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REPORT ON SAKAMI LAKE

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REPORT ON SAKAMI LAKE

FOR

THE INTERNATIONAL NICKEL CO. OF CANADA LTD.

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INTRODUCTION

During regional geophysical work in 1972, the International Nickel Co. of Canada Ltd. discovered an area of anomalous radioactivity which, on ground examination, was found to contain uranium-bearing, quartz-pebble conglomerates.

Geological mapping and interpretation from magnetic data, coupled with data from a series of diamond drill holes, shows that a quartz-rich sedimentary sequence, with a strike length in excess of 5 miles, carries discontinuous conglomerates that locally have high contents of uranium.

Outcrop in the area is sparse so that the distribution of the conglomerate units is not well known. Even the structural character of the area of sediment and its stratigraphic relationship to contiguous rocks, ultramafic "lavas", greywacke, iron formation and greenstones of typically Archean aspect, is a matter of conjecture.

This brief report comments on the likely age of the sediments of interest, their stratigraphic and structural relationship to the adjacent "Archean rocks" and on the desirability of further work relative to their economic value.

THE URANIFEROUS SEDIMENTS AND THEIR DISTRIBUTION

The conglomerate units are thin, discontinuous zones which in core have rather diffuse edges but which in outcrop appear, at least in some cases, to have well defined edges. This definition may be due, in part, to a relatively high pyrite content in the conglomerates. The pebbles are not well defined but, in view of the stretching (elongation of about 5 to 1 reported by INCo lab) and the high degree of recrystallization attendant on regional metamorphism, this lack of definition is not surprising.

The quartzites, within which the conglomerates occur, vary from white, fine and even-grained, pure quartzites with varying amounts of sericite, to grey, dirty quartzites in which much biotite is developed. Locally the quartzite contains what may be pebbles and it has been logged in the core as pebbly quartzite.

The grade of regional metamorphism is of the amphibolite facies. Recrystallization of quartz is extreme and "pebbles" viewed in thin section are recognizable only because of what appears to be biotite selvedges around them.

In core the rocks all appear to be physically distorted to a high degree. In view of their high quartz content, it would not be surprising if they acted as very brittle members during regional folding and faulting and fracturing of minor scale, or displacement, may be more extreme than can be recognized in outcrop.

Part of the quartzite sequence is very clean, being largely quartz of fine, even grain. It is suggested by Barnes of

Robertson & Associates that these clean sediments must be of second generation derived from earlier sediments. It would appear, if they are not of this origin, that some unusual washing and cleaning phenomenon must have removed all other material except minor amounts of clay prior to diagenesis.

The conglomerates are thin, as noted above, and of relatively small apparent pebble size. No pebbles were seen that appeared to have an original diameter much in excess of one inch. They have relatively more pyrite than the enclosing quartzites and locally, in thin seams, have in excess of 10% pyrite. Higher uranium values are normally found with pyrite although pyrite is sometimes without associated radioactivity. This phenomenon is usual in Proterozoic quartz-pebble conglomerates.

Locally, in zone 2 for example, conglomeratic units can be traced for hundreds of feet even though individual conglomerate beds cannot be so traced. This too is usual in Proterozoic conglomerates of this type.

Elsewhere, on outcrop, the conglomerate beds are shown as pinching out rapidly and appear to decrease in number from 5 or 6 to 1 or 2 within 500 feet. This may be so but it is conceivable that the intense physical deformation makes it extremely difficult to recognize torn and stretched conglomerate beds such that they cannot be mapped.

All the sediments which carry radioactive zones are unusually quartz-rich. They are distributed over an east-west strike

length of about five miles on Sakami Lake and similar sediments, although not carrying radioactive minerals, have been found some miles to the west. These sediments thus had regional distribution prior to the diastrophic event which left only their roots, with associated interbedded greywackes and conglomerates, in elongate "keels" or synclines in the sea of granite and gneiss.

It is generally believed that the major break between the Archean and Proterozoic reflects a major change in the kind of exposed crust, both in its thickness and the way it reacted structurally, and in the degree of its petrologic development such that quartz-rich sediments could only form in abundance when sufficient granite and gneiss had evolved.

In areas of the earth where an Archean-Proterozoic boundary can be well defined, it is generally reflected by quartz-rich sediments lying on interbedded and folded greywacke, greenstone, and associated, magnetite-bearing iron formation.

On this boundary, in at least 5 major localities on 4 continents, there also occur quartz-pebble conglomerates carrying anomalous amounts of uranium. One of these is the Witwatersrand and one is Elliot Lake.

On the basis of the similarities between the five areas mentioned and the occurrence at Sakami Lake it is believed that Sakami Lake is a newly discovered expression of the Archean-Proterozoic boundary, albeit a highly folded one, and that the conglomerates carrying uranium have close affinities to those

carrying uranium at Elliot Lake.

MINERALIZATION

Various sulphide minerals can be identified in the core from Sakami Lake, including pyrite, pyrrhotite, chalcopyrite and sphalerite. While the pyrite appears intimately related to the conglomerate units, the other minerals, which occur in large blebs in fractures of relatively late aspect, are probably not so restricted.

The laboratories of the company have identified "pitchblende", a thorium silicate (either thorite or allanite), ilmenite, pyrite, pyrrhotite, chalcopyrite, galena, pentlandite, marcasite, sphalerite and gersdorffite.

The material identified as pitchblende by X-ray fluorescence has been shown by microprobe to carry about 10% thorium. This strongly suggests that the mineral is uraninite, the ordered form of UO_2, and that the material is likely, in this environment, to be detrital. The material will likely be found to carry significant amounts of rare earths.

The thorium silicate, which, like uraninite, is formed only under "magmatic" conditions, is also likely to be detrital and may, at this locality, take the place of the ubiquitous monazite which is the usual granitic thorianiferous accessory mineral reporting to these rocks as a detrital "heavy mineral".

Pyrrhotite, chalcopyrite, pentlandite, marcasite, sphalerite and gersdorffite are probably related to the ultrabasic rocks, which will be later discussed, and seem unlikely to be part of

the detrital suite.

OTHER ROCKS

On the north side of the quartzites of interest, between zone 2 and zone 3, lies a belt of ultramafic rocks described as lavas because of the large, skeletal olivine crystals found in them. Similar rocks were found near the south end of drill hole 49887 where they were inferred by magnetic expression. These rocks will be discussed in a later section. North of the ultrabasic rock, and bounding the quartzites on their north side elsewhere, lies a contorted sequence of greenstones, greywackes and iron formation, a group of rocks that seem to be typically Archean on the basis of the descriptions heard by the writer.

These rocks also occur to the south of the thin "keel" of quartzite and appear to be similar in character to the linear zones of greenstone and sediment mapped elsewhere through the broader region.

The attached map exaggerates the apparent geological relationships seen on company maps to illustrate what appears to the writer to be an unconformity between the quartzites and the Archean.

Dike-like bodies, mapped as diabase, cut the quartzite and lie in more or less formless masses in the Archean.

The broader region is a sea of gneiss and granite in which the remnants of the Archean lie. Neither the age nor distribution of the ultrabasic rocks or the diabase are known to the

writer. They may be older than the granites, however, certain data suggest that they are younger and further comment on the ultrabasic rock is given below.

THE ULTRABASIC ROCKS

The ultrabasic rocks are known from their magnetic expression and from intersections in drill core. The major unit of this kind lies between the quartzite and the "Archean" to the north. Because of a sort of "spinifex" texture developed in this rock, in which a fine-grained matrix includes skeletal bladed olivine crystals, the material has been thought to be an extrusive rock or flow of quartzite age. The presence of a rock of similar character in drill hole 49887 suggested that the material is either of varying times of evolution, contemporaneous with different phases of the quartzite, or that the quartzite is synclinal with the south limb reflected by the ultrabasic in hole 49887.

Other hypotheses are possible and include:

a) The ultrabasic is a flow of Archean age,

a^1) The southern sub-crop is faulted into position,

a^2) The southern sub-crop is the south limb of a syncline.

b) The ultrabasic is a post-quartzite intrusive,

b^1) The southern exposure is faulted into place,

b^2) The southern exposure is intrusive at the same time as the northern one.

These rocks were not examined in core or in thin section with the care which, in retrospect, would seem to have been desirable. The character of the contacts might have been informative al-

though the intense metamorphism, particularly the physical breaking if it were post-ultrabasic, might well have destroyed phenomena of significance. The petrography of the ultrabasic rocks, too, might be instructive. Are they less intensely metamorphosed than the sediments?

In spite of lack of data, it is the writer's impression that the ultrabasics may be relatively late in the sequence. There is apparently no sign of debris, olivine, for example, in the sediments which might have been derived from the ultrabasic if it were "old". Sulphides, such as pentlandite, identified in polished section probably come from the larger pyrrhotite blebs visually examined in core which have all of the aspects of late introduction. While it is true that some of these sulphides are more mobile than pyrite, the writer finds it difficult to accept that blebs, as large as those seen, are evolved from re-working of detrital material or that they are so actively moved during metamorphism.

STRATIGRAPHIC SEQUENCE

It is implicit in what has been written that the writer believes the quartzites to be younger than the iron formation-bearing sequence, that an unconformity exists between them along which, in part, an ultrabasic body has been intruded, and that tops in the sediments face south, at least in the areas in which drill holes are collared.

Top determinations in the Archean, which may have been deformed prior to the laying down of the Proterozoic, will be found to be meaningless in relation to tops in the quartzites.

ECONOMIC WORTH

The conglomerates elsewhere which are presently considered economic or sub-economic are all similar, in part, and all have differences:

They are all of large areal extent.

They are all robust and well packed near the paleoslope but decrease in robustness and packing away from the paleoslope. (In South Africa, where large numbers of unconformities occur within the stratigraphic succession, the conglomerates are milled to thin layers (1 - 4 inches) containing pea-sized fragments and very high concentrations of heavy minerals).

They all have sub-economic fringes in which mineralization in the conglomerate is sparse and in which the proportion of conglomerate beds is not sufficient to permit mining.

They vary in mineralogy and in Th/U ratio. In all instances, however, the chief thorium-bearing mineral seems unquestionably detrital and the uranium minerals seem likely so.

It appears that these conglomerates form only off major drainage. They are normally, therefore, of considerable size and weak conglomerate units normally indicate the near presence of stronger units. This fact suggests that exploration for economic bodies does not initially require closely-spaced holes. Holes of spacing of 1 or 1-1/2 miles are generally adequate. In development, likewise, holes at 500 to 1,000 feet are sufficient for evaluation.

The value or worth of the conglomerates as ore relates, largely, to the concentration of heavy minerals formed in them and the likely future price of uranium. Assessment of conglomerate, then, requires efforts to understand the character of the sedi-

mentary environment and study of the character of the future uranium market.

In connection with the latter subject, it is our opinion that there is now a foreseeable shortage of productive capability which can be based on ore reserves from which uranium can be produced at present day costs. It is therefore our opinion that the price of uranium must rise, probably substantially, in terms of 1972 dollars.

FUTURE PROGRAM

Work done to date has demonstrated the presence of basal Proterozoic quartz-pebble conglomerates similar, in many ways, to those which carry uranium ore bodies elsewhere.

As these bodies form only off major drainage and as, elsewhere, they are part of widespread sedimentary units, one can anticipate that the quartzites were, prior to folding, of widespread distribution.

Should the source from which the sediment came be uranium-bearing, and should the process of heavy mineral collection be active, uranium ore reserves could form in the conglomerates. Mineralization in some of the drill cores is at the same level as that encountered in areas of ore elsewhere, for example:

Hole	Intersection	Including
49882	1.26 lbs/51 feet	2.9 lbs/9';5 lbs/1.6'
55303	1.64 lbs/10 feet	2.3 lbs/6'

It is the opinion of the writer that further examination of the area of the present find is warranted and that examination

of the broader region is worthwhile.

PRESENT FIND

The following work should be considered in the area of the quartzite of Sakami Lake:

1) An evaluation of drill hole intersections to evolve average grade and tonnage over minable widths should be made.

2) A preliminary evaluation of cost per pound of production in such an area should be made.

3) An attempt should be made to follow the quartzite to the east.

4) At least two deep holes should be drilled in zone 2 to evaluate conglomerates at depth and to attempt to provide data on the basis of which a three dimensional view of sedimentation may be based.

5) Further consideration should be given to the structure of the quartzite zone. Is it an infold? Is it a fault block?

REGIONAL WORK

Some attempt should be made to find other areas in which quartzite is preserved. While, initially, search of such a large area appears quite difficult, it may be that early work will provide data to help limit the area.

Concepts that may bear on the search are as follows:

1) Favorable Proterozoic sediments would exist only to seaward of the fall line in basal Proterozoic time. If one could evolve the trend of the fall line, one could restrict one's search to the seaward side of it.

2) There is some evidence to suggest that major drainage persisted through long periods of time in the Proterozoic. Drainage trends, if one can establish them, may be useful.

In this connection it has been pointed out to the staff that younger Proterozoic rocks seem to occupy linear trends in the region of interest. Thick sections of basal Proterozoic material, and their infolded welts, may occupy the same or similar trends.

BASAL TILL AND BEDROCK SAMPLING

SAKAMI QUEBEC PROJECT 33F2W

on behalf of

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BASAL TILL AND BEDROCK SAMPLING
SAKAMI QUEBEC PROJECT 33F 2/W

INTRODUCTION

A deep-sampling program of basal till and bedrock was carried out in the Sakami Lake area of Quebec on Canadian Nickel Company's Permit Area Number 548. The purpose was to determine extent and trends of quartzite host rock and, where possible, the amounts of associated sulfides and uraninite. The job was divided into three phases and the results are shown on the three accompanying maps.

Phase 1 was to deep-sample basal till and bedrock in the general area of an outcropping radio_active quartzite-conglomerate, and from the samples to investigate the lithologies, content of sulfides and uranium under the northern bay of Sakami Lake (drill-holes SL 1-10).

Phase 2 was to deep-sample basal till and bedrock along the northeast projected extension of a mineralized outcrop, and, from the samples, outline the extent of the quartzite host rock (drill-holes SL 11-28).

Phase 3 was to deep-sample basal till and bedrock in two areas: (A) to check-out a postulated fold for the quartzite and, (B) to search for evidence of repeated bands of quartzite host rock along a line stretching from the northern bay southward across the broad peninsula.

More specifically the job assigned to Lee Geo-Indicators and covered in this report was: To direct on site a deep-sampling program for basal till and bedrock in the Sakami Lake area. To decide when the favoured environments of basal till and bedrock were reached. To select and retain samples for further preparation

and analysis. To establish presence or absence of host rock for uranium mineralization from an examination of the clasts in the till and chips of bedrock, and from these decide either further drilling on the pre-selected grid, or use of a revised grid designed to maximize the success of exploration. To prepare samples for analyses by laboratory sieving and making of heavy mineral separations, and to make examinations for lithologies on both chip samples and coarse clasts. To submit the mineralized clasts and heavy liquid concentrates to Canadian Nickel Company Limited for analysis of uranium. To produce maps and an interpretive report of the final results of this work.

Authority to do the work was given by C.O. Pritchard, Manager, North American Exploration Canadian Nickel Company Limited, under Contract CN 73-1, dated January 31, 1973. H.A. Lee of Lee Geo-Indicators Limited was on the site at Sakami Lake from February 26th to March 8th. An oral progress report of the work was made to the regional manager exploration, H. Stewart at Copper Cliff on March 9th.

The drilling was done by Bradley Bros. Limited using a dual-system drilling rig mounted on a Nodwell Carrier. The description of the drill rig and drilling statistics are given in the Appendix.

Uranium must run over 0.1% U_3O_8 or 2 lbs. U_3O_8/ton to be considered ore. The sale price is fixed by the Government of Canada and in1973 is set at $4.60/lb. of U_3O_8. Most mills produce at about 2,000 tons/day, hence for a life of 10 years required reserves would be about 4,000,000 tons or 8,000,000 lbs. U_3O_8.

PROPERTY, DESCRIPTION AND LOCATION

The Sakami Area, about 96 air miles southeast of the village of Fort George, is situated on the west side of a large lake, Sakami Lake. It falls within the Map-sheet designated as NTS 33 F 2/W at latitude 53°12'N and longitude 76°54'W. This area, for Quebec mining purposes, is called Permit Area No. 548. No attempt was made by the writer to confirm the Permit Number or its ground position as this was left to the Canadian Nickel Company geologist on the site, M. Atkins.

Access to the area is by chartered aircraft from either Chibougamau, Fort George, or Mattagami, all in the Province of Quebec. There has been some winter over-land traffic across snow and ice terrain from the Fort George-Mattagami highway about 25 miles to the west of the Permit Area.

Access within the area is good, by water travel in the summer and ice travel with snowmobiles in the winter. There are also several winter tractor roads.

GEOLOGY

References:

Atkins, M. (Office map shown to the writer): Geology of the Sakami Quebec Project, Permit Area Number 548; Canadian Nickel Company Ltd., map.

Eade, K.E. (1966): Fort George River and Kaniapiskau River (west half) Map-Areas, New Quebec; Geol. Surv. Canada Memoir 339, 83p., map 1'=15.78 Miles.

Lee, H.A.; Eade, K.E.; and Heywood, W.W. (1960): Surficial geology Sakami Lake, New Quebec; Geol. Surv. Canada Map 52-1959, Scale 1'=8 miles.

Eade, K.E.; Heywood, W.W.; and Lee, H.A. (1958): Sakami Lake Area, New Quebec; Geol. Surv. Canada Map 23-1957, Scale 1'=8 miles.

Overburden in the area is from 10 to 50 feet and is shown on the accompanying maps as spot depths. The overburden cover is continuous except for the occasional outcrop along a ridge. Magnetic readings, completed on the ground for portions of the Permit Area show several strong easterly trending magnetic linears. These have been established, in part by drilling, as being due to iron formation and ultramafics. Some volcanic rocks, paragneiss, diabase,and sediments are known for the area.

An airborne gamma readout is said to have detected radioactivity at a multiple number of places within the Permit Area. The underlying rocks were known from the GSC maps to have units which include the favourable host rocks for uranium, quartzites and conglomerates of Proterozoic age. The airborne anomalies were checked out on the ground by M. Atkins of Canadian Nickel Co. and most were found to be due to large granitic boulders which showed low radioactivity. However, two or three small occurrences were found to be due to quartzite and quartzite pebble conglomerates that have a detrital matrix of sulfides. X-ray film work, polished section and mineralogy by Canadian Nickel Company laboratories showed-up some minute grains of uraninite and this must account for some of the radioactivity. The uraninite is in the matrix, along with sulphides, chiefly pyrite, but occasionally a small speck of galena or chalcopyrite. The approximate boundaries of this favoured quartzite-pebble conglomerate host rock are shown on the accompanying maps, and it is also seen that this rock lies within an extensive area of associated arkose sediments.

ENVIRONMENTS SAMPLED

The targets searched for were based on conditions known for the occurrence of U_3O_8 mineralization on the Sakami Quebec Project. The host rock is reported by M. Atkens to be quartzite with lenses of quartzite-pebble conglomerate. The U_3O_8 mineralization is said to occur in the matrix of the conglomerate along with sulfides. A U_3O_8 bearing mineral, uraninite, has been isolated from the matrix. The flow sheets and sampling procedures in this deep sampling program were set-up on the assumption that the above conditions apply throughout the Permit Area.

The deep sampling was then done to collect data on the three levels of targets: (1) the quartzite and quartzite-pebble conglomerates, (2) the sulfides, and (3) the mineral uraninite. Samples of bedrock were taken to give spot information at the site of the drill, and samples of basal till were taken to give information along the general area of dispersion by former ice. These two sources of data combined give control for outlining the areas of interest for further exploration.

The drill used to deep-sample based till and bedrock was a dual-tube reverse circulation system designed to give continuous overburden sampling with a single run of the rods and the same bit. The time required to do the job averages 38 minutes at each site. Decisions were made by H.A. Lee, as the drill was descending, on what material was being penetrated and samples were saved only from the favourable environments of basal till and bedrock. Those geotechnical properties of rates of penetration, smoothness of drilling, and return of water were used along with materials to decipher

the layers being penetrated. The results of on-drill site observations are given for each hole in the Appendix of this report. Table 5. Of the 31 holes drilled, 22 of them yielded samples of basal till, the remainder encountered rock directly, either in subcrop at the bottom of the lake, or below peat, or clay.

RESULTS ON PHASE 1
(See Accompanying Map, Phase 1)

OBJECTIVES

A small outcrop with ore-grade uraninite juts into the northern bay of Sakami Lake. The uraninite occurs as discreet grains, along with sulphides, within quartzite-pebble lenses of a quartzite formation. The objectives in Phase 1 are an evaluation by deep-sampling in the lake of: (a) an extension of the ore-zone under the lake, and (b) location of more lenses of the quartzite-pebble conglomerate. Bedrock chips give information at the hole, and clasts in the till give information between the holes. The grid spacing of lines at 400 ft., 800 ft., and 1,200 ft. "down-ice" from the mineralized outcrop are to provide laboratory orientation data for measurement of Phase 2.

HOST ROCK

Data on bedrock, in search of the host rock for uranium, comes from the bedrock cuttings. Their size averages ¼ to ½-inch in length and have about the same width. This size is controlled by the opening in the tricone cutting bit. Petrographic work was done on the bedrock chips by making two thin sections from each drill hole. H.A. Lee examined the chips under a petrographic microscope. To further bring

out a contrast and so permit percentage estimates to be made between quartz and feldspar, some of the unmounted chips were etched with hydrofluoric acid, and if still necessary, further stained by a potash test using sodium cobaltinitrite. The Appendix to this report, Table 2, and the accompanying maps show the rock types as determined from petrographic work on the bedrock cuttings.

Phase 1 Map shows that drill holes SL 1, SL 3A, and SL 4 have entered a bedrock quartzite environment. Likely in subcrop, this would be the quartzite-pebble conglomerate environment searched for as one objective. The small size of the drill-cuttings preclude recognition of pebbles from the conglomerates. A few feet away from drill-hole SL 3, an outcrop on land shows the presence of a quartzite pebble-conglomerate, with some of the "pebbles" measured in feet (M. Atkins, oral communication). As well as the pure quartzites, there are those: (a) With considerable interlayered mica; and (b) quartzites with low or moderate amounts of feldspar. These show on the accompanying maps as impure quartzite, and in Table 2 they are further broken down into micaceous quartzite and feldspathic quartzite. They are interpreted here as local winnowing or washing which has cleaned up some of the feldspathic quartzites and arkoses. The grains are not well rounded and are considered to be essentially local products. They are shoestring sands. Their plot on the map is outside the course interpreted for the former channel-deposits as marked by pure quartzites and quartzite-conglomerates.

The drilling produces for the till a mixture of cuttings from the larger clasts in the till, as well as some clasts which can pass through the drill openings relatively unscathed. The drill product is

a big bag of mixed material for further examination and percentage determinations. First, however, those pieces showing some faces formed by glacial transport had to be picked out and separated from those chips showing only newly broken faces. The volume reduction at this stage was considerable, in the average range of 7 to 1. The number of clasts of till remaining for petrographic determinations ranged for each drill sample from 15 to 907 (Table 1). To determine the percentage of quartzites the batch of clasts for each sample was etched with hydrofluoric acid. The map and Table 1 give the results of the petrographic determinations. It is seen that drill holes SL3, SL6, SL7, and SL8 have the favourable pure quartzite host rock, possibly quartz-pebble conglomerate, and the impure quartzite are in drill holes SL4, SL9 and SL10. The percentage of pure quartzite clasts in the basal till ranges from 2.4% to 6.8% and indicates a major source near hole SL3.

TABLE 1. PERCENTAGE OF QUARTZITE, QUARTZ, AND SULFIDES IN COARSE CLASTS FROM TILL, SAKAMI LAKE PROJECT, QUEBEC

Drill Hole No. SL	3	4	6	7	8	9	10	11	12	13	15	17	26	27	28	29	29A	32	33	34	35
Sample No.	222	219	212	209	202	205	232	235	240	243	255	249	263	267	271	278	275	284	287	290	293
Quartzite (%)	6.8	nil	2.4	2.4	4.9	nil	nil	0.3	nil	nil	7.8	nil	nil	1.7	0.9	nil	nil	nil	nil	nil	4.4
Micaceous quartzite (%)	nil	nil	nil	nil	nil	nil	16.7	nil	2.3	0.5	nil	nil	1.1	nil	nil	2.1	nil	nil	3.3	nil	nil
Feldspathic quartzite (%)	nil	20.5	nil	nil	nil	6.7	nil	nil	nil	nil	nil	nil	1.7	2.5	nil	nil	0.3	nil	nil	4.6	2.2
Quartz (%)	2.3	1.3	2.4	nil	nil	nil	0.7	0.8	0.6	1.9	0.7	1.7	1.1	nil	2.8	0.5	2.2	nil	1.6	1.5	1.1
Quartzite with sulfides (%)	nil	nil	nil	1.2*	1.9	nil	2.2	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil
Arkose with sulfides (%)	nil	nil	nil	nil	3.9	nil	nil	nil	nil	0.5	2.8	0.3	0.3	0.9	2.4	0.5	0.1	nil	nil	1.5	nil
No. of Clasts	44	73	42	85	103	15	138	373	172	372	147	287	355	118	211	194	907	30	61	65	275

* About 10% of the rock clast is sulfides.

SULPHIDES

Sulphide bearing chips show-up in the pure quartzite bedrock cuttings from drill holes SL1 and SL3A, and again in the impure quartzite cuttings from hole number SL3.

Clasts from the basal till that carry sulphides showed-up from the lithology counts in holes numbers SL7 and SL8 for pure quartzites, and in number SL10 for impure quartzites. Sulphides are abundant, at 3.9%, in clasts of arkose from hole SL8.

The sulphide pieces from the bedrock and basal till show that the sulphides with quartzites are under the lake, likely within the boundaries shown on the accompanying map for the course of the former river which may have acted as a trap for detrital uraninite.

RADIOACTIVITY, U_3O_8, $Th\ O_2$

By Scintillometer

A scintillometer measures a mass effect chiefly as gamma rays from decay products of uranium and thorium, but also other minerals. It requires a target of several inches on a face to give a mass effect response. The size of the untreated drilling chips, in a bag 3½ inches by 6-1/8 inches, were sufficiently large to give a response through the bag. When the samples from Phase 1 were tested with a scintillometer, four of them gave an "interesting" response over a background of 10 and less counts per second. A definite radioactive response was obtained on bedrock chips from hole number SL 3A. Later, the analysis of this sample show increased levels of U_3O_8 and ThO_2. A weak radioactive response of between 10 and 30 counts/second was

obtained on a sample of the finer sizes from basal till in hole number SL3. Because the position of the drill-hole is near to a known source area of uranium, the result was at first considered "exciting". However, further analysis of the sample for U_3O_8 and ThO_2 yielded low values. A moderately high radioactive response to a scintillometer was obtained on bedrock chips from drill-hole SL10. In addition to bedrock, the finer sizes in the basal till from the same drill-hole gave a weak radioactive response. However, on further analysis drill-hole SL10 gave disappointingly low values when measured for U_3O_8 and ThO_2. The very high percentage of mica, about 70 per cent, in some of the impure quartzite at hole SL10, and likewise in the basal till, at about 17 per cent is, possibly, the explanation for increased radioactivity. Yet this is not the case for the basal till from hole SL3 where the clasts show 7 per cent pure quartzite and no micaceous quartzite. The explanation may lie in radioactivity due to other minerals than U_3O_8 and ThO_2.

X-Ray Fluorescence

X-ray fluorescence equipment at Sheridan Park laboratories of International Nickel Company had been used earlier for assay work on uranium from the Sakami Project, and the standards had been set-up and were now available for this work. Sample requirements for an assay demands high levels of U_3O_8 ($\sim$100ppm) and ThO_2 ($\sim$100ppm) for prospecting purposes, as well as a sample of upwards of 5 grams, that is, enough material to cover the bottom of a cylinder 1¼ inches in diameter to a depth upwards of ¼ inch. It was considered that these requirements could be met if the mineralization is uraninite, as it

is in outcrop, and that the uraninite has withstood post depositional leaching. It would be possible to test the bedrock chips where quartzite was encountered but a concentrate by tetrabromethane would be required on the minus 80 mesh fraction of the basal till.

Results on drill-hole SL3 for bedrock chips have a U_3O_8 level at 400 ppm and ThO_2 level at 800 ppm. All other results for the Sakami project are below the detection limit for these elements by X-ray fluorescence. The high thorium to uranium ratio at drill-hole SL3 is due, likely, not to uraninite but to other unknown radioactive minerals, and as it is in the same horizon as the uraninite-bearing outcrop, causes us to consider that leaching of the uranium took place while the more stable thorium salts remained. The post-depositional environment of the bay in Phase 1 is shallow water with a depth of about 2 feet and bottom sediment of soft mud and clay.

Fluorimetry

The samples of basal till and bedrock were re-run by the fluorimetry method to attain a lower level of detection (0.1 ppm) for prospecting purposes. Now knowing that the post-depositional leaching of uranium is likely, we have to consider as of interest those values which in absolute terms are low, but may be high within the grouping of analyses. The U_3O_8 results on the heavy mineral concentrates from the fines of basal till are given in Table 2. A plot by histogram of these results shows that levels of 0.1 ppm to 0.9 ppm can be considered as background. Thus, the anomalous values for basal till are in drill-holes SL15 (Phase 2 map) at 2.1 ppm; SL27 (Phase 2 map) at 1.2 ppm; SL28 (Phase 2 map) at 1.1 ppm; and in SL35 (Phase 3 map) at 4.0 ppm.

TABLE 2. HEAVY MINERAL CONCENTRATES AND THEIR ANALYSES

Drill-hole No.	Sample No.	Ratio lights:heavies	Weight heavies	Fluorimetry U_3O_8	X-ray fluorescence U_3O_8	X-ray fluorescence ThO_2
SL			grams	ppm	ppm	ppm
3	221	1:1	60.4	0.2	100	100
4	218	36:1	10.5	0.6	100	100
5	216	34:1	8.7	0.8	100	100
6	211	9:1	54.3	0.3	100	100
7	208	6:1	16.7	0.5	100	100
8	201	0.8:1	90.7	0.1	100	100
9	204	19:1	7.3	0.4	100	100
10	231	19:1	6.1	0.1	100	100
11	237	25:1	9.2	0.4	100	100
12	241	25:1	13.5	0.1	100	100
14	246	18:1	19.9	0.5	100	100
15	256	31:1	10.4	2.1	100	100
17	250	80:1	4.5	0.6	100	100
26	264	41:1	7.8	0.2	100	100
27	266	34:1	11.8	1.2	100	100
28	270	25:1	11.6	1.1	100	100
29	277	39:1	6.2	-	100	100
30	279	17:1	8.3	0.5	100	100
32	283	37.1	7.1	0.8	100	100
33	286	24.1	12.6	0.3	100	100
34	289	8:1	39.5	0.2	100	100
35	292	31:1	11.7	4.0	100	100

The U_3O_8 results on bedrock chips are given in Table 3. From a histogram plot, the background can be considered to be in the range of 0.1 ppm to 0.8 ppm. Thus, the anomalous values are in drill holes SL4 at 1.7 ppm, and in SL 15 (Phase 2 map) at 2.8 ppm.

TABLE 3. CONTENT OF U_3O_8 AND ThO_2 IN BEDROCK

Drill-Hole No.	Sample No.	Fluorimetry U_3O_8	X-Ray Fluorescence U_3O_8	X-Ray Fluorescence ThO_2
SL		ppm	ppm	ppm
1	230	0.1	<100	<100
3A	227	-	400	800
4	220	1.7	<100	<100
5	217	0.8	<100	<100
8	203	0.1	<100	<100
10	233	0.1	<100	<100
11	239	0.4	<100	<100
12	242	0.1	<100	<100
13	244	0.6	<100	<100
15	254	2.8	<100	<100
19	259	1.0	<100	<100

The above results from the fluorimetry method will be seen later to give higher values in the same general area as that outlined by pure quartzite and by sulphides in quartzite.

X-Ray Film Exposure

All of the sulphide clasts from the basal till samples were tested to see if they contained just one or more grains of uraninite. The samples are small, represented by from one to three chips. They were ground to minus 80 mesh and then spread evenly onto squares of unexposed X-ray film for 1½ days of exposure, after which the film was developed. One sample was re-run after being spiked with three known grains of uraninite for test purposes. The results are negative for uraninite except for the test sample. However, in drill hole SL29, a few weak spots showed up on the film, likely representing weakly radioactive minerals such as zircon.

ANOMALOUS AREAS

The objective to find more lenses of quartzite-pebble conglomerate was met in Phase 1 by two of the holes into bedrock, and four of the holes into basal till. The sulphides associated in outrcop with uraninite show up well in two of the holes into bedrock and two of the holes into basal till. Uraninite was not found. However, there is evidence in one hole into bedrock, that the radioactivity is due, not to uraninite which would have a high U_3O_8:ThO_2 ratio, but to other radioactive minerals giving the low ratio. The interpretation in this report is that post-depositional leaching of the mobile U_3O_8 has taken place leaving more resistant ThO_2 behind. The postulated deep-water environment of the bay did not materialize, and instead the bay was found to be of very shallow water and mud bottom. Analysis by fluorimetry has shown an increased U_3O_8 content in the bedrock chip samples from drill hole SL4.

The above anomalous results for host rock, sulphides, and radioactivity are grouped on the map to outline an area which is considered to represent the interesting zone for mineralization. An exploration model for this deposition is an old river channel passing through arkose terrane in which the quartzite "boulders" in the quartzite-"pebble" conglomerate mark the course and headwaters of the former channel, and the boulders acted as a trap for the detrital heavy minerals of uraninite, pyrite, etc.

RESULTS ON PHASE 2
(See accompanying map, Phase 2)

OBJECTIVES

A quartzite formation, with lenses of quartz-pebble conglomerate, outcrops within a mile of the shore of Sakami Lake. The strike of

this formation and a general trend of magnetic data in the area of outcrop suggests a likely continuation of this zone to the northeast under Sakami Lake. The continuation of this zone to the lake and under it can be determined by deep-sampling (15 holes). The chips of bedrock will give information on lithology and mineralization at the site. The clasts in the till will give information on lithologies between holes and on mineralization near holes.

RESULTS

The host rock of pure quartzite, which includes quartzite-pebble conglomerate, was encountered in bedrock in drill holes SL11 and SL15. The quartzite was encountered in basal till in drill holes SL11 at 0.3% of the total till clasts; SL15 at 7.8%; SL27 at 1.7% and SL28 at 0.9%. The quartzite in hole SL27 is most significant because some of the chips show contact edges of rounded quartz and quartzite pebbles indicative of quartzite-pebble conglomerate as it would likely appear in subcrop.

Sulphide bearing clasts from the basal till show-up in drill holes SL13, SL15, SL17, SL26, SL27, and SL28. Samples from these holes show the sulphides to be in arkose. In holes SL26 and SL27 the sulphides are also in feldspathic quartzite. None of these sulphide-bearing clasts gave radioactive response when exposed to x-ray film.

Fluorimetry results show higher levels in the bedrock at drill hole SL15 at 2.8 ppm U_3O_8. Background is 0.1 ppm to 0.8 ppm. Increased levels of U_3O_8 are in the heavy mineral concentrates of basal till fines in drill holes: SL15 at 2.1 ppm; SL27 at 1.2 ppm; and SL28 at 1.1 ppm. (background 0.1 ppm to 0.9 ppm).

The objective to outline the quartzite belt under Sakami Lake has been reached. The grid for drilling was shifted several times during the progress of the job to follow the quartzite. The anomalous results given above for host rock, sulphides, and analysis by fluorimetry are outlined on the accompanying map for Phase 2. A former river course is indicated as the area of interest and "boulders" of quartz and quartzite are strongly indicated by the "pebbles" contacts seen in clasts from SL27, basal till.

RESULTS ON PHASE 3
(See accompanying map, phase 3)

OBJECTIVES

The subcrop extension of the outcropping quartzite is according to one postulation folded to the south. Two deep sample holes (SL29 and SL30) were placed to provide information on the postulated fold to the south.

The favourable quartzite formation strikes northeast across the bay. Its southward extensions are not known. A line of five widely spaced holes were placed to determine the presence or absence of the quartzite formation to the south, and to help limit the area of further follow-up.

RESULTS

The favoured host rock of pure quartzite occurs in clasts of basal till in drill-hole SL35 at 4.4% of total clasts. The quartzite shows outlines of larger rounded "pebbles" and may well represent what is quartzite-pebble conglomerate in subcrop. No other drill-holes showed-up pure quartzite. However, micaceous quartzite is in

basal till clasts from drill-holes SL29 and SL33, and feldspathic quartzite is in basal till clasts from SL29 and SL34.

Sulphides in arkose occur in basal till clasts from drill-holes SL29 and SL34.

An anomalous value in U_3O_8 at 4.0ppm is in heavy minerals from basal till at drill-hole SL35 (background 0.1 ppm to 0.9 ppm).

The postulated fold of quartzite southward into the area of SL29 and SL30 did not materialize. The southward extension of the quartzite from the small bay is shown to be near drill-hole SL35 where there is evidence of quartz-pebble conglomerate in the basal till, as well as considerably increased level of U_3O_8 by fluorimetry in heavy minerals from the basal till. The anomalous results, host rock and U_3O_8 at drill-hole SL35, permit us to tentatively join-up the course for a former river from near SL35 to the interesting localities to the east shown by drill-holes SL11, SL15, SL27 and SL28. These connections are shown on the accompanying map, Phase 3.

CONCLUSIONS

LEVEL OF EXPLORATION

The level of exploration for uranium on the Sakami Quebec Project is still in an early phase. A map by M. Atkins shows that pyritic quartzite-pebble conglomerates were found at two localities. The "pebbles" in them are said to be large, and measured in feet. Both localities are said to be strong (?) radioactive to a scintillometer. At least one locality was drilled and the core at depth is said to have assayed about 0.1% U_3O_8. Some mineralogical work was carried out and the radioactive mineral uraninite was isolated.

M. Jost and R. Webster (oral communication) looked at some of the drill core from below the prospect outcrop of quartz-pebble conglomerate at Sakami Lake and noted "pebbles" of quartzite, but not quartz. These pebbles had poor contact outlines.

The overall purpose of the drilling reported on herein was to put some limits on the area of favourable host conditions. This has been done. General limits are shown on the accompanying maps for the northern, eastern, and southern boundaries, and they narrow down considerably the area required for follow-up work.

ARKOSE AND ULTRAMAFIC TERRANE

A large part of the broad peninsula extending from the northern bay to the main part of Sakami Lake is shown by this drilling to be underlain by arkose, which is chiefly fine-grained, but in places is gritty. Scattered pyrite is a frequent constituent. Elsewhere, coarse grained arkose has been considered to be a good criteria for former weathering of a granitic mantle which has given rise to sources of uranium from zircon and monozite. Ultramafic rocks underlie a considerable part of the northern bay and are also in the area of Phase 2 under a portion of Sakami Lake.

QUARTZITE-PEBBLE CONGLOMERATE AND QUARTZITE

Chips from drilling are small and it is difficult to recognize pebbles in them, although sometimes this can be done. It is likely that much of the very pure quartzite encountered in this drilling would be quartzite-pebble conglomerate in subcrop as suggested by hole SL3A just off such an outcrop.

Distribution

Drill-holes SL1, SL3A and SL4, into bedrock penetrated the very pure quartzite under the northern bay (Phase 1). In the same area drill-holes SL3, SL6, SL7, and SL8 penetrated pure quartzite in basal till.

In the area of Phase 2 which extends out under Sakami Lake, drill-holes SL11 and SL15 penetrated pure quartzite in bedrock, and drill-holes SL11, SL15, SL27, and SL28 encountered pure quartzite in basal till. At SL28 the pebble outlines show both quartz and quartzite.

In the area of Phase 3 which extends south from the northern bay, drill-hole SL35 intersected pure quartzite in clasts from the basal till. Some "pebble" contacts were observed.

The limits to an area of favourable host rock, the quartzite-pebble conglomerate and quartzite, are shown on the accompanying maps.

Micaceous quartzites and feldspathic quartzites are allied rocks encountered in this drilling program. They are considered herein to be products of local washing and winnowing, shoestring sands, and at this level of exploration relatively unimportant.

