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SUMMARY REPORT, EXPLORATION WORK

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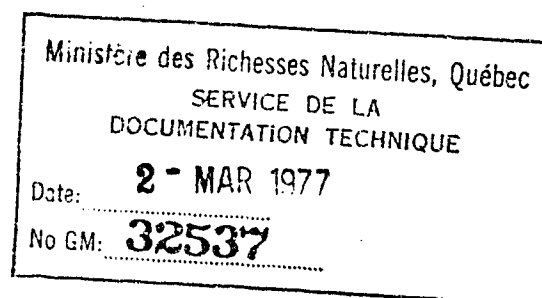
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Énergie et Ressources
naturelles

Québec 

SUMMARY REPORT
EXPLORATION WORK
GROUNDSTAR RESOURCES LIMITED
HUDDERSFIELD TOWNSHIP
QUEBEC



April 8, 1976

EXPLORATION WORK
GROUNDSTAR RESOURCES LIMITED
HUDDERSFIELD TOWNSHIP
QUEBEC

SUMMARY

The following report reviews the mining exploration work recently completed on the 600-acre block of ground held under Mining Leases and controlled by Groundstar Resources Limited through Futuranium Mines Limited. This 600-acre block is surrounded on the north, east and south by claims held directly by Groundstar Resources Limited.

Considerable exploration work was done on the leased ground by Yates Uranium Mines Limited in 1954 and 1955. That work amounted to surface stripping, trenching, 10,000 feet of diamond drilling in 105 holes and a 500-foot adit under what was considered the main radioactive zone. The work carried out by Yates Uranium Mines Limited was under the direction of G.H. Dumont, Professional Mining Engineer.

Mr. Dumont reported 5 radioactive zones with associated fluorite and apatite within a strike length of approximately one mile and occurring in westerly dipping beds of re-crystallized limestone. The four main zones were referred to as the Camp Zone, Matte Zone, Belanger Zone and the Belisle Zone. The fifth zone which was discovered near the end of the exploration work in 1955, is about 3,000 feet north and west from the Matte Zone and was assumed to be the extension of the Matte Zone. The fluorite and apatite mineralization was largely associated with the Matte Zone.

Mr. Dumont in reports covering his work, estimated recoverable reserves of 183,965 tons of ore grade material to a depth of 60

feet in the Camp Zone which could be removed by open-pit mining. In addition to this ore, it was estimated that there were an additional 458,542 tons in a parallel zone to a depth of 200 feet. Assays from drill core were reported to indicate a grade of 0.056% U_3O_8 and 1.5% ThO_2 .

The Matte Zone was calculated by Mr. Dumont to contain 202,000 tons of rock containing uranium, fluorite and apatite mineralization. An additional 3,000,000 tons was considered possible with the discovery of the new showing 3,000 feet to the north and west. The 500-foot adit mentioned above was run under this zone and bulk sampling of the rock is reported to have indicated a grade of 0.07% U_3O_8 , 0.695% ThO_2 , 16.0% fluorite and 7.0% apatite. Very little work was done on the Belanger and Belisle Zones and no estimates were made of tonnage and grade. A three ton bulk sample from the Belanger Zone however, is reported to have shown a U_3O_8 content of 0.08%. The Belisle Zone was thought to be the southerly extension of the Camp Zone.

The exploration program recently completed by Groundstar Resources Limited on this leased ground, consisted of surface stripping along 2,800 feet between the Matte and the North Zones, some rock trenching and 2,506 feet of diamond drilling using AQ wire-line equipment. The diamond drilling was carried out on both the Matte and Camp Zones and the work was done in an effort to substantiate the results obtained by Yates Uranium Mines Limited in 1954 and 55 and to indicate what possibilities there were of adding to these estimated ore reserves.

The results of the exploration work completed by Groundstar Resources Limited and carried out under the direction of the writer,

were such that it was not possible to confirm the estimates of tonnage and grade appearing in the records of the former Yates Uranium Mines Limited. It would appear that the geological structure of the zones was not clearly understood and that the grade of the radioactive materials was established mostly from instrument readings rather than chemical assays. There is no doubt that there are some strong radioactive zones on the property but it is going to require much more detailed work to determine whether or not there are concentrations of sufficient size and grade to constitute economic deposits.

The property definitely warrants further work, but before undertaking additional diamond drilling, the claims should be mapped in detail and the 500-foot adit should be surveyed and mapped as the underground information would provide very useful data in determining the attitude of the sedimentary beds. The writer is now of the opinion that the formations underlying the leased ground as well as the immediately adjoining claims, consist of a series of inter-bedded flat lying sediments that have been folded into a series of broad anticlines and synclines. The radioactive mineralization, as well as the fluorite and apatite, is associated with certain beds in these sedimentary rocks.

PROPERTY, LOCATION AND ACCESS

The area of the leased claims held under the Mining Concession originally granted to Yates Uranium Mines Limited and now controlled by Groundstar Resources Limited through Futuranium Mines Limited, comprises 600 acres located in the central part of Huddersfield Township, Quebec. This ground is more definitely described as

lots 17 and 18, range V, the south half of lots 19 and 20 range V and the north half of lots 18, 19 and 20, range IV. Groundstar Resources Limited also hold under development licenses, 1,600 acres adjoining this leased ground on the north, east and south. These staked claims comprise lots 14, 15, 16, 17 and the south half of 18 and 19, range IV, lots 14, 15, 16 and the north half of 19 and 20, range V and lots 14, 15, 16, 17, 18, 19 and 20, range VI.

Huddersfield Township is about 55 miles northwest of the cities of Ottawa and Hull, in what is generally referred to as the Otter Lake area. It is readily accessible by Provincial Highway No. 8 from Hull to Campbell's Bay and then by paved road to the town of Otter Lake. From Otter Lake, a good gravel road leads north to Sandy Creek, a distance of 10 miles. It is then only 2 miles by a bush road, suitable for automobile travel, to the property discussed in this report.

TOPOGRAPHY

The area is characterized by moderately rugged relief, with hills rising a maximum of 300 feet above the surrounding terrain. The higher ground is covered with a fairly light mantle of glacial till composed of clay, sand and boulders. The overburden is much thicker in the areas of low ground. Rock exposures are mostly confined to the high ground and are usually small but quite numerous. The entire area is covered by a heavy stand of both large and small deciduous and evergreen timber. Logging operations are currently being carried out in the general area. There are large bodies of water in the area but water for diamond drilling may have to be transported for distances of as much as two miles especially during the winter or in a dry season.

HISTORY AND PREVIOUS WORK

Mining interest was first attracted to Huddersfield Township through the reported occurrences of molybdenum , mica and fluorite and there was some small production of these minerals during the first world war and again during world war II. The presence of radioactive mineralization in the area, dates back to the early prospecting activity but the first serious attempt to explore for this type of mineralization was not undertaken until the early 1950's. By 1954, there were several companies working in the area but the most detailed work was carried out by Yates Uranium Mines Limited on the 600 acres of ground held under a mining concession and discussed in this report. Yates Uranium Mines Limited was succeeded by Lake Otter Uranium Mines Limited, which was later succeeded by First National Uranium Mines Limited and the property is now held by Futuranium Mines Limited which is controlled by Groundstar Uranium Mines Limited.

During the period 1954-1955, Yates Uranium Mines Limited completed 10,000 feet of diamond drilling on the ground in 105 drill holes, 500 feet of adit work, 68,000 square feet of stripping, 47,000 cu. ft. of trenching in overburden, 8,000 cu. ft. of rock trenching as well as surface geological mapping and scintillometer surveying. In addition, several buildings were constructed for living quarters, office facilities and mining work. A small pilot mill was also set up. The adit mentioned above was driven from an elevation about 130 feet below the Matte Zone. Interest in this property as well as in the general area decreased with depressed activity in uranium exploration which developed in the latter part of the 1950's. The current threat of an energy shortage has resulted in a renewed interest in the area.

GENERAL GEOLOGY

The general geology of the area is shown on Map 703A, Southern Quebec (West Sheet), published by the Federal Department of Mines and Resources in 1943 on the scale of one inch to twelve miles. A portion of Huddersfield Township is included on Preliminary Map 1165, Litchfield-Huddersfield Area, issued by the Quebec Dept. of Mines in 1957 on the scale of one inch to one mile.

The rocks underlying the area are all of Precambrian age and belong to what is generally referred to as the Grenville Series. The oldest formations are largely highly metamorphosed sediments and minor amounts of volcanic rocks presently represented by sedimentary gneisses, amphibolites, and various recrystallized limestones and altered impure lime sediments. The gneisses are composed of quartz, plagioclase, biotite, hornblende and pyroxene in various combinations and proportions. Less commonly, garnet and sillimanite are present. The lime sediments are composed of calcite, dolomite, and variable amounts of graphite, tremolite, phlogopite and diopside as well as other lime silicate minerals of the pyroxene group. In places these impure lime rocks are altered almost entirely to pyroxenites where they form what is generally referred to as tactite and are now represented by coarse dark green coloured rock often resembling gabbro.

These older rocks are often intruded by coarse pegmatite dikes composed mostly of quartz and feldspar. Younger granites form a large mass trending in a northwest direction through the area and are often interlayered with the Grenville formations. The youngest rocks observed in the area, are late Precambrian diabase dikes.

Radioactive mineralization is quite widespread throughout

the general area of the property discussed in this report along with mica, molybdenite and minor amounts of pyrite, pyrrhotite and chalcopyrite. The radioactive minerals include both uranium and thorium in various mineral forms and were first observed associated with pegmatite dikes. Exploration work conducted on several showings in the area during the middle 1950's, however, showed much of the radioactive mineralization to be associated with a rock classified as pyroxenite. These pyroxenites are fairly common throughout the Grenville Series and are actually highly altered phases of impure limestones.

Course crystals of fluorite and apatite, the latter sometimes two to three feet in length, frequently occur in fairly pure beds of re-crystallized limestone which varies in colour from snow white through shades of pink to deep orange.

CURRENT EXPLORATION WORK

Groundstar Resources Limited undertook a program of exploration work in December 1975, on the 600-acre property held under mining concession and described in this report.. This work which consisted of stripping, rock trenching and 2,506 feet of diamond drilling in 18 holes, was carried out to verify the results reported by Yates Uranium Mines Limited in 1955 and if possible, to add to the reported tonnages of ore grade material.

Two bulldozers were employed to strip the overburden from several areas along the strike of the Matte Zone to the northwest for approximately 3,000 feet to the North Zone. The overburden covering proved to be quite light and the underlying bedrock was readily exposed. The scintillometer showed some high radioactivity along this strike but the stripping proved that much of the radio-

activity was confined to boulders and rock fragments in the overburden as well as in the soil itself. Some rock trenching was carried out but the extreme cold weather prevented completing the amount of this work originally contemplated.

A total of eight diamond drill holes were drilled near the south end of the Matte Zone in the vicinity of the main surface exposure and in the area of the adit. These holes encountered the limestone bed which was reported to be the host rock for the radioactive mineralization as well as the fluorite and apatite. All three types of mineralization were found to be present and in some cases showing grades comparable to those reported by Yates Uranium Mines Limited but not sufficiently consistent to be considered ore. The fluorite and apatite were always noted to occur in the limestone but the radioactive mineralization was present in the enclosing pyroxenites more so than in the limestones. The radioactive zones were usually in the range of one foot wide and the overall grade was on the low side.

The Camp zone was tested with ten holes and these showed that the radioactivity favoured the altered pyroxenites. No significant beds of limestone were observed in any of the holes drilled on this zone and fluorite and apatite were conspicuously absent. The radioactive mineralization appeared to be more persistent here and was noted over wider widths than at the Matte Zone. The best assays were obtained in hole G-12 which returned 10.0 feet of core averaging 0.261% U_3O_8 and 0.22% ThO_2 .

The drilling was all done with a heavy covering of snow on the ground which made it impossible to correlate the drilling results with surface geology. The attitude of the beds however,

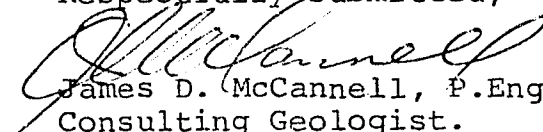
suggested that both the Matte and Camp zones were located near the crests of anticlinal structures but that the radioactivity diminished down the limbs of the folds. The drilling at both locations only tested the westerly dipping limbs and it is not known what conditions exist on the easterly dipping limbs. Also the bottoms of the synclines remain to be tested. It is very possible that the better parts of the mineralized zones near the crests of the anticlines have been removed by erosion. The writer is of the opinion that there are several of these anticlinal and synclinal structures on this property and the synclines may prove more favourable from the point of view of radioactive mineralization than the anticlines.

