



DENISON MINES LIMITED

EXPLORATION DIVISION



52E10SW8559 63.5293 SHOAL LAKE

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REPORT ON  
KENORA GOLD PROJECT  
KENORA PROSPECTORS AND MINERS LIMITED OPTION

SHOAL LAKE AREA  
KENORA MINING DIVISION

ONTARIO

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1. SUMMARY

A program of exploration was carried out over the property in 1981. This is the continuation of the geophysical and geochemical work carried out in the fall of 1980.

The work consisted of diamond drilling, geophysics, prospecting of geophysical and geochemical anomalies, trenching and sampling of all showings of interest.

Drilling below the deepest mine workings (625' level) of the Cedar Island No.1 Vein was carried out to check for the depth continuation of the vein. Hole C81-1 cut two narrow sections with quartz stringers with low gold values south of the No.1 Vein. No.1 Vein was not intersected. Holes C81-1 and C81-2 cut "vein type" felsic shears with quartz north of the depth projection of Vein No.1. The "vein type" felsic shear is identical to a felsic shear with quartz and pyrite found in Trench H on the mainland, 1,000 feet south east of Cedar Island on the projected strike of No.1. Vein. One sample over 1.6 feet of the 5.6 foot wide shear assayed 0.68 oz Au/ton. Another sample on the same shear 1150 feet farther south east ran 1.73 oz Au/ton over 1.9 feet. Hole C81-2 cut 2.9 feet of the "vein type" shear which assayed 0.014 oz Au/ton and another similar section ran 0.05 oz Au/ton over 1.1 feet. Hole C81-3 cut 9.5 feet of "vein type" shear with quartz and pyrite which averaged 0.026 oz Au/ton. Both intersections lie north of the projected plane of No.1 Vein and could represent parallel vein fractures or a change in vein dip from a south dip at surface to a north dip below the 625 foot level.

Three short progressive drill programs were carried out in the Mikado Mine Area which lies on the mainland 3/4 mile east of Cedar Island. One hole was drilled between the old mine workings of No.1 Vein to test for vein character and values. A 1" quartz stringer was cut at the pierce point of the projected plane of the vein. A 0.5 foot sample including this quartz assayed 0.14 oz Au/ton. No alteration accompanies this quartz stringer.

A total of six holes were drilled to check for the extension of No.2 Vein laterally on strike and at depth below the mine workings. Holes M81-1 and M81-2 cut narrow sections of No.2 Vein quartz with visible gold below the 180 foot level workings north of the shaft. Hole M81-1 cut 8.4 feet with visible gold which averaged 0.17 oz Au/ton and also 1.0 with visible gold which ran 0.92 oz Au/ton 19 feet farther down the hole. Hole M81-2 cut 5.0 feet with visible gold which assayed 0.23 oz Au/ton. Holes M81-2 and M81-4 drilled to section the area below the 240' level workings south of the shaft intersected narrow sections of the probable No.2 Vein with green carbonate and fine brown chlorite mottling of vein type alteration with negligible quartz and gold values. Holes M81-5 and M81-6 drilled to test for the extension of values north from holes M81-1 did not cut the vein on projection. Hole M81-5 cut a 7.0' section of silicified felsite

## Summary (Cont'd)

which ran 0.082 oz Au/ton. Hole M81-6 cut 1.75 of silicified felsite (as in hole M81-5) which ran 0.002 oz Au/ton. These intersections lie 50' and 80' respectively west of the projected strike of No.2 Vein and may represent the westward faulted portion of the vein fracture. Holes M81-3 and M81-4 which were collared farther east to cover more structure while drilling for No.2 Vein as above cut sericitized fracture zones with auriferous quartz veins in granodiorite near the hole collars. These intersections lie above 230 feet east of No.2 Vein fracture and is called the Grano Zone. Hole M81-3 cut 10.1 feet of the zone which averaged 0.053 oz Au/ton. Hole M81-4 cut 15.3 feet of the zone with visible gold in quartz which averaged 0.30 oz Au/ton. This intersection includes 2.4' which ran 1.80 oz Au/ton. An additional intersection 6.6 feet farther down the hole ran 0.18 oz Au/ton over 0.8 feet. Another intersection 18.4 feet farther down the hole cut 3.2 feet which ran 0.041 oz Au/ton plus 0.67% Cu and 1.45% Zn. Holes M81-7 and M81-8 drilled below M81-3 and M81-4 to test for gold mineralization in the granodiorite collared in the flat-lying host rock and entered into volcanics below the vein projection and failed to cut the zone. Hole M81-7 cut low gold values east and west of the north-west striking Grano zone. Hole M81-8 cut 5.2' grading 0.047 oz Au/ton 120' east of the Grano Zone in granodiorite. An intersection in quartz diorite in volcanics about 50 feet below the flat-lying granodiorite ran 0.43 oz Au/ton over 2.2' and could represent the Grano Zone fracture. A further intersection 90 feet farther down the hole cut 2.75' with quartz stringers in altered volcanics which averaged 0.375 oz Au/ton. This section includes 0.4' of quartz with visible gold which ran 2.0 oz Au/ton. Hole M81-9, 100 feet south of M81-4 cut 15.0 feet of the Grano Zone which averaged 0.47 oz Au/ton. This intersection includes 3.0 feet which ran 2.1 oz Au/ton. Hole M81-11, drilled 100 feet south of M81-9 cut 15.3 feet of the Grano Zone with attendant quartz and sericitic alteration but averaged 0.004 oz Au/ton. The values obviously fall off but the altered fracture zone continues. Hole M81-12 drilled 100 feet south of M81-11 cut 7.1 feet which averaged 0.31 oz Au/ton in a quartz diorite dike with negligible sericitic alteration and some quartz veining. This intersection plots on the southerly projection of the Grano Zone and probably represents the Grano zone fracture system. Hole M81-13, drilled 100 feet south of M81-12 cut 2.7' grading 0.16 oz Au/ton in quartz diorite in volcanics 65' east of the grano zone projection. A 4.0' intersection with quartz stringers in diorite (flow?) near the projection of the Grano Zone fracture ran 0.049 oz Au/ton.

The Grano Zone is composed of quartz filled fractures in sericitized granodiorite. It strikes north-west almost conformable to No.2 Vein fracture some 200 feet farther west.

Summary (Cont'd)

Hole M81-10 was drilled to intersect No.1 Vein within the main Mikado Mine workings at a vertical depth of 310 feet. The pierce point of the hole was designed to cut between the 4th and 7th levels of the mine, 70 feet above a drift sampled length of 220 feet which averaged 0.46 oz Au/ton over 5.0 feet and 160 feet north of a raise with a sampled length of 63 feet grading 0.71 oz Au/ton over 5.4 feet. The hole cut 1 inch of quartz only at the pierce point. A 0.5' sample including the quartz ran 0.14 oz Au/ton. No alteration accompanied the quartz.

Old surface showings were cleaned and sampled as well as pit dumps. High grade samples were obtained from two narrow quartz veins on McKinnon Reef 800 feet of Cedar Island and a narrow vein at Pit "B" about 2,200 feet south of Mikado Mine. Select samples from McKinnon Reef ran 1.45 oz Au/ton over 3 inches; 3.51 oz Au/ton over 3 inches. The Pit "B" vein ran 0.85 oz Au/ton over 4 inches and 7.62 oz Au/ton over 3 inches. The pit dump ran 0.12 oz Au/ton in random grabs. The strongest veins occur on the Old Ontario section of the property south and south-west of Cedar Island. Eight strong quartz fissure veins and one with quartz stringers in shear were sampled. Best samples were cut from No.9 Vein which ran 0.10 oz Au/ton over 1.5 feet and 0.20 oz Au/ton over 0.6 feet.

A number of showings in trenches on the mainland south-east of Cedar Island were sampled. Trench H on the lake shore 1,000 feet south-east of Cedar Island hosts a 5.6 foot wide felsic shear similar to that cut in holes C81-2 and 3. A 1.6 foot sample from the south side of this shear ran 0.68 oz Au/ton. The best sample was cut in trench E-2, 1130 feet south east of H.A 1.9 foot sample in identical felsic shear with quartz stringers ran 1.73 oz Au/ton.

Ground investigation was carried out over geochemical (humic for for gold) anomalies and VLF-EM conductors all detected in the 1980 surveys. None of the geochemical anomalies, the strongest of which occur in areas of rock trenching and pit dumps dating back to 1893, are of further interest.

Many of the VLF-EM conductors occur in narrow wet and dry draws and wet swamps and are probably topographical. A large number are in overburden too deep for trenching.

2. CONCLUSIONS

1. The best feature of economic interest is the new Grano Zone which yielded ore grade values in drilling.
2. The Cedar Island drilling cut narrow widths of low values in felsic vein type shears with quartz stringers. No definite vein was intersected on the projected dip of the No.1 Vein below the lowest mine workings.
3. The Mikado Mine No.1 Vein was tested with one drill hole within the mine workings. A one inch quartz stringer with no alteration was intersected at the pierce point of the projected vein which carries low gold.
4. The Mikado Mine No.2 Vein drilling below the lowest mine workings on the vein cut visible gold in narrow quartz veins and stringers. The intersections are not ore.
5. The surface exploration program did not indicate any drill targets but areas with high assays require further investigation.
6. McKinnon Reef vein 1,000 feet north east of Cedar Island and Pit "B" vein 2,000 feet south of Mikado Mines yielded high gold values in selected samples over narrow widths. Two samples 1,000 feet and 2,150 feet south east of Cedar Island on the No.1 Vein projection cut 0.68 oz Au/ton over 1.6 feet and 1.73 oz Au/ton over 1.9 feet respectively in felsic shear identical to the description of the No.1 Vein host rock.
7. The \$150,000 cash payment due on January 31, 1982 is not justified based on the present results. The only interest is the Grano Zone and areas which has a potential of yielding possibly 200,000 tons or ore.

3. RECOMMENDATIONS

1. Map the immediate area of Mikado Mines including the west south-west edge of the Canoe Lake Quartz Diorite stock.
2. Drill short holes to check for the northern continuation of the Grano Zone.
3. Drill one or more cross sections east of the Grano Zone well into the Canoe Lake Quartz Diorite stock to search for possible additional gold-bearing fracture zones similar to and parallel with the Grano Zone.
4. Examine the areas of high surface samples for possible additional surface stripping and sampling.

4. INTRODUCTION

The property was optioned from Kenora Prospectors and Miner's Limited of Kenora, Ontario in the late summer of 1980.

The property hosted two small past gold producers, Cedar Island Mine and Mikado Mines Limited which were last worked on in 1936. The Cedar Island Mine production amounted to 17,050 tons grading 0.29 oz Au/ton from No.1 Vein system. The Mikado Mines production amounted to 57,813 tons grading 0.49 oz Au/ton (E. Patterson, 1980 - his source of information is unknown) mainly from the No.1 Vein. (indicated grade from skimpy mine records is about 0.30 oz Au/ton)

A basic program of exploration including geophysical, and geochemical (humic for gold) surveys was started in early fall of 1980. The Cedar Island Mines tailings dump was sampled and has 10,510 tons indicated grading 0.064 oz Au/ton to an average depth of 6.15 feet. The Mikado Mine's tailings dump was also sampled and has 41,572 tons indicated grading 0.073 oz Au/ton to an average depth of 7.56 feet.

The muck piles from both properties are very low grade.

The exploration program was continued in the winter and summer of 1981 with drilling carried out into fall freeze up.

Ground follow-up of geophysical and geochemical anomalies, prospecting, trenching and sampling was done during the summer season.

5.

PROPERTY

The property consists of 28 patented mining claims and one license of occupation totalling 1585.72 acres. The group straddles Bag Bay in the north-west part of Shoal Lake and lies 24 air miles south-west from the town of Kenora. Access is via Hwy. 17 west for 23 miles from Kenora and 12 miles south over improved and gravel roads to Clytre Bay landing which is 2.4 miles south by water from Cedar Island camp.

6.

PREVIOUS WORK

Prospecting for gold was carried out in this part of the country in the late 1800's and in 1893 gold discoveries made at the Mikado Mine Property were worked on. Recommended production value for the Mikado Mine from 1893 to 1911 and in 1931 totalled \$500,000 at a gold price of \$20.67 oz (gold prices at that time could have been in the \$16 per ounce range). The mine would have yielded 24,190 recovered ounces. (Ennis 1973 quotes 2418.96 oz. which is an arithmetical error). (G. Patterson 1980 quotes 57,183 tons of 0.49 oz Au/T which would equate to 28,020 ounces gold recovered).

The Mikado Mine was dewatered and some diamond drilling and exploratory drifting was done during a period in 1933 and 1934 but no ore was mined.

The Cedar Island Mine began operations in 1896 when it was called the Cornucopia Mine. It was subsequently operated by Kenora Prospectors and Miners Limited for a period during 1935 and 1936 and closed down. Total production quoted was approximately \$174,146 from 17,050 tons. This would equate to a recovered production of 4,976 ounces gold with ore grading 0.29 oz Au/ton.

The Old Ontario property was first worked on in 1896 with limited sporadic work done particularly in 1929 by Kenora Prospectors and Miners Limited. A number of quartz veins were discovered, trenched and sampled, but no diamond drilling was done.

7.

GEOLOGY

The property is underlain by Precambrian rocks of the Superior Province of the Precambrian Shield and lies on and near the south-west margin of the Canoe Lake Quartz Diorite stock.

The rocks consist primarily of fine grained mafic to intermediate metavolcanics of basaltic and andesitic composition with minor interflow tuff and sediments.

The volcanic assemblage is intruded by sills and dikes of diorite, gabbro, quartz-diorite, quartz feldspar porphyry and feldspar porphyry. The diorites and gabbro may be volcanic in part. Felsic intrusions are related to the Canoe Lake Quartz Diorite Stock.

The whole assemblage is fractured and intruded by veins and stringers of quartz and quartz carbonate in tension cracks, shears and faults often carrying gold and sporadic amounts of accessory sulphides and arsenopyrite. Chlorite and sericite are also important accessory minerals, the latter being more plentiful in the fracture areas in the granodiorite. (quartz diorite). Pyrite often occurs in the acid dikes. Sporadic amount of pyrite, chalcopyrite and pyrrhotite occur in the tuff and meta-sediments in the Cedar Island area.

The diorites and gabbros often carry accessory pyrite, and scant pyrrhotite, chalcopyrite and abundant fine magnetite.

8. ECONOMIC GEOLOGY

8.1  
Cedar Island Mine Limited

The main gold-bearing feature in this mine is the north-west striking south dipping No.1 Vein. It occurs as narrow, discontinuous quartz veins and stringers in a lightly pyritized felsic shear in basaltic lavas. Two of three holes drilled below the lowest mine workings of the 625 foot level cut felsic shear with attendant quartz. Assays are low. Very low sporadic gold values also occur in mineralized tuffs striking north-east through the mine workings. These tuffs also carry local heavy concentrations of pyrite, pyrrhotite, chalcopyrite and sphalerite. Production to closing in 1936 amounted to 17.050 tons grading 0.29 oz Au/ton.

8.2  
Mikado Mines Limited

This mine lies on the mainland 3/4 mile east of Cedar Island. The bulk of the production came from No.1 Vein which was mined separately from the No.2 Vein. The latter vein lies 500 feet east of and roughly conformable to the north-west striking, east dipping No.1. Vein.

The veins occupy conformable fractures in fine grained andesite. The fractures continue through acid intrusives derived from the Canoe Lake Quartz Diorite stock to the east-north-east. Most of the ore mined in No.1 Vein occur in and near the hanging wall side of an east west striking, south dipping apophysis of granodiorite extending west from the main quartz diorite stock. No.2 Vein also occurs in part in the granodiorite.

The newly discovered Grano Zone occurs as narrow gold quartz veins in sericitic fractures in granodiorite lying 225 feet east of and roughly conformable with No.2 Vein. The Grano Zone fractures appear to continue south into volcanics as per drilling. The north extension of the zone is open. The granodiorite host rock as drilled appears to be flat lying and about 110 feet thick and is the eastward extension of the apophysis which cuts through the No.1 and No.2 Veins. This structure probably joins up with the main Canoe Lake Quartz Diorite stock a short distance to the east.

One hole drilled within the No.1 Vein mine workings in the vicinity of gold values obtained underground cut only 1" of gold-bearing quartz at the pierce point of the projected vein. No alteration accompanies this quartz.



Economic Geology (Cont'd)

Two holes of six drilled to test No.2 Vein below the old mine workings and lateral extension cut visible gold in very narrow widths of quartz. Holes M81-4, 9 and 12 of eight holes drilled on the Grano Zone cut ore grade values.

A drilled block 117' x 225" including holes M81-3 (low grade) and M81-4 and 9 indicates 30,977 tons grading 0.356 oz Au/ton over an average width of 14.16 feet. This uncut grade is carried by 1.8 oz Au/ton over 2.4 feet in hole 4 and 2.1 oz Au/ton over 3.0 feet in hole 9. These figures are arrived at by block calculations as opposed to normal calculations and are listed as follows:

<u>Hole No.</u>	<u>Length</u>	<u>Depth</u>	<u>Area</u>	<u>Width</u>	<u>Volume</u>	<u>Grade</u>	<u>Vol.x Grade</u>
M81-3	50'	100'	5,000	10.1'	50,500	0.053	3,677
M81-4	75'	110'	8,250	15.3'	126,225	0.300	37,868
M81-9	100'	130'	13,000	15.0	195,000	0.470	91,650
	225'		26,250		371,725		132,195

Average Grade  $132,195 \div 371,725 = 0.356$  oz Au/ton  
 Average Width  $371,725 \div 26,250 = 14.16$  feet  
 Average Depth  $26,250 \div 225 = 116.67$  feet

Conventional calculations would be as follows:

<u>Hole No.</u>	<u>Length</u>	<u>Width</u>	<u>Area</u>	<u>Grade</u>	<u>Area Grade</u>
M81-3	50'	10.1	505	0.053	26.77
M81-4	75'	15.3	1,148	0.300	344.25
M81-9	100'	15.0	1,500	0.470	705.00
	225'	40.4	3,153		1,076.02

Average Grade  $1076.02 \div 3153 = 0.341$  oz Au/ton  
 Average Width  $1076.02 \div 225 = 14.01$  feet

The above drilling of a block 117' x 225 x 14.01 = 30,734 tons.

### Economic Geology (Cont'd)

No allowance is made for a cut grade, true width or mining dilution. Hole M81-12 200 feet south of M81-9 cut 7.8 feet grading 0.31 oz Au/ton in a quartz diorite dike on the zone fracture. Hole M81-11, 100 feet south of M81-9 cut 15.3 feet of the Grano Zone with less quartz and negligible values. Hole M81-13, 100 feet south of M81-12 is in volcanics and cut 4.0 feet of 0.049 oz Au/ton on the projected Grano Zone fracture. The zone obviously weakens in the volcanics but is still open to the north in granodiorite.

#### 8.3

##### Old Ontario Property

8 of 9 veins are narrow (less than 2 feet wide) traverses fissure type veins composed of massive whitish quartz in volcanics. The No.1 Vein is composed of quartz stringers in a strong carbonatized shear. Two samples of 14 channels cut on Vein No.9 ran 0.10 oz Au/ton over 1.5 feet and 0.20 oz Au/ton over 0.6 feet. The remaining vein samples were all well below 0.10 oz Au/ton.

Samples were also cut on shear zones which strike along an aerial photo lineament through the Mikado Mine. Assays were negligible.

#### 8.4

##### Old Pits, South of Mikado Mines

Five pit dumps and/or veins were sampled in this area extending to the southern property limits.

Best assays from a 60 foot narrow quartz vein in Pit "B" are 0.85 oz Au/ton over 4 inches and 7.62 oz Au/ton over 3 inches. The pit dump ran 0.12 oz Au/ton from a random composite sample. The vein, albeit very narrow where seen deserves more investigation.

#### 8.5

##### Mainland East of Cedar Island

A number of trenches were cleared and samples taken. All of the trenched samples lie on strike of the Cedar Island Mines No.1 Vein 1,000 feet to the north-west of mainland from Trench H. The trenches are in felsic shear with minor quartz similar to the drill intersections cut in holes M81-2 and 3.

## Economic Geology (Cont'd)

Best assays are as follows:

Trench H on mainland. 1.6 feet on the south side of the 5.6' wide shear ran 0.68 oz Au/ton. Trench A-3, 380 feet south east of H ran 0.12 oz Au/ton over 3.1 feet in felsic shear. Trench E-2, 1130 feet south east of H ran 1.73 oz Au/ton over 1.9 feet in felsic shear. The remaining samples ran well below 0.10 oz Au/ton. This area deserves further work to open up the felsic shear for additional sampling and/or drilling.

### 6.6

#### Economic Aspects

Small scale mining was last carried out on the Cedar Island Mines and Mikado Mines properties in 1936. Mine and property records are incomplete and very sketchy. As near as can be ascertained from the information supplied the following production was attained.

Cedar Island Mine: 17,050 tons grading 0.29 oz Au/ton  
Mikado Mines (No.1 and No.2 Vein mines) 57,813 tons grading 0.49 oz Au/ton (grade appears high compared to mining records).

The mining plants and the mill on Cedar Island were kept intact and on standby for several years following shutdown, but were eventually sold off piecemeal and/or left to disuse and ruin.

Drilling by Denison under and near the workings of both mines did not verify any of the results quoted as mined or left in situ.

The newly discovered (by Denison drilling) Grano Zone east of Mikado No.2 Vein and possible parallel gold-bearing fracture zones east of the Grano Zone offers the possibility of defining a small tonnage of ore in the order of 200,000 tons. The gold-bearing quartz veins of the Grano Zone are narrow and often carry free gold but carry the lower grade adjoining samples up to mining widths. There would probably be no extraction problem of the gold. The sulphide content of the Grano Zone is low although some heavy sulphides in narrow sections occur within the calculated ore shoots. There is a marked absence of arsenopyrite in this zone. (By contrast the Duport Mine gold deposit on Cameron Island 4 miles south west of Mikado Mines is reported to carry several percent of arsenopyrite associated with the gold deposition).

9. ECONOMIC POTENTIAL

9.1  
Cedar Island Mine

Areas of ore reportedly exist within the mine workings, but are not fully substantiated by mine records. Indicated grade (D.F. Ennis 1963) is 0.90 oz Au/ton over a width of 3 feet.

Three holes drilled by Denison below the deepest mine workings of the 625 foot level failed to intersect vein material of comparable grade. The mine is of no economic interest.

9.2  
Mikado Mines  
Vein No.1 Mine:

One hole was drilled by Denison through the vein projection within an area of indicated ore north of a raise and above the 7th level drift. A gold-bearing 1" quartz stringer only was cut with no alteration.

The ore mined in the section of this vein on the hanging wall side of a granodiorite dike probably continues below the lowest (10th) level (-590'V) where last mining took place. This ore shoot is short and the small tonnage of ore expected is not worth drilling for.

The No.1 Vein is of no interest at this time, but deserves further drilling if a mine is made on other features of this project.

Vein No.2 Mine:

Small scale mining was done from two levels at -180' and -250 feet prior to 1936. Two holes of six drilled on this vein by Denison cut visible gold in narrow quartz veins, but are sub ore.

The remaining four holes did not cut vein quartz nor values of importance. This vein is not of any immediate importance and is of the same status as No.1 Vein.

9.3  
Grano Zone

This zone is of economic interest. The zone is limited in extent by the roughly 110 foot thickness of the flat lying granodiorite host rock and also by the volcanics to the south but is open to the north. Hole M81-3 on the north end of the



Exploration Program (Cont'd)

10.1.1

Geophysical Anomalies

VLF-EM conductors detected in the 1980 survey were investigated by ground search. Nothing of interest was found. Many of the crossovers lie in wet areas and areas of overburden too deep to trench. The transmitter to receiver coupling for the survey was poor as no proper station was in good line for this type of survey. The grid was oriented to suit rock structures and not designed specifically for VLF-EM survey.

10.1.2

Geochemical Anomalies(Humic for Gold)

Geochemical Anomalies detected in the 1980 survey were investigated. The strongest anomalies occur at or near areas of rock excavations and trenches which were carried out by previous operators dating back to 1893. The anomalies are attributed to the overabundance of rock surfaces exposed to vegetation root contact as opposed to normally flat outcrop surfaces of glacially scoured topography. The surface area exposed to root contacts of the latter would by comparison be very small as opposed to broken rock.

10.2

Sampling

All showings located were stripped and sampled mostly by channel sampling. Pit dumps were sampled by random composite grabs.

10.2.1

Cedar Island Mine Area

The probable extension of the mine No.1 Vein was found on the mainland 1,000 feet south-east of Cedar Island and in two trenches 1,130 feet farther inland.

The vein occurs as quartz stringers in a felsic shear. Best assays were 0.68 oz Au/ton over a 1.6 foot width on the south side of a 5.6 foot shear in trench H near the lakeshore. A 3.1 foot sample 450 feet south-east of H in trench A-3 on the same shear ran 0.12 oz Au/ton. The best sample taken from trench E-2 also on the same shear 1,130 feet south-east of trench H ran 1.73 oz Au/ton over 1.9 feet.

Exploration Program (Cont'd)

10.2.2

McKinnon Reef

Three narrow quartz veinlets are exposed in a small reef off the south-west shore of McKinnon Island at low water time. A selected sample was taken from each vein.

The north veinlet ran 3.51 oz Au/ton over 3 inches. The middle veinlet 6 feet south of the above ran 1.45 oz Au/ton over 3 inches.

The south veinlet plus shear 3 feet south of the above ran 0.077 oz Au/ton over 6 inches.

10.2.3

Old Ontario Property

This area covers the south-west part of the property. Nine veins were stripped and channel sampled of the twelve reported. Veins found are numbers 1,2,3,8,9,9N,10,11 and 12. No.7 vein pit (not sampled) shows minor quartz in shearing. Veins 9,10 and 11 are strong transverse fissure veins. Best samples were cut in parts of Vein No.9 as follows: 0.10 oz Au/ton over 1.5 feet and 0.20 az Au/ton over 0.6 feet. The remainder of the 28 channel samples assayed well below 0.10 oz Au/ton.

A brief description of the veins are as follows: (See Old Ontario Vein Map).

Vein No.1: quartz stringers in a strong oxidized carbonatized shear with minor pyrite.

Vein No.2: a short exposure of quartz striking 40° with a maximum width of 1.2 feet.

Vein No.3: a short exposure with a maximum width of 1.6 feet striking north-east.

Vein No.7: (not sampled) minor quartz in shear. Strike north-east.

Vein No.8: lies west of vein No.9 on strike. Maximum width is 2.4 feet.

Vein No.9: found in four trenches striking acutely south-east over a distance of 1,200 feet. The quartz is white, crystalline with minor sulphides. Best sample are listed above.

Vein No.9N: lies a short distance north of Vein 9. Two narrow quartz veins in a strong carbonatized shear zone yielded negligible gold values.

Vein No.10: lies parallel to Vein 9. Maximum width is 2.4 feet.

Exploration Program (Cont'd)

Vein No.11: strikes south-east. Vein width 1.8 maximum.

Vein No.12: found exposed near a pit. Maximum width is 1.9 feet.

A strong shear zone with minor quartz stringers lying north-west of the Old Ontario Vein System gave low assays. This shear lies on the west end of a major lineament which strikes north-east through the Mikado Mines property along which the granodiorite is offset about 2,000 feet east. Additional samples in weaker shearing 150 feet north of the above contains quartz with low assays.

10.2.4

Area South of Mikado Mines

Five pits including one designated as No.3 shaft were located in this area and are described as follows: (See Pits Map South of Mikado)

Pit "A" shown 3 inches of quartz in grey felsite. Assays are negligible.

Pit "B" south of "A" shows a very narrow quartz vein exposed for 65 feet. Select samples ran as follows: 0.85 oz Au/ton over 4 inches 30 feet south of the pit - 7.62 oz Au/ton over 3 inches 60 feet south of the pit. A random composite grab sample of the dump assayed 0.12 oz Au/ton.

Pit "C" (No.3 Shaft) No vein exposed. A random composite sample of the dump assayed very low. Minor quartz seen.

Pit "D" south of the above. An 8 inch vein seen in the pit wall. A random composite muck sample assayed very low.

Pit "E" south west of Pit "C". A random composite muck sample assayed very low.

All of the pits are water filled and inaccessible.

Four pits found east of Mikado Mine yielded little quartz in the dumps. The pits are water filled and inaccessible. No quartz was seen on the trench dumps. The trenches are caved and highly vegetated.



11.

LINECUTTING

Line grid preparation was done over lake ice from the land extensions of the 1980 mainland grids.

One small grid was put in over the Mikado Mine portion of an airborne lineament for geophysical work.

6.25 miles of lake lines and 1.1 mile of land lines were prepared.

12.

GEOPHYSICS

The north portion of the property overlain by the water of Bag Bay and Mikado Bay was covered with Magnetometric and Electromagnetic surveys over lake ice on the extensions of the 1980 land grid.

12.1

Magnetometric Survey

Instrument used was an Exploranium Protonon Precession Model G836 Unimag. Accuracy is ten gammas on a scalar total field readout with a sensitivity of one gamma. Control stations were established at regular workable intervals along the base lines to effect close control over diurnal magnetic variations.

12.1.1

Mikado Bay Grid

The area is one with minor magnetic relief. A small north-east striking high anomaly with attendant lows (polarity?) on either side was detected in the middle of the grid. The north end of the anomaly lies near the site of two diamond drill holes put down by previous operators. There is a possibility that broken casing and/or lost rods and other metallic drilling debris is a causative factor of this anomaly.

12.1.2

Bag Bay Grid

Several local magnetically high anomalies up to 600 gammas occur throughout the grid as well as one distinct linear. The latter anomaly lies along the west shore of Bag Bay. The north end lies west of Cedar Island. The southern portion of this anomaly could represent the extension of the mineralized tuff which outcrops on Cedar Island. The tuff carries sporadic heavy concentrations of pyrrhotite plus other sulphides and quartz veining. Gold

Geophysics (Cont'd)

values in this structure are low.

A local high anomaly north-east of Cedar Island could also represent the tuff as seen in outcrop on the mainland on the south end of this anomaly.

12.2  
Electromagnetic Survey

The lake ice grid and the Mikado Mines lineament land grid were surveyed with a CroneRadem VLF-EM unit using the Seattle Washington transmitter power source.

12.2.1  
Mikado Bay Grid

Several weak short conductors were detected and are of no further interest.

12.2.2  
Bag Bay Grid

Several one line crossover and two linear conductors were detected.

An 800 foot long conductor detected in the south west part of the grid has good association with the magnetic anomaly discussed previously. This conductor adds credence to the possiblity that the anomaly is caused by mineralized tuff which extends from Cedar Island.

12.2.3  
Mikado Mine Lineament

This grid straddles the geographical plot of a north-east striking lineament through the area where the granodiorite appears to be displaced 2,000 feet east. The survey was designed to delineate a possible fault here. No conductive fault is indicated.

13.

DIAMOND DRILLING

Four drill programs were carried out to test for the extension of gold mineralization below the Cedar Island Mines workings and the Mikado Mines No.2 Vein. One hole was drilled within the main Mikado Mines No.1 Vein workings.

Drilling was also carried out to test for the lateral extent of the new Grano Gold Zone which lies east of and roughly parallel with Mikado Mines No.2 Vein. Two holes were also drilled to test for the northern extension of the gold mineralization cut below the mine workings of Mikado Mines No.2 Vein in this section.

13.1

Cedar Island Mines.

The mine production to closing date in 1936 from quartz veins in pyritized felsic shear was 17,050 tons grading 0.29 oz Au/ton. There appears to be 18,781 tons grading around 0.90 oz Au/ton over 3.0 feet in situ within the mine. Uncut grade is reported to be 1.34 oz Au/ton. The deepest level is 625 feet.

Three holes were drilled to test for the depth continuation of the gold mineralization below the 625 foot level.

No definite quartz veins were intersected. Two of the holes cut felsic shears with some quartz. This shear matches the description of the vein in old records. (An identical felsic shear occurs in surface trenches 1,000 feet south-east of Cedar Island on the No.1 Vein projection on the mainland). A 1.6 foot sample cut on the south side of this 5.6 foot wide shear assayed 0.68 oz Au/ton. Another trench 1,130 feet south east of the above in identical felsic shear ran 1.73 oz Au/ton over 1.9 feet.

Drill holes details are as follows:

<u>Hole No.</u>	<u>Section</u>	<u>Lat.</u>	<u>Dep.</u>	<u>Az.</u>	<u>Dip</u>	<u>Purpose</u>
C81-1	00	9191.77N	3578.87E	45°	-74°	Test for gold mineralization below the 625 foot level
C81-2		9229.02N	3479.08E	38°	-67°	" "
C81-3		9228.00N	3478.00E	22°	-67°	" "

(See drill holes attached)

Diamond Drilling (Cont'd)

Intersections of interest are as follows:

Hole No.	From	To	Width	Assay	Remarks
C81-1	505.5	505.9	0.4'	0.200	1" grey Qtz. Carb. 3% pyr, Po, cpy
	650.3	650.8	0.5'	0.130	¼", ½" grey qtz, and carb.
	722.6	725.5	2.9'	0.226	15% grey white qtz and carb.
C81-2	93.6	95.0	1.4'	0.180	Qtz. Minor pyr, po, cpy
	657.8	659.3	1.5'	0.047	5% qtz < 1% pyr. in felsic shear
	965.2	966.3	1.1'	0.052	Vein type felsic shear silic'd
C81-3	805.5	810.5	5.0'	0.007	" " " 12" fault
	-	816.1	5.6'	0.001	" " " chloritic
	-	817.9	1.8'	TR	" " " carbt'zd
	979.3	981.0	1.7'	0.041	" " " chloritic 5% qtz
	983.1	987.8	4.7'	0.046	" " " 40% qtz < 1% pyr
	-	992.6	4.8'	0.006	" " " minor qtz

NOTE: 978.0-992.6 Felsic vein type shears near vein projection.

13.2  
Mikado Mines Limited

No actual projection figures are available from any source. A common figure mentioned is \$500,000 with gold at \$20.67 which relates to 24,189 oz gold but no tonnage is mentioned.

A scaled block of mined ore would indicate a tonnage roughly 50,000 tons grading 0.30 oz Au/ton. The grade is arrived at from sporadic production figures grading higher.

Thirteen holes were drilled to test for gold mineralization in No.1 Vein, No.2 Vein and the Grano Zone. (See drill logs attached)

Best intersections are as follows:

Hole No.	Vein	From	To	Width	oz Au/ton Grade	Remarks
M81-1	No.1	275.5	283.9	8.4'	0.17	1.2' of 0.056 oz with V.G. calculated as 1.0 oz Au/ton
		302.9	303.9	1.0	0.92	Minor qtz with V.G.
M81-2	No.2	274.0	294.9	0.9	0.23	Minor qtz Specks V.G.
M81-3	Grano Zone	70.5	80.6	10.1	0.053	Qtz. veins in sericitic grano
M81-4	Grano Zone	38.0	53.3	15.3	0.30	Includes 2.4' of 1.80 oz Au/ton with V.G.
		59.7	60.5	0.8	0.18	west side of zone
		or 38.0	60.5	22.5	0.22	
M81-5	No.2	225.3	225.9	4.6	0.10	100' N. of M81-1. Vein off-set 50' W.

A larger volume of samples by the block method could make a decided difference in tonnage and grade of an orebody.

14. PROPOSED PROGRAM

1. Drill to test for the northern extension of the gold mineralization of the Grano Zone.
2. Drill at least one lengthy cross section east of the Grano Zone extending into the Canoe Lake Quartz Diorite stock to test for possible fracture zones similar and parallel to the Grano Zone.
3. Map the Mikado Mine area to include the south west edge of the Canoe Lake stock above.
4. Recheck the values in the McKinnon Reef and another reef with quartz stringers in granodiorite to the south east which was not sampled. Also recheck the values in Pit "C" and the narrow vein south of Mikado. The sample areas in felsic shear south east of Cedar Island are of prime importance.

All of the above should be stripped by bulldozer.

15.

PERSONNEL

G.W. Gill	District Geologist	May 12	Sept.30, 1981
N. Kacira	District Geologist	Oct. 1	Dec. 16, 1981
C.F. Desson	Project Geologist	Feb.22	March 6, 1981
		May 12	Dec. 16, 1981 *
G. McBride	Utility	Feb.22	March 6, 1981
		May 13	Dec. 16, 1981 *
Laurie McBride	Cook	May 13	July 24, 1981 **
G. Polson	Labourer	May 13	July 24, 1981 **
T. Racicot	Labourer	May 13	July 24, 1981 **
Len McBride	Utility	Aug. 3	Oct. 2, 1981
A Moonie	Utility	Aug. 3	Oct. 2, 1981

\* Less 4 weeks on Mikado Projects

\*\* Less 2 weeks on Mikado Projects

QUALIFICATIONS OF WRITER

I am an Honours Graduate of the Haileybury School of Mines, am an active registered member of the Association of Professional Engineers of Ontario (A.P.E.O.) and have been employed in mining and mineral exploration for over 25 years.



*C. F. Desson*  
Carmen F. Desson, P. Eng.

17.

REFERENCES

1. Report on Mikado Mines Property. C.F. Desson, February 14/81.
2. Report on Cedar Island Mines and Old Ontario Property.  
C.F. Desson, March 30, 1981.
3. Report on Kenora Gold Project. C.F. Desson, April 7, 1981.
4. Report on Mikado Project, Three Groups of Claims.  
C.F. Desson, August 20, 1981.
5. Summary of Kenora Gold Project. C.F. Desson, January 15, 1982.



## SAMPLE RECORD

DDH M81-1

<u>Sample No.</u>	<u>Footages</u>		<u>Width</u>	<u>Assays</u>	<u>Remarks</u>
	<u>From</u>	<u>To</u>		<u>Au</u>	
K9376	251.0	253.0	2.0	0.004	2- $\frac{1}{4}$ " Qtz. strs. Fine pyr.
77	273.1	275.5	2.4	Nil	scant QC seams
78	-	280.3	4.8	0.035	alt'd Qtz. dior. sericitic
79	-	280.9	0.6	0.003	alt'n zone
80	-	281.5	0.6	0.002	alt'd Qtz dior.
81	-	282.7	1.2	0.056	1/16x $\frac{1}{2}$ " V.G CS. stks, pyr.
82	-	283.9	1.2	0.190	1 1/2" pyr, chl.
83	-	288.9	5.0	0.010	alt'd Qtz. dior.
84	-	292.8	3.9	TR	ditto
85	-	295.5	2.7	TR	abund QC in fract
86	-	297.5	2.0	0.008	$\frac{1}{2}$ " Qtz, blebs Qtz. pyr. fract
87	-	299.5	2.0	0.003	alt'd abund QC fract
88	-	301.5	2.0	0.015	ditto
89	-	302.9	1.4	0.004	ditto sericitic?
90	-	303.9	1.0	0.920	$\frac{1}{2}$ " Qtz w/V.G, $\frac{1}{2}$ ", 2", grey QC
91	-	306.0	2.1	0.005	alt'd $\frac{1}{4}$ ", 3/16" QC
92	-	308.0	2.0	0.001	as K9389

SAMPLE RECORD  
DDH M81-2

<u>Sample No.</u>	<u>Footages</u>		<u>Width</u>	<u>Assays</u>	<u>Remarks</u>
	<u>From</u>	<u>To</u>		<u>Au</u>	
K 9393	272.7	247.0	1.3	0.001	Minor QC seams
K 9394	-	274.9	0.9	0.230	Abund. grey qtz, carb Fine VG in clusters
K 9395	-	276.9	2.0	0.002	Abund QC in thin seams
K 9396	-	278.9	2.0	0.010	QC in fract's and 1 1/2" stks.
K 9397	-	280.9	2.0	TR	QC in fract's. Brecc'd
K 9398	-	282.9	2.0	0.002	QC in stks. 1/4" QC at 15°
K 9399	-	284.6	1.7	0.003	QC in stks and thin fract's
K 9400	290.2	291.0	0.8	0.003	2" banded QC. scant pyr
K 4201	296.2	298.0	1.8	Nil	Thin QC seams. spks pyr, cpy
K 4202	318.0	320.0	2.0	Nil	Fine QC fract's
K 4203	-	322.0	2.0	0.010	Grey QC str's. blebs. Fine po, cpy
K 4204	-	324.0	2.0	0.002	Fine QC fract's
K 4205	-	326.0	2.0	Nil	ditto
K 4206	-	327.3	1.3	0.004	Qtz dior. Minor pyr in QC seam
K 4207	399.3	400.0	0.7	0.006	35% grey-white QC spks pyr.