Character

The pure quartzite and quartzite-pebble conglomerates are commonly pyrite-bearing in the area of the northern bay of Phase 1. Sulphides show in pure quartzite chips from bedrock at holes SL1 and SL3A, as well as in basal till clasts from holes SL7 and SL8. This characteristic bears some resemblance to the conglomerates from Elliott Lake, Ontario, typed by Roscoe (1969, p. 143) as 1 to 3.

Roscoe, S.M. (1969): Huronian rocks and uraniferous conglomerates; Geol. Surv. Canada, Paper 68-40, 63p.

In other parts of the Sakami area, the drilling showed the sulphides to be chiefly in arkose and to a minor extent in feldspathic quartzite and micaceous quartzite (SL10). X-ray graphs were made from the sulphide bearing pieces ground to minus 80 mesh, but they failed to show any strong radioactivity such as from uraninite or brannerite. Only a few spots of weakly radioactive material showed in basal till clasts from hole SL29, these could be possibly radioactive zircon or monazite.

U_3O_8 Significance

The assay value for bedrock chips from hole SL3A is U_3O_8 at 400 ppm and ThO_2 at 800 ppm (X-ray fluorescence). Assuming for exploration purposes only, that the single sample is representative, then it can be said that this pyrite quartzite, or quartzite-pebble conglomerate, fits Types 1, 2 and 3 for comparison with Elliott Lake of Ontario and Witwatersrand of Republic of South Africa. The ratio of ThO_2:U_3O_8 at 2 to 1 is high and eliminates Roscoe's Type 1.

The available data on weathering of uraninite is conflicting. Roscoe (1969, p. 122) states that there is..."a widespread misconception concerning surface leach of uranium from pyrite conglomerates...." He is ....."not aware of any evidence of uranium or daughter uranium product leaching, or disequilibrium effects, that could be grossly misleading to exploration work in Huronian rocks." In the same report Roscoe (p. 74) acknowledges that ...."it is generally considered unlikely that much uraninite survives normal, present-day weathering processes."

In this drilling program we do not deal with outcrop exposure as considered above by Roscoe. The rocks here in subcrop and some have

been exposed first to deep salt water (Tyrell Sea) and later shallow fresh water washing. The writer suggests that surface leaching of uraninite has taken place. This can be confirmed of the high ratio of ThO_2:U_3O_8 in hole SL3A if it changes to a low ratio in the nearby outcrop. Both are of the same horizon. Furthermore, leaching is consistent with the geochemical results attained by fluorimetry. The values of U_3O_8 are all low, in the range of <0.1 ppm to 4 ppm. For exploration interest by geochemistry, the low absolute values must be accepted, and anomalous results need to be considered within this range. When a plot is made of all anomalous values of U_3O_8 they fall within the area limits set-out by the distribution of pure quartzite and quartzite-pebble conglomerate. These anomalous levels are in bedrock in holes SL4, SL15, and SL35. They are in basal till in holes SL11, SL15, SL27, SL28 and SL35.

The conclusion contained herein is that the limits shown on the maps accompanying this report outline the northern, eastern and southern portions of both quartzite host rock and uranium mineralization.

GENERAL RECOMMENDATIONS

(1) Limits to the areas of favourable host rock and uranium mineralization are open to the southwest from the northern bay. It is recommended that a program be laid-out to further tie-down this area in search of host rock and mineralization, before detailed work is done. In any drilling program a down-hole probe should be considered essential.

(2) No detailed work has been done between the outcrop near SL11 and the drill-hole to the west near SL35. It is recommended that

this area be tested for favourable host rock and uranium.

(3) Experience at Elliott Lake has shown that the size of the boulders ("pebbles") in the conglomerates and the size and composition of the heavy minerals decrease "downstream", while the ore grade increases "up-stream". It is recommended that the texture, composition of the boulders in the conglomerate and the heavy mineral content of the conglomerate be studied to determine the upstream direction.

(4) Huronian (Precambrian) conglomerates have been classified by Roscoe (1969) into five types and various uranium bodies of the world have been fitted into these types. It is recommended that to take advantage of the literature the conglomerates in outcrop should be classified. This requires a determination of the ratio of $ThO_2:U_3O_8$ and the relative abundance of the different heavy minerals.

LEE GEO-INDICATORS LIMITED

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APPENDIX

LOGS OF DRILL HOLES

Quebec, Sakami Lake Area, Sheet 33F2/W

Drill-hole: SL1

Location: Phase 1; 82+00W, 25+50N

0-2'	ice
2'-22'	Tyrell Sea clay, organic, shells
22'-28'	no return, slow penetration, rough vibration, gravel (?)
28'-30'	no return, very slow penetration, very rough vibration, gravel (?)
30'-34'	minor water return, bedrock (?)
34'-35'	bedrock, quartzite with sulphides

Sample No. 229; bedrock, coarse; depth 34'-35'
Sample No. 230; bedrock, medium; depth 34'-35'

Drill-hole: SL2

Location: Phase 1; 82+00W, 21+50N

0-2'	ice
2'-2½'	Tyrell Sea clay, shells
2½'-3'	bedrock, talc-tremolite after ultramafic

Sample No. 228; bedrock, coarse; depth 30'-31'

Drill-hole: SL3

Location: Phase 1; 82+00W, 17+50N

0-2'	ice
2'-3'	clay
3'-3.5'	till
3.5'-4.5'	bedrock, diabase

Sample No. 221; till, fine; depth 38'-38.5'; weak response to a scintillometer
Sample No. 22; till, coarse; depth 37'-38.5'
Sample No. 223; bedrock, coarse; depth 38.5'-39.5'
Sample No. 224; bedrock, fine; depth 38.5'-39.5'

Drill-hole: SL3A

Location: Phase 1; 82+00W, 19+50N

0-2'	ice
2'-10'	no return, smooth vibration, sand (?)
10'-12'	no return, rough vibration, gravel (?)
12'-1513'	bedrock, quartzite with sulphides

Sample No. 226; bedrock coarse; depth 13'-13.5'; definite respone on a scintillometer
Sample No. 227; bedrock medium; depth 13'-13.5'; definite respone on a scintillometer

Drill-hole: SL4

Location: Phase 1; 82+00W, 13+50N

0-2'	ice
2'-33'	Tyrell Sea clay, shells, organic
33'-57'	till
57'-58'	bedrock, quartzite

Sample No. 218; till, fine; depth 50'-57'
Sample No. 219; till, coarse; depth 50'-57'
Sample No. 220; bedrock, coarse and fine; depth 57'-58'

Drill-hole: SL5

Location: Phase 1; 82+00W, 9+50N

0-2'	ice
2'-31'	Tyrell Sea clay, shells
21'-33'	till (?), very slow penetration, rough vibration
33'-34'	bedrock, impure quartzite, minor fg. sulphides

Sample No. 216' till (?), fine; depth 31'-33'
Sample No. 217; bedrock, coarse; depth 33'-34'

Drill-hole: SL6

Location: Phase 1; 92+00W, 3 1+50N

0-2'	ice
2'-40'	Tyrell Sea silt, clay, shells
40'-44'	fine sand
44'-47'	clay, gravel
47'-60'	Tyrell Sea stony marine clay
60'-62'	till
62'-64'	bedrock, ultramafic

Sample No. 211; till, fine; depth 60'-62'
Sample No. 212; till, coarse; depth 60'-62'
Sample No. 213; bedrock, coarse; depth 62'-64'
Sample No. 214' bedrock, fine; depth 62'-64'

Drill-hole: SL7

Location: Phase 1; 92+00W, 17+50N

0-2.2'	ice
2.2'-5.5'	water
5.5'-22'	silt, clay, fine sand
22'-35'	no return, pulled rods from bedrock and obtained a "washed-down" sample of till

35'-37' bedrock, serpentinite

Sample No. 208; till, fine (washed-down); depth 34'-35'
Sample No. 209; till, coarse (washed-down); depth 34'-35'
Sample No. 210; bedrock, coarse; depth 35'-37'

Drill-hole: SL8

Location: Phase 1; 92+00W, 21+50N

0-2'	ice
2'-2.2'	water
2.2'-20'	soft silt, clay
20'-25'	sand, gravel
25'-31'	till
31'-33'	bedrock, diabase

Sample No. 201; till, fine; depth 25'-31'
Sample No. 202; till, coarse; depth 25'-31'
Sample No. 203; bedrock, coarse; depth 31'-33'

Drill-hole: SL9

Location: Phase 1; 102+00W, 21+50N

0-2.5'	ice
2.5'-4'	water
4'-36'	soft mud
36'-40'	Tyrell Sea clay, silt
40'-58'	Tyrell Sea stony marine clay
58'-62'	till
62'-64'	bedrock, talc-carbonate ultramafic

Sample No. 204; till, fines; depth 58'-62'
Sample No. 205' till, coarse; depth 58'-62'
Sample No. 206; bedrock, coarse; depth 62'-64'
Sample No. 207; bedrock, medium; depth 62'-64'

Drill-hole: SL10

Location: Phase 1; 102+00W, 16_50N

0-2'	ice
2'-20'	Tyrell Sea clay, shells, sand
20'-62'	no return, rough vibration, sand (?) and gravel (?)
62'-66'	till
66'-67'	bedrock, quartzite with micaceous layers

Sample No. 231; till, fine; depth 63'-66'; weak response on a scintillometer

Sample No. 232; till, coarse; depth 63'-66'
Sample No. 233; bedrock, coarse; depth 66'-67'; medium response on a scintillometer
Sample No. 234; bedrock, medium; depth 66'-67'

Drill-hole: SL11

Location: Phase 2; 22+00E, 7+80S

0-2'	compact snow
2'-19'	gravelly till
19'-46'	clayey till
46'-48'	bedrock, interlayered quartzite and anthophyllite

Sample No. 235; till, coarse; depth 2'-19'
Sample No. 236; till, coarse; depth 19'-46'
Sample No. 237; till, fine; depth 34'-46'
Sample No. 238; bedrock, coarse; depth 46'-48'
Sample No. 239; bedrock, medium, depth 46'-48'

Drill-hole: SL12

Location: Phase 2; 32+00E, 8+00S

0-4'	no return, smooth penetration
4'-15'	no return, rough vibration, gravelly sand (?)
15'-16'	clayey till
16'-18'	no return, slow penetration, rough vibration
18'-34'	clayey till
34'-36'	bedrock, argillaceous meta-sediment

Sample No. 240; till, coarse; depth 25'-34'
Sample No. 241; till, fine; depth 25'-28'
Sample No. 242; bedrock, coarse; depth 34'-36'

Drill-hole: SL13

Location: Phase 2; 32+00E, 20+00S

0.7'	gravel
7'-28'	Tyrell Sea stony marine clay
28'-42'	till
42'-59'	poor return, steady penetration, sand (?)
59'-63'	very fine sand
63'-65'	bedrock, argillaceous meta-sediment

Sample No. 243; till, coarse; depth 28'-42'
Sample No. 244; bedrock, coarse; depth 63'-65'
Sample No. 245; bedrock medium; depth 62'-65'

Drill-hole: SL14

Location: Phase; 32+00E, 32+23S

0-4'	peat, organic
4'-9'	clay
9'-15'	no return, fast penetration, rough vibration, sand (?) and fill?
15'-16'	bedrock, arkose

Sample No. 246; till (?), fine; depth 14'-15'
Sample No. 247; bedrock, coarse; depth 15'-16'
Sample No. 248; bedrock, medium; depth 15'-16'

Drill-hole: SL15

Location: Phase 2; 52+00E, 8+00S

0-2'	ice
2'-3'	water
3'-12'	clay
12'-13.5'	till
13.5'-14'	bedrock, quartzite, likely conglomerate

Sample No. 253; bedrock, coarse; 13.5'-14'
Sample No. 254; bedrock, medium; 13.5'-14'
Sample No. 255; till, coarse; 12'-13.2'
Sample No. 256; till, fine; 13'-13.2'

Drill-hole: SL16

Location: Phase 2; 52+00E, 23+00S

0-3'	peat, organic
3'-5'	bedrock, mixed amphibolite and quartzite

Sample No. 252; bedrock, coarse; depth 4'-5'

Drill-hole: SL17

Location: Phase 2; 52+00E, 32+00S

0-13'	no return, fast penetration, smooth, organic 00ze (?)
13'-40'	Tyrell Sea stony marine clay
40'-76.5'	till
76.5'-80'	bedrock, argillaceous quartzite

Sample No. 249; till, coarse; 22'-55'
Sample No. 250; till, fine; 55'-76.5'
Sample No. 251; bedrock, coarse; 76.5'-80'

Drill-hole: SL18 - No hole

Drill-hole: SL19

Location: Phase 2; 76+00E, 20+00S

0-3'	ice
3'-60'	water
60'-68'	Tyrell Sea clay, shells
68'-73'	Tyrell Sea stony marine clay
73'-79'	sand
79'-81'	bedrock, meta-arkose

Sample No. 258; bedrock, coarse; depth 79'-81'
Sample No. 259; bedrock, medium; depth 79'-81'

Drill-hole: SL20

Location: Phase 2; 76+00E, 8+00S

0-2'	ice
2'-25'	water (?)
25'-28'	bedrock, meta-arkose

Sample No. 257; bedrock, coarse; depth 27'-28'

Drill-hole: SL21

Location: Phase 2; 100+00E, 8+00S

0-3'	ice
3'-29'	water
29'-31'	bedrock, arkose

Sample No. 261; bedrock, coarse; depth 29'-31'
Sample No. 262; bedrock, medium; depth 29'-31'

Drill-hole: SL22

Location: Phase 2; 100+00E, 20+00S

0-3'	ice
3'-40'	water
40'-44'	no return, smooth vibration, mud (?)
44'-45'	Tyrell Sea, stony marine clay
45'-46'	bedrock, amphibolitized meta-sediment

Sample No. 260; bedrock, coarse; depth 45'-46'

Drill-hole: SL23 to SL25. No holes

Drill-hole: SL26

Location: Phase 2; 100+00E, 4+00N

0-3'	ice
3'-10'	water
10'-27'	no return, rough vibration, gravel and sand?
27'-36'	clay
36'-42'	Tyrell Sea stony marine clay
42'-78.8'	till
78.8'-79.5'	bedrock, andesite

Sample No. 263; till, coarse; depth 36'-78.8'
Sample No. 264; till, fine; depth 78.6'-78.8'
Sample No. 265; bedrock, coarse; depth 78.8'-79.5'

Drill-hole: SL27

Location: Phase 2; 76+00E, 2+00S

0-2'	ice
2'-40'	water
40'-60'	Tyrell Sea clay, shells
60'-74'	Tyrell Sea stony marine clay
74'-75.2'	till
75.2'-76'	bedrock, arkose

Sample No. 266; till, fine; depth 75'-75.2'
Sample No. 267; till, coarse; depth 60'-75.2'
Sample No. 268; bedrock, coarse; depth 75.2'-76'
Sample No. 269; bedrock, medium; depth 75.2'-76'

Drill-hole: SL28

Location: Phase 2; 64+00E, 8+03S

0-2'	ice
2'-40'	water, clay
40'-46'	Tyrell Sea clay, shells
46'-53'	till
53'-54'	bedrock, arkose with sulphides

Sample No.270; till, fine; depth 52.6'-53'
Sample No. 271; till, coarse; depth 46'-53'
Sample No. 272; bedrock, coarse; depth 53'-54'
Sample No. 273; bedrock, medium; depth 53'-54'

Drill-hole: SL29

Location: Phase 3; 22+00E, 66+00S

0-20'	till
20'-39'	no return
39'-42'	clay
42'-60'	compacted yellow sand, interglacial (?)
60'-67'	no return, smooth penetration, sand (?)

67'-74' no return, good penetration, rough vibration, sand and gravel (?)
74'-79' clay
79'-123' clay, very compacted, pre-consolidated clay (?)
123'-126' stony till
126'-129.6' till
129.6'-131' bedrock, paragneiss

Sample No. 274; till, fine; depth 129.4'-129.6'
Sample No. 275; till, coarse; depth 126'-129.6'
Sample No. 276; bedrock, coarse; depth 129.6'-131'
Sample No. 277; till, fine; depth 19'-20'
Sample No. 278; till, coarse; depth 0-20'

Drill-hole: SL30

Location: Phase 3; 22+00E, 54+00S

0-21' no return, smooth vibration, sand (?)
21'-25' no return, slow penetration, rough vibration, gravel (?)
25'-38' gravel
38'-39' till (?)
39'-40' bedrock, arkose

Sample No. 279; till (?), fine; depth 38'-38.5'
Sample No. 280; bedrock, coarse; depth 38.5'-40'

Drill-hole: SL31

Location: Phase 3; 93+00W, 124+50S

0-12' peat, organic
12'-13' clay
13'-15' stony clay
15'-16' bedrock, metamorphic rock with pyrite

Sample No. 281; bedrock, coarse; depth 13'-16'
Sample No. 282; bedrock, medium; depth 13'-16'

Drill-hole: SL32

Location: Phase 3; 100+00W, 93+50S

0-15' peat, organic
15'-22' stony clay
22'-34' no return, sand (?)
34'-40' till
40'-43' bedrock, arkose

Sample No. 283; till, fine; depth 34'-40'
Sample No. 284; till, coarse; depth 34'-40'

Drill-hole: SL33

Location: Phase 3; 100+00W, 63+00S

0-20'	peat, organic
20'-21'	no return, sand (?)
21'-28'	interlayered stony clay and sand
28'-35'	no return, rough vibration, gravel and sand (?)
35'-38.5'	no return, smooth vibration, sand (?)
38.5'-45'	no return, sand and gravel (?)
45'-48'	stony clay
48'-49.3'	till
49.3'-52'	bedrock, arkose

Sample No. 286; till, fine; depth 49'-49.3'
Sample No. 287; till, coarse; depth 48'-49.3'
Sample No. 288; bedrock, coarse; depth 49.3'-52'

Drill-hole: SL34

Location: Phase 3; 100+00W, 34+00S

0-7'	peat, organic
7'-15'	clay
15'-20'	no return, sand (?)
20'-24'	no return, sand (?)
20'-24'	clay
24'-27'	till
27'-28'	bedrock, diabase

Sample No. 289; till, fine; depth 24.4'-27'
Sample No. 290; till, coarse; depth 24'-27'
Sample No. 291; bedrock, coarse; depth 27'-28'

Drill-hole: SL35

Location: Phase 3; 100+00W, 6+00S

0.5'	peat, organic
5'-13'	stony clay
13'-15.6'	till
15.6'-16'	bedrock, arkose

Sample No. 292; till, fine; depth 15.5'-15.6'
Sample No. 293; till, coarse; depth 13'-15.6'
Sample No. 294; bedrock, coarse; depth 15.6'-16'

PETROGRAPHIC DESCRIPTION OF BEDROCK

Quebec, Sakami Lake Area, Sheet 33F2W

Drill hole: SL1. Sample No. 229

Location: Phase 1, 82+00W, 25+50N

Classification: Quartzite with sulfides consisting of subangular to rounded quartz (95%), chlorite-biotite (3%), feldspar-amphibole-carbonate (1%), and sulfides of pyrite and pyrrhotite (1%).

Drill hole: SL2. Sample No. 228

Location: Phase 1, 82+00W, 21+50N

Classification: Talc-tremolite rock after ultramafic consisting of talc (60%), fibrous radiating tremolite (25%) and black magnetic oxides (15%).

Drill hole: SL3. Sample No. 223

Location: Phase 1, 82+00W, 17+50N

Classification: Diabase consisting of pyroxene (45%), altered feldspar (50%), and black opaques (5%). The rock has a diabasic texture.

Drill hole: SL3A. Sample No. 226

Location: Phase 1, 82+00W, 19+50N

Classification: Quartzite with sulfides consisting of subangular to rounded quartz (85%), mica-chlorite (8%), pyrite (5%), and feldspar (2%). An occasional fg black opaque mineral is present, possibly uraninite. A soil envelope filled with rock chips gives a definite radioactive response on a scintillometer.

Drill hole: SL4. Sample No. 220

Location: Phase 1, 82+00W, 13+50N

Classification: Quartzite consisting of subangular to rounded quartz (95%) and biotite (5%). One grain of serpentine is present.

Drill hole: SL5. Sample No. 217

Location: Phase 1, 82+00W, 9+50N

Classification: Impure quartzite consisting of subangular to rounded quartz (55%), biotite (30%), feldspar (10%), and hornblende (5%). The rock contains minor amounts of fg sulfides.

Drill hole: SL6. Sample No. 213

Location: Phase 1, 92+00W, 13+50N

Classification: Probably after ultramafic and near sheared contact consisting of fibrous white anthophyllite-chlorite (70%), biotite (20%), and Magnetite (10%). The rock is sheared.

Drill hole: SL7. Sample No. 210

Location: Phase 1, 92+00W, 17+50N

Classification: Serpentinite consisting of talc-serpentine (97%), and black iron oxides (3%). The rock is cut by small veinlets of quartz.

Drill hole: SL8. Sample No. 203

Location: Phase 1, 92+00W, 21+50N

Classification: Diabase consisting of feldspar (58%), pyroxene (40%), and black oxides (2%). The rock has a diabasic texture.

Drill hole: SL9. Sample No. 206

Location: Phase 1, 102+00W, 21+50N

Classification: Talc-carbonate rock probably after ultramafic consisting of talc-calcite (80%), highly altered pseudomorphs after olivine (10%), and fg magnetite (10%).

Drill hole: SL10. Sample No. 233

Location: Phase 1, 102+00W, 16+50N

Classification: Interlayered quartzite with micaceous rock consisting of brown and green mica (70) and subangular to sub-rounded quartz (30%). A radioactive response of 40 counts per second on a scintillometer was at first thought to be due to radioactivity in the sample, but is now considered as high background.

Drill hole: SL11. Sample No. 238.

Location: Phase 2, 22+00E, 7+80S

Classification: Interlayered quartzite and anthophyllite. The quartzite layers consists of subangular to subrounded quartz (98%) and sulfides (2%). The anthophyllite is in long prismatic silicate grains.

Drill hole: SL12. Sample No. 242

Location: Phase 2, 32+00E, 8+00S

Classification: Argillaceous metasediment consisting of fg amphibole %50%), fg subangular to subrounded quartz-feldspar (40%), chlorite-biotite (8%), and pyrite (2%).

Drill hole: SL13. Sample No. 244

Location: Phase 2, 32+00E, 20+00S

Classification: Argillaceous metasediment (impure quartzite) consisting of gritty subangular quartz (30%), and vfg argillaceous material (70%). The argillaceous material is composed of muscovite (40%), hornblende-chlorite-biotite (10%), and feldspar (10%).

Drill hole: SL14. Sample No. 247

Location: Phase 2, 32+00E, 32+23S

Classification: Arkose consisting of feldspar (50%), amphibole (40%), and quartz (10%). Chip sample identification only.

Drill hole: SL15. Sample No. 253

Location: Phase 2, 52+00E, 8+00S

Classification: Quartzite, possibly conglomerate, consisting of subrounded quartz (100%). Some of the quartz grains are large and may be quartzite pebbles.

Drill hole: SL16. Sample No. 252

Classification: Mixed amphibolite and quartzite consisting of areas of all amphibole to areas of amphibole (55%), quartz (40%), and biotite (5%).

Drill hole: SL17. Sample No. 251

Location: Phase 2, 52+00E, 32+00S

Classification: Argillaceous quartzite consisting of subangular to subrounded quartz (55 to 80%), fg muscovite (5 to 30%), biotite (2%), feldspar (5%), and sulfides (8%). The rock is strongly foliated.

No drill hole SL18

Drill hole: SL19. Sample No. 258

Location: Phase 2, 76+00E, 20+00S

Classification: Meta-arkose consisting of subangular to subrounded feldspar (50%), subrounded quartz (35%), biotite (14%), and hornblende (1%). The rock carries an occasional garnet.

Drill hole: SL20. Sample No. 257

Location: Phase 2, 76+00E, 8+00S

Classification: Meta-arkose consisting of subangular to subrounded feldspar (60%), subangular to subrounded quartz (20%), biotite (15%), and black oxides (5%). The rock carries an occasional garnet and pyrite.

Drill hole: SL21. Sample No. 261

Location: Phase 2, 100+00E, 8+00S

Classification: Arkose consisting of gritty subangular to subrounded quartz (30%), feldspar (54%), muscovite-phlogopite (15%) and pyrite (1%).

Drill hole: SL22. Sample No. 260

Location: Phase 2, 100+00E, 20+00S

Classification: Amphibolitized meta-sediment consisting of subrounded feldspar (40%), fibrous amphibole (30%), quartz (20%), muscovite-phlogopite (8%), and pyrite (2%).

Drill hole: SL26. Sample No. 265

Location: Phase 2, 100+00E, 4+00N

Classification: Andesite consisting of feldspar (55%), fg mica (30%), pyroxene (5%), epidote (5%), and chlorite (5%).

Drill hole: SL27. Sample No. 268

Location: Phase 2, 76+00E, 2+00S

Classification: Arkose consisting of subrounded feldspar (50%), subrounded quartz (35%), biotite (10%), and epidote (5%).

Drill hole: SL28. Sample No. 272

Location: Phase 2, 64+00E, 8+03S

Classification: Arkose with sulfides consisting of subangular to subrounded feldspar (40%), coarse quartz grit (5%), fg subangular to subrounded quartz (30%), biotite-phlogopite (20%), and pyrrhotite-pyrite (5%).

Drill hole: SL29. Sample No. 276

Location: Phase 3, 22+00E, 66+00S

Classification: Paragneiss consisting of fresh feldspar (77%), pyroxene (20%), epidote (2%), and quartz (1%). The rock carries an occasional garnet. It is strongly foliated.

Drill hole: SL30. Sample No. 280

Location: Phase 3, 22+00E, 54+00S

Classification: Arkose consisting of fg subangular to subrounded feldspar (50%), fg subrounded quartz (30%), and fg biotite (20%). The rock carries an occasional grain of pyrite.

Drill hole: SL31. Sample No. 281

Location: Phase 3, 93+00W, 124+50S

Classification: Metamorphic rock consisting of contact between feldspathic intrusive rock and a rock composed of actinolite-tremolite with feldspar and pyrite (5%).

Drill hole: SL32. Sample No. 285

Location: Phase 3, 100+00W, 93+50S

Classification: Arkose consisting of gritty quartz (5%) in fg matrix of subangular feldspar (45%), subangular quartz (40%), and biotite (10%).

Drill hole: SL33. Sample No. 288

Location: Phase 3, 100+00W, 63+00S

Classification: Arkose consisting of coarse grit of subangular quartz and feldspar (15%) in a fg matric of quartz (48%), feldspar (25%), biotite (10%), and hornblende (2%).

Drill hole: SL34. Sample No. 291

Location: Phase 3, 100+00W, 34+00S

Classification: Diabase consisting of feldspar and pyroxene. The rock has a diabasic texture.

Drill hole: SL35. Sample No. 294

Location: Phase 3, 100+00W, 6+00S

Classification: Arkose consisting of gritty subangular quartz (20%), coarse sericitic feldspar (10%), fg quartz-feldspar (63%), biotite (5%), magnetite (1%), and pyrite (1%).

DRILLING EQUIPMENT USED ON SAKAMI QUEBEC PROJECT

Bradley Bros. Limited supplied the drilling equipment for bedrock and basal till sampling on the Sakami Quebec Project. The drill is a Longyear E 21928 rotary drill mounted on a boxed-in Nodwell carrier. The combined unit of drill and carrier weighs approximately 20 tons. Circulation for drilling and return of cuttings to the surface is by water forced down the outside of an inner tube, then directed by specially designed tricone bits to flush-out the cuttings and return them up a centre tube. The objective is to obtain continuous overburden samples, with a minimum of in-wash or caving from the sides of the hole, and the completion of a hole with a single run of the rods.

The weight of the machine requires 26 inches of blue ice for insurance purposes, but where no hazard is involved it will operate on about 20 inches of blue ice. The operation of the equipment on the Sakami project was at temperatures of 40 to 50 degrees below zero fahrenheit and on windy lakes and swamps. The floor and walls of the box above the carrier were built in with plywood and about one-third of the roof was blocked-off. A space heater of the type used in construction for drying plaster supplied heat to the interior of the box and used about 30 pounds of propane per day. The Nodwell carrier is diesel-powered and the diesel was left idling when not in use. Difficulties with engine performance, including water pumps and water tanks were minimal during the job. Working inside the boxed-in machine were: A driller and his helper; and three samplers, the writer, Robin Webster of Canadian Nickel Company, Copper Cliff and Manfred Jost of International Nickel, Thompson. Mr. Webster and Dr. Jost were also acting in the capacity of observers.

Drill running time was from 10 to 90 minutes per hole, for an average of 38 minutes. The remainder of the time used up under contract was for mobilization to and from the campsite, between holes, setting-up and breaking down the drill tower; and on land occasionally waiting for water delivery by the water tank vehicle.

Recovery of the samples was good in ice, clay, peat, silt, very compact sand, stony marine clay, and till. It was poor in water, pervious gravel, and pervious sand. Recovery could be improved in gravel and sand by using a mixture of compressed air with the water. During the 38 minutes of drill running time per hole, the samplers took approximately 30 samples, observed geotechnical properties from drilling, identified materials and sampling environments, and rejected all but three samples which represent the favourable prospecting environments. A sampling set placed under the return circulation from the drill, consists of two screens and a bucket. The screens used by the samplers were supplied by H.A. Lee. They are stainless steel, 17 inches in diameter and have openings respectively of 1/4 inch (approximately 6 mm.) and 2 mm. The collecting buckets used were of pliable plastic and worked well. Hard plastic buckets, supplied for the job, split easily under the extreme dry-cold operating conditions. Wet suits and rubber gloves were worn during the sampling. Hard hats are recommended for both samplers and drillers. Extra insulation over the sampler's elbows is needed because of the high activity of sampling under the very cold operating conditions.

The geotechnical properties required for sample and environment identification include: (1) The rates of penetration of the drill and

rods. A freer fall exists for water and soft mud; a slow penetration is in stony marine clay and till; and very slow penetration is in bedrock. (2) The vibration of the drill is low in pervious sand, clay, ice and peat. It is moderately rough in till and bedrock, and it is quite rough in gravels, boulders in till, and at the first penetration of bedrock.

Drilling was carried out from noon on March 1st, 1973 to late afternoon of March 8th for a total of 7½ days. During this time, a footage of 1,498 feet was penetrated. Of this 48.9 feet was bedrock, 280 feet was ice and water, and the remainder of 1,218 feet was unconsolidated materials. A total of 33 holes were drilled for an average of 4.4 holes per day.

Most of the holes were drilled from an ice platform in water depths of 1 to 60 feet. No casing was used in any of the holes, however, at the greatest depth of 60 feet only partial drive could be placed on the rods. Mobility of the drill on the job is about 4 miles per hour. Spruce and jackpine vegetation up to 6 inches in diameter presented no obstacle to trafficability. The trees were "freeze-dried" and snapped off at their base. During drilling-moves the box on the carrier was left in place, but the drill tower was lowered. Because the box projects to one side of the carrier, a "pathway" was cleared for it by the smaller Nodwell carrier with water-tank.

The drilling crew worked hard, showed humour and ingenuity on the job and were responsive to changes recommended by the samplers.

SAKAMI PROJECT

PERMIT AREAS - 547 - 553 INCLUSIVE

REPORT FOR 1973

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Sakami Project

Permit Areas 547 - 553 Inclusive

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Envelope 15	Geology Legend - Zones 1 to 4	
Envelope 16	Induced Polarization Survey Legend	
Appendix A	List of rules for coding or abbreviating Geologic Terms	
	Diamond drill logs for boreholes 55304 to 55338 inclusive	
Appendix B	Compilation Maps for the N.T.S. Sheets	Scale: 1" - 2640'

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33F-2W	33F-9E
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Appendix C	Copy of report by H. A. Lee of Lee Geo-Indicators Limited
	Copy of report by D. S. Robertson and Associates

Sakami Project

Permit Areas 547 - 553 Inclusive

Professional Personnel

Staff Personnel	Degree	University	Title
C. O. Pritchard	BSC	Queen's	Manager, North America
J. A. Sauerbrei	MSC	Queen's	Supervising Staff Geologist
B. R. Krause	MA	Toronto	Exploration Geophysics Manager
Project Manager			
H. F. Stewart	BSC	Manitoba	Exploration Operations Manager, North America
Project Supervisor			
W. M. Atkins	BSC	McGill	Area Geologist
Field Geologists			
B. Aaquist	BSC	Alberta	Geologist
D. Goodale	BSC	McMaster	Geologist
E. Debicki	BSC	McMaster	Geologist
R. Jamieson	BSC	New Brunswick	Geologist
B. Yuriy	BSC	Brandon	Geologist
Field Geophysicist			
J. S. Johnson	MSC	Dalhousie	Geophysicist

Introduction

A joint venture agreement was established in July 1972, between the James Bay Development Corporation and the Canadian Nickel Company. This agreement continued during 1973, and covered exploration within seven permit areas 547 to 553 inclusive. In 1972, the total permit area comprised 934 square miles; this area was reduced to 217 square miles in July 1973. 974

Field operations commenced January 3, and continued to April 14th. Following spring break-up the summer field program got underway June 1 and ran to September 9. From the Sakami field base a program of electromagnetic, magnetic and induced polarization geophysical surveys, geologic mapping, diamond drilling and basal till - bedrock sampling was undertaken.

Exploration Program

Base Metal Exploration

For base metal mineral exploration a rapid, regional ground geophysical and geologic investigation was undertaken initially, to establish the significance of airborne electromagnetic responses located in the areas covered by Sakami Lake, or underlain by projected sediments. Following the reduction of the size of the permit area to 217 square miles emphasis was placed on regional and detailed geologic mapping, as well as ground electromagnetic, magnetic geophysical surveys over airborne electromagnetic responses in areas of projected volcanic rocks. Diamond drilling of interesting, but unexplained, electromagnetic conductors was accomplished by two Winkie drills operated by Canico personnel during the summer months, and by one B.B.S.I. drill unit under contract with Inspiration Drilling during the winter field season.

Detailed reconnaissance geologic mapping was completed in the northern portion of the Sakami Lake area. The mapping program was designed to provide additional data for the continuing evaluation of the base metal potential in this area; as well as to determine the probability of the uraniferous quartz pebble conglomerates of zone 1 to 4 extending to, or reoccurring in, the northern section of Sakami Lake.

Uranium Exploration Zones 1 - 4; Permits 547 - 548

Uranium exploration continued in the Sakami zones 1 to 4 area, of permits 547 - 548, where previous seasons exploration had located subeconomic uranium values in quartz pebble conglomerates. To define the extent of the quartzites and locate possible additional uraniferous quartz pebble conglomerate bands in areas of deep overburden, a programme of basal till - bedrock sampling was undertaken east, west and south of the main occurrence in zone 1 and 2. This drilling was accomplished with a continuous circulation sampling unit under contract with Bradley Drilling.

Because of the relatively high pyrite content in the quartz pebble conglomerates, an induced polarization survey was completed in zone 3 and 4 in an attempt to locate possible additional interesting uranium bearing horizons. Further electromagnetic and magnetic ground surveys were completed in zones 1 - 4 to provide interpretative data.

Sectional diamond drilling was undertaken along the five mile strike length of the conglomerate close to the quartzite - "basement" contact. In zone 3 and 4 three induced polarization anomalies were drilled, and an attempt was made to drill across one section. The diamond drilling was accomplished with two B.B.S. units under contract, with Inspiration Drilling and one Canico Winkie unit.

General

A total of 14,713 feet of diamond drilling was completed to September 9. This included 1,249 feet of drilling by Canico Winkie in 10 holes and 13,464 feet by Inspiration Drilling B.B.S. machines in 25 holes. Some 1,498 feet of basal till bedrock sampling was completed in 33 holes by Bradley Drilling.

As of September 9, a total of 3,315 man days had been spent by Canico personnel on the ground follow-up phase of the programme.

Exploration Results

Maps at a scale of 1 inch to 1/2 mile are presented in Appendix B. These show the compilation of airborne electromagnetic and magnetic responses, geophysical ground investigation, geologic mapping and borehole locations. In the zone 1 to 4 area 1 inch to 200 foot scale maps of electromagnetic, magnetic, and induced polarization survey results, as well as geologic mapping, diamond drill surface projections and basal till bedrock sampling results are submitted.

Appendix C contains geologic reports covering Sakami Zones 1 to 4 by consultants H. A. Lee of Lee Geo-Indicators and D. S. Robertson of D. S. Robertson and Associates. Borehole logs for all diamond drilling are presented in Appendix A.

Base Metal Exploration

Ground Investigation of Airborne Responses

The ground electromagnetic, magnetic, geologic grid mapping and conductor sampling program covered some 177 airborne electromagnetic responses during the 1973 field seasons. With few exceptions the electromagnetic anomalous zones located in lake covered areas have been

interpreted as representing conductive clays and/or shear zones with local magnetic sands. Those conductors associated with bedrock features were found to be associated with iron formation and graphite in sediments and/or sediments with intermediate to basic volcanic flow rocks. Results are summarized in Table I.

Diamond Drilling

A total of 4,870 feet in nineteen holes was drilled on electromagnetic targets to test for economic sulphide mineralization. Drilling results are listed in Table II. Of the nineteen holes, four were abandoned in overburden, and six were drilled in conductive overburden anomalous zones. Borehole 55304, Permit 550, intersected several narrow zones of zinc lead mineralization in sediments.

The remaining seven holes were drilled on conductors in areas of projected volcanic rocks. No significant occurrences of economic sulphide mineralization were intersected. Sulphide facies iron formation, pyrite and pyrrhotite, were intersected in all seven holes. The sulphides occur in graphitic sediments locally interbanded with intermediate volcanics.

Regional Reconnaissance Mapping

The detailed reconnaissance geologic mapping in the northern portion of Sakami Lake and in the conductive areas of permits 550 and 551 was completed. Essentially, mapping indicates that the intermediate to basic volcanics which occur along the west side of Sakami Lake are overlain to the east by a narrow zone of exhalative sulphide and oxide facies iron formation. The exhalatives are intercalated with poorly sorted, locally graphitic sediments interbanded with intermediate to acid crystal tuffs and basic to intermediate volcanics. Overlying the exhalative zone is a thick sequence of biotite arkoses and quartzites which grade to the east into clean or biotite free interbanded arkose and quartzite. The clean quartzite and arkose is localized along a north-south trending zone in the area of the zinc mineralization intersected during the 1973 winter program in borehole 55304, anomaly 33F-7W number 82 permit 550. The mapping results also indicate that the quartz pebble conglomerates of Zone 1 to 4 do not extend to, or reoccur in the north Sakami Area.

Uranium Exploration Zones 1-4 Permits 547-548

Induced Polarization Survey Zones 3 & 4

The induced polarization survey over zones 3 and 4 indicated 15 anomalies. Diamond drilling has explained or partially explained five of these anomalies. Three of the drilled anomalies are due to pyrite in quartz pebble conglomerate, two are over pyrite in sediments and volcanics. Interpretation of data indicates three of the remaining ten anomalies are related to bedrock topography changes, while one is closely associated with a magnetic trend.

Table III summarizes the survey results.

Electromagnetic and Magnetic Ground Survey

For interpretation of structures as well as induced polarization survey data the electromagnetic and magnetic survey initiated in 1972 were completed. Several zones of ultramafic and iron formation were outlined.

Diamond Drilling

The zone 1-4 area was tested with three Winkie and thirteen B.B.S. holes for a total of 9,843 feet. Table IV summarizes the drill production with borehole locations.

In zone 3 and 4, drilling on 3,200 foot sections was designed to test the known horizon of uraniferous quartz pebble conglomerate at the 300 foot level. An attempt was made to drill across section from north to south on section 6000 west with three diamond drill holes, however, all three holes were abandoned in overburden. Three diamond drill holes were drilled into induced polarization anomalies.

Resulting of the drilling in six boreholes in zone 3 and 4 were not encouraging, with only narrow low grade intersections of uranium encountered in quartz pebble conglomerates or, as in one case, graywacke. The induced polarization highs were found to be associated with pyrite, and in one case magnetite, in sedimentary and volcanic rocks.

