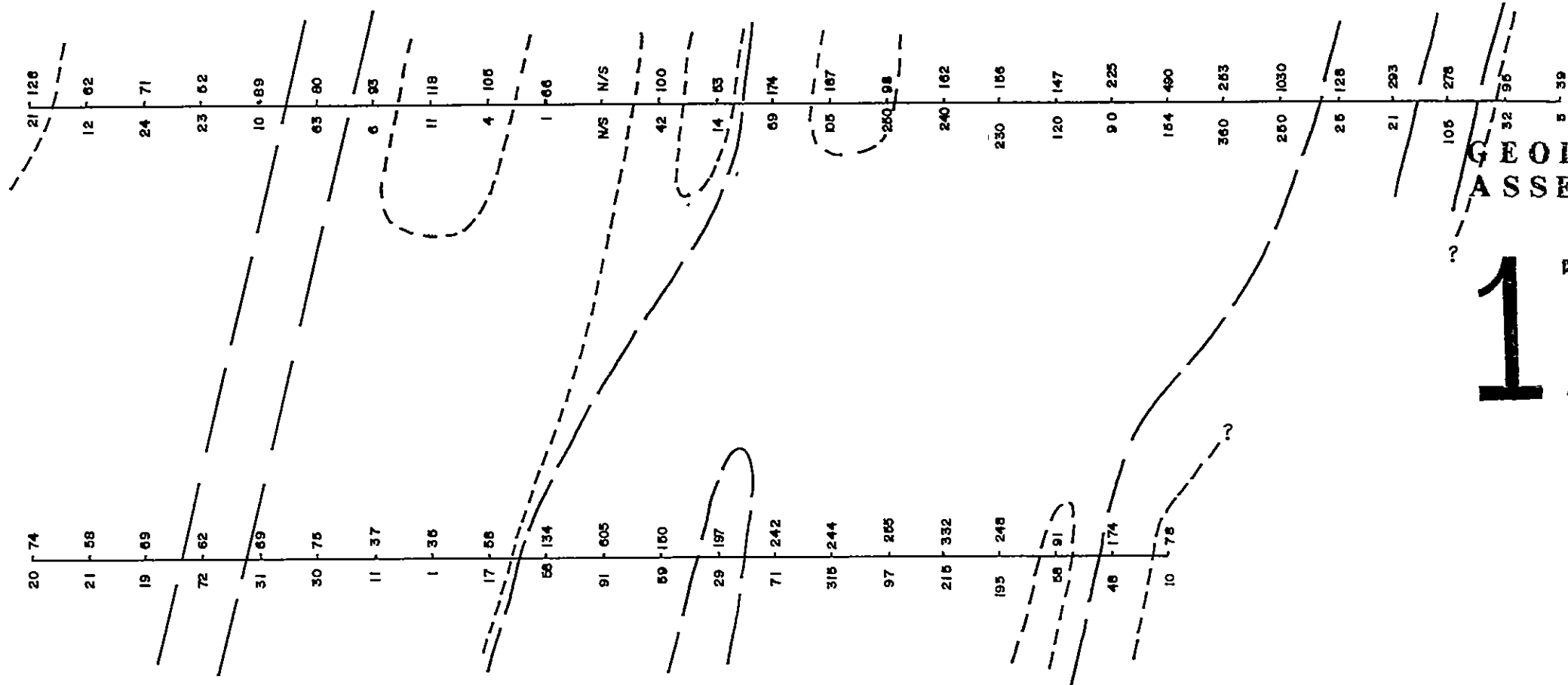
HOLE NO: NTC - 87-9

ELEV: 1125 m
LENGTH: 92.96m (305 feet)

FROM (m)	TO (m)	REC (%)	DESCRIPTION	STRUCTURE m/deg. MCA	%	SAMPLE NO.	INTERVAL (m)	WIDTH (m)	ANALYTICAL RESULTS						
									AU gwt	AG ppb	CU gwt	PB %	ZN ppm		
0	7.21	98	HORNBLende-FELDSPAR PORPHYRY: Medium to dark green, very fine to coarse grained, local coarse grain fragments in fine grained sections, moderate to very silic; strong chl altered of hbl and/or fs pheno's; local hairline qtz-cc v.		nil	20151	0.00- 1.50	1.50	10	0.1	17				
						20152	1.50- 3.00	1.50	5	0.1	4				
						20153	3.00- 4.50	1.50	5	0.1	6				
						20154	4.50- 6.00	1.50	5	0.1	19				
						20155	6.00- 7.21	1.21	5	0.1	19				
7.21	11.27	100	HORNBLende-FELDSPAR PORPHYRY: Bleached, medium-pale green-grey, fine fine to coarse grained, fs pheno's to 5mm; silic, chl-ser altered; local qtz- ser fractured v, local fractures int. weathered, weathered zone from 6.62- 18.50m has local narrow qtz +/- py-cpy v		trace	20156	7.21- 8.71	1.50	5	0.1	66				
						20157	8.71-10.21	1.50	5	0.1	115				
						20158	10.21-11.27	1.06	10	0.1	215				
11.27	24.69	99	HORNBLende-FELDSPAR PORPHYRY: Dark green-brown to pale grey-green; medium to coarse grained; local narrow bleached silic. zones with speckled- mottled textures; dark sections have 1-3% dissem spec. hem grains to 1mm and large chl-ser-si altered; local qtz-hem v to 2cm; local qtz-cc v to 4cm and local qtz-chl v. to 2cm; locally intense hairline fractures with qtz-ser.		trace	20159	11.27-12.77	1.50	35	0.2	182				
						20160	12.77-14.27	1.50	440	0.1	66				
						20161	14.27-15.77	1.50	5	0.1	6				
						20162	15.77-17.27	1.50	5	0.1	7				
						20163	17.27-18.77	1.50	5	0.1	60				
						20164	18.77-20.27	1.50	5	0.1	102				
						21065	20.27-21.77	1.50	5	0.1	8				
						20166	21.77-23.27	1.50	5	0.1	12				
						20167	23.27-24.69	1.42	5	0.1	10				
24.69	29.17	98	HORNBLende-FELDSPAR PORPHYRY: Bleached, silic, pale green-brown with local dark green-brown sections; int. hairline fractures and qtz-cc-ser v. with local hem; matrix is pale green- brown with abundant pale yellow ser after fs and chl after hbl, local fine grained chl fragments to 3cm, trace dissem py-cpy.	Qtz-hem bx v; 28.80-28.97m/60 d	trace	20168	24.69-25.19	1.50	5	0.1	270				
						20169	25.19-27.69	1.50	5	0.1	102				
						20170	27.69-29.17	1.48	1350	0.1	100				

L. 10,000 N.

L. 9,800 N.



GEOLOGICAL BRANCH ASSESSMENT REPORT

17,423

LEGEND

- 30 — Cu (ppm)
- 40 — Au (ppb)
- 1 — 30 — ≥ 50 ppb Au
- 20 — 45 — ≥ 100 ppm Cu
- 23 — 56 —

Robert Bacon
 May 19/88

50 100 150 200 metres
 SCALE 1 : 2,500

REVISED	TODD CREEK	
	NORTH ZONE	
	Fall Creek Grid	
	Cu-Au Soil Geochem	
PROJ.No. 281	SURVEY BY: R.B.	DATE: May, 1988
N.T.S. 104A/4	DRAWN BY: S.K.B.	SCALE: 1 : 2500
DWG.No. FIG. 10	NORANDA EXPLORATION	
	OFFICE: PRINCE GEORGE, B.C.	

	9500 E.										10000 E.										10,500 E.																								
L. II, 500N.																																													
L. II, 400N.	3	21	1	26	2	19	2	22	1	16	2	28	1	12	1	22	2	21	N/S	N/S	N/S	N/S	143	64	N/S	17	276	N/S	N/S	1	23	3	45	2	45	1	56	1	39	1	51	1	34	2	19
L. II, 300N.																																													
L. II, 200N.																																													

LEGEND

3 6 9 0 3 6 Cu (ppm)
3 6 9 0 3 6 Au (ppb)
GEOLOGICAL BRANCH
ASSESSMENT REPORT

17,423

Robert Barry
May 19/88

0 100 200 300 metres
SCALE 1:5,000

REVISED	TODD CREEK	
	MID ZONE	
	Ridge Grid	
	Cu - Au Talus Geochem	
PROJ. No. 281	SURVEY BY: R.B.	DATE: May, 1988
N.T.S. 104A/4	DRAWN BY: S.K.B.	SCALE: 1:5,000
DWG. No.	NORANDA EXPLORATION	
FIG. 9	OFFICE: PRINCE GEORGE, B.C.	

GEOLOGICAL BRANCH
ASSESSMENT REPORT

17,423

LEGEND

ROCK TYPES

- Hornblende-Feldspar Porphyry Volcanic
1-2mm euhedral hornblende and feldspar grains
in a green or pale to medium brown aphanitic
matrix, local aphanitic and banded tuff
fragments, local tuff-volcanic breccia.
- 1 quartz +/- pyrite altered, white to pale
brown weathering.
- 1a sericite +/- quartz-pyrite altered, rusty
yellow weathering.
- 1b chlorite +/- quartz-epidote-pyrite altered,
white to pale green weathering.
- 1c carbonate +/- quartz-pyrite-epidote altered,
pale to dark brown weathering.
- 1d
- 2 Andesite, anhedral feldspar grains in a maroon
to dark grey matrix, 2-5% disseminated
specular hematite grains, local 1-2mm pale
grey fragments, minor carbonate.
- 2a carbonate +/- pyrite altered, dark brown
weathering.
- Quartz-hematite-chalcopyrite +/- chlorite
+/- calcite vein and/or intense stockwork.
- Quartz-hematite-chalcopyrite +/- chlorite
+/- calcite stringer zone, veins to 20cm wide.
- Pyrite-sericite-chalcopyrite vein zone,
massive veins to 20cm wide.
- Pyrite-sericite-chalcopyrite stringer zone,
veins to 5cm wide, widely spaced.
- qv quartz vein
- hm hematite
- py pyrite
- cpy chalcopyrite
- si silica
- se sericite
- ch chlorite
- cb carbonate