SAMPLE RECORD  
DDH M81-3

<u>Sample No.</u>	<u>Footages</u>		<u>Width</u>	<u>Assays</u>	<u>Remarks</u>
	<u>From</u>	<u>To</u>		<u>Au</u>	
K 4208	40.8	43.5	2.7	0.004	6- $\frac{1}{4}$ " QC strcs. 3" qtz, pyr, Zns.
K 4209	46.5	48.9	2.4	0.002	alt'd, minor qtz, diss'd pyr
K 4210	-	51.0	2.1	0.012	50% vein type qtz in Qtz Dior Fine Pyr.
K 4318	68.9	70.5	1.6	0.006	Fine pyr.
K 4211	70.5	73.0	2.5	0.100	$\frac{1}{4}$ ", $\frac{1}{2}$ " banded qtz. Cs. pyr.
K 4319	73.0	74.7	1.7	0.005	$\frac{3}{8}$ " qtz, hvy pyr.
K 4212	74.7	76.9	2.2	0.110	$\frac{1}{4}$ " Zns in QC. $\frac{1}{4}$ " qtz.pyr
K 4320	76.9	80.0	3.1	TR	Fine pyr
K 4213	80.0	80.6	0.6	0.053	$\frac{1}{4}$ " qtz, $\frac{1}{4}$ " qtz. pyr
K 4321	80.6	83.7	3.1	TR	Fine Pyr
K 4214	107.4	108.0	0.6	0.006	$\frac{1}{2}$ " stk. pyr. Minor qtz.
K 4215	111.6	113.7	2.1	0.001	thin pyr. fractcs
K 4216	185.6	187.3	1.7	0.002	as above
K 4217	247.5	250.6	3.1	TR	Few QC seams, pyr
K 4218	253.7	254.2	0.5	0.005	2- $\frac{1}{4}$ " seams QC. Minor pyr.
K 4219	360.3	363.0	2.7	0.002	Fine QC fractcs
K 4220	-	364.0	1.0	0.012	Abund grey QC 2% cs pyr
K 4221	-	365.7	1.7	0.010	Abund QC in sil. altn. 3" QC in HW
K 4222	-	367.3	1.7	0.009	Fine QC fractcs. Spks cpy, po, pyr
K 4223	381.6	383.1	1.5	TR	$\frac{1}{2}$ " grey QC at 20° Fine pyr, chl.
K 4224	411.4	413.4	2.0	Nil	1" QC. chl. Abund QC fractcs.

SAMPLE RECORD  
DDH M81-4

Sample No.	Footages		Width	Assays	Remarks
	From	To		Au	
K4332	26.4	28.0	1.6	0.013	Sericitic + thin str. qtz.
K4333	-	31.9	3.9	0.005	Sericitic 2 3/8" qtz.spks. pyr.
K4334	-	34.6	2.7	Nil	Sericitic barren
K4335	-	38.0	3.4	0.005	Sericitic 3% qtz. blebs <1/3% pyr.
K4322	38.0	39.1	1.1	0.15	Sericitic fine pyr.
K4225	39.1	41.5	2.4	1.800)	39.1-40.9 3% cpy 3% pry.
				0.97 )	40.9-41.5 90% qtz. Fine V.G.
K4323	41.5	43.2	1.7	0.003	Barren qtz. dior.
K4324	-	48.2	5.0	0.003	<1% pyr. 1" grey qtz.
K4325	-	51.9	3.7	0.001	Scant fine pyr.
K4226	51.9	53.3	1.4	0.054	1/4", 1 1/2", 2" grey qtz. minor pyr.
K4239	53.3	55.9	2.6	0.006	1/2", qtz. chl. pyr. Diss'd. pyr.
K4326	55.9	59.7	3.8	0.001	Fine diss'd. pyr.
K4227	59.7	60.5	0.8	0.180	6" grey qtz. cs spks. pyr. cpy. spks. Zn <sup>s</sup>
K4240	60.5	61.5	1.0	0.002	Fine pyr.
K4327	61.5	63.9	2.4	0.001	D, oplite. scant pyr.
K4241	63.9	65.0	1.1	0.016	80% grey qtz. 3/16 white qtz. CS 97 fine arscas?
K4328	65.0	70.0	5.0	0.012	Dior. Fine pyr.
K4329	-	75.0	5.0	0.005	3-1/2" qtz. <1% pyr.
K4330	-	78.1	3.1	0.012	1/2" grey qtz. spks. pyr.
K4228	78.1	81.3	3.2	0.041)	1.45 3-1/2" qtz. str. 3/4 bleb ZnS
				0.67 )	
K4331	81.3	82.2	0.9	0.029	Spks pyr.
K4229	157.8	159.1	1.3	Nil	Thin fract po 12" along core
K4230	207.0	208.7	1.7	Nil	Stks. chl. pyr. QC
K4242	292.9	295.3	2.4	0.002	Minor carb, greenish qtz.
K4231	372.6	373.1	0.5	Nil	1/2" qtz. at 35° Fine pyr. chl.
K4232	378.3	380.1	1.8	0.001	Few stks. QC spks. pyr.
K4234	382.9	384.8	1.9	0.013	60% qtz, QC. Spks. pyr. zns, chl.
K4235	414.8	416.7	1.9	0.003	4", 5" grey and grey white qtz.
K4236	-	418.7	2.0	Nil	Few QC fract. s.
K4237	-	421.0	2.3	0.002	Thin streak QC at 15°
K4238	428.0	428.9	0.9	0.006	4" seam QC. Fine pyr.

SAMPLE RECORD  
DDH M81-5

<u>Sample No.</u>	<u>Footages</u>		<u>Width</u>	<u>Assays</u>	<u>Remarks</u>
	<u>From</u>	<u>To</u>		<u>Au</u>	
K4336	73.0	73.6	0.6	0.007	4" chloritic spks. cpy, po.
K4337	115.4	120.6	5.2	0.037	minor C. Abunt. pyr. frags
K4338	246.6	247.6	1.0	0.001	Fine seams C. Spks. pyr.
K4339	-	252.5	4.9	0.016	3-4" qtz.QC.Thin fract po,cpy,Zns
K4340	-	255.3	2.8	0.005	Short frags pyr, ZnS,Po,cpy 1% Sulph.
K4341	-	255.7	0.4	0.170	Grey qtz. 15% pyr. Spks cpy,arseno
K4342	-	259.9	4.2	0.100	Alt'd. silic'd. brecc'd. 1% cpy 2% pyr.
K4343	-	262.3	2.4	0.037	Alt'd. silic'd. 1% diss'd pyr.
K4344	-	266.1	3.8	0.010	0.5', 0.6', QD 1% cs diss'd. pyr

## SAMPLE RECORD

DDH M81-6

<u>Sample No.</u>	<u>Footages</u>		<u>Width</u>	<u>Assays</u>	<u>Remarks</u>
	<u>From</u>	<u>To</u>		<u>Au</u>	
K 4345	142.8	143.6	0.8	0.009	Pale grey silic'd
K 4346	174.5	175.2	0.9	0.017	Brecc'd qtz. 3/8" qtz. str.
K 4347	-	176.5	1.3	0.012	Thin fract's pyr
K 4348	-	178.8	2.3	0.008	Silic'd. <1% pyr
K 4349	-	184.7	5.9	0.003	ditto
K 4350	-	185.9	1.2	0.020	20% grey qtz. <1% pyr
K 4351	-	186.45	0.55	0.012	1 1/2" qtz str. Brecc'd qtz.
K 4352	-	190.40	3.95	0.002	Qtz. breccia
K 4353	172.3	174.3	1.0	0.001	Fine QC seams

## SAMPLE RECORD

DDH M81-7

<u>Sample No.</u>	<u>Footages</u>		<u>Width</u>	<u>Assays</u>		<u>Remarks</u>
	<u>From</u>	<u>To</u>		<u>Au</u>		
K4354	63.0	64.9	1.9	0.019		4" qtz. at 30°
K4355	83.0	86.0	3.0	0.010		3/16" pry. scant cpy.
K4356	-	89.1	3.1	0.015		1" QC 1/2" qtz.spks.pyr.cpy.
K4357	-	94.0	4.9	0.004		1" QC 1/2" qtz.spks.pyr.cpy.
K4358	-	99.0	5.0	0.071		1/2" 1% pyr.spks.po.cpy.
K4359	126.0	130.0	4.0	Nil		chloritic.spks.pyr
K4360	136.6	137.0	0.4	0.001		50% pyr. 30% white qtz.
K4361	147.1	149.9	2.8	Nil		3/8" qtz. po.cpy. 1/4" qtz. pyr.
K4361	-	154.6	4.7	0.002		10% white qtz. str.
K4363	247.0	249.6	2.6	0.062		Silic'd. chloritic. Fine pyr.

SAMPLE RECORD  
DDH M81-8

Sample No.	Footages		Width	Assays	Remarks
	From	To		Au	
K 4364	56.5	61.1	4.6	0.042	<1% pyr. 2% qtz, pyr
K 4365	-	61.7	0.6	0.081	60% qtz. Fine pyr
K 4366	-	66.4	4.7	0.003	1/2" qtz. <1/2% pyr
K 4367	-	71.4	5.0	0.001	scant pyr
K 4368	-	76.2	4.8	0.002	ditto
K 4369	-	79.9	3.7	0.003	<1/2% pyr
K 4370	-	84.7	4.8	0.001	4% white QC str.
K 4371	-	89.5	4.8	Nil	2% QC in seams
K 4372	164.5	166.3	1.8	0.016	minor qtz seams. Pyr, cpy
K 4373	207.4	209.1	1.7	Nil	dike qtz. Spks. chlor.
K 4374	222.8	224.5	1.7	Nil	Felsite. spks chl.
K 4375	228.5	232.7	4.2	0.001	<1/2% diss'd pyr
K 4376	-	234.9	2.2	0.43	40% white qtz. Fine pyr
K 4377	323.0	324.1	1.1	0.003	Fine pyr. po
K 4378	-	324.5	0.4	2.0	White and grey qtz. spks V.G.
K 4379	-	326.35	1.85	0.020	3/8" grey QC. Fine pyr
K 4380	-	326.85	0.5	0.29	90% grey-white qtz. spks po, chl.
K 4381	-	327.85	1.0	0.004	Fine pyr, po
K 4382	337.8	340.0	2.2	0.009	1/2" qtz, pyr, po, cpy, arseno. 3/16" qtz.



## SAMPLE RECORD

DDH M81-9

Sample No.	Footages		Width	Assays	Remarks
	From	To		Au	
K 4383	56.2	58.1	1.9	0.002	5% QC 3/4" qtz. Spks chl, pyr.
K 4384	-	58.9	0.9	0.007	3" qtz. 5" green carb 1/2" qtz. pyr
K 4385	-	63.0	4.1	0.003	Sericitic Minor qtz in 3/16" strs
K 4386	90.7	93.7	3.0	Nil	Alt'd. chl, minor chl, pyr
K 4387	-	95.2	1.5	0.002	Alt'd green carb. typical 3" qtz.
K 4388	106.3	108.5	2.2	Nil	Silic'd Minor chl, spks pyr
K 4389	130.1	134.7	4.6	0.150	Sericitic 5% qtz strs.
K 4390	-	138.0	3.3	0.002	Ltly alt'd 2-1/8" qtz strs.
K 4391	-	142.1	4.1	0.001	ditto
K 4392	-	145.1	3.0	0.02.1	5' grey qtz breccia w/20% cpy, po. Spic 50% Zns. 6" qtz. Fine pyr, arseno, blue mineral
K 4393	-	148.0	3.9	0.003	Few qtz seams
K 4394	-	151.3	3.3	0.006	Ltly alt.d few qtz. seams
K 4395	153.3	155.0	1.7	0.001	ditto. 5% impure qtz
K 4396	-	156.1	1.1	0.009	1" qtz. 6" qtz w/2% Zns, spks pyr
K 4397	-	159.0	2.9	0.006	5% qtz. Minor pyr in stks, diss'd
K 4398	168.0	173.0	5.0	0.002	Felsite. Sericitic Minor qtz fract's
K 4399	-	179.6	6.6	0.002	ditto
K 4400	182.4	187.4	5.0	TR	4 thin seams silicn.
K 4286	195.6	199.2	3.6	0.003	Sericitic. Few fract's pyr
K 4287	-	202.1	2.9	0.017	Sericitic 5% grey silic'n
K 4288	226.7	228.0	1.3	0.001	Alt'd breccia

## SAMPLE RECORD

DDH M81-10

<u>Sample No.</u>	<u>Footages</u>		<u>Width</u>	<u>Assays</u>		<u>Remarks</u>
	<u>From</u>	<u>To</u>		<u>Au</u>		
K4289	377.5	378.0	0.5'	0.140		1" irreg. bleb qtz.
K4290	456.2	457.5	1.3	TR		1" and 3-1/8" sems QC
K4291	480.9	483.8	2.9	TR		altn. zone brownish matter
K4292	483.8	487.0	3.2	TR		15% QC. 5" grey silca w/20% QC

## D.D.H. M81-11 LIST OF SAMPLES

Sample No.	Footages			Assays oz. Au	Remarks
	From	To	Width		
K3801	60.3	62.2	1.9	0.071	
02	113.9	119.6	6.3	0.007	
03	119.6	120.6	1.0	0.005	
04	124.5	125.5	1.0	0.012	
05	133.0	135.4	2.4	0.007	
06	138.0	139.0	1.0	0.004	
07	139.0	140.3	1.3	0.009	CK. Assay 0.019 (Vein)
08	140.3	141.3	1.0	0.002	
09	141.3	145.8	4.5	0.001	
10	145.8	148.3	2.5	0.007	
11	172.3	173.6	1.3	TR	
12	175.4	176.8	1.4	0.003	
13	203.0	206.5	3.5	TR	
14	206.5	209.2	2.7	NIL	
15	209.2	210.2	1.0	0.001	
16	210.2	215.1	4.9	0.006	

D.D.H. M81-13

## LIST OF SAMPLES

Sample No.	Footages			Assay	Remarks
	From	To	Width	oz. Au	
K3844	19.0	21.7	2.7	0.160	
45	34.4	38.8	4.4	0.003	
46	38.8	40.8	2.0	NIL	
47	89.0	93.0	4.0	0.003	
48	93.0	96.4	3.4	0.009	
49	147.4	149.1	1.7	NIL	
50	149.1	153.0	3.9	0.001	
51	153.0	154.5	1.5	NIL	
52	154.5	158.5	4.0	0.049	
53	204.0	205.4	1.4	0.029	

SAMPLE RECORD  
DDH C81-1

<u>Sample No.</u>	<u>Footages</u>		<u>Width</u>	<u>Assays</u>	<u>Remarks</u>
	<u>From</u>	<u>To</u>		<u>Au</u>	
K9307	36.1	36.5	0.4	0.018	Silc'd. alt'd. scant qtz. pyr.
K9308	221.5	222.2	0.7	0.002	3" - 80% QC. Spks.pyr. Fault
K9309	245.4	245.8	0.5	0.002	90% qtz. QC. Spks. pyr.
K9310	266.6	267.0	0.5	Nil	½", ¾" qtz. in fault
K9311	424.7	425.1	0.4	0.036	25% qtz. fine pyr. po. cpy.
K9312	425.6	427.0	1.4	0.044	5% pyr. po. cpy.
K9313	427.8	429.3	1.5	0.077	3 to 5% po, pyr. spks. cpy.
K9314	490.7	491.3	0.6	0.030	minor grey QC, spks. pyr.
K9315	505.5	505.9	0.4	0.200	1" grey QC 3% pyr. po. cpy.
K9316	605.9	606.6	0.7	0.009	3% grey QC. Spks. po.
K9317	650.3	650.8	0.5	0.130	¼", ½" grey QC. Spks. pyr.
K9318	722.6	725.5	2.9	0.226	15% grey white QC Spks. pyr. po.
K9319	835.5	840.5	5.0	0.002	5% QC in fract's
K9320	945.0	945.6	0.6	0.004	creamy qtz. QC in fract's

## SAMPLE RECORD

DDH C81-3

Sample No.	Footages		Width	Assays	Remarks
	From	To		Au	
K9352	5.5	8.2	2.7	TR	2% qtz. 2 Y. pyr. scant cpy.
K9353	-	12.4	4.2	0.003	40% qtz. 8% po. scant cpy.
K9354	-	16.3	3.9	Nil	1% po. Spks. pyr. cpy. Minor qtz.
K9355	-	17.9	1.6	0.004	4% po. 1% pyr. ½% cpy. 10% qtz.
K9356	-	20.9	3.0	0.024	minor po. pyr. cpy.
K9357	-	25.9	5.0	0.002	minor po. pyr. cpy. 3% qtz.
K9358	249.8	252.2	2.4	0.001	25% carb. scant qtz. 1/16, ¼" pyr.
K9359	253.8	255.0	1.2	0.001	Felsite. Diss'd. pyr.
K9360	431.3	434.5	3.2	0.002)	
			Cu	0.15 )	4% po. minor cpy. Zns.
			Zn	0.99 )	
K9361	-	439.0	4.5	0.002+	
			Cu	0.31 +	15% po. 1% cpy. minor Zns. pyr.
			Zn	0.58 +	
K9362	-	445.1	6.1	TR*	
			Cu	0.17*	2% po. minor cpy. 1% Zns
			Zn	0.62*	
K9363	-	450.8	5.7	0.003)	
			Cu	0.60 )	3% po. 1% cpy. 1% Zns.
			Zn	0.63 )	
K9364	-	453.1	2.3	0.001+	
			Cu	0.20 +	8% po. 1% cpy. 1% Zns.
			Zn	0.88 +	
K9365	-	455.2	2.1	0.001*	
			Cu	0.13 *	1% po. ½% cpy. 1% Zns.
			Zn	0.94 *	
K9366	979.3	981.0	1.7	0.041)	5% qtz. qtz. carb. in shear
K9367	983.1	987.8	4.7	0.046	40% grey qtz. 1% pyr. shear
K9368	-	992.6	4.8	0.006	minor silc'n. carb. shear
K9369	634.6	635.1	0.5	0.002	95% qtz. grey white, glassy
K9370	655.8	656.6	0.8	TR	Qtz. str. up to 4" spks. pyr. cpy.
K9371	805.5	810.5	5.0	0.007	Felsic shear. silic'd. 12" fault
K9372	-	816.1	5.6	0.001	Felsic shear. chloritic
K9373	-	817.9	1.8	TR	Felsic shear. as K9371
K9374	866.8	867.6	0.8	0.002	Scant chl. pyr.
K9375	950.2	950.65	0.45	Nil	2 - ¼ blebs moly.

E 10 SW JJ 2

# DIAMOND DRILL RECORD

NAME OF PROPERTY Kenora Prospectors (Cedar Island Mine)  
 HOLE NO. C81-1 LENGTH 1049'  
 LOCATION On Cedar Island  
 LATITUDE 9191.77N DEPARTURE 3578.87E  
 ELEVATION 5002.93 AZIMUTH 45° DIP 74°  
 STARTED June 7/81 FINISHED June 14/81

FOOTAGE	Acid		Pajari		FOOTAGE	Acid		Pajari	
	DIP	AZIMUTH	DIP	AZIMUTH		DIP	AZIMUTH		
0	74°	45°00'	600	71°	46°00'				
200	74°	46°30'	700	71°	-				
300	74°	-	800	71°	45°00'				
400	73°	54°050'	900	71°	-				
500	72°	-	1000	70°	48°00'				

HOLE NO. C81-1 SHEET NO. 1 of 7  
 REMARKS Hole stayed straight  
Drilled 149' farther  
than planned  
Casing in shattered  
rock  
 LOGGED BY C.F. Desson

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS							
FROM	TO		NO.	SULPHIDES	FOOTAGE		Au						
					FROM	TO	TOTAL	%	%	OZ/TON	OZ/TON		
0	4.0	Casing											
4.0	8.0	Andesite: fine grained, dark green, massive. Scant, very fine disseminated pyrite and pyrrhotite.											
8.0	25.2	Andesite: fine grained, pale green. Abundant bleached hairline fractures with fine pyrite. At 16.8: thin seam quartz-carb. at 10° to core axis.											
25.2	118.0	Andesite: as at start. Few pale hairline fractures. Local light areas. 36.1-36.5: altered and silicified. Fine pyrite. Small bleb grey qtz. At 112: ¼" grey silicified stringer at 30° to core. Few small feldspathic spots near end			36.1	36.5	0.4				0.018		
118.0	183.0	Spotted Andesite: fine grain, dark green, massive. Scant very fine disseminated pyrite. 2% "spots" up to ¼" dia. At 142.2; 144.0; 145.2; 1½", 1" and 1½" aplite dikelets CA 80°. 130 on: paler with local bleached fractures. At 144.6: 1" grey, porous, qtz. + carb. Possible fault. At 153.6: 2" pink aplite w/grey qtz. At 159.6: 1" grey porous qtz. - carb. Possible fault. 162.0-183.0: spots, more abundant. 5%. 179.4-183.0: abund. pale hairline fract.											
183.0	214.0	Andesite: fine grain, dark green, massive. At 187: 1" porous qtz. - carb. with coarse pyrite. Poss. fault. At 198.8: ¼" as above 201.0 - 214.0: Generally paler bleached.											

LANGRIDGE LIMITED - TORONTO - 366-1168

E 10 SW JJ 2

# DIAMOND DRILL RECORD

NAME OF PROPERTY: Kenora Prospectors (Cedar Island Mine)

HOLE NO. C81-1 SHEET NO. 2 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		ID	DIAMETER INCHES	FOOTAGE			%	%	OZ TON	GZ TON	
					FROM	TO	TOTAL					
214.0	284.0	<p><u>Spotted Andesite</u>: fine grain, pale greyish green with local darker areas. Abundant hairline fractures.</p> <p>221.5-222.2: 3" of 80% white vuggy calcite and qtz. with pyrite in broken probable fault zone.</p> <p>At 236.5: ½" white qtz-carb.</p> <p>At 245.4: 2" 90% irregular qtz-carb. grey. CA45°.</p> <p>266-284: pale green. Large "spots" up to 1½" near end.</p> <p>266.6-267.0: Brecciated Fault with ¾" grey, vein qtz in H.W. and ½" grey vein qtz. in F.W. CA 50'.</p> <p>278.0-278.4: pink aplite. CA 70'.</p>			221.5	222.2	0.7			0.002		
					245.4	245.8	0.5			0.002		
					266.6	267.0	0.5			NIL		
284.0	297.2	<p><u>Andesite</u>: fine grained, pale green, massive. Few qtz-carb. Seams and blebs.</p>										
297.2	312.9	<p><u>Fault Zone</u>: altered recrystallized, feldspathic. Typical Keewatin Fault Zone in volcanics. Several blebs of pink aplite with coarse quartz. 12" lost core. (Water lost at 308.0).</p> <p>297.2-298.3: Feldspar Porphyry. CA at F.W. 80°.</p> <p>At 305.3: 4" pink aplite as above.</p> <p>308.0-312.9: altered feldspathic wall of fault zone</p>										
312.9	327.0	<p><u>Andesite</u>: fine grained, medium to pale green. Abundant seams white quartz-carbonate up to ½".</p>										
327.0	337.4	<p><u>Bastard Lamprophyre</u>: Dark med. grained, mass. Few qtz-carb. seams. (hornblende lamprophyre).</p>										
337.4	476.8	<p><u>Andesite</u>: as at 284</p> <p>373.1-377.1: coarser grained, feldspathic</p> <p>377.5-377.9: pink aplite. CA35.</p> <p>424.7-425.1: silicified plus quartz seam. Fine cpy. pyr. and po.</p> <p>425.7-429.3: brecciated, altered and lightly silicified. Abundant fine pyr. and po. scant chlorite (1% sulphides).</p> <p>434-438.7: paler feldspathic alteration</p>			424.7	425.1	0.4			0.036		
					425.6	427.0	1.4			0.044		
					427.8	429.3	1.5			0.077		

LANGRIDGE LIMITED - TORONTO - 366-1168

FORM 2



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# DIAMOND DRILL RECORD

NAME OF PROPERTY Kenora Prospectors (CEDAR ISLAND MINE)  
 C81-1  
 HOLE NO. C81-1 SHEET NO. 3 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO	% SULPHIDES	FOOTAGE		Au			
				FROM	TO	TOTAL	1	2	D/T 10W	D/T 10W
		439.3-440.8: Porphyritic felsite dike. Pale grey with biotite clusters (derived from granodiorite) (aplitic). 446 area: few "spots" (as in spotted andesite) 467.6-468.9: Porphyritic felsite dike as at 439.3. CA HW 85 (aplitic) 471.9-476.8: pinkish aplite dike. CA at HW and FW 80° with brownish alteration in the wall rock.								
476.8	482.0	<u>Spotted Andesite:</u> fine grained, pale green. One 1/8" white qtz. carb. seam.								
482.0	491.1	<u>Andesite:</u> as at 337.4. 482.0-484.4: Feldspathic felsite dike (quartz porphyry?). Fine pyr. + po. CA at HW and FW 55°. 487.0-487.3: altered with fine pyr. and po. Two 1/8" grey qtz.-carb. seams 487.3-490.7: Bastard Lamprophyre. Coarse, mass. fine po. in walls. 490.7-491.1: grey, pyritized quartz. Pyr. and po. in FW for 2".								
491.1	527.5	<u>Andesite:</u> pale green, coarser grained, massive. Abundant pale hairline fractures. 495.4-495.8: felsite dike. pale pinkish grey. 501.1-501.2: as above 504.9-505.6: felsite dike. Greyish, siliceous with pink fractures. At 505.7: 1" abundant pyr. and po. 505.7-505.8: grey quartz with fine pyrite. 519.6-522.7: granodiorite dike. Coarse grain, massive. At 526.3: 1" aplite.		490.7	491.3	0.6			0.030	
				505.5	505.9	0.4			0.200	
527.5	535.9	<u>Spotted andesite:</u> pale green, altered 528.1-529.5: Silicified, etc. - Fine pyr. and po. and specks cpy.								

LANGRIDGE LIMITED - TORONTO - 366-1168

E 10 SW JJ 2

# DIAMOND DRILL RECORD

NAME OF PROPERTY Kenora Prospectors (Cedar Island Mine)

HOLE NO. CHI-1 SHEET NO. 4 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	SULPH IDES	FOOTAGE			Au				
					FROM	TO	TOTAL	%	oz ton	oz ton	oz ton	
535.9	570.4	<u>Andesite:</u> fine grained, pale green massive. Few qtz-carb seams. 538.8-540.8: felsic dike. Pinkish aplitic. 548.8-557.7: aplite, pink, fine grained, mass. 558.3-559.1: 80% quartz-carb. CA80°. 561.8-563.4: Felsite dike. Pale creamy grey. At 569:1" qtz-carb. 50°.										
570.4	572.7	<u>Spotted Andesite:</u> as before										
572.7	581.8	<u>Andesite:</u> as at 535.9. Abund. pale green hairline fractures. 572.9-573.5: Felsite dike. Pale creamy grey. CA at FW 50° 579.7-581.2: Felsite dike. Slightly feldspathic. Quartzose.										
581.7	590.3	<u>Spotted Andesite:</u> as before. Fine fractures.										
590.3	609.3	<u>Andesite:</u> as at 572.7. Local darker sections. Fine fractures. 600.7-601.9: Few white qtz-carb. seams up to 1/4" at 15° to core. 606.0-606.6: 30% white quartz-carb in 1/4" to 1" seams. At 15° to core.			605.9	606.6	0.7			0.009		
609.3	620.6	<u>Spotted Andesite:</u> as before At 616.6: 1" pink aplite										
620.6	628.2	<u>Andesite:</u> As at 590.3. 620.6-621.2: Quartz Feld Porphyry. Med. grained. (granodiorite phase). At 621.7: 1" qtz-carb. 623.4-625.3: dike as at 620.6.										
628.2	629.0	<u>Spotted Andesite:</u> darker than above. Abund. fine fract.										
629.0	635.0	<u>Andesite:</u> As before 631.0-633.8: Granodiorite dike. Med. grained with fine grained walls.										

LANGRIDGE LIMITED - TORONTO - 366.1168

# DIAMOND DRILL RECORD

NAME OF PROPERTY Kenora Prospectors (Cedar Island Mine)  
 HOLE NO. C81-1 SHEET NO. 5 of 7

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FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO	% SULPHIDES	FOOTAGE		%	%	OZ TON	OZ TON	
					FROM	TO					TOTAL
635.0	636.0	<u>Spotted Andesite:</u> as before.									
636.0	640.0	<u>Andesite:</u> as before.									
640.0	722.6	<u>Spotted Andesite:</u> as before. 650.6: ¼" and ½" grey qtz. stringer pyr. At 655.4 5" greenish altn. 1" qtz. + pyr. At 664.5: 3/8" aplite dikelet. 673.9-678.6: <del>Qz</del> Med. to coarse grained. CA at 675.5. CA at FW 87°. At 678.8: 1" aplite. 687.3-694.5: granodiorite dike. Med. to coarse grained, grey massive. HW 45° FW 45°. 697.2-700.6: Quartz Feld. Porphyry. Fine and med. grained 718.5-719.3: Aplite. Coarse, pinkish cream.			650.3	650.8	0.5			0.130	
722.6	725.5	<u>Andesite:</u> Altered. 15% white qtz-carb. in stringers up to ¼". CA 40°.			722.6	725.5	2.9				0.226
725.5	814.9	<u>Spotted Andesite:</u> Typical fine grained, dark green, massive. 736.2-739.5: Quartz, feldspar porphyry as above. 748.4-753.8: granodiorite, coarse grained, grey, massive 755.8-761.5: granodiorite as above 765.0-777.0: paler green At 766.5: ½" grey quartz-carbonate at 5° to core. 769.8-771.8: granodiorite CA of FW 40°. At 771.8: ½" grey quartz. At 801: ½" aplite. At 802: 1½" white quartz-carbonate. CA 40°. At 809.3: 2" coarse aplite.									

LANGRIDGE LIMITED - TORONTO - 366.1168

E 10 SW JJ 2

# DIAMOND DRILL RECORD

NAME OF PROPERTY Kenora Prospectors (Cedar Island Mine)

HOLE NO. C81-1 SHEET NO. 6 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHUR IDES	FOOTAGE		Au				
					FROM	TO	TOTAL	%	%	GT TON	GT TON
814.9	842.3	<p><u>Andesite:</u> pale green with darker areas. Abundant fractures with quartz-carb.</p> <p>824.8-825.5: felsite dike.</p> <p>835.3-840.4: thinly contorted, schisted. 5% quartz-carb. in fractures.</p>			835.5	840.5	5.0			0.002	
842.3	1025.5	<p><u>Spotted Andesite:</u> As at 725.5 etc.</p> <p>At 864: 1" aplite.</p> <p>At 865.1: 1½" grey quartz-carbonate.</p> <p>880.5-881.2: aplite, coarse with 1" grey-white quartz.</p> <p>885.4-886.5: granodiorite, grey, typical med. grained.</p> <p>888.4-889.3: felsite, pale, silicified.</p> <p>896.4-906.7: granodiorite, med. and coarser phases.</p> <p>906.7-907.85: hornblende lamprophyre, bastard type.</p> <p>At 907.85: ¾" grey quartz.</p> <p>At 910.3: ¼" chilled seam plus pyrite. CA 15°.</p> <p>At 912.4: ¼" grey quartz-carbonate.</p> <p>910.3 to 935: several pale seams with pyrite skim on fractures.</p> <p>At 930.8: 1" grey-white quartz carbonate.</p> <p>At 935.3: 4" grey granodiorite with chilled walls.</p> <p>939.3-941.7: granodiorite, coarse, massive.</p> <p>943.7-944.7: granodiorite. Quartz blebs in FW. HW contact 20°.</p> <p>945.0-945.6: creamy, quartz with carbonate fractures CA 85°.</p> <p>948.6-952.6: granodiorite, fine grained siliceous felsitic.</p> <p>At 955: 1½" granodiorite.</p> <p>At 957.3: ¼" granodiorite.</p> <p>958.0-959.8: granodiorite (typical).</p> <p>960.2-962.7: granodiorite siliceous sections.</p>			945.0	945.6	0.6			0.004	

LANGRIDGE LIMITED - TORONTO - 366-1168

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## DIAMOND DRILL RECORD

NAME OF PROPERTY Kenora Prospectors (Cedar Island Mine)HOLE NO. C81-1 SHEET NO. 7 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO	% SULPHIDES	FOOTAGE		%	%	GT TON	GT TON
				FROM	TO	TOTAL				
		At 967.0: 3" granodiorite								
		968.7-970.1: granodiorite								
		972.5-998.6: granodiorite - med. to coarse with fine siliceous centre.								
		At 988.6 and 990.0: ½" sections siliceous.								
		991.1-999.5: granodiorite.								
		At 996.3: ½" granodiorite at 20°.								
		1001.0-1005.5: granodiorite.								
		At 1005.5: 1" grey quartz.								
		1005.6-1006.3: granodiorite.								
		1006.7-1007.7: granodiorite at 20°.								
		1008.5-1008.9: 2" aplite, 2" grano., 3/4" quartz.								
		1009.1-1010.0: aplite.								
		1010.0-1014.4: granodiorite.								
		1015.8-1016.2: granodiorite.								
		1016.6-1017.0: granodiorite.								
		1017.1-1018.2: granodiorite.								
		1019.9-1025.5: granodiorite.								
		1025.5-1049.0: granodiorite.								
1025.5	1049.0	Andesite: fine grained, dark green, massive.								
		1032.9-1033.1: granodiorite.								
		1035.0-1049.0: granodiorite.								
		1049.0: Hole Bottom.								
		Casing left in (temporarily).								