In zone 1 and 2, sectional drilling at 1,600 foot intervals in the central portion and 3,200 foot intervals at the eastern end was designed to test the projected extension of uraniferous quartz pebble conglomerates east and west of the main uranium occurrence centered at 4,000 west at 300 foot level. Several narrow intersections of uraniferous conglomerate were cored in borehole 55322 on section 2400 west. Values ranged from 0.05 to 0.20 U_3O_8. Only minor radioactive mineralization was located in the other three diamond drill holes.

Basal Till-Bedrock Sampling

The basal till-bedrock sampling survey was conducted to the immediate east and west of the main zone 1-2 occurrence, as well as to the south of this zone in permit 548. Bedrock and basal till were sampled where possible in all holes. Some 1,498 feet of drilling in 33 holes was completed.

Results indicate that the quartzite, uraniferous quartz pebble conglomerate-ultramafic zone does not extend appreciably beyond the 1972 interpreted limits, and that the area to the south of this zone consists mainly of arkose. Table V summarizes the results.

Future Program

With portions of the zone 1-2 uranium occurrence still untested, further diamond drilling will be required to assess the economic potential of this area.

The untested magnetic, electromagnetic responses as well as the zinc mineralization on anomaly 33F-7E number 82, permit 550, in North Sakami Lake will be diamond drilled to obtain further information in the assessment of the present area.

Table I

Summary of Ground Geophysical, Geological A.E.M. Anomaly Investigation

Response	Geophysical Results	Remarks
Permit 547 N.T.S. 33F-2W		
48	Weak conductor, flat magnetics	Drilling not recommended. (D.N.R.) possible lake bottom or shear.
49	Weak conductor, flat mag.	DNR, poss. lake bottom or shear.
50	Not located.	No further work (NFW)
56	Two conductors located, one strong conductor with mag. assoc., one weak conductor with flat mag.	NFW; MVW py, po; banded magnetite I.F. arkose and cherty quartzite.
60	Weak conductor, flat mag.	DNR, poss. lake bottom.
62 & 53	Four medium conductors, some mag. assoc.	Drilled - Boreholes 55311, 55312
65	Same conductor as 33F-3E, 44 & 45	N.F.W.
67	Three strong magnetic conductors	Drilled - BH 55314
69	Two med.- strong conductors local mag. assoc.	Drilled BH 55315, south conductor
63	Med.-strong conductor, flat mag.	Drilled BH 55313

Table I (Cont'd)

Response	Geophysical Results	Remarks
Permit 547 N.T.S. 33F-3E		
28	Three weak conductors, broad mag. zone.	Poss. drill
29 & 42	Two medium conductors in broad erratic, mag. zone, low freq. E.M. eliminated strong conductor.	N.F.W., shear type conductor
28 W.	Three weak-medium conductors, broad erratic mag., similar to 28. North conductor (poorest) eliminated with low freq. E.M.	N.F.W. shear type conductor
36	Short weak conductor; sporatic high magnetics	N.F.W.; M; aresenopyrite, magnetite isolated patches in orthoamphibolite.
38 & 43	Weak conductor, flat magnetics	N.F.S.; area of paragneiss and granite
41	Two weak-medium conductors, mag. assoc. broad	Of further interest (O.F.I.) poss. drill
44 & 45	Weak disjoined conductor, local weak magnetic build up	N.F.W. area of granite with metamorphosed sediment enclaves
Feeder Dyke	Highly magnetic, no conductivity located	O.F.I. low, area of projected ultramafics
51	Not located	N.F.W.
Permit 548 N.T.S. 33F-2W		
1 A	Not located	No further interest (N.F.I.)
6	Not located	N.F.W.
13	Three weak-medium conductors, flat mag.	D.N.R. poss. lake bottom or shear
17	Weak-medium conductor, weak mag.	N.F.W. poss. shear
11	Weak conductor, flat mag.	D.N.R., poss. lake bottom

Table I (Cont'd)

Response	Geophysical Results	Remarks
14	Medium conductor, weak mag. build up	N.F.W., poss. lake bottom
15 & 16	Med. conductor, sporatic mag. assoc.	D.N.R. lake bottom conductor
18	Not located	N.F.W.
27	Wk. conductor, flat mag.	D.N.R. poss. lake bottom
30	Three wk.-medium conductors, flat mag.	D.N.R., poss. shear or lake bottom
34	Not located	N.F.W.
36	Not located	N.F.W.
45	Wk. non-mag. conductor	D.N.R., poss. lake bottom
46	Three wk.-medium conductors, flat mag.	D.N.R., poss. lake bottom
47 S	Wk. conductive zone, flat mag.	D.N.R., poss. lake bottom
47	Not located	N.F.W.
59 E	Four strong conductors, one wk.-med. conductors, poss. extension Anom. 20 and 21.	O.F.I. - immediately north of zone 1 and 2, poss. I.F.
59 W	Not located	N.F.W.
68	Wk.-med. conductor partial mag. build up	D.N.R. area of sediments
68 & 40	Wk. conductor, flat mag.	D.N.R. poss. lake bottom
70	Two short, strong conductors, mag. assoc.	N.F.W.; MVW-MW py, graphite magnetite in highly metamorphosed arkose, graywacke, amphibolite
71	Not located	N.F.W.
72	Med. conductor, flat mag.	D.N.R. poss. shear

Table I (Cont'd)

Response	Geophysical Results	Remarks
Permit 548 N.T.S. 33F-2W		
78	Short med. conductor, mag. assoc.	N.F.W. MVW, py graphite in arkose
75	Two wk. med. conductors, flat mag.	D.N.R., poss. lake bottom
77	Not located	N.F.W.
78 E	Not located	N.F.W.
79 & 80	Two conductors located. One strong mag. conductor, one wk. conductor, flat mag.	N.F.W. - I.F. and poss. lake bottom (Sakami zone 1 & 2)
84 W & E	Sakami Detail	N.F.W., poss. lake bottom
87	Not located	N.F.W.
88	Med. conductor, 800 ft., mag. assoc.	N.F.W., graphite in arkose
91	Not located	N.F.W.
Permit 548 N.T.S. 33D-2E		
11	Med. conductor, wk. mag. 300 cycle E.M.indicates conductor valid	Poss. drill
Permit 548 N.T.S. 33F-3E		
13	Not located	N.F.I.
Permit 548 N.T.S. 33F-7W		
8	Four wk. conductors, flat mag.	D.N.R. poss. lake bottom
Permit 548 N.T.S. 33F-7W		
16	Three med. strong magnetic conductors	N.F.W. banded magnetite I.F. in arkose; basic volcanics
21	Wk. med. conductor, flat mag.	D.N.R.; lake bottom

Table I (Cont'd)

Response	Geophysical Results	Remarks
Permit 548 N.T.S. 33F-7W		
24 & 25	Two conductors, one wk., one med. flat mag.	D.N.R., lake bottom and shear.
30 & 31	Two med. to strong conductors; one with local magnetic association	N.F.W.; MVVW po; graphite in arkose, graywacke, basic volcanic
32	Strong conductor, flat mag.	D.N.R., poss. lake bottom and shear.
39	Med.-strong magnetic conductor	N.F.W., banded magnetite I.F., in quartzite, arkose, basic volcanics
43	Short weak to med. conductor flat mag.	N.F.W., graphite & pyrite
34	Wk. conductor, flat mag.	D.N.R., lake bottom
Permit 549 N.T.S. 33F-7E		
11 & 78	Strong conductor, flat mag.	N.F.W., MW., py, graphite disseminated magnetite, arkose
49	Med.-strong conductor wk., broad mag.	D.N.R., poss. shear
51	Wk. conductor, flat mag.	D.N.R., poss. lake bottom
54	Strong conductor, broad wk. mag.	D.N.R., lake bottom conductor
63	Wk.-med. conductor, flat mag.	O.F.I. (low)
36	Strong med. conductor, flat mag.	D.N.R., poss. shear and lake bottom
74	Two wk. conductors, flat mag.	D.N.R., poss. lake bottom
77	Four wk.-med. conductors, flat mag.	D.N.R., poss. lake bottom
89	Two strong conductors; one locally mag., one weak conductor, flat mag.	N.F.W., on strike with 33F-7E-56 (MVW-MW py po; magnetite, graphite) in area of andesite.

Table I (Cont'd)

Response	Geophysical Results	Remarks
Permit 549 N.T.S. 33F-7W		
3	Three strong, one weak, locally highly mag. conductors	N.F.W., MVVW py; graphite banded magnetite I.F., arkose, argillite minor basic volcanics
Permit 550 N.T.S. 33F-7E		
8	Two strong conductors, one conductor with mag. assoc.	N.F.W., 2 conductors; east conductor graphite & magnetite; arkose, graywacke, siliceous sediments, west conductor - drilled BH 55333
14,15,18	Three med. conductors, one with wk. mag. assoc.	Drilled BH 55308
16	Two wk.-med. conductors, flat mag.	D.N.R., poss. lake bottom or shear
17 & 19	Two wk. and one med. conductors with broad wk. mag.	D.N.R., poss. lake bottom or shear.
19	Two med. conductors, flat mag.	D.N.R., poss. lake bottom
20	Two med.-strong conductors, erratic mag. anomalies	N.F.W., poss. lake bottom
21 & 22	Five short med. conductors, flat mag.	D.N.R., poss. lake bottom
23	Not located	N.F.W.
24	Broad wk.-med. conductive zone, flat mag.	D.N.R., poss. lake bottom
25 & 83	Two med. conductors, flat mag.	D.N.R., poss. lake bottom
27	Wk. Conductor, flat mag.	D.N.R., poss. lake bottom
28	Four med. conductors, sporadic mag. highs	Drilled BH 55307
35	Wk.-med. conductor, flat mag.	D.N.R., poss. lake bottom
37 & 38	Four wk.-med. conductors, one wk. conductor, flat mag.	D.N.R., poss. lake bottom
39	Wk.-med. conductor, flat mag.	D.N.R., poss. lake bottom

Table I (Cont'd)

Response	Geophysical Results	Remarks
Permit 550 N.T.S. 33F-7E		
40	Two wk.-med. conductors, flat mag.	D.N.R., poss. lake bottom
44	Strong conductor, flat mag.	D.N.R., poss shear
47	Two med. conductors, flat mag.	D.N.R., poss. lake bottom
48	Med.-strong conductor, flat mag.	D.N.R., poss. shear
50	Wk. conductor, flat mag.	D.N.R., lake bottom
56	Strong conductor, local mag. assoc.	N.F.W., MVW-MW py, po minor magnetite, graphite; arkose basic volcanics
73	Two strong conductors, wk. broad mag.	Drilled, BH 55305, 55306, on north conductor
82	Two med. conductors, erratic mag. highs	Drilled, BH 55304
Permit 550 N.T.S. 33F-8W		
9 & 11	Three med. conductors, north conductor with wk. mag. assoc.	Drilled north conductor BH 55310
10	Wk. conductor, flat mag.	D.N.R., poss. lake bottom
11 S	Wk.-med. conductor, flat mag.	D.N.R., poss. lake bottom
13	Two med. conductors, wk. mag. assoc. west conductor	Drilled, BH 55309, west conductor poss. lake bottom
14	Two wk. conductors, flat mag.	D.N.R., poss. lake bottom conductor.
34 A	Two med. conductors, flat mag.	D.N.R., poss. lake bottom conductor
41	Five wk.-med. conductors, main conductor with wk. mag. assoc.	D.N.R., poss. lake bottom
43 W	Two med. converging conductors, flat mag.	D.N.R., lake bottom conductor
53	Not located	N.F.W.
54	Not located	N.F.W.
54 E	Three short wk. conductors, flat mag.	D.N.R., poss. lake bottom conductor

Table I (Cont'd)

Response	Geophysical Results	Remarks
Permit 550 N.T.S. 33F-9W		
35 & 36	Two strong locally magnetic conductors one weak conductor, flat magnetics	N.F.W., drilled BH 55331 other conductors, MVW py, po, graphite, magnetite I.F., andesite
Permit 550 N.T.S. 33F-10E		
6 & 10	Two wk.-med. conductors flat mag.	D.N.R., poss. shear or lake bottom
8	Wk. conductor, flat mag.	D.N.R., poss. shear or lake bottom
85	Two conductors, one wk. conductor mag. assoc., one med. conductor, flat mag.	D.N.R., poss. lake bottom and shear with I.F.
Permit 551 N.T.S. 33F-8W		
3	Three weak conductors, flat mag.	N.F.W., area of granite
4 & 44	Five weak to med. conductors, flat mag. conductor strength reduced 50 percent with 300 Hz unit	N.F.W., possible shears, granites in area
5	Conductor not located	N.F.I.
Permit 551 N.T.S. 33F-9E		
29	Weak to medium conductor, flat mag.	D.N.R., area of projected sediments
31, 32, 38, 39	Three med. to strong conductors two with local mag. association	N.F.W., two magnetic conductors drilled BH's 55324; 55326 other conductor graphite, arkose, argillite
40, 44, 51, 54	Three med. to strong conductors flat magnetics	N.F.W., drilled one conductor BH's 55328, 55330
45, 48 B	Med. to strong conductor, local magnetic association	N.F.W., graphite magnetite, banded magnetite I.F., arkose, argillite

Table I (Cont'd)

Response	Geophysical Results	Remarks
Permit 551 N.T.S. 33F-9W		
6	Three conductors, located with broadside E.M.	N.F.W., MVVW py, banded iron formation, intermediate volcanics
9	Med.-strong conductor, flat mag.	D.N.R., poss. lake bottom
10 & 80	Two med. conductors, north conductor with mag. assoc.	O.F.I., poss. valid conductor
13 & 78	Two wk.-med. conductors, flat mag.	D.N.R., poss. lake bottom
13	Two med. conductors, flat mag.	D.N.R., poss. lake bottom
14	Wk. conductor, flat mag.	D.N.R., poss. shear
16	Wk. conductor, flat mag.	D.N.R., poss. lake bottom
18	Two wk. conductors, flat mag.	D.N.R., poss. lake bottom
27	Two med. conductors, one with local magnetics	N.F.W., magnetic conductor drilled BH 55332
33 A	Med. to strong magnetic conductor	N.F.W., MVW po, graphite, intermediate volcanics
46 & 86	Four med. conductors, main conductor with wk. mag. build up.	D.N.R., poss. lake bottom
61	One med., one strong, magnetic conductor	N.F.W., banded magnetic I.F., basic volcanics
66	Two wk.-med. conductors, flat mag.	D.N.R., poss. lake bottom
68	Not located	N.F.W., area of high hills
69	Not located	N.F.W., area of andesite-dacite minor tuff, cliff face near response.
70	Not located	N.F.W., area of andesite to dacite, tuff with interbanded magnetite I.F.
Permit 553 33G-12W		
30 & 45	Not located	N.F.W.

Table II

Base Metal Exploration

Diamond Drill Results

B.H. No.	N.T.S.	Anom.	Co-ords.	Depth	Results
Permit 547					
55311	33F-2W	53	7+45N, 24+00W	170.0	Abandoned in overburden
55312	33F-2W	53	7+95N, 24+00W	260.0	Abandoned in OB
55313	33F-2W	63	2+75N, 4+00W	281.0	Abandoned in OB
55314	33F-2W	67	4+10N, 8+00E	515.0	MVW-MW po, py graph in metased
55315	33F-2W	69	9+10S, 8+00W	234.0	MVW-MW po, py graph in metased
				1,460.0	
Permit 550					
55304	33F-7E	82	16+00S, 0+18E	397.0	Metased, MVVW-MVW, po, py, Minor Zn , Pb
55305	33F-7E	73	1+75S, 0+00	382.0	Metased - drilled down dip
55306	33F-7E	73	1+25N, 0+00	267.0	Metased - conductive OB
55307	33F-7E	28	1+40S, 11+00W	331.0	Metased - conductive OB
55308	33F-7E	14,15,18	4+90N, 20+00E	329.0	Metased - conductive OB
55309	33F-8W	13	8+00N, 4+00W	416.0	Metased - conductive OB
55310	33F-8W	9 & 11	8+00N, 4+00W	298.0	Metased - conductive OB
55332	33F-9W	27	8+00E, 5+40N	62.0	MVW-MW; py, po; graph parashist; arkose
55333	33F-7E	8	4+00N, 3+80W	191.0	MVW-MW; py, po graph andesite; argillite, arkose, graywacke
				2,673.0	

B.H. No.	N.T.S.	Anom.	Co-ords.	Depth	Results
Permit 551					
55324	33F-9E	32 - 48	8+00E, 0+95N	106.0	MVW-MW; py, po, graph meta arkose, argillite
55326	33F-9E,	32 - 48	15+00E, 3+90S	197.0	MVW-M py, po, graph andesite, graywacke, argillite, arkose
55328	33F-9E	40,51,54	12+00W, 6+45S	97.0	Abandoned
55330	33F-9E	40,51,54	12+00W, 6+20S	179.0	MVW-MW py, po, andesite argillite, skarn
55331	33F-9W	35, 36	0+25W, 0+40N	158.0	MVW-MW-py, po, graph. Minor Zn Pb. Andesite, amphibolite, tuffaceous metased
				737.0	

Table III

Summary of Induced Polarization Results

Anomaly	Results	Remarks
Permit 547-548		
A	Two chargeability peaks within the anomaly sub-parallel to a magnetic high to the south (UM)	Of further interest, low, drilled BH's 49876, (MVW py in conglomerate) 55325, 55329 (MVVW py in quartzite)
B	One station anomaly, falls on flank of magnetic anomaly	NFI, drilled BH 55325, (MVW po, py amphibolite)
C	Strong chargeability, high resistivity, correlates with narrow magnetic trend	NFI
D	High resistivity, no magnetics	Drilling not recommended possible bedrock topography
E	Local chargeability high, high resistivity	O.F.I. very low
F	Broad complex, chargeability highs north of magnetic features, characterized by resistivity depression, non-conductive E.M.	Drilling recommended
G	High chargeability, high resistivity	N.F.I., poss. bedrock topography
H	High chargeability, correlated resistivity	N.F.I., poss. bedrock topography
I	Subtle anomaly, partial correlation with magnetic trends	Low priority drill
J	Complex on north margin	O.F.I., low, BH 49881 MVW-MVVW po, py, massive sulphides, geology
K	Bifurcated; local chargeability highs correlate with resistivity highs	Low priority drill, drilled BH 55321, MVW py arkose, rhyolite
L	Complex, chargeability correlates with moderate resistivity, some magnetic relief over western end	D.N.R., drilled BH 49869, MVW py in uraniferous conglomerate in western end; BH 55316 eastern end - no explanation

Table III (Cont'd)

Anomaly	Results	Remarks
M	Related to J	Drilled western end BH 49896 MW-MVVW py in quartzite and conglomerate eastern end I.F.
N	Short anomaly open to west	BH 49866 undercuts northern edge.
O	Moderate to low resistivity, lies on north flank of moderate magnetic trend	Low priority drill.

Table IV

Diamond Drill Production - Sakami Zone 1 to 4

Permit 547-548

B.H. No.	Zone	Permit	Co-ordinates	Depth	Drill Type
55316	3	548	9+20S, 8+00E	577.0	BBS-3
55317	2	548	18+00N, 56+00W	1,175.0	BBS-3
55318	3	547	2+40N, 92+00W	719.0	BBS-1
55319	3	548	31+20S, 0+00	15.0	Winkie
55320	3	548	31+20S, 0+00	35.0	Winkie
55321	3	548	31+20S, 0+00	209.0	Winkie
55322	2	548	10+20N, 24+00W	1,191.0	BBS-3
55323	3	547	6+50S, 124+00W	700.0	BBS-1
55325	4	547	22+60S, 156+00W	729.0	BBS-1
55327	1 & 2	548	2+50N, 8+00E	1,182.0	BBS-3
55329	4	547	18+00S, 140+00W	763.0	BBS-1
55334	3	548	4+15S, 28+00W	755.0	BBS-1
55335	1	548	4+00S, 40+00E	1,011.0	BBS-1
55336	3	547	10+00S, 60+00W	219.0	BBS-1
55337	3	547	10+00S, 60+00W	317.0	BBS-1
55338	3	547	15+00S, 60+00W	246.0	BBS-1
			TOTAL:	9,843.0	

Table V

Basal Till, Bedrock, Sampling Project

Permit 548 N.T.S. 33F-2W

B.H.	Co-ords.	Depth	Bed-rock	O.B.	Ice & Water	Bedrock Geology	Basal Till Percent Quartzite Clasts	Basal Till Heavy Mineral Concentrate Flourimetry U_3O_8- P.P.M.	Bedrock Flourimetry U_3O_8- P.P.M.	Zone
S1 1	82+00W, 25+50N	35.0	1.0	32.0	2.0	Quartzite with sulp			0.1	2
S1 2	82+00W, 21+50N	31.0	1.0	28.0	2.0	Trem-carb U.M. alt.				2
S1 3	82+00W, 17+50N	39.5	1.0	36.5	2.0	Diabase	6.8	0.2		2
S1 3A	82+00W, 19+50N	13.0	1.0	10.0	2.0	Quartzite, py				2
S1 4	82+00W, 13+50N	58.0	1.0	55.0	2.0	Quartzite		0.6	1.7	2
S1 5	82+00W, 9+50N	37.0	1.0	34.0	2.0	Quartzite, fine sulp			0.8	2
S1 5A	82+00W, 9+45N	34.0	1.0	31.0	2.0	Quartzite, fine sulp		0.8		2
S1 6	92+00W, 13+50N	64.0	2.0	60.0	2.0	UM., Alt'd, minor sulp	2.4	0.3		2
S1 7	92+00W, 17+50N	37.0	2.0	29.5	5.5	Serpentinite	2.4	0.5		2
S1 8	92+00W, 21+50N	33.0	2.0	27.0	4.0	Diabase	4.9	0.1	0.1	2
S1 9	102+00W, 21+50N	64.0	2.0	58.0	4.0	UM. - Talc carb	6.7	0.4		2
S1 10	102+00W, 16+50N	67.0	1.0	64.0	2.0	Quartzite	16.7	0.1	0.1	2

Table V (Cont'd)

B.H.	Co-ords.	Depth	Bed-rock	O.B.	Ice & Water	Bedrock Geology	Basal Till Percent Quartzite Clasts	Basal Till Heavy Mineral Concentrate Flourimetry U_3O_8- P.P.M.	Bedrock Flourimetry U_3O_8- P.P.M.	Zone
S1 11	22+00E, 7+80S	48.0	2.0	46.0	-	Quartzite intrb'd with amph		0.4	0.4	1E
S1 12	32+11E, 8+00S	36.0	2.0	34.0	-	Argillite	2.3	0.1	0.1	1E
S1 13	32+00E, 20+00S	65.0	2.0	63.0	-	Argillite	0.5		0.6	1E
S1 14	32+00E, 32+23S	16.0	1.0	15.0	-	Arkose		0.5		1E
S1 15	52+00E, 8+00S	14.0	0.5	11.5	3.0	Quartzite	7.8	2.1	2.8	1E
S1 16	52+00E, 23+00S	5.4	2.0	3.0	-	Amphibolite, v.f.g.				1E
S1 17	52+00E, 32+ooS	80.0	3.5	76.5	-	Argillaceous quartzite		0.6		1E
S1 19	76+00E, 20+00S	81.0	2.0	19.0	60.0	Arkose			1.0	1E
S1 20	76+00E, 8+00S	28.0	1.0	2.0	25.0	Arkose				1E
S1 21	100+00E, 8+00S	31.0	2.0	0.0	29.0	Arkose				1E
S1 22	100+00E, 20+00S	46.0	1.0	4.0	40.0	Amphibolite				1E
S1 26	100+00E, 4+00N	79.5	1.0	68.5	10.0	Meta Andesite	1.7	0.2		1E
S1 27	76+00E, 2+00S	76.0	1.0	30.0	40.0	Arkose	4.2	1.2		1E
S1 28	64+00E, 8+03S	54.0	1.0	13.0	40.0	Arkose, py, po?	0.9	1.1		1E
S1 29	22+00E, 66+00S	131.0	1.4	129.6	-	Para gneiss	2.1			1S
S1 30	22+00E, 54+00S	40.0	1.0	39.0	-	Arkose		0.5		1S

Table V (Cont'd)

B.H.	Co-ords.	Depth	Bed-rock	O.B.	Ice & Water	Bedrock Geology	Basal Till Percent Quartzite Clasts	Basal Till Heavy Mineral Concentrate Flourimetry U_3O_8-P.P.M.	Bedrock Flourimetry U_3O_8-P.P.M.	Zone
S1 31	93+00W, 124+50S	16.0	1.0	15.0	-	Metagabbro or diab., py				2S
S1 32	100+00W, 93+50S	43.0	3.0	40.0	-	Arkose		0.8		2S
S1 33	100+00W, 63+00S	52.0	3.0	49.0	-	Arkose	3.3	0.3		2S
S1 34	100+00W, 34+00S	28.0	1.0	27.0	-	Diabase	4.6	0.2		2S
S1 35	100+00W, 6+00S	16.0	0.5	15.5	-	Arkose	6.6	4.0		2S
	TOTAL:	1,498.0								

W. M. Wilkinson

EXPENDITURES - 1973 - PERMITS 547 - 553

	Permit 547	Permit 548	Permit 549	Permit 550	Permit 551	Permit 552	Permit 553	Totals
Contract Drilling	67,684.54	41,247.53	-	12,267.86	-	-	-	121,199.93
Contract Drilling - Transportation	4,712.42	14,671.60	-	10,148.29	611.67	-	-	30,143.98
Canico Drilling	1,312.53	1,189.32	-	1,916.55	7,450.21	-	-	11,868.61
Canico Drilling - Transportation	295.47	359.66	-	2,120.36	3,640.37	-	-	6,415.86
Salaries & Benefits - Professional	5,468.67	25,006.78	487.54	6,530.91	2,000.23	-	-	39,494.13
- Non-Professional	3,433.28	57,105.96	2,292.74	25,681.35	8,001.76	2,501.98	-	99,017.07
Material, Equip. & Supplies	2,337.30	31,632.17	36.48	8,284.50	1,941.44	-	-	44,231.89
Transp. - Personnel, Equip. & Supplies	15,895.36	87,062.31	1,950.30	14,867.45	11,618.08	-	2,703.28	134,096.78
Airborne Surveys	-	434.69	-	-	-	-	-	434.69
Contract Services	906.00	28,036.16	-	-	-	-	-	28,942.16
Consultant Fees	178.56	178.55	178.55	178.55	178.55	178.55	178.56	1,249.87
Assay Charges	1,314.19	2,569.99	-	476.00	338.00	-	-	4,698.18
TOTAL:	103,538.32	289,494.72	4,945.61	82,471.82	35,780.31	2,680.53	2,881.84	521,793.15

ABBREVIATIONS FOR USE

IN LOGGING BORE HOLES

ABUNDANT	ABNT
ACCESSORY	ASSR
ACID DYKE	ACDK
ACICULAR	ACLR
ACIDIC	AC
ACID HORNFELS	ACHF
ACTINOLITE	ACT
ACTINOLITIC	ACTC
AGGLOMERATE	AGLM
ALBITIZATION	ALBZ
ALASKITE	ALSK
ALTERATION	ALTN
ALTERED	ALTD
ALTERNATING	ALR
AMORPHOUS	AMRP
AMOUNT	AMT
AMPHIBOLE	AMPB
AMPHIBOLITE	AMPH
AMPHIBOLITIC	AMPC
AMYGDALOIDAL	AMYG
AMYGDULE	AMGD
ANDESITE	ANDS
ANGULAR	AGLR
ANHEDRAL	ADRL
ANORTHOSITE	AN
ANORTHOSITIC	ANIC
ANORTHOPHYLLITE	ANPL
APHANITIC	APNC
APLITE	APL
APLITIC	APLC
APPEARANCE	APRC
APPROXIMATE	APRX
ARGILLACEOUS	AGLC
ARKOSE	ARK
ARSENIDE	ARSD
ASBESTOS	AB
ATTITUDE	ATID
ATTENUATED	ATND
AUGEN	AGN

BAND	BND
BANDED	BNDD
BANDS	BNDS
BARREN	BRN
BASAL	BSL
BASALT	BSLT
BASIC DYKE	BCDK
BASIC HORNFELS	BAHF
BEARING	BRG
BECOMING	BCMG
BED	BD
BEDDING	BDG
BIOTITE	BIOT
BLACK	BK
BLEBS	BLBS
BLEBY	BLBY
BLOCKY	BCKY
BLOTCHY GABBRO	BGAB
BORNITE	BN
BOULDER	BLDR
BOULDERS	BLDS
BREAK	BRK
BRECCIA	BX
BRECCIATED	BXTD
BRECCIA MATRIX	BXMX
BRECCIA SULPHIDE	BXSU
BRITTLE	BRTL
BROWN	BRWN

CALCAREOUS	CLCR
CALCIC	CLC
CALCITE	CALC
CARBONATE	CARB
CARBONATED	CRBD
CARBONATE ROCK	CBRK
CARBONATITE	CBNT
CASING	CAS
CAVITIES	CVTS
CEMENTED	CMTD
CHALCOPYRITE	CP
CHERT	CHRT
CHERTY	CHTY
CHICKEN - TRACK	CKTK
CHILLED	CHLD

CHLORITE	CHL
CHLORITIC	CHLC
CLASTS	CLTS
CLEAVAGE	CLVG
CLUSTER	CLSR
COARSE GRAINED	CG
COARSER	CRSR
COMPLEX	CPLX
COMPOSED	CMPD
COMPOSITION	CPSN
CONCENTRATION	CCTN
CONCHOIDAL	CNDL
CONCORDANT	CCRD
CONCRETION	CRTN
CONDUCTOR	CDCR
CONDUCTIVE	CDCV
CONFORMABLE	CFMB
CONGLOMERATE	CONG
CONSTITUENT	CONS
CONTACT	CT
LOWER CONTACT	LCT
UPPER CONTACT	UCT
CONTENT	CNTN
CONTORTED	CNRD
CORE	CORE
CRUSHED CORE	CC
BROKEN CORE	BC
GROUND CORE	GC
LOST CORE	LC
CORONA	CRN
COUNTRY ROCK	CTRK
CRINKLES	CNKS
CROSS BEDS	XBDS
CROSS BEDED	XBDD
CROSS BEDDING	XBDG
CROSS CUTTING	XCTG
CROSSFIBER	CSFB
CRYSTAL	XTL
CRYSTALS	XTLS
CRYSTALLINE LIMESTONE	XLLS
CUBANITE	CUB

DACITE	DCT
DARK	DK
DECREASE	DCRS
DECREASING	DCRG
DEGREE	DEG
DENSE	DS
DEPOSITION	DPSN
DEPOSITIONAL	DPSL
DEVELOP	DVLP
DEVELOPED	DVPD
DIABASE	DIA
DIABASIC	DIAC
DIORITE	DIO
DISPLACEMENT	DPCM
DISSEMINATED	DISS
DISSOLUTION	DSLT
DISTINCT	DSNC
DISTINCTLY	DSCL
DOLOMITE	DLMT
DOWNWARDS	BRDS
DOWN HOLE	DH
DRILLED	DRLD
DUNITE	DNT

ELONGATED	ELGD
ENRICHED	ERCD
EPIDOTE	EPID
EPIDOTIZED	EPDZ
EQUIGRANULAR	EQGR
ESTIMATE	EST
ESTIMATED	ESTD
ESTIMATION	ESTN
EXTREMELY	EXML
EUHEDRAL - SEE UHEDRAL	
EXPLANATION	EXPL
EXTENSIVE	EXSV

FABRIC	FBRC
FAINT	FNT
FAULT	FLT
FAULTED	FLTD
FELDSPAR	FSP
FELDSPATHIC	FSPC
FELDSPAR PORPHYRY	FDPR
FELSIC	FLSC
FELSITE	FELS
FIBROUS	FBRS
FILLING	FLLG
FINE	FN
FINE GRAINED	FG
FLECKS	FLCK
FOLIATED	FOTD
FOLIATION	FOTN
FOLLOWING	FLNG
FOOTWALL	FW
FOOT OF HOLE	FOH
FRACTURE	FRCT
FRACTURED	FRCD
FRACTURES	FRCS
FRAGMENT	FRGM
FRAGMENTAL	FRML
FRAGMENTS	FGMS
FREQUENT	FRQN
FRIABLE	FRBL

GABBRO	GAB
GABBROIC	GBIC
GALENA	GAL
GARNET	GAR
GARNETIFEROUS	GRFR
GERSDORFFITE	GERS
GLASSY	GLSY
GNEISS	GN
ORTHOGNEISS	ORGN
PARAGNEISS	PRGN
GNEISSIC	GNSC
GRADATIONAL	GRNLX
GRADING	GRDG
GRAIN	G
GRAINS	GRNS
GRANITE	GR
GRANITE BRECCIA	GR BX
GRANITE GNEISS	GRGN
GRANITIC	GRNC
GRANITIZED	GRZD
GRANITIZATION	GRZN
GRANODIORITE	GRDR
GRANOPHYRE	GRP
GRANOPHYRIC	GRPR
GRANULAR	GRLR
GRANULITE	GRNL
GRAPHIC	GPHC
GRAPHITE	GRPT
GRAPHITIC	GRPC
GRAVEL	GRVL
GREEN	GRN
GREENSTONE	GS
GREY	GY
GREYWACKE	GWKE

HABIT	HBT
HALOS	HLOS
HANGINGWALL	HW
HEMATITE	HEM
HETEROGENEOUS	HNGS
HIGHLY	HLY
HOMOGENEOUS	HMGS
HORNBLENDE	HBL
HORNBLENDITE	HBLT
HORNFELS	HRFL
HOST ROCK	HSRK
HYPIDIOMORPAIC	HPMC

IMPURE	IMP
IMPURITIES	IMPR
INCLUSION	INCL
INCLUSIONS	INCS
INCREASED	ICRD
INCREASING	ICRG
INDISTINCT	IDSC
INTENSE	INTS
INTERCALATED	IRTD
INTERGRANULAR	IRGL
INTERGROWN	IRGR
INTERGROWTH	IRGH
INTERMEDIATE	IRMD
INTERSTITIAL SULPHIDE	INSU
INTRUSIVE	INTR
IRREGULAR	IREG
IRON FORMATION	IF
JOINT	JT
JOINTED	JTD
JOINTING	JTG
JOINTS	JTS
LAMELLAR	LMLR
LAMINATED	LMND
LAMINATION	LMNN
LAMPROPHYRE	LAMP
LAPPILLI_TUFF	LPTF
LEFT	LFT
LENS	LNS
LENSES	LNSS
LEUCOCRATIC	LCRT
LIMONITE	LIM
LIMESTONE	LS
LINEAMENT	LNMT
LINEATED	LNTD
LINEATION	LNTN
LIGHT	LT
LIGHTER	LGTR
LOCALLY	LOCL
LOWER	LOWR
LUNATE	LNT
LUSTER	LSTR
MAFIC	MFC
MAFICS	MFCS
MAGNETIC	MTC
MAGNETITE	MT
MARBLE	MRBL
MARGINAL	MGNL
MASSIVE	MASS
MASSIVE SULPHIDE	MASU
MATERIAL	MTRL
MATRIX	MTX
MEDIUM	MED
MEDIUM GRAINED	MG
MELANOCRATIC	MLNC
METACRYST	MTCR
METADIABASE	MTDB
METADIORITE	MTDR
METAGABBRO	MTGB
METAMORPHIC	MTMC
METAMORPHOSED	MMPD
METASEDIMENT	MTSD
MICACEOUS	MICS
MIGMATITE	MGMT
MIGMATITIC	MGMC
MILLERITE	MLT
MINERAL	MIN
MINERALIZED	M
MINERALIZED STRONGLY	MS
MINERALIZED WEAKLY	MW
MINERALIZED VERY WEAKLY	MVW
MINERALIZED VERY VERY WEAKLY	MVVW
MINOR	MNOR
MODERATE	MOD
MODERATELY	MODY
MONZONITE	MONZ
MOTTLED	MTLD
MUSKEG	MSKG
MYLONITE	MYL

MYLONITIC	MYLC
MYLONITIZED	MYLD
NEMATOBLASTIC	NMBC
NICCOLITE	NC
NODULES	NDLS
NUMEROUS	NMRS
NUMBERS	NMBS
OCCASIONAL	OCC
OFFSET	OFST
OLIVINE	OLVN
OLIVINE DIABASE	OD
OPHITIC	OPTC
ORBICULAR	OBCL
ORE BODY	OBDY
OUTCROP	OC
OVERBURDEN	OB
OXIDIZATION	OXDN
OXIDIZED	OXDD
PANDIOMORPHIC	PNMC
PARALLEL	PLL
PART	PRT
PARTING	PRNG
PARTLY	PTLY
PEBBLE	PBL
PEBBLES	PBLS
PEGMATITE	PEG
PEGMATITIC	PGTC
PENTLANDITE	PN
PERCENT	PCNT
PERCRYSTALLINE	PRCL
PERIDOTITE	PRDT
PERMAFROST	PRMF
PERPENDICULAR	PPDC
PHENOCRYSTS	PHCR
PHILOGOPITE	PHLG
PHYLLITE	PLLT
PICROLITE	PCLT
PINK	PK
PLAGIOCLASE	PLAG
POLYMICTIC	PLMC
POROUS	POR
PORPHYROBLAST	PRBT
PROPHYROBLASTIC	PPBC
PORPHYRITIC	PRPC
PORPHYRY	PRPH
POSSIBLE	PSBL
POSSIBLY	PSBLY
PREDOMINANT	PRDM
PREDOMINANTLY	PRDL
PRESENT	PRSN
PRIMARY	PRM
PROGRESSIVE	PRGS
PTYGMATIC	PGMC
PTYGMATICALLY	PGMY
PYRITE	PY
PYRITIC	PYC
PYROCLASTIC	PCLC
PYROXENE	PRXN
PYROXENITE	PXT
PYRRHOTITE	PO
QUARTZ	QTZ
QUARTZITE	QTE
QUARTZ DIABASE	QDIA
QUARTZ DIORITE	QD

RADIOACTIVE	RDCV
NONRADIOACTIVE	NDCV
RADIOMETRIC	RDMC
RAGGED	RGD
RECRYSTALLIZED	RCZD
RELATIVELY	RLVL
RELICT	RLCT
REMNANT	RMNT
REMNANTS	RMNS
RHYODACITE	RDCT
RHYOLITE	RHY
RIGHT	RT
ROCK	RK
ROCKS	RX
ROSETTE	RST
ROUND	RND
ROUNDED	RNDD
RUDACEOUS	RDCS
RUSTY	TSTY

SALIC	SLC
SANDSTONE	SS
SATURATED	SATD
SAUSSURITIZED	SRZD
SCATTERED	SCTD
SCHIST	SCH
SCHISTED	SCHD
SCHISTING	SCHG
SCHISTS	SCHS
SCHISTOSE	SCSS
SCHISTOSITY	SCSY
SEDIMENT	SED
SEDIMENTARY	SDMR
SEDIMENTS	SEDS
SECTION	SCTN
SEGMENT	SGMT
SEGMENTED	SGMD
SEGMENTS	SGMS
SEGREGATED	SGGD
SEGREGATION	SGN
SEGREGATIONS	SGNS
SERICITE	SRCT
SERICITIC	SRCC
SERPENTINE	SRPN
SERPENINITE	SRPT
SERPENTINIZED	SRPD
SERPENTINIZED PERIDOTITE	SPPD
SEVERAL	SVRL
SHALE	SHL
SHARDS	SRDS
SHEAR	SHR
SHEARED	SHRD
SHEARING	SHRG
SILICEOUS	SLCS
SILICIFIED	SLFD
SILTSTONE	SLTS
SILLIMANITE	SLMN
SKARN	SKN
SKELETAL	SKLL
SLATE	SLT
SLICKENSIDED	SCKD
SLIKESIDES	SCKS
SLIGHT	SLI
SLIGHTLY	SLLY
SLIPS	SLPS
SLUDGE	SLDG
SMALL	SML
SLUMPING	SMPG
SOLUTION	SLTN
SPECKS	SPK
SPECKS	SPKS
SPHALERITE	SPH
STAINING	SNNG
STEATITE	STTT
STEATIZED	STZD
STREAK	STK
STREAKS	STKS
STRINGER	STR
STRINGERS	STRS
STRONG	STRG
STRONGLY	STGL
STRUCTURE	STRT
SUBHEDRAL	SBRL
SULPHIDE	SULP
SURROUND	SRND
SURROUNDED	SRDD
SURROUNDING	SRDG
SYENITE	SYNT
AUGITE SYENITE	ASYN
NEPHELINE SYENITE	NSYN

TEXTURE	TXTR
THROUGHOUT	TRGT
TRACE	TR
TRACHYTE	TRCT
TRANSITION	TRNS
TREMOLITE	TREM
TREMOLITIC	TRMC
TOURMALINE	TMLN
TOURQUOIS	TRQS
TUFFACEOUS	TFCS
TUFFITE	TUFI
UHEDRAL	UDRL
ULTRABASIC	UB
ULTRAMAFIC	UM
UNDULATING	UDLG
UPWARDS	UPRD
UPHOLE	UH
VEINLETS	VNLS
VEINING	VNNG
VERY COARSE GRAINED	VCG
VESICULAR	VSC
VIOLARITE	VT
VITREOUS	VTRS
VOLCANIC	VOLC
WEAK	WK
WEAKLY	WKLY
WHITE	WHT
YELLOW	YLW

SAKAMI PROJECT

GEOLOGICAL LEGEND

1, a, b, c, d	Mafic volcanics, in part amphibolitic (1a), with minor sediments (1b), pillow mafic (1c); massive to foliated (1d)
2, a, b, c, d, e	Sediments; greywacke (2a), arkose (2b); argillite (2c), dopside skarn (2d), mafic schist (2e)
3, a	Quartzite, in part sericitic (3a)
4	Quartz pebbled conglomerate
5, a, b, c	Mafic dykes; meta diabase (5a); meta gabbro (5b), acid dykes (5c only minor occurrences)
6, a, b, c	Ultramafic sills, serpentinite (6a); amphibolitic (6b); talc schist (6c).
7	Iron formation
8	Polymictic conglomerate
9	Acid volcanics; rhyolite (9a), rhyodacite (9b); in part porphyritic (9c)
10 | 10a	Granite; granite gneiss (10a)

Geological contact, defined, assumed, projected

Fault zone: - defined, inferred

70° Strike and dip of schistosity and bedding: - inclined, vertical

1000 cps Scintillometer Readings in 'counts per second' (cps) were taken with a Scintrex GIS – 3 on broad band, at ground level.