*Robert Baerg
May 19, 1987*

Au gmt, Ag gmt, Cu %

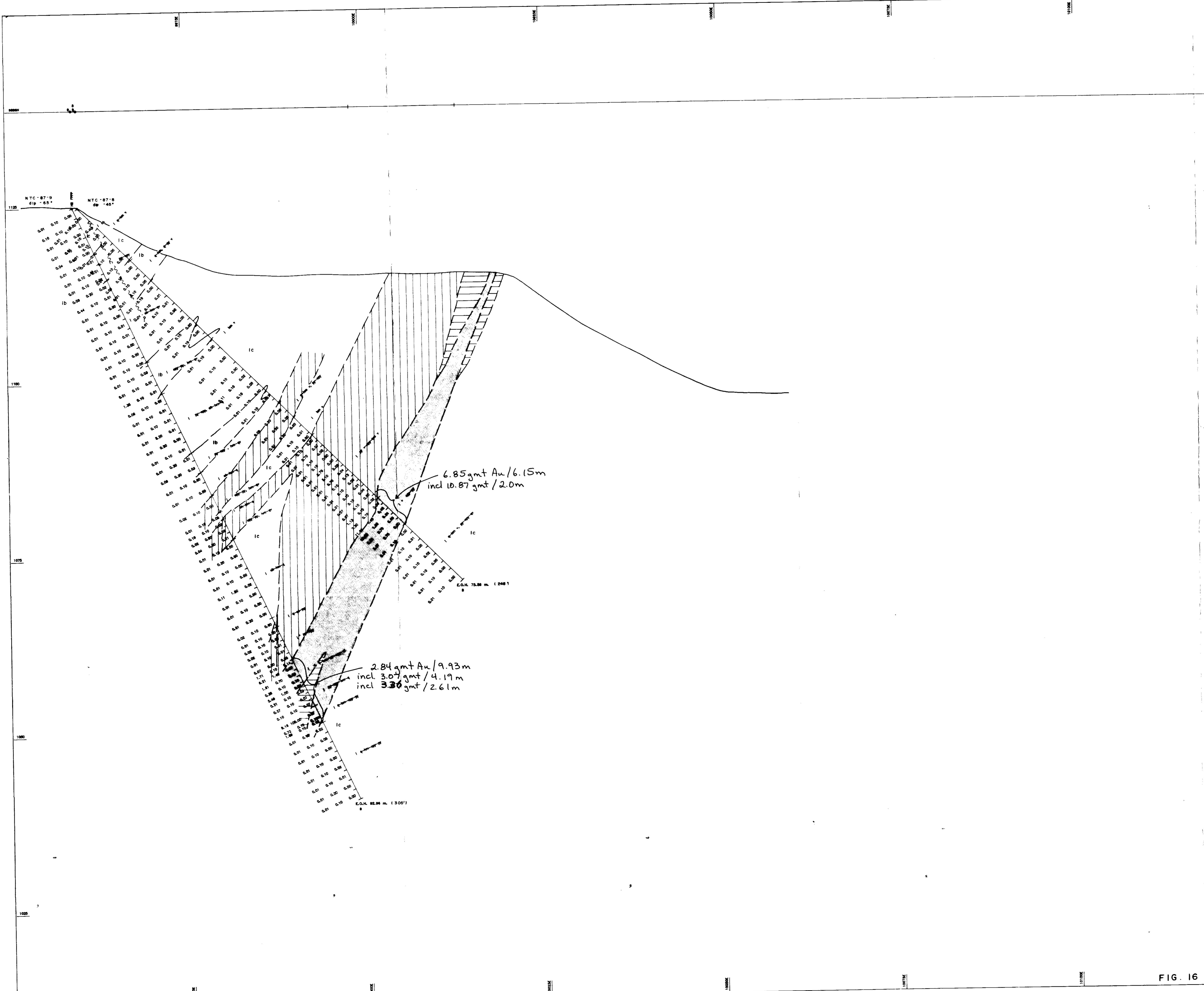
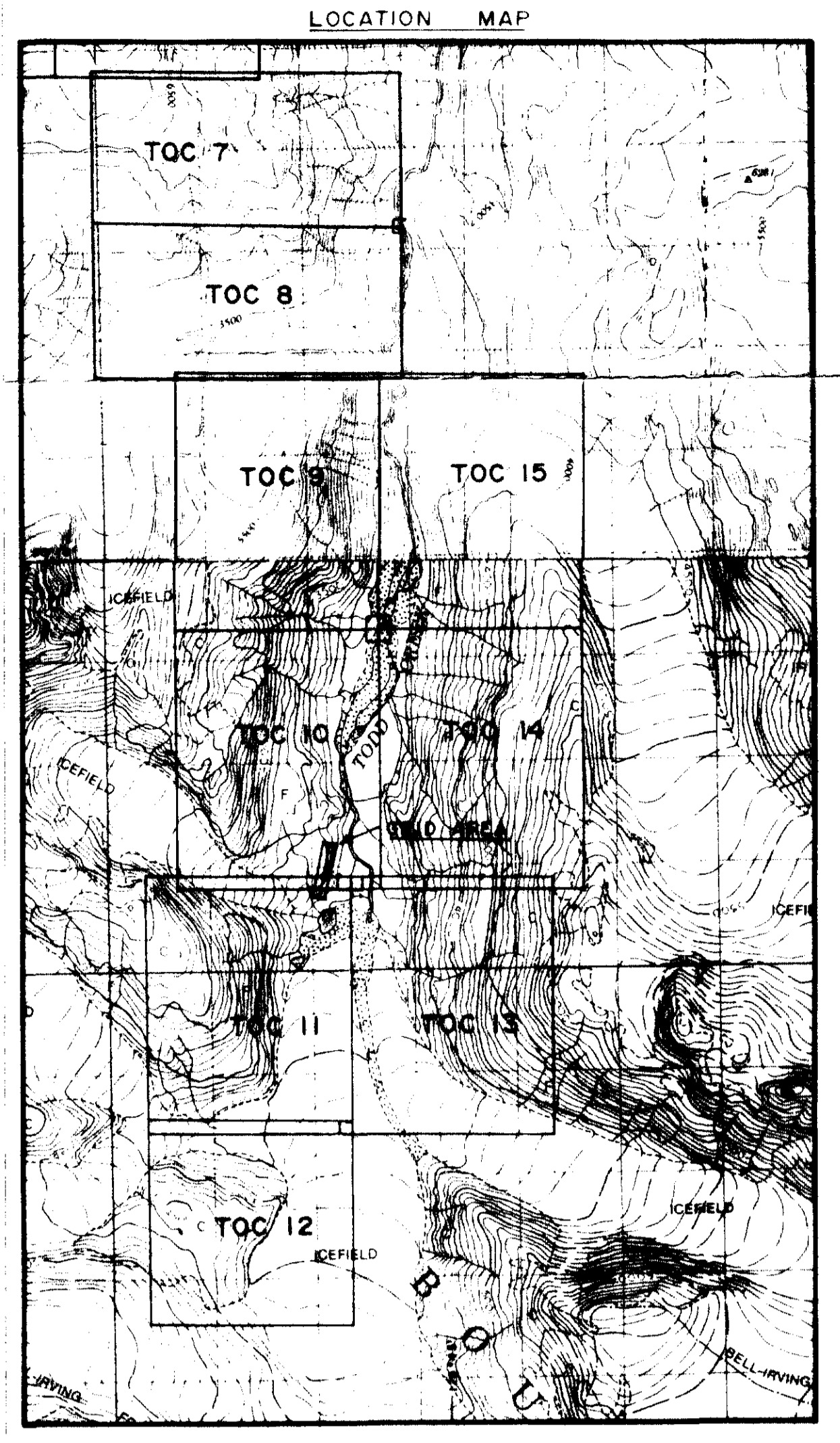
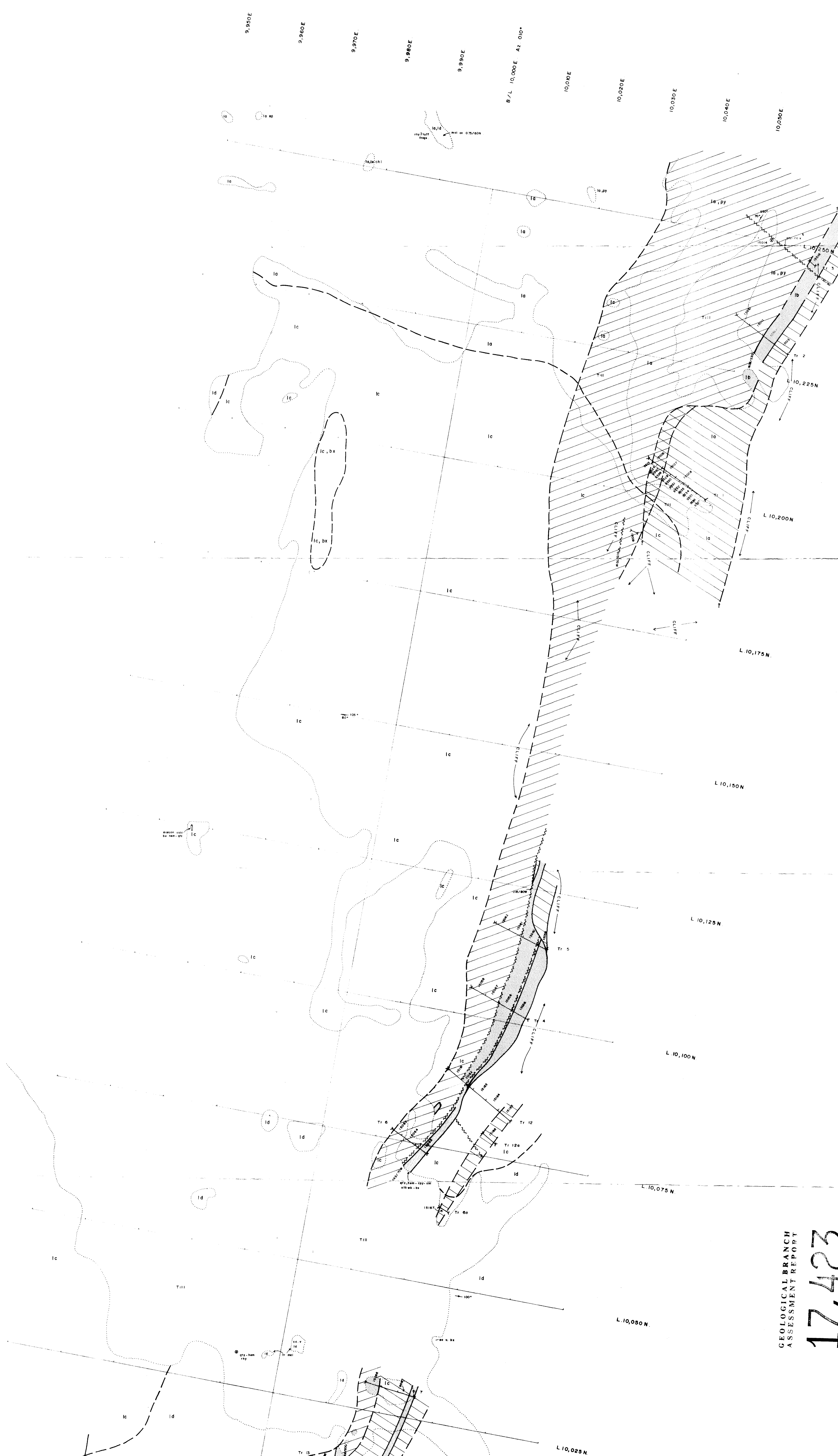


FIG. 16

TODD CREEK	
DRILL SECTION	
9996.2	
noranda exploration company, limited	
SCALE: 1/250	DDH 8,9
NTS: 104A04	PROJECT: 281
OCTOBER 1987	GEOL: R. BAERG



LEGEND

- ROCK TYPES**
- I** Hornblende-Plagioclase Porphyry Volcanic
1-2m subvolcanic hornblende and feldspar grains
in a green to pale to medium brown agglomeratic
matrix. Local splenic and handied tuff
fragments, local tuff-volcanic breccia.
 - Ia** quartz +/- pyrite altered, white to pale
brown weathering.
 - Ib** sericite +/- quartz-pyrite altered, rusty
yellow weathering.
 - Ic** chlorite +/- quartz-pyrite altered,
white to pale green weathering.
 - Id** calcic +/- quartz-pyrite-altered, pale
to dark brown weathering.
 - Z** Andesite, andesite feldspar stains in a maroon
to dark grey matrix, 2-5% disseminated
spherical hematite grains, local 1-2mm pale
grey fragments, minor calcic breccia.
 - 2d** calcic +/- pyrite altered, dark brown
weathering.
 - Quartz-hematite-chalcopyrite +/- calcic
/- calcite vein and/or intense alteration.
 - Quartz-hematite-chalcopyrite +/- chlorite
/- calcite alteration zone, veins to 20cm wide.
 - Pyrite-sericite-chalcopyrite vein zone,
massive veins to 20cm wide.
 - Pyrite-sericite-chalcopyrite stringer zone,
veins to 1cm wide, widely spaced.
- SYMBOLS**
- flow landing, strike and dip
 - joint, strike and dip
 - fault
 - area of outcrop
 - vein
 - breccia
 - chip sample line
 - trench
 - D.D.M. LOCATION
 - Flat - quartz-hematite-chalcopyrite
 - Flat - quartz-hematite
 - Flat - pyrite-chalcopyrite
 - × 8518 Flat sample
 - 8517 Rock sample

