86-1036-15515

ASSESSMENT REPORT

REPORT ON DIAMOND DRILLING

Project 264

TOMMY JACK CREEK

Au 1 - 4 , Tom Mineral Claims
Record Numbers 6256 - 6259, 6726

OMINECA MINING DIVISION
BRITISH COLUMBIA

NTS 94 D/ 4E

Latitude 56 deg. 07.9' N
Longitude 127 deg. ~~37'~~ 36.8' W

Work conducted
August - September 1986

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

Del Myers
Project Geologist
Rob Day
Consulting Geologist

Report written
March 1987

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SUMMARY

Ten diamond drill holes totalling 762 m (2500') were drilled on four sections to test Ag-Pb soil geochemical anomalies on the Tommy Jack Creek Property. The property is underlain by Bowser Lake Group sandstones, siltstones, and shales.

Subeconomic, mineralized, veinlet stockworks were intersected in most of the holes. The best intersection was in DDH TJ86-5 which averaged 4.3 ppm Au and 83.6 ppm Ag over 6.6 m from 21.6 to 28.2 m. This mineralization is associated with two faults.

Additional drilling is recommended both around this intersection and, more importantly, on additional soil geochemical anomalies.

INTRODUCTION

PURPOSE

Diamond drilling was undertaken on the Tommy Jack Creek property to test some of the soil geochemical anomalies outlined in 1985.

LOCATION AND ACCESS

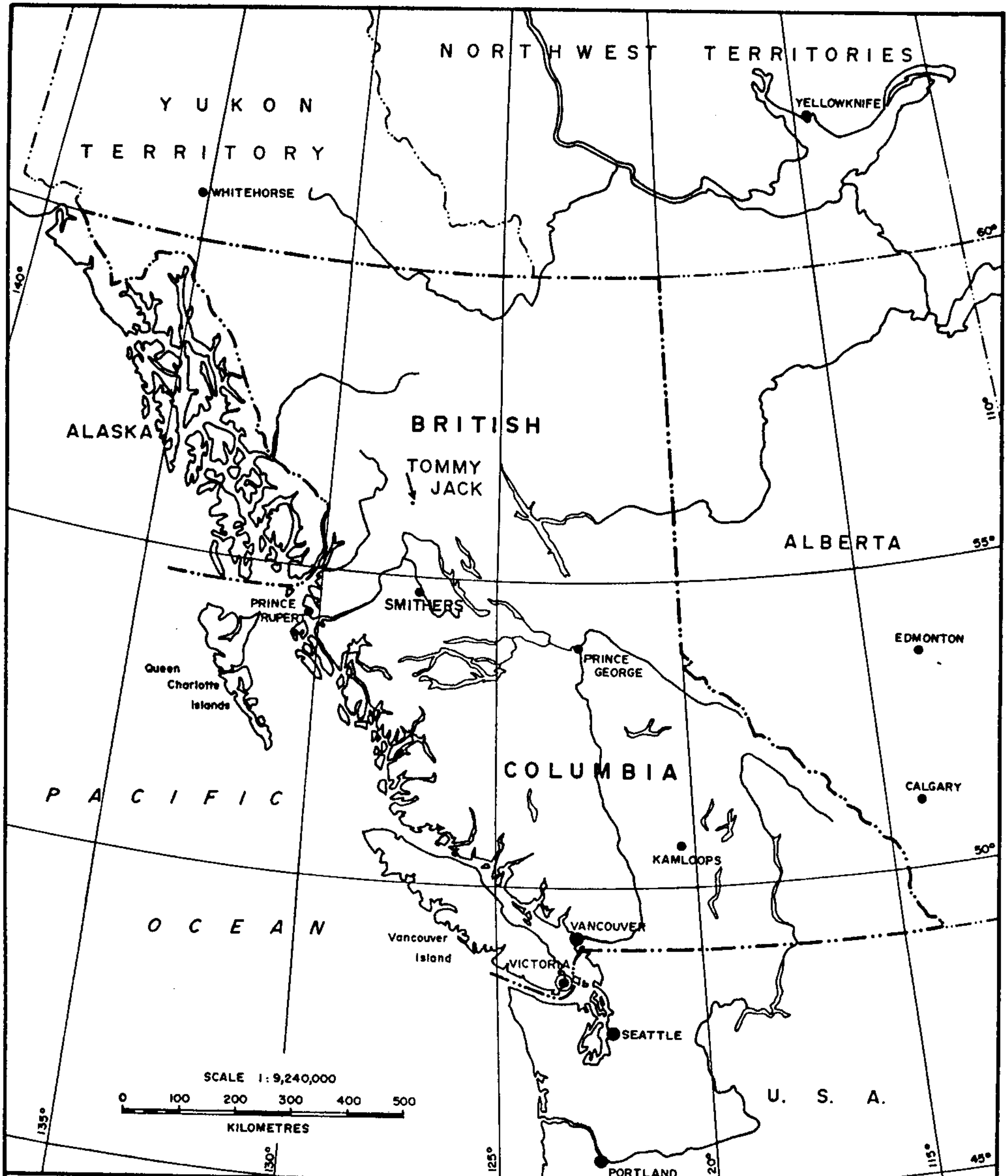
The Tommy Jack Creek property is located 95 km N of Hazelton, B.C. (Figure 1). The property lies along Tommy Jack Creek and covers its confluence with the Sicintine River. The Sicintine River is a tributary of the Skeena River.

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

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

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

Basing a helicopter on or near the property and suppling the camp with fixed wing flights to the Mosque airstrip might reduce transportation costs for the project.



noranda

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

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

Fig. 1

PROPERTY

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

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

the Tom group and
the Tommy Jack group.

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

REGIONAL GEOLOGY

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

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

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

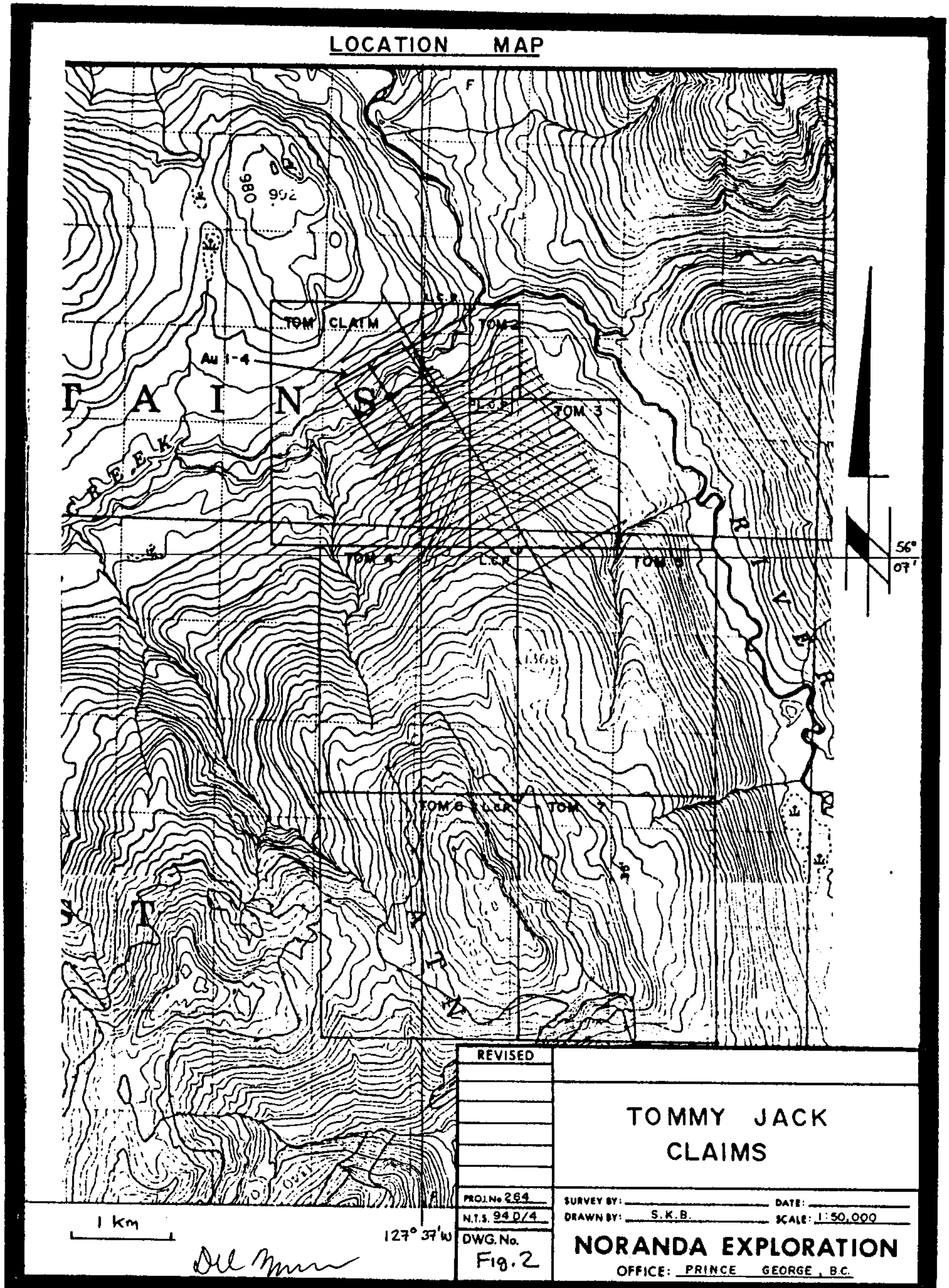

LOCATION MAP
TOM CLAIM
TOM 2
TOM 3
TOM 4
TOM 5
TOM 6
TOM 7
Au 1-4
L.C.P.
992
980
56°
07'
127° 37'W
1 km
REVISED
TOMMY JACK
CLAIMS
PROJ. No. 264
N.T.S. 94 D/4
DWG. No.
Fig. 2
SURVEY BY:
DATE:
DRAWN BY: S.K.B.
SCALE: 1:50,000
NORANDA EXPLORATION
OFFICE: PRINCE GEORGE, B.C.

Table 1. List of Claims

Claim Name	Record #	Record Date	Type	Units
Au 1	6256	84/6/12	2P	1
Au 2	6257	84/6/12	2P	1
Au 3	6258	84/6/12	2P	1
Au 4	6259	84/6/12	2P	1
Tom	6726	84/10/24	MG	20
Tom 2	7303	85/9/5	MG	2
Tom 3	7304	85/9/5	MG	9
Tom 4	7578	86/5/1	MG	20
Tom 5	7579	86/5/1	MG	20
Tom 6	7580	86/5/1	MG	20
Tom 7	7581	86/5/1	MG	20

PREVIOUS WORK

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

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

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

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

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

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

This report describes diamond drilling done on the property by Noranda in 1986. This work was financed by Goldcap, Inc. of Calgary under terms of their agreement with Noranda.

WORK UNDERTAKEN

Work done in 1986 on the Tommy Jack Creek property is based on geological and geochemical work done in 1984 and 1985 by Noranda.

Personnel and contractors employed on the project are listed in Appendix 1.

Phil's Diamond Drilling of 108 Mile House was contracted to drill 2500 feet (762m) of NQ core on the property. A crew of four men was eventually supplied. They used a Longyear Hydro-core Model 28 drill. Drill moves were done with either a Bell 206B (marginal, at load limit) or a Hughes 500D (better) helicopter.

Work began with mobilization and camp set-up beginning on 18 August. A camp was established at the Old Camp on Tommy Jack Creek (10,000 mN, 10,000 mE). Several drill sites were cleared and timbers for the drill were laid.

Bad weather delayed the drill move into the property. The drill, drilling equipment and supplies, and the remaining camp gear was slung into the property by helicopter on 24 and 25 August.

In all, ten holes totalling 762 m (2500 ft.) were drilled beginning on 29 August and finishing on 19 September. Production averaged 65.8 feet per shift from 25 August to 20 September. Waiting for parts at the start of the job lowered production, once drilling began production averaged 75.8 feet per shift (29 August to 19 September). Drill moves were done in less than a shift when a helicopter was available.

A shortage of water from nearby sources necessitated that long water lines be laid. Working earlier in summer would minimize this problem.

Core was logged and split in the field. Core is stored at the drill sites except for two boxes which were taken out to Prince George. One box was loaned to Rob Day of Goldcap Inc. Split samples of core were assayed in Vancouver for Au and Ag by Bondar-Clegg.

The drill was moved out on 20 September using two helicopters. Ten barrels of diesel fuel were backhauled into camp for use in 1987. Okanagan Helicopters of Smithers also hauled in some jet fuel for use in 1987.

The camp was closed with most of the gear left behind under cover on 23 September.

RESULTS

Four sections (Figures 3 to 6) show the ten holes drilled. Drill logs are included as Appendix 3. Geochemical analyses and assays of split drill core samples are given in Appendix 6.

DDH TJ86-1 to 3

Holes TJ86-1 to -3 were drilled on section 9250 mN (Figure 3) to test Ag and Pb soil geochemical anomalies as follow:

L 9300 mN	9620 mE	13 ppm Ag	1300 ppm Pb
	9640 mE	24	1200

The holes were drilled 50 m uphill from the anomalies to compensate for probable, downslope, geochemical dispersion.

These three holes were drilled as a fence starting with DDH TJ86-1 at 9580E and continuing east to the bottom of hole TJ86-2 at 9687 mE. A short -75 degree hole (TJ86-3) was drilled to aid in the interpretation of the section.

Several significant mineralized intersections were made:

DDH	Interval,m	Width,m	ppm Au	ppm Ag
TJ86-1	24.95-25.20	0.25	1.20	9.3
	61.6 -62.75	1.15	2.57	12.7
	64.5 -64.95	0.45	1.58	4.5
	78. -79.	1.0	3.63	23.0
TJ86-2	11.8 -11.9	0.1	18.31	46.6
	42.2 -45.5	3.3	2.01	35.3
	46.7 -47.15	0.45	9.6	121.7
	54.6 -55.6	1.0	2.09	2.7
	75.95-76	0.05	3.02	12.3
TJ86-3	11.85-12.15	0.3	5.01	17.8

Of these intersections the value of 2.01 ppm Au over 3.3m in hole TJ86-2 is the most significant. It is correlated on Figure 3 with mineralization in TJ86-1 at 61.6 and 64.5 m.

The mineralization consists of zones of quartz-carbonate (calcite and ankerite) veinlets of several orientations and usually less than 1 cm wide which carry pyrite, sphalerite, galena, arsenopyrite, pyrrhotite, and tetrahedrite (and

rarely ruby silver). Where mineralization is most intense or where the wallrock is more porous, disseminated grains or blebs of sulfides can be found surrounding the veinlets.

Both mineralized zones are below and close to a shallow west dipping fault. There seems to be an association of mineralization in or below faults.

The major lithologies on this and the other three sections are sandstones, siltstones, and claystones. All are varying shades of grey when fresh. The sandstones consist of a small percentage of dark sand grains with the lighter grains giving rise to a 'salt and pepper' pattern. No conglomerates were logged. When weathered, the rocks show a small percentage of ankeritic carbonate.

A hypabyssal dacite sill high in the three holes on this section appears to have the same apparent dip as the shallow west dipping faults. Two grab samples (34002 and 3) of the sill gave negligible Au and Ag assays (Appendix 5).

Bedding appears to dip more steeply than the faults and sill, but also to the west. It is somewhat problematic what the stratigraphic correlations are from hole to hole. The picture in Figure 3 is oversimplified. For instance, bedding angles with the core axis recorded in hole 1 were:

70,70,60,60,40,25,70 degrees, consecutively.

DDH TJ86-4 and -5

Figure 4 shows holes TJ86-4 and -5 which were drilled in a fence on section 9155 mN from 9801 mE to 9899 mE. These two holes tested soil geochemical anomalies at:

9200 mN,	9840 mE	22 ppm Ag and	1000 ppm Pb
	9860 mE	11	4100
	9900 mE	11	410

The anomaly at 9900 mE is only partially tested by hole 5 and an additional hole on the section covering from 9900 to 9930 mE would be necessary to test this anomaly completely. A hole drilled at minus 45 degrees to grid west from about 9930 mN would adequately test the soil anomaly at 9200 mN, 9900 mE.

The best mineralization of the program was intersected on this section. The better intersections are:

DDH	Interval,m	Width,m	ppm Au	ppm Ag
TJ86-4	24.1 -24.9	0.8	8.9	189.
	67.2 -68.1	0.9	4.12	7.6
TJ86-5	9.8 -11.8	2.0	1.95	29.6
	21.6 -28.2	6.6	4.3	83.6
	31.7 -32.7	1.0	1.75	5.5
	68.0 -69.0	1.0	1.34	14.1

A possible correlation between mineralization at 9.8 m in hole 5 with mineralization at 67.2 m in hole 4 is suggested on Figure 4. This is strictly a guess and should be tested with a second proposed hole on this section. A hole at minus 75 degree to grid east from the collar of DDH TJ86-5 would do this.

All the mineralization in hole 5 is found at or below interpreted faults but the association is not as straightforward in hole 4.

Dacitic intrusive was intersected by hole 4 but the contact angles are not known because of minor grinding of the drill core and very broken rock. None was found in hole 5.

There are more sandstones on this section and fewer claystones than on the previous section (Figure 3). Bedding angles in hole 4 were as follows:

40, 30, 40, 80-90, 60-70, 60, 45, 70, 65, 70 degrees,

probably indicative of folded beds. Lithological correlations between the two holes have not been attempted because of lack of marker sequences.

DDH TJ86-6 and -7

The next two holes (Figure 5) tested soil anomalies on L9600 mN as follow:

L 9600 mN	9940 mE	13. ppm Ag	200 ppm Pb
	10020 mE	5.4	230
	10040 mE	11.	120

Hole TJ86-6 was collared at 9920 mE and ended at 9979 mE. Hole TJ86-7 was collared at 10,007 mE and ended at 10,064 mE.

Only minor mineralization was intersected. Hole TJ86-6 intersected 1.71 ppm Au and 46.3 ppm Ag over 0.5 m from 26.6 to 27.1 m.

Core assay Ag values higher than soil anomaly values were obtained in both holes and may be the source of the soil anomalies. The soil geochemical anomalies may also result from dispersion downslope from a source further uphill. It is probably significant that Pb soil values here are lower than for either of the two previous, better mineralized, sections.

The better mineralization on hole 6 is associated with a fault. No correlation of structures or stratigraphy between holes 6 and 7 is shown on Figure 5 because of limited data.

Bedding angles with the core observed in hole 6 were:

30, 25, 40-45, 45, 35, 45, 30, 40, 35-40, 40-30, 25, 30, 30, 25, 60, 30, and 30 degrees, consecutively.

DDH TJ86-8 to -10

Holes TJ86-8 to -10 (Figure 6) were drilled on section 9400 mN. They tested soil geochemical anomalies at:

L 9400 mN	9780 mE	2.2 ppm Ag	130 ppm Pb
	9840 mE	5.2	46
	9940 mE	3.6	58
L 9450 mN	9940 mE	50.	92

DDH TJ86-8 was collared at 9757 mE and ended at 9815 mE. Hole TJ86-9 was collared at 9821 mE and ended at 9879 mE. Hole TJ86-10 was collared at 9900 mE and ended at 9960 mE.

