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DUNRAINE MINES LTD.
WAWA AREA GOLD PROPERTY
McMURRAY TOWNSHIP
ONTARIO

JANUARY 5, 1981

HARPER CONSULTING SERVICES INC.

DUNRAINE MINES LTD.
WAWA AREA GOLD PROPERTIES
McMURRAY TOWNSHIP, ONTARIO

INTRODUCTION

Since my Report of September 26, 1979, there have been substantial changes in the position of Dunraine Mines Ltd. with respect to its Wawa venture and the purpose of this Report is to record those changes and to recommend a program for further development. The changes during the past thirteen months include substantial property acquisitions, a major exploration program, and the recovery of certain of the original mine plans which are, of course, very useful to the current program.

This Report is based on the following sources of information.

1. Those sources referred to in my Report of September 26, 1979 as well as similar reports and records pertaining to the Darwin (Grace) and Van Sickle (S.B. Smith) properties. All of these reports are now in the public domain.
2. Certain underground and surface plans of the Parkhill, Darwin, and Van Sickle properties.
3. Since the Spring of 1980 I have planned and executed a substantial exploration program which has been concentrated on

the Parkhill property but which has been and is expanding onto the Darwin and Van Sickle properties. Work done includes geological mapping, geophysical surveying, and diamond drilling. The program has required my presence on the property at regular intervals and while there I have mapped geology and logged diamond drill core.

4. (Discussions have been held with Richard E. Barrett, P.Eng., professor emeritus in mining, University of Toronto, and a former Mine Manager of the Parkhill Mine; Russell D. Caylor, P.Eng., former Mine Manager at the Parkhill, Darwin, Van Sickle, and Minto mines; and with D.W. Sutherland, Geologist, who developed the Surluga Mine in the 1960's.

PROPERTY AND LOCATION

The combined property consists of three claim groups traditionally known as the Parkhill, the Darwin or Grace, and the Van Sickle or S.B. Smith mines.

1. PARKHILL MINF (16 claims)

(a) Patented mining and surface rights (15 claims)

Y461 - 463	- 3
SSM 3109, 3124	- 2
SSM 3301	- 1
SSM 3470, 3471, 3493	- 3
SSM 7389	- 1
SSM 886	- 1
SSM 2401 - 2403	- 3
SSM 3491	- 1

- (b) Patented Surface Rights only.
Y 308 - mining rights held by claim
SSM 32118, Van Sickle mine.
- (c) Staked Claim - mining rights only
SSM 542856
- (d) Staked Fractional Claim - under dispute
SSM 430236

The total claim area approximates 440 acres. Claim
SSM 542856 is in the process of being brought to Lease.

2. DARWIN (GRACE) MINE (56 claims)

These claims are not all contiguous. The larger North
Group adjoins the Parkhill and Van Sickle group while the
South Group is separated from the main body of claims.

- (a) North Group.
 - (i) Patented Mining and Surface Rights (3 claims)
 - DJ 7
 - DJ 8
 - R 738 (M253)
 - (ii) Patented Mining Rights only (45 claims)
 - SSM 138 to 141 - 4
 - SSM 176, 177 - 2
 - SSM 182, 183 - 2
 - SSM 191 - 1
 - SSM 194, 195 - 2
 - SSM 201 - 1
 - SSM 212 - 1
 - SSM 224 - 250 - 27
 - SSM 252 - 1
 - SSM 258, 259 - 2
 - SSM 261, 262 - 2

- (b) South Group (8 claims)
 - Patented Mining and Surface Rights
 - SSM 178 - 1
 - SSM 218 - 223 - 6
 - SSM 257 - 1

The Darwin Group consists of 56 claims and has a total area
of approximately 1300 acres.

3. THE VAN SICKLE (S.B. SMITH) MINE (15 claims)

(a) Patented mining and surface rights (12 claims)

ES 170, 171	-	2
JD 16, 17	-	2
Y 330, 331	-	2
SSM 60 (M301)	-	1
SSM 3565, 3566	-	2
SSM 3047	-	1
SSM 3136	-	1
SSM 58 (J.D.1)	-	1

(b) Leased Mining Claim including Surface Rights (1 claim)

SSM 76721

(c) Staked Mining claims (2 claims)

SSM 407822
SSM 321118

The surface rights to staked claim SSM 321118 are held under patent as Y308 - a part of the Parkhill group. The total number of claims in the Van Sickle group is 15 and the total area approximates 360 acres. Staked claims SSM 407822 and SSM 321118 are in the process of being brought to Lease.

Dunraine Mines Ltd. holds a total of 87 mining claims plus disputed interests having a total area of about 2100 acres. The property comprises two groups - the larger having 79 claims and the smaller, 8 claims.

The claims are located in the southwest quarter of McMurray Township, Sault Ste. Marie Mining Division, Ontario. All claims are either patented, leased or are in the process of being brought to lease. Claim titles were not searched but they are recorded on Map M 1547, McMurray Township Claim Map.

ACCESS AND FACILITIES

Access to the property is via the Surluga Road from the Town of Wawa, a distance of about 5 miles. This road is snow-ploughed only as far as the Surluga Mine, some $2\frac{1}{2}$ miles from the Parkhill Mine. Access roads lead off from the Surluga Road to the shafts at the Parkhill, Darwin, and Van Sickle mine sites.

Electric power suitable for a mining plant is available at the "Minto Tap" located one mile northwest of the Parkhill shaft.

During 1980 a picket line grid system was established on the Parkhill and Van Sickle properties. This well marked grid is used for control of diamond drilling, geological mapping, etc.

The 12 x 12 cement base house of the old Parkhill water tower has been rejuvenated for use as a core shack.

Power line rights-of-way exist to both the Parkhill and Darwin shaft sites.

HISTORY AND DEVELOPMENT

PARKHILL MINE PROPERTY

The Parkhill Mine produced gold from August 1932 to January 1938. During this time some 125,192 tons were produced having a total value at \$35 gold of \$1,885,941. The recovered grade averaged 0.43 ounces per ton. Daily production averaged from 35 to 40 tons.

Professional Engineers W. T. May and W. A. Hesse give different but related reasons for the mine closure, although both agree that there must be substantial amounts of additional ore within easy reach of the existing mine workings. Engineer May believes that management failed to credit the importance of the geological environment of the ore shoots and consequently followed barren shear zones. He describes the ore environment in detail and outlines how to search for repetitions.

Engineer Hesse holds that the continuous shortage of development capital prohibited follow-up "ore indications" located in drifting. He strongly advocates lateral underground drilling.

Drill logs and assay results are available for some 13,324 linear feet of underground drilling. None of the mine plans are available except a 40 scale composite level and stope plan.

The Parkhill Mine was developed by a 2-compartment shaft to the sixth level and from there to the bottom or fourteenth level by a 3-compartment shaft. From surface to the 6th level the shaft followed the vein and therefore is not straight. R. E. Barrett who was Mine Manager when the shaft was deepened below the 6th level, sank on a straight line at a dip of 42 degrees.

The shaft has an incline depth of 1,877 feet and a vertical depth of 1,244 feet. The mine is developed by some 30,000 feet of drifting, 4,000 feet of cross cutting and 5,000 feet of raising.

The Mariposa Shaft, 208 feet deep, lies some 1,800 feet south and slightly west of the Parkhill Shaft. No data concerning these workings are available.

2. DARWIN (GRACE) MINE PROPERTY

The Darwin (Grace) mine has produced 15,191 ounces of gold and 1,363 ounces of silver from 45,528 tons milled for a recovered grade of 0.33 ounces of gold per ton.

The mine has been developed by two shafts. The original Grace shaft was a 2-compartment shaft inclined at 67 degrees and sunk to a depth of 900 feet. The new shaft is a vertical 3-compartment shaft sunk to the 830 foot level with a winze to the 900 foot level.

Both shafts have concrete caps. A 65 foot steel head-frame stands over the new shaft although the stiff legs and some structural members have been removed. Over 13,000 feet of lateral work has been done from both shaft openings. A composite survey plan of the mine has been recovered but no assay, geological, or drill data are known to exist.

3. VAN SICKLE (S.B. SMITH) MINE PROPERTY

The Van Sickle or S.B. Smith mine has produced 1,536 ounces of gold and 75 ounces of silver from 9,228 tons milled for a recovered grade of 0.166 ounces of gold per ton.

The mine is developed by a 2-compartment shaft sunk at 45 degrees to an incline depth of 289 feet, with levels at the 119 and 261 foot horizons.

A survey plan of the mine workings has been recovered.

4. DUNRAINE MINES LTD. - 1980 PROGRAM

The 1980 exploration program was exceedingly diverse in nature and consisted of the following aspects.

- a. Property acquisition including the Darwin and Van Sickle properties and some minor claim staking.
- b. Completion and filing of all assessment work and land survey requirements to bring all claims to lease.
- c. A continuing search for mine records in both public and private files.
- d. Line cutting, geological mapping, and geophysical surveying.
- e. Sampling of the Parkhill tailings dump.
- f. Surface diamond drilling.
- g. Clearing of powerline right-of-way.

The line cutting consisted of a 400 foot grid system which covered all of the Parkhill claims, most of the Van Sickle claims, and spilled over onto the Darwin property. The geological mapping and geophysical surveying was confined mostly to the Parkhill property. In the vicinity of the Parkhill and Van Sickle mine shafts line cutting and mapping was done on a 100 foot grid.

Altogether 38 drill holes totalling 11,107 linear feet of BQ and AXT size core were drilled. Of these 28 holes totalling 8,475 feet were drilled on the Parkhill-Van Sickle Vein System. The remaining 10 holes totalling 2,632 feet were drilled for assessment purposes and on secondary exploration targets such

as VLF anomalies. The geophysical anomalies proved barren of gold.

No exploration work of consequence was done on the Darwin property.

At the present time the electric powerline extending southward from the "Minto Tap" is being cleared to both the Parkhill and Darwin mine sites.

GENERAL GEOLOGY

The general geology of McMurray Township has not been mapped in detail. Preliminary map P828 is primarily a compilation of data collated during the 1930's and, in the writer's experience, is not very reliable. At the present time R.P. Sage of the Ontario Ministry of Natural Resources is upgrading the recorded geology. Additional, more detailed mapping, would be most helpful for mineral exploration.

Since most of the 1980 program was confined to the Parkhill-Van Sickle mine areas, the rocks in this area are the best known. There is much confusion and error in the names assigned during the 1930's to the very diverse suite of rocks occurring in this vicinity. For example, crystal tuffs were frequently called diorites and porphyrites and conglomerates were called agglomerates. At many of the mines, including the Parkhill, mining operations proceeded for several years at a time without the aid of a staff geologist. Rock types located

and recognized during the past season include greenstones, blue quartz granodiorite, tuffs, agglomerates, porphyry?, conglomerates, greywacke, and diabase. The stratigraphic sequence among the volcanic and sediments is unresolved, however, one formation, a massive pale green volcanic ash, may prove usable as a horizon marker.

Fold patterns and the intensity of folding have not been deciphered. It would appear that the volcanic and sedimentary members were deposited on a highly irregular surface and that initial dips probably approached a maximum. Fold patterns are important because of their relationship to shear stresses and strains.

Shears and shear zones may be very important in the mine area for in the past they have been directly related to the known occurrence of gold orebodies. Broadly speaking, there are three directions of shearing and one of cross fracturing.

1. The Jubilee and Darwin Shears strike slightly east of north and dip rather gently to the east and south. The largest gold orebodies mined in the area are intimately associated with the Jubilee Shear. The Darwin Shear may be the southern and offset extension of the Jubilee Shear. It has never been explored and nothing of note is known about it.
2. All observers have noted shearing effects associated with the Parkhill and Darwin gold veins which strike

about N60E and dip to the south. Based on an examination of drill cores, it is the writer's opinion that this shearing is very weak and discontinuous.

3. Strong shearing and faulting along diabase dikes which strike N30W and dip vertically may offset the Jubilee Shear and the Parkhill N60E gold veins. If so, then the west side has an apparent horizontal displacement of about 2,500 feet to the south.
4. A cross fracturing which seems to parallel the N30W diabase shearing has an eastward dip of about 40 degrees. Bull quartz veins, sometimes carrying visible gold commonly occur within this fracturing.

During the 1980 season the Parkhill property was mapped on a scale of 400 feet to the inch. This mapping eliminated much of the confusion and error introduced during the 1930's and, if extended, may provide useful data on possible offsetting along the diabase shearing, cross faults, etc. However, it lacks sufficient stratigraphic and structural detail to define the environment of the ore shoots. In the vicinity of the veins it may require detailed surface and underground mapping coupled with diamond drill hole data to define the environment of the ore shoots.

ECONOMIC GEOLOGY

The largest orebodies mined in the Wawa gold camp occurred on the Minto property in the Jubilee Shear, - a strong shearing which strikes N20E and dips from 35 to 50 degrees east. The shear is host to a "composite" vein system wherein gold veins were found within the shear zone which reaches widths up to 200 feet. Stoping widths frequently exceeded 20 feet.

The Jubilee Shear may be offset by the faulting associated with the large N30W striking diabase dike against which the Parkhill E-W vein system seems to terminate. Thus it is quite possible that the southward extension of the Jubilee Shear is actually the Darwin Shear which is located some 2,000 feet west of the new Darwin Shaft. Continuing the thought, it follows then that the down dip extension of the Jubilee-Darwin Shear passes under the new Darwin Shaft from 400 to 1,400 feet below the sump. So far as is known the Darwin Shear has never been drill tested and therefore is a first class diamond drill exploration target. The Darwin Shear has a known minimum length of over 4,000 feet.

The Parkhill E-W vein system though very narrow was consistently the richest ore in the camp. The veins strike N60E and dip about 40 degrees to the south. The "east-west" vein on the Darwin property has a similar strike and dip. As stated above, the Parkhill E-W vein system gives every indication of terminating against a northwest striking diabase dike with which faulting is associated. Exploration west of the dike has been

minimal but some diamond drilling has been done on surface, and the 4th, 6th, and 10th levels. No ore was found. If one applies the same apparent displacement to the Parkhill E-W vein system as to the Jubilee-Darwin Shear, then the Parkhill vein system west of the diabase is displaced to the south and lies some 2,800 feet east of the new Darwin Shaft and roughly on strike of the Darwin E-W vein. The Darwin E-W vein does not reach surface but apexes just above the 6th level.

The Darwin workings extend some 700 feet east of the new Darwin Shaft and two ore shoots have been found along the Darwin E-W vein. There are three ore shoots on the Parkhill E-W vein system. Therefore there may be a third ore shoot on the Darwin E-W vein and it probably lies to the east of the mine workings. The on strike distance between the eastern limit of the Darwin mine workings and the diabase dike-fault which appear to displace the Parkhill vein system is approximately 2,000 feet. This strike length warrants exploration, first by detailed mapping and second by diamond drilling, always bearing in mind that the Darwin E-W vein did not reach the present land surface.

North-south veins are common throughout the camp. The Minto Vein strikes N20W and dips 40 degrees east. The Grace Vein strikes N30W and dips 70 degrees east. Both of these veins produced significant amounts of ore. The Parkhill N-S vein strikes N20W and dips 45 degrees east. It has been developed on the 6th, 7th, 8th, and 9th levels for a total length of about 1,800 feet. One short section was mined. There are numerous

other N-S veins in the camp.

Of the three vein groups (Jubilee Shear type, Parkhill E-W type, and N-W type) described above, the writer has had no first hand experience with the Jubilee-Darwin Shear type, has observed several drill core intersections of the Parkhill E-W vein type, and has seen the N-S vein type on surface exposures and in drill cores. The N-S veins are typical glassy bull quartz veins filling cross fracture structures. They are persistent in strike and dip and their width seldom exceeds four feet. The Parkhill and Darwin E-W veins are remarkably different in character and mode of occurrence. From the ore search viewpoint, it is necessary to examine the E-W veins more closely.

The Parkhill E-W veins consist primarily of quartz having a peculiar sugar-grain texture whose size is coarse and rounded. R.E. Barrett has described the ore bearing quartz veins as looking like a "sandstone" or "quartzite". Approximately 80% of the gold is "free milling" and some very coarse aggregates were found. Most of the coarse gold occurred on the west side of the stopes, that is, on the hanging wall of the rake. The ore zones occurred as bodies whose vertical extent was frequently more than five times their horizontal length. The Parkhill stope plans clearly show that when viewed in the plane of the vein that the individual ore shoots curve and wander like a stream channel. Furthermore, in several places in the mine, a well defined stope will have a second stope, overlapping but slightly offset, located stratigraphically a few feet above or below the main stope.

There are other features of the Parkhill E-W veins that give one reason to pause and think. The host rock is commonly a felspar crystal tuff having a dark, fine grained matrix. The actual quartz vein itself is frequently encased within a 2 or 3 foot thickness of a fine grained, commonly biotite rich rock which carries sulphides and often, some gold. The rock has the appearance of a greywacke. The rock is moderately schistose, but when seen in drill core, it is in no way strongly or even weakly sheared. When pursuing the hydrothermal theory of vein emplacement, the general idea is that shearing stresses and movement create the openings into which the quartz flowed, while later movement granulated the quartz and allowed the gold to enter. Is it not possible that since post gold vein shearing and fracturing can be proven that the slight shearing associated with the gold veins was localized about the gold veins because they were existing zones of weakness? During the past summer's drill program it was common practise to drill two holes, one at an angle and the other vertical from the same drill site. On several occasions one of the holes would intersect a gold bearing quartz vein with its associated weak schistosity while the other hole, located perhaps 50 to 80 feet away, would intersect no sign of either a vein or shearing. Shearing along the Parkhill vein system is certainly not a strong, through-going feature.

During the past summer's drill program several hundred drill core samples were assayed for gold. Veins composed of

the typical sugar textured quartz invariably carried gold while all other quartz and quartz carbonate veins (of which there are many of pre and post ore age) invariably ran NIL - none carried gold. It seems strange that if the gold is of hydrothermal origin, that almost all of it is confined to one type of vein.

To the writer, the evidence available at the present time indicates that the genesis of the Parkhill E-W vein system could be either by hydrothermal solutions introduced along shearing, or sedimentary in the sense of a fossilized placer deposit. A final choice or even a strong preference for either mode of genesis cannot and should not be made at present. It is far more important to accept that both possibilities are real for each genetic mode has its own pattern for controlling exploration in the walls and along the rakes of the known ore shoots. Engineers May, Hesse, and Gledhill all agree that there is more ore to be found in the walls of the ore shoots within the mine workings and all comment on the lack of diamond drill testing of the walls and recommend that it be done. For the proof of the correctness of their viewpoint one can point to the fact that the 1980 surface drill program found gold bearing veins within the mine workings. An underground drill program of short holes adjacent to known stopes has an excellent chance of locating substantial amounts of gold bearing material especially if the program is planned with a view to searching for the structural relationship peculiar to each genetic mode.

1980 DRILL PROGRAM

Between the Van Sickle shaft and the west limit of the Parkhill Vein System, 15 drill holes intersected 21 occurrences of gold bearing quartz of the peculiar, granulated sugary textured type. Six of the holes had two intersections, including one hole that had two intersections containing visible gold. Visible gold was encountered in four holes thus defining three locations within the Parkhill mine workings which require underground examination for accurate appraisal. Most of the intersections were well below ore grade but it was the mine experience that any encounter in ore type quartz required follow-up exploration. The best intersection averaged 1.31 ounces of gold over 2.9 feet of core. All visible gold intersections were subjected to screen analysis and metallic assay methods. From these assay results it appears that multiple assays of high grade sections will provide reliable assay results. Similar multiple assays of low grade ore type quartz produced results varying as much as 600 percent. Almost all of the above intersections were encountered above the Parkhill 3rd Level. Because of the mine workings, most of the vein intersections are erratically spaced. This, plus the low number of intersections precludes any estimate of ore reserves or average grades.

PARKHILL TAILINGS

The Parkhill tailings are located on the south side of Trout Creek about 600 feet south of the shaft collar. The tailings pile is reasonably compact, a scant six feet in thickness, and is accessible by car throughout most of its area.

A systematic sampling of the tailings was begun during 1980 and altogether some 235 samples were analyzed for gold. Indicated grade of the tailings is slightly above 0.025 ounces of gold per ton. Most of the samples fell within the range of 0.015 and 0.035 ounces with very few assays of 0.005 and 0.10. Consequently the grade of 0.025 was considered reliable.

The tailings were sampled at 60 foot intervals on lines 50 and 100 feet apart. Samples were taken by auguring post holes six inches in diameter and taking a substantial portion of the recovered tailings at one foot and two foot intervals. In most cases, the bottom layer of the tailings could not be sampled because it lay beneath the water table and the augur holes began to cave as soon as the water table was reached. However, there is a small natural dam on Trout Creek which can easily be blasted out and thus lower the water table in the general tailings area.

The average tailing sample weighed in excess of two lbs. and all of the rejects from these samples have been retained in plastic bags for mill test purposes. It is recommended that the tailing sample rejects be mill tested under the direction of a Consulting Metallurgical Engineer as a first step in determining if the Parkhill tailings can be re-processed economically.

DEEP-SEATED EXPLORATION BETS

Over the years since the Parkhill mine was shut down the mine record has been reported on by numerous geologists and engineers many of whom had a first hand knowledge of the deeper mine levels. The reports and letters of these men are in the public record and the following are gleaned from those reports.

Ore grade material persists to the partially developed, lowest level (14th) of the Parkhill mine where three small ore shoots are reported. The three ore shoots have a combined length of 135 feet and average 0.44 ounces of gold across three feet. Thus there is every reason to believe that the Parkhill Vein System persists to greater depths.

The 12th and 13th levels were very lean with respect to ore. Some reports indicate that the ore was "faulted out" but details of the fault are unknown. T. L. Gledhill reports that two flat holes drilled north from the 12th level cut ore which was never opened up. Again, only the bald statement exists, - there are no records.

Between the 4th and 7th levels mine development east of the shaft was very uneven although very good ore was found east of the shaft on several levels above and below the 4th to 7th.

In a letter dated January 21st, 1974, William T. May, P.Eng. states "From my report in 1944, it is easily seen that the Parkhill shaft was sunk on a shear zone quite unrelated to the ore bearing lenses which were in subsidiary shears. When one realizes this situation and the structure of the geology as

I did when I was managing this property, it should be a fairly simple problem to search for the ore shoots in the right places and block out sufficient ore to warrant re-opening the property.

Some very large stopes were developed east of the shaft on the 9th, 10th, 11th, and 12th levels. East drifts lying above the 9th level did not extend far enough east to properly explore the upper extensions of the 9th level stopes. By the 7th level the bulk of the ore would pass onto the Van Sickle property which was not under Parkhill control at that time. Projecting the deep-seated stopes up rake links them to the stopes mined on the Van Sickle orebodies which were mined in 1935. Perhaps significantly, the good deep ore on the Parkhill was just starting to be opened up at the time the Van Sickle was shut down.

In a 1939 report T. L. Gledhill gave the following list.

Probable Unmined Ore - Parkhill Mine

	<u>Tons</u>
A. Section 4th level to surface at diabase dike	10,000
B. #1 Vein east of Shaft 2nd to 6th levels	15,000
C. Above & below 14th level - 100 feet each level	6,000
D. Potential ore Smith Section of Parkhill Vein	<u>60,000</u>
Total tonnage indicated above the presently developed levels	91,000.

Again, there are no supporting data for the above indicated tonnages, - only a report bearing the signature of T. L. Gledhill. In my judgement, based on all of the available information, discussions with two former mine managers, one of

whom was my mentor at the University of Toronto, and on the diamond drill results obtained last summer, I feel certain that an underground diamond drill program in the Parkhill mine will locate heretofore undetected bodies of gold mineralization of substantial grade. It is difficult to drill test these targets from surface because of the probability of drill holes entering old stopes and thus being lost. With increasing depth of exploration the cost of surface drilling rises prohibitively in relationship to the probability of a drill hole reaching a specific target area. The most practical method of locating ore in the Parkhill mine is by short hole underground diamond drilling.

SUMMARY OF EXPLORATION BETS

A. Surface

1. Darwin Shear Zone.

If, as seems most likely, the Darwin Shear is the offset extension of the Jubilee Shear then it is certainly the longest (over 4,000 feet) and most promising exploration target on the Dunraine property in that it is likely to be the host of very large bodies of gold mineralization.

2. Darwin East-West Veins to east of shaft.

If the Darwin Shear is the offset extension of the Jubilee Shear then the Darwin East-West Vein probably

has a similar relationship to the Parkhill East-West Vein and therefore the area east of the Darwin workings is a first class drill exploration bet.

3. Tailings.

Further sampling and mill testing of the Parkhill tailings are required to measure the economic viability of re-processing the tailings.

4. Outside Bets.

There are many unexplored quartz veins on the property. In due course, these should be appraised.

B. Parkhill - Van Sickle Underground Bets

1. Three developed areas in the Parkhill mine where the 1980 surface drill holes encountered visible gold.
2. Other areas where multiple drill hole intersections of ore type veins justify close interval underground drill exploration.

CONCLUSIONS AND RECOMMENDATIONS

The Dunraine McMurray Township gold property contains many very attractive exploration targets which warrant extensive exploration from both surface and underground. To test these targets and determine their economic viability requires an on-going exploration program which will require a year or more to

complete and the technical knowledge of several different engineering disciplines.

To carry out the necessary exploration and evaluation the Company will require the assistance of a Consulting Mining Engineer and a Consulting Metallurgist as well as an on-site Geologist and associated support personnel such as line cutters, core grabbers, draftsmen, etc. The following recommendations will further the exploration of the property and provide the necessary information to measure its economic viability.

A. SURFACE EXPLORATION

1. Line cutting and geological mapping on all the properties with detail maps from the Darwin Shaft eastward for 2,000 feet to the diabase dike-fault zone.
2. Preliminary diamond drill testing of the Darwin Shear for a minimum strike length of 4,000 feet and the drill testing of the eastward extension of the Darwin East-West Vein System for a strike length of 2,000 feet. Minimum drill footage 10,000 linear feet.
3. Lowering the water level in Trout Creek and continuing with sampling of the Parkhill tailings; test sampling certain rock dumps at the Parkhill Shaft.

B. SURFACE PREPARATIONS

1. Clearing shaft site and powerlines, access roads, etc.

C. UNDERGROUND EXPLORATION

1. The installation of a mining plant at the Parkhill mine, installing a new shaft collar and de-watering the mine. Short hole diamond drill testing in the vicinity of the known visible gold occurrences found in the 1980 surface drill program and following up the T. L. Gledhill opinions as to where potential ore reserves exist in the mine. Estimated drill footage requirement 8,000 linear feet.

D. OVERHEAD AND INFRASTRUCTURE

Office, travel, and accommodation for crew of four men plus facilities to accommodate supervisors and consultants, transportation, local and regional.

COST ESTIMATES

A. SURFACE EXPLORATION

1. Line Cutting & Geological Mapping.	\$ 25,000.	
2. Diamond Drilling - Darwin. 10,000 feet @ \$20./ft.	200,000.	
3. Tailings Sampling & Mill Testing.	20,000.	
4. Core logging, Sampling, Assaying.	15,000.	
	<u> </u>	\$260,000.

B. PLANT INSTALLATION & SERVICES

1. Powerline Clearing & Installation	\$175,000.	
2. Substation	50,000.	
3. Hoist, Installation & Housing	115,000.	
4. 2,500 cfm compressor	60,000.	
5. All Electrics: panels, controls, etc.	40,000.	
6. Shaft Collar, Timber sets, etc.	30,000.	
7. Covered Headframe	50,000.	
8. Construction Crew Camp & Accommodation	75,000.	
		<u>\$595,000.</u>

C. UNDERGROUND EXPLORATION - 12 MONTH PERIOD

1. De-watering, maintenance, rehabilitation and operating	\$125,000.	
2. Mine Services: signals, station pumps, electric cable, air & water lines, track	125,000.	
3. Mine Operating	100,000.	
4. Geological, Sampling, Assaying	75,000.	
5. Diamond Drilling 8,000 feet @ \$15./ft.	120,000.	
		<u>\$545,000.</u>

D. OVERHEAD & STAFF - 12 MONTH PERIOD

1. Field Office, equipment, & supplies	\$ 12,000.	
2. Purchase 4 x 4 truck	11,000.	
3. Transportation: local & regional	30,000.	
4. Staff payroll & accommodation - 4 men	125,000.	
5. Consulting & Supervision Geological engineering Mining engineering Metallurgical engineering	60,000.	
		<u>\$238,000.</u>
TOTAL	-	\$1,638,000.
Contingency Allowance 15% (approximately)		262,000.
GRAND TOTAL	-	<u>\$1,900,000.</u>

NOTE: The 12 month time period suggested in items C & D above is not rigorous. The addition of a second shift will greatly speed up the program.

PHASE II

Encouraging exploration results on the Darwin property would likely lead to a re-opening of the mine and further underground exploration and appraisal. Many of the facilities and services acquired for the Parkhill program would be available for the Darwin operation. Thus the cost of de-watering and re-habilitation of the Darwin mine would be less than the Parkhill, probably of the order of \$1,000,000.

This report is respectfully submitted.

Willowdale, Ontario
January 5, 1981

HARPER CONSULTING SERVICES INC.

H. G. Harper
H. G. Harper, P.Eng
President.



CERTIFICATE

I, HUGH GRANT HARPER, of Metropolitan Toronto, in the Province of Ontario, certify as follows with respect to my Report on the Wawa Area Gold Prospect of Dunraine Mines Ltd., dated January 5, 1981.

1. For over twenty years I have been practising as an independent economic geologist, carrying on business as

H. Grant Harper, P.Eng.,
314 Hendon Avenue,
Willowdale, Ontario.

2. I graduated from the University of Toronto with the degree of B.A.Sc., 1950 and M.A.Sc., 1951 and have been engaged in my profession since that time. I am a Member of the Ontario Association of Professional Engineers registered in the Mining Branch, and a designated Consulting Engineer.
3. I have no interest, nor do I expect to receive any, either direct or indirect, in either the property or securities of Dunraine Mines Ltd.
4. I have visited the Dunraine properties on numerous occasions since September 24, 1979 and have been actively engaged in the exploration program.

January 5, 1981
WILLOWDALE, Ontario

H. Grant Harper
H. Grant Harper, P.Eng.
Economic Geologist.



CONSENT

I, H. Grant Harper, P.Eng., of 314 Hendon Avenue, Willowdale, Ontario, author of the Report entitled Dunraine Mines Ltd., Wawa Area Gold Prospect, Ontario dated January 5, 1981 do hereby consent to the use of my report in any Prospectus or Filing Statement of Dunraine Mines Ltd. filed with any properly authorized Canadian securities exchange or commission.

Dated this 5th day of January, 1981

By: _____

H. Grant Harper
H. Grant Harper, P.Eng.



TIMMINS

WAWA

PROPERTY

CHAPLEAU

Lake Superior

SAULT STE.
MARIE

BLIND RIVER

ESPANOLA

Lake

Huron

DUNRAINE MINES LTD
KEY MAP



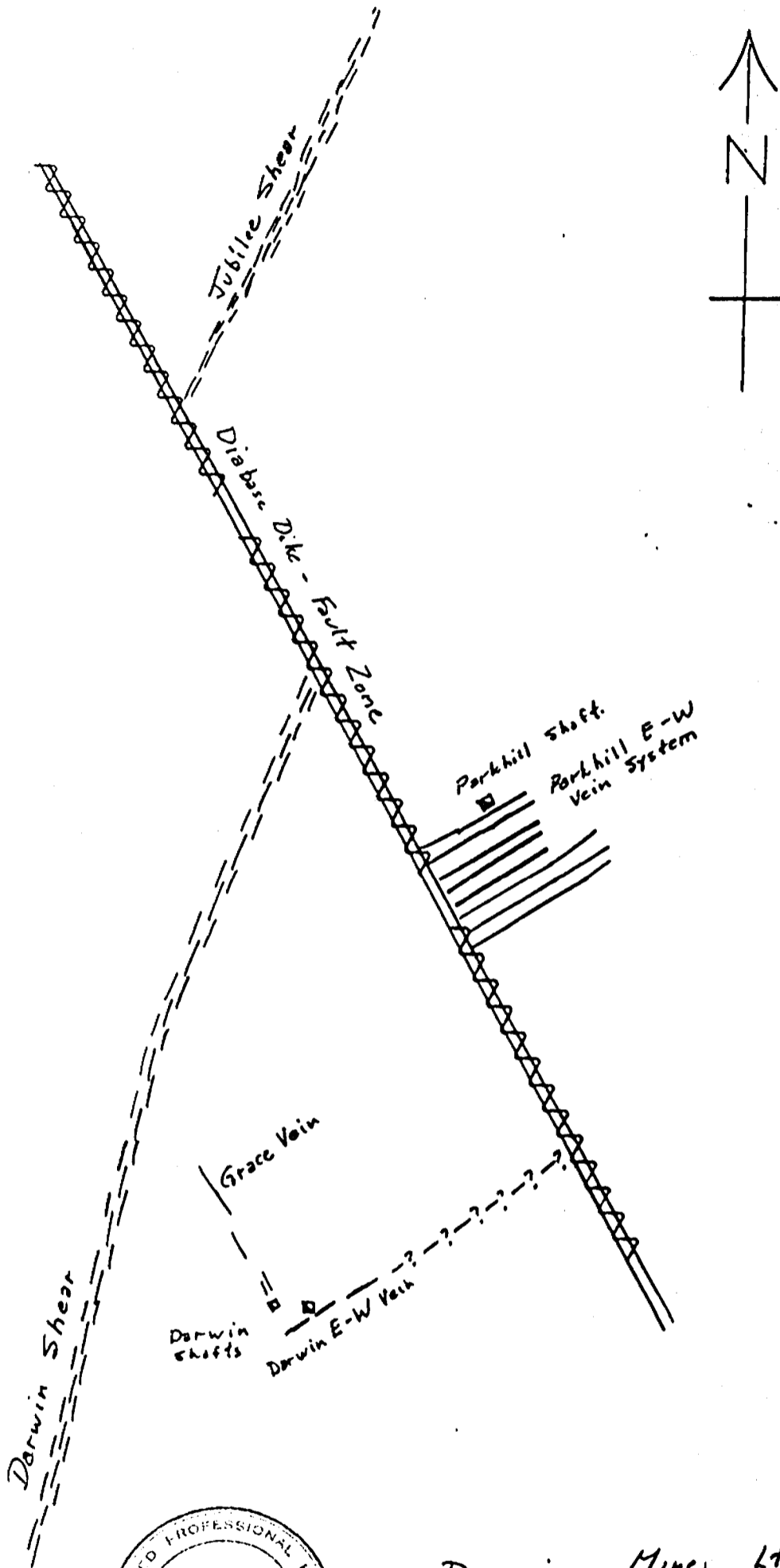
1 inch = 25 miles

1" = 25 mi

JAN 5 1981

H. C. Harper





JAN 5 1981

Dunrobin Mines Ltd.
 sketch Plan showing
 Inter-relationships between
 1. Diabase Dike - Fault Zone.
 2. Jubilee - Darwin Shear Zones.
 3. Darwin - Parkhill E-W Veins.