1986 TABLE OF ANALYSES

ALL VALUES IN PPM EXCEPT HEAVY METALS

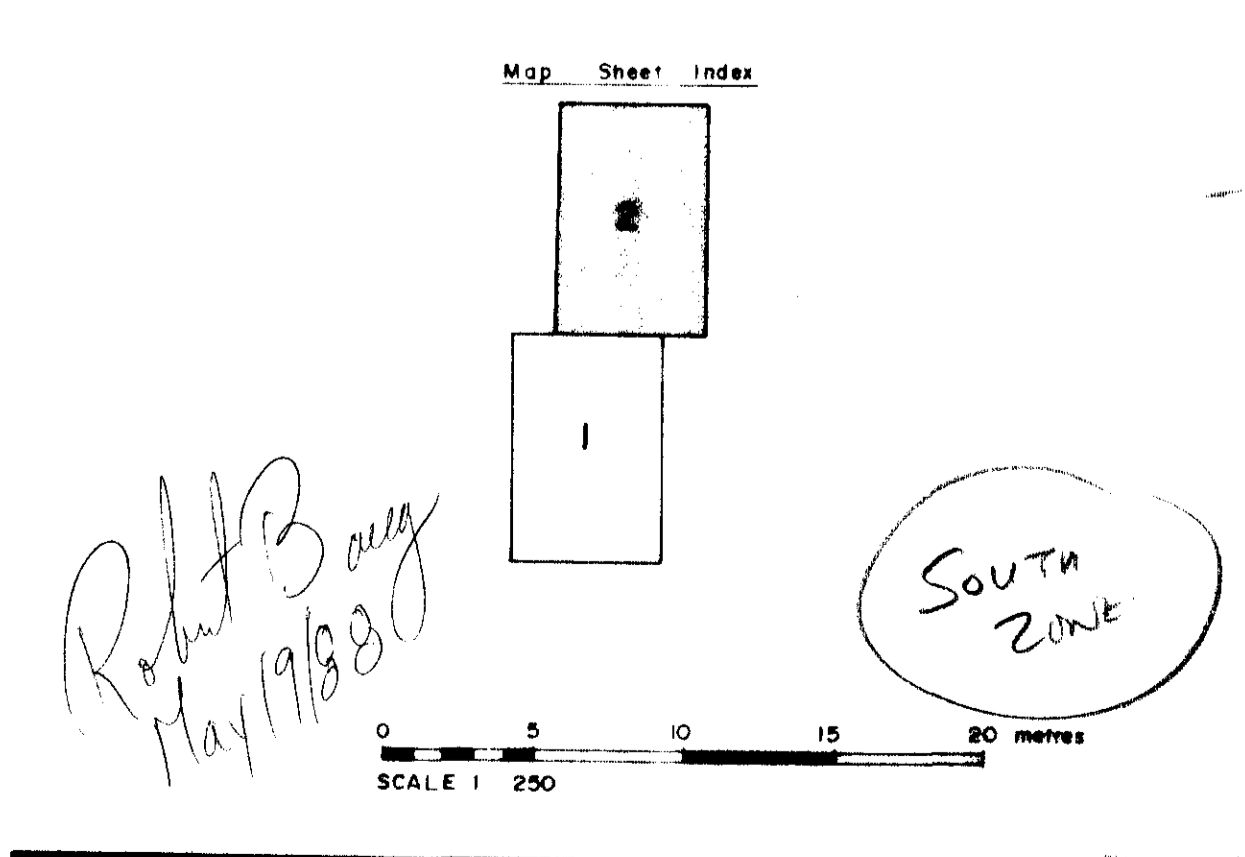
TRN	SAMPLE #	TYPE	Si	Al	Fe	Mg	Mn	K	Ca	Na	SO ₄	CO ₂	As	Cu	Pb	Ag	Au
1	15088	rock	52.8	12.2	27.6	6.8	0.09	11.1	1.08	0.08	0.01	0.01	0.01	0.01	0.01	0.01	0.01
1	15089	rock	52.1	11.3	27.0	6.3	0.09	11.1	1.08	0.08	0.01	0.01	0.01	0.01	0.01	0.01	0.01
1	15090	rock	51.2	10.7	26.2	5.6	0.09	10.5	1.02	0.07	0.01	0.01	0.01	0.01	0.01	0.01	0.01
1	15091	rock	50.4	10.1	25.4	4.9	0.09	9.9	0.96	0.06	0.01	0.01	0.01	0.01	0.01	0.01	0.01
1	15092	rock	49.6	9.5	24.6	4.2	0.09	9.3	0.90	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.01
1	15093	rock	48.8	8.9	23.8	3.5	0.09	8.7	0.84	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01
1	15094	rock	48.0	8.3	23.0	2.8	0.09	8.1	0.78	0.03	0.01	0.01	0.01	0.01	0.01	0.01	0.01
1	15095	rock	47.2	7.7	22.2	2.1	0.09	7.5	0.72	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01
1	15096	rock	46.4	7.1	21.4	1.4	0.09	6.9	0.66	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
1	15097	rock	45.6	6.5	20.6	0.7	0.09	6.3	0.60	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
1	15098	rock	44.8	5.9	19.8	0.0	0.09	5.7	0.54	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
1	15099	rock	44.0	5.3	19.0	-0.7	0.09	5.1	0.48	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
1	15100	rock	43.2	4.7	18.2	-1.4	0.09	4.5	0.42	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
1	15101	rock	42.4	4.1	17.4	-2.1	0.09	3.9	0.36	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
1	15102	rock	41.6	3.5	16.6	-2.8	0.09	3.3	0.30	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
1	15103	rock	40.8	2.9	15.8	-3.5	0.09	2.7	0.24	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
1	15104	rock	40.0	2.3	15.0	-4.2	0.09	2.1	0.18	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
1	15105	rock	39.2	1.7	14.2	-4.9	0.09	1.5	0.12	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
1	15106	rock	38.4	1.1	13.4	-5.6	0.09	0.9	0.06	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
1	15107	rock	37.6	0.5	12.6	-6.3	0.09	0.3	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
1	15108	rock	36.8	-0.1	11.8	-7.0	0.09	-0.3	-0.06	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
1	15109	rock	36.0	-0.7	11.0	-7.7	0.09	-0.9	-0.12	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
1	15110	rock	35.2	-1.3	10.2	-8.4	0.09	-1.5	-0.18	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
1	15111	rock	34.4	-1.9	9.4	-9.1	0.09	-2.1	-0.24	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
1	15112	rock	33.6	-2.5	8.6	-9.8	0.09	-2.7	-0.30	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
1	15113	rock	32.8	-3.1	7.8	-10.5	0.09	-3.3	-0.36	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
1	15114	rock	32.0	-3.7	7.0	-11.2	0.09	-3.9	-0.42	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
1	15115	rock	31.2	-4.3	6.2	-11.9	0.09	-4.5	-0.48	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
1	15116	rock	30.4	-4.9	5.4	-12.6	0.09	-5.1	-0.54	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
1	15117	rock	29.6	-5.5	4.6	-13.3	0.09	-5.7	-0.60	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
1	15118	rock	28.8	-6.1	3.8	-14.0	0.09	-6.3	-0.66	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
1	15119	rock	28.0	-6.7	3.0	-14.7	0.09	-6.9	-0.72	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
1	15120	rock	27.2	-7.3	2.2	-15.4	0.09	-7.5	-0.78	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

1987 TABLE OF ANALYSES

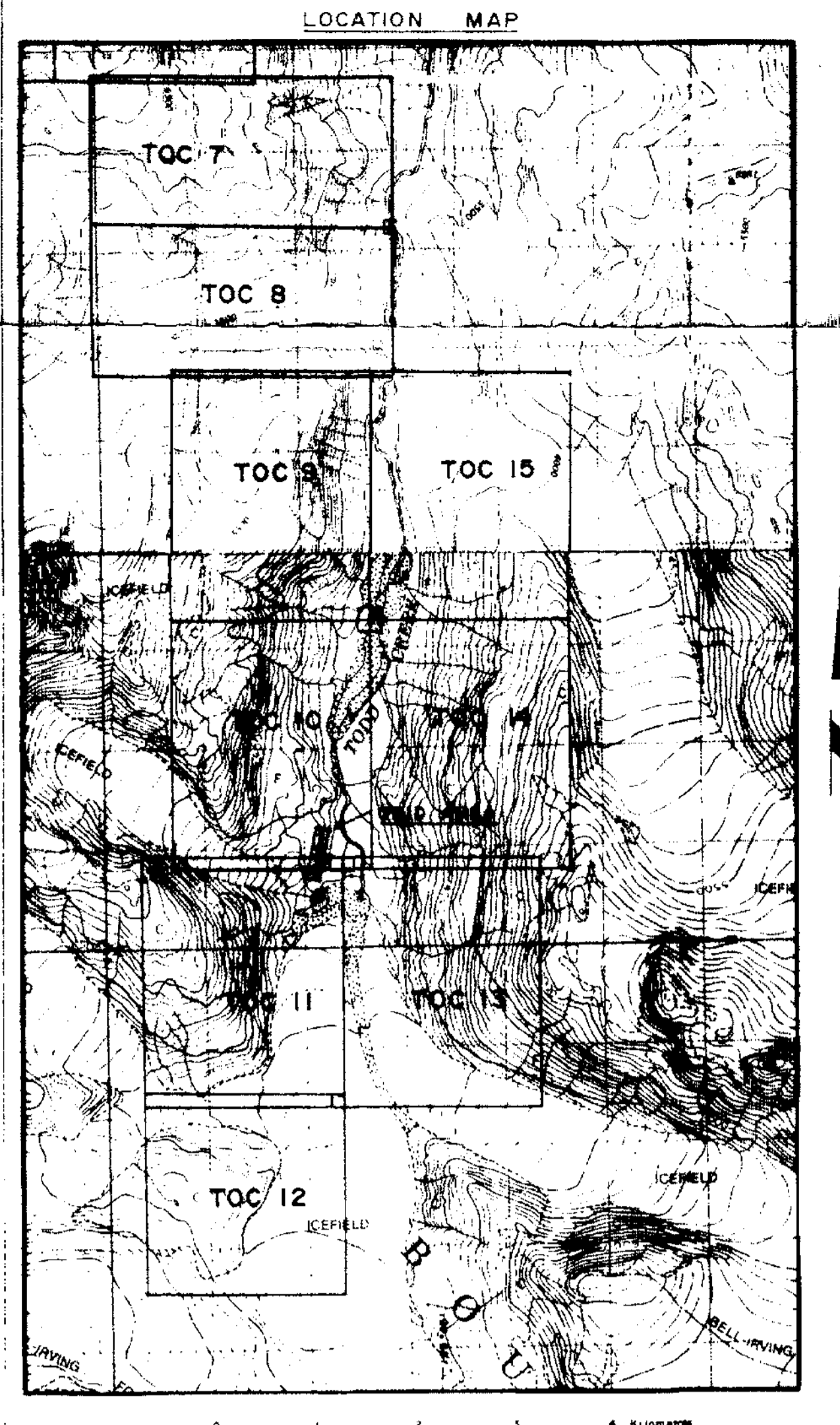
ALL VALUES IN PPM EXCEPT HEAVY METALS

TRN	SAMPLE #	TYPE	Si	Al	Fe	Mg	Mn	K	Ca	Na	SO ₄	CO ₂	As	Cu	Pb	Ag	Au
1	9320	rock	52.0	12.0	27.0	6.8	0.09	11.1	1.08	0.08	0.01	0.01	0.01	0.01	0.01	0.01	0.01
1	9321	rock	51.0	11.0	26.0	6.0	0.09	10.0	1.00	0.07	0.01	0.01	0.01	0.01	0.01	0.01	0.01
1	9322	rock	50.0	10.0	25.0	5.0	0.09	9.0	0.90	0.06	0.01	0.01	0.01	0.01	0.01	0.01	0.01
1	9323	rock	49.0	9.0	24.0	4.0	0.09	8.0	0.80	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.01
1	9324	rock	48.0	8.0	23.0	3.0	0.09	7.0	0.70	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01
1	9325	rock	47.0	7.0	22.0	2.0	0.09	6.0	0.60	0.03	0.01	0.01	0.01	0.01	0.01	0.01	0.01
1	9326	rock	46.0	6.0	21.0	1.0	0.09	5.0	0.50	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01
1	9327	rock	45.0	5.0	20.0	0.0	0.09	4.0	0.40	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
1	9328	rock	44.0	4.0	19.0	-0.7	0.09	3.0	0.30	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
1	9329	rock	43.0	3.0	18.0	-1.4	0.09	2.0	0.20	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
1	9330	rock	42.0	2.0	17.0	-2.1	0.09	1.0	0.10	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
1	9331	rock	41.0	1.0	16.0	-2.8	0.09	0.0	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
1	9332	rock	40.0	0.0	15.0	-3.5	0.09	-0.7	-0.07	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
1	9333	rock	39.0	-0.7	14.0	-4.2	0.09	-1.4	-0.14	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
1	9334	rock	38.0	-1.4	13.0	-4.9	0.09	-2.1	-0.21	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
1	9335	rock	37.0	-2.1	12.0	-5.6	0.09	-2.8	-0.28	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
1	9336	rock	36.0	-2.8	11.0	-6.3	0.09	-3.5	-0.35	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
1	9337	rock	35.0	-3.5	10.0	-7.0	0.09	-4.2	-0.42	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**
17,423



REVISED	TODD CREEK	
	GEOLOGY MAP	
PROJ. No. 881	SURVEY BY: R. B.	DATE: Aug. 1987.
N.T.S. 1:50,000	DRAWN BY: S. H. B.	SCALE: 1:250
DWS. No.	NORANDA EXPLORATION	
FIG. B	OFFICE: PRINCE GEORGE, B.C.	



LEGEND

- ROCK TYPES**
- 1 Hornblende-epidior Porphyry Volcanic
1-2m subvolcanic hornblende and epidior grains in a green or pale to medium brown aphanitic matrix. Local aphanitic and banded tuff fragments, local tuff-volcanic breccia.
 - 1c quartz +/- pyrite altered, white to pale brown weathering.
 - 1d sericite +/- quartz-pyrite altered, rusty yellow weathering.
 - 1e chlorite +/- quartz-epidior-pyrite altered, white to pale green weathering.
 - 1d carbonate +/- quartz-pyrite-epidior altered, pale to dark brown weathering.
 - 2 Andesite, anhedral feldspar grains in a maroon to dark grey matrix. 2-3m disseminated specular hematite grains, local 1-2m pale grey fragments, minor carbonate.
 - 2d carbonate +/- pyrite altered, dark brown weathering.
 - Quartz-hematite-chalcopyrite +/- chlorite +/- calcite vein and/or intense stockwork.
 - Quartz-hematite-chalcopyrite +/- chlorite +/- calcite stringer zone, veins no 20cm wide.
 - Pyrite-sericite-chalcopyrite vein zone, massive veins to 20cm wide.
 - Pyrite-sericite-chalcopyrite stringer zone, veins 10-20cm wide, widely spaced.
- SYMBOLS**
- flow banding, strike and dip
 - joint, strike and dip
 - contact, inferred, defined
 - area of outcrop
 - vein
 - breccia
 - chip sample line
 - trench
 - D.D.H. LOCATION
 - Float - quartz-hematite-chalcopyrite
 - Float - quartz-hematite
 - Float - pyrite-chalcopyrite
 - Float - pyrite
 - 65176 Float sample
 - 65177 Rock sample