The best gold mineralization was in hole 86-8 and the best silver mineralization was in hole 86-10 as follows:

DDH	Interval,m	Width,m	ppm Au	ppm Ag
TJ86- 8	33.6 -34.2	0.6	1.13	5.8
TJ86-10	57.8 -58.3	0.5	0.41	55.5

Note also that the Pb soil anomalies as much weaker on this section than for the first two sections.

No correlations are attempted on Figure 6 because of the wide spaces between drill holes.

Bedding angles with the core axis seen in hole 9 were:

10, 15, 15, 10, 40, 30, 30, 40-60, 30, 30, 25, 30, 40, 20, and 40-50 degrees, consecutively.

A 10 degree angle with the core axis (WCA) implies a moderate apparent easterly dip at the top of hole TJ86-9.

Several holes further south on the grid were not drilled because of cost factors: the cost of moving the camp and the cost of walking time if the camp were not moved. These holes should be drilled in 1987.

Seventeen DDH are proposed for 1987 and include:

14 holes to be drilled on untested soil geochemical anomalies from L 9000 mN south, and

4 holes to be drilled around DDH TJ86-4 and -5 (should be drilled last).

CONCLUSIONS

Significant, but subeconomic, mineralization was found on two of the four sections tested in 1986. The better intersections are:

DDH TJ86-2	3.3 m	@	2.01 ppm Au	35.3 ppm Ag
DDH TJ86-4	0.8 m	@	8.9 ppm Au	189 ppm Ag
DDH TJ86-5	6.6 m	@	4.3 ppm Au	83.6 ppm Ag

Mineralization consists of stockworks of quartz-carbonate veinlets in the hosting sediments and intrusive. These veinlets and sometimes the wall rocks are mineralized with pyrite, sphalerite, galena, arsenopyrite, pyrrhotite, tetrahedrite, and rarely ruby silvers.

Mineralization commonly occurs at or just below zones of broken or clayey rock which are interpreted to be faults. These zones are were probably important permeability controls.

Because of the lack of marker beds, the complex sequences of lithological units, the sparsity of drill holes, and the absence of wide, singular, mineralized structures; correlation between drill holes of mineralization, structure, and stratigraphy is uncertain. Drilling in 1987 should be done from both sides with more holes at different angles where significant mineralization is encountered.

Strong lead (>500 ppm) soil geochemical anomalies are the best indicators of significant bedrock mineralization.

RECOMMENDATIONS

1. Fourteen DDH should be drilled from L 9000 mN south to test various soil geochemical anomalies.

2. Some of these holes should be drilled from east of west and some from west to east. If significant mineralization is found steeper holes or holes from the other side should be drilled to determine to orientation of the mineralized zone.

3. Four holes could be drilled around DDH TJ86-4 and -5. One hole at -75 degree to the east from the collar of hole 5 should test to orientation of mineralization in hole 5. A hole collared to the east of hole 5 and drilled -45 degree west would finish testing a soil geochemical anomaly at 9200 mN, 9900 mE. One hole each 50m grid N and S of section 9155 mN should be drilled to test along strike.

4. The better 1986 drill intersections should be analysed for additional elements.

5. Sections showing the percentages of sulfides and veinlets in 1986 should be prepared (by computer drafting - this could be an integral part of a computer-aiding logging and plotting system).

REFERENCES

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

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

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

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

APPENDIX 1. Summary of 1986 Field Personnel

Name Address	Position	Dates worked on project in field	Man Days
Norm Bashor Box 2349 Smithers, B.C.	Field Assistant	19 August - 18 September	31
Simon Bergeron Box 563 Telkwa, B.C.	Cook	9 - 18 September	10
Rob Day c/o 15630-118 Ave. Edmonton, Alberta	Consulting Geologist	6 - 24 September	19
Del Myers 3A-1750 Quinn St. Prince George, B.C.	Project Geologist	19 August - 8 Sept. 20 - 24 September	27
Phil's Diamond Drilling 108 Mile House, B.C.	Drilling Contractor	17 August - 21 September	96
Van Alphen Exploration Services Smithers, B.C.	Falling Contractor	23 - 29 August	7
D.C. Forestry Services RR 2, Site 75, Comp 6 Smithers, B.C.	Falling Contractor	12 - 14 September	3
CJL Enterprises Smithers, B.C.	Expediting Contractor	19 August - 23 September	-
Peter E. Walcott & Associates Ltd. Coquitlam, B.C.	Geophysical Contractor	23 - 29 August	7
		Total	200

APPENDIX 2. Statement of Cost

Personnel			
	80 man days	at $ 150/man day	$ 12,000
Food and Accommodation			
	190 man days	at $ 43/man day	$ 8,170
Helicopter support			
	80.9 hours	at $ 470/hour	$ 38,023
Truck support			
	2 months	at $1023/month	$ 2,046
Analyses			
	191 assays (Au,Ag)	at $ 10	$ 1,910
Diamond Drilling			
	2500 feet	at $ 21.87/foot	$ 54,675
Falling Contractors			
	10 man days	at $ 200/man day	$ 2,000
Expediting			
	37 days	at $ 32/day	$ 1,181
Report Preparation			
	3 man days	at $ 250/man day	$ 750
		Total	$120,755

APPENDIX 3. Diamond Drill Hole Logs

List of abbreviations used on drill logs:

ank	ankerite
as	arsenopyrite
carb	carbonate
cc	calcite
deg	degrees
est	estimated
gmt	grams per metric ton = ppm
gn	galena
gy	gypsum
m	meters
med	medium
min	mineralization
no	number
po	pyrrhotite
py	pyrite
rec	recovery
sp	sphalerite
td	tetrahedrite
tr	trace

NORANDA EXPLORATION COMPANY, LIMITED
(No Personal Liability)

D.D.H.#: TJ86-1

DATE COLLARED: 29 August 1986 | DATE COMPLETED: 01 September 1986 | CORE SIZE: NQ | PROPERTY: TOMMY JACK | N.T.S. #: 94 D/04E

PROJECT #: 264

HOLE NO: TJ86-1

FIELD COORDINATES

LAT:	ELEV.	DIP:
9250N	932.3M	-45 deg.
DEP:	**LENGTH:**	**BEARING:**
9580E	84.7M	51 deg.

DIP TESTS

DEPTH	ANGLE REC.	ANGLE COR.
77.1m	51.9	44.5

FROM (m)	TO (m)	REC (%)	CLAY	SILT	SAND	DESCRIPTION	STRUCTURE m/deg. WCA	% VEINLETS	% SULPH.	EST. GRADE	SAMPLE NO.	INTERVAL	WIDTH (m)	ASSAYS AU (gmt)	ASSAYS AG (gmt)
0.0	7.00	0				No recovery - casing									
7.00	14.30	100	X	X		Claystone and Siltstone	bed 7.1/70 veinlet at 12.1/30	2, cc-qz	1/4 Py	nil					
14.30	14.70	100			X	Sandstone fine grain, coarser grained at bottom		3, cc-qz		nil					
14.70	15.60	100	X			Claystone-mainly med dark gray (N4)		2, cc-qz		nil					
15.60	16.00	100	x			Claystone-mainly grayish black (N2)		4, cc-qz	minor Py	nil					
16.00	16.80	100			X	Sandstone-fine grain, mainly medium gray (N5)		2, qz-cc	1/4 Py	nil					
16.80	19.30	100	X	X		Claystone and siltstone grayisn black (N2, N3)	bed at 19.0/70	3, cc	1/2 Py	nil					
19.30	19.50	100	X			Clay zone and broken shale Fault?		0		nil					
19.50	20.60	100	X		X	Claystone and sandstone thin bedded	bed at 19.8/70	3, cc	minor Py	nil					
20.60	20.80	100	X			Claystone-very fine grain, black (N1, N2)	parting at 60-65	1, cc	1 Py	nil					
20.80	21.35	100			X	Sandstone-fine grain, top contact gradational, medium dark gray (N4, N3)	bed at 60 veinlets at 0, 30	3,cc gypsum?	0	nil					
21.35	21.55	100	X	X		Claystone and siltstone, very fine to fine grain, dark gray (N2, N4), stockwork of quartz cc veinlets.	veinlets at 10, 30, 70 90.	25, qz-cc	1/4 Py	nil					

FROM (m)	TO (m)	REC (%)	CLAY	SILT	SAND	DESCRIPTION	STRUCTURE m/deg. WCA	% VEINLETS	% SULPH.	EST. GRADE	SAMPLE NO.	INTERVAL	WIDTH (m)	ASSAYS AU (gmt)	ASSAYS AG (gmt)
21.55	24.80	100			X	Sandstone-fine grain, mainly med. dark gray (N4), some black sand grains in rock (as in all sandstones in this hole).	veinlets/10 30, 40	2, qz-cc sph at 24.1 m	1/4 Py	low	86524	23.80-24.80	1.00	0.07	1.40
24.80	24.95	100				Quartz veinlet, very fine grain pyrite, mainly med. light gray (N6, N7)	/50-60	85 qz 10 cc 5 ch	1 Py	med	86525	24.80-24.95	0.15	0.10	1.40
24.95	25.20	100	X			Claystone and clay, mineralized, possible fault with clay gouge zone, very fine grain, mainly grayish black (N2)	veinlets/20, 30	5, qtz-cc	3 Py 1 Sp 1 Gn	high	82351	24.95-25.20	0.25	1.20	9.30
25.20	27.20	100	X	X	X	Sandstone grading into claystone. Fine grain sand at top grading into clay size particles at base, dark gray (N2 to N4), in part thinly bedded	bed/60 veinlets/10, 45, 60	2 qz-cc ank-gypsum?	1/4 Py, Po, Sp	low	82352	25.20-26.20	1.00	0.07	0.70
27.20	27.65	100			X	Sandstone-fine grain, graduational contact at bottom, mainly dark gray (N3)	veinlets/40	2, cc-qz	tr py	nil					
27.65	27.85	100		X		Siltstone-very fine grain, mainly grayish black (N2)		2, cc	1/2 Py	nil					
27.85	31.10	100		X		Siltstone-v. fine to fine grain, mainly massive, grays, (N2 at top, mainly N4 otherwise), broken at bottom-fault?	parting/75 veinlets/55	2, cc	1/2 Py	nil					
31.10	33.65	100				Dacitic feldspar porphyry very fine grain matrix with phenocrysts to 5mm, greenish gray at top (5 G 5/1), somewhat lighter at base.	contacts/25, 20 veinlets/0, 60, 80	3, cc	1 diss Py	nil					
33.65	34.60	100	X	X		Claystone grading into siltstone		4,	minor Py	nil					
34.60	37.20	100			X	Sandstone	bed 35.5/40	2, cc	0	nil					
37.20	37.25	100				Qz-cc-claystone fragment breccia vein		100	2 Py	low	82353	37.20-37.25	0.05	0.07	1.40
37.25	42.55	100		X	X	Sandstone and siltstone	bed 42.2/25	2, cc	0	nil					

PROPERTY: TOMMY JACK HOLE NO.: TJ86-1

FROM (m)	TO (m)	REC (%)	CLAY	SILT	SAND	DESCRIPTION	STRUCTURE m/deg. WCA	% VEINLETS	% SULPH.	EST. GRADE	SAMPLE NO.	INTERVAL	WIDTH (m)	ASSAYS AU (gmt)	ASSAYS AG (gmt)
42.55	45.80	100	X	X		Siltstone and claystone 10cm cc stockwork at 44m		3, cc	1/4 Py	nil					
45.80	47.70	100	X	X		Claystone and siltstone possible fault at 46.2m clay gouge		1, cc	1/4 Py	nil					
47.70	49.9	100		X		Siltstone		1, cc	minor Py	nil					
49.90	61.60	100			X	Sandstone-mainly massive, fragments at top (conglomeratic)	bed at 60/70	2, cc-qz	minor Py	nil					
61.60	62.75	100	X	X		Siltstone and claystone mineralized, v. fine/fine grain, coarsest in center, dark grays (N4 + N3), some- what brecciated at top and base, clayey at top	veinlets/30, 50 bed/50	10 qz-carb	3 Py 1 Sp 1/2 Gn tr ruby silver	med	82354	61.60-62.75	1.15	2.57	12.70
62.75	64.50	100		X	X	Siltstone and sandstone Fine grained, finer grained at top.	minor brec- ciation at 63.3, 65.5 bedding at 64.3/50 veinlets/40	5, qz-carb	1 Py minor Sp, As	low	82355 82356	62.75-63.50 63.50-64.50	0.75 1.00	0.99 0.17	4.50 2.10
64.50	64.95	100	X	X		Claystone and siltstone mineralized, very fine/fine grained, mostly grayish black (N2)	parting/75 veinlets/60	10, qz-carb	3 Py 1 Sp minor As	low	82357	64.50-64.95	0.45	1.58	4.50
64.95	71.60	100			X	Sandstone-finer grained at top, mainly fine grain sand, grays (N3-N5), massive to poorly bedded, upper contact gradational, sulfides mainly at top, olive green serpen- tine? on fractures.	conglomerate at top veinlets 68.4/60, 15	5, qz-carb	2 Py minor Sp, Gn, As	low	82358 82359 82360 82361 82362 82363 82364	64.95-66.00 66.00-67.00 67.00-68.00 68.00-69.00 69.00-70.00 70.00-71.00 71.00-71.60	1.05 1.00 1.00 1.00 1.00 1.00 0.60	0.72 0.51 <0.07 0.31 0.07 0.17 0.86	9.90 1.70 0.70 1.70 1.40 1.00 3.40
71.60	74.40	100	X	X		Claystone and siltstone Very fine/fine grain/finest grained at bottom, mainly dark gray (N2, N3)	veinlets/40, 30, 60 parting/65	5, qz-carb	3 Py minor Sp, Gn, As	low	82365 82366 82367	71.60-72.40 72.40-73.40 73.40-74.40	0.80 1.00 1.00	0.21 0.62 <0.07	5.10 2.70 1.40
74.40	77.00	100			X	Sandstone-fine grain, mainly dark gray (N3). Chlorite? with some veinlets		5, qz-cc	1 Py minor Sp, Gn	low	82368 82369	74.40-75.70 75.70-77.00	1.30 1.30	0.27 0.48	1.70 3.40

NORANDA EXPLORATION COMPANY, LIMITED
(No Personal Liability)

D.D.H.#: TJ86-1

PROPERTY: TOMMY JACK

HOLE NO.: TJ86-1

FROM (m)	TO (m)	REC (%)	CLAY	SILT	SAND	DESCRIPTION	STRUCTURE m/deg. WCA	% VEINLETS	% SULPH.	EST. GRADE	SAMPLE NO.	INTERVAL	WIDTH (m)	ASSAYS AU (gmt)	ASSAYS AG (gmt)
77.00	80.10	100	X	X		Claystone and siltstone	veinlets/20,	5, qz-carb	2 Py	med	82370	88.00-78.00	1.00	0.27	1.70
						very fine grain, mainly	40		1/2 Sp		82371	78.00-79.00	1.00	3.63	23.00
						grayish black (N2,N3) abrupt			1/2 Gn		82372	79.00-80.10	1.10	0.07	1.70
						contact at top, gradational			tr. As						
						at bottom.									
80.10	81.75	100		X	X	Sandstone and siltstone	veinlets/	2, qz-cc	1 Py	low	82373	80.10-81.10	1.00	0.27	2.10
						Fine grained, coarser towards	45, 35		minor Sp		82374	81.10-81.75	0.65	0.21	2.10
						bottom, grays (N2-N4),									
						gradational contact at top,									
						sharp contact at base,									
						massive to vaguely bedded.									
81.75	84.70	100		X		Siltstone	bed/45,55	3, qz-cc	1 Py	low	82375	81.75-82.75	1.00	0.70	2.10
						Fine grained, med. dark gray	veinlets/30		minor Sp,		82376	82.75-83.75	1.00	0.31	1.70
						(N4 to N3)			Gn		82377	83.75-84.70	0.95	0.24	1.70
84.70						E.O.H. (278 feet)									

LOGGED: 1 - 2 SEPTEMBER 1986/DEL MYERS

Del Myers

NORANDA EXPLORATION COMPANY, LIMITED
(No Personal Liability)

D.D.H.#: TJ86-2

DATE COLLARED: 02 September 1986

DATE COMPLETED: 05 September 1986

CORE SIZE: 47 mm

PROPERTY: TOMMY JACK

N.T.S. #: 94 D/04E

PROJECT #: 264

FIELD COORDINATES

LAT:	ELEV.	DIP:
9248N	938.8M	-45 deg.
DEP:	**LENGTH:**	**BEARING:**
9628E	83.2M	60 deg.

DIP TESTS		
DEPTH	ANGLE REC.	ANGLE COR.