CONCLUSIONS AND RECOMMENDATIONS

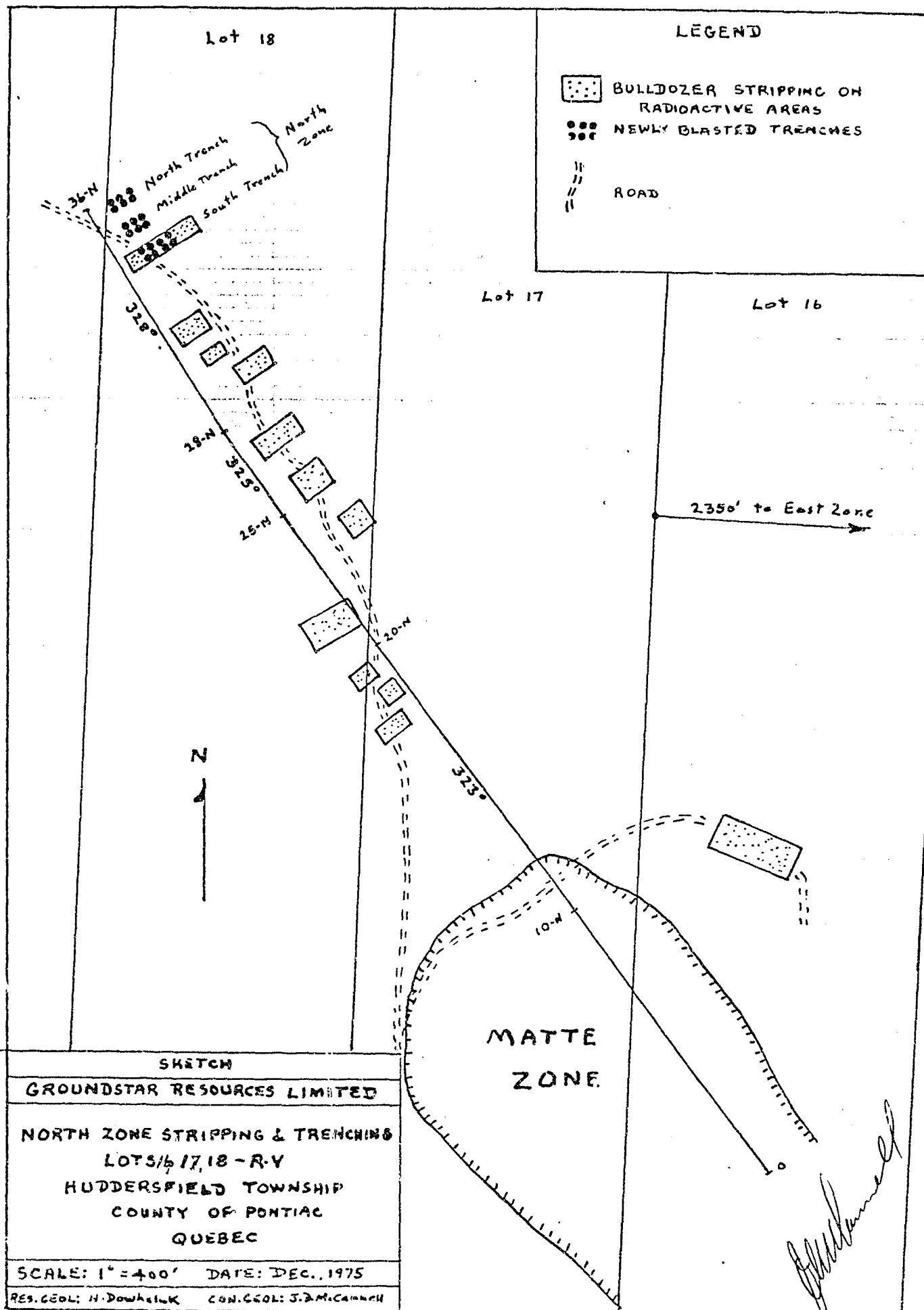
The diamond drilling recently completed on the area of the mining concession controlled by Groundstar Resources Limited and discussed in this report, did not confirm the tonnages and grade of U_3O_8 , fluorite and apatite reported by Yates Uranium Mines Limited but the property should still be considered a favourable uranium prospect. In the light of the structural theory developed by the Writer and his assistant H. Dowhaluk, it is quite possible that work carried out on this property in the past was not properly directed to gain the most encouraging information. It is now proposed that picket lines be cut at 400-foot intervals to provide control and that the property be geologically mapped in detail to locate the crests of the fold structures. It would then also be possible to carry out a more informative program of stripping to expose zones of radioactivity. Some diamond drilling should be

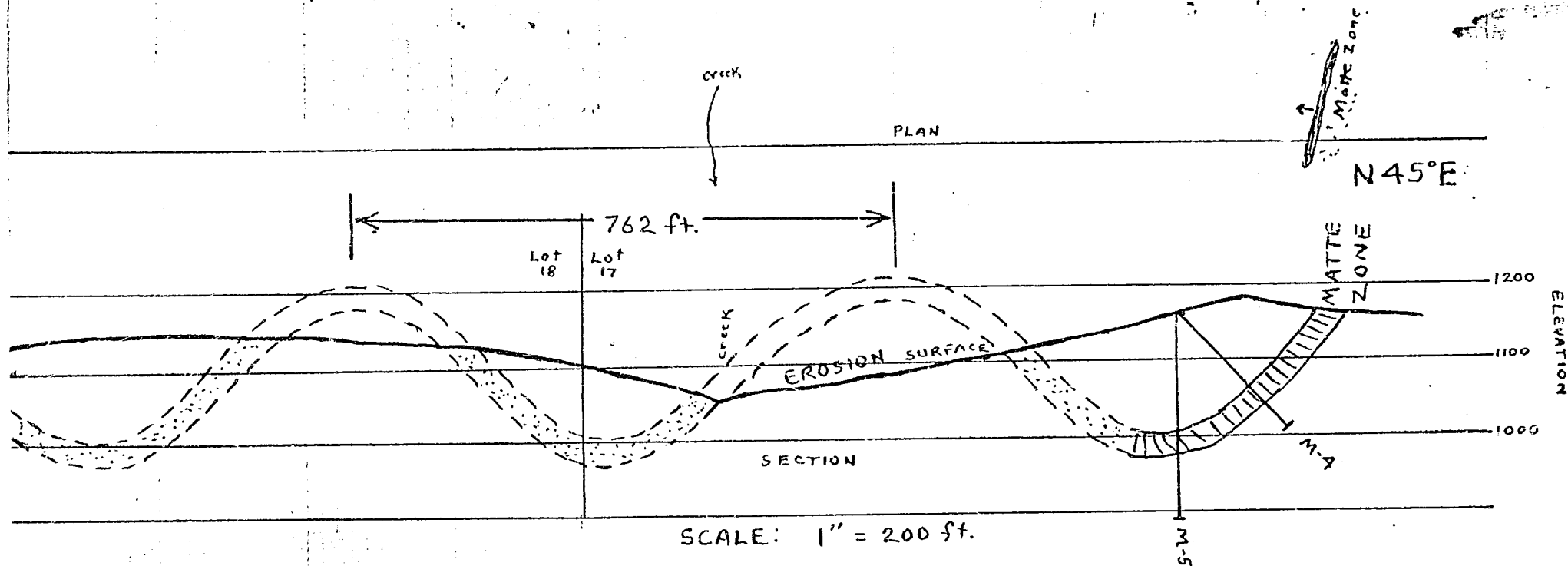
carried out to test some of the synclinal structures but these could only be located by close geological mapping. There is no evidence at hand to date to indicate the depths of these structures but 500 to 600 feet appears to be within reason.

Respectfully submitted,


James D. McCannell, P.Eng.,
Consulting Geologist.

Toronto, Ontario
April 8, 1976.





TENTATIVE INTERPRETATION OF MATRE-CAMP ZONES

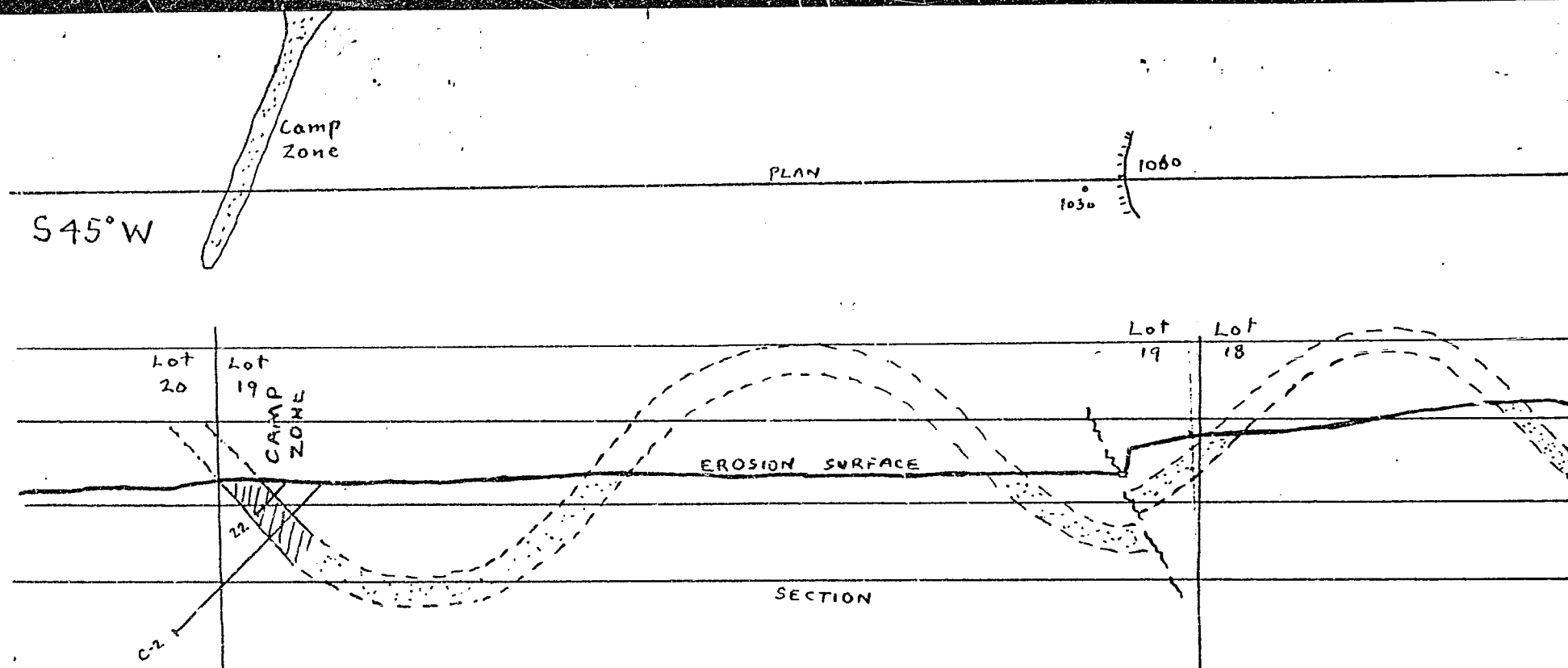
Study of available data suggests that the radioactive limestone at the Matre Showing is the same bed which occurs at the Camp showing. There is not enough data to determine the wave length or amplitude, parasitic folds, and the probable interference from cross-folding. It provides a model for cross-sectional drilling. The above folding with NW axes seems to be dominant but may be modified by folding on NE axes which would give a dome-and-basin effect.

[Signature]

GROUNDSTAR RESOURCES LIMITED

Jan. 2, 1975

H. D. D. D.



Initial drilling should complete the synclines at both ends. If this stands up, then the wave length would be definitely known and the synclines in the middle could then be worked out.

DIAMOND DRILL RECORD

PROPERTY	: Groundstar Resources Ltd.	HOLE NO.	: G-1
LOCATION	: Huddersfield Twsp., Pontiac County, Quebec.	DIP	: -45°
CLAIM	: Mining Conc. #423, Lot 17, Range V.	BEARING	: N 50° E
LATITUDE	:	LENGTH	: 111 ft.
		LOGGED BY	: H. Dowhaluk
		DRILLED BY	: Hosking D.D. Co. Ltd.
DEPARTURE	:	CORE SIZE	: AQ

0-6.0 : OVERBURDEN. Casing.

6.0-26.0 : GNEISSIC GRANITE. Pink to pinkish gray. Gneissic texture w tendency to form bands. Mainly pink orthoclase w minor white plagioclase, considerable quartz and biotite flakes. Some pyroxene, usually in small isolated bands. Med-grd. Small amounts of disseminated py and magnetite. Tending to granodiorite composition in places.

26.0-28.5 : PYROXENE-FELDSPAR GNEISS. Dk green overall color. Mostly coarse white plagioclase w large lensy grains or patches of dark green pyroxene. Very coarse-grd, skarn-like with some pegmatitic aspects.

28.5-54.0 : CARBONATE ZONE: Mostly orange-pink calcite coarsely crystallized with patches of pyroxene-feldspar in places. Some well-formed pyroxene crystals occasionally, green to brown apatite crystals up to 1/2" wide, purple to rose fluorite in irregular patches or small lenses, some minor lt brown sphene and yellow-green scapolite.

28.5: Several lt green apatite crystals 1"x1/2" and green-black pyroxene crystals. Minor sphene & scapolite.

30.0: Pyroxene, purple fluorite and pyrite.

30.1: Brown apatite crystals 2"x1/2".

30.3: Pyroxene and fluorite.

31.8-32.5: 1/4"x1/2" lenses of purple fluorite.

32.5-35.5: Considerable pyroxene and white feldspar w scattered, irregular purple or rose fluorite, occasional apatite crystals up to 3/4" wide (green to brownish green), some sphene.

36.3-37.4; 43.2-44.2; 45.0-45.5; 47.0-47.5; 49.3-50.0: Lost core, total of 3.8 ft. Very blocky drilling, often 2 or 3" per run.

37.4-54.0: Pink calcite up to 2 ft. wide intercalated with skarny pyroxene rock. Rose to purple fluorite, pyroxene crystals, occasional apatite crystals & lt brown sphene.

54.0-56.0 : PYROXENE-FELDSPAR GNEISS. Coarse-grd. As above. Some sphene.

56.0-62.9 : PEGMATITIC GRANITE. Coarse-grd, pegmatitic texture. Pink feldspar w quartz and pyroxene. Occasional sphene. Some faint foliation at 80°.

62.9-69.0 : PYROXENE-FELDSPAR GNEISS. F-grd, foliation at 70°, gneissic-granular, occasionally coarse-grd and lumpy. Pyroxene and white feldspar with abundant fine brown garnets. Green color.

69.0-75.4 : APLITE. Pinkish. Granitic composition w pink feldspar, qtz, and fine biotite flakes. Blastopseamitic texture. Faint foliation at 80°.

75.4-80.3 : PEGMATITIC GRANITE. Coarse-grd. Some small bands of pyroxene gneiss.