1" = 1320'
 1" = 1320'

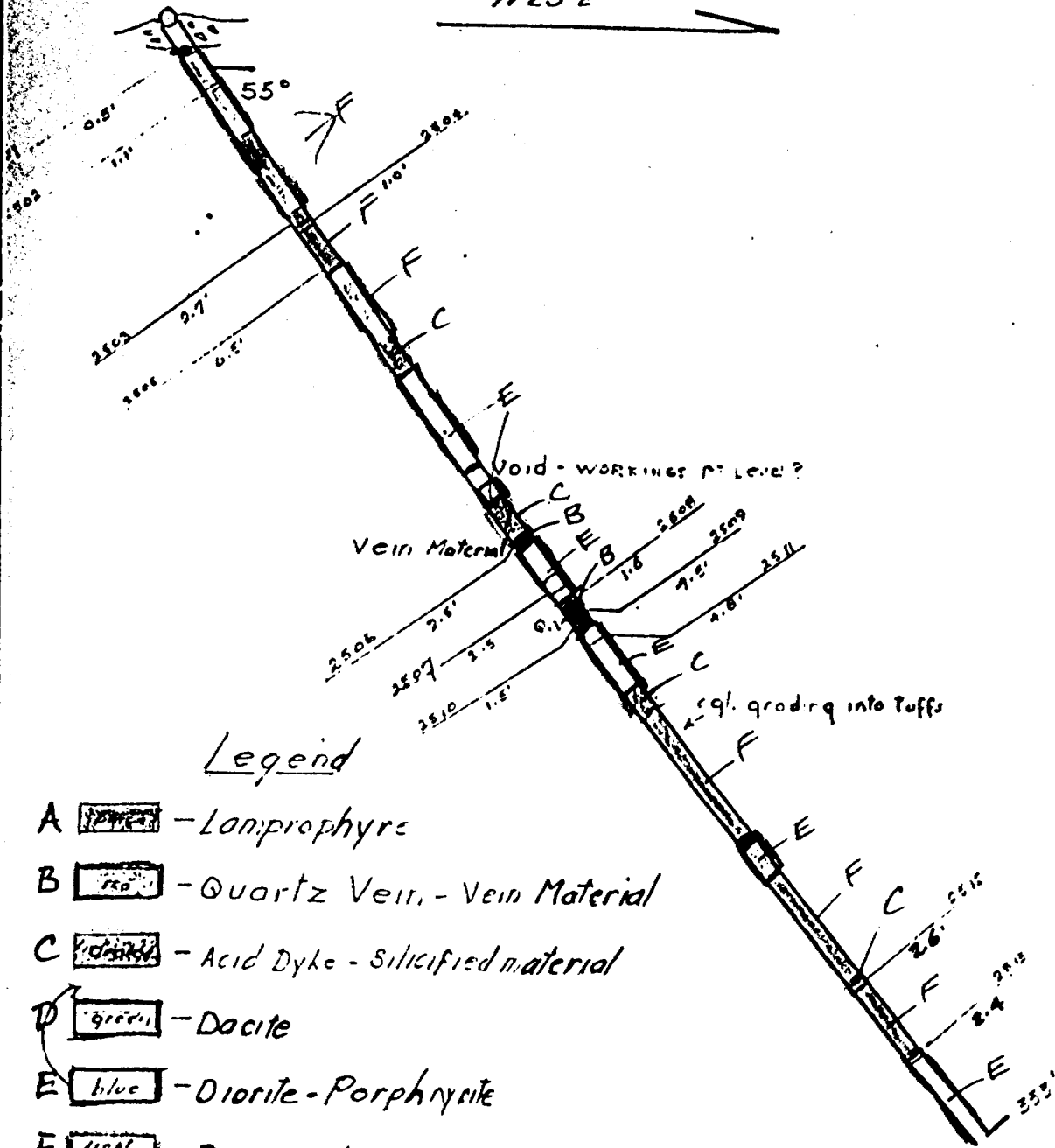
After ODM P. 828
 McMurray Twp.

H. G. Harper

NOTE : THIS FILE
CONTAINS DRILL LOGS
FOR HOLES PREVIOUSLY
SUBMITTED FOR ASSESS-
MENT CREDITS. THE LOGS
WERE NOT DELETED FOR
PURPOSES OF COMPLETENESS.
THESE HOLES ARE:

- 1) D 80 - 8 (McMURRAY 0014-B1)
- 2) D 80 - 26 (McMURRAY 0014-B1)
- 3) D 80 - 38 (McMURRAY 0014-C1)

N 23° E



Legend

- A - Lamprophyre
- B - Quartz Vein - Vein Material
- C - Acid Dyke - Silicified material
- D - Diorite
- E - Diorite - Porphyrite
- F - Fragmentes

Assays in ozs / ton

1" = 40'

DUNRAINE MINES LIMITED
 Parkhill Project
 Sect. D.D.H.-DBO-1
 1" = 40' St. Woody Aug. 5/30

DM 12 - 144 - C - 80

COMPANY: *Dunsmuir Mines Ltd.* PROPERTY: *Parkhill* HOLE NO. *2180-1*
 LATITUDE: *2185.5* BEARING: *N 23° E* DIP: *-55°* STARTED: *July 30th 1960* COMPLETED: *Aug 2/60* PAGE NO. *1*
 DEPARTURE: *1400 W* DRILLED BY: *H. Funk Diamond Drilling* DEPTH: *530'*
 ELEVATION: *9,967.0* LOCATION: *262' - 54'* LOGGED BY: *A.S.H.*

FOOTAGE	DESCRIPTION	SAMPLE FOOTAGES	SAMPLE NO.	WIDTH FT.	ASSAY DATA	
					OZS Au	OZS Ag
0.0-5.0	Casing					
5.0-8.7	Fragmental - in hostitic dacite back ground - highly altered - hi. carb - fine strag mult. py & spyl - on whole low min	5.0-5.5'	2501	0.5	.003	
8.7-55.5	Hostitic Dacite - highly altered - hi. carb - chl - some soaked frags up to 3" - fine carb strag - might be hostitic dacite					
17.4-18.5	highly brecciated & cut by silic. dykelets & qtz strag - low py	17.4-18.5	2502	1.1 1.1	nil	
33.5-44.0	Fragmental - very highly altered - silic. & carb. - some reddish anitic streaks					
44.0-56.9	Meta Dacite - or dacite - hi. carb. chl - cut by red silic. strag - schistosity & shear 60°					
56.9-59.6	brecciated & cut by irreg. qtz strag & silic. - low min	56.9-59.6	2503	2.7	.007	
59.6-71.2	Fragmental - buff - highly altered, hi. carb. - add perthite (perthite) dykelet - polymorphic					
59.6-60.6	highly altered silic. some anitic alteration	59.6-60.6	2504	1.0	ocl	
71.2-71.7	2" Q.V. with anitic strag	71.2-71.7	2505	0.5	chl	
71.8-73.9	Lamprophyre - no carb. sil. matrix - brucaceous - talcose slip at start (70°)					
73.9-74.7	Fragmental - as before					
74.7-93.9	Hostitic Dacite - or Pbw - low carb. - chl - cut by carb. strag slips at 70° & 45° to core					

COMPANY: _____ PROPERTY: _____ HOLE NO. D20
 LATITUDE: _____ BEARING: _____ DIP: _____ STARTED: _____ COMPLETED: _____ PAGE NO. 2
 DEPARTURE: _____ DRILLED BY: _____ DEPTH: _____
 ELEVATION: _____ LOCATION: _____ LOGGED BY: _____

FOOTAGE	DESCRIPTION	SAMPLE FOOTAGES	SAMPLE NO.	WIDTH FT.	ASSAY DATA				
					Av.	Ag.			
934-1040	Dyke - fine grained - silic - hard - light green - cut by fine carb. strgs - bx + carb. at start - 6" porphyrite dyke								
1040-122.1	Feldspar Porphyry - (Porphyrite) - small Qtz - fair carb - fairly massive - odd carb. strgs with irreg. apatite patches 116.0 - 119.6 - incl. or brittle ductile flow 117.3 - 2" barren Q.V. 129.5 - 130.6 - acid dyke - fine grained - light green - silic carb. - contact angle 45°								
122.1 - 136.1	Void - hit old workings - drift? 1st level								
136.1-141.1	Porphyrite - as above - becoming finer grained								
141.1-152.2	Acid Dyke - highly altered - fine grained - light greenish green - cut by many carb. strgs - some apatite or calc alteration - areas of bx - fractured 150.4 - 150.9 - rusty fractures - water course								
152.2-154.7	Vein Material - brecciated - cut by many white Qtz. strgs - some of these cut apatite strgs - 1.3' Q.V. with fine reddish silic - low fine py or fractures and in wall rock	152.2-154.7	2506	2.5'	.025				
154.7-170.7	Porphyrite - fine grained - T.P. - argill colored - might be Barrett's grey porphyry - parallelism of biotite ground 70° - cut by odd Qtz. carb. strgs - low mica	169.8-167.5	2507	2.5	.002				
170.7-172.2	170.7 - 172.2 - many fine Qtz. carb. strgs - low sp. in strgs.	170.7-172.2	2508	1.0	nil				

COMPANY: *Dunsmuir Miner* PROPERTY: *Park Hill* HOLE NO. *DES-1*
 LATITUDE: BEARING: DIP: STARTED: COMPLETED: PAGE NO. *3*
 DEPARTURE: DRILLED BY: DEPTH:
 ELEVATION: LOCATION: LOGGED BY:

FOOTAGE	DESCRIPTION	SAMPLE FOOTAGES	SAMPLE NO.	WIDTH FT.	GZS ASSAY DATA			
					Au.	Ag.		
172-176.7	Quartz Ven - white, vitreous - contact angle 15° - negligible min	172-176.7	2509	4.5	.002			
176.7-178.2	" " - as above but with odd fine strg with spg on whole low min contact with lens 15°-20°	176.7-178.2	2510	1.5'	nil			
178.2-179.0	Lamprophyre - as before contact with following QV - 10-15°							
179.0-183.0	Porphyrite - fine grained greenish - 0.2' quartz at start - rest br + cut by fine qtz strg with aphte							
183-185.0	Diorite - edges - scant min	178.2-183.0	2511	4.8	nil			
185.0-197.6	Dyke - very highly carb - part porphyrite cut by odd qtz strg negligible min - contact angles 30°-40°							
197.6-200.0	Porphyrite - as before							
200.0-242.3	Conglomerate - basic + acid pkts - most angular at start - grades into tufts - bedding at 60° to core - high carb - fairly massive - cut by fine carb strg at 30°-45° + 90° - odd chert porphyrite chert some hybrid naked phaser toward end							
242.3-243.2	Lamprophyre - as before							
243.2-245.1	Porphyrite - light							
245.1-247.9	Lamprophyre							
247.9-254.0	Diorite - light green grading into dark green - hi carb							
254.0-285.5	Tufts - cut by porphyrite dykelets + in places soaked by porphyrite							
285.5-288.1	Very highly altered massive fine breccia - dirty cream to light brown color - hi silification - sl. carb cut by few fine Q.T strg with some aphte - contact angles 50°-70° - negligible min	285.5-288.1	2512	2.6	nil			

COMPANY: <i>Duross Mine Ltd.</i>		PROPERTY: <i>Parkhill</i>		HOLE NO. <i>DEO-1</i>	
LATITUDE:	BEARING:	DIP:	STARTED:	COMPLETED:	PAGE NO. <i>4</i>
DEPARTURE:	DRILLED BY:			DEPTH:	
ELEVATION:	LOCATION:			LOGGED BY:	

FOOTAGE	DESCRIPTION	SAMPLE FOOTAGES	SAMPLE NO.	WIDTH FT.	ASSAY DATA	
					Gold (grain)	
288.1-308.2	Tuffs - highly altered - cut by some short porphyrite dykes - in places soaked by porphyrite - Seeding at 70" - to core -	285.5-288.1	2512	2.6'		
308.2-333.0	Porphyrite - with in places some remnants of tuffs - fairly massive - low carb					
308.9-311.3	breccia filled with calc. material & odd quartz pebbles - argillaceous mat.	308.9-311.3	2513	2.4	nil	
312.6-313.2	few barren qtz & some calc. string					

End of Hole

The vein intersected from 172.2-174.2 does not appear to be the Main Vein unless the Main Vein took a hell of a roll. However we did not hit anything else that we thought might be it, and might have gone through a lean area.

There are two lamprophyre dykes in the area where the Main Vein was expected (240') from 292.3' to 297.9'. Froberg mentions that slope 2214 was cut off by lamprophyre dykes.

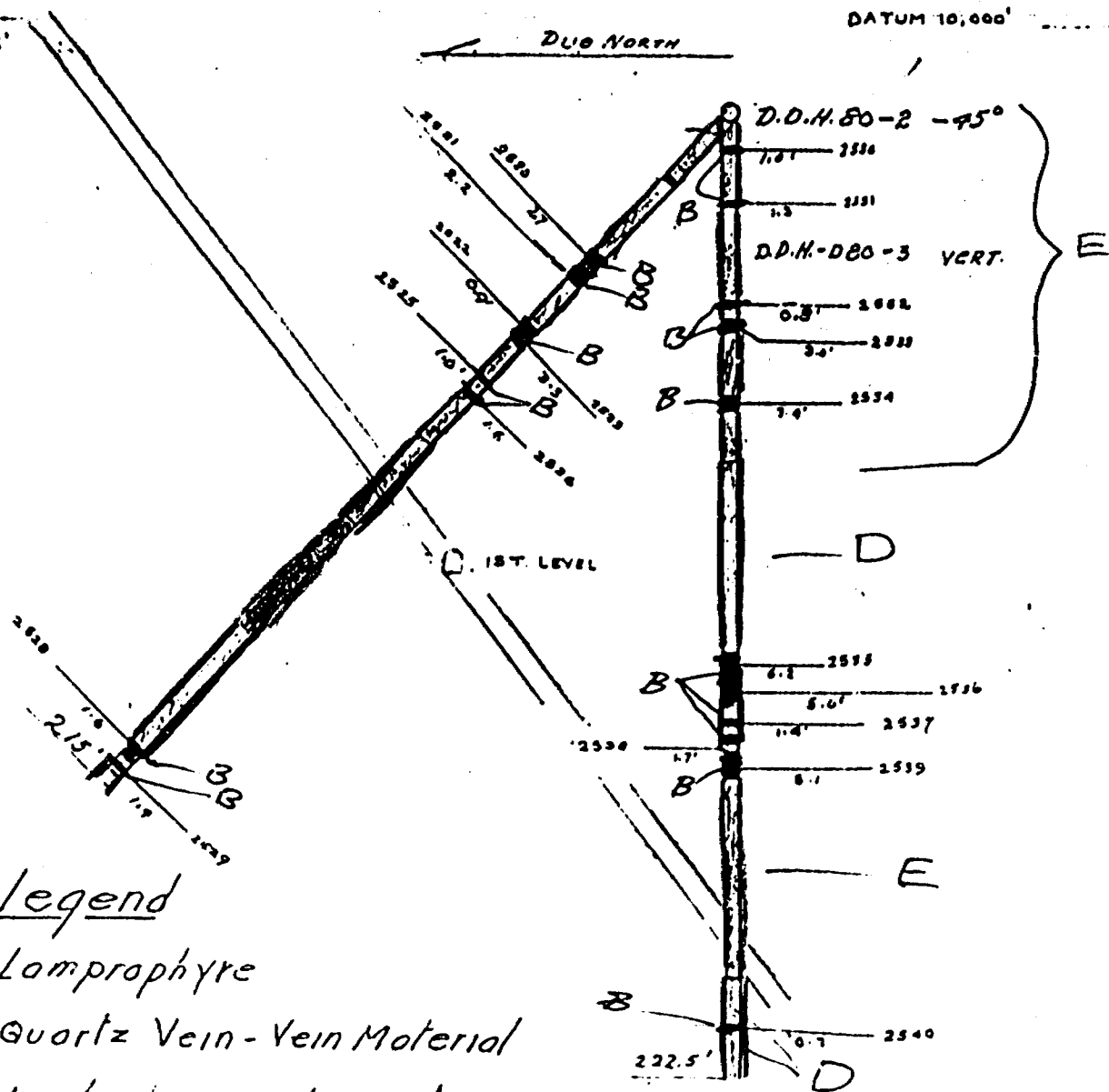
Froberg in his study of the Parkhill mine says - "In places where no quartz bodies are present the shear zones are indicated by insignificant looking streaks of carbonate or mica. This might be the case."

A.C. Moody
Note - The hole was plugged & cemented above the void.

9.493'

DUB NORTH

DATUM 10,000'



Legend

- A - Amphiphyre
- B - Quartz Vein-Vein Material
- C - Acid intrusive - Qtz Porphyry etc
- D - Diorite - Porphyryite
- E - Agglomerate - Tuffs - locally porphyritic

DUNRAINE MINES LTD.
 Sect. D.D.H.'S 80-2+3
 11" x 40" *Aug 13 '20*

1" = 40'

LATITUDE : 2 + 25S	BEARING: due N	DIP: -45°	STARTED: Aug. 5/80	COMPLETED: Aug. 7/80	Page 1
DEPARTURE: 1+45W	V.D.	H.D.	DRILLED BY: Turcotte (Markstay Drilling)		DEPTH: 203.5
ELEVATION: 9.9810	LOCATION:				LOGGED BY:

FOOTAGE	SAMPLE FOOTAGES	SAMPLE No.	WIDTH FT.	ASSAY DATA	
				Gold/ton	

0.0- 5.0	CASING				
5.0- 19.8	AGGLOMERATE, tuff, highly altered-hi carb. except where (?) by biotite diorite - looks like biotite dacite but minor frags - number of core frags.-also some qtz. feldspar porphyritized section and fine lamprophre strgs. fairly massive slips at 65°, 55°, 80° & 75° to core				
19.8- 20.9	QTZ. DIORITE- no carb - few fine carb. strgs.				
20.9- 45.5	AGGLOMERATE- Tuff - as above- more and mag qtz. carb strgs. some with aplite.				
45.5- 48.2	VEIN MATERIAL - many qtz. carb strgs. some with aplite soaked frags.	45.5-48.2	2520	2.7	nil
50.6- 73.1	AGGLOMERATE-Tuffs - highly altered carb - in places (?) (intrusives - ??????????????)				
	50.6-57.8 - Highly altered cut by narrow (?????????????) of carb qtz. & aplite (average ?) negligible min.	50.6-52.8	2521	2.2	.001
	69.5-73.7 numerous strgs with qz. carb & aplite some vein upto 3". - 69.5-70.4 Vein material 0.4' qtz. with aplite and (?) qtz. partly sugary-negligible min.	69.5-70.4	2522	0.9	nil
	70.4-73.7 - 50% qtz. carb. vein with aplite.	70.4-73.7	2523	3.3	.001
73.7-105.0	AGGLOMERATE- Tuffs soaked by biotite-diorite or biotite-dacite ground mass carb. fairly massive 76.8-77.1 Basic dyke - light green - large biotite pebbles(???????)				
	72.1-73.1-highly altered-silic & carb. with fine silic. strgs with aplite pebbles-fine tour. in qtz-low fine pyr.	82.1-83.1	2525	1.0	.001
	88.0-89.6 - silic. cut by qtz. strgs & a 3' (?) with (?????????) (50%) low fine py.	88.0-89.6	2526	1.6	.020
	99.5 - rusty shear over 1/2" at 70° to core				
105.0-130.6	BIOTITE DIORITE with some highly altered inclusions of seds fine grained -slight (sch) carb. fairly massive cut by somber carb. strgs. odd strg and aplite in places partly soaked by qtz. feldspar porphyry.				
130.6-166.5	QTZ. FELDSPAR-Porphyry with sects of fragmented grading into hybrid (?????) with biotite diorite 143.5 TUFFS AT 80° to core				
	157.3-158.3 Bx number of qtz. carb strgs (50%) scant min.				
166.5-203.4	BIOTITE DIORITE- as before 172.9-174.0 Bx fine & cut by qtz & aplite strgs. - 174.5-176.5 dun grey colour qtz highly altered-hi carb-scant min. 180.6-185.9 Qtz. feldspar porphyry & hybrid (?) with diorite	172.9-174.0	2528	1.1	.001
		194.5-195.4	2527	0.9	nil

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TO FOLLOW**

(194.5-Qtz. carb strg with pkty. pyr scant min.)

PROPERTY

LATITUDE :		BEARING:	DIP:	STARTED:	COMPLETED:	HOLE NO. D-80-2	
DEPARTURE:		V.D.	H.D.	DRILLED BY:		Page 2	
ELEVATION:		LOCATION:				DEPTH:	
FOOTAGE					SAMPLE FOOTAGES	SAMPLE No.	WIDTH FT.
							ASSAY DATA

203.4-205.0	TUFFS-highly altered - some blue veining in carb. areas (sometimes lamphyopre is bluish)	203.4-205.0	2528	1.6	
205.0-208.0	LAMPROPHYRE-There is a fine grained black lamp. with much biotite and anolivine lamp, with large flakes of biotite in green colour. This is the biotite variety of olivine(????)will be monitored when they occur.				
207.9-211.5	AGGLOMERATES-Tuffs highly altered with carb areas with blue veining.	207.9-209.3	2529	1.4	.001
211.5-215.0	BIOTITE DIORITE-highly altered - some soaked tuffs - cut by carb. biotite diorite ? strgs.				

END OF HOLE.

**DUPLICATE COPY
POOR QUALITY ORIGINAL
TO FOLLOW**

COMPANY: *Dominion* PROPERTY: *Perth* HOLE NO. *3257-2*
 LATITUDE: BEARING: DIP: STARTED: COMPLETED: PAGE NO. *2*
 DEPARTURE: DRILLED BY: DEPTH:
 ELEVATION: LOCATION: LOGGED BY:

FOOTAGE	DESCRIPTION	SAMPLE FOOTAGES	SAMPLE NO.	WIDTH FT.	ASSAY DATA				
					Gold/ton				
	<i>72.1-73.1 - breccia altered - siliceous with fine siliceous matrix fine sand matrix - low siliceous Fl. 6 - 9.6 - siliceous - 4.5 to 5.5 x 6.3' core with ch. in it (50%) low siliceous</i>								
	<i>73.1-83.1</i>	<i>2525</i>	<i>1.0</i>	<i>.001</i>					
	<i>83.1-89.0</i>	<i>2536</i>	<i>1.6</i>	<i>.020</i>					
	<i>99.5 - 100.5 - siliceous - 1.5' at 10' core</i>								
<i>105.0-126.6</i>	<i>Breccia matrix - with siliceous matrix fine sand - siliceous - 1.5' at 10' core cut in siliceous matrix - 1.5' at 10' core in siliceous matrix - 1.5' at 10' core beginning</i>								
<i>130.6-145.5</i>	<i>Qtz. Feilite matrix - 1.5' at 10' core 10' core - siliceous - 1.5' at 10' core 133.5 - 145.5 - siliceous - 1.5' at 10' core 145.5 - 150.5 - siliceous - 1.5' at 10' core 150.5 - 155.5 - siliceous - 1.5' at 10' core</i>								
<i>160.5-172.9</i>	<i>Breccia matrix - siliceous 172.9 - 174.0 - siliceous - 1.5' at 10' core and siliceous</i>								
	<i>172.9-174.0</i>	<i>2528</i>	<i>1.1</i>	<i>.001</i>					
	<i>174.5-176.5 - siliceous - 1.5' at 10' core altered - siliceous - 1.5' at 10' core</i>								
	<i>180.6-185.0 - Qtz. Feilite matrix + breccia matrix - siliceous</i>								
	<i>194.5 - Qtz. core - siliceous - 1.5' at 10' core siliceous</i>								
	<i>194.5-195.4</i>	<i>2527</i>	<i>0.9</i>	<i>nil</i>					

PROPERTY: *Deer Creek*
 HOLE NO. *280-2*
 PAGE NO. *5*
 BEARING: _____ DIP: _____
 STARTED: _____ COMPLETED: _____
 DRILLED BY: _____
 DEPTH: _____
 LOGGED BY: _____

FOOTAGE	DESCRIPTION	SAMPLE FOOTAGES	SAMPLE NO.	WIDTH FT.	ASSAY DATA			
					Gold	Ag	Cu	Fe
203.9-205.0	Tuffs - highly altered - some blue staining in carbonates							
205.0-208.0	<i>(some times brownish - is black)</i> Lamprophyre - There is a fine grained black band with much biotite & an obscure band with large flakes of biotite & green color. This is the biotite variety & always dense will be mentioned when they occur.	203.9-205.0	2528	1.6				
207.9-209.5	Agglomerate - Tuff - highly altered with calc. some with blue staining							
207.9-209.5		207.9-209.5	2529	1.7	.001			
211.5-215.0	Basaltic Dacite - highly altered - some carbonates with blue staining or " Quartz? - string End of hole							

LATITUDE : 2 + 25S	BEARING: Vert	DIP: Vert	STARTED: Aug. 7/80	COMPLETED: Aug. 9/80	
DEPARTURE: 1 + 45W	V.D.	H.D.	DRILLED BY: MARKSTAY DRILLING		DEPTH: 222.5
ELEVATION: 9.981.0	LOCATION:				LOGGED BY:
FOOTAGE		SAMPLE FOOTAGES	SAMPLE No.	WIDTH FT.	ASSAY DATA
					Gold/Ton

0.0 - 5.0	Casing				
5.0 - 80.0	AGGLOMERATES, Tuffs, some hybrid phases with and intrusives -hi carb.-in places silic & cut by qtz. carb. -strgs. with aplite-some bx. some low angle slips 5.0-10.0- number of rusty slips. 5.5-6.5 - Bx(brecciated)-filled with qtz.aplite and carb. low fine py. 19.0-31.0-highly altered-silic. some carb. strgs in places considerable aplite alteration-slip nearly parallel to core. 18.7-20.0 Considerable aplitic alteration & silic. 43.2-44.0 - Silic with qtz. carb aplite 60-70° to core 47.4-50.4 - Bx. cut by qtz carb strgs. silic with much aplitic alteration some low angle & few crust strgs. negligible min. 64.1-67.5 - Bx. very highly altered-silic cut by qtz. and carb strgs. much aplite alteration -negligible min. 67.5-80.0 Highly carb.bleached-pale green to grey-odd qtz. and aplite up to 2½' sections.	5.5-6.5	2530	1.0	nil
80.0 -123.5	PORPHYRITE-with white feldspars in (?????????????) places with tuff - no cuts-few carb strgs - fairly massive - 90.8-110.2 - altered dike ? hi carb.light grey contact with porphyrite - 44° to core.				
123.5 -131.7	TUFFS-highly altered-grading into porphyrite-much aplite alteration-few carb strngs - scant min.	125.5-131.7	2535	6.2	nil
131.7- 146.0	MAINLY PORPHYRITE-Bx and cut by many qtz. carb strgs with considerable aplitic alteration 131.7-136.7 sample 137.6-139.6-Lamprophyre / 139.6-140.6 Bx, highly altered-silic.aplite strgs with some carb. negligible min. 141.9-143.0 - Basic dyke- very high carb-lamprophre 144.3-146.0 - Bx-filled and cut by qtz.carb aplite carb.often (?????????????)negligible min.	131.7-136.7 139.2-140.6	2536 2537	5.0 1.4	nil nil
146.0- 148.7	DYKE ? Highly altered - hi carb, light grey fine grained	144.3-146.0	2538	1.7	.001
148.7- 153.8	VEIN MATERIAL-Bx. highly altered-silic(?????????????????) F.D.(???????)frags. negligible min.	148.7-153.8	2539	5.1	nil

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TO FOLLOW**

PROPERTY

LATITUDE :	BEARING :	DIP :	STARTED :	COMPLETED :	HOLE NO. D-80-3	
DEPARTURE :	V.D.	H.D.	DRILLED BY :		Page 2	
ELEVATION :	LOCATION :				DEPTH :	
					LOGGED BY :	
FOOTAGE			SAMPLE FOOTAGES	SAMPLE No.	WIDTH FT.	ASSAY DATA

153.8-200.5 TUFFS, very hi carb. dark to light green-some hybrid phases with porphyrite - good contact at 45°.

200.5-222.5 PORPHYRITE-first 0.6' very highly altered by qtz & aplite cut by carb strgs.

200.5-201.2 - sample

214.5-220.3 - in places bx. cut by low angle slips with qtz. carb & aplite.

200.5-201.2 2540 0.7 nil

END OF HOLE

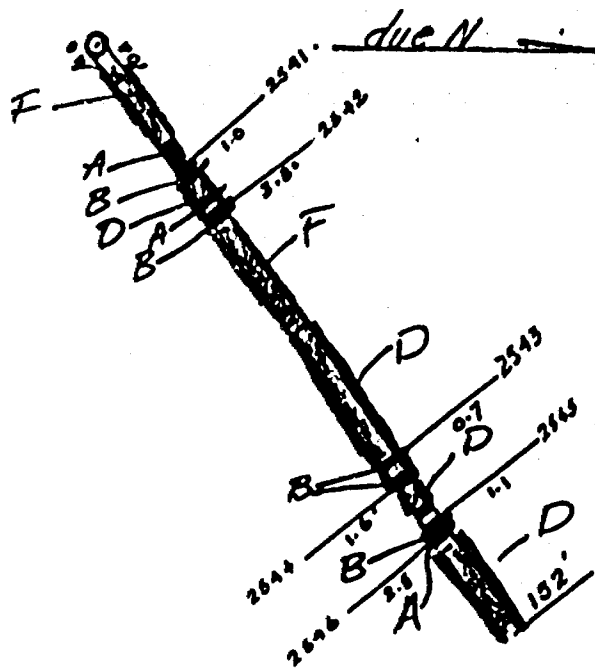
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TO FOLLOW**

COMPANY: *Dominion Mines Ltd.* PROPERTY: *Palmer* HOLE NO: *DE-5*
 LATITUDE: *2125.5* BEARING: *vert* DIP: *vert* STARTED: *Aug 7/60* COMPLETED: *Aug 9/60* PAGE NO. *1*
 DEPARTURE: *1 + 45W* DRILLED BY: *Mark Day Drilling* DEPTH: *2275*
 ELEVATION: *9,981.0* LOCATION: LOGGED BY: *[Signature]*







FOOTAGE	DESCRIPTION	SAMPLE FOOTAGES	SAMPLE NO.	WIDTH FT.	ASSAY DATA	
					64g Ann.	
5.0-5.0	Casing					
5.0-8.0	Agglomerates, Tuffe - some highly porous with some vitrification - bl. calc - in places - some calc. in places - 1/2" to 1" diam. - some to 1/4" diam. - some small 5.0-5.5 - some of 1/2" diam. 5.5-6.5 - some of 1/2" diam. 6.5-7.5 - some of 1/2" diam. 7.5-8.5 - some of 1/2" diam. 8.5-9.5 - some of 1/2" diam. 9.5-10.5 - some of 1/2" diam. 10.5-11.5 - some of 1/2" diam. 11.5-12.5 - some of 1/2" diam. 12.5-13.5 - some of 1/2" diam. 13.5-14.5 - some of 1/2" diam. 14.5-15.5 - some of 1/2" diam. 15.5-16.5 - some of 1/2" diam. 16.5-17.5 - some of 1/2" diam. 17.5-18.5 - some of 1/2" diam. 18.5-19.5 - some of 1/2" diam. 19.5-20.5 - some of 1/2" diam. 20.5-21.5 - some of 1/2" diam. 21.5-22.5 - some of 1/2" diam. 22.5-23.5 - some of 1/2" diam. 23.5-24.5 - some of 1/2" diam. 24.5-25.5 - some of 1/2" diam. 25.5-26.5 - some of 1/2" diam. 26.5-27.5 - some of 1/2" diam. 27.5-28.5 - some of 1/2" diam. 28.5-29.5 - some of 1/2" diam. 29.5-30.5 - some of 1/2" diam. 30.5-31.5 - some of 1/2" diam. 31.5-32.5 - some of 1/2" diam. 32.5-33.5 - some of 1/2" diam. 33.5-34.5 - some of 1/2" diam. 34.5-35.5 - some of 1/2" diam. 35.5-36.5 - some of 1/2" diam. 36.5-37.5 - some of 1/2" diam. 37.5-38.5 - some of 1/2" diam. 38.5-39.5 - some of 1/2" diam. 39.5-40.5 - some of 1/2" diam. 40.5-41.5 - some of 1/2" diam. 41.5-42.5 - some of 1/2" diam. 42.5-43.5 - some of 1/2" diam. 43.5-44.5 - some of 1/2" diam. 44.5-45.5 - some of 1/2" diam. 45.5-46.5 - some of 1/2" diam. 46.5-47.5 - some of 1/2" diam. 47.5-48.5 - some of 1/2" diam. 48.5-49.5 - some of 1/2" diam. 49.5-50.5 - some of 1/2" diam. 50.5-51.5 - some of 1/2" diam. 51.5-52.5 - some of 1/2" diam. 52.5-53.5 - some of 1/2" diam. 53.5-54.5 - some of 1/2" diam. 54.5-55.5 - some of 1/2" diam. 55.5-56.5 - some of 1/2" diam. 56.5-57.5 - some of 1/2" diam. 57.5-58.5 - some of 1/2" diam. 58.5-59.5 - some of 1/2" diam. 59.5-60.5 - some of 1/2" diam. 60.5-61.5 - some of 1/2" diam. 61.5-62.5 - some of 1/2" diam. 62.5-63.5 - some of 1/2" diam. 63.5-64.5 - some of 1/2" diam. 64.5-65.5 - some of 1/2" diam. 65.5-66.5 - some of 1/2" diam. 66.5-67.5 - some of 1/2" diam. 67.5-68.5 - some of 1/2" diam. 68.5-69.5 - some of 1/2" diam. 69.5-70.5 - some of 1/2" diam. 70.5-71.5 - some of 1/2" diam. 71.5-72.5 - some of 1/2" diam. 72.5-73.5 - some of 1/2" diam. 73.5-74.5 - some of 1/2" diam. 74.5-75.5 - some of 1/2" diam. 75.5-76.5 - some of 1/2" diam. 76.5-77.5 - some of 1/2" diam. 77.5-78.5 - some of 1/2" diam. 78.5-79.5 - some of 1/2" diam. 79.5-80.5 - some of 1/2" diam. 80.5-81.5 - some of 1/2" diam. 81.5-82.5 - some of 1/2" diam. 82.5-83.5 - some of 1/2" diam. 83.5-84.5 - some of 1/2" diam. 84.5-85.5 - some of 1/2" diam. 85.5-86.5 - some of 1/2" diam. 86.5-87.5 - some of 1/2" diam. 87.5-88.5 - some of 1/2" diam. 88.5-89.5 - some of 1/2" diam. 89.5-90.5 - some of 1/2" diam. 90.5-91.5 - some of 1/2" diam. 91.5-92.5 - some of 1/2" diam. 92.5-93.5 - some of 1/2" diam. 93.5-94.5 - some of 1/2" diam. 94.5-95.5 - some of 1/2" diam. 95.5-96.5 - some of 1/2" diam. 96.5-97.5 - some of 1/2" diam. 97.5-98.5 - some of 1/2" diam. 98.5-99.5 - some of 1/2" diam. 99.5-100.5 - some of 1/2" diam.					
		52-53	2531	10		nil
		54-55	2532	10		.001
		56-57	2533	10		nil
		58-59	2534	10		nil

PROPERTY: *Peak Hill*
 BEARING: _____ DIP: _____
 STARTED: _____ COMPLETED: _____
 DRILLED BY: _____
 HOLE NO. *180-3*
 PAGE NO. *2*
 DEPTH: _____
 LOGGED BY: _____

FOOTAGE	DESCRIPTION	SAMPLE FOOTAGES	SAMPLE NO.	WIDTH FT.	ASSAY DATA			
					Gold/ton			
<i>88.0-1255</i>	<i>Perthite - fine white quartz in calc. matrix - some pyrite - piece with tuff - in calc. matrix - some pyrite 98.6-1002 - about size 2 - in calc. matrix contact with perthite to 2' core</i>							
<i>125.5-1317</i>	<i>Tuff - highly altered - grading into perthite - in calc. matrix alteration - fine calc. matrix - some pyrite</i>	<i>125.5-1317</i>	<i>2535</i>	<i>6.2</i>	<i>nil</i>			
<i>131.7-146.0</i>	<i>Mundy Perthite - by calc. matrix - some pyrite considerable quartz in matrix</i>							
	<i>131.7-146.0 - same</i>	<i>131.7-146.0</i>	<i>2536</i>	<i>5.0</i>	<i>nil</i>			
	<i>141.1-139.6 - same</i>							
	<i>139.6-140.6 - by tuff - about size 2 - in calc. matrix stage with some calc. matrix - some pyrite</i>	<i>139.6-140.6</i>	<i>2537</i>	<i>1.4</i>	<i>nil</i>			
	<i>141.9-143.0 - Per. - some pyrite - some quartz</i>							
	<i>144.3-146.0 - by calc. matrix - some pyrite - calc. matrix - some pyrite - some quartz</i>	<i>144.3-146.0</i>	<i>2538</i>	<i>1.7</i>	<i>.001</i>			
<i>145.0-146.7</i>	<i>Disc? - highly altered - some pyrite - some quartz</i>							
<i>146.7-155.5</i>	<i>Perthite - by calc. matrix - some pyrite - some quartz FD matrix - some pyrite - some quartz</i>	<i>146.7-155.5</i>	<i>2539</i>	<i>5.1</i>	<i>nil</i>			
<i>153.5-200.5</i>	<i>Tuff - very fine - some calc. matrix - some pyrite piece with perthite - some calc. matrix</i>							
<i>200.5-220.5</i>	<i>Perthite - fine 0.6 very fine - some calc. matrix - calc. matrix - some pyrite - some quartz</i>							
	<i>200.5-201.2 - same</i>	<i>200.5-201.2</i>	<i>2540</i>	<i>0.7</i>	<i>nil</i>			
	<i>214.5-220.3 - same - some calc. matrix - some pyrite with calc. matrix</i>							



Legend

- A  - Lamprophyre
- B  - Quartz Vein-Vein Material
- C  - Acid intrusive - Qtz. Feldspar Porphyry etc
- D  - Diorite - Porphyrite
- E  - Basic dyke
- F  - Agglomerate - Tuffs

DUNRAINE MINES LIMITED
 Parkhill Project
 Sect. D.O.H-DBO-7
 1" = 40' *St. Kirby* Aug 12/30

1" = 40'

DUNRAINE MINES LTD.