HOLE NO: TJ86-2

FROM (m)	TO (m)	REC (%)	CLAY	SILT	SAND	DESCRIPTION	STRUCTURE m/deg. WCA	% VEINLETS	% SULPH.	EST. GRADE	SAMPLE NO.	INTERVAL	WIDTH (m)	ASSAYS AU (gmt)	ASSAYS AG (gmt)
0.00	3.20	0				No recovery - casing									
3.20	3.60	100		X	X	Sandstone and siltstone bedded, no veinlets	bed/80	0	0	nil					
3.60	4.85	100	X	X		Siltstone and claystone bedded	bed/80 veinlets/70	3, cc	1/2 Sp minor Py	low	82378	3.60-4.85	1.25	0.07	1.00
4.85	6.20	100			X	Sandstone Fine grain	bed/40 at 6.1m veinlets/5, 25, 70	1, cc	1/4 Py Sp	low	82379	4.85-6.20	1.35	0.10	1.00
6.20	7.95	100	X	X		Claystone and siltstone bedded	bed 6.6/50 veinlets/30, 80	2, cc-qz	minor Py	nil					
7.95	8.40	100			X	Sandstone Fine grain sand		3, cc-qz	0	nil					
8.40	10.75	100				Dacitic intrusive irregular shaped waxy, pale green fragments to 5mm	contacts at irreg, 80 veinlets/10 20, 30	2, cc	1 diss Py	nil					
10.75	11.80	100	X	X		Siltstone grading down into claystone	veinlets/10, 25	3 cc-py-qz	2 Py	low	82380	10.75-11.80	1.05	0.27	3.80
11.80	11.90	100				Pyrite-quartz-shale fragment and parting veinlet	contacts/70 60	30 qz 17 clayst	50 Py 2 Sp 1 Gn	med	82381	11.80-11.90	0.10	18.31	46.60
11.90	13.25	100			X	Sandstone, weathered, faulted Fine/med grain sand Faulted with minor clay gouge	shears/60 faulted	5 qz-cc-gy	2 Py 1 Sp 1/2 Gn	med	82382	11.90-13.25	1.35	0.27	4.10

FROM (m)	TO (m)	REC (%)	CLAY	SILT	SAND	DESCRIPTION	STRUCTURE m/deg. WCA	% VEINLETS	% SULPH.	EST. GRADE	SAMPLE NO.	INTERVAL	WIDTH (m)	ASSAYS AU (gmt)	ASSAYS AG (gmt)
13.25	13.90	100				Dacitic intrusive w/o pale green spots of previous intrusive, otherwise similar		3, cc-qz	1 diss Py 1/4 Sp	low	82383	13.25-13.90	0.65	0.07	1.70
13.90	14.05	100			X	Sandstone		5, qz-cc	2 Py 1 Sp	med	82384	13.90-14.05	0.15	0.07	1.40
14.05	14.20	100				Dacitic intrusive Same as 13.25-13.90 except...	contact 14.2/70	5, cc	1 diss Py	low	82385	14.05-14.20	0.15	0.51	3.40
14.20	15.70	100	X	X		Siltstone and claystone bedded, folded	veinlets/10 40, 70	4, qz-cc	1 Py minor Sp	low	82386 82387	14.20-15.00 15.00-15.70	0.80 0.70	0.07 0.17	16.10 9.60
15.70	17.15	100			X	Sandstone	veinlets/50, 60, 80	5, qz-cc	2 Py 1 Sp 1/2 Gn	med	82388 82389	15.70-16.50 16.50-17.15	0.80 0.65	0.89 0.27	25.70 9.90
17.15	17.90	100		X		Siltstone	veinlet 17.4/50	5 qz-cc	1 Py minor Sp	low	82390	17.15-17.90	0.75	0.14	5.50
17.90	18.10	100	X			Claystone - very fine grain, grayish black (N2)		1 cc	1/4 Py	nil					
18.10	24.10	100		X	X	Siltstone to sandstone very coarse silt or very fine grain sand. Mainly massive except at bottom	bed 23.4/20	2 cc	minor Py	nil					
24.10	24.50	100	X			Claystone - very broken	veinlets/70, 80	20 qz-cc	1 Py	low	82391	24.10-24.50	0.40	(0.07	1.00
24.50	27.70	100		X		Siltstone - mainly massive	veinlets/30, 65	1 cc	0	nil					
27.70	30.55	100			X	Sandstone -fine gain sand massive	veinlets/15, 60	1 cc	0	nil					
30.55	31.00	100		X		Siltstone - rather broken veinlets partly as gash fillings	veinlets/40, 75	3 cc	0	nil					
31.00	31.80	100			X	Sandstone - fine grain sand with black specks as normal, massive	veinlets/15, 30	1/2 cc	0	nil					

FROM (m)	TO (m)	REC (%)	CLAY	SILT	SAND	DESCRIPTION	STRUCTURE m/deg. WCA	% VEINLETS	% SULPH.	EST. GRADE	SAMPLE NO.	INTERVAL	WIDTH (m)	ASSAYS AU (gmt)	ASSAYS AG (gmt)
31.80	37.30	100		X	X	Siltstone and sandstone coarse silt to fine sands, mainly massive, rather broken at bottom	bed 32.4/20	1 cc	0	nil					
37.30	38.50	90		X	X	Sandstone and siltstone fine grain, mainly massive, broken	bed 38/60	1 cc	minor py	nil					
38.50	39.30	90		X	X	Siltstone and sandstone massive	veinlets/55, 60	1 cc	0	nil					
39.30	39.50	90			X	Sandstone	bed/45	0	0	nil					
39.50	39.75	90	X			Clay and claystone very broken	probable fault	2 cc-qz	1/2 py	low	82392	39.50-39.75	0.25	<0.07	0.70
39.75	40.80	90		X	X	Sandstone and siltstone partly broken core	veinlets/45, 75	2 cc	0	nil					
40.80	41.10	90	X			Clay and claystone very broken and weathered,	probable fault	3 qz-cc	2 py	low	82393	40.80-41.10	0.30	0.65	3.10
41.10	45.50	95		X		Siltstone - mineralized, very fractured	faulted	12 qz-carb	3 py 1.5 sp 1 gn	high	82394 82395 82396 82397	41.10-42.20 42.20-43.30 43.30-44.40 44.40-45.50	1.10 1.10 1.10 1.10	0.27 1.99 2.09 1.95	4.10 56.20 28.10 21.60
45.50	46.20	80		X	X	Siltstone and sandstone mineralized, very broken		10 qz-carb	2 py 1/2 gn, sp	med	82398	45.50-46.20	0.70	0.34	3.40
46.20	46.70	100		X	X	Sandstone and siltstone		4 qz-carb	1 py	low	82399	46.20-46.70	0.50	0.17	2.40
46.70	47.15	100				Quartz-carbonate veined sediment	veinlets/30, 40	50 qz-carb	10 py 4 sph 2 gn	high	82400	46.70-47.15	0.45	9.60	121.70
47.15	48.00	100		X		Siltstone - mineralized	veinlets/60 irreg. & folded also	12 qz-carb	4 py 2 sp 1 gn	med	82401	47.15-48.00	0.85	0.55	9.90
48.00	48.70	100		X		Siltstone - massive	veinlets/20 60	4 qz-cc	1 py minor sp	low	82402	48.00-48.70	0.70	0.34	6.50
48.70	49.60	100	X	X		Siltstone and claystone mineralized - in part qz-carb filled breccia, in part qz- carb veinlets	veinlets/50, 10 and irreg	15 qz-carb	4 py 2 sp 1 gn	med	82403	48.70-49.60	0.90	0.75	8.20

N O R A N D A   E X P L O R A T I O N   C O M P A N Y ,   L I M I T E D
(N o   P e r s o n a l   L i a b i l i t y)

D.D.H.#: TJ86-2

PROPERTY: TOMMY JACK   HOLE NO.: TJ86-2

FROM (m)	TO (m)	REC (%)	CLAY	SILT	SAND	DESCRIPTION	STRUCTURE m/deg. WCA	% VEINLETS	% SULPH.	EST. GRADE	SAMPLE NO.	INTERVAL	WIDTH (m)	ASSAYS AU (gmt)	ASSAYS AG (gmt)
49.60	50.05	100		X		Siltstone - massive	veinlets/50, 55, 70	4 qz-carb	2 py	low	82404	49.60-50.05	0.45	0.41	2.40
50.05	52.00	100		X		Siltstone - mineralized	veinlets/40, 50, 60	7 qz-carb	2 py minor sp, gn	med	82405	50.05-51.00	0.95	1.13	14.70
											82406	51.00-52.00	1.00	0.38	5.80
52.00	52.90	100		X		Siltstone	veinlets/20, 30, 70	5 qz-carb	3 diss & vein. py	low	82407	52.00-52.90	0.90	0.38	3.80
52.90	53.90	100		X		Siltstone	veinlets/10, 30, 50	10 qz-carb	3 py 1 sp minor gn	med	82408	52.90-53.90	1.00	0.79	3.40
53.90	56.60	100		X		Siltstone - in part cm bedded	veinlets/40, 70 bed 54.6/10	10 qz-carb	2.5 py .5 sp minor gn	med	82409	53.90-54.60	0.70	0.45	3.80
											82410	54.60-55.60	1.00	2.09	2.70
											82411	55.60-56.60	1.00	0.24	1.70
56.60	57.20	100		X		Siltstone - bedded, folded	bed at 30 veinlets/30, 50, 60	4 qz-carb	1/4 py	low	82412	56.60-57.20	0.60	0.07	1.40
57.20	60.75	100	X	X		Siltstone with minor claystone, mainly massive	veinlets/40, 50, 80	10 qz-carb	2 py 1 gn minor sp as	med	82413	57.20-57.75	0.55	0.27	2.10
											82414	57.75-58.75	1.00	0.07	1.70
											82415	58.75-59.75	1.00	0.34	2.70
											82416	59.75-60.75	1.00	1.10	13.70
60.75	62.55	100		X		Siltstone - bedded		5 qz-carb	2 py	low	82417	60.75-61.75	1.00	0.51	2.10
											82418	61.75-62.55	0.80	0.10	2.10
62.55	63.60	100	X	X	X	Claystone grading into sandstone. Very fine grain at top to medium grain at base	bed 63.6/30	2 qz-carb	2 py	low	82419	62.55-63.60	1.05	0.07	1.70
63.60	63.90	100	X			Claystone	veinlets/30	20 qz-carb	2 py .5 sp	low	82420	63.60-63.90	0.30	0.17	7.90
63.90	64.45	100			X	Sandstone - fine grain	veinlets/20 60	3 cc-qz	1 py minor sp gn	low	82421	63.90-64.45	0.55	0.14	2.10
64.45	65.20	100	X	X		Claystone and siltstone somewhat broken with irregular veinlets	veinlets/40 60	10 qz-carb	3 py trace gn	low	82422	64.45-65.20	0.75	0.89	24.30
65.20	66.60	100		X	X	Siltstone and sandstone	bed 66.3/50 veinlets/0, 30	5 qz-carb	.5 py minor sp	low					

PROPERTY: TOMMY JACK HOLE NO.: TJ86-2

FROM (m)	TO (m)	REC (%)	CLAY	SILT	SAND	DESCRIPTION	STRUCTURE m/deg. WCA	% VEINLETS	% SULPH.	EST. GRADE	SAMPLE NO.	INTERVAL	WIDTH (m)	ASSAYS AU (gmt)	ASSAYS AG (gmt)
66.60	66.95	100	X	X		Siltstone and claystone	bed/50 veinlets/75	1 cc	1 py	low					
66.95	69.75	100		X	X	Siltstone and sandstone	veinlets/50, 65	1 qz-cc	.5 py minor sp	low					
69.75	71.90	100			X	Sandstone - Fine grain, vaguely bedded	71m bed/55 veinlets/40, 75	2 qz-cc	minor py sp	low					
71.90	72.00	100			X	Quartz-carbonate filled, brecciated sandstone	contact/45, 25	30 qz 20 carb	2 sp	med	82423	71.90-72.00	0.10	<0.07	1.70
72.00	73.50	100			X	Sandstone - bedded	bed 72.7/30 fault 72.9/ 30	2 cc-qz	minor sp py	low					
73.50	74.60	100			X	Sandstone - massive	min veinlets at 25, 35	5 qz-carb	1/2 sp py, gn	low	82424	73.50-74.60	1.10	0.07	2.10
74.60	75.95	100			X	Sandstone - bedded	bed 75.6/30	1 carb-qz	1/4 py sp, gn	low					
75.95	76.00	100				Quartz-carbonate-pyrite veinlet	contacts/60, 40	70 wh qz 20 wh carb	10 py minor gn	med	82425	75.95-76.00	0.05	3.02	12.30
76.00	83.20	100			X	Sandstone - Fine grain with black specks. Massive in sections, bedded in sections.	76.6m 1cm min veinlet at 30 78m bed/65 81m 3cm min veinlet/35 81.6m bed/60 82.1m 1cm min veinlet at 25	3 qz-carb	.5 py .25 sp minor gn	low					
83.20						E.O.H. (273 feet)									

LOGGED: 3 - 5 SEPTEMBER 1986 / DEL MYERS

Del Myers

NORANDA EXPLORATION COMPANY, LIMITED
(No Personal Liability)

D.D.H.#: TJ86-3

DATE COLLARED: 05 September 1986
DATE COMPLETED: 06 September 1986
CORE SIZE: 47 mm
PROPERTY: TOMMY JACK
N.T.S. #: 94 D/04E
PROJECT #: 264

HOLE NO: TJ86-3

FIELD COORDINATES

LAT:	ELEV.	DIP:
9248N	938.8M	-75 deg.
DEP:	**LENGTH:**	**BEARING:**
9627E	30.2M	60 deg.

DIP TESTS: DEPTH	ANGLE REC.	ANGLE COR.

FROM (m)	TO (m)	REC (%)	CLAY	SILT	SAND	DESCRIPTION	STRUCTURE m/deg. WCA	% VEINLETS	% SULPH.	EST. GRADE	SAMPLE NO.	INTERVAL	WIDTH (m)	ASSAYS AU (gmt)	ASSAYS AG (gmt)
0.00	2.40	0				No recovery - casing									
2.40	2.90	100		X	X	Sandstone/siltstone Fine grain sand/coarse silt somewhat weathered	min veinlets at 25	2 qz-carb	1/2 py	nil					
2.90	3.45	100	X	X		Claystone and siltstone	min veinlets at 25, 45	7 qz-carb	2 py	low	82426	2.90- 3.45	0.55	0.10	3.10
3.45	4.50	100		X	X	Sandstone grading into siltstone, bedded in part	4.4m bed/65 min veinlets at 50	3 qz-carb	1/2 py minor sp	low	82427	3.45- 4.50	1.05	<0.07	1.70
4.50	4.80	100	X	X		Siltstone and claystone		1 carb	1/2 py	nil					
4.80	5.50	100		X	X	Siltstone and sandstone bedded but faulted	min veinlets at 45, 55 bed/60	6 qz-carb	1 py minor sp	low	82428	4.80- 5.50	0.70	<0.07	2.40
5.50	6.30	100	X	X		Claystone and siltstone	parting/70 min veinlet at 35	2 qz-carb	1/2 py minor sp	low	82429	5.50- 6.30	0.80	<0.07	0.70
6.30	7.30	100			X	Sandstone - massive	bottom contact/60	1 carb-qz		nil					
7.30	7.90	100	X	X		Claystone and siltstone bedded	bed/70	1 carb		nil					
7.90	8.30	100		X	X	Sandstone and siltstone bedded		2.5 carb		nil					
8.30	9.40	100	X	X		Siltstone and claystone bedded	bed/70	2 carb-qz		nil					
9.40	11.85	100				Dacitic intrusive sill	min veinlets at 40, 65 contacts at 30, 70	9 qz-carb	2.5 diss & veinlet py, 1 gn minor sp		82430 82431 82432	9.40-10.40 10.40-11.40 11.40-11.85	1.00 1.00 0.45	0.24 0.45 0.48	7.20 11.70 2.10

NORANDA EXPLORATION COMPANY, LIMITED
(No Personal Liability)

D.D.H.#: TJ86-3

PROPERTY: TOMMY JACK   HOLE NO.: TJ86-3

FROM (m)	TO (m)	REC (%)	CLAY	SILT	SAND	DESCRIPTION	STRUCTURE m/deg. WCA	% VEINLETS	% SULPH.	EST. GRADE	SAMPLE NO.	INTERVAL	WIDTH (m)	ASSAYS AU (gmt)	ASSAYS AG (gmt)
11.85	12.15	100				Quartz-carbonate veinlet			5 py	low	82433	11.85-12.15	0.30	5.01	17.80
12.15	12.3?	?			X	Sandstone - weathered, possible fault	fault?	5 qz-carb		low	82434	12.15-12.3?	0.15+	<0.07	5.10
12.3?	13.10	50	X	X		Siltstone and claystone broken		3 carb		nil					
13.10	13.40	100			X	Sandstone		3 qz-carb	2 py	low	82435	13.10-13.40	0.30	<0.07	2.70
13.40	14.90	90	X	X		Siltstone and claystone very broken and weathered at approx 14m-possible fault	 fault?	6 qz-carb	2 py 1 gn minor sp	med	82436 82437	13.40-14.15 14.15-14.90	0.75 0.75	<0.07 0.31	13.70 14.40
14.90	16.00	100			X	Sandstone-massive, weathered at top, possible fault	min veinlets at 45, 65, 70	5 qz-carb	3 py 1 sp	med	82438	14.90-16.00	1.10	0.14	9.30
16.00	16.20	100	X	X		Claystone/siltstone		1 carb		nil					
16.20	16.55			X		Siltstone - broken at base possible fault	 fault?	1 carb		nil					
16.55	17.55			X	X	Sandstone to Siltstone bedded	bed/35	1 carb		nil					
17.55	19.25		X	X		Siltstone to claystone massive	bed/30	3 cc-carb		nil					
19.25	21.30	100			X	Sandstone - bedded	bed/40 contact/40	2 cc		nil					
21.30	22.40	100	X			Claystone	min veinlets at 50	2 cc-carb	1 py minor sp	low					
22.40	22.70	100				Dacitic intrusive sill possible sericitic alteration	contacts at 55, 50	6 qz-cc	1 diss py	low	82439	22.40-22.70	0.30	<0.07	0.70
22.70	22.90	<100	X			Claystone		2 qz-carb	1 py	low	82440	22.70-22.90	0.20	<0.07	2.10
22.90	23.50	100				Dacitic intrusive sill possible sericitic alteration upper contact broken, lower contact ground		3 qz-carb	1 py 1/4 sp, gn	med	82441	22.90-23.50	0.60	<0.07	0.70
23.50	30.20	100			X	Sandstone-massive to bedded minor clayey parting and interbeds esp. at 27, 27.4 and 28.3 meters	25.9m bed/60 28.4m bed/55 29.4m bed/60	2 cc	1/4 py, sp	low					
30.20						E.O.H. (99 feet)									

LOGGED: 5 - 7 SEPTEMBER 1986 / DEL E. MYERS, JR.

Del Myers

N O R A N D A   E X P L O R A T I O N   C O M P A N Y ,   L I M I T E D
(N o   P e r s o n a l   L i a b i l i t y)

D.D.H.#: TJ86-4

DATE COLLARED: 07 September 1986 DATE COMPLETED: CORE SIZE: 47 mm PROPERTY: TOMMY JACK N.T.S. #: 94 D/04E

PROJECT #: 264

FIELD COORDINATES

LAT:	ELEV.	DIP:
9155N	970.5M	-45 deg.
DEP:	**LENGTH:**	**BEARING:**
9801E	74.1M	60 deg.

DIP TESTS		
DEPTH	ANGLE REC.	ANGLE COR.

