42A01NE0139 63.5020 TECK

010

REPORT

ON

NEWFIELDS MINERALS INC.

TECK TOWNSHIP

KIRKLAND LAKE, ONTARIO

REFERENCE: N.T.S. 42A/SE

BY: L. J. Cunningham, B.Sc., P. Eng.
Mining Engineer

Dated at KIRKLAND LAKE, Ontario
August 20, 1987

L.J. Cunningham, B.Sc., P. Eng., 1 McPhee Ave., Kirkland Lake, Ontario P2N 1M1

63.5020

THE KIRKLAND BASIN PROPERTY

OF

NEWFIELDS MINERALS INC.

The property lies contiguously north of 4 former producers, Teck Hughes Lake Shore, Wright Hargreaves and Sylvanite Mines, which yielded 18.7 million ounces of gold from the Kirkland Lake Main Break. Underground development on the 3000 level by Lake Shore Mines revealled the presence of 570 feet of gold mineralization grading 0.118 ounces gold per ton over 5.7 feet width on No. 29 Vein in the central part of the Newfields Basin property. A second vein, the Narrows Break, was developed and stoped to a limited extent on the Lake Shore property near the Newfields' south boundary. The easterly extension of this vein should lie in or near the south boundary of the Basin property.

Between March 1985 and March 1987, Newfields drilled 36 holes, totalling 104,755 feet. The holes were designed (i) to test the property at various depths for gold-bearing structures north of the Main Break and (ii) for geological information.

In January 1986 a new gold-bearing zone was discovered and subsequent drilling was concentrated on this mineralization named the Brown Altered Zone (BAZ). From numerous drill intersections, this zone is estimated to be 150 feet wide at the 3000 foot level and contains anomalous gold values throughout. It is bounded by an upper and a lower gold zone which returned 0.145 oz. gold per ton/3.2 feet and 0.440 oz. gold/ton/5.2 feet respectively, from Hole N-85-17. It occurs at the unconformity between underlying mafic volcanic and overlying sediments but appears localized at the intersection of the Lake Shore fault system (NE/SW) with the easterly striking unconformity. It is geologically and geometrically complex and is thought to be a wedge-shaped thrust block. The widespread gold mineralization and alteration indicate the existence of a major hydrothermal system. It represents a new style of gold mineralization for the Kirkland Area. Further work is warranted and underground development is recommended from the former producers to the south. Other known veins, including the No. 29, will be investigated at the same time.

Signed,

L. J. Cunningham, B.Sc., P.Eng.

Kirkland Lake, Ontario

OM86-6-P-085

Newfields



010C

INDEX

	PAGE
SUMMARY	1
INTRODUCTION	1
LOCATION & DESCRIPTION	2
HISTORY	4
GENERAL GEOLOGY	5
SURFACE GEOLOGY	5
GEOLOGY OF THE 3075 FOOT LEVEL CROSSCUT	11
ECONOMIC GEOLOGY	11
VEINS DESCRIPTIONS	13-16
CONCLUSIONS & RECOMMENDATIONS	17
REFERENCES	20
CERTIFICATE	21

FIGURES:

FIGURE 1	LOCATION MAP	1
2	CLAIM MAP	3
3	GENERAL GEOLOGY	6
4	THE TEMISKAMING GROUP ROCKS	7
5	SURFACE GEOLOGY	8
6	THE KIRKLAND LAKE & VINDICATOR INTRUSIVE ROCKS	9
7	PLAN & SECTION - 3075 FOOT LEVEL TO SURFACE.	10

L.J. Cunningham, B.Sc., P. Eng., 1 McPhee Ave., Kirkland Lake, Ontario P2N 1M1

INTRODUCTION - FIGURE 1

The property is a gold prospect lying within the Town of Kirkland Lake and north of the highly productive Kirkland Lake Main Break. The potential of the property lies in finding viable gold deposits in structures lying north of and probably parallel to the Main Break.

The property was originally known as Kirkland Basin Mines Limited. It has been investigated by trenching, surface and underground drilling and by a crosscut from the Lake Shore Mine. Significant gold mineralization was found but no production resulted. Remapping of the crosscut in 1985 identified numerous attractive drill targets.

This report recommends a major program of deep drilling to test the known structures.

The writer has lived and worked in Kirkland Lake for over 25 years and can claim extensive experience and knowledge of the type of gold mineralization being sought by Newfields Minerals Inc.

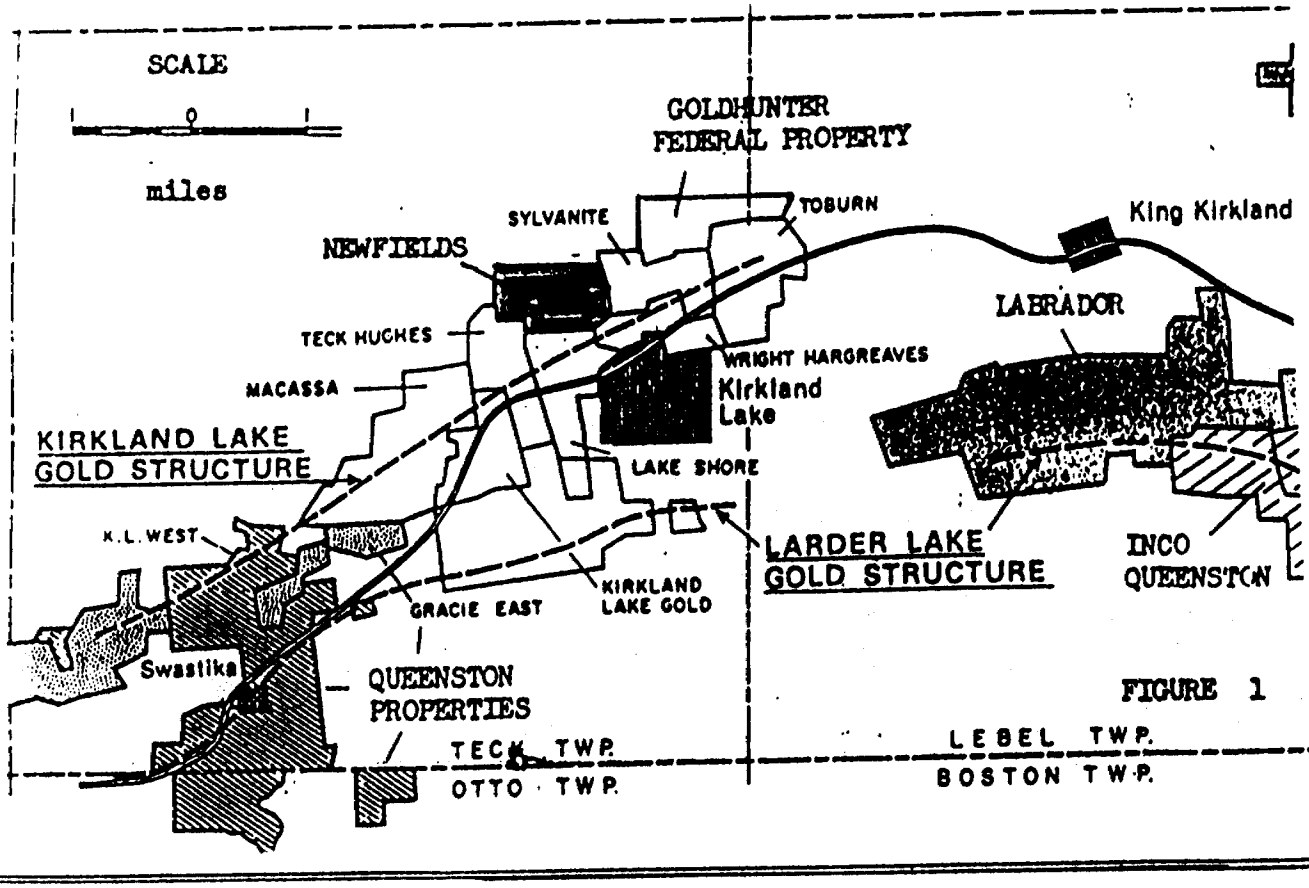


FIGURE 1

L.J. Cunningham, B.Sc., P. Eng., 1 McPhee Ave., Kirkland Lake, Ontario P2N 1M1

Newfields

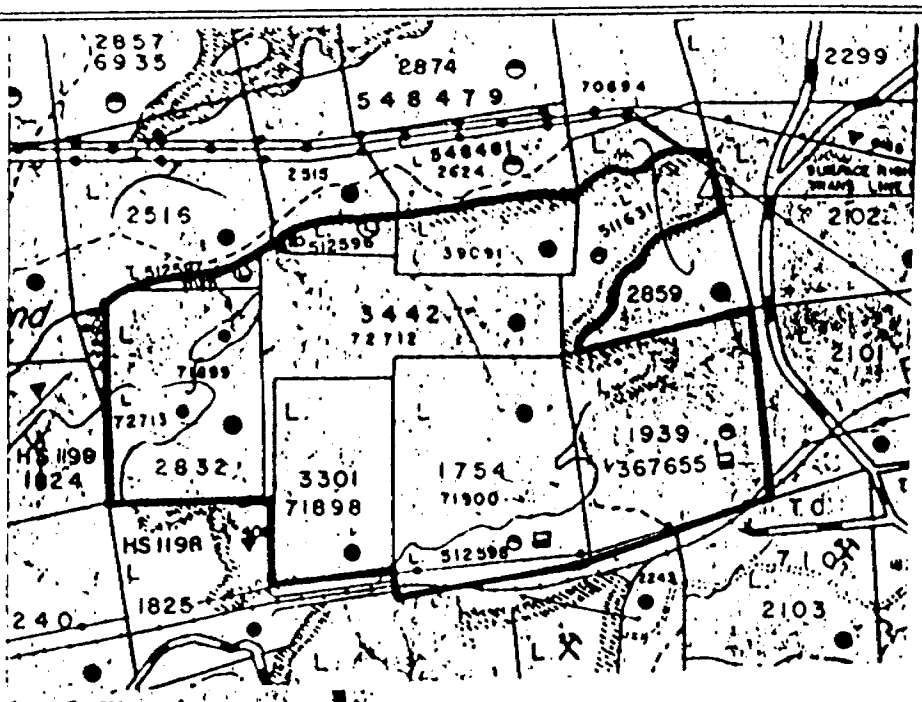
LOCATION & DESCRIPTION - FIGURE 2

The property lies in the northeast quarter of Teck Township, within the Town of Kirkland Lake, one mile north of Highway 66. Access is excellent. A paved road, known as the Goodfish Road, parallels the east boundary of the property. From this road 4 secondary gravel roads extend westerly into the property. The central part of the property is covered by tailings and water. West of the lake, the land portion of the property is accessible by secondary gravel roads which cross the Teck Hughes property. The Ontario Northland Railway extends along the south boundary of the property. Ontario Hydro power lines traverse the north and south parts of the property.

The property, located in the Township of Teck, contains some 221.87 acres in 11 contiguous mining claims as follows: -

PATENTED CLAIMS:	(6)	L71998, L71899)	- 35.70	acres	
		) L72713)	- 36.50	"	
		L71900	- 31.00	"	
		L72712	- 32.40	"	
		L39091	- 15.00	"	140.60
LEASED CLAIMS:	(4)	L367655	- 40.03	acres	
		L512596	- 7.31	"	
		L512597	- 4.68	"	
		L512598	- 12.19	"	64.21
UNPATENTED CLAIMS:	(1)	L511631	- 17.06	acres	17.06
Lease pending					
TOTAL ACRES					221.87

All claims are held under option from Messrs. D. L. McKinnon and R. V. Rinaldi, both of Toronto. Surface rights are held by Eastmaque Gold Mines Ltd., of Toronto who are interested in the mill tailings that fill the lakebed. It is understood that all current pertinent taxes have been paid to date by Eastmaque but this has not been verified by the writer.



DISTRICT OF TIMISKAMING

LARDER LAKE MINING DIVISION

SCALE: 1-INCH = 20 CHAINS

DISPOSITION OF CROWN LANDS

- PATENT, SURFACE AND MINING RIGHTS
- " , SURFACE RIGHTS ONLY
- " , MINING RIGHTS ONLY
- LEASE, SURFACE AND MINING RIGHTS
- " , SURFACE RIGHTS ONLY
- " , MINING RIGHTS ONLY
- LICENCE OF OCCUPATION
- ROADS
- IMPROVED ROADS
- KING'S HIGHWAYS
- RAILWAYS
- POWER LINES
- MARSH OR MUSKEG
- MINES
- CANCELLED

CLAIM MAP

NEWFIELDS MINERALS INC.

TECK TWP.

L.J.Cunningham, B.Sc., P.Eng.

From:
Ontario M.N.R. Plan M.392

FIGURE 2

Newfields

LOCATION & DESCRIPTION

Titles to 10 of the 11 claims are registered in the name of the Guaranty Trust Company of Bay Street, Toronto who hold them in escrow for the Eastmaque Company and will perform a similar function for Newfields. Under the terms of the Eastmaque option agreement with McKinnon and Rinaldi, surface access to the tailings area is guaranteed within certain workable limits.

Claim L512598 is registered in the name of R. V. Rinaldi. It is not covered by the Eastmaque option agreement as no tailings occur on this parcel; the surface rights are held by a third party. Mr. Rinaldi has advised the writer that all current taxes have been paid.

The claims, all in the Township of Teck, are in the Larder Lake Mining Division. The Patented and Leased claims are registered with the Local Master of Titles in Haileybury, Ontario whereas the unpatented is still registered at the Office of the Mining Recorder in Kirkland Lake.

HISTORY

"Kirkland Basin Gold Mines Ltd., was incorporated in 1931, and was controlled by Kirkland Lake Gold Mining Co. Ltd. Part of the property was acquired from Pawnee-Kirkland Gold Mines Ltd. Considerable surface diamond-drilling was done before the property was optioned to Lake Shore Mines Ltd. in 1938. The agreement called for Lake Shore to drive a crosscut north through the property from the 3,075-foot level of the Lake Shore Mine.

The Annual Report of Lake Shore Mines Ltd.for the year ending 30 June 1940 listed 2,402 feet of crosscutting, 712 feet of drifting, and 12,049 feet of diamond-drilling performed on the Kirkland Basin property. A summary of the results stated that a number of gold-bearing fractures were exposed. Because the values encountered were erratic, no ore was developed." (Savage)

NOTE: Kirkland Basin Gold Mines owned only 4 of the present claim group.

The two easterly claims, 511631 and 367655, were originally (1928) known as the Vindicator property. Todd reports that a hole was drilled to test under the northeast arm of the lake. Brecciated porphyry and quartz were encountered but "gold values were unimportant". There is much evidence of old trenching on the Vindicator claims.

In 1960 Westwind Explorations Limited drilled 4 surface holes totalling 3,517 feet.

Newfields

Locations are known for all holes but logs are available for only holes 1 and 2. Brief comments are available for holes 3 and 4.

During 1984-5 Newfields Minerals Inc. mapped the surface outcrop, drilled 11 surface holes (5,355 feet) and remapped the mine workings on the 3075 level.

GENERAL GEOLOGY - FIGURES 3 and 4

All bedrocks in the immediate area are Archean. The oldest recognized are mafic volcanics of the Kinojevis Group. Mafic intrusive rocks (gabbro and diorite) form a minor part of the unit.

Overlying the Kinojevis Group with great unconformity is the Temiskaming Group. It is about 3,000 metres in thickness and consists of alkalic volcanic rocks interlayered with fluvatile sedimentary rocks.

The Temiskaming Group occupies a long linear synclinal trough extending for 150 miles from Val D'Or, Quebec to Matachewan, Ontario. It is thought to represent a rift system which was the depositional site for the sediments and the locus for trachytic volcanism which resulted in interbedded horizons of tuff and sediments with numerous syenitic stocks and dikes.

SURFACE GEOLOGY - FIGURES 5, 6 and 7

The property lies near the north contact of the syncline hosting the Temiskaming Group rocks which are usually an interlayered sequence of sediments and trachytic tuffs (with steep southerly dips and tops to the south) intruded by large, east-west striking approximately conformable bodies of mafic syenite and quartz-feldspar porphyry.

However, on the Newfieldsground extensive intrusive activity and the presence of a previously, unrecognized debris flow have altered the usual Temiskaming sequence.

Pillowed mafic volcanics, (north facing) of the Kinojevis Group, form the basement rocks. 400 feet of steeply dipping, often highly sheared, conglomerate overlie the volcanics. The contact is not exposed but is faulted and near vertical. A massive debris flow overlies the conglomerate and occupies the central part of the property. It is intruded by a 500 foot wide felsic dike (bi-modal quartz-feldspar-porphyry) in the east and by a 700 foot wide mafic syenite dike in the west. A massive mafic syenite unit which attains a thickness of 800 feet separates the debris flow from massive to thin bedded, fine grained trachytic tuffs. The tuffs which are 500 feet in thickness, steeply dipping, south facing,are overlain by conglomerate along the south boundary of the property. Two cross faults occur near the east boundary of the property. Faulting and shearing are intense in the conglomerates near the volcanic contact.

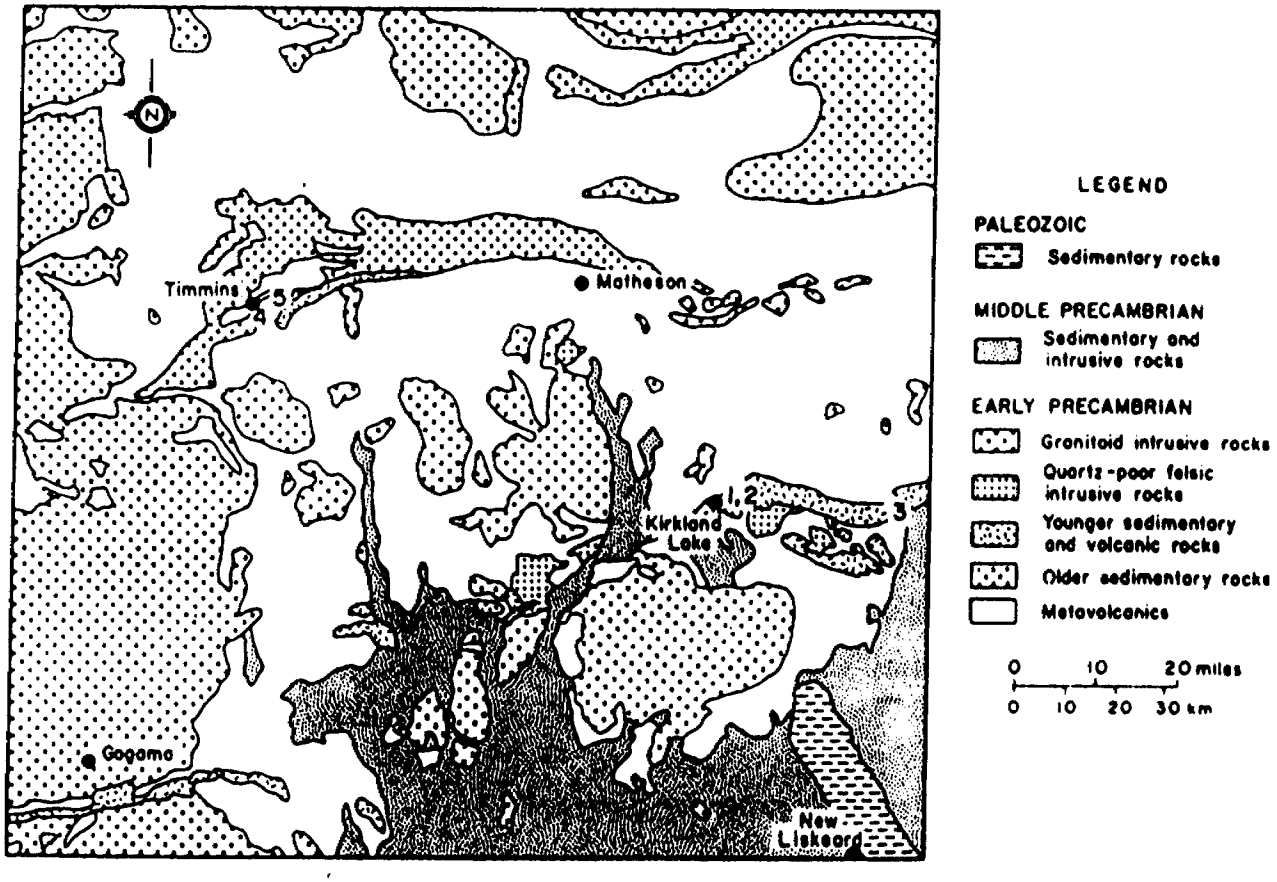


Figure 1 Generalized geology of the Abitibi greenstone belt.

Source - O.G.S. M.P. 116 1983

FIGURE 3

L.J. Cunningham, B.Sc., P. Eng., 1 McPhee Ave., Kirkland Lake, Ontario P2N 1M1

Newfields

1	Kirkland Lake "Break"	23 million oz. Gold (7 mines)
2	Upper Canada Mine	1.5 million oz. Gold
3	Kerr Addison-Chesterville	10 million oz. Gold
4	McGarry Gold Partnership	
5	McIvor-Tegren	
△	NEWFIELDS MINERALS INC.	

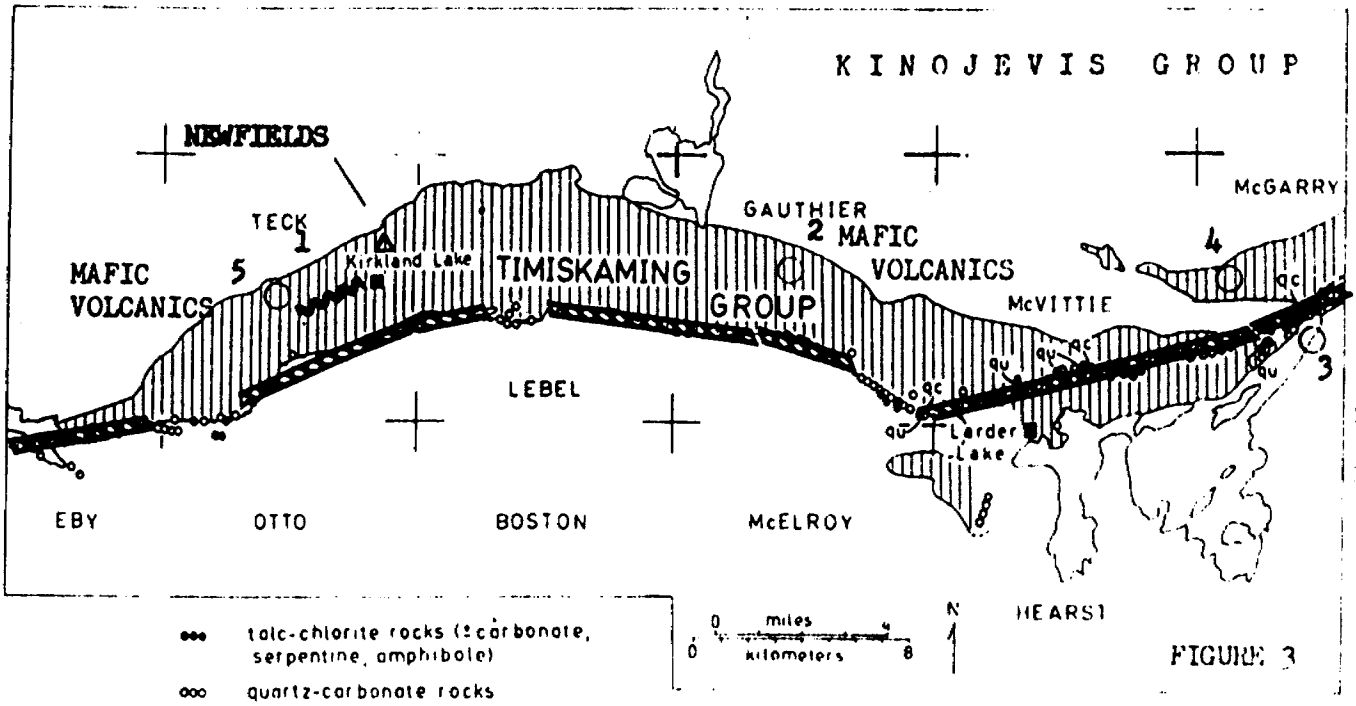


FIGURE 3

SOURCE: L. A. Tihor and J. H. Crocket, Report of Activities, Part A, Geological Survey of Canada Paper 77-1A (1977) Page 365 with modifications by L. J. Cunningham, B.Sc., P. Eng., Sept. '85

TEMISKAMING GROUP
KIRKLAND-LARDER AREA
ONTARIO

FIGURE 4

L.J. Cunningham, B.Sc., P. Eng., 1 McPhee Ave., Kirkland Lake, Ontario P2N 1M1

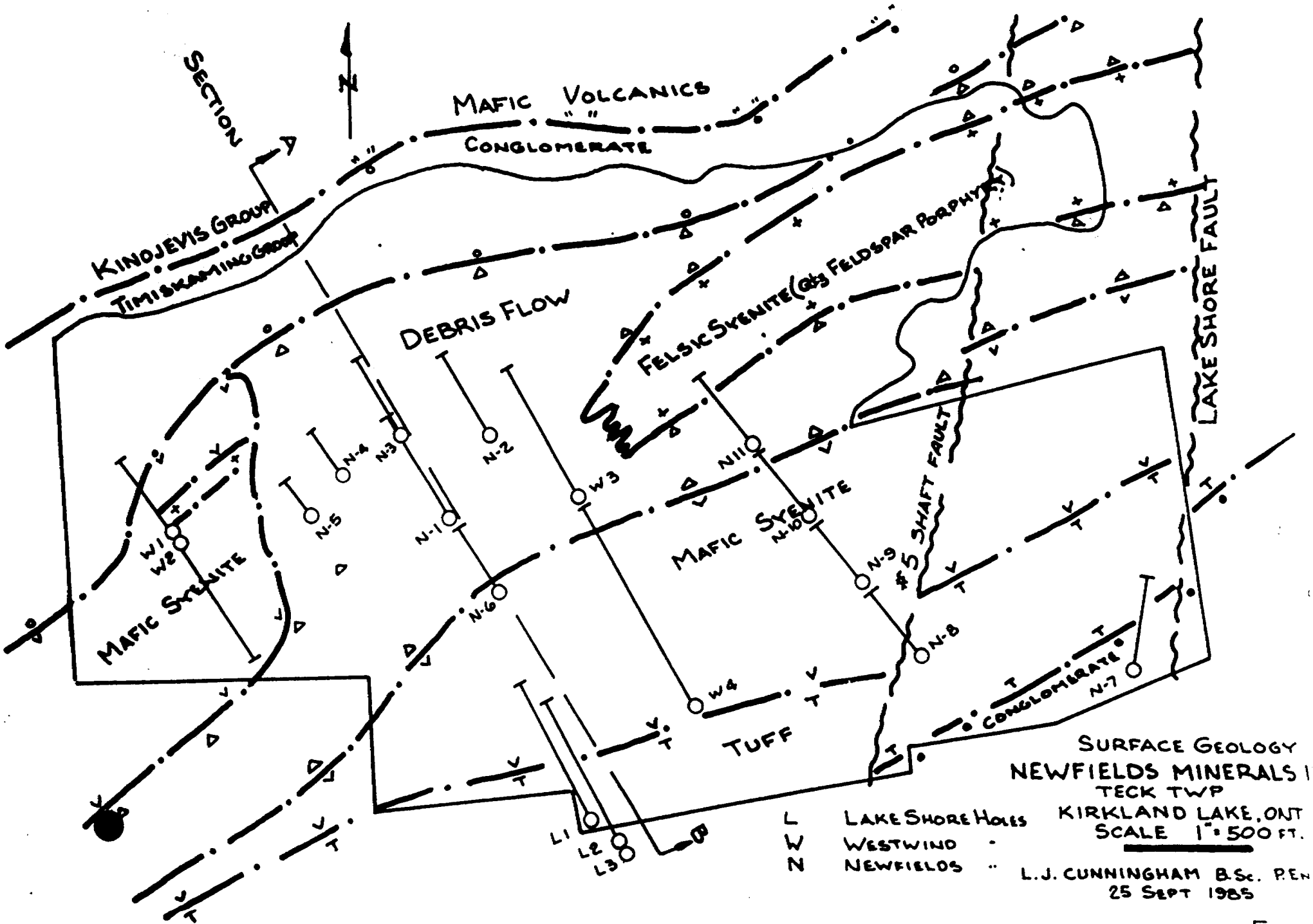
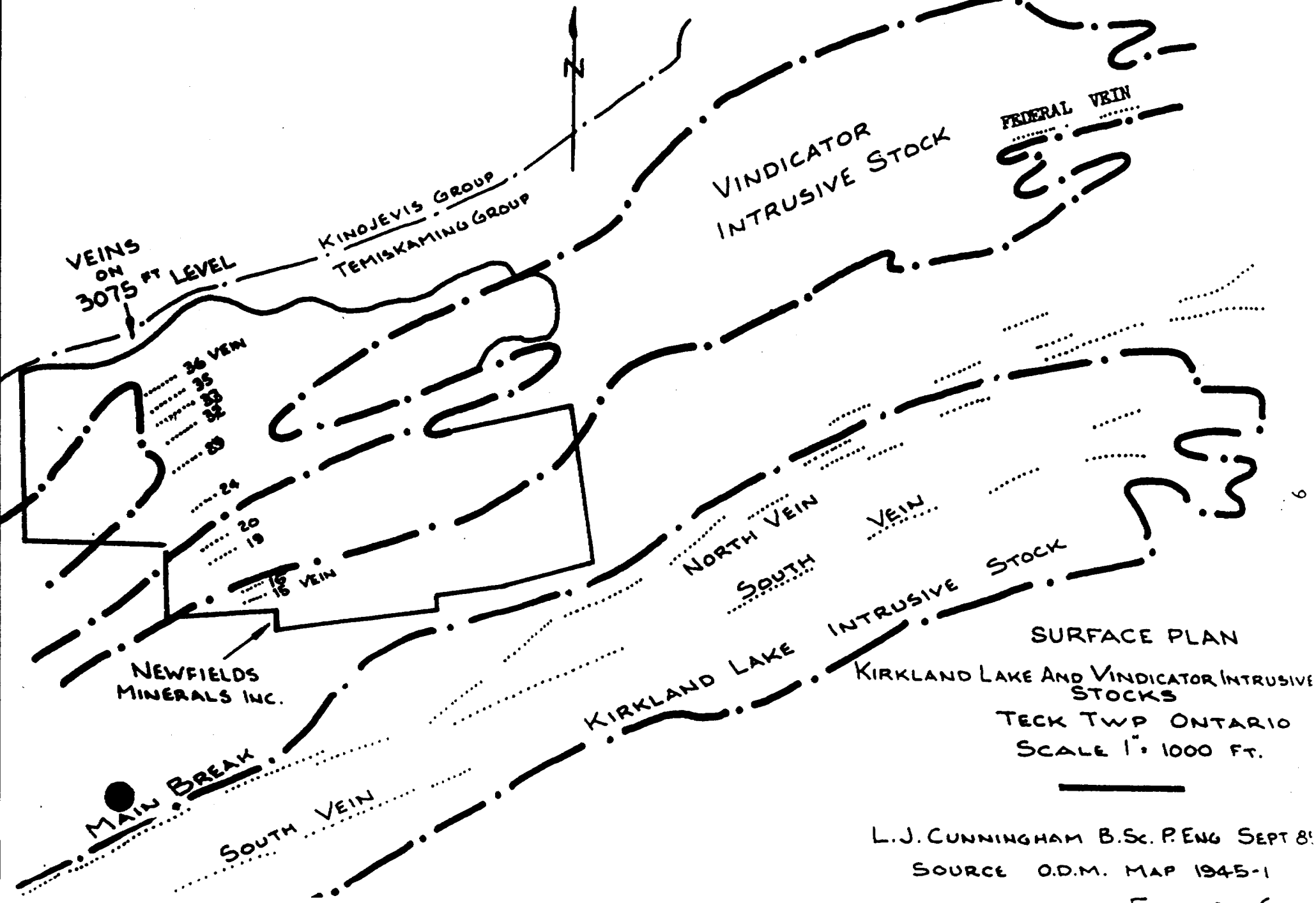

SECTION
N
MAFIC VOLCANICS
" "
CONGLOMERATE
KINOJEVIS GROUP
TIMISKAMING GROUP
DEBRIS FLOW
FELSIC SYENITE (obs FELDSPAR PORPHYRY)
LAKE SHORE FAULT
#5 SHAFT FAULT
MAFIC SYENITE
MAFIC SYENITE
TUFF
CONGLOMERATE
W1
W2
W3
W4
N-1
N-2
N-3
N-4
N-5
N-6
N11
N-10
N-9
N-8
N-7
L1
L2
L3
L LAKE SHORE HOLES
W WESTWIND "
N NEWFIELDS "
SURFACE GEOLOGY
NEWFIELDS MINERALS LTD
TECK TWP
KIRKLAND LAKE, ONT
SCALE 1" = 500 FT.
L.J. CUNNINGHAM B.Sc. P.ENG
25 SEPT 1985

FIGURE 5



SURFACE PLAN

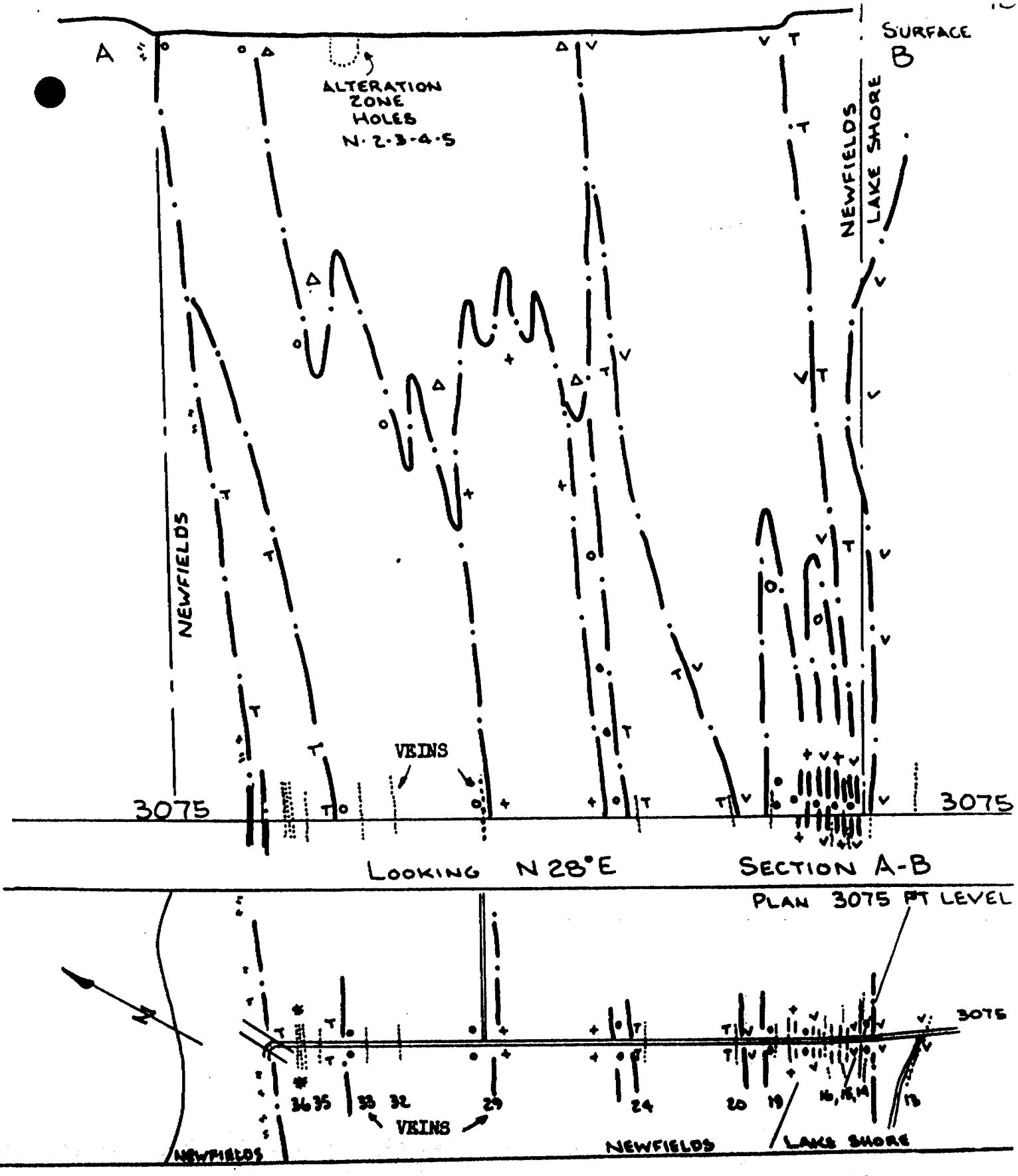
KIRKLAND LAKE AND VINDICATOR INTRUSIVE STOCKS

TECK TWP ONTARIO

SCALE 1" = 1000 FT.

L. J. CUNNINGHAM B.Sc. P.ENG SEPT 8

SOURCE O.D.M. MAP 1945-1



QUARTZ FELDSPAR PORPHYRY — Q F P

DIABASE

MAFIC SYENITE

TUFF

CONGLOMERATE

MAFIC VOLCANICS

PLAN & SECTION
NEWFIELDS MINERALS INC.
TECK TWP.
KIRKLAND LAKE ONT
SCALE 1" = 500 FT.

L. J. CUNNINGHAM B.Sc. P.ENG.

FIGURE 7

Newfields

GEOLOGY OF THE 3075 FOOT LEVEL CROSSCUT - FIGURE 7

Two tuff horizons were intersected. The north tuff horizon is sub-vertical, 250 feet wide and separated from the mafic volcanics by a 50 foot wide, fractured, steep, west dipping diabase dike. The tuffs vary from a fine, massive, black ash tuff to trachytic agglomerate with rounded and flattened clasts to 6" in size in a dark mafic matrix.

It is overlain by 600 feet of massive conglomerate which contains horizons of flattened pebbles and sections showing intense carbonate alteration.

A 500 foot dike of felsic syenite - a bi-modal quartz-feldspar dike - has intruded the conglomerate isolating a narrow 50 foot layer of conglomerate on the south contact. The dike is sub-vertical and is assumed to have steep southerly dip. Surface drilling revealed that it does not extend to surface over the crosscut.

A south tuff horizon, 400 feet thick, overlies the conglomerate. It is massive to well bedded, sub-vertical and very fine grained.

A 50 foot wide mafic dike has intruded the south contact of the tuff separating it from conglomerate. This conglomerate unit extends to the south boundary of the property and within this distance of 450 feet it is cut by two narrow mafic and two narrow felsic syenite dikes. The north contact of the Kirkland Lake stock lies 200 feet south of the Newfields/Lake Shore boundary.

The south tuff horizon and the overlying conglomerates are probably correlative to the similar units exposed on surface near the south boundary. The north tuff horizon apparently wedged out at an unknown elevation against the mafic volcanics.

The wide north conglomerate unit is largely replaced by the debris flow at surface. The elevation at which they intermingle is not known.

ECONOMIC GEOLOGY

Charlewood describes the Main Ore Zone as follows:

"The mines of Kirkland Lake occur in a fault zone that strikes N67^{O}E and dips steeply south. The fault and fracture system are principally in a composite syenite intrusion of which the axis also strikes N65^{O}E and dips steeply south. The syenites intrude Timiskaming conglomerate, greywacke, and tuff.

Newfields

The sequence of geological events in the vicinity of the mines has been:

1. Folding of the Timiskaming series
2. Intrusion of the syenite stock
3. Thrust faulting
4. Ore deposition
5. Intrusion of diabase dikes
6. Post-ore faulting

The rocks of the Timiskaming series are relatively unsheared and unaltered except along the north and south margins and in the immediate vicinity of faults within the syncline.

The intrusive rocks of the camps, with the exception of diabase dikes, are host rocks for 95% of the ore."

Ore shoots occur over a strike length of 20,000 feet and to a depth of 8100 feet on the Main Break. The gold is associated with (i) simple, narrow quartz veins, (ii) quartz stock works and (iii) wide quartz breccia zones.

Two principal stocks exist, - the Kirkland Lake and the Vindicator stocks. The Kirkland Lake stock is tadpole shaped, 2,000 feet wide in the east and tapering to 400 feet in the west. 23,000,000 ounces of gold have been produced from fracturing within or near the margins of the stock. Ore was mined to a depth of 8,100 feet. The stock and the gold mineralization plunge to the west.

The Vindicator stock crosses the Newfields claims and underlies about 40% of the property. The mafic phase of the stock crosses the south half of the property as a dike averaging 800 feet in width in the central part and tapering to 300 feet in the west. This part of the stock shows a major reduction in size before reaching the 3075' level where it exists as several dikes with a total thickness of about 130 feet. Strong deformation, faulting and veining is evident in the 3075 foot level crosscut (i.e. under the intrusive). In the north half of the block a bi-modal quartz-feldspar-porphyry (QFP) dike, averaging 500 feet in width, is exposed on the east boundary and has been traced by drilling to the centre of the property where it apparently plunges steeply to the west - it was intersected in the 3075 foot level crosscut. Strong veining with persistent gold mineralization was investigated along the north contact of the QFP dike. To the east of Newfields property the QFP dike lies totally within the mafic syenite phase of the Vindicator stock. A separate mafic syenite lies on the west boundary - its relationship to the Vindicator stock is not known.

Newfields

ECONOMIC GEOLOGY

Since the revival in gold exploration considerable expenditures have been directed at identifying structures north of the known gold-bearing breaks within the Temiskaming Group of rocks between Kirkland Lake and the Quebec border.

During the last 5 years Lac Minerals Limited have conducted a major and continuing program of exploration on the McIvor claims and the north part of the Tegren property in a search for structures parallel and north of the Main Break. These properties lie 2 miles west of the Newfields property.

20 miles to the east in McGarry Township, McGarry Gold Partnership Ltd. has completed 30,000 feet of drilling and has commenced a further 30,000 foot drilling program to test structures within the Temiskaming Group of rocks near the north contact with Kenojevis volcanics at a site 2 miles north of the Kerr Addison Mine. Results have not been published.

VEIN DESCRIPTIONS

For 6 days in August and September, 1985,the 3075 foot level crosscut on Newfields property was available for mapping, courtesy of Lac Minerals Limited, which company has rehabilitated the Lake Shore No. 5 shaft to the 1800 foot level. Below the 1800 foot level the shaft is usable for inspection purposes only but there are no existing services (air, water, electricity). Mapping of the crosscut was handicapped by the lack of water because the walls and backs of all headings are covered by a film of dust and mud. However, by scaling, sufficient exposures were made to allow re-mapping.

No. 13 Vein (The Narrows Break) lies 200 feet south of the Newfields south boundary within the Lake Shore Mine. It is believed to be related to fracturing associated with the north contact of the Kirkland Lake stock. Lake Shore Mine tested the vein by 1,200 feet of drifting on the 3075 level and by raising for 800 feet from the 4200 level. Extensive areas of gold mineralization were encountered and several sections were tested by limited stoping. The resulting grade ranged from 0.1 to 0.27 oz. gold per ton which was well below the grade of 0.45 oz. gold per ton of the Main Break. No work was done on the Narrows Break after 1945. Drilling information on higher levels of the Lake Shore and Wright-Hargreaves Mines indicates that the Kirkland Lake stock bulges into the Newfields property. This suggests that the vein and possibly gold mineralization may be found on the Newfields' side of the line. At surface, the north contact of the Kirkland Lake stock lies 100 - 200 feet south of the Newfields' south boundary. If the Narrows vein has continuity and remains near the north contact of the Kirkland Lake stock, its position above the 3075 foot level will be close to the common

Newfields

Newfields/Lake Shore boundary.

Nos. 14, 15 & 16 Veins are all 2" - 12" wide, showing strong, dark red alteration (hematitization), silicification, brecciation and mylonitization. They are on dike contacts and locally are more promising targets than No. 13 Vein. They dip 50^{0} to 70^{0} north. Nos. 15 & 16 Veins lie within the Newfields ground within 100 feet of the south boundary. Locally they dip northerly but it is the writer's opinion that they are related to the Vindicator stock and should assume vertical to steep southerly attitude between the 3000 level and surface and thus remain within the Newfields ground. No. 14 Vein lies approximately 30 feet south of the Newfields south boundary. The writer believes that this vein will similarly assume a vertical to steep southerly dip and will enter Newfields property to retain its relationship to the Vindicator stock.

Note: Many veins within the Main Break show a tendency to curve and assume northerly dips but the overall trend is steeply south.

No. 19 Vein is located in conglomerate on a major fault structure which is also occupied by a narrow lamprophyre dike. The vein shows brecciated quartz-carbonate filling, strong, brick red alteration and a set of ladder (horizontal) quartz veins. Total width is 2 - 3 feet. 10 feet to the north is a strong, steeply north dipping 2' - 3' shear zone containing pods of quartz-carbonate and syenitic material. To the north of the fault lies an intensely brecciated, hydrothermally altered zone 40' wide with bright red to light colouring due to carbonatization, syenitization and quartz flooding. The irregular veining is both horizontal and vertical. The brecciation diminishes northward toward the mafic syenite intrusive.

No. 20 Vein This structure is located on a tuff/mafic syenite contact. Strong red hematitic alteration and silicification are associated with a prominent steeply north dipping structure 4" - 18" wide. Quartz is plentiful both as vertical and horizontal (ladder) veins.

Nos. 19 & 20 Veins are noted by Burke as being one of the targets in surface hole W-4. Burke refers to a zone of reddish alteration (approximately 600' below surface) as being the projected extension of the vein or veins.

No. 24 Vein This is a steeply dipping structure in tuff, 1' - 2' wide, with intense red alteration and silicification, occupied by irregular quartz and cut by a network of ladder veins. It is hosted by tuff but lies approximately 100 feet south of the south contact of the quartz-feldspar-porphyry dike.

Newfields

No. 29 Vein This vein was tested by Lake Shore Mines by 712 feet of drifting. It is a strong structure on the north contact of the quartz-feldspar-porphyry. The structure is also occupied by a 2 - 3 foot mafic syenite dike and a 6" - 12" pale green mafic dike, possibly lamprophyre. It consists of strong, fine fracturing over a width of 6 feet along which alteration has bleached the normally dark grey-green rocks to a pale tan colour. Fine pyritic is erratically distributed along the structure but the total amount is less than 1%. Quartz is not plentiful but occurs in pods and lenses which are a maximum of 6" wide and 10 feet long. The bleaching, which is readily apparent and spectacular, is erratic and wanders from one set of fractures to another. The total observed mineralization is low. In areas where high (1 oz. Au/ton) values are reported, a small amount of telluride was noted. The heading averaged 0.118 oz. gold per ton for a length of 570 feet over a width of 6.6 feet. Two holes are known to have tested the vein above and below the level. Near the east face of the drift where the vein can be observed entering the north wall, the alteration and fracturing remain strong and continuous. In 1960, Westwind drilled one hole, W-3, and in 1985 Newfields drilled 5 holes to seek the near surface continuation of this vein. All holes encountered strong alteration without veining or values. The QFP dike was not intersected. All holes were in debris flow. It is concluded that the veining and gold mineralization are controlled by the QFP which plunges westerly below the drilling. The holes are presumed to have intersected the alteration 'front' beyond the veining and gold mineralization.