PROPERTY PARKHILL

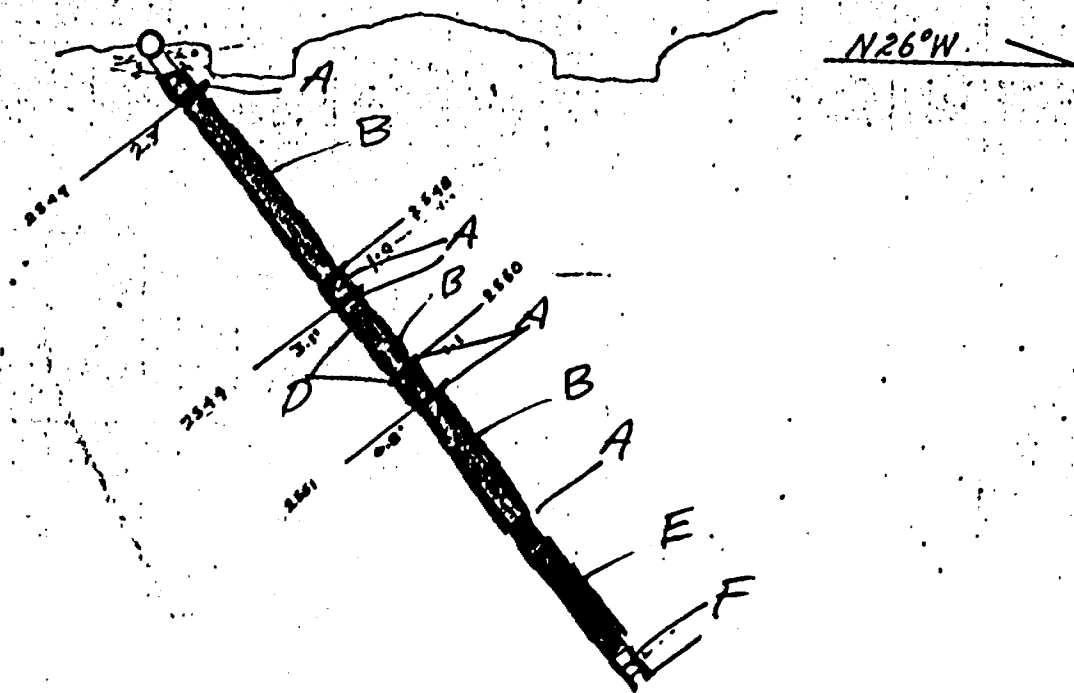
LATITUDE : 2 + 00S		BEARING: due N	DIP: 53°	STARTED: Aug. 9/80	COMPLETED: Aug. 11/80	HOLE NO. D-80-4
DEPARTURE: 2 + 00 W		V.D.	H.D.	DRILLED BY: MARKSTAY DRILLING		Page 1
ELEVATION: 9.986.0		LOCATION:				DEPTH: 152'
FOOTAGE				SAMPLE FOOTAGES	SAMPLE No.	WIDTH FT.
						ASSAY DATA
						GOLD/TON

0.0- 5.0	Casing					
5.0- 24.8	TUFFS-highly altered -med. to hi.carb cut by fine carb. strgs with few more altered sections with qtz. and aplite-bedding around 45°-slips at 80-45 & 15°.					
24.8- 30.7	BASIC DYKE- chlorite-fine grained-cut by few carb. strgs. low fine py-contact angle 80°.					
30.7- 31.7	VEIN MATERIAL-½ BX silicified-½ soaked to ffl-fair porphyrite. little py. odd speck cpy.	30.7-31.7	2541	1.0	nil	
31.7- 33.0	TUFFS, polymictic-soaked by porphyry-w.m.pyrrh.					
33.0- 39.9	DIORITE-chl.carb. fine grained - cut by carb. strgs.					
39.9- 40.9	PORPHYRY-highly altered-(?????????)developed-hi carb. some hybrid phases with polymictic tuffs.					
40.9- 41.2	DIORITE ? - fine grained-chl. grades into more and porphyry - soaked tuffs - cut by qtz. carb. strgs.					
41.2- 45.0	VEIN MATERIAL-Bx (????)by qtz. carb & considerable aplite-scant min.	41.2-45.0	2542	3.8	nil	
45.0- 73.0	TUFFS-highly altered-hi carb-light grey-audic-cut by qtz.carb strgs with aplitic-negligible min. low py. 50.8051.7-cut by low angle slip bx. aplite & qtz. some hybrid phases with porphyry & biotite diorite.					
73.0-106.2	BIOTITE DIORITE-Light grey-little carb, cut by fine carb strgs,					
106.2-106.9	QUARTZ VEIN-rusty slip at 50°-negligible min.	106.2-106.9	2543	0.7	nil	
106.9-110.6	BIOTITE DIORITE - as before.					
110.6-112.2	BRECCIA-several sections bx-highly altered-qtz.carb. & aplite (?????) negligible min.	110.6-112.2	2544	1.6	nil	
112.2-118.6	BIOTITE DIORITE - as before.					
118.6-122.2	OLIVINE LAMPROPHYRE-large biotite-places in light grey-ground/mass-hi carb with hybrid-more cuts by porphyry and little carb-cut by carb. strgs.					
122.2-123.3	VEIN MATERIAL-0.5' QTZ, veining in highly altered tuff some fine strgs..qtztie strgs. negligible min.	122.2-123.3	2545	1.1	.061	
123.3-125.8	VEIN MATERIAL one section 1.0' highly altered qtz & silicification with odd white qtz.strs(?)scant min.	123.3-125.8	2546	2.5'	.033	
125.8-152.0	BIOTITE DIORITE with sects. of soaked Tuff-in turn both in places cut & altered by qtz. porphyry - good contact at 148.2-80° cut by carb & few qtz. strgs with aplite fair fine py & odd speck cpy. END OF HOLE.					







**DUPLICATE COPY
POOR QUALITY ORIGINAL
TO FOLLOW**

COMPANY: *Quinn's Lumber Co* PROPERTY: *Park* HOLE NO: *D-10-1*
 REFERENCE: *2405* BEARING: *060N* DIP: *53* STARTED: *Aug 9/16* COMPLETED: *Aug 17/16* PAGE NO. *1*
 DEPARTURE: *2400W* DRILLED BY: *Paul S. ...* DEPTH: *152'*
 ELEVATION: *9946.0* LOCATION: LOGGED BY: *...*

FOOTAGE	DESCRIPTION	SAMPLE FOOTAGES	SAMPLE NO.	WIDTH FT.	ASSAY DATA			
					Gold
0.0-5.3	<i>CONCRETE</i>							
5.3-23.8	<i>Tuff - highly altered - much to be seen - cut by fine carb. str.</i> <i>- and white - bedding around 45° - 50°</i> <i>- Ga - 45 x 15°</i>							
23.8-30.7	<i>Basaltic - chert - fine grained - cut by fine carb. str. - low</i> <i>- fine py - contact angle 80°</i>							
30.7-31.7	<i>Vegetational - 1/2 hr. sub-sol - 1/2 sealed tube - low pyrophyllite</i> <i>little py - acid spread soil</i>	<i>30.7-31.7</i>	<i>2541</i>	<i>1.0</i>	<i>nil</i>			
31.7-33.0	<i>Tuff - polymorphic - sealed by pyrophyllite - w. m. pyrophyllite</i>							
33.0-39.9	<i>Diorite - calc. - carb. - fine grained - cut by carb. str.</i>							
39.9-40.9	<i>Pyrophyllite - highly altered - low grade developed - in carb. - some</i> <i>hydrated pyrophyllite and pyrophyllite</i>							
40.9-41.2	<i>Diorite - fine grained - greenish - some fine mica and pyrophyllite</i> <i>sealed tube - cut by fine carb. str.</i>							
41.2-45.0	<i>Vegetational - 1/2 hr. sub-sol - 1/2 sealed tube - low pyrophyllite</i> <i>some fine mica and pyrophyllite</i>	<i>41.2-45.0</i>	<i>2542</i>	<i>3.0</i>	<i>nil</i>			
45.0-70.0	<i>Tuff - highly altered - much to be seen - cut by fine carb. str.</i> <i>fine carb. str. with some pyrophyllite - some fine mica and pyrophyllite</i> <i>50.6-51.7 - cut by fine carb. str. - some fine mica and pyrophyllite</i> <i>- some fine mica and pyrophyllite</i> <i>diorite -</i>							
70.0-106.2	<i>Basaltic Diorite - light grey - white carb. cut by fine carb. str.</i>							
106.2-106.9	<i>Quartz Vein - rusty chip at 30° - negligible vein</i>	<i>106.2-106.9</i>	<i>2543</i>	<i>0.7</i>	<i>nil</i>			
106.9-152.0	<i>Basaltic Diorite - as before</i>							



Legend

-  - Vein Material. A
-  - Diorite. B
-  - Basic Dyke-Gabbro? C
-  - Agglomerate Tuffs D
-  - Dacite E
-  - Very highly Altered. F

DUNRAINE MINES LIMITED
 Forkhill Project
 Sect D.D.H-080-5
 1" = 40' G. Hoody Aug. 17/80

1" = 40'

DUNRAINE MINES LTD.

PROPERTY

PARKHILL

HOLE NO. D-80-5

Page 1

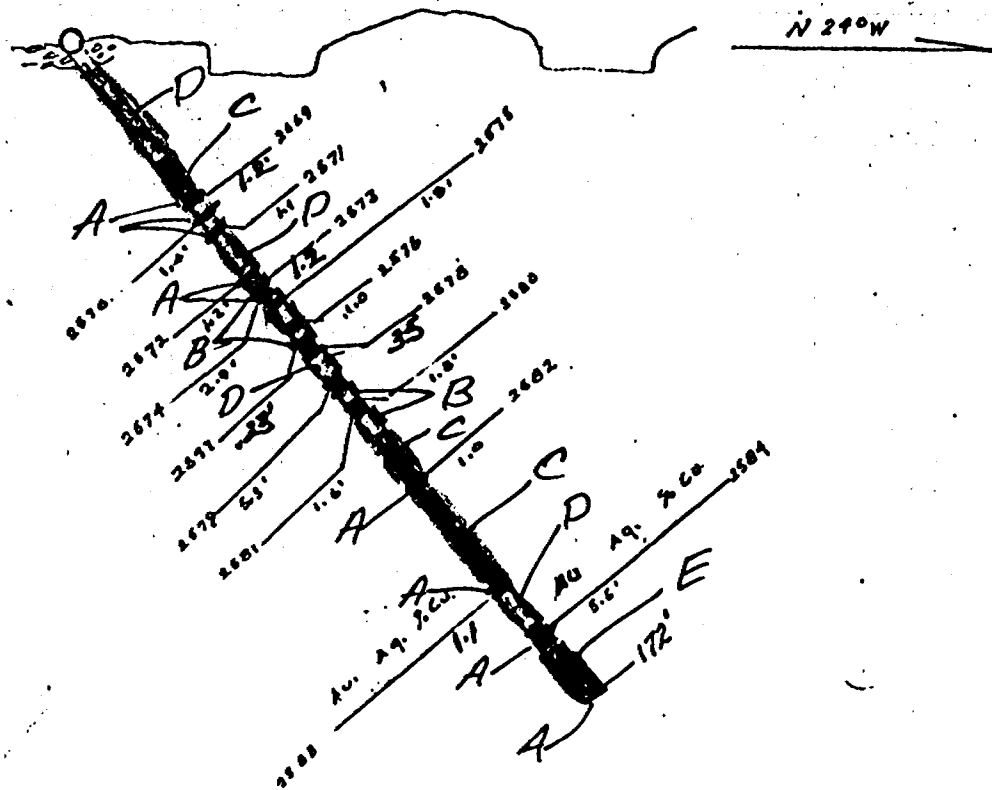
LATITUDE : 2 + 50S	BEARING: N38°W	DIP: -50°	STARTED: Aug. 12/80	COMPLETED: Aug. 13/80		
DEPARTURE: 2 + 60S	V.D.	H.D.	DRILLED BY: MARKSTAY DRILLING		DEPTH: 170'	
ELEVATION:	LOCATION:				LOGGED BY:	
FOOTAGE			SAMPLE FOOTAGES	SAMPLE No.	WIDTH FT.	ASSAY DATA
						GOLD/TON

FOOTAGE			SAMPLE FOOTAGES	SAMPLE No.	WIDTH FT.	ASSAY DATA
						GOLD/TON
0.0 - 5.0	Casing					
5.0 - 12.3	DIORITE-feldspar porphyry-dark grey-med.grained some py.					
12.3 - 14.6	HIGHLY ALTERED ZONE-brecciated-silic-filled by qtz & considerable aplite-scant min.		12.3-14.6	2547	2.3	nil
14.6 - 67.2	DIORITE with few sects. of odd tuffs & hybrid - phases cut by fine carb. strgs.slips at 50&20° to core little carb. - 20.3-22.0 acid tuffs. 26.2-27.0 hi.altered carb cut a few qtz. aplite strgs. - scant min.		62.3-63.3	2548	1.0	nil
67.2-78.5	POLYMICTIC TUFFS-fairly hard - some soaking by felspar porphyry-cut by carb. strgs. 67.2-70.3 low angle 5-10° slips with alteration-carb,silic& aplite scant min.		67.2-70.3	2549	3.1	nil
78.5-85.8	DIORITE-fine grained-dark greenish grey-no carb.fairly hard					
85.8-86.9	HIGHLY ALTERED-few aplitic strgs.+qtz.strgs.-contact 45° to diorite.		85.8-86.9	2550	1.1	nil
86.9-92.6	TUFFS-Carb.					
92.6-127.2	DIORITE-med grained-no carb-fairly massive-slips at 45° and at low angle - 95.8-96.6 bx+qtz.carb strg. with aplitic alteration - some toor.		95.8-96.6	2551	0.8	nil
127.2-129.7	HIGHLY ALTERED SEC.-Hi carb in light grey section-cut by carb.strgs.-chl.strgs.-low angle slip-some grinding					
129.7-133.5	DARKGREEN-fine grained-no carb-cut by few qtz.carb. strgs.-basic dyke-gabbroic.					
133.5-157.0	DACITIC FLOW ?-with short sections of gabbro-little carb. 148.2-148.6 white nuggy qtz.-xtals-some platy pu+fine py.					
157.0-164.3	HIGHLY ALTERED-Dacite-pistachio to olive green sections sections very soft chl-carb strgs.					
164.3-167.0	HIGHLY ALTERED-brecciated-light to dark-green-hi carb & cut by numerous carb.strgs.-very soft-some leaching in carb. near east diabase dyke ? or diabase itself ?					
167.0-168.3	DIABASE-olivine-not too much altered-rather narrow for east diabase may be (???????) or parallel.					
168.3-170.0	FELDSPAR PORPHYRY-fine grained-dark grey-dark inclusive - no carb.					






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COMPANY: *DUNCAINE MINES LTD* PROPERTY: *Parkhill* HOLE NO. *D 80-5*
 LATITUDE: *27505* BEARING: *N 38° W* DIP: *-50°* STARTED: *Aug 12/60* COMPLETED: *Aug 13/60* PAGE NO. *1*
 DEPARTURE: *27605* DRILLED BY: *Markstay Drilling* DEPTH: *170'*
 ELEVATION: LOCATION: LOGGED BY: *AM*

FOOTAGE	DESCRIPTION	SAMPLE FOOTAGES	SAMPLE NO.	WIDTH FT.	ASSAY DATA				
					Gold	Iron			
0.0-5.0	<i>Casing</i>								
5.0-12.3	<i>Diorite - Feldspar porphyry - dark grey-med. - grained - some py</i>								
12.3-14.6	<i>Highly altered zone - brecciated - silic-filled by - qtz + considerable aphte - scant min.</i>	<i>12.3-14.6</i>	<i>2547</i>	<i>2.3</i>	<i>n.l</i>				
14.6-67.2	<i>Diorite - with few seeds of acid ²³ & hybrid - phaser cut by fr carb alteration at 50° to core - little carb.</i>								
	<i>20.3-22.0 - acid ²³</i>								
	<i>26.3-27.5 - fine grained - carb-cut a few qtz - aphte struc - scant min</i>	<i>62.3-63.3</i>	<i>2548</i>	<i>1.0</i>	<i>n.l</i>				
67.2-70.5	<i>Poly mic Tufts - fairly hard - some coating by - feldspar porphyry - cut by carb struc - 67.2-70.3 - low angle 5-10° slope min - alteration - carb, silic + aphte - scant min</i>	<i>67.2-70.3</i>	<i>2549</i>	<i>3.1</i>	<i>n.l</i>				
70.5-85.8	<i>Diorite - fine grained - dark greenish grey - no carb - fairly hard</i>								
85.8-86.9	<i>Highly altered - few aphte struc + qtz struc - contact 45° to diorite</i>	<i>85.8-86.9</i>	<i>2550</i>	<i>1.1</i>	<i>n.l</i>				
86.9-92.6	<i>Tufts - carb</i>								
92.6-127.2	<i>Diorite - med. grained - no carb - fairly massive - slope at 45° at low angle.</i>								
	<i>- 95.8-96.6 - dx + qtz carb struc with aphte alteration - some Tour.</i>	<i>95.8-96.6</i>	<i>2551</i>	<i>0.8</i>	<i>n.l</i>				



Legend

- A  - Vein Material
- B  - Highly Altered Section
- C  - Acid Dyke
- D  - Tuffs
- E  - Dacite

DUNRAINE MINES LIMITED
 Parkhill Project
 Sect. D.D.H.-D80-6
 1" = 40' *R. Handy* Aug. 17/32

1" = 40'

DUNRAINE MINES LTD.

PROPERTY PARKHILL

LATITUDE : 2 + 50S		BEARING: N36°W	DIP: -50°	STARTED: Aug.13/80	COMPLETED: Aug.15/80	HOLE NO. D-80-6
DEPARTURE: 3 + 40W		V.D.	H.D.	DRILLED BY: Markstay Drilling		Page 1
ELEVATION:		LOCATION:				DEPTH:
FOOTAGE		SAMPLE FOOTAGES		SAMPLE No.	WIDTH FT.	ASSAY DATA
						Gold/Ton

DUPLICATE COPY
POOR QUALITY ORIGINAL
TO FOLLOW

0.0- 4.0	Casing					
4.0- 31.4	POLYMIC TIC TUFF-ACID-some rounded pebbles(cgl) at start-highly altered-some pebbles with agilitic alteration-fairly silic.-cut by carb strgs.some hybrid phases-no carb.-fairly massive. 30.6-31.4-bx. filled with carb.& qtz.					
31.4- 41.4	QTZ.FELDSPAR PORPHYRY-greyish-fine grained-greyish cut by many carb.strgs & some qtz. strgs -fair fine					
41.4- 42.6	VEIN MATERIAL - highly altered-hi carb.at ends - bx. cut by carb.&qtz. strgs. with a lot of aplite.					
42.6- 60.3	TUFFS-grey acid porphyry& hybrid phases with tests(?) of high alteration. 45.1-46.5-Very highly altered-cut by carb& qtz strgs-with considerable aplite-scant min. 49.7-50.8 - as above	45.1-46.5	2570	1.4	.004	
60.3- 83.7	VERY HIGHLY ALTERED section-chlorite(carbonate) porphyrite&F.P. in dark ground mass.-grey F.P.. duster(?)-qtz.&carb strgs. with much aplitic alteration-little carb.-scant min. 60.3-61.5 as above but much aplitic alteration 62.3-64.0 as above-bx.cut by 1/2" low angle vein 65.5-68.4 cut by qtz.&carb strgs 85% aplite-scant min. 69.9-71.7 cut by many fine qtz.carb&aplite strgs. scant min. 75.4-76.4 bx.qtz. much aplite-scant min. 77.9-80.2 much altered-much aplite-scant min. 80.2-83.7 much as before	49.7-50.8	2571	1.1	.002	
83.7- 88.0	TUFFS-highly altered-fawn colored-silic.	60.3-61.5	2572	1.2	nil	
88.0-105.0	VERY HIGHLY ALTERED SECTION-as before 88.1-93.2 in places bx.&filled by qtz.&aplite and also cut by qtz. aplite strgs.-scant min. 94.0-95.0-Feldspar porphyry(porphyrite ?) contact angle 45° 96.0-97.5-bx.highly altered-qtz.strgs-much aplite alteration-scant min. 97.5-98.0 Diorite 98.0-100.4 Bx.&filled by qtz. with much aplite alteration-scant min.(?????) 100.4-105.0 some short sects. with qtz.carb.aplite.	62.3-64.0	2573	1.7	.001	
		65.5-68.4	2574	2.0	.001	
		69.9-71.7	2575	1.8	.001	
		75.4-76.4	2576	1.0	.001	
		77.9-80.2	2577	2.3	.001	
		80.2-83.7	2578	3.5	nil	
		88.0-93.2	2579	5.3	nil	
		96.0-97.5	2580	1.5	.001	
		98.0-100.4	2581	1.6	.007	

PROPERTY					HOLE NO. D-80-6	
LATITUDE :	BEARING:	DIP:	STARTED:	COMPLETED:	Page 2	
DEPARTURE:	V.D.	H.D.	DRILLED BY:		DEPTH:	
ELEVATION:	LOCATION:				LOGGED BY:	
FOOTAGE	SAMPLE FOOTAGES	SAMPLE No.	WIDTH FT.	ASSAY DATA		
				AU	AG	CU

105.0-147.5	FELDSPAR PORPHYRY-dark grey-fine grained-no carb. occasional short greenish dioritic dyke-cut by qtz.carb.aplitic strgs & odd short sect.-altered by qtz.carb.& aplite 117.6-118.6-highly altered-aplite, carb&some qtz. 146.5-147.6-well min.-fine pyrrh.&py	117.6-118.6 2582 146.5-147.6 2583	1.0 1.1	nil Ag. Cu .029 .05 .318
147.5-162.1	AGGLOMERATE-hybrid phases with grey F.P.highly altered fairly massive sections fairly massive-sections hi carb.§ion w.m.with pyrrh. py. 152.5-158.1 w.m.pyrrh-some platy py.-grey F.P. and soaked aggl.	157.5-158.1 2584	5.6	.019 nil .038
162.1-172.2	FLOW OR PORPHYRY-fine grained-hi carb. cut by number of carb. strgs. 167.7-0.1' qt.glassy-no min.			

END OF HOLE.

DUPLICATE COPY
POOR QUALITY ORIGINAL
TO FOLLOW

COMPANY: *DORRANCE MINES LTD*

PROPERTY: *Park Hill*

HOLE NO. *2830-6*

LATITUDE: *24505*

BEARING: *N 36° W*

DIP: *50°*

STARTED: *Aug 13/60*

COMPLETED: *Aug 15/60*

PAGE NO. *1*

DEPARTURE: *3740N*

DRILLED BY: *Shakerley Drilling*

DEPTH: *1720*

ELEVATION:

LOCATION:

LOGGED BY: *[Signature]*

FOOTAGE	DESCRIPTION	SAMPLE FOOTAGES	SAMPLE NO.	WIDTH FT.	ASSAY DATA			
					Gold	Ag	Cu	Other
0.0-4.0	Casing							
4.0-31.4	Polymictic Tuff? - acid - some rounded pebbles - (calc) at start - highly altered - some - pebbles with quartz alteration - fairly calc - - cut by calc. string - some hybrid phase - - no calc - fairly massive 30.6-31.4 - br. filled with calc string							
31.4-41.4	Qtz Feldspar Porphyry - ground - fine grained quartz - quartz cut by many calc string some quartz string - br. line in							
41.4-42.6	Very plastic - highly altered - li. calc at end - br. calc string some calc string - quartz	41.4-42.6	2569	1.2				nil
42.6-45.1	Tuff? - grey acid matrix + brown pebbles with quartz - or high alteration - 45.1-45.5 - very hard - br. calc - cut by calc string - at 2 string - with calc string some calc string	45.1-45.5	2570	1.5				.004
45.1-49.7	49.7-50.8 - or above	49.7-50.8	2571	1.1				.002
49.7-60.3	Very highly altered section - chert (carb. bands) - polymictic EP matrix ground mass - calc EP duster - quartz calc string with much quartz alteration - - little calc - react with - 60.3-61.5 - or above but with quartz alteration	60.3-61.5	2572	1.2				nil
60.3-62.3	62.3-64.0 - or above - br. cut by 4" low angle vein	62.3-64.0	-73	1.7				.001
62.3-65.5	65.5-68.4 - cut by quartz calc string - 65% quartz - react with	65.5-68.4	-74	2.9				.001

COMPANY: *Durham Miner Ltd* PROPERTY: *1700111* HOLE NO. *16-0*
 LATITUDE: BEARING: DIP: STARTED: COMPLETED: PAGE NO. *2*
 DEPARTURE: DRILLED BY: DEPTH:
 ELEVATION: LOCATION: LOGGED BY:

FOOTAGE	DESCRIPTION	SAMPLE FOOTAGES	SAMPLE NO.	WIDTH FT.	ASSAY DATA		
					Fe	Ag	Cu
	<i>-69.7-71.7 - cut by many fine qtz carb & quartz - spots - scant min</i>	<i>69.9 - 71.7</i>	<i>2575</i>	<i>1.2</i>	<i>.001</i>		
	<i>-75.4-76.4 - by qtz much on lit - scant min</i>	<i>75.4 - 76.4</i>	<i>2576</i>	<i>1.0</i>	<i>.001</i>		
	<i>-77.9-80.2 - much altered - much qtz - scant min</i>	<i>77.9 - 80.2</i>	<i>2577</i>	<i>2.3</i>	<i>.001</i>		
	<i>-80.2-83.7 - much as before</i>	<i>80.2 - 83.7</i>	<i>-78</i>	<i>3.5</i>	<i>nil</i>		
<i>83.7-88.0</i>	<i>Tuffe - highly altered - faint colored - sub.</i>						
<i>88.0-105.0</i>	<i>Very highly altered section - as before</i>						
	<i>-88.1 - 93.2 - in places are filled by qtz on lit - also cut by qtz on lit slips - scant min</i>	<i>88.1 - 93.2</i>	<i>-79</i>	<i>2.3</i>	<i>nil</i>		
	<i>94.0-95.0 - Felsitic porphyry - much altered - ? - contact on lit 25°</i>						
	<i>96.0-97.5 - by - mainly altered - qtz on lit - much on lit alteration - scant min</i>	<i>96.0 - 97.5</i>	<i>-80</i>	<i>1.5</i>	<i>.001</i>		
	<i>97.5-98.0 - D white</i>						
	<i>98.0-100.4 - by - filled by qtz with much qtz alteration - scant min - ?</i>	<i>98.0 - 100.4</i>	<i>-81</i>	<i>1.6</i>	<i>.007</i>		
<i>105</i>	<i>105.0-105.0 - same about contact with qtz on lit</i>						
<i>105.0-147.5</i>	<i>Felsitic Porphyry - dark grey - fine grained - no carb - associated with quartz & chlorite - cut by qtz carb, quartz slips + also about contact - altered by qtz carb & quartz - 117.1-117.6 - highly altered qtz carb & quartz - 147.5-147.6 - well min. fine grained + quartz</i>	<i>117.1 - 117.6</i>	<i>-82</i>	<i>1.0</i>	<i>nil</i>	<i>Ag</i>	<i>Cu</i>
		<i>147.5 - 147.6</i>	<i>-83</i>	<i>1.1</i>	<i>.029</i>	<i>.05</i>	<i>.31A</i>
	<i>1700111 1700111</i>						

COMPANY: *Dunmore Mines Ltd.*

PROPERTY: *Park Hill*

HOLE NO. *DE5-6*

LATITUDE:

BEARING:

DIP:

STARTED:

COMPLETED:

PAGE NO. *2*

DEPARTURE:

DRILLED BY:

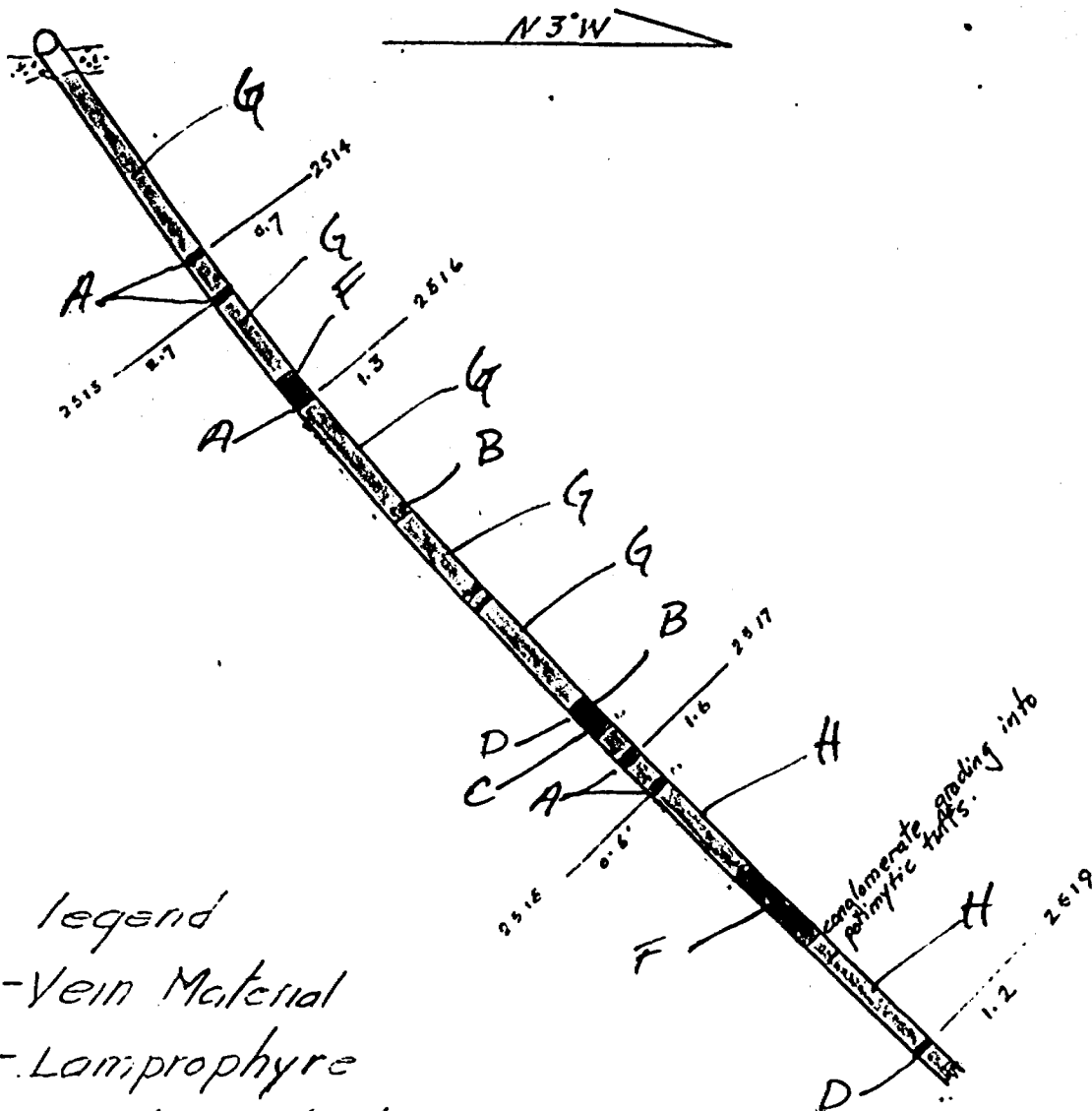
DEPTH:

ELEVATION:

LOCATION:

LOGGED BY:

FOOTAGE	DESCRIPTION	SAMPLE FOOTAGES	SAMPLE NO.	WIDTH FT.	ASSAY DATA		
					Ag	Fe	Cu
<i>147.5-162.1</i>	<i>Agglomerate - blue red color with grey FP - some altered - fairly massive - sectioned</i>						
	<i>- massive - sectioned in carb + section</i>						
	<i>- in a. with some py</i>						
	<i>- 172.5-178.1 - in a. pyrite - some dirty py</i>	<i>172.5-178.1</i>	<i>2584</i>	<i>2.6</i>	<i>.019</i>	<i>nil</i>	<i>.03%</i>
	<i>- grey FP + sectioned</i>						
<i>162.1-172.2</i>	<i>Flawed Pyrophyllite - fine grained - in carb - cut by number of carb stops</i>						
	<i>147.7 - 81' QV glassy - some</i>						
	<i>End of hole</i>						
<i>Drill holes DE5 - 4.546 show that the N.E. trending dikes are indeed intersected by DE5 - with often high alteration exposure of - carb stops often with no alteration in places of the remaining</i>							



Legend

- A - Vein Material
- B - Lamprophyre
- C - Diorite - Porphyrite
- D - Acid dyke
- E - Andesite
- F - Dacite(?)
- G - Agglomerate, tuffs
- H - Conglomerate - grading into polymytic tuffs

DUNRAINE MINES LIMITED
 Parkhill Project
 Sect D.D.H. D80-7
 1" = 40' *W.H.S.* Aug 12/30

1" = 40'

DUNRAINE MINES LTD.