HOLE NO: TJ86-4

FROM (m)	TO (m)	REC (%)	CLAY	SILT	SAND	DESCRIPTION	STRUCTURE m/deg. WCA	% VEINLETS	% SULPH.	EST. GRADE	SAMPLE NO.	INTERVAL	WIDTH (m)	ASSAYS AU (gmt)	ASSAYS AG (gmt)
0	4.00	nil				No recovery - casing									
4.00	7.00	38			X	Sandstone weathered & broken near top bedded to massive	bed/40	21	0	nil					
7.00	7.65	100			X	Sandstone - massive			0	nil					
7.65	9.00	100	X	X		Siltstone and claystone	veinlets/20	2	0	nil					
9.00	9.90	100			X	Sandstone - massive		<1	0	nil					
9.90	10.45	100			X	Sandstone - massive fault? at 10.1 m	veinlets/40	<1	0	nil					
10.45	10.75	100		X		Siltstone - massive			0	nil					
10.75	16.00	100			X	Sandstone massive to bedded	bed/30 veinlets/40	2	minor py	nil					
16.00	18.45	100		X	X	Siltstone and sandstone fault at 17m	bed/40 veinlets/30	1.5	3 py	nil					
18.45	20.40	99	X	X		Claystone to siltstone serpentine in fractures and gouge. Fault at 19.9	veinlets/40	2	minor py	nil					
20.40	24.10	99			X	Sandstone - massive serpentine in fractures		1.5	0	nil					
24.10	24.28	100				Quartz vein & vein breccia	veinlets/70		3 py 1 sp 2 as	high	82442	24.10-24.28	0.18	8.02	219.4
24.28	24.70	100				Dacite intrusive pale grey-green			1/2 py 1/2 as	low	82443	24.28-24.70	0.42	1.78	56.6

FROM (m)	TO (m)	REC (%)	CLAY	SILT	SAND	DESCRIPTION	STRUCTURE m/deg. WCA	% VEINLETS	% SULPH.	EST. GRADE	SAMPLE NO.	INTERVAL	WIDTH (m)	ASSAYS AU (gmt)	ASSAYS AG (gmt)
24.70	24.90	100				Quartz vein	mineralized at 25		6 py 3 sp 1 gn-as	high	82444	24.70-24.90	0.20	24.72	441.3
24.90	26.30	100			X	Sandstone		2	2 diss py minor sp	low	82445	24.90-26.30	1.40	1.10	14.4
26.30	27.60	100				Dacite intrusive pale grey-green	veinlets/20	1	1/2 diss py	low	82446	26.30-27.60	1.30	0.31	6.2
27.60	29.40	100			X	Sandstone bedded, fractured	veinlets at 29.35m with 7% py & sp	5.5 qz-cc	1	low	82447	28.40-29.40	1.00	0.75	11.0
29.40	40.50	100			X	Sandstone massive to bedded	fault@40.5m bed/80-90 veinlets/20	5.5 qz-cc	minor py sp	nil					
40.50	48.70	100			X	Sandstone - with distinctive black slatey laminations	bed/60-70 veinlets /20 veinlets/65	1	minor py	nil					
48.70	50.20	100	X	X		Claystone and siltstone laminated	fault at 49.2-50.2 bed/60 veinlets/60	10	minor py	nil					
50.20	52.90	100		X	X	Silstone grading into sandstone at bottom	veinlets/40 veinlets/60	1	minor py	nil					
52.90	55.00	100	X			Claystone dark grey-black	veinlets/30	0.5	minor py	nil					
55.00	57.20	100		X	X	Sandstone and siltstone massive to bedded	bed/45 veinlets/15	2.5	minor py	nil					
57.20	57.60	100	X	X		Claystone and siltstone 3cm quartz vein and gouge at 57.3m	veinlets/70	7	minor py	nil					
57.60	62.00	100			X	Sandstone massive to bedded	veinlets/45	3	3 py 1 gn-as	nil-med	82448	60.35-61.35 w. 4% diss py	1.00	0.27	3.8
62.00	63.00	100	X	X		Siltstone and claystone	bed/70 veinlets/70 veinlets/15	2	0	nil					
63.00	66.20	100		X	X	Sandstone and siltstone	bed/65 veinlets/20	1.5	10 py	nil-med	82449	64.75-65.25	0.50	0.65	2.1

FROM (m)	TO (m)	REC (%)	CLAY	SILT	SAND	DESCRIPTION	STRUCTURE m/deg. WCA	% VEINLETS	% SULPH.	EST. GRADE	SAMPLE NO.	INTERVAL	WIDTH (m)	ASSAYS AU (gmt)	ASSAYS AG (gmt)
66.20	67.80	100		X		Siltstone dissem py in siltstone at veinlet at 68.9m w. 10% py	veinlets at 20, 45	4		nil	82450	67.20-67.50	0.30	5.97	11.3
67.80	69.50	100		X	X	Sandstone and siltstone massive - 2cm quartz vein at 69.8m. 30% py, 2% sp minor gn	veinlets/25	1	minor py	nil-high	82451	69.80-70.10	0.30	6.41	12.0
69.50	70.20	100	X			Claystone	bed/70 veinlets at 20, 70	<1	0	nil					
70.20	71.70	100		X	X	Sandstone and siltstone bedded with black slatey laminations		<1							
71.70	73.20	100	X	X		Siltstone and claystone	fault/73.5m veinlets at 70, 30	4.5	minor py	nil					
73.20	74.10	100			X	Sandstone - massive	veinlets at 25, 50	3	nil						
74.10						E.O.H. (243 feet)									

LOGGED: 8 SEPTEMBER 1986 / R. DAY

NORANDA EXPLORATION COMPANY, LIMITED
(No Personal Liability)

D.D.H.#: TJ86-5

DATE COLLARED: 09 September 1986 | DATE COMPLETED: 10 September 1986 | CORE SIZE: 47 mm | PROPERTY: TOMMY JACK | N.T.S. #: 94 D/04E

PROJECT #: 264

FIELD COORDINATES

LAT: 9155N | ELEV. 971.5M | DIP: -46 deg.

DEP: 9844.5E | LENGTH: 78.6M | BEARING: 53 deg.

HOLE NO: TJ86-5

DIP TESTS		
DEPTH	ANGLE REC.	ANGLE COR.

FROM (m)	TO (m)	REC (%)	CLAY	SILT	SAND	DESCRIPTION	STRUCTURE m/deg. WCA	% VEINLETS	% SULPH.	EST. GRADE	SAMPLE NO.	INTERVAL	WIDTH (m)	ASSAYS AU (gmt)	ASSAYS AG (gmt)
0	7.80	0				No recovery - casing									
7.80	8.80	100		X	X	Sandstone and siltstone well mineralized	fault/8.5m veinlets at 90, 30	12.5 qz-cc	2 py, sp as, gn	med	82452	7.90- 8.80	1.00	0.55	54.5
8.80	9.80	100		X	X	Siltstone and sandstone well mineralized	veinlets at 80-90, 30	6 cz-cc	1 py, sp as, gn	low	82453	8.80- 9.80	1.00	0.17	2.10
9.80	10.80	100		X	X	Sandstone with siltstone black laminations well mineralized	veinlets at 25-30, 80-90	8 qz-cc	3 py, sp as, gn	med	82454	9.80-10.80	1.00	1.65	17.1
10.80	12.50	100		X	X	Sandstone and siltstone well mineralized	fault/11.3m veinlets at 25-30, 75-80	15 qz-cc	5 py, sph as, gn	high	82455	10.80-11.80	1.00	2.26	42.2
12.50	21.20	100			X	Sandstone - massive salt and pepper texture	fault at 12.1-12.5m veinlets/45	3 qz-cc	tr. py,gn	nil					
21.20	21.60	100			X	Sandstone - massive salt and pepper texture	veinlets/30	6 qz-cc	.5 py, gn	low	82456	21.20-21.60	0.40	0.41	8.6
21.60	22.10	100			X	Sandstone salt and pepper texture	veinlets/40	24 qz-cc	4 sp 2 py 1 gn	high	82457	21.60-22.10	0.50	3.02	288.3
22.10	23.30	100			X	Sandstone - massive salt and pepper texture	fault/23m veinlets at 45, 80 0.1m qz vein at 22.6m	20 qz-cc	5 py, sp gn	high	82458	22.10-22.80	0.70	3.63	79.2

NORANDA EXPLORATION COMPANY, LIMITED
(No Personal Liability)

D.D.H.#: TJ86-5

PROPERTY: TOMMY JACK HOLE NO.: TJ86-5

FROM (m)	TO (m)	REC (%)	CLAY	SILT	SAND	DESCRIPTION	STRUCTURE m/deg. WCA	% VEINLETS	% SULPH.	EST. GRADE	SAMPLE NO.	INTERVAL	WIDTH (m)	ASSAYS AU (gmt)	AG (gmt)
23.30	23.60	100	X			Claystone - black contact faulted	contact/50			nil					
23.60	24.60	100		X	X	Siltstone and sandstone .18m quartz vein at 24m	veinlets/45	20 qz-cc	15 py, sp gn	high	82459	23.60-24.60	1.00	11.66	97.4
24.60	25.40	100		X	X	Siltstone and sandstone no apparent bedding here or above. 5cm vein at 24.9m 8 py, 2 gn	veinlets/45	10 qz-cc	5 py, gn sp	high	82460	24.60-25.40	0.80	1.20	34.3
25.40	26.40	100			X	Sandstone - massive 2cm v. at 25.75m-20 py, 2 gn 8cm v. at 26m-30 py, 7 sp, 3 gn 10cm v. at 26.2-4 py, 1 sp		20 qz-cc	2 py, sp gn	med	82461	25.40-26.40	1.00	6.31	162.9
26.40	27.40	100			X	Sandstone - massive 8cm v at 26.7m-5 py, 1 gn 2cm v at 27.2m-2 py, 2 gn, 1 sp	veinlets at 70, 80	10 qz-cc	2 py, gn sp	med	82462	26.40-27.40	1.00	3.53	52.8
27.40	28.20	100			X	Sandstone - massive		5 qz-cc	1 py, sp gn	low	82463	27.40-28.20	0.80	2.37	14.7
28.20	28.70	100	X			Claystone 2cm v at 28.0m-30 py, 2 gn, 1sp	fault/28.3m veinlets/45 bed/40	10 qz-cc	1 py, gn sp	low	82464	28.20-28.70	0.50	0.21	6.50
28.70	37.70	100			X	Sandstone - massive salt & pepper texture quartz v 5cm at 29.7m 3cm at 32.3m 2cm at 34.2m 1cm at 35.9m	veinlets at 25-30, 40-45 80-90	3 qz	1 py, sp gn	low?	82465 82466 82467 82468 82459 82470 82471 82472 82473	28.70-29.70 29.70-30.70 30.70-31.70 31.70-32.70 32.70-33.70 33.70-34.70 34.70-35.70 35.70-36.70 36.70-37.70	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	<0.07 0.75 <0.07 1.75 <0.07 0.86 0.07 0.10 <0.07	1.0 14.1 1.0 5.5 3.1 8.2 1.7 3.8 2.1
37.70	38.50	100			X	Sandstone - massive salt & pepper texture		2 qz-cc	0	nil					
38.50	39.10	100	X			Claystone quartz veinlets at top and bottom	veinlets at 50	10 qz	3 py	low	82474	38.50-39.10	0.60	0.07	4.1
39.10	39.50	100			X	Sandstone green serpentine in veinlets	veinlets at 20, 60, 70	2 qz-cc	0	nil					
39.50	39.80	100	X			Claystone	veinlets at 25	<1	minor py	nil					

PROPERTY: TOMMY JACK HOLE NO.: TJ86-5

FROM (m)	TO (m)	REC (%)	CLAY	SILT	SAND	DESCRIPTION	STRUCTURE m/deg. WCA	% VEINLETS	% SULPH.	EST. GRADE	SAMPLE NO.	INTERVAL	WIDTH (m)	ASSAYS AU (gmt)	ASSAYS AG (gmt)
39.80	41.30	100	X	X		Siltstone and claystone	veinlets at	2	minor py	nil					
						serpentine on wall of	0, 70-90, 20		po						
						veinlets, small fault and									
						breccia at 41m									
41.30	43.10	100			X	Sandstone - massive	veinlets at	3	0	nil					
						serpentine in walls of	70								
						veinlets-no visible sulphides									
43.10	44.50	100		X		Siltstone - green serpentine	bed at 30	2	very	nil					
						in walls of veinlets	veinlets at		minor py						
							70								
44.50	45.50	100			X	Sandstone	bed at 35	5	very	nil					
							veinlets at		minor py						
							50, 70								
45.50	45.90	100	X			Claystone	fault at	5	2 py, sp	med	82475	45.50-45.90	0.40	0.17	4.8
							45.7m								
							veinlets at								
							30, 70-80								
45.90	61.90	100			X	Sandstone - massive	veinlets at	3 qz-cc	very	nil					
							35-45		minor py						
61.90	67.60	100			X	Sandstone - massive	veinlets at	5-10 qz-cc	2 py, sp	low	86551	61.90-62.90	1.00	<0.07	0.7
						faint green tinge to sand-	30, 50, 70		gn	low	86552	62.90-63.90	1.00	<0.07	0.7
						stone, very fine grained				low	86553	63.90-64.90	1.00	0.31	15.8
						disseminated sulphide,	fault at			low	86554	64.90-65.90	1.00	<0.07	<0.7
						wispy (po?)	67.5m			high	86555	65.90-66.90	1.00	0.45	17.8
						3cm qz v. at 66.3m				med	86556	66.90-67.60	0.70	0.55	4.8
						1cm qz v. at 66.9m									
						2cm qz v. at 64.0m									
						4cm qz v. at 67.1m									
67.60	68.00	100		X		Siltstone	veinlets at	2 qz	2 py	med	86557	67.60-68.00	0.40	0.14	4.1
							30, 50, 60								
68.00	70.3	100			X	Sandstone - massive		5 qz-cc	4	high	86558	68.00-69.00	1.00	1.34	14.1
						2cm v. at 68.0m (py+ruby ag?)			2	med	86559	69.00-70.00	1.00	0.14	1.0
						20cm breccia v. at 68.6m			1	low	86560	70.00-70.30	0.30	<0.07	1.4
70.30	71.30	100	X	X		Siltstone and minor claystone	fault at	4	3 py	med	86561	70.30-71.30	1.00	0.07	1.4
							71.3m								
							veinlets at								
							30, 80								

NORANDA EXPLORATION COMPANY, LIMITED
(No Personal Liability)

D.D.H.#: TJ86-5

PROPERTY: TOMMY JACK HOLE NO.: TJ86-5

FROM (m)	TO (m)	REC (%)	CLAY	SILT	SAND	DESCRIPTION	STRUCTURE m/deg. WCA	% VEINLETS	% SULPH.	EST. GRADE	SAMPLE NO.	INTERVAL	WIDTH (m)	ASSAYS AU (gmt)	ASSAYS AG (gmt)
71.30	77.00	100		X		Siltstone 0.5cm v. with cpy 7 ruby Ag at 75m, 2mm v. with py, sph at 76.9m	veinlets at 45, 70	1	trace py	nil					
77.00	78.60	100			X	Sandstone	veinlets at 15, 20	1 qz-cc	minor py	nil					
78.60						E.O.H. (258 feet)									

LOGGED: 10 SEPTEMBER 1986 / R. DAY

N O R A N D A   E X P L O R A T I O N   C O M P A N Y,   L I M I T E D
(N o   P e r s o n a l   L i a b i l i t y)

D.D.H.#: **TJ86-6**

DATE COLLARED: 10 September 1986
DATE COMPLETED: 12 September 1986
CORE SIZE: 47 mm
PROPERTY: TOMMY JACK
N.T.S. #: 94 D/04E
PROJECT #: 264

HOLE NO: TJ86-6

FIELD COORDINATES

LAT:	ELEV.	DIP:
9920E	840.3M	-45 deg.
DEP:	**LENGTH:**	**BEARING:**
9560N	83.2M	60 deg.

DIP TESTS		
DEPTH	ANGLE REC.	COR.

FROM (m)	TO (m)	REC (%)	CLAY	SILT	SAND	DESCRIPTION	STRUCTURE m/deg. WCA	% VEINLETS	% SULPH.	EST. GRADE	SAMPLE NO.	INTERVAL	WIDTH (m)	ASSAYS AU (gmt)	ASSAYS AG (gmt)
0	9.75					Casing shoe at 9.75m (32') 0-4.6m 0% recovery 4.6-7.0 50% recovery, sand-stone, deeply weathered 7.0-9.75 20% recovery, sand-stone, mudstone									
9.75	10.75	100	X			Claystone - brecciated, graphitic		30 qz-cc	5 py, gn	high	86562	9.75-10.75	1.00	0.45	17.5
10.75	11.75	100	X			Claystone - green serpentine in fractures	veinlets at 15, 30	3 qz-cc	1/2 py	low	86563	10.75-11.75	1.00	<0.07	11.0
11.75	12.75	100	X			Claystone - green serpentine in fractures, graphitic		1 qz-cc	1/5 py	low	86564	11.75-12.75	1.00	<0.07	3.8
12.75	13.70	100	X			Claystone - fractured		3.5 qz-cc	1/2	low	86565	12.75-13.70	0.95	<0.07	7.2
13.70	18.15	100		X	X	Sandstone and siltstone	bed at 30 veinlets at 45, 60, 0	2.3 qz-cc	trace py	nil					
18.15	18.70	100	X			Claystone - fractured, green serpentine in fractures	veinlets at 0, 20	5 qz-cc	trace py	nil					
18.70	22.70	100		X	X	Siltstone and sandstone green serpentine in some fractures	bed at 25 veinlets at 80-90, 35	5 qz-cc	trace py	nil					
22.70	26.60	100		X	X	Sandstone - siltstone laminations at top - sulphide dissemination in sandstone salt and pepper texture at bottom.	bed at 40-45 veinlets at 5, 25, 50	6 qz-cc	3 py, gn, as, sp &td?	med high high	86566 86567 86568	23.90-24.90 24.90-25.90 25.90-26.60	1.00 1.00 0.70	0.10 0.14 0.24	6.9 9.6 8.2
26.60	27.80	100	X			Claystone	fault at 26.6m	7 qz-cc	5 trace	high nil	86569	26.60-27.10	0.50	1.71	46.3

NORANDA EXPLORATION COMPANY, LIMITED
(No Personal Liability)

D.D.H.#: TJ86-6

PROPERTY: TOMMY JACK HOLE NO.: TJ86-6

FROM (m)	TO (m)	REC (%)	CLAY	SILT	SAND	DESCRIPTION	STRUCTURE m/deg. WCA	% VEINLETS	% SULPH.	EST. GRADE	SAMPLE NO.	INTERVAL	WIDTH (m)	ASSAYS AU (gmt)	ASSAYS AG (gmt)
27.80	31.80	100		X		Siltstone	veinlets at 10, 50	1 qz-cc	trace py	nil					
31.80	33.00	100			X	Sandstone salt and pepper texture	bed at 45 veinlets at 10, 25, 55	1	trace	nil					
33.00	34.10	100	X	X		Siltstone and claystone mineralization restricted to veinlets.	bed at 35 veinlets at 20, 30, 60	5	2 py, sp trace	low nil	86570	33.00-33.50	0.50	0.55	15.8
34.10	37.30	87	X	X		Siltstone and claystone fault zone breccia and crushed zone		10 qz-cc	1 py, gn sp	low	86571 86572 86573	34.10-35.10 35.10-36.10 36.10-37.30	1.00 1.00 1.20	0.10 0.21 0.10	5.5 12.7 9.9
37.30	38.30	100			X	Sandstone - massive pale green tinge		10 qz-cc	1 py	low	86574	37.30-38.30	1.00	<0.07	2.1
38.30	40.20	100	X	X		Siltstone and claystone pale green serpentine? in walls of veinlets	bed at 45 veinlets at 70, 50	4.5 qz-cc	1/2 py,gn trace	low nil	86575	38.30-39.30	1.00	0.14	5.5
40.20	43.70	100		X	X	Sandstone and siltstone pale green tinge 4.5cm v. at 41.1m	veinlets at 20, 45, 50	7	1/2 py minor gn	low	86576 86577 86578	41.10-42.10 42.10-43.10 43.10-43.70	1.00 1.00 0.60	0.07 0.69 0.14	6.2 15.4 6.2
43.70	45.10	100	X			Claystone	veinlets at 50	4	1/2 py,gn trace	low nil	86579	43.70-44.50	0.80	0.31	28.1
45.10	46.00	100		X		Siltstone	veinlets at 50, 80	1 qz-cc	trace py	nil					
46.00	47.10	100	X			Claystone - pale green tinge on veinlet walls	veinlets at 40	1 qz-cc	trace	nil					
47.10	48.30	100		X		Siltstone	bed at 30 veinlets at 25	1 qz-cc	trace	nil					
48.30	48.80	100			X	Sandstone - salt and pepper texture, serpentine on veinlet walls	bed at 40 veinlets at 45, 30, 0	4 qz-cc	trace	nil					
48.80	50.30	100		X		Siltstone	bed at 35-40 veinlets at 20, 40	2 qz-cc	trace	nil					