LANGRIDGE LIMITED - TORONTO - 366-1168

# DIAMOND DRILL RECORD

NAME OF PROPERTY Kenora Prospectors (Cedar Island Mine)  
 HOLE NO. C81-2 LENGTH 998'  
 LOCATION On West Shore of Cedar Island  
 LATITUDE 9229.02N DEPARTURE 3479.08E  
 ELEVATION 4972.00 AZIMUTH 38° DIP -67°  
 STARTED June 19/81 FINISHED June 29/81

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	67		997	60	
200	64				
400	63				
600	63				

HOLE NO. C81-2 SHEET NO. 1 of 1  
 REMARKS Pay close attention to the felsic shears w/pts. Could be vein breaks  
 LOGGED BY C.F. Desson

FOOTAGE		DESCRIPTION	SAMPLE			ANALYSIS	
FROM	TO		NO.	FOOTAGE		%	oz/ton
				FROM	TO		
0	5.5	Casing					
5.5	20.1	<p>TUFF: Brownish streaks in grey and greenish grey matrix. Abundant fine fract's with grey and white qtz and qtz-carb. plus Q-C in blebs. Abundant grey and grey white vein qtz. with carb. all at low angle to core axis. Core ground and lost in many sections. CA at 8'-35'; 9.5-40°; 14'-40°; 17' irregular 30°. Local areas heavy po &amp; little cpy and pyr.</p> <p>5.5-6.2: grey, glassy brecc'd qtz. Minor carb. Scapt chlor. 1% po &amp; spks pyr and cpy. HW and FW irregular 20°</p> <p>7.2-7.7: 90% grey qtz:carb. Minor po and cpy</p> <p>8.3-9.4: grey and grey;white qtz w/carb. in fract's. Minor chlorite. 5% cs pa. spks cpy and pyr. HW 40° FW 35°</p> <p>9.75-10.75: grey white qtz. w/carb. in fract's. Minor chlorite. Clusters fine po and cpy and pyr. HW irreg. FW 20°</p> <p>11.95-12.30: 70% grey qtz. and chlor. Minor pyr and po and cpy.</p> <p>15.75-16.20: grey qtz and carb. in fract's. Minor clusters fine po and pyr and cpy</p> <p>16.20-17.3: Tuff 5% po. Minor cpy and pyr in clusters and in fract's. CA irreg. 30'</p> <p>17.8-20.1: 15% grey qtz and carb in blebs and fract's. Clusters of heavy po and cpy and minor pyr.</p>		5.5	6.2	0.7	0.048
				-	7.2	1.0	TR
				-	7.7	0.5	0.007
				-	8.3	0.6	0.007
				-	9.4	1.1	0.003
				-	9.7	0.3	0.002
				-	10.75	1.05	TR
				-	11.95	1.2	NIL
				-	12.3	0.35	0.003
				-	15.75	3.45	0.004
				-	16.2	0.45	0.043
				-	17.3	1.1	0.005
				-	17.8	0.5	TR
				-	20.1	2.3	TR
20.1	24.4	<p>ANDESITE: dk. brownish green alt'd, figr. well fract'd with Q-C in fract's. At 22.0: few clusters fine pyrite in irregular fract's</p>					

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# DIAMOND DRILL RECORD

NAME OF PROPERTY Kenora Prospectors (Cedar Island Mine)

HOLE NO. C81-2

SHEET NO. 3 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS		
FROM	TO		NO	DEPTH FEET	FOOTAGE		AU	
					FROM	TO	GE TON	GE TON
238.4	262.4	ANDESITE: figr. med. grey-green, carb't'z'd and well fract'd with greyish-white carb in fract's. Slightly magnetic 251.0-262.4 FAULT ZONE. talcose, greyish brown med. gr. alt'd and carbonatized. CA 40° 253.8-255.0: 80% whitish grey qtz;carb. 255.0-255.6: 1/4" grey qtz;carb on side of core At 256: 1/4" grey qtz at 35° 258.9-259.2: grey qtz;carb 261.0-262.4: 90% irreg. whitish-grey qtz-carb.	253.8	255.6	1.8	0.001 NIL NIL		
			258.8	261.0	2.2			
			-	262.4	1.4			
262.4	281.7	ANDESITE: (dioritic) figr. to med. gr. dk. green, mass. becoming finer gr. and alt'd near end (non magnetic) At 272: 2" pink aplite						
281.7	296.2	ANDESITE: bronwish hue, alt'd and carbonatized w/abund white carb. in fract's. At 281.7: 1 1/4" aplite and qtz. 285.1-291.4: Alt'n zone. Poss. tuff. grey, figr. carb't'z'd. Abund white carb fract's and minor seams qtz. Areas cs pyr. 289.3-290.1: felsic feld. porph. with 1" qtz in center	285.1	289.3	4.2	0.018		
296.2	323.6	ANDESITE: figr. mass. dk. green. Sltly magnetic At 309; 311: 1/8" po in fract At 313; 314; 319: low angle fract's w/po and pyr 310.0 on: becomes paler grey 316.0-316.5: pink aplite. Figr. HW & FW 40° 316.7-323.6: local figr. area w/cs. po & pyr. diss'd and in fract's At 323.1: 1/4" pink aplite at 35°						

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# DIAMOND DRILL RECORD

NAME OF PROPERTY Kenora Prospectors (Cedar Island)

HOLE NO C81-2 SHEET NO 6 of 8

E 10 SW JJ 2

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO	% SULPHIDES	FOOTAGE	%	OF TON		
					Au				
					FROM	TO	TOTAL	OF TON	OF TON
323.6	376.0	ANDESITE: dioritic, stly magn. f gr. med. green, mass. Grades to pale grey alt'd near end. At 327.3 and 327.6: 1" aplite dikelets at 70° and 80° 339.4-340.6: aplite med. to cs. gr. pinkish grey 364.8-365.5 and 368.7-369.1: aplite, brownish pink							
376.0	428.9	TUFF: grey alt'd with blackish beds and grey mass. beds. Areas heavy cs po with lesser cpy and minor pyr and sphal. 376.0-381.3: grey alt'd CA variable 30°-45° 381.3-384.3: black 384.3-385.7: as at start 385.7-397.4: mass. figr. grey 397.4-400.7: blakc. 5% hvy po & minor cpy and sphal in fract 400.7-406.6: grey and sulph. (po and pyr and cpy) CA 45° 407.2-423.8: pale grey mass. 423.8-428.9: thinly bedded CA variable 35°-60°			379.0	381.3	2.3		0.011
				-	384.6	3.3		0.002	
				-	386.9	2.3		0.002	
				397.4	400.7	3.3		0.009	
				-	405.7	5.0		0.001	
				-	410.7	5.0		0.006	
				423.8	428.9	5.1		0.002	
428.9	442.5	ANDESITE: pale greenish-grey, alt'd and fract'd with thin carb. seams to 437 and becomes dker.							
442.5	449.4	ANDESITE: (dioritic) med. gr. mass. 447.0-448.0: felsite dike, pale grey							
449.4	505.9	ANDESITE: f. to med. gr. dk. green, mass. 454.7-455.6: alt'd and fract'd as at 428.9 460.0-462.1: aplite, pinkish 483.8-487.4: bastard horn. lampr. feld spathic. As in C81-1. 491.9-492.7: qtz. diorite figr. with cs. walls 492.7-497.8: aplite, cs. pale pink. cser grano near FW 497.8-499.7: qtz diorite 502.5-505.9: qtz diorite figr felsic in FW							

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# DIAMOND DRILL RECORD

NAME OF PROPERTY Kenora Prospectors (Cedar Island Mine)

HOLE NO. C81-2

SHEET NO. 5 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO	% SULPHIDES	FOOTAGE		Au		
				FROM	TO	TOTAL	%	OF TON	OF TON
505.9	570.1	ANDESITE: figr. pale alt'd w/brownish hue and abund chilled fract's w/carb. At 507.5: 5" qtz diorite At 508.8: 1" white qtz 523.5-528.3: aplite, brownish-pink. HW & FW 40° At 525.0: grey incl (4") At 531.4: 1" grey F.P. at 40° 532.0-535.4: aplite, pink HW and 70° grey FW and 80° At 548.9: 2" white qtz carb. 550.9-553.5: aplite, figr reddish pink. ¼" grey Q-C in HW FW 70° irreg. 561.0-564.2: aplite as above 562.9 & 563.5: ¼" and ½" grey watery qtz. w/hvy conct'n po & pyr & spks cpy. At 563.9: ¼" x 1" bleb po & cpy 569.1 + 570.1: aplite, reddish pink							
570.1	577.8	ANDESITE: med. green, mass. Local paler green alt'n							
577.8	598.0	SPOTTED ANDESITE: dark green grading to pale green							
598.0	604.0	ANDESITE: pale green alt'd. Abund white carb. fract's							
604.0	609.7	SPOTTED ANDESITE: light and dark areas. Few carb. fract's							
609.7	625.2	ANDESITE: pale green alt'd. Abund carb. fract's local small areas brownish hue. 618.0-623.4: aplite, brownish pink At 623.4: FAULT 3" broken and mudded with carb. cementing and cs pyr							
625.2	629.0	SPOTTED ANDESITE: as above							
629.0	637.5	ANDESITE: pale, brownish, alt'd as before 636.8-637.5: Feld. Porph. figr. brownish cast							

LANGRIDGE LIMITED - TORONTO - 366-1168

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# DIAMOND DRILL RECORD

NAME OF PROPERTY Kenora Prospectors (Cedar Island)

HOLE NO C81-2 SHEET NO 6 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS	
FROM	TO		NO	FOOTAGE		Au	
				FEET	FROM	TO	OF 100
637.5	643.0	SPOTTED ANDESITE: dk. greenish. Few scatt. "spots". 638.0-642.0: Several aplite dikelets up to 1" at all angles					
643.0	667.9	ANDESITE: figr. dk. green, mass. 8" pale alt'n with epidote at start. Few white carb. fract's. 644.0 area: ¼" pink aplite at 5° 657.8-659.3: felsite figr. pale grey. Minor OC & pyr. in fract's and little diss'd pyr. <u>Poss. vein shear?</u> < 1% cs pyr. ¾ qtz. str. up to ½" 659.3-660.8: qtz. diorite, alt'd greyish, waxy. Scant pyrite ltly carb't'z'd plus greyish carb. in fract's 660.8-667.9: Qtz. diorite. Grey, med. gr. cser. than above. Scant pyr. Sltly carb't'z'd plus carb. in fract's with dendritic flecks magn? Scant carb. in fract's & fine pyr		657.8	659.3	1.5	0.047
667.9	685.4	SPOTTED ANDESITE: figr. dk. green. Alt'd and fract'd at start. Abundant hairline fract's w/carb 679.5-681.4: Qtz. diorite med-cs grained At 679.7: 1" sand incl.					
693.0	757.6	SPOTTED ANDESITE: as above. Dk. green, abund "spots" 705.7-709.1: qtz. diorite. Grey med. gr. mass. At 706.1: 2" pink aplite 710.0-711.5: qtz. diorite. ptic. Well developed feld At 712: 3" cs aplite w/brown rusty contacts 713.1-716.3: Quartz diorite. HW 55° FW 30° 729.6-730.4: Qtz. diorite. med gr. pinkish HW. HW 55° FW 50° At 740: 1" grans at 40° 741.1-741.8: Qtz. diorite. Porphyritic.					
757.6	774.0	ANDESITE: pale green, figr. mass. Local brownish hue and carb in fract's At 761: 1" epid. altn at 45° At 762: ¼" grey qtz. & carb 763.8-768.0: felsite. pale grey mass.					

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# DIAMOND DRILL RECORD

NAME OF PROPERTY Kenora Prospectors (Cedar Island Mine)

HOLE NO. C81-2 SHEET NO. 7 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS	
FROM	TO		NO.	FOOTAGE		Au	
				FROM	TO	Gr ton	Gr ton
774.0	806.0	SPOTTED ANDESITE: figr. dk. green well fract'd w/thin carb seams. Locally brecc'd, finer gr. alt'd w/less spots near end					
806.0	831.9	ANDESITE: pale green, figr. mass. Grades into Spot. And at end 809.4-812.1: Alt'n Zone. 20% white carb & minor banded Qtz at start 813.7-814.2: felsite, grey 831.6-831.9: Qtz. diorite. Ptic. grey, cs gr.		809.4	812.1	2.7	NIL
831.9	904.9	SPOTTED ANDESITE: figr. med green, mass with thin hairline carb. fract's At 843.2: 2" aplitic dikelet 883.1-884.9: Qtz. diorite. P'tic. with vol. incl. Small dikelets and patches grey grano up to 2" at 885; 865.6; 885.5; 890; 890.4; 899.2 891.1-893: skim Qtz. diorite 5° to core w/cs pyr up to 1/4" on contacts and into walls Aplite at: 896.6-1/2"; 898.9-2"					
904.9	966.3	ANDESITE: pale green figr. gradational from above. Ltly carb't'z'd. Few scatt. "spots" as in above and fine carb seams. 906.0-907.8: Qtz diorite grey, mass. w/3/4" smokey Qtz. in center w/1/2" chloritic spots HW 40° FW 30° At 910; 910.9 and 911.3: F.P. dikelets (felsic) 913.9-914.3: Qtz. diorite p'tic. 1/2" Qtz. carb parallel to core 918.0-926.4: Qtz. dior. p'tic. carb't'z'd. Med. grey, mass 3" glassy white Qtz at HW 927.8-930.6: felsic, silic'd, carb't'z'd and pyritized shear pale grey. Possible vein shear. CA 45°-50° 930.6-944.8: Qtz. dior. alt'd grey, med. gr. 944.8-946.1: spotted andesite. Fine pyr at HW. 1/2" carb seam 946.1-946.5: Qtz. dior. alt'd as above 946.5-947.1: spotted and. fine pyr at FW 947.1-949.4: Qtz. dior. alt'd as above 949.4-983.0: fine pyr in irreg fract's 960.8-962.0: Qtz. dior alt'd as above. HW 65° FW 80° 965.2-966.3: silic'd felsic shear. Carb't'z'd, talcose near end, possible crystal tuff? Fine steaks of pyr. CA 45°-55° <u>Possible vein shear</u>		927.7	930.6	2.9	0.014
				965.2	966.3	1.1	0.052

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# DIAMOND DRILL RECORD

NAME OF PROPERTY Kenora Prospectors (Cedar Island Mine)

HOLE NO. C81-2 SHEET NO. 8 of 8

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FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO	SULPH IDES	FOOTAGE		Au			
					FROM	TO	TOTAL	OF TON	OF TON	
966.3	990.1	SPOTTED ANDESITE: few faint obscure "spots". Fine diss'd pyr. Ltly carb't'z'd. Thin carb. fract's 971.3-974.3: Qtz. dior alt'd grey, figr. 2½" white qtz in HW ½" area with cs pyr in HW area. 4" of FW with cs. pyr. 981.0-981.8: QFP: alt'd as above At 989.0: 1" creamy qtz. (aplite) 990.1-998: Felsite dike. Waxy yellow altn'n, grey HW w/fine pyr At 997.0: 2 irreg patches light alt'd w/qtz.carb on side of core  998 Hole bottom Casing pulled			971.1	971.7	0.6		0.090	

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# DIAMOND DRILL RECORD

NAME OF PROPERTY Kenora Prospectors (Cedar Island Mine)

HOLE NO CR1-3

SHEET NO 3 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO	SULPHUR %	FOOTAGE		Au				
				FROM	TO	TOTAL		%	GT TON	GT TON	
431.3	456.0	TUFF: figr. greyish with brownish streaks. Abundant po with cpy in irregular clusters plus minor sphal. Local areas with coarse cpy up to 3/4". (See attached samples sheet for description)			431.3	434.5	3.2			0.002	
										Cu 0.15 )	
										Zn 0.99 )	
456.0	478.8	DIORITE: figr. grey-green, mass. Fine diss'd pyrite 463 on: becomes darker and cser. gr.			434.5	439.0	4.5			0.002+	
										Cu 0.31 +	
										Zn 0.58+	
478.8	537.2	ANDESITE: figr. pale grey; green alt'd and carb't'z'd. Scall carb seams. Slight brownish hue at start 489.0-497.8: biotite lampr. Cs. gr. mass at start becoming finer grained HW 5° FW 45° 499.7-501.5: Qtz. DIOR grey, fine to med. gr. obscure 503.1-508.4: F.P. waxy obscure slightly latticed. Fine grained			439.0	445.1	6.1			TR	
										Cu 0.17	
										Zn 0.62	
										0.003)	
										Cu 0.60 )	
										Zn 0.63 )	
										0.001+	
537.2	605.6	ANDESITE: (dioritic) figr. dk. green gradational from above. Few thin carb. seams 542.3-544.4: qtz. diorite. Med gr. grey, mass. HW and FW 50° 550.2-554.4: Aplite, pinkish, med. gr. mass. Figr. to FW plus 2" on FW with grst. incl. 556.1-557.1: aplite as above 558.7-559.6: Qtz. DIOR grey med. gr. mass. HW irreg. FW 50° 562.3-563.6 and to 565.2: several aplite dikelets At 565.2" 1 1/2" grey Qtz. Dior at 15° 565.6-566.4: grey felsite, pink tinge. Fine pyr 568.0-568.5: white glassy qtz. with 1/2" aplite walls 571.2-572.9 and 576.1-576.6: pink aplite At 577.8 and 579: small patches OFF on side of core At 580 and 585: thin aplite dikelets 592.2-592.6: Qtz. Diorite grey, med. gr. mass. FW & FW 15° At 592.7: 1/4" grey qtz. 596.3-597.8: brownish alt'n 597.2-597.6: pink aplite			450.8	453.1	2.3			Cu 0.20 +	
										Zn 0.88+	
										0.001	
										Cu 0.13	
										Zn 0.94	

LANGRIDGE LIMITED - TORONTO - 366-1168

# DIAMOND DRILL RECORD

NAME OF PROPERTY Kenora Prospectors (Cedar Island Mine)

HOLE NO. C81-3

SHEET NO. 4 OF 7

E 10 SW JJ 2

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS		
FROM	TO		NO	SULPHIDES	FOOTAGE		Au	
					FROM	TO		TOTAL
		598.3-605.6: figr. pale green alt'd and carbonatized. Small carb seams up to 1" all angles to core axis 598.3-599.3 and 603.6-605.0: cser dioritic. Fw obscure spots 601.7-602.7: white glassy qtz. w/pink aplite walls. CA 50°			634.6	635.1	0.5	0.002
605.6	672.0	SPOTTED ANDESITE: med. to dk. green, mass. Several carb. streaks in local pale alt'd sects. Mod. fract. 607.3-609.0: Qtz-chlorite dike. Fine diss'd px w/specks cpy 618.2-620.9: Qtz. lampr. dk. grey. HW 35° FW 70° 620.9-621.7: Qtz. diorite; grey med. gr. 1" silic'd and brecc'd w/pyr on FW At 621.9: 3" QFP w/pyr frags 622.7-623.3: QFP pinkish tinge 634.6-635.1: Qtz. vein. grey white glassy. Scant chlorite At 638.3: 1½" QFP w/¼" qtz at FW (qtz. dior) At 638.5: ¼" QFP At 639.3: (1" grey qtz. dior) opposite angle to above 641.4-642.2; 648.7-2"; qtz. diorite ; opposite angles in core 649.2-649.9: Aplite, pinkish 649.9-650.9: Qtz. diorite. Grey. FW at 15° w/irreg grst. incl. 650.9-655.3: Aplite (felsic) creamy pink hue. FW 25° 655.8-656.6: 1" calcite vug plus 4" grey qtz. str. w/pyr, chlorite, cpy. 659.3-672.0: Qtz. Diorite. alt'd. med. gr. at start. Fine diss'd pyr 3" felsic at HW w/skim pyr on fract. HW 65° FW 45°			655.8	656.6	0.8	TR
672.0	683.7	ANDESITE: figr. dk. green, mass dioritic-grades into spotted and.						
683.7	689.0	SPOTTED ANDESITE: figr. dk. green, mass. dioritic. Gradational from above. At 685 and 686.: qtz. diorite dikelets						

LANGRIDGE LIMITED - TORONTO - 366-1168

# DIAMOND DRILL RECORD

NAME OF PROPERTY Kenora Prospectors (Cedar Island Mine)

HOLE NO. C81-3 SHEET NO. 5 of 7

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LANGRIDGE LIMITED - TORONTO - 366.1168

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS		
FROM	TO		NO	SULPH IDES	FOOTAGE		%	%
					FROM	TO		
689.0	695.4	ANDESITE: as above. gradational from spotted andesite. Dioritic 692.7-695.4: Qtz. diorite. HW med. gr. FW figr. Note : 605.6-695.4: same flow with areas silicate "spots" of spotted and.						
695.4	718.0	ANDESITE: figr. with brownish streaks. Abund hairline fract of carb. CA50° At 695.7; 699.5: ½" Qtz. diorite dikelets 703.0-704.2: Qtz. diorite, med. gr, grey. HW 20° FW20° in opp direct. 704.2-706.2: feldspar, grey, fine pyr 709.6 on: rock becomes dk. grey, mass diorite At 711.0: ½" grey Qtz. w/carb at 30° At 716.0: ½" grey Qtz. Cs pyr, po. spks chlor, cpy CA45°						
718.0	793.8	SPOTTED ANDESITE: figr. dk. green becoming darker to end. Scatt. hairline fract At 722.4: 3½" Qtz. dior. 719.5-720.1: thin irreg. fract pyr, po, cpy as at 655.8 At 725.7: 3" grey Qtz; carb. with calcite crystals in vug on 55° HW At 729.5: ½" grey Qtz; carb at 65° 738.1-738.9: andesite dike, obscure contacts 744.7-755.1: Qtz. diorite, pale grey, med. gr. mass w/figr. center 1" displ. on fract on HW. FW 40° 756.6-759.1: Qtz. diorite. 1" cs pink aplite w/3/8" mica on HW Small vol. incl. on FW. Aplite on FW at 45° 761.0-762.1; 782.5-783.1; 784.4-2"; 784.9-785.7; 786.9-787.3; quartz diorite dikelets At 786.2: 3/4" irreg. Qtz-carb w/biotite, chlor. and horn. 786.2-789.0: carbonatized, figr. pale green						



# DIAMOND DRILL RECORD

NAME OF PROPERTY Kenora Prospectors (Cedar Island Mine)

HOLE NO C81-1 SHEET NO 6 of 7

E 10 SW JJ 2

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS	
FROM	TO		NO	FOOTAGE		Au	
				IN SULPH	FROM	TO	TOTAL
793.8	824.2	ANDESITE: figr. pale greyish green, carbonatized At 795: small fissure with carb, mudded w/pyr 805.5-806.5. FAULT. Grey white qtz-carb seams and blebs 806.5-817.9: felsic shear w/areas grey-white silicification CA20°-40°. Local areas cs. pyr. Fine diss'd blueish-black min. (Magn?) 806.5-810.6: silic'd felsic shear. 1" white qtz. at HW 810.6-815.8: tight dker chlorite 815.8-817.9: pale silic'd felsic shear. Carbonatized. CA 25° 817.9-820.7: qtz. Diorite. Alt'd figr. grey. HW and FW 15° 820.7-824.2: chlorite. Ltly sheared. Carbonatized. CA 25°	805.5	810.5	5.0	0.007	
			-	816.1	5.6	0.001	
			-	817.9	1.8	TR	
824.2	858.4	ANDESITE: figr. greyish green carbonatized. Few carb fract. 827.1-827.6: qtz. diorite, alt'd. Cut by 1" glassy qtz. at 30° in opp direct. to dike. HW and FW 40° 830.5-833.6: andesite dike. figr. dk. green, sltly chloritic. Mass. 833.6-835.4; 838.1-838.9; 839.0-839.9: qtz. dior dikelets. Spks sulph. 840.0-858.4: Aplitic felsite. med. gr. pinkish. HW grades to waxy yellowish to 847. At 847 - 1/16" chlorite seam along core for 12" Spks pyr.	866.8	867.6	0.8	0.002	
858.4	866.8	ANDESITE: figr. dk. green, carbonatized					
866.8	930.8	ANDESITE: figr. med. green, carbonatized, lightly fract'd w/few thin seams grey qtz-carb w/spks pyr, po, cpy. Local cser areas Local tiny patches diss'd pyr 866.8-867.6: alt'd grey white irreg qtz and carb. Scant chlorite spks pyr. Local areas brown chlorite 903.0-905.1; 918.1-920.6: qtz. diorite 918.1-919.1: alt'd area. 1" str. whitish grey qtz. Patches green chlor. and cs po, pyr. Spks cpy. Cpy replacing po and pyr 923.3-930.8: Qtz. diorite pale grey					

LANGRIDGE LIMITED - TORONTO - 366.1168

# DIAMOND DRILL RECORD

NAME OF PROPERTY Kenora Prospectors (Cedar Island Mine)

HOLE NO. C81-3

SHEET NO. 7 of 7

2  
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91  
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FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS	
FROM	TO		NO.	DEPTH FEET	FOOTAGE TO	TOTAL	AU.	...
930.8	972.9	ANDESITE: figr. pale green, carbonatized. Scant diss'd pyr. 933.3-934.2: 937.2"; 939.1": qtz. diorite dikelets 942.5-943.2: qtz. dior. w/20% qtz. strcs. 950.2-950.65: bastard qtz-feld. dike w/brownish yellow fractcs 2 x 1" blebs moly or stibnite	950.2		950.65	0.45	NIL	
			979.3		981.0	1.7	0.041	
972.9	1022.3	ANDESITE: figr. red. to pale green. Highly altered, sheared, carbonatized and chloritic. Abund. white carb. in thin fractcs, streaks and patches. 978.0-992.6: strong shear includes felsic, chlorite shear with abundant blue-grey qtz. in local felsic areas. 978.0-979.3: 10% grey-white carb plus qtz. plus streaks cs and fine pyr (not sampled pending assay results of sampled sects) 979.3-981.0: chloritic silic'd shear. 5% grey qtz.carb. Fine pyr 981.0-983.1: chloritic shear. 3% Qtz-carb. Scant pyr 984.1-987.5: felsic, chloritic shear. 60% blue gry qtz. carb and fine pyr. This is best section of shear and is a <u>vein shear</u> similar to U.G. descrip. 987.5-992.3: chloritic shear 1% qtz-carb. Scant pyr Note: 983.2-984.1: alt'd QFP. Fine pyr 996.9-998.2: Aplite, pinkish grey 997.1-998.2: Bastard chloritic lampr. 1009.6-1022.3: Felsite dike. Yellowish, waxy cast. Fine pyr. in HW	983.1		987.8	4.7	0.046	
					992.6	4.8	0.006	
1022.3	1048.0	SPOTTED ANDESITE: figr. dk. green grading to pale green near end. Alt'd, well fract'd w/abund. hairline carb seams. Carbonatized in local patches  1048.0 Hole Bottom  Casing Pulled						

LANGRIDGE LIMITED - TORONTO - 266-1168

E 10 SW JJ 2

# DIAMOND DRILL RECORD

NAME OF PROPERTY Kenora Prospectors (Mikado Mine)  
 HOLE NO. M81-1 LENGTH 308'  
 LOCATION Surface NE of No. 2 shaft (in swamp)  
 LATITUDE 8120.0N DEPARTURE 8564.0E  
 ELEVATION Shaft Collar AZIMUTH 238° DIP 72°  
 STARTED July 11, '81 FINISHED July 13/81 (12.50 a.m.)

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	72°				
250	69°				
300	68°				

HOLE NO. M81-1 SHEET NO. 1 of 3

REMARKS No vein as such. See 301  
several tiny streaks V.G.  
Also see 282.75 for sp.  
V.G.

LOGGED BY C.F. Desson

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0	43	CASING									
43	241.8	DIORITE: very fine gr. dk. blackish green, mass. scant fine pyr., po cpy. Magnetic. Talcy slips. Ltly alt'd and carbonatized near end. 58.9-60.5: Quartz Diorite. dk. grey. Scant epid. in fract. 61.1-69.4: Quartz Diorite. grey, med. gr. mass. At 61.7-2"; 64.4-64.9: aplite, cs. gr. pink 64.9-67.5' slimed talc seam along core 81.0 on; hematite and skim pyr. on fract. 85.9-87.0: qtz. diorite, med. cs. gr. skim pyr. on fract. At 89.9: 1" grey banded qtz. w/waxy green altn. ground and lost ends At 100.4: 3" aplite cs. pink. At 106.5: small seam white carb. on side of core. cs pyr. spks. sphal. 119 on: rock becomes cser. gr. greener. A 120.4: 1/2" grey alt'n. spks. moly in 1/16" carb. on HW. 124.0-130.0 F.P. dk. grey. Fine gr. at HW and FW. Faintly banded center w/yellowish green felsic hue. CA 45°. 140.7-143.0; 145.3-157.7; 158.9-160.4; 165.1-166.9; 182.4-183.1; 184.3-188.8: qtz. diorite dikes. Walls 25° to 70°. At 166.5: small bleb qtz. cs. po, cpy. 194.9-199.0: Felsite. Waxy yellowish green. 3" fgr. FP on contacts 205.0-241.8: thin graphite skim on fract. At 207.3: thin seam grey carb. and graphite. At 208.3: 3" qtz. dior. 211.4 on: rock becomes darker as at start. Still magnetic. At 232.6-3"; 233.4-5"; 239.0-241.0; qtz. diorite dikes. 232.8-233.4; 236.7-239.0: Biotite lampr. 241.0-241.9: aplite. 2" qtz. dior. at FW.									

S. 100' MEASURE

## DIAMOND DRILL RECORD

NAME OF PROPERTY Kenora Prospectors (Mikado Mine)

HOLE NO M81-1

SHEET NO 2 of 3

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS	
FROM	TO		NO.	SULPHUR IDES	FOOTAGE FROM TO TOTAL	%	OF TON OF TON
241.8	275.2	ANDESITE: Schistose micaceous, f. gr. dk. greenish. Shistosity @ 40° to CA 252.2 area: 8" fine gr. dk. mass. tiny frags w/po. cpy. At 243.4-1"; 248.4-6"; 270.1-4"; 272.2"; qtz. diorite dikes 272.6-273.1; 273.2-4; aplite, cs. pink			251.0 253.0 2.4 273.1 275.5 2.4		0.004 Nil
275.2	301.2	ANDESITE: Fgr. grey-green, carbonatized 275.6-281.3: qtz. diorite. Alt'd., grey w/reddish alt'd. grains (hom?) 282.0-282.5: qtz. diorite as above N.B. At 282.25: V.G. 1/16" x 1/4" streak in thin carb. fract. 282.0-283.4: Area of tiny carb. frags w/pyr. At 283.4: 1 1/4" alt'd. heavily pyritized seam w/5% white carb. at IW of Q.D. dike at 25° to core. 283.4-286.0: Alt'd. qtz. diorite. Scant pyr. 1" aplite at 285. 286.0-289.4: qtz. diorite w/pinkish hue. 289.4-293.5: alt'd qtz. dior. greenish w/waxy green altn. of feld. thin hairline carb. frags. CA at FW 5°. At 291.4: 6" deeper pink QD. At 292.2: tiny frags. w/pyr. At 297.0: 1/4" irreg. carb. fract. w/pyr. At 300.5: 1/8" grey seam w/pyr.			- 280.3 4.8 - 280.9 0.6 - 281.5 0.6 - 281.7 1.2 - 283.9 1.2 - 288.9 5.0 - 292.8 3.9 - 295.5 2.7 - 297.5 2.0 - 299.5 2.0		0.035 0.003 0.002 0.056 0.190 0.010 TR TR 0.008 0.003
301.2	308.0	ALTERED MIKADOITE: Pale siliceous felsic. Waxy green hue with specks brown chlorite? Thin stks. whiteish qtz. scant carb. Very scant fine sulph. 301.2-302.5: Fgr. pale greenish alt'd. w/abund. brown chlorite? Specks. 302.5-308.0: Finer grained more felsic than above. Less brown chlorite. At 301.5: 3 thin seams greyish-white qtz. 1/16"-3/16" at 35°-45°. 302.9-303.5: grey alt'd silic'd zone. 1/4", 1/4", 1/4" grey and grey white qtz. Probable No. 2 Vein (extension). NB. V.G. At 302.9: 1/4" broken piece grey-white banded qtz. (both ends lost - ground) Greenish alt'n and spks. pyr. <u>Several tiny steaks fine Visible Gold</u> in qtz. and in the greenish alt'n. 304.2-304.65: 1/4" whitish qtz. at 20°. At 305.1: 3/16: white qtz. at 40°.			- 301.5 2.0 - 302.9 1.4 - 303.9 1.0 - 306.0 2.1 - 308.0 2.0		0.015 0.004 0.920 0.005 0.001

LANGRIDGE LIMITED - TORONTO - 366-1168

JJ  
E 10 3W





# DIAMOND DRILL RECORD

NAME OF PROPERTY Kenora Prospector

HOLE NO M81-2

SHEET NO. 2 of 3

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO.	FOOTAGE		Au			
			FTS	FROM	TO	TOTAL	OF 100	OF 1000	
122.4	272.7	GABBRO: probable flow. fine to med. gr. dk. greenish-black. Fine diss'd sulph and magnetite. Thin graphitic skim on slip fract's. 159.1-163.6; 174.4-185.0; 217.5-226.5; 264.3-267.8; all quartz diorite dikes. 190-9-194.4: Felsite figr. pale grey mass w/1/4" chlorite seams 1W 50° FW 70°. At 228: few thin carb seams in talcy slips. At 255.0: 1" brecc'd white carb. 255.0-264.3; 268.8-272-7; Biotite Lamprophyre figr. med.-greyish green 268.2-268.9: Alt'd carbonatized zone. Greenish grey ptic. w/diss'd pyr. in chilled walls. At 272.7: 1" cs aplite.							
272.7	357.4	ANDESITE: figr. med. green, carbonatized and slightly schistose Alt'd and fract'd with carb seams at start and end. V.G. 274.4-274.9: Alt'n zone greenish chlorite in carbonatized area. CA 30° Grey and white qtz-carb. Several tiny clusters V.G. At 281.1: 1/4" greyish qtz-carb. w/pyr. at 15° to core axis. At 287.5: 3/8" whitish grey qtz-carb. seam at 15° for 6". At 289.0-1" aplite. At 290.2-2" grey sil. bands w/chlor. Fine stks. pyr. and po. At 294.8: 1/4" grey qtz-dior. at 35°. 320.3-321.5: Alt'd carbonatized w/grey-white qtz.-carb. stks. and blebs. Minor brown and green chlorite. Coarse pyr. spks. cpy. dissem'd and in short fract's. At 326.8: 1/4" qtz. and pyr. streaks. Thin seam brown and green chlorite. Minor diss'd. pyr. in qtz and chlorite. 329.4-357.4: Qtz. diorite pale grey FW 40°.		272.7	247.0	1.3	0.001		
				-	274.9	0.9	0.230		
				-	276.9	2.0	0.002		
				-	278.9	2.0	0.010		
				-	280.9	2.0	TR		
				-	282.9	2.0	0.002		
				-	284.6	1.7	0.003		
				290.2	291.0	0.8	0.003		
				296.2	298.0	1.8	NIL		
				318.0	320.0	2.0	NIL		
				-	322.0	2.0	0.010		
				-	324.0	2.0	0.002		
				-	326.0	2.0	NIL		
				-	327.3	1.3	0.004		
357.4	408.0	ANDESITE: figr. med. green, slightly foliated at 25°. Cs chloritic at start (same as M81-1). At 370.4-2" 383.2-408: Qtz. diorite. Pale grey pinkish feld in latter 390.2-391.6: Aplitic figr. felsic w/cs pink feld. At 395.4-1" same. 399.4-399.8: 70% grey-white qtz. w/streaks and diss'd pyr. 408.0: Hole bottom Casing pulled		399.3	400.0	0.7	0.006		

LANGRIDGE LIMITED - TORONTO - 366-1188

E 10 S W

# DIAMOND DRILL RECORD

NAME OF PROPERTY Kenora Prospectors (Mikado Mine)  
 HOLE NO. M31-3 LENGTH 458'  
 LOCATION Kenora, Ontario. Hole SE of No. 2 Shaft  
 LATITUDE 5022.0N DEPARTURE 8786.0E  
 ELEVATION Shaft collar -13.00' AZIMUTH 238° DIP -55°  
 STARTED July 17, 1981 FINISHED July 20, 1981

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	55		400	45	
100	48				
200	49				
300	48				

HOLE NO. M31-3 SHEET NO. \_\_\_\_\_  
 REMARKS No vein, (see journal intersection (pass. v. break) is from 363.0 - 365.4  
 LOGGED BY C. F. Dession

FOOTAGE		DESCRIPTION	SAMPLE			ANALYSIS	
FROM	TO		NO.	FOOTAGE		Au	
				FROM	TO	oz/TON	oz/TON
0	30.6	CASING					
30.6	106.9	GRANODIORITE: grey with areas pink feld. Local figr. sects. w/ scattered thin stks. pale grey qtz w/pyr. Scant diss'd pyrite incr'n in areas of qtz. stks. and in fine gr. areas. 30.6-31.6: Aplite, pink, grey banded at FW 30°. 31.6-41.0: Pinkish feld. 41.0-55.6: f.gr. yellowish w/fine pyr. 41.0-43.0: 10% qtz. stks. 1/8" to 2" at FW in area of yellowish cast alt'n. 46.0-47.5: sltly pink, sil'd'd and alt'd. Fine pyr. 49.1-50.8: 60% grey qtz. str. w/fine pyr. Includes 0.9' qtz. at 55°HW. 55.6-65.5: granitic pink feld. 65.5-67.5: lter. grey. Fine pyr. 67.5-68.5: pinkish cast. 68.5-77.5: grey, figr. At 73: 3/8" grey qtz. w/hvy. pyr. 77.5-106.9: med. to cs. gr. sltly. pink, greyer at end w/local fine gr. areas w/fine pyr. At 76.2: 1" str. spha. w/pyr. on walls. At 80.4: pyr. in cs. seam at 40°. 90.4-90.9: figr. w/diss'd. pyr. At 95; 96.7; 99.1: thin fract. w/diss'd pyr. 100.6-101.6: figr. with fine pyr. 103.0-106.9: figr. with fine pyr.					
				40.8	43.5	2.7	0.004
				46.5	48.9	2.4	0.002
				-	51.0	2.1	0.012
				68.9	70.5	1.6	0.006
				70.5	73.0	2.5	0.100
				73.0	74.7	1.7	0.005
				74.7	76.9	2.2	0.110
				76.9	80.0	3.1	TR
				80.0	80.6	0.6	0.053
				80.6	83.7	3.1	TR
106.9	114.3	DIORITE: figr. dk. green, mass. Few epidote seams at HW area. At 109.4: 2" grey silc'n. w/chlor. and cs. pyr. in walls.		107.4	108.0	0.6	0.006
				111.6	113.7	2.1	0.001
114.3	154.9	GRANODIORITE: pinkish-grey, med. gr. mass. equigranular. At 117.5; 121; 133: aplite, deep pink. Up to 5" at 35°. 140.2-142.0: Xenolite figr. dk. grey diorite.					

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 2 10 SW



2  
J J  
E 10 SW

# DIAMOND DRILL RECORD

NAME OF PROPERTY: Kenora Prospectors (Mukado Mine)

HOLE NO.: M81-3

SHEET NO.: 2 of 3

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS	
FROM	TO		FOOTAGE			Au	
			FROM	TO	TOTAL	OF TON	PER TON
154.9	198.8	ANDESITE: figr. dk. grey, hard, mass. Lt. grey alt'd at start. Abund fracts pale talcy. 165.4-166.2: Qtz. Feld. Porphyry. dark grey. Obscure grains 173.0-181.6: Feld. Porphyry. felsic. figr. med. grey. HW 50° FW 70° 181.6-182.1: chilled vol. Thin seam pyr. po. 182.1-183.9; 187.1-192.4; 193.2-198.8: Qtz Diorite At 196: patch biotite lampr. on side of core	185.6	187.3	1.7		0.002
198.8	306.1	ANDESITE: figr. dk. grey, mass. Alt'd pale green near dikes At 205.2; 205.6; 207.3; 207.7: Qtz Diorite dikelets 1" to 3". 207.9-209.9: Qtz Diorite. grey with yellowish cast to feld. Few small vol. incls. 209.9-222.0: rock figr. dk. grey mass. w/alt'd figr. lt green areas in dike swarm. Dikes have hem. in wall fracts 212.2-212.6: Aplitic. figr. pinkish grey w/chlorite in walls At 214.2; 215; 216.3: Qtz Diorite from 1/4" to 2". 222.0-228.6; 243.3-255.6; 275.2-306.1: Qtz DIORITE dk and pale alt'd. 254.0-255.0: 1/4" grey qtz-carb at 5° to core axis w/dk. waxy green seam and bright pyr? plus fine streaks pyr. At 255.6; 256.6; 251: 1/4" strrs qtz;carb w/chl and pyr CA45° At 270.5: this seam as above At 275.2: 1/4" white qtz-carb at 40°. Minor pyr.	247.5 253.7	250.6 254.2	3.1 0.5		TR 0.005
306.1	458.0	ANDESITE: figr. med. green w/local cser. areas and also pale figr. areas At 313.7-315.4; 316.0-317.5; 325.3-326.1; 332-1/4" at 10°; 332.8-333.5; 333.6-1"; 335.8-341.2: Qtz Diorite dikes 332.7-367.0: abund thin fracts w/pale greyish white silic'n. Scant carb. at 15° to 80° plus few 1/4" qtz-dior dikelets 344.3-346.6: felsitic grey, alt'd qtz diorite	360.3 - - - 381.6 411.4	363.0 364.0 365.7 367.3 383.1 413.4	2.7 1.0 1.7 1.7 1.5 2.0		0.002 0.012 0.010 0.009 TR NIL

KENORA PROSPECTORS (MUKADO MINE) LIMITED - TORONTO - 1968

# DIAMOND DRILL RECORD

NAME OF PROPERTY Kenora Prospectors (Mikado Mine)

HOLE NO. M 81-3

SHEET NO. 3 of 3

2  
JJ  
E 10 SW

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS		
FROM	TO		NO	S. CHIPS IDES	FOOTAGE		%	G/T
					FROM	TO		
		At 353.6-15"; 354.0-2"; pink aplite						
		363.0-363.7: poss. fault figr. dk. alt'd w/thin siliceous seams w/pyr. 1" grey qtz-carb at HW and Fw. Cs pyr in fract's in the rock.						
		363.7-365.4: Alt'n zone - possible vein break, grey siliceous alt'n w/3" grey qtz-carb in HW. Local small patches fine pyr, po, cpy. Note : 30% of the core is vol. as a remnant on one side of the core.						
		367 on: figr. dker green, hard, mass. Neg fract's.						
		381.5-382.3: 1/4" grey Q-C, w/pyr, chlor. CA 20 <sup>o</sup>						
		408.0-410.0" Qtz Diorite, pale grey, f-med. gr.						
		At 413.3: 1" grey qtz. bleb w/chlor. at FW of 6" altn.						
		431.0-433.3: tight weak shear. Pale streaky siliceous altn.						
		438.9-441.0: as above. CA variable						
		448.4-448.9" " " All with spks po, cpy.						
		458 Hole bottom						
		Casing pulled						

L. ANCHUTZ LIMITED - TORONTO - 31-3-1168

E 10 SW JJ 2

# DIAMOND DRILL RECORD

NAME OF PROPERTY Kenora Prospectors (Nikado Mine - No. 2 Vein)  
 HOLE NO. M91-4 LENGTH 458.0'  
 LOCATION SE of No. 2 Shaft in swamp. Shoal Lake, Kenora, Ont.  
 LATITUDE 79° 07' N DEPARTURE 8810.0E  
 ELEVATION Shaft Collar - 13.0' AZIMUTH 238° DIP 60°  
 STARTED July 20/81 FINISHED July 23/81

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
0	60	238	408	55	
108	57		458	55	
208	57				
308	55				

HOLE NO. M91-4 SHEET NO. 1 of 2

REMARKS Proximal vein break at 414.9

LOGGED BY C. F. Dession

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO.	SU. PH. IDES	FOOTAGE		%	%	OZ/TON	OZ/TON
					FROM	TO				
0	26.4	CASING								
26.4	83.8	GRANODIORITE: alt'd. Pale yellowish green and grey areas. Few narrow qtz. veins w/fine cpy, pyr, sph. Local grey areas, figr. w/short fract's plus cs. diss'd cpy, pyr and one 3/4" str. of sph. 39.1-40.9: figr. grey area, alt'd, silic'd. 3% cpy 3% pyr Spks Zns 40.9-41.5: 90% grey & white banded qtz. Fine spks. V.G. 51.9-53.3: 3 thin qtz. str. (irreg.) Fine pyr. 59.2-60.0: 6" grey qtz. cs cpy str. near H.W. cs sph, cpy in F.W. Mudded F.W. 60.0-61.6: alt'd ptic. Fine pyr 62.2-66.0: blebg pink aplite in yellow-grey matrix. 8" grey-white qtz. at 30°. Fine cpy. 63.9-65.0: 80° grey-white qtz. Fine cpy, Pyr. Zns 78.1-81.2: diss'd pyr. Thin seams qtz, Q.C. 3/4" seam sph, cpy at 35° in F.W.								
	V.G.									
83.8	157.8	GRANODIORITE: pink, med-cs. gr. equigranular. Grad. from above. Local grey-white qtz. str. Few local areas fine, grey. Dk. grey at FW area. At 108: 4" qtz at 30° At 109.5: 5" whitish-grey glassy qtz.								
157.8	317.4	ANDESITE: figr. med green w/local cser areas. 157.8-159.1: fine fract w/po parallel to core for 12". Cut by cross fract of po at 35°. Fine QC in the fract 160.7-173.0: Felsite. dk. grey w/fine dk. fract. Sltly ptic at FW Atl'd chloritic contacts. HW 35° FW 70° 174.5-184.0; 198.0-191.0; 196.5-206.60; 229.0-237.2: fine gr. dark grey areas 192.7-193.1: felsite dk. grey, ptic at FW At 193.9: 4" feld porph.								