(cont. p 2)

- 80.3-81.7 :PYROXENE GNEISS. Dk green, some sphene.
81.7-92.1 :PEGMATITIC GRANODIORITE. Similar to the pegmatitic granite but with considerable white plagioclase. Some pyroxene present as a dark mineral.
92.1-97.9 :PYROXENE GNEISS. F-med grd, some crse-grd sections. At 80° to core angle. Pyroxene and white plagioclase.
97.9-100.0 :PEGMATITIC GRANODIORITE. As above.
100.0-104.0:PEGMATITIC GRANITE. Pink, some pyroxene in spots.
104.0-110.0:BIOTITE GNEISS. Very abundant biotite & breaking w lense-like material of granite or granodiorite composition.
110.0-111.0:APLITE. Pinkish. Speckled appearance from biotite. Sugary texture (blastopsammitic).

End of hole - 111 ft.

Note: The MATTE ZONE is defined as the calcite rock plus the pyroxene border phases, i.e:

26.0 - 56.0

Its characteristic mineralogy is (most abundant to least abundant):
Calcite, pyroxene, plagioclase, fluorite, apatite, sphene, scapolite, uranium minerals.

LIST OF SAMPLES

			%P	%F	
#2002	28.0-28.5	0.5 ft.			Contact of pyx skarn w pk calcite, apatite
#2003*	29.6-38.7	9.1	%		Pk calcite, purple fluorite, pyroxene, apatite.
#2004	39.1-48.8	9.7			Pk calcite, fluorite
			%U308	%Th02	
#1020	65.5-66.1	0.6 ft.			Pyx-feld gneiss, sphene 35 cps

* Spectrographic analysis

DIAMOND DRILL LOG

PROPERTY	: Groundstar Resources Ltd.	HOLE NO.	: G-2
LOCATION	: Huddersfield Twsp., Pontiac County, Quebec.	DIP	: -90°
CLAIM	: Mining Conc. #423, Lot 17, Range V.	BEARING	: -
LATITUDE	: O-NW	LENGTH	: 122 ft.
DEPARTURE	: 1+00 NE	STARTED	: Jan. 29, 1976
CORE SIZE	: AQ	COMPLETED	: Jan. 31, 1976
		LOGGED BY	: H. Dowhaluk
		DRILLED BY	: Hosking D.D. Co.

0-3.2 : OVERBURDEN. Casing.

3.2-19.0 : GRANITE GNEISS. Pinkish, crse-grd, somewhat foliated.

19.0-24.5 : PYROXENE GNEISS. Crse-grd., somewhat pegmatitic texture w white feldspar and crse pyroxene. Occasional biotite.

24.5-31.2 : GRANITE. Pinkish white, slightly granodioritic. Aplitic texture in the last 2 ft.

31.2-33.3 : PYROXENE GNEISS. Crse-grd, somewhat pegmatitic in texture. Some crystals of brown sphene. 1" calcite at 32.3 ft.

33.3-34.1 : PINK CALCITE. Contains about 30% pyroxene in well-developed crystals for the most part.

34.1-35.3 : PYROXENE SKARN.

35.3-36.7 : PINK CALCITE. Some pyroxene crystals. Some fluorite lenses or small gashes at 86.7.

36.7-45.3 : PYROXENE GNEISS & SKARN. Mostly crse-grd, but med-grd in places, somewhat pegmatitic. Occasional calcite stringer and small amounts of purple fluorite.

45.3-65.5 : CALCITE. Orange-pink with abundant large crystals of pyroxene. Fairly abundant purple fluorite. Calcite is essentially white after 61 ft. After 50 ft., mostly clear calcite except for occasional pyroxene, fluorite or apatite.

52.5-53.0: Pyroxene crystals, purple fluorite and green apatite; also some brownish apatite.

53.3: Large brown crystal of apatite.

55.7-56.1: Pyroxene crystals & minor fluorite.

58.4-58.7: Pyroxene, some fluorite.

60.2-60.6: Broken lenses of violet fluorite.

65.5-72.6 : PYROXENE-FELDSPAR SKARN & GNEISS. Dk green pyroxene (euhedral to subhedral) w white plagioclase. Occasional foliation @ 55°. Somewhat pegmatitic aspect. Considerable carbonate content. Some small wedges of sphene.

68.7: Large grains of pyrite and pyrrhotite.

72.6-75.6 : PEGMATITIC GRANITE. Crse-grd, pinkish white. Some pyroxene.

75.6-77.1 : PYROXENE-FELDSPAR SKARN. Contains some carbonate. Some foliation at 55°.

77.1-78.0 : PEGMATITIC GRANITE. Pink, crse-grd.

78.0-81.6 : PYROXENE-FELDSPAR SKARN.

81.6-89.5 : PEGMATITIC GRANITE. As before.

89.5-93.0 : PYROXENE-FELDSPAR GRANOFELS. Some foliation at 55°.

93.0-98.3 : APLITE. Pink, speckled appearance from fine biotite flakes. Uniform, sugary aspect. Granitic composition.

98.3-99.1 : PYROXENE GNEISS & GRANOFELS. Mostly sugary textured, med-grd. Dk green pyroxene and white feldspar.

99.1-119.5 : PYROXENE GRANITE GNEISS. Much darker than usual granite gneiss (Intermediate aspect). Granitic and granodioritic material w abundant large grains, bands and irregular patches of pyroxene. Some biotite in places. Foliation @ 45°.

105.7-106.1; 115.9-116.1: Quartz veins: clear, glassy.

(continued)

119.5-122.0: PYROXENE-FELDSPAR GRANOFELS. F-grd, sugary textured.

121.4: 3/4" $X_{\frac{1}{2}}$ lense of massive pyrrhotite, minor pyrite and slightly radioactive. @ 45°.

END OF HOLE - 122 ft.

No dip tests

36.6-60.5: Fluorite zone

52.0-53.4: Apatite zone.

LIST OF SAMPLES

#1023	70.0-70.5	0.5 ft.	%U308	%Th02	Pyx-felds skarn
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DIAMOND DRILL LOG

PROPERTY	: Groundstar Resources Ltd.	HOLE NO.	: G-3
LOCATION	: Huddersfield Twsp., Pontiac County, Quebec.	DIP	: -65°
CLAIM	: Mining Conc. #423, Lot 17, Range V.	BEARING	: N 50° E
LATITUDE	: 0-NW	LENGTH	: 139 ft.
DEPARTURE	: 0-NE	STARTED	: Feb. 2, 1976
CORE SIZE	: AQ	COMPLETED	: Feb. 3, 1976
		LOGGED BY	: H. Dowhaluk
		DRILLED BY	: Hosking D.D. Co.

0-5.5 : OVERBURDEN. Casing.

5.5-12.5 : GRANITE GNEISS. At 85° to core. Pink K-feldspar, white qtz, and some pyroxene. Crse-grd, slight tendency to augen texture.

12.5-13.1 : AMPHIBOLITE. Blackish color. Hornblende, biotite and white plagioclase. Med-grd, 80° to core.

13.1-13.8 : GRANITE GNEISS.

13.8-16.0 : AMPHIBOLITE. 2 or 3 small pegmatite lenses.

16.0-17.5 : PEGMATITE. Pinkish, crse-grd. Pink feldspar, qtz, biotite.

17.5-23.5 : GRANITE GNEISS. Lens-like aggregates of pink K-feldspar, somewhat pegmatitic.

23.5-26.1 : AMPHIBOLITE.

26.1-26.7 : GRANITE GNEISS. Contacts @ 50°.

26.7-28.3 : AMPHIBOLITE. Some biotite.

28.3-30.3 : AMPHIBOLITIC HYBRID GNEISS. Bands of pink pegmatitic material up to 3" wide or more w amphibolitic bands or stringers up to 3". Minor pyroxene in spots.

30.3-33.1 : AMPHIBOLITE. Some white feldspar streaking or banding @ 50°.

33.1-71.1 : GRANITE GNEISS. As above. Lenticular development of pink feldspar. Pinkish color. Gneissosity @ 70-90°. Quite pegmatitic from 57-68.

71.1-72.2 : PYROXENE-FELDSPAR GRANOFELS. Med-grd w some biotite flakes. Sugary texture. Some minor disseminated pyrite.

72.2-106.5 : GRANITE GNEISS. As above. A somewhat pegmatitic aspect. 88.2-88.4; 91.5-92.0: Gray, glassy, qtz veins. 88.7: 1/4" grain of purple fluorite.

106.5-107.2 : PYROXENE SKARN. Dk green, crse-grd pyroxene and white plagioclase. Several 1/4" wedges of brown sphene and few grains of pyrite.

107.2-107.9 : CALCITE. Lt pink-orange, crse-grd w good cleavage. Few grains and one large lump of pyroxene containing sphene and pyrrhotite.

107.9-111.0 : PYROXENE-FELDSPAR GRANOFELS. Sugary, f-med-grd rock. Some slight foliation @ 70°.

108.3: 1" veinlet of purple fluorite. 1/4-1/2" lens of massive pyrite on top side. Minor pink calcite.

111.0-112.2 : PYROXENE-FELDSPAR SKARN. Crse pyroxene and white plagioclase. Vuggy.

111.0: 1" pink calcite.

111.2-111.5: 50% purple fluorite.

112.2-119.6 : PEGMATITIC GRANITE. Pink, crse-grd. Gneissic w some pyroxene and biotite. Minor pyrite.

119.6-121.7 : PYROXENE-FELDSPAR SKARN. Crse pyroxene and white plagioclase. Some sphene, purple fluorite and occas qtz.

121.3: Large ~~xxx~~ 1"-wide crystal of reddish-brown apatite and plate of molybdenite 1/2" X 3/4".

121.7: 2/3" violet fluorite veinlet.

(continued)

- 121.7-125.0: CALCITE. Orange-pink. Occasional large lump of pyroxene. Also grains, stringers & lines of colorless to purple fluorite in small amounts.
- 125.0-136.5: PYROXENE-FELDSPAR SKARN. Crse-grd pyroxene & white plagioclase arranged in alternating light and dark bands (2" to 1 ft.). Epidote, sphene, pyrite and fine streaks of fluorite occur mostly w the pyroxene.
- 125.3: large grain of purple fluorite.
- 127.0-127.2: 2" of orange calcite. Crystal of reddish apatite.
- 127.9: 2" lens or pod of orange calcite.
- 129.5: 2 large crystals of quartz.
- 130.6: 3/4" purple fluorite.
- 131.2: Minor fluorite, purple.
- 133.4: Large euhedral crystal of white microcline.
- 132.5-132.8: Pyroxenite w several large flakes of molybdenite.
- 136.5-142.9: PEGMATITE. Crse-grd., pinkish white w remnants of skarny pyroxene. Mostly pinkish white microcline, gray quartz, and scattered grains or blotches of pyroxene.
- 140.7-141.3: 75% pyroxene.
- 142.9-144.2: PYROXENITE. Crse-grd., over 90% pyroxene. Some sphene.
- 144.2-149.6: PEGMATITE. As above.
- 149.6-150.4: PYROXENITE. F-med grd.
- 150.4-151.5: PEGMATITE.
- 151.5-152.2: PYROXENE-FELDSPAR GNEISS. Skarny.
- 152.2-163.0: PEGMATITE. As above.
- 163.0-168.3: GRANITE. Pink, med-crse grd., granitic textured.
- 168.3-170.5: PYROXENE GNEISS & GRANOFELS. Pyroxene and plagioclase, mostly in bands. Crse skarny to sugary.
- 170.5-173.6: PEGMATITE. Pinkish white.
- 173.6-175.0: PYROXENE GNEISS. As above, @ 65°.
- 175.0-176.9: PEGMATITE.
- 176.9-178.2: PYROXENE GNEISS. Med-grd.
- 178.2-186.0: PEGMATITIC HYBRID GNEISS. Mostly pegmatitic material as before but w abundant pyroxenitic bands.
- 186.0-188.0: PYROXENE GNEISS.
- 188.0-189.0: AMPHIBOLITE. Black hornblende and white plagioclase.

END OF HOLE - 189 ft.

LIST OF SAMPLES

			%Mo	
#1024	121.2-121.8	0.6 ft.		Pyx-feld skarn at edge of limestone. Apatite, fluorite, molybdenite.
#1025	82.3-83.0	0.7		Pyroxenite, sphene, molybdenite

DIAMOND DRILL LOG

PROPERTY	: Groundstar Resources Ltd.	HOLE NO.	: G-4
LOCATION	: Huddersfield Twsp., Pontiac County, Quebec.	DIP	: -90°
CLAIM	: Mining Conc. #A23, Lot 17, Range V.	BEARING	: -
LATITUDE	: O-NW	LENGTH	: 200 ft.
DEPARTURE	: O-NE	STARTED	: Feb. 3, 1976
CORE SIZE	: AQ	COMPLETED	: Feb. 4, 1976
ELEVATION	:	LOGGED BY	: H. Dowhaluk
		DRILLED BY	: Hosking D.D. Co.

0-4.3 : OVERBURDEN. Casing.

4.3-12.5 : GRANITE GNEISS. Pinkish, crse-grd. Lenticular development of pink K-feldspar, sometimes a partly augen texture. Some gneissosity @ 70°. Qtz, hornblende and abundant biotite in streaks. Somewhat pegmatitic aspect.

12.5-13.4 : AMPHIBOLITE. Blackish. Med-grd. Black hornblende and white plagioclase.

13.4-14.8 : GRANITE GNEISS. As above.

14.8-18.3 : AMPHIBOLITE.

18.3-42.4 : GRANITE GNEISS. As above.

42.4-43.7 : AMPHIBOLITE. Med-grd.

43.7-45.8 : GRANITE GNEISS. Somewhat whitish and granodioritic composition towards amphibolite contacts.

45.8-48.2 : AMPHIBOLITE.

48.2-54.0 : GRANITE GNEISS. As above. 40° to core angle.

54.0-56.1 : AMPHIBOLITE. @56 ft., 35°

56.1-64.2 : GRANITE GNEISS.

64.2-65.2 : AMPHIBOLITE.