No. 32 Vein This is a zone, 3' - 5' wide, of fine, hairy-like quartz-carbonate fractures parallel to the foliation which is steeply north. The host rock is fine grained and altered and may be a greywacke or a tuff. The enclosing rocks, both to the north and south, are conglomerates. Channel sampling by Lake Shore did not yield values but a pilot hole (drilled prior to the crosscut) cut 0.16 oz. gold per ton over 21 inches, and 0.04 oz. gold per ton over 18". A hole, No. 2547, located 200 feet to the east returned 0.14 oz. gold per ton over 26". A hole, located 300 feet to the west, did not report any values.

No. 33 Vein It lies in conglomerate and consists of 6" gouge with brick red alteration plus irregular quartz-carbonate veining. It is described by Lake Shore as a strong break. Values of 0.02 oz. gold per ton are reported.

Newfields

No. 35 Vein It lies in mafic tuff approximately 30 feet north of a faulted contact with conglomerate. It consists of 1.5 feet of intense alteration varying from pink to buff to black in colour. The rocks are fine grained, layered and silicified. Lake Shore Mines described the rock as "black cherty strata". The zone contains a swarm of irregular quartz veins and is sericitic. 3% to 5% pyrite is present. A small amount of molybdenite was observed with the sericite. Lake Shore reported channel samples of 0.12 oz. per ton over 3.0 feet. Check samples ran 0.1, 0.14 and 0.04 ozs. gold per ton. Sampling by Newfields Minerals in August, 1985 returned trace values.

No. 36 Zone This is a 60 foot wide (true width) vertical quartz stockwork in tuff. It contains 30% - 60% white quartz in a brown,carbonated matrix containing variable coarse pyrite from 1% to 5%. It is sericitic in part and molybdenite/graphite was observed on slips over a 3 - 5 foot section. A steep, south-dipping fracture within the zone shows a recognizable, finely disseminated, pink, cobalt bloom (erythrite) revealing the presence of cobalt arsenides.

Values obtained by Lake Shore and Newfields were low but anomalous (200 PPB, parts per billion, gold over 15 feet (Newfields).

The zone resembles the green carbonate ores of Kerr Addison Mine located 20 miles to the east where 17 million tons grading 0.27 oz. Au/ton have been mined to date. Tihor describes the Kerr Addison carbonate ore as follows:

"Samples of carbonate-ore consist of highly variable proportions of dolomite, magnesite, and quartz, with less than 3% of emerald-green, chromium-bearing muscovite, and perhaps a small amount of ankerite. Pyrite is surprisingly rare, however, this rock usually contains less than 1% of a nickel sulfarsenide, probably gersdorffite."

In the 36 Zone the green chromium-bearing muscovite is absent but the white micaeous mineral sericite is present and cobalt arsenides are present rather than the nickel arsenides.

Lourie & Wilton in a paper on the Kerr Addison deposit state:

"The orebodies within the green carbonate rocks do not appear to exhibit structural localization effects. It is postulated that the original basic volcanics were silicified, re-fractured and quartz injected by auriferous bearing solutions. The grade of these zones is roughly proportionate to the percentage of quartz veins present.

Newfields

The auriferous quartz stringers occur in sets. A flat or gently dipping set of stringers is common as is a set of stringers striking sub-parallel to the green carbonate zone but dipping south across the north dip of the ore. A third set of quartz stringers strikes approximately at right angles to the strike of the carbonate and dips steeply east. All three sets contain erratically distributed free gold. Such a pattern is difficult to explore by drilling in one direction only (e.g., flat holes)."

5 holes from the 3075 foot level tested the zone both east and west of the crosscut. Values of 0.14 oz. gold per ton over 5 feet are reported in one hole.

The relationship of Veins 32, 33, 35 and 36 to intrusives is not evident on the 3075 foot level. The existence at surface of a large mass of mafic syenite with a small component of quartz-feldspar-porphyry, stratigraphically a few hundred feet south of these veins, suggests that such a relationship may exist and that the veining may persist for a considerable distance above the 3075 foot level.

The remaining drilling by Westwind and Newfields was cross-sectional for geological information and hopefully to locate structure. Holes W-4 and N-8, 9, 10 and 11 were to a very large extent within the mafic syenite phase of the Vindicator stock. Hole N-8 encountered quartz veining and fracturing in a narrow porphyry dike with the mafic syenite. No values were encountered but the structure warrants further investigation. Hole N-10 cut a strong quartz vein in debris flow approximately 100 feet north of the mafic syenite contact. No values were encountered but the structure warrants further investigation. Hole N-7 tested a strong structure on the tuff/conglomerate contact which was tested by a rock pit at surface. The hole cut a 4 foot syenite dike with fracturing in the contact area. There was no alteration. It lies within a few hundred feet of the south boundary. No further work is planned for this structure.

Nothing of significance was reported in Holes W-1, 2 and 4.

Prior to development on the 3075 foot level, Lake Shore Mines drilled 3 holes, L.1, L.2 and L.3 from the south boundary of Newfields ground. They collared in tuff but were largely in mafic syenite. No significant values or structures are recorded in the logs.

CONCLUSIONS & RECOMMENDATIONS

All investigators, present or past, stress that gold mineralization on the Kirkland Lake Main Break is structurally controlled and that structures located in or near the intrusive rocks are the preferred site for gold deposition.

CONCLUSIONS AND RECOMMENDATIONS

All holes in this period, with the exceptions of N.86-25, 26 and 27, were designed to test for extensions of the gold zones encountered in January of 1986 in hole N.85-17. Having limited success in extending the zone on strike - there was some success in the east (holes 19's and 20) and un and down dip (holes 17D and E) - a north-trending structure was postulated, paralleling the Lake Shore and No. 1 cross faults and subsequently tested. The holes during this drilling period were unsuccessful in substantiating this idea. Further exploration of this theory was recommended and conducted subsequent to this period of drilling.

Hole N.86-25 was drilled to test un dip from the 3054 drift of Lake Shore which carried anomalous gold for 500' of strike length. No gold was encountered.

Holes N.86-26 and 27 were drilled to test the Lake Shore cross fault for mineralization on a north-trending structure similar to that being postulated for the gold zones of N.85-17's. A half ounce gold assay over 1.1 feet was encountered in hole N.86-26 so further work was recommended and subsequently conducted to further investigate this theory.

The gold zones of N.85-17's and N.86-19's and 20 occur at great depth and are difficult to evaluate from surface drilling. It was recommended the underground exploration be conducted using access from the 2075 crosscut and the 3054 drift from the Lake Shore Mine.

Signed,

L. J. Cunningham, B.Sc., P.Eng.
Mining Engineer

Dated at
Kirkland Lake, Ontario
20th August, 1987

FORM NO. LAKESIDE REPORT PAPER GRANO & TOY

Newfields

RECOMMENDATIONS

PHASE I 1986 - 1st March 1987

Because much of the property has not been tested between surface and the 3,000 foot level, a continuing program of surface drilling of predominantly long holes is recommended while underground rehabilitation is underway.

Costs are estimated as follows:

1.	Surface drilling	$ 1,500,000.00	
2.	Shaft rehabilitation charges	350,000.00	
3.	3075 Level - installation of services	300,000.00	
4.	Supervision - surface & underground	150,000.00	
5.	Office rentals, core shack	12,000.00	
6.	Transportation	12,000.00	
7.	Contingencies	176,000.00	
			$ 2,500,000.00

PHASE II 1 March, 1987 - 1 March 1989

A program of underground development and drilling is recommended at an estimated cost of:

Drifting, crosscutting, raising, cutting drill stations	$ 1,300,000.00	
Drilling	450,000.00	
Engineering, supervision & consulting services	480,000.00	
Office, core shack, rentals & operating costs	24,000.00	
Transportation	48,000.00	
Contingencies	198,000.00	
		$ 2,500,000.00

Total recommended expenditure $ 5,000,000.00

Signed,

Kirkland Lake, Ontario

L. J. Cunningham, B.Sc., P.Eng.
Mining Engineer

PROPOSAL FOR
SURFACE EXPLORATION & UNDERGROUND DEVELOPMENT
ON
KIRKLAND BASIN PROPERTY, NEWFIELDS MINERALS INC.

SURFACE		
Diamond Drilling	75,000 feet of drilling @ $20.00/ft.	1,500,000.00
UNDERGROUND		
(1)	Rehabilitation of 3075 Ft. Level, instal track, air, water & ventilation pipe 3,000' @ $100.00/ft.	300,000.00
(2)	Drifting on 3054 Vein Extend existing east drift 2,000' easterly on vein 2,000' @ $250.00/ft.	500,000.00
	From crosscut drift westerly 1,000' 1,000' @ $250.00/ft.	250,000.00
(3)	Raising on 3054 Vein 500' at selected sites @ $200.00/ft.	100,000.00
(4)	Cutting drilling stations on 3054 Vein 10 stations @ $5,000.00 each	50,000.00
(5)	Crosscut north from 3054 in vicinity of surface drill hole (85-17) to Newfield zone 500' @ $250.00/ft.	125,000.00
(6)	Drifting on Newfield zone 500' on minimum of two veins of the zone 1,000' @ $250.00/ft.	250,000.00
(7)	Raising on Newfield zone at selected sites 300' @ $200.00/ft.	60,000.00
(8)	Quartz stockwork Zone (Conglomerate Zone) drifting east & west of crosscut 500' @ $250.00/ft.	125,000.00
(9)	Raising on quartz stockwork zone 100' @ $200.00/ft.	20,000.00
(10)	Crosscutting: extend 2052 crosscut north to mafic volcanics 200' @ $250.00/ft.	50,000.00
(11)	Drifting east/west from 3052 crosscut on or near sedimentary/volcanic contact 500' @ $250.00/ft.	125,000.00
(12)	Allowance for additional development: Drifting 500' @ $250.00/ft.	125,000.00
	Raising 200' @ $200.00/ft.	40,000.00
(13)	Cutting drill stations 10 @ $5,000.00 each	50,000.00
(14)	Underground diamond drilling 75,000' @ $12.00/ft.	900,000.00
(15)	Service charge to Lac Minerals for air, water, electricity, hoisting, etc. $15,000.00/month for 24 months	360,000.00
(16)	Engineering & geological services 2 geologists, 2 helper-samplers, 1 surveyor, 1 draftsman, 1 secretary $20,000.00/month for 24 months	480,000.00
(17)	Supervision and consulting services 24 months	300,000.00
(18)	Office, core shack, rentals & operations $1,000.00/month for 24 months	24,000.00
(19)	Transportation 2 vehicles 2 x $1,000.00/month for 24 months	48,000.00
(20)	Contingencies 24 months	218,000.00
		$ 6,000,000.00

L.J. Cunningham, B.Sc., P. Eng., 1 McPhee Ave., Kirkland Lake, Ontario P2N 1M1

REFERENCES

Burke, D. K.	1961	Brief Report on Drilling, Westwind Explorations Ltd., Teck Township
Burrows, A. G. & Hopkins, P. E.	1923	Kirkland Lake Gold Area O.D.M. Vol. 32, Part 4, 1923
Charlewood, G. H.	1964	Geology of Deep Developments on the Main Ore Zone at Kirkland Lake O.D.M. Geological Circular No. 11
Colvine, A. C. et al	1984	An Integrated Model for the Origin of Archean Lode Gold Deposits O.G.S. Open File Report 5524
Cunningham, L. J.	1980	Review of the Toburn Mine
	1981	Report on the Sylvanite Mine
Hopkins, Harold	1946	Gold Mines of Kirkland Lake Unpublished report Office of the Resident Geologist, M.N.R., Kirkland Lake
Lowrie, D. A. & Wilton, C.K.	1980	Geology of the Kerr Addison Mine Company Report
Ploeger, F. & Crocket, J.	1982	Relationship of Gold to Syenitic Intrusive Rocks in Kirkland Lake C.I.M.M. Special Volume 24
Savage, W. S.	1964	Mineral Resources & Mining Properties in the Kirkland-Larder Area O.D.M. Mineral Resources Circular No. 3
Seeber, O.A.	1984	A Report for Newfields Minerals Inc. on the Kirkland Basin Property
Thomson, J. E.	1948	Geology of Teck Township and the Kenogami Lake Area O.D.M. Vol. 57, Part 5
Tihor, L. A. and Crocket, J. H.	1977	Gold Distribution in the Kirkland-Larder Area Report of Activities, Part A Geological Survey of Canada Paper 77-1A
	1978	Lithogeochemical Guides to Ore at the Kerr Addison 7th International Symposium, Golden, Colorado
Todd, E. W.	1928	Kirkland Lake Gold Area O.D.M. Vol. 37, Part 2, 1928

L.J. Cunningham, B.Sc., P. Eng., 1 McPhee Ave., Kirkland Lake, Ontario P2N 1M1

REPORT ON DRILLING
NEWFIELDS MINERALS INC.
APRIL - SEPT. 1986

(Summary of Drill Data attached)

CONCLUSIONS AND RECOMMENDATIONS

All holes in this period, with the exceptions of N.86-25, 26 and 27, were designed to test for extensions of the gold zones encountered in January of 1986 in hole N.85-17. Having limited success in extending the zone on strike - there was some success in the east (holes 19's and 20) and up and down dip (holes 17D and E) - a north-trending structure was postulated, paralleling the Lake Shore and No. 1 cross faults and subsequently tested. The holes during this drilling period were unsuccessful in substantiating this idea. Further exploration of this theory was recommended and conducted subsequent to this period of drilling.

Hole N.86-25 was drilled to test up dip from the 3054 drift of Lake Shore which carried anomalous gold for 500' of strike length. No gold was encountered.

Holes N.86-26 and 27 were drilled to test the Lake Shore cross fault for mineralization on a north-trending structure similar to that being postulated for the gold zones of N.85-17's. A half ounce gold assay over 1.1 feet was encountered in hole N.86-26 so further work was recommended and subsequently conducted to further investigate this theory.

The gold zones of N.85-17's and N.86-19's and 20 occur at great depth and are difficult to evaluate from surface drilling. It was recommended the underground exploration be conducted using access from the 2075 crosscut and the 3054 drift from the Lake Shore Mine.

Signed,

L. J. Cunningham, B.Sc., P.Eng.
Mining Engineer

Dated at
Kirkland Lake, Ontario
20th August, 1987

FORM NO. L... REPORT PAPER GRAND & TOY

SUMMARY OF DRILL DATA
April - Sept. 1986

Hole	Date Drilled	Footage	Purpose	Results
N-85-16B	Apr 11-May 4 1986	4098-5322' (1224')	to test basement contact	no anomalous gold
N-85-17D	Apr 12-May 14 1986	2294-4257' (1963')	to test gold zones down dip from N-85-17	3055.5-3062.0': 179 ppb Au/6.5' 3077.0-3080.6': 0.103 opt Au/1.0' 3107.0-3112.0': 749 ppb Au/5.0' 3120.1-3123.8': 0.12 opt Au/3.6' 3194.2-3196.4': 584 ppb Au/2.2' 3198.8-3202.0': 807 ppb Au/3.2' 3232.5-3247.0': 0.018 opt Au/14.5'
N-85-17E	May 21-June 18 1986	1272-3313' (2041')	to test gold zones up dip from N-85-17	3023.1-3024.6': 0.044 opt Au/1.5'
N-85-17F	June 19-July 21 1986	995-3477' (2482')	to test gold zones west on strike from N-85-17	no anomalous gold
N-86-19D	Apr 10-May 22 1986	1872-4298' (2426')	to test gold zones east on strike from N-85-17	3109.8-3110.5': 210 ppb Au/0.7'
N-86-19E	June 15-July 19 1986	1130-3760' (2630')	to test gold zone farther east from N-86-19D	2978.3-2980.0': 0.139 opt Au/1.8' 3060.5-3062.0': 0.044 opt Au/1.6' 3066.6-3071.8': 0.115 opt Au/5.2' 3149.8-3151.7': 0.046 opt Au/1.9' 3221.0-3226.0': 0.02 opt Au/5.0' 3440.0-3450.5': 0.02 opt Au/10.5'
N-86-19F	Aug 4-Aug 21 1986	2870-3844' (974')	wedge cut from N-86-17E	2977.2-2981.5': 0.023 opt Au/4.3' 3078.7-3082.5': 0.16 opt Au/3.8' 3529.1-3536.0': 0.086 opt Au/2.8'
N-86-19G	Aug 21-Oct 4 1986	1482-3986' (2504')	wedge cut from N-86-17E	3086.0-3091.0': 0.05 opt Au/5.0' 3259.2-3260.1': 0.06 opt Au/0.9'

Hole	Date Drilled	Footage	Purpose	Results
N-86-20	May 9-June11 1986	0-3628' (3628')	to test gold zones east from N-86-19's	no anomalous gold
N-86-21	May21-June2 1986	0-920' (920')	to test gold zone up dip from N-85-17's	839.8-843.4': 229 ppb Au/3.6'
N-86-22	May30-June16 1986	0-1695' (1695')	to test the basement contact	no anomalous gold
N-86-23,23A	June18-24 1986	0-286' 0-539' (826')	to test for a north-striking structure from N-85-17's	holes abandoned
N-86-24	June29-Aug1 1986	0-2938' (2938')	to test for north-striking structure from N-85-17's	-no anomolous gold -hole strayed too far to south
N-86-25	July25-Sept2 1986	0-3487' (3487')	to test for gold up dip from Lake Shore's 3054 drift	no anomalous gold
N-86-26	Aug8-Sept12 1986	0-3521' (3521')	to test for gold near the Lake Shore cross fault	569.0-570.1: 0.50 opt Au/1.1'
N-86-27	Sept5-Sept27 1986	0-2773' (2773')	to test the Lake Shore fault zone	no anomalous gold

DRILL LOG

HOLE: N-85-16B
PAGE: 1

NEWFIELDS MINERALS, INC. - KIRKLAND BASIN PROJECT

STRIKE:
DIP:
LOCATION:
DATE DRILLED: Apr 11 - May 4, 1986
LOGGED BY: J Mucklow, T Twomey
DRILLED BY: Heath & Sherwood Drilling
PURPOSE: Wedged around bend in N-85-16A

FOOTAGE		DESCRIPTION
4098 - 4533'	TEMISKAMING SEDIMENTS	
	4098 - 4170'	GREYWACKE - graded bedding with rip-up clasts, local conglomeratic zones, local trace pyrite
	4098 - 4135'	Moderately to strongly sericitic, schistosity well defined; CA = 25 - 50 degrees
	4098 - 4119'	Numerous quartz-feldspar stringers generally concordant with schistosity
	4135 - 4164.7'	Lightly sericitic, local quartz-feldspar veins and stringers
	4170 - 4290'	CONGLOMERATE - local greywacke/grit intercalations
	4220 - 4242'	Gritty
	4242 - 4247'	Matrix supported conglomerate, gravel-sized rounded, clasts stretched clasts; CA = 50 degrees
	4282 - 4290'	As above, lightly hematitic giving a blue-black coloration, magnetic
	4290 - 4533'	GREYWACKE
	4350 - 4360'	fine-grained greywacke (turbidite), graded beds, slightly magnetic
	4380 - 4396'	Slightly magnetic
	4414.4 - 4432.0'	Bleached
	4432 - 4451'	Ground Core (lost)
	4468.5 - 4470.5'	Bleached
	4483 - 4503'	Bleached
	4512.5 - 4515'	Bleached
	4530 - 4533'	Bleached

FOOTAGE		DESCRIPTION
4533 - 5147.8'	BASAL TUFF	
	4533 - 4660'	Dark green-grey , weak to moderate magnetics
	4660 - 4729'	Dark green-grey to purplish, hematitic, weakly magnetic
	4729 - 4736'	Light green-grey to purplish, local bleaching and hematitic zones
	4736 - 4827'	Light green-grey, not magnetic
	4749'	Geologically-orgasmic soft-sediment deformation, younging uphole; bedding CA = 60 degrees
	4816 - 4819'	Coarse, reworked agglomerate?
	4827 - 4870.5'	Patchy bleaching
	4836'	Cross bedding
	4860.5 - 4861'	Sedimentary dikes
	4870.5 - 4882'	Sericitic
	4882'	Cross bedding
	4882 - 4937.5'	Grey-green, well bedded, local gritty beds and diagenetic pyrite
	4937.5 - 5147.8'	VOLCANIC CONGLOMERATE - polymictic but generally all clasts are volcanogenic and matrix is mafic tuffaceous, local diagenetic pyrite
	4950 - 4954'	Ash tuff
	5030.5 - 5033'	Feldspar crystal, lapilli tuff, foliation CA = 45 degrees (bedding parallel)
	5068.5 - 5073.0'	INTERMEDIATE DIKE - grey, porphyritic
	5144'	Excellent bedding; CA = 40 - 45 degrees
5147.8 - 5322	KINOJEVIS VOLCANICS	
	5147.8 - 5148.1'	Altered contact (unconformity?)
	5148.1 - 5198.8'	Crowded feldspar-phyric, coarse volcanics (similar to upper porphyritic volcanics but more massive)

FOOTAGE	DESCRIPTION
	KINOJEVIS VOLCANICS (cont'd)
5198.8 - 5322'	Feldspar crystals are very "crisp" looking; non-magnetic; Pervasive carbonate selectively replacing feldspars from 5169' on Saussuritic, feldspars greenish and indistinct, however rock still coarse-grained and porphyritic; strongly magnetic, pervasive carbonate selectively replaces feldspars; 1 - 2 mm crystals of magnetite (2 - 3%), feldspars 40 - 50%, dark green (amphibole or pyroxenes and accessories) groundmass
5322	END OF HOLE

BORE HOLE DATA

DATE	DEPTH	ACID TEST (degrees)	WEDGE TOP	WEDGE TYPE	AZIMUTH (degrees)	DIP (degrees)	
APR 12	4085'		4095'	steel	352	-63	Start of Hole, above "dogleg"
Apr 17	4195'	-60					
Apr 17	4290'	-56					
Apr 19	4390'	-53					
Apr 22	4487'	-53					
Apr 22	4590'	-50					
Apr 24	4690'	-49					
Apr 26	4790'	-47.5					
May 3	5100'				341	-43	
May 3	4750'				337	-47	
May 3	4400'				337	-53	
May 3	5322'						End of Hole

SIGNED:

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-85-16
PAGE: 1

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH (ft)	Au PPB
017 - 109.2'	K alteration (hematitic?)	C99617	2.5	nil
109.5 - 112'	As above	99618	2.5	nil
112 - 115'	As above	99619	3.0	nil
115 - 118'	As above	99620	3.0	nil
118 - 119.2'	Sericitic, numerous quartz stringers	99621	1.2	nil
119.2 - 120'	Sericitic, numerous quartz stringers, mafic syenite	99622	0.8	nil
120 - 122.8'	As above	99623	2.8	nil
122.8 - 126'	As above	99624	3.2	nil
126 - 128'	Sericitic, silicic, feldspar porphyry	99625	2.0	nil
128.0 - 130.3'	As above	99626	2.5	nil
130.5 - 133'	As above	99627	2.5	nil
133 - 135.5'	As above	99628	2.5	nil
135.5 - 138'	As above	99629	2.5	nil
138 - 140.5'	Light to no alteration, feldspar porphyry	99630	2.5	nil
140.5 - 143'	As above	99631	2.5	nil
143 - 145.5'	Numerous felsic ribs, pyrite on slip faces, mafic syenite	99632	2.5	nil
145.5 - 148'	As above	99633	2.5	nil
148 - 150.5'	As above	99634	2.5	20
150.5 - 153'	As above	99635	2.5	nil
153 - 155.5'	As above	99636	2.5	nil
155.5 - 158'	As above	99637	2.5	nil
158 - 160.5'	Local K alteration, mafic syenite	99638	2.5	nil
160.5 - 163'	As above	99639	2.5	nil
163 - 165.5'	As above	99640	2.5	nil
165.5 - 168'	As above	99641	2.5	nil
288 - 291'	Local veinlets, pervasive carbonate, mafic syenite	99642	3.0	nil
291 - 293.5'	As above	99643	2.5	nil
297 - 299.5'	As above	99644	2.5	nil
299.5 - 302'	As above	99645	2.5	nil
302 - 305'	As above	99646	3.0	nil
305 - 308'	As above	99647	3.0	nil
308 - 310.5'	As above	99648	2.5	nil
310.5 - 312.4'	As above	99649	2.2	10

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-85-16
PAGE: 2

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH (ft)	Au PPB
313.2 - 314.5'	As above	99650	1.3	nil
316 - 318'	As above	99651	2.0	10
628.5 - 630.5'	Pervasive carbonate, local stringers, mafic syenite	99652	2.0	nil
630.5 - 633'	As above	99653	2.5	nil
633 - 635.5'	As above	99654	2.5	nil
635.5 - 638'	As above	99655	2.5	nil
638 - 640'	As above	99656	2.0	10
640 - 642.5'	Pervasive carbonate, local stringers, mafic syenite	99657	2.5	nil
462.5 - 645.5'	As above	99658	3.0	nil
645 - 648'	As above	99659	2.5	nil
648 - 651'	As above	99660	3.0	nil
651 - 653.5'	As above	99661	2.5	nil
653.5 - 656'	As above	99662	2.5	10
656 - 658'	Pervasive carbonate, local stringers, mafic syenite	99663	2.0	10
224.2 - 224.9'	Albite zone, mafic syenite	H11414	0.7	3
237.5 - 233.1'	Quartz-feldspar vein, (2") mafic syenite	11415	0.6	2
239 - 241.7'	K alteration, highly altered, mafic syenite	11416	2.7	3
241.7 - 242.8'	As above	11417	1.1	2
257.6 - 258.3'	Quartz-feldspar vein, mafic syenite	11418	0.7	3
269.5 - 272.5'	Felsic rib, mafic syenite	11419	3.0	2
293.5 - 297'	Felsic ribs, quartz veins	11420	3.5	3
312.7 - 313.2'	Fractured, quartz-feldspar veins, red alteration, mafic syenite	11421	0.5	2
314.5 - 316'	As above	11422	1.5	3
332.6 - 333.5'	As above	11423	0.9	2
340.9 - 341.4'	As above	11424	0.5	11
345.5 - 346'	As above	11425	0.5	2
347.5 - 348.5'	As above	11426	1.0	3
349.2 - 351.3'	Quartz-carbonate veins, 1% pyrite, mafic syenite	11427	2.1	6
364.4 - 364.8'	Contact with mafic dike, mafic syenite	11428	0.4	6

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-85-16
PAGE: 3

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH (ft)	Au PPB
391.5 - 392.4'	Quartz-carbonate vein and alteration, mafic syenite	11429	0.9	4
404.2 - 405.2'	As above	11430	1.0	4
406.5 - 411.5'	Numerous quartz-feldspar carbonate veins, altered mafic syenite	11431	5.0	4
411.5 - 416.5'	As above	11432	5.0	4
416.5 - 420.2'	As above	11433	3.7	8
420.2 - 421.7'	As above	11434	1.5	4
421.7 - 423.1'	As above	11435	1.4	4
428.1 - 427.2'	Numerous quartz-feldspar carbonate veins, altered mafic syenite	11436	4.1	3
427.2 - 432.3'	As above	11437	4.9	3
432.3 - 436.9'	As above	11438	4.6	3
436.9 - 440'	As above	11439	3.1	4
440 - 443.5'	As above	11440	3.5	3
443.5 - 445'	Contact zone with feldspar porphyry dike, mafic syenite	11441	1.5	4
489.4 - 490.2'	As above	11442	0.8	4
493.3 - 495.5'	Altered quartz vein, mafic syenite	11443	2.2	3
510.2 - 510.9'	Altered, fine veinlets, mafic syenite	11444	0.7	6
511.7 - 512.2'	As above	11445	0.5	73
518.7 - 519.9'	As above	11446	1.2	3
536.4 - 536.9'	As above	11447	0.5	6
538.8 - 539.2'	As above	11448	0.4	4
543.6 - 544'	As above	11449	0.4	4
561.5 - 562.6'	Altered mafic syenite	11450	1.1	3
562.6 - 565.4'	Red alteration, quartz-carbonate, mafic syenite	11453	2.8	4
565.4 - 568.8'	As above	11454	3.4	11
570.7 - 571.6'	Brecciated, carbonate, mafic syenite	11455	0.9	6
576.3 - 578.9'	Altered mafic syenite	11456	2.6	4
578.9 - 580.8'	Hematitic, mafic syenite	11457	1.9	3
586.5 - 588'	As above	11458	1.5	6
595.1 - 597.6'	Red alteration, mafic syenite	11459	2.5	4
603 - 604.5'		11460	1.5	4
609.8 - 610.6'	Brecciated, quartz-	11461	0.8	4

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-85-16
PAGE: 4

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH (ft)	Au PPB
	carbonate-feldspar, hematite, mafic syenite			
623.8 - 624.5'	Red alteration, mafic syenite	11462	0.7	3
666.6 - 671'	Red alteration and hematite, mafic syenite	H11463	4.4	4
671 - 675.6'	As above	11464	4.6	3
761.6 - 762.5'	Red, (hematite) alteration mafic syenite	11465	0.9	4
756.6 - 768.3'	As above	11466	2.7	6
773.7 - 775.4'	As above	11467	1.7	10
778.9 - 781.1'	As above	11468	2.2	8
781.1 - 785.3'	As above	11469	4.2	6
787 - 788.7'	As above	11470	1.7	6
827.1 - 831.3'	Red to green alteration, mafic syenite	11471	4.2	4
844.2 - 844.6'	As above	11472	0.4	6
848.8 - 849.6'	As above	11473	0.8	7
849.6 - 854.8'	As above	11474	5.2	66
856.8 - 861.5'	Red to green alteration, chlorite, mafic syenite	E3901	4.7	17
864 - 865.6'	As above	3902	1.6	4
866.1 - 867.4'	As above	3903	1.3	26
868.4 - 869.1'	Red to green alteration, trace of pyrite, mafic syenite	3904	0.7	6
983.5 - 984'	Narrow shear with quartz, mafic syenite	3905	0.5	3
1000.1 - 1001.4'	As above	3906	1.3	7
1012.3 - 1062.7'	Several feldspar veinlets, mafic syenite	3907	0.4	12
1064.4 - 1064.9'	As above	3908	0.5	6
1068.5 - 1068.9'	As above	3909	0.4	7
1079.7 - 1080.6'	Quartz-feldspar vein, carbonate, mafic syenite	3910	0.9	6
1091.1 - 1091.4'	As above	3911	0.3	8
1139.3 - 1140.1'	Carbonate alteration, mafic syenite	3912	0.8	4
1140.1 - 1140.7'	Quartz-feldspar vein, mafic syenite	3913	0.6	6
1146.6 - 1148.3'	As above	3914	1.7	4
1198.3 - 1198.8'	1/2" quartz vein, mafic syenite	3915	0.5	2

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-85-16
PAGE: 5

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH (ft)	Au PPB
1205.3 - 1205.8'	1-1/2" quartz-carbonate vein, mafic syenite	3916	0.5	3
1209.5 - 1209.8'	As above	3917	0.3	3
1214.9 - 1215.6'	As above	3918	0.7	2
1216.5 - 1216.8'	As above	3919	0.3	3
1217.5 - 1217.8'	As above	3920	0.3	2
1219.9 - 1220.3'	As above	3921	0.4	2
1220.3 - 1221.5'	As above	3922	1.2	4
1222 - 1222.3'	Quartz vein, mafic syenite	3923	0.3	107
1230 - 1230.3'	As above	3924	0.3	6
1231.7 - 1232.9'	4" quartz vein, mafic syenite	3925	1.2	4
1237.9 - 1238.5'	Quartz-carbonate pod, mafic syenite	3926	0.6	4
1238.7 - 1239.1'		3927	0.4	14
1242.5 - 1243'	Quartz-carbonate vein, mafic syenite	3928	0.5	3
1287.9 - 1288.1'	Quartz veinlet, mafic syenite	3929	0.2	4
1294.5 - 1295.9'	Deformed to sheared, chlorite-carbonate, less than 1% pyrite, mafic syenite	3930	1.4	4
1296.3 - 1297.2'	As above	3931	0.9	6
1377.5 - 1378'	Mafic dike, quartz-carbonate vein, mafic syenite	3932	0.5	6
1453 - 1454'	Quartz vein (3") chlorite, mafic syenite	3933	0.9	4
1518.0 - 1519.8'	2" quartz veins in shears, chlorite, carbonate, sericitic, mafic syenite	3934	0.9	8
1614.9 - 1615.4'	Narrow shear with quartz-feldspar, mafic syenite	3935	0.5	7
1615.7 - 1616.7'	Quartz-feldspar, sericitic in narrow shear, mafic syenite	E3936	1.0	6
1630 - 1630.4'	Quartz-feldspar in narrow shear, mafic syenite	3937	0.4	14
1639 - 1639.9'	Altered narrow shears, mafic syenite	3938	0.9	6
1649.9 - 1650.4'	Narrow shear with less than 1% pyrite, mafic	3939	0.5	8

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-85-16
PAGE: 6

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH (ft)	Au PPB
	syenite			
1762.9 - 1765.5'	Narrow shear, sericite alteration, mafic syenite	3940	2.6	17
1818 - 1818.2'	1" carbonate vein, mafic syenite	3941	0.2	7
1831.4 - 1831.9'	2" carbonate vein, mafic syenite	3942	0.5	3
1919 - 1919.9'	Shear, chlorite and carbonate, mafic syenite	3943	0.9	6
1922.6 - 1923.2'	Pink alteration, carbonate and chlorite, mafic syenite	3944	0.6	26
1977 - 1977.5'	Shearing, quartz-calcite, mafic syenite	3945	0.5	nil
2003.5 - 2004'	Shear, quartz-carbonate, sericite, mafic syenite	3946	0.5	nil
2005.4 - 2005.9'	As above	3947	0.5	nil
2011.3 - 2011.9'	Quartz-calcite veins, mafic syenite	3948	0.6	nil
2115.7 - 2116'	1" quartz-feldspar vein in shear, mafic syenite	N5001	0.3	nil
2156 - 2156.5'	1" quartz-feldspar, carbonate vein, mafic syenite	5002	0.5	nil
2188 - 2188.4'	Small quartz-feldspar veinlets/stockwork, mafic syenite	5003	0.4	nil
68 - 70.5	Grit trace to 1% pyrite (disseminated)	5004	2.5	nil
70.5 - 73'	As above	5005	2.5	nil
73 - 75.5'	As above	5006	2.5	nil
75.5 - 78'	As above	5007	2.5	nil
78 - 80.5'	As above	5008	2.5	nil
80.5 - 83'	As above	5009	2.5	nil
83 - 85.5'	As above	5010	2.5	nil
85.5 - 90.5'	Grit trace to 1% pyrite (disseminated)	5011	5.0	nil
90.5 - 95.5'	As above	5012	5.0	nil
95.5 - 98'	As above	5013	2.5	nil
98 - 101.3'	Mafic syenite, K alteration (hematitic)	5014	3.3	10
101.3 - 104.6'	As above	5015	3.3	nil
104.6 - 107'	As above	5016	2.4	nil
2273.3 - 2273.8'	Calcite and chlorite and	5017	0.5	nil

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-85-16
PAGE: 7

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH (ft)	Au PPB
	altered mafic syenite			
2359.8 - 2360.3'	Shear, chlorite and carbonate, mafic syenite	5018	0.5	nil
2370.6 - 2381.3'	Large felsic rib, mafic syenite	5019	0.7	nil
2397.5 - 2398.5'	Large felsic rib, numerous carbonate-filled fractures, mafic syenite	5020	1.0	nil
2400.6 - 2401'	Quartz, carbonate-filled shear, mafic syenite	5021	0.4	nil
2426 - 2426.3'	Shear, carbonate and chlorite	5022	0.3	nil
2436.5 - 2436.9'	Felsic rib, carbonate veinlet parallel within mafic syenite	5023	0.4	nil
2453.9 - 2456.2'	Carbonate and deformed, mafic syenite	5024	2.3	nil
2456.2 - 2458'	As above	5025	1.8	nil
2458 - 2459.9'	Carbonate and deformed, mafic syenite, lower contact with QPF	5026	1.9	nil
2459.9 - 2460.2'	Quartz veining at contact, QPF	5027	0.3	nil
2460.2 - 2462'	Carbonate fractures, QPF	5028	0.8	nil
2488 - 2488.5'	Bleached and quartz, QPF	5029	0.5	nil
2536.2 - 2538'	Increasingly sericitic, QPF	5030	1.8	nil
2538 - 2540'	Strongly sericitic, local fuchsite, quartz veins, QPF	5031	2.0	10
2552.3 - 2552.9'	As above	5032	0.6	nil
2555.8 - 2556.6'	Strongly sericitic, local fuchsite, quartz veins, galena, QPF	5033	0.8	nil
2564.8 - 2565.8'	As above	5034	1.0	nil
2592.4 - 2594'	Strongly sericitic, local fuchsite, quartz veins	N5035	1.6	nil
2598.3 - 2598.8'	Sericitic quartz-feldspar, minor green mica, quartz veins	5036	0.5	nil
2612.5 - 2613.0'	Sericitic quartz-feldspar, with minor green mica, irregular quartz veins, 2-inch with less than 1% fine galena	5037	0.5	nil

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-85-16
PAGE: 8

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH (ft)	Au PPB
2623.8 - 2624.6'	As above	5038	0.8	10
2628 - 2630.2'	Sericitic quartz-feldspar with minor green mica, irregular quartz veins	5039	1.2	nil
2632.2 - 2633.7'	As above	5040	1.5	nil
2690.8 - 2613'	Sericitic quartz-feldspar with minor green mica, quartz fractures, less than 1% galena	5041	3.2	nil
2649.7 - 2650.7'	Irregular quartz veins, less than 1% galena, in altered quartz-feldspar	5042	1.0	nil
2661.0 - 2661.7'	As above	5043	0.7	nil
2673.8 - 2674.3'	As above	5044	0.5	nil
2675.7 - 2676.8'	As above	5045	1.1	10
2690.5 - 2691.0'	As above	5046	0.5	nil
2704.4 - 2705.3'	Quartz vein in altered quartz-feldspar, abundant green mica	5047	0.9	nil
2708.0 - 2708.4'	Quartz vein, speck of galena	5048	0.4	nil
2711.0 - 2712.6'	Irregular quartz veins with less than 1% galena in altered quartz-feldspar	5049	1.6	nil
2720.6 - 2722.2'	Quartz fractures at 60 degrees with less than 1% galena in altered quartz-feldspar	5050	1.6	nil
2728.8 - 2730.0'	Irregular quartz veins with less than 1% galena in altered quartz-feldspar	5051	1.2	nil
2743.6 - 2745.1'	As above	5052	1.5	nil
2745.8 - 2746.9'	As above	5053	1.1	nil
2748.7 - 2749.5'	As above	5054	0.9	nil
2755.9 - 2756.5'	Irregular quartz veins, pyrite and galena less than 1% moly on fracture	5055	0.6	nil
2765.2 - 2768.0'	Irregular quartz veins, less than 1% galena in altered quartz-feldspar	5056	2.8	nil
2768.5 - 2770.8'	As above	5057	2.3	nil
2773.5 - 2775.3'	As above	5058	1.8	nil
2814 - 2814.5'	Quartz vein with red	5059	0.5	

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-85-16
PAGE: 9

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH (ft)	Au PPB
	fractures in altered quartz-feldspar			
2824.3 - 2825.3'	Irregular quartz veins with less than 1% galena in altered quartz-feldspar	5060	1.0	nil
2839.4 - 2840.1'	As above	5061	0.7	nil
2848 - 2848.9'	As above	5062	0.9	10
2862.4 - 2863.4'	As above	5063	1.0	nil
2871.9 - 2873.0'	As above	5064	1.1	10
2875.5 - 2877.0'	Quartz veins with red alteration	5065	1.5	nil
2878.7 - 2879.2'	Quartz vein at 30 degrees with less than 1% galena in altered quartz-feldspar	5066	0.5	nil
2891.0 - 2892.7'	As above	5067	1.7	nil
2900.5 - 2901.8'	Quartz fracture in quartz-feldspar	5068	1.3	nil
2956.8 - 2958.0'	Minor quartz fractures, odd pyrite cube in quartz-feldspar	5069	1.2	nil
2960.2 - 2961.2'	Minor quartz fractures, speck of galena in quartz-feldspar	5070	1.0	nil
2962.7 - 2963.0'	Quartz vein, 2", in quartz-feldspar; CA = 80 degrees	5071	0.3	nil
2963.9 - 2965.0'	Minor quartz fractures in quartz-feldspar	5072	1.3	nil
2970.4 - 2971.0'	As above	5073	1.0	nil
2990.4 - 2991.0'	Green fractured quartz-feldspar with quartz stringer	5074	0.6	nil
3002 - 3005'	Fractured quartz-feldspar, parallel to core with quartz stringers	5075	3.0	nil
3005 - 3007.5'	As above	5076	2.5	nil
5100 - 5105.0'	Basal Grit, 1% coarse pyrite (no anomalous sludge here)	1893	5.0	15

DRILL LOG

HOLE: N-85-17D
PAGE: 1

NEWFIELDS MINERALS, INC. - KIRKLAND BASIN PROJECT

STRIKE: LOCATION:
DIP: DATE DRILLED: Apr 12 - May 14, 1986
LOGGED BY: T Twomey, J Mucklow
DRILLED BY: Heath & Sherwood Drilling
PURPOSE: To intersect gold zone 300 below 17 parent

FOOTAGE		DESCRIPTION
		Top of Wedge 2276'
2294 - 2740.5'		TEMISKAMING SEDIMENTS - CONGLOMERATE
	2325 - 2350'	Few clasts, mostly medium to fine-grained greywacke
	2387 - 2392'	No core, reamed for wedge
	2463 - 2468'	No core, reamed for wedge
	2476 - 2487'	Minor bleaching (sericitic), clasts elongated at 20 degrees
	2453'	Steel wedge - some core repeated
	2504'	Steel wedge - some core repeated
	2536 - 2660'	Sericitic with minor quartz veining and minor green mica
	2554.2 - 2560.1	Abundant quartz veinlets
	2588 - 2593'	Wedge - reamed, no core
	2683'	Wedged (steel)
	2738.5 - 2740.5'	Gradational contact with mafic tuff
2740.5 - 4257'		KINOJEVIS VOLCANICS
	2740.5 - 3019.4'	Commonly feldspar-phyric, locally containing lapilli and less commonly bombs, numerous carbonate veinlets
	2843.8 - 2844.5'	Quartz vein; CA = 35 degrees
	2900 - 2998'	Abundant calcite veining and pervasive carbonate
	2998 - 3019.4'	Silicic with quartz veining
	3019.4 - 3120.1'	INTERMEDIATE DIKE(S) - grey, multiphase, numerous quartz stringers with less than 1% pyrite

FOOTAGE	DESCRIPTION
	KINOJEVIS VOLCANICS (cont'd)
3055.5 - 3062'	Up to 1% moly and 2% pyrite in quartz veining, 179 ppb Au and 50 ppm Mo over 6.5'
3072 - 3120.1'	Brown altered intermediate dike
3077.0 - 3080.6'	2 in. wide quartz-moly stringer with 2% disseminated pyrite at 5 degrees to CA, 0.103 oz/ton Au and 786 ppm Mo over 1.0'
3105 - 3106'	Fine-grained grey dike within fine-grained brown-altered dike(?), CA = 10 degrees
3107.0 - 3112.0'	1" wide quartz-moly veinlet parallel to CA, 749 oz/ton Au, and 102 ppm Mo over 5.0'
3116'	Possible moly. fracture at CA = 5 degrees
3120.1 - 3468'	BROWN ALTERED ZONE (BAZ)
3120.1 - 3123.8'	Upper Gold Zone? quartz-moly stringers with 3% pyrite at 5 degrees to CA, (ie. zone is less than 1 foot in width) at contact with dike and BAZ, 0.12 oz/ton Au, 500 ppm Mo over 3.6'
3132.8 - 3137.2'	GREEN DIKE - contacts at 45 and 20 degrees to CA
3148.2 - 3152.0'	GREY DIKE - brown altered, fine grained with numerous quartz stringers, over 1% pyrite CA = 15 and 45 degrees on contacts
3155.0 - 3157.3'	DIKE - fine-grained, brown altered; CA = 15 and 45 degrees on contacts
3184.0 - 3187.0'	DIKE - fine-grained, brown altered
3194.2 - 3196.4'	Moly slips with 1% disseminated pyrite, 584 ppb Au, 76 ppm Mo over 2.2'
3198.8 - 3202'	Quartz veining with localized 1% fine pyrite associated with moly fractures; 807 ppb Au, 366 ppm Mo over 3.2'

FOOTAGE	DESCRIPTION
	KINOJEVIS VOLCANICS (cont'd)
3217 - 3223'	Reamed out for wedge
3232.5 - 3247'	Numerous white quartz-feldspar veins with 7% pyrite associated with margins; locally moly; 0.018 oz/ton Au, 90 ppm Mo over 14.5'
3350 - 3402'	SILICEOUS BAZ - numerous quartz-feldspar veins, very pale to buff coloured
3356 - 3375.9'	BAZ brecciated and flooded with quartz, local crystals of pyrite commonly associated with moly fractures in quartz
3378.5 - 3380.5'	Quartz stringers with locally 5% pyrite; 113 ppb Au over 2.0'
3401.6'	2" quartz vein with 2% pyrite; 222 ppb Au, 74 ppm Mo over 0.9'
3433.8 - 3435.3'	Quartz veining, 1% pyrite (coarse) trace moly; 0.038 oz/ton Au, 262 ppm Mo over 1.5'
3437.9'	2" quartz vein, 1% pyrite, trace moly; 0.012 oz/ton Au, 52 ppm Mo over 1.4'
3468'	Grades out of brown alteration
3468 - 3592'	DARK GREEN MAFIC with same texture as BAZ, hematite as discreet crystals (altered magnetite)
3512 - 3523'	Narrow BAZ, gradational contacts
3513.3 - 3514.3'	2" wide quartz vein with 1% pyrite and moly, CA = 20 degrees 80 ppb Au, 722 ppm Mo over 1.7'
3554.7 - 3555.9'	Cemented fault gouge - hematitic; CA = 15 - 20 degrees
3592 - 3641'	BROWN ALTERD ZONE (BAZ)
3602 - 3612'	Dark green coloured
3629 - 3630'	Quartz and wallrock breccia (fault); CA = 45 degrees
3641 - 3760.9'	DARK GREEN MAFIC - magnetite unaltered (highly magnetic), carbonated
3656.5 - 3663.4'	GREY DIKE - contacts at 40 degrees, medium grained with chilled margins