PROPERTY

PARKHILL

HOLE NO. D-80-7

Page 1

LATITUDE : 9+50N	BEARING: N3°W	DIP: Collar -55°	STARTED: Aug. 5/80	COMPLETED: Aug. 9/80		
DEPARTURE: 8+00E	V.D.	H.D. 200' - 47°	DRILLED BY: H. Funk Drilling		DEPTH: 301'	
ELEVATION:	LOCATION:				LOGGED BY:	
FOOTAGE			SAMPLE FOOTAGES	SAMPLE No.	WIDTH FT.	ASSAY DATA
						Gold/Ton

0.0- 7.5	Casing					
7.5- 88.5	AGGLOMERATE & TUFFS- interbedded by feldspar porphyry some hybrid phases-low carb. fairly massive-cut by odd qtz.or carb.strg-slips at 80°and around 45° 55.8-56.5 bx.highly altered-qtz.&carb.alongwith aplite in silic.areas-slips45+50° to core - low fine py. on slips. - 66.2-67.9-bx. carb.&qtz.filling alongwith some aplite areas-scant min.	55.8-56.5	2514	0.7'	.001	
88.5- 94.6	BIOTITE DACITE-Diorite ? fine grained grey-lot of fine biotite crested at 30° to core-in places soaked by qtz. eye porphyry.					
94.6- 95.9	VEIN MATERIAL-fine grained-gray-silic.with aplite streaks fairly fine py.	94.6-95.9	2515	1.3	.001	
95.9-125.7	AGGLOMERATE-in biotitic dacitic groundmass-soaked by Qtz.eye porphyry-in places odd frag.seen.cut by silic & carb. strgs-fine py.on slips-fairly massive 103.6-104.6-open slips-sand-water later returned.					
125.7-128.3	LAMPROPHYRE-much biotite.					
128.3-149.0	AGGLOMERATE & TUFFS-polymictic-in places silic & soaked by porphyrite-some new crystal tuffs - fairly massive 148.0-149.0 F.P.gunmetal blue(lamprophyre ?)					
149.0-150.0	LAMPROPHYRE-contact angle 30°.					
150.0-152.0	AGGL & TUFF - as above.					
152.0-153.2	Lamprophyre.					
153.2-183.2	AGGLOMERATE & TUFFS - as before.					
183.2-188.0	ACID INTRUSIVE - fine grained greyish green fair mica.					
188.0-192.0	PORPHYRITE-feldspar porphyry-contact with above 65° and 45°					
192.0-198.6	AGGLOMERATE-TUFFS Polymictic with acid frags,up to 0.6' grades into grey biotite diorite ?					
198.6-200.0	AGGLOMERATE-TUFFS Breccia highly altered & filled by qtz. carb. & aplite-slight min.	198.6-200.2	2517	1.6	.001	
200.2-207.6	AGGLOMERATE & TUFF as before.					
207.6-208.2	BRECCIA-cut by qtz.strgs - sli. min	207.6-208.2	2518	0.6	.002	
208.1-209.7	BRECCIA-cut by many fine silic&carb.strgs with areas of aplite - sli. min.	208.2-209.7	2519	1.5	nil	
209.7-238.5	AGGLOMERATE AND TUFF-polymictic-soaked by acid intrusive fine grained greyish green fair carb. 214.0- 0.4' qtz.vein with aplite -negligible min. 222.5-228.0 - fine to ffs in dark basic ground mass.					

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POOR QUALITY ORIGINAL
TO FOLLOW**

PROPERTY

HOLE NO. D-80-7

Page 2

LATITUDE :	BEARING:	DIP:	STARTED:	COMPLETED:		
DEPARTURE:	V.D.	H.D.	DRILLED BY:		DEPTH:	
ELEVATION:	LOCATION:				LOGGED BY:	
FOOTAGE			SAMPLE FOOTAGES	SAMPLE No.	WIDTH FT.	ASSAY DATA

238.5-256.0 ANDESITE-fine grained-hi carb.chl.-fairly massive, cut by several carb. strgs.
 256.0-261.0 AGGLOMERATES-TUFFS - fine grained silicious.
 261.0-295.8 CONGLOMERATE-acid to basic pebbles+frags. upto 3"-grading 289.4-290.6 2524 1.2 nil
 into polymictic tuffs-polymictic tuffs and back again-cut by odd qtz.carb strg-fairly massive.
 295.8-301.0 LAMPROPHYRE-fine grained, black, not carbonate.

END OF HOLE.

**DUPLICATE COPY
 POOR QUALITY ORIGINAL
 TO FOLLOW**

congrm

COMPANY: <i>DUNDEE MINES LTD.</i>			PROPERTY: <i>Park Hill</i>		HOLE NO. <i>D50-7</i>
LATITUDE: <i>94.50N</i>	BEARING: <i>N. 3° W</i>	DIP: <i>Collar - 53°</i>	STARTED: <i>Aug 5/80</i>	COMPLETED: <i>Aug 9/80</i>	PAGE NO. <i>81</i>
DEPARTURE: <i>240 E</i>			DRILLED BY: <i>H. Funk Drilling</i>		DEPTH: <i>301</i>
ELEVATION: <i>277</i>	LOCATION:				LOGGED BY: <i>SEJ</i>

FOOTAGE	DESCRIPTION	SAMPLE FOOTAGES	SAMPLE NO.	WIDTH FT.	ASSAY DATA	
					Gold/ton	
<i>350-7.5</i>	<i>Collar</i>			<i>1.5</i>		
<i>7.5-33.5</i>	<i>Agglomerate + Tuff - intruded by dike, no contact - some highly altered - calc. - 20% - massive - calc. - 20% - 30% - 10% at 75° + calc. - 20%</i>					
	<i>55.5-56.5 - by highly altered - quartz along with quartz in altered zone 35-50% calc. - 20% - 30%</i>	<i>55.5-56.5</i>	<i>2514</i>	<i>0.7'</i>	<i>.001</i>	
	<i>66.2-67.9 - by calc. - 20% - 30% with some quartz in altered zone</i>	<i>66.2-67.9</i>	<i>2515</i>	<i>3.7</i>	<i>nil</i>	
<i>94.6-95.9</i>	<i>Basaltic Dacite - dark? - fine grained - lot of calc. - 20% created at 30° to calc. - in altered zone qtz eye periphery</i>					
<i>95.9-125.7</i>	<i>Non Altered - fine grained - gray - calc. with quartz - 20% - 30% Agglomerate - in altered zone - quartz - 20% - 30% periphery - in dark calc. - 20% - 30% + calc. - 20% - 30% - 20% - 30%</i>	<i>94.6-95.9</i>	<i>2516</i>	<i>13</i>	<i>.001</i>	
	<i>103.6-104.6 - dark tuff - calc. - 20% - 30%</i>					
<i>125.7-126.7</i>	<i>Laminar tuff - much calc.</i>					
<i>126.7-129.3</i>	<i>Agglomerate + Tuff - calc. - 20% - 30% in altered zone - calc. - 20% - 30% faintly massive</i>					
	<i>129.3-129.6 - fine grained - basal - calc. - 20% - 30%</i>					
<i>129.6-130.8</i>	<i>Laminar tuff - contact angle 30°</i>					
<i>130.8-131.0</i>	<i>Agglomerate + Tuff - calc. - 20% - 30%</i>					

DUNRAINE MINES LTD.

PROPERTY PARKHILL

HOLE NO. D-80-8

LATITUDE : 23 + 90S	BEARING: N 31° W	DIP: 45°	STARTED: Aug. 17th	COMPLETED: Aug. 19th	Page 1
DEPARTURE: 15 + 79W	V.D.	H.D. 200' - 40°W	DRILLED BY: H. Funk Drilling		DEPTH: 340'
ELEVATION:	LOCATION: Claim 542856			LOGGED BY:	

FOOTAGE	SAMPLE FOOTAGES	SAMPLE No.	WIDTH FT.	ASSAY DATA	
				Gold/ton	
0.0 - 5.0	Casing				
5.0 - 41.0	MAINLY TUFF-altered with hybrid phases with intrusive porphyries. cut by carb.silic.&aplitic strgs. contact 50° to core.				
41.0 - 46.4	VEIN MATERIAL-very highly altered by aplite-all a brilliant scarlet-br. & cut by 1.8' qtz.carb. vein at 5-10° to core carb in places leached. cut-qtz.white & in places xtals-scant min.	41.0-46.4	2585	5.5	.001
46.4 - 111.0	MAINLY TUFF-highly altered-hi carb. hybrid phases with biotite diorite, Q.F.P & F.P.-sect. br. cut by few fine qtz.carb.aplite strgs.				
111.0 - 243.7	MAINLY BIOTITE DIORITE-with some tuffaceous sections often quite altered and chlorite (andesite ?) cut by carb.qtz. and aplite strgs. fairly massive slips at 70, 50, 40, 20° to core - 164.1-164.8 low angle qtz.carb. aplite vein & bx.-low fine py. 138.0-139.4 - bx.low angle slips - qtz. carb.aplite aplite filling & on slips (30%) - some carb leached out - scant min.	138.0-139.4	2586	1.4	nil
243.7 - 347.0	PORPHYRITE-(FELDSPARS in dark ground mass) contact angle 45° with core.				
	247.0-248.0 - Mainly biotite dacite - as before				
	248.0-250.8 - Vein Material-dacite-highly altered - bx filled with qtz. carb. aplite - 80% altered - some leaching	248.0-250.8	2587	2.8	.001
	250.8-251.4 - BIOTITE DIORITE - fine grained diorite dyke				
	251.9-254.8 - VEIN MATERIAL(brecciated)-filled by quartz, carb.aplite 30%, some epidote-high alteration-scant min.	251.9-254.8	2588	2.9	nil
	254.8-256.4 - VEIN MATERIAL-1.4' white Q.V. in bx.rest hi carb.& aplite-scant min. vein in shaft	254.8-256.4	2589	1.2	nil
	256.4-259.3 BIOTITE DIORITE - as before				
	259.3-262.9 TUFF -odd-altered cut by carb. & qtz. strgs.				
	262.9-265.3 VEIN MATERIAL-bx. silic & cut by qtz. carb, aplite strgs.-fair - fine py.	262.9-265.3	2590	2.4	nil

**DUPLICATE COPY
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TO FOLLOW**

PROPERTY:

LATITUDE :	BEARING :	DIP :	STARTED :	COMPLETED :	HOLE NO. D-80-8	
DEPARTURE :	V.D.	H.D.	DRILLED BY :		Page 2	
ELEVATION :	LOCATION :				DEPTH :	
			LOGGED BY :			
FOOTAGE			SAMPLE FOOTAGES	SAMPLE No.	WIDTH FT.	ASSAY DATA

265.3 - 267.8	VEIN MATERIAL-0.8' fine grained F.P. with hi.carb- 1.5' bx(brecciated)-highly altered-cut by qtz. carb. strgs. - fair aplite.- some leaching of carb.3/4" strg. FLORITE - scant min.	265.3-267.6	2591	2.3	nil
267.6 - 283.0	ACID INTRUSIVE-fine grained grey- qtz.Diorite-cut by some qtz.carb, aplite strgs.				
283.0 - 284.6	VEIN MATERIAL 283.0-284.6 - 0.5' white Q.V at 20° to core fringed with aplite-rest altered-qtz.carb.& much aplite over last .6"-scant min.	283.0-284.6	2592	1.6	nil
284.0 - 300.5	HIGHLY ALTERED SECTION-F.P with in places biotite. hi.carb.fine grained greyish green-cut by many qtz.carb. aplite strgs.				
300.5 - 304.7	QTZ.VEIN-nearly parallel to core - 40%qtz.- rest carb. aplite - scant min.	300.5-304.7	2593	4.2	nil
304.7 - 308.0	Q. VEIN-as before-nearly parallel to core-scant min. 304.7-305.3 country rock - sc	304.7-308.0	2594	3.3	.005
308.0 - 308.8	ACID DYKE-fine grained greyish - no carb.				
308.8 - 309.8	QUARTZ VEIN-as before but at 20° to core-80% qtz. barren	308.0-309.8	2595	1.0	nil
309.8 - 311.8	ACID DYKE - F.P.				
311.8 - 312.9	VEIN MATERIAL - low angle T.W.about 1"-lot of carb.aplite with epidote boundaries-few fine dark grey strgs-scant min.	311.8-312.9	2596	1.1	.001
312.9 - 314.8	ACID INTRUSIVE				
314.8 - 317.6	VEIN MATERIAL-very highly altered-silic.carb qtz.strgs. much aplite - scant min.	314.8-317.6	2597	2.9	nil
317.6 - 323.2	HIGHLY ALTERED silic-soaked by qtz. F.P.				
323.2 - 328.00	GABBRO DIORITE-fresh qtz.biotite contact angle at end 30° little greenish epidote alteration.				
328.0 - 340.0	BIOTITE DIORITE-hi carb-soaked in places by (????)with blue qtz.eyes -few qtz.carb. aplite strgs. 337.0-338.5 Grandiorite - contact 45°				

END OF HOLE.

**DUPLICATE COPY
POOR QUALITY ORIGINAL
TO FOLLOW**

COMPANY: *Dunrain Mines LTD* PROPERTY: *Parkhill* HOLE NO. *250-8*
 LATITUDE: *23+9.05* BEARING: *N. 71° W* DIP: *25°* STARTED: *Aug 17* COMPLETED: *Aug 19th* PAGE NO. *1*
 DEPARTURE: *15+79W* LOCATION: *C. 10111.542856* DRILLED BY: *H. Funk Drilling* DEPTH: *390'*
 ELEVATION: LOCATION: *C. 10111.542856* LOGGED BY: *BEH.*

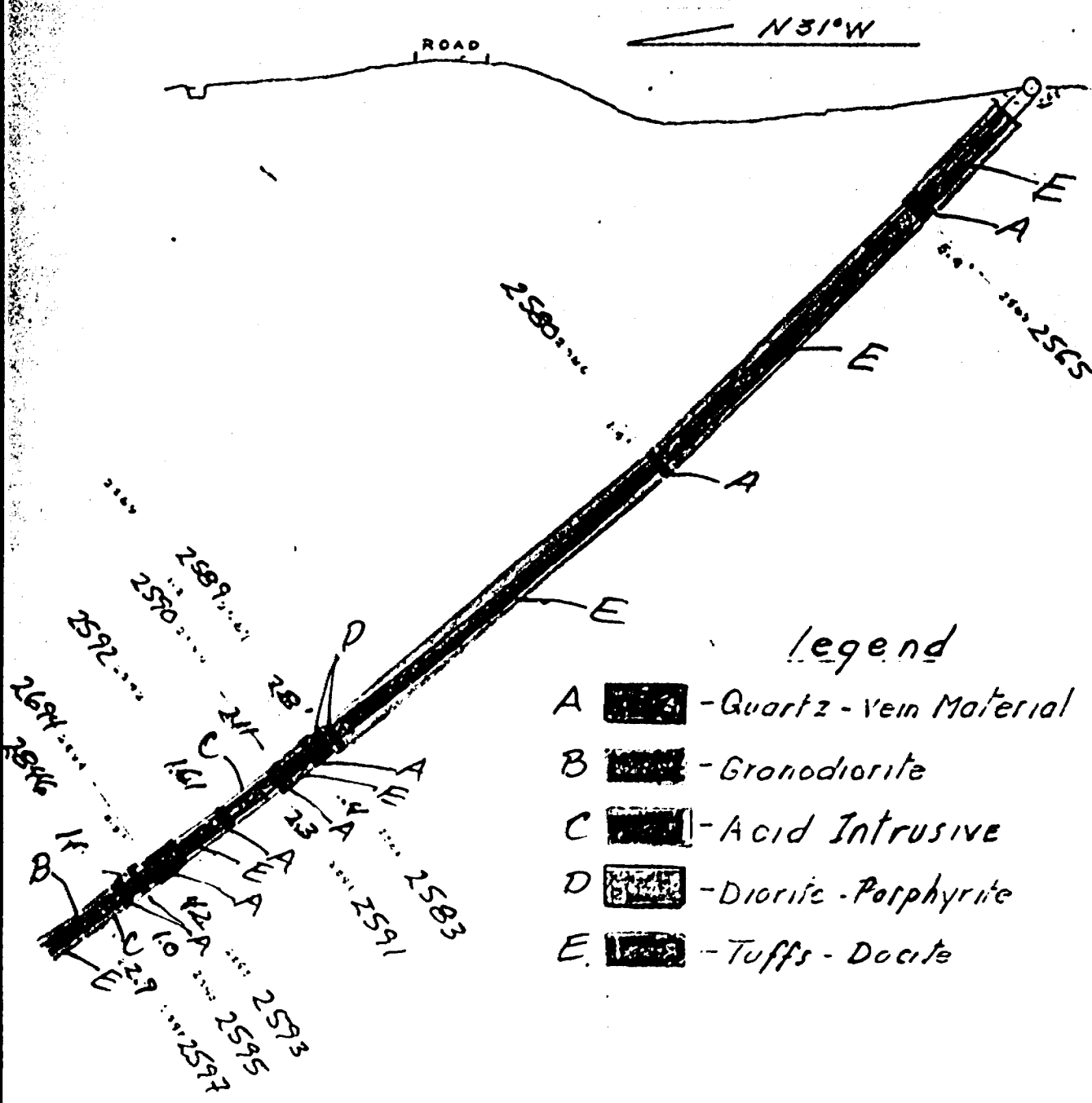
FOOTAGE	DESCRIPTION	SAMPLE FOOTAGES	SAMPLE NO.	WIDTH FT.	ASSAY DATA			
					Gold/gram			
0.00-5.0	<i>Casing</i>							
5.0-41.0	<i>Mainly Tuff - altered - with hyaline veins with - intrusive porphyries - cut by carb. - some apatite signs - can be 50° to core</i>							
41.0-76.7	<i>Vein Material - very highly altered by apatite - all a - abundant carb. - by cut by 12' qtz carb - vein at 50° to core - can be traced out - qtz white & sulphur veins - scant min</i>	<i>41.0-46.4</i>	<i>2585</i>	<i>5.2</i>	<i>.061</i>			
76.4-111.0	<i>Mainly Tuff - highly altered - hyaline veins - with some chert, G. SP. etc - sects be cut - by low angle qtz carb, apatite signs</i>							
111.0-124.5	<i>Mainly biotite dacite - with some talcous sections - often quite altered & siliceous (amorphous?) - cut by carb. qtz and apatite signs - fairly massive, dips at 50-55-60° to core - 16.41-16.78 - low angle qtz carb, apatite vein + ss - laminae py</i>							
124.5-139.0	<i>139.0-139.4 - by - low angle slips - qtz, carb, apatite filling & on slips (30%) - some carb leached out - scant min</i>	<i>139.0-139.4</i>	<i>2586</i>	<i>1.4</i>	<i>nil</i>			
139.0-237.0	<i>Pyrophyte - (felt in some ground mass) - contact angle 45° with core</i>							
237.0-248.0	<i>Mainly biotite dacite - or ortho</i>							
248.0-250.0	<i>Vein Material - dacite - highly altered - by filled with qtz carb, apatite - 60° altered - some leaching</i>	<i>248.0-250.0</i>	<i>- 87</i>	<i>2.8</i>	<i>.001</i>			

COMPANY: *Dunsmuir* PROPERTY: *Rock Hill* HOLE NO. *ED-8*
 LATITUDE: BEARING: DIP: STARTED: COMPLETED: PAGE NO. *2*
 DEPARTURE: DRILLED BY: DEPTH:
 ELEVATION: LOCATION: LOGGED BY:


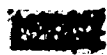
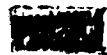

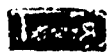
FOOTAGE	DESCRIPTION	SAMPLE FOOTAGES	SAMPLE NO.	WIDTH FT.	ASSAY DATA			
					Gold	Ag	Cu	Fe
251.8-251.9	<i>Basaltic Dike - fine grained white dyle</i>							
251.9-254.9	<i>Vein Material - (disseminated) - filled by qtz, carb & aphte - sects - some sporadic - high siliceous impure mat</i>	251.9-254.8	2528	2.9	nil			
254.9-256.9	<i>Vein Material - 1.4' white Qz in ss - 150' by carb & aphte - scant min - vein in sample</i>	254.8-256.9	-89	1.2	nil			
256.9-257.5	<i>Basaltic Dike - as before</i>							
257.5-262.9	<i>Tuff - a - cut by quartz & aphte</i>							
262.9-265.3	<i>Vein Material - br - ss & cut by qtz carb aphte & Fe - 2' thick</i>	262.9-265.3	-90	2.4	nil			
265.3-267.6	<i>" " - 0.8' fine grained FP with bu carb 1.5' br associated - highly altered - cut by qtz carb, aphte - some aphte - 'some leaching of carb - 3/4" dip. FAVORITE</i>	265.3-267.6	-91	2.3	nil			
267.6-283.0	<i>Acid Intrusive - fine grained grey - qtz Dike - cut by some qtz carb aphte strgs</i>							
283.0-284.6	<i>Vein Material 283.0-284.6 - 0.5' white Qz at 20° to curve - fringed with aphte - rest altered - qtz carb & much aphte overl - 6" - scant min</i>	283.0-284.6	-92	1.6	nil			
284.6-300.5	<i>Highly Altered Section - FP with in places bu carb - br carb - fine grained greyish green - cut by many qtz carb aphte strgs</i>							
300.5-301.7	<i>Qtz Vein - nearly parallel to core - 40% qtz carb carb aphte - scant min</i>	300.5-301.7	-93	4.2	nil			

COMPANY: <i>Dunsmuir Mines</i>			PROPERTY: <i>Parkhill</i>		HOLE NO. <i>D80-8</i>
LATITUDE:	BEARING:	DIP:	STARTED:	COMPLETED:	PAGE NO. <i>3</i>
DEPARTURE:				DRILLED BY:	DEPTH: <i>340'</i>
ELEVATION:	LOCATION:			LOGGED BY:	

FOOTAGE	DESCRIPTION	SAMPLE FOOTAGES	SAMPLE NO.	WIDTH FT.	ASSAY DATA				
					Gold	Ag	Cu	Pb	Zn
3047-3080	Q vein - as before - nearly parallel to core - scant mica - 3047-3053 - cavity rock - sc	3027-3080	2594	3.3	.005				
3080-3088	Acid dyke - fine grained greyish - no carb								
3088-3098	Quartz vein - as before but at 20° to core - few Qtz - brown	3080-3098	-95	1.0	nil				
3098-3111	Acid dyke - FD								
3118-3129	Vein Material - low angle. Tsv. about 1" lat of carb. ap. lte with epidote bands - few fine dark grey - strips - scant mica	3118-3129	-96	1.1	.001				
3129-3145	Acid Intrusion -								
3145-3176	Vein Material - very highly altered - sil. - carb. & clay - much quartz - scant mica	3142-3176	-97	2.9	nil				
3176-3333	Highly Altered - sil. - soaked by Qtz. FD								
3333-3370	Granodiorite - fresh Qtz. sil. - contact angle at end 30° - little quartz (epidote) alteration								
3370-3420	Granite Diabase - bi. carb. - soaked in places by quartz with fine Qtz. exp. - few Qtz. carb. ap. lte strips 3370-3385 - Granodiorite - contact 25°								
<i>End of Hole</i>									



legend

- A  - Quartz-Vein Material
- B  - Granodiorite
- C  - Acid Intrusive
- D  - Diorite-Porphyrite
- E  - Tuffs - Dacite

Claim No. 542856

DUNRAINE MINES LIMITED
 Parkhill Project
 Sect. D.D.H.-DBO-8
 1" = 40' *L.H. Hardy* Aug. 21/80

1" = 40'

Duwaine Mines Ltd. PROPERTY: HOLE NO. *Page 1*
 LATITUDE: L4+35 E BEARING: N 3° W DIP: -50° STARTED: Sept 2/80 COMPLETED: Sept 5/80 D 80-9
 DEPARTURE: 6+425 V.D. H.D. DRILLED BY: Markstay D.D. core - BQ DEPTH:
 ELEVATION: ~~535~~ -20' ± LOCATION: shaft elev = 0 LOGGED BY: J. Guinac

FOOTAGE	DESCRIPTION	SAMPLE FOOTAGES	SAMPLE No.	WIDTH FT.	ASSAY DATA	
					Gold/ton	
0-3'	Casing.					
3-11.5	TUFFS cut by carbonate stringers.					
11.5-53.0	Felspar Porphyry - biotite rich.					
53.0-134	TUFFS with some highly altered sections.					
	74.6-76.7 - quartz carbonate vein with brecciated TUFFS in Wallrock	74.6-76.7	6018	2.1'	.001	
	99.2-99.6 - lamprophyre dyke					
	107.4-109.8 - Lamp. dyke cut at 45°					
	113.7-114.7 - Lamp dyke					
	120.6-124 - Lamp dyke					
134-154.2	Lamprophyre dyke Felspar Porphyry - with well formed biotite					
154.2-353	TUFFS with some highly altered sections					
	- 163.7-164.4 - Quartz vein - sugary texture scant mineral	163.7-164.4	6019	0.7'	.067	
	- 184.7-185.2 Lamp. dyke.					
	- 189.3-189.6 Lamp dyke					
	- 190.9-192.6 Lamp dyke					
	- 200.7-201.3 Lamp dyke - bleached W.R.					
	- 212.2-215 - Vein Material - quartz carb. 1" lamp dyke - highly altered	212.2-215	6020	2.8	.008	
	- 233.1-233.4 Lamp dyke					
	- 236.4-236.8 carbonate vein.					
	- 240.6-242.6 - lamprophyre dyke					

Dawson Mines Ltd PROPERTY: _____

HOLE NO. **D80-9** page 2

LATITUDE:	BEARING:	DIP:	STARTED:	COMPLETED:	DEPTH:
DEPARTURE:	V.D.	H.D.	DRILLED BY:		LOGGED BY:
ELEVATION:	LOCATION:				

FOOTAGE	SAMPLE FOOTAGES	SAMPLE No.	WIDTH FT.	ASSAY DATA		
					Gold/ton	
249.7 - 252.2						
252.2 - 254.6						
254.6 - 257.4						
257.4 - 257.4						
257.4 - 261.0						
261.0 - 262.3	261-262.3	6021	1.3	Possible Bark Hill	Vein	? .199 V.G.
262.3 - 264.1	263-264.1	6022	1.1'			.001
264.1 - 266.2						
266.2 - 312.6						
312.6 - 334.1						
334.1 - 334.2						
334.2 - 338.1	338.1-338.6	6023	0.5'			nil
End of hole.						

Dunrain Mines Ltd. PROPERTY: Parkhill
 HOLE NO. D80-10
 LATITUDE: 16°50' F BEARING: Due N DIP: verticle STARTED: Aug. 23/80 COMPLETED: Aug. 27/80
 DEPARTURE: 5+55.5 V.D. H.D. DRILLED BY: Markstay D.O. core - BQ
 ELEVATION: -20' ± 5' LOCATION: LOGGED BY: P. Gignac
 page 1
 DEPTH: 403

FOOTAGE	DESCRIPTION	SAMPLE FOOTAGES	SAMPLE No.	WIDTH FT.	ASSAY DATA	
					Gold/ton	
0-3	Casing					
3-11.7	Conglomerate with some highly altered sections					
	8.3-8.7 Lamp dyke.					
	9.1-10.5 zone of alteration					
	10.5-11.7 Vein material (slight min.)	# 6005	# 6008	1.2'	.057	
11.7-53.4	Tuffs, highly altered, biotite rich with numerous quartz and carbonate stringers					
	40.6-42.3 - Lamp dyke (50° to core)					
53.4-77.8	Granodiorite - blue quartz eye variety - highly altered with quartz, carba and aplitic stringers.					
	56.3-58.5 - Lamp dyke at 30° to core					
	60.7-61.8 - vein material	60.7-61.8	6009	1.1'	.001	
	64.9-67.2 - Lamprophyre dyke					
	67.2-68.6 - vein material	67.2-68.6	6010	1.4'	nil	
77.8-141.6	Tuffs - with blue alteration near lamp					
	89.0-106.1 - lamprophyre dyke with highly altered + bleached wall rock.					
141.6-153.5	Felspar porphyry - biotite rich					
	144.3-148.8 - vein material, high alteration with schistosity and silicification. Slight mineral.	144.3-146.3	6011	2.0'	.002	
		147.4-148.8	6012	1.4'	.013	

DUNRAINE MINES LTD.

PROPERTY PARKHILL

HOLE NO. D-80-11

LATITUDE:	BEARING: S 40°W	DIP: 50°	STARTED: Aug. 12/80	COMPLETED: Aug. 15/80	Page 1
DEPARTURE:	V.D.	H.D. 200' - 44°	DRILLED BY: H. Funk Drilling		DEPTH: 255
ELEVATION:	LOCATION: Area of Mariposa shaft				LOGGED BY:
FOOTAGE	SAMPLE FOOTAGES	SAMPLE No.	WIDTH FT.	ASSAY DATA	
				Gold/ton	

0.0 - 5.6	CASING				
5.6 - 13.6	QTZ.FELDSPAR PORPHYRY-some qtz.po carb.-fine grained greenish grey-cut by odd carb. strg.- around 80-45& low angle to core - fairly massive. 6.9'- $\frac{1}{2}$ " lamprophyre-hi biotite.				
13.6 - 16.1	FELDSPAR PORPHYRY - hi carb.contact with lamp 10° - meta Volc ?				
16.1 - 18.3	LAMPROPHYRE - Hi biotite.				
18.3 - 23.0	QTZ.FELDSPAR porphyry-some hybrid phases-little carb. 21.2-23.0'hi altered cut by qtz.strgs silic. scant min.	21.2-23.0	2552	1.8	.001
23.0 - 26.5	LAMPROPHYRE				
26.5 - 28.5	QTZ. FELDSPAR PORPHYRY - no carb.				
28.5 - 29.5	LAMPROPHYRE				
29.5 - 33.7	QTZ.FELDSPAR PORPHYRY-no carb. cut by numerous qtz.carb. strgs scant min.	29.5-33.7	2553	4.2	.001
33.7 - 38.1	FELDSPAR PORPHYRY-with hybrid phases with car. some qtz.strgs.				
38.1 - 42.0	HIGHLY ALTERED SECT.-cut by qtz. strgs.little aplite scant min.	38.1-42.0	2554	3.9	nil
42.0 - 83.9	QTZ. FELDSPAR PORPHYRY-as before-hybrid sect.toward end. 77.0-80.0- 1.4' of qtz.carb.& aplite strgs with hi alteration - scant min. 82.7-83.9 low angle slip $\frac{1}{2}$ dark hi carb-fair fine py as mica-fair fine py- $\frac{1}{2}$ silic altered low py - little carb. grades into following biotite diorite - contact at 15° to core.	77.0-80.0	2555	3.0	nil
83.9 - 87.6	DIORITE-very highly altered-silic few fine qtz.& carb str. - fair fine py.	83.9-87.6	2556	3.7	nil
87.6 - 90.5	HIGHLY ALTERED sect. dark fine grained with silic sect. greyish in colour.				
90.5 - 91.2	LAMPROPHYRE				
91.2 - 93.0	VERY HIGHLY ALTERED at 10° to core with biotite diorite				
93.0 - 95.8	BIOTITE DIORITE-very highly altered-cut by (?????) qtz. strgs. - fair fine py.	93.0-95.8	2557	2.8	nil
95.8 - 97.3	MAINLY BIOTITE DIOR.hi altered -chl. incl. fine py.				
97.3 - 98.3	VEIN MATERIAL-altered biotite diorite with 0.2' qtz. & silic. band - fair py.	97.3-98.3	2558	1.0	.001

DUPLICATE COP.
POOR QUALITY ORIGINAL
TO FOLLOW

PROPERTY					HOLE NO. D-80-11	
LATITUDE :	BEARING:	DIP:	STARTED:	COMPLETED:	Page 2	
DEPARTURE:	V.D.	H.D.	DRILLED BY:		DEPTH:	
ELEVATION:	LOCATION:				LOGGED BY:	
FOOTAGE			SAMPLE FOOTAGES	SAMPLE No.	WIDTH FT.	ASSAY DATA
						Gold/ton

98.3 - 102.0	BIOTITE DIORITE -as before 101.0-102.0-fair py with 0.3' qtz.&silic. band	101.0-102.0	2559	1.1	.006
102.0 - 104.5	QTZ VEIN-mariposa di ? 2.1 bluish white vitreous qtz. plus few qtz. aplite & chl. str.	102.0-104.5	2560	2.5	.001
104.5 - 108.4	BIOTITE DIORITE - as before-105.5-0.2' vitreous white qtz. 107.2-0.2' Vitreous white qtz.with odd fine aplite strg.	105.5-107.4	2561	2.9	nil
108.4 - 110.4	TUFFS ?-hi carb.in places quite altered & silic.				
110.4 - 113.0	VEIN MATERIAL-highly altered-cut by fine qtzcarb.strgs.much aplitic alteration - scant min.	110.4-113.0	2562	2.6	nil
113.0 - 133.5	TUFFS as before-low angle contact at end 15° to core-brecciat	129.3-130.7	2563	1.4	.001
133.0 - 135.0	VEIN MATERIAL-Highly altered-bx.qtz & aplitic alteration contact angle 15° to core - scant min.	133.5-135.0	2564	1.5	nil
135.0 - 138.8	QTZ.FELDSPAR Porphyry-grey-in carb.-cut by many carb.strgs. & odd sect.qtz. with aplite strgs.				
138.8 - 143.0	TUFFS-breccia-contact at end with porphyry 45° to core.				
143.0 - 250.0	QTZ.FELDSPAR Porphyry-as before-some hybrid phases places with carb.& sects of altered tuffs - some fine grained greyish green and dykes. 146.9-148.2 Highly altered-carb-cut by (?)white qtz vein&strgs. some aplite - scant min 160.3-163.4 altered as before 175.0-178.0 hybrid phase-very highly altered- cut by qtz.strgs. with a lot of aplite-light green, chlorite in places - scant min. 181.5-183.0 highly altered-silic-cut by several qtz. strgs. - much aplite 194.9-196.0 basic dyke, chl. at 5° to core	146.9-148.2	2565	1.3	nil
250.0 - 252.5	LAMPORPHYRE-bluish alteration at end-contact 20° to core				
252.5 - 255.0	FELDSPAR PORPHYRY - as before				
END OF HOLE.					

**DUPLICATE COPY
POOR QUALITY ORIGINAL
TO FOLLOW**

The hole was aimed between the 1st and 3rd Level of the Mariposal N.W.drift near the intersection with an easterly trending vein where it was said better values were obtained. We did not get the wide quartz intersection that we expected from the surface exposures.

From the amount of qtz. feldspar porphyry intercepted it would appear that we are not too far from a grandiorite stock.