Pillows with observed tops

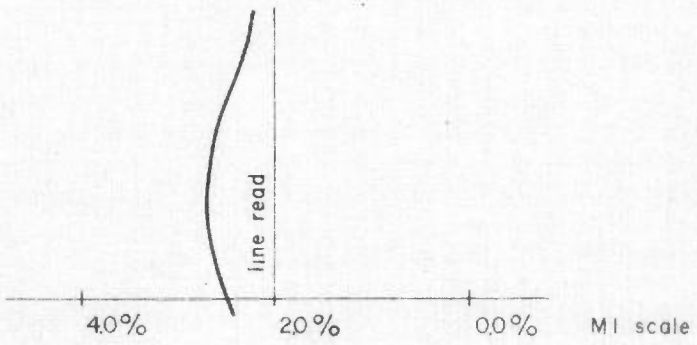
Outcrop

SAKAMI PROJECT

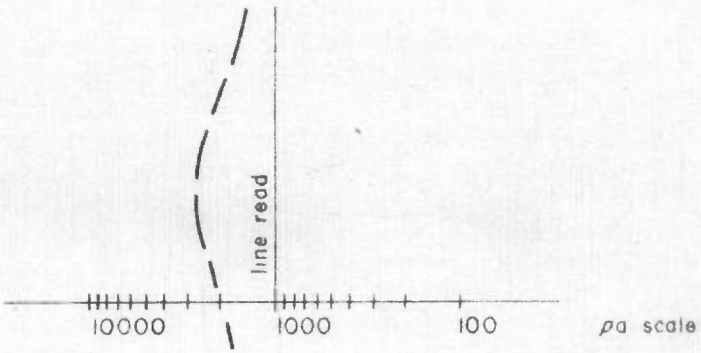
IP SURVEY

Station readings M1 M2 M3 M4 (readings in % X 100) 269 255 228 199
ρa (ohm feet) 3600

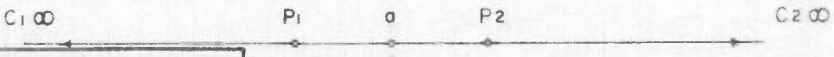
M1 chargeability (1" = 20%)



Apparent resistivity (1" = 1 cycle)



Electrode Configuration



station plotted

a = 100' 2000E - 1600W
a = 200' 2000W - 18000W

(Defined) (Probable)

Anomaly outline

Boreholes Drilled Suggested

SAKAMI PROJECT

GEOLOGICAL LEGEND

1, a, b, c, d	Mafic volcanics ; in part amphibolitic (1a); with minor sediments (1b), pillow mafic (1c); massive to foliated (1d)
2, a, b, c, d, e	Sediments ; greywacke (2a); arkose (2b), argillite (2c), dopside skarn (2d), mafic schist (2e)
3, a	Quartzite ; in part sericitic (3a)
4	Quartz pebbled conglomerate
5, a, b, c	Mafic dykes ; meta diabase (5a); meta gabbro (5b), acid dykes (5c only minor occurrences)
6, a, b, c	Ultramafic sills ; serpentinite (6a); amphibolitic (6b); talc schist (6c)
7	Iron formation
8	Polymictic conglomerate
9	Acid volcanics ; rhyolite (9a); rhyodacite (9b) ; in part porphyritic (9c)
10 | 10a	Granite ; granite gneiss (10a).
	Geological contact ; defined , assumed, projected
	Fault zone : - defined , inferred
70°	Strike and dip of schistosity and bedding : - inclined , vertical
1000 cps	Scintillometer Readings in 'counts per second' (cps.) were taken with a Scintrex GIS – 3 on broad band , at ground level .
	Pillows with observed tops
	Outcrop

BOREHOLE RECORD
****

DATE PROCESSED APR 01,1974

CHK'D.....

BOREHOLE#	PROPERTY	NTS#	SH#	ANOM#	DEPTH	AZIMUTH	DIP	LATITUDE	DEPARTURE	ELEVATION	LEVEL
55304-0	SAKAMI LAKE	33F 7E		82	397	133 00	-45 00	S 5150	W 19350		DATE.....

INCLINATION AND TROPARI TESTS

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP
100		-50 00	200		-51 00	300		-48 00	391		-56 30			

TOPS OF WEDGES

LOGGED BY..JAMIESON R A STARTED..MAR 02,1973 COMPLETED..MAR 05,1973

COMMENTS

DRLD INSPIRATION AG CORE-DRLD ON LAKE-ALL CASING RECOVERED PERMIT AREA 550

SAMPLE ENTRIES

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
0.0	0.0			COLLAR	
42.0	42.0			OB-WATER SAND & GRAVEL-AW CASING TO 42.0 ICE 3FT WATER 1FT	
47.7	5.7		ARK	WHITE TO LT GY-FG-FSP(PLAG & K-SPAR) -QTZ-SRCT-WITH 1% MAFICS-WKLY BNDD DUE TO MAFICS & CHL-PY 1% RELATIVELY SHARP CONTACT WITH FOLLOWING AT 70 DEGREES T.S. META ARK	60
48.9	1.2		ARK	MED TO DK GY FG INTERMEDIATE TUFF(Q) APPEARS TO BE PLAG AMPB & OR BIOT LOC SRCC CONTACTS SHARP & REGULAR AT 70 DEGREES INTRUDED LOC BY 2 TO 3 IN QTZ VEINS ARK IS MED SOFT WKLY TO LOC FOTD POSSIBLE TRAP DIKE(C) SULPS PY 1% CONTACT LOST DUE TO GRINDING BOTTOM T.S. MICACEOUS META ARK	60
52.8	3.9		ARK	AS TO 47.7 CONTACT LOST DUE TO BROKEN CORE-TS-C-73-1050 @ 50' META ARK	
53.2	0.4		ARK	AS TO 48.9 CONTACT LOST DUE TO BROKEN & GROUND CORE	
54.5	1.3		ARK	AS TO 47.7 POSSIBLY MORE BIOT & CHL CONTACTS APPEAR SHARP & REGULAR AT 70 DEGREES	
55.2	0.7		ARK	AS TO 48.9 LOST CONTACT	
56.0	0.8		ARK	AS TO 54.5 CONTACT SHARP & REGULAR AT 70 DEGREES	
56.8	0.8		ARK	AS TO 48.9 GOOD SHARP CONFORMABLE CONTACT AT 70 DEGREES SEE T.S. REPORT TS-C-73-1051 @ 56.8' META ARK	
61.6	4.8		ARK	AS TO 47.7 SLLY GRNISH & PINKISH TING IMPARTED BY CHL & BIOT WKLY BNDD CONTACT LOST DUE TO GROUND CORE	65
62.0	0.4		ARK	AS TO 48.9 LOST CONTACT	
67.5	5.5		ARK	AS TO 47.7 COULD THIS IS FG SED DUE TO WHAT APPEARS TO BE BEDDING CONTACT SHARP AT 72 DEGREES	
70.4	2.9	MVVW	ARK	AS TO 67.5	
70.7	0.3	MVVW	ARK	AS TO 48.9	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
72.5	1.8	MVVW	ARK	AS TO 70.4 LACK OF PINKISH TING-POSS IBLE BRECCIATION NEAR TOP CR SLUMPIN G CONTACT LOST	
73.3	0.8	MVW	ARK	AS TO 48.9 WKLY CONDUCTIVE NON MTC P Y VARIES FROM 2 TO 4% CONTACT SHARP AT 73 DEGREES	
76.9	3.6	MVVW	ARK	AS TO 47.7	
77.9	1.0	MVVW	ARK	AS TO 48.9 MICACEOUS META ARKOSE	
78.3	0.4	MVVW	ARK	AS TO 47.7	
78.5	0.2	MVVW	ARK	AS TO 47.7	
78.7	0.2	MVVW	ARK	AS TO 48.9	
80.0	1.3	MVVW	ARK	AS TO 47.7	
80.2	0.2	MVVW	ARK	AS TO 48.9	
81.1	0.9	MVVW	ARK	AS TO 47.7 POSSIBLE AMPB VEINING CON TACT LOST	
81.8	0.7	MVW	ARK	AS TO 48.9 PY 1 TO 2%	
84.8	3.0	MVVW	ARK	AS TO 47.7	
89.8	5.0	MVVW	ARK	AS TO 47.7 BECOMING SRCT RICH TOWARD S BOTTOM	
95.9	6.1	MVW	ARK	AS TO 47.7 MORE SRCT RICH PY 4 TO 5% IN STRS BETTER BNDD MINOR FOLDING T OWARDS TOP WKLY CONDUCTIVE OVER LENG THS OF 6 TO 8 INCHES	50
99.7	3.8	MVVW	ARK	AS TO 47.7 LOST CONTACT	
105.4	5.7	MVW	ARK	AS TO 95.9 BUT MORE SLUMPED PY 2 T O 4% SLLY CONDUCTIVE	
111.8	6.4	MVW	ARK	AS TO 47.7 PY STRS 1 TO 2% BNDD	70
112.8	1.0	MVW	ARK	AS TO 47.7 PY ZNS PBS MAINLY ZNS 2% MORE ZNS TO TOP & MORE PY TO BOTTOM OF SECTION	
117.8	5.0	MVVW	ARK	AS TO 47.7	
141.0	23.2		QTE	AS TO 47.7 CUT BY 2 INCH QTZ VEIN AT 70 128.0 ONE BND AS TO 48.9 2 INCHES W IDE AT 133.0 CONTACT LOST BNDD PHCR FSP TOWARDS BOTTOM OF UNIT TS C-73-1052 @ 136.7' QTE	
141.4	0.4		ARK	AS TO 47.7 FLOW CHL MTX LOWER CONT ACT LOST	
153.2	11.8		QTE	AS TO 141.0-2 INCH ZONE AT 150.0 AS TO 48.7 POSSIBLY PORPHYRITIC VOLC	
154.4	1.2	MVW	QTE	AS TO 141.0 5% SULPS ZNS PBS PO PY V ERY WKLY CONDUCTIVE & VERY WKLY MTC	
159.4	5.0	MVW	ARK	AS TO 95.9 SRCC PO & PY STRS 2 TO 3% WITH 1% COMBINED ZNS CPY & PBS WELL DEVELOPED BNDD SULPS PLL BNDD	70
164.1	4.7	MVW	ARK	AS TO 159.4 SULPS 1 TO 2%	
171.8	7.7		ARK	AS TO 61.6 CONTACT WITH FOLLOWING SH ARP & SLLY IRREGULAR CONTACT APPEARS TO CROSS CUT BNDD RHYD BECOMES PRPC TOWARDS CONTACT	
172.4	0.6		ARK	AS TO 48.9 CONTACT SHARP BUT IRREGUL AR & DEFINITELY CROSS CUTS BNDD IN F OLLOWING SECTION MICACEOUS META ARK	
176.3	3.9	MVW	ARK	AS TO 171.8 SULPS ZNS PBS PO & PY IN STRS VARYING FROM 1 TO 3% STR ZNS O	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				UT BY FOLLOWING UNIT INDICATING FOLL OWING UNIT TO BE DIKE THAT IS ROCK T YPE AT 48.9 IS PROBABLE DYKE	
177.8	1.5	MVVW	ARK	AS TO 48.9 CONTACT VERY IRREGULAR BU T SHARP WITH SOME BXTD OF FOLLOWING UNIT BXTD POSSIBLY PEBBLY ARK	
182.0	4.2	MVW	ARK	AS TO 176.3	
192.3	10.3		ARK	AS TO 47.7 BNDD CONTACTS SHARP & REG ULAR	73
197.3	5.0	MVW	ARK	AS TO 192.3 BUT HAS SULPS 2% PBS PO PY IN STRS 2 TO 3%	
202.0	4.7	MVW	ARK	AS TO 197.3 SHOWING SOME EXTC AT 198 .1	
204.4	2.4	MVVW	ARK	AS TO 192.3	
205.1	0.7	MVVW	ARK	AS TO 192.3 IRREGULAR CONTACT	
209.4	4.3	MVVW	ARK	AS TO 48.9 MICACEOUS META ARK	
211.3	1.9	MVW	ARK	AS TO 48.9 SULPS 4% SLLY CONDUCTIVE & WKLY MTC MICACEOUS META ARK	
212.4	1.1	MW	ARK	AS TO 211.3 PO & PY 10 TO 15% CONDUC TIVE & MTC	
217.4	5.0	MVVW	ARK	AS TO 48.9 QTZ VEIN AT 216.1	
308.5	91.1		QTE	OR DYKE AS TO 48.9 WKLY BNDD BECOMIN G GARNETIFEROUS TOWARDS BOTTOM CUT L OC BY QTZ VEINS POSSIBLE EPIDOTE ALT N LOC AS WELL TS C-73-1053 @ 242.0' MICACEOUS QTE	70
313.5	5.0	MVW	ARK	AS TO 47.7 POSSIBLE SLUMPING SULPS 1 TO 2% IN STRS PO & PY WKLY MTC & WK LY CONDUCTIVE	
318.5	5.0	MVW	ARK	AS TO 313.5	
323.5	5.0	MVW	ARK	AS TO 313.5 UP TO 3% SULPS	
328.5	5.0	MVW	ARK	AS TO 313.5 SULPS 1%	
333.5	5.0	MVW	ARK	AS TO 313.5 SULPS 3 TO 4% BRECCIATIO N OF RX WITH EPIDOTE CHL MTX	
336.8	3.3	MVW	ARK	AS TO 313.5 VERY MINOR BRECCIATION S ULPS 1 TO 2%	
339.1	2.3		ARK	AS TO 313.5 SULPS 1% CONTACT LOST	
353.6	14.5		ARK	AS TO 47.7 BXMX LOWER CONTACT 30 DEG REES BRECCIATED FGMS SIZE VARIABLE F ROM .15 INCH TO 1 INCH TS-C73-1054 @ 340.' META PEBBLY ARK	
397.0	43.4		ARK	AS TO 47.7 LOC PINKISH LOC MAFIC DK BNDS PY 1% BANDING VARIES FROM 60 T O 90 DEGREES MAINLY AROUND 75 DEGREE S LOC QTZ VEINED AT 381.0-2 INCH BND AT 381.9 AS TO 48.9	75
				FOOT OF HOLE	
				CORS & MAG EXPLANATION THROUGHOUT BO RE HOLE	
				NOTE 1600S & 020E IS 5150S & 19350W ON SAKAMI N BL ANOM AZ OF 133DEG	
				IS SOUTH ON SAKAMI N BL	

BOREHOLE RECORD
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DATE PROCESSED APR 01,1974

CHK'D.....

BOREHOLE#	PROPERTY	NTS#	SH#	ANOM#	DEPTH	AZIMUTH	DIP	LATITUDE	DEPARTURE	ELEVATION	LEVEL	DATE.....
55305-0	SAKAMI LAKE	33F 7E		73	382	324 00	-45 00	S 3155	W 12538			

INCLINATION AND TROPARI TESTS

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP
100		-51 00	200		-46 00	300		-47 00	380		-48 00			

TOPS OF WEDGES

LOGGED BY..DEBICKI E J STARTED..MAR 06,1973 COMPLETED..MAR 08,1973

COMMENTS

DRILLED INSPIRATION-AQ CORE-DRILLED ON LAKE-ALL CASING RECOVERED-PERMIT AREA 550

SAMPLE ENTRIES

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
0.0	0.0			COLLAR	
89.0	89.0			OVERBURDEN 3 FEET ICE 2 FEET WATER S AND & GRAVEL AW CASING TO 89.0 FEET START OF CORE	
127.0	38.0		ARK	METAMORPHOSED-FG TO MG-MEDIUM GREY C OLOUR GRADING LOCALLY INTO LIGHTER G REY SECTIONS-PLAGIOCLASE MINOR K-SPA R QUARTZ MAFICS BIOTITE RICH FOLIAT ION PLANED-NUMEROUS STRINGERS & VEIN LETS OF QUARTZ (0.1 TO 1 INCH WIDE) WITH MINOR CLACITE PARALLEL TO FOLIA TION (WEAK TO MODERATE DEVELOPMENT) CORE AXIS 10 TO 15 DEGREES-NON MAGNE TIC NON CONDUCTIVE-POSSIBLE BEDDING GRADING FROM MG TO FG TOWARDS TOP OF BED-TOPS DOWN THE BOREHOLE-CONTACTS OF BEDS SHARP-LOCAL THIN BANDS OF BI OTITE (LESS THAN 0.1 INCHES WIDE) PA RALLEL TO FOLIATION	10
144.5	17.5		ARK	AS TO 127.0 EXCEPT INTRUDED BY QUART Z & QUARTZ CALCITE VEINS PARALLE TO & CROSS-CUTTING FOLIATION (/.1 TO 4 INCHES WIDE)-SOME VEINS FRACTURED & PTYGMATICALLY FOLDED	30
382.0	237.5		ARK	AS TO 127-0-SMALL SLIP FRACTURES PER PENDICULAR TO FOLIATION AT 172-3,181 .0 & 348.4 FEET-QUARTZ VEINS PERPEND ICULAR TO FOLIATION AT 172.4 & 206.5 FEET-SMALL FOLDS (SLUMP STUCTURES) AT 207.2 & 366.6 FEET-SPECKS PY AT 2 85.7,292.3 & 297.1 FEET ASSOCIATED W ITH LIGHTER GREY COLOURED SECTIONS-F OLIATION AND AMOUNT OF BIOTITE DECRE ASES WITH DEPTH OF HOLE	20
				TS C-73-1231 @ 168.0' MICACECUS QTE FOOT OF HOLE	
				NO CONDUCTOR OR MAG EXPLANATION	
				NOTE ANOM COORDS 1+80S-0+00 GRID N	

BOREHOLE RECORD
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DATE PROCESSED APR 01,1974

CHK'D.....

BOREHOLE#	PROPERTY	NTS#	SH#	ANOM#	DEPTH	AZIMUTH	DIP	LATITUDE	DEPARTURE	ELEVATION	LEVEL
55306-0	SAKAMI LAKE	33F 7E		73	267	144 00	-45 00	S 2855	W 12508		DATE.....

INCLINATION AND TROPARI TESTS

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP
100		-45 45	200		-46 45	267		-47 00						

TOPS OF WEDGES

COMMENTS

LOGGED BY..AAQUIST B E STARTED..MAR 10,1973 COMPLETED..MAR 11,1973 DRLG INSPIRATION-DRLG ON LAKE-AQ CORE-ALL CASING RECOVERED-PERMIT AREA 550

SAMPLE ENTRIES

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
0.0	0.0			COLLAR	
100.0	100.0			OVERBURDEN-3 FEET ICE-2 FEET WATER MUD SAND & GRAVEL-AW CASING TO 100 FEET	
163.0	63.0		ARK	BANDED-FG TO MG-DK GY TO MED GY RESPECTIVELY-BANDS VARY FRCM C.1 INCH TO A FOOT-CONTACT BETWEEN BANDS IS SHARP-PLAGIOCLASE & BIOTITE MAIN MINERALS SOME QUARTZ & K FELDSPAR & OR SERICITE-LOCAL QUARTZ & CALCITE VEINS 0.1 TO 0.5 INCHES PARALLEL TO BANDING-SLUMP STRUCTURE AT 110 WITH AN ANGLE OF 20-MINOR FAULT ZONE AT 138 FAULTS ANGLE AT 23 DISPLACEMENT OF 0.5 INCHES-ANOTHER FAULT ZONE AT 144 -QUARTZOSE MATERIAL ASSOCIATED WITH TUFF AT 132 CONTAINS PY 1%-BANDING MAY REPRESENT GRADED BEDDING	75
163.6	0.6		ARK	AS TO 163.0-GRADED BEDDING-TOP UP HOLE-DK GY AT BASE LT GY AT TOP-0.1 INCH QTZ VEIN AT 163.1 MAKES ANGLE OF 80 TO CORE 30 TO BANDING-CONTACT WITH OVERLYING UNIT SHARP & REGULAR AT 75 DEGREES	75
164.0	0.4		ARK	AS TO 163.6-A 0.2 INCH DK FG BAND OC CURS AT 163.75-CONTACT WITH CVERLYING UNIT SHARP & REGULAR AT 75 DEGREES TS C-73-1237 @ 164.0 MICACEOUS QTZ	75
167.5	3.5		ARK	AS TO 163.0-CONTACT WITH CVERLYING UNIT SHARP & REGULAR AT 75 DEGREES	75
173.0	5.5		ARK	AS TO 164.0-CONTACT WITH CVERLYING UNIT SHARP & REGULAR AT 75 DEGREES	75
197.3	24.3		ARK	AS TO 163.0-4 INCH QTZ VEIN AT 174.5 MINOR FAULTING AT195-FAULTS AT 45 DEGREES 0.5 INCH MAXIMUM DISPLACEMENT. THIN CHLORITE BNADS DEVELOPED IN FAULT ZONE-CONTACT WITH OVERLYING UNIT SHARP & REGULAR AT 75 DEGREES	75

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				TS C-73-1238 @ 197.3 MICACECLS QTE	
198.0	0.7		ARK	AS TO 163.6-QUARTZ CALCITE VEIN ONE INCH AT 197.8 WITH PY 1%-CONTACT WI TH OVERLYING UNIT SHARP & REGULAR AT 80 DEGREES	80
199.2	1.2		ARK	AS TO 163.6-CONTACT WITH OVERLYING U NIT SHARP & REGULAR AT 80 DEGREES	
245.9	46.7		ARK	AS TO 163.6-CONTACT WITH OVERLYING U NIT SHARP & REGULAR AT 80 DEGREES	80
250.7	4.8		ARK	MG-MED GY THROUGHOUT-LOCAL QUARTZ VE INS-PLAGIOCLASE BIOTITE QUARTZ & SER ICITE-CONTACT WITH ABOVE UNIT SHARP & REGULAR AT 80 DEGREES-PY 1% FROM 248 TO 249	
				TS C-73-1239 @ 247.2' META ARKOSE	
251.0	0.3		GWKE	AS TO 250.7-MORE QTZ VEINING-ABOUT FOUR 0.1 INCH VEINS PER INCH-CONTACT WITH ABOVE UNIT GRADATIONAL OVER 0.1 INCH	80
				TS-C-73-1240 @ 251.0' META GWKE	
261.3	10.3		ARK	AS TO 163.6-DK GY-CONTACT WITH OVERL YING UNIT SHARP & REGULAR AT 80 DEGR EES	
267.0	5.7		ARK	AS TO 163.6-CONTACT WITH OVERLYING U NIT SHARP & REGULAR AT 80 DEGREES	80
				FOOT OF HOLE	
				NO EXPLANATION FOR CONDUCTOR IN HOLE	
				NO EXPLANATION FOR MAG	
				NOTE ANOM COORDS-2+45N-00OC GRID S	

BOREHOLE RECORD
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DATE PROCESSED APR 01,1974

CHK'D.....

BOREHOLE#	PROPERTY	NTS#	SH#	ANOM#	DEPTH	AZIMUTH	DIP	LATITUDE	DEPARTURE	ELEVATION	LEVEL
55307-0	SAKAMI PROJECT	33F 7E		28	331	165 00	-45 00	S 608	W 3890		

DATE.....

INCLINATION AND TROPARI TESTS

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP
100		-46 45	200		-47 15	300		-51 00						

TOPS OF WEDGES

COMMENTS

LOGGED BY..DEBICKI E J STARTED..MAR 13,1973 COMPLETED..MAR 15,1973 DRILLED INSPIRATION-DRILLED ON LAKE-AQ CORE-ALL CASING RECOVERED-PERMIT 550

SAMPLE ENTRIES

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
0.0	0.0			COLLAR	
122.0	122.0			OVERBURDEN-2 FEET ICE 2 FEET WATER 1 18 FEET SAND & GRAVEL-AW CASING TO 1 22 FEET START OF CORE	
123.5	1.5		ARK	METAMORPHOSED-MG-GREY-LOCAL QUARTZ V EIN (0.2 INCHES WIDE) AT 122.7 FEET AT 50 DEGREES-PLAGIOCLASE,BIOTITE-RI CH,QUARTZ,MINOR K-SPAR-LOWER SHARP C ONTACT AT 75 DEGREES TS-C-73-1232 @ 123.0' ARK & MICACEOUS QTE	75
129.2	5.7		ARK	METAMORPHOSED-BEDDING GRADED FROM ME DIUM GREY (MG) AT BOTTOM OF BED TO D ARKER GREY (FG) AT TOP OF BED-TOPS A RE UP THE BOREHOLE-THIS UNIT IS LOGG ED AS ONE BED-UPPER & LOWER CONTACTS AT 75 DEGREES & SHARP DUE TO ABRUPT GRAIN SIZE CHANGE-MG PART OF BED (LO WER PART) PORPHYRITIC (FELDSPAR & QU ARTZ) & LESS THAN 0.05 INCH PORPHYRI ES IN SIZE-PLAGIOCLASE QUARTZ RICH I N BIOTITE (MAINLY ALONG FOLIATION PL ANES) MINOR K-SPAR-BANDING DUE TO BI OTITE RICH ZONES PARALLEL TO CORE AX IS-LOCAL QUARTZ (MINOR CALCITE) VEIN S (LESS THAN 0.1 INCHES WIDE) PARALL EL TO FOLIATION (SOME CROSS-CUT FOLI ATION)-AT 123.8 TO 124.0 QUARTZ CALC ITE BIOTITE VEIN (QUARTZITE) WITH S HARP UPPER CONTACT AT 30 DEGREES & S HARP LOWER CONTACT AT 85 DEGREES-AT 124.5 TO 124.7 SAME TYPE OF VEIN AS AT 123.8 FEET WITH SHARP UPPER CONTA CT AT 50 DEGREES & JAGGED LOWER CONT ACT GRADING INTO ARKOSE	75
130.4	1.2		ARK	AS TO 129.2-UNIT IS LOGGED AS ONE BE D-SHARP LOWER CONTACT AT 75 DEGREES FEW QUARTZ VEINS	75

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
130.9	0.5		ARK	AS TO 129.2-FEW QUARTZ VEINS-SHARP L OWER CONTACT AT 75 DEGREES	75
132.1	1.2		ARK	AS TO 129.2-QUARTZ VEIN AT 131.9 (0. 1 INCHES WIDE) PARALLEL TO FOLIATION SHARP LOWER CONTACT AT 60 DEGREES	60
144.4	12.3		ARK	AS TO 129.2-QUARTZ (MINOR CALCITE) V EINS (LESS THAN 0.2 INCHES WIDE) PAR ALLEL TO AND CROSS-CUTTING FOLIATION AT 144.2 TO 144.3 A 1 INCH QUARTZ VE IN INJECTED IRREGULARILY-CORE AXIS 6 0 DEGREES AT TOP OF BED TO 70 DEGREE S AT BOTTOM OF BED-LOWER CONTACT OF BED UNDULATING-BANDING DUE TO BIOTIT E RICH ZONES PARALLEL TO FOLIATION	60
150.2	5.8		ARK	AS TO 129.2 FEW QUARTZ VEINS-CORE AX IS 70 DEGREES AT TOP OF BED TO 60 DE GREES AT BOTTOM OF BED-LOWER CONTACT SHARP AT 60 DEGREES	70
157.0	6.8		ARK	AS TO 129.2-A 0.5 INCH QUARTZ VEIN A T 150.8 WITH SHARP UPPER CONTACT AT 45 DEGREES & JAGGED LOWER CONTACT-OT HER LOCAL SMALL QUARTZ VEINS PARALLE L TO & CROSS-CUTTING FOLIATION-LOWER CONTACT AT 70 DEGREES-AT 153.6 TO 15 3.7 FG ARKOSE WITHIN MG ARKOSE WITH SHARP CONTACTS AT 80 DEGREES	60
159.6	2.6		ARK	AS TO 129.2-FEW QUARTZ VEINS PARALLE L TO FOLIATION-LOWER CONTACT NOT SHA RP-UPPER 2.5 INCHES OF BED DARK-GREY GREEN (CHLORITIC)	70
160.1	0.5		ARK	AS TO 129.2-SHARP LOWER CONTACT AT 80 DEGREES	80
160.5	0.4		ARK	AS TO 129.2-LOWER CONTACT SHARP AT 7 0 DEGREES	70
160.9	0.4		ARK	AS TO 129.2-LOWER CONTACT SHARP AT 7 0 DEGREES	70
168.8	7.9		ARK	AS TO 129.2-AT 162.0 TO 162.8 BLEBS OF ALTERED FELDSPAR (Q) ELONGATED PA RALLEL TO FOLIATION-LOWER CONTACT SH ARP AT 70 DEGREES-FEW QUARTZ VEINS C ROSS-CUTTING FOLIATION	70
172.6	3.8		ARK	AS TO 129.2-LOWER CONTACT SHARP AT 7 5 DEGREES-LOWER 1.5 FEET OF BED IS A LIGHT GREY COLOUR WITH K-SPAR & SMAL L QUARTZ PEBBLES (QUARTZ PEBBLY ARKO SE) PEBBLES FG-AT 172.4 SPECKS DISS EMINATED PY TS C-73-1233 @ 172.3 META ARK	75
173.5	0.9		ARK	AS TO 129.2-WAVY QUARTZ VEIN AT 172. 7 CROSS-CUTTING FOLIATION-LOWER CONT ACT SHARP AT 75 DEGREES	75
174.2	0.7		ARK	AS TO 129.2 LOWER CONTACT SHARP AT 7 5 DEGREES	75
176.4	2.2		ARK	AS TO 129.2-LOWER CONTACT SHARP AT 7 0 DEGREES	70

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
177.0	0.6		ARK	AS TO 129.2-LOWER CONTACT SHARP AT 6 5 DEGREES	65
177.8	0.8		ARK	AS TO 129.2-LOWER CONTACT SHARP AT 7 3 DEGREES	70
181.0	3.2		ARK	AS TO 129.2-LOWER CONTACT SHARP AT 7 5 DEGREES-SMALL QUARTZ VEINS PARALLE L TO & CROSS-CUTTING FOLIATION	75
188.9	7.9		ARK	AS TO 129.2-LOWER CONTACT LOST DUE T O BROKEN CORE-BANDING DUE TO BIOTITE RICH ZONES-THIS UNIT MAY BE COMPRISE D OF SEVERAL SMALLER BEDS BUT CONTAC TS VAGUE-SEVERAL QUARTZ VEINS (LESS THAN 0.2 INCHES WIDE)-FELDSPAR QUART Z BIOTITE CHLORITE VEIN (C) AT 182.6 TO 182.7 WITH GRADATIONAL UPPER CONT ACT & SHARP LOWER CONTACT AT 75 DEGR EES (SAME APPEARANCE AS VEIN AT 123. 8 TO 124.0)	75
189.4	0.5		GWKE	INTERMEDIATE TUFF-UNIFORM THROUGHOUT FG-DARK GREY GREEN-CHLORITE & BIOTIT E RICH WITH SMALL BLEBS OF BIOTITE E LONGATED PARALLEL TO FOLIATION-SMALL BLEBS OF FELDSPAR-FOLIATION WEAKLY D EVELOPED-LOWER CONTACT SHARP BUT ANG LE LOST DUE TO BROKEN CORE TS C-73-1234 @ 189.3' META GWKE	80
197.6	8.2		ARK	AS TO 129.2-LOWER CONTACT SHARP BUT ANGLE LOST DUE TO BROKEN CORE-QUARTZ VEINS UP TO 0.5 INCHES WIDE PARALLEL TO & CROSS-CUTTING FOLIATION-FOLIATI ON BECOMES WEAKER AND MUSCOVITE CONT ENT INCREASES TOWARDS BOTTOM OF BED UNIT MAY CONTAIN SEVERAL SMALLER BED S WITHIN IT	75
199.9	2.3		GWKE	INTERMEDIATE TUFF-AS TO 189.4-A 0.2 INCH BAND OF BIOTITE AT 198.1-SEVERA L QUARTZ PEBBLES (LESS THAN 0.5 INCH ES IN SIZE)-UPPER & LOWER CONTACTS S HARP BUT ANGLES LOST DUE TO BROKEN C ORE	80
205.2	5.3		ARK	AS TO 129.2 BUT CONTAINS MUSCOVITE-L OWER CONTACT SHARP PARTS OF SEQUENCE MAY BE MICACEOUS QUARTZITE	70
206.5	1.3		ARK	AS TO 205.2-LOWER CONTACT SHARP AT 7 5 DEGREES-BANDING DUE TO BIOTITE AND MUSCOVITE RICH ZONES	75
209.3	2.8		ARK	AS TO 205.2-LOWER CONTACT SHARP AT 6 5 DEGREES-SEVERAL QUARTZ VEINS PARAL LEL TO & CROSS-CUTTING FOLIATION	65
219.5	10.2		ARK	AS TO 205.2-LOWER CONTACT LOST DUE T O BROKEN CORE-QUARTZ VEINS UP TO 0.5 INCHES WIDE-AT 219.3 TO 219.5 SMALL UNDULATING QUARTZ VEINS UP TO 0.3 IN CHES WIDE-QUARTZ VEIN AT 212.6 CONTA INS SPECKS PY-AT 212.8 TO 213.4 LIGH	85

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				TER GREY SECTION CONTAINING SPECKS P Y SIMILAR TO SECTION AT 172.4-UNIT M AY CONTAIN SEVERAL SMALLER BEDS WITH GRADATIONAL CONTACTS-POSSIBLE CROSS-BEDDING AT 220.8	
233.6	14.1		ARK	AS TO 205.2-LOWER CONTACT SHARP AT 8 0 DEGREES-UNIT CONTAINS SEVERAL BEDS WITH GRADATIONAL CONTACTS-BASAL PART S OF BEDS ARE MG GRADING UPWARDS AND BECOMING FG-THICKNESS OF BEDS VARIAB LE BUT LESS THAN 4 FEET-SPECKS PINK GARNETS AT 133.4	80
246.2	12.6		ARK	AS TO 205.2 POSSIBLE CROSS-BEDDING I N UPPER PART OF UNIT-SLUMP STRUCTURE AT 237.6-SPECKS GARNETS AT 238.7& 2 39.5-CORE AXIS 85 DEGREES AT TOP & B OTTOM OF BED-QUARTZ CALCITE VEIN AT 245.4 TO 245.6 WITH IRREGULAR CONTAC TS-AT 234.2 TO 234.7 & 240.1 TO 244. 1 NUMEROUS CLOTS OR BLEBS OF ALTERED FELSPAR (Q) & CHLORITE (Q) LESS THAN 0.5 INCHES WIDE (POSSIBLY ALTERED RO CK FRAGMENTS) TS C-73-1235 @ 242.2 MICACEOUS QTE	65
256.8	10.6		ARK	AS TO 205.2-CORE AXIS 85 DEGREES AT TOP OF BED & 70 DEGREES AT 254.0-SMA LL SPECKS PINK GARNETS AT 246.7-LOWE R CONTACT SHARP BUT ANGLE LOST DUE T O BROKEN CORE TS C-73-1236 @ 254.5 MICACEOUS QTE	85
277.1	20.3		ARK	AS TO 205.2-LOWER CONTACT SHARP BUT ANGLE LOST DUE TO BROKEN CORE-AT 257 .6 TO 260.6 SMALL CLOTS OR BLEBS OF ALTERED FELSPAR (Q) AS AT 240.1 TO 2 44.1 (CLOTS ELONGATED PARALLEL TO FO LIATION)-EXTENSIVE QUARTZ CALCITE VE INING AT 263.2 TO 264.2& 265.9 TO 26 6.1-FOLD AXIS AT 274.0 WITH FOLIATIO N AT 45 DEGREES ABOVE FOLD AXIS & 45 DEGREES BELOW FOLD AXIS BUT AT 90 DE GREES TO EACH OTHER-CORE AXIS 85 DEG REES AT 257.6,85 DEGREES AT 265.5,55 DEGREES AT 267.5,65 DEGREES AT 271.4 & 45 DEGREES AT 276.5 (POSSIBLE CROS S-BEDDING)	85
278.1	1.0		ARK	AS TO 205.2-LOWER CONTACT SHARP BUT ANGLE LOST DUE TO BROKEN CORE	65
315.2	37.1		ARK	AS AT 205.2-BED FG TO 306.0 GRADING INTO MG TO BOTTOM OF BED-LOWER CONTA CT AT 90 DEGREES-SMALL QUARTZ VEINS FOLDED PTYGMATICALLY AT 278.3 & 279. 0-SPECKS PY AT 286.7 & 287.2 (LIGHTE R GREY COLOURED ZONES)-LOCAL QUARTZ VEINS (LESS THAN 0.5 INCHES WIDE) PA RALLEL TO & CROSS-CUTTING FOLIATION	80

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				SPECKS PINK GARNETS AT 287.6-POSSIBLE CROSS-BEDDING AT 296.1-AT 289.6 TO 292.9,294.0 TO 297.3 & 300.1 TO 301	
				.3 CLOTS OR BLEBS OF ALTERED FELDSPAR (Q) ELONGATED PARALLEL TO FOLIATION-CORE AXIS 80 DEGREES AT 278.8,70 DEGREES AT 307.8 & 80 DEGREES AT 314.7	
318.9	3.7		ARK	AS TO 205.2-LOWER CONTACT SHARP BUT ANGLE LOST DUE TO BROKEN CORE-PY LESS THAN 1 PERCENT ALONG FRACTURE PLANE AT 316.0-FOLIATION POORLY DEVELOPED	85
331.0	12.1		ARK	AS TO 205.2-CORE AXIS 45 DEGREES AT 321.9,75 DEGREES AT 325.4 & 85 DEGREES AT 328.0-SPECKS PINK GARNETS AT 324.1,324.8 & 327.8-POSSIBLE CROSS-BEDDING AT 319.1-SEVERAL QUARTZ VEINS FOLDED PTYGMATICALLY AT 322.5	85
				FOOT OF HOLE	
				NO MAG OR CONDUCTOR EXPLANATION	

BOREHOLE RECORD
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DATE PROCESSED APR 01,1974

CHK'D.....

BOREHOLE#	PROPERTY	NTS#	SH#	ANOM#	DEPTH	AZIMUTH	DIP	LATITUDE	DEPARTURE	ELEVATION	LEVEL
5531C-0	SAKAMI PROJECT	33F 8W		9	298	160 00	-50 00	N 800	W 400		DATE.....