PROPERTY: TOMMY JACK   HOLE NO.: TJ86-6

FROM (m)	TO (m)	REC (%)	CLAY	SILT	SAND	DESCRIPTION	STRUCTURE m/deg. WCA	% VEINLETS	% SULPH.	EST. GRADE	SAMPLE NO.	INTERVAL	WIDTH (m)	ASSAYS AU (gmt)	ASSAYS AG (gmt)
50.30	58.30	100		X	X	Sandstone and siltstone massive to bedded	bed at 40-30 lower contacts at 25 veinlets at 30, 50	2.5	trace py minor py 54.0-54.2 meters	nil					
58.30	60.00	100	X			Claystone	bed at 25 veinlets at 25, 50	1.5	trace minor py at 59.3M	nil					
60.00	63.90	100		X	X	Siltstone and sandstone bedded	bed at 30 veinlets at 30, 70	0.5	0	0					
63.90	69.80	100	X	X		Siltstone and claystone black, graphitic, bedded fine grained steel grey-black sulphide?,	fault at 67.6m bed at 30 veinlets at 50, 60	2 minor py in fault 67.6-68.0M	3 trace	high? nil	86580	67.40-67.80	0.40	0.07	9.9
69.80	71.50	100	X			Claystone - dark green alteration on veinlet walls	veinlets at 60	3.5 qz-cc	trace minor py at 70.8M	nil					
71.50	72.10	100			X	Sandstone - bedded	bed at 25 veinlets at 20, 30, 35	8.3 qz-cc	trace py, sp	nil					
72.10	72.40	100	X			Claystone		2.5 qz-cc	trace py	nil					
72.40	73.60	100		X		Siltstone - bedded inor disseminated py from 72.6-72.8M	bed at 60 veinlets at 25, 35	6.5 qz-cc	1/10 py sp?	nil					
73.60	76.50	100	X			Claystone - graphitic in fault zone (fault zone 10% veinlets, 2% py and fine grained steel grey black sulphides?)	fault at 74.6-75.8m	2.5	trace 2 trace	nil med? nil	86581	??	1.20	<0.07	1.7

NORANDA EXPLORATION COMPANY, LIMITED
(No Personal Liability)

D.D.H.#: TJ86-6

PROPERTY: TOMMY JACK HOLE NO.: TJ86-6

FROM (m)	TO (m)	REC (%)	CLAY	SILT	SAND	DESCRIPTION	STRUCTURE m/deg. WCA	% VEINLETS	% SULPH.	EST. GRADE	SAMPLE NO.	INTERVAL	WIDTH (m)	ASSAYS AU (gmt)	AG (gmt)
76.50	79.00	100			X	Sandstone - massive	lower contact at 30	0.5	trace py	nil					
79.00	82.20	100	X	X		Siltstone and claystone (single 1.5cm veinlet with py and grey black sulphide? at 81.75m	bed at 30	0.3	trace	nil					
82.20	83.20	100			X	Sandstone - massive - bedded	bed at 30	0.1	0	nil					
83.20						E.O.H. (273 feet)									

LOGGED: 12 SEPTEMBER 1986 / R. DAY

N O R A N D A   E X P L O R A T I O N   C O M P A N Y ,   L I M I T E D
(N o   P e r s o n a l   L i a b i l i t y)

D.D.H.#: TJ86-7

DATE COLLARED: 12 September 1986
DATE COMPLETED: 13 September 1986
CORE SIZE: 47 mm
PROPERTY: TOMMY JACK
N.T.S. #: 94 D/04E

PROJECT #: 264

FIELD COORDINATES

LAT: 10,007E
ELEV. 835.2M
DIP: -45 deg.

DEP: 9559.5N
LENGTH: 80.2M
BEARING: 60 deg.

DIP TESTS		
DEPTH	ANGLE REC.	ANGLE COR.

HOLE NO: TJ86-7

FROM (m)	TO (m)	REC (%)	CLAY	SILT	SAND	DESCRIPTION	STRUCTURE m/deg. WCA	% VEINLETS	% SULPH.	EST. GRADE	SAMPLE NO.	INTERVAL	WIDTH (m)	ASSAYS AU (gmt)	ASSAYS AG (gmt)
0	6.70	0				Casing to 22 feet									
6.70	7.50	100			X	Sandstone - massive	fractures/70	1		nil					
7.50	9.90	100	X	X		Siltstone and claystone sulphide weathered out 5cm veinlet at 8.5m	veinlets at 40, 50	5 between 8.5-9.8m	1 trace	low nil	86582 86583	8.50- 9.50 9.50- 9.80	1.00 0.30	<0.07 <0.07	4.5 <0.7
9.90	11.10	100			X	Sandstone - massive salt and pepper texture	veinlets/70	0.5		nil					
11.10	12.60	100	X	X		Siltstone and claystone	bed at 60 veinlets at 50, 70	0.5 qz-cc		nil					
12.60	13.20	100			X	Sandstone - massive	bed at 60	0		nil					
13.20	14.10	100	X	X		Siltstone and claystone	bed at 50,60 veinlets/60	0.1 qz-cc		nil					
14.10	16.90	100		X	X	Siltstone and sandstone	bed at 30,50	0.1 qz-cc		nil					
16.90	17.40	100			X	Sandstone - salt and pepper texture. Massive to bedded	bed at 60	0.1		nil					
17.40	20.60	100	X	X		Siltstone and claystone	bed at 50 fractures/40	0.1		nil					
20.60	21.50	100			X	Sandstone - bedded	bed at 30,40	0		nil					
21.50	25.60	100		X		Siltstone	bed at 35 veinlets/40	1 qz-cc	minor py	nil					
25.60	28.70	100	X			Claystone	veinlets at 15, 30	1.4	minor py	nil					

FROM (m)	TO (m)	REC (%)	CLAY	SILT	SAND	DESCRIPTION	STRUCTURE m/deg. WCA	% VEINLETS	% SULPH.	EST. GRADE	SAMPLE NO.	INTERVAL	WIDTH (m)	ASSAYS AU (gmt)	ASSAYS AG (gmt)
28.70	29.70	100			X	Sandstone	bed at 30 veinlets/50	0.1		nil					
29.70	30.40	100	X			Claystone	veinlets/50	2.8 qz-cc	minor py	nil					
30.40	31.50	100		X	X	Sandstone and siltstone	bed at 40 veinlets/60	1.8 qz		nil					
31.50	32.00	100	X			Claystone	veinlets at 50, 30	1		nil					
32.00	33.70	100		X	X	Sandstone and siltstone	bed at 50 veinlets/50	1.5 qz-cc	minor py	nil					
33.70	39.60	100			X	Sandstone - salt and pepper texture, massive to bedded	bed at ? veinlets at 20, 30, 50	1.5		nil					
39.60	41.80	100			X	Sandstone - massive to bedded	bed at 40 veinlets at 15, 50	5.5	0.5 (py 1 sp 2 gn)	low low med	86584 86585 86586	39.60-40.60 40.60-41.20 41.20-41.80	1.00 0.60 0.60	0.10 0.07 0.07	30.9 5.1 6.2
41.80	42.60	100	X			Claystone	fault at 41.8-42.2 40% qz,cc in fault	0.5 qz-cc	5 trace	high nil	86587	41.80-42.20	0.40	0.62	21.9
42.60	47.00	100	X	X		Siltstone and claystone	bed at 35 veinlets/60	0.2 qz-cc		nil					
47.00	50.00	100			X	Sandstone - massive to bedded	bed at 40 veinlets at 20, 35, 45	1 qz-cc		nil					
50.00	51.00	100	X			Claystone	veinlets/50	1 qz-cc		nil					
51.00	53.10	100		X		Siltstone	veinlets/60	0.5 qz-cc		nil					
53.10	54.50	100			X	Sandstone	veinlets at 40, 50	2.8 qz-cc		nil					
54.50	56.90	100	X	X		Siltstone and claystone	bed at 30 veinlets at 40, 60	0.5	trace py	nil					
56.90	58.00	100		X	X	Siltstone and sandstone minor sp in single 1.3cm qz-cc veinlet	bed at 30 veinlets/55	1	trace sp	nil					

NORANDA EXPLORATION COMPANY, LIMITED
(No Personal Liability)

D.D.H.#: TJ86-7

PROPERTY: TOMMY JACK   HOLE NO.: TJ86-7

FROM (m)	TO (m)	REC (%)	CLAY	SILT	SAND	DESCRIPTION	STRUCTURE m/deg. WCA	% VEINLETS	% SULPH.	EST. GRADE	SAMPLE NO.	INTERVAL	WIDTH (m)	ASSAYS AU (gmt)	ASSAYS AG (gmt)
58.00	60.80	100			X	Sandstone	veinlets/35 bed at 30	0.5 qz-cc		nil					
60.80	63.50	100	X	X		Siltstone and claystone	bed at 40 veinlets/20	0.1 qz-cc		nil					
63.50	66.60	100			X	Sandstone	bed at 30 veinlets at 50, 130	0.1 qz-cc		nil					
66.60	70.50	100	X	X		Siltstone and claystone	bed at 40 veinlets/15	0.5 qz-cc		nil					
70.50	74.20	100			X	Sandstone - massive to bedded	bed at 40 veinlets at 15, 70	1 qz-cc		nil					
74.20	76.90	100	X	X		Siltstone and claystone	bed at 40 veinlets at 15, 50, 60	0.5 qz-cc		nil					
76.90	78.80	100	X			Claystone	upper contact/40 veinlets/40	0.5 qz-cc		nil					
78.80	79.40	100			X	Sandstone - massive	veinlets at 30, 35, 80	1 qz-cc		nil					
79.40	80.20	100	X	X		Siltstone and claystone	bed at 40 veinlets at 40, 80	0.1 qz-cc	trace py	nil					
80.20						E.O.H. (263 feet)									

LOGGED: 13 SEPTEMBER 1986 / R. DAY

NORANDA EXPLORATION COMPANY, LIMITED
(No Personal Liability)

D.D.H.#: TJ86-8

DATE COLLARED: 14 September 1986
DATE COMPLETED: 15 September 1986
CORE SIZE: 47 mm
PROPERTY: TOMMY JACK
N.T.S. #: 94 D/04E
PROJECT #: 264

FIELD COORDINATES

LAT: 9757N
ELEV. 890.0M
DIP: -45 deg.
DEP: 9404N
LENGTH: 81.6M
BEARING: 60 deg.

DIP TESTS		
DEPTH	ANGLE REC.	COR.

HOLE NO: TJ86-8

FROM (m)	TO (m)	REC (%)	CLAY	SILT	SAND	DESCRIPTION	STRUCTURE m/deg. WCA	% VEINLETS	% SULPH.	EST. GRADE	SAMPLE NO.	INTERVAL	WIDTH (m)	ASSAYS AU (gmt)	ASSAYS AG (gmt)
0	6.70	0				No recovery - casing									
6.70	8.50	90	X	X		Siltstone and claystone	veinlets at 40, 60	1 qz-cc	trace 0.5 py, as	nil low	86588	7.80- 8.50	0.7	0.17	3.8
8.50	13.10	100		X	X	Sandstone and siltstone	bed at 50 veinlets at 150, 50, 0	1.8 qz-cc	minor py	nil					
13.10	13.50	100	X			Claystone	bed at 50 veinlets/50	5 qz-cc	minor py	nil					
13.50	16.90	100		X	X	Siltstone and sandstone	bed at 20 veinlets at 40, 120, 70	0.5 qz-cc		nil					
16.90	20.10	100			X	Sandstone - massive pale green tinge to veinlets	veinlets at 70, 80	1.7 qz-cc	trace py	nil					
20.10	21.20	100	X			Claystone	veinlets at 50, 80	0.9 qz-cc		nil					
21.20	21.70	100			X	Sandstone - pale green tinge to some veinlets.	bed at 40 veinlets at 50, 100	9.4 qz-cc 2.5cm qz veinlet at 21.2m	minor py	nil					
21.70	22.70	100		X		Siltstone	veinlets at 40, 60, 80	3 qz-cc		nil					
22.70	23.20	100	X			Claystone	veinlets at 70, 80	1 qz-cc		nil					
23.20	24.90	100	X	X		Siltstone and claystone pale-dark green tinge to some veinlets	fault at 24.7-24.9m, breccia, veinlets /60	6.5 qz-cc	0.5 3	low high	86589 86590	23.20-23.90 23.90-24.90	0.7 1.0	0.07 0.17	0.7 0.7

FROM (m)	TO (m)	REC (%)	CLAY	SILT	SAND	DESCRIPTION	STRUCTURE m/deg. WCA	% VEINLETS	% SULPH.	EST. GRADE	SAMPLE NO.	INTERVAL	WIDTH (m)	ASSAYS AU (gmt)	AG (gmt)
24.90	26.60	100			X	Sandstone	Bed at 50 veinlets at 40, 110, 130	1.3 qz-cc	trace py	nil					
26.60	27.50	100	X	X		Siltstone and claystone	fault at 27.2m veinlets at 0,30,40,70	4.5	1 py minor as	med	86591	26.60-27.50	0.9	0.21	3.1
27.50	29.60	100			X	Sandstone - pale green tinge to some veinlets and serpentine? in walls of veinlets.	bed at 50 veinlets at 15, 20, 40	1.2	minor py	nil					
29.60	30.60	100	X	X		Siltstone and claystone	bed at 10 veinlets at 10, 20	0.5 qz-cc		nil					
30.60	31.70	100			X	Sandstone - massive	veinlets at 0, 10, 80	2 qz-cc	trace sp	nil					
31.70	34.20	100	X			Claystone 1cm veinlet at 31.7m (minor py, sp)	fault at 33.9-34.2m veinlets at 10, 20, 80	2 qz-cc (10 in fault)	3 py,gn,as	high	86592	33.60-34.20	0.6	1.13	5.8
34.20	36.80	100	X	X		Siltstone and claystone	veinlets at 40, 80	0.5 qz-cc		nil					
36.80	38.90	100		X	X	Siltstone and sandstone	veinlets/70	0.3 qz-cc		nil					
38.90	39.10	100	X	X		Siltstone and claystone	bed at 20 veinlets at 70, 80	0.3 qz-cc		nil					
39.10	45.20	100		X		Siltstone	bed at 20 veinlets at 60, 100	0.1 qz-cc		nil					
45.20	49.80	100		X	X	Sandstone and siltstone	veinlets at 50, 30	1.2 qz-cc	trace py	nil					
49.80	54.50	100	X	X		Claystone and siltstone	bed at 20 fault at 52.5m veinlets at 60, 70, 100, 150	1 qz-cc		nil					

FROM (m)	TO (m)	REC (%)	CLAY	SILT	SAND	DESCRIPTION	STRUCTURE m/deg. WCA	% VEINLETS	% SULPH.	EST. GRADE	SAMPLE NO.	INTERVAL	WIDTH (m)	ASSAYS AU (gmt)	ASSAYS AG (gmt)
54.50	56.40	100		X	X	Sandstone and siltstone green serpentine in walls of some veinlets	veinlets at 60, 110	2.8 qz-cc		nil					
56.40	61.50	100			X	Sandstone - massive to bedded. (Bedding approx. 0 deg. near fault)	fault at 57.7-58.0m bed at 40 veinlets at 30, 40, 70	2.4 qz-cc	minor py 1 py	 low	 86593	 57.70-58.00	 0.3	 (0.07	 0.7
61.50	63.80	100	X	X		Claystone and siltstone	bed at 20 veinlets/30	0.8 qz-cc	trace py	nil					
63.80	67.00	100			X	Sandstone	bed at 20 veinlets at 50, 140	0.8 qz-cc		nil					
67.00	68.60	100	X			Claystone	fault at 67.9-68.2m veinlets at 20, 30, 160	1.1 qz-cc	trace py	nil					
68.60	71.60	100		X	X	Siltstone and sandstone massive to bedded	bed at 20 veinlets at 40, 90, 80 100, 120	2.3 qz-cc		nil					
71.60	72.70	100	X	X		Claystone and siltstone	upper contact at 30, veinlets at 20, 110	1.8 qz-cc		nil					
72.70	76.60	100		X	X	Siltstone and sandstone	bed at 20-25 veinlets at 30, 70	0.25 qz-cc	minor py	nil					
76.60	78.60	100	X	X		Claystone and siltstone	veinlets at 30, 80, 90	0.5 qz-cc	trace	nil					
78.60	79.50	100			X	Sandstone - 2cm veinlet at 79.4m with Py, As, disseminated sulphide between veinlet and fault	small fault at 79.5m bed at 40 veinlets at 110, 40	4.4 qz-c	trace 2 py, as	nil med	 86594	 79.35-79.50	 0.15	 0.45	 1.7

NORANDA EXPLORATION COMPANY, LIMITED
(No Personal Liability)

D.D.H.#: TJ86-8

PROPERTY: TOMMY JACK | HOLE NO.: TJ86-8 | PAGE 4 OF 4

FROM (m)	TO (m)	REC (%)	CLAY	SILT	SAND	DESCRIPTION	STRUCTURE m/deg. WCA	% VEINLETS	% SULPH.	EST. GRADE	SAMPLE NO.	INTERVAL	WIDTH (m)	ASSAYS AU (gmt)	ASSAYS AG (gmt)
79.50	80.50	100	X	X		Claystone and siltstone	bed at 50-60	0.1 qz-cc		nil					
80.50	81.20	100			X	Sandstone - serpentine in walls of veinlets	upper contact @ 60 lower contact @45 bed at 50 veinlets at 140, 170	2.4 qz-cc	trace	nil					
81.20	81.60	100	X			Claystone	veinlets at 40, 50, 120	0.7 qz-cc		nil					
81.60						E.O.H. (268 feet)									

LOGGED: 15 SEPTEMBER, 1986 / R. DAY

N O R A N D A   E X P L O R A T I O N   C O M P A N Y ,   L I M I T E D
(N o   P e r s o n a l   L i a b i l i t y)

D.D.H.#: TJ86-9

DATE COLLARED: 16 September 1986

DATE COMPLETED: 18 September 1986

CORE SIZE: 47 mm

PROPERTY: TOMMY JACK

N.T.S. #: 94 D/04E

PROJECT #: 264

FIELD COORDINATES

LAT:	ELEV.	DIP:
9400N	889.1M	-45 deg.
DEP:	**LENGTH:**	**BEARING:**
9821E	81.6 M	60 deg.

DIP TESTS	
DEPTH	ANGLE REC. | COR.

