

NEW FRONTIER EXPLORATIONS LTD.

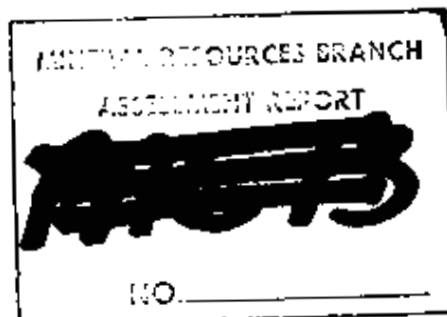
DRILLING LOG

DIAMOND DRILL HOLE NFX-77-2

Location: AS77-1 and S-74-3

Inclination: - 60°

180° Azimuth



7612

LOG

- 0 - 13' Casing and overburden
- 13 - 277.8' Altered Leucocratic Microdiorite (andesitic tuff) *
Less fractured than Hole 77-1. Rock is generally leuco. Buff coloured. 35.3-36.5 vein (M3 vein?). Vein cuts core axis at 60°. Vein is pyritic with rhodocrosite and minor black sphalerite.
- This altered "microdiorite" appears similar to the "microdiorite" texturally when altered but is probably related to the Dacite feldspar porphyry.
- At 182', there is alternating lines to dark grey banding, typical of this upper Andesitic tuff phase.
- 277.8- 282' Trachyte Dyke. Bladed feldspar porphyry type. Contact is at 30° to core axis and is sheared and bleached.
- 282 - 340' Altered Leucocratic Microdiorite (Andesitic tuff) as above 338-340' crushed.
- 340 - 359' Pulaskite Dyke. Buff-grey coloured. Angdaloidal type. Strong fracturing to 335'. Contact at 60° to core axis.

- 359 - 390.5' Altered Andesitic Tuff. Small phenocrysts of feldspar, 1mm average. (Fine pheno type)
- 390.5- 424' Bleached Altered Pulaskite Dyke. Amygdaloidal type. Cream coloured with crushed contacts at 80° to core axis.
- 424 - 453' Altered Andesitic Tuff. The feldspars are kaolinized and mottled with a finer leucocratic tan mineral at 432'. A 1" open gash vein with quartz and rosin sphalerite at 45° to the core axis.
- At 432' possible alteration "flooding" leaving rounded fragments? of original material in a ground mass of leucocratic tan rhyo-dacitic rock.
- 453 - 708' Mottled Dacite Porphyry Tuff and Breccia. Ground mass dark to medium grey in colour with the feldspar phenocrysts kaolinized. Solution breccia type not siliceous.
- 538-560' occasional gash vein 1-3" with indistinct contacts. These contain quartz and minor rosin sphalerite.
- At 572' swirl texture as if water lain tuff fines.
- 642-648' camouflage texture phenocryst. Size gradually increasing.
- At 668' is actually dacite feldspar porphyry containing fragments of rounded dacite feldspar porphyry.
- 708 - 753' Varicoloured Breccia interlayered with andesitic and dacite feldspar porphyry. Subrounded fragments of dacite and andesitic tuff in rock. Disseminated specularite in ground mass.

- 753 - 883' Dacite Crystal Tuff Porphyry. Groundmass buff to tan coloured. Fragments 20%. Phenocrysts greater than or equal to 1/10".
- 883' - 905.5' Pulaskite Dyke. Contact 30° to core axis.
- 905.5- 922' Altered Dacite Feldspar Porphyry.
- 922 - 927.5' Pulaskite Dyke. Contact at 80° to core axis.
- 927.5- 963' Dacite Feldspar Porphyry.
- 963 - 965' Pulaskite Dyke.
- 965 -1095' Dacite Feldspar Porphyry. Stressed appearing vaguely mottled.
- 1095 -1097.5' Vein. Good strong structure, weakly mineralized. 60° to core axis.
- 1097.5-1113' Dacite Feldspar Porphyry.
- 1113 1141' Rhyolitic (Cherty) Vari-Coloured Breccia. Fragments less than 1" and about 20% of rock.
- 1141 -1253' Dacite Feldspar Porphyry (Mottled breccia).
1242-1244' vari-coloured breccia.
At 1244.5, 2" quartz, sphalerite.
- 1243 -1261.5' Microdiorite. Leucocratic buff-green coloured. Similar to altered andesite tuff above to casual observation. 60° to core axis.
- Good sharp contact - gouge at contact.