M91-4 - 10 SW - 1981

# DIAMOND DRILL RECORD

NAME OF PROPERTY Kenora Prospectors (Ontario) Ltd. No. 2 West

HOLE NO. M81-4

SHEET NO. 2 of 3

E 10 S W J J 2

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS		
FROM	TO		ID	SULPHUR DATA	FOOTAGE		Au	
					FROM	TO	TOTAL	OF TON
		207.0-208.0: Few short stks. greyish Q.C. w/chlor., pyr.						
		208.7-212.7: Feld. Porph. dk grey matrix						
		212.7-213.7: Aplite, cs. gr. pink. 1/2" Qtz. at FW						
		225.5-225.9; 240.4-242.8; 244.0-244.9: Feld porphyry						
		245.3-256.7: Qtz. Diorite. figr. pinkish						
		At 256.7: grades into dker grey F.P. w/dark matrix						
		256.7-271.9: Feld. porphyry. med to dk. grey matrix. Few thin fracts w/pyr						
		274.1-276.9: Qtz. Biotite Lampr. figr. dk. grey. mass.						
		288.0-281.6; 284.7-290.0: Qtz. diorite alt'd. Few seams pink aplite. Few str. glassy Qtz. in latter						
		291.9-292.9: Qtz Dior. dk. grey w/vol xenolith. at 15° to core axis 9" patch of glassy Qtz. on side of core						
		292.9-295.3: alt'n zone. Short str. greenish-white Qtz. Minor carb.						
		297.7-301.0: aplite. fine gr. pinkish						
		301.0-317.4: Qtz. Feld. Porph. bordering on Qtz. diorite. Highly alt'd						
317.4	338.1	ANDESITE: pale green, med. gr. Few QC seams to 319.2						
		322.3-323.7: Qtz. Dior. grey w/paler grey center						
		328.5-330.1: Qtz. Dior. alt'd greenish hue. 2 fine pyr stks						
		333.0-338.1: Qtz. Dior. figr. highly alt'd, yellowish cast						
		At 334.9: thin stk. pyr w/QC						
338.1	428.9	ANDESITE: figr. grey-green, mass. Few small areas w/fine pyr.						
		339.2-342.8: Qtz. Dior as at 333.0	372.6	373.1	0.5		NIL	
		At 342.0: 6" aplite, cs. gr. pink	378.3	380.1	1.8		0.001	
		At 342.8: fine diss'd pyr. near dike F.W.	382.9	384.8	1.9		0.013	
		At 359.6: 1/2" stk. impure grey Qtz.	414.8	416.7	1.9		0.003	
		At 371.8: 3" Qtz. dior. figr.	-	418.7	2.0		NIL	
		372.6-373.1: 1/2" grey Qtz. at 35° w/seam QC. Thin stks. QC. Fine diss'd pyr and chlor	-	421.0	2.3		0.002	
		At 373.5: 3" cs aplite	428.0	428.9	0.9		0.006	
		At 375.0: 5" F.P. w/1/4" Qtz. Diss'd pyr. in FW						
		378.3-380.1: few seams and stks. grey-white QC. Local fine pyr.						
		At 382.0: 0.0' F.P. dk. grey, alt'd						

LANGRIDGE LIMITED - TORONTO - 366-1168

# DIAMOND DRILL RECORD

NAME OF PROPERTY Kenora Prospectors (Mikado Mine) Ltd.

HOLE NO. M81-4

SHEET NO. 3 of 3

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS		
FROM	TO		NO	SILICA % OF S	FOOTAGE		% Fe	% Cu
				FROM	TO	TOTAL		
		328.9-384.8: 60% grey-white qtz, O.C. w/stks fine pyr, sphal and abund. chlorite						
		384.8-414.8: Feld Porph. figr. pale grey, alt'd w/med gr. dk. grey, mass. center. At 385.9: 1/4" stk. cpy, spks. sphal, pyr.						
		414.8-416.7: Vein Break. 5" grey watery qtz. at HW. Emerald green alt'n in small patches. 4" grey white QC patch on side of core w/chl. and pyr. 1/2" seam grey white QC for 8" w/chl., pyr. 2" QC at FW						
		At 418.0: 3/4" Qtz. Diorite for 10" at 15°						
		416.7-418.7: few fine QC fract's plus above dikelet						
		416.7-421.0: rock is grey-green but has fine, brownish mottled appearance as in bottom of hole M81-1 (prob. ore host rock)						
		421.0-429.6: Feld. Porph. figr. dk. grey, alt'd						
		428.0-428.9: fine pyr. 4" streaky grey qtz-carb. 1/2" white carb in FW						
428.9	431.6	ANDESITE: figr. dk. grey, micaceous						
		430.3-431.6: Aplite. cs gr. pink and grey						
431.6	458.0	ANDESITE: figr. dk. grey, micaceous. Few thin whitish QC fract's.						
		439.5-441.8: Feld Porphyry. figr. alt'd. (Poss. HW of qtz. diorite dike.).						
		458.0 Hole Bottom Casing pulled						

LANGRIDGE LIMITED - TORONTO - 366-1168

2  
J  
W

E 10 SW JJ 2

# DIAMOND DRILL RECORD

NAME OF PROPERTY Kenora Prospectors (Mikado Mine)  
 HOLE NO. M 81-5 LENGTH 303'  
 LOCATION North-east of No. 2 Shaft  
 LATITUDE 8201N DEPARTURE 8509E  
 ELEVATION Shaft Collor-12.00 AZIMUTH Exid 238° DIP -55°  
 STARTED \_\_\_\_\_ FINISHED \_\_\_\_\_

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
100'	53°				
200'	51°				
300'	50°				

HOLE NO. M 81-5 SHEET NO. 1

REMARKS No Vein-Vein Zone faulted!  
60' + E sinde N. Drilled to  
check northward extension of values  
in M 81-1

LOGGED BY C. E. Dession

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0	42.0	Casing									
42.0	150.0	ANDESITE, fi. gr. dr. green, massive. Scattered hairline fract's. Q.C. At 58.8: 3/16" aplite; 1/8" grey Q.C. At 73.2: 4" greenish alt'n w/Q.C. at 35°, spks, cpy + pyr. At 80.5 - 1/2", at 87.2-3", at 89.0-1" - all greenish alt'n At 77.3 an 79.0: 2 "grano dikelets 79.3 - 89.0: scatt white flecks feld. 89.9 - 105.1 granodiorite, med. - CS. pinkish 92.6 - 93.9: alt'd quartz-diorite; pale grey - green biotite rich fine diss'd pyr. 105.1 - 127.3: rock becomes paler grey - green (felds pathic at start) 108.5 an: becomes well fract'd w/this seams Q.C. Abund. local paler bleached areas and few thin seams gtz up to 1/4". At 110.9: 1" green breccia w/grey qtz. cement. Scant fine pyr, C.A. 25° plus 1/4" aplite at 30° faulted (3/8" offset) 111.7 - 114.2: Feld pathic At 117.0 - 1 1/2" fine aplite At 117.6 - 1/2" aplite 115.6 - 119.6'; this hairline fract's pyr at start grading to thin irreg. fract's Q.C. all with pyrite. At 119.6: 1 " grey Q.C. w/pyr, chlor, at 40° 121.0 - 123.4: Quartz Diorite, cs, gr, mass. 124.0 - 126.0: feldspathic At 127.3 " Quartz Diorite, Irreg. seams po, cpy at 60° near FW of 60°									
					73.0	73.6	0.6			0.007	
					115.4	120.6	5.2			0.037	

LANGRANGES - TORONTO - 366-1168

E 10 SW JJ 2

# DIAMOND DRILL RECORD

NAME OF PROPERTY Kenora Prospectos (Mixed Mine)

HOLE NO. M. 81-5 SHEET NO. 2

FOOTAGE		DESCRIPTION	SAMPLE			ANALYSES				
FROM	TO		NO	SIZES	FOOTAGE			%	GT 100	GT 1000
					FROM	TO	TOTAL			
		127.3 - 133.1: rock becomes very fi. gr. medium green mass. Lt'ly alt'd at start								
150.0	194.0	133.1 - 150.0: Quartz Diorite; fi. to med. green mass. Pale grey CA HW 40°, FW 70° irreg. DIORITIC FLOW: figr. mass. Dx mafic crystals in grey - green, matrix 166.9 - 176.1: Quartz Diorite as above. Local pinkish areas. At 167 and 172.1: 4" cs. aplite dikelets At 185.3: 1" grey qtz. dior 187.3 - 190.0 same								
194.0	233.2	190.3 - 191.4: qtz. dior. w/vol. incls plus local aplite patches ANDESITE: gradational from above, Dk grey - green slightly micaceous. At 198.5 - 6" and 199.4 - 1/4" aplite dikelets 200.4 - 213.9: Feldspar Porphyry, fine gr, med. grey, mass. C.A 65° 221.0 - 227.0: Quartz Diorite, Porphyritic bordering on feld porph. CA HW 30° FW 40°								
233.2	247.6	ANDESITE: gradational from above, Feldspathic, schistose. (fine feld. grains oriented at 45°) dk. grey - green. 228.7 - 230.4: Quartz Diorite as above. CAHW 50° FW 20° 240.3 - 240.7: ditto DACITE: Fi, gr, pale grey, alt'd and silic'd. Lightly brecc'd to 262.3: Few thin qtz seams to 1/4" spks pyr, po, cpy, zns 5" grey qtz. 15% pyr			246.6	247.6	1.0		0.001	
		262.0 - 262.2: quartz dior. dikelet. Very fine gr. alt'd w/fine pyr. 264.2 - 264.7: ditto			-	252.5	4.9		0.016	
		265.3 - 266.1: qtz. diorite. fi. gr. CAHW 50° FW 0-60° irreg. w/pyr			-	255.5	2.8		0.005	
266.1	281.6	272.2 - 274.5: granodiorite. cs. gr. pinkish. CAHW 6 FW 20° 280.5 - 281.3: granodiorite as above w/ cs. aplite on walls CA contacts 70°			-	255.7	0.4		0.170	
		262.3: Few thin qtz seams to 1/4" spks pyr, po, cpy, zns 5" grey qtz. 15% pyr			-	259.9	4.2		0.100	
		262.0 - 262.2: quartz dior. dikelet. Very fine gr. alt'd w/fine pyr. 264.2 - 264.7: ditto			-	262.3	2.4		0.037	
266.1	281.6	ANDESITE: as at 233.3. fi. gr dk green, schistose feldspathic			-	266.1	3.8		0.010	
		272.2 - 274.5: granodiorite. cs. gr. pinkish. CAHW 6 FW 20° 280.5 - 281.3: granodiorite as above w/ cs. aplite on walls CA contacts 70°								
281.6	303.0	ANDESITE: fi. gr. med. grey, mass. Gradational from above 294.0 - 295.8: grandodiorite, pinkish, cs. gr. CAHW 0-40° irreg. FW 50°								
		303.0 Bottom of Hole								

LANGRANGES - TORONTO - 366-1158

FORM 2

# DIAMOND DRILL RECORD

NAME OF PROPERTY Kenora Prospectos (Mikado No. 2 Vein)  
 HOLE NO. M 81-6 LENGTH 253'  
 LOCATION N. of No. 2 Shaft  
 LATITUDE 8245 N DEPARTURE 8392E  
 ELEVATION No. 2 Shaft-11.5' AZIMUTH End 238° DIP 55'  
 STARTED \_\_\_\_\_ FINISHED \_\_\_\_\_

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
100'	52°				
200'	50°30'				
300'	49°				

HOLE NO. M81-6 SHEET NO. 1

REMARKS No vein.  
Drilled to check vein zone north of M 81-

LOGGED BY C. F. Daseon

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	FOOTAGE		Au						
				FROM	TO	TOTAL	%	%	OZ/TON	OZ/TON		
0	20.6	CASING										
20.6	102.4	QUARTZ DIORITE; Ptic., grey med. gr. mass. Local pinkish alt'd sects. up to 6" plus local finer areas 26.1 - 26.8: 6" cs aplite At 37: 2" cs aplite 99.8 - 100.3: alt'd, fin sitic'd CA FW 35°										
102.4	174.5	ANDESITE: fi gr. med. green well fract'd w/abund. chilled frags QC up to 1/4" throughout. Faint typical brownish hue. 103.0 - 103.8: Quartz Diorite, pale grey alt'd 125.3 - 129.7: Quartz Diorite, pale yellowish-grey, med. gr. alt'd CA 85° At 132.3: 3" dth 142.8 - 143.6: grey silic'd alt'd, streaks green chlorite, irreg wavy appearance. Diss'd pyr. 1/2%. Minor grey-green alt'n 143.6 - 160.0: Feldspar Porphyry, med. to dr. grey Mod. Fract'd w/hairline QC as in volcanics above. CA HW 65° FW 10°		142.8	143.6	0.8				0.009		
174.5	190.4	DACITE: fi gr. pale grey, alt'd silic'd and brecc'd (asin M81-5) Fine Pyr. in this frags + diss'd at HW for few inches (Vein Host?) 186.6 - 190.5: pale, bit cser. gr. Lightly alt'd.		174.5	175.2	0.9				0.017		
190.4	242.0	ANDESITE: fi. gr. med.-dk. green, slightly micaceous schistose. Few this threads QC. 201.0 - 215.6: Granodiorite. Cs. gr. pinkish-grey. Local blebs aplite.		-	176.5	1.3				0.012		
242.0	253.0	ANDESITE: fi. gr. dk. grey mass. Gradational from above 253' Bottom of hole		-	178.8	2.3				0.008		
				-	184.7	5.9				0.003		
				-	185.9	1.2				0.020		
				-	186.45	0.55				0.012		
				-	190.40	3.95				0.002		
				172.3	174.3	1.0				0.001		

LANGRICES - TORONTO - 366-1188

FORM 1

E 10 SW J J 2



E 10 SW J J 2

# DIAMOND DRILL RECORD

NAME OF PROPERTY Kenora Prospectors (Mikado No. 2 Vein Area)  
 HOLE NO. M 81-7 LENGTH 273'  
 LOCATION East of No.2 shaft NE of M 81-3  
 LATITUDE 8085N DEPARTURE 8840E  
 ELEVATION No.2 shaft - 13' AZIMUTH End 238° DIP 55°  
 STARTED \_\_\_\_\_ FINISHED \_\_\_\_\_

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
100	52°				
200	52°				
270	50°				

HOLE NO. M 81-7 SHEET NO. 1  
 REMARKS Drilled to check values in M 81-3  
 LOGGED BY C.F. Desson

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS								
FROM	TO		NO.	SULPHIDES	FOOTAGE		Au							
					FROM	TO	TOTAL	%	%	OZ/TON	OZ/TON			
0	35.1	CASING												
35.1	113.0	GRANODIORITE: cs. gr. equigranular. pink cast due to feld. alt'n At 56: 10'cs. pink aplite 63.00n: Local grey areas of quartz diorite 63.0 - 64.9: 4" grey banded quartz at 30° in lightly pyritized qtz. diorite 83.0 - 99.0: fi gr. alt'n zone. Greenish cast with brown vein type mottling plus diss'd pyr. 83.0 - 86.0: fi gr. alt'd w/greenish cast scant diss'd pyr. At 83.3: 3/16" pyr. w/ scant cpy replacing pyr. Vuggy w/ QC. Also 2 short frags pyr. 86.0 - 89.1: alt'd fi gr. brownish mottled appearance as in bottom of hole M 81-1 (No.2 vein host rock) minor pyr in cs. clusters. At 87.1: 1" bleb QC w/cs pyr. At 89.0: 1/4" grey-whitish w/por and cpy. 89.1 -94.0: as at 86.0 scant diss'd pyr. 94.0 - 99.0: ditto < 1% diss'd pyr. 99.0 on: Quartz Diorite, Ptic. local minor areas figr. and pink alt'n in fracture areas.												
113.0	154.6	DIORITE: figr. dark grey, mass. Probable flow. Areas of chlorite and dike alt'n w/ brecc'd partially digested frags up to 2" in the following areas plus minor areas of same "in inches". 113.0 - 116.0; 122.8 - 130.5; 132.3 - 134.5. At 136.0 - 136.4; 142.6 - 143.9; 126.0 - 130.0: chlorite + pyr. 133.3 - 133.9: qtz diorite w/greenish cast 136.4 - 136.6; pina grano 136.6 -137.0: 50% pyr. 30% white qtz at 35° CA 137.0 - 140.2: grano dike, pink alt'd 147.1 - 147.7: FAULT strong tale schist												
					63.0	64.9	1.9					0.019		
					83.0	86.0	3.0					0.010		
					-	89.1	3.1					0.015		
					-	94.0	4.9					0.004		
					-	99.0	5.0					0.071		
					126.0	130.0	4.0					NIL		
					136.6	137.0	0.4					0.001		
					147.1	149.9	2.8					NIL		
					-	154.6	4.7					0.002		

LANGRIGES - TORONTO - 358-1168

## DIAMOND DRILL RECORD

NAME OF PROPERTY Kenora Prospectos (Mikado No. 2 Vein Area)HOLE NO. M-81-7 SHEET NO. 2

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		ID	FOOTAGE		%	Au		
				FROM	TO		TOTAL	OF 100	OF 100
		147.1 - 149.9: fine diss'd pyr. 148.0 - 149.9 Greenish cast vein type alt'n w/fine pyr. At 145.8: 3/8" grey qtz w/spks po, cpy. At 147.1 - 1/2" irreg. grey qtz w/ pyr. 149.9 0 154.6: 10% white qtz in short fract. and seams							
154.6	237.9	ANDESITE: gradational from above. Sltly dioritic. Dark to med. grey-green, fi. gr. mass. At 173.4" w/3/16" grey qtz at 20° w/thin walls of apple-green chlorite At 203:5" feld porphyry 209.1 - 216.2: Feldspar Porphyry. Fi. Gr. pale grey mass. CA HW and FW 50° 224.6 - 231.4: Alt'n Zone. Med. green chloritic. No Sulph. 231.4 - 235.7: Quartz Diorite, grey, cs. gr. ptic. w/2" aplite. 235.7 - 237.0: aplite, cs. gr. pink			247.0	249.6	2.6		0.062
237.9	238.5	QUARTZ DIORITE: Alt'd, ptic 237.9 - 238.2 Fine alt'd plus 1/8" qtz at HW							
238.5	240.8	FELSITE: fi gr. pale greyish-yellow. Few thinfracts grey qtz plus 3/8" grey qtz.							
240.8	247.0	QUARTZ DIORITE: ptic. med. gr. med. grey. Local fine alt'd areas up to few inches.							
247.0	249.6	ALTERATION ZONE: Faint pale green vein type alt'n silic'd, chloritic w/diss'd pyrite plus qtz stringers and blebs 247.0 - 247.5: 50% grey qtz as blebs w/po, pyr, cpy. At 248.8: 3" white qtz w/spks. chlorite At 249.3: local fract. up to 1/16 w/pyr and QC							
249.6	251.8	ANDESITE: grey, mass. fi gr.							
251.8	253.0	QUARTZ DIORITE: grey, alt'd. irreg. contacts							
253.0	254.5	ANDESITE: greenish, alt'd							
254.5	258.7	QUARTZ DIORITE: grey, cs. gr. w/local finer areas							
258.7	273.0	ANDESITE: fi gr. dk. grey, mass 260.0 - 263.0: Feldspar Porphyry. Dk. grey, fi. gr. mass  273 Bottom of hole							

LANGRIGES - TORONTO - 366-1164

# DIAMOND DRILL RECORD

NAME OF PROPERTY Kenora Prospectors (Mikado No. 2 Vein Area)  
 HOLE NO. M 81-8 LENGTH 353'  
 LOCATION East of M81-4  
 LATITUDE 8047N DEPARTURE 6925E  
 ELEVATION No. 2 Shaft - 13' AZIMUTH Grid 238° DIP 55°  
 STARTED \_\_\_\_\_ FINISHED \_\_\_\_\_

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
100	52				
200	52				
300	51				
353	52				

HOLE NO. M 81-8 SHEET NO. 1 of 3

REMARKS Drilled to check  
below values in M 81-4

LOGGED BY C. F. Desson

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	FOOTAGE		Au						
				FROM	TO	TOTAL	%	%	OZ/TON	OZ/TON		
0	33.0	CASING										
33.0	79.9	GRANODIORITE: cs. gr. equigranular, pinkish, mass. 56.5-79.9: yellowish cast w/areas diss'd pyr. plus qtz. strcs. 56.5-61.1: yellowish cast f.gr. alt'd <1% diss'd pyr. 2% irreg. frags 2/qtz. plus pyr. 61.1-61.7: 60% grey watery qtz. w/fine diss'd pyr. 61.7-66.4: yellowish and pink alt'n. <1% pyr. Few this frags. pyr. and qtz. 1/2" pink qtz. At 64-2" strong shear 66.4-71.4: as above 71.4-76.2: yellowish cast 76.2-79.9: ditto. <1% pyr.		56.5	61.1	4.6			0.042			
				-	61.7	0.6			0.081			
				-	66.4	4.7			0.003			
				-	71.4	5.0			0.001			
				-	76.2	4.8			0.002			
				-	79.9	3.7			0.003			
79.9	84.7	MIKADOITE TYPE ALT'N. Pale apple green, finely mottled. 4% white qtz.-carb. in frags up to 3/8" plus dike qtz. Sharp HW contact at 65°. Small patches brownish mottling at end		-	84.7	4.8			0.001			
84.7	97.4	DIORITE: Flow type. f.gr. dk. grey mass		-	89.5	4.8			NIL			
97.4	113.6	GRANODIORITE: cs. gr. mass. grey bordering on quartz diorite type to 103 grading to pinkish cast w/minor brick red aplite										
113.6	128.5	DIORITE: flow type. Med gr. dk. green, mass. Slightly mottled mafics										
128.5	136.1	GRANODIORITE: greyish and yellowish cast, alt'd. Fi to med. gr.										

LANGRIDGE LIMITED - TORONTO - 366-1168

JJ 2  
E 10 SW

# DIAMOND DRILL RECORD

NAME OF PROPERTY Kenora Prospectors (Mikado)

HOLE NO. M. 81-8 SHEET NO. 2 of 3

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS							
FROM	TO		NO	SULPHIDES	FOOTAGE			AU					
					FROM	TO	TOTAL	%	%	of ton	of ton		
136.1	144.0	DIORITIC FLOW: as above. Scant fine pyr. alt'd to limonite											
144.0	169.9	QUARTZ DIORITE: cs. gr. equigranular, grey, mass. Local seams qtz. up to 1/8" in fine alt'd high temp alt'd walls At 164.5; 165.3; 165.8 thin seams qtz. w/pyr, cpy in fine high temp alt'd walls			164.5	166.3	1.8				0.016		
169.9	222.8	DIORITIC FLOW: f.gr. med. grey-green, mass. 170.3-170.7: qtz. dior. dikelet 185.9-198.0: darker green chloritic 204.9-206.6: quartz diorite. Greenish alt'd. Abund. biotite 206.6-209.1: 90% dike qtz. w/clusters biotite and spks. chlorite. At 222: local grey mottled area			207.4	209.1	1.7				NIL		
222.8	224.5	FELSITE: f.gr. faint brownish grey cast. spks. chlorite			222.8	224.5	1.7				NIL		
224.5	232.7	QUARTZ DIORITE: alt'd, greenish cast. Minor pyr. <1%			228.5	232.7	4.2				0.001		
232.7	234.9	FELSITE: as above. Few fine frags w/pyr. chl. 40% white qtz. w/spks. pyr.			232.7	234.9	2.2				0.43		
234.9	266.6	DIORITIC FLOW: as at 169.9. Few thin frags. QC w/pyr. Minor local f. gr. brownish areas as at 224.5. At 245.4: 6" patch grano w/epid on side of core At 248.7: 1" bleb white calcite w/spks. pyr. chl. and 1/2" grey QC w/pyr. 256.1-257.9: quartz diorite, f.gr. siliceous alt'd CA 80° 261.3-262.3: quartz diorite, cs.gr. grey, mass. . CA HW, FW 25° At 263.0: 1/2" grey qtz. w/thin chlor. bands and spks. pyr.											

LANGRISHES - TORONTO - 366-1168

# DIAMOND DRILL RECORD

NAME OF PROPERTY Kenora Prospectors (Mikado)

HOLE NO M 81-8

SHEET NO 3 of 3

Z  
J  
J  
E 10 SW

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO	DEPTH IDS	FOOTAGE		%	OF 100	OF 100
					FROM	TO			
266.6	284.1	DIORITE: probable flow. Porphyritic. Gradational from above. Dk. grey, mass.							
284.1	317.1	ANDESITE: grad. from above. Fi.gr. dk. green, mass. Slightly ptic w/tiny rounded grains white feld. At 294.7: 1" irreg. qtz. dior. dikelet cut by 1/8" str. grey QC w/pyr. chlor. 295.2-303.9: quartz diorite: fi. to med. gr. pale grey. CA HW, FW 50° At 310.8: 2" pink aplite At 315.6: 3" grey qtz. diorite							
317.1	345.1	ANDESITE: f.gr. alt'd grey green. Local ptic. areas. 3" grey qtz. at H.W. as irreg. blebs 323.0-324.1: dk. green w/diss'd pyr, po.			323.0	324.1	1.1		0.003
	<u>V. G.</u>	324.1-324.5: white and grey qtz. Scant cs pyr. and cpy. Fine spks chlorite and arseno. . Several fine spks <u>V.G.</u> 324.5-326.35: alt;d, silic'd w/chlor. and 3/8" irreg. grey QC w/pyr. 326.35-326.85: 90% grey and white qtz. w/QC. Cs pyr. Spks po, cpy, chlor and 1/8" seam waxy green aragonite? 326.85-327.85: silic'd, alt'd. Fine diss'd po., pyr At 328.2-329.7; 330.2-330.7; 332.0-328.0: grey qtz. diorite 338.0-345.0: quartz diorite. f.gr. alt'd, pale yellowish grey w/minor cser sects At 337.9: 1/2" grey vuggy qtz. 50% cs pyr. po. Spks. cpy, Zns, arseno in FW			-	324.5	0.4		2.0
					-	326.35	1.85		0.020
					-	326.85	0.5		0.29
					-	327.85	1.0		0.004
					337.8	340.0	2.2		0.009
345.1	353.0	DIORITIC FLOW: med gr. dk. green, mass							
		353 Bottom of hole							

LANGRIGES - TORONTO - 268-1168

# DIAMOND DRILL RECORD

NAME OF PROPERTY Kenora Prospectors (Mikado No.2. Vein Area)  
 HOLE NO. M81-9 LENGTH 250'  
 LOCATION SE of M81-4 (450' E of No.2 Shaft)  
 LATITUDE 7928N DEPARTURE 8933E  
 ELEVATION No.2 shaft - 12.5' AZIMUTH 238 DIP -55  
 STARTED \_\_\_\_\_ FINISHED \_\_\_\_\_

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
100	53°				
200	51°				
250	51°				

HOLE NO. M81-9 SHEET NO. 1

REMARKS \_\_\_\_\_

LOGGED BY C. F. DESSON

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO		NO.	SILIC'N PHOSPH IDES	FOOTAGE			Au					
					FROM	TO	TOTAL	%	%	OZ/TON	OZ/TON		
0	45.1	CASING											
45.1	58.1	ANDESITE: Fi. gr. dk green. Minor patches brownish and greenish vein zone type mottling. Few thin qtz. carb. fractures in local carbonatized areas. At 49.1: 1" 90% whitish qtz. 56.2-58.1: 5% QC in irreg. fracts. At 57.7: 3/4" impure qtz w/chlor pyr	4383		56.2	58.1	1.9					0.002	
58.1	215.1	GRAND DIORITE: Med. to cs gr. pinkish w/ grey areas at start. Local areas alt'd yellowish, fi. gr. grading to quartz diorite 58.1-64.7: yellowish alt'd. Few thin seams grey qtz. w/pyr. up to 3/16". Minor aplite to 3" 58.1-58.9: 3" qtz. w/pyr. 5" mikadoite type vein alt'n w/tiny pyr fracts in HW 1/2" qtz, pyr in FW. 58.9-63.0: Yellowish alt'd. Few seams qtz up to 3/16" 64.7-68.0: Finer, dker. grey area 0.7-93.7: Alt'd and silic'd. Minor chlor. spks pyr 91.3-91.6: Med. gr. chloritic dikelet 93.7-95.2: Emerald green vein type alt'n w/faint mottling. Sharp Contacts HW 50° FW 45° 3" white and grey qtz at FW w/ chlorite, spks pyr and fine spks blue mineral. 106.3-108.5: Fi gr. silic'd. Minor chlor. spks. pyr 130.1-134.7: Yellowish fi. gr. alt'd 5% white qtz veinlets and silic'n up to 4" V.G. At 133.5: 3" white qtz w/fine spks V.G and very fine spks and tiny fracts of blue mineral 134.7-138.0: Ltly alt'd. 2-1/8" qtz. seams	4384 4385 4386 4387 4388 4389		58.1 58.9 90.7 93.7 106.3 130.1	58.9 63.0 93.7 95.2 108.5 134.7	0.9 4.1 3.0 1.5 2.2 4.6					0.007 0.003 NIL 0.002 NIL 0.150	

LANGRISHES - TORONTO - 366-1188

FORM 1

E 10 SW JJ 2

2  
JJ  
E 10 SW

# DIAMOND DRILL RECORD

NAME OF PROPERTY Kenora Prospectors (Mikado NO.2 Vein Area)  
 HOLE NO. M81-9 SHEET NO. 2

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO	SULPHIDES	FOOTAGE			%	OF TON	OF TON
					FROM	TO	TOTAL			
		138.0-142.1 as above	4391		138.0	142.1	4.1			
		142.1-145.1: 6" white qtz. Few fine spks pyr and arseno. Minor chlor very fine spks. blue mineral. 3/4" grey watery qtz 5" grey qtz. brecci. w/20% cpy-po mix. spks, sphal, arseno	4392		142.1	145.1	3.0	0.00	2.1	→
		145.1-148.0: Ltly alt'd. Few qtz seams. 1" grey qtz. w/spks pyr. and very fine blue min.	4393		145.1	148.0	2.9			
		148.0-151.3: Ltly alt'd. Few qtz seams	4394		148.0	151.3	3.3			0.003
		151.3-155.0: as above. 5% impure qtz	4395		153.3	155.0	1.7			0.006
		155.0-156.1: Med. grey alt'n 1" white qtz. at HW at 70°, 6" grey qtz w/2% sphal. and spks. pyr.	4396		155.0	156.1	1.1			0.001
		156.1-159.0: Grey alt'n 5% grey qtz w/stks. and diss'd pyr	4397		156.1	159.0	2.9			0.009
		168.0-179.6: Felsite Dike. fi. gr. pale yellowish cast. Thin fract. qtz. QC. Short stks. pyr. 3% qtz. At 170.7-3/4" grey	4398		168.0	173.0	5.0			0.006
		Qtz. Carb. w/spks. pyr. cpy. sphal. CA HW FW 50°	4399		173.0	179.6	6.6			0.002
		182.4-187.4: 4 thin seams impure qtz.	4400		182.4	187.4	5.0			TR
		At 190.4: 3/4" grey impure qtz. spks. pyr.	4280		195.6	199.2	3.6			0.003
		195.6-199.2: Yellowish alt'd. Few thin fract. w/pyr.								
		199.2-202.1: Yellowish alt'd 5% greyish silic'n Fine pyr. cpy.	4287		199.2	202.1	2.9			0.017
		208.3-209.6: Dk. Alt'd Scant qtz. seams pyr.								
215.1	250.0	ANDESITE: Fi gr. dk. grey mass. spks pyr Minor grey-white silic'n Minor graphite on slip faces								
		225.4-229.0: pale grey alt'n zone w/cs qtz-feld 226.7-228.0 brecc'd	4288		226.7	228.0	1.3			0.001
		Fine biotite in HW area CA 40°								
		244.0-250.0: dk blackish grey, sltly feldspathic. Badly broken								
		At 240.0: 1" area w/seam cyp. po. red hematite.								
		250 Hole Bottom								

LAMBROGES - TORONTO - 366-1168

# DIAMOND DRILL RECORD

NAME OF PROPERTY Kenora Prospectors (Mikado Mine No.1 Vein)  
 HOLE NO. M81-10 LENGTH 500'  
 LOCATION 480' SE of No.1 Shaft  
 LATITUDE 7750N DEPARTURE 8425E  
 ELEVATION No.1 Shaft Collar AZIMUTH 238° DIP -60°  
 STARTED 16 ft. above No.2 Shaft Collar FINISHED

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH
100	59°		500	53°	
200	58°				
300	56°				
400	55°				

HOLE NO. M81-10 SHEET NO. 1

REMARKS Drilled to section area  
at 310' elev. on No.1 vein between  
4th and 7th level above 220' of  
0.46 Au/5.0' as indicated on the  
level log, section  
 LOGGED BY: Carmen F. Desson

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO.	SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON	
					FROM	TO	TOTAL					
0	4.7	CASING										
4.7	87.9	GRANODIORITE: cs. gr. mass. to 21.7 21.7-25.0: yellowish, fi gr. alt'd spks pyr 25.0-30.1: Fi gr greyish 30.1-33.0: cs gr. as at start 33.0-37.0: Fi gr. greyish 37.0-54.0: Few oxidized porous fract. in minor shatter zone 37.0-45.6: Yellowish, Ltly alt'd 45.6-52.5: Feldspar Porphyry faint yellowish felsitic 52.5-87.9: cs, gr, as at start. Deep pink aplite dikelets 1/2" and up 65.3-71.4: Aplite. deep pink, feldspathic CA, HW 45, FW 40 79.9-83.6: Aplite; CA, HW, FW 40										
87.9	173.0	ANDESITE: Fi gr. dk, green, mass. slightly mag, at start. Become greyer at end. Slightly schistose at start. CA HW 40 91.0-92.4: Grano, Mass. HW 35, FW 10 on irreg. fract. 106.7: 1/2" banded Qtz w/chlor, spks pyr. CA 65 114.2-134.0: grades into med. gr. dioritic w/spks pyr (cser flow center) At 117.0: 1" grano 129.6-130.5: sh'd, chloritic 1/2 po, spks, cpy 137 area: local small patches diss'd pyr and on fract. w/po. At 168.0: 3/16" and 1/2" white feld. dikelets At 170.5: 3" pink silic. dikelet 170.8-173.0: core ground and lost										

LANGRIDDIES - TORONTO - 366-1168

2 JJ 10 SW



2  
J  
J  
E 10 SW

# DIAMOND DRILL RECORD

NAME OF PROPERTY Kenora Prospectors (Mikado Mine Vein)

HOLE NO M81-10

SHEET NO 2

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	SILICA %	FOOTAGE			%	GT TON	GT TON
					FROM	TO	TOTAL			
173.0	211.0	ANDESITE: very fi gr. med.-grey-green, sltly micaceous grading to deeper green. Few grey QC seams and fractcs At 173.8: 3" irreg. pink aplite At 177.2: 3" white QC At 179.5: 3" grey QC 183.6-184.0: cs pink and white aplite 185.8-186.2; 187.6-187.8: as above 187.0-191.0: slightly alt'd poss. flow struct.								
211.0	215.1	TUFF: grey, silic'd, banded, welded. Thin bands light and dk. grey CA 38°-45°.								
215.1	266.0	ANDESITE: fi. gr. dk. green, alt'd 225.6-227.3: Grano, Pink, fi. to med. gr. 227.3-227.9: Med. grey green carbtzd. 227.9-229.4: Aplite, pinkish alt'd 229.4-232.0: Brownish cast 232.0-243.7: fi gr. dk. green, sltly micaceous 243.7-246.6: Quartz Diorite, med. grey, med. grained. 246.6-265.4: Grano-Aplite mixture, pinkish alt'd. 255.3-257.6: Yellowish, fi. gr. alt'd. 265.4-266.0: Quartz Diorite as above.								
226.0	364.9	ANDESITE: Fi. gr. dk. green massive. Scant QC in hairline fractcs 273.2-274.5: Grano, Grey, med. gr. CA HW 25° FW 45° 276.0-305.0: Grades into feldspathic type with prominent white feld oriented parallel to schistosity. At 293: 1/2" grano 296.0-300.9: Grey grano-aplite mix. CA HW 50° FW 40°. 305.0-334.0: Bit finer grained Aplite dikelets: 315-1 1/2", 316-1/2", 324.4-1". 327.1-327.7: Qtz. Diorite, grey, med. gr. mass. 328.4-329.5: Aplite cs gr. pink 329.5-332.8: Qtz. Diorite, alt'd, fi. to med. gr. 332.8-334.0: Aplite, fi. gr. pink 334 area: 2 small aplite and Qtz. Diorite dikelets.								