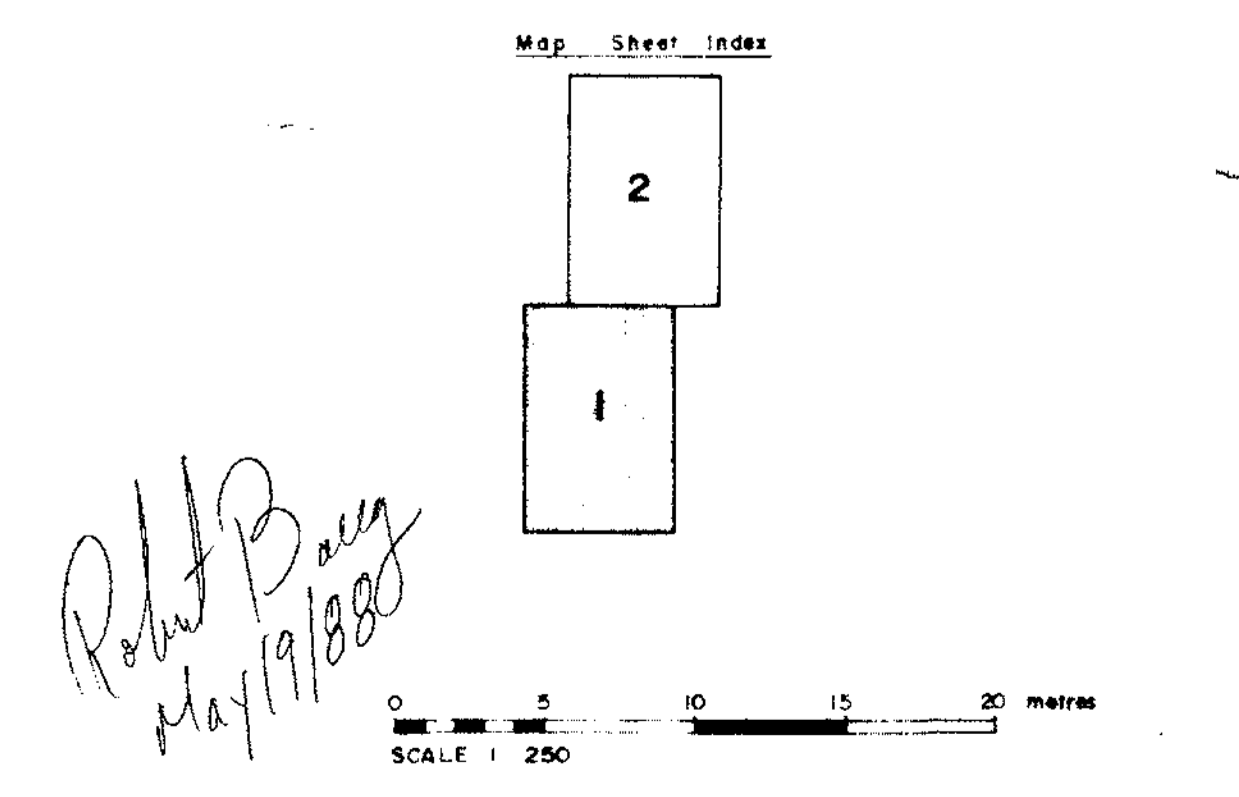
1986 TABLE OF ANALYSES

TRENCH	SAMPLE #	TYPE	Wt	Co	Fe	Si	Al	Ca	Mg	Na	K	As	Cu	Au
0	41828	rock	2	2,425	7	24	6.8	14	13					1.56
	41829	rock	2	1,922	20	17	9.6	213	23					1.16
	41830	rock	13	1,312	95	19	6.8	1,128	2					55
	41831	rock	3	1,003	8	16	0.7	12	7					20
	41832	rock	1	4,426	8	33	0.7	49	10					14
	41833	rock	1	4,528	7	16	0.3	47	3					12
	15668	rock	1	2,318	10	35	0.8	39	14					25
	15669	rock	11	4,208	20	14	0.4	216	2					15
	15670	rock	1	1,412	4	14	0.1	16	2					15
	15671	rock	3	248	14	11	0.6	720	2					103
	15674	rock	2	460	14	16	0.3	82	4					402
	15675	rock	3	16,917	27	193	18.4	291	104					4.16

1987 TABLE OF ANALYSES

TRENCH	SAMPLE #	TYPE	Wt	Ag	Cu	As	Co	Fe	Si	Al	Ca	Mg	Na	K
TR 21	9251	chip	1.0 m	*0.010	*0.02	0.04								
	9252	1.0 m	*0.008	*0.02	0.03									
	9253	1.0 m	*0.014	*0.02	0.03									
	9254	1.0 m	*0.001	*0.02	0.03									
	9255	1.0 m	*0.001	*0.02	0.03									
	9256	1.0 m	*0.001	*0.02	0.03									
	9257	1.0 m	*0.001	*0.02	0.03									
	9258	1.0 m	*0.001	*0.02	0.03									
	9259	1.0 m	*0.001	*0.02	0.03									
	9260	1.0 m	*0.001	*0.02	0.03									
	9261	1.0 m	*0.001	*0.02	0.03									
	9262	1.0 m	*0.001	*0.02	0.03									
	9263	1.0 m	*0.001	*0.02	0.03									
	9264	1.0 m	*0.001	*0.02	0.03									
	9265	1.0 m	*0.001	*0.02	0.03									
	9266	1.0 m	*0.001	*0.02	0.03									
	9267	1.0 m	*0.001	*0.02	0.03									
	9268	1.0 m	*0.001	*0.02	0.03									
	9269	1.0 m	*0.001	*0.02	0.03									
	9270	1.0 m	*0.001	*0.02	0.03									
	9271	1.0 m	*0.001	*0.02	0.03									
	9272	1.0 m	*0.001	*0.02	0.03									
	9273	1.0 m	*0.001	*0.02	0.03									
	9274	1.0 m	*0.001	*0.02	0.03									
	9275	1.0 m	*0.001	*0.02	0.03									
	9276	1.0 m	*0.001	*0.02	0.03									
	9277	1.0 m	*0.001	*0.02	0.03									
	9278	1.0 m	*0.001	*0.02	0.03									
	9279	1.0 m	*0.001	*0.02	0.03									
	9280	1.0 m	*0.001	*0.02	0.03									
	9281	1.0 m	*0.001	*0.02	0.03									
	9282	1.0 m	*0.001	*0.02	0.03									
	9283	1.0 m	*0.001	*0.02	0.03									
	9284	1.0 m	*0.001	*0.02	0.03									
	9285	1.0 m	*0.001	*0.02	0.03									
	9286	1.0 m	*0.001	*0.02	0.03									
	9287	1.0 m	*0.001	*0.02	0.03									
	9288	1.0 m	*0.001	*0.02	0.03									
	9289	1.0 m	*0.001	*0.02	0.03									
	9290	1.0 m	*0.001	*0.02	0.03									
	9291	1.0 m	*0.001	*0.02	0.03									
	9292	1.0 m	*0.001	*0.02	0.03									
	9293	1.0 m	*0.001	*0.02	0.03									
	9294	1.0 m	*0.001	*0.02	0.03									
	9295	1.0 m	*0.001	*0.02	0.03									
	9296	1.0 m	*0.001	*0.02	0.03									
	9297	1.0 m	*0.001	*0.02	0.03									
	9298	1.0 m	*0.001	*0.02	0.03									
	9299	1.0 m	*0.001	*0.02	0.03									
	9300	1.0 m	*0.001	*0.02	0.03									
	9301	1.0 m	*0.001	*0.02	0.03									
	9302	1.0 m	*0.001	*0.02	0.03									
	9303	1.0 m	*0.001	*0.02	0.03									
	9304	1.0 m	*0.001	*0.02	0.03									
	9305	1.0 m	*0.001	*0.02	0.03									
	9306	1.0 m	*0.001	*0.02	0.03									
	9307	1.0 m	*0.001	*0.02	0.03									
	9308	1.0 m	*0.001	*0.02	0.03									
	9309	1.0 m	*0.001	*0.02	0.03									
	9310	1.0 m	*0.001	*0.02	0.03									
	9311	1.0 m	*0.001	*0.02	0.03									
	9312	1.0 m	*0.001	*0.02	0.03									
	9313	1.0 m	*0.001	*0.02	0.03									
	9314	1.0 m	*0.001	*0.02	0.03									
	9315	1.0 m	*0.001	*0.02	0.03									
	9316	1.0 m	*0.001	*0.02	0.03									
	9317	1.0 m	*0.001	*0.02	0.03									
	9318	1.0 m	*0.001	*0.02	0.03									
	9319	1.0 m	*0.001	*0.02	0.03									
	9320	1.0 m	*0.001	*0.02	0.03									
	9321	1.0 m	*0.001	*0.02	0.03									
	9322	1.0 m	*0.001	*0.02	0.03									
	9323	1.0 m	*0.001	*0.02	0.03									
	9324	1.0 m	*0.001	*0.02	0.03									

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**
17,423



REVISED

TODD CREEK

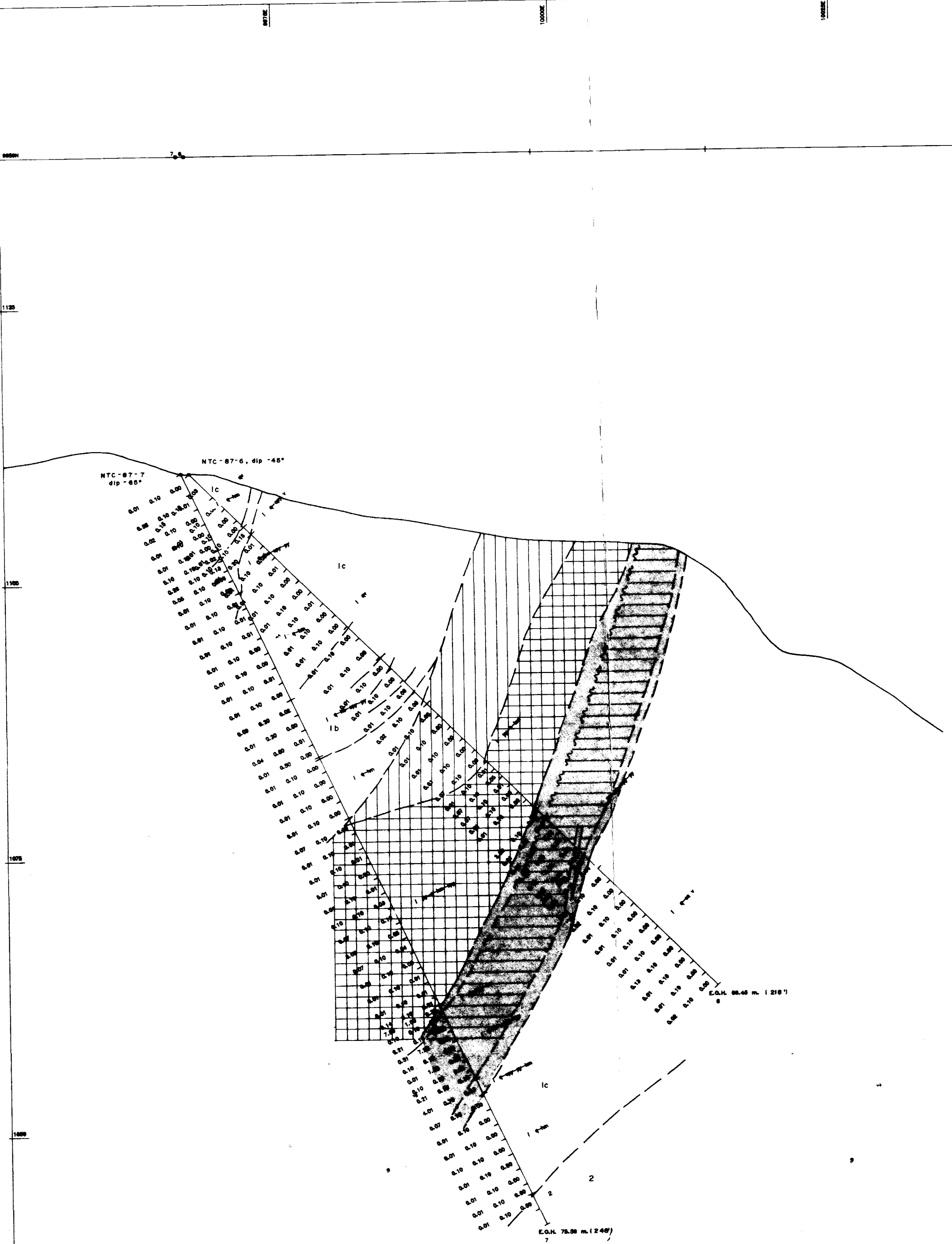
GEOLOGY MAP
SOUTH ZONE

PROJ. No. 887
DATE: Aug. 1987

DWG. No. 1024/74
SCALE: 1:250

NORANDA EXPLORATION
OFFICE: PRINCE GEORGE, B.C.

FIG. 7



LEGEND

- ROCK TYPES**
- 1 Hornblende-feldspar Porphyry Volcanic
1-2mm subhedral hornblende and feldspar grains in a green or pale to medium brown aphanitic matrix. local sphanitic and banded tuff fragments. local tuff-volcanic breccia.
 - 1a quartz +/- pyrite altered, white to pale brown weathering.
 - 1b sericite +/- quartz-pyrite altered, rusty yellow weathering.
 - 1c chlorite +/- quartz-epidote-pyrite altered, white to pale green weathering.
 - 1d carbonate +/- quartz-pyrite-epidote altered, pale to dark brown weathering.
 - 2 Andesite, anhedral feldspar grains in a maroon to dark grey matrix. 2-5% disseminated specular hematite grains, local 1-2mm pale grey fragments, minor carbonate.
 - 2d carbonate +/- pyrite altered, dark brown weathering.
 - Quartz-hematite-chalcopyrite +/- chlorite +/- calcite vein and/or intense stockwork.
 - Quartz-hematite-chalcopyrite +/- chlorite +/- calcite stringer zone, veins to 20cm wide.
 - Pyrite-sericite-chalcopyrite vein zone, massive veins to 20cm wide.
 - Pyrite-sericite-chalcopyrite stringer zone, veins to 5cm wide, widely spaced.