65.2-83.2 : GRANITE GNEISS. Quite pegmatitic.

83.2-85.6 : GRANODIORITE. Lt gray, med-grd. Abundant quartz, and much more plagioclase than K-feldspar. Biotite. Small euhedral garnet crystals.

85.6-100.9 : PEGMATITIC GRANITE GNEISS. Crse-grd, reddish pink color.

100.9-101.8 : QUARTZ DIORITE GNEISS. F-med grd. Qtz, plagioclase, biotite, hornblende and some reddish garnets.

101.8-117.0 : GRANITE GNEISS.

107.2: Glassy gray qtz vein - 1/2".

117.0-120.2 : PYROXENE-FELDSPAR SKARN. Heavy crse pyroxene towards above contact with some sections mainly white to buffy crse plagioclase. Few grains of carbonate. Scattered sphene.

117.5-118.5: Some faint radioactivity associated with heavy crse pyroxene. Considerable sphene and occasional large book (1/2") of biotite-phlogopite.

120.2-124.2 : GRANITE GNEISS. Gneissosity @ 30°.

124.2-125.7 : PEGMATITE. Qtz, white to greenish and reddish plagioclase, few patches of pink microcline. Some biotite and pyroxene.

125.7-131.8 : PYROXENE SKARN, GNEISS. Variable w crse pyroxene-plagioclase which is crse-pegmatitic in texture in places but grading rapidly into f-med grd pyroxene-plagioclase granofels w sugary texture. General green color. Mostly plagioclase @ contact w next. Abundant sphene and occasional grains of pyrite (esp. 126.8-127.6).

131.8-133.1 : QUARTZ DIORITE GNEISS. Med grd. Qtz, plagioclase & pyroxene. @ 50° to core. Abundant sphene.

133.1-136.5 : PYROXENE SKARN. As above. Some epidote @ contact w next.

(continued)

- 136.5-143.5: PEGMATITE. Very coarse-grained with large lumps of pink microcline and white plagioclase, quartz, and pyroxene. Some tremolite at contact with next.
- 143.5-145.3: PYROXENE-CALCITE SKARN. About equal amounts of pyroxene & calcite. Pyroxene well crystallized. Abundant sphene.
- 145.3-147.8: PYROXENE-FELDSPAR GRANOFELS. Fine-medium grained, sugary rock. Green.
- 147.8-151.7: CALCITE. Orange-pink.
- 147.8-150.0: About 30% pyroxene crystals, abundant sphene, & 2 or 3 small spots with colorless fluorite. Few grains of pyrite.
- 151.1-151.5: Some pyroxene crystals and a few grains of purple, colorless & yellow fluorite.
- 151.7-158.3: PYROXENE SKARN. Very irregular with feldspathic sections. Coarse pyroxene, white plagioclase and considerable sphene. Patches of pure pyroxene with abundant sphene & some pyrrhotite. Considerable calcite content.
- 156.3: 1" patch of move quartz.
- 158.3-161.9: PYROXENE-FELDSPAR GRANOFELS. Green, fine-medium grained, some calcite content.
- 161.9-165.0: PYROXENE-FELDSPAR SKARN.
- 165.0-167.9: PYROXENE-FELDSPAR GRANOFELS.
- 167.9-169.7: PYROXENE SKARN.
- 169.7-171.3: PEGMATITE. Coarse-grained. Pink microcline, plagioclase, quartz, & pyroxene. Rare pyrrhotite grains.
- 171.3-172.9: PYROXENITE. Very coarse, green.
- 172.9-200.0: PEGMATITE. Coarse-grained. Pink microcline, quartz & pyroxene. Plagioclase abundant where pyroxene occurs in quantity.
- 181.3-183.0: 5-10% pyroxene.
- 186.0-188.8: " "
- 186.7: Uranothorite crystals, light dull, dirty yellow. One grain up to 1/4". Radioactivity 300 cps. Associated with a few pyroxene crystals.
- 191.2-193.4: 50% pyroxene & pyroxene-feldspar granofels.
- 195.8-198.3: Some large crystals of pyroxene & some pyroxene-feldspar granofels.

END OF HOLE - 200 ft.

LIST OF SAMPLES

			U308	Th02	
#1001	186.4-187.2	0.8 ft.	_____	_____	Pegmatite

DIAMOND DRILL LOG

PROPERTY	: Groundstar Resources Ltd.	HOLE NO.	: G-5
LOCATION	: Huddersfield Twsp., Pontiac County, Quebec.	DIP	: -45°
CLAIM	: Mining Conc. # 423, Lot 17, Range V.	BEARING	: S 50° W
LATITUDE	: 0-NW	LENGTH	: 205 ft.
DEPARTURE	: 1+27 NE	STARTED	: Feb. 6, 1976
CORE SIZE	: AQUATION	COMPLETED	: Feb. 7, 1976
ELEVATION	:	LOGGED BY	: H. Dowhaluk
		DRILLED BY	: Hosking D.D.Co.
		DIP TEST	: 205 ft - 45°

0-6.2 :OVERBURDEN. Casing.

6.2-17.3 :GRANITE GNEISS. Med-grd mostly, somewhat aplitic (sugary) in texture in places. Lt pinkish gray. Slight foliation at 20°.

17.3-18.6 :PYROXENE-FELDSPAR ROCK. Over 50% buffy white plagioclase w large irregular grains of pyroxene. Crse-grd, skarny.

18.6-20.4 :PYROXENITE. Very crse, almost pure dk green pyroxene. Contact w next @ 20°.

20.4-30.5 :GRANITE GNEISS. As above but pink feldspar tending to form lenses.

30.5-33.5 :GNEISSIC QUARTZ DIORITE. Lt colored to 31.9, then darker (more mafics). White plagioclase, quartz, and black hornblende.

33.5-35.1 :PYROXENE-FELDSPAR SKARN. Crse pyroxene mostly with about 30% white plagioclase. Few grains of py, pyrrhotite. Some biotite.

35.1-36.9 :QUARTZ DIORITE. As above. Qtz, plagioclase (white, w striations), biotite and sparse py.

36.9-42.2 :CALCITE. Orange-pink. Pure. Crsely cleavable. 36.9: cast in calcite of 1/2" apatite crystal.

42.2-50.5 :PYROXENE-FELDSPAR SKARN & GNEISS. Skarny to 48.0, then more gneissic. Crse pyroxene and white plagioclase. Rare sphene and py. Contact w above @ 20°.

50.5-56.6 :PEGMATITIC GRANITE. Gneissic, crse-grd. Pinkish w abundant biotite in clots, streaks. Crse pegmatitic texture. Gneissocity @ 20°.

56.6-57.2 :PYROXENE-FELDSPAR GNEISS. Quite light-colored, predominantly plagioclase. Med-grd.

57.2-58.1 :CONTACT SKARN. Some pink calcite (20%), white microcline, pale greenish white scapolite (?), small sphene crystals and black columbite (?). See spectrographic analysis.

58.1-62.0 :CALCITE. Orange-pink, pure, except for 58.1-59.3: 30% pyroxene as scattered crystals & lumps. Some sphene.

62.0-63.1 :CONTACT. Calcite gradually disappearing along length of core at small angle.

63.1-71.1 :PYROXENE-FELDSPAR SKARN & GNEISS. About 40% dk green pyroxene, rest is white plagioclase. Occasional sphene wedge.

71.1-73.6 :CALCITE. Pink, pure.

73.6-76.3 :PYROXENE-FELDSPAR GNEISS. Gneissocity @ 25°.

76.3-122.9 :PEGMATITIC GRANITE. Crse-grd, pink w lenticular development of reddish feldspar. Biotite flakes. 30° to core. 76.7-77.7; 78.3-80.0: About 50% biotite, dark color. 100.8-101.0; 101.5-101.8; 103.3-103.6; 106.3-106.6; 106.9-107.1: Crse pyroxene & wh plag, often w some calcite. 103.3-103.6: Pyroxene, calcite, very crse biotite books, 1" lump of purple fluorite.

122.9-124.7:PYROXENE-FELDSPAR SKARN. Crse pyroxene & wh plagioclase. Some epidote & vuggy near contact w above.

(continued)

- 124.7-131.0:QUARTZ DIORITE (TONALITE): Grayish white, med-grd. Granitic texture. Qtz, white to buffy plagioclase, hornblende. Rare py.
- 131.0-132.1:PEGMATITE. Very crse. Pinkish. Pinkish white microcline, plagioclase, qtz, and hornblende. Contact w next @ 10°.
- 132.1-139.2:AMPHIBOLITE. Crse-grd. Black, salt & pepper color. Crse hornblende (some larger augen) & white plagioclase. Foliated @ 20°.
- 139.2-144.4:PEGMATITE. Very crse-grd, med-grd in spots. Variable texture. Pinkish white microcline, plagioclase, qtz, & pyroxene.
- 144.4-153.9:GNEISSIC LEUCODIORITE. Grayish white. Med-grd, granitic texture. White plagioclase mostly w flakes of biotite.
- 153.9-157.8:PYROXENE-FELDSPAR GNEISS & SKARN. Starts gneissic and becomes more skarny towards next. Crse green pyroxene and white plagioclase. Fairly abundant scattered sphene. Spot of purple fluorite @ 154.2.
- 157.8-163.3:CALCITE. Orange-pink. Crsely crystalline, cleavable masses. 157.8-160.0: 10-15% pyroxene crystals. Occasional sphene. 160.0-162.9: Clear calcite. 162.9-163.3: 15% pyroxene. Considerable fluorite @ 163.3.
- 163.3-174.2:PYROXENE-FELDSPAR SKARN. Crse pyroxene crystals w white plagioclase, some calcite; also fluorite & sphene.
- 174.2-177.7:PYROXENE-FELDSPAR GRANOFELS. Green, f-grd, sugary.
- 177.7-182.7:PYROXENE-FELDSPAR GNEISS & SKARN. Crse pyroxene, almost pyroxenitic in places; few spots of med-grd, sugary granofels. Dk green. Some py & po grains.
- 182.7-186.6:PEGMATITE. Crse-grd. Conspicuous lt violet qtz, some pinkish white microcline, white to lt green plagioclase, pyroxene. Grades into next.
- 186.6-189.2:GNEISSIC DIORITE. Grayish white. White plagioclase w pyroxene grains. Med-grd. Concentrations of pyroxene (granofels) from 187.1-187.6, 188.0-188.4.
- 189.2-190.3:PYROXENITE. Mostly crse dk green pyroxene. Brecciated @ 189.8 w calcite & considerable py & pyrrhotite in large blebs & masses up to 1" long.
- 190.3-191.1:PEGMATITE. As above. Abundant pyroxene on contact w next.
- 191.1-193.5:DIORITE. As above. Pyroxene on contact w next.
- 193.5-201.2:PYROXENE-FELDSPAR GRANOFELS. F-grd. Some skarny pyroxene streaks and bands.
- 201.2-203.0:PYROXENE-FELDSPAR SKARN. Very crse pyroxene & plagioclase.
- 203.0-205.0:PEGMATITE. Mostly wh plagioclase, pale violet qtz in large masses up to 1" or more & crse lumps and crystals of pyroxene. Whitish color.

END OF HOLE - 205 ft.

LIST OF SAMPLES

			ozs Au/t	
#1002	33.5-35.1	1.6 ft.	_____	Py & po in pyx-feld skarn
#1003	35.1-36.9	1.8	_____	Py, po Qtz dior-pink lm contact.
#1011	177.3-175.0	2.7	_____	Mostly pyroxene w py, po
#1012	189.1-190.3	1.2	_____	Crse py, po in pyroxenite

			%U308	
#1004	53.0-54.1	1.1 ft.	_____	Pegmatite, up to 35 cps in shield
#1006	123.2-124.1	0.9	_____	Pyroxene-feld skarn, 45 cps

			% F	
#1008	162.8-164.1	1.3 ft.	_____	Pyroxene skarn near contact
#1009	164.1-167.7	3.6	_____	Pyr-feld skarn
#1010	167.7-170.2	2.5	_____	"

#1005	57.3-59.4	2.1 ft.		Spectographic analysis
#1007	153.9-157.8	3.9		Spectographic analysis

DIAMOND DRILL RECORD

PROPERTY : Groundstar Resources Ltd.	HOLE NO. : G-6
LOCATION : Huddersfield Twsp., Pontiac County, Que.	DIP : -90°
CLAIM : Mining Concession # 423, Lot 17 Range V	BEARING : -
LATITUDE : 1+00 NW	LENGTH : 230 ft.
DEPARTURE : 0+00 NE	STARTED : Feb. 9, 1976
CORE SIZE : AQ	COMPLETED : Feb. 17, 1976
	LOGGED BY : H. Dowhaluk
	DRILLED BY : Hosking D.D.Co.

0-4.3 : OVERBURDEN. Casing.

4.3-39.0 : GRANITE GNEISS. Pinkish, crse-grd. Lenticular development of reddish feldspar; also present are qtz, biotite & some hornblende. Somewhat pegmatitic. Gneissosity @ 50°.

6.7-7.0: White pegmatite.

7.0-7.5: Amphibolite. Black.

27.4-27.9: " "

36.3-37.2: White pegmatite.

39.0-43.5 : AMPHIBOLITE. Black, med-grd.

43.5-145.3 : GRANITE GNEISS. As above.

145.3-148.0: AMPHIBOLITE. Dk gray, med-grd. White feldspar w biotite & hornblende.

148.0-149.1: PYROXENE-FELDSPAR SKARN. Dk green. Mostly pyroxene w some big white spots of feldspar.

149.1-150.0: PYROXENE-FELDSPAR GRANOFELS. F-grd, sugary. Skarny towards end.

150.0-155.8: AMPHIBOLITE. Black, med-grd. Foliation @ 50°.

155.8-160.0: GRANITE GNEISS. Med-grd, pinkish. Biotite flecking, grades into next.

160.0-163.4: PEGMATITE. Crse-grd, whitish to pinkish. Microcline, qtz, and small bits of pyroxene.