LANGRISHES - TORONTO - 348-1184

# DIAMOND DRILL RECORD

NAME OF PROPERTY Kenora Prospectors (Mikado Mine No. 1. Vein)

HOLE NO M81-10

SHEET NO. 3

2  
J J  
E 10 S W

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		ID	FOOTAGE		Au				
				FROM	TO	%	OF 100	OF 100		
		334.0-362.2: grades into med. gr. feldspathic as 276. Few thin qtz. dior. dikelets to 1/2"								
		At 348.7: 2" pink aplite								
		362.2-364.9: cs gr. dk. green, dioritic								
		At 362.2: 1/8" stk. pyr.								
364.9	403.1	ANDESITE: Fi gr. grey green, mass. locally alt'd chloritic poss flow top of HW side.								
		At 366: 2-1/8" stks, pyr.								
		368.0-370.0: few short stks. pyr + carb.								
		370.0-377.0: Feld. Porphyry. fi. gr. med. grey 371.5-375: lost core								
		At 377: 4" badly broken								
		377.5-378.0: 1" irreg. bleb qtz. w/spks pyr, cpy. Scant arseno and chlorite. FW ground and lost	4289		377.5	378.0	0.5		0.140	
		378.4-398.3: Qtz. Diorite. Med. grey, med. gr. w/local faint pink alt'n. 1" and 2" aplite. Spks, pyr. in fract								
		395.7-398; 398.3-401.3: Aplite fi. gr. pink.								
		401-3-403.1: Qtz. Dior. alt'd. fi. gr. greyish w/pink hue.								
403.1	500.0	ANDESITE: Dk green, med. gr. massive grading to fi. gr.								
		405.9-407.2: Andesite. Fi. Gr. faint brownish hue w/hairline QC fract. CA FW 45								
		411.8-412.9: Grano. fi. gr. alt'd, pinkish grey								
		412.9-427.0: Aplite: fi. gr. w/local cs areas of alt'd grano. Pinkish hue.								
		415.0-417.5: Alt'd grano								
		424.0-427.0: Grano. Thin latticestruct. in cs. gr. matrix								
		At 427.0" 1/2" white QC								
		At 443.0: 2-1" seams pink aplite								
		456.2-457.2: 1" grey white QC 3-1/8" seams white	K4290		456.2	457.2	1.0		TR	
		QC. Faint No.2. vein type mottled alt'n at HW								
		480.9-487.0: Alt'd, carb'tz'd vein type alt'n Brownish mottled at HW								
		Abund. QC in thin seams	K4291		480.9	483.8	2.9		TR	
		480.9-483.8: Minor QC in seams	K4292		483.8	487.0	3.2		TR	
		483.8-487.0: 15% QC in seams No.2 vein type alt'n 5" of 70% grey silic'n w/20% QC and spks. cpy, pyr. CA 40								
		493.0-494.7: Ltly sh'd. No.2. vein type brownish alt'n mottled. Few thin fract w/pyr								
		500 Hole Bottom								

LANGRIGES - TORONTO - 368-1168

# DIAMOND DRILL RECORD

NAME OF PROPERTY Kenora Prospectors (Mikado No. 2 Shaft Area)  
 HOLE NO. M81-11 LENGTH 256'  
 LOCATION 100' SE of M81-9 Sect. 3+50S 3+00E  
 LATITUDE 7863N DEPARTURE 9091E  
 ELEVATION No. 2 shaft-11' AZIMUTH Grid 238° DIP 55°  
 STARTED Dec. 8/81 FINISHED Dec. 10/81

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	55				
100	54				
200	53				
250	52				

HOLE NO. M81-11 SHEET NO. 1  
 REMARKS Drilled to check for  
ext. of values cut in M81-9.  
Deeper 0.8. than expected.  
Hole in post fault valley (EV  
fault approx-see Geol. Map)  
 LOGGED BY: C.F. Desson

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS							
FROM	TO		NO.	SILIC'N PHOSPH. IDES	FOOTAGE			Au					
					FROM	TO	TOTAL	%	%	OZ/TON	OZ/TON		
0	60.3	CASING											
60.3	203.2	GRANODIORITE: Med. gr. mass. med. grey w/local areas faint pink alt'n of feld. Local areas fi gr. yellowish, alt'd sericitic. 60.3-62.2: alt'd, ltly sericitic, fi gr. yellowish cast. 2" w/50% grey qtz at start (some ground and lost) plus minor CS pyr. Fi gr. alt'd at FW. At 101.5: local minor patches f. gr. yellow alt'd, sericitic At 110.0: 2" grey, fi gr. chloritic incl. w/fi pyr. 113.9-121.6: fine gr. yellowish cast, alt'd sericitic. Few short blebs qtz. At 115.4: 1/2" grey chloritic w/fine pyr (CA 30°) At 116.0: narrow short stk, pyr, in alt'd, silic'd fract. At 119.9: 2" lt grey watery qtz. stks. fine chl., ser. and scant fine pyr. cs. blebs pyr. at FW At 125.0: 1/2" qtz @ 1/2" silc'n w/pyr and sericitic 133.7-135.4: fi gr. alt'd yellowish, sericitic, silic'd. short stks. grey silc'n w/fi pyr. 6" alt'd w/scant ser. at HW side w/thin fract. grey qtz. 139.0-140.3: white qtz. very fine scant faint blue mineral. Spks. ser. 2" on HW of grey silc'n w/minor diss'd pyr, sphal and spks cpy. 140.3-141.3: Mod alt'd. 1/2" grey qtz. at 30° 145.8-148.3: grey and yellow sericitic altn. 3/8" and 1/2" grey qtz. w/stks. pyr. Scant carb in stks. 147 acree. 1/8" grey stk w/pyr, po, cpy at HW At 154.5: 1" grey w/stks. fine pyr At 160: 4" yellow sericitic 172.3-173.6: yellow, sericitic. 1/4" white qtz at HW 175.4-176.8: 3/8", 1/2", 1" grey qtz. str. at 50° 195.0-197.0; 199.2-200.6: local biotite rich areas qtz.diorite phases											
					60.3	62.2	1.9					0.071	
					113.9	119.6	6.3					0.007	
					119.6	120.6	1.0					0.005	
					124.5	125.5	1.0					0.012	
					133.0	135.4	2.4					0.007	
					138.0	139.0	1.0					0.004	
					139.0	140.3	1.3					0.009	
					140.3	141.3	1.0					0.002	
					141.3	145.8	4.5					0.001	
					145.8	148.3	2.5					0.007	
					172.3	173.6	1.3					TR	
					175.4	176.8	1.4					0.003	

LANGRIDGES - TORONTO - 368-1168

# DIAMOND DRILL RECORD

NAME OF PROPERTY Kenora Prospectors (Mikado No.2 Shaft Area)

HOLE NO M81-11

SHEET NO 2

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO	ANALYSIS	FOOTAGE		Au				
				FROM	TO	TOTAL		%	GT TON	GT TON	
203.2	215.1	ANDESITE: fi. gr. med green hihly alt'd and carbtd. feldspathic. Faint brownish patches. 203.2-206.5: minor carb. in short stks. (wall sample) 206.5-209.2: 20% greyish white QC in stks and fract's. At 208: 6" grey vein type mottling 209.2-210.2: 1/4" QC. (wall sample) 210.2-215.1: Felsite Dike. dk. yellowish cast, fi. gr. mass. Few this fract's. QC. spks diss'd pyr. HW 70° (share) FW 15° (irreg.) 1/4" grey QC. at FW at 15° to core axis.			203.0	206.5	3.5			TR	
					206.5	209.2	2.7			NIL	
					209.2	210.2	1.0			0.001	
					210.2	215.1	4.9			0.006	
215.1	225.3	SERPENTINIZED VOLCANIC: Dk. grey green, med. gr. Thin seams pale greenish-white silicate typical to this type rock. Magnetic.									
225.3	249.5	BASALTIC LAVA: gradational from above. fi. gr. dk. grey-green, mass very fine scant diss'd sulph, magn, and chlor. Few pale greenish seams as above typical of serpentinite at all angles to core. At 242: 3/16" green, talcy fract's at 20° 243.0-245.1: highly alt'd pale greenish talcy w/cs. amfics. 247.8-249.5: 1/2" stream fine heavily diss'd magnetite at low angle to core axis.									
249.5	252.3	SERPENTINITE: as above 215.1									
252.3	256.0	APLITE: fi. gr. pink, mass (greyish at start)									
		256 Hole Bottom									

LANGRANGES - TORONTO - 366-1168



# DIAMOND DRILL RECORD

NAME OF PROPERTY Kenora Prospectors Option (Mikado No. 2 Shaft Area)  
 HOLE NO. M81-12 LENGTH 253'  
 LOCATION 100' SE of M81-11 Sect. 4+50S 3+30E  
 LATITUDE 7795N DEPARTURE 9169E  
 ELEVATION \_\_\_\_\_ AZIMUTH Grid 238° DIP -55°  
 STARTED Dec. 11/81 FINISHED Dec. 12/81

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH

HOLE NO. M81-12 SHEET NO. 1

REMARKS Drilled to check for ext. of qtz. and alt'n in M81-11 south of probable E-W (approx.) fault

LOGGED BY C.F. Desson

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0	14.5	CASING									
14.5	84.3	DIORITE: fi to med. gr. dk. green mass. Few 1/16" seams aplite and impure qtz. 25.5-26.5: aplite. cs. pink-white on side of core At 36.5: 1/2" grey qtz. in bleached area 41.5-42.0: broken core w/irreg. seam cs. aplite At 44.5: 6" oxidized w/20% rusty Q.C. At 45.4: 1/2" grey impure qtz. 82.8-83.4: silic'd alt'd. fi gr. 1", 2" impure aplitic qtz.									
84.3	103.0	ALTERATION ZONE: carb'tzd No.2 vein type mottling in patches. Generally fi, gr. pale green. Scatt. thin Q.C. seams areas qtz and qtz--carb mix. 84.3-85.0: 50% pink carb in blebs 86.0-86.6: ditto. 1/4" grey impure qtz 86.6-89.0: 60% pale greyish qtz w/ white feld mix. (albite?) Finely brecc'd. Minor carb. mix. and abund. chl. small patch ankerite? 91.3-92.4: 40% grey-white qtz-albite? mix plus carb. At 93.0: 2" broken vuggy. 95.8-98.3: 60% grey white qtz + albite? mix. Minor carb. spks, cpy. Minor pyr. Abund. green chlor.									
103.0	150.6	DIORITE: fi to med. gr., med. green (carbtz'd to 113) Abund. thin seams grey-white carb. and irreg. stks. to 3" 103.0-105.5: 5% grey carb. 105.5-108.0 10% grey qtz-carb. 3" grey qtz. 110.5-113.0: 15% greyish carb. scant pyr. chl. 115.5-124.0: finely feldspathic area 113 on: less carb. frags. 130.7-133: impure qtz. diorite, pale greenish grey alt'd 134.2-137.0: ditto									

LANGRAGES - TORONTO - 396-1168

E 10 5

## DIAMOND DRILL RECORD

NAME OF PROPERTY Kenora Prospectors Option (Mikado No.2 Shaft Area)HOLE NO. M81-12SHEET NO. 2

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		ID	FOOTAGE		%	AU		%
				FROM	TO		TOTAL	OF 100	
150.6	162.8	QUARTZ DIORITE: alt'd, ptic. Med greenish grey. med grained to fine Fine scant pyr. Abund Qtz. stks. and seams generally 30°-40° to core axis some with heavy pyr. cpy. Zns. Local section heavy cpy. Zns, pyr. in sil. matrix 157.0-158.5. 155.0-157.0: 80% grey white Qtz. Heavy conctn. cpy, Zns mix in 1" stk plus 1/2" patch. Abund chl. spks pyr. 157.0-158.5: 10% cpy, Zns mix. 159.5-162.8: 80% grey-white Qtz. Minor chlor. Minor cs pyr. spks grey black min. At 160.6: 3" sub. mass. pyr. Zns mix. w/thin mud seam in center.							
				150.5	155.0	4.5		NIL	
				155.0	157.0	2.0		0.030	
				157.0	158.5	1.5		0.029	
				158.5	159.5	1.0		0.002	
				159.5	162.8	3.3		0.700	
162.8	189.6	QUARTZ DIORITE: bordering on granodiorite: Ltly alt'd pale greyish green, med. gr. grading to cs. gr. 179.6-189.6: pink cast due to feld. altn. (granodiorite)		162.8	163.8	1.0		TR	
189.6	191.3	ANDESITE: f. gr. alt'd carbtz'd Small dikelet Q.D. at HW							
191.3	192.0	QUARTZ DIORITE: 20% Qtz. in blebs at HW and FW <1% cs pyr. chl. CA (opp. directs.) HW 35° FW 25°.		191.3	192.0	0.7		0.003	
192.0	192.8	SERPENTINIZED VOLCANIC: fl gr. med. green. Magnetic							
192.8	194.9	QUARTZ DIORITE: Alt'd B.L. grano as at 162.8							
194.9	195.7	SERP. VOL. as at 192.0 f. gr. dk. green. Magnetic							
195.7	198.8	ALTD Q.D at at 162.8							
198.8	204.3	DIORITE: fl. gr. fine diss'd feld. grains. mass.							
204.3	246.8	SERPENTINIZED VOLCANIC (Borders on talcy pyroxenite) fl. gr. dk. blackish mass. Few cubes pyr. Magnetic		222.4	225.6	3.2		0.002	
				225.6	229.5	3.9		0.003	
				229.5	232.6	3.1		0.003	
				232.6	236.5	3.9		TR	
				236.5	238.9	2.4		NIL	
				245.5	246.8	1.3		0.061	
				250.5	251.5	1.0		0.008	
				251.5	253.0	1.5		TR	

LANGRIGES - TORONTO - 386-1168

E 10 SW JJ 2

# DIAMOND DRILL RECORD

Kenora Prospectors Option (Mikado No. 2 Shaft Area)  
 NAME OF PROPERTY \_\_\_\_\_  
 HOLE NO. M8J-12 SHEET NO. 3

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		ID	FOOTAGE		%	%	Gr Tons	Gr Tons	
				FROM	TO					
		222.4-238.9: alt'd qtz. diorite. Yellowish cast, fi gr. sericitic scant fine diss'd pyr. 3/8", 1" grey qtz. frags. 240-246.8: less alt'd, harder, more mass. Many seams carb. to 1/8" Grades into qtz. diorite. At 245.6: 2"-heavy cpy, Zns (10% S) At 246.5: 2"-heavy cpy, Zns plus minor pyr. (10% S) 1/4" grey qtz. and 1/8" qtz. w/cs, Zns, spks, pyr.								
246.8	251.2	QUARTZ DIORITE: ptic. Mod. alt'd. Faint yellowish cast								
251.2	253.0	FELSITE DIKE: fi. gr. yellow cast. 1/16" fract grey qtz-albite plus low angle fract. w/skim pyr. chl. CA HW 70°  253 Hole Bottom								

LANGRISHES - TORONTO - 368-1168

E 10 SW JJ 2

# DIAMOND DRILL RECORD

NAME OF PROPERTY Kenora Prospectors (Mikado No.2 Shaft Area)  
 HOLE NO. M81-13 LENGTH 253'  
 LOCATION 100' SE of M81-12 Sect 5+50S 3+60E  
 LATITUDE 7728N DEPARTURE 9169E  
 ELEVATION \_\_\_\_\_ AZIMUTH Grid 238° DIP -55  
 STARTED Dec. 13/81 FINISHED \_\_\_\_\_

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
100	53				
200	52				
250	52				

HOLE NO. M81-13 SHEET NO. 1  
 REMARKS Drilled to check S.F. ext. of qtz etc cut in M81-12  
Host rock not cut. (Faulted S side E?)  
 LOGGED BY C.F. Desson

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON
					FROM	TO				
0	6.0	CASING								
6.0	13.3	DIORITE: med. gr. dk. green, mass. Badly broken to 8.0								
13.3	26.9	QUARTZ DIORITE: med. to cs. gr. pale grey, mass 19.0-21.7: spks. pyr. Fine gr. alt'd. 19.4-20.0 fi. gr. alt'd <1% diss'd pyr. Scant sericite			19.0	21.7	2.7		0.160	
26.9	27.1	DIORITE: as at start								
27.1	44.0	ALT'D & CARBTZ'D ANDESITE?: fi gr. local cser dtic sects. up to 6". Pale green. CA 20° At 27.6: small mud seam At 33: 6" F. P. cs. At 33.8 CA 5° At 34.0: Rusty vug. 34.4-38.8: highly alt'd carbtz'd. Abund. blebs pink calcite up to 5 mm similar to zone at 84.3 in M81-12 At 34.4: Rusty vug. At 40.0 CA 35° 38.8-40.8: alt'd, carbtz'd typical of zone 42.6-43.6: Q.F.P. grey, fi. to med. gr. alt'd. Spks leucoxene? At 44.0: CA 35°			34.4	38.8	4.4		0.003	
					38.8	408	2.0		NIL	
44.0	82.8	DIORITE: fi-med. gr. med. green, mass. Abund. hairline fracts grey carb. Few thin QC seams. 54.1-55.6: Q.F.P. cs yellow-green cast, sericitic 80-82.8: 1/8" en-echelon seams pink aplite w/epid. at 10°.								
82.8	96.4	ALTERATION ZONE: carbtz'd vol. in part dioritic text. Fi. gr. pale green. Large area brecc'd w/patches and cs stks. rusty carb. (deep reddish brown and pale brown colour carb) Minor Q.C.			89.0	93.0	4.0		0.003	
					93.0	96.4	3.4		0.009	
96.4	118.4	DIORITE: fi. gr. dk. green mass. At 107.5: 2" grey qtz. spks. pyr.								
118.4	130.7	ALTERATION ZONE: Highly carbtz'd as at 82.8. Few thin seams grey-white carb up to 1/2" plus irreg. patches to 2". Vugs w/carb. lining Fine pale green mottled areas similar to No.2 vein alt'n only paler.								

LANGRAGES - TORONTO - 366-1168





Surface Samples

<u>Location</u>	<u>Sample No.</u>	<u>Feet Width</u>	<u>oz/Au/t Assay</u>	<u>Remarks</u>
Trench H	K4243	1.6	0.68	Qtz. strs in pyritized felsic shear
C-4	44	2.9	0.008	ditto SE of Cedar Island
A-3	45	3.1	0.12	" " "
H	46	2.5	0.075	" " "
H	47	1.5	0.008	" " "
A	48	2.4	0.064	" " "
A	49	0.9	0.012	" " "
A-3	50	1.3	NIL	wallrock of 4245
Vein No. 9	51	1.2	NIL	Qtz vein S side of Ontario
9	52	1.0	0.003	Qtz vein N side of Ontario
9	53	1.3	0.038	" " " "
9	54	1.3	0.007	" " " "
9	55	1.4	0.012	" " " "
9	56	1.2	0.028	" " " "
9	57	1.4	0.009	" " " "
9	58	1.2	0.010	" " " "
9	59	1.0	0.018	" " " "
9N	60	0.8	0.008	Qtz vein in shear " "
9N	61	5.0	0.010	Felsic carbtz'd rusty shear"
9N	62	2.2	0.005	Qtz vein " "
9	63	0.9	0.033	" " " "
9	64	1.0	0.084	" " " "
9	65	1.5	0.100	" " " "
9	66	1.0	0.032	" " " "
9	67	0.6	0.200	" " " "
10	68	2.4	0.020	" " " "
11	69	1.3	0.038	" " " "
11	70	1.8	0.044	" " " "
8	71	1.2	0.044	" " " "
Pit B	K4303	4"	0.85	4" glassy quartz
	04	3"	7.62	3" glassy qtz. in shear
	05	3"	0.12	composite dump sample (grabs)
Pit C	06	3"	0.029	composite dump sample (#3 Shaft Dump)
Pit E	07	3"	0.070	composite dump sample (#3 Shaft Dump)
Pit D	08	3"	0.062	composite dump sample (#3 Shaft Dump)
Trench E-1	09	1.3	0.009	1450' SE of Cedar Island
Trench E-2	10	1.9	1.73	2130' SE of Cedar Island
McKinnon Reef	12	3"	1.45	3" qtz vein (north vein)
	13	3"	3.51	3" qtz vein (6' north of above)
	14	6"	0.077	6" vein + shear S of 4312
A Grid 16N	4281	5'	0.001	Qtz strs in 14' wide shear
	82	4'	0.017	" " " " " "
	83	0.5'	0.037	Qtz vein " " " "
	84	4.5	0.001	Qtz vein " " " "
	85	1.1	0.010	" " " shear N. of above



Ontario

Ministry of  
Northern Development  
and Mines

Ministère du  
Développement du Nord  
et des Mines

1 of 2 63.5293

E 10 SW JJ 2  
*File*



52E10SW8559 63.5293 SHOAL LAKE

900

August 15, 1989

Ms. Sue Dobson  
Kenora Prospectors and Miners Ltd.  
P. O. Box 1420  
Kenora, Ontario  
P9N 3X7

Dear Ms. Dobson:

Upon the termination of contract work by Mark Smith of the Ontario Geological Survey in the Shoal Lake area, he passed on to our Assessment Files Research Office (AFRO) in Toronto a file that contains information on property held by KPM, and prepared by Mr. C. F. Desson for Denison Mines Ltd. in 1982.

We intend to put this information on open file both at AFRO and in the Kenora Assessment Files, as it is a valuable contribution to an understanding of geological conditions in that area.

The file contains the following documents:

- 1) "Report on Kenora Gold Project, Kenora Prospectors and Miners Limited option": report by C.F. Desson, February 2, 1982, 25p., plus sample records (15p.), and diamond drill logs (51p., 16 holes).
- 2) Sections and Plans
  - a) Mikado:
    - 11 sections
    - 1 Drill Plan
    - 1 Surface Geology
  - b) Cedar Island:
    - 8 Sections
    - 2 Surface Geology
    - 1 Drill Hole Location Plan
    - 1 Composite Level Plan
    - 1 Surface Workings
    - 1 Surface Plan
    - 1 Magnetic Survey
    - 1 VLF-EM Survey
  - c) Mikado Bay Grid: 1 Mag and VLF Survey

Please contact this office if you have any concerns in releasing this information on open file.

Sincerely,

C.E. Blackburn  
Resident Geologist - Kenora District  
Mines and Minerals Division  
P. O. Box 5200  
Kenora, Ontario  
P9N 3X9  
Telephone: (807) 468-3658  
Fax: (807) 468-9451

CEB/mg  
c.c. Robert Owen, AFRO



FILE NTS: 52E/10 SW  
NTS2:  
NTS3:

FILE NO: JJ-2  
TOR FILE 1: 0.00000  
TOR FILE 2: 0.00000

FILE NAME: Denison Mines Limited  
DEP/OPT: Kenora Prospectors & Miners  
ALTERNATE 1: Limited  
ALTERNATE 2:

ASSESS DAYS: 0.0  
DATE WORK DONE: 1981  
DATE WORK FILED: 890929

AREA/TOWNSHIP1: Shoal Lake  
AREA/TOWNSHIP2:  
AREA/TOWNSHIP3:

NO. OF CLAIMS: 0

TYPE OF WORK: DD 16-7421', EM, Mag, SA, GL FILE STATUS: Non-Assess  
COMMODITY SOUGHT: MINERALIZATION:  
COMMODITY FOUND: ANNUAL REPORT YEAR: 1989  
DESCRIPTION: 1 cl, (Mikado) 11 sec, 1 D pln, 1 surf gl, 1 Mag-VLF, (Cedar  
|) 8 sec, 2 s gl, 1 DH loc, 1 comp, 1 sur wkgs, 1 surf pln, 1 Mag, 1 EM

\*\*\* ALTERED RECORD \*\*\* CHANGED: 10/03/89

E 10 SW JJ 2

SEND TO

Bob Owen  
 Assessment File Office  
 72 Grenville

FROM

C. Blackburn

DEPT.

Kerwin

DATE

6 Oct 87

SUBJECT

Denton file, Shoal Lake

Here is your copy of this file  
 I have had no reply from Ms. Dobson,  
 and so am putting it in file.

The number (E10SW 052) at the  
 top of the Aug. 15 letter is now file #

Hope this clears this up —  
 Long time, eh?!

Charlie

REPLY

REPLY FROM

REPLY DATE

TO WRITE: HANDWRITE OR TYPE, REMOVE AND RETAIN  
 YELLOW COPY, FORWARD BALANCE OF SET.

TO REPLY: WRITE REPLY IN BOTTOM  
 AREA, SNAP SET APART.



Ontario

▶ FOLLOW THESE MARKS FOR USE IN # 9 OR # 10 WINDOW ENVELOPE ◀

RETAIN ORIGINAL AND RETURN PINK COPY



Ministry of  
Northern Development  
and Mines  
Ministère du  
Développement du Nord  
et des Mines

Mini Memo

May 4/89

To / à C. Blackburn  
Resident - Kenora Office

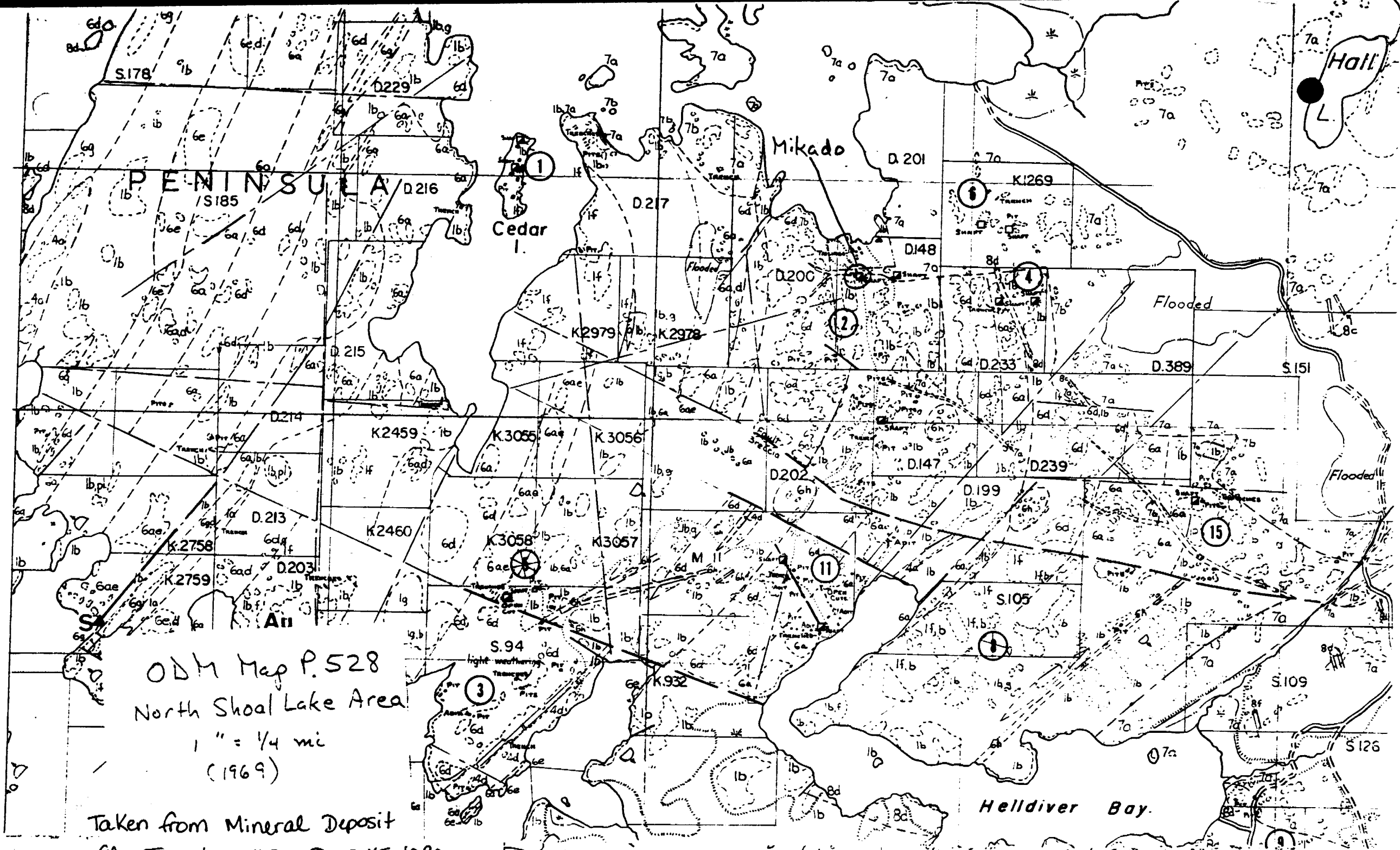
as per our discussion, here is the  
Denison material on the Michada and Cedar  
Island deposits in Glass Township (Shoal  
Lobe Claim Map).

It was given to me by Mark Smith, who  
says he received it from John Davies.

If you can check on its eligibility  
for inclusion in the public record, I would  
be most grateful. Please let me know if you  
come up with anything.

From / de

ROBERT OWEN  
O.G.S., ASSESSMENT FILES OFFICE  
77 GRENVILLE ST., #812  
TORONTO, ONT. M7A 1W4



ODM Map P.528  
 North Shoal Lake Area  
 1" = 1/4 mi  
 (1969)

Taken from Mineral Deposit  
 file, Toronto, MIKADO, DIST. KENORA  
 TWP. GLASS



MAIN COMMODITY: Au OTHER COMMODITIES: Ag	DEPOSIT NAME: Mikado	DOCUMENT NO.: SMDR 001336	PAGE 1 OF 4
LUNE NO.: EASTING: NORTHING: COORD. RELIABILITY:	<del>CTY.</del> OR DIST.: Kenora CODE NO.:	MINING DIV.: RES. GEOL. DIST.:	
	TOWNSHIP: Glass TP. CODE NO.:	DIV. OF FORESTS DIST.: DIVISION OF FORESTS DIST. CODE NO.:	
NTS (15 min. square): 052/E/10 SW LAT. SE CORNER: 49°30'      LONG. SE CORNER: 94°45'		LOCATION: (Give a general location from a town, lake, highway, etc., Tp. or NTS, part of a township etc., lot and concession, number of claims, list by claim number important claims with showings, surface drilling, shafts, workings, etc. For Indian Reserves give the Reserve name, Reserve No. and Code No.)  The mine is located in west central part of Glass Township, about 1.8 Km (1 1/8 mile) WSW of the southern tip end of Hall Lake, 1.2 Km (3/4 mile) ESE of the southern tip end of Cedar Island and about 1.6 Km (1 mile) north of the northern shores of Helldiver Bay.  It is located in claim D. 148, about 32 Km (20 miles) SW of Kenora.	
MAP REFERENCE POINT SELECTED: Western most shaft in claim D. 148  PUBLISHER & NO. OF MAP USED: ODM P. 528      1 in. to 1/2 mile			
LOCATION OF REFERENCE POINT LAT.: 49°35'18"      LONG.: 94°57'22"      (Deg., min., sec.)  LAT.: 49.5883      LONG.: 94.9561      (Decimals up to 5) (use Gazetteer when Tp. centre is selected as ref. pt.) PRECISION (feet): <input type="checkbox"/> 10 <input checked="" type="checkbox"/> 100 <input type="checkbox"/> 1000 <input type="checkbox"/> 5000 <input type="checkbox"/> 50000			
REG. GEOL. MAP NO.: ODM 2115      1 in. to 4 miles REG. GEOL. MAP NAME: Kenora-Fort Frances Sheet			
GEOL. MAP NO.: ODM P. 528      1 in. to 1/2 mile GEOL. MAP NAME: North Shoal Lake Area, East Sheet			
REG. AEROMAG. MAP NO.: GSC Map 7106G      1 in. to 4 miles REG. AEROMAG. MAP NAME: Kenora AEROMAG. NO.: GSC map 1186G      1 in. to 1 mile			
CLAIM MAP NO.:      CLAIM MAP NAME:  M. 2339      Shoal Lake Area			
SHAPE OF THE ORE ZONE OR MINERALIZED ZONE: PLAN <input type="checkbox"/> SECTION <input type="checkbox"/> LONGITUDINAL PROJECTION <input type="checkbox"/> OTHER <input type="checkbox"/> REFERENCE(S):			
DOM      OCCURRENCE <input type="checkbox"/> PROSPECT <input type="checkbox"/> MINE <input checked="" type="checkbox"/>			
NAC    OCCURRENCE <input type="checkbox"/> RAW PROSPECT (LxW) <input type="checkbox"/> DEVELOPED PROSPECT (LxWxD) <input type="checkbox"/> PRODUCER <input type="checkbox"/> PAST PRODUCER <input checked="" type="checkbox"/>			

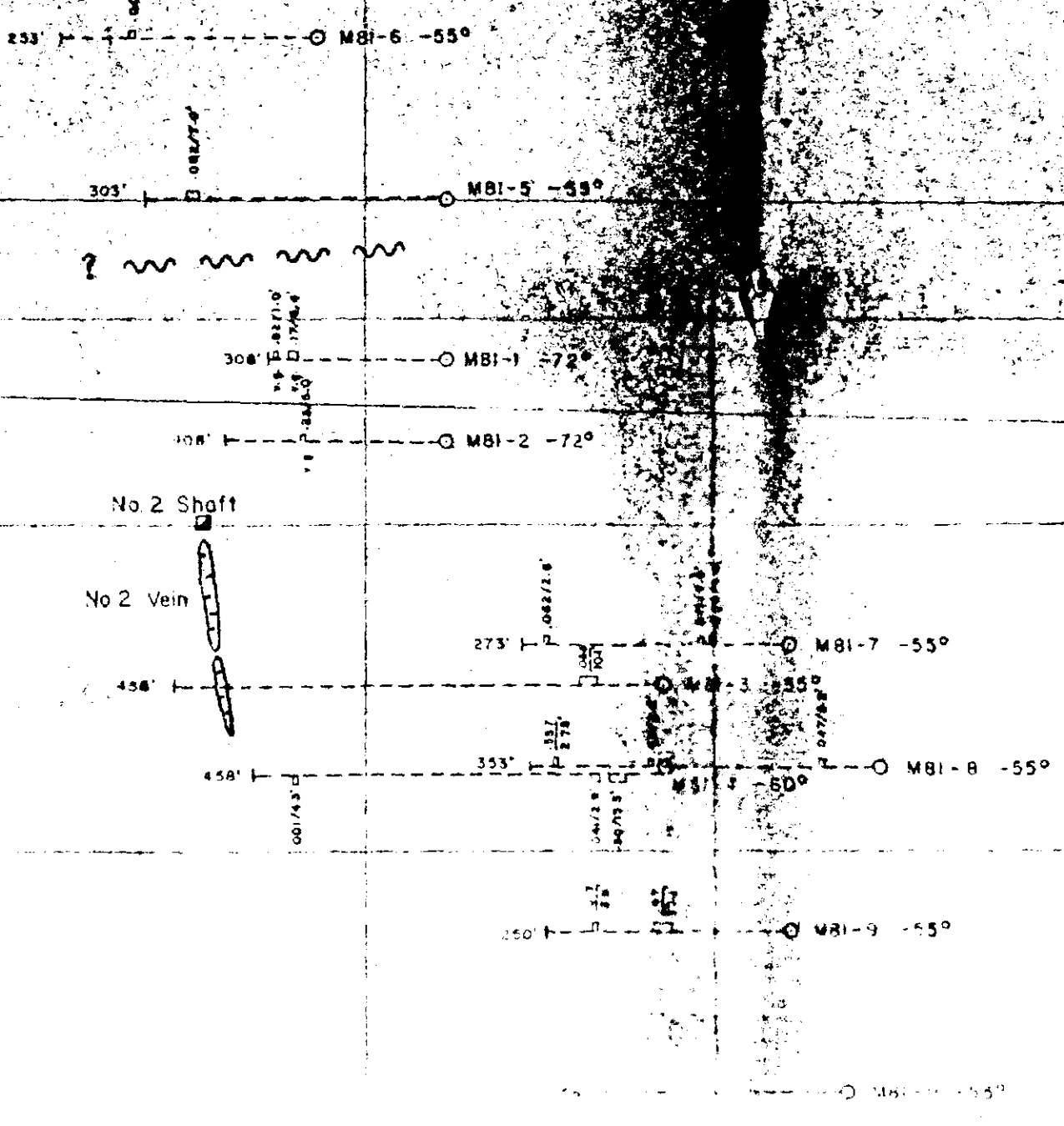
S, P, 06,



MAIN COMMODITY: Au  OTHER COMMODITIES: Ag	DEPOSIT NAME: Cornucopia OTHER NAME: Cedar Island	DOCUMENT NO.: SMDR 001335	PAGE 1 OF 6
LUNE NO.: EASTING: NORTHING: COORD. RELIABILITY:	<del>CTY OR</del> DIST.: Kenora CODE NO.:  TOWNSHIP: Glass TP. CODE NO.:	MINING DIV.: RES. GEOL. DIST.:  DIV. OF FORESTS DIST.: DIVISION OF FORESTS DIST. CODE NO.:	
NTS (15 min. square): 052/E/10 SW LAT. SE CORNER: 49°30'      LONG. SE CORNER: 94°45'		LOCATION: (Give a general location from a town, lake, highway, etc., Tp. or NTS, part of a township etc., lot and concession, number of claims, list by claim number important claims with showings, surface drilling, shafts, workings, etc. For Indian Reserves give the Reserve name, Reserve No. and Code No.)  The mine is situated in the western part of Glass Township, in southern extension of Bag Bay, on Cedar Island.  It is about 0.2 Km (1/8 mile) north of the southern tip-end of Cedar Island, and about 2.8 Km (1 3/4 miles) north of Kelly's Point.  It is approximately 32 Km (20 miles) south west of Kenora.          S, P, 07,	
MAP REFERENCE POINT SELECTED: Southern shaft beside symbol 1, Cedar Island. PUBLISHER & NO. OF MAP USED: ODM P. 528      1 in. to 1/2 mile			
LOCATION OF REFERENCE POINT LAT.: 49°35'31"      LONG.: 94°58'25"      (Deg., min., sec.)  LAT.: 49.5919      LONG.: 94.9736      (Decimals up to 5) (use Gazetteer when Tp. centre is selected as ref. pt.) PRECISION (feet): <input type="checkbox"/> 10 <input checked="" type="checkbox"/> 100 <input type="checkbox"/> 1000 <input type="checkbox"/> 5000 <input type="checkbox"/> 50000			
REG. GEOL. MAP NO.: ODM 2115      1 in. to 4 miles REG. GEOL. MAP NAME: Kenora-Fort Frances Sheet			
GEOL. MAP NO.: ODM P. 528      1 in. to 1/2 mile GEOL. MAP NAME: North Shoal Lake Area, East Sheet			
REG. AEROMAG. MAP NO.: GSC Map 7106G      1 in. to 4 miles REG. AEROMAG. MAP NAME: Kenora AEROMAG. NO.: GSC map 1186G      1 in. to 1 mile			
CLAIM MAP NO.:      CLAIM MAP NAME: M. 2339      Shoal Lake Area			
SHAPE OF THE ORE ZONE OR MINERALIZED ZONE: PLAN <input type="checkbox"/> SECTION <input type="checkbox"/> LONGITUDINAL PROJECTION <input type="checkbox"/> OTHER <input type="checkbox"/> REFERENCE(S):			
DOM      OCCURRENCE <input type="checkbox"/> PROSPECT <input type="checkbox"/> MINE <input checked="" type="checkbox"/>			
NAC    OCCURRENCE <input type="checkbox"/> RAW PROSPECT (LxW) <input type="checkbox"/> DEVELOPED PROSPECT (LxWxD) <input type="checkbox"/> PRODUCER <input type="checkbox"/> PAST PRODUCER <input checked="" type="checkbox"/>			