COMPANY: *Dunsmuir Mines Ltd* PROPERTY: *Parkhill* HOLE NO. *D88-11*
 LATITUDE: BEARING: *S 40° W* DIP: *50°* STARTED: *Aug 16* COMPLETED: *Aug 15/60* PAGE NO. *1*
 DEPARTURE: LOCATION: *Area of Morrison shaft* DRILLED BY: *H. Funk Drilling* DEPTH: *255*
 ELEVATION: LOGGED BY: *AFH*

FOOTAGE	DESCRIPTION	SAMPLE FOOTAGES	SAMPLE NO.	WIDTH FT.	ASSAY DATA				
					Gold/ton				
0.0-5.6	Casing								
5.6-13.6	Qtz. Feldspar Periphyry - some qtz - no carb - fine gran - greenish grey - cut by acid carb string - ground to - 45% low acid to carb - fairly massive - 6.9' - 1/2" lamprophyre - bi biotite								
13.6-16.1	Feldspar Periphyry - bi carb, con acc with lampro - mica vol.?								
16.1-18.3	Lamprophyre - bi biotite								
18.3-23.0	Qtz. Feldspar periphyry - some hybrid phase - little carb - 21.2 - 23.0 - bi altered cut by qtz string sil - react mica	21.2 - 23.0	2552	1.6	.001				
23.0-26.5	Lamprophyre -								
26.5-28.5	Qtz. Feldspar Periphyry - no carb								
28.5-29.5	Lamprophyre								
29.5-33.7	Qtz. Feldspar Periphyry - no carb cut by massive qtz carb string - react mica	29.5-33.7	2553	4.1	.001				
33.7-35.1	Feldspar Periphyry - with hybrid phase with carb some qtz carb string								
35.1-42.0	Hybrid altered sect - cut by qtz string, some qtz carb - react mica	35.1-42.0	2554	3.9'	nil				
42.0-83.9	Qtz. Feldspar Periphyry - no carb - hybrid sect. toward end - 77.0 - 80.0 - 1.4' of qtz carb + quartz string with bi - alteration - react mica - 82.7 - 83.9 - Low acid slip - bi carb - fine py - mica - fine periphy - bi silic altered - low py - little carb - some mica - 2' mica - bi carb - alteration + 10' carb	77.0 - 80.0	2555	3.0	nil				

COMPANY: *Dunlop Mines Ltd* PROPERTY: *Forkhill* HOLE NO. *720-11*
 LATITUDE: BEARING: DIP: STARTED: COMPLETED: PAGE NO. *3*
 DEPARTURE: DRILLED BY: DEPTH:
 ELEVATION: LOCATION: LOGGED BY: *HPB*

FOOTAGE	DESCRIPTION	SAMPLE FOOTAGES	SAMPLE NO.	WIDTH FT.	ASSAY DATA				
					Gold/ton				
83.9-87.6	Diorite - very highly altered - silicified - few fine qtz. carb. spots - fair fine py	83.9-87.6	2556	3.7	nil				
87.6-90.5	Highly altered sect - dark fine grained with silicified - greyish in color								
90.5-91.2	Lamprophyre -								
91.2-93.1	Very highly altered - at 15° to core with basic diorite								
93.1-95.8	Biotite Dior - very highly altered - cut by coarse grained fair fine py	93.1-95.8	2557	2.5	nil				
95.8-97.3	Mineral Dior - highly altered - chl. int. - fair py								
97.3-98.3	Vein Material - altered Biotite Dior with 2-3% silicified - fair py	97.3-98.3	-57	1.0	.001				
98.3-102.0	Biotite Dior - fair py 101.0-102.0 - fair py with 0.3% qtz + silicified band	101.0-102.0	-59	1.1	.006				
102.0-107.5	Qtz. Vein - Mangrove? - 2.1% white vitreous qtz - plus fine qtz, apatite + chl. spots	102.0-107.5	-60	2.5	.001				
107.5-108.4	Biotite Dior - as before 105.5 - 0.2' vitreous white qtz 107.3 - 0.2' " " " still odd fair white chp	105.5-107.4	-61	2.9	nil				
108.4-110.2	Tuffe? - in places quite altered + silicified								
110.2-113.0	Vein Material - highly altered - cut by fine qtz + carb. spots and apatite alteration - scant min	110.2-113.0	-62	2.6	nil				
113.0-129.7	Tuffe - as before - low angle contact at cut 15° to core 129.7-130.7	129.7-130.7	-63	1.4	.001				
129.7-135.0	Vein Material - highly altered - by qtz + apatite alteration enclosed quartz 15° to core - scant min	129.7-135.0	-64	1.5	nil				

COMP: *DRILLING* PROPERTY: *...* HOLE NO. *50-11*
 LATIT. N: BEARING: DIP: STARTED: COMPLETED: PAGE NO. *3*
 DEPART. RE: DRILLED BY: DEPTH:
 ELEVATION: LOCATION: LOGGED BY:

FOOTAGE	DESCRIPTION	SAMPLE FOOTAGES	SAMPLE NO.	WIDTH FT.	ASSAY DATA	
					Gold/ton	
135.0	<i>Qtz Feldspar Porphyry - grey - no carb-cut by man!</i>					
	<i>carb string & calc calc. with white calc</i>					
136.0	<i>Tuff - brown - contact at cut with porphyry - 45° to core</i>					
141.0	<i>Qtz Feldspar Porphyry - as before - some hybrid phases</i>					
	<i>porphy with calc & some of white tuff - same</i>					
	<i>fine grained greyish green and dyle</i>					
	<i>-136.9 - 148.2 - highly altered - calc - cut by calc</i>					
	<i>white Qtz vein & string - some white - scant min</i>	146.9 - 148.2	2565	1.3	nil	
	<i>-160.3 - 163.4 - altered as before</i>	160.3 - 163.4	-66	3.1	nil	
	<i>-175.0 - 178.0 - hybrid phase - very highly altered -</i>					
	<i>- cut by Qtz string with a lot of white</i>	175.0 - 178.0	-67	3.0	nil	
	<i>- light green chlorite in places - scant min</i>					
	<i>-181.5 - 183.0 - highly altered - calc - cut by several</i>					
	<i>Qtz string - much white</i>	181.5 - 183.0	-66	1.5	.001	
	<i>194.9 - 196.0 - base dyle, chl. at 5° to core</i>					
250-255	<i>Amphibole - bluish alteration at end - contact</i>					
	<i>20° to core</i>					
252.5	<i>Feldspar Porphyry - as before</i>					
	<i>End of Hole</i>					
<p><i>The hole was aimed between the 1st and 2nd levels of the Monopsona and drift near the intersection with an entirely trending vein where it was said better values were obtained. We did not get the wide quartz interception that we expected from the surface exposures.</i></p> <p><i>From the amount of Qtz Feldspar Porphyry intercepted it would appear that we were not too far from a granodiorite stock.</i></p>						

- 57-71

draw N 45° E. Mag

⊙ D.D.H. D.80-11



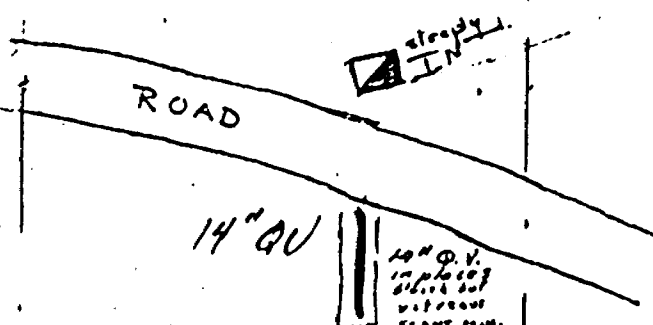
shear on footwall

AREA AROUND MARIPOSA SHAFT

1" = 40'

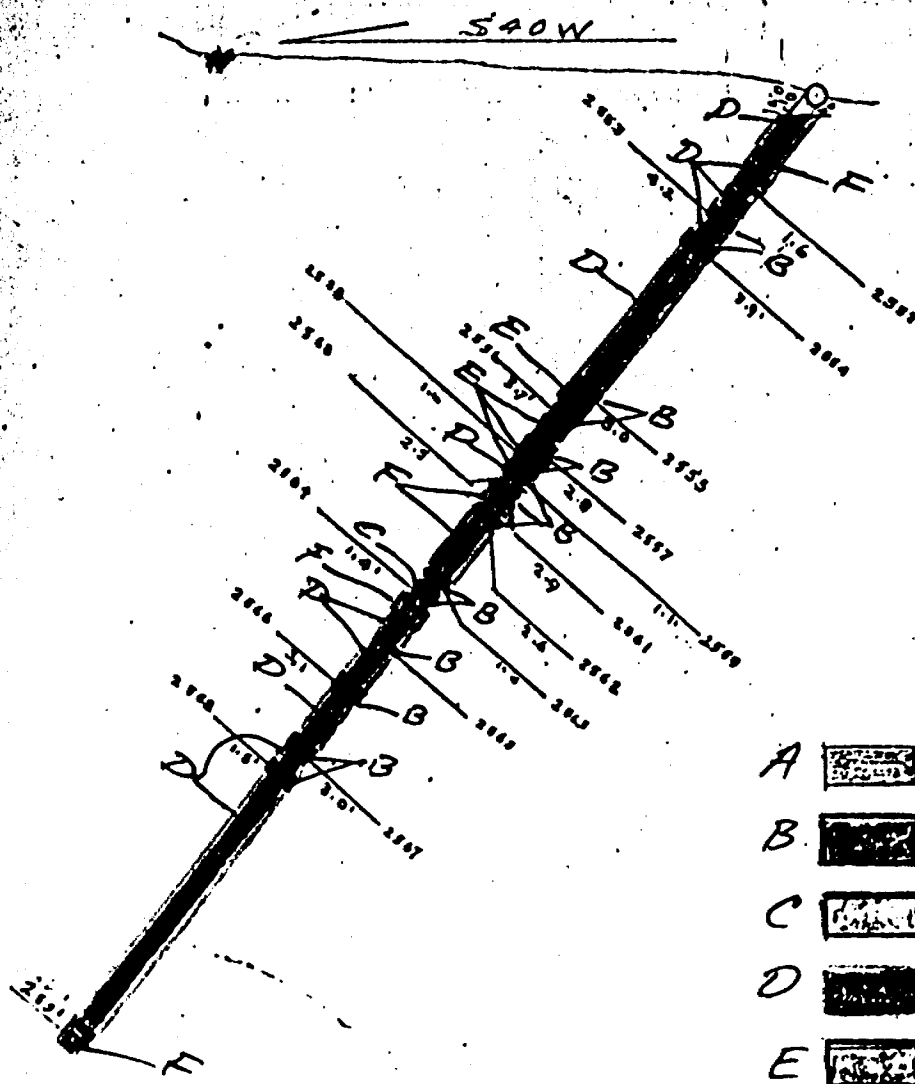
Gledhill - "208' on incline of vein"
West of the shaft the large N.W.S.E.
vein is intersected by a vein striking NE
i.e. for the a.c. of a lamprophyre dyke.

It is reported that the better
gold content was found W of the shaft
near the vein intersections




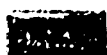




DUNRAINE MINES LIMITED
Parkhill Project
Plan D.D.H.-D.80-11
1" = 40' *St. Moody* Aug. 17/80

1" = 40'



Legend

- A  - Lamprophyre
- B  - Vein Material
- C  - Highly Altered Section
- D  - Acid Intrusive
- E  - Diorite
- F  - Tuffs

DUNRAINE MINES LIMITED
 Parkhill Project
 Sect D.D.H-D80-11
 1" = 40' *St. Xuddy* Aug 17/30

1" = 40'

DUNRAINE MINES LTD.

PROPERTY PARKHILL

HOLE NO. D-80-12

LATITUDE : 5 + 52 S	BEARING: due N	DIP: -45°	STARTED: Aug. 24/80	COMPLETED:	Page 1
DEPARTURE: 6 + 78E	V.D.	H.D.	DRILLED BY: Markstay Drilling	DEPTH:	
ELEVATION: 99.80	LOCATION:			LOGGED BY:	

FOOTAGE		SAMPLE FOOTAGES	SAMPLE No.	WIDTH FT.	Gold/Ton	ASSAY	DATA
0.0 - 6.0	Casing						
6.0 - 24.0	MAINLY TUFFS & AGGL. grey to greenish-cut to basic-quite altered-cut by many qtz. carb stringers with areas of aplite.						
	17.5-18.4 Brecciated and cut by qtz. carb. & aplitic strgs. scant min.	17.5-18.4	2598	0.9'	.001		
	19.0-19.5 - lamprophyre.						
24.0 - 33.3	ACID TUFF-cut by qtz. carb. strgs-some leaching						
33.3 - 37.4	HIGHLY ALTERED Section. hi aplite with many carb. strgs (many leached)-scant min. contact 45° to core - scant min.	33.3-37.4	2599	4.1'	.001		
37.4 - 42.5	QUARTZ VEIN-white vitreous qtz.-few carb. strgs. also aplitic strgs. some irreg. chl. areas						
	38.5-39.0 lamprophyre contact angle 50°.						
	40.5-41.6 Granodioritic blue qtz. eyes						
	37.4-40.4 - sample	37.4-40.4	3000	3.0	nil		
	40.4-42.5 " - contains granodiorite	40.4-42.5	6001	2.1	nil		
42.5 - 45.2	VEIN MATERIAL-1.0' highly altered aplitic rock-rest granodioritic silic & cut by qtz. veining (30°)-scant min.	42.5-45.2	6002	2.7	.001		
45.2 - ?	GRANODIORITE-blue eyed-qtz. & carb. strgs-with some hybrid phases and biotite diorite.						
? - 141.7	TUFFS - ACID & BASIC-some area of breccia- some usually short sections soaked by acid intrusives-cut by odd qtz. carb (biotite diorite etc.)						
(Details of logging from 141.7-186.0 totally unreadable from the material in hand)							
186.0-187.0	LAMPROPHYRE - dyke was cut at 45°						
187.0-236.4	TUFFS-as before, with carbonate stringers						
	191.0-191.1 carbonate vein - slight py. mineral.						
236.4-237.7	LAMPROPHYRE						
237.7-278.8	TUFFS - as before.						
278.8-280.1	VEIN MATERIAL - qtz. carb. vein with aplite and slight mineral also wall rock alteration-cut core at 25-30°						
		278.8-280.6	6004	1.8'	.001		
280.6-348.0	TUFFS - as before						
348.0-349.3	VEIN MATERIAL - qtz. vein with carbonate and aplitic stringers wall rock altered - slight mineral. wall rock-brecciated-tuffs-quartz, carbonate veinlets.						
		347.1-349.2	6005	2.2'	nil		

**DUPLICATE COPY
POOR QUALITY ORIGINAL
TO FOLLOW**

PROPERTY

LATITUDE :		BEARING :	DIP :	STARTED :	COMPLETED :	HOLE NO. D-80-12	
DEPARTURE :		V.D.	H.D.	DRILLED BY :		Page 2	
ELEVATION :		LOCATION :				DEPTH :	
FOOTAGE				SAMPLE FOOTAGES	SAMPLE No.	WIDTH FT.	ASSAY DATA

349.3-355.1	TUFFS - as before						
355.1-361.4	FELDSPAR PORPHYRY-fine biotite throughout-cut by quartz-carbonate stringers and veinlets 45-80°						
361.4-362.5	VEIN MATERIAL - altered siliceous zone - 0.5 inch quartz vein-sugary texture-slight py. and cpy. mineral grades back to F.P. with hybrid phase.	361.4-362.0	6006	0.6'	nil		
362.5-366.1	FELDSPAR PORPHYRY - as before						
366.1-371.5	TUFFS - as before. There also seemed to have more rounded granite fragments than earlier-polymicticfragments-conglomerates ?						
371.5-372.5	VEIN MATERIAL - quartz carbonate vein with aplitic alteration	371.5-372.5	6007	1.0'	nil		
372.5-392.8	FRAGMENTAL- TUFFS as before polymictic.						

END OF HOLE.

**DUPLICATE
POOR QUALITY OF
TO FOLLOW**

COMPANY: <i>D. J. ...</i>			PROPERTY: <i>...</i>		HOLE NO. <i>255-12</i>
LATITUDE:	BEARING:	DIP:	STARTED:	COMPLETED:	PAGE NO. <i>3</i>
DEPARTURE:	LOCATION:			DEPTH:	LOGGED BY: <i>GFI</i>
ELEVATION:				DRILLED BY:	

FOOTAGE	DESCRIPTION	SAMPLE FOOTAGES	SAMPLE NO.	WIDTH FT.	ASSAY DATA				
					Gold (ft)				
	<i>186-187 - 188 - 189 - 190 - 191 - 192 - 193 - 194 - 195 - 196 - 197 - 198 - 199 - 200 - 201 - 202 - 203 - 204 - 205 - 206 - 207 - 208 - 209 - 210 - 211 - 212 - 213 - 214 - 215 - 216 - 217 - 218 - 219 - 220 - 221 - 222 - 223 - 224 - 225 - 226 - 227 - 228 - 229 - 230 - 231 - 232 - 233 - 234 - 235 - 236 - 237 - 238 - 239 - 240 - 241 - 242 - 243 - 244 - 245 - 246 - 247 - 248 - 249 - 250 - 251 - 252 - 253 - 254 - 255 - 256 - 257 - 258 - 259 - 260 - 261 - 262 - 263 - 264 - 265 - 266 - 267 - 268 - 269 - 270 - 271 - 272 - 273 - 274 - 275 - 276 - 277 - 278 - 279 - 280 - 281 - 282 - 283 - 284 - 285 - 286 - 287 - 288 - 289 - 290 - 291 - 292 - 293 - 294 - 295 - 296 - 297 - 298 - 299 - 300 - 301 - 302 - 303 - 304 - 305 - 306 - 307 - 308 - 309 - 310 - 311 - 312 - 313 - 314 - 315 - 316 - 317 - 318 - 319 - 320 - 321 - 322 - 323 - 324 - 325 - 326 - 327 - 328 - 329 - 330 - 331 - 332 - 333 - 334 - 335 - 336 - 337 - 338 - 339 - 340 - 341 - 342 - 343 - 344 - 345 - 346 - 347 - 348 - 349 - 350 - 351 - 352 - 353 - 354 - 355 - 356 - 357 - 358 - 359 - 360 - 361 - 362 - 363 - 364 - 365 - 366 - 367 - 368 - 369 - 370 - 371 - 372 - 373 - 374 - 375 - 376 - 377 - 378 - 379 - 380 - 381 - 382 - 383 - 384 - 385 - 386 - 387 - 388 - 389 - 390 - 391 - 392 - 393 - 394 - 395 - 396 - 397 - 398 - 399 - 400 - 401 - 402 - 403 - 404 - 405 - 406 - 407 - 408 - 409 - 410 - 411 - 412 - 413 - 414 - 415 - 416 - 417 - 418 - 419 - 420 - 421 - 422 - 423 - 424 - 425 - 426 - 427 - 428 - 429 - 430 - 431 - 432 - 433 - 434 - 435 - 436 - 437 - 438 - 439 - 440 - 441 - 442 - 443 - 444 - 445 - 446 - 447 - 448 - 449 - 450 - 451 - 452 - 453 - 454 - 455 - 456 - 457 - 458 - 459 - 460 - 461 - 462 - 463 - 464 - 465 - 466 - 467 - 468 - 469 - 470 - 471 - 472 - 473 - 474 - 475 - 476 - 477 - 478 - 479 - 480 - 481 - 482 - 483 - 484 - 485 - 486 - 487 - 488 - 489 - 490 - 491 - 492 - 493 - 494 - 495 - 496 - 497 - 498 - 499 - 500 - 501 - 502 - 503 - 504 - 505 - 506 - 507 - 508 - 509 - 510 - 511 - 512 - 513 - 514 - 515 - 516 - 517 - 518 - 519 - 520 - 521 - 522 - 523 - 524 - 525 - 526 - 527 - 528 - 529 - 530 - 531 - 532 - 533 - 534 - 535 - 536 - 537 - 538 - 539 - 540 - 541 - 542 - 543 - 544 - 545 - 546 - 547 - 548 - 549 - 550 - 551 - 552 - 553 - 554 - 555 - 556 - 557 - 558 - 559 - 560 - 561 - 562 - 563 - 564 - 565 - 566 - 567 - 568 - 569 - 570 - 571 - 572 - 573 - 574 - 575 - 576 - 577 - 578 - 579 - 580 - 581 - 582 - 583 - 584 - 585 - 586 - 587 - 588 - 589 - 590 - 591 - 592 - 593 - 594 - 595 - 596 - 597 - 598 - 599 - 600 - 601 - 602 - 603 - 604 - 605 - 606 - 607 - 608 - 609 - 610 - 611 - 612 - 613 - 614 - 615 - 616 - 617 - 618 - 619 - 620 - 621 - 622 - 623 - 624 - 625 - 626 - 627 - 628 - 629 - 630 - 631 - 632 - 633 - 634 - 635 - 636 - 637 - 638 - 639 - 640 - 641 - 642 - 643 - 644 - 645 - 646 - 647 - 648 - 649 - 650 - 651 - 652 - 653 - 654 - 655 - 656 - 657 - 658 - 659 - 660 - 661 - 662 - 663 - 664 - 665 - 666 - 667 - 668 - 669 - 670 - 671 - 672 - 673 - 674 - 675 - 676 - 677 - 678 - 679 - 680 - 681 - 682 - 683 - 684 - 685 - 686 - 687 - 688 - 689 - 690 - 691 - 692 - 693 - 694 - 695 - 696 - 697 - 698 - 699 - 700 - 701 - 702 - 703 - 704 - 705 - 706 - 707 - 708 - 709 - 710 - 711 - 712 - 713 - 714 - 715 - 716 - 717 - 718 - 719 - 720 - 721 - 722 - 723 - 724 - 725 - 726 - 727 - 728 - 729 - 730 - 731 - 732 - 733 - 734 - 735 - 736 - 737 - 738 - 739 - 740 - 741 - 742 - 743 - 744 - 745 - 746 - 747 - 748 - 749 - 750 - 751 - 752 - 753 - 754 - 755 - 756 - 757 - 758 - 759 - 760 - 761 - 762 - 763 - 764 - 765 - 766 - 767 - 768 - 769 - 770 - 771 - 772 - 773 - 774 - 775 - 776 - 777 - 778 - 779 - 780 - 781 - 782 - 783 - 784 - 785 - 786 - 787 - 788 - 789 - 790 - 791 - 792 - 793 - 794 - 795 - 796 - 797 - 798 - 799 - 800 - 801 - 802 - 803 - 804 - 805 - 806 - 807 - 808 - 809 - 810 - 811 - 812 - 813 - 814 - 815 - 816 - 817 - 818 - 819 - 820 - 821 - 822 - 823 - 824 - 825 - 826 - 827 - 828 - 829 - 830 - 831 - 832 - 833 - 834 - 835 - 836 - 837 - 838 - 839 - 840 - 841 - 842 - 843 - 844 - 845 - 846 - 847 - 848 - 849 - 850 - 851 - 852 - 853 - 854 - 855 - 856 - 857 - 858 - 859 - 860 - 861 - 862 - 863 - 864 - 865 - 866 - 867 - 868 - 869 - 870 - 871 - 872 - 873 - 874 - 875 - 876 - 877 - 878 - 879 - 880 - 881 - 882 - 883 - 884 - 885 - 886 - 887 - 888 - 889 - 890 - 891 - 892 - 893 - 894 - 895 - 896 - 897 - 898 - 899 - 900 - 901 - 902 - 903 - 904 - 905 - 906 - 907 - 908 - 909 - 910 - 911 - 912 - 913 - 914 - 915 - 916 - 917 - 918 - 919 - 920 - 921 - 922 - 923 - 924 - 925 - 926 - 927 - 928 - 929 - 930 - 931 - 932 - 933 - 934 - 935 - 936 - 937 - 938 - 939 - 940 - 941 - 942 - 943 - 944 - 945 - 946 - 947 - 948 - 949 - 950 - 951 - 952 - 953 - 954 - 955 - 956 - 957 - 958 - 959 - 960 - 961 - 962 - 963 - 964 - 965 - 966 - 967 - 968 - 969 - 970 - 971 - 972 - 973 - 974 - 975 - 976 - 977 - 978 - 979 - 980 - 981 - 982 - 983 - 984 - 985 - 986 - 987 - 988 - 989 - 990 - 991 - 992 - 993 - 994 - 995 - 996 - 997 - 998 - 999 - 1000</i>								
186-187	hangrophye - dikes was cut at 45°								
187.0-196.1	Tuffs - as before with carbonate stringers - 191-191.1 carbonate vein - slight py mineral								
231.4-237.7	hangrophye								
237.7-278.8	Tuffs - as before								
278.8-290.6	Vein material - galy carb vein with apite and slight mineral - also wall rock alteration - cut core at 25-30°	278.8-290.6	6004	1.5'	.001				
290.6-348.0	Tuffs - as before								
348.0-349.7	Vein material - galy vein with carbonate and apite stringers - wall rock altered - slight mineral. - slight rock brecciated tuffs quartz carbonate inlets	348.0-349.7	6005	2.2'	nil				

Parkhill Mine **PROPERTY: Durraine Mines Ltd.** **HOLE NO. D2C-13**
LATITUDE: L 4+00 E **BEARING: True North** **DIP: -50** **STARTED: Sept 5/80** **COMPLETED: Sept 12/80**
DEPARTURE: Z+255 **V.D.** **H.D.** **DRILLED BY: Funk Diamond Drilling** **DEPTH: 446**
ELEVATION: **LOCATION: Danny Anomaly** **AXT** **LOGGED BY: Harper**

FOOTAGE	DESCRIPTION	SAMPLE FOOTAGES	SAMPLE No.	WIDTH FT.	ASSAY DATA			
					Gr	Am		
0-7	Casing							
77	Intercalated felspar porphyry, biotite gneiss & altered seds including agl phases							
82	Zone of Veinlets - fair looking qtz + much pu, py + cpy	77-80	6101	3.0	nil			
		80-82	6102	2.0	.002			
149.5	Cgl probably - may be some intruding fel per dikes 2 qtz veins + cpy + py	143.6-145	6103	1.4	nil			
151.1	Lamprophyte							
177	Cgl - lower contact gradational // post vein	160.5-161.6	6104	1.1	.004			
	" " " "	181.9-184	6105	2.1	nil			
209	Fel. Por. some intercalations							
297	Acid Flow? - Gwk? - sil dk, grey, fairly massive // 5" hungry vein + minor veining	277.2-281.2	6106	3.0	.001			
313.5	Agglom - Tuff? - green grey, fel phenocrysts, massive							
315.5	Lamp dike							
317	Aggl - Tuff as above - green - is alt? from lamp - cl1?							
403.4	Cgl - 364 & 374 - lamp dikes							
405.4	Parkhill Vein - upper contact sheared but tight. bullish qtz, low mineral mostly at walls. Footwall is the tight wall, some carb. Vein occurs in a finer sed phase of the cgl.	403.4-405.9	6107	2.0	.017			
429.3	Cgl Vein - dirty grey - 3" - heavy py + pu + cpy	424.3-424.7	6108	6.4	.002			
446	Cgl. END OF HOLE							

Parkhill Mine PROPERTY: Durrain Mine Ltd. HOLE NO. D 20-14
 LATITUDE: L 23 116 E BEARING: — DIP: Vertical STARTED: Aug 21/20 COMPLETED: Aug 25/20
 DEPARTURE: 2 + 31 N of #1 V.D. Baseline South whd H.D. at 2000' S of DRILLED BY: Funk Diamond Drilling DEPTH: 405'
 ELEVATION: LOCATION: Main Baseline Claim 462 AXT LOGGED BY: Harp...

FOOTAGE	DESCRIPTION	SAMPLE FOOTAGES	SAMPLE No.	WIDTH FT.	ASSAY DATA			
					Gn	Ag		
0-6	Casing							
30.5	Tuff - grey // 17' - water seam // Poor vein	13.5 - 15.3	6065	1.8	nil			
60	Biotite Gneiss // 40' - water seam // qtz veins + py	43 - 44.5	6066	1.5	nil			
76	Tuff - // 61' - water seam, also at 79'							
103	Altered Zone - much low temp qtz veins at 30CA							
107	Diabase - f.gr. mass.							
108.5	Altered Zone as above.							
126	Tuff - much low temp veining							
135.6	Bio Gneiss // f.gr. greenish qtz vein	131.3 - 131.4	6067	0.1	nil			
196	Silicified Zone - probably altered acid intrusive							
		135.6 - 142.1	6068	6.5	.001			
		142.1 - 147	6069	4.9	.001			
		147 - 152	6070	5.0	nil			
		152 - 157	6071	5.0	nil			
		157 - 162	6072	5.0	nil			
		162 - 168	6073	6.0	.011	- check =	.036	avg.
227.5	Tuff - minor low quality veining							
234.6	Silicified Zone	227.5 - 231	6074	3.5	nil			
		231 - 234.6	6075	3.6	nil			
305	Tuff - veining at diabase contact.	304.8 - 305.1	6076	0.3	nil			
325.5	Diabase							
371	Tuff							
391	Diabase							
405	Tuff							
END OF HOLE								

Parkhill Mine PROPERTY: Derrain Mines Ltd. HOLE NO. D 80-11
 LATITUDE: L24 E BEARING: True Nbr DIP: -75 STARTED: Aug 27/80 COMPLETED: Sept 4/80 Page 1 of 2
 DEPARTURE: 200 N of #15 V.D. H.D. DRILLED BY: Funk Diamond Drilling DEPTH: 445
 ELEVATION: LOCATION: Claim 462 AXT LOGGED BY: Harper

FOOTAGE		SAMPLE FOOTAGES	SAMPLE No.	WIDTH FT.	ASSAY DATA					
					Gr	Am				
6-3	Casing									
220.5	Altered Sds of Cgl	3.0 - 6.3	6040	3.3	nil					
	91.6 - water seams	46.7 - 48.2	6041	1.5	nil					
		55.5 - 56.3	6043	0.8	nil					
		69.2 - 69.9	6042	0.7	1002					
		90 - 95	6044	5.0	nil					
		132. - 133.7	6045	1.7	nil					
	vein + alt + cpy	205 - 207.9	6046	2.9	nil					
		207.9 - 210.2	6047	2.3	nil					
	Main Vein	210.2 - 211.4	6048	1.2	nil					
	alteration chly	211.4 - 212.9	6049	1.5	nil					
		212.9 - 216.7	6050	3.8	nil					
223.5	Lamprophyre									
232.5	Altered Sds + abundant stringers of orange qtz	222.5 - 227.5	6051	5.0	nil					
		227.5 - 232.5	6052	5.0	nil					
259	Diabase									
262	Altered Sds									
274.1	Acid Intrusive (?) - granodiorite	276.7 - 279.7	6053	1.0	nil					
		281.7 - 284.1	6062	2.4	nil					
		292.9 - 301.8	6054	2.9	nil					
307	Diabase									
307.4	Vein	307 - 307.4	6055	0.4	nil					
433	Intrusive	312 - 318	6056	6.0	nil					
	silicified	317.3 - 352.3	6057	5.0	nil					
		352.3 - 356.6	6058	4.3	nil					

Rockhill Mine **PROPERTY: Donrairie Mines Ltd.** **HOLE NO. D20-16**
LATITUDE: L 2+50 E **BEARING: N38 W** **DIP: -45** **STARTED: Sep 15/80** **COMPLETED: Sep 17/80**
DEPARTURE: 2+50 S **V.D.** **H.D.** **DRILLED BY: Markster D.D. Co Ltd** **DEPTH: 262**
ELEVATION: **LOCATION: Donny Anomaly** **BL** **LOGGED BY: Harper**

FOOTAGE	DESCRIPTION	SAMPLE FOOTAGES	SAMPLE No.	WIDTH FT.	ASSAY DATA				
					As	Am			
0-7	Casing								
32.3	Cgl - very large gr boulders - strongly metamorphosed	23.9 - 27.2	6024	3.3	nil				
	26' - water seam // Grassy Qtz Vein CA 30 py	29.6 - 31.8	6025	2.2	nil				
76	Altered Seds - f. gr. greenish cast. // Qtz Vein + magnetite	32.4 - 40.9	6026	2.5	nil				
	61-64' - strong water seam	44.2 - 48.2	6027	4.6	nil				
		57 - 59.3	6028	2.3	na				
		61.5 - 64.3	6029	2.8	nil				
		69.9 - 73.2	6030	3.3	nil				
		73.2 - 73.8	6031	0.2	nil				
		74.2 - 76.8	6032	2.6	nil				
87	Cgl // Qtz Vein CA 15	82.7 - 83.6	6033	0.9	nil				
88	Lamprophyte								
97.9	Tuff. - fgr, greenish - light xstale - massive.								
107.5	Cgl								
107.4	Qtz VEIN	107.5 - 108.4	6034	0.9	nil				
111	Lamp + well rock eff ⁿ .								
195	Cgl // Banded Qtz Vein + <u>galena</u> - CA 30	157.4 - 158	6035	0.6	nil				
		190.2 - 193.7	6036	0.9	nil				
216	Lamp dike								
262	Cgl // f. gr. qtz veinlets		6037	1.2	nil				
	END OF HOLE								

Dunfaine Mines htd. **PROPERTY: Park hill**
LATITUDE: L1+21W **BEARING: due North** **DIP: -75°** **STARTED: Sept 9/80** **COMPLETED: Sept 13/80** **HOLE NO. D80-18**
DEPARTURE: 4+705 **V.D.** **H.D.** **DRILLED BY: Markstay DD.** **LOG: B.G.** **PAGE 1 OF 1**
ELEVATION: **LOCATION:** **DEPTH: 283**
LOGGED BY: D. Gignac

FOOTAGE	DESCRIPTION	SAMPLE FOOTAGES	SAMPLE No.	WIDTH FT.	ASSAY DATA	
					Gold/ton	
0-3	Casing.					
3-51.5	Felspar Porphyry - Porphyrite -					
51.5-104	Tuff - Altered sections - Fine grained green-grey sediments.					
	63.7-64.4 - Qtz carb. aplite vein ^{slight} mineral	63.7-64.4	6077	0.7'	.001	
	77.8-80.4 - vein material - high altered, scant mineral	77.8-80.4	6078	2.6'	.001	
	105.1-105.4 - vein material - highly altered.	105.1-105.4	6079	0.8'	.001	
108-121.1	Conglomerate - some altered sections					
	109.9-110.3 - Lamp dyke					
	111 - 111.7 - Lamp dyke					
	116.6 - 118 - Lamp dyke					
121.1-139	Felspar Porphyry - Porphyrite - grading into Tuffs					
139-155	Tuffs - some altered sections					
	151.4 - 155 Lamp dyke, blue WR alteration					
155-273.1	Sediments - interbedded Tuffs + Conglomerate (Altered) in Felspar Porphyry Ground Mass					
	261.5 - 264.2 - "cave"					
	264.5-270.0 - Qtz vein v.b. Fine pyrrhop.	264.5-270.0	6080	1.8'	2.16] - combined = 1.16 1.16
	270.0-271.7 - altered sediments					
	271.7-271.8 - Qtz veinlet - fine v.b. egg shell	270.0-272.4	6081	1.4'	0.176	
273.1-279	Void ?					
279-281	Altered sediments.					
281-283	Lamprophylic dyke.					
	End of hole.					

Dunrain Mines Ltd. PROPERTY: Parkhill project Van Sickle claim F 301 HOLE NO. D50-19
 LATITUDE: 0+50N of 55 baseline BEARING: N along line DIP: -45° STARTED: Sept 25/50 COMPLETED: Sept 29/50 page 1 of 3
 DEPARTURE: L11E V.D. H.D. DRILLED BY: Markstay Dia Drillers DEPTH: 222.9
 ELEVATION: LOCATION: approx. 50' E of projection of W boundary vein, 250' S of Van Sickle Creek core size: BQ LOGGED BY: D. R. [unclear]

FOOTAGE	DESCRIPTION	SAMPLE FOOTAGES	SAMPLE No.	WIDTH FT.	ASSAY DATA	
					Gold oz. Tons	
0-5	Casing					
5-59.1	Agglomerate: poly-mictic, occasional rusty seams					
	45.6-46.0 Lamp. blue W.R. Alt.					
	52.2-52.7 Lamp dyke blue alteration					
59.1-159.3	Tuff: Fine grained green-grey, cut by many quartz carb. aplite stringers CA 45-30°					
	62.8-65.3 - Vein Material - sheared, by hanging wall, py, cpy min	62.8-65.3	6099	2.5	.002	
	63.4-63.9 - Quartz vein - Sugary Texture neg. min 30CA					
	69.0 - rusty seams.					
	72.5-72.7 - Vein Material - quartz carb aplite alteration	72.5-72.7	6100	2.5	nil	
	94.4-95.4 - Vein Material - quartz carb aplite alteration	94.4-95.4	6112	1.0'	nil	
	107.5-108.1 : Lamp.					
	113.8-114.6 - Lamp - bleached + carbonated					
	127.2-134.2 - Lamp - bleached 30CA.					
	149.3-150.7 - Vein Material - quartz carb apl. Alt.	149.3-150.7	6113	1.4'	nil	
	150.7-152.8 - Vein Material - quartz carb apl. Alt.	150.7-152.8	6114	2.1	nil	
	154.3-155.7 - Vein Mat. - sheared quartz carb apl. - neg. min.					
	155.7-157.3 - Lamp - grades into granular ss.					