FOOTAGE	DESCRIPTION
	KINOJEVIS VOLCANICS (cont'd)
3663.4 - 3665.9'	Lower Gold Zone (?), silicified with 3 - 5% disseminated pyrite and trace moly; 0.121 oz/ton Au over 2.5'
3674'	Grey Dike - 1/2" wide, irregular
3699.4 - 3700.1'	GREY DIKE - fine-grained, contacts at 43 degrees
3704.0 - 3715.7'	INTERMEDIATE DIKE (or tuff? - contains granite clast or xenolith) grey, with a reddish-grey dike intruded into it from 3707.8 to 3711.2'
3715.6 - 3717'	1% disseminated pyrite, trace moly
3749.0 - 3750.3'	GREY DIKE - contacts at 40 degrees
3755.6 - 3760.0'	GREY DIKE (or tuff? - contains a granite clast or xenolith), minor quartz veinlets
3760.9 - 3781.0'	BROWN ALTERED ZONE (BAZ)
3763'	Quartz-feldspar veinlet with moly-py halo
3781.0 - 3783.4'	INTERMEDIATE DIKE - greyish-pink
3783.4 - 3859'	DARK GREEN MAFICS - same texture as above, highly magnetic
3806.6 - 3808.7'	1% pyrite, trace moly with minor quartz stringers
3834.7 - 3840.3'	GREY DIKE - contacts at approximately 30 degrees, fine-grained
3859 - 3897'	BAZ - with minor quartz veinlets, gradational contact at approximately 3859', less deformed or foliated than the main brown altered zone above as well as less sulphide rich
3897 - 3958'	DARK GREEN MAFICS - less deformed
3926.3 - 3927.2'	Bleached mafics, 50% quartz veining
3929.7 - 3930.5'	Bleached mafics, quartz fracture
3940.1 - 3941.3'	1" wide calcite, with 5% pyrite
3958 - 3985'	BAZ - less deformed than Upper Zones, gradational upper contact

FOOTAGE	DESCRIPTION
	KINOJEVIS VOLCANICS (cont'd)
3985 - 4064'	DARK GREEN MAFICS (Gabbro?) - medium-grained, massive and magnetic, deformed zones more discreet
4000.8 - 4005'	GREY DIKE - contacts at 45 degrees
4064 - 4081'	BAZ - as above zone
4064 - 4067'	Silicified
4076.7 - 4078'	Grey Dike - upper contact at 45 degrees
4081'	Grades into dark green mafic volcanics
4081 - 4257'	DARK GREEN MAFICS
4095 - 4103'	MAFIC DIKE - black, fine grained, magnetic, upper contact at 15 degrees, lower contact at 05 degrees
4103 - 4117'	Spotty, porphyritic texture of white feldspars in medium-grained mafics (gabbro?)
4130.1 - 4132'	MAFIC DIKE - fine-grained, contact at 75 degrees to CA
4152 - 4257'	Grades to a coarse-grained mesocratic gabbro - dark green and white, with 1% disseminated magnetite
4242.5'	Intrusive contact
4257'	END OF HOLE

FOOTAGE DESCRIPTION

BORE HOLE DATA

DATE	DEPTH	ACID TEST	WEDGE TOP	WEDGE TYPE	AZIMUTH (degrees)	DIP (degrees)	PURPOSE Intersect gold zone at depth
Apr 12	2275'		2275'	Steel	002	-77.75	Start 17D from parent hole
Apr 12	2317'						Erroneous due to magnetics
Apr 13	2367'				003	-77.25	Good
Apr 14	2384'		2384'	Retriev.			Steepen hole
Apr 14	2387'					-78.25	
Apr 15	2439'				357	-77.5	
Apr 15	2463'		2453'	Steel			Steepen hole
Apr 18	2500'		2504'	Steel		-78.3	AXE TEST
Apr 20	2537'					-78.75	
Apr 20	2550'		2550'	Retriev.		-79.0	Right azimuth, 25 degrees STP
Apr 22	2648'				351	-76.5	
Apr 23	2683'			Steel			Right azimuth steel wedge
Apr 26	2804'				347	-76.0	
Apr 27	2927'				343	-75.0	
Apr 28	3007'				343	-75.0	
Apr 29	3124'				337	-74.0	
Apr 30	3208'				333	-72.25	
Apr 30	3217'		3201	Retriev.		-73.5	Steepening and 10 degree RAZ wedge
May 2	3261'				328	-70.0	
May 7	3697'				315	-73.5	
May 8	3780'				321	-62.0	Magnetic!
May 12	4050'					-58.0	Magnetic
May 14	4247'					-56.0	Magnetic
May 14	4076'				322	-58.0	
May 15	3870'				322	-61.0	
May 15	3435'				322	-68.0	
May 14	4257'						EOH

SIGNED:

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-85-17D
PAGE: 1

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au (ppb)	Mo (ppm)
2554.2 - 2557'	Abundant quartz veinlets, in conglomerate	6466	2.8	19	2
2557 - 2560.1'	As above	6467	3.1	11	6
3000.3 - 3004.5'	Silicified mafic volcanics, with variable quartz veinlets	6468	4.2	7	2
3004.5 - 3009.2'	As above	6469	4.7	7	2
3009.2 - 3014.4'	As above	6470	5.2	6	2
3014.4 - 3019.4'	As above	6471	5.0	11	2
3019.4 - 3022.4'	Grey dike, minor quartz stringers, less than 1% pyrite	6472	3.0	14	nil
3022.4 - 3027'	As above	6473	4.6	4	nil
3027 - 3032'	As above	6474	5.0	12	2
3032 - 3037'	Grey dike, abundant quartz veining, 1% pyrite	6475	5.0	27	4
3037 - 3042'	Grey dike, minor quartz stringers	6476	5.0	32	2
3042 - 3046.2'	As above	6477	4.2	8	2
3046.2 - 3018'	Brecciated quartz vein, CA = 20 degrees, pyrite in fractures	6478	1.8	84	4
3048 - 3052.7'	Grey dike, numerous quartz stringers	6479	4.7	21	nil
3052.7 - 3055.5'	As above	6480	2.8	18	2
3055.5 - 3057'	White quartz vein, less than 1% pyrite, trace moly	6481	1.5	180	56
3057 - 3062'	Grey dike, minor quartz stringers, 1% moly	6482	5.0	169	48
3062 - 3067'	As above	6483	5.0	10	2
3067 - 3072'	As above	6484	5.0	6	2
3072 - 3077'	Brown altered(?) grey dike	6485	5.0	7	4
3077 - 3078.5'	Gold Zone?, quartz stringer plus pyrite plus moly, 2" wide, CA = 5 degrees	6486	1.5	506	190
3078.5 - 3079.5'	As above, contains the most of the 2" wide zone	6487	1.0	0.103opt	786
3079.5 - 3080.6'	As above, lots of dike(?) wallrock	6488	1.1	0.053opt	448
3080.6 - 3087'	Brown altered(?) grey dike,	6489	6.4	82	22
3087 - 3092'	As above, less than 1% pyrite	6490	5.0	64	12
3092 - 3097'	As above, less than 1%	6491	5.0	52	6

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-85-17D
PAGE: 2

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au (ppb)	Mo (ppm)
	pyrite				
3097 - 3102'	As above	6492	5.0	19	2
3102 - 3107'	As above	6493	5.0	8	2
3107 - 3112'	As above, 1" wide quartz-moly veinlet, parallel to CA	6494	5.0	749	102
3112 - 3117'	As above, possible moly fracture with 2% pyrite	6495	5.0	147	14
3117 - 3120.1'	Brick red fine-grained dike, with quartz stringer parallel to CA	6496	3.1	151	38
3120.1 - 3122'	Gold zone? quartz-moly stringers at 0.5 degrees to CA	6497	1.9	0.162opt	344
3122 - 3123.7'	Gold zone (cont'd)	6498	1.7	0.070opt	730
3123.7 - 3127'	Brown altered zone - brick red	6499	3.3	17	166
3127 - 3132.5'	As above	6500	5.5	8	2
3132.5 - 3137'	Green dike	6501	4.5	10	2
3137 - 3142.5'	Brown altered zone	6502	5.5	7	2
3142.5 - 3148.2'	As above	6503	5/8	8	nil
3148.2 - 3152'	Brown-altered grey dike, numerous quartz stringers	6504	3.8	25	nil
3152 - 3157.3'	BAZ plus 2' altered grey dike	6505	5.3	17	2
3157.3 - 3162'	BAZ	6506	4.7	3	2
3162 - 3167'	BAZ	6507	5.0	11	2
3167 - 3172'	BAZ	6508	5.0	15	2
3172 - 3177'	BAZ	6509	5.0	12	2
3177 - 3182'	BAZ	6510	5.0	6	2
3182 - 3187'	Mostly fine-grained brown-altered dike	6511	5.0	11	2
3187 - 3192'	BAZ	6512	5.0	4	2
3192 - 3194.2'	BAZ	6513	2.2	84	16
3194.2 - 3196.4'	BAZ, 1% disseminated pyrite associated with moly slips	6514	2.2	584	76
3196.4 - 3198.8'	BAZ	6515	2.4	54	6
3198.8 - 3202'	BAZ, pyritic quartz veining with moly	6516	3.2	807	366
3202 - 3207'	BAZ, 2' of quartz-feldspar veining with pyritic margins	6517	5.0	34	16
3207 - 3212'	BAZ	6518	5.0	7	4
3212 - 3217'	BAZ	6519	5.0	4	2

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-85-17D
PAGE: 3

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au (ppb)	Mo (ppm)
3223 - 3228'	BAZ	6520	5.0	7	2
3228 - 3232.5'	BAZ	6521	4.5	11	nil
3232.5 - 3237'	BAZ - abundant white quartz veins, 1% pyrite, moly	6522	4.5	0.016	114
3237 - 3242'	As above, trace moly, 1% pyrite	6523	5.0	0.018opt	84
3242 - 3247'	As above, trace moly, associated with less than 1% pyrite	6524	5.0	0.020opt	76
3247 - 3252'	As above	6525	5.0	36	2
3252 - 3257'	As above	6526	5.0	17	nil
3257 - 3262'	As above	6527	5.0	23	2
3262 - 3267'	As above	6528	5.0	343	nil
3267 - 3272'	As above	6529	5.0	121	nil
3272 - 3277'	Brown-altered zone	6530	5.0	85	nil
3277 - 3282'	As above	6531	5.0	19	nil
3282 - 3287'	As above	6532	5.0	4	2
3287 - 3292'	As above	6533	5.0	8	2
3292 - 3297'	As above	6534	5.0	6	nil
3297 - 3302'	As above	6535	5.0	7	2
3302 - 3307'	As above, trace moly	6536	5.0	135	58
3307 - 3312'	Brown-altered zone, numerous quartz veinlets	6537	5.0	14	4
3312 - 3317'	As above, less than 1% pyrite	6538	5.0	7	2
3317 - 3322'	BAZ	6539	5.0	6	2
3322 - 3327'	BAZ	6540	5.0	8	2
3327 - 3332'	BAZ	6541	5.0	3	4
3332 - 3337'	BAZ	6542	5.0	29	18
3337 - 3342'	BAZ	6543	5.0	4	2
3342 - 3347'	BAZ	6544	5.0	6	nil
3347 - 3352'	BAZ	6545	5.0	6	2
3352 - 3356'	BAZ	6546	4.0	4	2
3356 - 3359.2'	BAZ, highly siliceous, trace pyrite	6547	3.2	4	2
3359.2 - 3361.9'	BAZ, as above	6548	2.7	7	2
3361.9 - 3364.3'	BAZ, as above, trace moly	6549	3.4	8	4
3364.3 - 3367.9'	BAZ, as above	6550	3.6	8	2
3367.9 - 3370.9'	BAZ, fractured and siliceous	6551	3.0	10	2
3370.9 - 3375.9'	BAZ, highly siliceous, locally 10% pyrite	6552	5.0	32	10
3375.9 - 3378.5'	BAZ	6553	2.6	7	4
3378.5 - 3380.5'	BAZ, locally 5% pyrite with	6554	2.0	113	30

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-85-17D
PAGE: 4

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au (ppb)	Mo (ppm)
	quartz stringers				
3380.5 - 3383.2'	BAZ	6555	2.7	6	4
3383.2 - 3387'	BAZ	6556	3.8	8	2
3387 - 3392'	BAZ	6557	5.0	36	nil
3392 - 3397'	BAZ	6558	5.0	7	6
3397 - 3401.1'	BAZ	6559	4.1	6	2
3401.1 - 3402'	BAZ, 2" quartz vein with 2% pyrite	6560	0.9	222	74
3402 - 3407'	BAZ	6561	5.0	12	2
3407 - 3412'	BAZ	6562	5.0	10	4
3412 - 3417'	BAZ	6563	5.0	4	2
3417 - 3422'	BAZ	6564	5.0	3	2
3422 - 3427'	BAZ	6565	5.0	36	6
3427 - 3432'	BAZ	6566	5.0	123	32
3432 - 3433.8'	BAZ	6567	1.8	168	32
3433.8 - 3435.3'	BAZ, quartz veining, 1% coarse pyrite, trace moly	6568	1.5	0.038opt	262
3435.3 - 3437.6'	BAZ	6569	2.3	51	10
3437.6 - 3439'	BAZ, 2" quartz vein, 1% pyrite, trace moly	6570	1.4	0.012opt	92
3439 - 3442'	BAZ	6571	3.0	8	4
3442 - 3447'	BAZ	6572	5.0	7	2
3447 - 3452'	BAZ	6573	5.0	4	2
3452 - 3457'	BAZ	6574	5.0	7	nil
3457 - 3462'	BAZ	6575	5.0	8	2
3462 - 3467'	BAZ	6576	5.0	8	4
3467 - 3472'	Green coloured, altered crystal tuff textured rock	6577	5.0	8	2
3472 - 3477'	As above	6578	5.0	3	2
3477 - 3482'	As above	6579	5.0	4	4
3482 - 3487'	As above	6580	5.0	6	2
3487 - 3492'	As above	6581	5.0	7	4
3492 - 3497'	As above	6582	5.0	11	2
3497 - 3502'	As above	6583	5.0	7	4
3502 - 3507'	As above	6584	5.0	4	2
3507 - 3512'	As above	6585	5.0	18	2
3512 - 3513.3'	Grades in BAZ	6586	1.3	4	7
3513.3 - 3515'	2" wide quartz vein, CA = 20 degrees, with 1% pyrite and moly	6587	1.7	80	722
3515 - 3517'	BAZ	6588	2.0	12	6
3517 - 3522'	BAZ - grades into green-coloured	6589	5.0	6	4
3522 - 3527'	Green-coloured, altered	6590	5.0	85	2

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-85-17D
PAGE: 5

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au (ppb)	Mo (ppm)
	(crystal tuff) texture				
3527 - 3532'	As above	6591	5.0	8	4
3532 - 3537'	As above	6592	5.0	3	4
3537 - 3542'	As above	6593	5.0	4	4
3542 - 3547'	Green-coloured, altered (crystal tuff texture)	6594	5.0	4	4
3547 - 3552'	As above	6595	5.0	3	4
3552 - 3554.7'	As above	6596	2.7	3	4
3554.7 - 3555.9'	Hematitic fault gouge	6597	1.2	2	8
3555.9 - 3558.7'	Brown-coloured, 1" wide albite vein	6598	2.8	4	6
3558.7 - 3563'	Green-coloured, as before	6599	4.3	2	4
3563 - 3564'	Quartz-albite veins, CA = 45 degrees, with porphyritic rock	6600	1.0	3	6
3564 - 3567'	Green-coloured, as before	6601	3.0	30	4
3567 - 3572'	As above	6602	5.0	11	6
3572 - 3577'	As above	6603	5.0	3	6
3577 - 3582'	As above	6604	5.0	4	6
3582 - 3587'	As above	6605	5.0	6	6
3587 - 3592'	As above	6606	5.0	4	6
3592 - 3597'	Brown-Altered Zone, gradational contacts	6607	5.0	6	nil
3597 - 3602'	As above	6608	5.0	3	nil
3602 - 3607'	Green-altered	6609	5.0	8	2
3607 - 3612'	Green-altered	6610	5.0	8	4
3612 - 3617'	BAZ - as before	6611	5.0	4	2
3617 - 3623'	As above	6612	5.0	6	2
3623 - 3627'	As above	6613	5.0	6	4
3627 - 3629'	As above	6614	2.0	4	4
3629 - 3630'	Quartz breccia and wallrock breccia (faulted)	6615	1.0	6	2
3630 - 3632'	BAZ	6616	2.0	10	4
3632 - 3637'	As above	6617	5.0	3	4
3637 - 3642'	BAZ - grades into green-altered	6618	5.0	4	4
3642 - 3647'	Green-altered	6619	5.0	3	2
3697 - 3652'	As above	6620	5.0	2	2
3652 - 3656.5'	As above - 1% disseminated pyrite and trace moly	6621	4.5	250	12
3656.5 - 3661.4'	Grey dike	6622	4.9	7	2
3661.4 - 3663.4'	Grey dike	1830	2.0	26	4
3663.4 - 3665.9'	Lower Gold Zone? silicified green tuff, 3 - 5% pyrite,	1828	2.5	0.12	252

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-85-17D
PAGE: 6

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au (ppb)	Mo (ppm)
	moly				
3665.9 - 3667.0'	Green-altered tuff	1829	1.1	88	8
3667.0 - 3672'	Green-altered mafic tuff/ volcanics	6623	5.0	6	2
3672 - 3677'	As above	6624	5.0	4	2
3677 - 3682'	As above	6625	5.0	6	4
3682 - 3687'	As above	6626	5.0	4	4
3687 - 3692'	As above	6627	5.0	4	4
3692 - 3697'	As above	6628	5.0	4	4
3697 - 3704.1'	As above; with 1' grey dike	6629	7.1	6	6
3704.1 - 3707.8'	Grey dike (tuff), fine-grained sericitic matrix with chlorite needles	6631	3.7	7	4
3707.8 - 3711'	Reddish-grey dike, with feldspar pheno's	6632	3.2	4	4
3711 - 3715.6'	Grey dike, as 6631	6633	4.6	51	4
3715.6 - 3717'	Green-altered; 1% pyrite, trace moly, minor quartz	6634	1.4	14	6
3717 - 3722'	Green-altered	6635	5.0	4	4
3722 - 3727'	As above	6636	5.0	26	4
3727 - 3732'	As above	6637	5.0	11	nil
3732 - 3737'	As above	6638	5.0	6	2
3737 - 3742'	As above, inor quartz veinlets	6639	5.0	4	4
3742 - 3747'	As above	6640	5.0	4	4
3747 - 3750.2'	As above	6641	5.3	4	2
3750.2 - 3755.5'	As above	6642	5.3	4	2
3755.5 - 3757.5'	Grey dike	6643	2.0	7	4
3757.5 - 3761'	Grey dike (tuff?)	6644	3.5	6	4
3761 - 3766.2'	Brown-Altered Zone - moly-pyrite and quartz stringers	6645	5.2	14	6
3766.2 - 3767'	Irregular quartz vein in BAZ	6646	0.8	19	6
3767 - 3772'	BAZ	6647	5.0	3	2
3772 - 3777'	BAZ	6648	5.0	4	2
3777 - 3780'	BAZ	6649	3.0	4	nil
3780 - 3781'	Sheared, quartz rich contact of BAZ/dike	6650	1.5	3	2
3781 - 3783.4'	Grey-pink dike	6651	2.4	6	2
3783.4 - 3787.3'	Green-altered tuff/volcanics	6652	3.9	4	2
3787.3 - 3790.1'	Quartz-albite veinlets at 45 degrees, in brown-altered	6653	2.8	7	2
3790.1 - 3794.2'	Green-altered	6654	4.1	6	2

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-85-17D
PAGE: 7

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au (ppb)	Mo (ppm)
3794.2 - 3797'	Green-altered tuff/volcanics	6655	2.8	6	2
3797 - 3802'	As above	6656	5.0	4	2
3802 - 3806.6'	As above	6657	4.6	7	2
3806.6 - 3808.7'	Green-altered with 1% pyrite, trace moly; minor quartz veinlets	6658	2.1	0.002opt	4
3808.7 - 3812'	Green-altered	6659	3.3	18	2
3812 - 3817'	As above	6660	5.0	3	2
3817 - 3822'	As above	6661	5.0	2	2
3822 - 3827'	As above	6662	5.0	3	2
3827 - 3831.7'	As above	6663	4.7	3	2
3831.7 - 3834.7'	As above	6664	3.0	4	2
3834.7 - 3836'	Fine-grained grey dike	6665	1.3	3	2
3836 - 3839.2'	As above, with minor quartz-albite stringers	6666	3.2	4	nil
3839.2 - 3840.3'	As 6665	6667	1.1	4	nil
3840.3 - 3844.7'	Green altered tuff/volcanics	6668	4.4	3	2
3844.7 - 3847'	As above	6669	2.3	6	2
3847 - 3852'	As above	6670	5.0	4	2
3852 - 3857'	As above	6671	5.0	3	2
3857 - 3862'	Grades into Brown-Altered-Zone	6672	5.0	26	2
3862 - 3867'	BAZ	6673	5.0	6	2
3867 - 3872'	BAZ	6674	5.0	4	2
3872 - 3877'	BAZ	6675	5.0	6	2
3877 - 3880.8'	BAZ	6676	3.8	4	2
3880.8 - 3882'	BAZ - 30% quartz veining	6677	1.2	6	2
3882 - 3886.1'	BAZ	6678	4.1	4	2
3886.1 - 3887'	BAZ - 50% quartz veining	6679	0.9	6	2
3887 - 3892'	BAZ	6680	5.0	3	4
3892 - 3897'	BAZ - grades out	6681	5.0	4	4
3847 - 3902'	Green mafics - as before	6682	5.0	6	4
3926.3 - 3927.2'	Bleached mafics, 50% quartz veining	6683	0.9	6	2
3929.7 - 3930.5'	Bleached mafics; 1 cm wide quartz with 2% pyrite	6684	0.8	7	2
3940.1 - 3941.3'	1" wide calcite vein with 5% pyrite	6685	1.2	6	2
3958.1 - 3961.3'	Grades into Brown-Altered Zone	6686	3.2	29	2
3961.3 - 3966'	BAZ	6687	4.7	6	2
3973 - 3978.4'	BAZ	6688	5.4	8	2
3983 - 3984.9'	Light green mafics, 4" wide quartz vein	6689	1.9	18	2

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-85-17D
PAGE: 8

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au (ppb)	Mo (ppm)
3984.9 - 3987'	As above, minor quartz veinlets	6690	2.1	8	2
3987 - 3988.9'	As above	6691	1.9	12	2
3988.9 - 3991.8'	As above	6692	2.9	4	ND
3991.8 - 3992.7'	As above	6693	0.9	8	2
3996.3 - 3998.2'	Altered mafics with quartz and less than 1% pyrite	6694	1.9	10	6
4000 - 4000.9'	Silicified mafics at contact with dike	6695	0.9	7	6
4015.6 - 4016.3'	Quartz veining at 55 degrees to CA	6696	0.7	4	4
4037 - 4037.7'	Quartz-calcite with less than 1% pyrite, at 35 degrees to CA	6697	0.7	3	18
4064.6 - 4067'	Silicified brown-altered zone	6698	2.4	4	6
4075.4 - 4076.7'	Irregular quartz veins in BAZ	6699	1.3	4	6
4079.2 - 4080.7'	As above	6700	1.5	105	2
	Samples from Anomalous Sludge Areas				
2607.0 - 2608.2'	Quartz-albite veinlets in sericitic conglomerate	1866	1.2	412	2
2611.5 - 2613.3'	As above	1867	1.8	25	nil
2620.6 - 2621.7'	As above	1868	1.1	12	nil
2629.4 - 2630.8'	As above	1869	1.4	11	2
2515 - 2516.1'	As above	1870	1.1	10	nil
2521.6 - 2522.5'	As above	1871	0.9	22	2

DRILL LOG HOLE: N-85-17E
PAGE: 1

NEWFIELDS MINERALS, INC. - KIRKLAND BASIN PROJECT

STRIKE: LOCATION:
DIP: DATE DRILLED: May 21 - June 18, 1986
LOGGED BY: T Twomey, J Mucklow
DRILLED BY: Heath & Sherwood Drilling
PURPOSE: Test North break up-dip

FOOTAGE	DESCRIPTION
	Top of wedge 1272'
1290.0 - 1366.6'	BIMODAL PORPHYRY
	Lower contact; CA = 35 - 40 degrees
1366.6 - 1736.3'	MAFIC SYENITE
	Contact zone contains trace pyrite
	1524.0' First felsic rib, becoming more abundant
	1534' Retrievable wedge, 1534 - 1539' Reamed
	1544' Felsic rib at 30 degrees to CA
	1557' Fractures at 30 degrees to CA
	1560 - 1561' Chloritic slip, parallel to CA
	1585' Retrievable wedge, 1858 - 1594' Reamed
	1600' Becoming increasingly strained such that texture is similar to the BAZ zones in holes 17
	1686' Becoming altered, many feldspar are pinkish
	1712.0 - 1728.0' Very pink
	1728.0 - 1736.3' Bleached zone, felsic ribs every 2 inches
	1736.3' Sharp contact; CA = 25 degrees
1736.3 - 2362.0'	TEMISKAMING SEDIMENTS
	1736.0 - 1737.3' INTERMEDIATE DIKE (3054 Zone?) Sericitic, upper contact 25 degrees, lower 40 degrees to CA
	1737.3 - 1739.4' GREYWACKE
	1739.4 - 2362.0' CONGLOMERATE
	1918.9 - 1919.9' LAMPROPHYRE DIKE with fracturing and quartz veining on contacts; CA = 30 degrees

FOOTAGE	DESCRIPTION
	TEMISKAMING SEDIMENTS (cont'd)
	1942.3 - 1949.0' Zone of shearing and brecciation (fault zone); CA = 45 - 50 degrees
	1957.4 - 1990' Conglomerate with numerous Lamprophyre Dikes at: 1957.4 - 1959.3; 1965.1 - 1966.4; 1968.1 - 1969.8; 1975.8 - 1976.8; 1983.6 - 1983.9; 1989.2 - 1990.5 locally quartz-feldspar veinlets on contact(s)
	2211 - 2260' SERICITIC ZONE - light green - bleached conglomerate with minor quartz veinlets and green mica, at 70 degrees to CA
	2280 - 2362' Lightly sericitic (grading to moderate), moderate deformation; CA = 65 degrees, local quartz-feldspar stringers and veinlets
2362.0 - 3201.5'	BASAL TUFF
	Commonly resembles greywacke but has no jasper, ash-sized with local lapilli tuff intercalations, bedding CA = 65 degrees, carbonated
	2362.0 - 2372.5' Sericitic with approximately 50% quartz veining and associated chlorite from 2362 - 2367' - probable fault structure
	2372.5 - 2392' Hematitic purple alteration, local quartz-feldspar stringers
	2392 - 2396.7' Sericitic
	2396.7 - 2401.9' INTERMEDIATE DIKE - grey with orange and black phenocrysts Upper contact strongly sheared and altered with quartz-feldspar veining, CA = 70 degrees; lower contact has 1/4" vein on contact and little shearing
	2408.1 - 2415.0' DIKE similar to above, both contacts sericitically altered 1' into tuff with quartz-feldspar veining
	2438.2 - 2446.0' DIKE as above, upper contact sharp and unaltered; CA = 35 degrees Cross-cutting bedding/foliation

FOOTAGE	DESCRIPTION
	BASAL TUFF (cont'd)
2446.0 - 2449.0'	Contact zone with dike, sericitic, sheared, 40% quartz-feldspar veining
2451.9 - 2453.1') 2457.5 - 2459.5')	INTERMEDIATE DIKES - biotite-phyric, dark-grey sharp contacts, unaltered; CA = 75 degrees
2469 - 2494'	Hematitic
2476 - 2481'	Agglomeratic, hematitic
2494.5 - 2506.0'	Sheared, carbonated, numerous quartz-feldspar-carbonate veins with trace coarse blue metallic mineral (specularite), lightly sericitic
2506.0 - 2710'	Tuff to lapilli tuff with local intercalations of agglomerate, hematitic
2635.5 - 2644'	Hematitic agglomerate, with red hematitic clasts, bedding at 50 degrees
2697.0 - 2697.6'	Quartz-albite veinlets at 60 degrees to CA
2710 - 2730'	Becoming conglomeratic - matrix supported (grit); minor jasper clasts
2735 - 2745'	Conglomeratic, as above
2761 - 2851'	Tuff showing numerous sedimentary features, ie) rip-up clasts, graded bedding, load casting
2851 - 2861'	Conglomeratic to fine-gravel-sized clasts of tuff, sediments and quartz; clast supported
2861 - 2946'	Tuff with numerous sedimentary features - convoluted bedding, load casting
2953.9 - 2956.2'	GREY DIKE - CA = 65 degrees, fine-grained
2967.5 - 3038.2'	Conglomeratic, polymictic, rounded clasts from 1 to 20 cm
3038.2'	Bedded tuff; CA = 70 degrees
3129 - 3131.5'	INTERMEDIATE DIKE - grey, fine-grained, contacts at 70 degrees
3180 - 3187.5'	REDDISH-GREY DIKE - chilled margins with reddish feldspar phenocrysts in centre, contacts at 70 degrees to CA

FOOTAGE	DESCRIPTION
	BASAL TUFF (cont'd)
	3200.5 - 3201.5' Quartz breccia vein at fault contact of sediments/volcanics
3201.5 - 3205.4'	KINOJEVIS VOLCANICS (?)
	Massive, dark green colour
3205.4 - 3213.2'	BASAL TUFF
	Graded bedding, fine-grained mafic composition, bright apple-green alteration (fuchsite), may be Kinojevis interflow sediments
	3205.7 - 3206.4' INTERMEDIATE DIKE - near upper contact of Basal Tuff
3213.2 - 3313'	KINOJEVIS VOLCANICS
	Fine-grained, massive, dark green, carbonated
	3213 - 3219' Fine-grained, bleached to light green
	3241' Becomes amygduloidal
3313'	END OF HOLE

FOOTAGE DESCRIPTION

BORE HOLE DATA

DATE	DEPTH	ACID TEST	WEDGE TOP	WEDGE TYPE	AZIMUTH (degrees)	DIP (degrees)	
May 21	1290'		1276'	Steel	352	-76.0	Start of hole 17E
May 23	1408'					-76.0	Magnetic
May 23	1320'				000.5	-76.0	
May 23	1350'				001.5	-75.5	
May 24	1427'				008	-76.0	Magnetic rock
May 24	1434'			Retriev.		-76.0	Wedge (retriev.)
May 24	1471'				000	-74.0	Magnetic
May 24	1471'					-74.0	
May 25	1484'			Retriev.		-74.0	Wedge (retriev.)
May 26	1579'				358	-72.0	Magnetic
May 26	1579'					-71.5	Dip only
May 27	1585'			Retriev.		-72.0	Wedge
May 28	1635'			Retriev.		-70.0	
May 30	1827'				350	-61.5	Conglomerate
June 1	2054'					-43.0	Dip only, conglomerate
June 5	2375'				334	-29.5	
June 8	2652'				5w	-23.5	Erroneous, rods stuck in drill string
June 9	2720'					-25.0	Dip only in rod string
June 11	2926'					-19.0	Acid Test
June 15	3166'				335	-15.0	
June 18	3313'				332	-12.5	EOH

SIGNED:

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-85-17E
PAGE: 1

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au (ppb)	Mo (ppm)
1302.7 - 1303.5'	Quartz-albite stringers at 80 degrees to CA in red porphyry	1861	2.8	30	nil
1366.6 - 1367.4'	Mafic syenite on QFP contact, trace pyrite	6701	0.8	14	6
1732.8 - 1736.3'	Mafic syenite, bleached, altered	6702	3.5	11	4
1736.3 - 1737.3'	Brown sericitic dike (3054 Zone?)	6703	1.0	4	2
1737.3 - 1740.4'	Conglomerate, quartz-feldspar stringers	6704	3.1	21	10
1740.4 - 1742.8'	Conglomerate, brecciated, quartz-feldspar-filling	6705	2.4	10	6
1742.8 - 1746.0'	As above	6706	3.2	6	2
1746.0 - 1748.5'	As above	6707	2.5	7	2
1748.5 - 1751.2'	As above	6708	2.7	8	2
1777.5 - 1779.3'	As above, quartz-feldspar stringers	6709	1.8	8	4
1795.4 - 1796.0'	Irregular quartz-feldspar veinlets	6710	0.6	14	2
1804.0 - 1806.4'	Quartz-albite vein, 1" wide, at 10 degrees to Ca	6711	2.1	4	4
1839.0 - 1840.2'	Conglomerate, quartz-feldspar stringers	6712	1.2	4	2
1883.9 - 1886.0'	Conglomerate, quartz-feldspar veining	6713	2.1	10	2
1906.7 - 1909.7'	Conglomerate, quartz-feldspar veining	6714	3.0	47	4
1909.7 - 1914.6'	Conglomerate, local quartz-feldspar stringers	6715	4.9	12	2
1914.6 - 1916.4'	Conglomerate, quartz-feldspar stringers	6716	1.8	8	2
1916.4 - 1920.2'	Conglomerate, quartz-feldspar veinlets, 1' lamprophyre dike	6717	3.8	29	2
1942.3 - 1945.0'	Sheared and brecciated conglomerate	6718	2.7	11	2
1945.0 - 1949'	As above	6719	4.0	10	nil
1975.6 - 1976.6'	Lamprophyre dike in conglomerate, 1" quartz-feldspar veining on	6720	1.0	6	2

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-85-17E
PAGE: 2

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au (ppb)	Mo (ppm)
	contact				
1989.2 - 1990.5'	As above	6721	1.3	10	2
2011.3 - 2012.6'	Conglomerate, quartz-feldspar veining, trace pyrite	6722	1.3	10	2
2023.0 - 2026.0'	Conglomerate, quartz-feldspar veining and stringers	6723	3.0	18	2
2051.3 - 2052.2'	1/2" wide quartz-albite stringer in conglomerate	1860	0.9	54	2
2157.5 - 2158.5'	As above	6724	1.0	36	6
2211.5 - 2212.6'	Bleached greywacke with minor quartz veinlets	6725	1.1	10	2
2212.6 - 2214.6'	Brecciated quartz-albite veins at 70 degrees to CA, in altered conglomerate	6726	2.0	8	2
2216.0 - 2217.4'	Altered conglomerate with minor quartz veinlets	6727	1.4	21	2
2232.4 - 2233.2'	As above	6728	0.8	18	4
2241.0 - 2241.5'	Brecciated quartz-albite (3" wide) vein at 60 degrees to CA	6729	0.5	10	4
2286.5 - 2287.6'	Sericitic conglomerate, narrow quartz-feldspar stringer	6730	1.1	17	2
1290.3 - 1291.1'	As above, in 1" shear	6731	0.8	18	2
2315.0 - 2318.4'	As above, quartz-feldspar veining and shearing	6732	3.4	8	2
2321.2 - 2323.7'	Sericitic conglomerate, shearing and brecciation, quartz-feldspar stringers	6733	2.5	15	2
2362 - 2367'	Sericitic tuff, 50% quartz veining	6734	5.0	52	6
2367 - 2372.5'	Sericitic tuff	6735	5.5	8	nil
2372.5 - 2376'	Hematitic tuff	6736	3.5	6	nil
2376 - 2380'	As above	6737	4.0	7	nil
2380 - 2384'	As above	6738	4.0	6	nil
2384 - 2388'	As above	6739	4.0	7	2
2388 - 2392'	As above	6740	4.0	6	nil
2392 - 2395.5'	Sericitic tuff	6741	3.5	8	6
2395.5 - 2397.8'	Dike/tuff contact, sheared, sericitic, quartz-feldspar veining	6742	2.3	12	2
2401.6 - 2402.4'	As above, 1/4" quartz-	6743	0.8	7	nil

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-85-17E
PAGE: 3

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au (ppb)	Mo (ppm)
	feldspar vein				
2402.4 - 2403.4'	Hematitic tuff, minor feldspar veinlets	6744	1.0	8	2
2403.4 - 2406.5'	Sericitic tuff, quartz-feldspar veining, adjacent to dike	6745	3.1	10	4
2414.6 - 2416.6'	Dike/tuff contact, sericitic and quartz-feldspar stringers	6746	2.0	4	4
2433.7 - 2438.2'	Lightly sericitic tuff, quartz-feldspar stringers	6747	4.5	7	4
2445.1 - 2446.0'	Grey dike, 1% disseminated pyrite	6748	1.1	47	2
2446.0 - 2450.0'	Sericitic tuff, 40% quartz-feldspar veining	6749	4.0	22	6
2466.0 - 2467.0'	Sericitic tuff, fractured with chlorite, minor quartz vein, less than 1% pyrite	6750	1.0	12	6
2494.5 - 2497.2'	Sericitic carbonate tuff	6751	2.7	34	4
2497.2 - 2500.9'	As above, quartz feldspar veining, trace galena	6752	3.7	10	2
2500.9 - 2503.8'	As above	6753	2.9	23	4
2503.8 - 2506.0'	As above, quartz-carbonate veining	6754	2.2	6	8
2697.0 - 2697.6'	Quartz-albite veinlets at 60 degrees to CA	6755	0.6	54	2
2760 - 2761.6'	Quartz-albite vein in tuff	6756	1.6	3	2
2843.6 - 2844.9'	As above, at 70 degrees to CA	6757	1.3	12	4
2883.3 - 2884.2'	Quartz-breccia veinlets	6798	0.9	10	4
2960 - 2960.7'	White quartz vein at 60 degrees to CA	6759	0.7	7	8
2976.0 - 2981.0'	Basal grit (agglomerate), trace fine disseminated pyrite	1891	5.0	97	4
2981.0 - 2986.0'	As above	1892	5.0	45	2
2986.0 - 2991.0	Greywacke grading to basal grit (agglomerate)	1885	5.0	112	2
2991.0 - 2996.0'	Basal grit (conglomerate)	1886	5.0	56	nil
2996 - 2996.9'	Minor quartz in interstices of clasts in agglomerate	1853	0.9	93	nil
2996.9 - 3001.0'	Basal grit (agglomerate), trace pyrite locally	1887	4.1	38	2
3001.1 - 3006.0'	As above	1888	5.0	124	2

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-85-17E
PAGE: 4

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au (ppb)	Mo (ppm)
3006.0 - 3008.6'	As above	1889	2.6	155	2
3008.6 - 3013.3'	As above, locally 2 - 3% coarse pyrite	1890	4.7	49	2
3013.3 - 3014.7'	Minor quartz veinlets and green mica, pyrite in bleached conglomerate	1854	1.4	49	nil
3014.7 - 3016'	Basal grit (agglomerate) with 1% coarse pyrite	1872	1.3	172	2
3016 - 3018'	As above	1873	2.0	135	2
3018 - 3020.3'	As above	1874	2.3	133	nil
3020.3 - 3023.1'	As above, with 1.2" nodular pyrite	1875	2.8	56	2
3023.1 - 3024.6'	As above	1855	1.5	0.044	2
3024.6 - 3026'	As above	1876	1.4	60	nil
3026.0 - 3027.8'	As above, minor quartz-albite	1877	1.8	93	2
3027.8 - 3029.4'	As above	1878	1.6	19	2
3029.4 - 3031'	As above	1879	1.6	38	2
3031 - 3031.8'	As above	1856	0.8	44	2
3031.8 - 3032.7'	As above	1880	0.9	26	2
3032.7 - 3036'	As above	1881	3.3	45	2
3036 - 3039.3'	As above	1882	3.3	170	nil
3039.3 - 3039.9'	As above, but in greywacke	1859	0.6	21	2
3039.9 - 3043.8'	Greywacke	1883	2.9	32	2
3042.8 - 3045.2'	Grey (lamprophyre (?) dike, with mafic pyrite at contact	1884	2.4	11	nil
3200.5 - 3201.5'	Quartz-breccia vein at fault	6760	6.0	33	nil
3205.2 - 3206.2'	Brecciated sediments and grey dike at volanics contact	6761	1.0	15	8
3206.2 - 3207.1'	Apple green sedimentary breccia	6762	0.7	19	10
3208.2 - 3208.8'	As above; with 1/2" wide quartz vein	6763	0.6	14	2
3210.2 - 3211.3'	As above	6764	1.1	4	
3211.3 - 3213.2'	As above	6765	1.7	54	2
3213.2 - 3215.2'	Basement volcanics, minor quartz-albite veinlets	6766	2.0	3	2

Note: Testing of anomalous sludge zones incorporated in assay report

DRILL LOG

HOLE: N-85-17F
PAGE: 1

NEWFIELDS MINERALS, INC. - KIRKLAND BASIN PROJECT

STRIKE:
DIP:
LOCATION:
DATE DRILLED: June 19 - July 21, 1986
LOGGED BY: T Twomey
DRILLED BY: Heath & Sherwood Drilling
PURPOSE: Test for westward extension of BAZ, Result: negative, too shallow

FOOTAGE		DESCRIPTION
995 - 1320.1'	BIMODAL PORPHYRY	
	1066 - 1068'	Blocky core
	1143'	Bleached fractures, at 40 degrees to CA
	1240'	1" wide grey dike at 5 degrees to CA
	1252 - 1256'	Grey dike, contact at 40 degrees to CA
	1256 - 1261'	No core, reamed at wedge
	1320.1'	Sharp irregular contact, CA = 50 degrees
1320.1 - 1732.0'	MAFIC SYENITE	
	Altered (baked?)	
	1327 - 1332'	Wedged and reamed out
	1332 - 1348.4'	BIMODAL PORPHYRY DIKE - lower contact sharp CA = 40 - 45 degrees,
	1348.4 - 1356'	Altered
	1537 - 1543'	Reamed out for wedge
	1567'	First felsic rib becoming increasingly abundant
	1711 - 1722'	Reddish alteration, gradually being overprinted by a grey-greenish alteration downhole, felsic ribs very common
	1722 - 1732.0'	Green alteration, felsic ribs common, quartz-feldspar stringers throughout
	1732.0'	Sharp contact, CA = 70 degrees
1732.0 - 2827'	TEMISKAMING SEDIMENTS	
	1732.0 - 2043.1'	CONGLOMERATE with narrow greywacke intercalations
	1732.0 - 1777'	Deformed, well fractured, commonly filled with quartz-feldspar veining
	1905 - 1913'	Greywacke
	2028.5 - 2039.0'	Fractured with quartz-feldspar filling and stringers; trace disseminated pyrite, locally to 1%

FOOTAGE	DESCRIPTION
	TEMISKAMING SEDIMENTS (cont'd)
	2037.1 - 2037.7' Lamprophyre Dike with quartz-feldspar veining on contacts, CA = 20 degrees
	2043.1 - 2076.6' GRITTY GREYWACKE, 1" lamprophyre dikes at 2055.8' (CA = 25 degrees) and 2059.2' (CA = 25 degrees)
	2076.6 - 2211.4' Numerous lamprophyre dikes
	2076.6 - 2812' CONGLOMERATE - local greywacke intercalations
	2359 - 2365' Quartz-feldspar veining and stringers
	2373.3 - 2387.1' LAMPROPHYRE DIKE - upper contact CA = 20 - 25 degrees, local quartz-feldspar veinlets
	2377 - 2382' Reamed out for wedge
	2402.1 - 2512.9' Numerous lamprophyre dikes
	2420 - 2437' Quartz-feldspar-carbonate veining with local trace pyrite
	2514.0 - 2522.4' GREY DIKE - locally porphyritic
	2522.4 - 2631' SERICITIC ZONE - locally abundant quartz-feldspar veinlets, fuchsitic mafic clasts, rare pyritic veins, trace disseminated pyrite
	2787 - 2792' Reamed out for wedge
	2742 - 2827' Sericitic
	2812 - 2817' GREYWACKE, local quartz veining
2827 - 2901.2'	KINOJEVIS VOLCANICS
	Alternating fine-grained and medium-grained sections, a few feet in length each, with numerous irregular quartz-albite veinlets
	2866.0 - 2869.3' INTERMEDIATE DIKE - fine-grained, upper contact is sheared for 1' CA = 25 degrees, lower contact at 45 degrees
	2869.3 - 2873' Mafic volcanics
	2872.8' Fault - hairline, dry, CA = 40 degrees, perpendicular to dike contact
	2873 - 2880'(?) INTERMEDIATE DIKE (as before)
	2877 - 2882' Reamed, no core
	2880 - 2890.0' Mafic volcanics

FOOTAGE		DESCRIPTION
	KINOJEVIS VOLCANICS (cont'd)	
	2890 - 2901.2'	INTERMEDIATE DIKE - fine-grained, grey to brown, with green spots and numerous quartz veins, at contact with mafic volcanics and sediments, CA = 40 degrees
2901.2 - 3345.7'	BASAL TUFF	
	2901 - 2442'	Sericitic, fine-grained, green, CA = 35 degrees
	2947 - 3145.2'	Mauve to brown, hematitic, fine-grained reworked tuff with lapilli and agglomerate sections
	3145.2 - 3163.6'	Sericitic, green, numerous quartz-feldspar veinlets
	3163.6 - 3174'	Brown, hematitic tuff and agglomerate
	3174 - 3183'	Sericitic, green coloured tuff and agglomerate
	3183 - 3219'	Reworked tuff, fine-grained, green, sericitic, exhibiting numerous sedimentary features
	3208 - 3208.4'	GREY DIKE - sericitic, contacts at 33 degrees
	3219 - 3260'	Grey coloured, finely bedded tuff with numerous lapilli (?); bedding at 50 degrees to CA
	3247.1 - 3248.6'	GREY DIKE - fine-grained, sericitic, contacts at 45 degrees to CA
	3260 - 3269'	CRYSTAL TUFF (?) intercalated with fine-grained sericitic sediments, fault gouge at 3269'
	3269 - 3279.4'	BASAL GRIT - agglomerate, weathering of basement volcanics
	3279.4 - 3325'	Finely bedded sericitic tuff, CA = 45 degrees
	3325 - 3345.7'	BASAL GRIT - mafic volcanic clasts
3345.7 - 3477'	KINOJEVIS VOLCANICS	
	3345.7 - 3365'	Hyaloclastite - textured amygduloidal mafic volcanics
	3345.7 - 3390'	Bleached grey-green colour, non-carbonatized and non-magnetic

FOOTAGE	DESCRIPTION
	KINOJEVIS VOLCANICS (cont'd)
	3390 - 3477' Dark green massive mafic volcanics, carbonatized and magnetic
3477'	END OF HOLE