163.4-167.2: FELDSPATHIC CONTACT ROCK. Mainly white plagioclase (anorthosite) w patches of pyroxene skarn. Pink calcite (2") @ 164.8, 166.0, 166.8. Scattered pyroxene crystals. Med-crse grd.

167.2-177.7: PYROXENE-FELDSPAR GNEISS. 40° to core. Crse-grd. Streaks of skarn in places. Green pyroxene and white plagioclase.

170.3: 1" pink calcite.

170.6-171.1: Pink-orange calcite. Large microcline crystal at 170.8.

175.0-175.2: 2" purple fluorite.

177.7-186.3: PYROXENE-FELDSPAR SKARN. Variable crse-grd rock w crse white feldspar and crse pyroxene. Pegmatitic aspect.

186.3-200.7: PYROXENE PEGMATITIC GRANITE. Pink, med-grd to crse w pyroxene as grains or crse lumps. Predominant pink feldspar. Somewhat syenitic in places (low qtz).

189.8-190.3; 191.0-192.3: Much pyroxene-feldspar skarn.

200.7-211.7: PYROXENE PEGMATITIC HYBRID GNEISS. Bands of pyrOx-feld & pyroxenitic amphibolite up to 4 or 5" intercalated w whitish pegmatitic bands up to 6" wide.

211.7-213.7: PEGMATITE. Crse-grd, pinkish. Microcline, qtz, & sparse pyroxene.

213.7-216.1: PYROXENE GNEISS.

216.1-221.0: PEGMATITE. Whitish. Abundant move-gray qtz.

221.0-230.0: PYROXENE SKARN & GNEISS. Few scattered pegmatitic bands & stringers.

END OF HOLE - 230 ft.

LIST OF SAMPLES

			%U308	%ThO	
#1021	173.7-175.0	1.3 ft.			Pyx-feld gneiss
#1022	178.8-180.0	1.2			Pyx-feld skarn

DIAMOND DRILL LOG

PROPERTY	: Groundstar Resources Ltd.	HOLE NO.	: G-7
LOCATION	: Huddersfield Twsp., Pontiac County, Quebec.	DIP	: -90°
CLAIM	: Mining Conc. #A23, Lot 17, Range V.	BEARING	: -
LATITUDE	: 2+00 NW	LENGTH	: 249 ft.
DEPARTURE	: O-NE	STARTED	: Feb. 18, 1976
CORE SIZE	: AQ	COMPLETED	: Feb. 19, 1976
		LOGGED BY	: H. Dowhaluk
		DRILLED BY	: Hosking D.D. Co.

0-3.3 : OVERBURDEN. Casing.
 3.3-6.9 : PEGMATITIC GRANITE. Pink, crse-grd.
 6.9-9.7 : PEGMATITE. Pink, crse-grd.
 9.7-11.8 : PEGMATITIC GRANITE. Gneissocity @ 70°.
 11.8-14.4 : PEGMATITE. Pink, crse.
 14.4-15.5 : GRANITE GNEISS.
 15.5-16.7 : AMPHIBOLITE. Black, f-grd.
 16.7-41.4 : GRANITE GNEISS. Pinkish, @ 70°. Pink feldspar stretched out in lensy forms, qtz, biotite. A few small amphibolitic lenses. Pegmatitic in spots.
 41.4-49.7 : AMPHIBOLITE. Black, med-grd., @ 60°. Some granite gneiss lenses.
 49.7-53.1 : GRANITE GNEISS. Pink, med-grd mostly.
 53.1-54.7 : AMPHIBOLITE. Black, med-grd.
 54.7-83.3 : GRANITE GNEISS. Med-grd, somewhat aplitic (sugary). Gneissocity @ 60°.
 83.3-84.8 : AMPHIBOLITE. Med-grd.
 84.8-88.0 : PEGMATITE. Whitish. Black streaks of hornblende-biotite, last 0.7 ft. very mafic.
 88.0-120.9 : GRANITE GNEISS. Somewhat sugary-textured, f-med grd. Kxst
 120.9-124.8 : QUARTZ DIORITE. Lt gray. F-med grd. Mostly white plagioclase w quartz and some phlogopite.
 124.8-133.3 : PEGMATITIC GRANITE GNEISS. Pink feldspar in crse lenses w some qtz and conspicuous biotite streaks. Fault contact w next (40° to core and 70° to gneissocity). Some biotite shearing over 1" at fault.
 133.3-134.2 : AMPHIBOLITE. Black, f-grd.
 134.2-147.7 : PEGMATITIC GRANITE GNEISS.
 147.7-148.8 : AMPHIBOLITE. Black, med-grd.
 148.8-149.9 : PYROXENE GNEISS. Dk green, mostly pyroxene w some white plagioclase. Med-grd, some sphene & py.
 149.9-151.0 : SILICATED LIMESTONE. 30-50% white calcite & carbonate w small lumps, grains, and crystals of pyroxene. Some white feldspar.
 151.0-154.8 : PYROXENE AMPHIBOLITE. F-med grd. Hornblende mostly w pyroxene, plagioclase. Some sphene & py.
 154.8-155.5 : SILICATED LIMESTONE. As above.
 155.5-161.8 : PEGMATITE. Whitish. Crse-grd, med-grd towards contacts. White plagioclase mostly w qtz, pyroxene & sphene.
 161.8-169.1 : SILICATED LIMESTONE. Over 50% white calcite w lumps and crystals of pyroxene.
 164.6-165.3 : Pyroxene-feldspar granofels.
 168.2-168.5 : Pink calcite @ 40°. ½" lens of py w ¼" magnetite alongside it. Large tabular crystal of black tourmaline & purple fluorite.
 169.1-170.0 : PYROXENE-FELDSPAR GRANOFELS. Dk green, sugary grd.
 170.0-170.7 : PYROXENE-FELDSPAR SKARN. Very crse-grd pyroxene w crse white plagioclase. Grades into next.
 170.7-172.3 : PEGMATITE. Whitish. White feldspar, qtz, & crse crystals of pyroxene. Grades into next.

(cont)

G-7

- 172.3-182.6: PYROXENE-FELDSPAR SKARN & GNEISS. Crse streaky pyroxene & white plagioclase. Small amounts of carbonate in places.
- 182.6-184.4: SILICATED LIMESTONE. White calcite (50%) w large grains & crystals of pyroxene.
- 184.4-188.1: PYROXENE-FELDSPAR GNEISS & SKARN. Some sphene. Grades into next.
- 188.1-189.8: PEGMATITE. Pinkish microcline, qtz, & pyroxene.
- 189.8-190.7: PYROXENE-FELDSPAR GNEISS.
- 190.7-192.2: PEGMATITE. White & pink feldspar, qtz & pyroxene.
- 192.2-195.5: PYROXENE-FELDSPAR GRANOFELS. Sugary grd, dark green.
- 195.5-203.0: PEGMATITE. Pink. Crse pinkish feldspar, qtz & pyroxene.
- 203.0-204.4: PYROXENE-FELDSPAR SKARN & GNEISS.
- 204.4-208.5: PEGMATITE. Pinkish white w crse pyroxene.
- 208.5-217.0: PYROXENE-FELDSPAR GNEISS & SKARN.
- 217.0-232.2: PEGMATITE. Pinkish white, w pyroxene often in crse patches.
- 232.2-236.7: PYROXENE-FELDSPAR SKARN.
- 236.7-238.2: PEGMATITE. Pinkish, w pyroxene.
- 238.2-245.1: PYROXENE-FELDSPAR GNEISS & SKARN.
- 245.1-249.0: PEGMATITE. Pinkish white.

END OF HOLE - 249 ft.

No samples taken.

DIAMOND DRILL LOG

PROPERTY : Groundstar Resources Ltd.
 LOCATION : Huddersfield Twsp., Pontiac
 County, Quebec.
 CLAIM : Mining Conc. #423, Lot 17,
 Range V
 LATITUDE : 2+00 NW
 DEPARTURE : 0+77 NE
 CORE SIZE : Aq

HOLE NO. : G-8
 DIP : -45°
 BEARING : N 50° E
 LENGTH : 160 ft.
 STARTED : Feb. 21, 1976
 COMPLETED : Feb. 22, 1976
 LOGGED BY : H. Dowhaluk
 DRILLED BY : Hosking D.D. Co.

0-5.0 : OVERBURDEN. Casing.
 5.0-35.5 : GRANITE GNEISS. Med-crse grd. Some lenticular development
 of pink feldspar. K-feldspar, plagioclase (some), qtz,
 and biotite & hornblende. 70% to core.
 35.5-36.5 : QUARTZ DIORITE. Lt gray, med-grd. Mostly white plagioclase
 w qtz. Some phlogopite, py.
 36.5-37.4 : PYROXENE-FELDSPAR SKARN. Dk greenish gray. Crse pyroxene
 w white feldspar & qtz. Also py, po, sphene.
 37.4-92.0 : PEGMATITIC GRANITE GNEISS. Very crse-grd.
 92.0-106.1 : QUARTZ DIORITE. Whitish, crse-grd. Mostly white plagioclase
 w oval qtz grains w scattered grains or mottles of pyr-
 oxene. Some sphene, py, pyrrhotite.
 106.1-107.2 : PYROXENE-FELDSPAR SKARN. Crse pyroxene & white plagioclase
 mostly. Some granofels at start.
 107.2-108.5 : CALCITE. Orange-pink, pure.
 108.5-112.1 : SILICATED LIMESTONE. White calcite w 40% pyroxene as grains
 and masses or isolated crystals. Some sphene & py.
 112.1-114.4 : PYROXENE-FELDSPAR SKARN. Crse, variable. Pyroxene & white
 plagioclase.
 114.4-116.8 : SILICATED LIMESTONE. As above.
 116.8-120.3 : AMPHIBOLITE. Black. Mostly hornblende. Some white plagioclase
 pyroxene & biotite. Sparse py.
 120.3-124.0 : BIOTITE-PLAGIOCLASE GNEISS. Whitish. Mostly white plagioclase
 w prominent streaks of biotite. Minor py.
 124.0-127.2 : PYROXENE-FELDSPAR SKARN. Mostly wh plagioclase.
 127.2-132.7 : SILICATED LIMESTONE. Mostly white and pink calcite w about
 30% pyroxene grains & crystals. Minor sphene, scapolite,
 py.
 132.7-134.0 : PYROXENE-FELDSPAR GRANOFELS & SKARN. Much wh plagioclase.
 134.0-135.4 : SILICATED LIMESTONE. As above.
 135.4-136.7 : PYROXENE-FELDSPAR GRANOFELS. F-grd, sugary. Mostly pyroxene.
 136.7-137.8 : PEGMATITE. White. Qtz, wh plagioclase & pyroxene.
 137.8-140.5 : SILICATED LIMESTONE. As above. Few small pyroxenite bands.
 140.5-141.9 : PYROXENE-FELDSPAR GRANOFELS. F-grd, sugary. Dk green. Sphene.
 141.9-143.3 : SILICATED LIMESTONE. Pink & wh calcite w pyroxene.
 143.3-144.5 : PYROXENE-FELDSPAR GRANOFELS.
 144.5-151.3 : PEGMATITIC GRANITE GNEISS. Pinkish. Pink feldspar, qtz &
 grains of pyroxene. Some sphene.
 151.3-155.0 : PYROXENE GNEISS. Abundant pegmatitic stringers.
 155.0-160.0 : PEGMATITIC GRANITE GNEISS. Crse grd becoming med-grd. Pyr-
 oxene changing to biotite towards end. Some pyroxene
 streaks and bands.

END OF HOLE - 160 ft.

No samples taken.

DIAMOND DRILL RECORD

CAMP ZONE

PROPERTY	: Groundstar Resources Ltd.	HOLE NO.	: G-9
LOCATION	: Huddersfield Twsp., Pontiac	DIP	: -55°
	County, Quebec.	BEARING	: S 50° W
CLAIM	: Mining Conc. #423, Lot 19, R-V.	LENGTH	: 104 ft.
LATITUDE	: O-NW	STARTED	: Feb. 24, 1976
DEPARTURE	: O+53 SW	COMPLETED	: Feb. 25, 1976
CORE SIZE	: AQ	LOGGED BY	: H. Dowhaluk
DRILLED BY	: Hosking D. D. Co. Ltd.		

0-7.0 : OVERBURDEN. Casing.

7.0-17.3 : SILICATED LIMESTONE. Pink, white, pale greenish. About 85% calcite w scattered grains or small books of phlogopite and pale glassy, lt green pyroxene. Occasional serpentine or serpentinized pyroxene.

14.3-16.7: Radioactive zone. Scattered black grains of uraninite which resemble magnetite but show reddish on thin edges and tendency to cubic forms. Metamict. Up to 300 cps in shield.

17.3-20.9 : PYROXENE-PHLOGOPITE SKARN. Very crse-grd. Some white plagioclase.

20.9-23.0 : PYROXENE-FELDSPAR GRANOFELS. Med-grd, sugary. Lt green. The pyroxene quite pale colored (lt greenish).

23.0-24.7 : SILICATED LIMESTONE. Crse, white w 15-20% phlogopite and pale green pyroxene.

24.7-26.1 : PYROXENE-PHLOGOPITE SKARN. A medium green colour. Tendency to sugary texture in places. Pyroxene, phlogopite, white plagioclase.

26.1-27.4 : SILICATED LIMESTONE. About 40% phlogopite, pyroxene and serpentine.

27.4-37.7 : PYROXENE-FELDSPAR GRANOFELS. Med-grd, green, very sugary-textured. Strong tendency to skarn in spots especially wherever calcite appears.

31.2, 31.5, 32.8, 34.2-34.8, 36.3, 36.8-37.0: Calcite.

37.7-39.4 : LIMESTONE. Pure, pale pinkish white.

39.4-42.4 : PYROXENE-FELDSPAR GRANOFELS. As above. Abundant serpentine.