INCLINATION AND TROPARI TESTS

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP
100		-48 15	200		-48 00	298		-47 15						

TOPS OF WEDGES

COMMENTS

LOGGED BY..DEBICKI E J STARTED..MAR 24,1973 COMPLETED..MAR 27,1973 DRILLED BY INSPIRATION-AQ CORE-ALL CASING RECOVERED-PERMIT 550 ANOM NO 9&11

SAMPLE ENTRIES

DEPTH	LENGTH	MNZN ROCK	DESCRIPTION	ANG
0.0	0.0		COLLAR	
139.0	139.0		OVERBURDEN-SAND & GRAVEL-AW CASING TO 146.0 START OF CORE	
141.6	2.6	ARK	FG TO MG-DARK GREY-K-SPAR QTZ PLAGIO CLASE BIOTITE (INCREASING IN CONTENT TO BOTTOM OF UNIT) ALONG WEAKLY DEVE LOPED FOTN PLANES-OCCASSIONAL MG GRA INS OF WHITE QTZ-LIGHTER GREY (MORE SILICEOUS) FG BND AT 140.6 TO 140.8 WITH A 0.5 INCH QTZ CALCITE VEIN AT THE UPPER CONTACT OF THE BND & A 0.5 INCH QTZ CALCITE VEIN (LIGHT GREEN C OLOUR WITH A 0.2 INCH PINK WHITE FEL D&PAR VEIN INTRUDING QTZ CALCITE) AT THE LOWER CONTACT OF THE BND-OCCASSI ONAL SPKS PY LESS THAN 1 PCNT-LOWER CONTACT SHARP BUT ANGLE LOST DUE TO BROKEN CORE	
142.7	1.1	ARG	METAMORPHOSED-DARK GREY GREEN-FG TO MG FELDSPAR AMPHIBOLE LATHS ( ) ABUN DANT CHLORITE & BIOTITE (WELL DEVELO PED & SOME CG)-TEXTURE APPEARS GABBR OIC-FOTN WELL DEVELOPED BUT WAVY (PO SSIBLY A PYROCLASTIC FLOW) GENERALLY PARALLEL TO CORE ANGLE-LOWER CONTACT SHARP BUT LOST DUE TO BROKEN CORE-SP KS PY LESS THAN 1 PCNT	90
143.2	0.5	ARK	AS TO 141.6 BUT FG MEDIUM GREY & LES S BIOTITE-VERY SMALL WISPS OF QTZ VE INS ALONG SMALL CRISS-CROSSING FRACT URES-LOCAL SPKS PY LESS THAN 1 PCNT LOWER CONTACT SHARP AT 70 DEGREES	70
143.9	0.7	GWKE	METAMORPHOSED-DARK GREY GREEN FG TO MG-FELDSPAR AMPHIBOLE ( ) WELL DEVEL OPED ABUNDANT BIOTITE & CHLORITE ALO NG WELL DEVELOPED FOTN PLANES (FELDS PAR-CHLORITE-BIOTITE SCHIST)-SIMILA	70

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				R IN COMPOSITION TO PYROCLASTIC AS T O 142.7-SPKS PY LESS THAN 1 PCNT TSC -73-1563 @ 143.4 META-GWKE	
144.5	0.6		QTE	POSSIBLE ANDS-DACITE -QTZ GRAINS (VA RIATION IN SIZE WITH BIOTITE DEVELOP ED ALONG FOTN PLANES MINOR FELDSPAR (K-SPAR STAIN TEST NEGATIVE)-UPPER 1 INCH OF UNIT CONTAINS MG QTZ PORPHYR IES IN A FG SILICEOUS MATRIX-GREY MG LOWER CONTACT SHARP BUT ANGLE LOST D UE TO BROKEN CORE-AN 0.5 INCH QTZ VE IN CROSS-CUTS FOTN AT 144.3-SPKS PY LESS THAN 1 PCNT TSC-73-1564 @ 144.2 ARKOSIC QTE	80
145.1	0.6		GWKE	AS TO 143.9-FOTN WELL DEVELOPED BUT WAVY (SLIGHTLY FOLDED WITH FOLD AXIS AT 90 DEGREES TO CORE ANGLE)-AT 144. 5 TO 144.7 SMALL FRACTURE AT 90 DEGR EES TO CORE ANGLE-LOWER CONTACT SHAR P AT 75 DEGREES	80
146.2	1.1		QTE	AS TO 144.5-BNDD APPEARANCE DUE TO L IGHT GREY QTZ RICH ZONES (NOT VEINS) LESS THAN 0.5 INCHES WIDE PARALLEL T O CORE ANGLE-VERY SMALL FRACTURE AT 75 DEGREES TO CORE ANGLE THROUGH ENT IRE UNIT (QTZ FILLED)-SLIGHT DEVELOP MENT OF QTZ PORPHYRIES-QTZ VEINS LES S THAN 0.5 INCHES WIDE AT 145.7 & 14 6.1 WITH SHARP IRREGULAR CONTACTS-LO WER CONTACT SHARP AT 85 DEGREES-SPKS PY LESS THAN 1 PCNT	75
146.6	0.4		GWKE	AS TO 143.9-LOWER CONTACT SHARP AT 8 5 0 DEGREES	85
146.8	0.2		QTE	AS TO 144.5 BUT BETTER DEVELOPMENT O F QTZ PORPHYRIES-LOWER CONTACT SHARP BUT IRREGULAR-AT 146.7 TO 146.8 A 1 INCH IRREGULAR CLOT OF TUFF ON ONE S IDE OF CORE BUT NOT IN CONTACT WITH TUFF IN UNIT BELOW-SPKS PY LESS THAN 1 PCNT	80
147.6	0.8		GWKE	AS TO 143.9-LOWER CONTACT SHARP AT 7 5 DEGREES	80
147.9	0.3		QTE	AS TO 144.5-WELL DEVELOPED SMALL QTZ PORPHYRIES IN A LIGHT GREY MATRIX-LO WER CONTACT SHARP AT 75 DEGREES-SPKS PY LESS THAN 1 PCNT	70
148.4	0.5		QTE	AS TO 144.5 BUT SLIGHTLY DARKER GREY THAN ABOVE UNIT WITH POORER DEVELOPM ENT OF QTZ PORPHYRIES-SPKS PY LESS T HAN 1 PCNT-LOWER CONTACT SHARP BUT I RREGULAR	75
149.0	0.6		QTE	AS TO 148.4 BUT WITH 50 PCNT QTZ VEI NING (IRREGULAR CONTACTS)-MINOR SMAL L FRACTURES MAINLY AT 0 DEGREES-NON FOTC-SPKS PY LESS THAN 1 PCNT	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
149.4	0.4		QTE	AS TO 148.4-NON FOTD-SPKS PY LESS TH AN 1 PCNT	
150.0	0.6		QTE	AS TO 149.0-SPKS PY LESS THAN 1 PCNT NUMEROUS SMALL FRACTURES AT VARIOUS ANGLES-LOWER CONTACT SHARP BUT ANGLE LOST DUE TO BROKEN CORE	
151.8	1.8		GWKE	AS TO 143.9 BUT NOT AS DARK GREY GRE EN & FINER GRAINED-WELL DEVELOPED FO TN PLANES PARALLEL TO CORE ANGLE-SEV ERAL SMALL QTZ VEINS CRISS-CROSSING FOTN SOME DISPLACED BY NUMEROUS SMAL L FRACTURES-LOCAL SPKS PY LESS THAN 1 PCNT-LOWER CONTACT SHARP BUT IRREG ULAR	65
151.9	0.1		QTZ	WHITE MASS QTZ VEIN LOWER CONTACT S HARP BUT IRREGULAR	
152.2	0.3		QTE	AS TO 147.9-LOWER CONTACT IRREGULAR SEVERAL FRACTURES AT 0 DEGREES-SPKS PY LESS THAN 1 PCNT	
152.6	0.4		QTZ	AS TO 151.9-LOWER CONTACT IRREGULAR	85
153.6	1.0		QTE	AS TO 147.9-FRACTURE AT 153.1 TO 153 .5 AT 20 DEGREES-LOWER CONTACT SHARP AT 90 DEGTEES-SPKS PY LESS THAN 1 PC NT	
155.7	2.1		GWKE	AS TO 151.8-A 1 INCH CLOT OF WHITE M ASSIVE QTZ AT 154.3-CORE ANGLE 90 DE GREES AT TOP & 85 DEGREES AT BOTTOM OF UNIT-LOWER CONTACT SHARP AT 80 DE GREES-SPKS PY LESS THAN 1 PCNT	90
155.9	0.2		ARG	AS TO 142.7-LOWER CONTACT SHARP BUT UNDULATING	
157.2	1.3		GWKE	AS TO 143.9 BECOMING AS TC 151.8 TO BOTTOM OF UNIT-LOWER CONTACT SHARP B UT UNDULATING (BEDDING CONTACT)-SPKS PY LESS THAN 1 PCNT	
158.1	0.9		ARG	AS TO 147.2-LOWER CONTACT SHARP BUT UNDULATING (BEDDING CONTACT)	
158.6	0.5		RYDC	CRYSTAL TUFF-PORPHYRITIC GREY FG QTZ RICH PLAGIOCLASE BIOTITE CHLORITE MA TRIX WITH NUMEROUS SMALL QTZ PORPHYR IES-VERY WEAKLY FOLIATED (LINEATION OF BIOTITE)-SPKS PY LESS THAN 1 PCNT LOWER CONTACT SHARP BUT IRREGULAR TS C-73-1565 @ 158.4 RYDC-CRYSTAL TUFF	
159.2	0.6		ARG	AS TO 142.7-LOWER CONTACT SHARP BUT IRREGULAR	
159.5	0.3		GWKE	AS TO 151.8-SPKS PY LESS THAN 1 PCNT LOWER CONTACT SHARP AT 80 DEGREES	85
160.4	0.9		QTE	MICACEOUS DACITE (ANDESITE)-FG MEDI UM GREY (DIRTY QTE)-VERY QTZ RICH B IOTITE FELDSPAR ( )-NEGATIVE K-SPAR STAINING TEST-FINELY DISS PY LESS TH AN 1 PCNT-VERY WEAKLY FOTD (LINEATIO N OF BIOTITE)-SEVERAL VERY SMALL QTZ VEINS-AT 159.5 TO 159.9 SMALL FRACTU	85

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				RES-LOWER CONTACT GRADATIONAL OVER 0 .5 INCHES I-T- -TO 06I- B&L-h TSC-73 -1566 @ 160.1-ARKOSIC QTE	
160.7	0.3		QTZ	VEINING ( ) OR POSSIBLY A QTE GR ADING UPWARD INTO UNIT ABOVE (UPPER CONTACT GRADATIONAL)-BIOTITE & SEVER AL SMALL PINK GARNETS-LOWER CONTACT POSSIBLY SHEARED (INCORPORATION OF T UFFACEOUS MATERIAL FROM UNIT BELOW & POSSIBLE SLIGH BRECCIATION)-SMALL F RACTURES WITH MINOR DISPLACEMENT-LOW ER CONTACT IRREGULAR	
160.9	0.2		ARG	AS TO 147.2-LOWER CONTACT SHARP BUT ANGLE LOST DUE TO BROKEN CORE-PY AS SMALL BLEBS & ALONG FRACTURES AT TOP OF UNIT (REMOBILIZATION)	
161.6	0.7		GWKE	AS TO 151.8-LOCAL SPKS PY LESS THAN 1 PCNT & AS A SMALL CLOT AT TOP OF U NIT-LOWER CONTACT SHARP AT 85 DEGREE S	85
161.7	0.1		ARG	AS TO 147.2-LOWER CONTACT SHARP AT 8 0 DEGREES	
161.9	0.2		GWKE	AS TO 151.8-SMALL FRACTURE AT 25 DEG REES	85
162.2	0.3		QTE	MICACEOUS DACITE (ANDESITE)-AS TO 1 60.4-FINELY DISS PY LESS THAN 1 PCNT SEVERAL SMALL FRACTURES-LOWER CONTAC T SHARP BUT UNDULATING	
163.1	0.9		GWKE	AS TO 151.8-LOWER CONTACT SHARP BUT IRREGULAR-LOCAL SPKS PY LESS THAN 1 PCNT	85
163.4	0.3		QTE	MICACEOUS DACITE (ANDESITE)-AS TO 1 60.4-NETWORK OF VERY SMALL FRACTURES PY AS SMALL BLEBS & ALONG FRACTURES UP TO 1 PCNT (SECONDARY & REMOBILIZE D)	
163.6	0.2		GWKE	AS TO 143.9-LOWER CONTACT SHARP BUT IRREGULAR	
164.0	0.4		QTE	AS TO 160.4-LOWER CONTACT SHARP AT 8 5 DEGREES-MANY SMALL FRACTURES SOME FILLED WITH QTZ-FINELY DISS PY LESS THAN 1 PCNT	
164.1	0.1		GWKE	AS TO 143.9-LOWER CONTACT IRREGULAR WITH PROJECTIONS INTO UNIT BELOW	
164.3	0.2		QTE	AS TO 160.4-LOWER CONTACT SHARP AT 5 5 DEGREES-UNIT CONTAINS IRREGULAR QT Z VEINING SMALL FRACTURES & IS POSSI BLY BRECCIATED-SPKS PY LESS THAN 1 P CNT	
164.5	0.2		ARG	AS TO 142.7-LOWER CONTACT SHARP BUT IRREGUALR-MINOR QTZ VEINING IN LAST 0.5 INCHES OF UNIT	
164.7	0.2		QTE	AS TO 160.4-LOWER CONTACT SHARP BUT UNDULATING-FINELY DISS PY LESS THAN 1 PCNT	

DEPTH	LENGTH	MNZN ROCK	DESCRIPTION	ANG
164.9	0.2		GWKE AS TO 143.9-LOWER CONTACT SHARP BUT UNDULATING	
166.3	1.4		GWKE AS TO 151.8-LOWER CONTACT SHARP BUT UNDULATING-SPKS PY LESS THAN 1 PCNT	80
166.7	0.4		GWKE AS TO 143.9-LOWER CONTACT SHARP AT 7 5 DEGREES-SPKS PY LESS THAN 1 PCNT	80
167.0	0.3		QTE AS TO 160.4-SEVERAL SMALL FRACTURES & BIOTITE SEAMS AT 70 DEGREES-SPKS P Y LESS THAN 1 PCNT	
168.3	1.3		GWKE AS TO 143.9-LOWER CONTACT SHARP-SPKS PY LESS THAN 1 PCNT	85
170.2	1.9		RYDC PORPHYRITIC-AS TO 158.6-SEVERAL SMAL L FRACTURES-WEAKLY FCTD AT 80 DEGREE S-LOWER UNIT HAS SEVERAL PCRJECTIONS UP TO 1 INCH LONG INTO THIS UNIT-SPK S PY LESS THAN 1 PCNT	80
172.1	1.9		GWKE AS TO 151.8-MAY BE TWO BEDS WITH A S LIGHT GRAIN SIZE DIFFERENCE ACROSS S HARP CONTACT AT 171.7 (MG ABCVE,FG B ELOW)-SPKS PY LESS THAN 1 PCNT	85
172.6	0.5		ARG AS TO 142.7 BUT FINER GRAINED-LOWER CONTACT SHARP AT 75 DEGREES	
174.0	1.4		GWKE AS TO 143.9-CORE ANGLE 80 DEGREES AT TOP OF UNIT & 85 DEGREES AT BCTTOM O F UNIT-LOWER CONTACT SHARP AT 80 DEG REES-SPKS PY LESS THAN 1 PCNT	80
174.3	0.3		GWKE AS TO 160.4 BUT MORE BIOTITE & AMPHI BOLE -SLIGHTLY DARKER GREY-SPKS PY L ESS THAN 1 PCNT-LOWER CONTACT SHARP AT 90 DEGREES	
174.6	0.3		ARG AS TO 142.7 BUT FINER GRAINED WITH S EVERAL PYROXENE ( ) GRAINS UP TO 0.2 INCHES IN SIZE AT BOTTOM OF UNIT-LOW ER CONTACT SHARP AT 80 DEGREES	85
175.4	0.8		GWKE AS TO 174.3-SPKS PY LESS THAN 1 PCNT LOWER CONTACT SHARP AT 75 DEGREES TS C-73-1567 @ 174.9 META GWKE	
178.6	3.2		GWKE AS TO 174.3 BUT WITH OCCASSIONAL SMA LL QTZ PORPHYRIES-SEVERAL SMALL FRAC TURES & QTZ VEINS-SPKS PY LESS THAN 1 PCNT & ALONG FRACTURE PLANES AT 17 6.4-LOWER CONTACT SHARP AT 7C DEGREE S	
180.9	2.3		AMPH SIMILAR AS TO 142.7 BUT ABUNDANT AMP HIBOLE BIOTITE & ROCK FRAGMENTS UP TO 0.5 INCHES IN SIZE WITH FOLIATION FLOWING AROUND THESE-GRAIN SIZE DIFF ERENCES GIVE LAYERED APPEARANCE-POSS IBLE FLOW CONTACT AT 179.8-LOWER CON TACT SHARP BUT UNDULATING TSC-73 -1568 @ 179.0 BIO AMPH	
181.5	0.6		GWKE AS TO 143.9-LOWER CONTACT SHARP AT 8 0 DEGREES	85
182.9	1.4		GWKE AS TO 174.3-SPKS PY LESS THAN 1 PCNT LOWER CONTACT SHARP AT 80 DEGREES	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
186.1	3.2		ARG	AS TO 142.7 WITH FLOW CONTACT AT 184 .8 (CONTORTED FOTN & ROCK FRAGMENTS UP TO 0.5 INCHES)-SEVERAL PYROXENE ( ) GRAINS AT 184.9 UP TO 0.4 INCHES IN SIZE-LOWER CONTACT SHARP AT 80 DE GREES	
186.6	0.5		GWKE	AS TO 174.3-SPKS PY LESS THAN 1 PCNT SMALL FRACTURES-LOWER CONTACT SHARP AT 80 DEGREES	
186.7	0.1		GWKE	AS TO 143.9-LOWER CONTACT SHARP BUT UNDULATING	85
188.2	1.5		ARG	AS TO 142.7 WITH SEVERAL GABBROIC R OCK FRAGMENTS UP TO 1 INCH AT UPPER CONTACT OF UNIT-LOWER CONTACT SHARP BUT IRREG ULAR-FOTN WAVY TSC-73-1569 @ 186.8 META ARG		80
188.5	0.3		QTZ	VEIN-WHITE MASS INTRUDING INTO TUF F (AS TO 151.8)-CONTACTS IRREGULAR	
188.8	0.3		GWKE	AS TO 151.8-SEVERAL SMALL QTZ VEINS SPKS PY LESS THAN 1 PCNT-LOWER CONTA CT SHARP BUT IRREGULAR	
189.9	1.1		GWKE	AS TO 143.9-LOWER CONTACT GRADATIONA L OVER 1 INCH	75
190.2	0.3		GWKE	AS TO 151.8-LOWER CONTACT GRADATIONA L OVER 0.5 INCHES	
190.5	0.3		GWKE	AS TO 143.9-LOWER CONTACT SHARP AT 8 5 DEGREES	85
191.1	0.6		GWKE	AS TO 151.8-LOWER CONTACT SHARP AT 8 5 DEGREES-SPKS PY LESS THAN 1 PCNT	
193.6	2.5		GWKE	AS TO 143.9-LOWER CONTACT SHARP AT 8 5 DEGREES	85
193.8	0.2		ARG	AS TO 142.7-LOWER CONTACT SHARP BUT ANGLE LOST DUE TO BROKEN CORE	
195.2	1.4		RYDC	PORPHYRITIC-AS TO 158.6-LOWER CONTAC T SHARP AT 90 DEGREES-SPKS PY LESS T HAN 1 PCNT-FRACTURE AT 0 DEGREES	
199.1	3.9		GWKE	AS TO 151.8 BECOMING COARSER GRAINED TOWARDS BOTTOM-SHARP CONTACT WITH FI NER GRAINED UNIT BELOW AT 85 DEGREES SPKS PY LESS THAN 1 PCNT	85
201.6	2.5		GWKE	AS TO 151.8-LOWER CONTACT SHARP AT 9 0 DEGREES-AT 200.6 A 0.5 INCH BAND O F PYROXENE ( ) GRAINS UP TO 0.5 INCH ES IN SIZE-SPKS PY LESS THAN 1 PCNT	90
206.5	4.9		GWKE	AS TO 174.3-SPKS PY LESS THAN 1 PCNT LOWER CONTACT SHARP AT 85 DEGREES	
218.1	11.6		QTE	FG DARK GREY AT TOP OF BED BECOMING SLIGHTLY COARSER GRAINED & LIGHTER G REY TOWARDS BOTTOM OF BED (MAY BE EQ UIVALENT TO ARKOSE AS TO 236.5)-UNIT CONTAINS SEVERAL BEDS WITH SHARP CON TACTS-K-FLEDSPAR,QTZ,BIOTITE RICH AL ONG FOTN PLANES-SMALL FRACTURES THRO UGHOUT AT VARIOUS ANGLES-SMALL WISPS OF QTZ VEINS PARALLEL TO FOTN PLANES	90

DEPTH	LENGTH	MNZN ROCK	DESCRIPTION	ANG
			SOME FOLDED PTYGMATICALLY-SPKS PY LESS THAN 1 PCNT-LOWER CONTACT SHARP AT 75 DEGREES TSC-73-1570 @ 207.2 MICACEOUS QTE	
218.5	0.4	GWKE	AS TO 143.9-LOWER CONTACT SHARP BUT ANGLE LOST DUE TO BROKEN CORE-POSSIBLE SMALL (0.5 INCH) SHEAR WITH QTZ INJECTION AT 218.4	85
228.4	9.9	QTE	AS TO 218.1-UNIT CONTAINS AT LEAST 6 BEDS-SPKS PY LESS THAN 1 PCNT-LOWER CONTACT SHARP AT 85 DEGREES	90
228.6	0.2	GWKE	AS TO 143.9-LOWER CONTACT SHARP AT 80 DEGREES	80
228.8	0.2	QTE	AS TO 218.1-FG DARK GREY PART OF A BED-LOWER CONTACT SHARP AT 80 DEGREES	80
228.9	0.1	GWKE	AS TO 143.9-LOWER CONTACT SHARP AT 80 DEGREES	80
229.1	0.2	QTE	AS TO 228.8-LOWER CONTACT SHARP AT 80 DEGREES	80
229.3	0.2	GWKE	AS TO 143.9-LOWER CONTACT SHARP AT 80 DEGREES	80
229.7	0.4	QTE	AS TO 218.1-LOWER CONTACT SHARP BUT ANGLE LOST DUE TO BROKEN CORE	85
230.0	0.3	GWKE	AS TO 143.9-LOWER CONTACT SHARP AT 80 DEGREES	85
233.2	3.2	QTE	AS TO 218.1-LOWER CONTACT SHARP AT 85 DEGREES-BEDDING UNCONFORMITY AT 231.8	85
233.5	0.3	GWKE	AS TO 143.9-LOWER CONTACT IRREGULAR BUT SHARP-SMALL QTZ MASS AT 233.4 WITH IRREGULAR CONTACTS	85
233.6	0.1	QTE	AS TO 218.1-LOWER CONTACT SHARP AT 80 DEGREES	85
233.7	0.1	GWKE	AS TO 143.9-LOWER CONTACT SHARP AT 85 DEGREES	85
234.8	1.1	QTE	AS TO 218.1-LOWER CONTACT SHARP AT 90 DEGREES	85
234.9	0.1	RYOC	PORPHYRITIC-AS TO 158.6-LOWER CONTACT SHARP AT 90 DEGREES-SPKS PY LESS THAN 1 PCNT	
235.6	0.7	QTE	AS TO 218.1-LOWER CONTACT SHARP AT 85 DEGREES-WEAKLY FOTD	85
236.5	0.9	ARK	ANDESITE( )-FG MEDIUM CREAM GREY COLOUR-QTZ FELDSPAR BIOTITE (ALONG FOTN PLANES)-OCCASSIONAL MG WHITE QTZ PORPHYRY-WEAKLY FOTD-SIMILAR TO COARSER GRAINED PARTS OF BED AS TO 218.1 (MAY BE SEQUENCE INTERCALATED ARKOS & VOLCANICS)-PY LESS THAN 1 PCNT AS BLEBS ALONG SEVERAL FRACTURE PLANES-SEVERAL SMALL QTZ VEINS-LOWER CONTACT SHARP AT 90 &EG REES TSC-73-1571 @ 236.4 META ARK	
237.4	0.9	QTE	AS TO 218.1-LOWER CONTACT SHARP AT 90 DEGREES	85

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
237.6	0.2		GWKE	AS TO 143.9-LOWER CONTACT SHARP AT 9	90
				0 DEGREES	
238.9	1.3		QTE	AS TO 218.1-LOWER CONTACT SHARP AT 9	90
				0 DEGREES	
239.3	0.4		ARK	AS TO 236.5-LOWER CONTACT SHARP BUT IRREGULAR	
239.7	0.4		QTZ	VEIN-WHITE MASS -LOWER CONTACT SHAR P BUT IRREGULAR	
259.1	19.4		ARK	AS TO 236.5-NUMEROUS SMALL FRACTURES WITH PY AS BLEBS LESS THAN 1 PCNT AL UNG FRACTURE PLANES-SPKS PY LESS THA N 1 PCNT-LOWER CONTACT SHARP AT 90 D EGREES-WEAKLY FOTD-AT 244.7 A 0.5 IN CH BND WITH SHARP LOWER CONTACT & IR REGULAR UPPER CONTACT-VFG-TURQUOISE WITH SMALL QTZ GARINS-VERY FINELY LA MINATED WITH PLASTIC FLOW-SEVERAL QT Z CEINS (LESS THAN 0.5 INCHES WIDE) TSC-73-1572 @ 244.7 META ARK (WITH B ED OF RHYODACITE CRYSTAL TUFF.)	
264.1	5.0		QTE	AS TO 218.1-LOWER CONTACT SHARP BUT IRREGULAR-SPKS PY LESS THAN 1 PCNT-U NIT CONTAINS 7 BEDS WITH SHARP CONTA CTS	90
264.3	0.2		QTZ	VEIN WHITE MASS -LOWER CONTACT SHAR P BUT IRREGULAR	
287.8	23.5		QTE	AS TO 218.1 WITH LOWER PARTS OF BEDS SIMILAR TO ARKOSE (AS TO 236.5)-UNIT CONTAINS 7 BEDS WITH SEVERAL CTHER P OSSIBLE BEDS (GRADATIONAL CONTACTS)- SPKS PY LESS THAN 1 PCNT-NUMERCUS SM ALL FRACTURES SOME WITH MINOR DISPLA CEMENT SOME QTZ FILLED & OTHERS WITH BLEBS PY LESS THAN 1 PCNT-CTHER SMAL L QTZ VEINS LESS THAN 0.5 INCHES WID E-AT 271.1 TO 272.2 SHEAR UP TO 1 IN CH WIDE AT 20 DEGREES WITH EXTENSIVE BRECCIATION & SHARP CONTACTS	90
288.0	0.2		GWKE	AS TO 143.9-LOWER CONTACT SHARP AT 7	80
				5 DEGREES	
298.0	10.0		QTE	AS TO 287.8-POSSIBLY 2 BEDS-NUMEROUS SMALL FRACTURES WITH BLEBS OF PY 1 P CNT-SPKS PY LESS THAN 1 PCNT-SEVERAL SMALL QTZ VEINS FOOT OF HOLE	90
				NO MAG CR CONDUCTOR EXPLANATION	
				SPKS PY LESS THAN 1 PCNT THROUGHTOUT TOP HALF OF HOLE	
				THIN SECTIONS AT 143.4, 144.2, 158.4 160.1, 174.9, 179.0 186.8, 207.2, 236.4 244.7	

BOREHOLE RECORD
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DATE PROCESSED APR 01,1974

CHK'D.....

BOREHOLE#	PROPERTY	NTS#	SH#	ANOM#	DEPTH	AZIMUTH	DIP	LATITUDE	DEPARTURE	ELEVATION	LEVEL
55309-0	SAKAMI PROJECT	33F 8W		13	416	130 00	-45 00	N 800	W 400		

DATE.....

INCLINATION AND TROPARI TESTS

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP
100		-45 15	200		-47 00	300		-50 30	400		-51 30			

TOPS OF WEDGES

COMMENTS

LOGGED BY..DEBICKI E J STARTED..MAR 20,1973 COMPLETED..MAR 22,1973 DRILLED INSPIRATION-AQ CORE-ALL CASING RECOVERED-PERMIT AREA 550

SAMPLE ENTRIES

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
0.0	0.0			COLLAR	
130.0	130.0			OVERBURDEN-SAND & GRAVEL-130 FEET AW CASING-START OF CORE	
135.8	5.8		ARK	METAMORPHOSED-GREY TO DARK GREY-MG WITH FG BND LESS THAN 1 INCH WIDE AT 131.6-QTZ,K-SPAR,PLAGIOCLASE,CHLORITE,MUSCOVITE,RICH IN BIOTITE ALONG FOLIATION PLANES-PY LESS THAN 1 PCNT DISS LOCALLY-CORE ANGLE 70 DEGREES AT TOP OF UNIT TO 85 DEGREES AT BASE OF UNIT-LOWER CONTACT SHARP BUT ANGLE LOST DUE TO BROKEN CORE-LOCAL QTZ VEINING (LESS THAN 0.1 INCHES WIDE) PARALLEL TO FOTN	70
146.2	10.4		ARK	AS TO 135.8 BUT FG (DARK GREY) AT TOP OF UNIT GRADING INTO MG (MEDIUM GREY) TO BASE OF UNIT (GRADED BEDDING) LOCAL BNDS BIOTITE (LESS THAN 0.1 INCHES WIDE) PARALLEL TO FOTN-QTZ VEINING (LESS THAN 0.1 INCHES WIDE) PARALLEL TO & CROSS-CUTTING FOTN-IRREGULAR 0.5 INCH QTZ VEIN AT 136.0-LOCAL SMALL PINK GARNETIFEROUS ZONES-AT 138.2 & 139.1,0.5 INCH BNDS (GRADATIONAL CONTACTS) OF LIGHT GREY MG QTZ BIOTITE & GARNET (POSSIBLY REWORKED SEDIMENT)-LOCAL DISS PY LESS THAN 1 PCNT-LOWER CONTACT SHARP AT 70 DEGREES	85
159.4	13.2		ARK	AS TO 146.2-LIGHT GREY QTZ-RICH BND AT 148.5 TO 148.7 WITH CONTACTS AT 65 DEGREES-SMALL PINK GARNETS AT 148.8 TO 149.3-MINOR QTZ VEINING PARALLEL TO FOTN-LOWER CONTACT SHARP BUT ANGLE LOST DUE TO BROKEN CORE-CORE AXIS 70 DEGREES AT TOP OF UNIT,65 DEGREES AT 148.5 & 85 DEGREES AT BASE OF UNIT	70
160.4	1.0		ARG	METAMORPHOSED-MG-GREY GREEN-FOTD-BIO	80

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				TITE RICH,QTZ&FELDSPAR PORPHYRIES LE SS THAN 0.5 INCHES,CHLORITE-CONTACTS SHARP BUT ANGLES LOST DUE TO BROKEN	
166.7	6.3		ARK	CORE-AN 0.5 INCH QTZ VEIN AT 159.5 AS TO 146.2-MINOR LOCAL QTZ VEINING- CORE AXIS AT TOP OF UNIT 85 DEGREES TO 80 DEGREES AT BOTTOM OF UNIT-LOWE R CONTACT 70 DEGREES	65
167.2	0.5		ARG	AS TO 160.4 BUT DARKER GREY GREEN-LO WER CONTACT 70 DEGREES	70
				C-73-1557 @ 166.8' META ARG	
174.1	6.9		ARK	AS TO 146.2-MINOR LOCAL QTZ VEINING- LOCAL DISS PY LESS THAN 1 PCNT AT 17 0.8 TO 171.2-LOWER CONTACTS OF BEDS AT 172.2 (75 DEGREES) & 172.7(75 DE GREES)-QTZ VEINING LESS THAN 0.5 INC HES IN WIDTH PARALLEL TO & CROSS-CUT TING FOTN	75
174.4	0.3		ARK	MICACEOUS GARNETIFEROUS QTZ (Q) MAY BE A VEIN OR DEPOSITIONAL FEATURE-MG LIGHT GREY-SHARP UPPER & LOWER CONTA CTS AT 60 DEGREES & 70 DEGREES RESPE CTIVELY	
				C-73-1558 @ 174.3' META ARK	
193.1	18.7		ARK	AS TO 146.2-LOCAL MINOR GARNETIFEROU S SECTIONS-DISS PY LESS THAN 1 PCNT AT 178.6 TO 178.9 & 183.0 TO 183.1-B NDG DUE TO SLIGHT GRAIN SIZE & COLOU R DIFFERENCES & BIOTITE-RICH ZONES W ITH SHARP & GRADATIONAL CONTACTS-GRA DED BEDDING INDISTINCT-MINOR LOCAL Q TZ VEINING (LESS THAN 0.2 INCHES WID E) PARALLEL TO FOTN	80
193.9	0.8		QTZ	EXTENSIVE (75 PCNT) QTZ VEINING (POS SIBLY ALONG A SHEAR) WITH CG AMPHIBO LE,MINOR BIOTITE & CHLORITE,ARKOSE R OCK FRAGMENTS (BRECCIATION)-DISS PY LESS THAN 1 PCNT-UPPER & LOWER CONTA CTS IRREGULAR-REPLACEMENT OF ARKOSE	
198.0	4.1		ARK	AS TO 146.2 BUT NO GRADED BEDDING-MI NOR LOCAL QTZ VEINING-CORE AXIS AT T OP OF UNIT 80 DEGREES & 70 DEGREES A T BOTTOM OF UNIT-LOWER CONTACT SHARP AT 70 DEGREES WITH QTZ VEIN	80
198.9	0.9		ARK	AS TO 146.2 BUT WITH 50 PCNT QTZ VEI NS (EACH LESS THAN 1 INCH WIDE) AS A T 193.9-LOWER CONTACT SHARP AT 60 DE GREES	60
230.0	31.1		QTE	METAMORPHOSED-PLAGIOCLASE,K-SPAR,CHL ORITE,BIOTITE-RICH FOLIATION PLANES- MG WITH LOCAL FG SECTIONS (GRADATION AL CONTACTS)-LOCAL LIGHTER GREY SECT IONS (MORE SILICEOUS)-QUARTZ PEBBLES (Q) THROUGHOUT COARSEST AT 228.7 TO 229.2 (LESS THAN 0.1 INCHES IN SIZE)	60

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				LOCAL QTZ VEINS LESS THAN 0.5 INCHES IN WIDTH PARALLEL TO & CROSS-CUTTING FOTN-LOCAL DISS PY LESS THAN 1 PCNT ASSOCIATED WITH LIGHTER GREY SECTION S ESPECIALLY AT 247.6 TO 255.0-CORE AXIS 60 DEGREES AT TOP OF UNIT & 70 DEGREES AT 228.5 C-73-1559 @ 204.0' GRITTY QTE	
231.9	1.9		QTE	AS TO 230.0 BUT LIGHTER GREY WITH LOCAL DISS PY LESS THAN 1,PCNT-QTZ VEINING AT 230.2 TO 230.3 & 231.7 TO 231.9 AS AT 193.9	
255.8	23.9		QTE	AS TO 230.0 BUT FINER GRAINED-LOCAL DISS PY LESS THAN 1 PCNT-LOWER CONTACT IRREGULAR	80
256.6	0.8		QTE	AS TO 230.0 BUT HIGHLY SILICIFIED WITH A SMALL SHEAR ZONE AT 256.0 TO 256.1 (BRECCIATED)-FINELY BNDD & CONTORTED-LOWER CONTACT IRREGULAR	
266.5	9.9		QTE	AS TO 230.0-LOCAL DISS PY LESS THAN 1 PCNT ASSOCIATED WITH LIGHTER GREY SECTIONS-CORE AXIS 70 DEGREES AT 258.1 & 90 DEGREES AT 258.2(POSSIBLE CROSS-BEDDING)-LOWER CONTACT GRADATIONAL AT 80 DEGREES-LOCAL QTZ VEINS MAINLY CROSS-CUTTING FOTN & SOME FOLDED PTYGMATICALLY	80
267.9	1.4		QTE	AS TO 230.0 BUT WITH NUMEROUS QTZ VEINS (LESS THAN 0.1 INCHES WIDE PARALLEL TO FOTN & FOLDED PTYGMATICALLY-LOWER CONTACT GRADATIONAL	80
283.2	15.3		QTE	AS TO 230.0-LOCAL DISS PY LESS THAN 1 PCNT-EXTENSIVE QTZ VEINING 276.2 TO 276.4-CORE AXIS 75 DEGREES AT TOP & 85 DEGREES AT BOTTOM OF UNIT	75
283.7	0.5		QTZ	VEIN (Q) OF QTZ,FELDSPAR,AMPHIBOLE,CHLORITE,BIOTITE-UPPER & LOWER CONTACT SHARP BUT IRREGULAR	65
286.3	2.6		QTE	AS TO 230.0-LOWER CONTACT SHARP BUT ANGLE LOST DUE TO BROKEN CORE-LOCAL DISS PY LESS THAN 1 PCNT	85
286.5	0.2		ARG	AS AT 160.4-DISS PY LESS THAN 1 PCNT LOWER CONTACT SHARP AT 65 DEGREES	
288.1	1.6		QTE	AS TO 230.0-LOCAL DISS PY LESS THAN 1 PCNT-QTZ VEINS (LESS THAN 0.05 INCHES WIDE AT 287.5 TO 287.6-LOWER CONTACT SHARP BUT LOST DUE TO BROKEN CORE	
288.3	0.2		ARG	AS TO 160.4-LOWER CONTACT SHARP AT 75 DEGREES-LOCAL DISS PY LESS THAN 1 PCNT	
293.0	4.7		QTE	AS TO 230.0-LOCAL DISS PY LESS THAN 1 PCNT	85
298.0	5.0	MVVW	QTE	AS TO 230.0-DISSPY 1 PCNT	85
298.6	0.6	MVW	QTE	AS TO 230.0 BLEBS PY 1-2 PCNT	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
298.8	0.2		SEAM	MUD SEAM	
299.1	0.3		QTZ	WHITE MASSIVE QUARTZ VEIN-BROKEN COR E	
303.6	4.5	MVVW	ARG	AS TO 160.4 BUT LIGHTER GREY GREEN WITH LATHS AMPHIBOLE (Q) PARALLEL TO FOTN-DISS PY 1 PCNT-MINOR LOCAL QTZ VEINS LESS THAN 0.5 INCHES WIDE C-73-1560 @ 301.6' META ARG	50
321.9	18.3		ARG	AS TO 160.4 BECOMING LIGHTER IN COLC UR TO BOTTOM OF UNIT WITH LIGHT GREY ZONES (MORE SILICEOUS & GRADATIONAL COLCUR CHANGE AT CONTACTS)-CHLORITE RICH-POSSIBLE INTERCALATED SEDIMENTS & TUFF BELOW 310.0 WITH GRADATIONAL CONTACTS-QTZ CHLORITE BIOTITE VEINS (Q) LESS THAN 1 INCH WIDE AT 303.2, 303.9,312.0,315.9,316.9&318.5-NUMERO US LOCAL FRACTURES MAINLY AT 0 DEGRE ES ESPECIALLY PROMINENT AT 303.0 TO 304.0,315.0 TO 317.5&319.5 TC 321.2-LOCAL DISS PY LESS THAN 1 PCNT-CORE ANGLE 80 DEGREES AT TOP & 70 DEGREES AT BOTTOM OF UNIT	60
346.1	24.2		QTE	AS AT 230.0-QUARTZ CHLORITE BIOTITE VEIN (Q) LESS THAN 1 INCH WIDE AT 32 2.9,328.1 & 328.5 WITH SHARP IRREGUL AR CONTACTS (MAY BE DEPOSITIONAL FEA TURES)-SEVERAL LIGHTER GREY (MORE SI LICEOUS) SECTIONS-NUMEROUS QTZ VEINS (LESS THAN 1 INCH WIDE) WITH IRREGUL AR CONTACTS AND AS SMALL FIBROUS NET WORK OF VEINS-NUMEROUS SMALL FRACTUR ES AT VARIOUS ORIENTATIONS,SOME WITH QTZ FILLING,SOME WITH MINOR DISPLACE MENT-UNIT MAY CONTAIN SEVERAL SMALL BEDS (CONTACTS GRADATIONAL & INDISTI NCT)-LOCAL DISS PY LESS THAN 1 PCNT BLEBS OF PY LESS THAN 1 PCNT ALONG F RACTURE PLANES AT 328.5 TO 329.0,330 .2 TO 330.6,331.5 TO 333.6-AT 327.2 & 334.4 HAVE 0.2 INCH PY BNDS-CROSS-BEDDING AT 327.0,334.5 & 344.9-LOWER CONTACT SHARP AT 85 DEGREES CORE ANG LE 85 DEGREES AT 324.1, 70 DEGREES A T 326.0, 80 DEGREES AT 338.4-AT 339. 4 TO 339.5 QTZ FRAGMENTS (ANGULAR) L ESS THAN 0.1 INCHES	65
348.7	2.6		ARK	FELDSPATHIC QUARTZITE (POSSIBLY TUFF)-FG & DARK GREY AT TOP (ARKOSIC) GR ADING INTO MG & LIGHT GREY BUFF AT B OTTOM OF UNIT (FELDSPATHIC QTE)-MINO R K-SPAR,CHLORITE & MICA INCREASING IN CONTENT TOWARDS TOP OF UNIT-LOWER CONTACT SHARP AT 85 DEGREES-AT 346.6 A 0.5 INCH WHITE QTZ VEIN WITH SHARP	