FOOTAGE DESCRIPTION

BORE HOLE DATA

DATE	DEPTH	ACID TEST	WEDGE TOP	WEDGE TYPE	AZIMUTH (degrees) (327)	DIP (degrees)	
June 18	985'			Steel	005(?)	-77.5	START OF WEDGE HOLE 17F
June 20	1049'				359	-76	Erroneous- don't know why
June 20	1050'			Retriev.		-77.5	
June 22	1184'				358	-77.5	
June 23	1250'			Retriev.		-77.5	
June 24	1321'				350	-78	
June 25	1327'			Retriev.		-78	
June 25	1391'				340	-78.5	
June 26	1537'	- bottom		Retriev.		-79	
June 27	1600'				337	-79.5	
June 28	1734'				332	-79	
June 29	1884'				330	-78	
June 30	2031'				320	-76	
July 1	2110'				328	-76	
July 2	2211'				326	-75.5	
July 4	2341'				317	-74	
July 4	2377'	- bottom		Retriev.		-74	
July 6	2499'				319	-74	
July 7	2514'	- bottom		Retriev.			
July 8	2566'				321	-71.5	
July 9	2660'				316	-68	
July 9	2667'			Retriev.		-69.5	Steepening
July 11	2780'				314	-64	
July 11	2787'			Retriev.		-65	Steepening
July 13	2870'				312	-63	
July 13	2877'			Retriev.			Steepening RAZ
July 15	2980'				317	-59	
July 17	3183'				318	-49.5	
July 19	3368'				323	-45.5	
July 20	3469'				323	-44.5	
July 20	3477'						END OF HOLE

SIGNED:

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-85-17F
PAGE: 1

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au (ppb)	Mo (ppm)
1722.0 - 1727.0'	Altered mafic syenite with quartz-feldspar veining	6767	5.0	12	4
1727.0 - 1732.0'	As above	6768	5.0	7	2
1732.0 - 1737.0'	Deformed conglomerate, fractured with quartz-feldspar filling, lightly altered	6769	5.0	15	2
1737.0 - 1742.0'	As above	6770	5.0	17	2
1742.0 - 1747.0'	As above	6771	5.0	11	2
1747.0 - 1752.0'	As above	6772	5.0	10	2
1752.0 - 1757.0'	As above	6773	5.0	14	nil
1757.0 - 1762.0'	As above	6774	5.0	15	nil
1762.0 - 1767.0'	As above	6775	5.0	30	2
1767.0 - 1772.0'	As above	6776	5.0	15	6
1772.0 - 1777.0'	As above	6777	5.0	15	6
1970.4 - 1972.1'	Conglomerate, 1% disseminated pyrite, 2" pyritic nodule	6778	1.7	27	2
2028.5 - 2033.1'	Conglomerate, fractured, quartz-feldspar filling and stringers, trace pyrite	6779	4.6	11	2
2033.1 - 2037.0'	As above	6780	3.9	14	4
2037.0 - 2039.3'	As above	6781	2.3	8	2
2170.7 - 2172.0'	Lamprophyre dike with quartz-feldspar veining on lower contact	6782	1.3	136	4
2196.0 - 2197.5'	Conglomerate, quartz-feldspar stringers in racturing, fluorite	6783	1.5	22	4
2227.0 - 2228.1'	Conglomerate, minor quartz-feldspar stringer with 1% pyrite, CA = 25 degrees	6784	1.1	11	2
2231.7 - 2232.7'	Conglomerate to greywacke, quartz-feldspar stringers, CA = 20 degrees	6785	1.0	30	2
2237.7 - 2239.5'	Conglomerate with lamprophyre dikes and quartz-feldspar stringers	6786	1.8	12	4
2359.0 - 2364.9'	Conglomerate, quartz-feldspar veining and stringers	6787	5.9	25	2
2395.3 - 2397.0'	Conglomerate with less than	6788	1.7	7	2

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-85-17F

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au (ppb)	Mo (ppm)
	1% disseminated pyrite				
2416.6 - 2419.2'	Lamprophyre dike with quartz-feldspar veining	6789	2.6	12	4
2419.2 - 2422.4'	Conglomerate, quartz-feldspar-carbonate veining, local trace pyrite	6790	3.2	17	6
2422.4 - 2426.0'	As above	6791	3.6	10	2
2426.0 - 2428.0'	As above	6792	2.9	7	2
2428.9 - 2433.5'	As above	6793	4.6	17	2
2435.5 - 2437.0'	As above	6794	3.5	10	4
2512.3 - 2514.5'	Conglomerate, fractured with quartz-feldspar between lamprophyre and grey dikes	6795	2.2	36	2
2521.8 - 2525.0'	Conglomerate, sericitic, fractured, quartz-feldspar, contact with grey dike	6796	3.2	21	16
2583.0 - 2585.5'	Conglomerate, sericitic, local boudinaged pyrite veinlets	6797	2.5	12	2
2781.2 - 2782.5'	Conglomerate, sericitic, quartz-feldspar vein	6798	1.3	30	6
2817.0 - 2819.7'	Greywacke, sericitic, quartz-feldspar veining	6799	2.7	74	4
2826.1 - 2828.1'	As above, potassium at contact, 1% pyrite veinlets	6800	2.0	82	4
2841.0 - 2843.8'	Numerous irregular quartz-albite veinlets in mafic volcanics	6103	1.8	7	2
2853.9 - 2854.8'	As above	6104	1.4	14	2
2866 - 2867.6'	Intermediate dike, sheared upper contact	6105	1.6	11	2
2867.6 - 2869.3'	Intermediate dike, minor quartz-albite veinlets, 1/2" wide	6106	1.7	4	2
2869.3 - 2872.0'	Mafic volcanics with minor quartz-albite veinlets	6107	2.7	8	2
2872.0 - 2874.0'	Mafic volcanics and intermediate dike	6108	2.0	30	4
2874.0 - 2877.0'	Intermediate dike	6109	4.0	4	nil
2882.0 - 2887.0'	Mafic volcanics	6110	5.0	7	2
2887 - 2890'	Mafic volcanics	6111	3.0	10	2
2890 - 2892'	Intermediate dike, minor	6112	2.0	43	2

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-85-17F

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au (ppb)	Mo (ppm)
	quartz-albite veinlets, less than 1% pyrite				
2892 - 2895.3'	Intermediate dike, numerous quartz-albite veinlets, less than 1% pyrite	6113	3.3	7	2
2895.3 - 2896.8'	Intermediate dike, minor veinlets, brown altered, less than 1% pyrite	6114	1.2	8	2
2896.5 - 2898.5'	Intermediate dike, numerous quartz veins	6115	2.0	18	2
2898.5 - 2901.2'	Intermediate dike, 2.0' wide white quartz vein, CA = 40 degrees	6116	2.7	73	2
2901.2 - 2904.2'	Green sericitic sediments, minor quartz veinlets	6117	3.0	11	4
2906.4 - 2907.8'	As above	6118	1.4	19	2
2917 - 2919.3'	As above - light brown colour; ptygmatic veinlets	6119	2.3	7	2
3162 - 3163.7'	Green sericitic tuff with numerous quartz-albite veins	6120	1.7	30	2
3163.7 - 3165.2'	Brown hematitic tuff, numerous quartz veinlets	6121	1.5	25	2
3169.1 - 3172.2'	Brown and green tuff	6122	2.1	15	2
3172.2 - 3173.4'	Brown hematitic tuff, quartz-albite stringers	6123	1.2	7	nil
3179.2 - 3180'	Green sericitic tuff, numerous quartz-albite stringers	6124	0.8	11	2
3198 - 3200.3'	As above	6125	2.3	8	2
3268.8 - 3269.6'	Fault gouge in tuff, with 2" quartz vein	6126	0.8	151	2
3277.2 - 3278.2'	Basal Grit, 1% coarse pyrite	6127	1.0	34	nil
3324 - 3324.7'	Irregular quartz vein in tuff	6128	0.7	14	2
3328.5 - 3330.7'	Irregular quartz vein in Basal Grit	6129	2.2	12	2
3343 - 3345.7'	Silicified Basal Grit at Mafic Volcanics contact	6130	2.7	7	4
	Testing Anomalous Sludge Zones				
2557.0 - 2560.2'	Altered conglomerate with minor green mica	31372	3.2		

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-85-17F
PAGE: 4

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au (ppb)	Mo (ppm)
2597.0 - 2598.4'	As above with a quartz-albite stringer	31373	1.4		
2603.3 - 2605.2'	As above	31374	1.9		
2343.5 - 2347'	Conglomerate, 2 narrow quartz-albite stringers	31375	3.5		
2354.2 - 2357'	Conglomerate	31376	2.8		
2478.5 - 2481.7'	Quartz-albite stringers in lamprophyre dike and conglomerate	31377	3.2		
2814.8 - 2817'	Tuff, minor quartz-albite veinlets	31378	3.2		
2819.7 - 2823.2'	As above	31379	3.5		
2823.2 - 2826.1'	As above	31380	2.9		
2828.1 - 2830.6'	Mafic volcanics, below Temiskaming contact, numerous veinlets	31381	2.5		
2830.6 - 2835.3'	As above	31382	4.7		
2835.3 - 2841.0'	Mafic volcanics, numerous quartz-albite veinlets	31383	5.7		
2927 - 2932'	Bleached, sericitic tuff with quartz-albite veinlets	31384	5.0		
2932 - 2937'	As above	31385	5.0		
2937 - 2942'	As above	31386	5.0		
2942 - 2947'	As above	31387	5.0		
2947 - 2952'	Hematitic tuff, minor quartz-albite veinlets	31388	5.0		

DRILL LOG

HOLE: N-86-19D
PAGE: 1

NEWFIELDS MINERALS, INC. - KIRKLAND BASIN PROJECT

STRIKE: LOCATION:
DIP: DATE DRILLED: Apr 10 - May 22, 1986
LOGGED BY: J Mucklow, T Twomey
DRILLED BY: Heath & Sherwood Drilling
PURPOSE: Wedged off 19B to straighten hole

FOOTAGE		DESCRIPTION
1872 - 3087.5'	TEMISKAMING SEDIMENTS	
	1872 - 2742.5'	CONGLOMERATE - with local greywacke intercalations, foliated at 0 - 10 degrees, local magnetic clasts and zones
	1904 - 1905'	Blocky ground
	1920'	Wedged, reamed to 1925'
	1980'	Wedged, reamed to 1985'
	2060'	Wedged, reamed to 2069'
	2080 - 2140'	Abundant magnetic clasts
	2146 - 2151'	Blocky ground
	2209'	Wedged, reamed to 2220'
	2237 - 2239'	Blocky
	2231 - 2257'	Greywacke to locally siltstone and grit
	2385 - 2386.5'	Shear zone, gradationally more deformed to centre of zone where clasts are extremely elongated appearing like concordant veins, minor silica and albite introduced
	2576 - 2624'	Lightly sericitic
	2742.5 - 2821'	GREYWACKE - with local conglomeratic sections, strongly foliated at 20 degrees, narrow local sericitic zones generally proximal to quartz-feldspar stringers
	2821 - 3084.0'	CONGLOMERATE
	2895 - 2912'	Blocky ground, fracturing parallel to CA
	2918 - 2922'	Blocky ground
	2988 - 2989'	Blocky ground
	3040 - 3049'	Greywacke
	3064 - 3075'	Greywacke
	3084.0 - 3087.5'	GREY DIKE - highly deformed, upper contact at 15 degrees, parallel to schistosity, lower contact is oblique and deformed

FOOTAGE	DESCRIPTION
3087.5 - 4298'	KINOJEVIS VOLCANICS
	Dark green, with white feldspars, fine-grained, chloritic matrix, non-magnetic
3087.5'	Contact is highly deformed, not well defined; CA approximately 20 degrees
3087.5 - 3110'	Tectonic breccia texture
3110 - 3150'	Abundant quartz-albite veinlets irregular and brecciated Foliated at 15 degrees
3109.8 - 3110.5'	Quartz-breccia vein, 210 ppb Au over 0.7'
3115.5 - 3128.2'	Abundant quartz stringers in sheared mafics, CA = 20 degrees
3170 - 3175'	No core - reamed, wedged
3184.1 - 3188.2'	Silicic with abundant quartz stringers
3188.2 - 3219.4'	INTERMEDIATE DIKES - grey to green, locally brownish; commonly containing quartz-feldspar breccia veining and up to 1% pyrite, magnetite from 3216 -3217'; CA = 20 - 30 degrees
3214.0 - 3218.0'	Brown-grey dike with magnetite fragments, 95 ppb Au and 24 ppm Mo over 4.0'
3219.4 - 3297'	BROWN ALTERED ZONE (BAZ) - relatively undeformed, fine-grained volcanics, no sulfides
3221.5 - 3240.4'	Green-grey dike - CA = 20 degrees with magnetite fragments from 3233.7 - 3236.2'
3297'	Grades into unaltered mafic volcanics
3297 - 4090.0'	DARK GREEN VOLCANICS - massive, fine-to-medium-grained, magnetic,
3315 - 3331'	BAZ - fine-grained texture, no sulfides
3370.8 - 3375.7'	Numerous quartz-albite stringers parallel to CA
3441'	Red felsic rib

FOOTAGE	DESCRIPTION
	KINOJEVIS VOLCANICS (cont'd)
3442.7 - 3452.3'	INTERMEDIATE DIKE - light-brown-grey, quartz fractures in bleached zones, lower contact at 10 degrees to CA
3459 - 3470.8'	INTERMEDIATE DIKE - brown altered, upper contact at 35 degrees to CA, minor quartz stringers at 20 degrees to CA; lower contact at 40 degrees with quartz stringers
3483 - 3496.6'	INTERMEDIATE DIKE - numerous quartz-feldspar stringers, commonly with brown alteration haloes; lower contact CA = 25 degrees
3496.6 - 4090.0'	MAFIC VOLCANICS - fine to medium-grained, pervasive carbonate, strongly magnetic, local carbonate veinlets and stringers, phenocrysts (feldspar) elongated at low angle to core, local quartz-feldspar veinlets (CA = 20 degrees) with locally associated minor pyrite
3643.3 - 3643.7'	Flow top breccia?
3691 - 3701'	Altered, non-magnetic, contains leucoxene
3725.4 - 3732.7'	INTERMEDIATE DIKE - 4" quartz vein on upper contact; CA = 55 degrees
3732.7 - 3793'	Trace disseminated pyrite
3864.1 - 3866.4'	INTERMEDIATE DIKE - irregular contacts; CA = 25 degrees, non-magnetic
3889.7 - 3890.7'	INTERMEDIATE DIKE - sharp contacts, upper 25 degrees with 4" quartz-feldspar veinlets, 1% chalcopyrite, lower 35 degrees
3904.7 - 3908.2'	INTERMEDIATE DIKE - sharp contacts: upper 40 degrees, lower 50 degrees; non-magnetic
3908.2 - 3909.3'	Quartz-feldspar veining in volcanics with 10% very coarse pyrite, and chalcopyrite in equal proportions, 58 ppb Au, 3400 ppm Cu over 1.1'
3911.8 - 3916.7'	INTERMEDIATE DIKE - sharp contacts; CA = 30 - 35 degrees, non-magnetic
3974 - 3979'	Volcanics becoming increasingly altered (leucoxene more abundant) and decreasingly magnetic

FOOTAGE	DESCRIPTION
	KINOJEVIS VOLCANICS (cont'd)
3979 -3983.1'	Strongly altered volcanics, buff-green coloured, numerous quartz-feldspar veinlets, leucoxene, non-magnetic
3983.1 - 3998.3'	INTERMEDIATE DIKE - sharp contact; CA = 20 - 25 degrees, chilled margins, porphyritic in centre, minor quartz veinlets in alteration, lower contact sharp, CA = 70 degrees
3998.3 - 3999.8'	Bleached volcanics at contact of dike
4004.0 - 4006.0'	Bleached volcanics with minor quartz veins
4006.0 - 4009.3'	Blocky core, reground
4020 - 4030'	BLEACHED ZONE - minor irregular quartz veinlets
4090.0 - 4235.2'	Saussuritic Mafic Volcanics
4136.0 - 4141.5'	Mixed mafic to intermediate diking, mafic volcanics, and quartz-carbonate-epidote veining
4154.0 - 4159.5'	MAFIC TO INTERMEDIATE DIKE - quartz and pyrite veining on upper contact, quartz-epidote on lower
4203.2 - 4206.7'	MAFIC TO INTERMEDIATE DIKE - carbonate veining and trace pyrite on lower contact; CA = 15 - 20 degrees
4235.2 - 4298.0'	Saussuritic Gabbro
4298.0'	END OF HOLE

FOOTAGE DESCRIPTION

BORE HOLE DATA

DATE	DEPTH	ACID TEST	WEDGE TOP	WEDGE TYPE	AZIMUTH (degrees)	DIP (degrees)	PURPOSE - deflect into BAZ
Apr 10	1857'		1857'	Steel	350	-86.25	Flattening wedge - start hole
Apr 11	1914'				345	-85	
Apr 12	1940'		1940'	Retriev.		-87	Flattening wedge
Apr 13	1967'				350	-84	
Apr 14	1980'		1980'	Retriev.		-84.25	Flattening wedge
Apr 15	2025'				355	-82	
Apr 17	2060'		2060'	Retriev.		-82	Flattening wedge
Apr 19	2114'					-80.5	Acid test
Apr 20	2142'					-80	Acid test
Apr 20	2197'				338	-80.5	
Apr 21	2210'		2210'	Retriev.			Right azimuth wedge
Apr 23	2291'				352	-80	
Apr 24	2450'				348.5	-80	
Apr 25	2534'				348	-80	
Apr 26	2630'				340	-78.5	
Apr 29	2762'				333	-78	
May 2	2900'		2900'	Retriev.			Right azimuth
May 5	2990'				324	-76	
May 6	3049'		3154'	Retriev.			Right azimuth
May 8	3158'				311	-74	
May 8	3154'		3154'	Retriev.			Right azimuth
May 10	3206'				320	-74	Magnetic rocks
May 12	3360'					-73.5	Magnetic
May 15	3655'					-71.5	Magnetic
May 17	3807'					-70.5	Magnetic
May 22	4296'					-69.5	Magnetic
May 22	4025'				312	-70	
May 22	3727'				313	-71	
May 23	3490'				320	-71.5	
May 23	3365'				312	-73	Bogus reading - magnetic

SIGNED:

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-86-19D
PAGE: 1

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au (ppb)	Mo (ppm)
2385 - 2386.5'	Minor silica and albite in shear zone	5444	1.5	7	
2329 - 2334.4'	Conglomerate (high sludges)	5445	5.4	18	nil
2334.4 - 2338'	As above	5446	3.6	6	2
2338 - 2342'	As above	5447	4.0	10	8
2342 - 2346'	As above	5448	4.0	6	4
2346 - 2350'	As above	5449	4.0	12	2
2350 - 2354'	As above	5450	4.0	8	2
2414 - 2420'	As above	5451	6.0	10	2
2420 - 2426'	As above	5452	6.0	8	2
3109.8 - 3110.5'	Quartz-breccia vein in mafic tuff/volcanics	5453	0.7	210	8
3115.5 - 3117.7'	Abundant quartz stringers in sheared mafics	5454	2.2	8	2
3117.7 - 3122'	As above	5455	4.3	10	2
3125.5 - 3128.2'	As above	5456	2.7	18	2
3184.1 - 3188.2'	Silicified mafics with abundant quartz stringers	5457	4.1	6	nil
3188.2 - 3193'	Green dike - quartz-breccia veins, 1% disseminated pyrite	5458	4.8	3	2
3193 - 3197'	Grey dike, quartz-breccia veining, 1% disseminated pyrite	5459	4.0	4	2
3197 - 3200'	Grey dike - as above	5460	3.0	6	2
3200 - 3203.3'	Green dike, with quartz-breccia veining	5461	3.3	3	2
3203.3 - 3205.8'	Green dike, as above	5462	2.5	4	4
3205.8 - 3209.4'	Grey dike, with abundant quartz stringers	5463	3.6	18	4
3209.4 - 3211.1'	Quartz-breccia vein with 1% disseminated pyrite	5464	1.7	43	4
3211.1 - 3214'	White quartz vein, less than 1% pyrite	5466	2.8	34	4
3214 - 3218'	Brown-grey dike(?) tuff(?) with magnetite fragments .006opt	5467	4.0	95	24
3218 - 3219.4'	Brown-grey sericite dike	5468	1.4	26	8
3219.4 - 3221.5'	BAZ	5469	2.1	19	6
3221.5 - 3226.5'	Green dike	5470	5.0	7	2
3226.5 - 3230'	Green dike	5471	3.5	41	nil
3230 - 3233.7'	Green dike	5472	3.7	4	nil

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-86-19D
PAGE: 2

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au (ppb)	Mo (ppm)
3233.7 - 3236.2'	Grey dike(?) tuff(?) with magnetite fragments, 3 - 5% pyrite	5473	2.5	6	4
3236.2 - 3240.4'	Green dike	5474	4.2	4	2
3240.4 - 3245.4'	BAZ	5475	5.0	3	6
3245.4 - 3247'	Brown Altered Zone, in upper mafic volcanics, no pyrite	5476	1.6	7	6
3247 - 3250.8'	As above	5477	3.8	7	6
3250.8 - 3254'	As above	5478	3.2	8	6
3254 - 3259'	As above	5479	5.0	7	4
3259 - 3264'	As above	5480	5.0	7	2
3264 - 3269'	As above	5481	5.0	8	6
3269 - 3273.8'	As above	5482	4.8	7	8
3273.8 - 3278'	As above	5483	4.2	4	8
3278 - 3282.7'	As above	5484	4.7	7	2
3282.7 - 3286.7'	BAZ; with 50% irregular quartz veinlets	5485	4.0	4	4
3286.7 - 3291'	BAZ, as above	5486	4.3	29	4
3291 - 3296'	BAZ	5487	5.0	6	2
3296 - 3298.4'	Grades into green mafic volcanics	5488	2.4	8	2
3314 - 3317'	Grades into BAZ - no mineralization	5489	3.0	18	4
3324.9 - 3326.8'	BAZ, minor quartz stringers	5490	1.9	8	6
3328.4 - 3329.7'	BAZ, minor quartz stringers	5491	1.3	12	4
3339 - 3341.7'	Abundant quartz-albite stringers in green mafic volcanics	5492	2.7	4	8
3359 - 3359.7'	Quartz-breccia vein	5493	0.7	8	6
3370.8 - 3372'	Abundant quartz-albite stringers in mafic volcanics, parallel to CA	5494	2.2	3	6
3374.2 - 3375.7'	As above	5495	1.5	7	6
3408.9 - 3410'	Quartz stringers with 1% pyrite, in mafic volcanics	5496	2.1	6	6
3432.3 - 3433.6'	Quartz stringers	5497	1.3	8	4
3448 - 3450.9'	Quartz stringers in brown-altered intermediate dike	5498	2.9	7	4
3459.5 - 3460.5'	As above, stringers at 20 degrees to CA	5499	1.0	4	4
3463.6 - 3464.9'	As above, irregular quartz stringers	5500	1.3	6	6
3470.5 - 3471.1'	As above, irregular quartz	6201	0.6	8	10

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-86-19D
PAGE: 3

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au (ppb)	Mo (ppm)
	stringers at contact				
3483 - 3485.2'	Intermediate dike, quartz stringers at 85 degrees to CA	6202	2.2	6	6
3485.2 - 3487.9'	As above	6203	2.7	6	nil
3487.9 - 3491.0'	As above	6204	3.1	3	nil
3491.0 - 3493.2'	As above	6205	2.2	6	nil
3493.2 - 3496.6'	As above	6206	3.4	4	2
3520.7 - 3523.4'	Mafic volcanics, quartz-feldspar-carbonate stringers at CA = 20 degrees	6207	2.7	6	2
3560.0 - 3562.0'	Mafic volcanics, quartz-feldspar-carbonate stringers	6208	2.0	3	2
3567.0 - 3568.7'	As above	6209	1.7	3	2
3579.0 - 3580.0'	As above, trace pyrite	6210	1.0	6	2
3593.3 - 3594.3'	As above, trace pyrite	6211	1.0	4	4
3597.9 - 3598.9'	As above	6212	1.0	4	2
3584.9 - 3586.5'	As above, less than 1% pyrite	6213	1.6	7	2
3610.5 - 3612.0'	As above, trace pyrite	6214	1.5	6	4
3643.0 - 3644.0'	As above, trace pyrite	6215	1.0	2	4
3652.6 - 3653.6'	As above, trace pyrite	6216	1.0	3	4
3659.0 - 3661.2'	As above, trace pyrite	6217	2.2	23	6
3672.9 - 3674.0'	As above, trace pyrite	6218	1.1	15	6
3698.7 - 3699.8'	As above, quartz-feldspar veining	6219	1.1	14	4
3709.4 - 3710.5'	As above, quartz-feldspar-carbonate veining	6220	1.1	8	4
3724.8 - 3726.7'	Contact of intermediate dike with mafic volcanics, 4" quartz vein	6221	1.9	8	4
3889.0 - 3891.0'	Intermediate dike in mafic volcanics, chalcopyrite in quartz-feldspar veinlets in volcanics	6222	2.0	7	6
3897.3 - 3899.1'	Quartz-feldspar veining, CA = 35 degrees in mafic volcanics	6223	1.8	6	8
3904.7 - 3908.2'	Intermediate dike, local quartz-feldspar stringers, trace pyrite	6224	3.5	34	4
3908.2 - 3909.3'	Mafic volcanics, quartz-feldspar veinlets with coarse pyrite and chalco-	6225	1.1	58	4

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-86-19D
PAGE: 4

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au (ppb)	Mo (ppm)
	pyrite approximately 10%				
3909.3 - 3911.8'	Mafic volcanics, local quartz-feldspar stringers, trace pyrite	6226	2.5	8	6
3979.0 - 3983.1'	Mafic volcanics, strongly altered, numerous quartz-feldspar veinlets	6227	4.1	15	8
3983.1 - 3986.0'	Intermediate dike, quartz stringers and alteration	6228	2.9	4	4
3986.0 - 3991.1'	As above	6229	5.1	4	2
3991.1 - 3996.1'	As above	6230	5.0	6	4
3996.1 - 3998.5'	As above, lower contact with mafic volcanics, quartz stringers	6231	2.4	10	6
3998.5 - 3999.9'	Bleached volcanics	6232	1.4	7	4
4004.0 - 4006.0'	Bleached volcanics, quartz-feldspar stringers	6233	2.0	10	6
4020.0 - 4022.0'	As above, quartz-feldspar stringers	6234	2.0	21	4
4022.0 - 4025.2'	As above	6235	3.2	4	8
4025.2 - 4030.4'	As above	6236	4.8	11	4
4014.1 - 4016.0'	Mafic volcanics, numerous quartz-feldspar stringers, with alternating haloes	6237	1.9	6	4
4057.1 - 4058.4'	As above, quartz-feldspar-carbonate veining	6238	1.3	6	2
4102.9 - 4104.0'	As above quartz-feldspar-carbonate stringers, trace pyrite	6239	1.1	15	6
4136.0 - 4141.5'	Mixed volcanics, mafic-intermediate dike, quartz-carbonate-chalcopyrite veining	6240	5.5	8	4
4153.3 - 4155.0'	Quartz-pyrite veining on contact of mafic-intermediate dike	6241	1.7	7	2
4158.5 - 4160.4'	Quartz-chalcopyrite veining on contact of mafic-intermediate dike	6242	1.9	8	4
4206.2 - 4207.2'	Intermediate dike/volcanic contact, carbonate veining, trace pyrite	6243	1.0	18	2
4277.9 - 4279.1'	Gabbro, carbonate veinlets with associated coarse	6244	1.2	2	6

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-86-19D
PAGE: 5

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au (ppb)	Mo (ppm)
4293.5 - 4294.8'	pyrite As above	6245	1.3	6	4

DRILL LOG

HOLE: N-86-19E
PAGE: 1

NEWFIELDS MINERALS, INC. - KIRKLAND BASIN PROJECT

STRIKE: LOCATION:
DIP: DATE DRILLED: June 15 - Aug 19, 1986
LOGGED BY: T Twomey
DRILLED BY: Heath & Sherwood Drilling
PURPOSE: To cut BAZ further east

FOOTAGE		DESCRIPTION
	Top of Wedge at 1130'	
1156 - 1236.3'	BIMODAL PORPHYRY	
	1209 - 1219'	Wedged shallower
	1219 - 1236.3'	Becoming more syenitic
	1236.3'	Lower contact sharp but irregular with approximately 1" chilled margin, CA = 45 degrees
1236.3 - 1674.2'	MAFIC SYENITE	
	1236.3 - 1241'	Syenite altered, most intense nearest intrusive contact
	1243.8 - 1252.7'	MAFIC DIKE, fine-grained, dark green, CA = 25 degrees
	1300'	Becoming mesocratic downhole
	1318 - 1325'	No core, wedged shallower
	1361'	Chloritic fracturing at 38 degrees
	1490'	First felsic rib
	1522 - 1532'	Reamed out for wedge
	1648 - 1664'	Light reddish alteration, patchy then becoming overprinted by a green alteration
	1664 - 1674.2'	Green alteration, shearing, numerous narrow quartz-feldspar veinlets
	1674.2'	Sharp contact, CA = 80 degrees
1674.2 - 2686.5'	TEMISKAMING SEDIMENTS - CONGLOMERATE	
	With narrow greywacke intercalations	
	1674.2 - 1684'	Deformed and fractured, foliation CA = 15 degrees
	1701.2 - 1702'	LAMPROPHYRE DIKE, quartz-feldspar veining on upper contact, CA = 35 degrees
	2028.1 - 2197.8'	Conglomerate with numerous lamprophyre dikes

FOOTAGE	DESCRIPTION
	TEMISKAMING SEDIMENTS (cont'd)
	2056.4 - 2076.4' Fractured conglomerate, local quartz-feldspar filling, rock has an orange hue (hematitic?)
	2169.0 - 2169.7' RED-BROWN DIKE - contacts upper CA = 35 degrees, lower CA = 80 degrees
	2184 - 2191' Reamed out for wedge, NX core to 2196'
	2200.6 - 2201.6' FELSIC DIKE, CA = 15 - 20 degrees, porphyritic
	2208.0 - 2209.3' FELSIC DIKE, fine-grained, CA = 25 - 30 degrees
	2414.3 - 2430.5' Several narrow lamprophyre dikes
	2436' Hole stopped - off course - backed up to wedge at 2243' to east
	2474 - 2476.8' SERICITIC ZONE - numerous quartz-feldspar veinlets, fuchsitic clasts, strongly deformed, schistosity CA = 15 - 25 degrees, local evidence of folding, local concordant lamprophyre dikes
	2678 - 2684' Reamed, no core
2686.5 - 3760'	KINOJEVIS VOLCANICS
	Alternating fine-grained and medium-grained sections every few feet, carbonatized, minor calcite stringers
	2684 - 2689' Highly deformed transition between sediments and volcanics
	2767 - 2925' Numerous calcite veinlets, at various angles to CA, (commonly low angles)
	2925 - 2956.2' Loss of carbonate; now silicified; with some quartz veins
	2956.2 - 2973.8' INTERMEDIATE DIKE - grey-green, spotted, green mica, fine-grained, sericitic, CA = 20 degrees
	2963 - 2973.8' Breccia texture, cemented by quartz-albite veinlets
	2966 - 2966.4' Grey clay zone - fault(?)

FOOTAGE	DESCRIPTION
	KINOJEVIS VOLCANICS (cont'd)
2973.9 - 3525'	BROWN ALTERED ZONE (BAZ) - foliated at 10 -25 degrees to CA
2973.8 - 2990'	Gradual colour change from green to mauve to brown
2978.3 - 2980'	4" wide quartz vein and 10% coarse disseminated pyrite in walls; 0.139 oz/ton Au over 1.8'
3007.5 - 3009.5'	1" wide fine-grained grey dike at 10 degrees to CA
3010 - 3013.4'	GREY DIKE - fine-grained, contacts at 30 and 20 degrees to CA
3022.5 - 3024'	BAZ with numerous quartz-albite veinlets
3030.1 - 3033.3'	GREY DIKE - fine-grained, deformed (sheared), minor green spots (chlorite), upper contact at 25 degrees; lower contact at 12 degrees to CA
3060.5 - 3062'	Brecciated quartz veining at 10 - 20 degrees to CA, with 1% disseminated pyrite and moly; 0.044 oz/ton Au over 1.6'
3066.6 - 3071.8'	GOLD ZONE - four quartz-albite-pyrite-moly zones in BAZ, at 20 degrees to CA, each has true width of 3", upper contact of zone bounded by a quartz vein (2" wide) at 28 degrees to CA; 0.115 oz/ton Au over 5.2'
3071.8 - 3075.2'	GREY DIKE - with white stretched feldspar phenocrysts, upper contact at 60 degrees, lower at 75 degrees to CA, sheared at 20 degrees to CA, with quartz stringers
3130.5 - 3131.7'	Quartz-albite veinlets, 1% pyrite
3149.8 - 3151.7'	4" wide quartz veinlet and coarse pyrite at 20 degrees to CA; 0.046 oz/ton Au over 1.9'
3166.4 - 3167.4'	GREY DIKE, contacts, upper at 20 degrees, lower at 60 degrees to CA
3179 - 3211'	BAZ with numerous quartz-albite veinlets and coarse disseminated pyrite (approximately 1%)

FOOTAGE	DESCRIPTION
	KINOJEVIS VOLCANICS (cont'd)
3221 - 3253'	BAZ with quartz-albite veinlets and less than 1% coarse disseminated pyrite; 0.02 oz/ton Au over 5.0'
3254.6 - 3254.9'	GREEN DIKE at 45 degrees to CA
3370 - 3400'	BAZ with numerous quartz-albite veinlets and less than 1% coarse disseminated pyrite
3399 - 3432'	Magnetic
3401.5 - 3403.5'	Dark green, less altered zone, magnetic
3405 - 3409'	Dark green, less altered, magnetic
3446.7 - 3447.5'	Albite veining with pyrite and moly (1%), CA = 15 degrees
3448.6 - 3450.5'	Albite veining with 5% pyrite and moly, CA = 20 degrees; 0.02 oz/ton Au over 10.5'
3474.1 - 3525'	Variable colour from light green sericitic, to dark green chloritic, to orange and grey although texture remains the same, local concentrations of coarse pyrite and/or quartz-feldspar veining; grading out of BAZ becoming dark green and very magnetic
3500.2 - 3501.2'	GREEN SPOTTED DIKE - CA = 10 degrees
3522'	Grades out of Brown Altered Zone and becomes dark green and strongly magnetic
3568.9 - 3572.7'	GREY DIKE - with minor feldspar phenocrysts, upper contact 20 degrees, lower at 10 degrees to CA
3584.0 - 3595.9'	GREY DIKE - as above; contacts, upper at 30 degrees, lower at 45 degrees
3595.9 - 3697.7'	Dark green to grey, magnetite and feldspar-phyric, mafic-volcanic; as before
3647.7 - 3654.8'	GREY DIKE - as before, contact at 35 degrees to CA, lower contact is irregular
3683.7 - 3686.8'	GREY DIKE - as before, contacts at 55 degrees to CA

FOOTAGE	DESCRIPTION
	KINOJEVIS VOLCANICS (cont'd)
	3701.2 - 3704' Three small GREEN-SPOTTED DIKES contacts at 25 degrees to CA
	3704 - 3760' Dark green mafic volcanics; magnetic, carbonated
	3742') Hematite fracture fillings
	3747')
3760'	END OF HOLE

FOOTAGE DESCRIPTION

BORE HOLE DATA

DATE	DEPTH	ACID TEST	WEDGE TOP	WEDGE TYPE	AZIMUTH (degrees)	DIP (degrees)	
June 15	1146'		1130'	Steel	350	-85	Start of wedge Hole 19E
June 17	1209'		1209'	Retriev.	351	-85	Shallowing wedge
June 18	1332'				351	-82	
June 18	1338'			Retriev.		-82	Shallowing wedge
June 20	1315'			Steel			Replace above wedge - core barrel stuck
June 23	1438'				000	-80.5	
June 24	1480'			Retriev.		-82	
June 27	1654'				357	-80.5	
June 29	1842'			Retriev.		-81	
June 29	1876'				352	-81	
July 1	2000'				352	-79.5	
July 2	2081'				352	-79.5	
July 3	2178'				349	-79.5	
July 4	2184'			Retriev.		-79.75	
July 5	2292'				354	-79.25	
July 6	2434'				335	-77	
July 6	2374'				340	-78	
July 7	2250'			Steel	RAZ		Back up hole, steel wedge at last good test
July 8	2304'				002	-78.5	
July 10	2460'				358	-78.5	
July 11	2570'				350	-76	
July 12	2670'				346	-73.5	
July 13	2677'			Retriev.		-74	RAZ
July 14	2728'				352	-73	
July 17	2968'				345	-72	
July 19	3178'				330	-64	
July 21	3380'				322	-58.5	
July 30	3590'				326	-56	
Aug 1	3760						END OF HOLE

SIGNED:

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-86-19E
PAGE: 1

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au (ppb)	Mo (ppm)
1700.6 - 1702.0'	Lamprophyre dike in conglomerate with quartz-feldspar veining	6246	1.4	7	2
1664.0 - 1669.0'	Altered mafic syenite with quartz-feldspar veining	6247	5.0	11	nil
1669.0 - 1674.2'	Altered mafic syenite with quartz-feldspar veining	6248	5.2	6	2
1674.2 - 1679.0'	Deformed conglomerate, fractured with quartz-feldspar filling	6249	4.8	12	2
1679.0 - 1684.0'	Deformed conglomerate, fractured with quartz-feldspar filling	6250	5.0	19	2
2047.4 - 2048.5'	Conglomerate, sheared brecciated zone, CA = 10 degrees, quartz-feldspar filling	6251	1.1	12	4
2060.8 - 2064.7'	Orange hue, lamprophyre dikes, fracturin, quartz-feldspar, breccia zone	6252	3.9	11	4
2196.0 - 2198.0'	Lamprophyre dike with quartz veining on upper contact	6253	2.0	11	4
2414.1 - 2418.3'	Conglomerate with 2 lamprophyre dikes and associated quartz-feldspar veinlets	6254	4.2	7	2
2428.7 - 2430.5'	Conglomerate with quartz-feldspar fractures and lamprophyre dike	6255	1.8	22	4
2423.2 - 2425.9'	Lamprophyre dike with contact, associated quartz-feldspar veining	6256	2.7	12	6
2432.9 - 2434.4'	As above, with internal quartz-feldspar veining	6257	1.5	55	4
2480.4 - 2483.0'	Conglomerate, sericitic, quartz-feldspar veining, local trace pyrite	6258	2.6	11	4
2484.2 - 2487.4'	As above	6259	3.2	12	2
2489.4 - 2492'	As above	6260	2.6	54	4
2528.0 - 2530.3'	As above	6261	2.3	10	2
2556.7 - 2558.5'	Minor quartz-albite veining in conglomerate	6262	1.8	8	4

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-86-19E
PAGE: 2

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au (ppb)	Mo (ppm)
2684.0 - 2686.5'	Dominantly congomerate - minor green mica and quartz veinlets	6263	2.5	14	nil
2686.5 - 2689'	Dominantly mafic volcanics at contact with conglomerate	6264	2.5	56	2
2926 - 2927.4'	Quartz veinlet 2" wide at 10 degrees to CA, in mafic volcanics	6265	1.4	10	2
2928.3 - 2929.2'	Quartz-albite veinlets in altered mafic volcanics	6266	0.9	18	2
2949.2 - 2952'	Bleached mafic volcanics, mm-sized pyrite seam	6267	2.8	7	nil
2952 - 2953.5'	Quartz-albite vein at 45 degrees to CA, in mafic volcanics	6268	1.5	41	2
2953.5 - 2956.2'	Mafic volcanics with albite veinlets; at contact with dike	6269	2.8	15	nil
2956.2 - 2959.1'	Grey dike with minor quartz-albite veinlets	6270	2.9	21	2
2959.1 - 2962.0'	As above	6271	2.9	11	2
2962.0 - 2966.2'	Grey dike, breccia texture with quartz-albite veins	6272	4.0	17	2
2966.0 - 2970.1'	As above	6273	4.1	38	7
2970.1 - 2973.4'	Green-spotted dike	6274	3.3	10	2
2973.4 - 2974.7'	Quartz-albite vein with 2% coarse pyrite in wallrock	6275	1.3	164	2
2974.7 - 2978.2'	BAZ, mauve coloured, 1% coarse disseminated pyrite	6276	3.5	14	2
2978.2 - 2980.0'	BAZ, with 5% coarse cubic pyrite and quartz veinlets	6277	1.8	0.139	2opt
2980.0 - 2985.0'	BAZ	6278	5.0	14	4
2985.0 - 2990.0'	BAZ	6279	5.0	22	2
2990.0 - 2995.0'	BAZ	6280	5.0	6	2
2995.0 - 3000.0'	BAZ	6281	5.0	4	2
3000.0 - 3005.0'	BAZ	6282	5.0	302	20
3005.0 - 3009.7'	BAZ	6283	4.7	10	2
3009.7 - 3013.4'	Grey Dike	6284	3.7	7	4
3013.4 - 3018.4'	BAZ	6285	5.0	143	20
3018.4 - 3020.0'	BAZ	6286	1.6	15	2
3020.0 - 3022.5	BAZ	6287	2.5	3	2
3022.5 - 3025.7'	BAZ, minor quartz veinlets	6288	3.2	7	2
3025.7 - 3027.1'	As above	6289	1.4	19	2

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-86-19E
PAGE: 3

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au (ppb)	Mo (ppm)
3027.1 - 3028.8'	As above	6290	0.9	12	2
3028.0 - 3031.9'	BAZ	6291	3.9	10	2
3031.9 - 3033.0'	BAZ	6292	1.1	11	2
3033.0 - 3036.0'	Grey Dike	6293	3.0	11	2
3036.0 - 3039.1'	BAZ, with quartz-pyrite at contact with above dike	6294	3.1	98	4
3039.1 - 3043.1'	BAZ	6295	4.0	8	2
3043.1 - 3045.2'	BAZ	6296	2.1	4	2
3045.2 - 3047.0'	BAZ	6297	1.8	11	2
3047.0 - 3049.9'	BAZ	6298	2.9	26	2
3049.9 - 3050.9'	BAZ, with 1/2" wide quartz-chlorite breccia vein, less than 1% pyrite	6299	1.0	92	2
3050.9 - 3054.3'	BAZ	6300	3.4	4	2
3054.3 - 3058'	BAZ	31151	3.7	10	2
3058.0 - 3060.5'	BAZ, minor quartz-albite veinlets	31152	2.5	18	2
3060.5 - 3062.1'	Brecciated quartz vein in BAZ, 1% disseminated pyrite and moly	31153	1.6	.044	114
3062.1 - 3064.5'	BAZ	31154	2.4	294	84
3064.5 - 3066.6'	BAZ	31155	2.1	105	6
3066.6 - 3069.6'	Gold Zone, 3 quartz-albite-pyrite-moly stringers in BAZ	31156	3.0	.106opt	382
3069.6 - 3071.8'	BAZ, with 2" wide quartz-pyrite-moly stringers at 30 degrees	31157	2.2	.128	48
3071.8 - 3073.5'	Grey Dike	31158	1.7	38	4
3073.5 - 3075.2'	Grey Dike - minor quartz veinlets	31159	1.7	32	2
3075.2 - 3079.6'	BAZ	31160	4.4	26	2
3079.6 - 3084.5'	BAZ	31161	4.9	10	4
3084.5 - 3088.0'	BAZ	31162	3.5	4	2
3088.0 - 3092.7'	BAZ	31163	4.7	12	4
3092.7 - 3098.0'	BAZ	31164	5.3	18	6
3098.0 - 3103.0'	BAZ	31165	5.0	10	4
3103.0 - 3108.0'	BAZ	31166	5.0	6	2
3108.0 - 3112.6'	BAZ	31167	4.6	4	4
3112.6 - 3113.6'	BAZ, quartz plus 1% coarse disseminated pyrite	31168	1.0	36	4
3113.6 - 3118'	BAZ	31169	4.4	4	2
3118.0 - 3123.0'	BAZ	31170	5.0	6	2
3123.0 - 3124.9'	BAZ	31171	1.9	7	2

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-86-19E
PAGE: 4

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au (ppb)	Mo (ppm)
3124.9 - 3126.4'	BAZ, quartz-albite veinlets at 25 degrees to CA, 1% pyrite	31172	1.5	55	2
3126.4 - 3128.0'	BAZ	31173	1.6	19	4
3128.0 - 3130.5'	BAZ	31174	2.5	17	2
3130.5 - 3132.1'	BAZ, 1% pyrite with abundant quartz-albite veinlets	31175	2.6	54	2
3132.1 - 3237.2'	BAZ	31176	5.1	8	4
3137.2 - 3141.2'	BAZ	31177	4.0	6	2
3141.2 - 3145.2'	BAZ, with minor quartz-albite veinlets at 30 degrees to CA	31178	4.0	7	2
3145.2 - 3148.0'	BAZ	31179	2.8	36	2
3148.0 - 3149.8'	BAZ	31180	1.8	10	2
3149.8 - 3151.7'	Coarse pyrite at 20 degrees, about 4" wide, in BAZ	31181	1.9	0.046opt	34
3151.7 - 3153.8'	BAZ, minor quartz veinlets with pyrite	31182	2.1	63	10
3153.8 - 3156.0'	BAZ, minor quartz veinlets with pyrite	31183	2.2	67	2
3156.0 - 3159.8'	BAZ	31184	3.0	6	2
3159.0 - 3161.0'	BAZ	31185	2.0	69	2
3161.0 - 3165.0'	BAZ	31186	4.0	43	2
3165.0 - 3166.4'	BAZ, minor quartz veinlets and 1% disseminated pyrite	31187	1.4	307	2
3166.4 - 3167.4'	Grey dike	31188	1.0	21	2
3167.4 - 3171'	BAZ, minor quartz veinlets	31189	3.6	52	2
3171.0 - 3173.7'	BAZ, minor quartz veinlets	31190	2.7	32	nil
3173.7 - 3176.0'	BAZ	31191	2.3	22	2
3176.0 - 3179.2'	BAZ	31192	3.2	29	4
3179.2 - 3181.0'	BAZ, numerous quartz-albite veinlets, 1% pyrite	31193	1.8	138	2
3181.0 - 3184.2'	As above	31194	3.2	333	2
3184.2 - 3187.5'	As above	31195	3.3	125	2
3187.5 - 3191.9'	As above	31196	4.4	21	2
3191.9 - 3194.9'	As above	31197	3.0	95	2
3194.9 - 3198.2'	BAZ, less than 1% pyrite	31198	3.3	12	nil
3198.2 - 3201.0'	BAZ, numerous quartz-albite veinlets, 1% pyrite	31199	2.8	63	2
3201.0 - 3203.5'	As above	31200	2.5	103	2
3203.5 - 3206.0'	As above	31201	2.5	64	2
3206.0 - 3207.7'	As above	31202	1.7	53	2