41.1-41.7: Anorthosite. White, f-grd.

42.4-44.5 : ANORTHOSITE. White. Some patches of lt olive serpentine. Med-grd. Essentially all plagioclase (probably albite).

44.5-86.2 : PYROXENE-FELDSPAR GRANOFELS. Lt green pyroxene, phlogopite (w tendency to large flakes) and inconspicuous white plagioclase. Tendency to skarn and serpentinized. Lt green color and mostly med-grd. 75.5-77.4, 83.9-85.7: Crse phlog.

86.2-92.7 : HORNBLende-PLAGIOCLASE GNEISS. Med-grd @ 70° to core. Medium colored. White plagioclase w streaks of hornblende and lesser pyroxene.

92.7-94.9 : PYROXENE-PHLOGOPITE SKARN. Very crse green pyroxene (uralitized to actinolite) and phlogopite. 5-10% pink calcite.

94.9-96.3 : PYROXENE-PLAGIOCLASE GRANOFELS. As before, w serpentine.

96.3-98.5 : HORNBLende-PLAGIOCLASE GNEISS.

98.5-104.0 : ALITE. Lt pinkish gray. Sugary, f-grd granite.

End of hole - 104 ft.

LIST OF SAMPLES

			%U308	lbs U308	%ThO2	lbs ThO2
#1026	14.3-16.7	2.4 ft.	0.099	1.98	0.10	2.00

DIAMOND DRILL RECORD

CAMP ZONE

PROPERTY : Groundstar Resources Ltd.
 LOCATION : Huddersfield Twsp., Pontiac
 County, Que.
 CLAIM : Mining Concession #423, Lot 19, R-V
 LATITUDE : 0+00 NW
 DEPARTURE : 0+00 NE
 DRILLED BY : Hosking D.D? Co. Ltd.
 CORE SIZE : AQ

HOLE NO. : G-10
 DIP : -55°
 BEARING : S 50° W
 LENGTH : 106 ft.
 STARTED : Feb. 26, 1976
 COMPLETED : Feb. 26, 1976
 LOGGED BY : H. Dowhaluk

0-7.0 : OVERBURDEN. Casing.
 7.0-10.7 : GRANODIORITE. Pinkish gray, med-grd. Somewhat variable from
 granite to qtz diorite composition. Minor py.
 10.7-11.5 : QUARTZ DIORITE. White, med-grd. Mostly white plagioclase w
 qtz and rare hornblende. Occasional sphene.
 11.5-13.0 : HORNBLENDE-PLAGIOCLASE GNEISS. Med to lt-colored. Black elong-
 ated grains of hornblende in white plagioclase. Minor
 pyroxene, py, pyrrhotite.
 13.0-15.2 : QUARTZ DIORITE. White, f-grd. White plagioclase w some quartz
 as elongated lenses. Minor sphene & hornblende.
 15.2-16.7 : HORNBLENDE-PLAGIOCLASE GNEISS. @ 70° to core.
 16.7-17.2 : QUARTZ DIORITE. White, as above.
 17.2-17.7 : HORNBLENDE-PLAGIOCLASE GNEISS.
 17.7-18.7 : QUARTZ DIORITE. White.
 18.7-20.6 : HORNBLENDE-PLAGIOCLASE GNEISS. In part going into amphibolite.
 Med-grd.
 20.6-21.9 : QUARTZ DIORITE. White, f-grd.
 21.9-23.5 : HORNBLENDE-PLAGIOCLASE GNEISS.
 23.5-29.7 : GRANITE GNEISS. @80°. Pinkish gray. Pink orthoclase, qtz, &
 biotite. Rare sphene & pyroxene.
 29.7-30.5 : HORNBLENDE-PLAGIOCLASE GNEISS.
 30.5-32.2 : ALKALI GRANITE. F-grd w some qtz diorite lenses. Bits of epid-
 ote, few ilmenite grains & sparse pyroxene.
 32.2-38.8 : HORNBLENDE-PLAGIOCLASE GNEISS. Crse-grd. 60° to core. Sparse
 pyroxene and rare sphene.
 38.8-42.0 : PYROXENE GRANOFELS. Pale green sugary pyroxene w a few flakes
 of phlogopite.
 42.0-42.5 : PYROXENITE. Dk green, crse-grd. Some phlogopite.
 42.5-42.8 : PINK CALCITE. 20% serpentine as blotchy grains, lt brown to
 dark green. Few grains of chondrodite, resinous dk reddish
 brown.
 42.8-44.0 : PYROXENE-FELDSPAR GRANULITE. Pale green, sugary.
 43.2-43.5: Crse biotite & calcite.
 44.0-44.7 : PINK CALCITE. 10% phlogopite. Minor serpentine & pyroxene.
 44.7-50.0 : FELDSPATHIC TACTITE. Dense, colloidal appearance. Lt greenish
 to buffy white, rather soft. Considerable serpentinized
 material (greenish to buff) which may be altered forsterite.
 50.0-55.5 : SILICATED LIMESTONE. Lt greenish color. 50% pale green pyrox-
 ene. White calcite.
 55.5-70.5 : PINK CALCITE. Crse-grd. Almost pure but some phlogopite scales
 and lt greenish pyroxene (usually in bands up to 6").
 70.5-79.0 : PYROXENE-PHLOGOPITE SKARN & GRANOFELS. Lt green. Crse to sugary
 Considerable carbonate content - up to 30% locally.
 72.6, 72.4, 73.1-73.4: Pink calcite.
 74.5-75.5: Radioactive, 190 cps.
 79.0-80.1 : PEGMATITE. Very crse microcline (mostly towards granite side)
 and white plagioclase (towards above), qtz & pyroxene.

(cont pg 2)

80.1-88.1 :GRANITE GNEISS. @70°. Pink feldspar, qtz & pyroxene.
88.1-106.0 :HORNBLTDE-PLAGIOCLASE GNEISS. @60° to core. The white plagioclase exhibiting some augen texture. Contains lenses of pink pegmatitic material.

END OF HOLE - 106 ft.

LIST OF SAMPLES

#1027	74.6-75.6	1.0 ft.	%U ₃ O ₈ 0.132	lbs U ₃ O ₈ 2.64	%ThO ₂ 0.07	lbs ThO ₂ 1.40
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DIAMOND DRILL LOG

CAMP ZONE

PROPERTY : Groundstar Resources Ltd.
 LOCATION : Huddersfield Twsp., Pontiac
 County, Que.
 CLAIM : Mining Concession #423, Lot 19, R-V.
 LATITUDE : 0+00 NW
 DEPARTURE : 0+01 NE
 DRILLED BY : Hosking D.D. Co. Ltd.
 CORE SIZE : AQ

HOLE NO. : G-11
 DIP : -80°
 BEARING : S 50° W
 LENGTH : 145 ft.
 STARTED : Feb. 26, 1976
 COMPLETED : Feb. 27, 1976
 LOGGED BY : H. Dowhaluk

0-5.8 : OVERBURDEN. Casing.
 5.8-9.0 : QTZ DIORITE GNEISS. F-grd. Qtz w white feldspar. Somewhat sugary. Gneissosity @ 60°. Small grains of hornblende.
 9.0-28.5 : HORNBLENDE-PLAGIOCLASE GNEISS. Crse-grd. Irregular, lenticular grains of hornblende. Feldspar inclined to augen texture. Med color, @ 50° to core. Some bands of felsic material w very little hornblende.
 23.6: Chalcopyrite on fracture.
 28.5-33.5 : PEGMATITIC GRANITE GNEISS. Pinkish, crse-grd. Small amounts of biotite and pyroxene.
 33.5-37.0 : HORNBLENDE-PLAGIOCLASE GNEISS. As above.
 37.0-41.2 : PEGMATITE. Very crse. Pinkish white feldspar, qtz, and patches or large grains of pyroxene and pale green serpentine.
 41.2-43.4 : PYROXENE GRANOFELS & SKARN. Mostly sugary, lt green pyroxene. Also white feldspar & some calcite. Serpentinized in places.
 43.4-44.9 : PYROXENE-PLAGIOCLASE GNEISS. Med-colored; green pyroxene & white plagioclase.
 44.9-45.2 : PYROXENE GRANOFELS. F-grd, sugary, serpentinized. Lt green to greenish white.
 45.2-47.6 : PYROXENE-FELDSPAR GNEISS. As above.
 47.6-49.3 : GRANITE GNEISS. Pinkish, @55°.
 49.3-50.0 : HORNBLENDE-PLAGIOCLASE GNEISS.
 50.0-53.7 : QUARTZITE. Whitish. F-grd to med-grd. About 95% glassy qtz grains, also bright green pyroxene, phlogopite, & some reddish garnets.
 53.7-60.0 : HORNBLENDE-PLAGIOCLASE GNEISS.
 60.0-61.5 : QUARTZITE. As above.
 61.5-65.0 : GRANITE GNEISS. Pinkish, crse-grd.
 65.0-67.5 : PYROXENE-PLAGIOCLASE GRANOFELS. Dk green, sugary, f-med-grd. Few spots w very crse pyroxene.
 67.5-68.6 : HORNBLENDE-PLAGIOCLASE GNEISS.
 68.6-70.3 : PYROXENE-PLAGIOCLASE GRANOFELS & SKARN.
 70.3-73.5 : HORNBLENDE-PLAGIOCLASE GNEISS.
 73.5-79.5 : PYROXENE-PLAGIOCLASE GNEISS & GRANOFELS. Lt green. Med-crse grd.
 79.5-82.6 : GRANITE GNEISS. Med-f-grd.
 82.6-85.0 : QUARTZITE. Lt gray. As above.
 85.0-91.5 : HORNBLENDE-PLAGIOCLASE GNEISS. Med-crse grd. Some qtz diorite lenses. Mainly white plagioclase w hornblende and lesser phlogopite.
 91.5-92.6 : QTZ DIORITE GNEISS. White. Qtz & white plagioclase.
 92.6-95.1 : HORNBLENDE-PLAGIOCLASE GNEISS.
 95.1-98.3 : QTZ DIORITE GNEISS.
 98.3-99.4 : HORNBLENDE-PLAGIOCLASE GNEISS. Grades into next.
 99.4-103.0 : PYROXENE-PLAGIOCLASE SKARN & GNEISS. Green, serpentinized in places.
 103.0-104.6 : PINK CALCITE. With 10% pyroxene & phlogopite.

(continued)

- 104.6-111.3:PYROXENE-PLAGIOCLASE GNEISS. Med-crse grd. Med color. Green pyroxene and white plagioclase. Some pegmatitic stringers.
- 111.3-121.0:GNEISSIC QTZ DIORITE. Whitish. White sugary plagioclase w qtz & bits of pyroxene.
- 121.0-128.0:PYROXENE SKARN & GNEISS, GRANOFELS. Med to very crse-grd. Dk green. Lt greenish white serpentine in places.
- 128.0-129.1:QTZ DIORITE. F-grd, whitish.
- 129.1-132.0:HORNBLende-PLAGIOCLASE GNEISS. Grades into next.
- 132.0-134.7:GRANITE GNEISS. @ 80°. Pinkish, crse-grd.
- 134.7-136.5:AMPHIBOLITE. Black, f-grd.
- 136.5-138.0:GRANITE. F-grd, sugary, aplitic. Pinkish.
- 138.0-138.5:PYROXENE SKARN. Crse to sugary dk green pyroxene. Some py and po grains.
- 138.5-145.0:LIMESTONE. White to pinkish. About 5-10% phlogopite & a few pyroxene crystals.

END OF HOLE - 145 ft.

No samples

PROPERTY	: Groundstar Resources Ltd.	HOLE NO.	: G-12
LOCATION	: Huddersfield Twsp., Pontiac County, Quebec.	DIP	: -45°
CLAIM	: Mining Conc. #423, LOT 19, R-V.	BEARING	: S 50° W
LATITUDE	: 1+00 SE	LENGTH	: 132 ft.
DEPARTURE	: 0+50 SW	STARTED	: Feb. 28, 1976
DRILLED BY	: Hosking D.D. Co. Ltd.	COMPLETED	: Feb. 28, 1976
CORE SIZE	: AQ	LOGGED BY	: H. Dowhaluk

0-5.0 : OVERBURDEN. Casing.

5.0-9.0 : HORNBLENDE-PLAGIOCLASE LEUCOGNEISS. Whitish to med colored, could be classed as a qtz diorite gneiss. Mainly white plagioclase w some hornblende & qtz in places.

9.0-15.5 : PYROXENE GRANOFELS. A sugary, med-grd compact rock made up mostly of granular pyroxene w some interstitial white plagioclase. Locally, small clumps or books of dark phlogopite up to 1". Pyroxene is lt green, even greenish white.

15.5-22.0 : SILICATED LIMESTONE. Whitish, greenish, pinkish. Med-grd, granular limestone w up to 30% pyroxene granules & small phlogopite specks and plates giving it a somewhat peppered appearance. Pyroxene is pale greenish white, translucent to nearly transparent & colorless.

19.0-19.5: Mostly phlogopite.

20.0-30.0: RADIOACTIVE ZONE. Contains black grains (tending to cubes) of uraninite (reddish on thin edges suggesting thorianite in part), orange to yellowish and brownish, resinous uranothorite. Also uranophane which is readily picked out with the ultraviolet lamp as a yellow fluorescence.

22.0-24.3 : PINK LIMESTONE. Crse-grd, pink w only 10-20% pale greenish to colorless pyroxene granules & crystals. Also phlogopite

24.3-25.0 : SILICATED LIMESTONE. As above.

25.0-27.5 : PYROXENE GRANOFELS. Pale green, sugary pyroxene w a little calcite, phlogopite w orange translucent uranothorite and reddish black thorianite. Considerable carbonate.

27.5-34.7 : SILICATED LIMESTONE. Pinkish. Up to 50% or more of greenish white pyroxene. Some phlogopite.

34.7-35.7 : PYROXENE-PLAGIOCLASE-CALCITE SKARN. Very crse.