DEPTH	LENGTH	MNZN ROCK	DESCRIPTION	ANG
			CONTACTS AT 80 DEGREES-AT 347.5 TO 3 48.7 VEINS (Q) OF CHLORITE QTZ AMPHI BOLE (Q) AND DARK GREY GREEN VEIN MA TERIAL (Q) WITHIN THE QTZ VEIN & AS A SEPARATE NETWORK OF VEINS-POSSIBLE INJECTION OF QTZ ALONG SHEAR WITH MI NOR BRECCIATION (Q) OCCASIONAL SPKS PY LESS THAN 1 PCNT	
			C-73-1561 @ 348.3' ARKOSIC QTE	
349.2	0.5	ARK	AS TO 160.4-LOWER CONTACT SHARP AT 9 0 DEGREES	90
360.1	10.9	QTE	AS TO 346.1 BUT LESS FRACTURED-LOCAL DISS PY LESS THAN 1 PCNT-UNIT MAY CO NTAIN SEVERAL SMALL BEDS (GRADATIONA L CONTACTS)-LOWER CONTACT SHARP AT 7 0 DEGREES-CORE ANGLE 90 DEGREES AT 3 49.5,80 DEGREES AT 352.5 & 80 DEGRE ES AT 359.5	90
360.3	0.2	ARG	AS AT 160.4-LOWER CONTACT SHARP BUT ANGLE LOST DUE TO BROKEN CORE	85
374.3	14.0	QTE	AS AT 346.1-LOCAL DISS PY LESS THAN 1 PCNT-LOWER CONTACT IRREGULAR (BEDD ING UNCONFORMITY)-MINOR SMALL SCALE FRACTURES AT 371.0 TO 373.0 WITH SPK S PY LESS THAN 1 PCNT-QTZ CHLORITE B IOTITE VEINS (Q) LESS THAN 1 INCH WI DE AT 362.5,368.0,368.5 & 374.1-FINE NETWORK OF QTZ VEINING AT 372.8 TO 3 73.0	85
382.8	8.5	ARK	AS TO 348.7-ARKOSE AT TOP GRADING IN TO FELDSPATHIC QUARTZITE (TUFF) AT BASE OF UNIT-QTZ CHLORITE BIOTITE VE IN (Q) AT 376.9 (LESS THAN 0.5 INCHE S WIDE)-MINOR FRACTURING IN ARKOSE B ECOMING EXTENSIVE IN FELDSPATHIC QTE WITH DARK BLUE-GREEN MATERIAL (Q) FI LLING FRACTURES-LOCAL SPKS PY LESS T HAN 1 PCNT	85
385.0	2.2	ARK	AS TO 348.7-LOWER CONTACT GRADATIONA L-AT 383.2 TO 383.7 SMALL FRACTURE A T 75 DEGREES TO CORE ANGLE WITH MINO R DISPLACEMENT AT 383.4-LOCAL SPKS P Y LESS THAN 1 PCNT-CORE ANGLE 85 DEG REES AT 382.9, 75 DEGREES AT 383.4 & 85 DEGREES AT 384.5	85
391.4	6.4	ARK	AS TO 348.7 LOWER CONTACT IRREGULAR (BEDDING PLANE UNCONFORMITY)-QTZ VEI NS AT 385.7,387.6 (FOLDED PTYGMATIC ALLY)& 388.0 (LESS THAN 0.5 INCHES W IDE)-QTZ CHLORITE BIOTITE VEIN AT 39 0.8 (1 INCH WIDE) WITH IRREGULAR CON TACTS-SMALL SCALE FRACTURING WITH FR ACTURE FILLING DARK GREEN BLUE MATER IAL (Q) AT 391.0 TO 391.4-LOCAL SPKS PY LESS THAN 1 PCNT-UNIT DOES NOT GR	85

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				ADE INTO AS PURE A FELDSPATHIC QTE (TUFF + AT BASE AS AT 348.7	
393.8	2.4		ARK	AS TO 348.7-SMALL FRACTURES AT 392.2 TO 393.8 AT VARIOUS ANGLES-VEINS OF DARK BLUE GREEN MATERIAL (Q) AT 393.5 TO 393.8-LOCAL SPKS PY LESS THAN 1 PCNT-LOWER CONTACT SHARP AT 70 DEGREES	70
407.4	13.6		ARK	AS TO 348.7-AT 393.8 TO 395.6 DARK GREY ARKOSIC UNIT GRADING INTO BUFF GREY FELDSPATHIC QTE (TUFF) WITH MICA AND CHLORITE TO BOTTOM OF UNIT-NUMEROUS SMALL CRISS-CROSSING FRACTURES SOME WITH DISPLACEMENTS SOME WITH FILLING OF A DORK BLUE GREEN MATERIAL (Q) NUMEROUS QTZ BIOTITE CHLORITE AMPHIBOLE (Q) & DARK GREEN VITREOUS MINERAL (Q) VEINS (Q) LESS THAN 1 INCH WIDE WITH SHARP TO IRREGULAR CONTACTS (SOME HAVE BEEN FAULTED WITH UP TO 0.5 INCH DISPLACEMENTS)-AT 406.1 TO 406.2 CG QTZ AMPHIBOLE & DARK GREEN VITREOUS MINERAL (Q) VEIN WITH IRREGULAR CONTACTS (POSSIBLE SHEAR ZONE SLIGHTLY BRECCIATED)-LOCAL SPKS PY LESS THAN 1 PCNT-LOWER CONTACT SHARP AT 70 DEGREES-CORE ANGLE 85 DEGREES AT 394.5, 75 DEGREES AT 398.4, 70 DEGREES AT 401.1, 80 DEGREES AT 402.9, & 80 DEGREES AT 404.0 C-73-1562 @ 402.9' META ARK	85
408.6	1.2		ARK	AS TO 348.7-LOCAL SPKS PY LESS THAN 1 PCNT-LOWER CONTACT GRADATIONAL & IRREGULAR-ARKOSE UNIT GRADES RAPIDLY INTO FELDSPATHIC QTE (TUFF) AT 407.8	65
410.3	1.7		ARK	AS TO 348.7-LOWER CONTACT SHARP BUT IRREGULAR (DEPOSITIONAL UNCONFORMITY) LOCAL SPKS PY LESS THAN 1 PCNT & A 0.05 INCH SEAM PY AT 408.8 PARALLEL TO FOTN	65
416.0	5.7		ARK	FG ARKOSIC UNIT (AS TO 348.7 BUT ONLY THE TOP PART OF THE UNIT) WITH NUMEROUS SMALL FRACTURES & NETWORK VEINING OF QTZ-LOCAL SPKS PY LESS THAN 1 PCNT-CORE ANGLE 70 DEGREES AT 412.8 & 80 DEGREES AT 413.7	70
				FOOT OF HOLE	
				NO CONDUCTOR OR MAG EXPLANATION-LOCAL DISSEMINATED PY LESS THAN 1 PERCENT THROUGHOUT MOST OF HOLE-PY 1-2 PER CENT AT 298.0 TO 298.6	
				THIN SECTIONS AT 166.8, 174.3,204.0 301.6,348.3,402.9	

BOREHOLE RECORD
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DATE PROCESSED APR 01,1974

CHK'D.....

BOREHOLE#	PROPERTY	NTS#	SH#	ANOM#	DEPTH	AZIMUTH	DIP	LATITUDE	DEPARTURE	ELEVATION	LEVEL
55308-0	SAKAMI PROJECT	33F 7E		14	329	150 00	-45 00	N 444	W 1175		

DATE.....

INCLINATION AND TROPARI TESTS

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP
100		-44 45	200		-45 15	300		-46 15						

TOPS OF WEDGES

COMMENTS

LOGGED BY..AAQUIST B E STARTED..MAR 16,1973 COMPLETED..MAR 18,1973 DRLL INSPIRATION-ALL CASING RECOVERED-PERMIT AREA 550

SAMPLE ENTRIES

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
0.0	0.0			COLLAR	
36.0	36.0			OB-SAND & GRAVEL AW CASING TO 38 FT	
50.0	14.0		QTE	CG TO FG GRADED BEDDING-LT GY IN CG FRACTION-MED GY IN FG FRACTION-FELDS PAR QUARTZ BIOTITE CHLORITE- 1% DISS EMINATED PY LOCALLY-UNIT IS MADE UP OF A NUMBER OF BEDS-BASE OF INDIVIDU AL BEDS OCCUR AT 39.5-J/.3-42.6-43.7 -48.3-48.8-49.3-49.7 & 50.0 FEET EAC H BED IS GRADED-THE MAJOR PORTION OF EACH IS CG WITH A FEW INCHES OF FG M ATERIAL AT THE TOP	75
				TS C-73-1241 @ 43.9 MICACEOUS QTE	
54.0	4.0		QTE	FG MED GY FINE BANDING WITH SRCT DEV ELOPMENT-LOCAL QUARTZ VEINS 0.1 INC H THICK-TOP 1.2 FEET VERY FINELY BAN DED WITH 1% DISSEMINATED BY CONTACT WITH ABOVE UNIT SHARP & REGULAR AT 9 0 DEGREES	90
				TS C-73-1242 @ 51.1' ARKOSIC QTE	
56.3	2.3		QTE	AS TO 50.0-3 BEDS WITH BASE AT 54.5 55.7 56.3 CONTACT WITH ABOVE UNIT SH ARP & REGULAR AT 85 DEGREES	85
56.6	0.3		GWKE	LT GRN-MG BIOTITE FELDSPAR QTZ CHLOR ITE CONTACT WITH ABOVE UNIT SHARP & REGULAR AT 85 DEGREES	
				TS -C-73-1243 @ 56.5' META GWKE	
60.0	3.4		QTE	AS TO 50.0-2 BEDS WITH BASE AT 57.5 & 60.8 FEET-CONTACT WITH ABOVE UNIT LOST	85
61.3	1.3		GWKE	AS TO 56.6-CONTACT WITH ABOVE UNIT LOST	
76.9	15.6		QTE	AS TO 50.0-BASE OF INDIVIDUAL BEDS A RE AT 64.1-67.0-68.6-69.4-75.7-76.9- LOCAL QTZ VEINING FROM 75.7 TO 76.4- VEINING IS BOTH CROSS CUTTING & PARA LLEL TO BEDDING-CONTACT WITH ABOVE U NIT SHARP & REGULAR AT 90 DEGREES	85
				TS C-73-1244 @ 74.4' GRITTY QTE	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
79.7	2.8		QTE	BASAL FOOT AS TO 50.0-TOP PART OF UNIT BXTD DUE TO FAULTING-FRAGMENTS VARY FROM 0.1 TO 3 INCHES & CONCIST OF FG ARK IN A MATRIX OF DK GRN CHLORITIC MATERIAL-QTZ VEIN MATERIAL IS ASSOCIATED WITH THE CHLORITIC MATRIX-ONE QTZ VEIN SHOWS MINOR DISPLACEMENT-CONTACT WITH ABOVE UNIT LOST	
88.7	9.0		QTE	AS TO 50.0 BASE OF INDIVIDUAL BEDS ARE AT 80.9-85.5-86.3-87.1-88.7 FEET-CONTACT WITH ABOVE UNIT SHARP & REGULAR AT 85 DEGREES	85
89.3	0.6		QTE	FG SIMILAR TO 50.0 BUT NC GRADED BEDDING-CONTACT WITH ABOVE UNIT SHARP-& REGULAR AT 85 DEGREES-BASAL CONTACT IS AN EROSIONAL UNCONFORMITY CONTACT SHARP BUT IRREGULAR	
119.7	30.4		QTE	AS TO 50.0-BASE OF INDIVIDUAL BEDS ARE AT 89.7-90.5-91.6-93.0-96.1-98.3-102.2-111.3-112.5-118.5 & 119.7-CROSS BEDDING AT 113.3 FEET 70 DEGREES-LOCAL QTZ VEINING FROM 98.0 TC 99.2 FEET BRECCIATION BETWEEN 111.6 TO 112.0 AS TO 79.7-CONTACT WITH ABOVE UNIT SHARP & REGULAR AT 85 DEGREES	85
126.0	6.3		QTE	AS TO 50.0 VERY LITTLE CG MATERIAL-2 BEDS AT 122.2 & 126.0 FEET FINE BANDING THROUGHOUT UNIT DUE TO SLIGHT ALTERATION IN GRAIN SIZE- 1% PY DISCEMINATED BETWEEN 122.2 & 123.0 FEET	85
145.0	19.0		QTE	AS TO 50.0-2 BEDS AT 127.2 & 145.0-BOTTOM BED IS ALL CG EXCEPT FCR TOP FOOT-1 INCH QTZ VEIN AT 136.5 AT 50 DEGREES-QTZ VEINS AT 138.3 & 139.5-LOCAL SHEAR WITH CHLORITE BETWEEN QTZ VEINS-CONTACT WITH ABOVE UNIT SHARP & REGULAR AT 90 DEGREES	85
145.9	0.9		BX	SEDIMENTARY BX-FG ARK FRAGMENTS 0.1 TO 1 INCH LONG IN A DK GRN MATRIX-VERY OPEN PACKING AT TOP OF UNIT-CONTACT WITH ABOVE UNIT LOST	
157.4	11.5		QTE	AS TO 50.0-BASE OF BEDS AT 151.6-155.7-156.3-157.4-CONTACT WITH ABOVE UNIT LOST	85
162.0	4.6		QTE	AS TO 50.0-1 BED-BRECCIATED TO 158.5 AS TO 145.9 REST OF UNIT CG-MINOR FAULTS WITH SLIP PLANES FILLED WITH QTZ CHLORITE & CARB MATERIAL- 1% PY DISSEMINATED THROUGHOUT UNIT	
166.6	4.6		QTE	AS TO 89.3- 1% DISSEMINATED PY-CONTACT WITH ABOVE UNIT SHARP & REGULAR AT 85 DEGREES	
168.4	1.8		GWKE	AS TO 56.6-CONTACT WITH OVERLYING UNIT SHARP & REGULAR AT 90 DEGREES	
168.8	0.4		QTE	MG MED GY CONTACT WITH ABCVE UNIT LC	90

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
			ST		
169.6	0.8		GWKE	AS TO 56.6-CONTACT WITH ABOVE UNIT L OST	
190.0	20.4		QTE	AS TO 50.0-BASE OF BEDS AT 171.5-176 .5-179.1-182.5-182.9-186.7-187.2-188 .6-190.0-MINOR FAULTING IN THE BEDS AT VARYING ANGLES-MOVEMENT 1 INCH D ISTORTED QTZ VEINING AT 169.7 FEET-C ONTACT WITH AVERLYING UNIT LOST	90
191.1	1.1		QTE	AS TO 56.6-CONTACT WITH ABOVE UNIT S HARP & REGULAR AT 90 DEGREES	
195.0	3.9		QTE	AS TO 50.0-MINOR FAULTING 10 TO 45 D EGREES THROUGHOUT UNIT-DISPLACEMENT 1 INCH-BASE OF BEDS AT 191.5-192.2-192.7-193.3-194.0-195.0	90
195.9	0.9		QTE	CONTACT WITH ABOVE UNIT L OST	
196.8	0.9		QTE	AS TO 195.9 BUT FG-CONTACT WITH ABOVE UNIT INDISTINCT AT 90 DEGREES TS-C-73-1245 @ 196.4 MICACEOUS QTE	
202.8	6.0		QTE	AS TO 50.0-BEDS AT 197.2-199.1-202.8 -CONTACT WITH ABOVE UNIT LOST	90
203.1	0.3		QTE	AS TO 56.6 CONTACT WITH ABOVE UNIT L OST	
208.8	5.7		QTE	AS TO 50.0-ONLY 1 BED-EXTENSIVE QTZ VEINING WITH WALL ROCK INCLUSIONS AT 204 FEET-CONTACT WITH ABOVE UNIT LO ST	
213.3	4.5		QTE	AS TO 195.9 GRADED BEDDING MG TO FG CONTACT WITH ABOVE UNIT SHARP & REGU LAR AT 75 DEGREES	
299.6	86.3		QTE	AS TO 50.0-BASE OF BEDS AT 218.2-219 .3-224.5-230.4-230.8-231.8-234.0-238 .8-240.4-244.0-244.5-245.4-248.9-250 .4-251.5-253.7-260.3-261.8-265.0-266 .5-267.8-273.0-277.7-279.3-282.6-288 .5-292.8-293.8-299.6-CONTACT BETWEEN BEDS USUALLY SHARP FG TO CG-BUT NOT ALL BEDS ARE WELL GRADED-SOME BEDS ARE BANDED INDICATING THEY MAY CONSI ST OF A NUMBER OF BEDS-BUT DUE TO LA CK OF DISTINCT GRADING-THESE BEDS WE RE NOT SUBDIVIDED-CONTACT WITH ABOVE UNIT LOST	85
299.9	0.3		QTZ	VEIN-CONTACT WITH ABOVE UNIT SHARP & IRREGULAR AT 50 DEGREES	
322.6	22.7		QTE	AS TO 50.0-BASE OF BEDS AT 304.0-306 .7-307.5-314.7-317.1-322.0-322.6-CON TACT WITH ABOVE UNIT LOST-BANDING IN BEDS SIMILAR TO 299.6	85
329.0	6.4		QTE	AS TO 50.0-BEDDING POORLY DEFINED-UN IT MAINLY FG-MUSCOVITE AS WELL AS BI OTITE-BEDS BROKEN IN LAST FOOT OF CO RE DUE TO MINOR FAULT MOVEMENT FOOT OF HOLE	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				NO EXPLANATION FOR CONDUCTOR OR MAG IN BORE HOLE	

BOREHOLE RECORD
****

DATE PROCESSED APR 01,1974

CHK'D.....

BOREHOLE#	PROPERTY	NTS#	SH#	ANOM#	DEPTH	AZIMUTH	DIP	LATITUDE	DEPARTURE	ELEVATION	LEVEL
55315-0	SAKAMI PROJECT	33F 2W		69	234	144 00	-45 00	S 910	W 800		

DATE.....

INCLINATION AND TROPARI TESTS

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP
100		-43 30	200		-42 45									

TOPS OF WEDGES

LOGGED BY..GOODALE D H STARTED..MAR 27,1973 COMPLETED..MAR 28,1973 DRILLED BY INSPIRATION-AQ CORE-ALL CASING RECOVERED-PERMIT 547

COMMENTS

SAMPLE ENTRIES

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
0.0	0.0			COLLAR	
16.0	16.0			OVERBURDEN-SAND & GRAVEL AW CASING TO 16.0 START OF CORE	
22.6	6.6		AMPH	FG TO MG-DARK GREEN AMPB-BIC-CHL-QTZ 60 PLAG GARNET PORPHYROBLASTS TO 0.2 INCHES DIAM MODY FOTD TS-C-73-1765 @ 19.9' AMPH	
23.3	0.7		GWKE	FG MASS GRADATIONAL CONTACT WITH ABOVE NO GARNETS TS-C-73-1766 @ 23.0' META GWKE	
26.0	2.7		AMPH	FG MOD FOTN OCC QTZ-FELDSPAR SEAMS CONFORMABLE TO FOTN TS-C-73-1767 @ 24.6' AMPH	65
26.6	0.6		AMPH	MED GRAINED MASS WITH ABUNDANT GAR PRBTS	
30.0	3.4		AMPH	MG FOTD OCC GAR PRBTS	70
35.0	5.0	MVVW	AMPH	AS TO 30.0	
37.0	2.0	MVW	AMPH	AS TO 30.0 WITH FINELY DISS PO-PY TO 2 PERCENT OCC GARNETS	
42.0	5.0	MVVW	AMPH	AS TO 30.0 TS-C-73-1768 AMPH	
50.7	8.7		AMPH	MG WITH QTZ-FELDSPAR BANDS UP TO 0.1 INCH MAFICS SHOW LINEATION & SEGREGATION ALSO-BIO RICH ZONES OCC SPKS PO-PY	70
53.0	2.3		QTZ	VEIN QTZ-CARB 50 PERCENT AMPHIBOLE AND GAR PRBTS TS-C-73-1769 META ARK	
53.4	0.4		AMPH	FG TO MG MODY FOTD	70
53.8	0.4		QTZ	VEIN QTZ-CARB WITH GAR PRBTS AND MG AMPHIBOLE	
73.0	19.2		AMPH	WELL FOTD AT 54 FEET ANGLE IS 50 TO CA AT 57.0 ANGLE IS 70 TO CA AT 71 FELSIC BANDS OF QTZ-CARBONATE ARE HIGHLY CONTORTED	
78.0	5.0	MVVW	AMPH	FOTD AT 20 TO CA AT 74.0 CCC QTZ-CARBONATE VEINS AT 76.5 MASS TO POORLY FOTD OCC QTZ-CARB SEAMS &GAR PRDTS TS-C-73-1770 @ 75.4' AMPH	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
80.0	2.0	MVW	AMPH	AS TO 78.0 WITH 2-4 PERCENT PO-PY	
85.0	5.0	MVVW	AMPH	AT 81.0 POORLY FOTD OCC QTZ VEINS & GARS-REMAINDER WELL FOTD-OCC GARS	50
95.0	10.0		AMPH	AS TO 85.0	
100.0	5.0	MVVW	AMPH	AS TO 85.0	
102.0	2.0	MVW	AMPH	AS TO 85.0 WITH 3 PERCENT PO & PY	50
107.0	5.0	MVVW	AMPH	AS TO 85.0	
109.0	2.0	MVW	AMPH	AS TO 85.0 WITH 3-5 PERCENT PO & PY	
114.0	5.0	MVVW	AMPH	AS TO 85.0	
115.0	1.0		AMPH	AS TO 85.0	
120.0	5.0	MVVW	AMPH	AS TO 85.0 MORE GAR PRBTS & CLUSTERS TO 50 PERCENT	50
122.6	2.6	MVW	AMPH	AS TO 120.0 PO & PY TO 5 PERCENT AS FINELY DISS SPKS AND OCC CLOTS	
127.6	5.0	MVVW	AMPH	AS TO 120.0 WELL FOTD	60
138.5	10.9		AMPH	AS TO 127.6	
143.5	5.0	MVVW	AMPH	AS TO 127.6	
145.5	2.0	MVW	AMPH	AS TO 127.6 WITH 2 PERCENT PO&PY	
150.0	4.5	MVVW	AMPH	AS TO 127.6	
155.0	5.0	MW	AMPH	WELL FOTD 20 TO 50 PERCENT GAR WITH 15 PERCENT PO & PY	65
				TS-C-73-1771 @ 153.7' SILICATE SULP IF	
159.9	4.9	MW	AMPH	AS TO 155.0 SULPS APPEAR SECONDARY ASSOC WITH FRACTURES & GAR CLUSTERS	
160.3	0.4	MW	GRPT		
160.5	0.2		AMPH	FG MASS PO PY CP TO 30 PERCENT	
165.9	5.4	MVW	GWKE	GREY-GREEN FG WITH MG BANDS FINELY LAMINATED QTZ FELDSPAR MAFIC GRAINS IN A MATRIX OF FG BIO&CHL MG BANDS LESS THAN ONE INCH IN WIDTH COMP OF QTZ-FELDSPAR-MAFICS. AT 163.7-164.2 BRECCIATED ZONE WITH NUMEROUS SMALL FRACTURES AND FRAGS UP TO 0.5 INCHES MG QTZ-FELDSPAR VEIN AT 165.3-165.5 WITH IRREGULAR CONTACTS. PY UP TO 5 PERCENT THRUOUT AS SMALL BLEBS TS-C-73-1772 @ 160.8 META GWKE	90
170.9	5.0	MVVW	GWKE	FG DARK GREY WITH LIGHTER GREY ZONES QTZ-KSPAR-PLAG-MAFICS BIO&CHL RICH ALONG WELL DEVELOPED FOTN PLANES SMALL SCALE PTYGMATIC FOLDING THRUOU T LOCAL QTZ-FELDSPAR VEINS LESS THAN 0.5 IN IRREG CTS-SMALL PINK GARS LOCAL DISS PY LESS THAN ONE PERCENT BANDING WELL DEVELOPED DUE TO BIOT RICH LAYERS TS-C-73-1773 @ 168.2 META GWKE	80
187.8	16.9		GWKE	AS TO 170.9 BUT RICHER IN BIO & SLIG HTLY DARKER GREY LOCAL SPKS PY LESS THAN ONE PER CENT LOWER CONTACT SHAR P BUT IRREGULAR	85
188.2	0.4		QTZ	VEIN WHITE MASS LOWER CT SHARP BUT IRREG	
192.1	3.9		GWKE	AS TO 170.9 EXT SMALL SCALE FOLDING	80

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				AT 189.0TO 189.9 LOWER CT SHARP BUT IRREG SEV QTZ VEINS LESS THAN 0.5 INCHES WIDE WITH IRREG CTS AT 191.0 TO 191.8	
192.3	0.2		QTZ	VEIN WHITE-FG-MASS	
196.5	4.2		GWKE	AS TO 170.9	80
196.8	0.3		PEG	WHITE-MASS CG FELDSPAR GREY QTZ SMAL L FLAKES BIO SEVERAL SMALL PINK GARS AND SPKS LESS THAN ONE PERCENT	
212.6	15.8		GWKE	AS TO 170.9 LOWER CT SHARP AT 40 DEG	40
224.0	11.4		PEG	AS TO 196.8 GARS LOCALLY LARGER ARK BAND AT 193.4 TO 193.7-IRREG SHA RP CTS ANGLE LOST-BROKEN CORE SPKS PY LESS THAN ONE PERCENT	70
234.0	10.0		GWKE	AS TO 170.9 BUT WITH ONLY SLIGHT DEFORMATION LOCAL SPKS PY ONE PER CENT FOOT OF HOLE	80
				CONDUCTOR & MAG EXPLANATION FROM 150 TO 160.5 PY-PO-GRPT	
				THIN SECTIONS AT 19.9, 23.0, 38.4 51.9, 75.4, 153.7, 165.9, 170.9	

BOREHOLE RECORD
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DATE PROCESSED APR 01,1974

CHK'D.....

BOREHOLE#	PROPERTY	NTS#	SH#	ANOM#	DEPTH	AZIMUTH	DIP	LATITUDE	DEPARTURE	ELEVATION	LEVEL
55314-0	SAKAMI PROJECT	33F 2W		67	515	174 00	-45 00	N 410	E 800		DATE.....

INCLINATION AND TROPARI TESTS

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP
100		-45 15	200		-41 15	300		-39 30	400		-32 30	500		-33 45

TOPS OF WEDGES

COMMENTS

LOGGED BY..AAQUIST B E STARTED..MAR 23,1973 COMPLETED..MAR 26,1973 DRLD INSPIRATION AQ CORE-DRLD ON LAKE-ALL CASING RECOVERED-PERMIT 547

SAMPLE ENTRIES

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
0.0	0.0			COLLAR	
42.0	42.0			OB-2 FEET ICE 8 FEET WATER 32 FEET SAND & MUD	
45.2	3.2		QTE	MG-MED GY-QTZ FSP BIOT CHLC-THIN BAN DS OF QTZ & FSP IN A MAFIC RICH ROCK -POSSIBLE A MTSD TS C-73-1575 @ 43.3' MICACEOUS QTE	60
46.1	0.9		BX	TECTONIC BX-QTZ FSP CHLC CARB VEININ G CEMENTING SCHISTOSE FRAGMENTS-CONT ACT WITH ABOVE UNIT LOST DUE TO BROK EN CORE	
50.1	4.0		QTE	AS TO 45.2-LOCAL FOLDING OF QTZ FSP BANDS-MG TO FG GRADED UP HOLE-CONTAC T WITH ABOVE UNIT LOST	60
55.5	5.4		QTE	AS TO 50.1-LOCALLY 1% DISS PY AT 54 .5 CONTACT WITH ABOVE UNIT SHARP & R EGULAR AT 60 DEGREES	60
60.2	4.7		QTE	AS TO 50.1-CONTACT WITH ABOVE UNIT S HARP & REGULAR AT 62 DEGREES	62
68.0	7.8		QTE	AS TO 50.1-CG AT BASE-1 INCH QTZ VEI N AT 61.4-LOCALLY 1% DISS PY-CONTAC T WITH ABOVE UNIT SHARP & REGULAR AT 65 DEGREES	65
70.5	2.5		QTE	AS TO 68.0-CONTACT WITH ABOVE UNIT S HARP & REGULAR AT 65 DEGREES	65
82.7	12.2		QTE	AS TO 45.2-2 INCH QTZ VEIN AT 71.2- 3 INCH QTZ VEIN AT 73.2 FEET WITH MI NOR PY NEAR UPPER CONTACT OF QTZ VEI N-QTZ VEINS PARALLEL BANDING	65
85.3	2.6		QTE	AS TO 45.2-MG TO CG-GREENISH GY DUE TO HIGHER CHLC CONTENT-FOLDED BANDIN G THROUGHOUT UNIT-CONTACT WITH ABOVE UNIT SHARP & REGULAR AT 60 DEGREES	60
86.5	1.2		QTE	AS TO 50.1-TOP INCH OF UNIT HAS CONT ORTED BANDING-CONTACT WITH ABOVE UNI T SHARP & REGULAR AT 65 DEGREES	65
90.3	3.8		QTE	AS TO 50.1-CONTACT WITH ABOVE UNIT S HARP & REGULAR AT 65 DEGREES	65

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
162.0	71.7		QTE	AS TO 45.2-BANDING DENSITY VARIABLE THROUGHOUT UNIT-FG TO MG VARIABLE & GRADATIONAL-CONTORTED BANDING 137 TO 141 WITH NO DISTINCT CONTACT TO SEP ARATE IT FROM THE REST OF THE UNIT-M INOR LOCAL VEINS & LENSES OF QTZ-LOC AL OCCURRENCES OF 1% PY-LOCAL QTZ F SP MATERIAL HAS AN AUGEN TEXTURE	70
166.8	4.8	MVVW	QTE	AS TO 162.0	
171.5	4.7	MVW	ARK	PO PY 2 TO 7% VARIABLE-GR APHITE THROUGHOUT UNIT WITH A 1 INCH PURE BAND AT THE BASE-MINERALIZATIO N OCCURS IN BANDS PARALLEL TO SCHIST OCITY-LOCAL IRREGULARITY IN THE BAND ING-WHOLE UNIT IS CONDUCTIVE & MAGNE TIC TS-C-73-1576 @ 167.5' META ARK	60
176.6	5.1	MVVW	ARK	GREENISH GRAY-LOCAL P Y UP TO 1%	60
186.8	10.2		ARK	AS TO 176.6	60
289.7	102.9		ARK	UNITS OF GREEN & BROWN WITH GRADATIO NAL CONTACTS-THE GREEN UNITS ARE QTZ FSP CHLC MINOR BIOT-THE BROWN ARE QT Z FSP BIOT MINOR CHLC-SOME GREEN UNI TS ARE FG THAN THE BROWN-CONTACTS BE TWEEN UNITS ARE GRADATIONAL OVER 0.5 INCHES-LOCAL OCCURRENCE OF 1% DISS PY-4 INCH QTZ VEIN AT 239.5-ANGLE OF CORE VARIES FROM 60 TO 70 DEGREES-F OOTAGE AT BASE OF BROWN UNITS IS 204 .8 215.2 229.2 234.6 224.2 268.7 279 .6 289.7 TS-C-73-1577 @ 200.0' META ARK	
294.2	4.5	MVVW	ARK	GRN-MG QTZ FSP CHLC BIOT- 1% PY&PO OCCURS IN NARROW STRINGERS & DISCEM INATED-CONTACT WITH ABOVE UNIT GRADA TIONAL OVER 0.2 INCHES	70
296.8	2.6	MVW	ARK	AS TO 294.2-1 TO 2% DISS PY-QTZ FSP BANDS OCCUR IN BOTH UNITS AS TO REST OF HOLE-CONTACT WITH ABOVE UNIT GRA DATIONAL OVER 1 INCH	
302.0	5.2	MW	ARK	GRAPHITIC-BLACK-FG-7% PY 8% PC QTZ F SP BLEBS INSTEAD OF BANDS-CONTACT WI TH OVERLYING UNIT GRADATIONAL OVER 1 INCH-SULFIDES OCCUR AS THIN STRINGE RS	80
307.0	5.0	MW	ARK	AS TO 302.0-7% PY 13% PO	80
312.0	5.0	MW	ARK	AS TO 302.0-SULFIDE STRINGERS LOCALL Y DEFORMED-REMOBILIZED SULFIDE INDIC ATED BY SMALL PY CUBES	65
317.0	5.0	MW	ARK	AS TO 312.0-15% PO 5% PY	70
322.0	5.0	MW	ARK	AS TO 302.0-15% PO 3% PY	80
327.0	5.0	MW	ARK	AS TO 322.0	80
332.0	5.0	MW	ARK	AS TO 302.0-12% PO 5% PY PS C-73-1578 @ 327.7	70

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
337.0	5.0	MW	ARK	AS TO 322.0	70
342.0	5.0	MW	ARK	AS TO 302.0-12% PO 3% PY	70
345.3	3.3	MW	ARK	AS TO 302.0-10% PO 3% PY	60
346.8	1.5	MW	ARK	2% PO 1% PY-QTZ FSP BAND ING POORLY DEVELOPED-CONTACT WITH AB OVE UNIT SHARP & REGULAR AT 75 DEGRE ES	70
353.2	6.4	MW	ARK	AS TO 302.0-7% PO 3% PY BASAL 5 INCH ES IS 30% QTZ FSP BANDS & 2% SULFIDE S-CONTACT WITH ABOVE UNIT SHARP & IR REGULAR AT 70 DEGREES	75
358.2	5.0	MVVW	GWKE	QTZ FSP CHLC BIOT-MG-GRN GY-CG EYELE TS OF QTZ & FSP MAKE UP 1 TO 2% OF R OCK-LOCAL OCCURRENCE OF 1% PY-CONTA CT WITH ABOVE UNIT SHARP & REGULAR A T 70 DEGREES	70
382.7	24.5		GWKE	AS TO 358.2 WITH VARIATION IN GRAIN SIZE AS TO 289.7-AT 366.3 A SHARP CO NTACT AT 85 DEGREES CG BELOW FG ABOV E THE FG GRADES INTO A MG UNIT-AT 37 8.4 A SHARP CONTACT AT 80 DEGREES CG ABOVE FG BELOW-UNIT GY TO GRN GY-A 1 INCH QTZ VEIN AT 371.6 TS C-73 1579 @ 374.4' META GWKE	
387.7	5.0	MVVW	GWKE	AS TO 382.7	
392.7	5.0	MW	GWKE	AS TO 382.7-10% PO AS IRREGULAR STRI NGERS	80
396.5	3.8	MW	GWKE	AS TO 392.7	
401.5	5.0	MVVW	GWKE	AS TO 358.2-LOCALLY PO 1% 1 INCH QT Z VEIN AT 399.4 & 1 AT 399.6-CONTACT WITH OVERLYING UNIT LOST DUE TO GROU NO CORE	75
402.2	0.7		GWKE	AS TO 401.5	75
409.8	7.6		QTE	FG-GY TO GRN GY-QTZ FSP CHLC BIOT-TH IN BANDS OF QTZ FSP 2 PER INCH	
411.8	2.0		QTE	AS TO 409.8 BUT MG	
416.4	4.6		QTE	AS TO 409.8-GRADED MG AT BASE FG AT TOP-2 ONE INCH BANDS OF 7% PC IN FG SCH 1 AT 412.3 & 1 AT 413.1	
457.4	41.0		QTE	AS TO 409.8-CONTACTS BETWEEN BROWN & GRN SCH IS GRADATIONAL 3 PC STRINGE PS AT 453.3 0.1 INCH WIDE	75
462.4	5.0	MVVW	QTE	AS TO 409.8 TS C-73-1580 @ 462.2' ARGILLACEOUS QTE	
465.3	2.9	MW	QTE	QTZ FSP CHLC BIOT-MG-GY-QTZ FSP BAND S ARE DEFORMED SOME NOW OCCUR AS LEN SES-8% PO 2% PY AS STRINGERS-REMOBIL IZATION OF SULFIDE ALONG FRACTURE PL ANES RESULTED IN DEVELOPMENT OF SECO NDARY PY WITH CRYSTALS UP TO 0.2 INC HES PER SIDE-4 INCH QTZ VEIN AT THE TOP OF UNIT HAS SECONDARY PY DEVELOP ED AT ITS BOUNDARY	
470.4	5.1	MVVW	QTE	AS TO 409.8-LOCALLY 1% PC	80

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
515.0	44.6		GWKE	AS TO 382.7 FOOT OF HOLE	
				TS C-73-1581 @ 489.7 META GWKE	
				CDRS & MAG 166.8 TO 171.5-294.2 TO 353.2-387.7 TO 396.5-462.4 TO 465.3	

BOREHOLE RECORD
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DATE PROCESSED APR 01,1974

CHK'D.....

BOREHOLE#	PROPERTY	NTS#	SH#	ANOM#	DEPTH	AZIMUTH	DIP	LATITUDE	DEPARTURE	ELEVATION	LEVEL
55312-0	SAKAMI PROJECT	33F 2W		53	260	160 00	-50 00	N 795	W 2400		DATE.....

INCLINATION AND TROPARI TESTS

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP

TOPS OF WEDGES

LOGGED BY..AAQUIST B E STARTED..MAR 12,1973 COMPLETED..MAR 17,1973

COMMENTS

DRLD INSPIRATION-DRLD ON LAKE-ALL CASING RECOVERED-PERMIT 547

SAMPLE ENTRIES

DEPTH	LENGTH	MNZN ROCK	DESCRIPTION	ANG
0.0	0.0		COLLAR	
260.0	260.0		OVERBURDEN-3 FEET ICE 2 FEET WATER 255 FEET SAND & QUICKSAND-171 FEET OF NW CASING & 248 FEET AW CASING USED-RODS DRIVEN TO 260 FEET & STILL IN OVERBURDEN- FOOT OF HOLE	

BOREHOLE RECORD
****

DATE PROCESSED APR 01,1974

CHK'D.....

BOREHOLE#	PROPERTY	NTS#	SH#	ANOM#	DEPTH	AZIMUTH	DIP	LATITUDE	DEPARTURE	ELEVATION	LEVEL
55313-0	SAKAMI PROJECT	33F 2W		63	281	140 00	-45 00	N 275	W 400		DATE.....

INCLINATION AND TROPARI TESTS

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP

TOPS OF WEDGES

LOGGED BY..AAQUIST E E STARTED..MAR 18,1973 COMPLETED..MAR 22,1973

COMMENTS

DRLC INSPIRATION-DRLC ON LAKE-LOST IN HOLE 100 FT AW C
ASING 1 AW SHOE-PERMIT 547

SAMPLE ENTRIES

DEPTH	LENGTH	MNZN ROCK	DESCRIPTION	ANG
0.0	0.0		COLLAR	
281.0	281.0		OB-3 FEET ICE 2FEET WATER 276 FEET C F MUD SAND PEBBLY SAND-HOLE ABANDONED IN OVERBURDEN- FOOT OF HOLE	

BOREHOLE RECORD
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DATE PROCESSED APR 01,1974

CHK'D.....