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-86-19E

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au (ppb)	Mo (ppm)
3207.7 - 3211.0'	As above	31203	3.3	59	2
3211.0 - 3216'	BAZ	31204	5.0	29	2
3216.0 - 3217.5'	BAZ	31205	1.5	22	4
3217.5 - 3221.8'	BAZ	31206	4.3	8	2
3221.8 - 3223.6'	BAZ, with some quartz-albite veinlets, less than 1% pyrite	31207	1.8	277	12
3223.6 - 3224.9'	As above	31208	1.3	352	22
3224.9 - 3226.0'	As above	31209	1.1	825	120
3226.0 - 3226.8'	As above, with 1" wide black quartz vein	31210	0.8	218	54
3226.8 - 3231.0'	As above	31211	4.2	33	2
3231.0 - 3233.7'	As above	31212	2.7	44	4
3233.7 - 3236.0'	As above	31213	2.3	291	8
3236.0 - 3240.0'	As above	31214	4.0	107	4
3240.0 - 3242.3'	As above	31215	2.3	118	2
3242.3 - 3245.0'	As above	31216	2.7	97	2
3245.0 - 3247.2'	As above	31217	2.2	38	2
3247.2 - 3249.9'	As above	31218	2.7	19	4
3249.9 - 3253.0'	As above	31219	3.1	15	4
3253.0 - 3255.2'	As above, with 2" wide green dike	31220	2.2	8	4
3255.2 - 3257.6'	BAZ	31221	2.4	10	2
3257.6 - 3261.0'	BAZ	31222	3.4	6	2
3261.0 - 3264.3'	BAZ	31223	3.3	53	2
3264.3 - 3266.4'	BAZ	31224	2.1	7	4
3266.4 - 3271.0'	BAZ	31225	4.6	6	4
3271.0 - 3275.7'	BAZ	31226	4.7	32	2
3275.7 - 3277.0'	BAZ, abundant quartz veins	31227	1.3	393	4
3277.0 - 3281.0'	BAZ	31228	4.0	8	4
3281.0 - 3285.8'	BAZ	31229	4.8	12	4
3285.8 - 3290.6'	BAZ	31230	4.8	21	2
3290.6 - 3292.4'	BAZ, dark green colour	31231	1.8	4	2
3292.4 - 3294.9'	BAZ	31232	2.5	7	2
3294.9 - 3296.6'	BAZ, with quartz and specular hematite veinlets	31233	1.7	4	2
3296.6 - 3299.6'	BAZ	31234	3.0	6	2
3299.6 - 3303.6'	BAZ	31235	3.4	4	2
3303.0 - 3308.0'	BAZ	31236	5.0	6	4
3308.0 - 3313.0'	BAZ	31237	5.0	6	4
3313.0 - 3318.0'	BAZ	31238	5.0	10	2
3318.0 - 3323.0'	BAZ	31239	5.0	3	4
3323.0 - 3328.0'	BAZ	31240	5.0	6	4
3328.0 - 3333.0'	BAZ	31241	5.0	232	4

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-86-19E
PAGE: 6

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au (ppb)	Mo (ppm)
3333.0 - 3338.0'	BAZ	31242	5.0	17	2
3338.0 - 3343.0'	BAZ	31243	5.0	6	6
3343.0 - 3348.0'	BAZ	31244	5.0	3	4
3348.0 - 3352.8'	BAZ	31245	4.8	3	2
3352.8 - 3354.5'	BAZ, quartz-albite veinlets, in shear at 25 degrees to CA	31246	0.7	4	8
3354.5 - 3358.0'	BAZ	31247	3.5	6	4
3358.0 - 3363.0'	BAZ	31248	5.0	3	6
3363.0 - 3368.0'	BAZ	31249	5.0	6	2
3368.0 - 3370.8'	BAZ	31250	2.8	8	8
3370.8 - 3373.7'	BAZ, quartz veining with trace pyrite	31251	2.9	7	4
3373.7 - 3378.0'	BAZ, quartz veining with up to 3% pyrite	31252	4.3	12	4
3378.0 - 3381.2'	BAZ, quartz veining	31253	3.2	10	2
3381.2 - 3382.8'	BAZ, quartz veining	31254	1.6	11	4
3382.8 - 3384.5'	BAZ, quartz veining	31255	1.7	15	4
3384.5 - 3388.5'	BAZ, trace pyrite	31256	4.0	17	2
3388.5 - 3390.6'	BAZ, quartz-feldspar veining, locally 5% pyrite	31257	2.1	25	2
3390.6 - 3393.0'	BAZ, trace pyrite	31258	2.4	7	2
3393.0 - 3395.0'	BAZ, quartz veining	31259	2.0	8	2
3395.0 - 3398.4'	BAZ	31260	3.4	4	2
3398.4 - 3400.6'	BAZ, magnetic	31261	2.2	6	2
3400.6 - 3405.0'	Dark green BAZ, magnetic	31262	4.4	2	2
3405.0 - 3409.3'	As above	31263	4.3	10	4
3409.3 - 3412.6'	BAZ	31264	3.3	12	2
3412.6 - 3416.1'	BAZ	31265	3.5	21	2
3416.1 - 3419.2'	BAZ, greenish, magnetic	31266	3.1	7	nil
3419.2 - 3421.4'	BAZ, quartz-feldspar veining	31267	1.8		2
3421.4 - 3426.4'	BAZ, greenish, magnetic	31268	5.0		2
3426.4 - 3431.7'	BAZ, greenish, magnetic	31269	5.3		2
3431.7 - 3436.0'	BAZ	31270	4.3	19	2
3436.0 - 3440.0'	BAZ, minor quartz-feldspar with 1% pyrite	31271	4.0		2
3440.0 - 3444.2'	BAZ	31272	4.2	11	2
3444.2 - 3446.5'	BAZ, minor quartz-feldspar veinlets with up to 1% pyrite	31273	2.3	0.006opt	6
3446.5 - 3447.5'	BAZ, quartz-feldspar veining, pyrite and moly 5%	31274	1.0	0.042opt	548
3447.5 - 3448.6'	BAZ	31275	1.1	0.028opt	20

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-86-19E
PAGE: 7

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au (ppb)	Mo (ppm)
3448.6 - 3450.5'	BAZ, quartz-feldspar veining, pyrite and moly 5%	31276	1.9	0.072opt	556
3450.5 - 3452.9'	BAZ, quartz-feldspar veining	31277	2.4	0.006opt	2
3452.9 - 3457.2'	BAZ	31278	4.3		2
3457.2 - 3460.0'	BAZ	31279	2.8		4
3460.0 - 3463.0'	BAZ	31280	3.0	7	2
3463.0 - 3466.4'	BAZ	31281	3.4	4	2
3466.4 - 3470.0'	BAZ	31282	3.6	4	2
3470.0 - 3474.1'	BAZ, local concentrations of coarse pyrite	31283	4.1	12	-
3474.1 - 3477.3'	Sericitic, light green "BAZ", trace coarse pyrite	31284	3.2		4
3477.3 - 3480.0'	Sericitic BAZ, grading to orange, trace coarse pyrite	31285	2.7	8	2
3480.0 - 3483.9'	BAZ, pale orange to grey, trace coarse pyrite	31286	3.9	11	2
3483.9 - 3488.4'	Grey-green "BAZ"	31287	3.5		2
3488.4 - 3492.2'	Grey-green "BAZ"	31288	3.8	12	-
3492.2 - 3496.1'	Grey-orange BAZ	31289	3.9	34	2
3496.1 - 3500.0'	Orange BAZ grading to light green (sericitic)	31290	3.9	7	2
3500.0 - 3505.0'	Sericitic "BAZ". 0.5' green spotted dike	31291	5.0		6
3505.0 - 3510.0'	Light orange BAZ	31292	5.0	7	4
3510.0 - 3515.0'	Light orange BAZ	31293	5.0		4
3515.0 - 3520.0'	Light orange BAZ grading to grey-green	31294	5.0	32	2
3520.0 - 3525.0'	Green to orange BAZ	31295	5.0	6	4
3567.7 - 3568.9'	Mafic volcanics, minor albite veinlets at contact with dike	31296	1.2	4	2
3568.9 - 3569.8'	Dike, feldspar phenocrysts, with minor albite veinlets	31297	0.9	23	2
	Testing Anomalous Sludge Zones				
2168.6 - 2170'	0.8' wide mauve coloured dike; quartz stringers on contacts	31298	1.4		
2252.3 - 2254.8'	Conglomerate	31299	2.5		
2356.0 - 2360.4'	Conglomerate	31300	4.4		
2360.4 - 2365.4'	Conglomerate	31301	5.0		

DRILL LOG

HOLE: N-86-19F
PAGE: 1

NEWFIELDS MINERALS, INC. - KIRKLAND BASIN PROJECT

STRIKE: LOCATION:
DIP: DATE DRILLED: Aug. 4 - Aug. 21, 1986
LOGGED BY: T. Twomey, M. Masson
DRILLED BY: Heath & Sherwood Drilling
PURPOSE:

FOOTAGE	DESCRIPTION
	Steel wedge at 2870'.
2881 - 3844'	KINOJEVIS VOLCANICS
	Dark-green, feldspar-phyric, non-magnetic.
2881 - 2930'	Abundant calcite veinlets in carbonatized volcanics.
2930 - 2956.3'	Becomes silicified, no calcite; volcanic a steel grey-green colour.
2956.3 - 2977'	GREY DIKE - highly deformed, schistose, with numerous quartz-albite veinlets and green spots (chlorite), 1% pyrite. Both contacts obscured by quartz veining. 2975 - 2977' - ground core.
2977 - 3509'	BROWN-ALTERED ZONE - foliated at 15 - 20 degrees to CA.
2977 - 2989'	Colour grades from green to brown, with quartz veining and approximately 3% coarse cubic pyrite throughout.
3017.2 - 3018.2'	GREY DIKE - highly deformed, schistose. Quartz veining at contacts, CA = 45 degrees.
3020 - 3040'	Schistosity at 10 degrees to CA.
3053.5 - 3056.0'	GREY DIKE - highly deformed, schistose. Contacts at 15 and 10 degrees to CA respectively, with quartz-albite stringers.
3079.7 - 3082.5'	GOLD ZONE - quartz-albite-pyrite-molybdenum in BAZ. Sheared veining at 30 - 15 degrees to CA. 3080.7 - 3081' - altered dike, contacts at 40 degrees to CA.
3084.5 - 3097.0'	GREY DIKE - brown-altered, sheared. Contacts at 12 degrees to CA.
3137 - 3190'	BAZ with sections of quartz-albite veining, with 5% coarse pyrite; at 40 - 10 degrees to CA.

FOOTAGE	DESCRIPTION
	KINOJEVIS VOLCANICS (cont'd)
3224 - 3225'	GREY DIKE - sheared, contacts at 45 degrees to CA.
3260 - 3263'	Pyrite-filled fractures at 10 degrees to CA.
3278 - 3287'	Quartz stockwork, in BAZ, at low angles to CA, with less than 1% pyrite.
3306.5 - 3308.7'	GREEN-SPOTTED DIKE - with quartz veinlets; contacts at 30 and 20 degrees to CA.
3309 - 3313'	BAZ, with quartz veinlets at 15 degrees to CA.
3414 - 3479'	Intercalated dark green (less altered) zones within BAZ.
3479'	Grades into BAZ.
3479 - 3509'	BAZ.
3509	MAFIC VOLCANICS, dark green, equivalent of BAZ.
3529.1 - 3531.9'	LOWER GOLD ZONE - quartz-pyrite-molybdenum, CA = 20 degrees.
3531.9 - 3536'	Two 1 cm wide quartz-pyrite-molybdenum veinlets, CA = 10 and 30 degrees respectively in green mafic volcanics.
3626.5 - 3642.8'	INTERMEDIATE DIKE - with reddish feldspar phenorysts; upper contact at 40 degrees, lower at 30 degrees to CA.
3642.8 - 3644.2'	Narrow quartz-albite stringers with 2% pyrite in brown-altered walls adjacent.
3659 - 3684.7'	Slightly brown-altered mafic volcanics.
3684.7 - 3686.7'	GREEN-SPOTTED DIKE - contacts at 40°.
3686.7 - 3691.6'	Slightly brown-altered mafic volcanics.
3691.6 - 3700.5'	GREY DIKE - contacts at 30°, with reddish feldspar phenocrysts.
3727.7 - 3729'	GREEN-SPOTTED DIKE - light green-sericitic with anhedral chlorite/sericite clots. Upper contact at 030 degrees to CA, lower contact at 045 degrees, marked by narrow 1 inch quartz vein.

FOOTAGE	DESCRIPTION
	KINOJEVIS VOLCANICS (cont'd)
3776 - 3782'	BAZ - quartz-albite veining in medium-grained Fe tholute to give moderate BAZ development.
3791 - 3797.4'	GREEN-SPOTTED DIKE - fine-to-medium-grained, sub-euhedral augite in a very-fine-grained grey-green matrix. Upper contact at 022 degrees to CA, marked by 1 cm quartz-albite veinlet. Lower contact is irregular at 035 degrees.
3797.4 - 3844'	MAFIC VOLCANICS - medium-grained Fe tholeiite, massive with distinctive texture and high magnetism.
3844.0'	END OF HOLE

BORE HOLE DATA BH NO. N-86-19F

DATE 1986	DEPTH (feet)	ACID TEST	WEDGE TOP	WEDGE TYPE	AZIMUTH (degrees)	DIP (degrees)	
Aug 4	2881		2855.5	Steel parent	350	-72.5	Start of Hole - Right Azimuth wedge
Aug 7	2988				350	-72	
Aug 21	3450				338	-65	
Aug 21	3604				330	-62	
Aug 21	3844					-60	EOH - 3844

SIGNED:

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-86-19F
PAGE: 1

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au PPB	Mo PPM
2952.0 - 2956'	Mafic volcanics with numerous quartz-albite veinlets	31302	4.0	67	4
2956.0 - 2957.1'	Quartz veining at contact of volcanics and dike	31303	1.1	7	2
2957.1 - 2962.8'	Grey dike, minor quartz veinlets and less than 1% pyrite	31304	5.7	3	4
2962.8 - 2966.8'	As above	31305	4.0	4	2
2966.8 - 2971.5'	As above, ground core 50%	31306	4.7	10	2
2971.5 - 2973.8'	As above	31307	2.3	41	2
2973.8 - 2977.2'	As above, ground up 50%	31308	3.4	167	4
2977.2 - 2981.5'	BAZ, green coloured, quartz veining and 3% pyrite	31309	4.3	679	8
2981.5 - 2985.4'	As above	31310	3.9	56	2
2985.4 - 2990'	BAZ, colour change from green to brown	31311	4.6	6	2
2990.0 - 2995'	BAZ, brown colour	31312	5.0	4	2
2995 - 3000'	BAZ	31313	5.0	19	8
3000 - 3005'	BAZ	31314	5.0	6	2
3005 - 3010.0'	BAZ	31315	5.0	3	4
3010.0 - 3013.8'	BAZ	31316	3.8	3	2
3013.8 - 3016.1'	BAZ, 30% quartz-albite veinlets	31317	2.3	3	4
3016.1 - 3017.8'	Contact of BAZ/dike with 30% quartz veining	31318	1.7	4	4
3017.8 - 3020.0'	Other contact dike/BAZ	31319	2.2	29	6
3020 - 3025'	BAZ	31320	5.0	4	4
3025 - 3030'	BAZ	31321	5.0	4	2
3030 - 3031.8'	BAZ, 40% quartz veining containing chlorite	31322	1.8	3	6
3031.8 - 3035'	BAZ	31323	3.2	4	6
3035 - 3040'	BAZ	31324	5.0	4	2
3040 - 3045'	BAZ	31325	5.0	3	2
3045 - 3051.0'	BAZ	31326	6.0	8	nil
3051 - 3053.7'	Contact of BAZ/dike, with 50% quartz-albite veining	31327	2.7	12	6
3053.7 - 3055.7'	Grey dike	31328	2.0	15	4
3055.7 - 3057.9'	Contact dike/BAZ, with 20% quartz-albite veining	31329	2.2	68	4
3057.9 - 3060'	BAZ	31330	2.1	9	2

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-86-19F
PAGE: 2

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au PPB	Mo PPM
3060 - 3065'	BAZ	31331	5.0	11	2
3065 - 3070'	BAZ	31332	5.0	49	2
3070 - 3075'	BAZ	31333	5.0	6	2
3075.0 - 3078.7'	BAZ	31334	3.7	4	nil
3078.7 - 3079.7'	BAZ, 1% pyrite	31335	1.0	0.254 opt	24
3079.7 - 3082.5'	Gold Zone; quartz-albite-pyrite-molybdenum stringers in BAZ	31336	2.8	0.138 opt	262
3082.5 - 3084.5'	BAZ	31337	2.0	82	12
3084.5 - 3088.6'	Grey Dike; brown-altered and sheared	31338	4.1	34	4
3088.6 - 3092.6'	As above	31339	4.0	15	4
3092.6 - 3097'	As above	31340	4.4	8	2
3097.0 - 3100'	BAZ	31341	3.0	6	2
3100 - 3105'	BAZ, minor quartz veining	31342	5.0	10	2
3105 - 3110'	BAZ	31343	5.0	8	2
3110 - 3115'	BAZ	31344	5.0	17	8
3115 - 3120'	BAZ	31345	5.0	10	2
3120 - 3125'	BAZ	31346	5.0	3	2
3125 - 3130'	BAZ	31347	5.0	32	2
3130 - 3135'	BAZ	31348	5.0	4	2
3135 - 3136.3'	BAZ	31349	1.3	4	2
3136.3 - 3137.7'	50% quartz with disseminated pyrite in BAZ	31350	1.4	37	4
3137.7 - 3143'	BAZ	31451	5.3	12	8
3143 - 3147'	BAZ, 30% quartz veining	31452	4.0	5	4
3147 - 3152'	BAZ	31453	5.0	7	4
3152 - 3155.6'	BAZ	31454	3.6	11	4
3155.6 - 3157.7'	BAZ, quartz veining with 5% coarse pyrite, 10 degrees to CA	31455	2.1	104	2
3157.7 - 3160.5'	BAZ, 50% quartz vein, less than 1% pyrite	31456	2.8	16	2
3160.5 - 3164.2'	Quartz-albite vein, 1% pyrite	31457	3.7	92	2
3164.2 - 3167.6'	BAZ, 20% quartz veinlets	31458	3.4	69	2
3167.6 - 3172'	BAZ	31459	4.4	5	4
3172 - 3177'	BAZ	31460	5.0	174	2
3177 - 3182'	Quartz-albite stockwork in BAZ, 1% pyrite	31461	5.0	19	2
3182 - 3185.5'	As above, 1% pyrite	31462	3.5	79	2
3185.5 - 3189.7'	As above, with pyrite veinlet, 5% pyrite	31463	4.2	256	2
3189.7 - 3192.7'	BAZ	31464	3.0	14	nil

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-86-19F
PAGE: 3

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au PPB	Mo PPM
3192.7 - 3197'	BAZ	31465	4.3	4	2
3197.0 - 3202'	BAZ	31466	5.0	10	4
3202 - 3207'	BAZ	31467	5.0	4	4
3207 - 3212'	BAZ	31468	5.0	4	4
3212 - 3217'	BAZ	31469	5.0	7	4
3217 - 3222'	BAZ	31470	5.0	8	2
3222 - 3227'	BAZ	31471	5.0	4	4
3227 - 3232'	BAZ, specular hematite	31472	5.0	7	2
3232 - 3237'	BAZ, specular hematite	31473	5.0	7	2
3237 - 3242'	BAZ, specular hematite	31474	5.0	8	2
3242 - 3246'	BAZ	31475	4.0	13	4
3246 - 3251'	BAZ	31476	5.0	48	2
3251 - 3256'	BAZ	31477	5.0	8	2
3256 - 3261'	BAZ, 1% disseminated pyrite	31478	5.0	41	8
3261 - 3266'	BAZ, 1/2-inch wide pyrite filled fracture	31479	5.0	49	12
3266 - 3271'	BAZ	31480	5.0	11	4
3271 - 3276'	BAZ	31481	5.0	12	4
3276 - 3278.7'	BAZ, quartz veinlet	31482	2.7	8	2
3278.7 - 3283.5'	Quartz stockwork in BAZ, less than 1% pyrite	31483	4.8	36	2
3283.5 - 3287.3'	As above	31484	3.8	25	2
3287.3 - 3291'	BAZ, quartz veining	31485	3.7	3	2
3291 - 3296'	As above	31486	5.0	60	2
3296 - 3301'	As above	31487	5.0	4	2
3301 - 3306.2'	As above	31488	5.2	30	2
3306.2 - 3309.2'	Green-spotted dike with BAZ, quartz on contacts	31489	3.0	7	2
3309.2 - 3314.1'	BAZ, with quartz veining at 15 degrees to CA	31490	4.9	19	2
3314.1 - 3319.1'	BAZ	31491	5.0	30	2
3319.1 - 3323'	BAZ, 40% quartz-albite veining, 1 - 3% pyrite, chalcopyrite	31492	3.9	30	2
3323 - 3325.3'	BAZ	31493	2.3	7	2
3325.3 - 3326.6'	BAZ, 0.9-foot wide quartz vein at 40 degrees to CA, with 5% pyrite	31494	1.3	36	4
3326.6 - 3331.6'	BAZ	31495	5.0	48	2
3331.6 - 3337'	BAZ	31496	5.4	63	2
3337 - 3342'	BAZ	31497	5.0	10	2
3342 - 3347'	BAZ	31498	5.0	8	2
3347 - 3352'	BAZ	31499	5.0	8	4
3352 - 3357'	BAZ	31500	5.0	48	2

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-86-19F
PAGE: 4

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au PPB	Mo PPM
3357 - 3362'	BAZ	30901	5.0	4	4
3362 - 3367'	BAZ	30902	5.0	8	4
3367 - 3372'	BAZ	30903	5.0	4	4
3372 - 3377'	BAZ	30904	5.0	2	6
3377 - 3382'	BAZ	30905	5.0	6	6
3382 - 3387'	BAZ	30906	5.0	2	nil
3387 - 3392'	BAZ	30907	5.0	2	2
3392 - 3397'	BAZ	30908	5.0	2	2
3397 - 3402'	BAZ	30909	5.0	4	2
3402 - 3407'	BAZ	30910	5.0	7	2
3407 - 3412'	BAZ	30911	5.0	10	2
3412 - 3417'	BAZ	30912	5.0	60	2
3417 - 3422'	BAZ	30913	5.0	12	2
3422 - 3427'	Grades out of BAZ, into green-coloured equivalent	30914	5.0	7	4
3427 - 3432'	Dark-green volcanic, equivalent of BAZ	30915	5.0	99	4
3432 - 3437'	As above	30916	5.0	56	4
3437 - 3442'	As above	30917	5.0	8	4
3442 - 3447'	As above	30918	5.0	8	2
3447 - 3452'	As above	30919	5.0	21	4
3452 - 3457'	As above	30920	5.0	44	4
3457 - 3462'	As above	30921	5.0	4	2
3462 - 3467'	As above	30922	5.0	14	
3467 - 3472'	As above	30923	5.0	8	
3472 - 3477'	As above	30924	5.0	4	
3477 - 3482'	Grades into BAZ	30925	5.0		
3482 - 3486'	BAZ	30926	4.0	45	
3486 - 3491'	BAZ	30927	5.0	19	
3491 - 3496'	BAZ	30928	5.0		
3496 - 3499.6'	BAZ	30929	3.6		
3499.6 - 3502.7'	BAZ, with quartz veining at 45 and 30 degrees to CA, less than 1% pyrite	30930	3.1	44	4
3502.7 - 3504.2'	BAZ	30931	1.5	11	4
3504.2 - 3506'	BAZ, with quartz-albite veining, less than 1% pyrite; black chlorite	30932	1.8	4	4
3506 - 3511'	BAZ, grades into dark-green volcanics	30933	5.0	6	4
3511 - 3516'	Dark-green volcanics	30934	5.0	49	2
3516 - 3521'	As above	30935	5.0	10	6
3521 - 3526'	As above	30936	5.0	6	6
3526 - 3529.1'	As above, less than 1% pyrite	30937	3.1	51	2

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-86-19F
PAGE: 5

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au PPB	Mo PPM
3529.1 - 3531.9'	Lower Gold Zone, quartz-pyrite-molybdenum, Ca = 20 degrees	30938	2.8	.086opt	524
3531.9 - 3536'	Two 1-cm wide quartz-pyrite-molybdenum veinlets, CA = 10 degrees and 30 degrees	30939	4.1	352	26
3536 - 3541'	Dark-green mafic volcanics	30940	5.0	6	4
3541 - 3546'	As above	30941	5.0	3	4
3546 - 3551'	As above	30942	5.0	2	2
3551 - 3556'	As above	30943	5.0	2	4
3566.6 - 3570.8'	As above	30944	4.2		
3591.3 - 3593.1'	As above, with 3-inch wide quartz-albite veinlet	30945	1.8		
3625.0 - 3626.5'	Mafic volcanics, above intermediate dike	30946	1.5		
3644.2 - 3645.9'	Quartz-albite stringers with disseminated pyrite, (less than 1%) in brown walls	30947	1.7		
3659.3 - 3663.3'	Slightly altered mafic volcanics, light grey colour	30948	4.0		
3677.0 - 3681.6'	Slight brown-altered mafic volcanics; narrow dikes	30949	4.6		
3681.0 - 3684.7'	As above, with 3-inch wide white quartz vein	30950	3.1		
3684.7 - 3686.8'	Green-spotted dike, with minor volcanic inclusion	30951	2.1		
3686.8 - 3691.6'	Slightly brown-altered mafic volcanics	30952	4.8		
3691.6 - 3697.8'	Grey Dike	30953	6.2		
3776 - 3781'	BAZ, moderately developed alteration with quartz-albite veining	30954	5.0	nil	4

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-86-19F
PAGE: 6

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au PPB	Mo PPM
	TESTING ANOMALOUS SLUDGE ZONES				
3586 - 3590.3'	Green mafic volcanics with BAZ texture	31398	4.3	nil	
3592.1 - 3596'	As above	31399	3.9	nil	
3596 - 3601'	As above	31400	5.0	nil	

SIGNED:

DRILL LOG HOLE: N-86-19G
PAGE: 1

NEWFIELDS MINERALS, INC. - KIRKLAND BASIN PROJECT

STRIKE: LOCATION:
DIP: DATE DRILLED: Aug 21 - Oct 4, 1986
LOGGED BY: T. Twomey, M. Masson
DRILLED BY: Heath & Sherwood Drilling
PURPOSE:

FOOTAGE	DESCRIPTION
	Wedge at 1482'
1502 - 1677'	MAFIC SYENITE Massive, fine-to-medium-grained, green-red colour, very magnetic. Contact zone is green, fractured leucoxene and albite rich; some coarse, euhedral pyrite, less than 0.5%.
1677 - 2789.2'	TEMISKAMING SEDIMENTS Conglomerate - coarse-grained pebble-cobble conglomerate; pebble elongation from 0 - 15 degrees to CA (may cause hole to wander). 2085 - 2095' Blocky core - chlorite fractures parallel to CA. 2496 - 2670' SERICITIC ZONE - pale-green colouration - alteration with minor green mica and quartz-albite veinlets, in conglomerate; pebble elongation at 20 degrees to CA. 2553.5 - 2569' Deformed zone - schistose, very elongated, conglomerate with brecciated quartz-albite veining. 2670 - 2695' Grades out of sericitic alteration, loss of veining and green mica. 2774 - 2789.2' Conglomerate is mafic composition, disconformable erosion contact with basement.

FOOTAGE	DESCRIPTION
2789.2 - 3986'	KINOJEVIS VOLCANICS
	Dark blue-green colour, feldspar-phyric, non-magnetic, carbonatized.
	2795.2 - 2824' Numerous quartz-albite veins.
	2825 - 2879' Massive, feldspar-phyric mafic volcanics; dark-green round feldspar crystals.
	2879 - 2975' Blue-green mafic volcanics with typical elongated feldspar crystals, elongation at 25 - 15 degrees to CA.
	2975 - 2983.9' Highly deformed mafic volcanic with numerous quartz-albite veinlets, schistose at 30 degrees to CA.
	2983.9 - 3011.2' GREEN-SPOTTED DIKE - green alteration spots in a very-fine-grained clayey, grey matrix, upper contact at 25 degrees to CA, schistose at 25 - 10 degrees to CA, lower contact sheared, obscured by quartz veining.
	3011.2 - 3023' Leucoxene-spotted black volcanic grading into BAZ at 3023'.
	3023 - 3558' BROWN-ALTERED ZONE (BAZ) Gradational contact with volcanics.
	3023 - 3076' Intercalated BAZ and mafic volcanics, alteration varies from weak to intense, moderately to strongly foliated at 10 - 20 degrees to CA.
	3091 - 3097' GREEN SPOTTED DIKE - light grey-green, fine-grained and spotty in places, Upper Contact broken, Lower Contact at 25 degrees to CA and marked by quartz-albite veining.
	3123.2 - 3128.4' GREEN-SPOTTED DIKE - fine-grained grey clayey matrix, schistose.
	3138.0 - 3140.2' SPECULAR HEMATITE - bounded by quartz-albite veinlets at 20 degrees to CA, but zone is foliated parallel to CA; consists of specularite and pyrite in BAZ.
	3148.0 - 3149.2' Quartz vein with 2 - 3% pyrite, trace molybdenum(?) in BAZ.

FOOTAGE	DESCRIPTION
	KINOJEVIS VOLCANICS (cont'd)
3167.5 - 3169'	GREEN-SPOTTED DIKE - contacts at 15 degrees to CA, with quartz and pyrite.
3174 - 3179'	Quartz stockwork in BAZ, less than 1% pyrite.
3190 - 3191.3'	Quartz vein with 2 - 3% pyrite and chalcopyrite, in BAZ.
3200.7 - 3203.2'	GREEN-SPOTTED DIKE - with numerous quartz-albite veinlets and 1% disseminated pyrite.
3206.5 - 3214'	GREEN-SPOTTED DIKE.
3214 - 3223'	DARK-GREEN MAFIC VOLCANICS - with BAZ texture, some foliation sub-parallel to CA.
3223'	Grades back to BAZ.
3234.7 - 3239.1'	GREEN-SPOTTED DIKE.
3259.2 - 3260.1'	GOLD ZONE - quartz-molybdenum-pyrite at 20 degrees to CA.
3276.3 - 3329.2'	GOLD ZONE - convoluted quartz veining with pyrite and molybdenum, in BAZ.
3414 - 3434'	Dark-green volcanics, same texture and gradational contacts to BAZ.
3434 - 3463'	BAZ.
3463 - 3481'	Dark-green volcanics, as before.
3481 - 3504'	BAZ.
3504 - 3516'	Dark-green volcanics, as before.
3516 - 3558'	BAZ.
3558 - 3638'	Dark-green volcanics, as before.
3638 - 3656.8'	GREY DIKE - with reddish feldspar phenocrysts, upper contact at 45 degrees to CA.
3656.8 - 3693.5'	Dark-green volcanics, as before.
3693.5 - 3707.8'	BROWN-ALTERED DIKE - with some altered volcanics, quartz vein at upper contact with green volcanics, quartz veinlets throughout.
3707.8 - 3729'	Dark-green volcanics, as before.
3729 - 3731'	Quartz-albite brecciation in medium-grained mafic volcanics, Kinojevis volcanics are ubiquitously carbonitized - calcium carbonate and with narrow quartz-albite veining.

FOOTAGE	DESCRIPTION
	KINOJEVIS VOLCANICS (cont'd)
3886.5 - 3893'	GREEN-SPOTTED DIKE - upper contact marked by quartz-albite veining with a pale red-brown colour of alteration in dike. Ground-mass is very-fine-grained - aphanitic, blue-grey rhyolitic. Phenocrysts are pale green, subhedral to colloform representing alteration of pre-existing phenocrysts to chlorite/sericite.
3893 - 3922'	Dark-green volcanics, as before.
3922 - 3927'	Green-spotted Dike.
3927 - 3951'	Medium-grained dark-green volcanics, as before.
3951 - 3970'	Saussuritized gabbro.
3970 - 3986'	Medium-grained dark-green volcanics, as before.
3986'	END OF HOLE

FOOTAGE DESCRIPTION

BOREHOLE DATA BH NO. N-86-19G

DATE (1986)	DEPTH (feet)	ACID TEST	WEDGE TOP	WEDGE TYPE	AZIMUTH (degrees)	DIP (degrees)	
Aug 21	1500			Steel			Right full wedge off parent
Aug 23	1558			Retriev.			Right full wedge
Aug 25	1644			Retriev.			2 Retriev. wedges lost, 1 sheared of the other reamer jammed
Aug 29	1602			Steel			2 Steel wedges - first one lost
Aug 30	1716				011	-82	
Sept 1	2004				351	-82	
Sept 1	2009			Retriev.			Right full wedge
Sept 4	2105			Retriev.			Up & 40 degrees to right
Sept 5	2142				357	-81.5	
Sept 6	2220				353	-81.5	
Sept 6	2229			Retriev.			Shallowing with 15 degrees RAZ
Sept 7	2284				350	-80	
Sept 8	2375			Retriev.			Right wedge & 20 degrees up
Sept 10	2475				350	-78.5	
Sept 10	2485			Retriev.			Right full wedge
Sept 12	2541				355	-78.5	Non-magnetic conglomerate
Sept 13	2593					-78	
Sept 16	2757				355	-74	Non-magnetic conglomerate
Sept 16	2764			Retriev.			Shallowing
Sept 18	2899			Retriev.		-72	Shelving in Kinojevis
Sept 20	3048				340	-70	In BAZ
Oct 4	3275				340	-68	BAZ
Oct 4	3525				337	-66	BAZ
Oct 4	3725				330	-58	
Oct 4	3986						END OF HOLE

SIGNED:

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-86-19G
PAGE: 1

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH (feet)	Au PPB	Mo PPM
1172 - 1677'	Contact zone between Mafic Syenite and Conglomerate	30956	5.0	nil	nil
1677 - 1672'	As above	30957	5.0	nil	4
2477.1 - 2478.1'	Quartz-albite veinlets in conglomerate	30958	1.0	120	10
2507.8 - 2509'	Quartz-albite veinlets in sericitic altered conglomerate	30959	1.2	nil	
2559.5 - 2563.0'	Deformed, sericitic conglomerate with brecciated quartz-albite veins	30960	3.5	nil	
2563.0 - 2565.0'	As above	30961	2.0	nil	
2553.6 - 2555.4'	As above	30962	1.8	nil	
2795.2 - 2797.3'	Quartz-albite veins in	30963	2.1	nil	3
2800.4 - 2802'	As above	30964	1.6	nil	3
2814.9 - 2819'	As above	30965	5.1	nil	4
2819 - 2823.2'	As above	30966	4.2	20	3
2975 - 2980'	Deformed mafic volcanics with numerous quartz-albite veinlets	30967	5.0	nil	
2980 - 2983.9'	As above	30968	3.9	nil	
2983.9 - 2988.6'	Green-spotted dike at upper contact	30969	4.7	nil	
3009.6 - 3012.1'	Brecciated quartz-albite veinlets at dike/volcanic contact	30970	2.5	140	
3023 - 3028'	Moderate to strong BAZ in mafic (leucoxene) volcanics	30971	5.0	nil	
3041 - 3046'	BAZ	30972	5.0	nil	
3046 - 3051'	BAZ - weak alteration with sericite-leucoxene	30973	5.0	nil	
3051 - 3056'	BAZ	30974	5.0	nil	
3056 - 3061'	BAZ	30975	5.0	nil	
3061 - 3066'	BAZ	30976	5.0	nil	
3066 - 3071'	BAZ	30977	5.0	nil	
3071 - 3076'	BAZ	30978	5.0	nil	
3076 - 3081'	BAZ	30979	5.0	nil	
3081 - 3086'	BAZ	30980	5.0	770	
3086 - 3091'	BAZ	30981	5.0	1620	
3091 - 3097'	Green-spotted dike in BAZ	30982	6.0	20	

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-86-19G
PAGE: 2

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au PPB	Mo PPM
3097 - 3102'	BAZ	30983	5.0	nil	
3102 - 3107'	BAZ	30984	5.0	nil	
3107 - 3112'	BAZ	30985	5.0	nil	
3112 - 3117'	BAZ	30986	5.0	nil	
3117 - 3122'	BAZ	30987	5.0	10	
3122 - 3123.2'	BAZ	30988	1.2	nil	
3123.2 - 3128.4'	Green-Spotted Dike	30989	5.2	nil	
3128.4 - 3132.7'	BAZ	30990	4.3	40	
3132.7 - 3136.7'	BAZ	30991	4.0	nil	
3136.7 - 3138'	BAZ	30992	1.3	nil	
3138 - 3140.2'	BAZ, abundant specularite, hematite and 1% pyrite	30993	2.2	nil	
3140.2 - 3143'	BAZ	30994	2.8	40	
3143 - 3148'	BAZ, less than 1% pyrite	30995	5.0	30	
3148 - 3149.2'	Quartz vein with 1 - 3% pyrite, trace moly?, in BAZ	30996	1.2	nil	
3149.2 - 3154'	BAZ	30997	4.8	50	
3154 - 3159'	BAZ	30998	5.0	nil	
3159 - 3164'	BAZ	30999	5.0	40	
3164 - 3166.7'	BAZ	31000	2.7	30	
3166.7 - 3169'	BAZ	5601	2.3	500	
3169 - 3174'	BAZ	5602	5.0	100	
3174 - 3179'	Quartz stockwork in BAZ, less than 1% pyrite	5603	5.0	30	
3179 - 3185'	BAZ, minor quartz veins, less than 1% pyrite on margins	5604	6.0	60	
3185 - 3190'	As above	5605	5.0	50	
3190 - 3191.3'	Quartz vein with 2 - 3% pyrite and chalcopyrite, in BAZ	5606	1.3	70	
3191.3 - 3195.7'	BAZ	5607	4.4	30	
3195.7 - 3200.7'	BAZ	5608	5.0	10	
3200.7 - 3203.2'	Green-spotted dike, 1% pyrite with numerous quartz-albite veins	5609	2.5	40	
3203.2 - 3206.2'	BAZ, with quartz-albite veinlets and 1% pyrite on margins	5610	3.0	nil	
3206.2 - 3209.6'	Green-spotted dike	5611	2.4	60	
3209.6 - 3214'	As above	5612	4.4	nil	
3214 - 3218'	Dark-green mafic volcanics, BAZ texture	5613	4.0	30	
3218 - 3223'	As above	5614	5.0	20	
3223 - 3228'	BAZ	5615	5.0	nil	

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-86-19G
PAGE: 3

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au PPB	Mo PPM
3228 - 3233'	BAZ	5616	5.0	20	
3233 - 3234.7'	BAZ	5617	1.7	nil	
3234.7 - 3239.3'	Green-spotted dike	5618	4.6	nil	
3239.3 - 3243'	BAZ	5619	3.7	nil	
3243 - 3248'	BAZ	5620	5.0	nil	
3248 - 3253'	BAZ	5621	5.0	nil	
3253 - 3257.2'	BAZ	5622	4.2	nil	
3257.2 - 3259.2'	BAZ	5623	2.0	100	
3259.2 - 3260.1'	Gold Zone - quartz-moly-py	5624	0.9	1870(.06opt)	
3260.1 - 3261.3'	BAZ	5625	1.2	50	
3261.3 - 3265.0'	BAZ	5626	3.7	140	
3265 - 3270'	BAZ	5627	5.0	20	
3270 - 3273.8'	BAZ	5628	3.8	nil	
3273.8 - 3276.3'	Quartz stockwork at 30 degrees to CA, in BAZ	5629	2.5	nil	
3276.3 - 3279.2'	Gold Zone - convoluted quartz veining with moly, pyrite	5630	2.9	590	
3279.2 - 3283'	BAZ, with quartz veining	5631	3.8	nil	
3283 - 3287.9'	Quartz stockwork in BAZ, less than 1% pyrite	5632	4.9	20	
3287.9 - 3293'	BAZ, minor quartz/albite	5633	5.1	nil	
3293 - 3298'	BAZ, slightly hematized	5634	5.0	nil	
3298 - 3303'	BAZ	5635	5.0	nil	
3303 - 3308'	BAZ, weakly hematized, with minor quartz veining	5636	5.0	nil	
3308 - 3313'	BAZ	5637	5.0	nil	
3313 - 3318'	BAZ	5638	5.0	nil	
3318 - 3323'	BAZ	5639	5.0	nil	
3323 - 3328'	BAZ	5640	5.0	nil	
3328 - 3333'	BAZ	5641	5.0	nil	
3333 - 3338'	BAZ, hematized	5642	5.0	nil	
3338 - 3343'	BAZ	5643	5.0	nil	
3343 - 3348'	BAZ	5644	5.0	nil	
3348 - 3353'	BAZ	5645	5.0	nil	
3353 - 3358'	BAZ	5646	5.0	nil	
3358 - 3363'	BAZ	5647	5.0	nil	
3363 - 3368'	BAZ	5648	5.0	nil	
3368 - 3373'	BAZ	5649	5.0	nil	
3373 - 3378'	BAZ	5650	5.0	nil	
3378 - 3383'	BAZ	5651	5.0	nil	
3383 - 3388'	BAZ	5652	5.0	nil	
3388 - 3393'	BAZ	5653	5.0	nil	
3393 - 3398'	BAZ	5654	5.0	nil	
3398 - 3403'	BAZ	5655	5.0	nil	

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-86-19G
PAGE: 4

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au PPB	Mo PPM
3403 - 3406'	BAZ	5656	3.0	nil	
3406 - 3409'	BAZ	5657	3.0	nil	
3409 - 3414'	BAZ	5658	5.0	nil	
3414 - 3419'	Dark-green volcanics, BAZ texture	5659	5.0	nil	
3419 - 3424'	As above	5660	5.0	nil	
3424 - 3429'	As above	5661	5.0	nil	
3429 - 3434'	As above	5662	5.0	nil	
3434 - 3439'	BAZ	5663	5.0	nil	
3439 - 3444'	BAZ	5664	5.0	nil	
3444 - 3449'	BAZ	5665	5.0	nil	
3449 - 3454'	BAZ	5666	5.0	nil	
3454 - 3459'	BAZ	5667	5.0	nil	
3459 - 3464'	BAZ	5668	5.0	nil	
3464 - 3469'	Dark-green volcanics	5669	5.0	nil	
3469 - 3474'	As above	5670	5.0	nil	
3474 - 3479'	As above	5671	5.0	nil	
3479 - 3484'	Green-volcanics grading into BAZ	5672	5.0	nil	
3484 - 3489'	BAZ	5673	5.0	nil	
3489 - 3494'	BAZ	5674	5.0	nil	
3494 - 3499'	BAZ	5675	5.0	nil	
3499 - 3504'	BAZ	5676	5.0	nil	
3504 - 3512'	Dark-green volcanics	5677	8.0	nil	
3512 - 3517'	Green-volcanics grading into BAZ	5678	5.0	nil	
3517 - 3522'	BAZ	5679	5.0	nil	
3522 - 3527'	BAZ, minor coarse pyrite (less than 1%)	5680	5.0	20	
3527 - 3532'	BAZ	5681	5.0	nil	
3532 - 3538'	BAZ	5682	6.0	nil	
3538 - 3543'	BAZ	5683	5.0	nil	
3543 - 3548'	BAZ	5684	5.0	nil	
3548 - 3553'	BAZ	5685	5.0	nil	
3553 - 3558'	BAZ, grading out, into dark-green	5686	5.0	nil	
3558 - 3563'	Dark-green volcanics	5687	5.0	10	
3563 - 3568'	As above	5688	5.0	nil	
3693.0 - 3694.6'	Quartz veining at contact of volcanics/dike	5689	1.6	30	
3694.6 - 3699.2'	Brown-altered dike (plus green spots) with quartz veinlets	5690	4.6	nil	

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-86-19G
PAGE: 5

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au PPB	Mo PPM
3699.2 - 3702'	As above	5691	2.8	70	
3702 - 3707.3'	As above	5692	5.3	nil	
	TESTING ANOMALOUS SLUDGE ZONES NOT PREVIOUSLY SAMPLED				
3568 - 3573'	Dark-green volcanics	5693	5.0	nil	
3573 - 3578'	As above	5694	5.0	nil	
3578 - 3583'	As above	5695	5.0	925	
	CHECKING ANOMALOUS SLUDGE ZONES				
1722.5 - 1727'	Conglomerate	5508	4.5	nil	
1741.5 - 1746.5'	Conglomerate with minor quartz-albite stringers	5509	5.0	nil	
2199 - 2204'	Conglomerate	5510	5.0	nil	
2219 - 2224'	Conglomerate	5511	5.0	20	
2239 - 2244'	Conglomerate	5512	5.0	nil	
2259 - 2260'	Quartz-albite veinlets in conglomerate	5513	1.0	nil	
2280 - 2285'	Conglomerate	5514	5.0	nil	
2300 - 2305'	Conglomerate	5515	5.0	nil	
2330 - 2335'	Conglomerate, minor quartz-albite stringers	5516	5.0	nil	
2358.8 - 2363.8'	Conglomerate	5517	5.0	nil	

SIGNED:

DRILL LOG HOLE: N-86-20
PAGE: 1

NEWFIELDS MINERALS, INC. - KIRKLAND BASIN PROJECT

STRIKE: (Collar) 330 degrees LOCATION:
DIP: -75 degrees DATE DRILLED: May 9 - June 11, 1986
LOGGED BY: J Mucklow, T Twomey
DRILLED BY: Heath & Sherwood Drilling
PURPOSE: Test "Newfields Break" to east

FOOTAGE	DESCRIPTION
0 - 22'	OVERBURDEN - Casing
22 - 622.0'	MAFIC SYENITE
	Melanocratic, massive, medium-grained, magnetic, often carbonatized
	30 - 42.4' BRECCIA ZONE - fault, brecciated and altered mafic syenite (silicified, hematized), fracturing at 30 - 35 degrees to CA
	42.4 - 61' Altered mafic syenite - bleached and silicified
	61.0 - 71.6' Mafic Dike - fine-grained, CA = 55 degrees, magnetic
	71.6 - 89' Hematitic, black-red colour; magnetic, massive, grades out at about 89'
	119 - 120' Blocky
	231 - 232' Blocky
	300 - 303' Blocky core - chlorite slips, CA = 15 degrees
	389 - 390' Blocky
	394 - 400' Blocky core - fractures parallel to CA
	462 - 463' Blocky core
	548' Chlorite-quartz-slip at 20 degrees to CA
	550.5 - 551' Ground core
	611 - 622' Baked contact zone becoming more intense toward contact, altered
622.0 - 1445.7'	BIMODAL PORPHYRY
	770.0 - 867.0' Blocky
	867.2 - 871.7' MAFIC DIKE - very magnetic, porphyritic, black, sharp contacts upper 35 degrees, lower 60 degrees