GEOLOGICAL BRANCH
ASSESSMENT REPORT

quartz
hematite
pyrite
chalcopyrite
silica
sericite
chlorite
carbonate

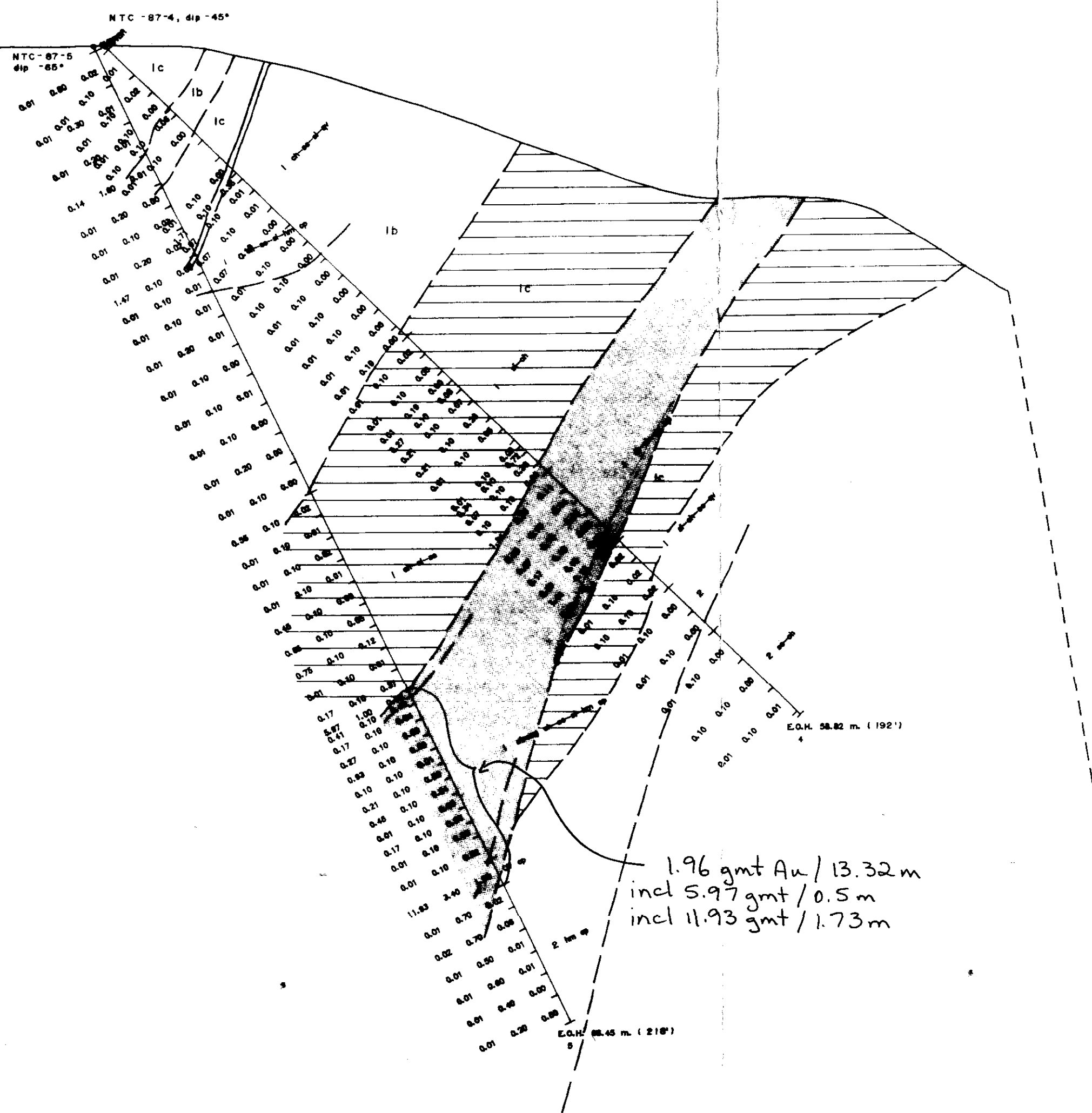
17,423

Robert Baerg
May 19 1988

Au gmt, Ag gmt, Cu %

TODD CREEK	
DRILL SECTION	
9959.0 N	
noranda exploration company, limited	
SCALE: 1/250	DDH 6,7
NTS: 104A04	PROJECT: 281
OCTOBER 1987	GEOLOGICAL: R. BAERG

FIG. 15



LEGEND

- ROCK TYPES**
- 1** Hornblende-Feldspar Porphyry Volcanic
1-2mm euhedral hornblende and feldspar grains in a green or pale to medium brown aphanitic matrix, local sphaeritic and banded tuff fragments, local tuff-volcanic breccia.
 - 1a** quartz +/- pyrite altered, white to pale brown weathering.
 - 1b** sericite +/- quartz-pyrite altered, rusty yellow weathering.
 - 1c** chlorite +/- quartz-epidote-pyrite altered, white to pale green weathering.
 - 1d** carbonate +/- quartz-pyrite-epidote altered, pale to dark brown weathering.
 - 2** Andesite, anhedral feldspar grains in a maroon to dark grey matrix, .2-.5% disseminated specular hematite grains, local 1-2mm pale grey fragments, minor carbonate.
 - 2d** carbonate +/- pyrite altered, dark brown weathering.
 - Quartz-hematite-chalcopryite +/- chlorite +/- calcite vein and/or intense stockwork.
 - Quartz-hematite-chalcopryite +/- chlorite +/- calcite stringer zone, veins to 20cm wide.
 - Pyrite-sericite-chalcopryite vein zone, massive veins to 20cm wide.
 - Pyrite-sericite-chalcopryite stringer zone, veins to 5cm wide, widely spaced.
 - qv** quartz vein
 - hm** hematite
 - py** pyrite
 - cpy** chalcopryite
 - si** silica
 - se** sericite
 - ch** chlorite
 - cb** carbonate

GEOLOGICAL BRANCH
ASSESSMENT REPORT

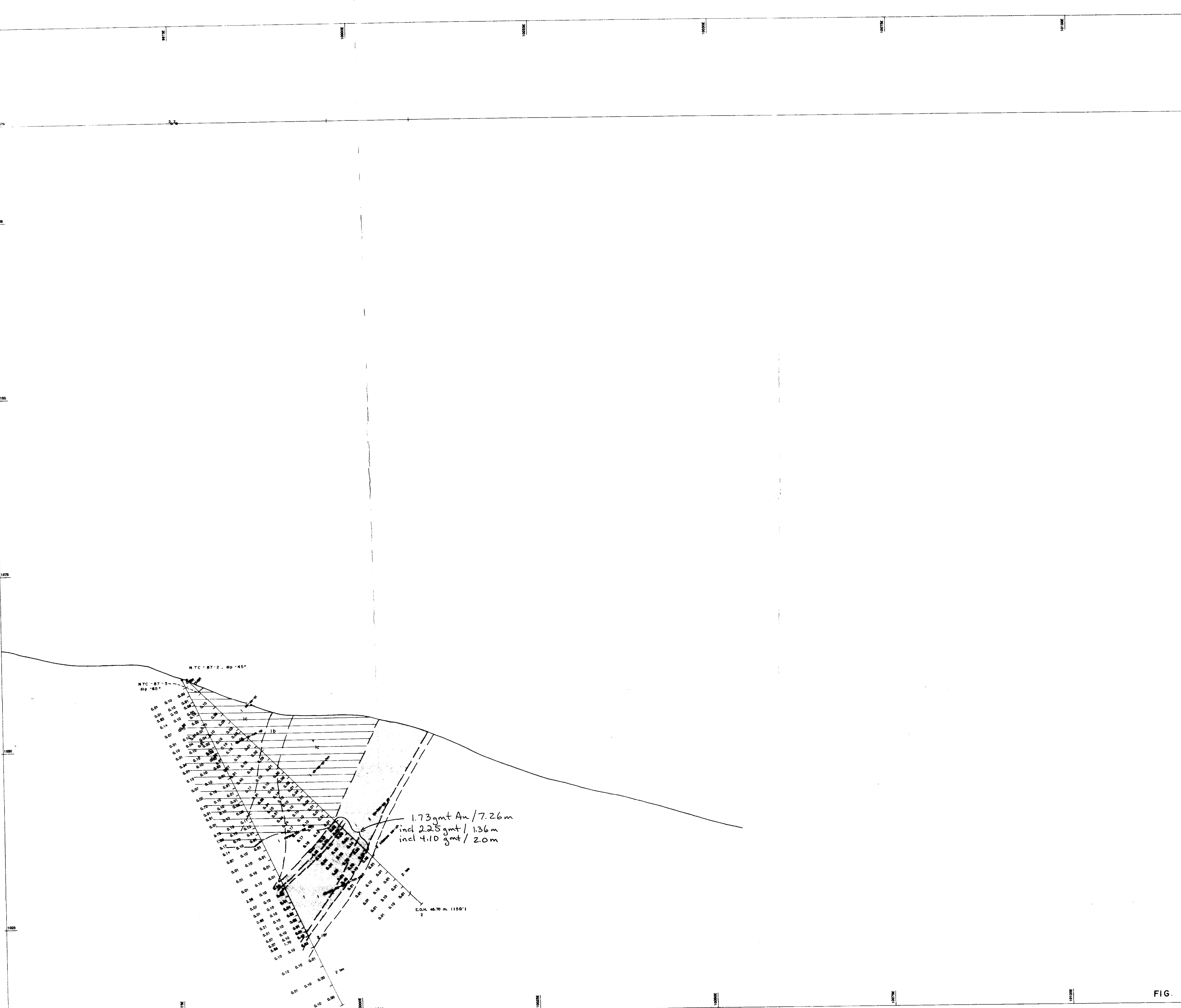
17,423

Robert Baerg
May 19 1988

Au gmt, Ag gmt, Cu %

TODD CREEK	
DRILL SECTION	
9927.5 N	
noranda exploration company, limited	
SCALE: 1/250	DDH 4,5
NTS: 104A04	PROJECT: 281
OCTOBER 1987	GEOLOGICAL: R. BAERG

FIG. 14



- ROCK TYPES**
- 1** Hornblende-Feldspar Porphyry Volcanic
1-2mm euhedral hornblende and feldspar grains in a green or pale to medium brown aphanitic matrix, local aphanitic and banded tuff fragments, local tuff-volcanic breccia.
 - 1a** quartz +/- pyrite altered, white to pale brown weathering.
 - 1b** sericite +/- quartz-pyrite altered, rusty yellow weathering.
 - 1c** chlorite +/- quartz-epidote-pyrite altered, white to pale green weathering.
 - 1d** carbonate +/- quartz-pyrite-epidote altered, pale to dark brown weathering.
 - 2** Andesite, anhedral feldspar grains in a maroon to dark grey matrix, 2-5% disseminated specular hematite grains, local 1-2mm pale grey fragments, minor carbonate.
 - 2d** carbonate +/- pyrite altered, dark brown weathering.
 - Quartz-hematite-chalcopyrite +/- chlorite +/- calcite vein and/or intense stockwork.
 - Quartz-hematite-chalcopyrite +/- chlorite +/- calcite stringer zone, veins to 20cm wide.
 - Pyrite-sericite-chalcopyrite vein zone, massive veins to 20cm wide.
 - Pyrite-sericite-chalcopyrite stringer zone, veins to 5cm wide, widely spaced.