HOLE NO: TJ86-9

FROM (m)	TO (m)	REC (%)	CLAY	SILT	SAND	DESCRIPTION	STRUCTURE m/deg. WCA	% VEINLETS	% SULPH.	EST. GRADE	SAMPLE NO.	INTERVAL	WIDTH (m)	ASSAYS AU (gmt)	ASSAYS AG (gmt)
0	9.75	0				No recovery - casing									
9.75	12.10	100	X	X		Siltstone and claystone	veinlets at 20, 50, 70	0.6 qz-cc		nil					
12.10	13.50	100		X	X	Siltstone and sandstone	bed at 10 veinlets at 20, 60, 80	1.4 qz-cc		nil					
13.50	14.60	100			X	Sandstone - bedded	bed at 15 veinlets/140	0.4 qz-cc		nil					
14.60	15.80	100		X		Siltstone	veinlets/70	0.2 qz-cc		nil					
15.80	17.20	100	X			Claystone	veinlets at 20, 40	0.1 qz-cc		nil					
17.20	17.40	100			X	Sandstone	bec at 5	0		nil					
17.40	19.45	100		X		Siltstone	bed at 10	0.1 qz-cc		nil					
19.45	21.30	100			X	Sandstone - 1cm veinlet at 19.45m, 2cm veinlet at 21.2m	bed at 40 veinlets at 20, 35, 50	2.7 qz-cc	0.5 py, po	low	86595	19.45-20.45	1.00	0.07	2.7
											86596	20.45-21.30	0.85	(0.07	1.4
21.30	22.10	100	X			Claystone		1.2 qz-cc	0.5 po, py, cp, gn	low	86597	21.30-22.00	0.70	0.07	7.9
22.10	26.10	100			X	Sandstone	bed at 30 veinlets at 120, 30, 50	4 qz-cc	trace	nil					
26.10	26.90	100	X	X		Claystone and siltstone	fault zone at 26.1-26.9	20 qz-cc	4 py, gn	med	86598	25.90-26.90	1.00	0.27	12.0

NORANDA EXPLORATION COMPANY, LIMITED
(No Personal Liability)

D.D.H.#: TJ86-9

PROPERTY: TOMMY JACK HOLE NO.: TJ86-9

FROM (m)	TO (m)	REC (%)	CLAY	SILT	SAND	DESCRIPTION	STRUCTURE m/deg. WCA	% VEINLETS	% SULPH.	EST. GRADE	SAMPLE NO.	INTERVAL	WIDTH (m)	ASSAYS AU (gmt)	AG (gmt)
26.90	28.60	100		X	X	Siltstone and sandstone	bed at 30 veinlets at 30, 40, 45	2.6 qz-cc	trace py	nil					
28.60	29.40	100	X			Claystone	veinlets at 20, 50	2.9 qz-cc	trace	nil					
29.40	32.50	100			X	Sandstone - bedded to massive	bed at 40-60 fault at 32.5 m veinlets at 0, 150, 160	1 qz	trace py	nil					
32.50	33.70	100		X		Siltstone	veinlets/60	0.7 qz-cc		nil					
33.70	36.20	100			X	Sandstone - massive to bedded minor py,cpy in fracture at 34.6 m	bed at 30 veinlet/70	0.6 qz-cc	trace	nil					
36.20	40.00	100		X		Siltstone - serpentine in walls of fracture	veinlets at 40, 80	1 qz-cc	0.3 po	low	86599	37.50-38.50	1.00	<0.07	0.7
40.00	40.70	100	X			Claystone	veinlets at 10, 40	2.8 qz-cc	0.1 po,py	low	86600	40.00-40.70	0.70	<0.07	1.7
40.70	42.70	100		X		Siltstone - py in fractures (some fractures, massive py)	bed at 30 veinlets/120	1.3 qz-cc	0.2 py	low	86601 86602	40.70-41.70 41.70-42.70	1.00 1.00	0.14 <0.07	4.8 1.4
42.70	43.50	100			X	Sandstone - bedded, py in fractures	bed at 30 veinlets at 110, 130	1.2 qz-cc	trace py	nil					
43.50	46.30	100		X		Siltstone - some veinlets massive (po)	bed at 25 veinlets at 50, 70, 100	1 qz-cc	0.5 po	low	86603	45.30-46.30	1.00	<0.07	2.1
46.30	48.00	100	X			Claystone	veinlets at 40, 85	2.4 qz-cc	0.3 po	low	86604 86605	46.30-47.30 47.30-48.00	1.00 0.70	<0.07 <0.07	1.0 1.0
48.00	49.40	100		X		Siltstone	small fault at 49.4 m veinlets at 65, 70	2.5 qz-cc	0.3	low	86606	48.00-49.00	1.00	<0.07	1.4

NORANDA EXPLORATION COMPANY, LIMITED
(No Personal Liability)

D.D.H.#: TJ86-9

PROPERTY: TOMMY JACK HOLE NO.: TJ86-9

FROM (m)	TO (m)	REC (%)	CLAY	SILT	SAND	DESCRIPTION	STRUCTURE m/deg. WCA	% VEINLETS	% SULPH.	EST. GRADE	SAMPLE NO.	INTERVAL	WIDTH (m)	ASSAYS AU (gmt)	AG (gmt)
49.40	50.10	100	X			Claystone	bed at lower contact 30 veinlet in fault at 40 veinlets at 35, 150	2.5 qz-cc	0.6 py, po	low	86607	49.30-50.10	0.80	0.17	9.3
50.10	50.80	100		X		Siltstone - some veinlets massive py and sulphide (po)	veinlets at 5, 65	3.1 qz-cc	0.3	low	86608	50.10-50.80	0.70	0.17	3.8
50.80	52.90	100			X	Sandstone - massive	veinlets at 5, 30, 75	0.95 qz-cc	trace py	nil					
52.90	57.70	100		X	X	Siltstone and sandstone fracture with po at 54.6m and 56m.	bed at 40 veinlets at 40, 60, 80	1.4 qz-cc	trace py	nil					
57.70	59.30	100		X		Siltstone	veinlets at 20, 100, 110	1 qz-cc	trace py	nil					
59.30	60.50	100			X	Sandstone	bed at 20 veinlets at 120, 30	1.2 qz-cc		nil					
60.50	64.90	100	X			Claystone - minor Po in some veinlets from 64.2-64.9m.	veinlets at 10, 50	0.34 qz-cc	trace po	nil					
64.90	67.20	100		X		Siltstone - 2cm quartz veinlet at 66.2m with py, minor as	small fault at 66.2m veinlets at 30, 40, 70	1.2 qz-cc	trace 0.5	nil low	86609	66.10-67.20	1.10	0.10	2.1
67.20	81.70	100			X	Sandstone - massive to bedded ruby Ag in some veinlets	small fault at 72.2m bed at 40-50 veinlets at 10, 20, 40, 100, 150	2.8 qz-cc	0.4 trace trace	high low low	86610 86611 86612	67.90-68.05 72.20-73.20 74.80-75.20	0.15 1.00 0.40	0.10 0.07 0.14	16.8 1.7 0.7
81.70						E. O. H. (268 feet)									

LOGGED: 17 - 18 SEPTEMBER 1986 / R. DAY

NORANDA EXPLORATION COMPANY, LIMITED
(No Personal Liability)

D.D.H.#: TJ86-10

DATE COLLARED: 18 September 1986 | DATE COMPLETED: 19 September 1986 | CORE SIZE: 47 mm | PROPERTY: TOMMY JACK | N.T.S. #: 94 D/04E

PROJECT #: 264

FIELD COORDINATES

LAT: 9398N | ELEV. 887 M | DIP: -45 deg.

DEP: 9900E | LENGTH: 84.4 M | BEARING: 60 deg.

DIP TESTS		
DEPTH	ANGLE REC.	ANGLE COR.

HOLE NO: TJ86-10

FROM (m)	TO (m)	REC (%)	CLAY	SILT	SAND	DESCRIPTION	STRUCTURE m/deg. WCA	% VEINLETS	% SULPH.	EST. GRADE	SAMPLE NO.	INTERVAL	WIDTH (m)	ASSAYS AU (gmt)	ASSAYS AG (gmt)
0	8.20	0				No recovery - casing									
8.20	12.20	100	X			Claystone	veinlets at 20, 50, 60, 70	3 qz-cc		nil					
12.20	14.20	100			X	Sandstone	fault at 14.2 m bed at 40-60 veinlets at 40, 15, 50, 120	2 qz-cc		nil					
14.20	18.25	100		X	X	Sandstone and siltstone	bed at 0-10	0.1 qz-cc		nil					
18.25	19.90	100	X			Claystone	veinlets at 60, 75	0.9 qz-cc		nil					
19.90	25.10	100		X		Siltstone - massive	veinlets at 25, 40, 50	0.1 qz-cc		nil					
25.10	27.70	100			X	Sandstone	bed at 20-50 at bottom veinlets at 40, 50, 60	0.2 qz-cc		nil					
27.70	32.30	100		X	X	Sandstone and siltstone	bed at 30, 40, 50 veinlets at 30, 50, 75	1.0 qz-cc		nil					
32.30	37.50	100	X	X		Claystone and siltstone and breccia	fault at 34.2-35.4m bed at 20, 30, 50 veinlets at 30, 40, 80	6.5 qz-cc 32.3-35.4m 1.0 qz-cc 35.4-37.5m	trace py	nil					
37.50	40.70	100			X	Sandstone - bedded	bed at 20-30 veinlets at 10, 110	0.1 qz-cc		nil					

FROM (m)	TO (m)	REC (%)	CLAY	SILT	SAND	DESCRIPTION	STRUCTURE m/deg. WCA	% VEINLETS	% SULPH.	EST. GRADE	SAMPLE NO.	INTERVAL	WIDTH (m)	ASSAYS AU (gmt)	ASSAYS AG (gmt)
40.70	41.60	100	X	X		Siltstone and claystone	bed at 20 veinlets at 10, 120	0.8 qz-cc	trace	nil					
41.60	43.90	100		X		Siltstone	bed at 10 veinlets at 80, 110, 150	0.3 qz-cc		nil					
43.90	47.70	100			X	Sandstone - bedded	bed at 20-30 at bottom veinlets at 60, 80	0.8 qz-cc		nil					
47.70	49.70	100		X		Siltstone - bedded	bed at 30 veinlets at 75, 120	0.4 qz-cc		nil					
49.70	51.90	100	X			Claystone	veinlets/70	1.0 qz-cc		nil					
51.90	55.60	100	X	X		Siltstone and claystone	bed at 30-50 at bottom fault at 55.1 m veinlets at 70, 120	1.5 qz-cc	trace py	nil					
55.60	57.80	100			X	Sandstone - bedded	bed at 40-60 veinlets at 130, 120	2.0 qz-cc		nil					
57.80	60.20	100	X	X		Claystone and siltstone	fault at 57.8m @ 20 veinlets at 20,50,60,75	10 qz-cc 57.8-58.3m 1 qz-cc 58.3-60.2m	3 py minor Ruby Ag? trace	med nil	86613	57.80-58.30	0.50	0.41	55.5
60.20	62.40	100			X	Sandstone	bed at 45-50	0.5 qz-cc		nil					
62.40	64.90	100		X		Siltstone - massive	veinlets/50	0.1 qz-cc		nil					
64.90	68.00	100		X	X	Sandstone and siltstone bedded to massive	bed at 20-35 veinlets at 140	0.05 qz-cc		nil					
68.00	69.20	100	X			Claystone - 2cm veinlet with 30% py at 68.1m	bed at 30 veinlets/30	1.5 qz-cc	trace	nil					
69.20	72.70	100	X	X		Siltstone and claystone	bed at 35 veinlets/60	0.4 qz-cc		nil					

NORANDA EXPLORATION COMPANY, LIMITED
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D.D.H.#: TJ86-10

PROPERTY: TOMMY JACK

HOLE NO.: TJ86-10

FROM (m)	TO (m)	REC (%)	CLAY	SILT	SAND	DESCRIPTION	STRUCTURE m/deg. WCA	% VEINLETS	% SULPH.	EST. GRADE	SAMPLE NO.	INTERVAL	WIDTH (m)	ASSAYS AU (gmt)	ASSAYS AG (gmt)
72.70	75.60	100		X	X	Sandstone and siltstone	veinlets at 25, 30, 50	0.6 qz-cc		nil					
75.60	78.50	100			X	Sandstone - bedded	bed at 10 veinlets at 70, 90	0.5 qz-cc veinlet at 76.6m	trace py	nil					
78.60	80.00	100		X	X	Siltstone and sandstone	veinlets at 15, 50, 70	2.3 qz-cc	trace	nil					
80.00	82.30	100	X	X		Siltstone and claystone	bed at 30 veinlets/60	1.5 qz-cc	trace	nil					
82.30	84.40	100		X	X	Sandstone and siltstone	bed at 45 veinlets/70	2.5 qz-cc		nil					
84.40						E. O. H. (277 feet)									

LOGGED: 20 SEPTEMBER 1986 / R. DAY

APPENDIX 4

Statment of Qualifications

Relevant Training

B. Sc. (1970)	-	Pennsylvania State University Geological Sciences
M. Sc. (1973)	-	University of Toronto Geochemistry

Relevant Experience

1973 - 1980	-	Exploration and Mine Geologist Cominco Ltd. Vancouver and Yellowknife
1980 - 1982	-	Project Geologist Noranda Exploration Co. Ltd. Yellowknife
1982 - 1983	-	District Geologist Noranda Exploration Co. Ltd. Smithers
1984 - present	-	Project Geologist Noranda Exploration Co. Ltd. Prince George

Professional Affiliations

Fellow, Geological Association of Canada

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

Delbert E. Myers, Jr.

Statement of Qualifications

I, Robin C. Day, of 441 Parkland Village, Spruce Grove, Alberta, do certify that:

1. I am a graduate of the University of Alberta, where I obtained a B.Sc. (Concentration in Geology) in 1976.

2. I have practiced my profession as a geologist, mostly in British Columbia, Yukon, and Northwest Territories, for the last eleven years.

3. I was engaged as a geologist on the Tom claims during the month of September, 1986. My duties were primarily to log core and co-ordinate drill moves. At this time, a preliminary drill program was operated by Noranda on behalf of Noranda and Goldcap Inc. I am also a director and officer of Goldcap.

4. I have examined and thoroughly reviewed the contents of this report, authored by Del Meyers.

Robin C. Day

Spruce Grove, Alberta
Dated this 20 day
of March, 1987

APPENDIX 5.

ANALYTICAL METHOD DESCRIPTIONS FOR GEOCHEMICAL ASSESSMENT REPORTS

Revised:01/86

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

Preparation of Samples

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

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

Analysis of Samples.

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

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

Elements Requiring Specific Decomposition Method

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

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

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

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

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

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

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

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

<u>LOWEST VALUES REPORTED IN PPM</u>

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

APPENDIX 6. Analysis Reports

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 94 D/04E

PROPERTY 264. Tommy Jack

DATE Sept. 1986

SAMPLE REPORT

SAMPLE NO.	LOCATION & DESCRIPTION	TYPE	WIDTH m	ASSAYS ppm Au	Ag						SAMPLED BY
34001	DDH TJ86-1 Box 5 31·65 - 31·80m	core	0·15								R Day
	For sample &/or thin section										
34002	DDH TJ86-1 Box 5 31·22 - 31·32 m	core	0·10	<0·07	<0·7						"
	dacite sill for analysis										
34003	DDH TJ86-2 Box 2 9·35 - 9·45 m	core	0·10	0·14	0·7						"
	dacite sill for analysis										
							dm	3	Oct	86	

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Certificate of Analysis

REPORT: 426-4275

Tommy Jack

PROJECT: 264 8609-034 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au GMT	Ag GMT
D2 82354		2.57	12.7
D2 82355		0.99	4.5
D2 82356		0.17	2.1
D2 82357		1.58	4.5
D2 82358		0.72	9.9
D2 82359		0.51	1.7
D2 82360		<0.07	0.7
D2 82361		0.31	1.7
D2 82362		0.07	1.4
D2 82363		0.17	1.0
D2 82364		0.86	3.4
D2 82365		0.21	5.1
D2 82366		0.62	2.7

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Geochemical Lab Report

8609-034

REPORT: 126-4275

PROJECT: 264 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Mo PPM	As PPM
D2 82354		164	1970	3950	<1	>1000
D2 82355		137	118	740	<1	450
D2 82356		76	11	78	<1	500
D2 82357		132	156	2500	<1	>1000
D2 82358		366	645	98	<1	500
D2 82359		56	14	95	<1	100
D2 82360		39	18	135	<1	65
D2 82361		41	47	130	<1	85
D2 82362		38	106	70	<1	75
D2 82363		32	30	180	<1	350
D2 82364		58	120	230	1	550
D2 82365		99	246	205	1	>1000
D2 82366		95	33	47	<1	>1000

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94D/04E

REPORT: 426-4424 | Tommy Jack (DM) | PROJECT: 264 8609.063 | PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au GMT	Ag GMT
D2 82351		1.20	9.3
D2 82352		0.07	0.7
D2 82353		0.07	1.4
D2 82367		<0.07	1.4
D2 82368		0.27	1.7
D2 82369		0.48	3.4
D2 82370		0.27	1.7
D2 82371		3.63	23.0
D2 82372		0.07	1.7
D2 82373		0.27	2.1
D2 82374		0.21	2.1
D2 82375		0.07	2.1
D2 82376		0.31	1.7
D2 82377		0.24	1.7
D2 82378		0.07	1.0
D2 82379		0.10	1.0
D2 82380		0.27	3.8
D2 82381		18.31	46.6
D2 82382		0.27	4.1
D2 82383		0.07	1.7
D2 82384		0.07	1.4
D2 82385		0.51	3.4
D2 82386		0.07	16.1
D2 82387		0.17	9.6
D2 82388		0.89	25.7
D2 82389		0.27	9.9
D2 82390		0.14	5.5
D2 82391		<0.07	1.0
D2 82392		<0.07	0.7
D2 82393		0.65	3.1
D2 82394		0.24	4.1
D2 82395		1.99	56.2
D2 82396		2.09	28.1
D2 82397		1.95	21.6
D2 82398		0.34	3.4
D2 82399		0.17	2.4
D2 82400		9.60	121.7
D2 82401		0.55	9.9
D2 82402		0.34	6.5
D2 82403		0.75	8.2

SAMPLE NUMBER	ELEMENT UNITS	Au GMT	Ag GMT
D2 82404		0.41	2.4
D2 82405		1.13	14.7
D2 82406		0.38	5.8
D2 82407		0.38	3.8
D2 82408		0.79	3.4
D2 82409		0.45	3.8
D2 82410		2.09	2.7
D2 82411		0.24	1.7
D2 82412		0.07	1.4
D2 82413		0.27	2.1
D2 82414		0.07	1.7
D2 82415		0.34	2.7
D2 82416		1.10	13.7
D2 82417		0.51	2.1
D2 82418		0.10	2.1
D2 82419		0.07	1.7
D2 82420		0.17	7.9
D2 82421		0.14	2.1
D2 82422		0.89	24.3
D2 82423		<0.07	1.7
D2 82424		0.07	2.1
D2 82425		3.02	12.3
D2 86524		0.07	1.4
D2 86525		0.10	1.4