Durrain Mines Ltd. PROPERTY: Parkhill Project.
 LATITUDE: L14E BEARING: Grid N DIP: -45° STARTED: Oct 13 COMPLETED: Oct 19 HOLE NO. D50-20
 DEPARTURE: 258.55 V.D. H.D. DRILLED BY: Markstay Dia. Drillers. page 1 of 1
 ELEVATION: LOCATION: Van Sickle claim #301 between Smith + Parkhill shafts. core: B.Q. DEPTH: 422.8
 LOGGED BY: J. J. Jones

FOOTAGE	SAMPLE FOOTAGES	SAMPLE No.	WIDTH FT.	ASSAY DATA			
				g/t Cu	g/t Ag	g/t Au	g/t Pt
0-5	Casing						
5-347.8	Diabase = grey-blue color with some quartz, aplite alteration. - some quartz fracture filling - Fractures at shallow C.A.						
	93.4-94.1 - Qtz aplite alteration	6167	0.7	nil			
	207.8-208.9 - Lamp dyke						
	211.4-213.8 - Highly altered section quartz + aplite stringers - obs. min.	6168	2.4	nil			
	214-214.2 - Lamp with quartz, aplite alteration						
	214.2 - Water seep						
	318.3-319.6 - Lamp - bleached (U.R.)						
	342-343.5 - Lamp						
	347.8 - contact 45°C.A.						
347.8-422.8	Agglomerate - tufts interbedded. highly altered volcanic ejecta.						
	373-392 - Lamp dyke 30°C.A. blue WR. Alt.						
	400.7-401.1 - Altered Apl. quartz stringers scant min	6169	0.9	nil			
	402 - Lamp dyke lat (1")						
	403.5-404.4 - Lamp dyke gray green - well formed biotite stals						
	409.5-410.9 - Lamp 45°C.A.						
	413.9-414.1 - Lamp						

Van Sickle Property

PROPERTY: Doroine Mines Ltd.

LATITUDE: L12 E BEARING: (T)rid North DIP: -45 STARTED: Oct 2/20 COMPLETED: Oct 3/20
 DEPARTURE: 0152 IV V.D. H.D. DRILLED BY: Markley DDC Ltd.
 ELEVATION: LOCATION: Claim 301 B.G. LOG: 246

FOOTAGE	DESCRIPTION	SAMPLE FOOTAGES	SAMPLE No.	WIDTH FT.	ASSAY		DATA
					Grain	Gravel	
0-3	Casing						
39	Tuff - dk matrix - frags up to pea size						
41	Re-cemented Gorge? pale color, massive, water seams CA 45						
151	FAULT BLOCK? - brecciated & fractured fragments 59.5-61 - fault & seams - red altered Small qtz veinlets at various angles - poor looking as above	61-66 71-72.2	6146 6147	5.0 1.2	.01 .01		
152.5	Re-cemented Gorge?						
240	Tuffs - f. gr altered - veinid in all directions b7 poor looking qtz-carb veinlets						
	No suggestion of Parkhill or N-S Boundary VEIN						
	END OF HOLE						

PROPERTY: *Langens Mine Ltd.*
 LATITUDE: *L17E* BEARING: *Grid No.* DIP: *-50°* STARTED: *Nov 2/80* COMPLETED: *Nov 5/80* HOLE NO: *1780-23*
 DEPARTURE: *2435 S4 35 B.L.* V.D. H.P. DRILLED BY: *Markstay D. D. Co. Ltd.* DEPTH: *373*
 ELEVATION: LOCATION: *Von Sicking Property* B.Q. LOGGED BY: *Harper*

FOOTAGE	DESCRIPTION	SAMPLE FOOTAGES	SAMPLE No.	WIDTH FT.	ASSAY DATA			
					Gr	Al		
0-3	Casing							
37.5	Tuff beds + intercalated thin ash beds 2" glassy qtz vein @ 24'							
	37.5 - Water Seam CA 15°							
75.5	Ash beds or thin flows - very thin tuffaceous interbeds							
98	Diabase? Diorite? dark groundmass - small feldspar xstals, massive, hard, blackish color.							
102	Lampphyre - blue alt ⁿ .							
111.5	Diabase? Diorite? - as above.							
	Qtz Cr-b vein - glassy - no mineral	105.5 - 107	6212	1.5				
120	Volcanic Flows + ash - thin beds							
167	Conglomerate - large cobbles of granite 140, 143 - minor lamp dikes Qtz-carb veins - very minor	157.6 - 158.3	6213	0.7				
305	Blue Qtz Granodiorite - massive, 1/4" grain size 125 - 2" lamp dike Qtz Vein - granular, glassy, minor mineral	210.4 - 211.2	6214	0.8				
	" " " " " py	246.1 - 247.7	6215	1.6				
	261.4 - 264 Volcanic inclusion + 1/2" glassy qtz vein							
373	Greenstone? - strongly chloritized - tuffaceous? or vesicular?							
	END OF HOLE							

Durraino Mines Ltd. **PROPERTY: Park hill** **HOLE NO. D80-2Y**
LATITUDE: L1+21W **BEARING: Due North** **DIP: -75°** **STARTED: Sept 15/80** **COMPLETED: Sept 23/80**
DEPARTURE: 5+20S **V.D.** **H.D.** **DRILLED BY: Marlestay D Drilling.** **DEPTH: 332**
ELEVATION: **LOCATION: South of trout creek, 50 ft South of D80-15.** **core size: BQ** **LOGGED BY: D.C.**

FOOTAGE	DESCRIPTION	SAMPLE FOOTAGES	SAMPLE No.	WIDTH FT.	ASSAY DATA			
					g/t Au	g/t Ag	g/t Cu	g/t Pb
0-5	Casing							
5-332	Agglomerate, tuffs - some highly altered sections (quartz carb, aplite) - interbedded agglomerate, conglomerate and green-grey tuffs.							
	41.4-42.7 - Lamp							
	77.8-79.1 - Lamp - "bleached"							
	91.5-93.1 - Vein Material - quartz carb. high alteration slight, py, py min	91.5-93.1	6090	1.6	.001			
	106.3-107.5 - Vein Material - quartz, carb, apite re alteration, schistosity in WR. ^{slight} min.	106.3-107.5	6091	1.2	nil			
	127.0-129.8 - Vein Material, highly altered - fine min. ^{slight} min.	127.0-129.8	6092	7.8	.001			
	116.8-117.4 - Lamp dyke - blue WR. Alt.							
	119.0-123.2 - Lamp with bleached WR.							
	206.7-221.3 - Lamp - bleached calc. w.R.							
	226.4-228.6 - Vein Material, blue - gray silicification, replacement?	226.4-228.6	6093	2.2	nil			
	233.1-234.7 - Lamp - (approx. one foot lost) probably ground!							
	249.5-251.4 - quartz carb, veining slight min.	249.5-251.4	6094	1.9	.005	2.60%	316.4	11.1/ft
	284.4-286.9 - Vein Material - altered quartz carbonate and apite, - slight min.	284.4-286.9	6095	2.5	.001			
	306.9-307 - Quartz vein 2 small Asks VG.	306.3-307	6096	0.7	0.33			
	307-312 - Void (probably a stone)							
	313.0-314.6 Vein Material - alteration - slight min.	313.0-314.6	6097	1.6	.001			
	315.4-316.4 Vein Material - alteration - slight min.	315.4-316.4	6098	0.5	.005			

End of hole,

Von Siehe Parents PROPERTY: Doroine Mines Ltd HOLE NO. P20-25
 LATITUDE: L12E BEARING: Grid West DIP: -45 STARTED: Oct 9/20 COMPLETED: Oct 12/20
 DEPARTURE: 1-255 V.D. H.D. DRILLED BY: Hertsley Diamond Driller Co Ltd DEPTH: 121
 ELEVATION: LOCATION: BQ LOGGED BY: Harper

FOOTAGE	Description	SAMPLE FOOTAGES	SAMPLE No.	WIDTH FT.	ASSAY DATA			
					On	As		
	Hole running near parallel to formation therefore rock tips not significant							
0-20	Casing							
91.2	Volcanic ejecta - tuffs & aggl. py, cpy minor qtz at 45 CA	40.9 - 41.4	6160	0.5	nil			
	py, cpy, pu + more qtz - good looking opt	47.7 - 48.7	6161	1.0	.002			
	silicified, minor qtz vein, pu, py cpy	90.6 - 91.8	6162	1.2	.002			
95.9	Diabase							
121	Volcanic Ejecta minor vein & sulphider as above.	95.9 - 97.1	6163	1.2	.002			
	Possibly N-S Boundary Vein	131.9 - 133	6164	1.1	nil			
		162.3 - 170.6	6165	1.8	nil			
	END OF HOLE							

DuRaine Mines Ltd. PROPERTY: Parkhill
 LATITUDE: L20W BEARING: Due North DIP: -45° STARTED: Sept 15/80 COMPLETED: Sept 22/80 HOLE NO. D80-26
 DEPARTURE: 4+8050F #1 Base V.D. H.D. DRILLED BY: H Funk De Drilling. DEPTH: 237
 ELEVATION: Line South. LOCATION: on claim #3472 staked by H.G. Harper (Assessment) core size: AXT LOGGED BY: D. Gignac

FOOTAGE	DESCRIPTION	SAMPLE FOOTAGES	SAMPLE No.	WIDTH FT.	ASSAY DATA	
					Gold OZ/TON	
0-5	Casing					
5-21.9	Biotite Dacite - Fine grained green-grey Ground Mass slight py min. throughout.					
21.9-32.2	Tuffs - some altered sections - blks of fine py cop 27.8-27.9 quartz stringer - py, cop min	26.5-28.6	6082	1.9	.005	
32.2-40.5	39.8-40.9 - Vein material - quartz	39.8-40.9	6083	1.1	nil	
40.5-67.2	Tuffs - Fine grained green-grey some biotite and flock of py min.					
	57.7-67.2 - Vein Material, highly altered	57.7-67.2	6084	9.5	nil	
	58.2-59 - quartz, calc vein, rusty seams, in places carb leached out.					
	61.7-63.1 - quartz carb vein, slight min.					
	64.5-64.7 - quartz stringer - glassy					
	65.3-66.5 - quartz vein, hull, carb stringers - some leached - 45CH.					
67.2-125.1	Biotite Dacite, (as before)					
125.1-137.5	Diorite					
137.5-201.5	Biotite Dacite					
	-142.5-143.2 - Vein mat. quartz carb. slight py cop min.	142.5-143.2	6085	0.7	nil	
	-172-177.2 - Lamp dyke					
	-177.3-178.8 - Vein mat. Alteration.	177.3-178.8	6086	1.5	nil	
	-186.5-188.3 - Vein material - Alteration	186.5-188.3	6087	1.8	nil	
	-189.4-190.9 - Quartz vein - sugartexture slight min.	189.4-190.9	6088	1.0	.001	
	-201.5-202.3 - Quartz vein - Bull.	201.5-202.3	6089	0.8	nil	
End of hole	201.5-204.7 - Lamp					

DONRAINE MINES LTD.

PROPERTY

PARKHILL PROJECT

HOLE NO. D-80-27

LATITUDE : 1 + 10 E	BEARING: Grid N	DIP: -45°	STARTED: Oct. 21/80	COMPLETED: Oct. 26/80	Page 1
DEPARTURE: 1+15N of 88 BL	V.D.	H.D.	DRILLED BY: McNight Drilling Ltd.		DEPTH: 229
ELEVATION:	LOCATION: Van Sickle claim # 301 between Parkhill and Smith shafts Core B.O.				LOGGED BY:
FOOTAGE	SAMPLE FOOTAGES	SAMPLE No.	WIDTH FT.	ASSAY DATA	
				Gold/ton	

0.0 - 6.0	Casing.				
6.0 -80.0	Agglomerate-Volcanic ejects, polymictic, angular and rounded frags-cut by qtz.carb.stringers with some altered sections.				
	31.9-36.0 -Ash? light grey to green color, some bedding.				
	67.8-69.1 -Vein Material, quartz carb,tight shear,scant py.min.	67.8-69.1	6172	1.3	.005
80.0 -131.5	TUFFS-no banding, grey to green color-cut by quartz carb. stringers, rusty seams				
	87.6-quartz carb.vein-neg.sulphide minerals-nice hematite inclusion.				
	113.7-117.3 - Lamprophyre.				
	117.3-118 Vein Material-quartz carb aplite-scant min.	117.3-118	6173	0.7	nil
	130.5-131.7-Vein material-tight shear contact tuff-quartz poph quartz-carb-aplite -scant min.	130.5-131.7	6174	1.2	.002
131.5 -157.1	QUARTZ-porphyry-blue quartz eyes-massive with occasional aplite alteration.				
	134-134.7 Alteration-aplite scant py min.	134-134.7	6175	0.7	nil
152.1 -229	AGGLOMERATE-TUFFS (As above)				
	152.6-153.9 Vein Material tight shear quartz carb-po-py. schistose W.R. min.	152.6-153.9	6176	1.3	.01
	214.1-216.2 Well mineralized section-mostly pyrite with minor amount of chalcopyrite and pyrite				
	- mineralization in blebs				
	- similar in appearance to that encountered in sample				
	611.3 from D-80-25/				
	227.8-229 Lamp.				

END OF HOLE

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TO FOLLOW

PROPERTY: Parkhill Project
 HOLE NO. D80-27
 LATITUDE: 110E BEARING: Grid N DIP: -45° STARTED: Oct 21/50 COMPLETED: Oct 26/50
 DEPARTURE: 1+15N of 85BL V.D. H.D. DRILLED BY: McNight Drilling Ltd. DEPTH: 229
 ELEVATION: LOCATION: Van Sickle claim # 301 between Parkhill and Smith shafts. core: B.Q. LOGGED BY: D.G. Mac

FOOTAGE	DESCRIPTION	SAMPLE FOOTAGES	SAMPLE No.	WIDTH FT.	ASSAY DATA	
					Gr/ft.	
0-6	Casing					
6-80.0	Agglomerate: volcanic ejecta, poly-mictic angular and rounded frags - cut by quartz carb stringers with some altered sections					
	31.9-36.0 - Ash? - light gray to cream color, some bedding					
	67.8-69.1 - Vein Material: quartz carb - tight shear, scant py min.	67.8-69.1	6172	1.3	.005	
80-131.5	Tuffs: no bedding, gray to green color cut by quartz carb stringers rusty seams					
	87.6 - quartz carb vein - green sulfide mineral - nice hematite inclusion.					
	113.7-117.3 - Lamprophyre.					
	117.3-118 - Vein Material - quartz - carb apolite - scant min.	117.3-118	6173	0.7	nil	
	130.5-131.7 - Vein Material tight shear contact tuff - quartz graph quartz - carb - apolite - scant min	130.5-131.7	6174	1.2	.002	
131.5-152.1	Quartz - porphyry - blue quartz eyes - massive with occasional apolite alteration.					
	134-134.7 - Alteration - apolite scant py min.	134-134.7	6175	0.7	nil	

LATITUDE : L 10 E	BEARING :	DIP: VERT	STARTED: Oct. 26/80	COMPLETED: Oct. 30/80	Page 1
DEPARTURE: 1 + 15 N	V.D.	H.D.	DRILLED BY: McNight Drilling Ltd.		DEPTH: 321
ELEVATION:	LOCATION: Van Sickle Claim # 301 between Smith & Parkhill shafts - core B.Q.				LOGGED BY:
FOOTAGE	SAMPLE FOOTAGES	SAMPLE No.	WIDTH FT.	ASSAY DATA	

0.0 - 4.0	Casing				
4.0 - 53.1	AGGLOMERATES-polymictic some good sized inclusions -some sections highly altered, cut by numerous quartz.carb.aplite stringers. Fine scant min. with alteration. 5.6-6.5 - Lamp dykes				
	23.0-25.8 -Alteration-quartz,carb-aplite fine py.po. throughout	23.0-25.8	6192	2.8	nil
53.1 - 78.0	TUFFS-volcanic ejects-some irregular fragments -grey green blue in color-some banding-cross bedding ?				
78.0 - 85.7	AGGLOMERATE - as above.				
85.7 - 176.9	TUFFS AS BEFORE 96.7-107.1 - Lamp dyke 110.0-112.8 Lamp dyke 112.8-128.8 highly altered tuffs many rusty seams (????????)alteration-probably caused by dyke inclusions ? 128.8-130.8 - Lamp Dyke 163.8-164.0 - Lamp dyke 173.9-175.2 - Vein material-sheared (???)qtz-carb-aplite stringers - scant min. 175.2-175.7 Bleached Lamp dyke 175.7-176.9 Quarta Vein-dirty near walls-scant sulphide min. aplite strgs.				
	173.9-175.2 - Vein material-sheared (???)qtz-carb-aplite stringers - scant min.	173.9-175.4	6193	1.5	.005
	175.2-175.7 Bleached Lamp dyke 175.7-176.9 Quarta Vein-dirty near walls-scant sulphide min. aplite strgs.	175.7-177.4	6194	1.7	.01
176.9 - 203.4	QUARTZ PORPHYRY-blue quartz eyes-some altered sections - cut by occasional quartz stringers. 177.4-178.8 Footwall of vein-altered scant min. 180.0-180.8 Altered section- 1 inch qtz. strgs.				
	177.4-178.8 Footwall of vein-altered scant min.	177.4-178.8	6195	1.4	.01
	180.0-180.8 Altered section- 1 inch qtz. strgs.	180.0-180.8	6196	0.8	.005
203.4 - 307.0	TUFFS - fine grained green grey to blue as before 218.5-219.3 Quartz Vein-aplite scant min. 278.5-279.8 Carronate vein-shallow(???) some quartz slight min. - true width= 1 inch at 270'.				
	218.5-219.3 Quartz Vein-aplite scant min.	217.9-220.2	6197	2.3	nil
307.0 - 321.0	295.6 - 296.9 Lamp dyke AGGLOMERATE AS BEFORE.				

end of hole

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TO FOLLOW**

PROPERTY: York Hill Project
 HOLE NO. 250-21
 LATITUDE: L10E BEARING: DIP: VERT. STARTED: Oct 26/60 COMPLETED: Oct 30/60
 DEPARTURE: 1+15N V.D. H.D. DRILLED BY: McVick-Drilling Ltd. DEPTH: 321
 ELEVATION: LOCATION: Van Sable claim #30; between Smith & Parkhill shafts core: B

FOOTAGE	DESCRIPTION	SAMPLE FOOTAGES	SAMPLE No.	WIDTH FT.	ASSAY DATA			
					wt%			
0-4	Casing							
4-53.1	Basaltic tuff - poly-mictic, some small siltstone inclusions - some sections - highly altered - cut by numerous quartz-carbonate plate stringers - fine sandstone with alteration. 5.6-6.5 - hard dyke 23.0-25.0 - Alternating quartz-carbonate fine grained throughout.	23.0-25.0	6192	7.5	wt			
53.1-70.0	Tuff - volcanic tuff - some massive fragments - green - blue in color - some banding - even bedded?							
70.0-76.7	Basaltic tuff - as above							
76.7-107.1	Tuff - as above 90.7-107.1 - hard dyke 107.1-112.5 - hard dyke 112.5-120.0 - highly altered tuff many parts same - 20% - 40% - 100% - altered to white - some blue alteration							
107.1-112.5	hard dyke							
112.5-144.0	hard dyke							

Dunfaine Mines Ltd. PROPERTY: Parkhill Project.
 HOLE NO. 080-31
 LATITUDE: L8E BEARING: Grid N DIP: -45° STARTED: Nov 8/80 COMPLETED: Nov 14/80 Page 1 of 1
 DEPARTURE: 2+00N of RS BL V.D. H.D. DRILLED BY: McNight Drilling Co. Ltd. DEPTH: 212.4
 ELEVATION: LOCATION: ^B Between Pkhill + Smith shafts - South + West of Deep Lk + Wharfe Rd core: BQ LOGGED BY: J.C. [unclear]

FOOTAGE	DESCRIPTION	SAMPLE FOOTAGES	SAMPLE No.	WIDTH FT.	ASSAY DATA			
					Gold	Ag	Cu	Other
0-12	Casing.							
12-212.1	Conglomerate: Agglomerate - some altered sections. - some rounded and angular frags - some biotite phases - cut by occasional quartz-carb stringers.							
83.3-85.1	Vein Mat. tight shear? paragneiss - scant fine po, py, cpy	83.3-85.1	6216	1.8	nil			
108.4-110.7	Vein Mat - quartz carb veinlet and stringers - some plite	108.4-110.7	6217	2.7	.01		- V.G.	
	Fair fine sulfide min - po-py. Tight schist, shear near hills	108.4-109.2	6218	0.8	nil			
	Fair fine sulfide min - po-py. Tight schist, shear near hills	109.2-110.0	6214	0.8	.052		V.G. sections.	
	- several fine flocks V.G.	110.0-110.7	6220	0.7	.002			
145.2-145.4	Lamp dykelet - Blue W.R. Alt.							
156.9-157.5	Lamp dyke - 45° C.A. Blue wall rock alteration.							
212.1-212.4	CLAY - Light gray - water saturated. Gauge - probable fracture fill under trout creek.							
	End of hole.							

Duncombe Mines Ltd. **PROPERTY: Parkhill Project.**
LATITUDE: L8E **BEARING: Grid N** **DIP: Vert.** **STARTED: Nov 15/80** **COMPLETED: Nov 17/80** **HOLE NO. D50-32**
DEPARTURE: 2100N of F85 BL **V.D.** **H.D.** **DRILLED BY: McNight Drilling Co. Ltd.** **DEPTH: 302**
ELEVATION: **LOCATION: Between Parkhill + Smith shaft. - South + West of Ouph 26** **core BQ** **LOGGED BY: D. G. ...**

FOOTAGE	DESCRIPTION	SAMPLE FOOTAGES	SAMPLE No.	WIDTH FT.	ASSAY DATA			
					Fe	Cu	Zn	Other
0-70	Casing							
10-33.5	TuFFs - Fine grained grey - highly altered with many Qtz - carb - Aplitic stringers.							
	19.0-24.6 - Lamp dyke 10CA highly altered Wall Rock.							
	- grades into biotite rich phases.							
33.5-62	Paragneiss? - biotite rich Acid tuFFs? some highly altered sections							
	- much silicification - 12% min.							
	57.6-60.0 Vein Material - Qtz - carb - aplitic	57.6-60.0	6221	2.4	wt			
	very highly altered - Fair min.							
	- grades into altered Conglomerate							
62-76.2	Conglomerate - some silicious and other biotite phases.							
76.2-94.2	Granodiorite - blue - Qtz eyes - massive - cut by occasional Qtz - carb stringers.							
94.2-158.8	Conglomerate - as above - cut by occasional Qtz - carb - stringers.							
	104.8-110.0 - Lamp dyke 60 ft. - blue alt.							
	139.7-141.9 - Vein Material - Qtz - carb - Aplitic alteration. - schisty Wallrock.	139.7-141.9	6222	2.7	wt			
	Negligible mineral.							
158.8-186.5	TuFFs. Fine grained grey - blue - some Aplitic Alteration.							
	- grading into conglomerate phases.							

DUNRAINE MINES LTD.

PROPERTY

PARKHILL PROJECT

HOLE NO D-80-33

LATITUDE : L 15 E	BEARING:	DIP: VERT	STARTED: Oct.29/80	COMPLETED: Oct.31/80	
DEPARTURE: 2-100S	V.D.	H.D.	DRILLED BY: Markstay Dia. Drillers		DEPTH: 363
ELEVATION:	LOCATION: Van Sickle claim # 301-Smith Vein at depth below Smith's second level				LOGGED BY: D.G.
FOOTAGE		SAMPLE FOOTAGES	SAMPLE No.	WIDTH FT.	ASSAY DATA
					Gold/ton

0.0 - 7.0	Casing				
7.0 - 36.5	TUFFS-fine grained-green to grey in colour - some silicification and aplite alteration - cut by quartz carb. stringers.				
14.1 - 25.3	SILICEOUS zone - some aplitic alteration - fine py-po min. throughout	14.1-20.5	6178	6.4'	nil
98.0-98.5	QUARTZ VEINLET-45 CA, reg. min. some carb & aplite	98.0-98.5	6179	0.5	nil
118.2-120.3	QUARTZ VEIN -good looking some aplite fine py. po. min (119.4 - 4 inch vein ?)	118.0-120.5	6180	2.5	nil
124.7-127.4	Tight shear? - quartz carb stringers @45 CA	124.7-127.4	6182	2.7	nil
140.1-140.5	Quartz stringer-slight min.	140.1-140.5	6181	0.4	nil
150.3-152.1	Lamp Dyke - 30 CA				
158.8-159.5	Lamp Dyke				
168.6-169.3	Vein material - quartz carb. veinlets in tight shear-siltstone ? W.R. scant min.	168.6-169.3	6183	0.7	nil
176.0-176.4	Vein material-quartz carb some biotite-scant min.	176.6-176.9	6184	0.9	nil
186.5-186.9	Quartz carb. vein good looking WR scant min.	186.1-187.4	6185	1.3	nil
194.5	Alteration-quartz aplite some py.po mineral	193.9-195.1	6186	1.7	.005
198.8-199.5	Lamp Dyke 30 CA				
203.5-205.3	Lamp Dyke				
210.3-210.6	Quartz carb vein-highly altered-some fine min.	209.5-211.6	6187	2.1	nil
248.0-248.1	Quartz Vein dirty slight mineral-good looking (probably part of vein of Smith vein down dip)	247.5-249.4	6188	2.4	.002
279.9-281.2	Tight shear-quartz-carb stringers-scant min.	279.9-281.2	6189	1.5	nil
		293.0-296.1	6190	3.1	.005
312.0 - 1"	quartz stringer				
325.3-325.6	Quartz vein carb.aplite-scant min. 45CA	324.5-326.3	6191	1.8	nil

END OF HOLE.

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TO FOLLOW**

Dunrain Mines Lt.: PROPERTY: Parkhill Project. HOLE NO D80-33
 LATITUDE: L15E BEARING: DIP: VERT. STARTED: Oct 29/80 COMPLETED: Oct 31/80 page 1 of 2
 DEPARTURE: 2-1005 V.D. H.D. DRILLED BY: Markstay Dia. Drillers DEPTH: 363
 ELEVATION: LOCATION: Van Sickle claim #301 - Smith vein at depth below Smith's second level LOGGED BY: D.G.

FOOTAGE	DESCRIPTION	SAMPLE FOOTAGES	SAMPLE No.	WIDTH FT.	ASSAY DATA	
					Gold/ton	
0-7	Casing					
7-36.5	Tuffs - Fine grained - green to grey in color - some silicification and aplitic alteration - cut by quartz-carb stringers					
	14.1-25.3 Silicious zone some aplitic alteration - Fine py-po min. throughout	14.1-20.5	6178	6.4'	NIL	
	98-98.5 Quartz veinlet - 45 CA - neg. min some carb + aphte.	98.0-98.5	6179	0.5	NIL	
	118.2-120.3 - Quartz vein - good looking some aphte - Fine py po min. (119.4 - 4 inch vein?)	118.0-120.5	6180	2.5	NIL	
	124.7-127.4 - Tight shear? - quartz carb stringers at 45 CA	124.7-127.4	6182	2.7	NIL	
	140.1-140.5 - Quartz stringer - slight min.	140.1-140.5	6181	0.4	NIL	
	150.3-152.1 - Lamp dyke - 30 CA					
	158.8-159.5 - Lamp dyke					
	168.6-164.3 Vein Material - quartz-carb veinlets in tight shear - sil. stone? WR - scant min	168.6-169.3	6183	0.7	NIL	
	176-176.4 - Vein Material - quartz carb some biotite - scant mineral	176.6-176.9	6184	0.9	NIL	
	186.5-186.9 - Quartz - carb Vein good looking WR - scant min	186.1-187.4	6185	1.3	NIL	

PROPERTY:					HOLE NO. D80-33
LATITUDE:	BEARING:	DIP:	STARTED:	COMPLETED:	page 2 of 2
DEPARTURE:	V.D.	H.D.	DRILLED BY:		DEPTH:
ELEVATION:	LOCATION:				LOGGED BY:

FOOTAGE	DESCRIPTION	SAMPLE FOOTAGES	SAMPLE No.	WIDTH FT.	ASSAY DATA				
					Gold/ton				
194.5 - 198.4	Alteration - quartz imp. to some py. mineral	193.9 - 195.1	6186	1.2	.005				
198.4 - 202.5	Laminar 30' CR.								
202.5 - 205.3	Laminar dyle								
210.3 - 210.6	Quartz carb vein highly altered - some fine mineral	209.5 - 211.6	6187	2.1	nil				
240 - 245.1	Quartz vein dirty slight mineral - good looking Laminar alteration of quartz vein down dip	247.5 - 249.8	6188	2.4	.002				
279.9 - 281.2	Tuff Shear - quartz - carb staining - some min.	279.4 - 281.2	6189	1.5	nil				
293.0 - 297.1		293.0 - 297.1	6190	3.1	.005				
312 - 313	1" quartz stringer								
325.3 - 325.6	Quartz vein carb mineral some min. 01504	324.5 - 326.3	6191	1.5	nil				
End of hole.									

PROPERTY:

ALTITUDE :	BEARING:	DIP:	STARTED:	COMPLETED:	HOLE NO. D80-34 page 2 of 2
DEPARTURE:	V.D.	H.D.	DRILLED BY:	DEPTH:	
ELEVATION:	LOCATION:			LOGGED BY:	

FOOTAGE	DESCRIPTION	SAMPLE FOOTAGES	SAMPLE No.	WIDTH FT.	ASSAY DATA			
					Grav	Vol	Wt	Wt
232.5-233.3	Lamp dyke.							
233.3-234	schisty quartz carb stringers Fine min.	233.3-234	6207	0.7	.002			
234-241	<u>Void</u> - probably second level workings - Smith Mine -							
241-242.5	schisty sheared quartz carb stringers - Fine min.	241-242.5	6208	1.5	ml			
242.8-266.9	Agglomerate - as before -							
266.4-268.2	Ash? - green in color - some bedding (handing)							
268.2-298.4	Agglomerate - as before -							
277-279.5	<u>Altered vein material</u> quartz carb vein from 278.1-278.5 some min.	277.0-279.5	6707	2.5	ml			
	- Fair py - po - cop min in W.R.							
280.8-282.2	Tight shear? quartz carb - white - good sulfide min.	280.8-282.2	6210	1.4	ml			
298.8-312.5	Tuffs: dark blue color - cut by numerous quartz carbonate stringers							
	End of hole.							

Dunrainie Mines Ltd. PROPERTY: Parkhill Project.
 LATITUDE: L 17 E BEARING: - DIP: Vert. STARTED: Nov 7/80 COMPLETED: Nov 13/80 HOLE NO. D80-35
 DEPARTURE: 2+005 of 85 BL V.D. H.D. DRILLED BY: Markstay Diamond Drillers page 1 of 2
 ELEVATION: LOCATION: Below second level Smith Mine on rake East of shaft, core B.C. DEPTH: 353
 LOGGED BY: D.G.

FOOTAGE	DESCRIPTION	SAMPLE FOOTAGES	SAMPLE No.	WIDTH FT.	ASSAY DATA			
					Grain/ton			
0-5	Casing							
5-24.8	Granodiorite: blue gtz eyes - several rusty seams - some gtz carb stringers.							
24.8-50.5	Tuffs: Fine grained gray-green - cut by occasional gtz-carb stringers at 45 CA. - some altered sections - grading into conglomerate.							
50.5-56.7	Conglomerate: - biotite phases - some alteration and rusty seams							
56.7-72.8	Granodiorite - as before -							
72.8-81.2	Tuffs - Ash? green to black grading to blue gray cut by several small lamp dikes - blue W.R. alteration resulting.							
81.2-232.8	- Granodiorite - as before - 162.2 - 164.7 - Lamp dikes - shallow CA. 165.6 - 170.3 - Lamp dike 174.7 - 178.9 - Lamp dikes 185 - 185.8 - hanging wall Q.V. schisty W.R. gtz - scant mineral 185.8 - 186.4 - Quartz Vein - scant mineral 186.4 - 187.0 - Footwall QV 215.8 - 216.6 - Black banded Ash? non magnetic - many carb stringers							
		155-155.8	6228	0.5	.002			
		155.8-186.4	6229	0.6	.05			
		186.4-187.0	6230	0.6	.002			
		215.8-216.6	6231	0.5	nil			

Duncaine Mines Ltd. PROPERTY: Parkhill Project. HOLE NO. D80-37
 LATITUDE: L 8 East. BEARING: DIP: vert. STARTED: Nov 17/80 COMPLETED: Nov 20/80 page 1 of 2
 DEPARTURE: 4000 on 85 B.L. V.D. H.D. DRILLED BY: Markstay Diamond Drillers DEPTH: 559
 ELEVATION: LOCATION: Van Sickle claim #301 between Pkhill + Smith shafts. case B. Q LOGGED BY: D. Lague

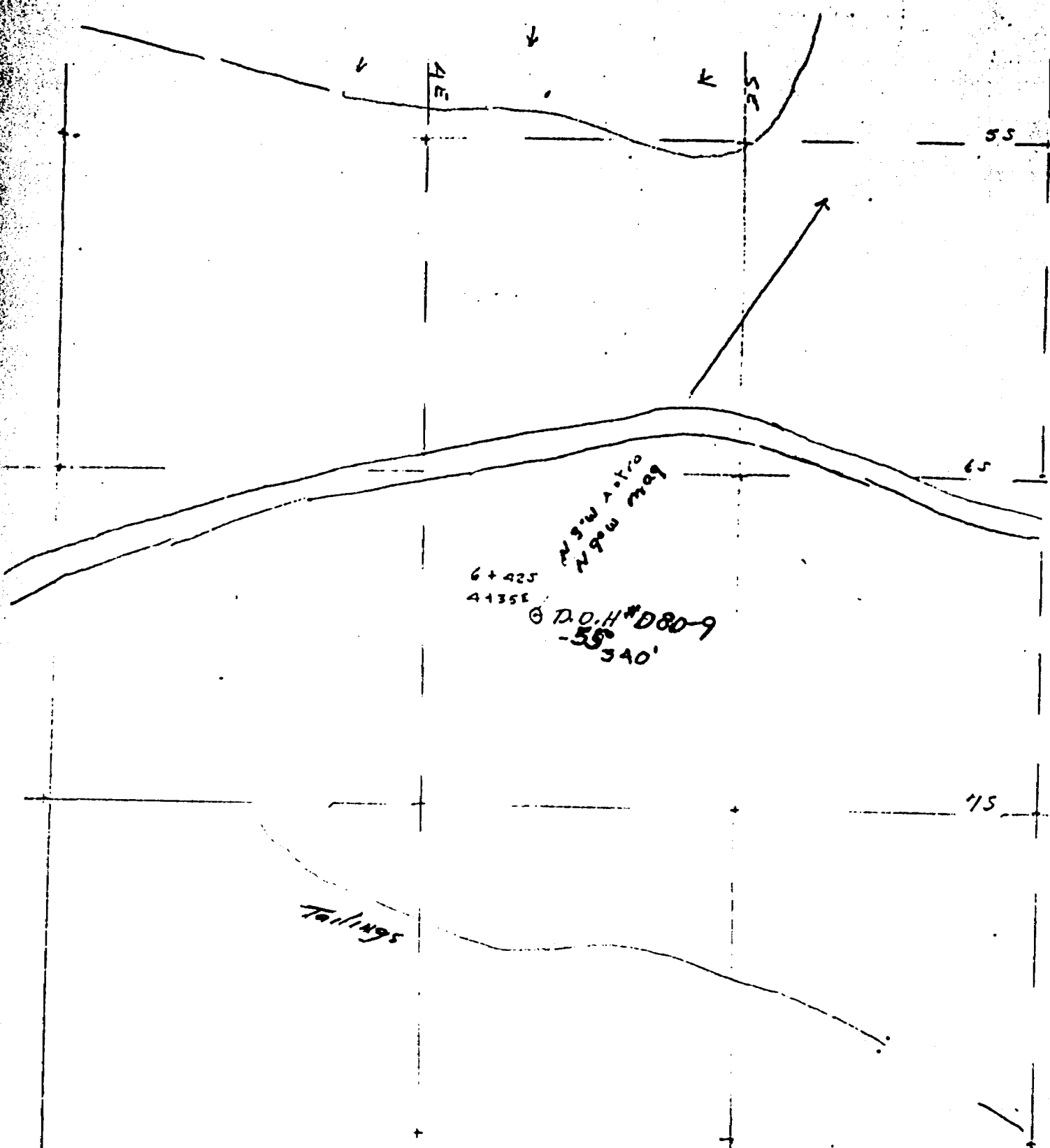
FOOTAGE	DESCRIPTION	SAMPLE FOOTAGES	SAMPLE No.	WIDTH FT.	ASSAY DATA				
					Grav	Vol	Grav	Vol	Grav
0-5	Casing								
5-524	Conglomerate - some biotite phases grey-green with granitic to basic frags. - interbedded with green grey tuffs 120-124.4 - core was ground. 134.5-165 - Altered silicious biotite rich section. 141.9-143.3 - Vein Material - qtz - carb aplite - tight shear? - schistosity - some biotite rich sections scant min 163.6-165.0 - Quartz vein 45 CA. Milky white glassy - big blobs of po - py min aplite along walls. 251.8-252.3 - Quartz-carb vein Vuggy - - well formed qtz - calcite xtls. 342-342.8 - Quartz vein glassy - 30 CA scant mineral 353.8-354.6 - Quartz vein 45 CA - glassy scant mineral 375.5-376.7 - Vein Material - qtz - aplite Alteration - fair fine mineral 401-403 - Lamp dyke 45 CA.								
		141.9-143.3	6234	1.4'	nil				
		163.6-165.0	6235	1.4'	nil				
		342-342.8	6236	0.8	nil				
		353.8-354.6	6237	0.8	nil				
		375.5-376.7	6238	1.2	.002				

Parvane Mines Ltd. PROPERTY: Parkhill Project. HOLE NO. DSO-39
 LATITUDE: 137100E BEARING: Grid West DIP: -40° STARTED: Nov 22/80 COMPLETED: Nov 22/80 Page 1 of 1
 DEPARTURE: 10N T12 Line V.D. H.D. DRILLED BY: Markstay Diamond Drillers DEPTH: 100. FT.
 ELEVATION: LOCATION: Van Sickle claim # 377 - intersect - Wilcox vein at depth - core BQ. LOGGED BY: D. Siga.