FOOTAGE	DESCRIPTION
	BIMODAL PORPHYRY (cont'd)
	878.4 - 882.3' INTERMEDIATE DIKE - contacts sharp CA = 50 - 55 degrees
	912.0 - 914.0' Area of fracturing, CA = 50 degrees
	980.0 - 985.0' Minor black xenoliths
	988.0 - 990.0' Ground core
	1001.0 - 1011.0' Fracturing at 5 degrees to 10 degrees to CA
	1048.3 - 1049.2' Inch-wide quartz vein at 45 degrees, bleached zone, 261 ppb Au over 0.9'
	1078.0 - 1079.0' Blocky core
	1129.0 - 1140.0' Hematitic fractures at 45 degrees to CA
	1178.0 - 1200.0' Red, hematitic
	1227.0 - 1229.0' Zone of fracturing; CA = 45 degrees
	1297.0 - 1298.0' Xenolith(?), brecciated texture, dark coloured
	1360.0 - 1363.2' Quartz-feldspar veining with strong alteration (sericite)
	1445.7' Sharp intrusive contact; CA = 30 degrees
1445.7 - 1858.0'	MAFIC SYENITE
	Magnetic, melanocratic, medium-grained, massive
	1473.6 - 1481.7' BIMODAL PORPHYRY DIKE - CA = 30 degrees, minor calcite on lower contact
	1719.0' First felsic rib, becoming increasingly abundant downhole
	1858.0' Contact CA = 65 degrees
1858.0 - 2669.5'	TEMISKAMING SEDIMENTS
	1858.0 - 1910.0' GREYWACKE, bedded, CA = 40 degrees, locally gritty
	1887.8 - 1897.7' INTERMEDIATE DIKE (3054 Zone?) very fine-grained, sericitic to chloritic, numerous quartz stringers
	1910.0 - 2551.0' CONGLOMERATE
	2019.2 - 2019.7' 2-inch-wide quartz vein at 45 degrees to CA, 177 ppb Au over 0.5'
	2221.5 - 2226' Very blocky, sericitic, highly fractured, local quartz-feldspar veinlets - fault

FOOTAGE	DESCRIPTION
	TEMISKAMING SEDIMENTS (cont'd)
2228 - 2405'	Mixed conglomerate with numerous narrow (0.3 - 2.0') lamprophyre dikes commonly with quartz-feldspar veining on one or both contacts; CA = 30 - 40 degrees
2237.4 - 2238.5'	LAMPROPHYRE DIKE - with quartz-feldspar veins on contacts, 113 ppb Au over 1.1'
2408 - 2420'	Becoming increasingly sericitic and deformed, downhole CA = 35 degrees
2420 - 2444'	Sericitic, strongly deformed, local quartz-feldspar stringers
2444 - 2476'	Brecciated conglomerate with quartz-feldspar stringers and filling, local Lamprophyre Dikes at: 2454' - 6"; 2466' - 8"; 2467.7 - 2473.3'; CA = 25 degrees
2530 - 2642'	Strongly elongated; CA = 30 degrees
2551.0 - 2669.5'	GREYWACKE (Basal Tuff?)
2551.0 - 2552.0'	Albitic or siliceous, strongly foliated; CA = 35 - 40 degrees
2553.5 - 2555.7'	Stringer-like albitic alteration in greywacke
2555.7 - 2556.3'	Quartz-feldspar-sericite vein, highly fractured
2556.3 - 2596'	Lightly sericitic
2596.6 - 2600.8'	Strongly foliated (CA = 30 degrees) greywacke with stringers of quartz-feldspar (concordant)
2669'	All rocks foliated at contact at 20 degrees to CA
2669.5 - 3073.2'	KINOJEVIS VOLCANICS
	Greenish-black colour - fine-grained to medium-grained, with altered feldspars, locally porphyritic, carbonated, non-magnetic, well foliated at 25 degrees, abundant chlorite
2757 - 2763'	Porphyritic, feldspar-phyric
2965.2 - 2966.2'	Quartz-breccia vein on dike contact, 155 Au over 1.0'

FOOTAGE	DESCRIPTION
	KINOJEVIS VOLCANICS (cont'd)
	2966.2 - 2969.0' GREEN SPOTTED DIKE - sheared contacts with quartz veining; CA = 25 degrees
	2969.4 - 2970.4' Brecciated quartz vein, 187 ppb Au over 1.4'
	2969 - 3005' Highly deformed, foliated at 25 degrees, with brecciated quartz veining
	2987.4 - 2988.0' Quartz-albite veinlets at 30 degrees in sheared zone, 220 ppb Au over 0.6'
	3006 - 3071' Becoming partially hematized; with red-brown hematized phenocrysts (magnetite?), not magnetic
	3027.0 - 3039.0' GREY INTERMEDIATE DIKE - with feldspar phenocrysts, contacts at 20 degrees to CA
	3064 - 3072.8' Sheared and hematitic; CA = 30 degrees
	3072.8 - 3073.2' BROWN DIKE - very fine-grained, laminated (mylonitic?), CA = 34 degrees
3073.2 - 3132.7'	BASAL TUFF
	Dominantly sand-sized grains, generally fine-grained yellowish sericitic schist with quartz veinlets Highly deformed folded, schistose at 25 degrees to CA
	3074.5 - 3093' Purplish-brown, hematitic
	3093' Grades into yellow-green sericitic becoming increasingly sheared CA = 25 degrees
	3124 - 3132.7' Highly sheared, CA = 25 degrees, wispy sericite with concordant quartz-feldspar veinlets and alteration, 2 - 3% pyrite associated with quartz-feldspar in stringers, 174 ppb Au over 2.8'
3132.7 - 3628.0'	KINOJEVIS VOLCANICS
	3132.7 - 3135.6' Sheared Graphite - quartz feldspar veining, 2 - 3% pyrite

FOOTAGE	DESCRIPTION
	KINOJEVIS VOLCANICS (cont'd)
3135.6 - 3581'	Volcanics - locally amygduloidal, becoming coarser-grained downhole, hyaloclastic, bleached grey colour, carbonated
3135.6 - 3145.2'	Highly sheared and sericitic, numerous concordant bands of graphite (commonly associated with pyrite)
3145.2 - 3179.5'	Less sheared (locally strong), sericitic, amygduloidal, local bands of 2 - 3% pyrite
3179.5 - 3186.9'	SHEARED GRAPHITE AND VOLCANICS with nodular pyrite, pyritic stringers, quartz veining, pervasive carbonate, pyrite 1 - 3%, locally 10%
3186.9 - 3267'	Mainly hyaloclastite with local massive flows
3214.2 - 3215.0') 3218.3 - 3223.6')	GREY DIKES - second one is porphyritic, contacts CA = 40 degrees
3231.4 - 3236.8'	GREY DIKE as above; CA = 65 degrees
3267 - 3422'	Mainly massive flows with local hyaloclastite, foliation CA = 35 degrees, seawater(?) alteration common proximal to and within hyaloclastite
3422 - 3447.6'	Bleached equivalent of above, foliation stronger but original textures preserved
3507'	Amygdules, in bleached mafic flow
3562 - 3563'	Blocky core
3570.4 - 3572.3'	GRAPHITIC BRECCIA - with altered volcanics, contact at 10 degrees to CA
3572.3 - 3581.0'	Amygduloidal, bleached, mafic volcanic; often hyaloclastitic
3581.0 - 3586.0'	GRAPHITIC CHERT - with white quartz veins, schistose, graphite plus or minus sericite, carbonatized
3582 - 3583'	Graphitic fault gouge
3586 - 3628	Bleached volcanics as before
3586 - 3605'	Inch wide interflow sediments of black chert and pyrite between mafic flows

FOOTAGE	DESCRIPTION
	KINOJEVIS VOLCANICS (cont'd)
	3605 - 3628' Massive bleached mafic volcanics
3628'	END OF HOLE

BORE HOLE DATA BH NO. N-86-20

DATE	DEPTH	WEDGE TYPE	AZIMUTH (degrees)	DIP (degrees)	
May 10	85'			76	In magnetic mafic syenite
May 12	453'			74.5	In magnetic mafic syenite
May 15	761'		332	75	
May 18	975'		336	75	
May 21	1253'		336	-74.5	
May 24	1424'		337	-74	
May 24	1667'		335	-74	Magnetic rock
May 24	1667'			-74	Dip test only
May 26	1895'		336	-74	Conglomerate
May 28	2064'		336	-73	Conglomerate
May 30	2444'		330	-70.5	
May 30	2492'	Retrievable		71	
June 1	2551'			70.5	
June 2	2696'		328	69.5	
June 3	2961'		328	-69	
June 7	3200'		327	-64	
June 11	3624'		328	-61	
	3628'				END OF HOLE

SIGNED:

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-86-20
PAGE: 1

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au (ppb)	Mo (ppm)
30.0 - 32.0'	Mafic syenite, brecciated and altered (silicic, hematitic)	6001	2.0	22	2
33.0 - 37.4'	As above	6002	4.4	12	2
37.4 - 40.4'	As above	6003	3.0	33	nil
40.4 - 42.4'	As above	6004	2.0	8	nil
645.5 - 647.0'	QFP, slight bleaching, chlorite slips	6005	1.5	49	4
703.4 - 707.9'	QFP, slight bleaching, chlorite slips	6006	4.5	43	4
1048.3 - 1049.2'	1" wide quartz vein at 45 degrees, in bleached qfp (hematized)	6007	0.9	261	nil
1073.9 - 1075.3'	As above	6008	1.4	51	nil
1320.6 - 1323.0'	Brecciated and altered QFP	6009	2.4	14	nil
1360.0 - 1363.2'	QFP, quartz-feldspar veining and strong sericitic alteration	6010	3.2	23	nil
1416.7 - 1417.7'	White quartz-feldspar vein in QFP, CA = 30 degrees	6011	1.0	8	nil
1857.0 - 1858.0'	Mafic syenite, contact zone	6012	1.0	64	2
1858.0 - 1861.4'	Greywacke	6013	3.4	8	2
1861.4 - 1865.5'	As above	6014	4.1	37	nil
1865.5 - 1869.0'	As above	6015	3.5	10	2
1869.0 - 1872.6'	As above	6016	3.6	11	nil
1872.6 - 1877.2'	As above, local quartz-feldspar-carbonate veinlets	6017	4.6	6	nil
1877.2 - 1881.0'	As above	6018	3.8	4	nil
1881.0 - 1884.3'	As above	6019	3.3	3	nil
1884.3 - 1888.0'	As above	6020	3.7	4	2
1888.0 - 1892.0'	3054 ZONE?, sericitic, local quartz veinlets	6021	4.0	7	2
1892.0 - 1895.0'	As above	6022	3.0	38	2
1895.0 - 1897.6'	As above	6023	2.6	29	4
1897.6 - 1900.0'	Greywacke	6024	2.4	22	2
1940.3 - 1942'	Quartz veinlets on contacts with 0.5' wide dike; CA = 30 degrees	6025	1.7	14	2
2019.2 - 2019.7'	2" wide quartz vein at 40 degrees to CA	6026	0.5	177	nil
2028.6 - 2029.9'	Quartz-albite veinlets, in conglomerate	6027	1.3	25	nil

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-86-20

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au (ppb)	Mo (ppm)
2231.5 - 2236'	Conglomerate, brecciated, numerous quartz-feldspar veinlets	6028	4.5	23	4
2237.4 - 2238.5'	Lamprophyre dike with quartz-feldspar veins on contacts	6029	1.1	113	nil
2240.0 - 2241.0'	As above	6030	1.0	14	2
2251.4 - 2252.4'	As above	6031	1.0	7	2
2259.4 - 2260.3'	As above	6032	0.9	8	4
2268.4 - 2269.6'	Lamprophyre dike with quartz-feldspar vein on contact	6033	1.2	7	2
2272.6 - 2274.0'	As above	6034	1.4	37	2
2276.0 - 2277.0'	As above	6035	1.0	7	2
2420.0 - 2424.0'	Sericitic conglomerate, local quartz-feldspar stringers	6036	4.0	26	6
2424.0 - 2428.0'	As above	6037	4.0	22	6
2428.0 - 2432.0'	As above	6038	4.0	23	4
2432.0 - 2436.0'	As above	6039	4.0	8	4
2436.0 - 2440.0'	As above	6040	4.0	7	2
2440.0 - 2444.0'	As above	6041	4.0	12	4
2444.0 - 2448.0'	As above, brecciated, quartz-feldspar filling	6042	4.0	11	2
2448.0 - 2452.0'	As above, brecciated, quartz-feldspar filling	6043	4.0	14	2
2452.0 - 2456.0'	Brecciated conglomerate, 6" lamprophyre dike, quartz-feldspar filling	6044	4.0	7	4
2456.0 - 2460.0'	As above	6045	4.0	17	6
2460.0 - 2464.0'	As above	6046	4.0	19	2
2464.0 - 2468.0'	As above, 8" lamprophyre dike	6047	4.0	12	2
2468.0 - 2472.0'	Mostly lamprophyre with some conglomerate, brecciated	6048	4.0	7	2
2472.0 - 2476.0'	1-1/2" lamprophyre, brecciated conglomerate, quartz-feldspar filling	6049	4.0	8	4
2482.0 - 2483.5'	Conglomerate, quartz-feldspar stringers	6050	1.5	8	2
2549.3 - 2552.2'	Greywacke, albitic alteration (banded)	6051	2.9	10	2
2552.2 - 2555.4'	Greywacke, albitic	6052	3.2	8	2

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-86-20
PAGE: 3

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au (ppb)	Mo (ppm)
	alteration (banded)				
2555.4 - 2557.6'	Conglomerate, 6" quartz-feldspar-sericite vein, sericitic alteration	6053	2.2	12	4
2596.6 - 2600.8'	Greywacke, numerous stringers of quartz-feldspar	6054	4.2	11	8
2779.7 - 2781.0'	Irregular quartz-calcite veinlets in mafic volcanics	6055	1.3	8	6
2781.0 - 2783.7'	As above	6056	2.7	4	4
2784.5 - 2785.5'	Irregular quartz vein as above	6057	1.0	4	4
2834.4 - 2835.1'	Quartz-albite-chlorite veinlet at 40 degrees to CA	6058	0.7	15	6
2842.2 - 2843.5'	Irregular quartz-calcite veinlet in mafic volcanics	6059	1.3	4	4
2908.1 - 2908.7'	Calcite-chlorite veinlet	6060	0.6	3	18
2941.7 - 2942.9'	Irregular quartz-albite veinlets in mafic volcanics	6061	1.2	6	4
2955.6 - 2956.6'	Green spotted dike, in mafic volcanics at 30 degrees to CA	6062	1.0	8	4
2962.0 - 2965.2'	Brecciated mafic volcanics, chloritic	6063	3.2	12	2
2965.2 - 2966.2'	Quartz-breccia vein at contact with dike, CA = 25 degrees	6064	1.0	155	6
2966.2 - 2967.7'	Green spotted dike	6065	1.5	7	2
2967.7 - 2969.4'	Brecciated quartz veining at contact of dike/volcanics	6066	1.7	14	4
2969.4 - 2970.8'	Brecciated quartz vein	6067	1.4	187	6
2970.8 - 2974.3'	Folded; sheared mafic volcanics, dike and quartz veinlets	6068	3.5	8	2
2975.6 - 2976.9'	Irregular quartz-albite veinlets in sheared mafic volcanics	6069	1.3	6	2
2982.5 - 2983.3'	Quartz-albite veinlets at 30 degrees, in sheared mafic volcanics	6070	0.8	3	2
2987.4 - 2988.0'	As above	6071	0.6	220	2
2995.4 - 2997.2'	1' wide white quartz vein and many veinlets	6072	1.8	8	2
3004.7 - 3005.6'	Quartz-albite veinlets at 30 degrees to CA	6073	0.9	4	2

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-86-20
PAGE: 4

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au (ppb)	Mo (ppm)
3013.4 - 3014.3'	Ptygmatic quartz-albite stringer, parallel to CA	6074	0.9	6	2
3028.0 - 3029.6'	Minor quartz stringers in grey intermediate dike	6075	1.6	86	nil
3049.8 - 3050.7'	Quartz-albite-breccia vein at 20 degrees to CA	6076	0.9	6	4
3064.0 - 3066.4'	Sheared mafic volcanics with minor quartz veinlets	6077	2.4	10	14
3066.4 - 3071'	As above, with hematite alteration	6078	4.6	7	2
3071.0 - 3072.8'	As above, with hematite alteration	6079	1.8	8	6
3072.8 - 3073.2'	Mylonite or dike, at volcanics/sediments contact	6080	0.4	10	4
3073.2 - 3074.5'	Sericitic greywacke, minor quartz stringers	6081	1.3	23	4
3074.5 - 3076.5'	Hematitic greywacke	6082	2.0	8	2
3081.1 - 3082.1'	Hematitic greywacke with brecciated quartz veining	6083	1.0	7	2
3097.8 - 3098.5'	Sericitic greywacke with minor quartz breccia	6084	0.7	7	2
3108.4 - 3109.5'	Irregular quartz-albite veins in sericitic greywacke	6085	1.1	15	2
3112.8 - 3114.0'	As above	6086	1.2	41	2
3114 - 3116.2'	As above	6087	2.2	26	2
3116.2 - 3118.0'	As above	6088	1.8	10	2
3123.9 - 3126.0'	Sheared, sericitic sediments, quartz-feldspar veining and alteration	6089	2.1	8	2
3126.0 - 3128.7'	As above, 2 - 3% pyrite in stringers	6090	2.7	12	6
3128.7 - 3131.5'	As above	6091	2.8	174	6
3131.5 - 3132.7'	Sheared graphite-quartz-feldspar, 2 - 3% pyrite	6092	1.2	49	10
3132.7 - 3135.6'	Sheared sericitic volcanics, 1% pyrite associated with quartz-feldspar stringers	6093	2.9	11	2
3135.6 - 3136.6'	As above, 10% pyrite in veinlets, graphite	6094	1.0	43	2
3136.6 - 3141.9'	As above, 2 - 3% pyrite with graphite	6095	5.3	4	2
3141.9 - 3145.2'	As above, 2 - 3% pyrite with graphite	6096	3.3	3	2
3179.5 - 3184.0'	Sheared graphite-volcanics,	6097	4.5	21	2

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-86-20
PAGE: 5

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au (ppb)	Mo (ppm)
	2 - 3% pyrite, quartz veining				
3184.0 - 3186.9'	Sheared graphite-volcanics 2 - 3% pyrite, quartz veining	6098	2.9	15	2
3570.6 - 3571.2'	White quartz vein	6099	0.6	56	4
3581.0 - 3582.2'	White quartz vein in graphitic schist	6100	1.3	27	4
3584.0 - 3585.5'	Graphitic schist with a 1/2' wide white quartz vein	6101	1.5	43	2
3586.8 - 3587.9'	Bleached mafic volcanics with black chert-pyrite interflow sediments	6102	1.1	10	2
	Assaying Anomalous Sludge Areas				
2655.7 - 2656.8'	Minor green mica in sericitic conglomerate	1858	1.1	12	2
2659 - 2660'	As above	1859	1.0	17	82
2573.6 - 2574.6'	Minor quartz stringers in conglomerate	1862	1.0	27	nil
2588.3 - 2589.0'	As above	1863	0.7	12	2
2620.6 - 2621.8'	Quartz stringers in sheared greywacke	1864	1.2	70	2
2635.3 - 2636.2'	4" wide band of 10% disseminated pyrite with quartz stringers	1865	0.9	11	2
	Testing Anomalous Sludge Zones (cont'd)				
2618 - 2620.6'	Conglomerate	31355	2.6		
2621.8 - 2624.6'	Conglomerate	31356	2.8		
2624.6 - 2627.4'	Conglomerate	31357	2.8		
2640.6 - 2643.2'	Conglomerate	31358	2.6		
2656.8 - 2659'	Conglomerate	31359	2.2		
2660 - 2664.8'	Conglomerate, very mafic	31360	4.8		
2664.8 - 2668.4'	As above	31361	3.6		
2668.4 - 2671.9'	Contact, conglomerate - mafic volcanics, less than 1% pyrite	31362	3.5		

DRILL LOG

HOLE: N-86-21
PAGE: 1

NEWFIELDS MINERALS, INC. - KIRKLAND BASIN PROJECT

STRIKE: (Collar) 330 degrees
DIP: -45 degrees
LOCATION:
DATE DRILLED: May 21 - ~~May~~ June 2, 1986
LOGGED BY: T Twomey
DRILLED BY: Heath & Sherwood Drilling
PURPOSE: Test Newfield Break Up-dip

FOOTAGE	DESCRIPTION	
0 - 17'	OVERBURDEN - Casing	
17 - 839'	TEMISKAMING SEDIMENTS	
	17 - 640'	CONGLOMERATE - local intercalations of greywacke, pebble elongation CA = 35 degrees
	37.0 - 37.7'	Brecciated white quartz veinlet CA = 55 degrees
	34.9 - 55.7'	As above
	94.3'	1" wide hematized zone with 2% pyrite; CA = 60 degrees
	116.3 - 120.0'	BRECCIA ZONE - blocky core minor quartz veinlets, green mica, parallel to foliation; CA = 60 degrees
	205 - 215'	Gradually becoming increasingly altered
	215 - 395'	SERICITIC ZONE - bleached yellowish, minor quartz veinlets and green mica
	286'	Becomes more deformed, schistosity, CA = 60 degrees to 70 degrees, minor greywacke sections throughout
	321 - 346'	SHEARED ZONE in altered conglomerate, blocky core
	322.4'	FAULT GOUGE; CA = 70 degrees
	324.5'	FAULT GOUGE, crumbled core
	333 - 334'	Weathered FAULT GOUGE; CA = 60 degrees
	395 - 449'	Relatively unaltered Gradational contacts to altered
	449 - 574'	SERICITIC ZONE - as before, bedding CA = 60 degrees
	549 - 557'	Sheared zone in altered conglomerate
	552.3 - 555.8'	Brecciated quartz vein at 55 degrees to CA

FOOTAGE	DESCRIPTION	
	TEMISKAMING SEDIMENTS (cont'd)	
	574 - 624'	Relatively unaltered
	624 - 690'	SERICITIC ZONE - as above
	690 - 839'	GREYWACKE - local conglomerate intercalations
	711 - 717'	Greywacke with graded beds and tip-up clasts
	725 - 834'	Numerous areas of abundant quartz veining and bleaching, veins at approximately 70 degrees to CA
	782 - 806'	Brown-coloured, hematized greywacke
839 - 920'	KINOJEVIS VOLCANICS	
	839 - 847'	BLACK GRAPHITIC CHERT - sheared and brecciated, bedded and nodular pyrite CA = 70 degrees
	839.8 - 843.4'	BRECCIATED QUARTZ VEINING AT CONTACT, 229 ppb Au and 374 ppm Mo over 3.6'
	843.4 - 843.8'	FAULT - mud seam, graphitic
	847 - 920'	Mafic Volcanics - grey-green, massive, fine-grained, magnetic, carbonated
	847 - 853'	Pillowed volcanics, bleached
	853 - 920'	Massive volcanics, minor calcite veinlets, carbonated
920'	End of Hole	

SURVEY TESTS

	STRIKE	DIP	DATE
374'	326 degrees	-22 degrees	May 28
700'		-15 degrees	May 28 (Acid)
914'	Near horizontal		

SIGNED:

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-86-21
PAGE: 1

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au (ppb)	Mo (ppm)
37.0 - 37.7'	Brecciated white quartz veinlet, in conglomerate	6901	0.7	14	6
54.9 - 55.7'	As above	6902	0.8	11	4
86.6 - 87.6'	Numerous mm-sized white quartz veinlets	6903	1.0	4	2
94.3 - 94.6'	1" wide hematized zone with 2% pyrite, fragment?	6904	0.3	21	10
116.3 - 117.5'	Breccia zone, minor quartz veinlets, green mica	6905	1.2	10	6
117.5 - 120.0'	As above	6906	2.5	6	2
129.0 - 129.4'	Banded quartz-albite vein at 85 degrees	6907	0.4	7	2
220.1 - 223.5'	Sericitic conglomerate with minor mm wide quartz stringers	6908	3.4	8	2
236.4 - 236.9'	Quartz-albite breccia vein, CA = 65 degrees	6909	0.5	8	4
255.6 - 257.3'	Sericitic altered zone in in conglomerate; minor quartz, green mica	6910	1.7	6	2
267.1 - 268.1'	1/2" wide ptygmatic quartz veinlets	6911	1.0	8	2
268.1 - 271.0'	Sericitic altered zone as above	6912	2.9	8	2
271.0 - 276.0'	As above	6913	5.0	11	nil
276.0 - 279.0'	As above	6914	3.0	7	2
281.8 - 283.8'	As above	6915	2.0	10	2
283.8 - 284.5'	As above, quartz veinlet	6916	0.7	48	nil
286.0 - 291.0'	As above	6917	5.0	8	4
291.0 - 296.0'	As above	6918	5.0	8	2
296.0 - 301.0'	As above	6919	5.0	17	2
549.0 - 552.3'	Slight shearing, altered conglomerate, minor quartz and green mica(0.002opt)	6920	3.3	0.002	4
552.3 - 554.2'	Brecciated white quartz vein, less than 1% disseminated pyrite (.018opt)	6921	1.9	0.018	6
554.2 - 555.8'	As above, contacts CA = 55 degrees	6922	1.6	0.002	4
555.8 - 557.7'	Altered, slightly sheared conglomerate, minor quartz (.002opt)	6923	1.9	0.002	4

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-86-21
PAGE: 2

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au (ppb)	Mo (ppm)
301.0 - 306.0'	As above	6924	5.0	15	nil
306.0 - 311.0'	As above	6925	5.0	7	nil
311.0 - 316'	As above	6926	5.0	25	2
316.0 - 321.0'	As above	6927	5.0	6	nil
321.0 - 325.0'	Sheared, altered, with fault gouge	6928	4.0	6	2
325.0 - 329.5'	As above	6929	4.5	4	nil
329.5 - 334.5'	As above	6930	5.0	7	nil
334.5 - 338.0'	Sheared altered conglomerate	6931	3.5	4	2
338.0 - 340.0'	As above	6932	2.0	4	nil
340.0 - 344.5'	As above	6933	4.5	8	4
344.5 - 346.0'	Fault gouge	6934	1.5	7	2
346.0 - 348.0'	Altered greywacke	6935	2.0	6	2
357.8 - 360.3'	As above	6936	2.5	4	2
367.0 - 367.7'	As above, with irregular quartz-albite vein	6937	0.7	4	2
387.7 - 388.7'	As above, with irregular quartz-albite vein	6938	1.0	6	nil
391.2 - 391.8'	3" wide quartz-albite vein at 70 degrees to CA, in greywacke	6939	0.6	6	2
394.0 - 394.5'	2" wide quartz-albite vein, in altered conglomerate	6940	0.5	7	nil
400.0 - 401.2'	Quartz-albite infilling between pebbles in conglomerate	6941	1.2	4	2
420.1 - 420.9'	Quartz-albite vein at 30 degrees to CA	6942	0.8	26	2
449 - 451.1'	Quartz stringers in greywacke, at 60 degrees to CA	6943	2.1	10	2
452 - 456.3'	Quartz infilling in conglomerate (altered)	6944	4.3	7	2
471.2 - 472.8'	As above	6945	1.6	7	2
566.5 - 567.3'	As above	6946	0.8	8	2
588.6 - 589.4'	Quartz stringer at 30 degrees to CA	6947	0.8	67	2
627.7 - 528.9'	Brecciated white quartz vein, in altered conglomerate	6948	1.2	23	nil
638.4 - 640.5'	Quartz infilling in altered conglomerate	6949	2.1	11	2
644.0 - 644.7'	Two 1-inch wide quartz-albite veins at 70 degrees	6950	0.7	8	2

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-86-21
PAGE: 3

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au (ppb)	Mo (ppm)
	to CA				
656.7 - 660.5'	Numerous quartz-albite stringers in altered conglomerate	6951	3.8	6	2
660.5 - 662.3'	As above	6952	1.8	8	nil
666.5 - 668.5'	As above	6953	2.0	11	2
701.0 - 701.5'	1/2" wide quartz-albite stringer with fluorite and galena	6954	0.5	7	2
721 - 721.9'	2" wide quartz stringer at 70 degrees to CA; in greywacke	6955	0.9	6	2
724.2 - 725.5'	Irregular quartz-albite vein with 1 speck of galena	6956	1.3	8	2
725.5 - 728.5'	As above	6957	3.0	7	2
730.3 - 731.0'	Two 2-inch wide quartz veins	6958	0.7	3	2
743.0 - 743.8'	1" wide quartz-albite stringer at contact, 70 degrees to CA	6959	0.8	3	2
751.0 - 751.9'	As above	6960	0.9	6	nil
754.7 - 756.0'	Irregular quartz veinlets in altered greywacke	6961	1.3	4	4
756 - 758.2'	As above	6962	2.2	4	2
762.6 - 764.6'	Numerous quartz stringers at 65 degrees to CA; in altered greywacke	6963	2.0	11	4
776.2 - 777.6'	As above	6964	1.4	18	2
782.8 - 786'	Hematized greywacke, dark-brown	6965	3.2	6	2
797.3 - 801.0'	As above	6966	3.7	6	2
801 - 804.6'	As above, with quartz veinlets at 30 degrees to CA	6967	3.6	17	2
804.6 - 805.8'	Irregular quartz veinlets	6968	1.2	7	nil
805.8 - 808.2'	Quartz stringers in bleached greywacke	6969	2.4	8	2
821.0 - 822.7'	Irregular quartz stringers, less than 1% pyrite	6970	1.7	10	4
825.0 - 826.3'	As above	6971	1.3	34	nil
826.3 - 831.0'	Abundant quartz veins in bleached greywacke	6972	4.7	4	nil
831.0 - 836'	As above	6973	5.0	10	nil
836.0 - 839.0'	Minor quartz veinlets in bleached greywacke	6974	3.0	7	4

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-86-21
PAGE: 4

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au (ppb)	Mo (ppm)
839.0 - 839.8'	Quartz vein, CA = 70 degrees, upper, lower contact at 45 degrees	6975	0.8	10	10
839.8 - 843.4'	Brecciated quartz vein with pyrite fracture filling	6976	3.6	229	374
843.8 - 846.0'	Black chert and graphite with bedded pyrite, CA = 70 degrees	6977	2.2	49	26
846.0 - 849.7'	Altered mafic volcanics with black chert and bedded pyrite	6978	3.7	11	6

DRILL LOG

HOLE: N-86-22
PAGE: 1

NEWFIELDS MINERALS, INC. - KIRKLAND BASIN PROJECT

STRIKE: LOCATION:
DIP: DATE DRILLED: MAY 30 - JUNE 16, 1986
LOGGED BY: J Mucklow, T Twomey
DRILLED BY: Heath & Sherwood Drilling
PURPOSE:

FOOTAGE	DESCRIPTION
0 - 9'	OVERBURDEN - Casing
9 - 272.2'	DEBRIS FLOW
	Purple grey, porphyritic, numerous mafic fragments
	87.0 - 92.4' Altered, numerous quartz-feldspar stringers, local brecciation
	136.0 - 149.5' Altered, fractured, quartz-feldspar stringers
	147.8 - 148.3' Brecciated
	266 - 272.2' Becoming increasingly sericitic
	272.2' Two inch quartz vein on contact
272.2 - 1157.4'	TEMISKAMING SEDIMENTS
	272.2 - 356.3' GREYWACKE - local conglomerate, lightly sericitic
	272.2 - 283' Patchy alteration - sericitic, green localized around quartz-feldspar stringers; dark purple-grey, elsewhere to hematized - sericite becomes more abundant downhole
	286 - 287' GREEN SPOTTED DIKE(?) at 10 degrees to CA - with quartz stringers
	287' Fault mud at 30 degrees, 1 cm wide
	288.5 - 292' INTERMEDIATE DIKE - grey-brown, fine-grained, at 7 degrees to CA
	333.9 - 337.6' INTERMEDIATE DIKE - altered, with 1.5' wide quartz vein, upper contact CA = 45 degrees, lower contact at 80 degrees
	356.3' CONGLOMERATE - still light green
	373.0 - 376.2' SERICITIC DIKE - grey-green, with medium-grained feldspar phenocrysts; contacts at 60 degrees

FOOTAGE	DESCRIPTION
	TEMISKAMING SEDIMENTS (cont'd)
	373.8' FAULT GOUGE, (2 cm) at 40 degrees to CA, with brecciated quartz-feldspar vein
	378 - 379' Quartz-albite stringers
	381.6 - 382.3' Hematized with 1% pyrite,
	417' grading to less bleached and altered; darker coloured
	509.5 - 550' Sericitic, moderate to strong deformation; CA = 30 degrees, locally well fractured, commonly with quartz-feldspar infilling, trace pyrite associated with some quartz veining
	646 - 1000' Sericitic, moderate deformation; CA = 30 degrees, local quartz veining/stringers
	850 - 896' Strongly deformed, local shearing and/or brecciation, abundant quartz-feldspar veining, locally trace pyrite
	1000' Grading out of sericitic alteration
	1110 - 1157.4' Sericitic and bleached
1157.4 - 1556.0'	BASAL TUFF
	Commonly resembles greywacke but contains no jasper
	1157.4 - 1187' SERICITIC, bleached, numerous graded beds rip-up clasts
	1208 - 1213' Patchy silicification, mottled white texture
	1221.5 - 1222' LAMPROPHYRE DIKE - fine-grained, grey with chlorite knots and hematite phenocrysts; contacts at 45 degrees
	1228 - 1262' Hematized tuff/greywacke
	1262 - 1282' Patchy alteration, bleaching Gives mottled texture to fine-grained tuff/sediments
	1282 - 1305' Hematitic
	1305 - 1312' Silicified, buff coloured
	1312 - 1336' Hematitic
	1339.4 - 1341.4' INTERMEDIATE DIKE - grey-green, contact at 55 degrees to CA

FOOTAGE	DESCRIPTION
	BASAL TUFF (cont'd)
	1377 - 1385' Bleached, minor quartz-breccia veinlets
	1397.5 - 1398' INTERMEDIATE DIKE - hematized on surrounding tuff
	1398 - 1415' Hematitic, numerous sedimentary features; bedding at 55 - 60 degrees to CA
	1415 - 1420' Bleached, pale green
	1420 - 1434.5' Hematitic
	1434.5 - 1451' Sericitic with local hematitic zones
	1451 - 1453' Hematitic
	1453 - 1462.2' Lightly sericitic
	1462.2 - 1481.5' Hematitic
	1481.5 - 1556' Sericitic
	1493 - 1517.5') 1526.5 - 1541') Cherty with intercalated tuff/greywacke - hard, bedding at CA = 65 degrees
	1541 - 1556' Quartz veining becoming increasingly common, locally contains trace pyrite
	1549.3 - 1553.0' 90% quartz
1556.0 - 1695'	KINOJEVIS VOLCANICS
	1556 - 1610' Bleached grey, soft
	1556 - 1596' Quartz veining very common, locally containing trace pyrite
	1573 - 1591' Zone of locally intense shearing and/or brecciation containing bleached volcanics, 10 - 50% graphite especially where deformation most intense, and 10 - 30% quartz-feldspar veining
	1591 - 1600' Pillowed volcanics, bleached, fractured, graphitic interflow material
	1600 - 1634' Porphyritic with altered mafic phenocrysts 1 - 2 mm (60%) and pin-point-sized leucoxene

FOOTAGE	DESCRIPTION
	KINOJEVIS VOLCANICS (cont'd)
	1634 - 1695' Pillowed volcanics, local carbonate veins particularly in interflow areas, volcanics pervasively carbonated
1695'	End of Hole

SURVEY TESTS

DEPTH	STRIKE	DIP	DATE
275'	344 degrees	-65 degrees	June 5
634'	337 degrees	-60 degrees	June 5
906'	325 degrees	-59.5 degrees	June 5
1200'		-24 degrees	June 10 (Acid)
1695'		-19 degrees	June 16 (Acid)

SIGNED:

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-86-22
PAGE: 1

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au (ppb)	Mo (ppm)
17.6 - 18.8'	Debris flow, 3" quartz-feldspar-carbonate vein	6979	1.2	8	nil
87.0 - 88.1'	Debris flow, brecciation with feldspar filling	6980	1.1	4	2
88.1 - 92.4'	Debris flow, numerous quartz-feldspar stringers	6981	1.3	4	nil
99.9 - 101.3'	Altered debris flow, numerous quartz-feldspar stringers	6982	1.4	6	2
136.0 - 138.4'	As above	6983	2.4	6	2
138.4 - 141.1'	As above	6984	2.7	8	nil
141.1 - 144.3'	As above	6985	3.2	7	2
144.3 - 147.3'	As above	6986	3.0	6	2
147.3 - 149.5'	As above, brecciated	6987	2.2	14	nil
266.0 - 269.5'	Sericitic debris flow with numerous quartz stringers	6988	3.5	10	2
269.5 - 271.7'	As above	6989	2 2	8	2
271.7 - 272.7'	3" wide quartz vein at contact	6990	1.0	11	2
272.7 - 276.0'	Hematized greywacke with bleached, quartz-filled fractures	6991	3.3	4	2
276.0 - 277.5'	Sericitic greywacke with 2" quartz vein	6992	1.5	6	2
277.5 - 280.8'	Sericitic greywacke, minor hematitic patches	6993	3.3	4	2
280.8 - 282.1'	4" wide quartz-albite veins in sericitic greywacke	6994	1.3	7	2
282.1 - 286.0'	Sericitic greywacke	6995	3.9	8	2
286.0 - 287.0'	Green spotted dike(?) at 10 degrees to CA, with quartz stringers	6996	1.0	10	4
328.9 - 330.3'	Quartz stringers at 15 degrees to CA, in sericitic greywacke	6997	1.4	8	2
333.9 - 336.5'	Quartz-albite vein (1.5') in altered dike	6998	2.6	7	12
373.0 - 374.7'	Fault gouge and brecciated quartz vein, in dike	6999	1.7	4	4
378.0 - 379.0'	Quartz-albite stringers	7000	1.0	3	2
381.6 - 382.3'	Hematized conglomerate with 1% pyrite	31001	0.7	14	4

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-86-22
PAGE: 2

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au (ppb)	Mo (ppm)
397.6 - 398.4'	Quartz-albite stringers at 35 degrees to CA	31002	0.8	12	2
406.5 - 409.1'	Quartz stringers in brown-altered conglomerate	31003	2.6	14	2
409.1 - 409.9'	Hematized conglomerate minor quartz stringers, magnetic	31004	0.8	18	2
436.0 - 436.5'	Quartz-albite vein at 35 degrees to CA	31005	0.5	4	2
509.6 - 514.0'	Sericitic conglomerate	31006	4.4	22	2
514.0 - 518.0'	As above	31007	4.0	10	2
518.0 - 521.5'	As above	31008	3.5	32	4
521.5 - 523.0'	As above, quartz veining, trace pyrite	31009	1.5	170	4
523.0 - 527.2'	As above	31010	4.2	19	4
527.2 - 529.2'	Sericitic conglomerate, quartz-feldspar veining, 1% coarse pyrite	31011	2.0	122	4
529.2 - 531.8'	As above, strongly deformed and siliceous	31012	2.6	34	2
531.8 - 534.6'	As above	31013	2.8	17	12
534.6 - 537.5'	As above, sinuous quartz-feldspar stringers	31014	2.9	8	14
537.5 - 540.7'	As above	31015	3.2	10	2
540.7 - 544.0'	As above	31016	3.3	10	2
544.0 - 548.0'	As above, quartz-feldspar veining	31017	4.0	7	6
653.4 - 656.5'	Sericitic conglomerate, fractured and quartz-feldspar veining	31018	3.1	6	4
660.0 - 663.0'	As above	31019	3.0	199	44
667.8 - 673.3'	As above	31020	5.5	11	6
682.0 - 684.2'	As above	31021	2.2	29	36
772.4 - 774.0'	As above, strongly deformed, quartz in shear (2 inch)	31022	1.6	11	6
794.0 - 796.8'	As above, quartz-feldspar veining	31023	2.8	14	6
846.0 - 849.2'	Sericitic conglomerate, quartz-feldspar veining	31024	3.2	10	8
849.2 - 851.7'	As above, brecciation and shearing	31025	2.5	10	8
851.7 - 896.0'	As above, strongly deformed	31026	5.7	14	2

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-86-22
PAGE: 3

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au (ppb)	Mo (ppm)
856.0 - 861.0'	As above, and fracturing	31027	5.0	8	10
861.0 - 866.0'	As above, strongly deformed, local quartz-feldspar stringers	31028	5.0	7	6
866.0 - 867.0'	As above, brecciation, strong deformation, quartz-feldspar	31029	1.0	10	4
867.0 - 868.4'	As above, brecciation, strong deformation, quartz-feldspar	31030	1.4	12	8
868.4 - 870.7'	Sericitic conglomerate, extreme deformation, quartz-feldspar stringers	31031	2.3	10	4
870.7 - 876.0'	As above	31032	5.3	8	4
876.0 - 881.0'	As above	31033	5.0	23	6
881.0 - 886.0'	As above	31034	5.0	15	6
886.0 - 889.6'	As above, quartz-feldspar veining	31035	3.6	12	4
889.6 - 892.5'	As above, 1' quartz vein with trace pyrite	31036	2.9	29	6
892.5 - 896.0'	As above, strongly deformed	31037	3.5	18	20
1115.2 - 1116.0'	White quartz-albite veinlets with traces of galena	31038	0.8	4	2
1161.8 - 1163.1'	Abundant irregular quartz-albite stringers	31039	1.3	17	4
1166.0 - 1166.7'	As above	31040	0.7	8	2
1168.2 - 1169.7'	As above	31041	1.5	11	6
1200.2 - 1200.9'	Quartz veinlets at 60 degrees in bleached greywacke	31042	0.7	8	2
1209.2 - 1210.1'	Patchy silicification, mottled white texture	31043	0.9	4	4
1217.0 - 1218.8'	As above	31044	1.2	6	2
1272.8 - 1273.8'	Quartz-albite-breccia veinlet, in tuff	31045	1.0	3	2
1305.2 - 1306'	Silicified tuff - buff coloured	31046	0.8	4	6
1306.4 - 1307.6'	Irregular quartz-albite veinlets in bleached tuff	31047	1.2	3	4
1307.6 - 1309.3'	1/2" wide quartz fractures; with 1% disseminated pyrite in	31048	1.7	10	4

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-86-22
PAGE: 4

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au (ppb)	Mo (ppm)
	bleached tuff				
1315.3 - 1316'	Cross-cutting quartz stringers in bleached grit	31049	0.7	15	2
1341.0 - 1341.6'	Quartz-breccia contact between dike and tuff	31050	0.6	8	4
1367.8 - 1368.8'	Quartz-albite-breccia veinlets in bleached tuff	31051	1.0	10	2
1375.2 - 1377'	As above, with less than 1% disseminated pyrite	31052	1.8	11	2
1402 - 1403.0'	Quartz-albite stringers at 60 degrees to CA	31053	1.0	45	6
1426.4 - 1427.3'	Irregular quartz-albite veinlets in altered tuff	31054	0.9	15	2
1536.0 - 1541.0'	Sericitic tuff, local quartz veins plus or minus trace pyrite	31055	5.0	12	2
1541.0 - 1546.0'	As above	31056	5.0	7	4
1546.0 - 1549.3'	As above	31057	3.3	10	6
1549.3 - 1553.0'	As above, 95% quartz veins	31058	3.7	8	4
1553.0 - 1555.7'	Sericitic tuff, local quartz veins plus or minus trace pyrite	31059	2.7	18	6
1555.7 - 1556.9'	Sericitic tuff/bleached volcanics with quartz veining	31060	1.2	11	6
1556.9 - 1561.0'	Bleached volcanics, local quartz veining plus or minus trace pyrite	31061	4.1	8	4
1561.0 - 1564.0'	As aboe	31062	3.0	14	4
1564.0 - 1567.0'	As above	31063	3.0	11	6
1567.0 - 1570.3'	As above	31064	3.3	10	6
1570.3 - 1573.3'	As above	31065	3.0	12	2
1573.3 - 1576.0'	Sheared bleached volcanics, graphite, quartz veining	31066	2.7	59	104
1576.0 - 1581.0'	As above	31067	5.0	47	120
1581.0 - 1586.0'	Brecciated volcanics with 30% graphite, quartz veining	31068	5.0	26	56
1586.0 - 1591.0'	Brecciated volcanics with 50% graphite, quartz	31069	5.0	37	30

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-86-22
PAGE: 5

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au (ppb)	Mo (ppm)
	veining				
1591.0 - 1596.0'	Bleached volcanics, graphitic shears, quartz veining	31070	5.0	7	4

DRILL LOG

HOLE: N-86-23
PAGE: 1

NEWFIELDS MINERALS, INC. - KIRKLAND BASIN PROJECT

STRIKE: (Collar) 120 degrees LOCATION:
DIP: -70 degrees DATE DRILLED: June 18 - June 20, 1986
LOGGED BY: T Twomey
DRILLED BY: Heath & Sherwood Drilling
PURPOSE:

FOOTAGE	DESCRIPTION	
0 - 22'	OVERBURDEN -	Casing
22 - 158.5'	KINOJEVIS VOLCANICS	
	0 - 30'	Blocky core
	40 - 44'	Blocky core
	95 - 97'	Blocky core
	130 - 154'	Altered, bleached volcanics, light grey colour - contains leucoxene
	154.0 - 158.5'	GRAPHITIC CHERT - blocky, contact at 20 degrees to CA
	157 - 158.5'	Altered volcanics intercalated with thin cherty sediments
158.5 - 286'	BASAL TUFF	
	Faulted contact with above volcanics, weathered brown	
	158.5 - 167'	Blocky core of sheared and brecciated quartz veinlets in altered sericitic tuff
	167 - 203'	Green fine-to-medium-grained sericitic tuff with numerous quartz veinlets
	203 - 250'	Light brown sediments or tuff are homogenous, fine-grained, oligomictic
	239'	Rip-up clasts in tuff/sediments
	250 - 286'	Light grey to green sericitic tuff
286'	Hole stopped to recollar at steeper angle	

DRILL LOG

HOLE: N-86-23A
PAGE: 1

NEWFIELDS MINERALS, INC. - KIRKLAND BASIN PROJECT

STRIKE: (Collar) 120 degrees LOCATION:
DIP: -79 degrees DATE DRILLED: June 20 - June 24, 1986
LOGGED BY: T Twomey, J Mucklow
DRILLED BY: Heath & Sherwood Drilling
PURPOSE:

FOOTAGE	DESCRIPTION
0 - 26'	OVERBURDEN - Casing
26 - 205.9'	KINOJEVIS VOLCANICS
	Melanocratic, fine-grained to medium-grained - magnetic, massive
	26 - 32' Blocky core, fracturing at 45 degrees to CA
	113 - 115' Blocky core, fracturing at 45 degrees to CA
	157 - 195.8' Bleached mafics, carbonated, becoming more fractured
	195.8 - 199.1' Sheared and brecciated FAULT ZONE; CA = 30 degrees
	200.4 - 202.0' Sheared and brecciated; CA = 30 degrees
	202.0 - 205.9' Sheared GRAPHITIC CHERT with pyrite nodules and quartz stringers; CA = 30 degrees
205.9 - 539'	BASAL TUFF
	Finely banded sand-sized ash; CA = 30 - 35 degrees
	205.9 - 208' Sericitic
	208 - 221' Medium-dark green with local orange 1 - 5 cm clasts
	221 - 244' Sericitic, local orange clasts
	231 - 233' Sheared with quartz-feldspar veining; CA = 30 degrees
	244 - 262' Hematitic
	262 - 270' Bleached and lightly sericitic
	270 - 284.2' INTERMEDIATE DIKE - porphyritic with chloritic phenocrysts
	274.5 - 276.5' Quartz-feldspar veining
	281.9 - 283.7' Hematitic
	284.2' Lower contact; CA = 25 degrees