1261.5-1282' Vein structure only barren of sulphide. At 1279' open drusy fractures at 50° to core axis.

1261.5-1280' Vari-Coloured Rhyolitic Breccia

1280 -1508' Dacite Feldspar Porphyry

Fractures open and lined with opaline quartz.

At 1338', 6" diatreme of vari-coloured breccia at 50° to core axis.

1238-1328' fractured drusy groundmass indicating very strong hydrothermal activity.

At 1496', 1-1/2" chalcopyrite veinlet with almost comb-like intergrowth. Vuggy with covellite coatings.

At 1505', 6" zone with chalcopyrite stringers. Feldspars kaolinized locally. Many open drusy fractures.

Logged August 24, 1977

Drill Hole 77-2

Depth 0 - 1508'

Inclination 30° from vertical

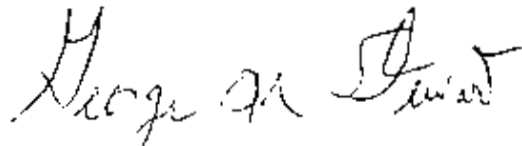
Azimuth S10°E

Average deflecting to S05°W near the end of the hole.

This hole is drilled from the same set up as Drill Hole 77-2 and 74-3. Vein intercept 1261.5' to 1282'. Barren vein structure. Nothing worth assaying.

SUMMARY

The diamond drilling conducted during the 1977 season failed to prove downward continuity of the southern ore block and failed to substantiate the presence of a stratiform mineralized horizon at depth below Drill Hole NG3.



GEORGE O. M. STEWART

Vancouver, B. C.

May 4, 1978

*Cores stored at Flax Meadows Explorer Division B.C.
R.H.G.*

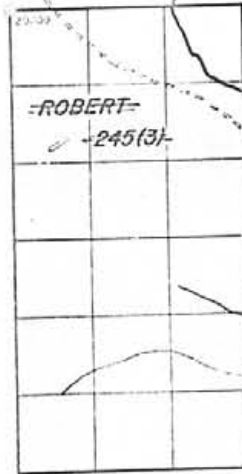
INCLINATIONS AND AZIMUTH
FROM SPERRY SUN PHOTO DISCS

| <u>HOLE NUMBER</u> | <u>DEPTH</u> | <u>INCLINATION</u> | <u>AZIMUTH</u> |
|--------------------|-----------------------|--------------------|----------------|
| NFX-1-77 | 1000' | 12° | S27°E |
| NFX-1-77 | 605' | 13° | S25°E |
| NFX-1-77 | 1985' | 13°20' | S15°20'E |
| NFX-1-77 | 2095 | 13° | S15°E |
| NFX-2-77 | 1000' | 30° | S10°E |
| NFX-2-77 | 500' | 30° | S10°E |
| NFX-2-77 | 1500' | 31° | S05°W |
| NG3 | 600' | 4° | S53°E |
| NG3 | 1375' | 9° | S50°E |
| NG3A | 1490' | 7°30' | S60°E |
| | (Top of Wedge 1223.6) | | |
| NG3B | 1534' | 11°30' | S59°E |

STATEMENT OF QUALIFICATIONS

| | |
|----------------|--|
| 1958 - 1962 | Attended St. Mary's and Dalhousie University, Halifax, Nova Scotia. |
| 1959 - 1962 | Summers with Kennco Explorations Ltd., Vancouver. |
| 1962 - 1967 | Project Manager with Kennco Western Ltd. |
| 1967 - 1970 | Exploration Manager, Nadina Explorations Ltd. |
| 1970 - 1973 | Consulting and Project Manager for Frontier Exploration Ltd., Maverick Mountain, Northgate Explorations. |
| 1973 - 1976 | Exploration Manager, Colt Resources Ltd. |
| 1976 - present | Exploration Manager, New Frontier Exploration Inc. |

| | | | | |
|---------|---------|---------|---------|---------|
| DEPT 11 | DEPT 12 | DEPT 13 | DEPT 14 | DEPT 15 |
| LEN 14C | LEN 12C | LEN 10C | LEN 8C | LEN 6C |
| NOV 7 | NOV 7 | NOV 7 | NOV 7 | NOV 7 |
| 575 | 130 | 110 | 90 | 70 |



Lakes

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Poplar Creek

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