No. 1 Vein  
Decline (on vein)  
No. 1 Shaft

Base Line 00



200 N

100 N

00

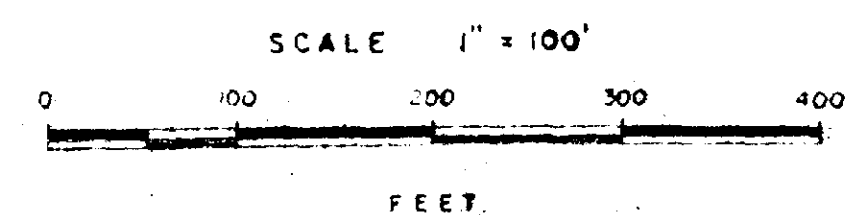
100 S

200 S


300 S

400 S

240' MBI-13 -55°



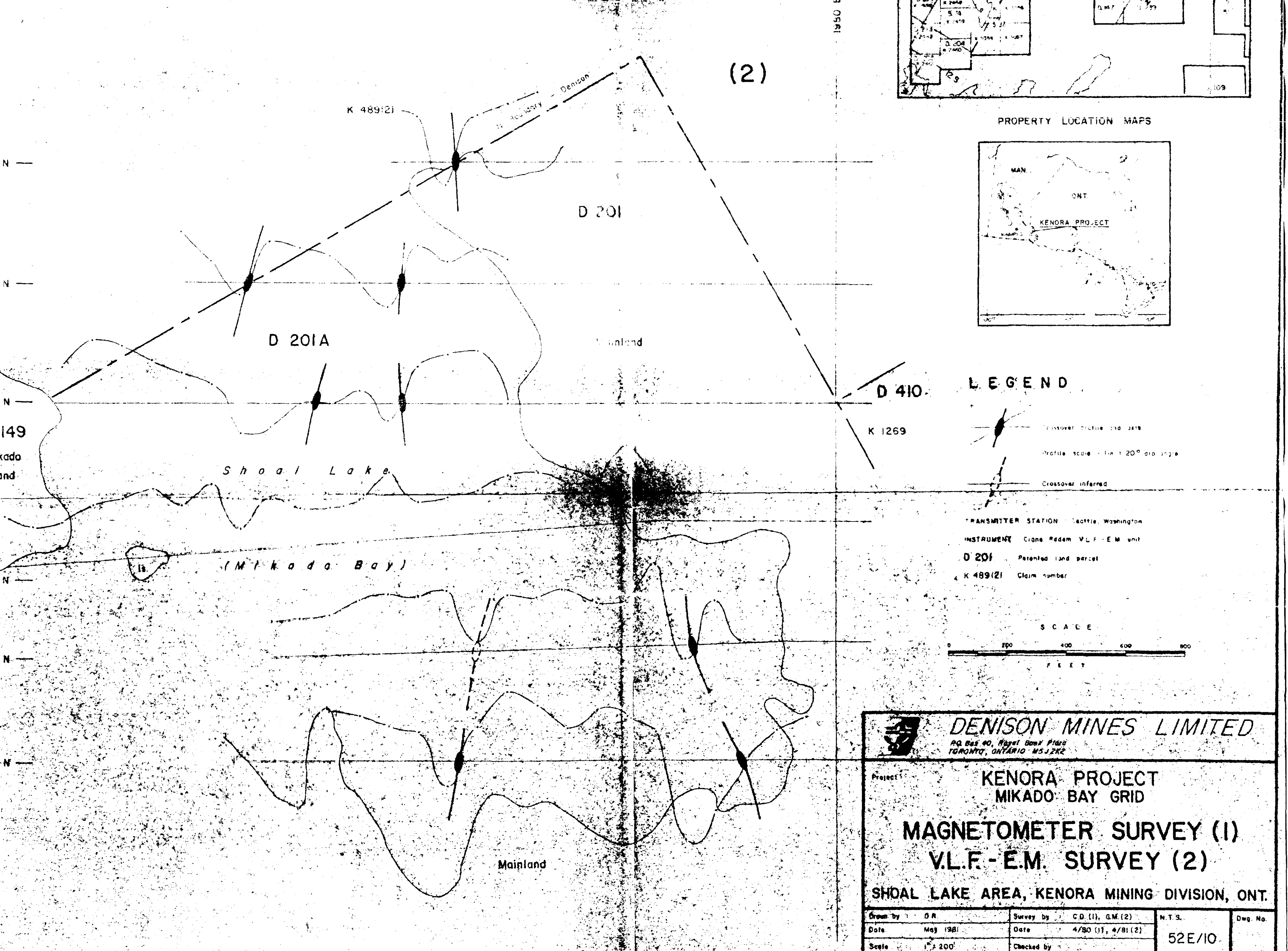
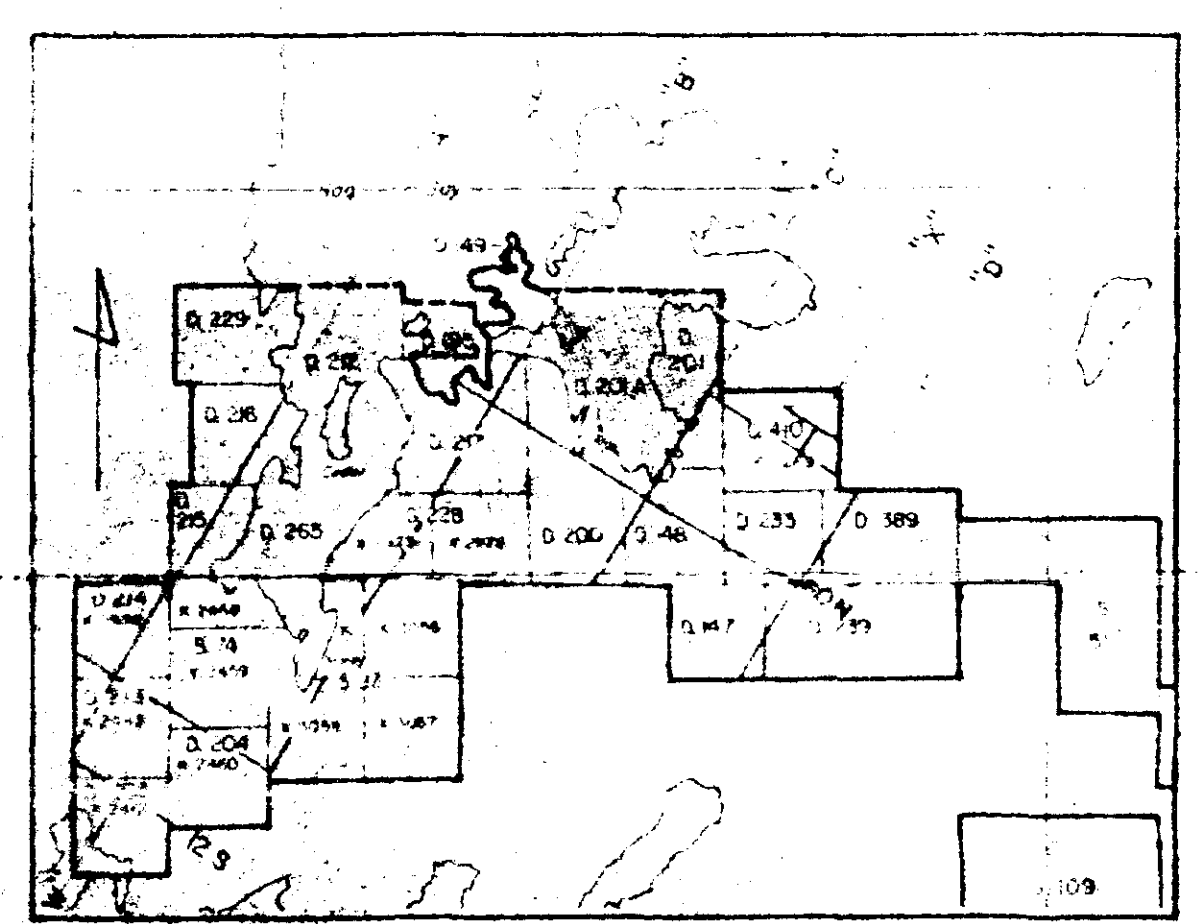
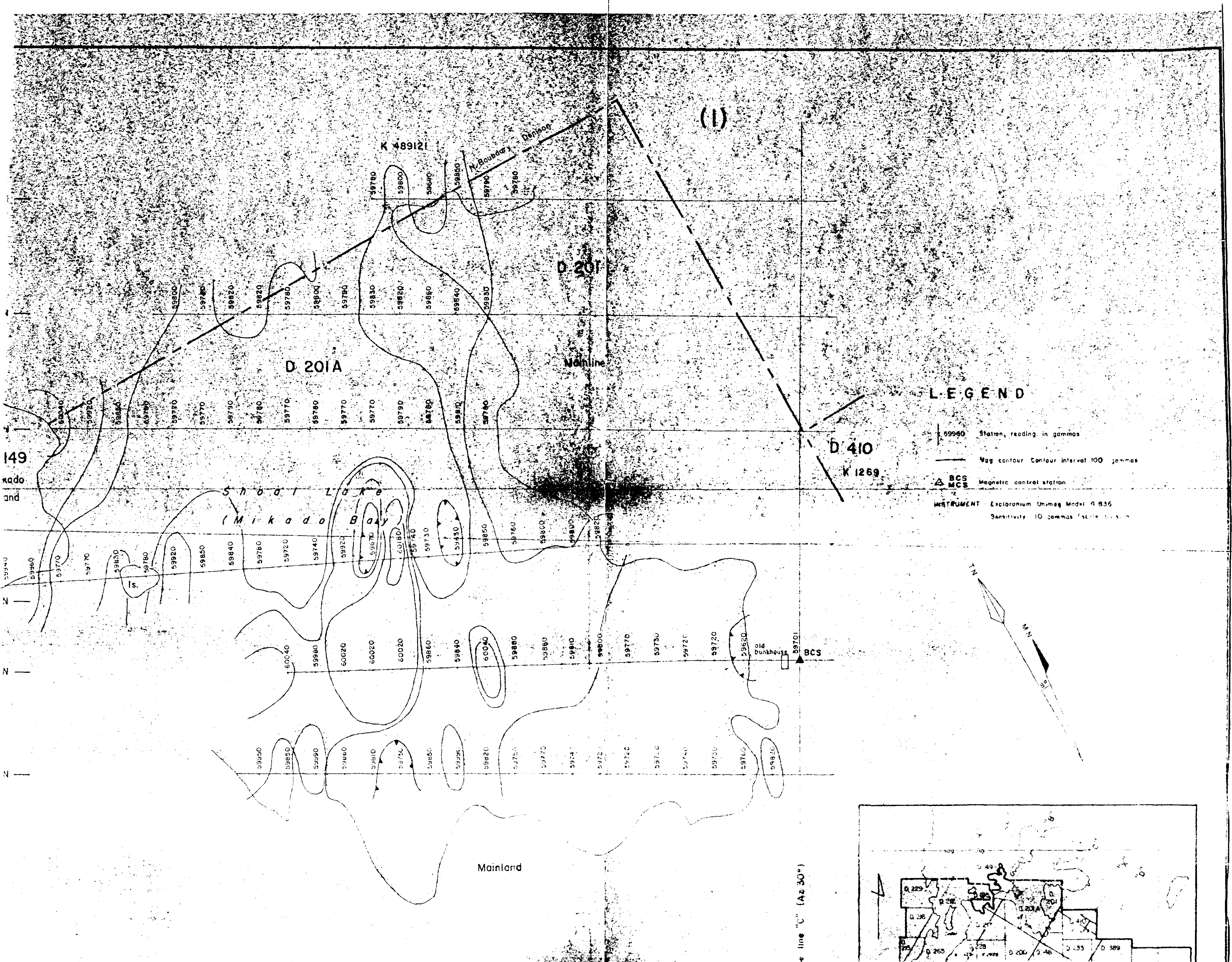
E 10 SW JJ 2

 <b>DENISON MINES LIMITED</b> <small>P.O. Box 40, Royal Bank Plaza TORONTO, ONTARIO M5J 2K2</small>			
Project: <b>KENORA GOLD PROJECT</b>			
<b>DRILL PLAN MIKADO MINES</b>			
<b>GLASS TWP., KENORA MINING DIVISION, ONT.</b>			
Drawn by	M.C.	Survey by	C. D.
Date	DECEMBER 1981	Date	DECEMBER 1981
Scale	1" = 100'	Checked by	
		N.T.S.	Drwg. No.
		52E/10	2.0

63.5293







**DENISON MINES LIMITED**  
 100 Bay St., Royal Bank Plaza  
 TORONTO, ONTARIO M5J 2K2

Project: **KENORA PROJECT  
 MIKADO BAY GRID**

**MAGNETOMETER SURVEY (1)  
 V.L.F.-E.M. SURVEY (2)**

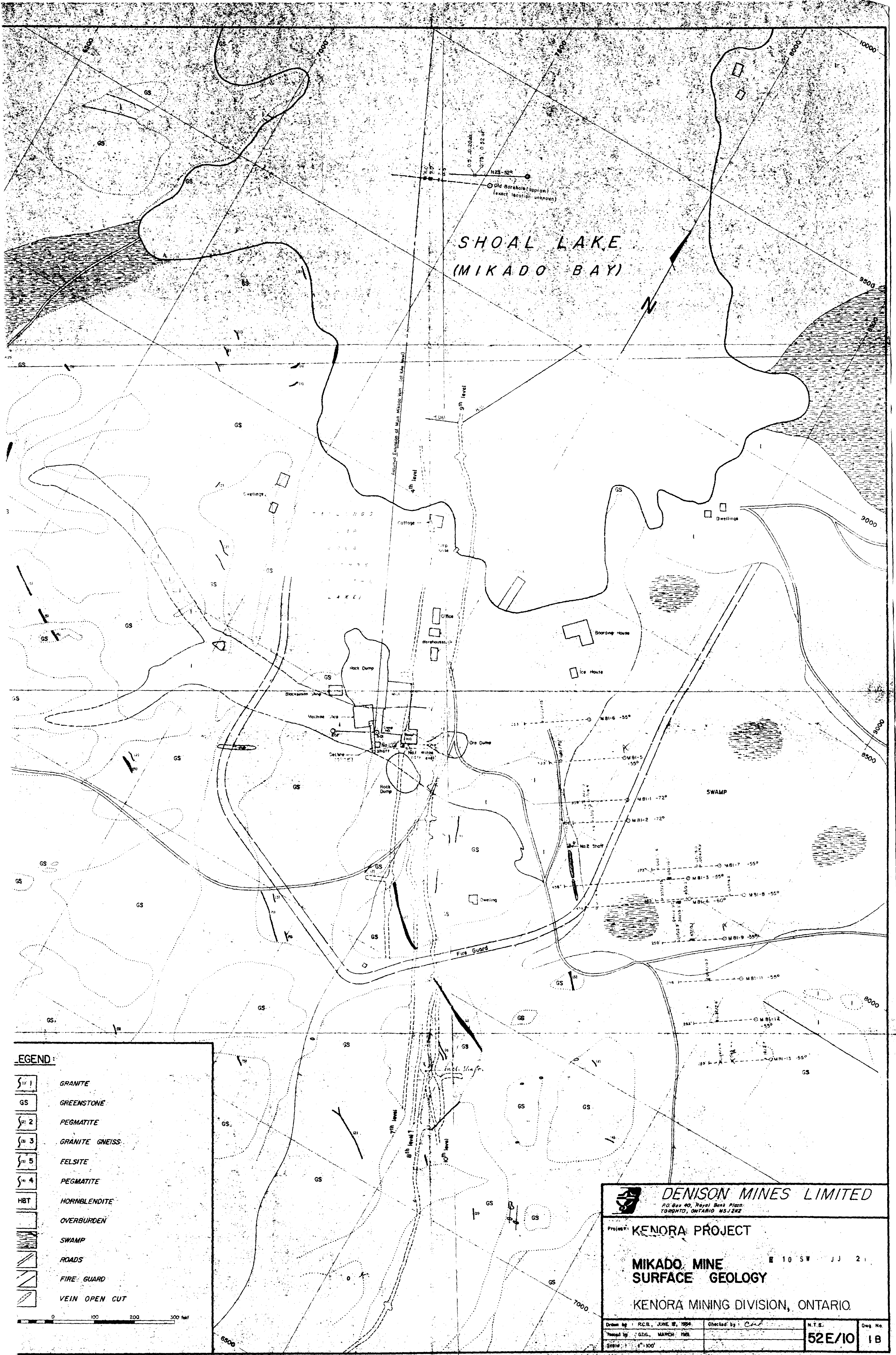
SHOAL LAKE AREA, KENORA MINING DIVISION, ONT.

Drawn by: D.R.	Survey by: C.D. (1), G.M. (2)	N.T.S.	Drawn No.
Date: May 1981	Date: 4/30 (1), 4/31 (2)	52E/10	
Scale: 1" = 200'	Checked by:		

63.5293



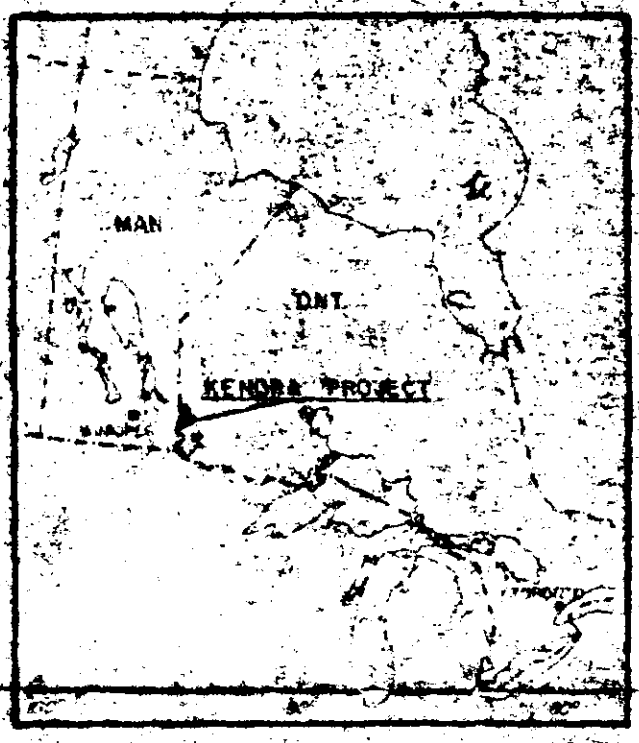
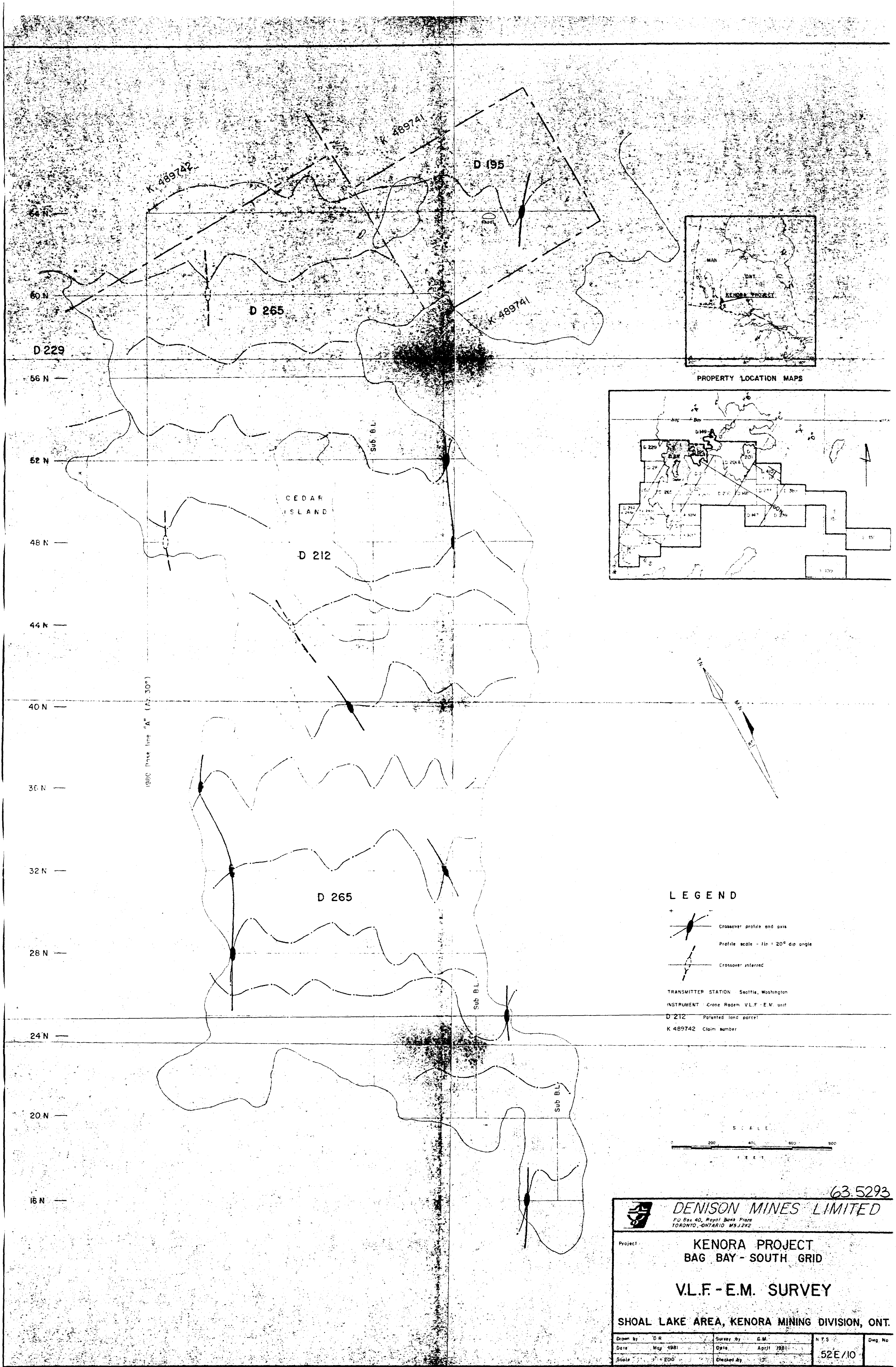




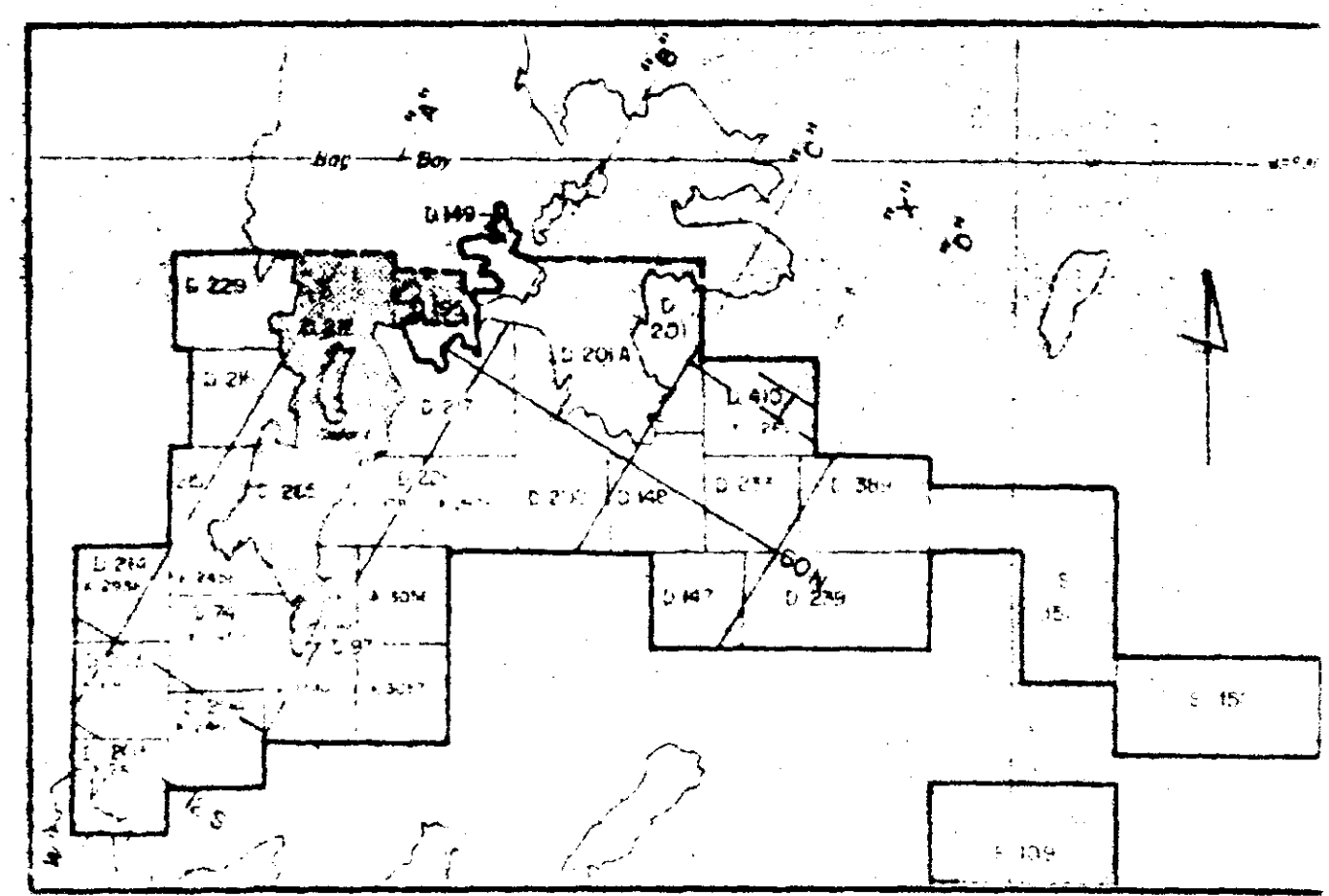
63.5293







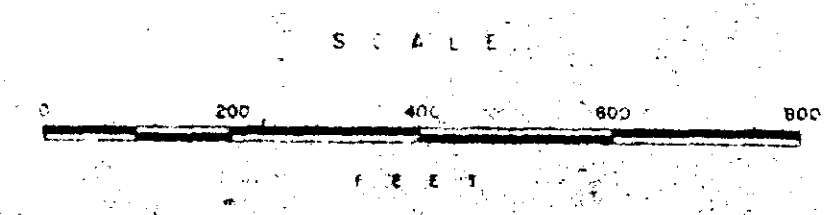
PROPERTY LOCATION MAPS



**LEGEND**

- Crossover profile and axis
- Profile scale - 1 in = 20° dip angle
- Crossover inferred

TRANSMITTER STATION - Seattle, Washington  
 INSTRUMENT - Crane Radem V.L.F. - E.M. unit  
 D 212 - Potential land parcel  
 K 489742 - Claim number



63-5293

**DENISON MINES LIMITED**  
 P.O. Box 40, Royal Bank Plaza  
 TORONTO, ONTARIO M5J 2K2

Project: **KENORA PROJECT**  
**BAG BAY - SOUTH GRID**

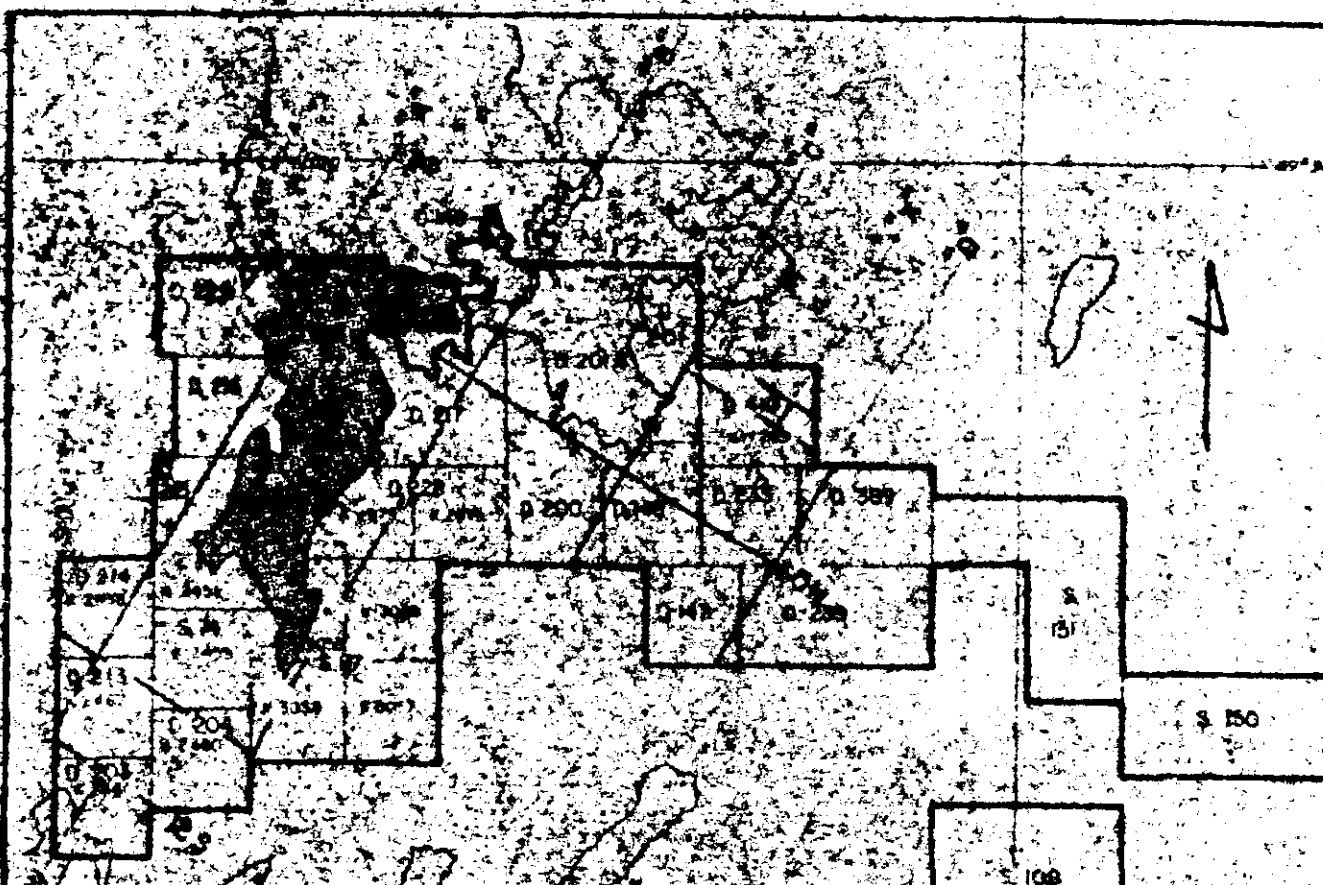
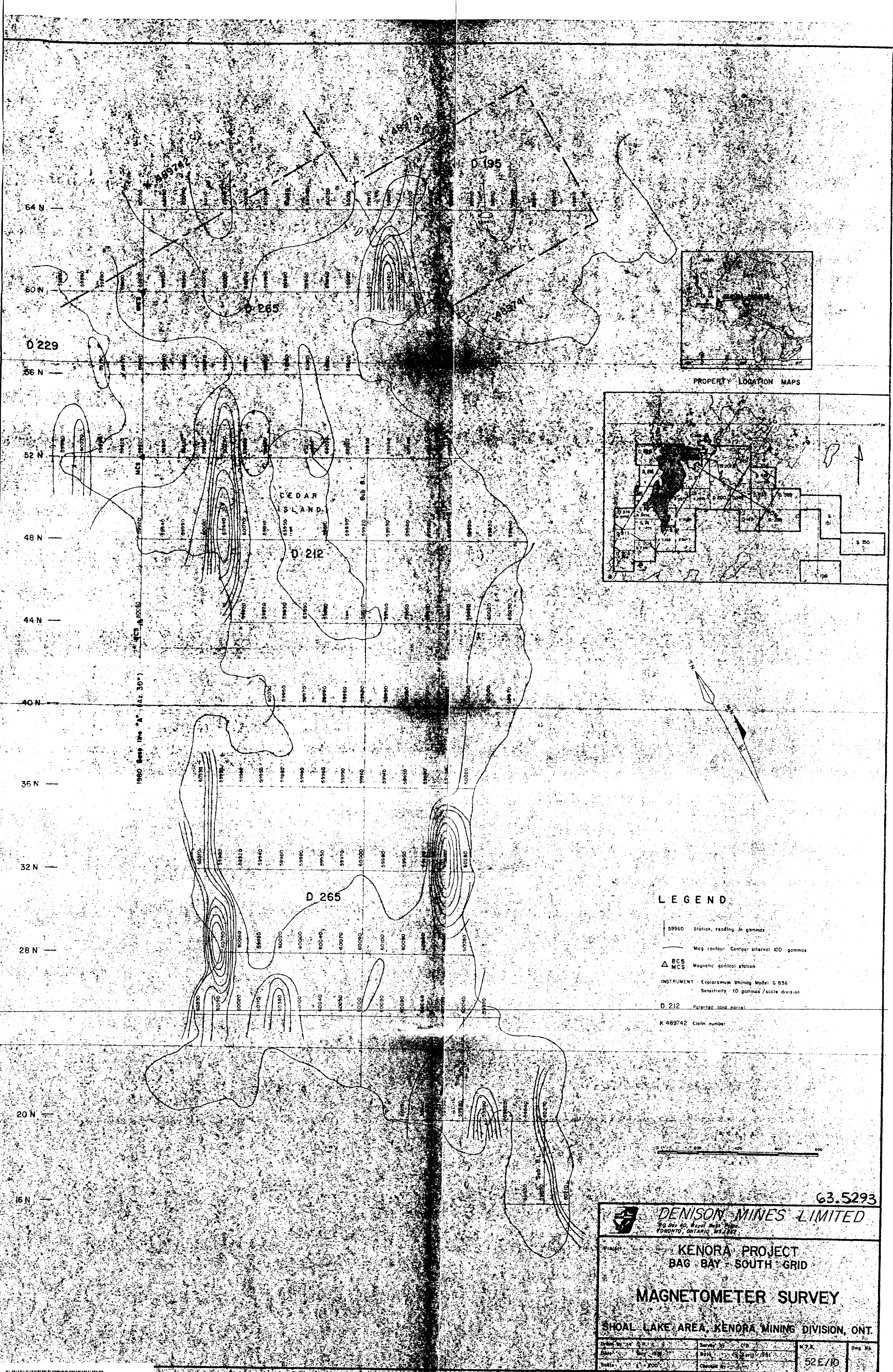
**V.L.F. - E.M. SURVEY**

SHOAL LAKE AREA, KENORA MINING DIVISION, ONT.

Drawn by: T.R.	Survey by: G.M.	N.T.S.	Dwg. No.
Date: May 1981	Date: April 1981		
Scale: 1" = 200'	Checked by:		52E/10

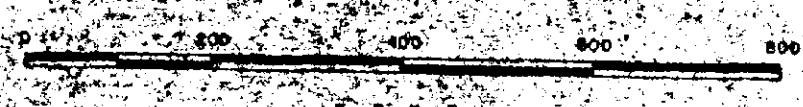






**LEGEND**

- 59960 Station, reading in gammas
- Mag contour Contour interval 100 gammas
- BCS MCS Magnetic control station
- INSTRUMENT: Explorerum Whimig Model G 836  
Sensitivity: 10 gammas / scale division
- D 212 Patented land parcel
- K 489742 Claim number



63.5293

**DENISON MINES LIMITED**  
 100 Denison Street, Toronto, Ontario, M5S 1B2

**KENORA PROJECT**  
**BAG BAY - SOUTH GRID**

**MAGNETOMETER SURVEY**

SHOAL LAKE AREA, KENORA MINING DIVISION, ONT.

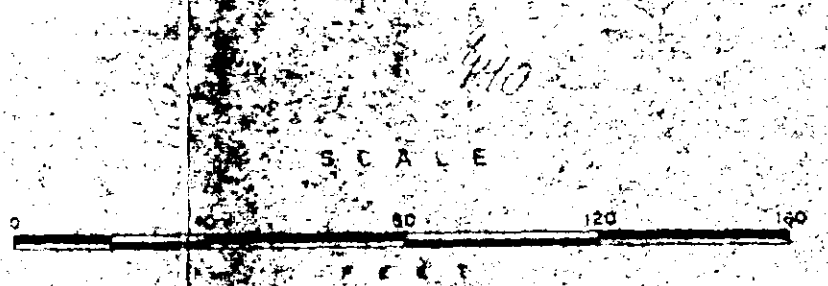
Date: May 1981	Scale: 1" = 100'	Sheet: 52E/10	Drawn By: [Signature]
----------------	------------------	---------------	-----------------------





**LEGEND**

	1st level - 85 feet
	2nd level - 144 feet
	3rd level - 283 feet
	4th level - 393 feet
	5th level - 500 feet
	6th level - 625 feet



**DENISON MINES LIMITED**  
PO Box 40, Hazelton, B.C. Canada  
 TORONTO, ONTARIO, M5E 1K2

Project: **KENORA GOLD PROJECT**

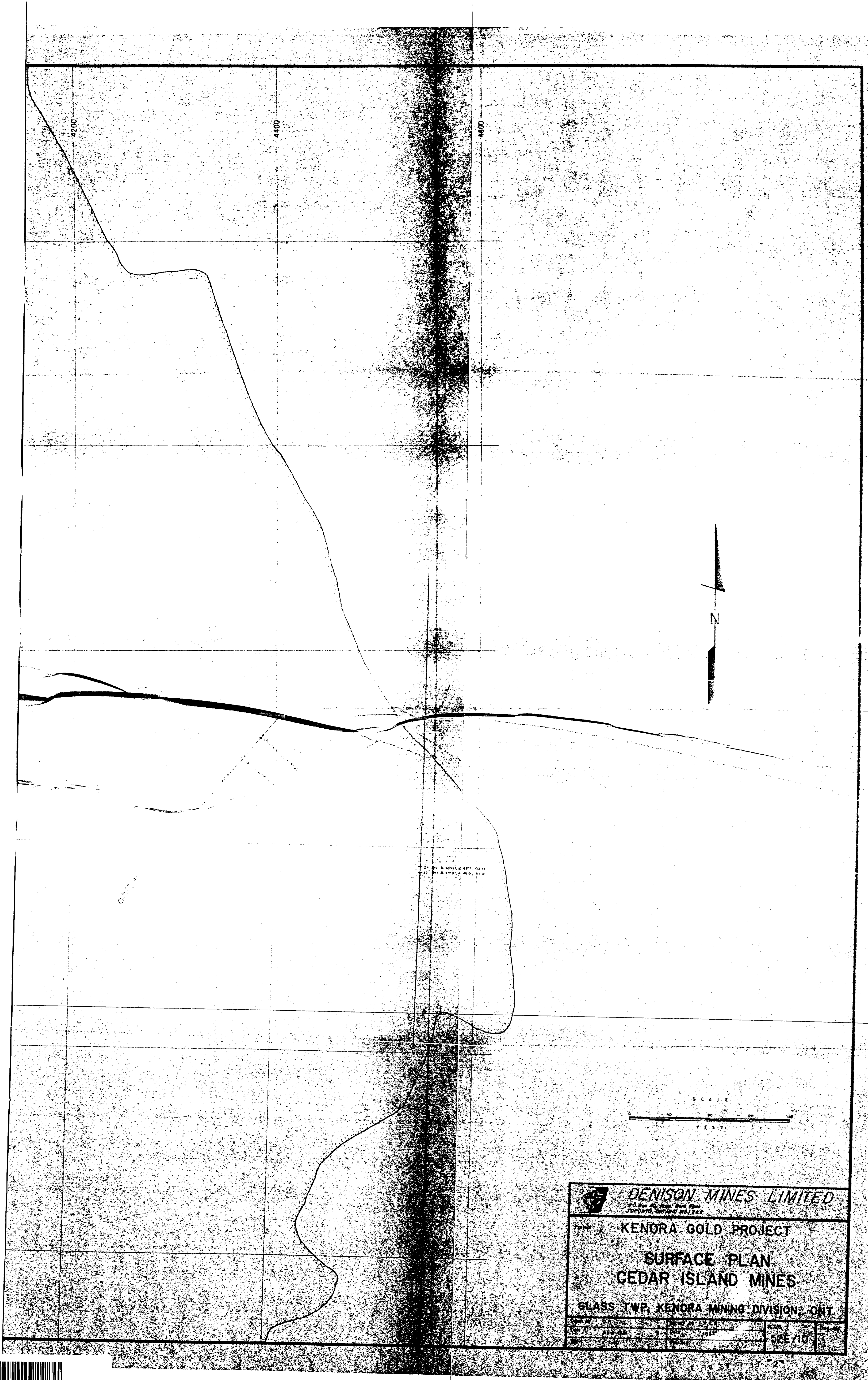
**COMPOSITE LEVELS PLAN**  
**CEDAR ISLAND MINES**

GLASS TWP, KENORA MINING DIVISION, ON

Drawn by: C.D.R.	Survey by: Kenora Project, Denison Ltd. U.S.	Date:
Date: April 1985	Date: May 1985	Scale: 1" = 40'
Checked by: C.A.	52E/10	







**DENISON MINES LIMITED**  
170 King St. West, Suite 2000  
 Toronto, Ontario M5H 1K5, CAN.

Project: **KENORA GOLD PROJECT**

**SURFACE PLAN  
 CEDAR ISLAND MINES**

GLASS TWP., KENORA MINING DIVISION, ONT.