FOOTAGE	DESCRIPTION
	BASAL TUFF (cont'd)
	284.2 - 285' Sheared and fractured
	316.2 - 317.0' INTERMEDIATE DIKE - sheared parallel to contacts; CA = 25 degrees
	330 - 370' Light brown, bleached, slightly sericitic
	370 - 386' Sericitic
	386 - 437' Dark green
	437 - 454' Very blocky, sericitic, numerous quartz-feldspar veins, appears to be a fault zone
	454 - 457' Brecciated with quartz and sericite (continuation of fault zone); 456.5 - 457.0' MOLY SLIPS
	468 - 475.5' Sericitic, quartz-feldspar veining
	475.5 - 502' Very blocky, sericitic to light brown altered, quartz-feldspar veining common
	475 - 477' Fault gouge
	489 - 491' Fault gouge
	493 - 495' Fault gouge
	516.8 - 519.5' Quartz-feldspar vein with sericitic tuff/sediments
	534' Bedding CA = 15 degrees
539'	Hole stopped, entered sediments too soon

SURVEY TESTS

DEPTH	STRIKE	DIP	DATE
170'	124 degrees	-79 degrees	June 22
315'	125 degrees	-78 degrees	June 23
516'	135 degrees	-73 degrees	June 24

SIGNED:

FOOTAGE	DESCRIPTION

SURVEY TESTS

	STRIKE	DIP	DATE
143'	119 degrees	-68.5 degrees	June 19
282'	123 degrees	-66 degrees	June 20

SIGNED:

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-86-23
PAGE: 1

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au (ppb)	Mo (ppm)
	Hole 23				
155.2 - 156.8'	Graphitic chert with thin pyrite layers	31401	1.6	12	12
158.2 - 168.2'	Sheared graphitic chert with quartz veinlets	31402	2.0	7	4
180.0 - 181.3'	White quartz veins in green sericitic sediments	31403	1.3	19	2
264.0 - 265.2'	Numerous quartz veinlets, in sericitic sediments	31404	1.2	19	6
	Hole 23A				
169.7 - 170.7'	White quartz veinlet in altered mafic volcanics	31405	1.0	17	4
454.0 - 457.9'	Brecciated tuff, sericitic, quartz veining, moly slips	31406	3.9	33	70
447.0 - 447.8'	White quartz vein in green sericitic sediments	31407	0.8	12	6
498 - 498.8'	Quartz vein in brown sericitic sediments/tuff	31408	0.8	14	2
	Testing Anomalous Sludge Zones				
415.5 - 416.5'	Bleached tuff, minor quartz-albite	31363	1.0		
334.2 - 337.0'	Bleached brown tuff, a dry fracture parallel to CA, minor pyrite	31364	2.8		
350.4 - 352'	Bleached brown tuff, 1" wide quartz-albite vein	31365	1.6		
355.8 - 359'	Bleached brown tuff, minor quartz stringers	31366	3.2		

DRILL LOG

HOLE: N-86-24
PAGE: 1

NEWFIELDS MINERALS, INC. - KIRKLAND BASIN PROJECT

STRIKE: (Collar) 120 degrees LOCATION:
DIP: -80 degrees DATE DRILLED: June 29 - Aug 1, 1986
LOGGED BY: J Mucklow, T Twomey
DRILLED BY: Heath & Sherwood Drilling
PURPOSE: Test for north-striking structures from BAZ

FOOTAGE		DESCRIPTION
0 - 18'	OVERBURDEN -	Casing
18 - 553.9'	KINOJEVIS VOLCANICS	
	18 - 553.9'	PILLOWED MAFIC VLCANICS - dark green, fine-grained, pervasively carbonated, locally bleached lighter green, local quartz-feldspar-carbonate veins and stringers, interflow material commonly quartz-carbonate-feldspar-epidote and locally pyrite 1 - 2%
	320.5 - 324.5'	Black, fine-grained, interpillow sediment with 1% po nodules, minor cpy
	328 - 329'	Black, fine-grained, interpillow sediment with 5% po
	390'	Massive mafic volcanics
	446 - 447'	Blocky core
	500 - 534'	Massive mafic volcanics - bleached grey colour
	521.7 - 522.5'	Interflow sedimentary breccia, CA = 30 degrees
	534 - 553.9'	GRAPHITIC CHERT/SCHIST - at fault contact with basal tuff shearing at 35 degrees to CA
	534 - 538'	Highly sheared, elongated graphite beds with mafic volcanics
	538 - 541'	Graphite schist, fault gouge at 545'
	541 - 545'	Graphitic and mafic volcanic-breccia
	545 - 548'	GRAPHITIC FAULT GOUGE
	548 - 553.9'	Intercalated graphitic and pyritic beds, with mafic volcanics; from 543' to 554', 100 ppb Au and 80 ppm Mo

FOOTAGE	DESCRIPTION
553.9 - 2774.1'	BASAL TUFF
	Fine-grained ash-tuff/greywacke? - sericitic
553.9 - 555.7'	Sheared green sericitic, CA = 30 degrees
555.7 - 557.2'	Abundant white quartz-albite veins
567 - 568'	Blocky core
574 - 584'	Numerous white quartz-albite veinlets
586 - 589'	Blocky core
595 - 599'	Brown hematitic; bedding at 20 degrees to CA
614.2 - 630.8'	INTERMEDIATE DIKE - fine-to-medium-grained, grey, porphyritic, upper contact at 20 degrees, lower at 70 degrees to CA, (chilled margins?), sericitic matrix with mm-sized rounded reddish and black phenocrysts
630.8 - 667'	Greenish, fine-grained, sericitic
667 - 697'	TRACHYTIC AGGLOMERATE(?) - light brown colour, hematitic
697 - 782'	Fine-grained, numerous graded beds
782 - 929'	As above but mauve-brown hematitic, bedding at 20 degrees to CA, local cobble-sized lapilli of generally volcanic composition, local agglomeratic zones
929 - 933'	Greenish with quartz-feldspar stringers
933 - 969'	Lightly hematitic, ash to lapilli tuff
969 - 993'	AGGLOMERATE, pink to orange clasts in a mauve to purple matrix (hematitic)
993 - 1001'	ASH TUFF, lightly sericitic
1001 - 1004.1'	Increasingly bleached and siliceous downhole
1004.1 - 1004.9'	GREY DIKE - fine-grained, porphyritic, sharp contacts
1004.9 - 1007.5'	Bleached to sericitic tuff, trace pyrite

FOOTAGE	DESCRIPTION
	BASAL TUFF (cont'd)
1007.5 - 1009.2'	GREY DIKE - as above, CA = 20 degrees
1009.2 - 1015.2'	Lightly sericitic, well fractured with quartz-feldspar filling and trace pyrite near dike
1015.2 - 1030'	Chloritic to lightly sericitic
1021 - 1030'	Spotty siliceous or albitic bleaching
1030 - 1049'	Chloritic to hematitic lapilli tuff
1049 - 1216'	Hematitic agglomerate to lapilli tuff, magnetic
1216 - 1275'	Hematitic tuff, magnetic
1275 - 1339'	Lapilli tuff, chloritic to lightly hematitic and carbonatized
1330 - 1339'	Brecciated with quartz-feldspar stringers
1339 - 1550'	Hematitic lapilli tuff to agglomerate - highly magnetic due to black magnetic lapilli
1382 - 1390'	Reamed, no core
1390 - 1430'	Hematitic ash to lapilli tuff, magnetic, pervasively carbonated, numerous carbonate veinlets at low angles to CA
1430 - 1551'	Dark grey to black, locally hematitic, ash to lapilli tuff, pervasively carbonated
1551 - 1559'	Non-magnetic, 5 - 20% pink carbonate veining with quartz in larger veins, no sulfides, no hematite, blocky
1571 - 1597'	Similar to above, non-magnetic, blocky
1606 - 1620'	Slightly hematitic, magnetic
1620 - 1639'	Carbonated pervasively and in stringers, low magnetics, local quartz-carbonate veining
1639 - 1693'	Dark grey to black tuff with or without lapilli, magnetic, carbonated
1693 - 1727'	Locally lightly hematitic, magnetic, carbonated

FOOTAGE	DESCRIPTION
	BASAL TUFF (cont'd)
1727 - 1753'	Patchy intense carbonate, low-magnetic
1753 - 1834'	Locally hematitic, pervasive carbonate, magnetic, dominantly agglomerate, CA = 45 - 50 degrees, bedding
1834 - 1896'	Dark coloured tuff, hematitic; as above; finely bedded with minor agglomerate sections, spotty magnetics
1896 - 1904'	Agglomerate as before, bedding at 35 - 45 degrees to CA, spotty magnetics
1904'	Dominantly tuff, grey-green coloured, LACK OF HEMATITE, non-magnetic
2004 - 2015'	Numerous pink calcite veinlets
2015 - 2170'	Dark grey tuff, fine-grained, poorly bedded, non-magnetic, non-hematitic, carbonatized
2170 - 2192'	Numerous pink calcite veinlets at 40 degrees to CA and flatter in tuff
2192 - 2215'	FAULT ZONE - with numerous pink calcite veinlets, host rock is dark-coloured, fine-grained massive (mafic volcanics)
2204 - 2206'	Fault gouge, bounded by calcite veinlets at 10 degrees to CA
2215 - 2222'	Numerous pink calcite veinlets in tuff
2222 - 2316'	Dark grey tuff, as before; patchy magnetic areas
2316 - 2405'	Numerous agglomerate sections; round, dark red cobbles
2326 - 2351'	Blocky core, fracturing parallel to CA
2379 - 2380'	Blocky core
2424.5 - 2429.7'	LAMPROPHYRE DIKE - dark grey, fine-grained, upper contact at 65 degrees to CA, with two other irregular contacts at lower end of dike with tuff

FOOTAGE		DESCRIPTION
		BASAL TUFF (cont'd)
	2432 - 2442.5'	LAMPROPHYRE DIKE(S) - spotted texture due to chlorite and altered plagioclase, irregular and gradational contacts
	2442.5 - 2458.5'	Light-green altered tuff - with minor quartz stringers
	2456 - 2457'	Ground core
	2458.5 - 2600'	Dark coloured tuff, as before; magnetic, carbonatized, with some agglomerate sections
	2600'	Agglomerate; hematitic
	2643 - 2644.3'	LAMPROPHYRE DIKE - grey-green, contacts at 40 degrees to CA
	2692.4 - 2774.1'	BLEACHED ALTERATION ZONE - light green sericitic tuff with minor green mica
	2699.5 - 2714.8'	GREEN-SPOTTED DIKE(S) - patchy alteration
	2714.8 - 2721.0'	Light green sericitic tuff
	2721.0 - 2725.0'	GREEN SPOTTED DIKE
	2725.0 - 2730.8'	Light green sericitic tuff (cont'd)
	2730.5 - 2732.5'	GREEN SPOTTED DIKE - contact at 50 degrees, parallel to bedding/foliation
	2732.5 - 2735.6'	Sericitic tuff, convoluted bedding
	2735.6 - 2746.0'	GREEN SPOTTED DIKE
	2746.0 - 2774.1'	Light green sericitic tuff, exhibiting numerous sedimentary features, ie.) reworked
2771.4 - 2538'		TEMISKAMING SEDIMENTS
	2774.1 - 2938'	CONGLOMERATE - strongly foliated CA = 45 degrees, lightly sericitic to 2860', locally intercalated greywacke
	2776.3 - 2817.3'	INTERMEDIATE DIKE - bimodally porphyritic, CA = 60 degrees, locally included conglomerate/ greywacke zones, common quartz-feldspar stringers
2938'		END OF HOLE

FOOTAGE DESCRIPTION

BORE HOLE DATA

DATE	DEPTH	ACID TEST	WEDGE TOP	WEDGE TYPE	AZIMUTH (degrees)	DIP (degrees)	
June	Collar				120	-80	
July 1	108'				126	-80	
July 2	276'				122	-79.5	
July 5	500'				128	-79.5	
July 6	635'				127	-78.5	
July 8	904'				132	-76.5	
July 9	1162'				145	-72	Magnetic?
July 12	1122'				144	-72	Non-magnetic - 3 tests confirm end of hole
July 13	1382'			Retriev.		-69	LAZ with 30 degrees steepening
July 15	1466'				152	-67	
July 17	1891'				153	-61	
July 19	2220'				158	-58	
July 23	2505'				152	-50.5	Magnetic(?)
July 31	2820'				161	-44	
Aug 1	2938'						END OF HOLE

SIGNED:

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-86-24
PAGE: 1

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au (ppb)	Mo (ppm)
212.7 - 215.0'	Mafic volcanics with pyritic-quartz-carbonate pillow selvedges	31071	2.3	14	nil
242.5 - 243.7'	As above	31072	1.2	71	2
322.5 - 323.6'	Inter-pillow sediments; black with 1% po, cpy	31073	1.1	17	4
328 - 329'	As above, 5% po	31074	1.0	15	4
521.7 - 522.5'	Interflow sedimentary breccia, minor pyrite and graphite	31075	0.8	21	2
534.0 - 535.8'	Sheared graphitic sediments with mafic volcanics	31076	1.8	112	18
535.8 - 538.1'	As above	31077	2.3	12	2
538.1 - 540.1'	As above	31078	2.0	25	6
540.1 - 541.0'	Graphitic sediments (footage error in core, is really 2' long)	31079	2.0	63	42
541.0 - 543.0'	Graphitic sediments intercalated with mafic volcanics	31080	2.0	41	36
543.0 - 544.6'	Graphite breccia	31081	1.0	81	72
551.5 - 553.9'	Graphite and pyrite beds	31082	2.4	132	88
553.9 - 555.7'	Sheared green sericitic sediments	31083	1.8	33	20
555.7 - 557.2'	Abundant white quartz-albite veins in sediments	31084	1.5	15	8
582.5 - 584'	As above	31085	1.5	10	2
1001.6 - 1004.9'	Bleached tuff with grey dike, siliceous	31086	3.3	11	4
1004.9 - 1009.2'	Bleached tuff with grey dike, siliceous	31087	4.3	12	2
1009.2 - 1012.0'	Tuff, fractured with quartz-feldspar filling, lightly sericitic	31088	2.8	10	2
1012.0 - 1015.6'	Tuff, lightly, sericitic, local, quartz-feldspar stringers	31089	3.6	14	2
1329.3 - 1333.6'	Tuff to lapilli tuff, quartz-feldspar stringers, minor breccia	31090	4.3	7	2
1333.6 - 1337.0'	As above	31091	3.4	64	2
1337.0 - 1339.6'	As above	31092	2.6	41	2

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-86-24
PAGE: 2

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au (ppb)	Mo (ppm)
1550.9 - 1555.0'	As above, carbonate stringers	31093	4.1	44	4
1555.0 - 1559.6'	As above, quartz-carbonate veinlets	31094	4.6	14	4
1570.5 - 1573.9'	As above, carbonate stringers	31095	3.4	12	2
1573.9 - 1577.1'	As above, carbonate stringers	31096	3.0	6	2
1577.1 - 1581.0'	As above, quartz-carbonate veinlets	31097	4.9	7	nil
1581.0 - 1586.0'	As above, carbonate stringers	31098	5.0	12	4
1586.0 - 1591.0'	As above, carbonate stringers	31099	5.0	11	2
1591.0 - 1596.6'	As above, carbonate stringers	31100	5.0	18	2
1619.5 - 1625.0'	As above, quartz-carbonate vein	31101	5.5	7	2
1625.0 - 1628.9'	As above, quartz-carbonate veining	31102	3.9	2	2
1628.9 - 1633.7'	Tuff, carbonate stringers, quartz-carbonate veins	31103	4.8	11	2
1633.7 - 1639.2'	As above	31104	5.5	7	2
2446.8 - 2449.3'	Light green altered tuff with numerous quartz-albite stringers	31105	2.5	11	2
2459 - 2459.1'	As above	31106	2.1	17	nil
2627.6 - 2628.3'	Tuff, quartz-feldspar stringers	31107	0.7		2
2631.1 - 2632.0'	Tuff, light green, quartz veinlet with epidote	31108	0.9		2
2719.5 - 2720.7'	Quartz veining adjacent to green spotted dike	31109	1.2		2
2721.5 - 2723.2'	Quartz veining adjacent to green spotted dike	31110	1.7		4
2737.0 - 2739.2'	Quartz stringers in green spotted dike	31111	2.2	30	2
2752 - 2754'	NX core, quartz-feldspar veining, only 1 foot	31112	1.0	8	8
	Testing Anomalous Sludge Zones				
221.6 - 223.4'	Interpillow breccia with	31113	1.8	4	2

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-86-24
PAGE: 3

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au (ppb)	Mo (ppm)
	quartz and less than 1% pyrite				
229.3 - 230.1'	As above	31114	0.8	21	2
630.8 - 632.8'	Altered (sericitic) Basal Tuff with minor quartz veining (albite)	31115	2.0	15	2
636.3 - 638.0'	As above	31116	1.7	12	2
638.0 - 640'	G.V. in sericitic tuff parallel with minor disseminated pyrite, less than 1%	31117	2.0	6	4
643 - 645.3'	Grey-green alteration in fine-grained tuff, minor disseminated pyrite	31118	2.3	11	2
648 - 650.2'	Sericitic tuff with black pyritic stringers, 27 degrees to CA	31119	2.2	18	4
658 - 660'	Quartz-albite veining, in sericitic tuff	31120	2.0	4	nil
660 - 662'	Sericitic tuff with minor quartz-albite and disseminated pyrite, less than 1%	31121	2.0	3	2
662 - 664'	As above	31122	2.0	10	4
664 - 666'	As above	31123	2.0	7	nil
666 - 668'	As above	31124	2.0	7	2
668 - 673'	Alteration zone within Basal Tuff and agglomerate	31125	5.0	8	4
673 - 678'	As above	31126	5.0	8	2
678 - 683'	As above	31127	5.0	81	nil
683 - 688'	As above	31128	5.0	19	2
688 - 693'	As above	31129	5.0	7	2
693 - 698'	As above	31130	5.0	11	2
698 - 703'	As above	31131	5.0	6	2
703 - 708'	As above	31132	5.0	4	2
	Test Anomalous Sludge Zone				
708 - 713'	Alteration zone in Basal Tuff, sericitic, minor pyrite	31133	5.0	3	-
713 - 718'	As above	31134	5.0	3	2
718 - 723'	As above	31135	5.0	4	2

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-86-24
PAGE: 4

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au (ppb)	Mo (ppm)
723 - 728'	As above	31136	5.0	3	2
728 - 733'	As above	31137	5.0	3	2
733 - 738'	As above	31138	5.0	6	4
738 - 743'	As above	31139	5.0	14	6
743 - 748'	As above	31140	5.0	10	4
810 - 815'	WEAKLY HEMATIZED, massive greywacke/tuff	31141	5.0		
827 - 832'	As above	31142	5.0		
848 - 853'	As above, in part agglomeratic	31143	5.0		
867 - 872'	As above	31144	5.0		
886 - 891'	As above	31145	5.0	4	2
910 - 915'	WEAKLY HEMATIZED greywacke/tuff, agglomerate	31146	5.0	8	4
786 - 791'	WEAKLY HEMATIZED greywacke/tuff	31147	5.0	22	2
979.0 - 984'	Agglomerate	31148	5.0		
994 - 999'	Light green, altered tuff	31149	5.0		
1028 - 1030.9'	Patchy bleached tuff, minor albite veinlets	31150	2.9		
1033.2 - 1034.4'	Albite veinlet at 15 degrees to CA, in bleached tuff	31151	1.2		
1051 - 1056'	Agglomerate	31152	5.0		
1065.8 - 1066.6'	Quartz-albite veinlets at 22 degrees to CA, in bleached tuff	31153	0.8		
1084.0 - 1085.1'	As above	31154	1.1		
1093.7 - 1098.5'	Hematitic agglomerate	31367	4.8		
1112.5 - 1117.3'	As above	31368	4.8		
1130.6 - 1135'	As above	31369	4.4		
1149 - 1154'	As above	31370	4.8		
1167.3 - 1173'	As above	31371	4.7		

DRILL LOG HOLE: N-86-25
PAGE: 1

NEWFIELDS MINERALS, INC. - KIRKLAND BASIN PROJECT

STRIKE: (Collar) 150 degrees LOCATION:
DIP: -70 degrees DATE DRILLED: July 25 - Sept 2, 1986
LOGGED BY: M Masson, T Twomey, J Mucklow
DRILLED BY: Heath & Sherwood Drilling
PURPOSE: Test above crosscut from the north.

FOOTAGE		DESCRIPTION
0 - 7'	OVERBURDEN	
7 - 552.5'	KINOJEVIS VOLCANICS	
	7 - 543'	PILLOWED BASALT, fine-grained, dark-green, carbonatized, magnetic, pillow margins commonly filled by carbonate, quartz and locally pyrite.
	74.5 - 75.5'	MAFIC DIKE, light-green, contacts at 50 degrees to CA.
	471.0 - 474.8'	Mafic Dike, coarse, bimodal porphyritic (light green pyroxene and dark amphibole?).
	521.4 - 522.6'	Graphitic chert zone, CA = 45 - 50 degrees.
	537 - 543.0'	Highly fractured, quartz-feldspar filling with local pyrite and graphitic appearances.
	543 - 546.3'	Sheared graphitic chert zone, brecciated, very crumbly.
	546.3 - 549'	Sheared volcanics/sediments(?) with graphite, quartz veining and trace pyrite.
	549 - 552.5'	90% quartz veining with up to 2% pyrite.
552.5 - 781.8'	BASAL TUFF	
	552.5'	Agglomerate, foliation and elongation plane, CA = 40 degrees.
	552.5 - 562.5'	Lightly sericitic.
	568 - 580'	Lightly sericitic.
	580 - 630'	Chloritic to lightly hematitic with sericitic zones proximal to fractures or quartz veining.
	628 - 629'	Shearing and brecciation with quartz veining, CA = 30 degrees, sub-concordant to foliation.
	630 - 686'	Chloritic, very dark grey, carbonatized

FOOTAGE	DESCRIPTION
	BASAL TUFF (cont'd)
	686 - 723' Agglomerate; chloritic, dark grey, as before.
	723 - 755' Tuff, as before.
	755 - 756' Ground core.
	756 - 762.4' MAFIC DIKE(?) volcanic(?) - dark green, fine-grained, massive.
	762.4 - 781.8' Tuff, as before.
781.8 - 811.8'	DIABASE DIKE
	Fine-grained dike, saussuritized, greenish-grey colour. Non-magnetic, non-carbonatized.
	781.8' Chilled margin, intrusive contact at 18 degrees to CA.
	809 - 811.8' Chilled margin, fault contact at 15 degrees to CA.
811.8 - 1247.2'	BASAL TUFF
	Highly magnetic, carbonatized.
	814 - 817' Grey quartz veining, in fractured tuff, less than 1% disseminated pyrite, chloritic fractures at low angles to CA.
	817 - 833' Numerous chloritic fractures and calcite veinlets, less than 1% pyrite.
	857 - 877' Numerous calcite veinlets (less than 1" wide) at 60 - 75 degrees to CA in tuff and agglomerate.
	848 - 849' Chlorite-calcite sheared zone at 12 degrees to CA.
	1138 - 1146' Numerous quartz and calcite veinlets, generally at 40 degrees to CA.
	1175 - 1190' Bedding at 25 - 35 degrees to CA.
	1193 - 1197' Numerous quartz-calcite veinlets at 20 degrees to CA.
	1214' Bedding with pyrite, at 25 degrees to CA.
1247.2 - 2907.2'	TEMISKAMING SEDIMENTS - CONGLOMERATE
	1247.2 - 1277' Conglomerate, with minor jasper clasts; and calcite infilling between pebbles.

FOOTAGE	DESCRIPTION
	TEMISKAMING SEDIMENTS (cont'd)
1277 - 1302'	Conglomerate.
1302 - 1315.6'	Greywacke - fine to medium-grained, massive, contact gradational with dispersed pebble fragments.
1315.6 - 1323'	Conglomerate - magnetic.
1323 - 1326.6'	Greywacke, massive fine-grained with minor, less than 0.5%, conglomerate clasts.
1326.6 - 1356.7'	Conglomerate.
1356.4 - 1390.2'	LAMPROPHYRE DIKE - contact sharp at 054 degrees to CA, dark-green, soft, magnetic, biotite 3 - 5%, generally fine-grained, foliated 15 degrees to CA, lower contact at 22 degrees to CA. *BX core 1367 - 1377'
1390.2 - 1403.4'	Conglomerate - prominent stretching of clasts.
1403.4 - 1417'	Greywacke - as previous, foliation weak at 020 degrees to CA.
1417 - 1533'	Conglomerate - notable sericitization of groundmass at 1517' in the quartz albite veining. *BX core 1417 - 1427'
1533 - 1567.2'	FELSIC TUFF/GREYWACKE Intercalated felsic tuff - lapilli tuff - very deformed - sericitic. Fine to medium-grained, pale green, sericitic, contact sharp at 037 degrees to CA, Well foliated at 035 degrees to CA with patchy sub-concordant quartz-albite veinlets and blobs; samples taken of quartz-albite.
1567.2 - 1636'	QUARTZ TUFF - LAPILLI TUFF (may be deformed dike), blue-grey, to grey-green, fine to medium-grained, rounded to ellipsoidal white to grey quartz fragments averaging 3 - 4 mm in a sericite-chlorite groundmass.
Entire zone is strongly deformed with patchy quartz-albite alteration. Samples taken of 5' intervals over length of quartz-albite in strongly deformed tuffs?	
1636 - 1674'	CONGLOMERATE.

FOOTAGE	DESCRIPTION
	TEMISKAMING SEDIMENTS (cont'd)
1636 - 1646'	Deformed conglomerate.
1667 - 1672	Reamed, no core - wedge
1674 - 1686'	Greywacke - sericitic, light-green colour.
1686 - 1699.5'	Altered conglomerate - sericitic, minor quartz-albite and green mica.
1699.5 - 1725'	Greywacke - sericitic, light green colour, numerous rip-up clasts.
1725 - 1818'	Altered conglomerate - sericitic, minor green mica.
1818 - 1853'	Sericitic greywacke - light green colour.
1853'	Grades into unaltered greywacke, dark green colour.
1853 - 1888'	Greywacke, dark green, well-sorted, poorly bedded.
1888 - 1897'	DEFORMED ZONE - in greywacke.
1888 - 1896.2'	Abundant quartz-albite veining.
1896.2 - 1896.5'	Fault gouge.
1897 - 1954'	Greywacke.
1954 - 2107'	Conglomerate.
2107 - 3135'	Greywacke.
2135'	Conglomerate.
2200 - 2222'	Bleached conglomerate, with 1' wide quartz-albite vein at 2209', bedding at 50 degrees to CA.
2222 - 2524.4'	Conglomerate.
2524.4 - 2533.2'	BIMODAL PORPHYRY DIKE - upper intrusive contact at 35 degrees to CA, lower fracture contact at 50 degrees to CA.
2533.2'	Conglomerate.
2626 - 2657'	Sericitic, sheared greywacke (mafic dike?), foliated at 35 degrees to CA.
2647 - 2657'	Very blocky core, bedding at 50 degrees to CA.
2691.3 - 2695.3'	Two 1' wide quartz veins at 50 - 80 degrees to CA, in conglomerate.
2674.2 - 2687.1'	INTERMEDIATE DIKE - with reddish feldspar phenocrysts, fractured and altered(?).

FOOTAGE	DESCRIPTION
	TEMISKAMING SEDIMENTS (cont'd)
	2718.8 - 2721.3' Quartz-albite breccia veining at 50 degrees to CA.
	2727.0 - 2734' Deformed quartz-albite breccia in Lamprophyre Dike, deformed zone ends at 2732'.
	2734 - 2902' Conglomerate - greywacke intercalated.
2902 - 2907.2'	MAFIC SYENITE DIKE
	Upper contact sharp at 052 degrees to CA, lower contact at 085 degrees to CA.
	2907.2 - 2949.5' TRACHYTIC TUFF Fine-grained, fragmental with typical hematitic colour at CA, massive, crystalline with fragments up to 1 cm; minor coarse, disseminated pyrite.
	2949.5 - 2957.2' MAFIC SYENITE Upper contact, chloritic at 055 degrees to CA, sheared; lower contact is irregular.
2957.2 - 3339.0'	BIMODAL PORPHYRY
	Irregular (intrusive) contact with overlying mafic syenite.
	3191.7 - 3192.8' Fine-grained MAFIC DIKE (diabase?), chilled contacts at 45 degrees to CA.
	3193.9 - 3196.3' Fine-grained MAFIC DIKE - as above.
	3234 - 3236' FINE-GRAINED MAFIC DIKE - Upper contact irregular, lower contact at 035 degrees to CA.
	3268.4 - 3270' FINE-GRAINED MAFIC DIKE - fine-grained dark green, upper contact irregular, lower contact at 038 degrees, non-magnetic.
	3290.0 - 3308' MAFIC DIKE - massive fine to medium-grained, in places notably spotty (altered augite?) and saussuritized in the same sections; moderately to strongly

FOOTAGE	DESCRIPTION
	BIMODAL PORPHYRY (cont'd)
	magnetic; upper contact sharp at 070 degrees marked by quartz-epidote veinlets over 6" of core length; some porphyry inclusions evident - dike later than porphyry; lower contact at 35 degrees to CA.
3308 - 3339'	BIMODAL PORPHYRY - massive, porphyry, distinctive red brick colour and bimodal phenocrysts.
3339 - 3487'	DIABASE DIKE
	Medium-grained, massive green-white with subhedral plug (25% plus) up to 1 - 2 mm in size in a fine-grained mafic (pyroxene) groundmass; upper contact is irregular with porphyry.
3487'	END OF HOLE

FOOTAGE DESCRIPTION

BORE HOLE DATA BH NO. N-86-25

DATE 1986	DEPTH (feet)	ACID TEST	WEDGE TOP	WEDGE TYPE	AZIMUTH (degrees)	DIP (degrees)	
July 25	Collar				154	-70	Magnetic
July 27	216					-69.75	Magnetic
July 27	306					-69.75	Magnetic
July 28	365				154	-69.5	Non-magnetic
July 29	540				155	-69	
July 31	1057				157	-66.5	
Aug 2	1200				158	-65.5	
Aug 3	1359				155	-63.5	Magnetic
Aug 3	1367		1341.5	Retriev.		-63	
Aug 4	1417			Retriev.		-63.5	Patchy magnetism
Aug 6	1556				159	-62	Non-magnetic
Aug 7	1656				159	-60	
Aug 7	1667			Retriev.		-59.5	
Aug 9	1736				156	-58	
Aug 13	2233				162	-47.5	5' of non-magnetic
Aug 20	2775				162	-40	Non-magnetic
Aug 20	2978				162	-38	Non-magnetic
Aug 28	3246				159	-38.5	Porphyry
Sept 2	3487						EOH

SIGNED:

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-86-25
PAGE: 1

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au PPB	Mo PPM
521.4 - 522.6'	Graphitic chert in volcanics	31409	1.2		8
537.0 - 542.8'	Highly fractured volcanics with quartz-pyrite-graphite	31410	5.8		2
542.8 - 546.3'	Graphitic chert, sheared, crumbly	31411	3.5		10
546.3 - 548.6'	Sheared volcanic/sediments, quartz veining, pyrite	31412	2.3		6
548.6 - 552.8'	90% quartz veining with up to 2% pyrite	31413	4.2		38
627.0 - 630.0'	Shear zone in tuff with quartz-feldspar veinlets	31414	3.0		6
811.8 - 814.2'	Chloritic, fractured tuff with minor quartz stringers	31415	2.4	7	4
814.2 - 817.0'	Grey quartz vein, less than 1% pyrite; in tuff	31416	2.8	14	4
817.0 - 822.0'	Highly fractured tuff with chlorite-carbonate veining, locally quartz-feldspar	31417	5.0	17	2
822.0 - 827.0'	Highly fractured tuff with chlorite-carbonate veining, locally quartz-feldspar	31418	5.0	12	8
827.0 - 833.0'	Highly fractured tuff with chlorite-carbonate veining, locally quartz-feldspar	31419	6.0	4	4
847.6 - 852.0'	Highly carbonated, shear zone? in tuff, CA = 10 degrees	31420	4.4	4	4
558.3 - 559.2'	Quartz-albite stringers in altered agglomerate	31421	0.9	7	6
569.3 - 571.9'	As above	31422	2.6	10	6
582.9 - 585.5'	Patchy bleaching; alteration and quartz fractures in tuff	31423	2.6	19	4
591.0 - 593.2'	As above	31424	2.2	12	2
596.0 - 599.5'	As above	31425	3.3	8	2
599.5 - 601.5'	As above, abundant	31426	2.0	93	nil
601.5 - 603.2'	As above	31427	1.7	6	2
603.2 - 604.5'	As above, abundant quartz-albite veining	31428	1.3	4	2

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-86-25
PAGE: 2

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au PPB	Mo PPM
1461.9 - 1463.2'	Quartz-albite veining, in bleached conglomerate, less than 1% pyrite	31429	1.3	32	6
1515.7 - 1517'	As above	31430	1.3	5	2
1524.4 - 1526.1'	As above	31431	1.7	15	nil
1532 - 1532.7'	As above	31432	0.7	14	2
1533 - 1534.5'	Quartz-albite veins in sericitic tuff/greywacke	31433	1.5	11	2
1568 - 1572'	As above	31434	4.0	4	2
1580 - 1585'	As above	31435	5.0	11	2
1585 - 1590'	As above	31436	5.0	8	6
1590 - 1595'	As above	31437	5.0	12	6
1595 - 1600'	As above	31438	5.0	12	6
1889.8 - 1892.8'	Abundant quartz-albite veining in sheared greywacke	31439	3.0	139	8
1892.8 - 1894.3'	As above	31440	1.5	182	14
1894.3 - 1896.2'	As above (measuring error in core box)	31441	2.2	110	6
2208.3 - 2209.5'	1-foot wide quartz-albite vein in bleached conglomerate	31442	1.2	93	4
2625.5 - 2627.8'	Quartz-albite breccia in conglomerate	31443	1.3		
2653.3 - 2656.3'	As above, with less than 1% pyrite	31444	3.0		
2691.3 - 2693.2'	White quartz vein in conglomerate	31445	1.9		
2693.2 - 2695.3'	As above, with quartz stringers	31446	2.1		
2695.3 - 2637'	Wall-rock with quartz stringers	31447	1.7		
2698.9 - 2700.7'	Ptygmatic quartz-albite veinlets in brown-altered greywacke	31448	1.8		
2712.3 - 2715.1'	Ptygmatic quartz-albite veinlets in greywacke	31449	2.8		
2718.8 - 2721.3'	Quartz-albite breccia veining in greywacke/ lamprophyre dike	31450	2.5		
2727 - 2731'	Deformed lamprophyre dike with quartz-albite veining	5901	4.0	nil	3
2902 - 2905'	Contact, area between greywacke-mafic syenite	5902	5.0	nil	3
2947 - 2952'	Contact between tuff and mafic syenite	5903	5.0	10	2

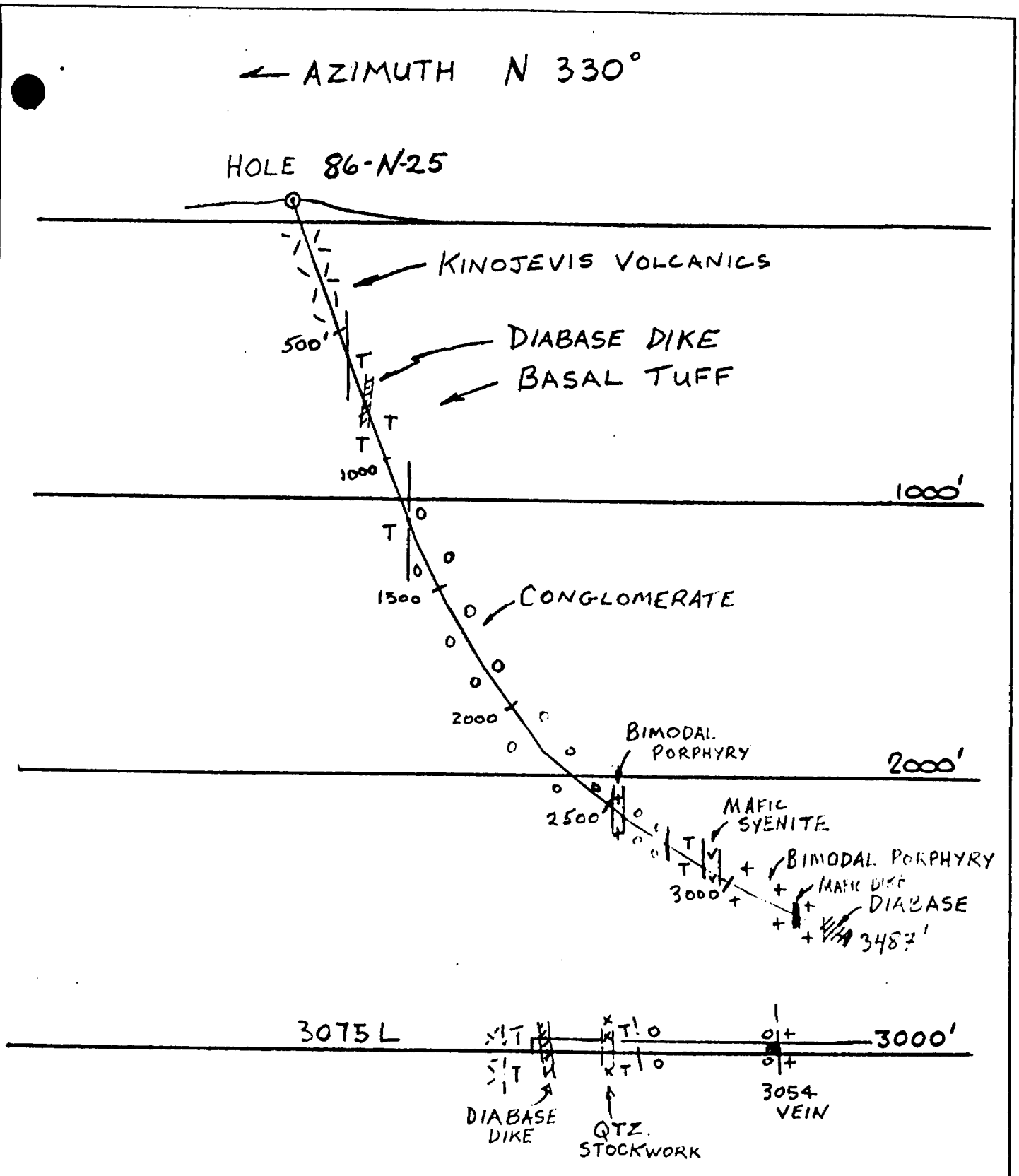
ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-86-25
PAGE: 3

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au PPB	Mo PPM
	TESTING ANOMALOUS SLUDGES				
1897 - 1902'	Foliated greywacke, weakly carbonatized	31394	5.0	10	
1902 - 1907'	Light brown, calcium-carbonate greywacke, with minor quartz-albite	31395	5.0	nil	
1917 - 1922'	Weakly hematized greywacke	31396	5.0	10	
1922 - 1927'	As above	31397	5.0	nil	
2628 - 2632'	Deformed conglomerate with quartz-albite	5505	4.0	nil	
2632 - 2637'	As above	5506	5.0	nil	
2637 - 2642'	As above	5507	5.0	nil	
2642 - 2647'	Deformed conglomerate, as above	5501	5.0	nil	
3234 - 3239'	Diabase dike in bimodal porphyry	5502	5.0	nil	
3239 - 3244'	Bimodal porphyry, blocky core	5503	5.0	100	
3244 - 3249'	Bimodal porphyry	5504	5.0	nil	

SIGNED:



NEWFIELDS MINERALS INC.
KIRKLAND BASIN PROPERTY TECK TOWNSHIP ONT.
VERTICAL SECTION HOLE 86-N-25
SCALE 0 500' 1000'

DRILL LOG HOLE: N-86-26
PAGE: 1

NEWFIELDS MINERALS, INC. - KIRKLAND BASIN PROJECT

STRIKE: (Collar) 160 degrees LOCATION:
DIP: -80 degrees DATE DRILLED: Aug 8 - Sept 12, 1986
LOGGED BY: M Masson, T Twomey
DRILLED BY: Heath & Sherwood Drilling
PURPOSE: Text for BAZ near Lake Shore fault.

FOOTAGE	DESCRIPTION
0 - 6'	OVERBURDEN
6 - 1041'	KINOJEVIS VOLCANICS
	Dark green, patchy magnetic, carbonatized.
	6 - 1033' Pillowed basalts - often with magnetite and calcite in inter-pillow margins.
	6 - 50' Blocky core.
	260 - 287' Blocky core.
	304 - 312' Hyaloclastite breccia with quartz-albite veining at 25 degrees and graphite.
	317' Wedge - steel.
	321.5 - 323' Hematitic pillowed basalts - mauve coloured.
	335 - 385' Blocky core.
	385 - 557' Blocky core continued, some zones highly siliceous with disseminated coarse pyrite, less than 1%.
	563 - 578.5' Irregular quartz veinlets with approximately 3% pyrite, may correspond to surface showing; 569.0 - 570.1', 0.498 opt Au over 1.1'.
	739' Calcite veinlet (1/2').
	771' Calcite veinlet (1').
	828 - 835' Blocky core, minor chalcopyrite on chloritic slip planes, CA at 20 and 30 degrees.
	835 - 1033' Intercalated fine and medium-grained flows with massive aphanitic flows. Coarse flows all noticeably saussuritized to give pale green colouration.
	1017' Retrieve wedge.

FOOTAGE	DESCRIPTION
	KINOJEVIS VOLCANICS (cont'd)
	1033 - 1038' Bleached Volcanics - very fine-grained to aphaitic (light green-grey with sub-conchoidal fracture. Weak to strong foliation developed at 55 degrees to CA; in places patchy quartz stockworking (breccia).
	1038 - 1041' GRAPHITIC SCHIST - upper contact is irregular and shallow at 12 degrees to CA, lower contact is broken, blocky core, pebbly pyrite 1% along shear places at 10 - 15 degrees to CA.
	1041 - 1071' Bleached volcanics with graphitic breccia.
1071 - 2703'	BASAL TUFF
	1071 - 1079' Tuff/Sediments - fine-grained, banded intercalate tuff, upper contact marked by quartz stockworking, lower contact sharp at 025 degrees to CA; fragments generally averaging 1 mm but reach up to 1 cm in places; foliated at 035 degrees to CA.
	1079' Felsic Tuff(?), with banded light green to grey, foliated, 025 - 055 degrees to CA; very fine-grained to cherty with sericite developed along foliation (bedding) planes; abundant quartz fracturing fillings 1 - 2 mm wide, and graphitic slips.
	1165 - 1167' Quartz-sericite breccia zone immediately above spotted dike.
	1167 - 1171.5' GREEN SPOTTED DIKE - upper contact is very irregular and at low angles 10 - 15 degrees to CA; lower contact at 035 degrees, sharp and marked by presence of euhedral pyrite (3%) averaging 1 - 2 mm over 1" of core length.

FOOTAGE	DESCRIPTION
	BASAL TUFF (cont'd)
1171.5 - 1215'	Fine-grained, light green tuff/wacke, massive, and well bedded at 20 degrees to CA; sections are very siliceous and cherty.
1215'	INTERCALATED TUFF-AGGLOMERATE Fine-grained tuff intercalated with coarse fragmental schists, light green-grey in colour with rounded to angular fragments from 1 mm - 5 cm in size. Clasts population grades from 2 - 5% to up to 60 - 70% where it is clast supported; agglomerate horizons vary from 3 - 4 inches wide to over 20 feet.
1301 - 1370'	Hematized tuff-agglomerate, intercalated tuff-agglomerate with red-purple colouration due to hematization.
1370 - 1390'	Light green, unaltered tuffs/wacke, generally fine-grained, poorly banded.
1390 - 1936'	Hematized wacke/agglomerate, non-magnetic, intercalated in the non-hematized wacke/agglomerate
1936 - 1938.5'	GREEN SPOTTED DIKE - green-red spotted dike at 025 degrees to CA; dike is altered with quartz-albite stringers (breccia), no visible sulphides.
1938.5 - 2311'	TUFF/WACKE AND AGGLOMERATE - fine to medium-grained, blue-grey colour, massive to weakly foliated; very homogeneous; some sections grade to coarse agglomerate, hematization in localized sections.
2211.5 - 2212.3'	GREEN SPOTTED DIKE - contacts parallel to schistosity at 50 degrees to CA.
2222.2 - 2227.6'	GREEN SPOTTED DIKE(S) - irregular contacts.
2311 - 2373'	Light-green coloured tuff/wacke, gradational colour contacts, exhibits numerous sedimentary textures, rip-up clasts, graded bedding; with minor agglomerate sections.

FOOTAGE	DESCRIPTION
	BASAL TUFF (cont'd)
	2373' Light brown coloured TUFF AND AGGLOMERATE, slightly hematitic, gradational colour contacts with light-green tuff.
	2400' Bedding at 25 degrees to CA.
	2400 - 2703' Sericitic, pale-green, fine-grained tuff, moderately-well foliated at 55 degrees to CA, abundant zones contorted, folded quartz-albite veins in pale-green sericitic tuff.
	2665 - 2703' Deformed zone, schistose at 30 - 45 degrees, with numerous ptygmatic quartz-albite veinlets
2703 - 3432'	TEMISKAMING SEDIMENTS - CONGLOMERATE
	Jasperoidal, polymictic conglomerate, foliated and stretched pebbles at 30 - 40 degrees to CA.
	2703 - 2780' Sericitic zone, in conglomerate, light-green colour.
	2780 - 2835' Grades into darker coloured conglomerate, pebble elongation at 55 - 60 degrees to CA.
	2990 - 3040' More deformed, elongated pebbles, bleached lighter colouration, minor carbonate infilling between pebbles.
	3100 - 3200' Pebble fabric at 070 - 075 degrees to CA, hole flattening sharply.
	3200' Pebble fabric 75 - 90 degrees to CA, conglomerate intercalated with fine-grained greywacke.
	3326 - 3327' Quartz-albite veining in highly deformed sericitic conglomerate/ wacke.
	3432 - 3437' BROKEN BLOCKY CORE - FAULT - marks change from conglomerate/ wacke to volcanic, probably is the Lake Shore Fault.
3437 - 3521'	KINOJEVIS VOLCANICS
	3437 - 3439' HEMATIZED MAFIC VOLCANICS - fine-grained strongly foliated mafic volcanics, distinctive purple hue, hematized.