quartz vein
hematite
pyrite
chalcopyrite
silica
sericite
chlorite
carbonate

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

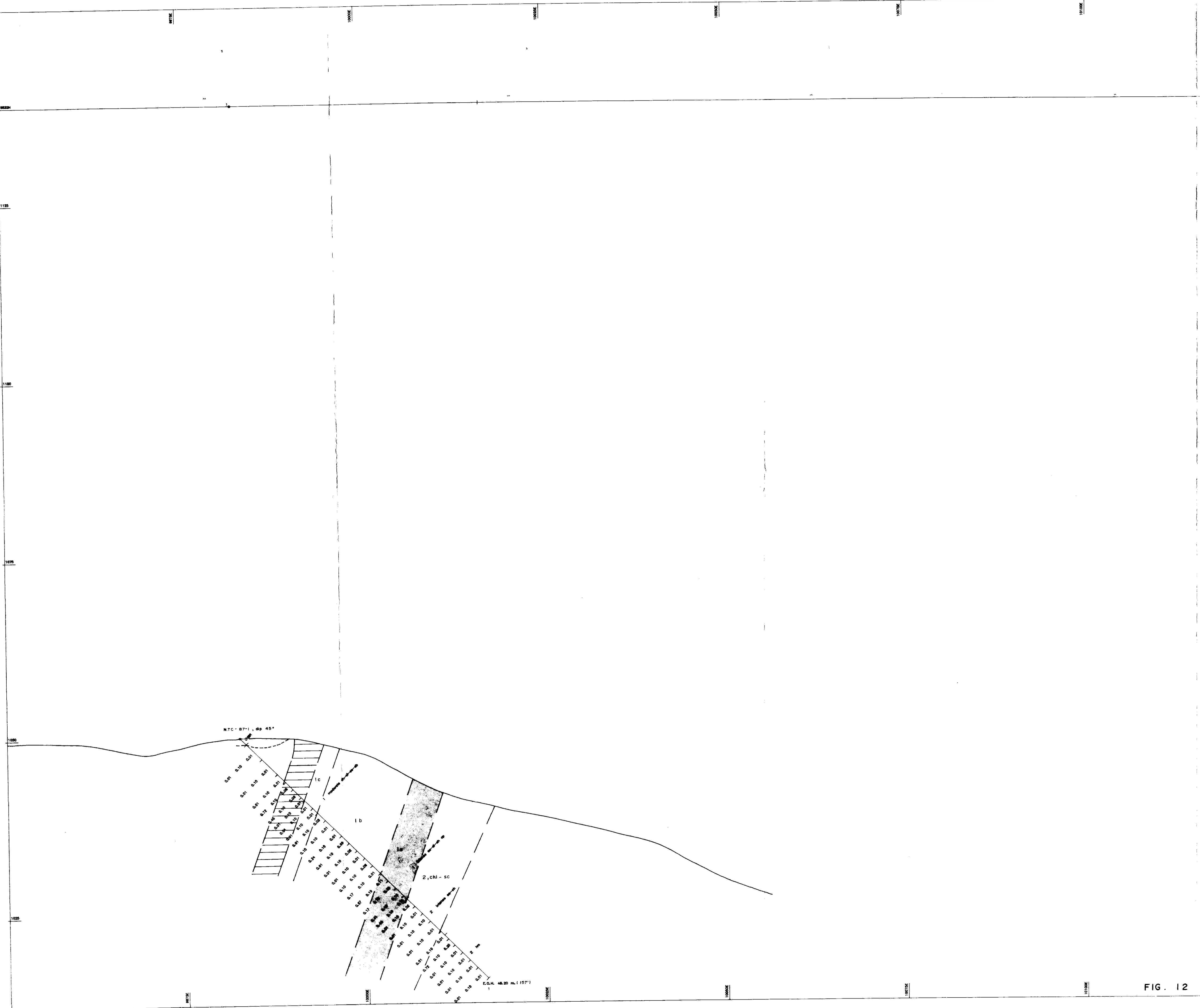
17,423

*Robert Baerg
May 19/88*

Au gmt, Ag gmt, Cu %

TODD CREEK	
DRILL SECTION	
9867.4 N	
noranda exploration company, limited	
SCALE: 1/250	DDH 2,3
NTS: 104A04	PROJECT: 281
OCTOBER 1987	GEOL: R. BAERG

FIG. 13



LEGEND

ROCK TYPES

- Horblende-Feldspar Porphyry Volcanic
- 1-2mm euhedral hornblende and feldspar grains in a green or pale to medium brown aphanitic matrix, local aphanitic and banded tuff fragments, local tuff-volcanic breccia.
- 1a quartz +/- pyrite altered, white to pale brown weathering.
- 1b sericite +/- quartz-pyrite altered, rusty yellow weathering.
- 1c chlorite +/- quartz-epidote-pyrite altered, white to pale green weathering.
- 1d carbonate +/- quartz-pyrite-epidote altered, pale to dark brown weathering.
- 2 Andesite, anhedral feldspar grains in a maroon to dark grey matrix, .2-.5% disseminated specular hematite grains, local 1-2mm pale grey fragments, minor carbonate.
- 2d carbonate +/- pyrite altered, dark brown weathering.
- Quartz-hematite-chalcopyrite +/- chlorite +/- calcite vein and/or intense stockwork.
- Quartz-hematite-chalcopyrite +/- chlorite +/- calcite stringer zone, veins to 20cm wide.
- Pyrite-sericite-chalcopyrite vein zone, massive veins to 20cm wide.
- Pyrite-sericite-chalcopyrite stringer zone, veins to 5cm wide, widely spaced.

- qv quartz vein
- hm hematite
- py pyrite
- cpy chalcopyrite
- si silica
- se sericite
- ch chlorite
- cb carbonate

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

17,423

*Robert Baerg
May 1988*

Au gmt, Ag gmt, Cu %

TODD CREEK	
DRILL SECTION	
9831.6 N	
noranda exploration company, limited	
SCALE: 1/250	DDH 1
NTS: 104A04	PROJECT: 281
OCTOBER 1987	GEOLOGICAL: R. BAERG

FIG. 12

TOC 7

TOC 6

TOC 8

LOCATION MAP



LEGEND

- ROCK TYPES**
- 1 Feldspar Porphyry, pale brown, 10 quartz-pyrite altered, 10 quartz-sericite-pyrite altered, 10 chlorite altered, 10 iron-carbonate +/- quartz-sericite altered
- 2 Dark green, maroon gray andesite flows, agglomerate tuff, breccia
- 3 Light gray-green feldspar porphyry flows, tuff and tuff breccia
- 4 Rhyolite, massive, breccia, lapilli tuff, locally quartz-sericite-pyrite altered
- 5 Dark green hornblende porphyry intrusives
- Quartz-pyrite +/- sericite altered mineralized zone
- ba barite
- bn borate
- cal calcite
- chl chlorite
- cpy chalcopyrite
- gn galena
- hem hematite
- mal malachite
- py pyrite
- q quartz
- sc sericite
- sp sphaerite
- stk wk. stock work
- Tt tetrahedrite

- SYMBOLS**
- Outer area
- Geologic contact defined, inferred
- Mineralized vein
- Rock, float sample
- Silt sample
- Glacial till
- Icefield
- Trench or chip sample line
- Strike and dip
- Plan sample / Plan sample and silt sample

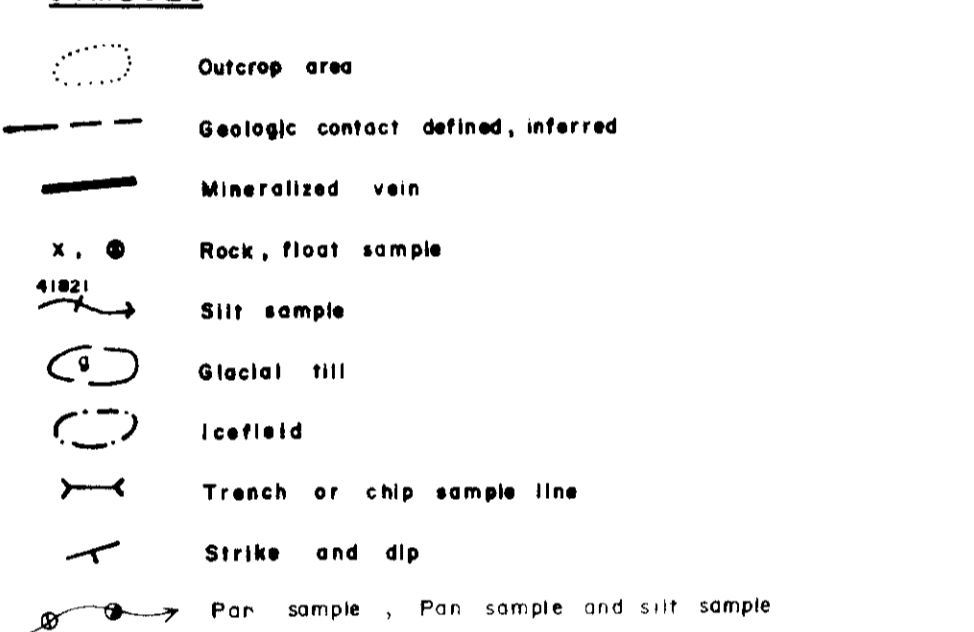
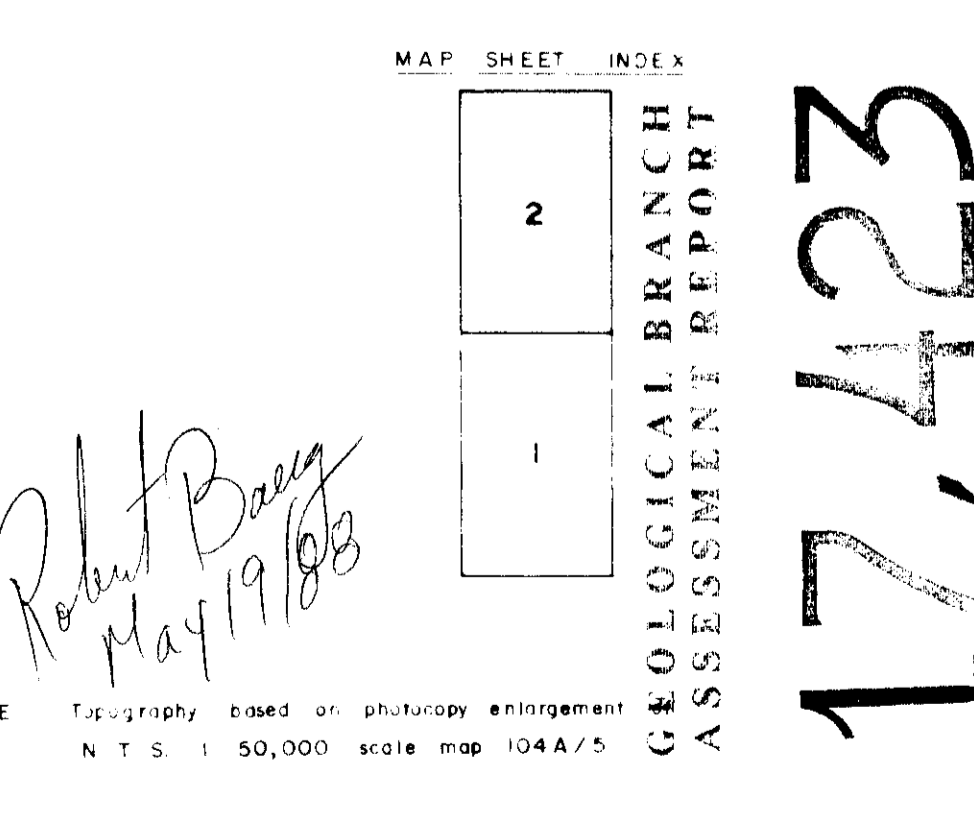