Scale	1" = 100'
Sheet No.	52E/10







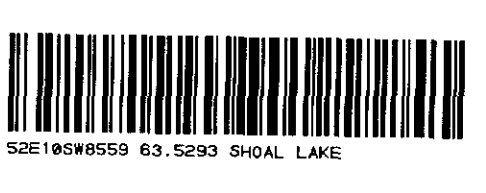
L E G E N D

SHOAL LAKE  
BIG BAY

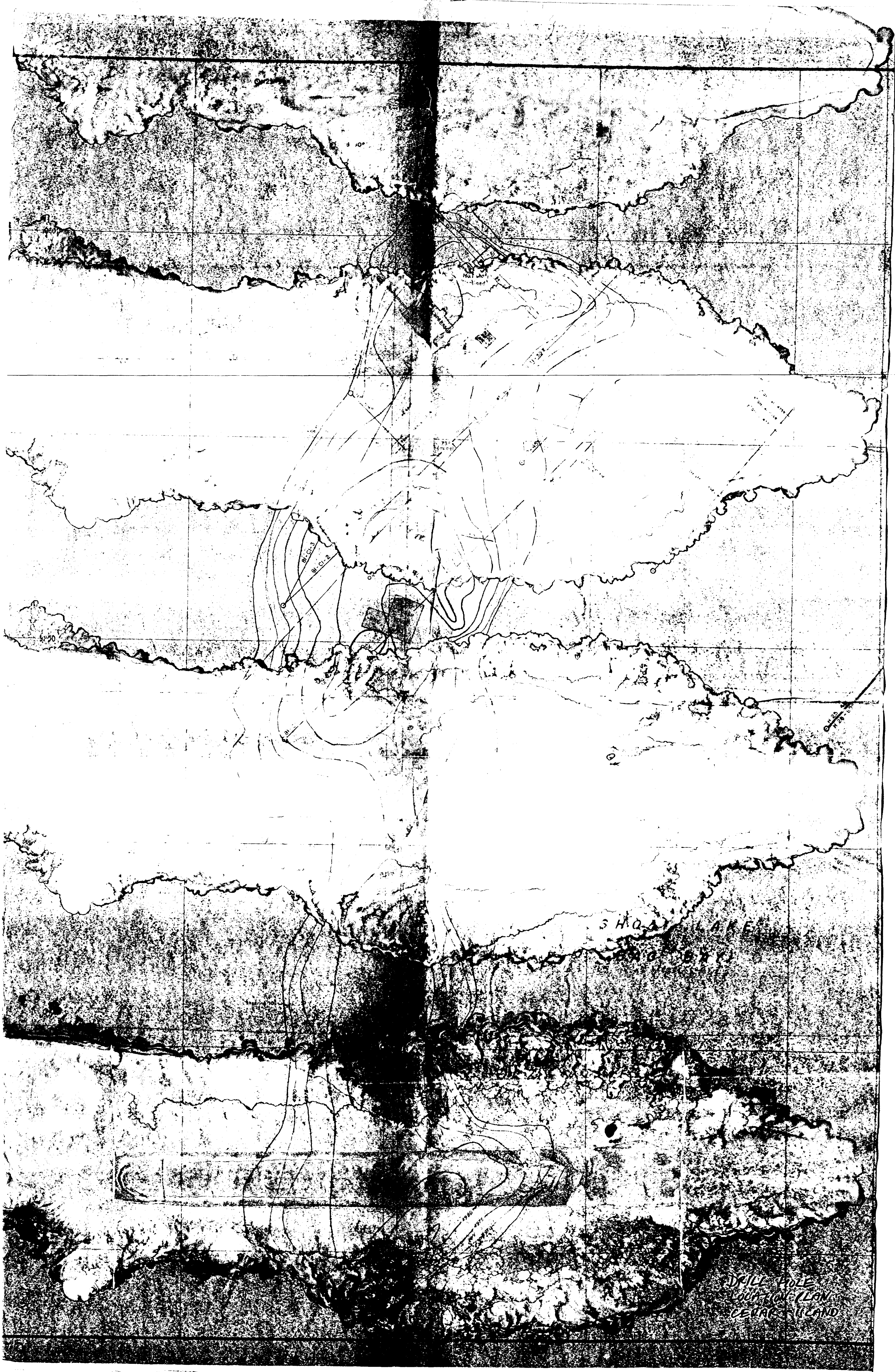
**DENISON MINES LIMITED**  
 P.O. Box 40, Rays Beach Place  
 Toronto, Ontario, M5A 2K2

Project: **KENORA GOLD PROJECT**  
**SURFACE GEOLOGY**  
**CEDAR ISLAND MINES**  
 E 4.0 S W 23  
**GLASS TWP., KENORA MINING DIVISION, ONT.**

Drawn by: D.R.	Survey by: D. Derry	M.F.S.	Dwg. No.
Date: April, 1981	Date: Sept., 1984	52E/10	
Scale: 1:100	Checked by:		





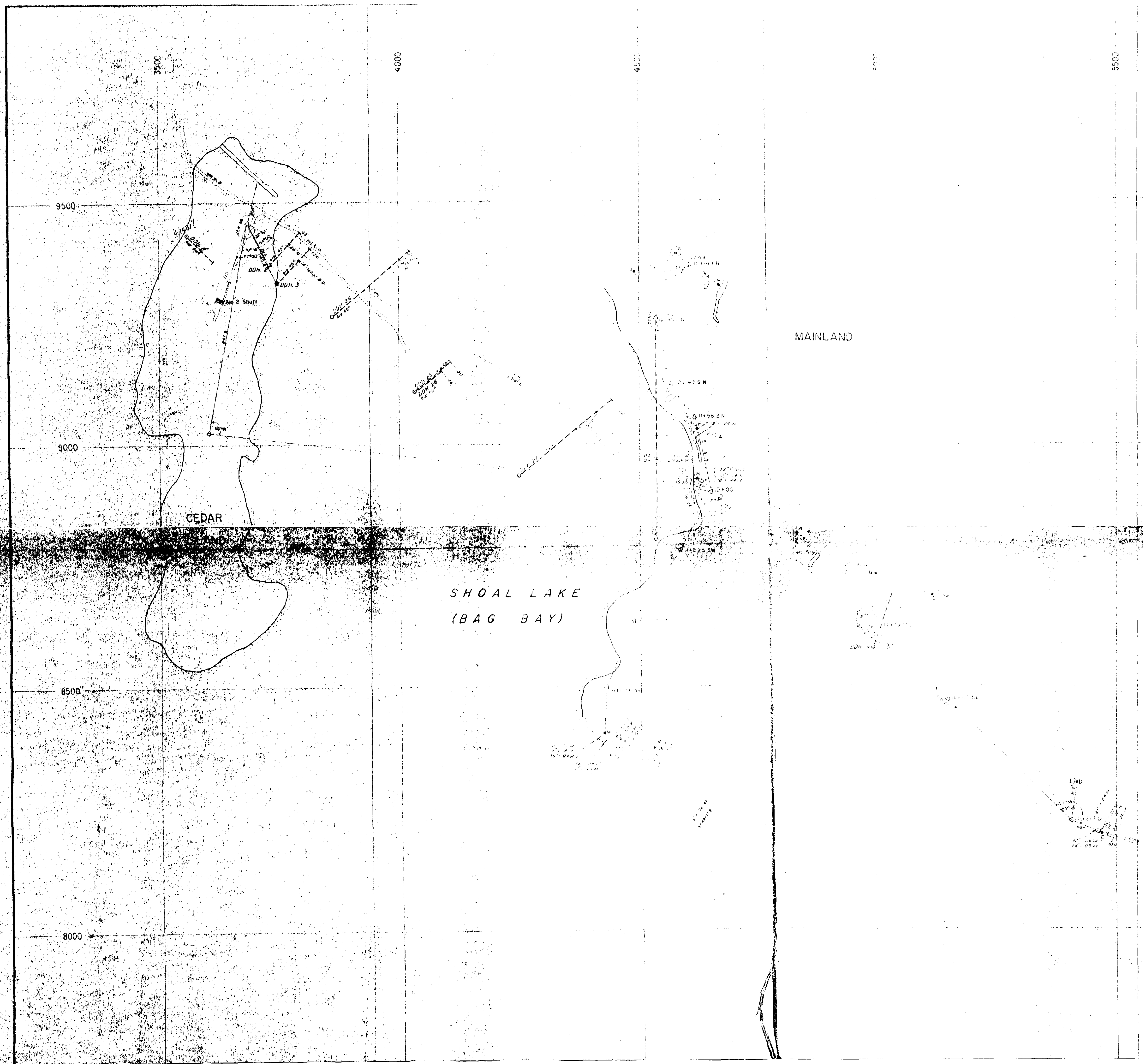


DRILL HOLE  
LOCATION (LAN)  
CEDAR ISLAND

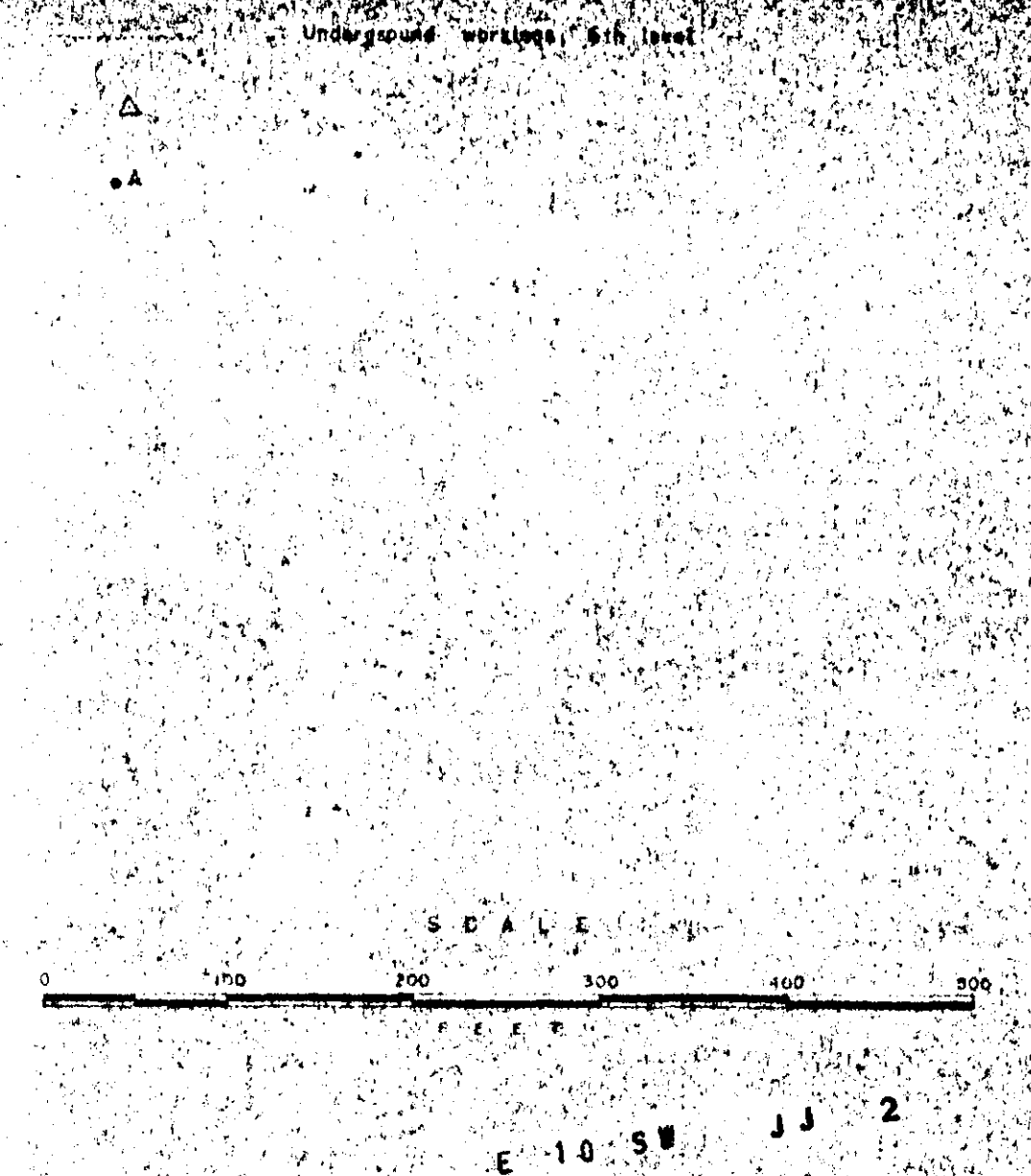
63.5293







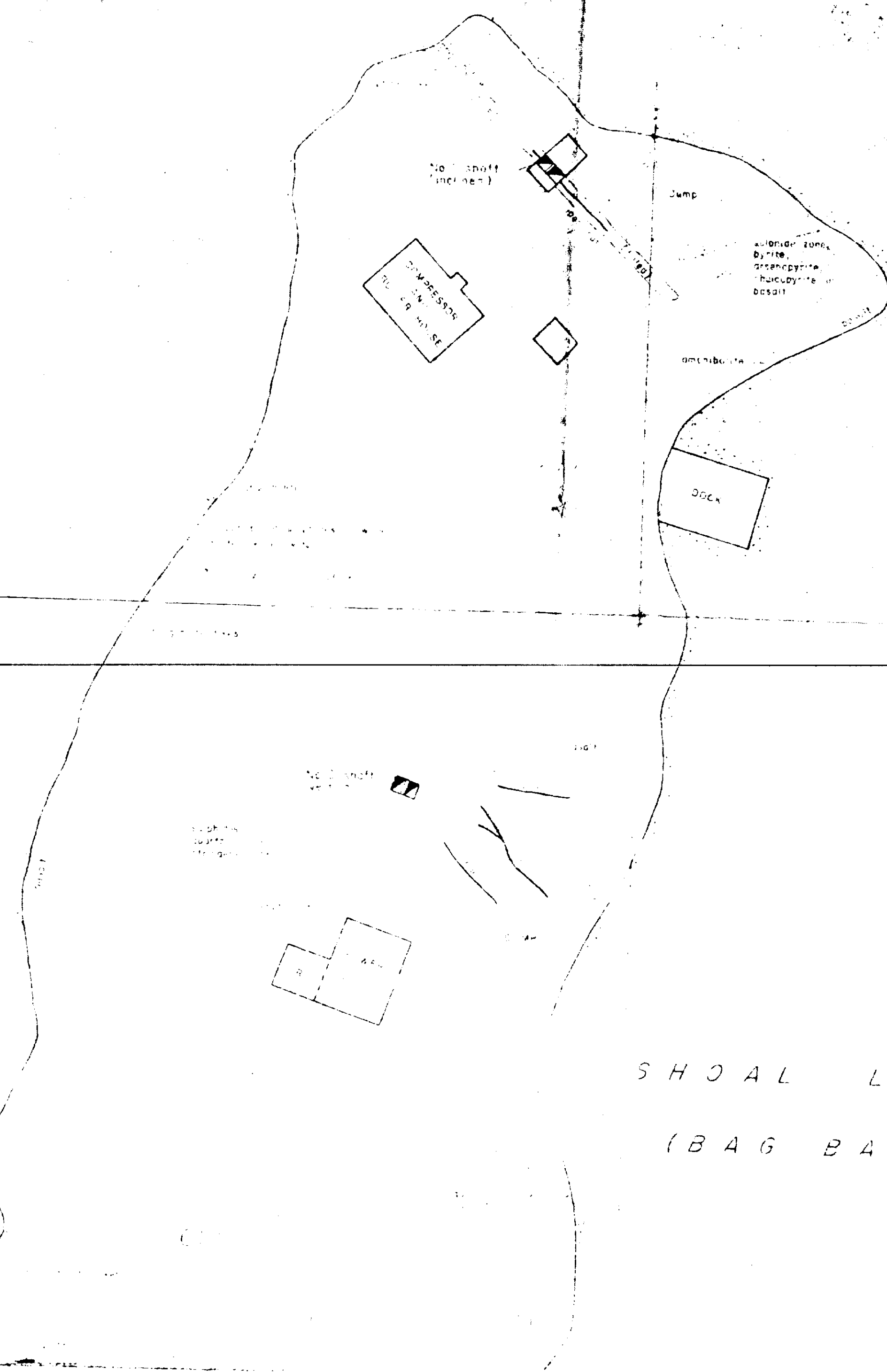
LEGEND



**DENISON MINES LIMITED**  
 P.O. Box 40, Royal Bank Plaza  
 TORONTO, ONTARIO M5Y 2A2

Project: **KENORA GOLD PROJECT**  
**SURFACE WORKINGS ON MAINLAND**  
**EAST OF CEDAR ISLAND,**  
**CEDAR ISLAND MINES**  
 GLASS TWP, KENORA MINING DIVISION, ONT.

Drawn by: D.R.	Survey by: Kenora Press. & Miners Ltd.	N.T.S.	Drawn by:
Date: April 1981	Date: June 1986	100-210	

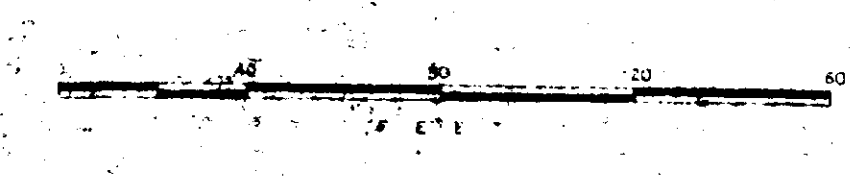


SHOAL LAKE  
(BAG BAY)

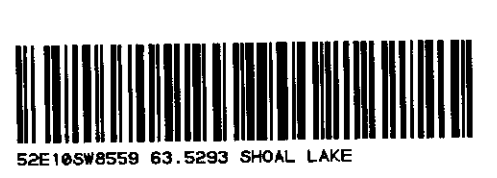
CEDAR ISLAND

LEGEND

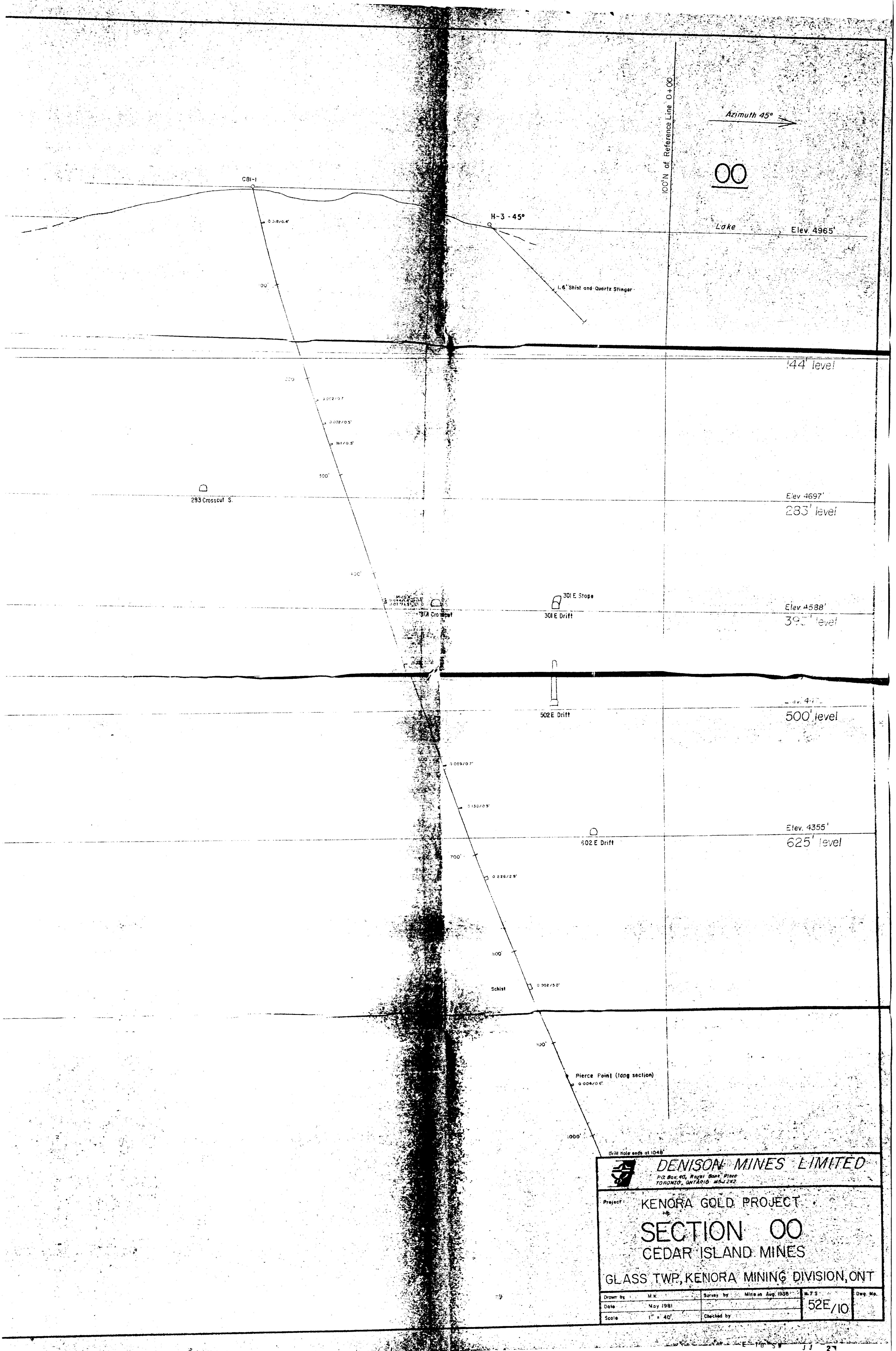
- QUARTZ VEIN
- SULPHIDE ZONE
- QUARTZ VEIN WITH SULPHIDE
- HARDENED CLAYEY DIKES
- QUARTZ VEIN WITH SULPHIDE
- HARDENED IN PLACES TO AMPHIBOLITE
- SHEAR ZONE
- TRENCH



<b>DENISON MINES LIMITED</b> <small>40 Box 40, Essey Brook Place TORONTO, ONTARIO M6J 1K2</small>			
Project: <b>KENORA GOLD PROJECT</b>			
<b>SURFACE GEOLOGY</b> <b>CEDAR ISLAND MINES</b>			
<b>GLASS TWP, KENORA MINING DIVISION,</b>			
Drawn by	D.R.	Survey by	J. Thomson
Date	April 1981	Date	Oct 1984
Scale	1" = 40'	Checked by	
			N.T.S. 52E/10



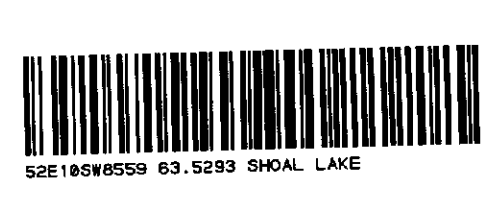




**DENISON MINES LIMITED**  
 P.O. Box 40, Royal Bank Plaza  
 TORONTO, ONTARIO M5J 2X2

Project: KENORA GOLD PROJECT  
**SECTION 00**  
 CEDAR ISLAND MINES  
 GLASS TWP, KENORA MINING DIVISION, ONT

Drawn by: M.K.	Survey by: Mine in Aug. 1936	M.F.S.	Doc. No.
Date: May 1981			52E/10
Scale: 1" = 40'	Checked by:		



100' N. of Reference Line 0+00

Azimuth 45°  
**50W**

No. 1 Shaft

H2-45°  
(15' E)

Lake Elev. 4965'

No. 1 Winze  
(10' E)

Quartz

Elev. 4960'  
144' level

283 Crosscut S.

283M Crosscut

Elev. 4697'  
283' level

501 Slope

501A Drift S. 501A Drift W.

501 Raise  
(15' E Section)

Elev. 4560'  
37' level

501W Drift  
(15' E Section)

501 Drift

Elev. 4470'  
500' level

501 Drift  
(3' E Section)

501M Crosscut

502E Drift

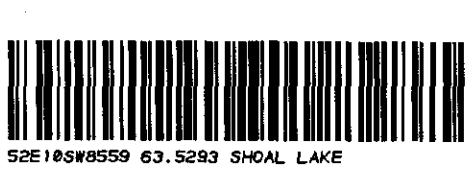
Elev. 4355'  
625' level

**DENISON MINES LIMITED**  
 P.O. Box 40, Royal 1028 Place  
 TORONTO, ONTARIO M5J 2K2

Project: KENORA GOLD PROJECT  
**SECTION 50W**  
 CEDAR ISLAND MINES  
 GLASS TWP, KENORA MINING DIVISION, ONT

Drawn by: M.K.	Survey by: Mine in Aug. 1958	N.T.S.	Dep. No.
Date: May 1961	Checked by:	52E/10	
Scale: 1" = 40'			

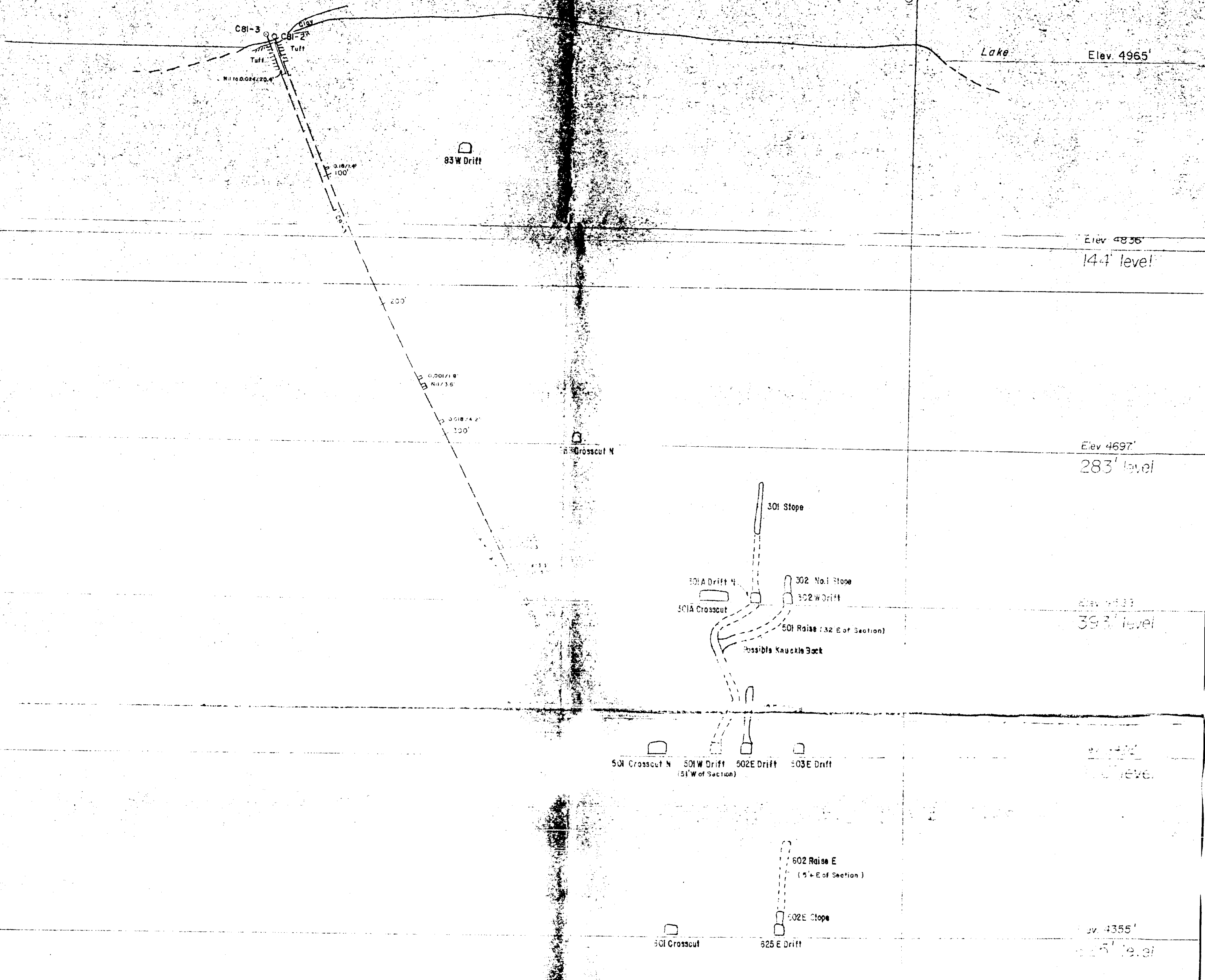
63.5293





COIN of Reference Line 0+00

Azimuth 45°  
**100W**



**DENISON MINES LIMITED**  
 20 St. George Street, Toronto, Ontario M5J 2Z2

Project: KENORA GOLD PROJECT  
**SECTION 100W**  
 CEDAR ISLAND MINES  
 GLASS TWP, KENORA MINING DIVISION, ONT

Drawn by: M.K.	Surveyed by: Mine in Aug. 1986	N.T.S.	Dwg. No.
Date: May 1981		52E/10	
Scale: 1" = 40'	Checked by:		

E 10 SW JJ 21





Azimuth 45°  
150W

100' N of Reference Line 0+00

Collar 81-3 on 100W Section  
CBI-3 CBI-2

Lake Elev 4965'

CBI-3

144 E Drift

Elev 4836'  
144 level

200

Fault

0.00178' / 0.00172

Elev 4827'  
143 level

CBI-2

0.00173' / 0.00160

301 Slope N  
(E-W Section)  
301A Drift-S, 301A Drift-N, 302W Drift

Elev 4818'  
level

50' Raise E  
(10-20' E of Section)

502 W Slope  
50W Drift 502W Drift 503W Drift

Elev 4472'  
140 level

602 W Slope

602 W Drift

Elev 4355'  
level

Pierce Point (long section)

00 Reference Line

possible vein shoe 0.014/2.9

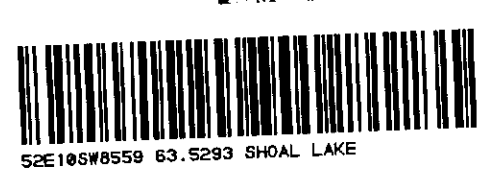
possible vein shoe 0.002/11' 0.009/10.2

1000

**DENISON MINES LIMITED**  
P.O. Box 40, Royal Bank Plaza  
TORONTO, ONTARIO M5S 1K2

Project: KENORA GOLD PROJECT  
**SECTION 150W**  
CEDAR ISLAND MINES  
GLASS TWP, KENORA MINING DIVISION, ONT

Drawn by: M.K.	Survey by: M.K.	Map in Aug. 1956	N 15	Dwg. No.
Date: May 1981	Checked by:		52E/10	
Scale: 1" = 40'				





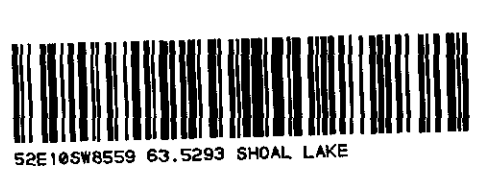
**DENISON MINES LIMITED**  
 P.O. Box 40, Royal Bank Place  
 TORONTO, ONTARIO M3J 2K2

Project: KENORA GOLD PROJECT  
**SECTION 200W**  
 CEDAR ISLAND MINES  
 GLASS TWP., KENORA MINING DIVISION, ONT.

Drawn by: M.K.	Survey by: Mine R. Aug. 1936	Scale: 1" = 40'	Drawn by: 52E/10
Date: May 1981	Checked by:		

E 10 SW JJ 21

63.5293









100' N of Reference Line - 0+00

Azimuth 45°  
**300W**

Lake Elev. 4965'

144 No. 1 Slope  
144 W Drift

Elev. 4836'  
144' level

253 W Drift No. 1 283 Crosscut 263 W Drift No. 2

Elev. 4797'  
144' level

302 Raise  
(27' E of Section)

302 W Drift

Elev. 4750'  
144' level

503 Raise  
(28' E of Section)

502 W Slope

502 W Drift

503 W Slope and Drift

501 Crosscut S. 502 W Drift 503 W Drift

Elev. 4726'  
144' level

502 W Slope

502 W Drift

Elev. 4687'  
144' level

**DENISON MINES LIMITED**  
 P.O. Box 40, Royal Bank Place  
 TORONTO, ONTARIO M5J 2K2

Project: **KENORA GOLD PROJECT**  
**SECTION 300W**  
 CEDAR ISLAND MINES  
 GLASS TWP, KENORA MINING DIVISION, ONT

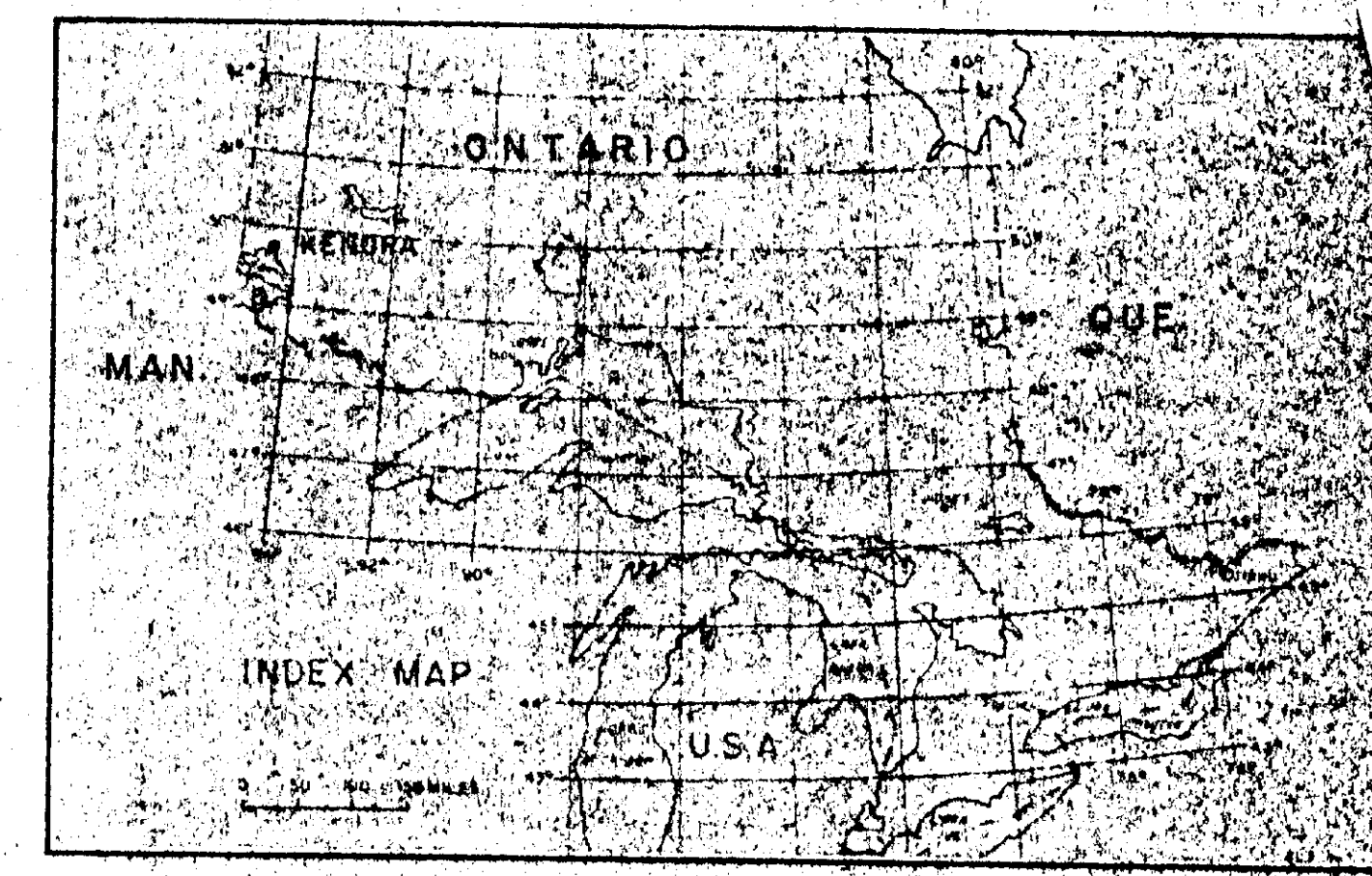
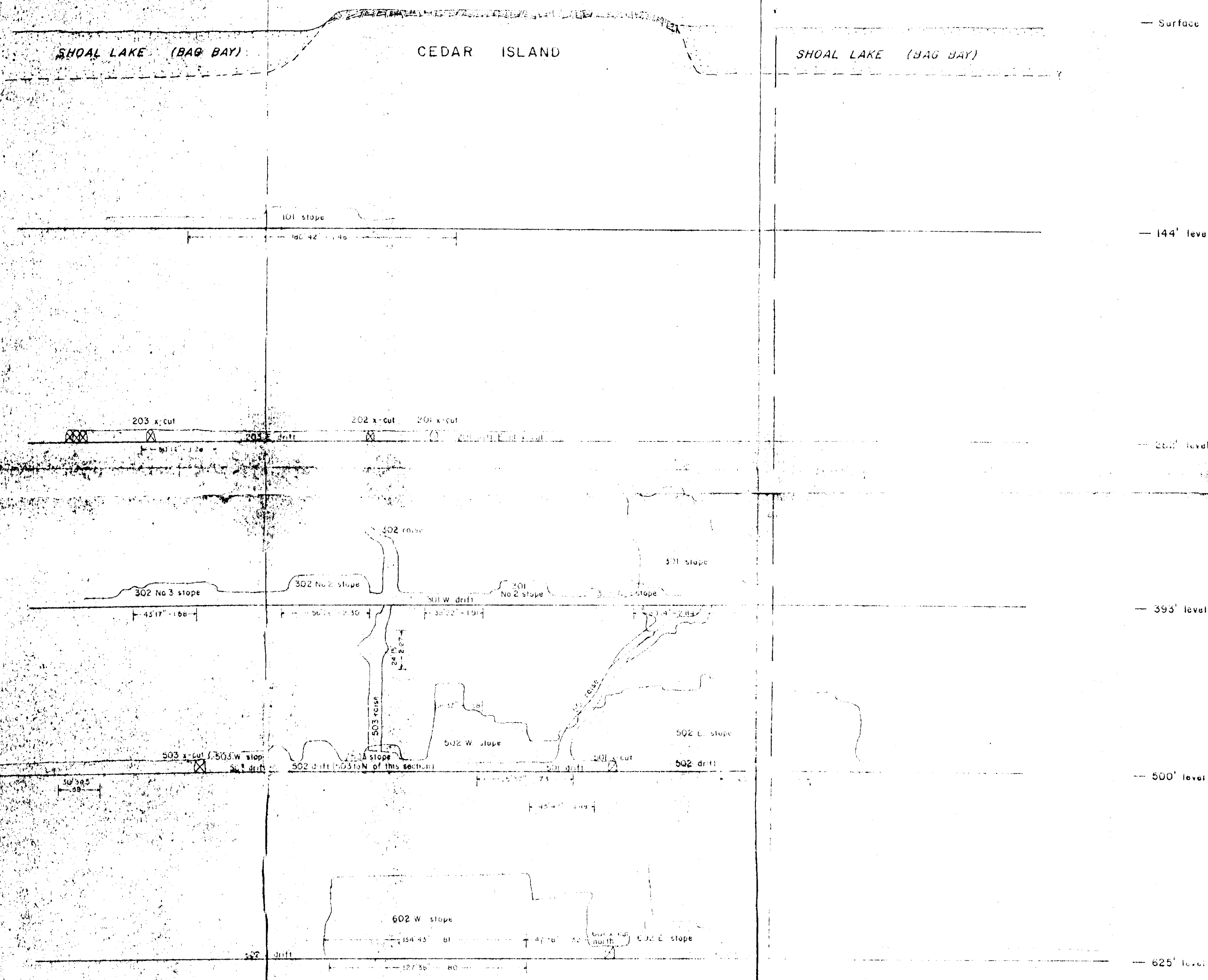
Drawn By: M.F.	Survey by: Mine (n. Aug. 1936)	N.T.S.	Dwg No.
Date: May 1981		52E/10	
Scale: 1" = 40'	Checked by:		

E 10 SW JJ 27



Co-ordinate. 9400N + 3800 E

100' (to west)



**DENISON MINES LIMITED**  
 P.O. Box 40, Royal Bank Plaza  
 TORONTO, ONTARIO M5A 2E8

Project: **KENORA GOLD PROJECT  
 LONG SECTION THROUGH  
 UNDERGROUND WORKINGS  
 CEDAR ISLAND MINES  
 GLASS TWP, KENORA MINING DIVISION, ONT.**

Drawn by: D.R.	Survey by: Kenora Prosp. & Miners Ltd.	N.T.S.	Dep. No.
Date: April 1981	Date: May 1936	52E/10	2A
Scale: 1" = 40'	Checked by: C.L.		