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REPORT: 426-4448

Tommy Jack (DM) PROJECT: 264 8609-068 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au GMT	Ag GMT
D2 34002		<0.07	<0.7
D2 34003		0.14	0.7
D2 82426		0.10	3.1
D2 82427		<0.07	1.7
D2 82428		<0.07	2.4
D2 82429		<0.07	0.7
D2 82430		0.24	7.2
D2 82431		0.45	11.7
D2 82432		0.48	2.1
D2 82433		5.01	17.8
D2 82434		<0.07	5.1
D2 82435		<0.07	2.7
D2 82436		<0.07	13.7
D2 82437		0.31	14.4
D2 82438		0.14	9.3
D2 82439		<0.07	0.7
D2 82440		<0.07	2.1
D2 82441		<0.07	0.7

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8609-085

REPORT: 426-4526   TJ 86 - 4,5,6 DM   PROJECT: 264   PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au GMT	Ag GMT
R2 82442		8.02	219.4
R2 82443		1.78	56.6
R2 82444		24.72	441.3
R2 82445		1.10	14.4
R2 82446		0.31	6.2
R2 82447		0.75	11.0
R2 82448		0.27	3.8
R2 82449		0.65	2.1
R2 82450		5.97	11.3
R2 82451		6.41	12.0
R2 82452		0.55	54.5
R2 82453		0.17	2.1
R2 82454		1.65	17.1
R2 82455		2.26	42.2
R2 82456		0.41	8.6
R2 82457		3.02	288.3
R2 82458		3.63	79.2
R2 82459		11.66	97.4
R2 82460		1.20	34.3
R2 82461		6.31	162.9
R2 82462		3.53	52.8
R2 82463		2.37	14.7
R2 82464		0.21	6.5
R2 82465		<0.07	1.0
R2 82466		0.75	14.1
R2 82467		<0.07	1.0
R2 82468		1.75	5.5
R2 82469		<0.07	3.1
R2 82470		0.86	8.2
R2 82471		0.07	1.7
R2 82472		0.10	3.8
R2 82473		<0.07	2.1
R2 82474		0.07	4.1
R2 82475		0.17	4.8
R2 86551		<0.07	0.7
R2 86552		<0.07	0.7
R2 86553		0.31	15.8
R2 86554		<0.07	<0.7
R2 86555		0.45	17.8
R2 86556		0.55	4.8

SAMPLE NUMBER	ELEMENT UNITS	Au GMT	Ag GMT
R2 86557		0.14	4.1
R2 86558		1.34	14.1
R2 86559		0.14	1.0
R2 86560		<0.07	1.4
R2 86561		0.07	1.4
R2 86562		0.45	17.5
R2 86563		<0.07	11.0
R2 86564		<0.07	3.8
R2 86565		<0.07	7.2
R2 86566		0.10	6.9
R2 86567		0.14	9.6
R2 86568		0.24	8.2
R2 86569		1.71	46.3
R2 86570		0.55	15.8
R2 86571		0.10	5.5
R2 86572		0.21	12.7
R2 86573		0.10	9.9
R2 86574		<0.07	2.1
R2 86575		0.14	5.5
R2 86576		0.07	6.2
R2 86577		0.69	15.4
R2 86578		0.14	6.2
R2 86579		0.31	28.1

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cc. Del Myers

29/09 G. Mc LCP

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REPORT: 426-4786 Tommy Jack (RA) PROJECT: 264 8609-110 PAGE 1

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SAMPLE NUMBER	ELEMENT UNITS	Au GMT	Ag GMT
D2 86580		0.07	9.9
D2 86581		<0.07	1.7
D2 86582		<0.07	4.5
D2 86583		<0.07	<0.7
D2 86584		0.10	30.9
D2 86585		0.07	5.1
D2 86586		0.07	6.2
D2 86587		0.62	21.9
D2 86588		0.17	3.8
D2 86589		0.07	0.7
D2 86590		0.17	0.7
D2 86591		0.21	3.1
D2 86592		1.13	5.8
D2 86593		<0.07	0.7

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REPORT: 426-5003 Tommy Jack (DM) PROJECT: 264 8610-008 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au GMT	Ag GMT
D2 86594		0.45	1.7
D2 86595		0.07	2.7
D2 86596		<0.07	1.4
D2 86597		0.07	7.9
D2 86598		0.27	12.0
D2 86599		<0.07	0.7
D2 86600		<0.07	1.7
D2 86601		0.14	4.8
D2 86602		<0.07	1.4
D2 86603		<0.07	2.1
D2 86604		<0.07	1.0
D2 86605		<0.07	1.0
D2 86606		<0.07	1.4
D2 86607		0.17	9.3
D2 86608		0.17	3.8

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8610-041

REPORT: 426-5235

Tommy J. (R.D.)
DDH-9

PROJECT: 264 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au GMT	Ag GMT
R2 86609		0.10	3.1
R2 86610		0.10	16.8
R2 86611		0.07	1.7
R2 86612		0.14	0.7
R2 86613		0.41	55.5

10/10 LCR R.McC

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TABLE OF ASSAYS D.D.H. TJ86-3

SAMPLE NO.	INTERVAL (metres)	WIDTH (m)	Au gmT	Ag gmT
82426	2.90 - 3.45	0.55	0.10	3.1
82427	3.45 - 4.50	1.05	<0.07	1.7
82428	4.80 - 5.50	0.70	<0.07	2.4
82429	5.50 - 6.30	0.80	<0.07	0.7
82430	9.94 - 10.40	0.46	0.24	7.2
82431	10.40 - 11.40	1.00	0.45	11.7
82432	11.40 - 11.85	0.45	0.48	2.1
82433	11.85 - 12.15	0.30	5.01	17.8
82434	12.15 - 12.30	0.15	<0.07	5.1
82435	13.10 - 13.40	0.30	<0.07	2.7
82436	13.40 - 14.15	0.75	<0.07	13.7
82437	14.15 - 14.90	0.75	0.31	14.4
82438	14.90 - 16.00	1.10	0.14	9.3
82439	22.40 - 22.70	0.30	<0.07	0.7
82440	22.70 - 22.90	0.20	<0.07	2.1
82441	22.90 - 23.50	0.60	<0.07	0.7

TABLE OF ASSAYS D.D.H. TJ86-1

SAMPLE NO.	INTERVAL (metres)	WIDTH (m)	Au gmT	Ag gmT
86524	23.80 - 24.80	1.00	0.07	1.4
86525	24.80 - 24.95	0.15	0.10	1.4
82351	24.95 - 25.20	0.25	1.20	9.3
82352	25.20 - 26.20	1.00	0.07	0.7
34002	31.22 - 31.32	0.11	< 0.07	< 0.7
82353	37.20 - 37.25	0.05	0.07	1.4
82354	61.60 - 62.75	1.15	2.57	12.7
82355	62.75 - 63.50	0.75	0.99	4.5
82356	63.50 - 64.50	1.00	0.17	2.1
82357	64.50 - 64.95	0.45	1.58	4.5
82358	64.95 - 66.00	1.05	0.72	9.9
82359	66.00 - 67.00	1.00	0.51	1.7
82360	67.00 - 68.00	1.00	< 0.07	0.7
82361	68.00 - 69.00	1.00	0.31	1.7
82362	69.00 - 70.00	1.00	0.07	1.4
82363	70.00 - 71.00	1.00	0.17	1.0
82364	71.00 - 71.60	0.60	0.86	3.4
82365	71.60 - 72.40	0.80	0.21	5.1
82366	72.40 - 73.40	1.00	0.62	2.7
82367	73.40 - 74.40	1.00	< 0.07	1.4
82368	74.40 - 75.70	1.30	0.27	1.7
82369	75.70 - 77.00	1.30	0.48	3.4
82370	77.00 - 78.00	1.00	0.27	1.7
82371	78.00 - 79.00	1.00	3.63	23.0
82372	79.00 - 80.10	1.00	0.07	1.7
82373	80.10 - 81.10	1.00	0.27	2.1
82374	81.10 - 81.75	0.65	0.21	2.1
82375	81.75 - 82.75	1.00	0.07	2.1
82376	82.75 - 83.75	1.00	0.31	1.7
82377	83.75 - 84.70	0.95	0.24	1.7

TABLE OF ASSAYS D.D.H. TJ86-2

SAMPLE NO.	INTERVAL (metres)	WIDTH (m)	Au gmT	Ag gmT	
82378	3.60 - 4.85	1.25	0.07	1.0	
82379	4.85 - 6.20	1.35	0.10	1.0	
34003	9.35 - 9.45	0.10	0.14	0.7	
82380	10.75 - 11.80	1.05	0.27	3.8	
82381	11.80 - 11.90	0.10	18.31	46.6	
82382	11.90 - 13.25	1.35	0.27	4.1	
82383	13.25 - 13.90	0.65	0.07	1.7	
82384	13.90 - 14.05	0.15	0.07	1.4	
82385	14.05 - 14.20	0.15	0.51	3.4	
82386	14.20 - 15.00	0.80	0.07	16.1	
82387	15.00 - 15.70	0.70	0.17	9.6	
82388	15.70 - 16.50	0.80	0.89	25.7	
82389	16.50 - 17.15	0.65	0.27	9.9	
82390	17.15 - 17.90	0.75	0.14	5.5	
82391	24.10 - 24.50	0.04	< 0.07	1.0	
82392	39.50 - 39.75	0.25	< 0.07	0.7	
82393	40.80 - 41.10	0.30	0.65	3.1	
82394	41.10 - 42.20	1.10	0.24	4.1	
82395	42.20 - 43.30	1.10	1.99	56.2	} 3.3 m. Au 2.01 Ag 35.3
82396	43.30 - 44.40	1.10	2.09	28.1	
82397	44.40 - 45.50	1.10	1.95	21.6	
82398	45.50 - 46.20	0.70	0.34	3.4	
82399	46.20 - 46.70	0.50	0.17	2.4	
82400	46.70 - 47.15	0.45	9.60	121.7	
82401	47.15 - 48.00	0.85	0.55	9.9	
82402	48.00 - 48.70	0.70	0.34	6.5	
82403	48.70 - 49.60	0.90	0.75	8.2	
82404	49.60 - 50.05	0.45	0.41	2.4	
82405	50.05 - 51.00	0.95	1.13	14.7	
82406	51.00 - 52.00	1.00	0.38	5.8	
82407	52.00 - 52.90	0.90	0.38	3.8	
82408	52.90 - 53.90	1.00	0.79	3.4	
82409	53.90 - 54.60	0.70	0.45	3.8	
82410	54.60 - 55.60	1.00	2.09	2.7	
82411	55.60 - 56.60	1.00	0.24	1.7	
82412	56.60 - 57.20	0.60	0.07	1.4	
82413	57.20 - 57.75	0.55	0.27	2.1	
82414	57.75 - 58.75	1.00	0.07	1.7	
82415	58.75 - 59.75	1.00	0.34	2.7	
82416	59.75 - 60.75	1.00	1.10	13.7	
82417	60.75 - 61.75	1.00	0.51	2.1	
82418	61.75 - 62.55	0.80	0.10	2.1	
82419	62.55 - 63.60	1.05	0.07	1.7	
82420	63.60 - 63.90	0.30	0.17	7.9	
82421	63.90 - 64.45	0.55	0.14	2.1	
82422	64.45 - 65.20	0.75	0.89	24.3	
82423	71.90 - 72.00	0.10	<0.07	1.7	
82424	73.50 - 74.60	1.10	0.07	2.1	
82425	75.95 - 76.00	0.05	3.02	12.3	

LEGEND

ROCK TYPES

S_1	CLAYSTONE
S_2	SILTSTONE
S_3	SANDSTONE
S_4	CONGLOMERATE
$S_1 S_2$	CLAY AND SILTSTONE
S_3+S_2	SANDSTONE GRADING INTO SILTSTONE
H_3	HYPABYSSAL DACITE INTRUSIVE
Bx	breccia
Cc	calcite
Cr	carbonate
~~	fault
QV	quartz vein

GEOLOGICAL BRANCH
ASSESSMENT REPORT

15,515

0 5 10 15 20 metres
SCALE 1 : 250

REVISED	TOMMY JACK CREEK PROPERTY
DEMJr. Oct., 1986	VERTICAL SECTION OF D.D.H. TJ86-1,2,3
PROJ. No. 264	SURVEY BY: DEMJr DATE: SEPT., 1986
N.T.S. 94D/4E	DRAWN BY: S.K.B. SCALE: 1:250
DWG. No. Fig. 3	NORANDA EXPLORATION OFFICE: PRINCE GEORGE, B.C.

VANCAL - 8323

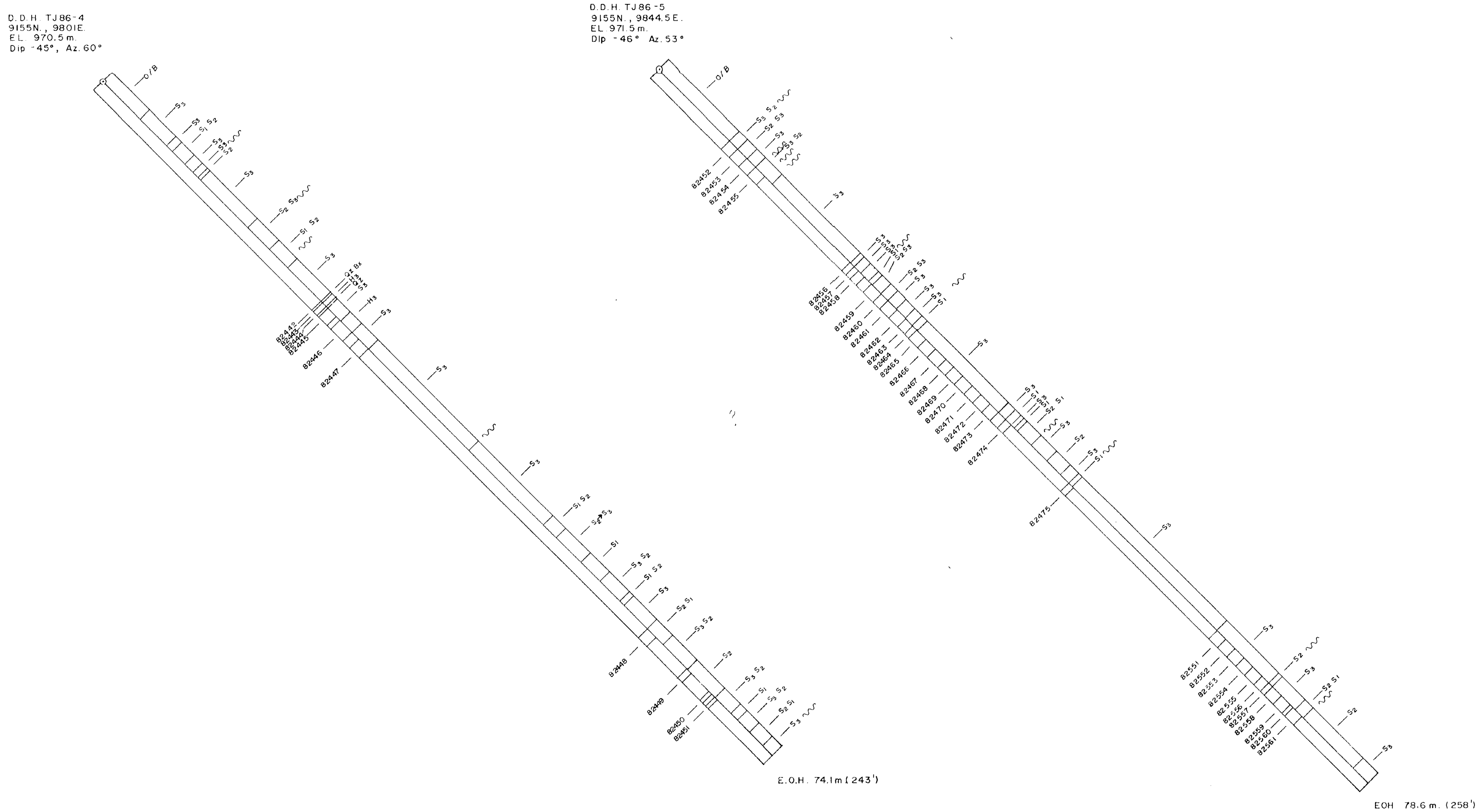


TABLE OF ASSAYS D.D.H. TJ86-4

SAMPLE NO.	INTERVAL (metres)	WIDTH (m)	Au gmT	Ag gmT
82442	24.10 - 24.28	0.18	8.02	219.4
82443	24.28 - 24.70	0.42	1.78	56.6
82444	24.70 - 24.90	0.20	24.72	441.3
82445	24.90 - 25.90	1.00	1.10	14.4
82446	26.30 - 27.60	1.30	0.31	6.2
82447	28.40 - 29.40	1.00	0.75	11.0
82448	60.35 - 61.35	1.00	0.27	3.8
82449	64.75 - 65.25	0.50	0.65	2.1
82450	67.20 - 67.50	0.30	5.97	11.3
82451	67.80 - 68.1	0.30	6.41	12.0

82442–82444: 0.8 m. Au 8.9 Ag 189

TABLE OF ASSAYS D.D.H. TJ86-5

SAMPLE NO.	INTERVAL (metres)	WIDTH (m)	Au gmT	Ag gmT
82452	7.80 - 8.80	1.00	0.55	54.5
82453	8.80 - 9.80	1.00	0.17	2.1
82454	9.80 - 10.80	1.00	1.65	17.1
82455	10.80 - 11.80	1.00	2.26	42.2
82456	21.20 - 21.60	0.40	0.41	8.6
82457	21.60 - 22.10	0.50	3.02	288.3
82458	22.10 - 22.80	0.70	3.63	79.2
82459	23.60 - 24.60	1.00	11.66	97.4
82460	24.60 - 25.40	0.80	1.20	34.3
82461	25.40 - 26.40	1.00	6.31	162.9
82462	26.40 - 27.40	1.00	3.53	52.8
82463	27.40 - 28.20	0.80	2.37	14.7
82464	28.20 - 28.70	0.50	0.21	6.5
82465	28.70 - 29.70	1.00	<0.07	1.0
82466	29.70 - 30.70	1.00	0.75	14.1
82467	30.70 - 31.70	1.00	<0.07	1.0
82468	31.70 - 32.70	1.00	1.75	5.5
82469	32.70 - 33.70	1.00	0.07	3.1
82470	33.70 - 34.70	1.00	0.86	8.2
82471	34.70 - 35.70	1.00	0.07	1.7
82472	35.70 - 36.70	1.00	0.10	3.8
82473	36.70 - 37.70	1.00	<0.07	2.1
82474	38.50 - 39.10	0.60	0.07	4.1
82475	45.50 - 45.90	0.40	0.17	4.8
86551	61.90 - 62.90	1.00	<0.07	0.7
86552	62.90 - 63.90	1.00	<0.07	0.7
86553	63.90 - 64.90	1.00	0.31	15.8
86554	64.90 - 65.90	1.00	<0.07	0.7
86555	65.90 - 66.90	1.00	0.45	17.8
86556	66.90 - 67.60	0.70	0.55	4.8
86557	67.60 - 68.00	0.40	0.14	4.1
86558	68.00 - 69.00	1.00	1.34	14.1
86559	69.00 - 70.00	1.00	0.14	1.0
86560	70.00 - 70.30	0.30	<0.07	1.4
86561	70.30 - 71.30	1.00	0.07	1.4