BOREHOLE#	PROPERTY	NTS#	SH#	ANOM#	DEPTH	AZIMUTH	DIP	LATITUDE	DEPARTURE	ELEVATION	LEVEL
55311-0	SAKAMI PROJECT	33F 2W		53	170	160 00	-45 00	N 745	W 2400		DATE.....

INCLINATION AND TROPARI TESTS

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP

TOPS OF WEDGES

LOGGED BY..DEBICKI E J STARTED..MAR 08,1973 COMPLETED..MAR 11,1973

COMMENTS

DRILLED INSPIRATION-DRILLED ON LAKE-26 FEET OF AW CASING AND SHOE BIT LEFT IN HOLE-PERMIT AREA 547

SAMPLE ENTRIES

DEPTH	LENGTH	MNZN ROCK	DESCRIPTION	ANG
0.0	0.0		COLLAR	
170.0	170.0		OVERBURDEN-3 FEET ICE 2 FEET WATER 165 FEET SAND AND QUICKSAND	
			HOLE ABANDONED IN OVERBURDEN-FOOT OF HOLE	

BOREHOLE RECORD

DATE PROCESSED APR 01,1974

CHK'D.....

BOREHOLE#	PROPERTY	NTS#	SH#	ANOM#	DEPTH	AZIMUTH	DIP	LATITUDE	DEPARTURE	ELEVATION	LEVEL
55316-0	SAKAMI PROJECT	33F 2W			577	180 00	-45 00	S 920	E 800		DATE.....

INCLINATION AND TROPARI TESTS

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP
100		-44 45	200		-42 45	300		-41 30	400		-36 15	500		-30 00
577		-26 30												

TOPS OF WEDGES

LOGGED BY..GOODALE D H STARTED..MAR 29,1973 COMPLETED..APR 05,1973

COMMENTS

DRLG INSP ZONE 3 PERMIT548-AQ CORE 4"CAS ADDED TO BRING ABOVE WATER LEVEL NW CAS PULLED-AW CAS LEFT IN HOLE

SAMPLE ENTRIES

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
0.0	0.0			COLLAR	
37.0	37.0			OV-SAND & GRAVEL 34 FEET WATER C FEET.ICE 3 FEET. AW CASING TO 38.0 FEET	
49.5	12.5		BCDK	DK GRN SLI LNTN 40-50 DEGREES TO CA AMPB-FSP-CHL-OCC BIOT RICH ZONES-CONFORMABLE TO LNTN WKLY MTC AT 43.5 MT GRAINS ALONG FRCT ZONE AT 10 DEGREES TO CA OCC QTZ-CARB STRS 0.1 INCH WIDE-CRSCTG & CNFMBL TO LINEATION	50
49.6	0.1		BCDK	THREE BIOT RICH ZONES 0.1 INCH WIDE	40
49.8	0.2		BCDK	AS ABOVE LOWER CT SHARP AT 45 DEG	
50.7	0.9	MVVW	UM	DK GRN TALCOSE VFG WKLY MTC LNTD JK TO CA LOWER CT SHARP AT 45 DEGREES	
53.9	3.2	MVVW	UM	FG TALC-SRPN GRY BECOMING GRNER WITH INCRD SRPN CONTENT DOWNHOLE TO 52.2.FROM 52.2 TO 52.8 DECREASE IN SRPN CONTENT FROM ABOVE FROM 52.8 TO 53.4 COARSER THAN ABOVE FINING DOWNHOLE UPPER CT SHARP AT 53.9 BIOT RICH ZONE	
54.2	0.3	MVVW	UM	TALCOSE CT ZONE WITH 50% BICT DVLPD ALONG FOTN PLANES AT 50 DEGREES	50
57.0	2.8		GWKE	FG-QTZ-FSP-AMPB-CHL-BIOT. BIOT DVLPD ALONG PLANES AT 45 DEGREES TO CA CRSCTG & CNFMBL QTZ VEINS UP TO 0.1 INCH. SPKS PY 1% TS-C-73-1774 @ 55.1' META GWKE	
57.1	0.1		GWKE	CTC ZONE ABUNDANT BIOT AT 30 DEGREES TO CA UPPER & LOWER CTS SHARP	30
61.3	4.2	MVVW	UM	SRPN TALC & TREM-ACT MG TO 57.7 THEN BECOMES COARSER WITH CS NEMATOBLASTIC ACT DEVELOPMENT INTERSPERSED WITH MOTTLED TEXTURE GRN WITH WHITE MOTTLES-TREM AND TALC GRAIN SIZE INITIALLY INCREASES AND THEN DECREASES DOWN HOLE AS LOWER CT IS APPROACHED	
64.5	3.2		GWKE	AS TO 57.0 UPPER CT SHARP AT 40 DEG	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				REES 0.1 INCH BIOT RICH ZONE AT CT LOWER CT SHARP BUT IRREGULAR TS-C-73-1775 @ 62.8' META GWKE	
66.1	1.6			ANDS INT FG MASS LT GY-GRN BIOT TO 20% LOWER CT SHARP BUT IRREGULAR TS-C-73-1776 @ 65.1' META ANC BASALT	
68.4	2.3			GWKE AS TO 64.5 WITH CRSCTG & CNFMBL QTZ CARB VEINS FOTN AT 40 DEGREES TO CA	
100.7	32.3			BSLT MAFIC FG MASS LT GRN QTZ-CARB VEINS UP TO 0.5 INCH FROM 71.4 TO 71.7 MI CACEOUS QTZ ZONE CTS SHARP BUT IRRE GULAR VEIN OR POSSIBLE QTE BAND( )	
111.4	10.7			BSLT FG-MG BOTH CTS SHARP BUT IRREGULAR TS-C-73-1777 @ 103.4-META BASALT	
111.5	0.1			GWKE FG GY GRN QTZ & FSP FGMS TO 1.5 MM SUBAGLR TO RNDD SOME FGMS BIOMODAL BOTH QTZ & FSP	
111.6	0.1			BSLT AS TO 111.4 CTS SHARP BUT IREG	
112.0	0.4			GWKE AS TO 111.5	
112.4	0.4			BSLT AS TO 111.4	
113.5	1.1			GWKE AS TO 111.5	
115.4	1.9			BSLT AS TO 111.4 SUBRNDD VOLC ROCK FRGM AT 114.0	
122.5	7.1			GWKE BICT-AMPB-CHL FSP SPKS FSP TO 2 MM 118.7 TO 118.9 INCRD BIOT CONTENT I NCRD AMPB G SIZE NO SPKS FSP 118.9 TO 119.1 LESS BIOT THAN ABOVE MAINL Y AMPB & CHL SPKS FSP & OCC SPKS PY 119.1 TO 119.2 INCRD QTZ & FSP CONTE NT 119.2 TO 119.8 AS TO 118.7 119. 8 TO 120.5 MORE FELSIC THAN ABOVE UN IT 120.5 TO 121.2 AS TO 118.7 121.2 TO 122.5 INCRD BIOT CONTENT LESS AMP B THAN ABOVE IN MATRIX AMPB VEINING UP TO 0.6 INCH	
126.0	3.5			VOLC MAFIC FG MASS DK GRN OCC QTZ VEINS	
126.5	0.5			VOLC CT ZONE BROKEN CORE DFRMD QTZ VEINI NG	
127.0	0.5	MVVW	UM	FG DK GRN MATRIX-MASS MG-CG MT BIO T RICH AT CTCS STGL MTC	
133.7	6.7	MVVW	UM	FG GY-GRN SRPN-TALC WITH CCC PRXN PR BTS MINOR BIOT WITH OCC SPKS MT STGL MTC	
148.7	15.0	MVVW	UM	FG MOUSE GRY TALC-SRPN MATRIX WITH C G PRXN PRBTS -GRN TO BK OCC ZONES CG TALC STGL MTC AS TO 133.7	
163.7	15.0	MVVW	UM	AS TO 133.7-INCREASED PRXN CONTENT ALSC PRXN FINER GRAINED THAN ABOVE	
171.3	7.6	MVVW	UM		
172.7	1.4	MVVW	UM	DK GY FG TALC-SRPN MATRIX WITH PRBTS TALC TO 2 MM & SPKS MT STGL MTC	
173.3	0.6	MVVW	UM	AS TO 127.0	
173.9	0.6	MVVW	UM	MG PYC IN FG TALC SRPN MATRIX STGL MTC	
174.6	0.7	MVVW	UM	AS TO 127.0	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
174.9	0.3	MVVW	UM	AS TO 173.9	
175.0	0.1	MVVW	UM	AS TO 127.0	
179.3	4.3	MVVW	UM	AS TO 133.7	
180.0	0.7	MVVW	UM	AS TO 127.0	
195.0	15.0	MVVW	UM	AS TO 133.7	
210.0	15.0	MVVW	UM	AS TO 133.7	
225.0	15.0	MVVW	UM	AS TO 133.7	
240.0	15.0	MVVW	UM	AS TO 133.7 BUT INCRD SRPN & PRXN OCC ZONES WITH MOTTLED APPEARANCE-SU BRNDD TALC CLOTS IN OLIVINE-SRPN MAT RIX-WITH LITTLE PRXN	
246.0	6.0	MVVW	UM	AS TO 240.0 FG GRANULAR TALC-OLIVINE SRPN MATRIX-CG PRXN & OLIVINE PRBTS. MATR IX VARIES FROM FG TALCOSE TO MG GRAN ULAR MEDIUM TO STGL MTC POSSIBLE DUNITE (Q)	
249.6	3.6	MVVW	UM	MATRIX MORE TALCOSE THAN ABOVE FG MTX WITH CG OLIVINE & PRXN PRBT S MEDIUM TO STRONGLY MTC	
250.4	0.8	MVVW	UM	FG TO MG MATRIX ENTIRELY GRANULAR I NCRD OLIVINE CONTENT OCC PRBTS OLIV INE OLIVINE AND PRXN TS-C-73-1778 @ 249.9' META UM	
252.0	1.6	MVVW	UM	AS AT 248.7	
252.6	0.6	MVVW	UM	AS AT 250.4	
253.2	0.6	MVVW	UM	AS AT 249.6	
255.1	1.9	MVVW	UM	AS AT 250.4 TS-C-73-1779-@ 254.6' META UM	
256.4	1.3	MVVW	UM	AS AT 249.6	
257.1	0.7	MVVW	UM	AS AT 250.4	
257.7	0.6	MVVW	UM	AS AT 249.6	
272.7	15.0	MVVW	UM	AS AT 248.7 OLIVINE CONTENT INCREASE S FROM START OF UNIT DOWNHOLE TS-C-73-1780 @ 262.4' ALTERED PERID	
280.0	7.3	MVVW	UM	AS PREV ENTRY	
280.7	0.7	MVVW	UM	FG TALC RICH GY TO BK STGL MTC POSS TBLE STEATIZED ZONE	
281.0	0.3	MVVW	UM	AS TO 127.0 0.5 IN BIOT RICH ZONE AT LOWER CT CT AT 60 DEGREES-SHARP	
302.4	21.4		DIA	VFG AT UPPER CT WITH GRADUALLY INCR EASE IN G SIZE DOWNHOLE OCC QTZ VEI NS G SIZE DECREASES AS LOWER CT IS APPROACHED	
302.5	0.1	MVVW	DIA	BIOT-AMP RICH CT ZONE 40 DEGREES TO CA	
302.7	0.2	MVVW	UM	AS AT 127.0 LOWER CT SHARP BUT IRREG	
304.2	1.5	MVVW	UM	FG TALC MATRIX WITH CG NEMATOBLASTIC & SHEAF-LIKE ACTINOLITE	
304.5	0.3	MVVW	UM	AS TO 127.0 BUT NO MT THIS ZONE CORE IS NONMTC BIOT RICH ZONE 2.4 INCHE S WIDE FORMS LOWER CT AT 45 DEGREES	
310.0	5.5		ARK	FG QTZ-CARBONATE-BIOT-CHL FCTC AT 60 60 TS-C-73-1781 @ META ARK	
310.3	0.3			TALC SEAM CORE BADLY CRUSHED	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
312.5	2.2		ARK	AS TO 310.0	
312.7	0.2		TALC	SEAM CORE BADLY CRUSHED	
312.9	0.2		ARK	AS TO 310.0	
313.4	0.5		TALC	SEAM CORE CRUSHED	
314.0	0.6		QTE	FG WITH CHL & BIOT AS STREAKS GIVING A MOTTLED APPEARANCE TS-C-73-1782 @ 313.5' MICACECUS QTE	
314.6	0.6		TALC	SEAM CORE CRUSHED	
317.0	2.4		QTE	AS TO 314.0 BUT INCREASING CHL & BIOT CONTENT DOWN HOLE	
323.3	6.3		QTE	GRADATIONAL CT WITH ABOVE UNIT GRAIN SIZE DIMINISHING DOWN HOLE TS-C-73-1783 @ 322.1' ARGILLACEOUS ARKOSIC QTE	
328.7	5.4		QTE	FG MORE SILICEOUS THAN ABOVE MAINLY QTZ WITH BIOT & CHL BECOMING LESS SILICEOUS DOWN HOLE FROM 326.0 TO 328.0 LIGHT RED TINGE TO CORE-POSSIBLE HEMATITE LOWER CT DEFINED BY G SIZE DIFFERENCE WITH NEXT UNIT CT AT 20 DEGREES TO CA TS-C-73-1784 @ 324.0' MICACECUS QTE TS-C-73-1785 @ 327.2' META ARK	
340.8	12.1		ARG	MG FSP QTZ & QTZ-FSP FGMS SURROUNDED BY FG TO MG CHL & BIOT AT 333.0 POSSIBLE ANTHOPHYLITE. BECOMING FINER GRAINED FROM 333.0 TO END OF UNIT THEREFORE TOPS ARE DOWNHOLE BOTTOM 6 IN OF UNIT VFG-CT ZONE WITH VOLC BELOW CT IREG NOT WELL DEFINED TS-C-73-1786 @ 332.8-META ARG TS-C-73-1787 @ 336.8-META ARG	
343.3	2.5		VOLC	MAFIC DK GY-GRN FG FOTD BIOT RICH ZONES UP TO 0.1 IN WIDE AT 50 DEGREES TO CA	
363.1	19.8		DIA	FG AT UPPER CT WHICH IS GRADATIONAL BECOMES COARSER DOWNHOLE 0.5 IN QTZ VEIN AT 350.5	
364.2	1.1		QTZ	VEIN CTS SHARP BUT IREG	
399.3	35.1		DIA	AS TO 363.1 BUT FINER GRAINED OCC QTZ VEINS & OCC THIN FLAKES PY ALONG FRACTURES	
401.8	2.5	MVVW	UM	FG PALE GRN TALC WITH CG BIOT & ACT GRADES INTO FG DK GRN ZONE OF MAINLY AMPB WHICH GRADES INTO A SOFTER DK GRN FG CHL-AMPB ZONE WITH CG BIOT UPPER AND LOWER CTS SHARP AT 60 DEGREES	
405.6	3.8		QTE	AS TO 328.7	
409.7	4.1		ARK	FG FSP QTZ BIO CHL AMPB FOTN AT 50 DEGREES OCC CARB VEINS MAINLY CNFMBL TO FOTN	
414.6	4.9		ARK	PRPC PRIMARILY PLAGIOCLASE PHCR UP TO 0.15 IN SURROUNDED BY FG MTX OF PLAG-KSPAR QTZ BIOT & MINOR CARBONAT	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				E UPPER CT SHARP-BROKEN CORE LOWE R CT SHARP AT 55 DEG TS-C-73-1788 @ 417.7' META PEBBLY ARK	
417.1	2.5		ARK	AS TO 409.7 BUT HIGHER FSP CONTENT FOTN AT 55 DEG	55
417.3	0.2		ARK	PRPC AS TO 414.6	
418.0	0.7		ARK	AS TO 417.1 OCC CARB SEAMS	
418.1	0.1		ARK	PRPC AS TO 414.6	
439.5	21.4		ARK	AS TO 417.1 FOTN AT 60 DEG	60
449.8	10.3		VOLC	MAFIC FG GY-GRN MASS QTZ-FSP-CHL-AM PB-MINOR BIOT & OCC QTZ VEINS	
450.9	1.1		VOLC	CT ZONE LIGHT GRN FG-MG AMPB MG FS P QTZ BIOT & CHL	
452.5	1.6		DIA	UPPER CTC LOST-BROKEN CORE DK GRN FG BECOMING COARSER AS LOWER CTC APPROA CHED LOWER CT SHARP AT 50 DEG	
468.5	16.0		ARK	PRPC AS TO 414.6 SPKS PY TO 1% IN PLACES OXIDIZED-STAINLING CORE RUSTY BRWN LOWER CTC SHARP AT 65 DEG	
469.7	1.2		DIA	AS TO 452.5 MG	
473.3	3.6	MVVW	UM	FG GY-GRN TREM-BIOT-TALC INCREASING G SIZE DOWNHOLE TREM & BIOT BECOME MG IN FG TALC MATRIX	
473.4	0.1	MVVW	UM	AS TO 401.8	
473.5	0.1	MVVW	UM	BIOT RICH CTC ZONE AT 55 DEG	55
478.4	4.9		ARK	AS TO 310.0 LOWER CTC AT 50 DEG	
478.5	0.1	MVVW	UM	BIOT RICH CT ZONE	
478.6	0.1	MVVW	UM	AS TO 401.8	
479.2	0.6	MVVW	UM	AS TO 473.3 BUT MG-CG	
481.5	2.3	MVVW	UM	FG-MG GY SLI FOTN AT 65 DEG SPKS MT AT 479.3 TO 2% BOTH CTCS GRADATION AL	65
483.3	1.8	MVVW	UM	AS AT 133.7	
495.9	12.6	MVVW	UM	GY FG GRANULAR TALC RICH CCC SPKS MT STGL MTC 487.8 TO 489.0 NE MATOBLASTIC AMPB DEVELOPMENT	
511.0	15.1	MVVW	UM	AS AT 133.7 INCG OLIVINE FROM 509.0	
514.8	3.8	MVVW	UM	AS AT 495.9	
515.0	0.2	MVVW	UM	AS AT 127.0 MT CLOTS TO 1 INCH	
515.5	0.5	MVVW	UM	AS AT 495.9 LOWER CT SHARP AT 70 DEG	
516.2	0.7	MVVW	UM	AS AT 127.0	
516.9	0.7	MVVW	UM	FG TALCOSE MTX WITH MG AMPB	
531.9	15.0	MVVW	UM	AS AT 133.7	
546.9	15.0	MVVW	UM	AS AT 133.7	
561.9	15.0	MVVW	UM	AS AT 133.7	
577.0	15.1	MVVW	UM	AS AT 248.7 FOOT OF HOLE	
				THIN SECTIONS AT 55.1, 62.8, 65.1, 103.4,249.9,254.6, 262.4,307.8,313.5, 322.1,324.0,327.2, 332.8,336.8,413.7	

BOREHOLE RECORD

DATE PROCESSED APR 01,1974

CHK'D.....

BOREHOLE#	PROPERTY	NTS#	SH#	ANOM#	DEPTH	AZIMUTH	DIP	LATITUDE	DEPARTURE	ELEVATION	LEVEL
55317-0	SAKAMI PROJECT	33F 2W			1175	180 00	-45 00	N 1800	W 5600		

DATE.....

INCLINATION AND TROPARI TESTS

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP
100		-44 30	200		-44 00	300		-39 30	400		-36 30	500		-37 30
600		-37 30	700		-35 00	800		-28 15	900		-27 30	1000		-25 30
1100		-22 15	1175		-25 30									

TOPS OF WEDGES

COMMENTS

LOGGED BY..DEBICKI E J STARTED..JUNE 15,1973 COMPLETED..JULY 01,1973 DRILLED INSPIRATION BBS-3 AQ CORE PERMIT 546 ZONE 2
16 FT CSG LEFT

SAMPLE ENTRIES

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
0.0	0.0			COLLAR	
				ULTRAMAFIC TYPES A,B & C DEFINED IN BH 55303	
12.0	12.0			OVERBURDEN SAND & BOULDERS	
13.0	1.0			START OF CORE CASING TO 14.0	
22.4	9.4		QTE	FELDSPATHIC GRITTY MG LIGHT GREY-75% 50 CLEAR QTZ CLASTS UP TO 0.1 INCHES BE COMING COARSER GRAINED DK GREY & HIG HER % OF QTZ CLASIS DOWNHOLE WITH OC CASSIONA FELSPAR CLASTS-MINOR CALCIT E & BIOTITE-WEAKLY FOLIATED-PY 1-2 % AS SMALL CUBES AND STRS ARSENOPYRITE 1 % TOWARDS BOTTOM OF UNIT	
				20.8-21.3 CG QTZ FELDSPAR PEGMATITE WITH CLUSTERS OF BIOTITE LOWER CONTA CT SHARP BUT IRREGULAR WITH PC CLOTS	
				21.5-21.6 QTZ VEIN	
				TS-C-73-3200@ 17.2' GNEISSIC PRPC GR	
24.3	1.9		ARG	META & META-GWKE BANDS META-ARGILLIT 50 E IS EG DK GREY 0.1 TO 0.2 FT BANDS FELDSPAR BIOTITE RICH IN SHARP CONTA CT WITH CG GREY GREEN FELDSPAR BIOTI TE AMPHIBOLE META-GWKE 0.2 TO 0.4 FT WIDE-NUMEROUS LOCAL CALCITE VEINS ARSENOPYRITE 1 % THROUGHOUT-FOLIATIO N 50 TO 60 LOWER CONTACT SHARP AT 50	
30.6	6.3		GWKE	META WITH POSSIBLE MINOR META-DIABAS 60 E BANDS-MG BECOMING FG DOWNHOLE-GREY GREEN FELDSPAR AMPHIBOLE WITH BIOTIT E RICH ZONES-NUMEROUS LOCAL CALCITE VEINS & STRINGERS-LOWER CONTACT SHAR P	
				TS-C-73-3201 @ 27.3' META GWKE	
34.0	3.4		GWKE	META-AS TO 30.6-PY 2-3 % INCREASING 60 IN CONTENT DOWNHOLE-LOWER CT SHARP	
34.5	0.5		GWKE	META-AS TO 30.6 BUT FINELY BEDDED (C 80	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				OMPOSITIONAL DIFFERENCES)-WELL FOLIATED-LOWER CT LOST BECAUSE OF CALCITE VEIN	
40.9	6.4		VOLC	ANDESITE BASALT-FG GREY GREEN-MASSIVE-LOCAL SPKS PY PO . 1%-PARTS WEAKLY MAGNETIC-LOWER CT SHARP 50 36-0 TO 38.0-FRACTURED CORE WITH NUMEROUS LOCAL CALCITE VEINS	
41.1	0.2		RHY	PORPHYRITIC-MG WHITE TO LIGHT GREY WEAKLY FOLIATED-MINOR MICA QTZ PORPHYRIES IN A FELDSPAR MATRIX-MINOR CALCITE SPKS PO . 1%-LOWER CT SHARP 50	
45.8	4.7		VOLC	AS TO 40.9	
46.1	0.3		RHY	PORPHYRITIC-AS TO 41.1-LOWER CT SHARP AT 70	
47.0	0.9		VOLC	AS TO 40.9-LOWER CT SHARP AT 70 46.1 TO 46.2 & 46.8 TO 46.9-PORPHYRITIC RHYOLITE BANDS WITH SHARP CTS	
48.4	1.4		RHY	PORPHYRITIC-AS TO 41.1-SPKS CP PO 1%	
48.9	0.5		QTE	HIGHLY MICACEOUS FELDSPATHIC-MG LIGHT GREY MOTTLED TEXTURE-INTERFINGERED (DISTURBED) WITH FOLLOWING UNIT-LOWER CT IRREGULAR & UNDULATING 48.6 TO 48.7-BAND PORPHYRITIC RHY	
51.0	2.1		VOLC	AS TO 40.9-49.6 TO 49.8 MICACEOUS FELDSPATHIC.QTE BAND DISTURBED BY FOLLOWING VOLCANIC FLOW-LOWER CT SHARP & UNDULATING AT 30	
53.2	2.2		VOLC	AS TO 40.9-LOWER CT IRREGULAR 51.0 TO 51.2 MICACEOUS FELDSPATHIC QTE DISTURBED (INTERFINGERED) BY FOLLOWING VOLCANIC FLOW	
53.3	0.1		QTE	MICACEOUS FELDSPATHIC-AS TO 48.9-SHARP LOWER CT AT 30 DEGREES	
53.8	0.5		GWKE	META-MG GREY-GREEN FELDSPAR AMPHIBOLE-RICH BIOTITE WELL FOLIATED 60 DEGREES-LOWER CT SHARP AT 60-BANDED DUE TO COMPOSITIONAL DIFFERENCES	60
54.2	0.4		RHY	PORPHYRITIC-AS TO 41.1-LOWER CT LOST DUE TO GROUND CORE	
55.0	0.8		GWKE	META-AS TO 53.8 54.6 TO 54.7-PORPHYRITIC RHYOLITE AS TO 41.1 WITH SHARP UPPER AND LOWER CONTACTS AT 50 & 60 RESPECTIVELY	60
55.3	0.3		QTE	MICACEOUS FELDSPATHIC-POSSIBLE TUFF LIGHT GREY-MG TO CG-WITH QTZ CLASTS UP TO 0.1 INCHES-MINOR PINK FELDSPAR PO PY 2-3 %-VERY WEAKLY FOLIATED-LOWER CT SHARP AT 70 TS-C-73-3202 @ 55.2' RECRYSTALLIZED GR	
56.7	1.4		GWKE	META-AS TO 53.8 55.7 TO 56.1-PORPHYRITIC RHYOLITE AS TO 41.1-BROKEN CORE	
57.4	0.7		GWKE	META-AS TO 53.8-LOWER CT SHARP AT 65	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				56.7 TO 57.0-QTE-MICACEOUS & FELDSPATHIC AS TO 48.9 BECOMING DIRTIER DOWNHOLE & INTERFINGERED BY FOLLOWING METAGWKE	
60.0	2.6	MVW	RHY	PORPHYRITIC-AS TO 41.1-PO CLCTS CP SPKS 2-3 %	
				TS-C-73-3203 @ 58.0' META PEBBLY ARK	
62.2	2.2		GWKE	META-AS TO 53.8-FOLIATED AT 60-LOCAL CALCITE STRINGERS	
63.6	1.4		DIA	META-MG TO CG-GREY GREEN-FELDSPAR AMPHIBOLE-RICH-WEAKLY FOLIATED AT 60 RESEMBLES METAGWKE BUT LACKING BIOTITE AND FOLIATION-CT WITH METAGWKE INDISTINCT	60
64.8	1.2		GWKE	META-AS TO 53.8-LOCAL QTE BANDS UP TO 0.5 INCHES-LOCAL CALCITE STRS-FOLIATED STRONGLY-LOWER CT INDISTINCT	70
66.1	1.3		DIA	META-AS TO 63.6	
68.2	2.1		GWK	META-AS TO 53.8	70
73.7	5.5		GWKE	META-FG LAMINATED BROWNISH GREY TO CHLORITE GREEN-FELDSPAR RICH & CHLORITE RICH INTERLAMINATIONS-QTZ TREMOLITE NEEDLES-LOCAL BANDS DIOPSIDE SKARN 0.5 TO 4.0 IN CHES (40 % OF UNIT) CG CALCITE DIOPSIDE IN SHARP CONTACT WITH META-ARKOSE-LOWER CT SHARP AT 70-LAMINATED AT 60	60
				69.4 AND 71.6-SLUMPING AT ARKOSE-SKARN CONTACT TS-C-73-3204 @ 68.8' META GWKE	
				71.4 TO 71.5-QUARTZ VEIN	
77.0	3.3		ARK	META-FG LIGHT GREY MICACECUS FOLIATION PLANES-QTZ FELDSPAR-SHARP LOWER CONTACT AT 50	
78.1	1.1		AMPH	GARNETIFEROUS-CG-GREY GREEN-BIOTITE FELDSPAR AMPHIBOLE UP TO 0.5 INCHES RED GARNETS-WEAKLY FOLIATED-BANDED (COMPOSITION DIFFERENCES)-SHARP LOWER CONTACT AT 45-SLIGHTLY MAGNETIC (MAGNETITE 1%)	
80.0	1.9		GWKE	BIOTITE-CHLORITE (MTSD) WITH BANDS OF AMPHIBOLE-OCCASSIONAL GARNETS AT 79.0 TO 79.2-FG-GREY GREEN-SCFT-FINELY LAMINATED & BANDED (COMPOSITIONAL DIFFERENCES)	
				78.3 TO 78.4 JAGGED (SAWTOOTH APPEARANCE) DEPOSITIONAL CONTACT FG AND CG UPHOLE & DOWNHOLE FROM CONTACT,RESPECTIVELY-MAGNETITE 1 % SPKS CP-LOWER CT LOST (BROKEN CORE)	
				TS-C-73-3205 @ 79.5' BIO AMPH	
81.0	1.0		AMPH	AS TO 78.1	
81.6	0.6		SKN	DIOPSIDE-CG-LIGHT GREEN-CALCITE DIOPSIDE-FINER GRAINED EQUIVALENT OF VERY COARSE-GRAINED SKARN	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				TS-C-73-3206 @ 81.1' SKARN	
82.7	1.1		GWKE	META-AS TO 73.7 WITH LOCAL BANDS DIOPSIDE SKARN & CALCITE STRS	45
90.0	7.3		DIA	META-MG TO CG-GREY GREEN-FELDSPAR AMPHIBOLE-RICH-WEAKLY FOLIATED-LOCAL CALCITE STRS-LOWER CT SHARP AT 50	
90.9	0.9		ARK	META-AS TO 77.0-LOWER CT SHARP AT 50	50
105.3	14.4		DIA	META-AS TO 90.0-LOWER CT SHARP AT 60	60
109.1	3.8		ARK	META-AS TO 77-0-FOLIATION 65 TO 106.0 70 AT 109.0-LOWER CT SHARP AT 70	
155.0	45.9		DIA	META-AS TO 90.0-MINOR LOCAL CALCITE VEINS & STRS	
156.7	1.7	MVW	UM	CONTACT ZONE-FG-DK GREEN-WEAKLY FOLIATED-SERPENTINE CHLORITE-SPKS CP 1-2 % MAGNETITE 1-2 %-LOWER CT SHARP AT 60 DEGREES	
				156.0 TO 156.2-LOCAL GARNETIFEROUS AMPHIBOLITE-CG-DK BLACK GREEN-CHLORITIC	
169.3	12.6	MVVW	UM	PERIDOTITE-FG TO MG-MOUSE GREY BECOMING LESS SERPENTINIZED & MORE TALCOSE DOWNHOLE-STRONGLY MAGNETIC-MAGNETITE 3-4 %-LOCAL CLOTS PO CP 1%-LOCAL BANDS PALE GREEN TALC & SERPENTINE UP TO 100 %	
171.6	2.3	MVVW	UM	TYPE C-FEW EQUANT OLIVINES IN A HIGHLY TALC MATRIX-MAGNETITE 1-2 %-LOCAL PO CP 1%	
187.8	16.2	MVVW	UM	TYPE C-PRISMATIC OLIVINES BECOMING EQUANT & DECREASING IN SIZE & PERCENTAGE DOWNHOLE-WEAKLY FOLIATED-MT 1-2 %-SPKS PO CP 1%-LOWER CT AT 15 DEGREES (FLOW FOLDED)	
188.6	0.8	MVW	UM	PERIDOTITE-TALCOSE-FLOW FOLDED-PO CP 4-5 % AT BASE OF FLOW-MT 1-2 %	
196.2	7.6	MVVW	UM	TYPE C-OCCASIONAL HUSKY TABLETS OF OLIVINE-MT 1-2%-PO PY 1%-LOWER CONTACT AT 15 (FLOW FOLDED)	
197.7	1.5	MVVW	UM	MASSIVE-TALCOSE-MT 1-2%-SPKS PO CP 1%	
199.9	2.2	MVVW	UM	TYPE C-AS TO 196.2-MT 1-2%-SPKSPO CP 1%	
203.1	3.2		UM	TYPE C-OCCASIONAL HUSKY TABLET OLIVINE BECOMING EQUANT DOWNHOLE	
203.6	0.5		PEG	QTZ FELDSPAR-CG WHITE-SHARP UPPER & LOWER CONTACTS	
214.5	10.9		UM	TYPE C-OLIVINES DECREASING TO 0% & MORE TALCOSE DOWNHOLE	
				211.0 TO 213.1-BROKEN CORE	
				208.2 TO 213.1-FOLIATED 20 DEGREES MT 2-3%	
224.3	9.8		UM	TYPE C-MT 2-3%	
239.4	15.1		UM	TYPE B-SOME TYPE A (MINOR)-MT 2-3%	
251.2	11.8		UM	TYPE B WITH SOME TYPE A-GRADING INTO TYPE C-MT 2-3%	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
252.7	1.5		UM	TALCOSE-FOLIATED WITH NUMEROUS QTZ FELDSPAR VEINS	50
253.5	0.8		UM	TYPE C-MT 2-3%	
256.1	2.6		UM	MASSIVE-TALCOSE WITH DEVELOPMENT OF TREMOLITE SUNS DOWNHOLE-MT 1-2%-LOWER CT SHARP AT 50 DEGREES	
257.9	1.8		UM	ALTERED ZONE-FG TO VFG-DK GREEN-TALC CHLORITE-WEAKLY FOLIATED TO MASSIVE -SIMILAR AS TO 156.7-CUBIC CRYSTALS MT 3-4%-LOWER CT SHARP	
258.6	0.7		UM	GREY-TREMOLITE SUNS-TALCOSE-MT 1-2% LOWER CT SHARP AT 50 DEGREES	
260.7	2.1		UM	MASSIVE-TALCOSE-GREY-FG TO CG-MT 1-2 %-LOWER CT SHARP	
261.3	0.6		UM	AS TO 258.6-MT 1-2%-LOWER CONTACT GR ADATIONAL	
262.3	1.0		UM	AS TO 257.9-MT 1-2%-LOWER CONTACT GR ADATIONAL	
264.0	1.7		UM	AS TO 257.9-LOWER CT GRADATIONAL AND INCREASING MT UP TO 4-5 % DOWNHOLE	60
264.9	0.9		UM	AS TO 257.9-MT CUBES UP TO 0.1 INCHES 3-4%-LOWER CT GRADATIONAL	
271.6	6.7		UM	AS TO 258.6-LOWER CT GRADATIONAL MT 1-2%	
272.8	1.2		UM	AS TO 260.7 BUT WITH LOCAL TREMOLITE SUNS-MT 1-2%	
273.6	0.8		PEG	AS TO 203.6-LOWER CT IRREGULAR	
274.0	0.4		UM	AS TO 260.7-LOWER CT SHARP AT 65 MT 2-3%	
274.8	0.8		UM	AS TO 257.9-MT CUBES 4-5%-LOWER CT SHARP AT 75	
275.4	0.6		UM	AS TO 260.7-MT 2-3%	
286.3	10.9		UM	TUPE C-PRISMATIC TO HUSKY TO EQUANT OLIVINES GOING DOWNHOLE-MT 1-2%	
289.3	3.0		UM	AS TO 260.7-WEAKLY FOLIATED AT 287.5 MT 1-2%	50
290.2	0.9		UM	TYPE C-HUSKY TABLETS OF OLIVINE-MT 1 2-%	
294.6	4.4		UM	MASSIVE-TALCOSE WITH LOCAL TREMOLITE SUNS INCREASING DOWNHOLE-LOWER CT SHARP-MT 1-2%	
295.0	0.4		UM	AS TO 257.9-MT 1%	
299.1	4.1		UM	AS TO 294.6-MT 1%-LOWER CT SHARP AT 75 DEGREES	
301.0	1.9		UM	AS TO 257.9-WEAKLY MAGNETIC	
305.3	4.3		UM	ABUNDANT CG TREMOLITE SUNS (PALE GRE Y GREEN) BECOMING WELL FOLIATED AT 45 LIGHT GREY MORE TALCOSE DOWNHOLE LOWER CT SHARP-WEAKLY MAGNETIC	45
308.7	3.4		GWKE	META-FG TO MG-GREY GREEN-WELL FOLIATED-AMPHIBOLE FELDSPAR CHLORITE BIOTITE RICH FOLIATION PLANES-FINER GRAINED DOWNHOLE-BANDED WITH GRADATIONAL CONTACTS TS-C-73-3207 @ 306.3' META GWKE	45