35.7-41.0 : PYROXENE GRANOFELS. Med-grd, sugary, pyroxene granules & some white plagioclase.

41.0-43.7 : PYROXENE-PHLOGOPITE-CALCITE SKARN. Crse. Phlogopite in masses or books up to 2".

43.7-46.8 : SILICATED LIMESTONE. Pink mostly. Up to 50% pale greenish translucent pyroxene. Some phlogopite, especially at contact w next.

46.8-47.4 : PYROXENE GRANOFELS.

47.4-49.9 : QUARTZ MONZONITE. Pinkish-buffy, f-grd. White plagioclase, orthoclase, some quartz and small amt of hornblende. Gneissosity @ 20° to core.

49.9-59.4 : PYROXENE-FELDSPAR GRANOFELS. Med green color, med-grd sugary pyroxene and plagioclase. Clumps of phlogopite.

54.5-54.9; 55.0-55.6; 57.0-57.7: abundant chalky white, powdery white feldspar (mylonite or weathered feldspar)

54.0-59.4: Often quite serpentized next to above zones - light greenish.

54.0-54.5; 58.0-58.6: Dark phlogopite.

(continued)

- 59.4-64.8 :SILICATED LIMESTONE. Whitish, pinkish. Up to 50% pale greenish to white translucent pyroxene and abundant phlogopite.
- 64.8-67.3 :PYROXENE GRANOFELS. Med-grd, sugary, mostly pale green pyroxene.
- 67.3-68.7 :QTZ DIORITE GNEISS. F-med grd, whitish. Mostly white plagioclase w a little qtz and sparse hornblende.
- 68.7-72.8 :PYROXENE-PLAGIOCLASE GRANOFELS. Med-grd and skarny in spots w crse pyroxene and phlogopite. Mostly lt green pyroxene.
- 72.8-74.8 :SILICATED LIMESTONE. White to pale pinkish. Up to 50% pyroxene & phlogopite. Pyroxene as translucent greenish white to colorless crystals and grains.
- 74.8-75.4 :PHLOGOPITE. Brownish black w bronzy sheen. A large book.
- 75.4-76.9 :SILICATED LIMESTONE. White, w 30-40% pale green pyroxene & some phlogopite.
- 76.9-84.2 :PYROXENE GRANOFELS. Med-green color, med-grd, sugary. Some skarny patches w crse pyroxene, plagioclase & calcite. 82.6-83.5; 86.3-87.6: Mostly white plagioclase, almost dense w some patches of pale olive-green serpentine (altered forsterite?).
- 94.2-96.0 :SILICATED LIMESTONE. Up to 30% pale translucent pyroxene. Some phlogopite.
- 96.0-99.2 :PYROXENE-PHLOGOPITE SKARN. Very crse. Few bits of calcite.
- 99.2-114.9 :PYROXENE GRANOFELS. Lt green, med-grd, occasionally crse-grd. Pyroxene mostly, some white plagioclase, occasional phlogopite. Scattered pink calcite as little veinlets.
- 114.9-117.5: SILICATED LIMESTONE. Pinkish. About 70% white pyroxene & crse phlogopite books & scales. Grades into next.
- 117.5-132.0: PYROXENE-FELDSPAR GRANOFELS. Sugary, f-grd to med-grd. Med-green color.
126.8-127.1: Sil lm w pyx & phlog.
129.7-130.0: Lt olive-white forsterite(?). Serpentinized nearby.

END OF HOLE - 132 ft.

LIST OF SAMPLES

			%U ₃ O ₈	lbs U ₃ O ₈	%ThO ₂	lbs ThO ₂
#1028	20.0-22.0	2.0 ft.	0.220	4.40	0.28	5.60
#1029	22.0-24.3	2.3	0.008	0.16	Tr	Tr
#1030	24.3-28.1	3.8	0.513	10.26	0.38	7.60
#1031	28.1-30.0	1.9	0.108	2.16	0.11	2.20

AVERAGES

20.0-30.0	10.0 ft.	0.222	4.44	0.261	5.23
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DIAMOND DRILL LOG

CAMP ZONE

PROPERTY : Groundstar Resources Ltd
LOCATION : Huddersfield Twsp., Pontiac
County, Quebec.
CLAIM : MINING Conc. #23, Lot 19, R-V
LATITUDE : 1+00 SE
DEPARTURE : 0+49 SW
DRILLED BY: Hosking D.D. Co. Ltd.
CORE SIZE : AQ

HOLE NO. : G-13
DIP : -90°
BEARING : -
LENGTH : 71 ft.
STARTED : Feb. 29, 1976
COMPLETED : Feb. 29, 1976
LOGGED BY : H. Dowhaluk

0-5.8 : OVERBURDEN. Casing.
5.8-7.7 : QTZ DIORITE GNEISS. F-grd. White plagioclase, qtz, and some pale green pyroxene and phlogopite.
7.7-9.6 : HORNBLENDE-PLAGIOCLASE GNEISS. Crse-grd, med color.
9.6-10.5 : QTZ DIORITE GNEISS. F-grd.
10.5-13.5 : HORNBLENDE-PLAGIOCLASE GNEISS. Rather lt-colored. Crse-grd.
13.5-17.8 : QTZ DIORITE GNEISS.
17.8-25.6 : HORNBLENDE-PLAGIOCLASE GNEISS. @ 40° to core. Augen development of feldspars.
25.6-30.7 : PYROXENE GRANOFELS. Mostly sugary f-med-grd pyroxene w a few patches of skarny material.
30.7-32.6 : PHLOGOPITE SKARN. Mostly phlogopite w some calcite & pyroxene.
32.6-33.3 : SILICATED LIMESTONE. White w crse phlog & pyroxene.
33.3-34.4 : PYROXENE GRANOFELS. Lt green.
34.4-41.0 : SILICATED LIMESTONE. White w 30% pale greenish white to translucent pyroxene & phlogopite. Grades into next.
41.0-41.9 : PYROXENE-PHLOGOPITE SKARN.
41.9-49.0 : QTZ DIORITE GNEISS. Wh plagioclase w some qtz & small amt of hornblende & pyroxene. Whitish. @80° to core.
49.0-54.0 : PYROXENE GRANOFELS. Skarny in part, some phlogopite.
54.0-57.0 : QTZ DIORITE. Med-grd. Whitish w bits of pyroxene. Mostly white plagioclase & some qtz.
57.0-63.6 : PYROXENE-FELDSPAR SKARN & GNEISS. Very crse, somewhat gneissic. Crse pyroxene & crse white plagioclase. May be a shatter zone (some serpentinization).
63.6-69.5 : GRANITE GNEISS. Pink @ 80°. Pink orthoclase, qtz and hornblende specks.
69.5-71.0 : HORNBLENDE-PLAGIOCLASE GNEISS. Hornblende, plagioclase & minor orthoclase.

END OF HOLE - 71 ft.

No samples taken

PROPERTY	: Groundstar Resources Ltd.	HOLE NO.	: G-14
LOCATION	: Huddersfield Twsp., Pontiac County, Quebec.	DIP	: -45°
CLAIM	: Mining Conc. #423, Lot 19, R-IV.	BEARING	: S 50° W
LATITUDE	: 2+00 SE	LENGTH	: 119 ft.
DEPARTURE	: 0+65 SW	STARTED	: Mar. 2, 1976
DRILLED BY	: Hosking D.D.Co. Ltd.	COMPLETED	: Mar. 2, 1976
CORE SIZE	: AQ	LOGGED BY	: H. Dowha Luk

0-5.6 : OVERBURDEN. Casing.

5.6-9.6 : PYROXENE-PLAGIOCLASE GNEISS. Med-crse grd. Dk green pyroxene peppered through white plagioclase. Some small granofels sections.

9.6-17.5 : PEGMATITIC QTZ DIORITE. Very crse-grd w white to buffy feldspar, qtz and bits of pyroxene. Whitish. Grades into next.

17.5-28.1 : QTZ DIORITE. F-med grd, sugary aplitic texture. Some greissosity @ 40°. Some sections grading into qtz monzonite (pale pinkish buff).

28.1-35.0 : HORNBLENDE-PLAGIOCLASE GNEISS. Very prominent hornblende streaking in white plagioclase, some qtz. Some qtz diorite lenses.

35.0-39.2 : QTZ DIORITE. Med-crse grd, even pegmatitic in spots. Mostly white plagioclase, some qtz and few grains of pyroxene.

39.2-46.3 : PYROXENE SKARN. Dk green, very crse-grd w patches of nearly black phlogopite. Minor calcite.

46.3-46.8 : SILICATED LIMESTONE. Pinkish to pale green. About 50% pale green diopside grains.

46.8-47.6 : PYROXENE-PLAGIOCLASE-CALCITE GRANOFELS. Lt green diopside mostly. Sugary, med-grd w white plagioclase & calcite.

47.6-53.7 : NO CORE. Crevice.

53.7-54.0 : SILICATED LIMESTONE. Up to 20% small, pale green pyroxene grains. White.

54.0-58.4 : PYROXENE SKARN & GNEISS, GRANOFELS. Very crse at contact w above w much phlogopite.

58.4-59.4 : SILICATED LIMESTONE. Pinkish calcite w pyroxene & phlogopite (20%) mostly towards the edges.

59.4-59.9 : PYROXENE-PHLOGOPITE SKARN. Black, mostly phlogopite.

59.9-72.0 : SILICATED LIMESTONE. Mostly pink or pale greenish white. Up to 50% or more of very pale diopside grains & some small flakes of phlogopite. Occasional banding @ 40°.

72.0-74.8 : PYROXENE-PHLOGOPITE SKARN. Very crse. Dk green pyroxene & brown-black phlogopite.

74.8-76.2 : SILICATED LIMESTONE. White. 20% pyroxene-phlogopite.

76.2-77.3 : PYROXENE GRANOFELS. Almost entirely f-grd pale green diopside.

77.3-80.3 : SILICATED LIMESTONE. White w up to 20% fine-grd pyroxene & phlogopite.

80.3-82.5 : DIORITE. Black to greenish black, f-grd. Massive, equigranular, dike-like. About equal proportions of white plagioclase and black hornblende w very abundant sphene and some green diopside (sparse). Faint foliation @ 30°. Amphibolite kinship. Sharp contacts.

82.5-85.0 : PYROXENE SKARN. Mostly crse pyroxene, dark green, w some small patches of pale green sugary pyroxene. Some large blocks of phlogopite.

85.0-94.4 : PYROXENE GRANOFELS. About 90% pale green-white pyroxene grains, small amt of phlogopite and up to 10% calcite.

85.0-85.2; 85.4; 87.6-88.2; 88.9-90.2: Calcite.

(continued)

- 94.4-95.5 :DIORITE. Nearly black, f-grd, massive, equigranular rock.
Dike-like in appearance. Contacts @ 30° & 50° resp.
- 95.5-105.1 :PYROXENE-PLAGIOCLASE GRANOFELS & SKARN. Patches of crse pyroxene and phlogopite. Crse pyroxenite in part and very heavy phlogopite in places (i.e. 103.0-105.0).
98.0-98.5: Pegmatite. White plag & qtz.
- 105.1-109.5:PYROXENE GRANOFELS. Med-grd, sugary. Lt green pyroxene mostly.
- 109.5-114.5:PYROXENE-FELDSPAR SKARN & GRANOFELS.
- 114.5-117.1:PYROXENE GRANOFELS. Contains 40% pink calcite in seams & patches. Pyroxene is lt green color. Some phlogopite.
- 117.1-119.0:PYROXENE-FELDSPAR GRANOFELS. Lt green.

END OF HOLE - 119 ft.

No samples taken

PROPERTY	: Groundstar Resources Ltd.	HOLE NO.	: G-15
LOCATION	: Huddersfield Twsp., Pontiac	DIP	: -45°
	County, Que.	BEARING	: N 45° E
CLAIM	: Mining Conc. #423, Lot 19, R-IV	LENGTH	: 115 ft.
LATITUDE	: 1+00 SE	STARTED	: Mar. 3, 1976
DEPARTURE	: 2+15 SW	COMPLETED	: Mar. 4, 1976
DRILLED BY	: Hosking D.D. Co. Ltd.	LOGGED BY	: H. Dowhaluk
CORE SIZE	: AQ		

0-6.0 : OVERBURDEN. Casing.

6.0-10.2 : PYROXENE-FELDSPAR GRANOFELS & SKARN. Lt to dk green (variable color) sugary pyroxene w patches of crse dk green pyroxene, white feldspar & phlogopite.

10.2-12.8 : HORNBLENDE-PLAGIOCLASE GNEISS. @40°. Fairly well developed large augen of white plagioclase. Occasional microcline metacryst up to 1", buffy gray color.

12.8-17.1 : QTZ DIORITE. White, med-grd. Granite for first few inches. Small lenses of hornblende-plagioclase gneiss.

17.1-23.3 : PYROXENE GRANOFELS & SKARN. Mostly med-grd, sugary, lt green. 19.6-20.0: 3 bits of purple fluorite up to 1".

23.3-27.7 : GRANITE GNEISS. Pink, crse-grd. Pink feldspar mainly, a little white plagioclase, hornblende & sphene. Small pyroxenite lenses 1-3".

27.7-29.4 : AMPHIBOLITE. Black, med-grd. @60°.

29.4-33.4 : ALKALI GRANITE. Gneissic. Brownish pink. Pink feldspar streak-out in lenses, w qtz and small spots of hornblende. Med-crse grd.

33.4-35.7 : AMPHIBOLITE. Black. Occasional small lenses of alkali granite.

35.7-37.0 : ALKALI GRANITE GNEISS. Some amphibolitic streaks.

37.0-62.7 : AMPHIBOLITE. Black. Some small bits and grains of pink feldspar; also few bands of alkali granite up to 6", @ 80°.