82454–82455: 2.0 m Au 1.95 Ag 29.6

82457–82463: 6.6 m Au 4.30 Ag 83.6

LEGEND

ROCK TYPES

- S_1 CLAYSTONE
- S_2 SILTSTONE
- S_3 SANDSTONE
- S_4 CONGLOMERATE
- $S_1 S_2$ CLAY AND SILTSTONE
- $S_3 \rightarrow S_2$ SANDSTONE GRADING INTO SILTSTONE
- H_3 HYPABYSSAL DACITE INTRUSIVE

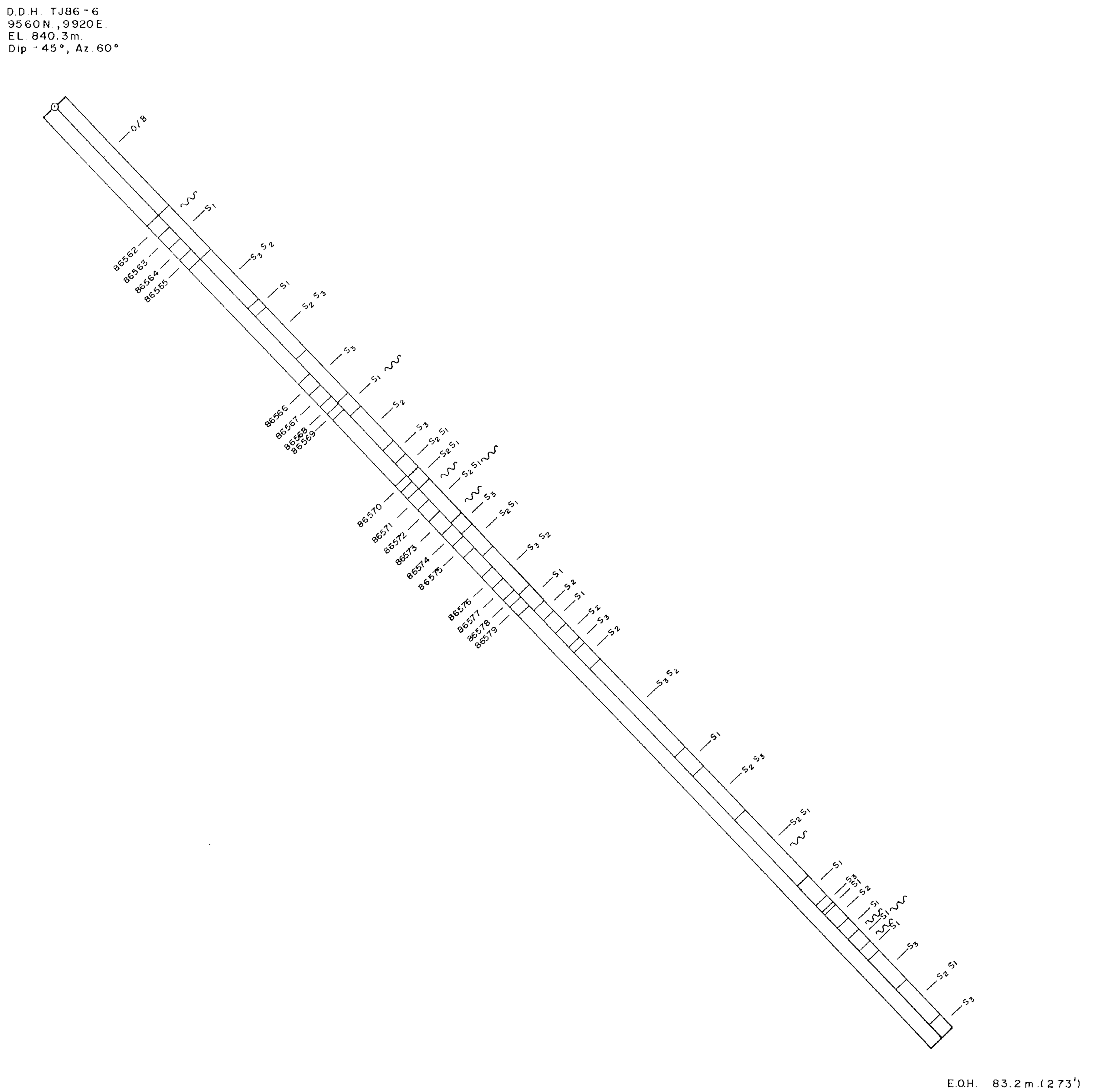
- Bx breccia
- Cc calcite
- Cr carbonate
- ∿∿∿ fault
- QV quartz vein
- Qz quartz

GEOLOGICAL BRANCH
ASSESSMENT REPORT

15,515

0 5 10 15 20 metres
SCALE 1 : 250

REVISED	TOMMY JACK CREEK PROPERTY
DEMJr., Oct., 1986	VERTICAL SECTION OF D.D.H. TJ86- 4 , 5
PROJ. No. 264	SURVEY BY: R.D. DATE: SEPT, 1986
N.T.S. 94 D/4E	DRAWN BY: S.K.B. SCALE: 1 : 250
DWG. No. Fig. 4	NORANDA EXPLORATION OFFICE: PRINCE GEORGE, B.C.



B/L 10,000 E

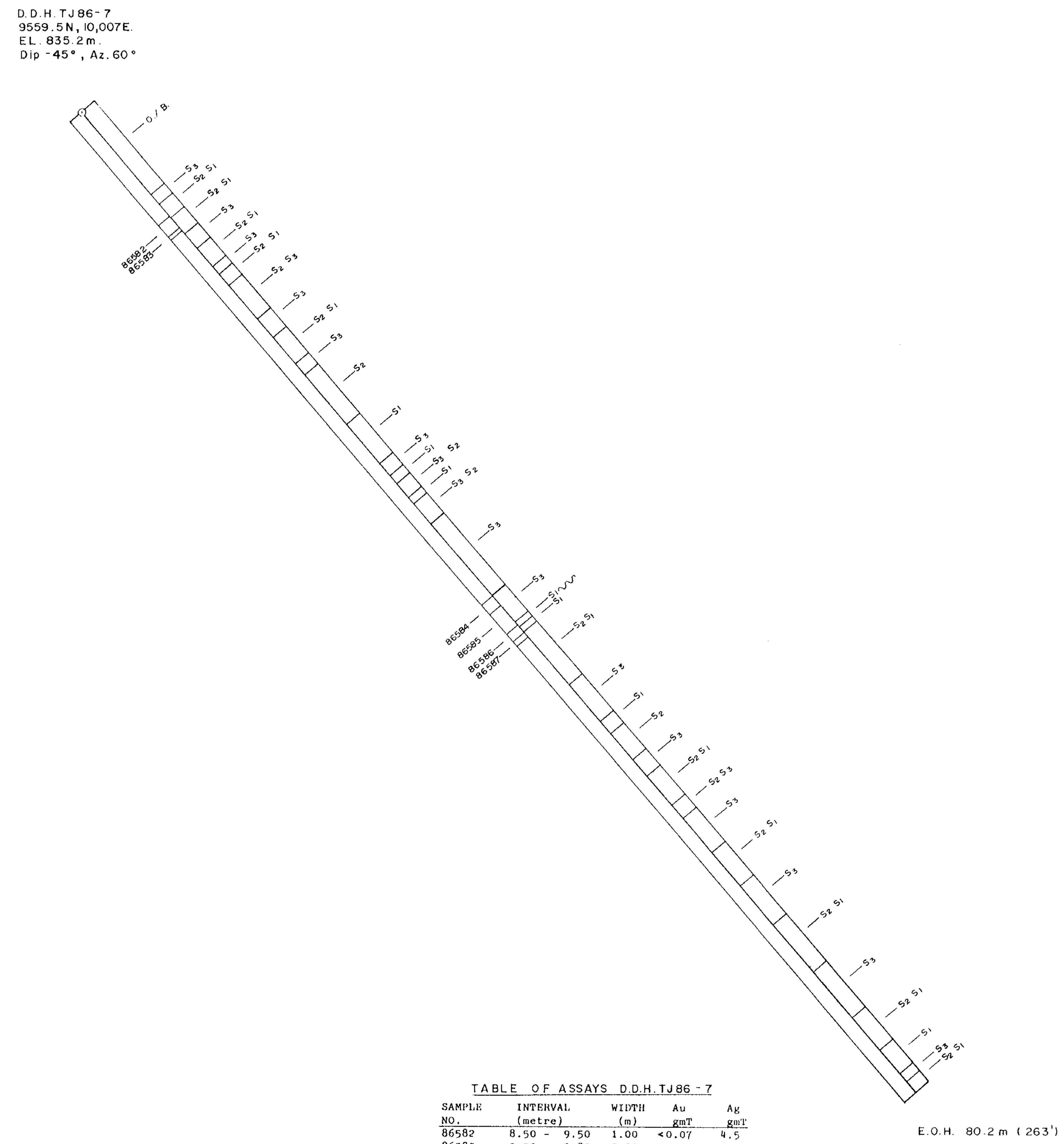


TABLE OF ASSAYS D.D.H.TJ86-6

SAMPLE NO.	INTERVAL (metres)	WIDTH (m)	Au gmT	Ag gmT
86562	9.75 - 10.75	1.00	0.45	17.5
86563	10.75 - 11.75	1.00	< 0.07	11.0
86564	11.75 - 12.75	1.00	< 0.07	3.8
86565	12.75 - 13.70	0.95	< 0.07	7.2
86566	23.90 - 24.90	1.00	0.10	6.9
86567	24.90 - 25.90	1.00	0.14	9.6
86568	25.90 - 26.60	0.70	0.24	8.2
86569	26.60 - 27.10	0.50	1.71	46.3
86570	33.00 - 33.50	0.50	0.55	15.8
86571	34.10 - 35.10	1.00	0.10	5.5
86572	35.10 - 36.10	1.00	0.21	12.7
86573	36.10 - 37.30	1.20	0.10	9.9
86574	37.30 - 38.30	1.00	0.07	2.1
86575	38.30 - 39.30	1.00	< 0.14	5.5
85576	41.10 - 42.10	1.00	0.07	6.2
86577	42.10 - 43.10	1.00	0.69	15.4
86578	43.10 - 43.70	0.60	0.14	6.2
86579	43.70 - 44.50	0.80	0.31	28.1

TABLE OF ASSAYS D.D.H.TJ86-7

SAMPLE NO.	INTERVAL (metre)	WIDTH (m)	Au gmT	Ag gmT
86582	8.50 - 9.50	1.00	<0.07	4.5
86583	9.50 - 9.80	0.30	<0.07	< 0.7
86584	39.60 - 40.40	1.00	0.10	30.9
86585	40.40 - 42.00	0.60	0.07	5.1
86586	42.00 - 42.60	0.60	0.07	6.2
86587	42.60 - 43.00	0.40	0.62	21.9

LEGEND

ROCK TYPES

S_1	CLAYSTONE
S_2	SILTSTONE
S_3	SANDSTONE
S_4	CONGLOMERATE
$S_1 S_2$	CLAY AND SILTSTONE
S_3→S_2	SANDSTONE GRADING INTO SILTSTONE
H_3	HYPABYSSAL DACITE INTRUSIVE
Bx	breccia
Cc	calcite
Cr	carbonate
∿∿∿	fault

0 5 10 15 20 metres

SCALE 1 : 250

REVISED	TOMMY JACK CREEK PROPERTY
DEMJr., Oct., 1986	VERTICAL SECTION OF D.D.H. TJ86- 6 , 7
PROJ. No. 264	SURVEY BY: R.D. DATE: SEPT., 1986
N.T.S. 94D/4E	DRAWN BY: S.K.B. SCALE: 1 : 250
DWG. No. Fig. 5	NORANDA EXPLORATION — OFFICE: PRINCE GEORGE, B.C.

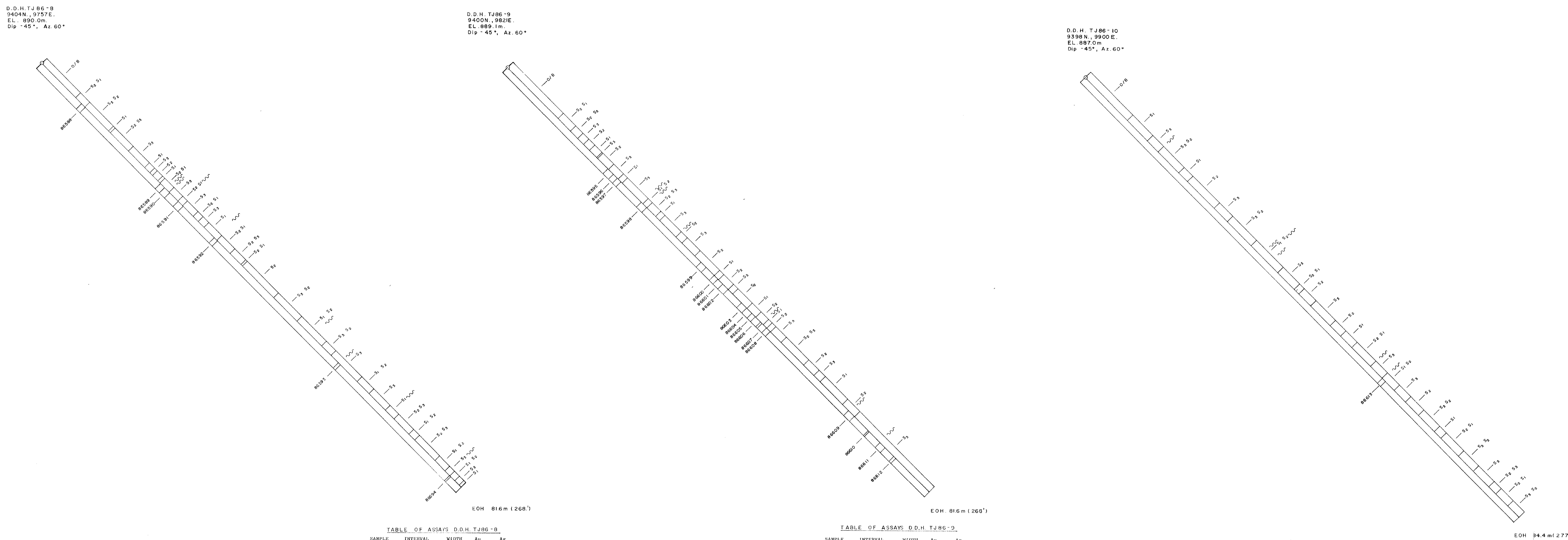


TABLE OF ASSAYS D.D.H. TJ86-8

SAMPLE NO.	INTERVAL (metre)	WIDTH (m)	Au gmT	Ag gmT
86588	7.80 - 8.50	0.70	0.17	3.8
86589	23.20 - 23.90	0.70	0.07	0.7
86590	23.90 - 24.90	1.00	0.17	0.7
86591	26.60 - 27.50	0.90	0.21	3.1
86592	33.60 - 34.20	0.60	1.13	5.8
86593	57.70 - 58.00	0.30	<0.07	0.7
86594	79.35 - 79.50	0.15	0.45	1.7

TABLE OF ASSAYS D.D.H. TJ86-9

SAMPLE NO.	INTERVAL (metres)	WIDTH (m)	Au gmT	Ag gmT
86595	19.45 - 20.45	1.00	0.07	2.7
86596	20.45 - 21.30	0.85	<0.07	1.4
86597	21.30 - 22.00	0.70	0.07	7.9
86598	25.90 - 26.90	1.00	0.27	12.0
86594	37.50 - 38.50	1.00	<0.07	0.7
86600	40.00 - 40.70	0.70	<0.07	1.7
86601	40.70 - 41.70	1.00	0.14	4.8
86602	41.70 - 42.70	1.00	<0.07	1.4
86603	45.30 - 46.30	1.00	<0.07	2.1
86604	46.30 - 47.30	1.00	<0.07	1.0
86605	47.30 - 48.00	0.70	<0.07	1.0
86606	48.00 - 49.00	1.00	<0.07	1.4
86607	49.30 - 50.10	0.80	0.17	9.3
86608	50.10 - 50.80	0.70	0.17	3.8
86609	66.10 - 67.20	1.10	0.10	2.1
86610	69.90 - 70.05	0.15	0.10	16.8
86611	72.20 - 73.20	1.00	0.07	1.7
86612	74.80 - 75.20	0.40	0.14	0.7

TABLE OF ASSAYS D.D.H. TJ86-10

SAMPLE NO.	INTERVAL (metres)	WIDTH (m)	Au gmT	Ag gmT
86613	57.80 - 58.30	0.50	0.41	55.5

LEGEND

ROCK TYPES

- S_1 CLAYSTONE
- S_2 SILTSTONE
- S_3 SANDSTONE
- S_4 CONGLOMERATE
- S_1S_2 CLAY AND SILTSTONE
- S_3-S_2 SANDSTONE GRADING INTO SILTSTONE
- H_3 HYPABYSSAL DACITE INTRUSIVE
- Bx breccia
- Cc calcite
- Cr carbonate
- ~~~ fault



0 5 10 15 20 metres
SCALE 1 : 250

REVISED	TOMMY JACK CREEK PROPERTY	
DEMJr. Oct., 1986	VERTICAL SECTION OF D.D.H. TJ86- 8,9,10	
PROJ. No. 264	SURVEY BY: R.D.	DATE: SEPT., 1986
N.T.S. 94D/4E	DRAWN BY: S.K.B.	SCALE: 1 : 250
DWG. No. Fig. 6	NORANDA EXPLORATION	OFFICE: PRINCE GEORGE, B.C.


LOCATION MAP
TOM CLAIM
TOM 2
TOM 3
TOM 4
TOM 5
TOM 6
TOM 7
SCALE 1 : 50,000
4 KILOMETRES
LEGEND
Pb 50 ppm.
Pb 100 ppm.
Pb ≥ 500 ppm.
B - HORIZON SOIL SAMPLES
DIAMOND DRILL HOLE - INCLINED
TJ 86-2
CAMPSITE
HELICOPTER PAD
CLEARING
TOM CLAIM
TOM 2 CLAIM
TOM 3 CLAIM
TOM 4
TOM 5
OLD CAMP
HIGH CAMP
Au 1
Au 2
Au 3
L.C.P.
TJ86-7
TJ86-6
TJ86-10
TJ86-9
TJ86-8
TJ86-4
TJ86-1
15,515
SCALE 1 : 5,000
REVISED
S.K.B. MAY, 1986
DEMJr. Sept./86
TOMMY JACK CREEK PROPERTY
SOIL GEOCHEMISTRY
PB IN PPM
PLAN OF 1986 DIAMOND DRILLING
PROJ. No. 264
N.T.S. 94D/4 E.
DWG. No.
Fig. 7
SURVEY BY: A.D., B.P.
DATE: MAR., 1985
DRAWN BY: S.K.B
SCALE: 1:5,000
NORANDA EXPLORATION
OFFICE: PRINCE GEORGE, B.C.