FOOTAGE	DESCRIPTION
	KINOJEVIS VOLCANICS (cont'd)
3439 - 3521'	MAFIC VOLCANICS - fine, very fine-grained, massive to strongly foliated at 62 degrees to CA, grades into a leucoxene-rich (spotty) mafic volcanic with a slight blue hue; is magnetic.
3447 - 3450'	Quartz-albite veining.
3472 - 3521'	Hyaloclastite, bleached, light-green colour, fine-grained, non-magnetic.
3521'	END OF HOLE

FOOTAGE DESCRIPTION

BORE HOLE DATA BH NO. N-86-26

DATE 1986	DEPTH (feet)	ACID TEST	WEDGE TOP	WEDGE TYPE	AZIMUTH (degrees)	DIP (degrees)	
Aug 8	Collar					-80	Head set at -80 degrees (boulder at 75 degrees) Gyro -153 degrees
Aug 10	83					-79.5	Blocky core with highly magnetic quartz-magnetite veins
Aug 10	80					-79.5	Azimuth unsure-dip good
Aug 11	236					-79	
Aug 11	230				160	-79.5	Non-magnetic
Aug 12	324			Retriev.		-79	Wedge fell 6 feet
Aug 11	183				160	-79.5	Tests in non-magnetic sections of Kinojevis
Aug 11	37				161	-80	
Aug 13	324		305	Steel			Replace retriev. with steel wedge
Aug 16	554				154	-78.5	Patchy magnetism
Aug 18	840				158	-77	Non-magnetic
Aug 19	1006				160	-76	Magnetic
Aug 19	1014				160	-76.5	Non-magnetic
Aug 19	1017			Retriev.			
Aug 21	1062				155	-75.5	Non-magnetic
Aug 24	1453				154	-66	Non-magnetic
Aug 28	1928				153	-58	Non-magnetic
Sept 2	2540				154	-48	Non-magnetic
Sept 9	3249				153	-17	Patchy magnetism
Sept 12	3521					horiz(?)	EOH

SIGNED:

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-86-26
PAGE: 1

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au PPB	Mo PPM
569.0 - 570.1'	Quartz-carbonate vein at 20 degrees to CA with 3% disseminated pyrite	6131	1.1	.498opt	100
577.2 - 578.4'	Quartz-albite vein in mafic volcanics, at 45 degrees to CA	6132	1.2	177	6
309.5 - 311.8'	Quartz-albite breccia in inter-pillow margin	6133	1.3	67	6
305.2 - 306.4'	Quartz-albite veinlet in hyaloclastite	6134	1.2	51	6
306.4 - 309.4'	As above	6135	3.0	44	4
1038 - 1043'	Graphitic sediments with 1% blocky pyrite	6136	5.0	45	5
1068 - 1073'	Quartz-albite-graphite in tuff	6137	5.0	nil	5
1165 - 1167'	Quartz-sericite in tuff/wacke	6138	2.0	nil	5
1192 - 1197'	Fine-grained sericitic tuff with less than 1% coarse (1 mm) euhedral pyrite	6139	5.0	nil	1
1346.2 - 1348.2'	Quartz-albite breccia in hematized tuff/wacke	6140	2.0	nil	4
1494 - 1496.4'	Minor quartz-albite stringers in bleached tuff	6141	2.4	nil	2
1936 - 1938.5'	Spotted Dike with quartz-albite brecciation	6142	2.5	nil	3
2220.8 - 2222.5'	Irregular quartz-albite veinlets at dike/tuff contact	6143	1.5	nil	nil
2324.4 - 2326.9'	Irregular quartz-albite veinlets in tuff	6144	2.0	nil	nil
2354.5 - 2359'	As above	6145	4.5	nil	3
2662 - 2664'	Folded quartz-albite in sericitic tuff	6146	2.0	nil	nil
2670 - 2672'	As above	6147	2.0	nil	nil
2678 - 2682'	As above	6148	4.0	nil	nil
2698.7 - 2699.7'	As above	6149	1.0	nil	nil
2701.3 - 2702.6'	As above	6150	1.3	nil	nil
3177 - 3189'	Blocky - Pebble core (3 feet of it?) in conglomerate (Fault?)	6151	?	30	
3429 - 3432'	Strongly foliated greywacke	6152	3.0	nil	

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-86-26
PAGE: 2

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au PPB	Mo PPM
3432 - 3437'	Fault; gravel consisting of quartz, wacke and volcanics	6153	5.0	10	
3437 - 3439.9'	Foliated mafic volcanics with quartz-albite veining	6154	2.9	10	
3442.3 - 3443.2'	As above, less than 1% disseminated pyrite	6155	0.9	nil	
3445.2 - 3447.4'	Foliated mafic volcanics with quartz-albite veining, less than 1% pyrite	6156	2.2	nil	
3447.4 - 3449.8'	As above, abundant veining	6157	2.3	nil	
3449.8 - 3452.7'	As 6156	6158	2.9	nil	
3473.5 - 3474.9'	Quartz-albite veining in bleached volcanics	6159	1.4	nil	
3476.7 - 3477.6'	Sheared dike(?) with quartz-albite veining	6160	0.9	nil	
	TESTING ANOMALOUS SLUDGE ZONES				
3032.7 - 3034'	Deformed conglomerate	6161	1.3	nil	
3439 - 3044'	As above	6162	5.0	10	
3046 - 3051'	As above	6163	5.0	nil	
3452.7 - 3457.7'	Dark-green mafic volcanics	6164	5.0	nil	
735 - 736.0'	Calcite cemented inter-pillow breccia	6165	1.0	nil	
738.5 - 739.5'	1/2-foot wide quartz-albite vein at 35 degrees to CA, in pillow basalt	6166	1.0	nil	
	TESTING ANOMALOUS SLUDGES				
563 - 569'	Pillowed volcanics - slightly altered	31391	5.0	120	13
570.1 - 574'	As above - quartz-albite-sericite alteration	31392	3.9	40	8
574 - 577.2'	As above, trace minor	31393	3.2	nil	3

SIGNED:

DRILL LOG HOLE: N-86-27
PAGE: 1

NEWFIELDS MINERALS, INC. - KIRKLAND BASIN PROJECT

STRIKE: (Collar) 330 degrees LOCATION:
DIP: at collar -65 degrees DATE DRILLED: September 5 - 27, 1986
LOGGED BY: T. Twomey, M. Masson
DRILLED BY: Heath & Sherwood Drilling
PURPOSE: Test rock types near Lake Shore fault.

FOOTAGE	DESCRIPTION
0 - 12'	OVERBURDEN
12 - 144'	MAFIC SYENITE
	Massive medium-grained, green-red colour, strongly magnetic.
	12 - 20' NX core from collar.
	104 - 144' Baked (hematized) margin, increasingly hematite-leucoxene rich. Contact with porphyry is sharp at 045 degrees.
144 - 923.8'	BIMODAL PORPHYRY
	Massive, porphyritic.
	155 - 158' Blocky core with subparallel fractures to core axis.
	229 - 241' RED SPOTTED DYKE (Mafic Syenite?) Fine-to-medium-grained grey-brown, massive to weakly foliated at 30 - 45 degrees to CA. Magnetic with leucoxene and red (altered) an-subhedral plagioclase phenocrysts averaging 1 mm in a dark, fine-grained chloritic matrix. Upper contact is irregular, marked by 1 - 2 inch quartz-albite. Lower contact is sharp but irregular at very low angles to CA. Ground still blocky and fractured.
	296 - 310' ALTERED PORPHYRY - pale green feldspar porphyry (sericitic), gradational with red bimodal porphyry, sub-anhedral pale-white feldspar phenocrysts (5 - 10%) in a pale green, sericitic matrix. Small mafic syenite inclusions (dyke) at 480' - 481.2' within bimodal porphyry.
	446 - 448' Blocky, chloritic core.
	499 - 500.4' DYKE? - pale green, sericitic dyke, fine-grained to medium-grained, foliated at 040 degrees to CA. Contacts are

FOOTAGE	DESCRIPTION
	BIMODAL PORPHYRY (cont'd)
	sharp. Upper contact is irregular (intrusive), lower contact at 65 degrees to CA. Some euhedral green mineral (altered plagioclase) up to 1/2 cm.
573 - 579.2'	ALTERED PORPHYRY - pale green, altered porphyry, sericite-leucoxene rich. Fine-grained to medium-grained, massive to foliated with minor quartz-albite veinlets.
574 - 575'	May be a dyke similar to 499 - 500.4'. Foliated at 040 degrees to CA, minor pyrite visible in one section of the dyke.
592 - 595'	FOLIATED DYKE - as above. Foliated at 50 degrees to Ca. Contacts marked by blocky core.
706 - 732'	Altered bimodal porphyry with some intercalations of non-altered porphyry. Altered zones are gradational, yellow-green in colour and vary from medium-grained with euhedral plagioclase to fine-grained and foliated with abundant sericite-leucoxene. Quartz-albite veinlets present in altered zones. This alteration is patchy throughout this section of porphyry (500 - 850').
795 - 797.2'	SPOTTED DYKE - Porphyritic? strongly foliated (mylantic) dyke. Blue-green coloured matrix with sub-anhedral green and red phenocrysts, some displaying lath shapes (feldspar?); others are pseudo-snowballed quartz. Matrix is very fine-grained and appears to be a sericite-leucoxene-plagioclase mixture. Contacts are sharp. Upper contact marked by quartz-sericite (1/2 inch wide) at 15 degrees to CA. Porphyry is slightly altered above dyke. Lower contact is also shallow to CA but is broken up. Below dyke is altered.
797.2 - 802'	ALTERED PORPHYRY - as previously but with a 1 foot section of quartz-sericite veining.
872 - 900'	Very blocky ground.

FOOTAGE	DESCRIPTION
	BIMODAL PORPHYRY (cont'd)
	882 - 885' GREEN SPOTTED DYKE - distinctive blue-green colour with red-green phenocrysts. Very distinctive mottled texture. Upper Contact at 045 degrees to CA, lower contact is irregular and blocky core.
	885 - 923.8' Fractured porphyry, blocky core, fractures at various angles, dominant set at 60 degrees to CA.
	914 - 914.3' FAULT, at 40 degrees to CA, with mud seam.
	922.3 - 923.8' Altered and fractured porphyry, minor quartz-albite veinlets.
	923.8 - 924.5' FAULT, with mud seam, at contact of porphyry and conglomerate.
924.5 - 1338'	TEMISKAMING SEDIMENTS - CONGLOMERATE
	Contains numerous orange-coloured syenite/trachyte boulders.
	924.5 - 926.5' Blocky core near fault zone.
	926 - 959' Conglomerate, pebble elongation at 25 degrees to CA.
	959 - 964' Bloky, fractured conglomerate; fault?
	996 - 1338' SERICITIC ZONE - in conglomerate, gradational contacts. Greenish-yellow colouration wih minor green mica and quartz-albite veining. Pebble elongation at 15 - 30 degrees to CA.
	1083 - 1101' Sericitic Greywacke.
	1150' Pebble elongation at 30 degrees to CA.
	1194 - 1195' Fluorite open-space filling in quartz-albite veinlets within sericitic conglomerate.
	1260 - 1320' As above.
1338 - 2529.5'	BASAL TUFF (Temiskaming)
	1338 - 1448' SERICITIC TUFF - light yellow-green, very fine-grained, moderately to strongly foliated at 025 degrees to CA. Highly sericitic with abundant quartz-albite veining in places. Upper contact marked by 2.4' of quartz-albite veining with conglomerate. Lower contact is sharp at 035 degrees with Basal Tuff.

FOOTAGE	DESCRIPTION
	BASAL TUFF (cont'd)
1448 - 2529'	BASAL TUFF/AGGLOMERATE - dark brown, hematitic, carbonatized, pebble elongation at 30 - 35 degrees to CA.
1468 - 1476'	DYKES - irregular discordant contacts with agglomerate; are fine-grained, dark-grey.
1527.2 - 1537'	Patchy alteration of lapilli tuff (sericitization?).
1561.5 - 1574.8'	Patchy sericitization of fine-grained tuff, buff colourations with minor quartz-albite veinlets.
1574.8 - 1617.5'	Hematitic tuff/agglomerate as before.
1617.5 - 1629'	Patchy sericitization with minor quartz-albite veinlets and less than 1% disseminated pyrite.
1629 - 1820'	Hematitic, dark-coloured, as before.
1820 - 1840'	Spotty bleaching in hematitic tuff/agglomerate.
1862 - 1950'	Well banded very fine-grained tuff/wacke, light green intercalated with coarse-grained agglomerates. Strong hematization is evident, intercalated with unaltered, sericitic units. Bedding at 40 degrees to CA.
1862 - 2032'	Basal Grit intercalated with fine-grained, bedded, sericitic tuff.
2032 - 2131'	Bedded tuff/sediment; dark-grey, fine-grained exhibiting graded bedding and convoluted bedding with possible mud-ball(?) elastic texture.
2131 - 2162.3'	Intercalated Agglomerate/Breccia and Greywacke (Basal Grit) - coarse-grained rounded to angular fragments up to 2 cm in a fine-to-medium-grained wacke matrix intercalated with massive wacke and minor graphitic sections. Weakly foliated at 035 degrees to CA.
2162.3 - 2286.6'	SERICITIC TUFF - well bedded, very fine-grained light yellow-green (felsic) tuff/wacke. Bedding 040 - 050 degrees to CA. In places very cherty with abundant quartz (blue-grey) infilling fractures which display microfaulting. Prominant foliation in places at 027 degrees to CA.

FOOTAGE	DESCRIPTION
	BASAL TUFF (cont'd)
	2245 - 2286.6' Hairline black sulphides, introduced along bedding planes in sericitic tuff.
	2286.6 - 2304.3' LAMPROPHYRE DYKE, grey-coloured, chlorite phenocrysts, contacts at 55 degrees to CA.
	2304.3 - 2362.7' Sericitic tuff - numerous sedimentary features ie) reworked.
	2362.7 - 2371.1' ALTERED LAMPROPHYRE DYKE - green-spotted with abundant quartz-albite veining at upper contact, lower contact at 70 degrees to CA.
	2374 - 2379' Knots of disseminated sulphides, spotted texture in sericitic tuff.
	2497 - 2499.2' Blocky core - quartz-albite-sericite-graphite veining in tuff.
	2503 - 2513' Well bedded tuff/sediments. Bedding at 65 degrees to CA.
2529.5 - 2773'	KINOJEVIS VOLCANICS
	Contact marked by 1 inch of quartz-sericite at 20 degrees to CA. Unit is massive, fine-grained to medium-grained, grey-green with abundant quartz-albite veinlets.
	2574 - 2577' Quartz-albite breccia veining.
	2586 - 2589' Quartz-albite breccia veining.
	2610 - 2615' Quartz-albite breccia veining.
	2618 - 2639' Calcite and chlorite amygdules.
	2703 - 2706' Quartz-albite breccia veining.
	2751 - 2754' Flow-top breccia.
	2761 - 2773' Glomeroporphyritic (feldspar) basalt.
2773'	END OF HOLE

FOOTAGE DESCRIPTION

BORE HOLE DATA BH NO. N-86-27

DATE 1986	DEPTH (feet)	ACID	WEDGE TOP	WEDGE TYPE	AZIMUTH (degrees)	DIP (degrees)	
	Collar				330	-65	
Sept 10	729				330	-62	Non-magnetic porphyry.
Sept 12	1099				325	-60	Non-magnetic.
Sept 15	1397				322	-57	Non-magnetic.
Sept 17	1716				321	-52	Non-magnetic.
Sept 24	2460				320	-42	Non-magnetic.
Sept 26	2616				320	-40	Non-magnetic.
Sept 27	2769				318	-38	
Sept 27	2773						END OF HOLE

SIGNED:

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-86-27
PAGE: 1

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au PPB	Mo PPM
296 - 301'	Altered bimodal porphyry (sericitized)	5904	5.0	nil	
301 - 306'	As above	5905	5.0	nil	
118.7 - 123.5'	Baked, red-altered mafic syenite with quartz-filled fractures	5906	4.8	nil	
123.5 - 126.1'	As above	5907	2.6	nil	
131.9 - 137'	As above, loss of carbonate	5908	5.1	nil	
137 - 140.1'	As above, loss of carbonate	5909	3.1	nil	
140.1 - 144.0'	As above, loss of carbonate	5910	3.9	nil	
144 - 144.8'	Bimodal porphyry, at contact with mafic syenite	5911	0.8	nil	
573 - 579.2'	Altered porphyry and dike with minor pyrite	5912	6.2	nil	
797.2 - 802'	Altered porphyry with quartz-sericite veining	5913	4.8	nil	
922.3 - 923.8'	Fractured and altered porphyry, minor quartz-albite veinlets	5914	1.5	nil	
1005.7 - 1007.0'	Quartz-albite veinlets in sericitic conglomerate, minor green mica	5915	1.3	nil	
1010.2 - 1010.8'	As above	5916	0.6	nil	
1077.7 - 1079.5'	Quartz-albite veinlets and chloritic breccia, in sericitic conglomerate	5917	1.8	nil	
1338.2 - 1340.7'	Quartz-albite veinlets in sericitic conglomerate	5918	2.5	nil	
1344.3 - 1345.5'	As above, brecciated	5919	1.2	nil	
1384.2 - 1386.4'	Quartz-albite veinlets in sericitic tuff	5920	2.2	nil	
1396.6 - 1398.2'	As above	5921	1.2	nil	
1407 - 1408.2'	As above, traces of galena, chalcopyrite in quartz vein	5922	1.2	nil	
1410.7 - 1413.3'	As above	5923	2.6	20	
1416.6 - 1418.0'	As above	5924	1.4	10	
1427.8 - 1429.6'	As above, traces of galena in quartz vein	5925	1.8	10	
1437.0 - 1438.2'	As above	5926	1.2	nil	
1440 - 1443.5'	As above	5927	3.5	nil	
1446.7 - 1448'	Sericitic tuff, bounded by hematitic tuff	5928	1.3	nil	

ASSAY REPORT

PROPERTY: Newfields Minerals Inc.
Teck Township

HOLE: N-86-27
PAGE: 2

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	Au PPB	Mo PPM
1626.5 - 1628.8'	Sericitic tuff, minor quartz-albite veinlets, less than 1% disseminated pyrite	5929	2.3	nil	
1699.4 - 1700.4'	Hematitic tuff, with quartz-albite veinlets	5930	1.0	nil	
2331.5 - 2333.3'	Quartz-albite veining in sericitic tuff	5931	1.8	nil	
2360.8 - 2363.8'	As above, at contact with lamprophyre dike	5932	3.0	nil	
2304.6 - 2305.7'	Sericitic contact between tuff/dike with 1% disseminated pyrite	5933	1.1	nil	
	TESTING ANOMALOUS SLUDGE ZONES				
2057 - 2059.7'	Grey tuff, convoluted bedding	5518	2.7	nil	
2059.7 - 2060.7'	As above, with 3-inch wide quartz vein	5519	1.0	nil	
2060.7 - 2067'	As above	5520	6.3	nil	
2427.7 - 2428.6'	Quartz-albite vein at 45 degrees to CA, with 1% disseminated pyrite	5521	0.9	nil	
2497 - 2499'	Quartz-albite vein breccia in fault	5522	2.0	nil	
2523.4 - 2524.9'	Quartz-albite-sericite in pillow selvedge, less than 1% pyrite	5523	1.5	nil	
2528.9 - 2529.7'	As above	5524	0.8	nil	

SIGNED:

200
424818139 63.5629 TECK

Scale 1:2 000

Contour Interval 1 Metre

TECK 80°02' 30"

DISTRICT OF TIMISKAMING

TECK TOWNSHIP

80°03' 10"

80°03' 20"

80°03' 30"

570000 mE

L 2566

L 2605

L 2606

L 1557

L 16635

L 2242

L 3601

L 1239

L 1238

TAILINGS

L 2645

L 1240

L 2243

ONTARIO NORTHLAND RAILWAY

L 1825

HS 1198

L 2103

TC 710

DIABASE

L 3090

NAIL

TH 125 N-15

TH-127

L 3301

71898

L 1754

71900

L 1939

L 2859

L 3442

72712

L 2832

L 2516

L 2515

L 2624

L 3909 1

L 2255

70694

L 2874

L 6936

L 14897

L 14898

L 10795

L 6938

L 6939

85-N-16

60-J-4 (APPROX.)

85-N-7

85-N-8

85-N-9

85-N-10

85-N-12

N-13 (8.11)

N-14

N-20

N-22

N-23

N-86-24

60-T-2 N-18

60-T-3

L36-1

L36-2

L36-3

EOH

16A

16B

17A

17C

17E

18A

18B

19A

19B

20A

21

30

31

33

35

26

17

19

Rw-1

Rw-2

Rw-3

V-1

V-3

V-4

(1)

(2)

(P)

SURFACE

1000 Ft

2000 Ft

3000 Ft

4000 Ft

5000 Ft

TRACHYTIC TUFF

FELDSPAR PORPHYRY DIKE

MAFIC SYENITE

dk

800

FELDSPAR PORPHYRY DIKE

MAFIC

1000

1000 Ft

SYENITE

1500

FELDSPAR PORPHYRY DIKE

Base Line

MAFIC

2000

2000 Ft

SYENITE

2500

BIMODAL

3000

PORPHYRY

3000 Ft

3500

3665' EOH-16

90

210

16B

4000

4000

TEMISKAMING

16B

4500

4500

4739 EOH-16A

4739 16A-EOH

3665 16

SEDIMENTS

4739 16A

16-EOH 3665

5000

BASAL TUFF

porphyritic

Basal Brit

sanssuritic

5322' 16B

KINOJEVIS VOLCANICS

SECTION

PLAN

341°

LEGEND

- DIABASE DIKES 5322'
- MAFIC DIKES
- QTZ. FELDSPAR PORPHYRY (BIMODAL)
- FELDSPAR PORPHYRY
- MAFIC SYENITE
- CONGLOMERATE/GREYWACKE
- DEBRIS FLOW
- TUFF - MAFIC/FELSIC
- MAFIC VOLCANICS

85-N-16

NEWFIELDS MINERALS INC.

KIRKLAND BASIN PROPERTY

TECK TOWNSHIP ONTARIO

SCALE 1: 2000 or 1" = 167' (APPROX)

METERS 100 0 100

FEET 100 0 100 200 300 400 500 600

Drawn by: J. P. Mucklow.

42A01NE0139 63.5828 TECK

SURFACE

1000 Ft

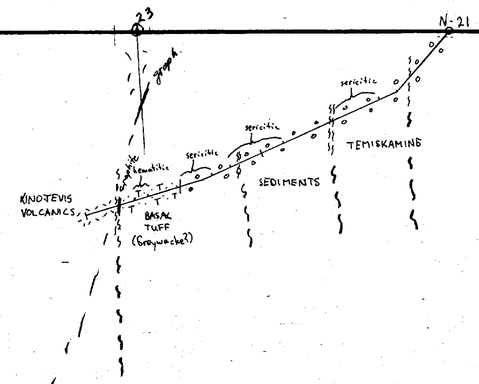
2000 Ft

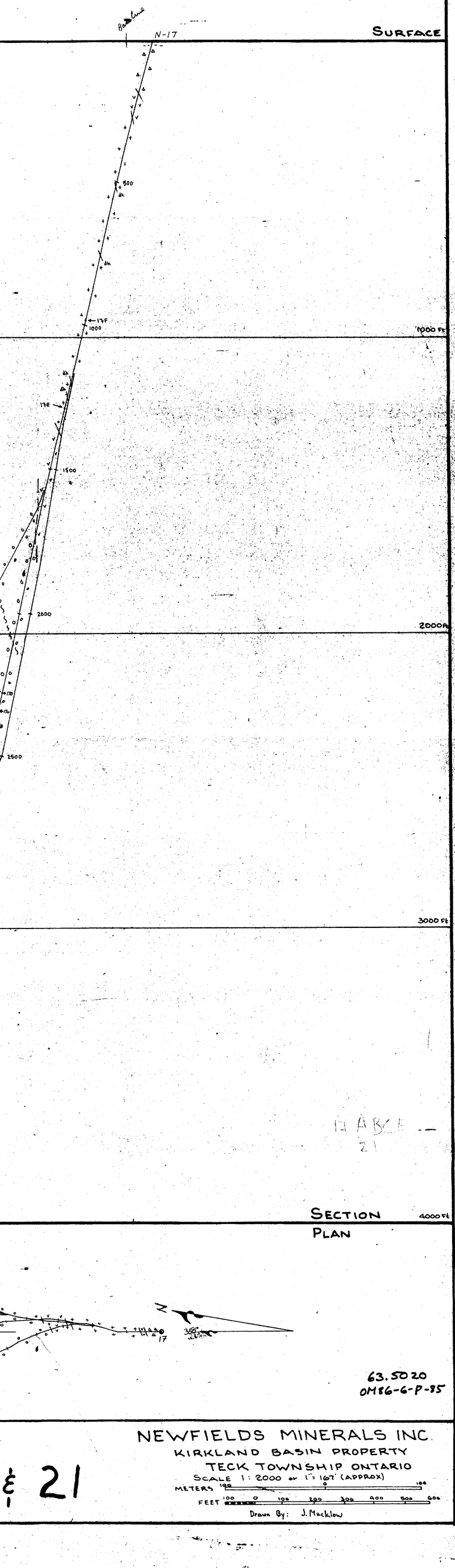
3000 Ft

4000 Ft

SECTION

PLAN





LEGEND

- DIABASE DIKE
- MAFIC-INTERMEDIATE DIKES
- RHYOLITE PORPHYRY
- FELDSPAR PORPHYRY
- DEBRIS FLOW
- TEMISKAMING SEDIMENTS (Conglomerate/Greywacke)
- BASAL TUFF
- TRACHYTIC TUFF
- KINOJEVIS VOLCANICS

63.5020
OM86-6-P-85

N-85-17, A, B, C, E & 21

NEWFIELDS MINERALS INC.
KIRKLAND BASIN PROPERTY
TECK TOWNSHIP ONTARIO
SCALE 1:2000 or 1" = 167' (APPROX)
METERS 100 0 100
FEET 100 0 100 200 300 400 500 600
Drawn By: J. Mucklow

42A01NE0139 63.5020 TECK
220

SURFACE

1000 Ft

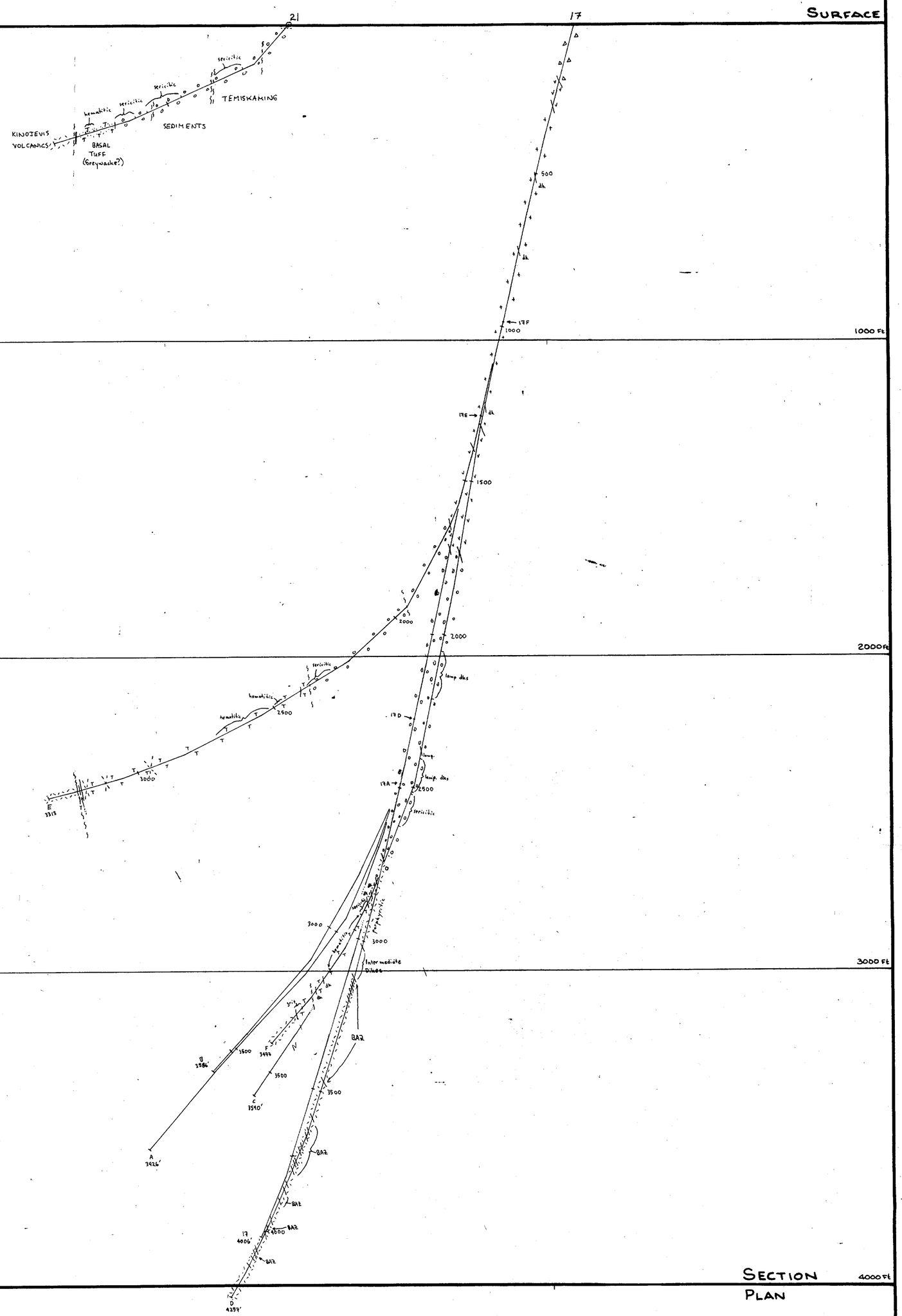
2000 Ft

3000 Ft

4000 Ft

SECTION

PLAN



LEGEND

- DIABASE DIKES
- MAFIC DIKES
- QTZ FELDSPAR PORPHYRY (BIMODAL)
- FELDSPAR PORPHYRY
- CONGLOMERATE/GREYWACKE
- DEBRIS FLOW
- TUFF - MAFIC/FELSIC
- MAFIC VOLCANICS

N-85-17, D, E, F & 21

63.5020

OM 86-6-P-85

NEWFIELDS MINERALS INC

KIRKLAND BASIN PROPERTY

TECK TOWNSHIP ONTARIO

SCALE 1:2000 or 1" = 167' (APPROX)

METERS 100 0 100

FEET 100 0 100 200 300 400 500 600

J. Mucklow

42A01NE0139 63.5020 TECK

SURFACE

1000 Ft

2000 Ft

3000 Ft

4000 Ft

SLUDGE PROFILE (19D)

19A

19B

19D

2D

3D

BIMODAL PORPHYRY

MAFIC SYENITE

Intermediate Dike

TEMISKAMING SEDIMENTS

KINOJEVIS VOLCANICS

Basse Line

Sericitic Alt'n

Porphyritic

BROWN ALTERED ZONE

BAZ

dikes

dike

19E 3760'

19C 3986'

3844' 19F

4298'

SECTION

PLAN

63.5020

OM86-6-P-85

N-86-19

LEGEND

- DIABASE DIKES
- MAFIC DIKES
- QTZ FELDSPAR PORPHYRY (BIMODAL)
- FELDSPAR PORPHYRY
- MAFIC SYENITE
- CONGLOMERATE/GREYWACKE
- DEBRIS FLOW
- TUFF - MAFIC/FELSIC
- MAFIC VOLCANICS

NEWFIELDS MINERALS INC.

KIRKLAND BASIN PROPERTY

TECK TOWNSHIP ONTARIO

SCALE 1 : 2000 or 1" = 167' (APPROX)

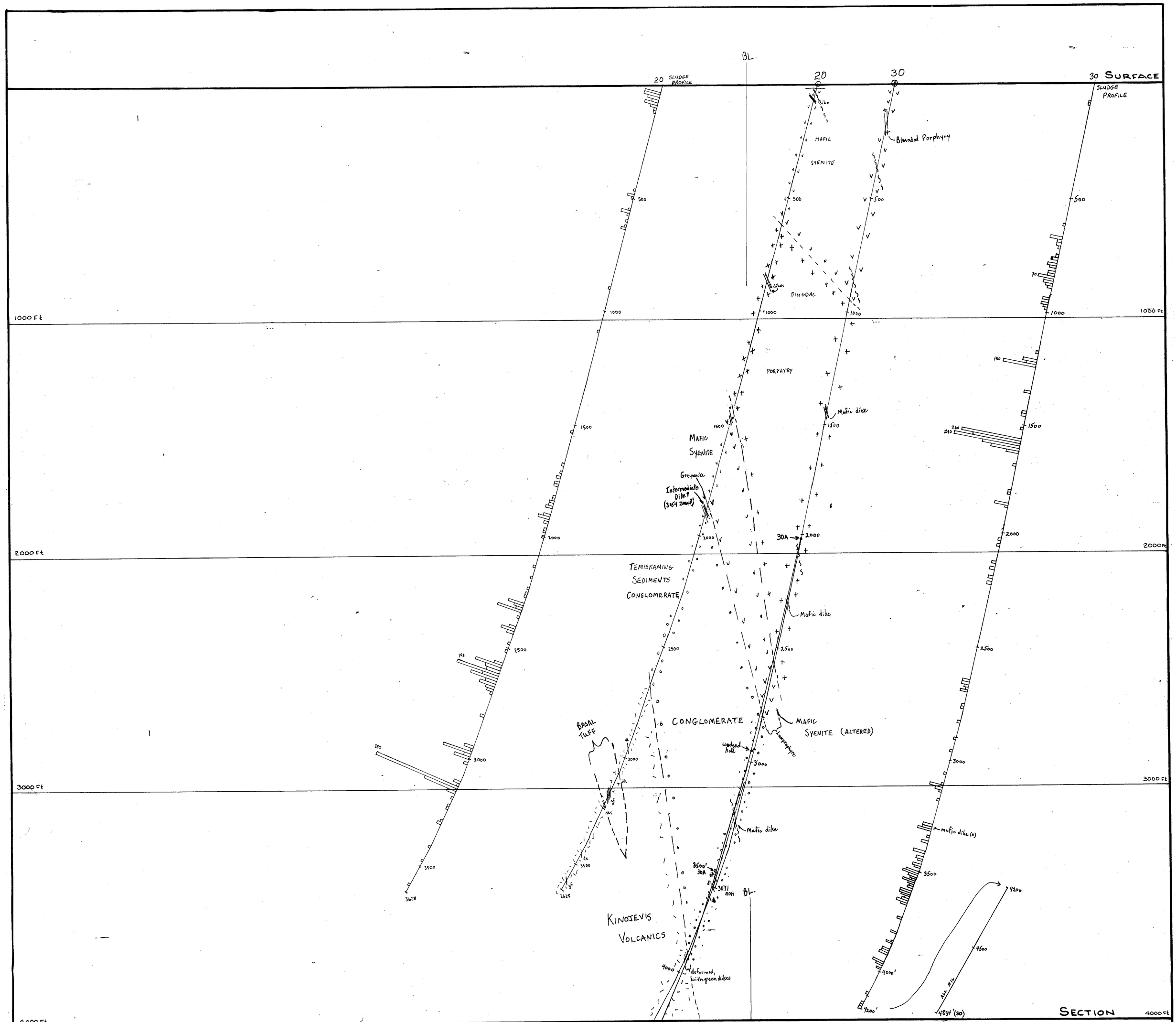
METERS 100 0 100

FEET 100 0 100 200 300 400 500 600

Drawn by: J.P. Mucklow, T. Twomey

42A01NE0139 63.5020 TECK

N-86-20



63.5020
OM86-6-P-85

LEGEND

- DIABASE DIKES
- MAFIC DIKES
- QTZ FELDSPAR PORPHYRY (BIMODAL)
- FELDSPAR PORPHYRY
- MAFIC SYENITE
- CONGLOMERATE/GREYWACKE
- DEBRIS FLOW
- TUFF - MAFIC/FELSIC
- MAFIC VOLCANICS

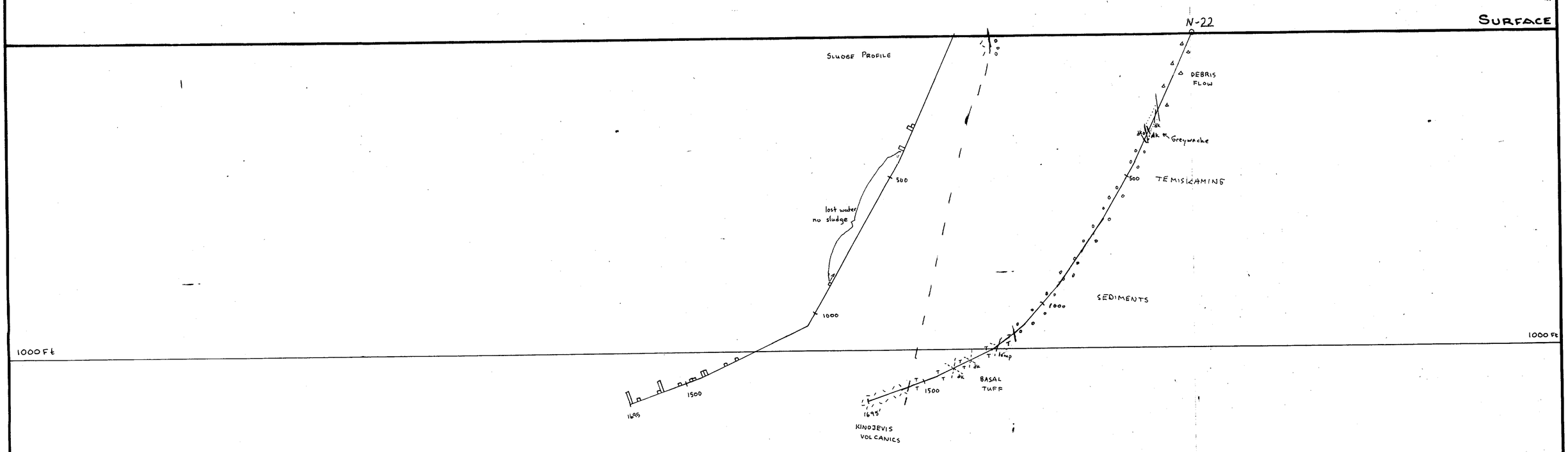
N-86-20 + 30, 30A

NEWFIELDS MINERALS INC
KIRKLAND BASIN PROPERTY
TECK TOWNSHIP ONTARIO
SCALE 1: 2000 or 1" = 167' (APPROX)
METERS 100 0 100
FEET 100 0 100 200 300 400 500 600
Drawn by: J. P. Mucklow, T. Twomey

42A01NE0139 63.5020 TECK

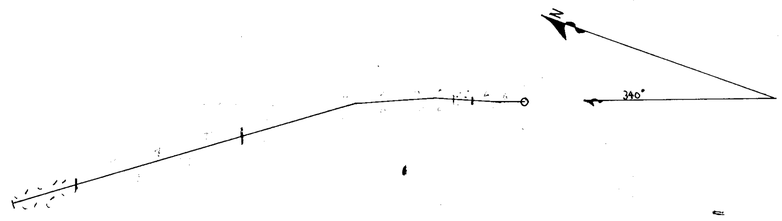
N-86-22

SURFACE



SECTION

PLAN



63.5020
OM86-6-P-85

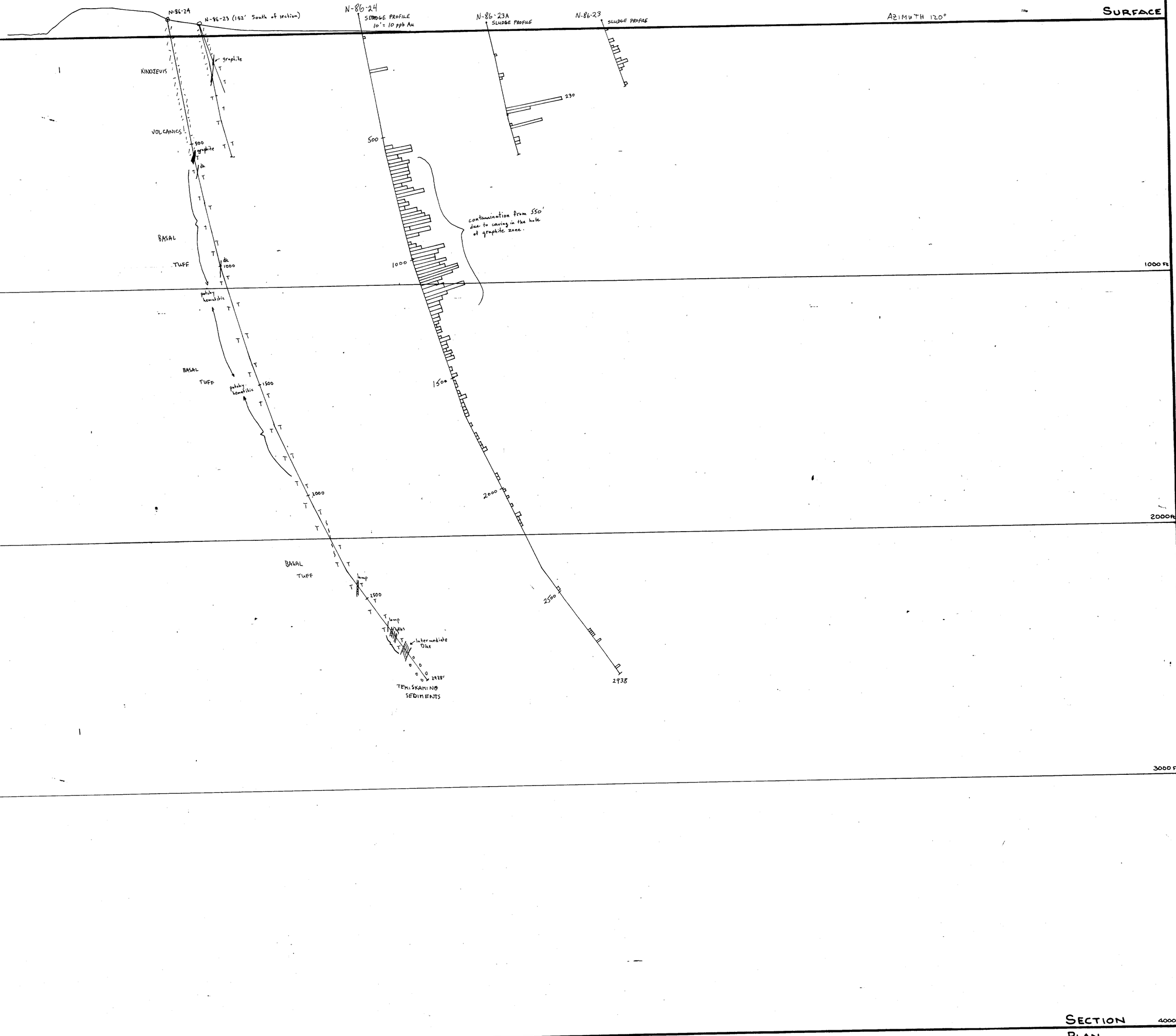
LEGEND

- DIABASE DIKES
- MAFIC DIKES
- QTZ FELDSPAR PORPHYRY (BIMODAL)
- FELDSPAR PORPHYRY
- MAFIC SYENITE
- CONGLOMERATE/GREYWACKE
- DEBRIS FLOW
- TUFF - MAFIC/FELSIC
- MAFIC VOLCANICS

N-86-22

NEWFIELDS MINERALS INC.
KIRKLAND BASIN PROPERTY
TECK TOWNSHIP ONTARIO
SCALE 1: 2000 or 1" = 167' (APPROX)
METERS 100 0 100
FEET 100 0 100 200 300 400 500 600
J. Mucklow

42A01NE0139 63.5020 TECK



LEGEND

- DIABASE DIKES
- MAFIC DIKES
- QTZ FELDSPAR PORPHYRY (BIMODAL)
- FELDSPAR PORPHYRY
- MAFIC SYENITE
- CONGLOMERATE/GREYWACKE
- DEBRIS FLOW
- TUFF - MAFIC/FELSIC
- MAFIC VOLCANICS

N-86-24 and 23

NEWFIELDS MINERALS INC
KIRKLAND BASIN PROPERTY
TECK TOWNSHIP ONTARIO
SCALE 1: 2000 or 1" = 167' (APPROX)
METERS 100 0 100
FEET 100 0 100 200 300 400 500 600
DRAWN BY T. TWOMEY, J. Mucklow

63.5020
OM86-6-P-85

42A01NE0139 63.5020 TECK

SLUDGE PROFILE - Au (ppb)
10' = 10 ppb

SURFACE

KINDJE VIS VOLCANICS

BASAL TUFF

DIABASE DIKE

1000 Ft

CONGLOMERATE

FELDSPAR PORPHYRY DIKE

TRACHYTIC TUFF

MAFIC DIKES (MAFIC SYENITE)

BIMODAL PORPHYRY

MAFIC DIKES

3487'

DIABASE

2000 Ft

3000 Ft

VEIN

4000 Ft

SECTION

PLAN

63.5020
OM86-6-P-85

LEGEND

- DIABASE DIKES
- MAFIC DIKES
- QTZ FELDSPAR PORPHYRY (BIMODAL)
- FELDSPAR PORPHYRY
- MAFIC SYENITE
- CONGLOMERATE/GREYWACKE
- DEBRIS FLOW
- TUFF - MAFIC/FELSIC
- MAFIC VOLCANICS

N-86-25

NEWFIELDS MINERALS INC.
KIRKLAND BASIN PROPERTY
TECK TOWNSHIP ONTARIO
SCALE 1 : 2000 or 1" = 167' (APPROX)
METERS 100 0 100
FEET 100 0 100 200 300 400 500 600
DRAWN BY T. TWOMEY, J. Mucklow

42A01NE0139 63.5020 TECK



42A01NE0139 63.5020 TECK

SURFACE

SLUDGE PROFILE

LAKESHORE FAULT

27 29

MAFIC SYENITE

BIMODAL PORPHYRY

sericitic

500 1000 1500 2000 2500

1000 Ft

2000 Ft

3000 Ft

4000 Ft

CONGLOMERATE

BASAL TUFF

Lamprophyre Dikes

2769'

KINOSEVIS VOLCANICS

L.S.F.

PROPOSED

3000

4200'

2400' (26)

SECTION

PLAN

LAKESHORE FAULT

29 (separate section)

27

330°

310 - 295°

63.5020

OM86-6-P-85

LEGEND

- DIABASE DIKES
- MAFIC DIKES
- QTZ FELDSPAR PORPHYRY (BIMODAL)
- [redacted] PORPHYRY
- MAFIC SYENITE
- CONGLOMERATE/GREYWACKE
- DEBRIS FLOW
- TUFF - MAFIC/FELSIC
- MAFIC VOLCAN[redacted]

86-N-27

126

NEWFIELDS MINERALS INC.
KIRKLAND BASIN PROPERTY
TECK TOWNSHIP ONTARIO
SCALE 1: 2000 or 1" = 167' (APPROX)
METERS 100 0 100
FEET 100 0 100 200 300 400 500 600
DRAWN BY: T. TWOMEY, 1986

42A01NE0139 63.5020 TECK



NEWFIELDS MINERALS INC

KIRKLAND BASIN PROPERTY

TECK TOWNSHIP ONT.

—SURFACE PLAN—