Az 58°

Datum - Steph. Coll. 19

M81-1 - 72°

Casing

120 N Drift

180 No 1 Stope  
180 N Drift

Diorite

Andesite

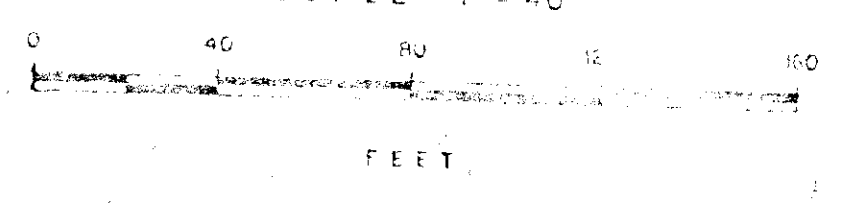
Mikado 7

120' Level

180' Level

240' Level

SCALE 1" = 40'

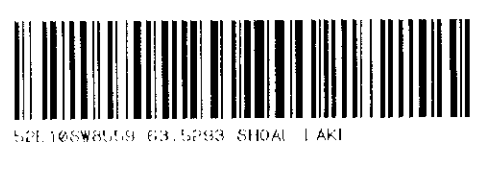


**DENISON MINES LIMITED**  
 P.O. Box 40, Royal Bank Place  
 TORONTO, ONTARIO M5V 2P8

Project: **KENORA GOLD PROJECT**  
**SECTION 100N**  
**MIKADO MINES**

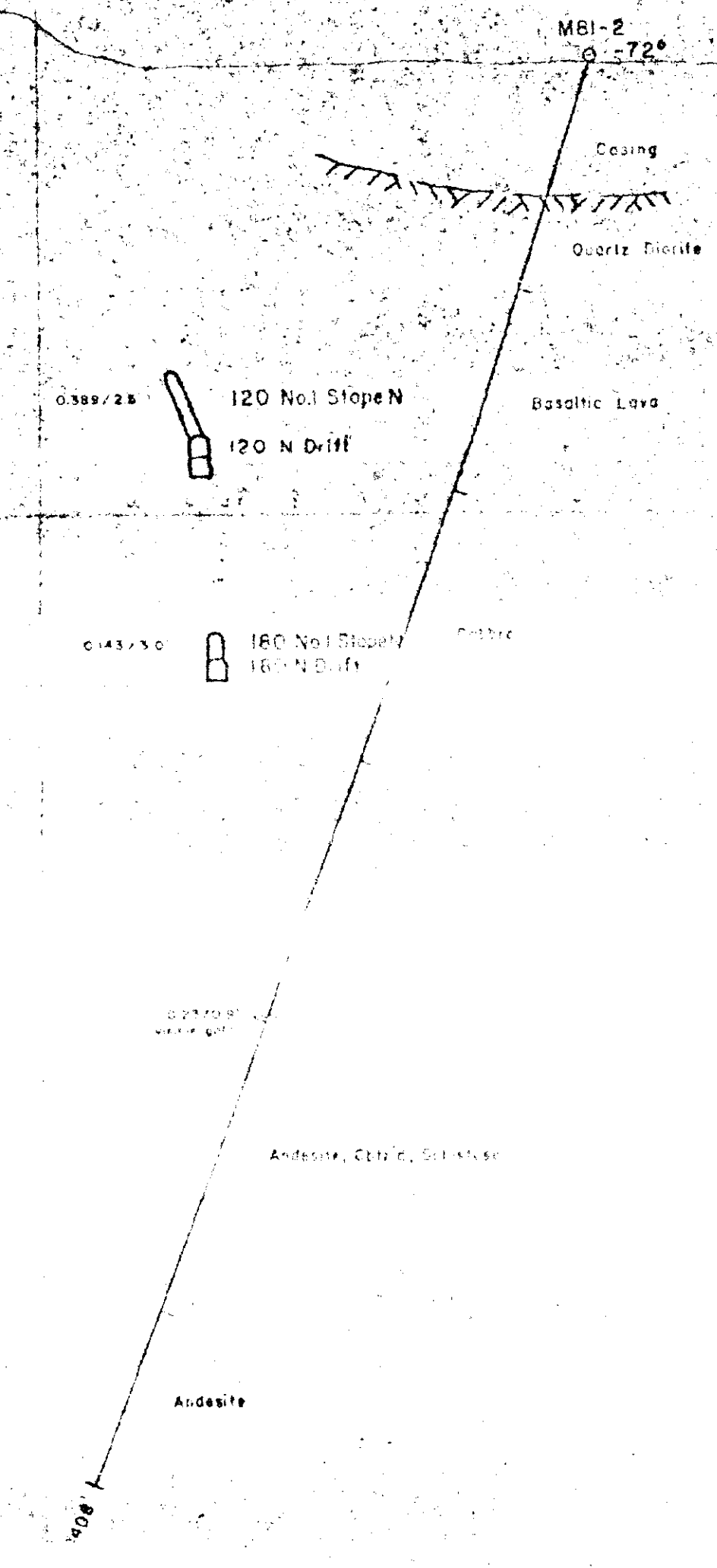
**GLASS TWP, KENORA MINING DIVISION, ONT.**

Drawn by: W.C.	Survey by: C.C.	N.T.S.	Comp. No.
Date: November 1981	Date: Spring 1981	52E/10	3.
Scale: 1" = 40'	Checked by:		



Az. 58°

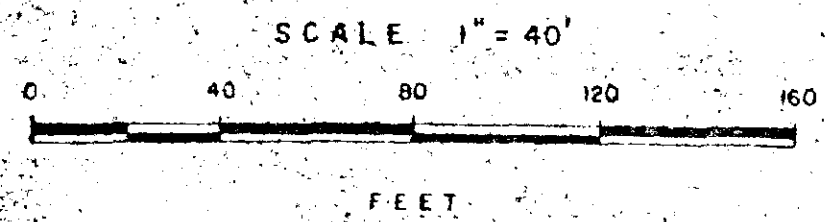
Datum: Shaft Center



120 Level

160 Level

Reference Line and Shaft 50



63.5293



**DENISON MINES LIMITED**

P.O. Box 40, Rays Bend Plaza  
TORONTO, ONTARIO M2J 1K2

Project: **KENORA GOLD PROJECT**  
**SECTION 50N**  
**MIKADO MINES**  
 GLASS TWP, KENORA MINING DIVISION, ONT.

Drawn by: M.C.	Survey by: J.R.C.	DATE: 5/19/95	Draw No: 3
Date: November 1995	Checked by: J.R.C.	Scale: 1" = 40'	52E/10



52E 10 5293 63.5293 SHAL LAKE



Az. 58°

Datum - Shaft 'Cdilar

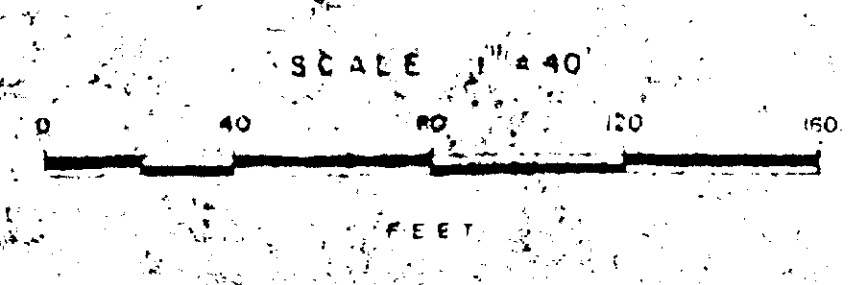
M81-3 - 55°  
M81-7 (25' North of Section) - 55°

120' S Drift

180' S Drift

240' S Drift  
240' S Drift

Reference Line and Shaft 'C'

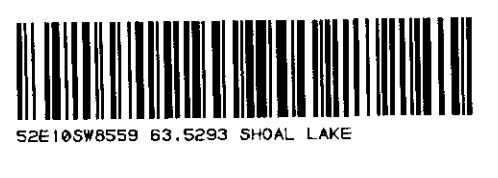


**DENISON MINES LIMITED**  
 P.O. Box 40, Royal Bank Place  
 TORONTO, ONTARIO, M5J 2K2

Project: **KENORA GOLD PROJECT**  
**SECTION 100S**  
**MIKADO MINES**

**GLASSTWR, KENORA MINING DIVISION**

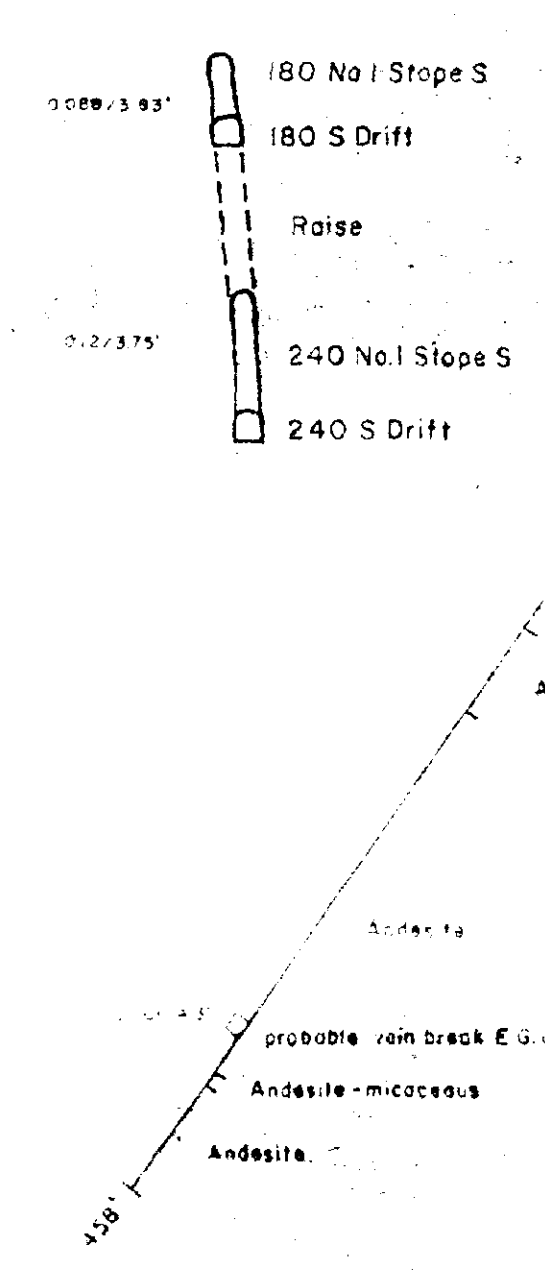
Drawn by: M.C.	Surveyed by: C.B.	N.T.S.
Date: November 1987	Date: Spring 1981	
Scale: 1" = 40'	Checked by:	52E/10



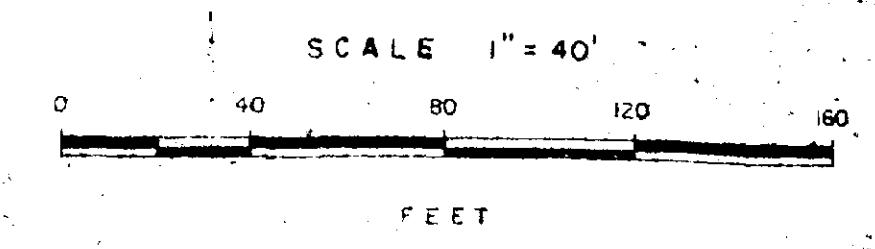


Az 58°

Datum - Shaft Collar



Reference to map 150S



**DENISON MINES LIMITED**  
115 FULTON STREET, SUITE 1000, TORONTO, ONT. M5E 1B3

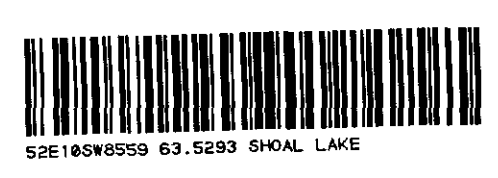
Project: **KENORA GOLD PROJECT**  
**SECTION 150S**  
**MIKADO MINES**

**GLASS TWP, KENORA MINING DIVISION, ONT.**

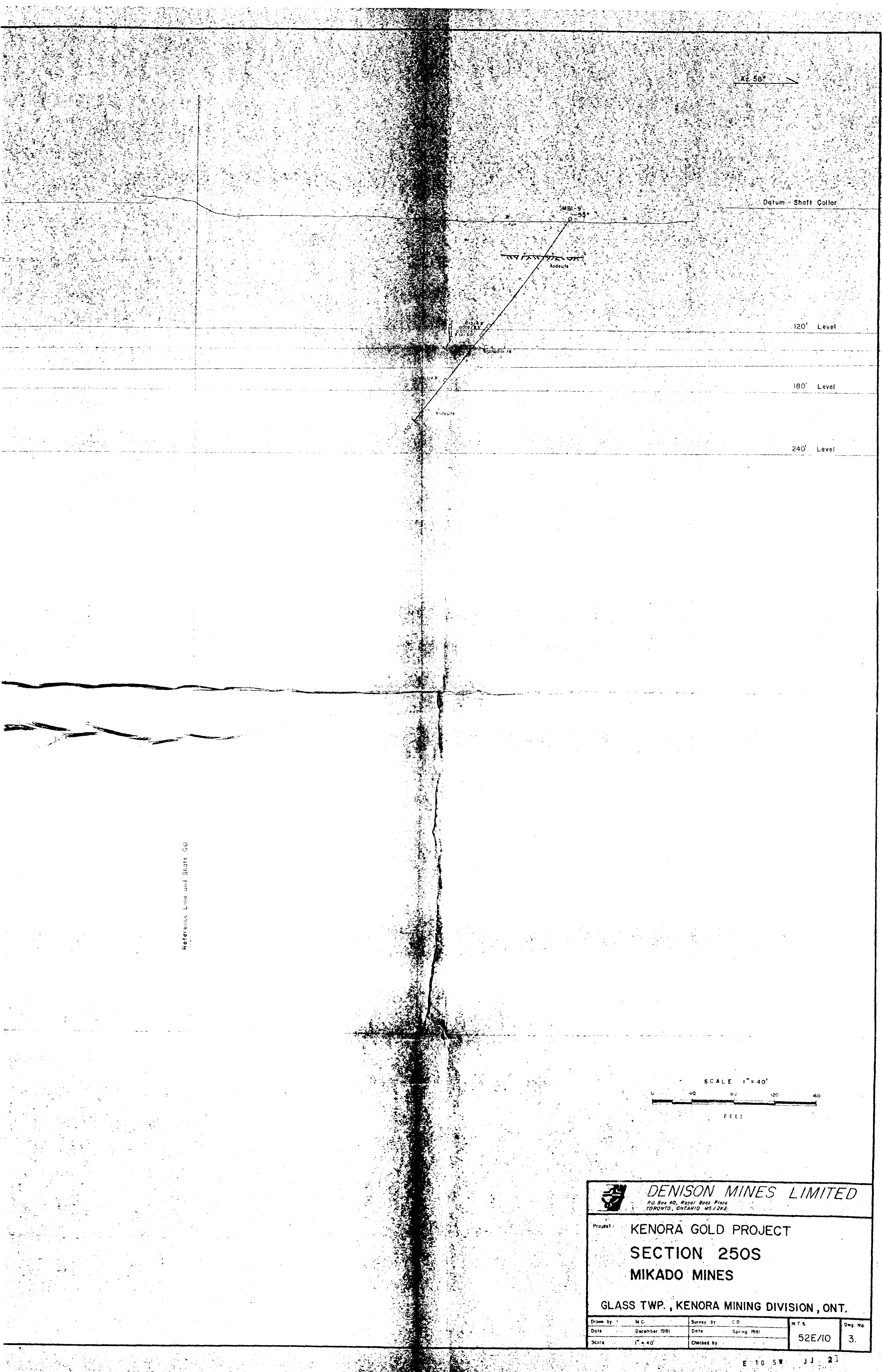
Drawn by	M	Survey by	M	Sheet No.	52E/10
Date	November 1998	Date	Spring 1981	Drawn by	3
Scale	1" = 40'	Checked by			

E 10 SW 22

63. 5293







Az 58°

Datum - Shaft Collar

MBI-9  
0-55°

Andesite

120' Level

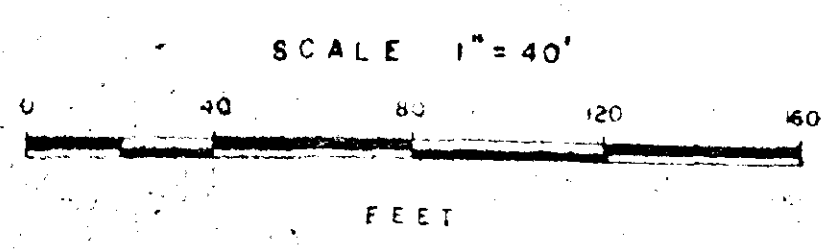
180' Level


240' Level

Sphalerite

Andesite

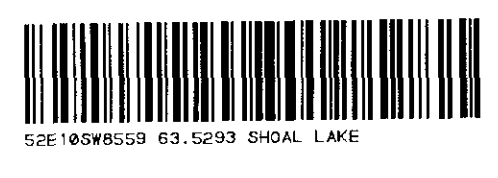
Reference Line and Shaft 00



 <b>DENISON MINES LIMITED</b> <small>P.O. Box 40, Royal Bank Plaza          TORONTO, ONTARIO M5J 2K2</small>			
Project: <b>KENORA GOLD PROJECT</b> <b>SECTION 250S</b> <b>MIKADO MINES</b>			
<b>GLASS TWP., KENORA MINING DIVISION, ONT.</b>			
Drawn by	M.C.	Survey by	C.D.
Date	December 1981	Date	Spring 1981
Scale	1" = 40'	Checked by	
		N.T.S.	Dwg. No.
		52E/10	3.

E 10 SW JJ 2

63.5293





Reference Map 100 E of sheet

A1 58°

Elevation - 00

M81-II - 554

Overburden

120' Level

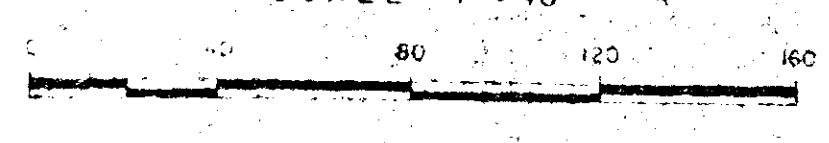
Granodiorite

140' Level

Trisite  
Serpentine  
Basalt  
Apfite

160' Level

SCALE 1" = 40'



FEET

**DENISON MINES LIMITED**  
 P.O. Box 41, Ross, Bank Plaza  
 TORONTO, ONTARIO M3J2R2

Project: **KENORA GOLD PROJECT**

**SECTION 3+50S**  
**MIKADO MINES**

**GLASS TWP., KENORA MINING DIVISION, ONT.**

Drawn by	M.C.	Survey by	C.O.	M.T.S.	DWG. NO.
Date	DECEMBER 1981	Date	DECEMBER 1981	52E/10	3
Scale	1" = 40'	Checked by			

E 10 SW JJ-2

63.5293





Reference line (100' E. of station)

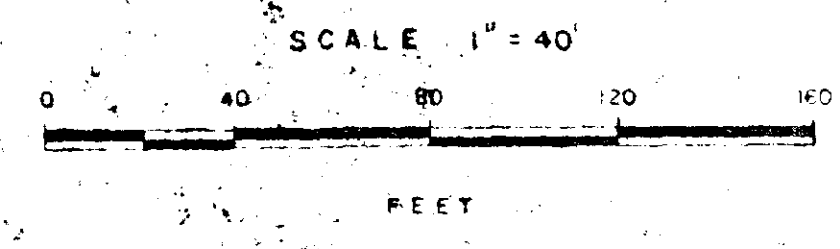
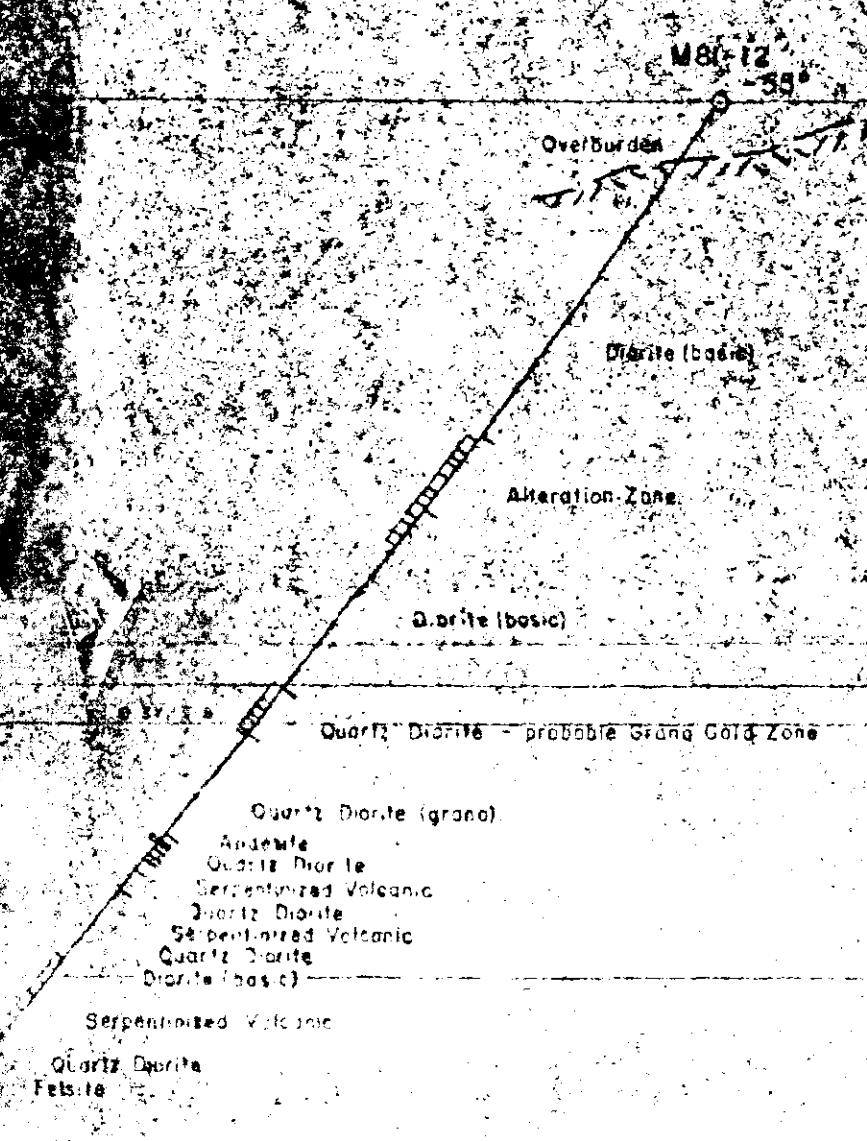
Az: 58°

Elevation 00

120' Level

180' Level

240' Level



**DENISON MINES LIMITED**  
 P.O. Box 40, Royal Bank Plaza  
 TORONTO, ONTARIO M5J 2K2

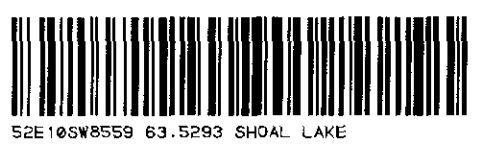
Project: **KENORA GOLD PROJECT**

**SECTION 4 + 50S**  
**MIKADO MINES**

**GLASS TWP., KENORA MINING DIVISION, ONT.**

Drawn by: M.C.	Survey by: C.D.	N.T.S.	Dwg. No.
Date: DECEMBER 1981	Date: DECEMBER 1981	52E/10	3.0
Scale: 1" = 40'	Checked by:		

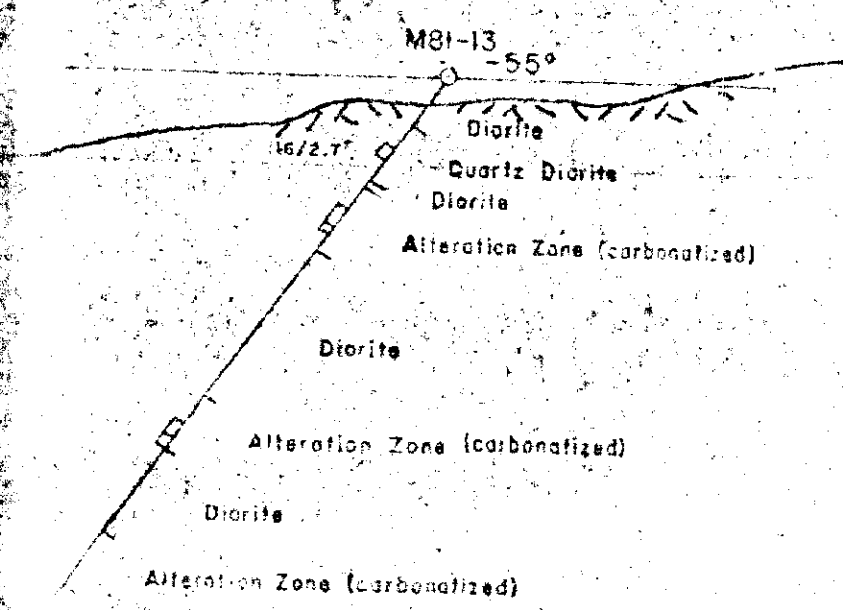
10 5 11 JJ 21





Reference line 100' E of shaft

Az 58°



Elevation 00

100' Level

150' Level

SCALE 1" = 40'



FEET

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 P.O. Box 40, Royal Bank Plaza  
 THORNHILL, ONTARIO M5J 2Z4

Project: **KENORA GOLD PROJECT**

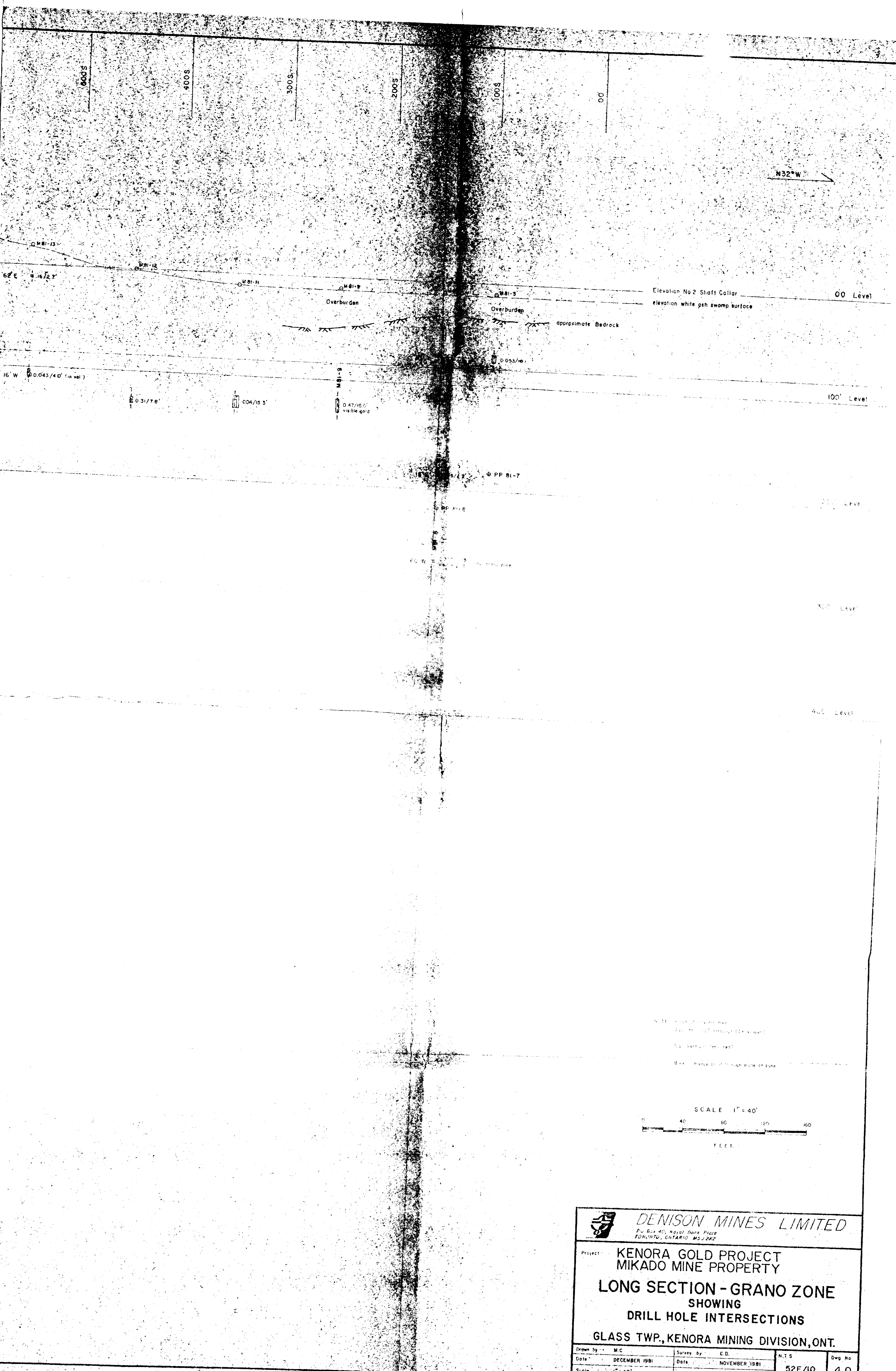
**SECTION 5+50S**  
**MIKADO MINES**

**GLASS TWP., KENORA MINING DIVISION, ONT.**

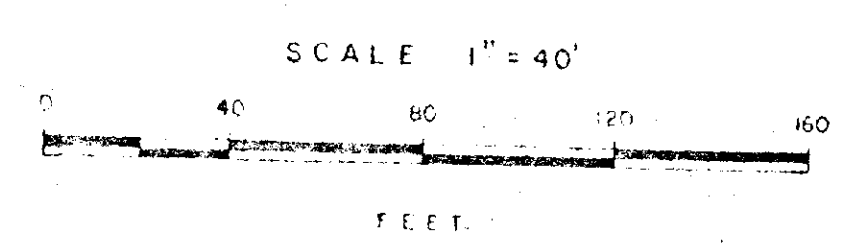
Drawn by: M.C.	Survey by: C.D.	N.T.S.	Draw No:
Date: DECEMBER 1981	Date: DECEMBER 1981	52E/10	3.0
Scale: 1" = 40'	Checked by:		

10 57 13 21  
10 58 13 2





NOTE: This plan view map  
 shows the location of the  
 drill holes in the zone  
 and the approximate location of the  
 zone.



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 P.O. Box 40, Hazelton Place  
 TORONTO, ONTARIO M5J 2R2

Project: **KENORA GOLD PROJECT  
 MIKADO MINE PROPERTY**

**LONG SECTION - GRANO ZONE  
 SHOWING  
 DRILL HOLE INTERSECTIONS**

**GLASS TWP., KENORA MINING DIVISION, ONT.**

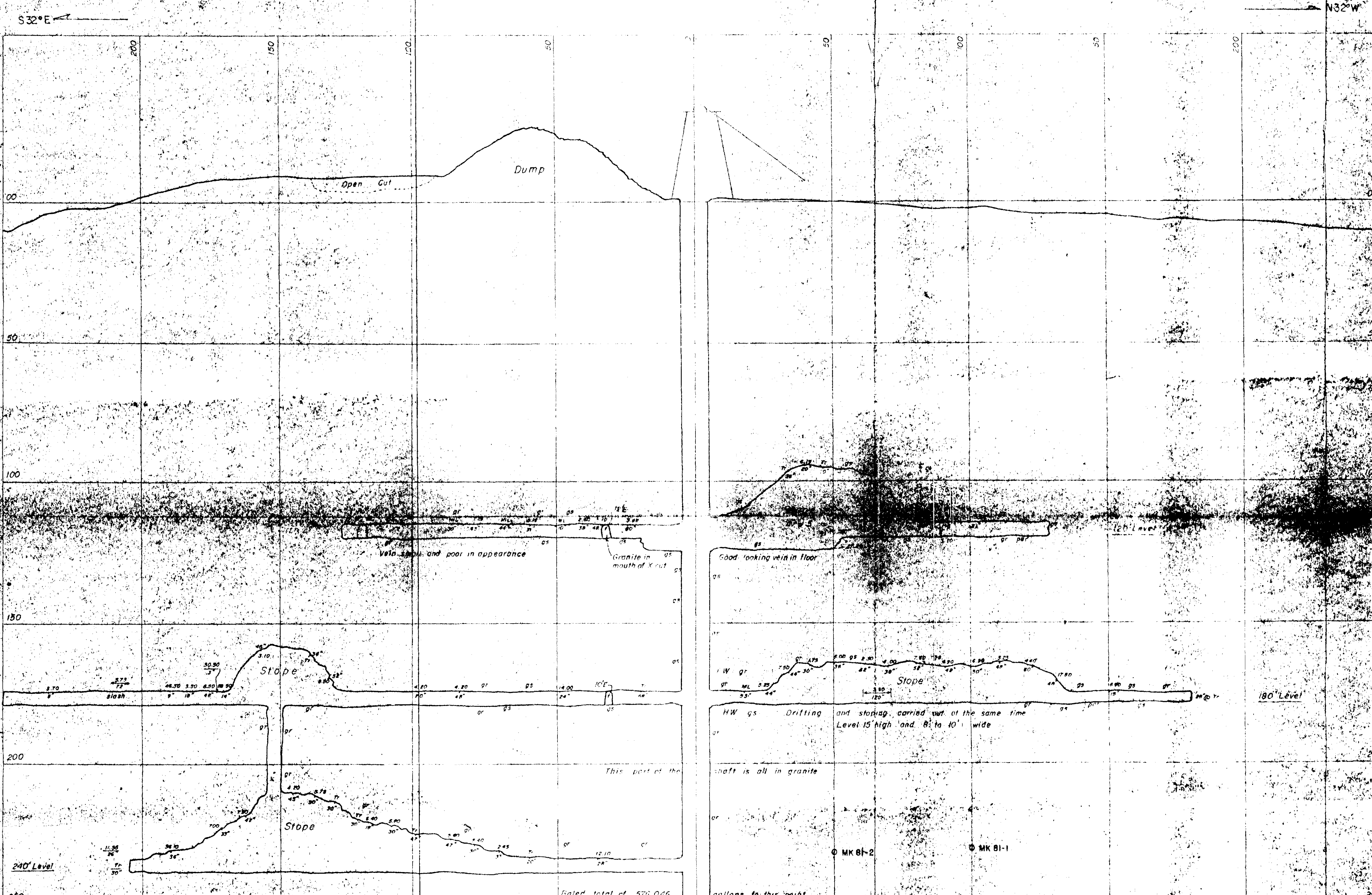
Drawn by: M.C.	Survey by: C.D.	N.T.S.	Dwg. No.
Date: DECEMBER 1981	Date: NOVEMBER 1981	52E/10	4.0
Scale: 1" = 40'	Checked by:		











**LEGEND**

- gs Porphyry
- gr Granite (probably some grey granodiorite)
- gs Greenstone - Keweenaw Type
- 5.50 Value
- 48" Width
- MK 81-1 Pierce point of 1981 drill holes on the vein projected to the long section

SECTION FACES WEST - STRIKE OF VEIN IS N70°W DIP = 70° East (Values at 35<sup>00</sup> per ounce gold)

**DENISON MINES LIMITED**  
INCORPORATED IN CANADA  
 TORONTO, ONTARIO M5H 1K2

**KENORA PROJECT**

**MIKADO MINE**  
**LONG SECTION OF NO. 2 VEIN**  
**THROUGH SHAFT NO. 2**  
**KENORA MINING DIVISION, ONTARIO**

Drawn by: J. WILLIAMS Feb. 1988 Scale: 1" = 10' N.T.S. Dwg. No.  
 Checked by: J. FENNEL Oct. 1988 Checked by: C.M. 52E/10 3B  
 Traced by: M.K. March 1981