TABLE OF ROCK AND SILT SAMPLE ANALYSIS

ALL VALUES IN PPM EXCEPT WHERE NOTED

SAMPLE #	TYPE	CO	CU	PB	ZN	AG	AS	CD	SO	AU	AM	FE
15151	sil	1	94	22	104	0.6	32	1	2			
15152	sil	1	142	24	100	0.3	76	1	2			
15153	sil	1	100	27	103	0.6	51	1	2			
15154	sil	1	80	16	101	0.2	17	1	2			
15155	sil	1	132	32	103	0.4	42	1	2			
15156	sil	1	90	33	121	0.1	48	1	2			
15157	sil	1	65	20	108	0.4	42	1	2			
15158	sil	1	80	22	100	0.5	41	1	2			
15159	sil	5	270	51,516	1,673	2.1	75	67	44	1		
15160	rock	6	286	11,768	4,220	39.1	53	10	12	12		
15161	sil	1	70	30	162	0.4	26	1	2			
15162	sil	1	51	24	98	0.4	97	1	2			
15163	rock	28	146	534	2,552	16.2	131	17	2	6		
15164	rock	6	82,247	628	27,352	0.7	191	2	2	208	4.81	1616
15165	rock	6	1,159	164	1,151	1.5	209	15	1			
15166	rock	6	39,197	46	370	0.2	191	6	11			
15167	rock	3	1,568	10	101	0.7	117	1	2			
15168	rock	32	12,587	60	158	0.4	92	3	2			
15169	rock	3	68	43	69	0.4	62	1	2			
15170	rock	2	276	216	57	15.9	51	18	62			
15171	rock	6	82,247	628	27,352	0.7	191	6	11			
15172	rock	2	21	11	113	0.2	2	1	2			
15173	rock	3	15	15	62	0.2	46	1	2			
15174	rock	7	180	13	45	0.2	40	1	4	92		
15175	rock	8	23	8	8	0.2	68	1	1			
15176	rock	8	22	24	133	0.3	109	1	1	10		
15177	rock	2	20	25	115	0.5	80	1	2	37		
15178	rock	3	21	21	21	0.4	117	1	2	37		
15179	rock	7	9,849	22	399	2.2	78	3	2	1,980		
15180	rock	8	2,192	20	205	0.9	107	4	4	580		
15181	rock	15	16,572	67	2,992	11.3	2,526	48	5			
15182	rock	18	19,241	11	190	0.4	25	4	2			
15183	rock	13	131	218	78	1.9	1,046	1	19	1,480		
15184	rock	3	218	16	9	0.4	86	1	1	2		
15185	rock	4	200	23	114	0.2	92	1	2	99		
15186	rock	4	42	21	31	1.3	108	1	2	89		
15187	rock	3	14,812	26	141	0.4	108	1	2	580		
15188	rock	2	275	6	6	0.1	54	1	2	10		
15189	rock	4	311	35	29	1.2	108	1	2	580		
15190	rock	2	117	12	24	0.1	11	1	2	10		
15191	rock	1	33	19	17	0.1	12	1	2	4		
15192	rock	1	23	13	14	0.1	12	1	2	4		
15193	rock	2	682	31	63	2.4	67	1	2	830		
15194	rock	1	3,098	4	32	0.1	112	1	2	600		
15195	rock	4	126	26	44	0.2	106	1	2	50		
15196	rock	2	2,199	41	64	0.1	69	1	2	460		
15197	sil	2	95	24	111	0.5	48	1	2	3		
15198	rock	3	28	13	11	0.1	14	1	2	3		
15199	rock	3	19	20	11	0.2	70	1	2	3		
15200	rock	24	33,624	40	100	2.2	117	5	2			
15201	rock	19	15	19	15	0.2	11	1	2	6	4.45	118
15202	rock	11	10,185	27	50	0.2	246	2	2			
15203	rock	12	1,185	12	12	0.1	11	1	2	2400	1.10	117
15204	rock	2	66	11	90	0.1	53	2	2	18		
15205	rock	18	165	18	25	0.1	11	1	2	16		
15206	rock	2	2,880	10	41	0.1	26	1	2	4,150		
15207	sil	2	371	16	37	0.4	31	2	2	47		
15208	rock	4	50,898	10	137	14.1	11	2	2	47		
15209	sil	1	26	15	17	0.1	30	1	2	19		
15210	sil	2	123	24	80	0.2	11	1	2	16		
15211	rock	5	1,329	45	142	1.5	809	2	2	109		
15212	rock	4	183	12	8	0.2	67	1	2	12		
15213	sil	2	15	15	15	0.2	8	1	2	1		
15214	sil	2	16	11	12	0.1	1	1	2	26		
15215	rock	18	195	186	145	4.2	78	1	2			
15216	rock	2	30	9	28	0.1	2	1	2			
15217	rock	11	12,650	41	73	10.4	157	1	2			
15218	rock	3	154	7	127	0.1	151	1	2			
15219	rock	3	150	13	49	0.2	7	1	2			
15220	rock	3	5,073	19	87	0.1	110	1	2			
15221	rock	7	105	39	44	0.2	997	1	2	72		
15222	rock	4	15,912	28	41	0.2	96	1	2			
15223	rock	2	6,884	30	45	0.2	96	1	2			
15224	rock	6	22	18	31	0.1	32	1	2			
15225	tabula	2	35	33	161	0.7	16	1	2			
15226	rock	24	26,381	55	537	5.7	25	2	2			
15227	rock	4	26,563	23	100	5.2	20	2	2			
15228	rock	4	6,859	6	40	0.1	8	1	2	3.01	117	
15229	rock	41	42,285	45	135	18.2	206	5	2			
15230	sil	2	61	18	93	0.1	11	1	2			
15231	sil	4	94	23	89	0.4	11	1	2			
15232	rock	7	5208	230	852	7.8	49	4	2			



NOTE: Topography based on photogram enlargement
N.T.S. 50,000 scale map 104A/5

SCALE 1:5,000

REVISED

R.B. Oct, 1986
R.B. May, 1988

TODD CREEK

NORTH ZONE

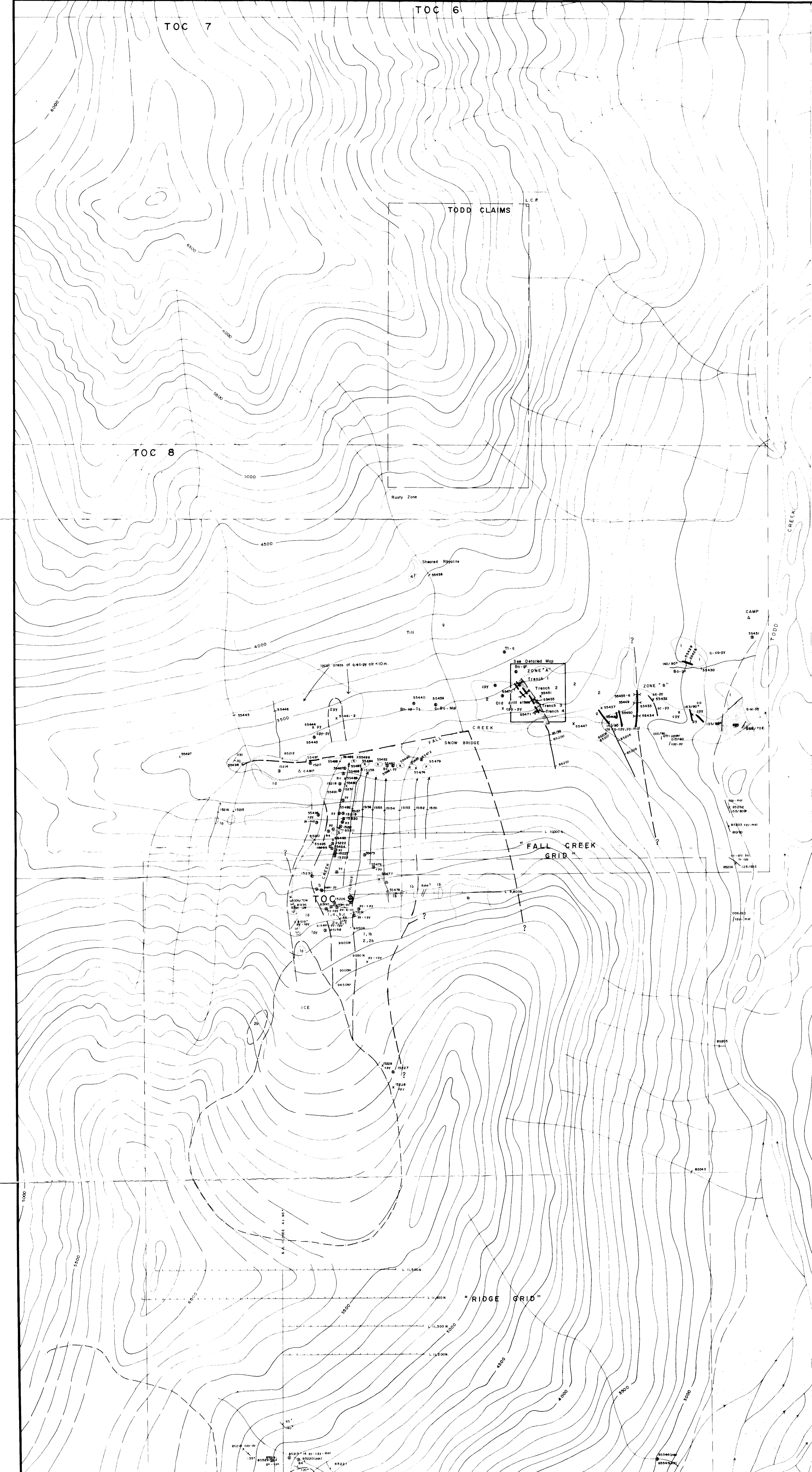
GEOLOGY MAP AND

ROCK, SILT SAMPLE LOCATIONS

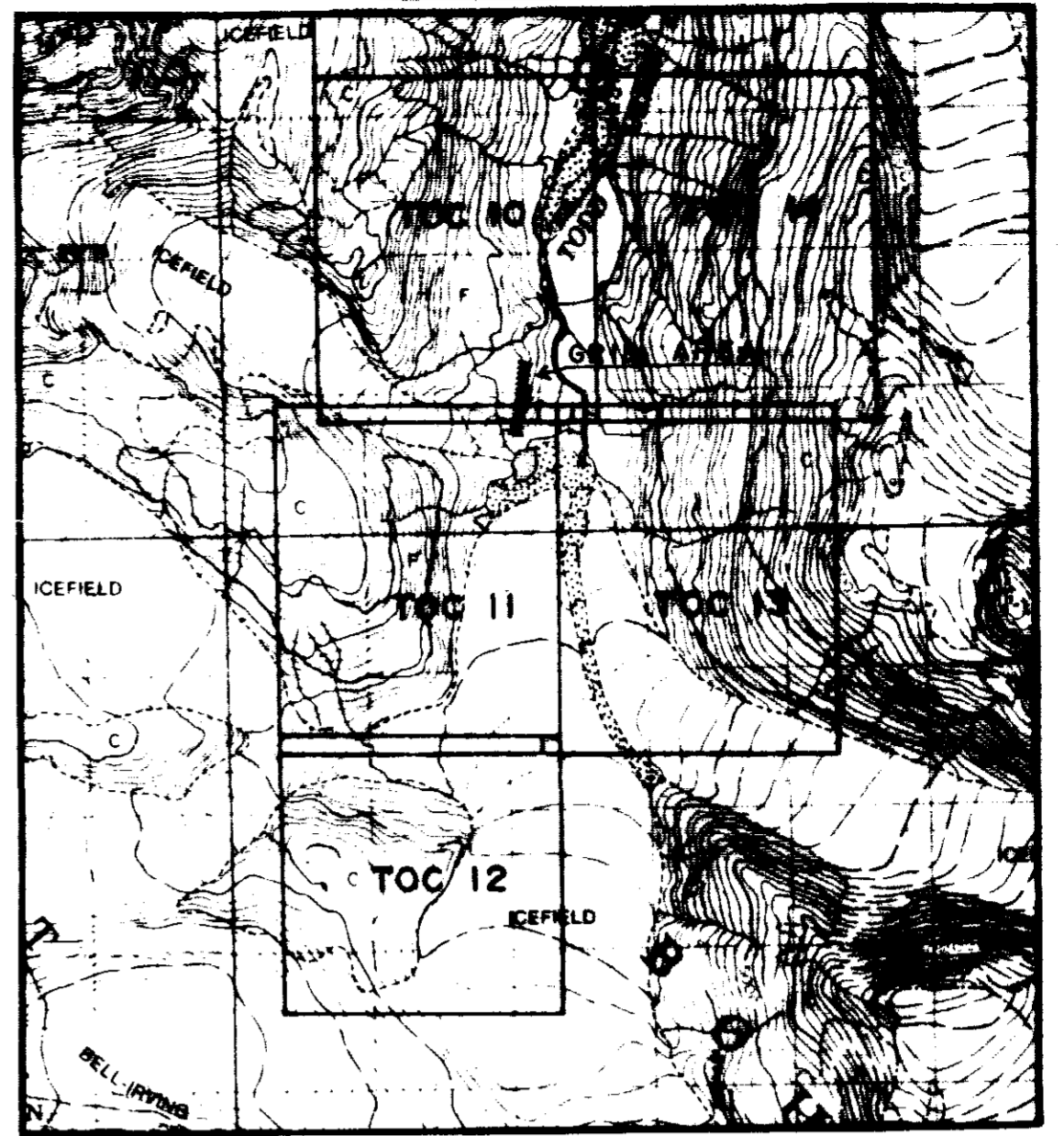
PROJ. No. 540 SURVEY BY: R.B. DATE: Aug 1986
N.T.S. 104A/5 DRAWN BY: S.K.B. SCALE: 1:5000

DWG. No. **NORANDA EXPLORATION**

FIG. 5 OFFICE: PRINCE GEORGE, B.C.