FOOTAGE	SAMPLE FOOTAGES	SAMPLE No.	WIDTH FT.	ASSAY DATA			
				Gold/ton			
0-10	CASING						
10-100	TUFFS - green-grey some alteration mainly from unusual amount of lamp intrusions						
	18.1-21.4 - Lamp dyke very shallow (A).						
	41.5-47 - Lamp dyke						
	48.1-48.5	6239	0.6	nil			
	Quartz vein shallow angle to lamp dyke which is wall rock.						
	60.5-61.1	6240	0.6	nil			
	Quartz vein some carb + Aplite 3 cent min.						
	97-100 - Lamp dyke						
	End of hole						

Dunrain Mines Ltd PROPERTY: Parkhill Project. HOLE NO. D80-40
 LATITUDE: L37+00 E BEARING: Grid West DIP: -60° STARTED: Nov 23/80 COMPLETED: Nov 23/80 page 1 of 1
 DEPARTURE: 10 N Tie Line V.D. H.D. DRILLED BY: Markstay Diamond Drillers DEPTH: 105
 ELEVATION: LOCATION: Van Sickle claim #377 to intersect Wilcox Vein at depth. core: B Q LOGGED BY: D. G. Guay

FOOTAGE	DESCRIPTION	SAMPLE FOOTAGES	SAMPLE No.	WIDTH FT.	ASSAY		DATA	
					Gr/Fe			
0-5	Casing.							
5-69	Tuffs: grey-blue - fine grains - some altered sections - some qtz carb stringers 32-33 Lamp dyke 45 CA. 49-54.6 - Lamp dyke 30 CA.							
69-70.7	Granodiorite? - blue qtz eyes - biotite rich sections.							
70.2-70.7	- soft chlorite gouge with glassy qtz stringer - broken up.							
70.7-74	Quartz Vein - good looking carb. ap. - sulfides - mostly fine potpy - some blobs tourmaline?	70.6-74.6	6241	4'	nil			
70.7-87	Tuffs - as before							
87-105	Fine grained greenstone Fkw. Full of tiny pyrite cubes, 1/8 inch diam. or less							
	End of hole							

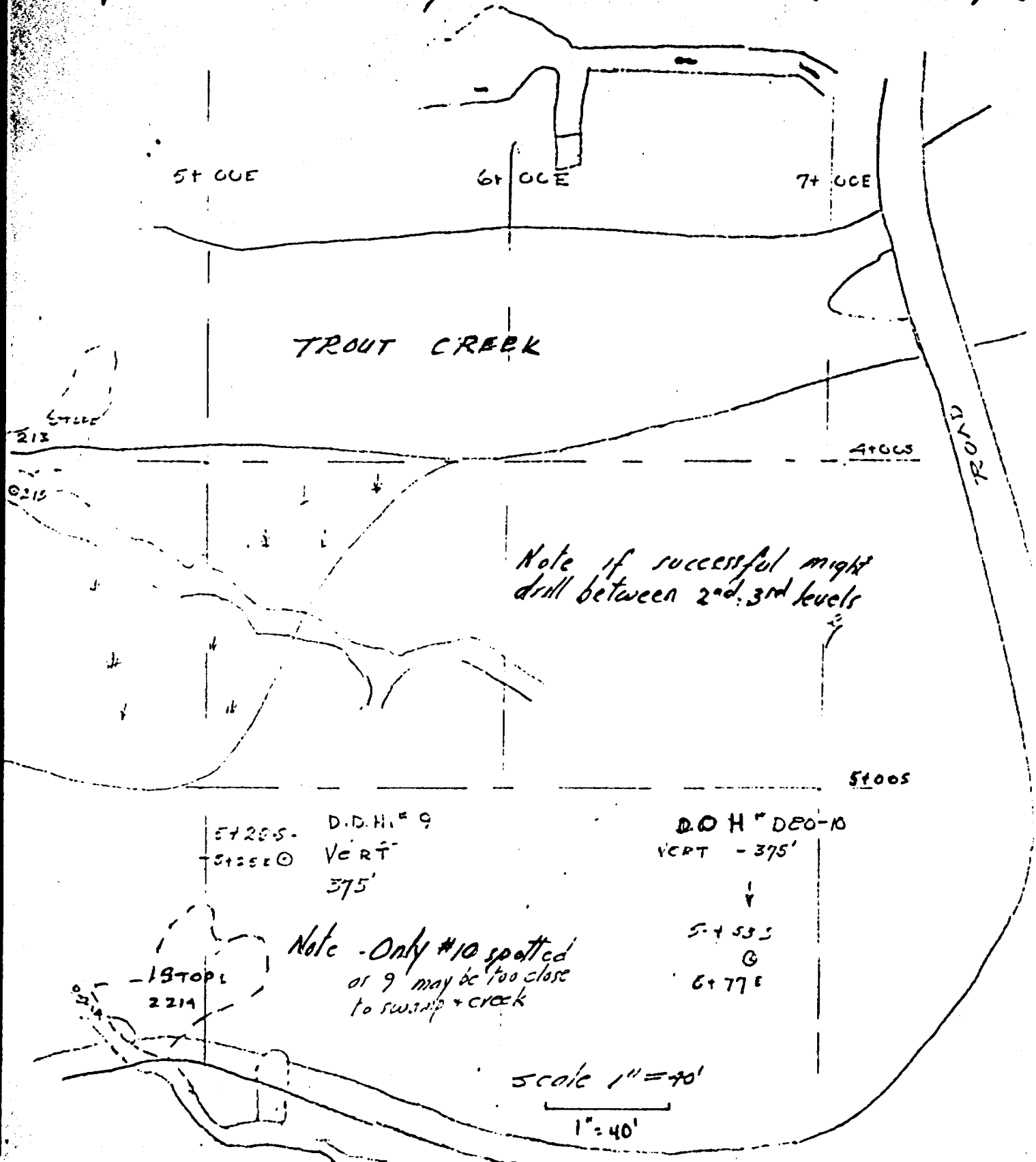


6+425
 4135E
 D.D.H. # D80-9
 -55° 340'

Duraine Mines Ltd.
 Layout D.D.H. D80-9
 1" = 40' L.E.M. Aug 11/50

1" = 40'

Layout D.D.H.'s # 9 & 10 - D80-9910
 South of Creek to investigate area above slope 2214
 and to pick up, if there - continuation of vein east of
 slope 213 - down rake from vein between lines 6 & 7100 ± on surface



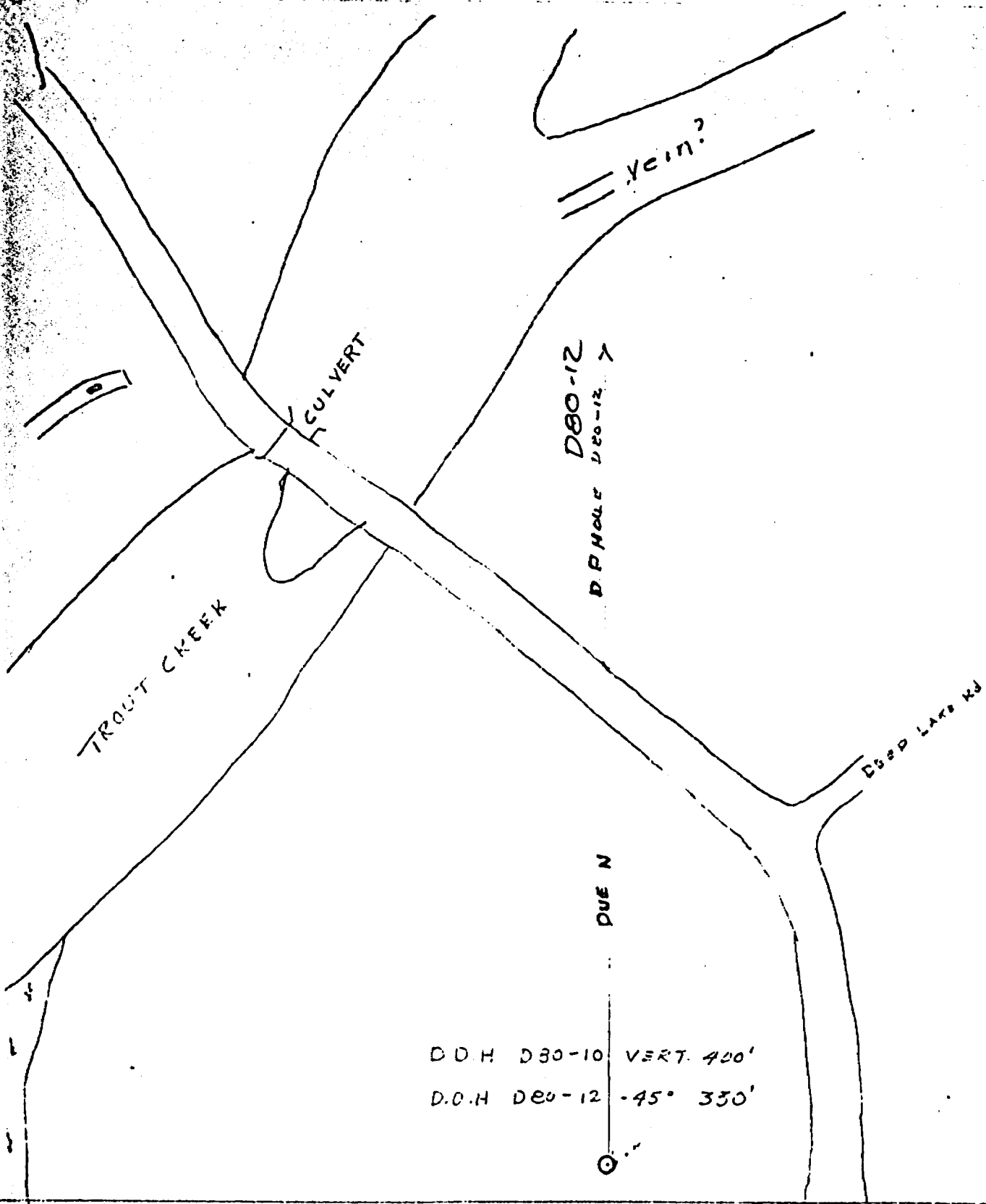
Note if successful might
 drill between 2nd, 3rd levels

D.D.H. # 9
 VERT - 375'

D.D.H. # 10
 VERT - 375'

Note - Only #10 spotted
 as #9 may be too close
 to swamp & creek

Scale 1" = 40'



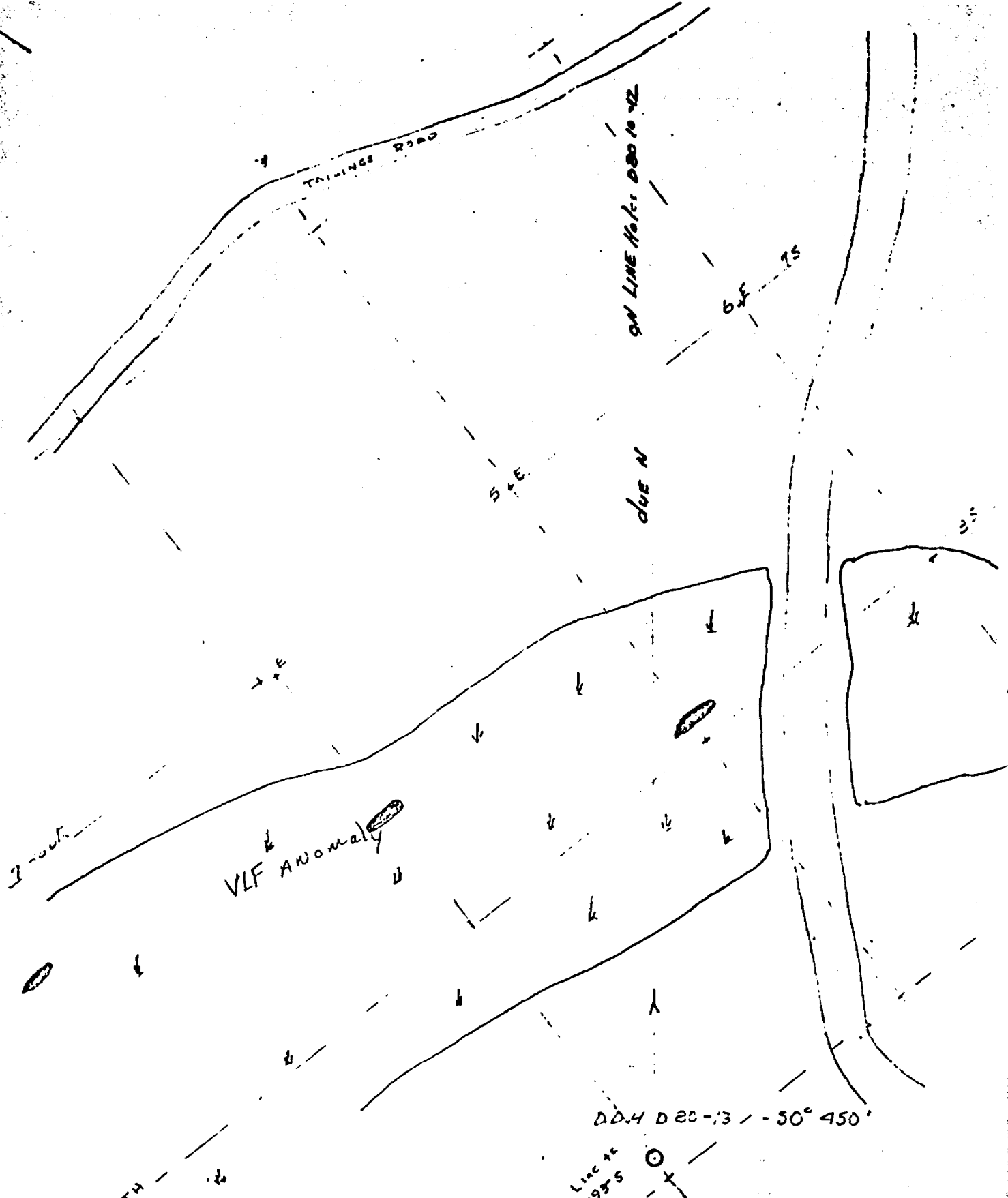
D.D.H. D30-10 VERT. 400'
 D.D.H. D20-12 -45° 330'

PLAN

DUNRAINE MINES LTD.
 LAYOUT D.D.H.'S D20-10+12
 1"=40' AETI, AUG. 14/80

TAILINGS PD.

1"=40'



DUNRAINE MINES LTD.
 PION D.D.H. D8-13
 1" = 40' S.S. Aug. 17/80

1" = 40'



SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE: (705) 642-3244
ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

Certificate No. 49810 Date: Aug. 11, 1980
Received Aug. 1, 1980 72 Samples of Tailings
Submitted by Dunraine Mines Ltd., Wawa, Ont.

SAMPLE NO.	GOLD Oz./ton	SILVER Oz./ton	SAMPLE NO.	GOLD Oz./ton	SILVER Oz./ton
3105	0.046		3123	0.007	
3106	0.046		3124	0.017	NIL
3107	0.022		3125	0.010	
3108	0.022		3126	0.012	
3109	0.031	NIL	3127	0.012	
3110	0.016		3128	0.024	
3111	0.023		3129	0.009	0.005
3112	0.022		3130	0.017	
3113	0.008		3131	0.023	
3114	0.012	NIL	3132	0.021	
3115	0.014		3133	0.020	
3116	0.017		3134	0.021	NIL
3117	0.031		3135	0.019	
3118	0.021		3136	0.021	
3119	0.012	0.01	3137	0.018	
3120	0.019		3138	0.011	
3121	0.009		3139	0.018	Trace
3122	0.010		3140	0.012	

con't.....

Per G. Lebel
G. Lebel, Manager



.....2
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ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

Certificate No. 49810 Date: Aug.11, 1980
Received Aug.1, 1980 72 Samples of Tailings
Submitted by Dunrains Mines Ltd., Wawa Ont.

SAMPLE NO.	GOLD Oz./ton	SILVER Oz./ton	SAMPLE NO.	GOLD Oz./ton	SILVER Oz./ton
3141	0.042		3159	0.019	0.02
3142	0.055		3160	0.011	
3143	0.060		3161	0.010	
3144	0.023	0.02	3162	0.034	
3145	0.022		3163	0.030	
3146	0.064		3164	0.010	0.01
3147	0.023		3165	0.011	
3148	0.020		3166	0.011	
3149	0.034	0.03	3167	0.012	
3150	0.033		3168	0.018	NIL
3151	0.022		3169	0.009	
3152	0.023		3170	0.010	
3153	0.013		3171	0.010	
3154	0.021	0.01	3172	0.008	
3155	0.019		3173	0.007	
3156	0.018		3174	0.014	Trace
3157	0.040		3175	0.018	
3158	0.037		3176	0.012	

Per G. Lebel
G. Lebel, Manager





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Certificate of Analysis

Certificate No. 49852

Date: Aug. 14, 1980

Received Aug. 8, 1980 61 Samples of Tailings

Submitted by Dunraine Mines Ltd., Wawa, Ont. For: G. Moody

SAMPLE NO.	GOLD Oz./ton	SAMPLE NO.	GOLD Oz./ton
1001	0.014	1032	0.010
1002	0.031	1033	0.031
1003	0.022	1034	0.020
1004	0.032	1035	0.036
1005	0.019	1036	0.021
1006	0.031	1037	0.018.
1007	0.023	3177	0.012
1008	0.029	3178	0.009
1009	0.039	3179	0.016
1010	0.058	3180	0.008
1011	0.037	3181	0.033
1012	0.047	3182	0.021
1013	0.028	3183	0.010
1014	0.028	3184	0.014
1015	0.032	3185	0.034
1016	0.040	3186	0.026
1017	0.056	3187	0.011
1018	0.015	3188	0.009
1019	0.051	3189	0.082
1020	0.031	3190	0.092
1021	0.032	3191	0.049
1022	0.047	3192	0.053
1023	0.034	3193	0.036
1024	0.013	3194	0.030
1025	0.019	3195	0.014
1026	0.031	3196	0.009
1027	0.017	3197	0.047
1028	0.036	3198	0.061
1029	0.024	3199	0.012
1030	0.029	3200	0.019
1031	0.019		

Per J. Van Engelen, MCIC

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Certificate of Analysis

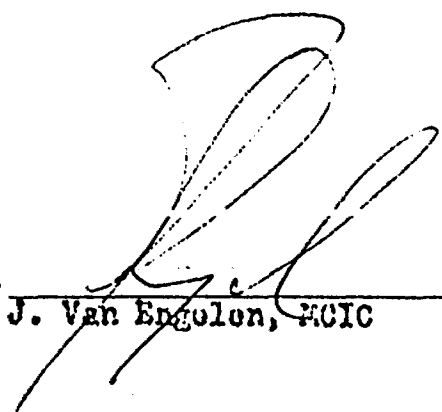
Certificate No. 49875

Date: Aug. 15, 1980

Received Aug. 8, 1980 13 Samples of Split core

Submitted by Dunraino Mines Ltd., Wawa, Ont. Per: G.S. Moody

SAMPLE NO.	GOLD Oz./ton
2501	0.003
2502	NIL
2503	0.007
2504	0.001
2505	0.011
2506	0.025
2507	0.002
2508	NIL
2509	0.002
2510	NIL
2511	NIL
2512	NIL
2513	NIL

Per 
J. Van Engelen, MCIC

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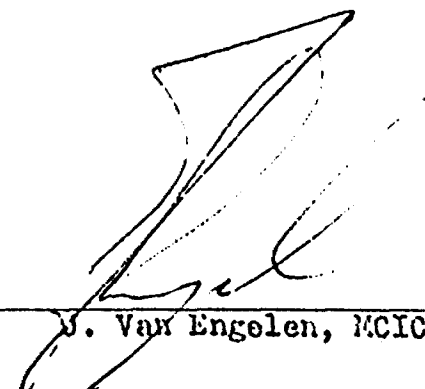
Certificate No. 49891

Date: Aug. 21, 1980

Received Aug. 14, 1980 40 Samples of Tailings

Submitted by Dunraine Mines Ltd., Wawa, Ontario Per: G.E. Moody

SAMPLE NO.	GOLD Oz./ton	SAMPLE NO.	GOLD Oz./ton
1038	0.030	1058	0.011
1039	0.010	1059	0.019
1040	0.046	1060	0.027
1041	0.041	1061	0.009
1042	0.025	1062	0.006
1043	0.030	1063	0.008
1044	0.024	1064	0.041
1045	0.041	1065	0.015
1046	0.028	1066	0.027
1047	0.025	1067	0.013
1048	0.020	1068	0.003
1049	0.039	1069	0.035
1050	0.020	1070	0.026
1051	0.028	1071	0.024
1052	0.024	1072	0.027
1053	0.101	1073	0.031
1054	0.033	1074	0.027
1055	0.020	1075	0.028
1056	0.021	1076	0.027
1057	0.049	1077	0.008

Per  J. Van Engelen, MCIC

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Certificate of Analysis

Certificate No. 49899

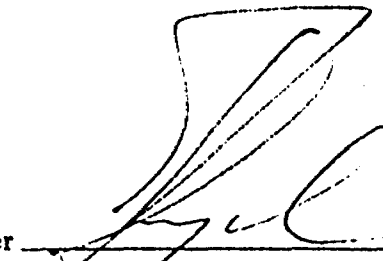
Date: Aug. 22, 1980

Received Aug. 14, 1980 35 Samples of Split core & core

Submitted by Dunreine Mines Ltd., Wawa, Ont. Per: G.E. Moody

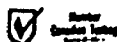
SAMPLE NO.	GOLD Oz./ton	SAMPLE NO.	GOLD Oz./ton	SILVER Oz./ton
2514	0.001	2532	0.001	
2515	NIL	2533	NIL	
2516	0.001	2534	NIL	
2517	0.001	2535	NIL	
2518	0.002	2536	NIL	
2519	NIL	2537	NIL	
2520	NIL	2538	0.001	
2521	0.001	2539	NIL	
2522	NIL	2540	NIL	
2523	0.001	2541	NIL	NIL
2524	NIL	2542	NIL	
2525	0.001	2543	NIL	
2526	0.020	2544	NIL	
2527	NIL	2545	0.001	
2528	0.001	2546	0.003	
2529	0.001	3001	1.31	
2530	NIL	3002	0.447	
2531	0.001			

*Surface
File*

Per 

J. Van Engelen, M.C.I.C.

ESTABLISHED 1928





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Certificate of Analysis

Certificate No. 49907

Date: Aug. 21, 1980

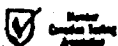
Received Aug. 15, 1980 20 Samples of Split core & surface SL.

Submitted by Dunraino Mines Ltd., Wawa, Ont. Per: G.E. Moody

SAMPLE NO.	GOLD Oz./ton
2547	NIL
2548	NIL
2549	NIL
2550	NIL
2551	NIL
3003	0.036
3004	0.030
3005	0.010
3006	0.021
3007	0.035
3008	0.030
3009	0.017
3010	0.016
3011	0.045
3012	0.030
3013	0.037
3014	0.032
3015	0.027
3016	0.043
3017	0.034

Per 
J. Van Engelen, MCIC

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TELEPHONE: (705) 642-3244

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Certificate of Analysis

Certificate No. 19266

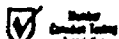
Date: Aug. 28, 1980

Received Aug. 18, 1980 22 Samples of split core and tailings

Submitted by Dunraina Mines Ltd., Lewis, Ont. Per: G.S. Moody

SAMPLE NO.	GOLD Oz./ton	SILVER Oz./ton
2556	NIL	
2565	NIL	
3020	0.012	
3024	0.014	
3034	0.031	
3035	0.015	
3037	0.019	
3040	0.045	
3042	0.034	
3043	0.029	
3045	0.019	
3046	0.016	
3047	0.011	
3048	0.021	
3049	0.012	
3053	0.019	
3054	0.013	
3055	0.021	
3056	0.013	
3058	0.010	
3059	0.010	
3060	0.025	
3061	0.032	
3062	0.018	
3063	0.022	
3065	0.016	
3066	0.024	0.49
1st NO. ¹	0.014	
2nd NO. ²	0.022	

Per G. Label
G. Label, Manager





SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0

TELEPHONE: (705) 642-3244

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

Certificate No. 49969

Date: Sept. 3, 1980

Received Aug. 21, 1980

66

Samples of split core & tailings

Submitted by Dunraino Mines Ltd., Wawa, Ont. Per: G.E. Moody

SAMPLE NO.	GOLD Oz./ton	SILVER Oz./ton	COPPER %	SAMPLE NO.	GOLD Oz./ton
2552	0.001			2589	NIL
2553	0.001			2590	NIL
2554	NIL			2591	NIL
2555	NIL			2592	NIL
2557	NIL			2593	NIL
2558	0.001			2594	0.005
2559	0.006			2595	NIL
2560	0.001			2596	0.001
2561	NIL			2597	NIL
2562	NIL			3018	0.011
2563	0.001			3019	0.003
2564	NIL			3021	0.020
2566	NIL			3022	0.045
2567	NIL			3023	0.026
2568	0.001			3025	0.020
2569	NIL			3026	0.035
2570	0.004			3027	0.036
2571	0.002			3028	0.025
2572	NIL			3029	0.029
2573	0.001			3030	0.013
2574	0.001			3031	0.015
2575	0.001			3032	0.017
2576	0.001			3033	0.026
2577	0.001			3036	0.043
2578	NIL			3038	0.013
2579	NIL			3039	0.019
2580	0.001			3041	0.022
2581	0.007			3044	0.003
2582	NIL			3050	0.015
2583	0.029	0.05	0.31	3051	0.029
2584	0.019	NIL	0.03	3052	0.017
2585	0.001				
2586	NIL				
2587	0.001				
2588	NIL				

Per G. Lebel, Manager



ESTABLISHED 1928



SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0

TELEPHONE: (705) 642-3244

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

Certificate No. 50021

Date: Sept. 15, 1980

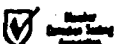
Received Aug. 28, 1980 13 Samples of split core & ore

Submitted by Dunraino Mines Ltd., Wawa, Ont. Per: G.E. Moody

SAMPLE NO.	GOLD Oz./ton	SILVER Oz./ton	COPPER %	LEAD %
2598	0.001			
2599	0.001			
2600	NIL			
6001	NIL			
6002	0.001			
6003	NIL			
6004	0.001			
6005	NIL			
6006	NIL			
6007	NIL			
3067	0.42	2.25	0.01	3.60
3068	0.12	0.75	0.02	1.38
3069	0.011	NIL	0.01	0.02

Per *G. Lebel*
G. Lebel, Manager

ESTABLISHED 1928





SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0

TELEPHONE: (705) 642-3244

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

Certificate No. 50110

Date: Sept. 19, 1980

Received Sept. 8, 1980 17 Samples of ore

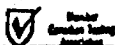
Submitted by Durraine Mines Ltd., Wawa, Ont. Per: D. Gienac

SAMPLE NO.	GOLD Oz./ton
------------	-----------------

30704 <i>S.H.C.</i>	0.44
6008	0.057
6009	0.001
6010	NIL
6011	0.002
6012	0.011
6013	0.001
6014	NIL
6015	0.001
6016	NIL
6017	NIL
6018	0.001
6019	0.057
6020	0.008
6021*	0.199
6022	0.001
6023	NIL

Per G. Lebel
G. Lebel, Manager

ESTABLISHED 1928





SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO POK 1T0

TELEPHONE: (705) 642-3244

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

Certificate No. 50169

Date: September 26 1980

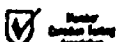
Received Sept. 19/80 63 Samples of Whole Core & Split Core

Submitted by Dunrains Mines Ltd., Wawa, Ontario Per: D. Gignac

SAMPLE NO.	GOLD Oz./ton	SAMPLE NO.	GOLD Oz./ton
6024	N11	6056	N11
6025	N11	6057	N11
6026	N11	6058	N11
6027	N11	6059	0.002
6028	N11	6060	0.005
6029	N11	6061	0.004
6030	N11	6062	N11
6031	N11	6063	N11
6032	N11	6064	N11
6033	N11	6065	N11
6034	N11	6066	N11
6035	N11	6067	N11
6036	N11	6068	0.001
6037	N11	6069	0.001
6038	N11	6070	N11
6039	N11	6071	N11
6040	N11	6072	N11
6041	N11	6073	0.011
6042	0.002	6074	N11
6043	N11	6075	N11
6044	N11	6076	N11
6045	N11	101	N11
6046	N11	6102	0.002
6047	N11	6103	N11
6048	N11	6104	0.004
6049	N11	6105	N11
6050	N11	6106	0.001
6051	N11	6107	0.017
6052	N11	6108	0.002
6053	N11	6109	0.064
6054	N11	6110	0.029
6055	N11		

Per G. Lebel
G. Lebel - Manager

ESTABLISHED 1928





SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0

TELEPHONE: (705) 642-3244

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

Certificate No. 50174

Date: SEPT. 24, 1980

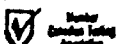
Received Sept. 19 3 Samples of split core

Submitted by Dunrobin Mines Ltd., Uawa, Ont. Per: G.J. Moody

SAMPLE NO.	GOLD Oz./ton
6077	0.001
6078	0.001
6079	0.001

Per G. Lebel
G. Lebel, Manager

ESTABLISHED 1928





SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0

TELEPHONE: (705) 642-3244

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

Certificate No. 50178

Date: September 26 1980

Received Sept. 15/80 4 Samples of Tailings

Submitted by Dunrairie Mines Ltd., Hawa, Ontario Per: D. Gignac

SAMPLE NO.

GOLD
Oz./ton

6111

0.60

3071

0.033

3072

0.022

3073

0.020

Per G. Lebel

G. Lebel - Manager

ESTABLISHED 1928





SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0

TELEPHONE: (705) 642-3244

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

Certificate No. 50270

Date: Oct. 8, 1980

Received Oct. 1, 1980 15 Samples of split core

Submitted by Dunraine Mines Ltd., Wawa, Ontario

SAMPLE NO.	GOLD Oz./ton
6082	0.005
6083	NIL
6084	NIL
6085	NIL
6086	NIL
6087	NIL
6088	0.001
6089	NIL
6090	0.001
6091	NIL
6092	0.001
6093	NIL
6094	0.005
6095	0.001
6097	0.001

Per G. Lebel
G. Lebel, Manager

ESTABLISHED 1928





SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO POK 1T0

TELEPHONE: (705) 642-3244

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

Certificate No. 50349

Date: Oct. 21, 1980

Received Oct. 14, 1980 39 Samples of split core, whole core & ore

Submitted by Dunraino Mines Limited, Wawa, Ontario

SAMPLE NO.	GOLD Oz./ton	SAMPLE NO.	GOLD Oz./ton
6099	NIL	6130	NIL
6100	NIL	6131	0.005
6112	NIL	6132	NIL
6113	NIL	6133	0.002
6114	NIL	6134	0.02
6115	0.002	6135	NIL
6116	NIL	6136	NIL
6117	0.005	6137	NIL
6118	0.02	6138	0.002
6119	NIL	6139	0.002
6120	0.01	6140	see note below
6121	0.03	6141	0.005
6122	0.02	6142	NIL
6123	0.002	6143	NIL
6124	0.01	6144	0.01
6125	NIL	6145	0.02
6126	NIL	6146	0.01
6127	0.01	6147	0.01
6128	0.005	3074	NIL
6129	NIL		

NOTE: sample #6140 was done by pulp and metallic method.

Gold from pulp portion--0.31
0.30 0.30 average
0.29

Weight of gold in metallic portion
0.02 mg.

Sample weight 340g

Metallic correction 0.002 oz./ton

Final result--0.302 gold oz./ton

Per G. Lebel
G. Lebel, Manager





SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO POK 1T0

TELEPHONE: (705) 642-3244

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

Certificate No. 50361

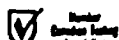
Date: Oct. 21, 1980

Received Oct. 14, 1980 22 Samples of whole core and ore

Submitted by Dunreine Mines Ltd., Wawa, Ontario Per: G.E. Moody

SAMPLE NO.	GOLD Oz./ton
6148	0.005
6149	0.002
6150	0.002
6151	0.13
6152	0.002
6153	0.002
6154	NIL
6155	0.002
6156	0.005
6157	NIL
6158	NIL
6159	0.002
6160	NIL
6161	0.002
6162	0.002
6163	0.002
6164	NIL
6165	NIL
6201	0.23
6202	0.005
6203	0.002
6204	0.005

Per G. Lebel
G. Lebel, Manager





SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0

TELEPHONE: (705) 642-3244

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

Certificate No. 50362

Date: Oct. 22, 1980

Received _____ 1 Samples of pulp from previous assay

Submitted by Dunraine Mines Ltd., Wawa, Ont.

SAMPLE NO.	GOLD Oz./ton
6073	<u>0.01</u> NIL
	NIL
	<u>0.005</u>
	<u>0.06</u>

NOTE: The above sample was assayed several times with results as shown. This seems to indicate the presence of small amount of free gold.