62.7-73.3 : PEGMATITIC GRANITE. Pink. Mostly pink K-feldspar w sparse white plag; qtz & small bits of pyroxene. Slight gneissosity @55°. Very coarsely pegmatitic at contact w next which could be a fault contact. Small Z-shaped drag folded lens of microcline on granite side of contact. Granite appears to be mylonitized at contact.

73.3-83.9 : PYROXENE GNEISS. Mostly med-green pyroxene w biotite, qtz streaks, white plagioclase & rare calcite. @60° to core. Green pyroxenite near contacts. At 77.0', Z-shaped drag fold.

82.3-82.8; 82.9-83.1: Pink pegmatite.

83.9-88.6 : PEGMATITIC GRANITE. As above.

88.6-93.0 : QTZ DIORITE GNEISS. Med-gray, med-grd. White plag, qtz & lt green pyroxene, black biotite, sphene.

93.0-101.8 : PYROXENE-FELDSPAR SKARN. Crse, pegmatitic. Lt green pyroxene & white feldspar.

101.8-103.6: GRANODIORITE. Pinkish white. Mostly white plag, sparse pink K-feldspar & bits of hornblende.

103.6-106.4: QTZ DIORITE. Lt gray. White plagioclase w qtz & cons hornblende.

106.4-109.7: PYROXENE GRANOFELS. Med-grd, sugary. Dk green pyroxene mostly grading into very lt greenish white pyroxene towards end.

109.7-112.1: SILICATED LIMESTONE. White w about 30% of lt glassy to translucent pyroxene (lt green), some phlogopite.

112.1-113.5: PYROXENE GRANOFELS. Lt green, sugary, med-grd.

113.5-115.0: SILICATED LIMESTONE. As above.

END OF HOLE - 115 ft.

No samples

DIAMOND DRILL LOG

CAMP ZONE

PROPERTY	: Groundstar Resources Ltd.	HOLE NO.	: G-16
LOCATION	: Huddersfield Twp., Pontiac County, Quebec.	DIP	: -45°
CLAIM	: Mining Conc. #423, Lot 19, R-V	BEARING	: S 50° W
LATITUDE	: 1+70 NW	LENGTH	: 47 ft.
DEPARTURE	: 0+00 NE	STARTED	: Mar. 5, 1976
DRILLED BY	: Hosking D.D.Co. Ltd.	COMPLETED	: Mar. 5, 1976
CORE SIZE	: AQ	LOGGED BY	: H. Dowhaluk

0-5.0 : OVERBURDEN. Casing.

5.0-6.1 : QTZ DIORITE GNEISS. Buffy white. Whitish plag, abundant qtz & minor hornblende. Med-grd. @45°.

6.1-7.6 : AMPHIBOLITE. Black, med-grd.

7.6-11.2 : QTZ DIORITE GNEISS. Buff colored. Mainly plag & qtz. Occasional minor K-feldspar in spots.

11.2-21.7 : HORNBLENDE-PLAGIOCLASE AUGEN GNEISS. Crse-grd. Well developed augen. @13' - 60°, @14' - 70°.

17.8-18.3: F-grd quartzite, gray, @60°.

21.7-25.0 : PEGMATITE. Mainly white (from crse wh plagioclase) w large dk green pyroxene masses & crystals (poorly developed). Also, some patches of lt olive material (forsterite?).

25.0-26.4 : PYROXENE-PLAGIOCLASE GRANOFELS. Med-grd, sugary. Mostly greenish white, translucent pyroxene & white plag. Considerable crse phlogopite towards contact w next (up to 50%).

26.4-28.4 : SILICATED LIMESTONE. About 50-60% deep pink calcite w bands of pyroxene or greenish calcite. Radioactive.

28.4-30.9 : PYROXENE-PHLOGOPITE SKARN. Mostly phlogopite & calcite at first going into pyroxene granofels towards end. Some white feldspar. Slightly radioactive.

30.9-33.8 : SILICATED LIMESTONE. Pale translucent diopside in patches & small books of phlogopite in pink calcite. Some pale orange-brown chondrodite in first 5".

33.8-36.1 : PYROXENE-FELDSPAR SKARN. Very crse dk green pyroxene w large masses of greenish white plagioclase. Some phlogopite.

36.1-37.0 : CALCITE. Lt pink, pure.

37.0-37.6 : PYROXENE-FELDSPAR SKARN. Crse, some phlogopite.

37.6-38.1 : CALCITE. White, pure.

38.1-38.8 : PYROXENE-FELDSPAR SKARN. Crse pyroxene & feldspar w mostly dk green pyroxene at end.

38.8-40.7 : BRECCIA. Crse lumps or fragments of pyroxene 1-2" in pink calcite matrix.

40.7-41.8 : PYROXENE-FELDSPAR SKARN. Dk green.

41.8-46.1 : PYROXENE GRANOFELS & GNEISS. Dk green.

46.1-47.0 : PEGMATITIC GRANITE. Crse-grd, pink.

END OF HOLE - 47 ft.

LIST OF SAMPLES

			%U ₃ O ₈	lbs U ₃ O ₈	%ThO ₂	lbs ThO ₂
#1032	26.4-28.4	2.0 ft.	0.084	1.63	0.16	3.20
#1033	28.4-30.4	2.0 ft.	0.017	0.34	0.02	0.40
AVERAGED	26.4-30.4	4.0 ft.	0.050	1.01	0.09	1.80

HARRY DOWHALUK

PROPERTY	: Groundstar Resources Ltd.	HOLE NO.	: G-17
LOCATION	: Huddersfield Twsp., Pontiac County, Quebec.	DIP	: -70°
CLAIM	: Mining Conc. #423, Lot 19, R-V	BEARING	: S 50° W
LATITUDE	: 1+70 NW	LENGTH	: 85 ft.
DEPARTURE	: 0+01 NE	STARTED	: Mar. 5, 1976
DRILLED BY	: Hosking D.O. Co. Ltd.	COMPLETED	: Mar. 6, 1976
CORE SIZE	: AQ	LOGGED BY	: H. Dowhaluk

0-4.0 : OVERBURDEN. Casing.

4.0-7.3 : GRANODIORITE GNEISS. Lt pinkish gray. Mainly qtz, wh plag, & some K-feldspar. Minor hornblende. @60°.

7.3-9.0 : AMPHIBOLITE. Black. Med-grd.

9.0-13.5 : QUARTZITE. Whitish to lt gray. A f-grd feldspathic qtzite w about equal plag & qtz. Well laminated in spots @ 80°.

13.5-23.9 : PYROXENE-FELDSPAR GRANOFELS. Dk green, med-grd. Some skarny sections w phlogopite gradually picking up carbonate content after 21.5 ft. Grading into next.

23.9-30.0 : SILICATED LIMESTONE. Pink w up to 30% streaks & scattered crystals of pale green-white pyroxene & small grains of phlogopite.

30.0-32.2 : PYROXENE SKARN. Crse pyroxene mostly w patches of calcite, phlogopite & crse wh plagioclase.

32.2-33.7 : QTZ DIORITE. White to greenish white. @40°. Practically all qtz and pegmatitic wh plag. Grading into f-grd towards end.

33.7-38.2 : PYROXENE SKARN. Crse med-green pyroxene, phlogopite (up to 3") & calcite. 2" pink calcite @ 37.3.

38.2-53.3 : PEGMATITIC GRANITE GNEISS. @50°. Crse-grd. Pink. Mostly K-feldspar & qtz, some plag & minor pyroxene. Contact w above @ 40° while gneissosity is @135°. Some cross-foliation @135° on the pyroxene side as well.

53.3-54.4 : HORNBLende-PLAGIOCLASE GNEISS. Augen of plag in part, amphibolitic lenses.

54.4-55.4 : GRANODIORITE GNEISS. Wh plag, qtz, lesser orthoclase, some hornblende. @60°.

55.4-57.8 : HORNBLende-PLAGIOCLASE GNEISS. Dk colored, crse-grd, @80°.

57.8-64.5 : PEGMATITIC GRANITE GNEISS. Pinkish crse K-feldspar, qtz & lesser plag. Crse-grd w lenticular development of feldspars. 65° @ 64.5, 60° @ 58.0.

64.5-77.0 : PYROXENE-FELDSPAR GNEISS & SKARN. Med-grd. Med-dk green pyroxene w scattered phlogopite, often in small patches. 50° @ 74.0. Occasional calcite in spots as suffused ribbons, etc.

77.0-85.0 : QTZ DIORITE GNEISS. Well banded. High qtz w wh plag & some hornblende (from sparse to heavy); flakes of phlogopite in places.. @60°. Siliceous in spots (qtzite) as well as feldspathic ribbons as well.

END OF HOLE - 85 ft.

No samples taken

PROPERTY	: Groundstar Resources Ltd.	HOLE NO.	: G-18
LOCATION	: Huddersfield Twsp., Pontiac County, Quebec.	DIP	: -90°
CLAIM	: Mining Conc. #423, Lot 19, R-V	BEARING	: -
LATITUDE	: 1+70 NW	LENGTH	: 116 ft.
DEAPRTURE	: O+02 NE	STARTED	: Mar. 6, 1976
DRILLED BY	: Hosking D.D.Co. Ltd.	COMPLETED	: Mar. 6, 1976
CORE SIZE	: AQ	LOGGED BY	: H. Dowhaluk

0-5.0 : OVERBURDEN.

5.0-9.3 : GRANODIORITE. Pale pinkish. Mainly qtz & wh plag w small amt of pink K-feldspar. Somewhat gneissic @ 60°. Fine specks of hornblende. Blastopsammitic texture, f-grd.

9.8-14.1 : AMPHIBOLITE. Black, med-grd.

14.1-16.3 : QUARTZITE. Grayish white. F-grd, @65°. Mainly white plag and qtz w pyroxene & phlogopite grains.

16.3-21.5 : HORNBLENDE-PLAGIOCLASE GNEISS. Crse-grd, augen-textured.

21.5-26.8 : PYROXENE-PLAGIOCLASE GNEISS. Med-crse grd. @60°.

26.8-35.2 : SILICATED LIMESTONE. White to pink w up to 30 or 40% pyroxene as large grains or crystals and books of phlogopite. Minor purple fluorite in fracture @ 30.3.

35.2-39.2 : PYROXENE-FELDSPAR SKARN. Dk green. Some white plag, phlogopite & calcite.

39.2-43.0 : QTZ MONZONITE. Pinkish lt gray. Qtz, plag & orthoclase in about equal amts. Grains of pyroxene; grading into next.

43.0-49.0 : PYROXENE-FELDSPAR SKARN. Dk green.
43.1-43.7: Abundant crse phlogopite.

49.0-49.7 : QTZ DIORITE. Whitish w pyroxene.

49.7-52.9 : PYROXENE GNEISS. Crse-grd, variable. Granofels in part and some blotches of white plagioclase.

52.9-56.3 : GRANODIORITE GNEISS. Pinkish white, med-grd.

56.3-62.1 : HORNBLENDE-PLAGIOCLASE GNEISS. @70°. Crse-grd w augen texture.

62.1-63.2 : PYROXENE GRANOFELS. Dk green. Mostly f-grd, sugary pyroxene.

63.2-65.2 : GRANITE GNEISS. Pink, crse-grd. Slightly pegamtitic.

65.2-68.3 : HORNBLENDE-PLAGIOCLASE GNEISS. Crse-grd, some granite gneiss lenses.

68.3-68.9 : GRANITE GNEISS.

68.9-69.4 : HORNBLENDE-PLAGIOCLASE GNEISS.

69.4-73.6 : GRANITE GNEISS. Crse-grd, @ 70°.

73.6-76.6 : HORNBLENDE-PLAGIOCLASE GNEISS.

76.6-80.3 : PYROXENE-FELDSPAR GNEISS. Lenticular gneiss w pyroxene, orthoclase & plagioclase. Some earthy hematite giving the whole rock a reddish aspect.

80.3-83.8 : HORNBLENDE-PLAGIOCLASE GNEISS. Med-colored. More plag content than usual.

83.8-86.5 : QTZ DIORITE. F-grd. White plag, qtz & minor pyroxene, @70°.

86.5-95.3 : HORNBLENDE-PLAGIOCLASE GNEISS. Lt colored, plag predominant, @ 80°.

95.3-99.8 : GRANITE GNEISS. Pink, @90°. Med-grd. Pink orthoclase, some white plag, qtz & minor hornblende. Lenticular to blastopsammitic.

99.8-100.9 : HORNBLENDE-PLAGIOCLASE GNEISS. Crse-grd, augen texture.

100.9-101.6 : PYROXENE-FELDSPAR GNEISS. Banded in pyroxene & plag layers.

101.6-104.4 : SILICATED LIMESTONE. Pinkish white. Up to 20% or more of pyroxene as small bands, lumps or grains & crystals. Some phlogopite.

104.4-105.1 : HORNBLENDE-PLAGIOCLASE GNEISS. @ 50°

(continued)

- 105.1-106.1:PYROXENE-FELDSPAR SKARN. Crse pyroxene, wh plag & phlogopite. Grading into next.
106.1-107.6:SILICATED LIMESTONE. Pinkish white calcite w 50-60% pyroxene mostly as lumpy masses (breccia?).
107.6-108.0:PYROXENE-HORNBLENDE-FELDSPAR GNEISS. @80°. Increasing hornblende content & decreasing pyroxene content. Crse-grd, lenticular.
108.0-110.1:QTZ DIORITE. White. Some hornblende gneiss bands.
110.1-113.8:HORNBLENDE-PLAGIOCLASE GNEISS. Crse-grd.
113.8-116.0:QTZ DIORITE. White, med-grd. Lenticular development of qtz.

END OF HOLE - 116 ft.

LIST OF SAMPLES

			%U ₃ O ₈	lbs U ₃ O ₈	%ThO ₂	lbs ThO ₂
#1034	27.5-28.3	0.8 ft.	0.012	0.24	0.05	1.00
#1035	30.9-31.6	0.7	0.049	0.98	0.12	2.40

Michael P. Eng.