LOCATION MAP



0 1 2 3 Kilometres
SCALE 1:50,000

LEGEND

ROCK TYPES

- 1 Hornblende - Feldspar Porphyry Volcanic
- 1a Quartz +/- pyrite altered
- 1b Sericite - quartz +/- pyrite altered
- 1c Chlorite +/- quartz - epidote altered
- 1d Carbonate +/- quartz - pyrite - epidote altered
- 2 Andesite
- 2d Carbonate +/- hematite - pyrite altered
- Quartz - hematite - chalcopyrite +/- chlorite calcite breccia vein and/or stockwork
- Quartz - hematite chalcopyrite stringer zone
- Pyrite - sericite - chalcopyrite vein zone, massive veins to 20 cm wide
- Pyrite - sericite +/- chalcopyrite stringer zone

SYMBOLS

- Geological contact, inferred, defined
- Trench and chip sample area
- Fault
- 1987 D.D.H. LOCATIONS

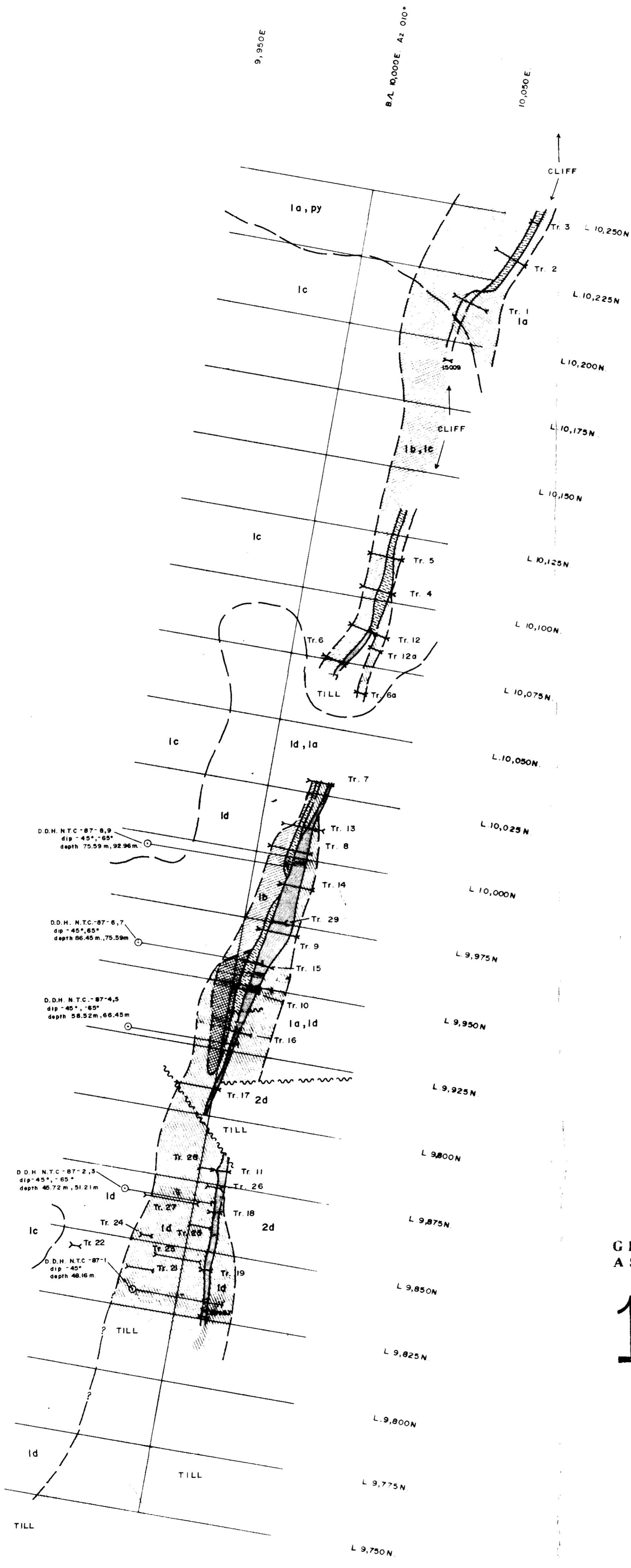


TABLE OF ASSAYS

TRENCH #	SAMPLE #	WIDTH (m)	Cu %	Au o.p.t.
1	15006	3.0	0.08	.001
1	15007	3.0	0.07	.001
1	15008	2.8	0.35	.025
2	15010	3.0	0.01	.001
2	15011	3.0	0.04	.001
2	15012	3.0	0.11	.001
2	15013	3.0	0.12	.012
3	15018	1.7	0.18	.020
4	15055	3.0	0.16	.021
4	15056	3.0	1.57	.043
4	15057	3.0	0.55	.004
4	15058	3.0	0.03	.001
5	15059	2.0	0.04	.003
5	15060	3.0	1.41	.000
5	15061	3.0	0.76	.058
5	15062	3.0	0.07	.004
6	15063	3.0	0.11	.072
6	15064	3.0	1.25	.088
6	15065	2.0	0.39	.013
6a	15167	3.0	0.02	.001
7	15066	3.0	0.28	.031
7	15067	3.0	0.41	.158
8	15068	3.0	0.26	.283
8	15069	3.0	0.72	.064
8	15070	3.0	0.06	.004
9	15071	2.5	0.16	.044
9	15072	3.0	0.10	.022
9	15073	3.0	0.03	.008
9	15074	3.0	0.01	.001
10	41808	3.0	0.28	.162
10	41809	3.0	2.76	.118
10	41810	3.0	0.55	.047
11	41812	3.0	0.48	.259
11	41813	1.5	0.59	.123
12	15160	3.0	0.03	.013
12	15161	3.0	0.33	.012
12	15162	3.0	0.61	.062
12	15163	3.0	0.05	.019
12	15164	3.0	0.03	.033
12	15165	3.0	0.02	.011
12a	15166	3.0	0.65	.064
13	15168	3.0	0.90	.003
13	15169	3.0	0.38	.008
13	15170	3.0	0.06	.017
13	15171	3.0	0.23	.128
14	15172	3.0	0.02	.001
14	15173	3.0	0.01	.001
14	15174	3.0	2.05	.115
14	15175	3.0	0.08	.041
15	15176	3.0	0.01	.002
15	15177	3.0	0.66	.130
15	15178	3.0	0.01	.011
16	15179	3.0	0.87	.037
16	15180	3.0	0.30	.061
16	15181	3.0	0.35	.007
17	15182	3.0	0.21	.029
17	15183	3.0	0.09	.022
17	15184	3.0	0.48	.135
18	15185	3.0	0.09	.066
19	15188	2.0	0.09	.087
20	80987	0.6	n/a	n/a
--	15009	1.0	2.25	.062

GEOLOGICAL BRANCH ASSESSMENT REPORT

17,423

*R.H.B. Barry
May 17 1987*

0 10 20 30 40 50 60 70 metres
SCALE 1:1,000

REVISED	TODD CREEK	
R B Oct 1987	SOUTH ZONE	
	GEOLOGY AND 1987	
	D.D.H.'s NTC 1-9	
PROJ. No. 281	SURVEY BY R.B.	DATE: Aug. 1987
NTS 104A/4	DRAWN BY S.K.B.	SCALE: 1:1000
DWG No	NORANDA EXPLORATION	
FIG. 6	OFFICE	PRINCE GEORGE B.C.

LOCATION MAP



SCALE : 100,000

LEGEND

ROCK TYPES

- 1 Feldspar Porphyry, pale brown, la-quartz-pyrite altered, lb-quartz-sericite pyrite altered
- 2 Dark green, maroon grey andesite flows, agglomerate tuff, breccia
- Quartz-pyrite +/- sericite altered mineralized zone

SYMBOLS

- Outcrop area
- - - Geologic contact defined, inferred
- Mineralized vein
- x, ● Rock, float sample
- Silt sample
- Glacier Hill
- Icefield
- Trench or chip sample line
- Strike and dip
- Fault

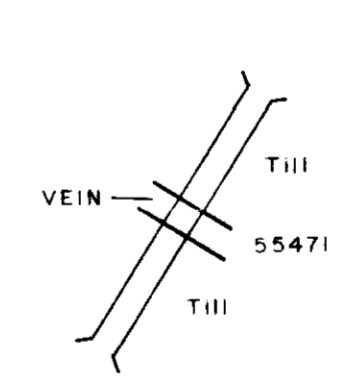
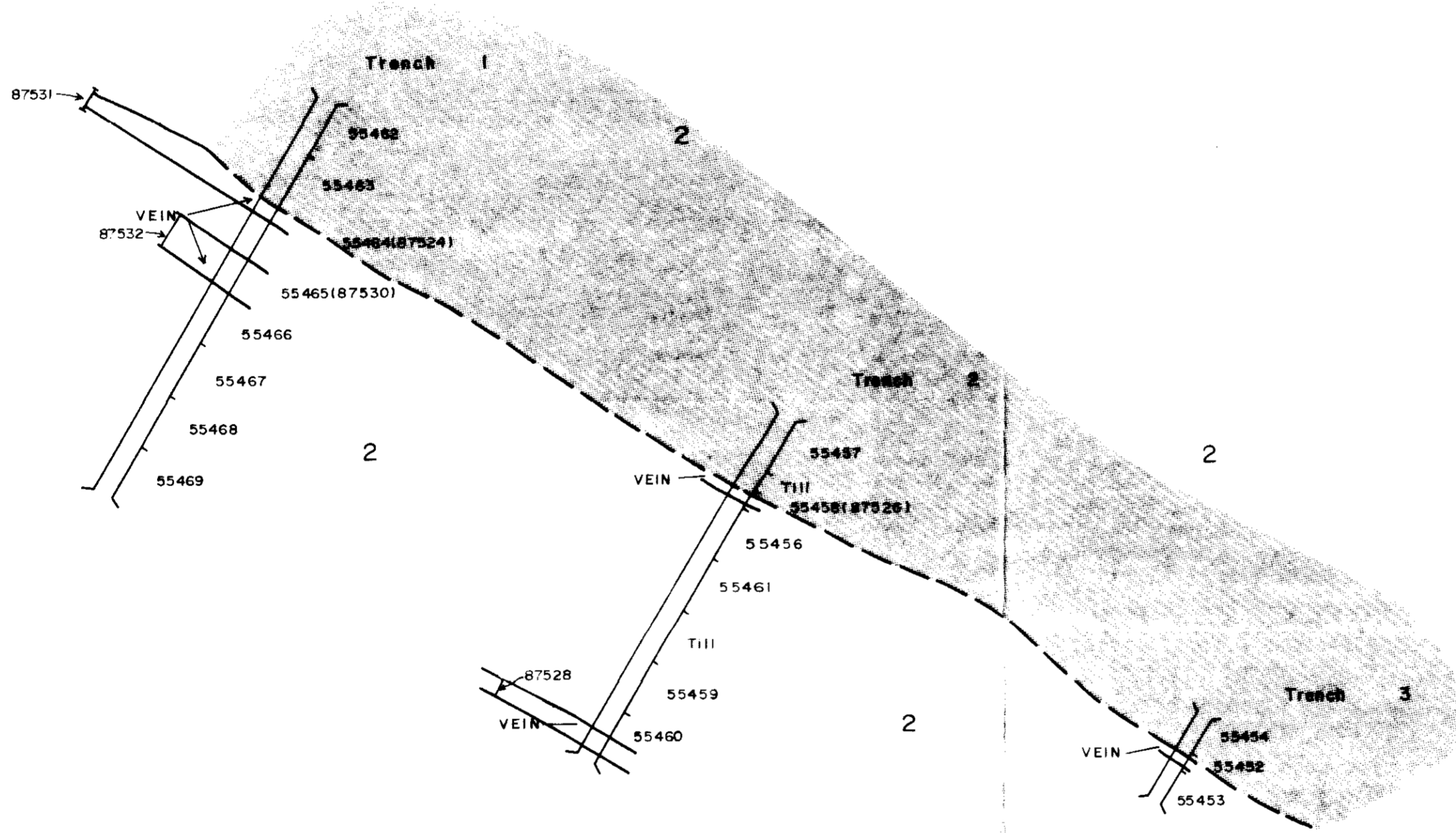


TABLE OF ROCK SAMPLE ANALYSIS

ALL VALUES IN ppm EXCEPT WHERE NOTED

SAMPLE #	TYPE	Mo	Cu	Pb	Zn	Ag	As	Cd	Sb	Au (ppb)	Cu \$	Au (oz/T)
55452	rock	14	8,250	247	1,226	13.5	46	6	2	-	.92	.013
55453	rock	3	1,862	27	135	0.9	15	1	2	-	.20	.001
55454	rock	3	59	12	76	0.5	9	1	2	-	.01	.001
55455	silt	2	157	23	114	0.3	40	1	2	26	-	-
55456	rock	5	6,240	73	306	2.7	72	4	2	-	.68	.001
55457	rock	7	30	121	187	0.8	12	4	7	-	.01	.001
55458	rock	19	6,668	1,172	3,130	20.2	37	23	5	-	.70	.016
55459	rock	6	186	43	45	0.4	21	1	2	-	.02	.001
55460	rock	11	1,711	52	390	4.4	35	3	2	-	.18	.013
55461	rock	8	319	22	150	0.3	21	1	2	-	.03	.001
55462	rock	7	26	22	99	0.3	49	1	2	-	.01	.001
55463	rock	6	17	19	92	0.3	25	1	2	-	.01	.001
55464	rock	26	6,227	80	919	3.0	167	11	2	-	.67	.011
55465	rock	9	917	102	113	1.2	28	6	2	-	.10	.003
55466	rock	26	41,484	51	398	14.1	109	7	2	-	5.39	.030
55467	rock	17	61	38	276	0.4	10	1	2	-	.01	.001
55468	rock	4	924	80	121	0.6	21	1	2	-	.10	.002
55469	rock	11	5,482	45	335	2.3	59	5	2	-	.53	.014
55471	rock	7	5,208	230	812	7.8	17	4	2	-	.59	.009
87526	rock	-	-	-	-	-	-	-	-	-	67	.035
87528	"	-	-	-	-	-	-	-	-	-	02	.001
87529	"	-	-	-	-	-	-	-	-	-	59	.018
87530	"	-	-	-	-	-	-	-	-	-	3.33	.024
87531	"	-	-	-	-	-	-	-	-	-	2.02	.011
87532	"	-	-	-	-	-	-	-	-	-	3.94	.031
87533	core	-	-	-	-	-	-	-	-	-	08	.001
87534	core	-	-	-	-	-	-	-	-	-	58	.223

GEOLOGICAL BRANCH ASSESSMENT REPORT

17,423

Robert B. Bay
May 19/88

SCALE 1:250

REVISED	TODD CREEK
	NORTH "A" ZONE
	TRENCH LOCATIONS
PROJ. No. 240	SURVEY BY: R.B. DATE: Sept. 1986
N.T.S. 104A/5	DRAWN BY: S.K.B. SCALE: 1:250
DWG. No.	NORANDA EXPLORATION
FIG. 11	OFFICE: PRINCE GEORGE, B.C.