Per G. Lebel
G. Lebel, Manager



SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0

TELEPHONE: (705) 642-3244

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

Certificate No. 50515

Date: Nov. 13, 1980

Received Nov. 5, 1980

41

Samples of ore and split core

Submitted by Dunraine Mines Ltd., Vava, Ontario

Per: D. Oignao

SAMPLE NO.	GOLD Oz./ton	SAMPLE NO.	GOLD Oz./ton
6166	NIL	6187	NIL
6167	NIL	6188	0.002
6168	NIL	6189	NIL
6169	NIL	6190	0.005
6170	0.27	6191	NIL
6171	0.02	6192	NIL
6172	0.005	6193	0.005
6173	NIL	6194	0.01
6174	0.002	6195	0.01
6175	NIL	6196	0.005
6176	0.01	6197	NIL
6177	NIL	6198	NIL
6178	NIL	6199	0.002
6179	NIL	6200	NIL
6180	NIL	6205	NIL
6181	NIL	6206	NIL
6182	NIL	6207	0.002
6183	NIL	6208	NIL
6184	NIL	6209	NIL
6185	NIL	6210	NIL
6186	0.005		

Per

G. Label, Manager

ESTABLISHED 1928





SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0

TELEPHONE: (705) 642-3244

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

Certificate No. 50515

Date: Nov. 13, 1980

Received Nov. 5, 1980 41 Samples of ore and split core

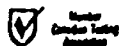
Submitted by Dunraine Mines Ltd., Wawa, Ontario Per: D. Gignac

SAMPLE NO.	GOLD Oz./ton	SAMPLE NO.	GOLD Oz./ton
6166	NIL	6187	NIL
6167	NIL	6188	0.002
6168	NIL	6189	NIL
6169	NIL	6190	0.005
6170	0.27	6191	NIL
6171	0.02	6192	NIL
6172	0.005	6193	0.005
6173	NIL	6194	0.01
6174	0.002	6195	0.01
6175	NIL	6196	0.005
6176	0.01	6197	NIL
6177	NIL	6198	NIL
6178	NIL	6199	0.002
6179	NIL	6200	NIL
6180	NIL	6205	NIL
6181	NIL	6206	NIL
6182	NIL	6207	0.002
6183	NIL	6208	NIL
6184	NIL	6209	NIL
6185	NIL	6210	NIL
6186	0.005		

Per G. Lebel

G. Lebel, Manager

ESTABLISHED 1928





SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0

TELEPHONE: (705) 642-3244

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

Certificate No. 50628-A

Date: December 5 1980

Received _____ Samples of _____

Submitted by Dunraine Mines Ltd., Wawa, Ontario Per: D. Gignac

<u>SAMPLE NO.</u>	Results from Individual Assays	Result Reported
3801	0.12 0.11	0.12
6229	0.06 0.045 0.045	0.05

Note: We are enclosing the results from check assays done on sample 3801 and 6229 as per Mr. D. Gignac's instructions.

Per _____

G. Lebel
G. Lebel - Manager

ESTABLISHED 1928





SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0

TELEPHONE: (705) 642-3244

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

Certificate No. 50628

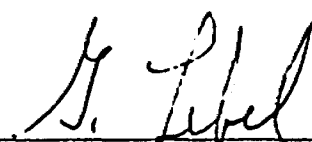
Date: Dec. 3, 1980

Received Nov. 26, 1980 34 Samples of split core

Submitted by Dunraine Mines Limited, Wawa, Ontario Per: D. Gignac

SAMPLE NO.	GOLD Oz./ton	SAMPLE NO.	GOLD Oz./ton
3801	0.12	6225	NIL
3802	0.002	6226	NIL
3803	NIL	6227	NIL
6211	0.002	6228	0.002
6212	NIL	6229	0.05
6213	NIL	6230	0.002
6214	0.01	6231	NIL
6215	0.005	6232	0.02
6216	NIL	6233	NIL
6217	0.01	6234	NIL
6218	NIL	6235	NIL
6219	0.052	6236	NIL
6220	0.002	6237	NIL
6221	NIL	6238	0.002
6222	NIL	6239	NIL
6223	NIL	6240	NIL
6224	NIL	6241	NIL

NOTE: Sample number 6219 was done by the pulp and metallic technique. The metallic portion calculated to 0.05 oz./ton and did not change the final result.

Per 
G. Lebel, Manager

ESTABLISHED 1928





SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO POK 1T0

TELEPHONE: (705) 642-3244

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

Certificate No. 50628

Date: Dec. 3, 1980

Received Nov. 26, 1980 34 Samples of split core

Submitted by Dunraine Mines Limited, Wawa, Ontario Per: D. Gignac

SAMPLE NO.	GOLD Oz./ton	SAMPLE NO.	GOLD Oz./ton
3801	0.12	6225	NIL
3802	0.002	6226	NIL
3803	NIL	6227	NIL
6211	0.002	6228	0.002
6212	NIL	6229	0.05
6213	NIL	6230	0.002
6214	0.01	6231	NIL
6215	0.005	6232	0.02
6216	NIL	6233	NIL
6217	0.01	6234	NIL
6218	NIL	6235	NIL
6219	0.052	6236	NIL
6220	0.002	6237	NIL
6221	NIL	6238	0.002
6222	NIL	6239	NIL
6223	NIL	6240	NIL
6224	NIL	6241	NIL

NOTE: Sample number 6219 was done by the pulp and metallic technique. The metallic portion calculated to 0.05 oz./ton and did not change the final result.

Per G. Lebel
G. Lebel, Manager

ESTABLISHED 1928





SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO POK 1T0

TELEPHONE: (705) 642-3244

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

Certificate No. 50670

Date: December 11 1980

Received Dec. 4/80 3 Samples of Split Core

Submitted by Dunraine Mines Ltd., Toronto, Ontario Per: D. Gignac

SAMPLE NO.	GOLD Oz./ton
6242	Nil
6243	Nil
6244	Nil

Per *G. Lebel*
G. Lebel - Manager

ESTABLISHED 1928



X-RAY ASSAY LABORATORIES LIMITED - DUNRAINE MINES LTD. - Report 8576

<u>Sample</u>	<u>Au oz/ton-100</u>	<u>Au oz/ton-100</u>	<u>Au oz/ton-100</u>	<u>Mg au+100</u>	<u>Wgt-100</u>	<u>Wgt+100</u>	<u>Au oz/ton Adjusted</u>	<u>Ag oz/ton-100</u>
6080-A	2.86	2.58	2.67	0.292	127.05	5.08	2.70	0.29
6080-B	1.75	1.82	1.98	0.168	146.31	3.58	1.85	T
6080-C	1.88	1.90	2.03	0.324	256.80	7.78	1.94	0.20
6081-A	0.16	0.22	0.20	0.06	143.04	8.28	0.18	T
6081-B	0.20	0.21	0.21	0.024	126.74	2.38	0.21	T
6081-C	0.14	0.14	0.14	0.031	216.51	5.98	0.14	T

Nov. 11, 1980

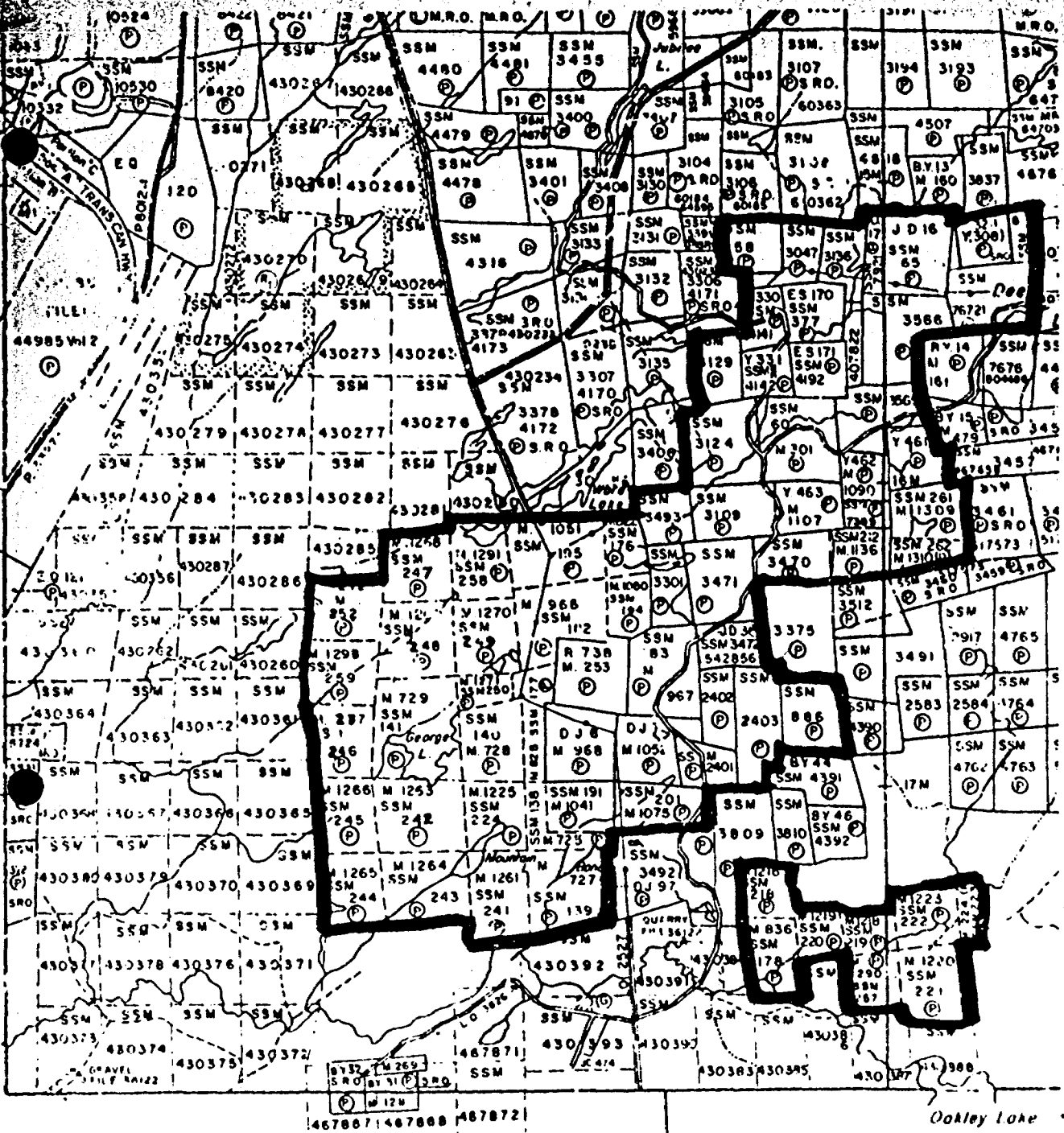
<u>Sample</u>	<u>Au oz/ton-100</u>	<u>Au oz/ton+100</u>	<u>Mg Au+100</u>	<u>Wgt-100</u>	<u>Wgt+100</u>	<u>Adjusted Au oz/ton</u>
6096-A	0.30	0.21	0.042	62.08 gm	5.80	0.28
2096-B	0.30	0.37	0.028	52.98 gm	2.23	0.30
6096-C	0.44	0.20	0.031	63.68 gm	4.42	0.42
6098-A	0.04	0.06	0.003	84.98 gm	1.50	0.04
6098-B	0.12	0.25	0.016	40.48 gm	1.84	0.12
6098-C	0.05	0.07	0.005	58.68 gm	2.21	0.05

X-RAY ASSAY LABORATORIES LIMITED
1885 Leslie Street
Don Mills, Ontario
M3B 3J4

41N15NE0054 McMURRAY41 McMURRAY



900



DUNRAINE MINES LTD

LOCATION MAP

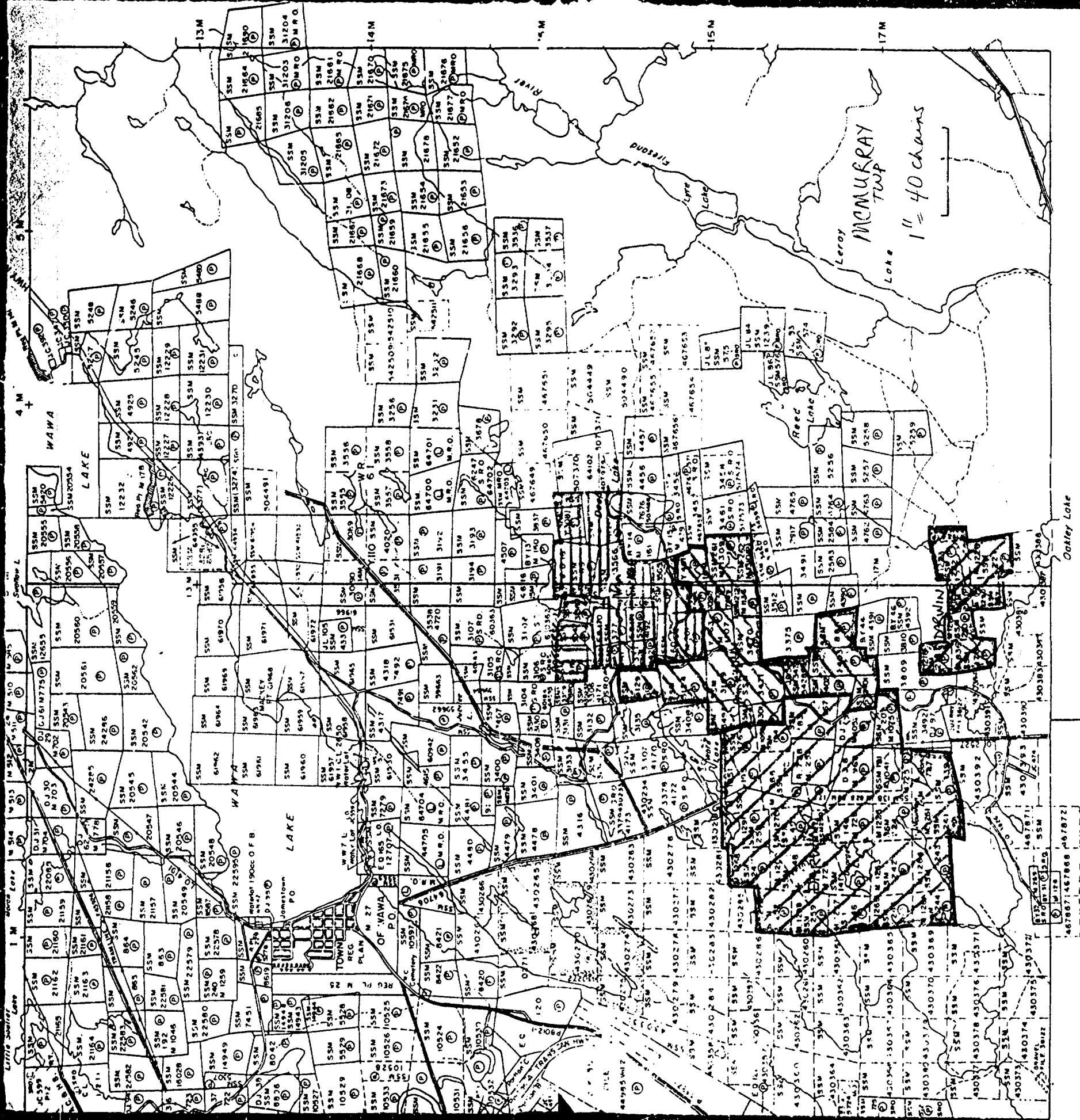
Traced From
CLAIM MAP PLAN No. M1547
McMURRAY TWP.

1" = 2640'
1 inch = 2640 feet

JAN 5 1981



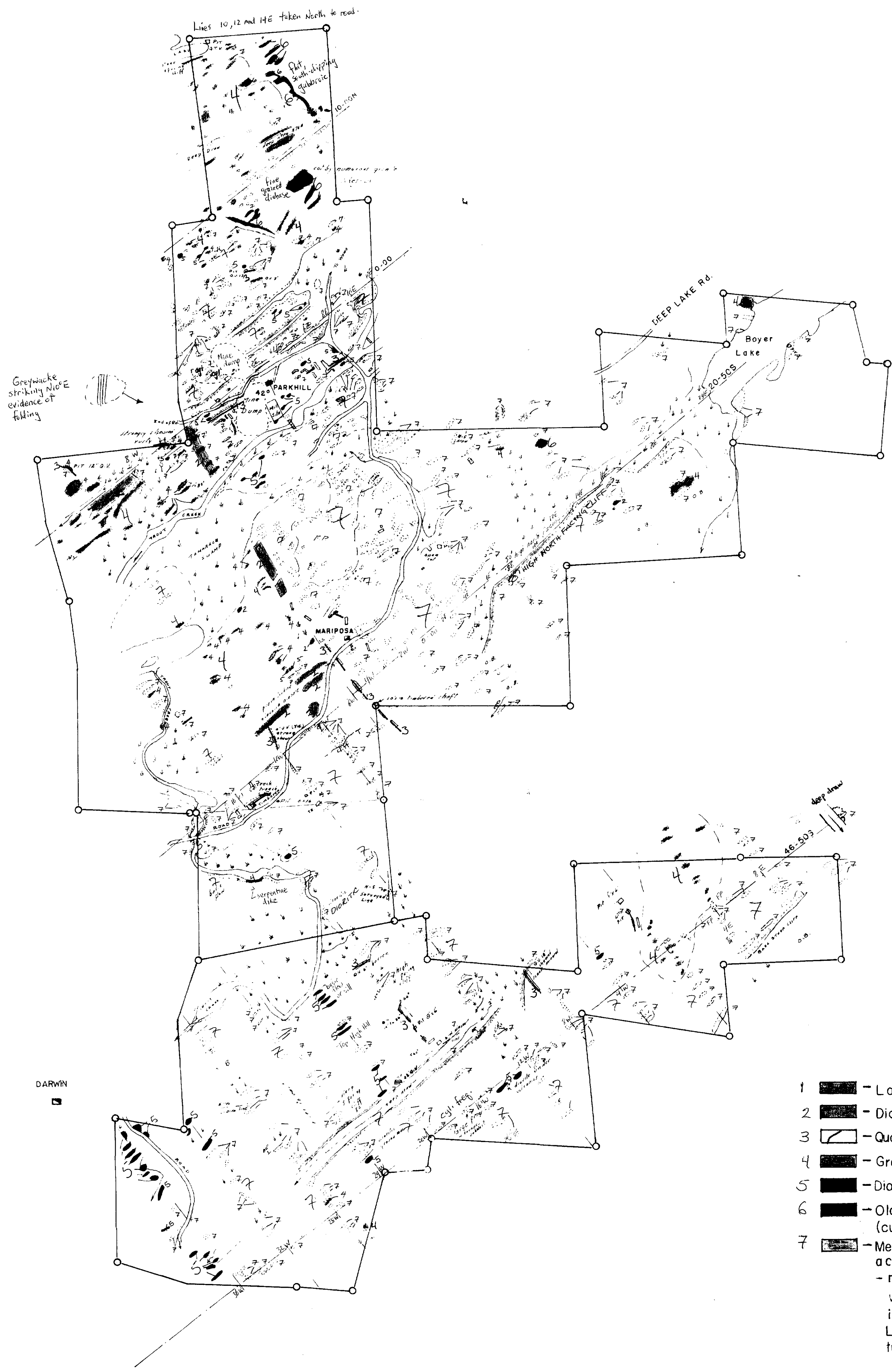
H. C. Harper



RABAZO T.P.
(M. 1556)

DUNRAINE MINES LTD.

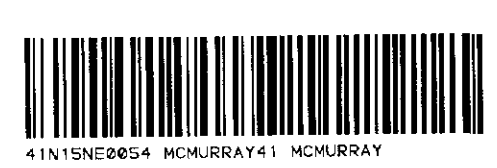
NAVEAU T.P.
(M. 1546)



Legend

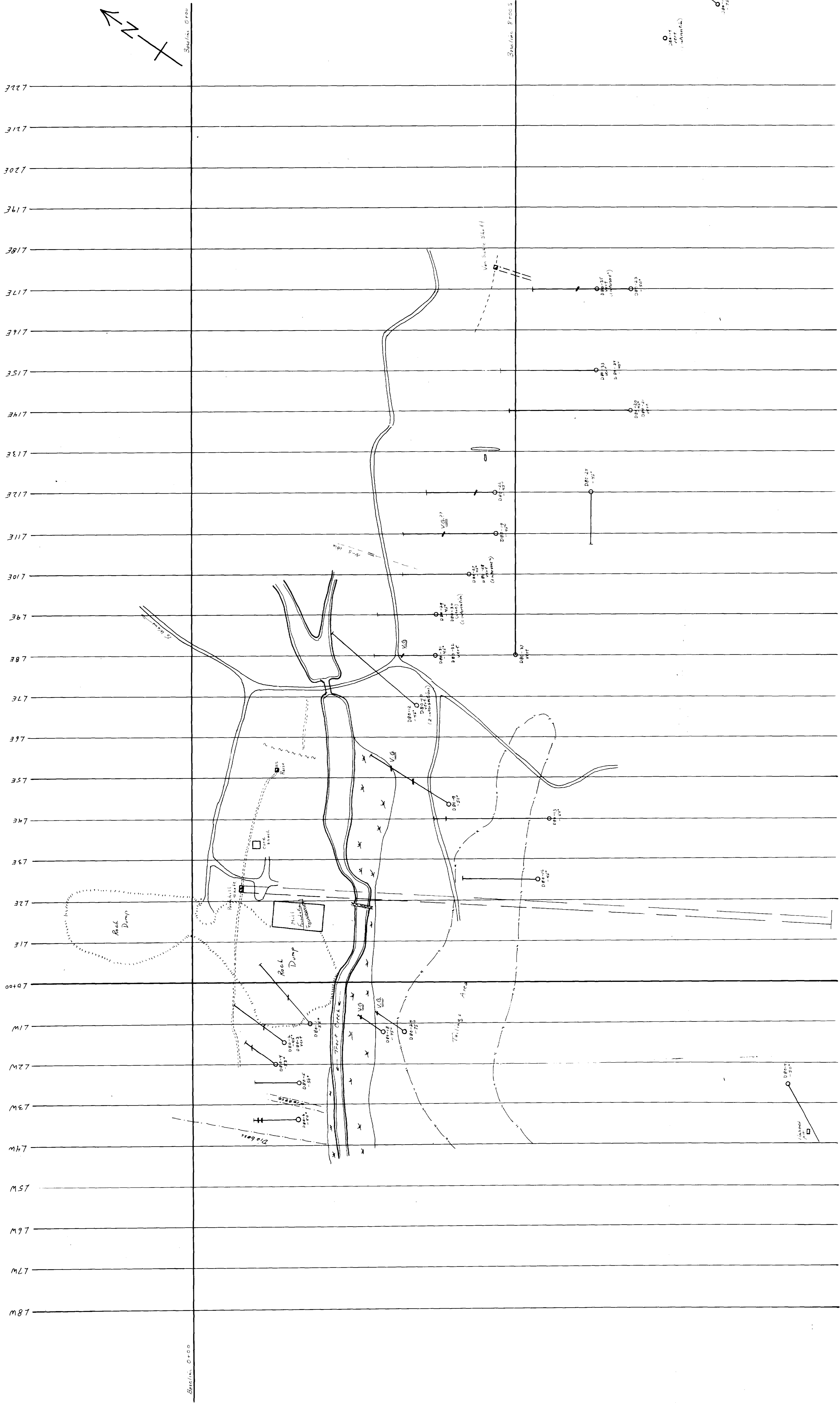
- 1 [Symbol] - Lamprophyre
- 2 [Symbol] - Diabase-Keweenawin
- 3 [Symbol] - Quartz Vein
- 4 [Symbol] - Granodiorite
- 5 [Symbol] - Diorites (including porphyrite)
- 6 [Symbol] - Older Diabase-Gabbro (cut by granodiorites)
- 7 [Symbol] - Meta-volcanics - mainly intermediate to acid fragmentals in North Group - mainly basic to intermediate flows with some undivided diorite and gabbro in the South Group
Locally conglomerate occurs in the acid tuffs north of the shaft

DUNRAINE MINES LIMITED
 PARKHILL PROJECT - WAWA, ONTARIO
 GEOLOGICAL MAP
 1" = 400' See Murray 2210 JULY 22, 1980



200

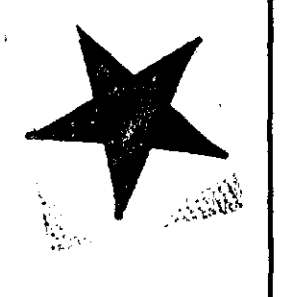
MCMURRAY - 0041
 MAP # 1



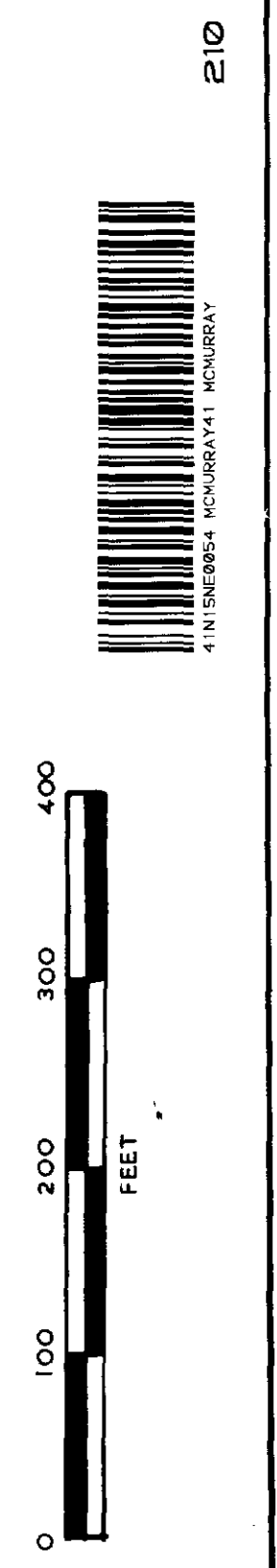
DUNRAINE MINES LTD
DIAMOND DRILL PLAN
 McMURRAY TOWNSHIP

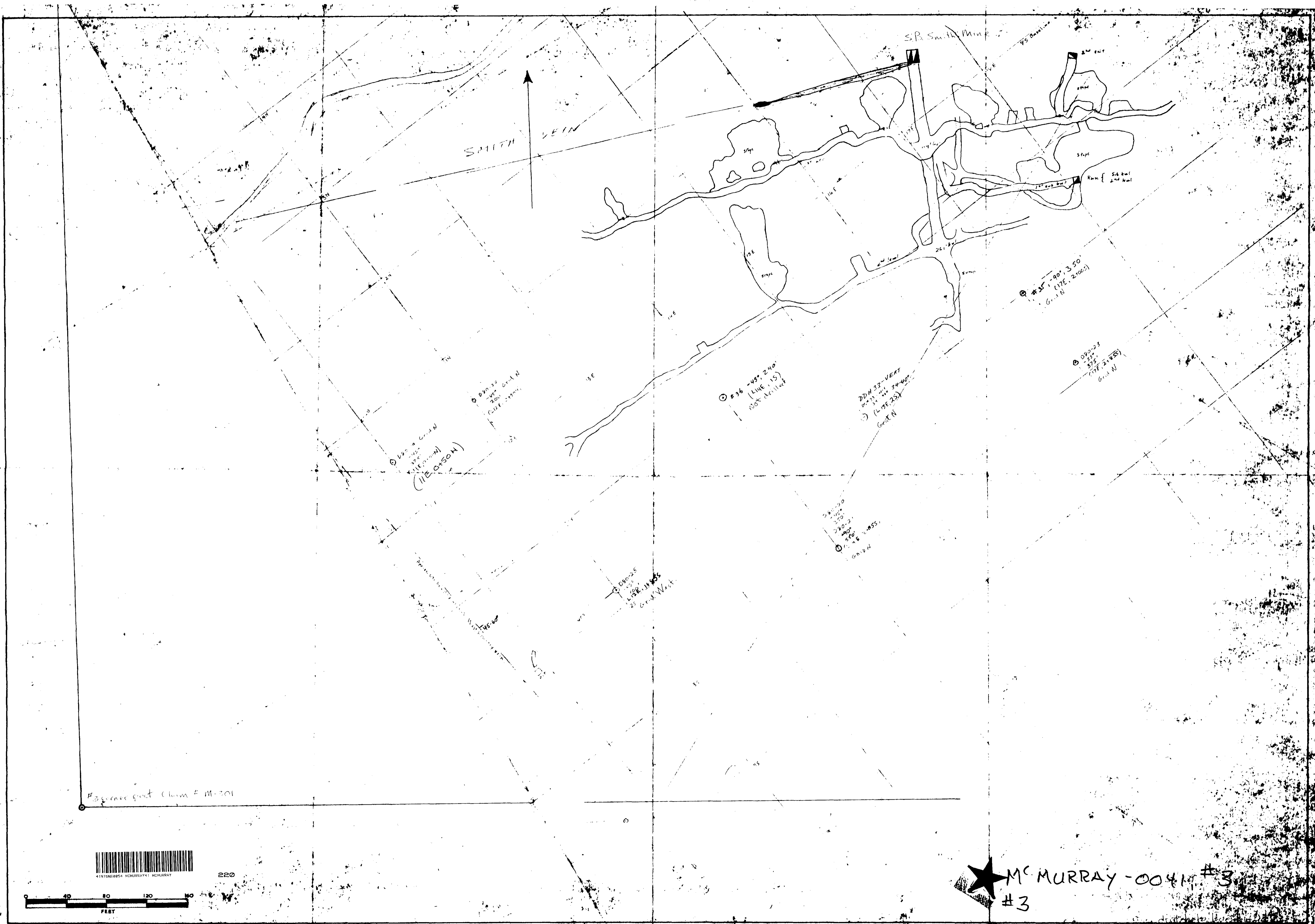
OM12-PE9-C-80

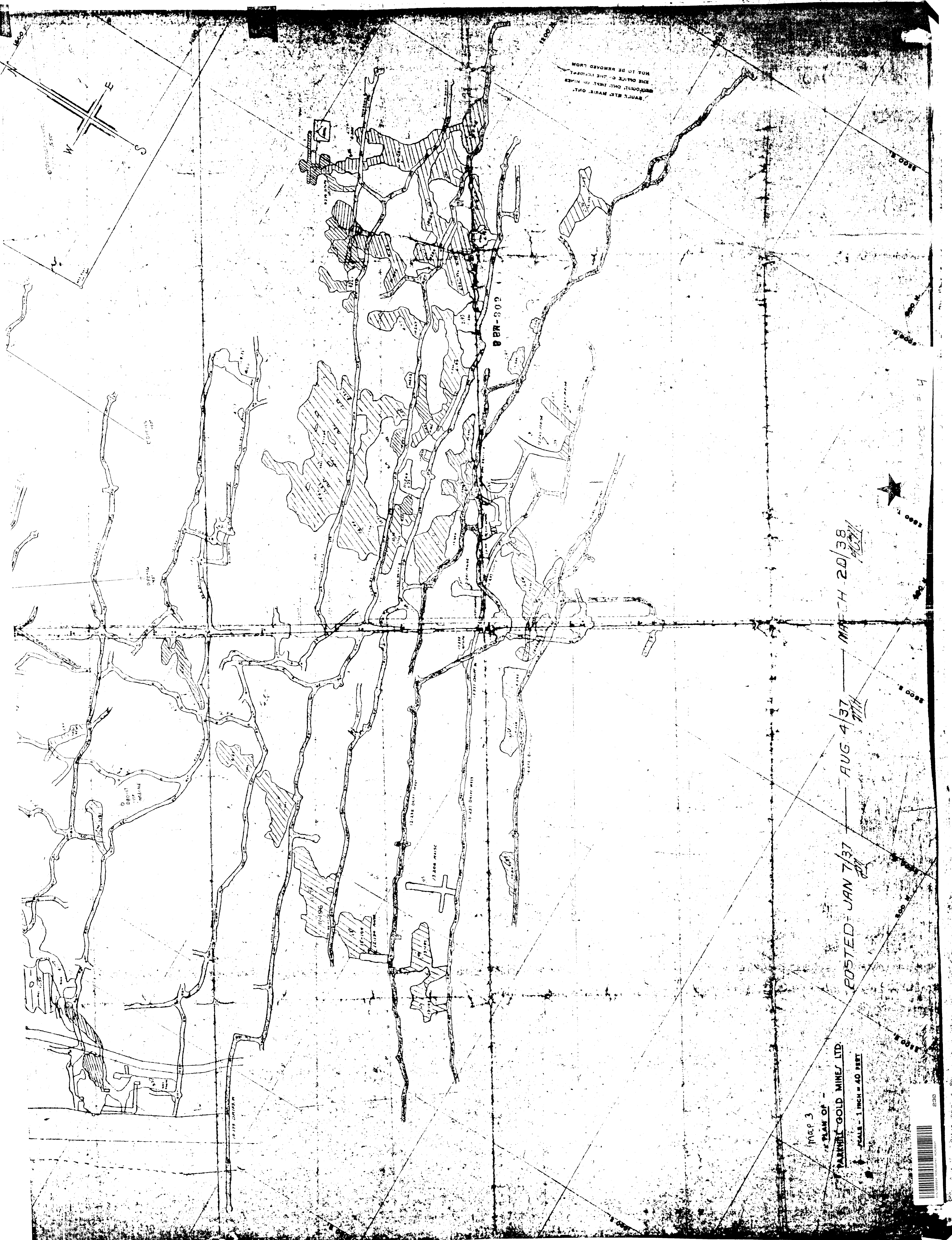
M' MURRAY 0041, MAP #2



Van Slick Shaft
 Drill Hole
 Red Dump
 Mill Building
 Tailings Area
 Disposal
 Dip Base
 Dip Base







NOTE TO BE REMOVED FROM THE OFFICE OF THE ENGINEER BEFORE THE MAP IS PRINTED

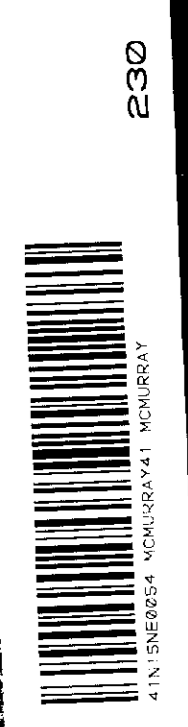
MAILED 20/38

AUG 4/37

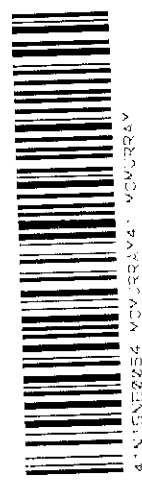
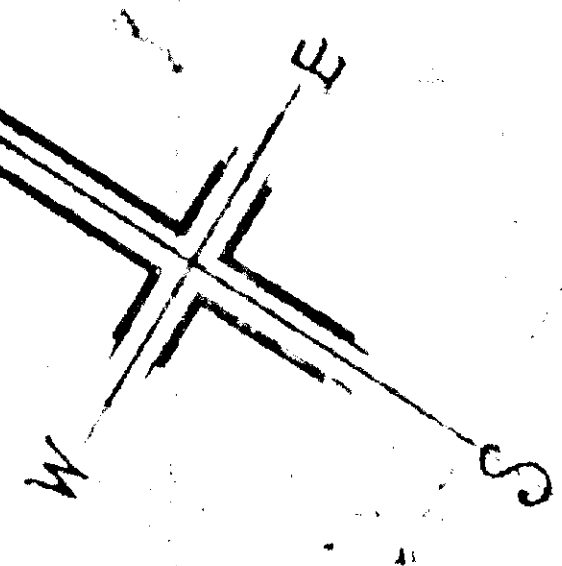
POSTED JAN 7/37

MAP 3
PLAN OF
PARKHILL GOLD MINES LTD

SCALE - 1 INCH = 40 FEET



230
O.V. 12, 129-4, 80



240