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
310.6	1.9		UM	AS TO 257.9-LOWER CT SHARP AT 30 MT CUBES 2-3%	
312.5	1.9		UM	AS TO 258.6-WEAKLY FOLIATED-WEAKLY MAGNETIC-LOWER CT SHARP AT 45	45
313.8	1.3		UM	AS TO 257.9-LOWER CT AT 60	
316.8	3.0		ARG	META (META-GWKE) BANDS (BIOTITE-RICH QTZ-FELDSPAR-CHLORITE-MINOR AMPHIBOLE) DK GREY INTERBANDED WITH GREY FELDSPATHIC QTE (SMALL QTZ CLASTS) & ARKOSIC BANDS IWTH SHARP CONTACTS	55
317.1	0.3		UM	AS TO 257.9-LOWER CT SHARP AT 60	
317.7	0.6	MVN	GWKE	META-MG TO CG AMPHIBOLE BIOTITE-RICH FELDSPAR-GARNETIFEROUS-DK GREY GREEN PY 1% SPKS CP-LOWER CT GRADATIONAL	
319.9	2.2		UM	AS TO 257.9-MT CUBES 3-4% DECREASING DOWNHOLE-SPKS CP 1-2 %	
323.1	3.2		UM	AS TO 258.6-WEAKLY FOLIATED-MT 2-3%	45
327.2	4.1		UM	TUPE C-MT 1-2%	
331.8	4.6		UM	TUPE C-MT 1-2%	
334.6	2.8		UM	TYPE C-MT 1-2%	
336.0	1.4		UM	TYPE B-SUME TYPE C-LOCAL PALE GREEN TALC TREMOLITE BNADS-MT 1-2%	
340.9	4.9		UM	TYPE C-MT 1-2%	
344.9	4.0		UM	TYPE C-MT 1-2%-LOCAL TALC TREMOLITE BANDS	
347.0	2.1		UM	GREY-OLIVINE & TALC EYES (BOUDINS) IN A FG UM FLOW MATRIX INTERBANDED WITH MASSIVE TALCOSE UM & LOCAL TALC TREMOLITE BANDS TS-C-73-3208 @ 346.0' META UM	
349.3	2.3		UM	BANDED-LIGHT (TALC-RICH) AND DARK UM BANDS-MT 1-2% IN DARK BANDS	80
349.9	0.6		UM	TYPE C-FOLIATED-MT 1-2%-SIMILAR AS TO 347.0	80
351.5	1.6		UM	AS TO 258.6-MT 1-2%-LOWER CT SHARP AT 40 DEGREES	
353.5	2.0		UM	AS TO 257.9-MT CUBES 2-3%-LOWER CT SHARP AT 50-WEAKLY FOLIATED	50
355.3	1.8		SCH	AMPHIBOLE-BIOTITE WITH CG BIOTITE ZONES-LOCAL BANDS 1 INCH WIDE MASSIVE & SLIGHTLY TALCOSE UM WITH SHARP CONTACTS AT 70	70
355.8	0.5		GWKE	META-FG-GREY-MICACEOUS FOLIATION PLANES WITH SMALL TREMOLITE NEEDLES-LOWER CT GRADATIONAL TS-C-73-3209 @ 355.5-META GWKE	55
358.3	2.5		VOLC	ANDESITE-BASALT-FG-GREY GREEN-WEAKLY FOLIATED-SMALL LOCAL QTZ STRINGERS LOWER CT SHARP AT 40	55
359.4	1.1		UM	GREY-SLIGHTLY TALCOSE-STRONGLY FOLIATED-UPPER AND LOWER CONTACTS ALTERED BUT SHARP-MT 2-3%	35
384.9	25.5		DIA	META-AS TO 90.0-WEAKLY FOLIATED-LOWER CT SHARP AT 35 362.9 TO 363.5, 364.9 TO 365.5 & 369	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				.5 TO 371.1 HAVE WELL FOLIATED CG ZONES WITH NUMEROUS PARALLEL QTZ VEINS (POSSIBLE METAGWKE)	
385.3	0.4		UM	AS TO 257.9-MT CUBES 2-3%-LOWER CT SHARP AT 45	
387.4	2.1		UM	AS TO 359.4-SLIGHTLY CONTORTED-FLOW BANDED UNIT-STRONGLY MAGNETIC-MT 5-6 %-LOWER CT AT 50	45
388.6	1.2		DIA	META-AS TO 90.0-WELL FOLIATED-FG-ALTERED ZONES AT CONTACTS-LOWER CT SHARP AT 55	55
392.8	4.2		UM	AS TO 359.4 BUT WEAKLY FOLIATED BECOMING DARKER GREY DOWNHOLE-MT 1-2%-LOWER CT SHARP AT 45	
394.3	1.5		UM	AS TO 257.9-MT CUBES 1%-LOWER CT SHARP AT 45	
395.6	1.3		DIA	META-AS TO 90.0 BECOMING FG DOWNHOLE LOWER CT SHARP AT 80	
403.3	7.7		GWKE	META-META-ARGILLITE INTERBANDED WITH SIMILAR AS TO 316.8-LIGHT GREY BANDS (QTZ FELDSPAR MICA WITH MINOR TREMOLITE NEEDLES) INTERFINGERED WITH DK GREY & DK GREEN BANDS (AMPHIBOLE CHLORITE MICA TREMOLITE)-CTS SHARP TO GRADATIONAL-BANDS FROM FINE LAMINATIONS TO UP TO 1 INCH WIDE-WELL FOLIATED 60 AT 396.8,30 AT 398.3,45 AT 403 .1 TS-C-73-5210 @ 398.4' META GWKE	
404.1	0.8		SCH	AS TO 355.3-LOWER CT SHARP AT 50	
405.8	1.7		UM	AS TO 257.9 BECOMING LESS ALTERED DOWNHOLE	
406.1	0.3		UM	AS TO 258.6-LOWER CT AT 25	
407.2	1.1	MVVW	UM	AS TO 260.7-MT 1-2%-LOWER SHARP AT 90 DEGREES	
412.1	4.9		UM	TYPE C-LOWER CT SHARP AT 45-MT 1-2%	
414.0	1.9		UM	AS TO 257.9-LOWER CT SHARP AT 70	
415.8	1.8		UM	AS TO 258.6-LOWER CT SHARP AT 60-MT 1-2%	
416.2	0.4		UM	AS TO 257.9-LOWER CT SHARP AT 55-MT CUBES 5%	55
417.8	1.6		DIA	META-AS TO 90.0-LOWER CT SHARP AT 75	75
418.4	0.6		VOLC	AS TO 358.3-LOWER CT SHARP AT 70	70
				418.2 TO 418.3-META-DIABASE	
421.9	3.5		DIA	META-AS TO 90.0-LOWER CT SHARP AT 65	65
				421.6 TO 421.7-QTZ VEIN	
425.6	3.7		QTE	MICACEOUS FELDSPATHIC-FG TO MG-GREY SLIGHT BANDING DUE TO COMPOSITION DIFFERENCES-LOWER CT SHARP AT 70	
428.0	2.4		VOLC	AS TO 358.3-SMALL QTZ CALCITE STRS-LOWER CT SHARP AT 45	
429.4	1.4		ARK	META-FG-FELDSPAR QTZ MINOR BIOTITE LOCAL QTE BANDS (GRADATIONAL CONTACTS)	
432.0	2.6		QTE	GRITTY-FG-BUFF GREY-MICACEOUS-FELDSPATHIC-MINOR CALCITE-BECOMING GREY &	65

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				MORE ARKOSIC NEAR BOTTOM OF UNIT-LOC AL ARKOSIC BANDS-SIMILAR TC 22.4-PO PY 1-2 % AS SMALL BLEBS ANC STRS PAR ALLEL TC FOLIATION-LOWER CT SHARP AT 65 DEGREES TS-C-73-3211 @ 430.8' META ARK	
438.2	6.2		ARK	META-AS TO 429.4-LOWER CT SHARP	
450.0	11.8		DIA	META-AS TO 90.0	
450.3	0.3		UM	MASSIVE-SERPENTINIZED-PALE GREEN-CG MT 1 %	
451.6	1.3		DIA	META-AS TO 90.0-LOWER CT SHARP	
452.0	0.4		UM	AS TO 257.9-MT CUBES 5-6 %-LOWER CT SHARP AT 75	
453.5	1.5		UM	AS TO 260.7-MT 2-3 %	
461.7	8.2		UM	TYPE C-MT 2-3 %	
461.9	0.2		UM	AS TO 256.6-MT 1-2 %-LOWER CT SHARP AT 70 DEGREES	
462.0	0.1		UM	AS TO 260.7-LOWER CT SHARP AT 70 DEG REES-MT 2-3 %	
462.9	0.9		UM	AS TO 257.9-LOWER CT SHARP AT 80 DEG REES-MT 3-4 %	
465.3	2.4		UM	AS TO 450.3-LOWER CT SHARP AT 65	
465.7	0.4		DIA	META-AS TO 90.0	
470.0	4.3		VOLC	AS TO 358.3-LOCAL BANDS BICTITE AMPH IBOLE SCHIST (BROKEN CORE)	
470.2	0.2		UM	AS TO 257.9-MT CUBES 2-3 %-LOWER CT SHARP	
471.2	1.0		VOLC	AS TO 358.3-LOWER CT SHARP AT 90	
471.6	0.4		UM	AS TO 257.9-MT CUBES 2-3 %-LOWER CT GRADATIONAL	
472.6	1.0		VOLC	AS TO 358.3-LOWER CT SHARP AT 70	
473.4	0.8		GWKE	META-FG TO MG-GREY GREEN-AMPHIBOLE F ELDSPAR-MINOR BIOTITE-LOCAL MINOR QT E BNADS (LIGHT GREY WITH SHARP CONTA CTS)-LOWER CT SHARP AT 70-SPKS PY LE SS THAN 1 %	70
473.8	0.4		VOLC	AS TO 358.3-LOWER CT SHARP AT 60	
477.4	3.6		UM	AS TO 260.7-MT 1-2 %	
479.5	2.1		UM	TYPE C-MT 1-2 %	
494.7	15.2		UM	AS TO 260.7 BECOMING LESS TALCOSE TA LCOSE & SLIGHTLY COARSER GRAINED DOW NHOLE-MT 1-2 %-FOLIATED WEAKLY 485.7 TO 486.3 AT 55 AND 488.2 TC 488.6 AT 35 (FLOW BANDING)	
496.1	1.4		UM	AS TO 256.6-LOWER CT SHARP BUT IRREG ULAR-MT 1 %	
501.0	4.9		UM	AS TO 260.7-MT 1-2 %	
504.9	3.9		UM	AS TO 260.7 BUT SLIGHTLY PALE GREEN (SERPENTINIZED) AND LESS TALCOSE-NON MAGNETIC	
508.3	3.4		UM	AS TO 260.7 BECOMING WEAKLY FOLIATED 55 DOWNHOLE-MT 1-2 %	
511.9	3.6		UM	TYPE A WITH SOME TYPE C-MT 1-2 %	
515.1	3.2		UM	TUPE B-MT 1-2 %	
518.2	3.1		UM	TYPE A-MT 1-2 %	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
518.4	0.2		UM	TYPE B-MT 1-2 %	
519.5	1.1		UM	TUPE A-MT 1-2 %	
520.0	0.5		UM	TYPE B-MT 1-2 %	
520.7	0.7		UM	TYPE A-MT 1-2 %	
521.3	0.6		UM	TYPE B-MT 1-2 %	
522.1	0.8		UM	TYPE A-MT 1-2 %	
526.4	4.3		UM	TYPE C-MT 1-2 %	
527.6	1.2		UM	TYPE C-MT 1-2 %	
529.0	1.4		UM	TYPE C-MT 1-2 %	
529.4	0.4		PEG	BRECCIA-LARGE QTZ FELDSPAR AMPHIBOLE RAGMENTS IN A FG DARK GREY TALCOSE MATRIX-CONTACTS SHARP	
533.1	3.7		UM	TYPE C-MT 1-2 %	
534.1	1.0		UM	TYPE B-MT 1-2 %	
535.4	1.3		UM	TYPE C-MT 1-2 %	
537.3	1.9		UM	TYPE C-MT 1-2 %	
537.6	0.3		UM	TYPE B-MT 1-2 %	
540.6	3.0		UM	TYPE C-MT 1-2 %	
541.0	0.4		UM	TYPE B-MT 1-2 %	
544.5	3.5		UM	VARIETY TYPE A & B-COMPACT GRANULAR OLIVINE ZONES WITH LESS COMPACT PRIS MATIC EQUANT OLIVINES-MT 1-2%	
545.4	0.9		UM	TYPE B-MT 1-2 %	
545.6	0.2		PEG	BRECCIA-AS TO 529.4	
546.5	0.9		UM	TYPE B-MT 1-2 %	
547.3	0.8		PEG	BRECCIA-AS TO 529.4	
547.8	0.5		UM	TYPE B-MT 1-2 %	
548.1	0.3		PEG	BRECCIA-AS TO 529.4	
553.3	5.2		UM	TYPE B-MT 1-2 %	
554.2	0.9	MVW	UM	VARIETY TYPE A & B-AS TO 544.5-MT 1-1 %-CHALCOPYRITE CLOTS 5 %	
556.7	2.5		UM	AS TO 544.7-LOCAL LARGE WHOLE FRAGMENTS (INCORPORATED INTO UM FLOW)-MT 1-2 %	
557.1	0.4		PEG	BRECCIA-AS TO 529.4	
561.4	4.3		UM	AS TO 544.5-MT 1-2 %	
561.9	0.5	M PEG		BRECCIA-AS TO 529.4-CHALCOPYRITE P.S.C-73-2899 (COBANITE) 25 % IN THE MATRIX BETWEEN QTZ FELDS PAR FRAGMENTS-MT 1 % 561.4 TO 561.5-MASSIVE CHALCOPYRITE	
564.6	2.7	MVW	UM	AS TO 544.5 WITH LOCAL PEGMATITE BRECCIA ZONES-CHALCOPYRITE CLOTS 2-3 % MT 1-2 %	
568.0	3.4		UM	AS TO 544.5-MT 1-2 %	
570.0	2.0		UM	TYPE B-MT 1-2 %	
571.9	1.9		UM	AS TO 544.5-OLIVINES DECREASING DOWN HOLE-MT 1-2 %	
580.0	8.1		UM	TYPE C-OLIVINES SMALL AND EQUANT-LOCAL 1 INCH PEGMATITE BANDS AT 572.9 574.9,577.4,578.2 AND 579.C	
582.0	2.0		UM	WITH 50 % PEGMATITE (INTRUDED VERY IRREGULARLY THROUGHOUT THE UM)-LOCAL VERY TALCOSE ZONES	
587.9	5.9	MVVW	UM	TYPE C WITH SPKS CHALCOPYRITE PO THR	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				OUTHOUT 1%-LOWER CT FOLIATED (FLOW FOLIATION-MT 1-2 %	
592.8	4.9	MVW	UM	TYPE C-MT 1-2 %-587.9 TO 588.4-CHALCOPYRITE SPKS 2-3 %	
593.6	0.8		UM	AS TO 260.7-MT CUBES 2-3 %	
595.8	2.2		UM	AS TO 257.9-LOWER CT SHARP AT 80	
599.3	3.5		UM	TYPE A-MT 1-2 %	
600.6	1.3		UM	TYPE B-MT 1-2 %	
603.9	3.3		UM	AS TO 260.7-LOCAL TALC RICH ZONES-MT 1-2 %	
604.5	0.6		UM	MASSIVE-PALE GREEN-TALC ZONE	
608.3	3.8		UM	AS TO 260.7 BUT WITH NUMEROUS IRREGULAR MASSIVE TALC RICH ZONES MT 1-2 %	
610.0	1.7		UM	TYPE C-MT 1-2 %	
619.1	9.1		UM	TYPE B-MT 1-2 %	
619.7	0.6		UM	TYPE C-MT 1-2 %	
624.2	4.5		UM	TYPE B-MT 1-2 %	
625.8	1.6		UM	TYPE A-MT 1-2 %	
626.2	0.4		UM	TYPE B-MT 1-2 %	
626.6	0.4		UM	TYPE A-MT 1-2 %	
628.1	1.5		UM	TYPE C-MT 1-2 %	
629.4	1.3		UM	TYPE A-MT 1-2 %	
630.5	1.1		UM	TYPE C-MT 1-2 %	
630.7	0.2		PEG	BRECCIA-AS TO 529.4	
636.9	6.2		UM	TYPE C-LARGE HUSKY & EQUANT CLIVINES (VARIABLE %)-MT 1-2 %	
637.3	0.4		PEG	BRECCIA-AS TO 529.4	
640.8	3.5		UM	TYPE C-MT 1-2 %	
642.1	1.3		UM	TYPE B-MT 1-2 % LOWER CT FOLIATED (FLOW CT)	
644.4	2.3		UM	TYPE B-MT 1-2 %	
644.7	0.3		UM	TYPE A-MT 1-2 %	
647.1	2.4		UM	TYPE B-MT 1-2 %	
650.2	3.1		UM	TYPE C-MT 1-2 %	
651.1	0.9		UM	TYPE B-MT 1-2 %	
651.6	0.5		UM	TYPE A-MT 1-2 %	
654.2	2.6		UM	TYPE B-MT 1-2 %-651.8 TO 652.0 PEGMATITE BRECCIA	
654.8	0.6		UM	TYPE A-MT 1-2 %	
659.7	4.9		UM	TYPE B-MT 1-2 %	
660.8	1.1		UM	TYPE A-MT 1-2 %	
662.3	1.5		UM	TYPE C-MT 1-2 %	
662.6	0.3		UM	TYPE B-MT 1-2 %	
662.8	0.2		UM	TYPE A-MT 1-2 %	
663.3	0.5		UM	TYPE A-WITH LOCAL TALC RICH ZONES MT 1-2 %	
665.6	2.3		UM	TYPE C-MT 1-2 %	
678.0	12.4		UM	VARIETY OF TYPE B GRADING INTO TYPE A DOWNHOLE-PRISMATIC AND EQUATN OLIVINES BECOMING LARGER,STRONGLY ALIGNED (FLOW FOLIATION) AND HIGHER IN PERCENTAGE DOWNHOLE (IE-TO TOP OF FLOW UNIT)-LOWER CT GRADATIONAL OVER 0.5 FEET	
680.3	2.3		UM	AS TO 260.7-LOCAL TREMOLITE SUNS	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
689.9	9.6		UM	TYPE C-LARGE EQUANT OLIVINES INCREASING IN % DOWNHOLE-WEAK FOLIATION-LOWER CT GRADATIONAL OVER 0.3 FEET-MT 1-2 %	
692.2	2.3		UM	AS TO 260.7-LOWER CT SHARP AT 90	
693.4	1.2		UM	AS TO 257.9 MT CUBES 2-3 % LOWER CT SHARP	
695.4	2.0		GWKE	META OR META-DIABASE-FG TO MG-GREY GREEN-AMPHIBOLE RICH (AMPHIBOLITIC) FELDSPAR-CHLORITE-MINOR BICTITIC ZONES-WEAKLY FOLIATED 90	
698.2	2.8		GWKE	META-META-ARKOSE INTERLAYERED BANDS AND LAMINATIONS WITH GRADATIONAL CTS META-ARKOSE (LIGHT GREY-FG-MINOR CHLORITE-TREMOLITE MICA) UNITS INCREASING DOWNHOLE	80
698.4	0.2		AMPH	CG-HORNBLENDE RICH-DK GREEN-MINOR FELDSPAR-POSSIBLE ALTERED GWKE-LOWER CONTACT SHARP AT 75	
706.2	7.8		GWKE	META-META-ARKOSE-AS TO 698.2	70
717.7	11.5		UM	MG-GREY-BANDS INTERLAYERED WITH MG TO CG GREY-GREEN BNADS OF CHLORITE SERPENTINE BANDS FROM 0.1 TO 3.0 INCHES WIDE WITH GRADATIONAL TO SHARP IRREGULAR CONTACTS-FOLIATED 65 AT 713.0 AND 40 AT 714.2-SPKS CP PC 1 % LOWER CT SHARP AT 40 TS-C-73-3212 @ 714.1' META GWKE	
718.6	0.9		AMPH	AS TO 698.4-SPKS PO CP 1%-LOWER CT SHARP AT 75	
719.3	0.7		UM	AS TO 717.7-LOWER CT SHARP AT 50	
720.4	1.1		GWKE	AS TO 695.4-LOWER CT SHARP AT 40	
724.4	4.0		GWKE	BIOTITE ANTHOPHYLLITE (POSSIBLE CORDIERITE) SCHIST-MG GREY TO GREY BROWN SPKS PO CP 1%-LOWER CT SHARP AT 50 TS-C-73-3213 @ 723.3' METAGWKE	
724.8	0.4		QTE	FELDSPATHIC-FG GREY PO 1-2% & BIOTITE (5%) ALONG FOTN PLANES-LOWER CT SHARP AT 50-15 TO 20 CPS	
725.3	0.5		GWKE	AS TO 724.4-LOWER CT SHARP AT 40	
726.0	0.7		QTE	AS TO 724.8 BUT WITH NUMEROUS (60%) BIOTITE RICH ZONES-15 TO 20 CPS	
726.6	0.6		QTE	AS TO 724.8 BUT WITH META-DIABASE INTRUSIONS THROUGHOUT-15 TO 20 CPS 726.0 TO 726.1-META-DIABASE	
726.9	0.3		QTE	CG-ROUNDED QTZ GRAINS COMPACTED TOGETHER-LIGHT GREY-VERY MINOR TO NO FELDSPAR-MAFICS 5% (CHLORITE) TRACES CALCITE-LOWER CT SHARP BUT IRREGULAR 15-20 CPS	
729.5	2.6		QTE	FG-DK GREY WITH MAFICS 15-20% AS BIO TITE & CHLORITE SELVAGES GIVING AN INDISTINCT PEBBLY APPEARANCE-WEAKLY FOTO-MAFIC CONTENT DECREASING DOWNHOLE-LOWER CT SHARP-15 TO 20 CPS	60

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
729.6	0.1		QTE	PEBBLY-ELONGATED QTZ PEBBLES (50%) UP TO 0.1 INCH LONG AT 60 DEGREES WI TH WELL DEVELOPED MATRIX OF BIOTITE SELVAGES & FG QTZ-LOWER CT SHARP AT 60-15 TO 20 CPS	
730.3	0.7		QTE	FG-MEDIUM GREY-5% MAFICS (CHLORITE & MICA)-LOWER CT SHARP AT 60-15 TO 20 CPS	
743.3	13.0		RYDT	PORPHYRITIC-QTZ & FELDSPAR SUBROUNDE D PORPHYRIES IN A FG DK GREY QTZ FEL DSPAR MICA CHLORITE MATRIX-PORPHYRIE S INCREASE GRADUALLY IN SIZE UP TO 0.1 INCH DOWN TO 734.1 734.1 TO 734.4-PORPHYRIES UP TO 0.2 INCHES 734.4 TO 737.0-PORPHYRIES INCREASE IN SIZE UP TO 0.2 INCH DOWNHOLE 737.3 TO 738.7-PORPHYRIES 0.2 INCHES 738.7 TO 743.3-PORPHYRIES LESS THAN 0.05 INCHES & UNIFORM THROUGHOUT-MIN OR LOCAL QTZ RICH BNDS-SPKS PY .1% LOWER CT SHARP	
747.5	4.2		QTE	FG-DK GREY-WEAKLY FOTD-MAFICS 15-20% (BIOTITE CHLORITE) WITH QTZ RICH ZON ES-SPKS PY 1%-LOCAL MICA CHLORITE RICH BANDS-POSSIBLE LOCAL INDISTINCT ELONGATED QTZ PEBBLY (LESS THAN 0.5 INCHES LONG) ZONES WITH BIOTITE SELV AGES-15 TO 20 CPS-MAFIC CONTENT DECR EASES DOWNHOLE	60
749.2	1.7		QTE	FG TO MG-LIGHT TO MEDIUM GREY-GRITTY (MINOR)-GRANULAR APPEARANCE-MAFICS 5-8% DECREASING DOWNHOLE-LOCAL PALE GREEN CHLORITE & MICA BNDS-LOWER CT SHARP-15 TO 20 CPS	
749.5	0.3		QTE	FG-DK GREY-BIOTITE 50-60%-PY 1-2%-15 TO 20 CPS	
753.4	3.9		QTE	FG TO MG-LIGHT TO MEDIUM GREY-OCCASI ONAL QTZ GRITS-GRANULAR-MAFICS 5-10% -LOCAL PALE GREEN CHLORITIC BNDS-SPK S PY 1%-LOWER CT SHARP AT 60-15 TO 20 CPS	
753.7	0.3		QTE	MG-GREY-50% WELL DEVELOPED CHLORITE & BIOTITE BNDS-LOWER CT SHARP AT 60 15 TO 20 CPS	60
754.1	0.4		QTE	AS TO 753.4-15 TO 20 CPS	
754.2	0.1		QTZ	VEIN-WHITE MASSIVE	
754.4	0.2		QTE	AS TO 753.4-15 TO 20 CPS	
754.7	0.3		QTZ	VEIN-AS TO 754.2	
754.9	0.2		QTE	AS TO 753.7 BUT CHLORITE BANDS LESS DEVELOPED-15 TO 20 CPS	
758.7	3.8		QTE	FG TO MG-DK GREY WITH LOCAL QTZ RICH BNDS-MAFICS 15-20% (BIOTITE CHLORITE)-LOCAL BIOTITE CHLORITE STRS AS POS SIBLE SELVAGES-OCCASIONAL QTZ GRIT	55

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				WEAKLY FOTD-15 TO 20 CPS 758.1 TO 758.2-DIOPSIDE SKARN	
759.1	0.4		QTE	PEBBLY-AS TO 726.9-WEAKLY FOTD-15 TO 20 CPS-15 TO 20 CPS	70
759.4	0.3		QTE	AS TO 758.7	
759.7	0.3		SKN	DIOPSIDE-CG-GREEN-CALCITE DIPSIDE QTZ-LOWER CT SHARP	
762.0	2.3		QTE	AS TO 758.7-15 TO 20 CPS	
762.2	0.2		QTE	PEBBLY-ELONGATED QTZ PEBBLES (75%) UP TO 0.6 INCHES AT 80 DEGREES WITH WELL DEVELOPED BIOTITE-CHLORITE MATRIX (SELVAGES)-15 TO 20 CPS	80
762.4	0.2		QTE	GREY-MASSIVE-BIOTITE CHLORITE 2-3% 15 TO 20 CPS	
762.6	0.2		SKN	AS TO 759.7-LOWER CT IRREGULAR	
763.4	0.8		QTE	AS TO 758.7-LOCAL BNDS DIOPSIDE SKN	
763.8	0.4		SKN	AS TO 759.7-LOWER CT SHARP & IRREGULAR	
764.2	0.4		QTE	AS TO 758.7-SPKS PY 1%-LOWER CT AT 80 DEGREES	
764.3	0.1		QTZ	VEIN-MASSIVE-CG-LOWER CT SHARP BUT IRREGULAR	
764.5	0.2		QTE	FG-DK GREY-MAFICS 40-50% (CHLORITE BIOTITE)-LOCAL CHLORITIC BNDS-SPKS PY 1%-15 TO 20 CPS	
765.0	0.5		QTE	FG TO MG-BUFF GREY TO PALE GREEN-BIOTITE CHLORITE (10%) AS SMALL PARALLEL STRS AT 75 DEGREES-SPKS PY 1%-15 TO 20 CPS	
765.9	0.9		QTE	PEBBLY-ELONGATED QTZ PEBBLES (50%) UP TO 0.8 INCHES LONG DECREASING IN SIZE & BECOMING INDISTINCT DOWNHOLE FG DK GREY MICA AS MATRIX & SELVAGES PY 1-2%-15 TO 20 CPS	
769.3	3.4		QTE	FG DK GREY WITH INDISTINCT ELONGATED QTZ PEBBLES ( ) 50% BECOMING INDISTINCT & DECREASING IN SIZE & DENSITY DOWNHOLE-CHLORITE & MICA AS MATRIX & SELVAGES DECREASING IN CONTENT DOWNHOLE-LOCAL CHLORITE BNDS-LOWER CT SHARP AT 70-PY 2-3%-20 TO 25 CPS	
769.4	0.1		QTZ	VEIN-QTZ WHITE MASSIVE-LOWER CT SHARP AT 70	
769.6	0.2		QTE	FG DK GREY-MICA CHLORITE 25%-15 TO 20 CPS	
770.4	0.8		QTE	SIMILAR AS TO 765-0-FG TO MG-WEAKLY FOTD-CHLORITE & MICA STRS PARALLEL TO FOTN-ONE SPECK GALENA-SPKS PY 1% 15 TO 20 PCS	75
771.4	1.0		QTE	TRANSLUCENT IRREGULAR SHAPED QTZ MASSES-SOME APPEAR TO BE ELONGATED PEBBLES UP TO 1 INCH LONG WITH SCATTERED CHLORITE & MICA 15-20%-LOCAL BND DIOPSIDE SKN-SPKS PY 1%-15 TO 20 CPS	
772.8	1.4		GWKE	META-MG-DK GREY GREEN-AMPHIBOLE & MI	45

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				CA RICH-MINOR FELDSPAR-STRONGLY FOTD SPKS PY PO 1%-LOWER CT SHARP	
774.2	1.4		QTE	PEBBLY-ELONGATED QTZ PEBBLES (TRANSL UCENT) 50% UP TO 1 INCH LONG BECOMIN G SMALLER & INDISTINCT DOWNHOLE-SPKS PY 1%-15 TO 20 CPS	75
774.9	0.7		QTE	AS TO 765-0-15 TO 20 CPS	
777.7	2.8		QTE	FG DK GREY-LOCAL QTZ RICHER BNDS-OCC ASIONAL QTZ GRIT-MAFICS 15 TO 20% BI OTITE CHLORITE-LOCAL INDISTINCT POSS IBBLE ELONGATED QTZ PEBBLES (UP TO 0.5 INCHES LONG) WITH BIOTITE CHLORI TE SELVAGES-WEAKLY FOTD-SPKS PY 1% 15 TO 20 CPS	75
779.6	1.9		QTE	MG-MEDIUM GREY-MASSIVE-GRANULAR APPE ARANCE WITH MINOR QTZ GRITS-LOCAL BI OTITE CHLORITE BNDS-SPKS PY 1%-15 TO 20 CPS	
779.8	0.2		QTZ	VEIN-WHITE MASSIVE	
780.7	0.9		QTE	AS TO 779.6 BUT LIGHTER GREY-QTZ GRI TS & COARSER GRAINED-15 TO 20 CPS	
781.4	0.7		QTE	MG TO CG-MASSIVE-GRANULAR-SUGARY APP EARANCE-MINOR QTZ GRITS-BIOTITE & CH LORITE (10%) AS BNDS SELVAGE LIKE IN APPEARANCE-MINOR INDISTINCT BANDING DUE TO VARIABILITY OF MAFIC CONTENT 15 TO 20 CPS	
782.1	0.7		SKN	AS TO 759.7	
782.6	0.5		QTE	PEBBLY-ELONGATE PEBBLES 1 INCH LONG (60%) GM FG DK GREY GREEN CHLORITE & MICA RICH QTZ MATRIX-NO DEFINITE CTS 15-20 CPS	90
785.6	3.0		QTE	AS TO 781-4-CG BECOMING FINER GRAINE D DOWNHOLE & LESS MAFIC (ORE BED)-LO WER CT GRADATIONAL-15-20 CPS	
790.7	5.1		QTE	AS TO 781.4-LOWER CT SHARP AT 70-15 TO 20 CPS	
791.0	0.3		QTE	SERICITIC-MG-LIGHT GREY-MAFICS 5%-LO WER CT SHARP AT 55-15 TO 20 CPS	
794.7	3.7		QTE	AS TO 781.4-LOWER CT SHARP-15-20 CPS	
794.9	0.2		QTZ	VEIN-WHITE MASSIVE	
795.6	0.7		QTE	PEBBLY-SEVERAL ELONGATED QTZ PEBBLES (25%) 0.1 TO 0.8 INCHES-WELL DEVELOP ED BIOTITE CHLORITE SELVAGES IN A CG DK GREY QTZ BIOTITE CHLORITE QTZ GRI TS MATRIX-WEAKLY FOTD-SPKS PY 1% 15-20 CPS	70
797.2	1.6		QTE	AS TO 781.4-15 TO 20 CPS	
797.5	0.3		QTE	PEBBLY-IRREGULAR ELONGATED QTZ MASSE S (PEBBLES) 0.05 TO 0.5 INCHES (75%) IN BIOTITE CHLORITE MATRIX-LOWER CT SHARP-15 TO 20 CPS	
801.2	3.7		QTE	AS TO 781.4-LOWER CT SHARP-15-20 CPS	
801.4	0.2		QTE	PEBBLY-ELONGATED QTZ PEBBLES (75%) 0.1 TO 0.3 INCHES-CHLORITE BIOTITE	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				MATRIX	
801.7	0.3		QTE	MG TO CG-MEDIUM GREY-QTZ GRITS NUMEROUS-STRS CHLORITE & MICA THROUGHOUT (25-30%) GIVING A WEAK FOLIATION AT 70-15 TO 20 CPS	
802.2	0.5		QTZ	VEIN-WHITE MASSIVE	
806.9	4.7		QTE	AS TO 801.7 BUT BECOMING LESS MAFIC & SERICITIC DOWNHOLE-SPKS PY 1% WEAKLY FOTD-LOWER CT SHARP AT 75-15 TO 20 CPS-ONE SPK GALENA AT 806.8 805.2 TO 806.9-MICACEOUS CONTENT UP TO 5% RUSTY RED ALTERED MICA ( ) 803.6 ONE QTZ PEBBLE 0.8 INCH LONG WITH BIOTITE CHLORITE SELVAGES	75
817.8	10.9		QTE	MG DK GREY-MAFICS 25% (CHLORITE-MICA) WITH LOCAL BIOTITE BNDS & BNDD APPEARANCE DUE TO % CHANGES OF MAFICS-CG-GRANULAR LIGHTER GREY & INCREASING CONTENT OF FIBROUS CHLORITE (TREMOLITE) DOWNHOLE-LOCAL IRREGULAR FIBROUS CHLORITE BNDS-QTZ GRITS NUMEROUS-SPKS PY 1% 815.1 TO 815.4 & 816.5 TO 816.8-CLOUDY QTZ BNDS WITH GRADATIONAL IRREGULAR CTS (VEINS) CONTAINING SPKS 1-2%	
818.1	0.3		QTZ	VEIN-WHITE MASSIVE	
820.0	1.9		QTE	FG-MG-DK GREY-25% CHLORITE BIOTITE WITH LOCAL QTZ RICH ZONES (LIGHT GREY-FG TO MG) WITH GRADATIONAL CTS-LOCAL BIOTITE & CHLORITE BNDS-15 TO 20 CPS	
820.1	0.1		QTE	PEBBLY-AS TO 801.4-15 TO 20 CPS	
820.6	0.5		QTE	FG DK GREY-BIOTITE & CHLORITE SELVAGE LIKE APPEARANCE 15-20% 15 TO 20 CPS	
820.7	0.1		QTE	PEBBLY-AS TO 801.4-15 TO 20 CPS	
822.4	1.7		QTE	FG-LIGHT BROWN-GREY WITH MAFICS 5% LIGHT RUSTY RED ALTERED MICA INTERSTIAL IN QTZ-LOCAL MAFIC BNDS 15 TO 20% BIOTITE CHLORITE WITH GRADATIONAL CTS-SPKS PY 1%-15 TO 20 CPS	
824.6	2.2		QTE	AS TO 820.0-15 TO 20 CPS	
824.9	0.3		QTE	PEBBLY-INDISTINCT ELONGATED QTZ PEBBLES (50%) 0.1 TO 0.5 INCHES LONG-WELL DEVELOPED BIOTITE SELVAGES-15 TO 20 CPS	
829.6	4.7		QTE	FG-MG-DK GREY-MAFICS (20-25%)-CHLORITE & MICA IN STRS SOME SELVAGE LIKE OCCASIONAL QTZ GRIT-LOCAL QTZ RICH ZONES-SPKS PY 1%-WEAKLY FOTD-LOCAL CHLORITE ( ) BANDS (GREEN & FIBROUS) 15 TO 20 CPS	75
830.3	0.7		QTE	MG-CG-MEDIUM GREY-MAFICS 5% AS CHLORITE-OCCASIONAL QTZ GRITS-SOME QTZ TRANSLUCENT-15 TO 20 CPS	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
831.5	1.2		QTE	AS TO 829.6 BUT NUMEROUS CHLORITE MI CA BNDS AT 75-15 TO 20 CPS	75
833.0	1.5		QTE	PEBBLY AS TO 824.9-QTZ PEBBLES DECRE ASING IN SIZE DOWNHOLE-35 TO 40 CPS AT 831.7 & 20 TO 25 CPS AT 832.8	
833.3	0.3		QTE	AS TO 830.3-LOWER CT SHARP AT 45-15 TO 20 CPS	
834.2	0.9		QTE	AS TO 829.6-15 TO 20 CPS	
835.2	1.0		QTE	PEBBLY-AS TO 824.9 BUT PEBBLES INDIS TINCT & UP TO 1 INCH LONG AT 70 DEGR EES-20 TO 25 CPS	
836.5	1.3		QTE	CG-MEDIUM GREY-MAFICS 5-10% (CHLORIT E MICA)-SIMILAR AS TO 830.3-20 TO 25 CPS	
836.6	0.1		QTE	PEBBLY-AS TO 824.9-SPKS PY 1%-25 TO 30 CPS	
837.1	0.5		QTE	AS TO 830.3-30 TO 35 CPS AT 836.7 & 25 TO 30 CPS AT 837.0	
837.3	0.2		QTE	PEBBLY-SIMILAR-AS TO 824.9 QTZ PEBBL ES UP TO 1.2 INCHES LONG AT 70-SPKS PY 2-3%-40 TO 45 CPS	
840.4	3.1		QTE	AS TO 829.6-22 TO 28 CPS	
840.9	0.5		QTE	PEBBLY-SIMILAR AS TO 824.9-SPKS PY LESS THAN 1%-40 TO 45 CPS	
841.1	0.2		QTE	AS TO 829.6-20 TO 25 CPS	
841.4	0.3		QTE	AS TO 830.3	
841.7	0.3		QTE	PEBBLY-AS TO 824.9-SPKS PY 1%-35 TO 65 40 CPS	
842.1	0.4		QTE	AS TO 830.3-15 TO 20 CPS	
843.8	1.7		QTE	AS TO 829.6-15 TO 20 CPS	
845.3	1.5		QTE	AS TO 830.3 BUT MAFIC CONTENT DECREA SING DOWNHOLE (PURE QTE)-LOWER CT SH ARP AT 50	
845.6	0.3		QTE	AS TO 829.6-15 TO 20 CPS	
845.8	0.2		QTE	FG-LIGHT GREY SERICITIC QTZ BNDS(0 .3 INCHES WIDE) WITH PURPLISH PINK INTERLAYERED MORE MAFIC BIOTITE & CH LORITE BNDS AT 60-15 TO 20 CPS	
846.2	0.4		QTE	AS TO 829.6-15 TO 20 CPS	
846.4	0.2		QTE	AS TO 830.3-15 TO 20 CPS	60
849.0	2.6		QTE	AS TO 829.6 BECOMING LESS MAFIC DOWN HOLE 15 TO 20 CPS	
849.2	0.2		QTE	PEBBLY-AS TO 824.9-25 TO 30 CPS	70
849.6	0.4		QTE	AS TO 829.6-20 TO 25 CPS	
850.4	0.8		QTE	PEBBLY-SIMILAR AS TO 829.6 BUT PEBBL ES LESS THAN 0.2 INCHES & LESS DISTI NCT-20 TO 25 CPS	
851.9	1.5		QTE	AS TO 829.6 BECOMING LESS MAFIC DOWN HOLE	
855.1	3.2		QTE	PEBBLY-SIMILAR AS TO 824.9 WITH INDI STINCT QTZ PEBBLES UP TO 0.8 INCHES LONG-SPKS PY 1%-23 TO 28 CPS AT 852 .0-30 TO 35 CPS AT 852.7 & 20 TO 25 CPS AT 855.0	
855.8	0.7		QTE	PEBBLY-AS TO 824.9-25 TO 30 CPS	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
856.4	0.6		QTE	AS TO 829.6-21 TO 25 CPS	
857.3	0.9		QTE	PEBBLY-AS TO 824.9-23 TO 29 CPS	
857.6	0.3		QTE	AS TO 829.6-18 TO 22 CPS	
859.8	2.2		QTE	PEBBLY-AS TO 824.9-SPKS PY 1%-22 TO 60 30 CPS-LOWER CT SHARP AT 55	
860.0	0.2		SKN	DIOPSIDE-CG MEDIUM GREY GREEN-DIOPSIDE-MINOR QTZ CALCITE-SPKS PY 1%	
860.4	0.4		QTE	CG WHITE MASSIVE WITH MINOR DIOPSIDE SKARN BNDS (15-20%)-LOWER CT SHARP	
860.7	0.3		QTZ	VEIN-WHITE MASSIVE-LOWER CT SHARP	
861.0	0.3		QTE	AS TO 860.4-LOWER CT SHARP	
861.3	0.3		QTZ	VEIN-WHITE MASSIVE-LOWER CT SHARP	
861.6	0.3		QTE	AS TO 829.6	
862.4	0.8		SKN	CG-WELL DEVELOPED DIOPSIDE 75% WITH CALCITE-MINOR QTZ-PO PY 4-5% AS SPKS & STRS BETWEEN GRAINS-ONE SPK GALENA LOWER CT SHARP	
865.0	2.6		QTE	PEBBLY (CONGLOMERATIC)-INDISTINCT ELONGATED QTZ PEBBLES 75% (0.2 TO 1$3 INCHES) AT 60 IN FG DK GREY BIOTITE CHLORITE MATRIX WITH SPKS PY 1-2% 30 TO 36 CPS DECREASING TO 24 TO 29 CPS DOWNHOLE	
873.7	8.7		RYDT	PORPHYRITIC-QTZ & FELDSPAR ROUNDED PORPHYRIES (50%) LESS THAN 0.1 INCH LONG ELONGATED AT 60 DEGREES-FG DK GREY MATRIX OF QTZ MICA FELDSPAR-LOCAL PO PY 1% ALONG FOTN PLANES	
875.7	2.0		RYDT	PORPHYRITIC-AS TO 873.7 BUT WITH 10 TO 15% PORPHYRIES AS LOCAL CONCENTRATIONS IN BNDS AT 60	
881.9	6.2		RYDT	AS TO 873.7-879.5 TO 879.6-NON-PORPHYRITIC	
884.0	2.1		RYDT	AS TO 875.7 BUT 5-10% PORPHYRIES-LOWER CT SHARP AT 60	
884.5	0.5		DIA	META-FG MG-AMPHIBOLE RICH-FELDSPAR MINOR MICA & CHLORITE-0.2 INCH ALTERED UPPER CT-WEAKLY MAGNETIC-SPKS PO 1%-884.2-0.05 STRINGER PO	
884.6	0.1		SKN	DIOPSIDE RICH-MINOR CALCITE QTZ-LOWER CT SHARP	
884.8	0.2		DIA	META-AS TO 884.5-SPKS PO 1%	
885.4	0.6		SKN	AS TO 884.6-IRREGULAR CTS	
886.7	1.3		DIA	META-AS TO 884.5-SPKS PO 1%	
888.1	1.4		SKN	AS TO 884.6-IRREGULAR ZONES OF META-DIABASE-CTS IRREGULAR	
889.1	1.0		DIA	META-AS TO 884.5-SPKS PO 1%	
889.2	0.1		SKN	AS TO 884.6	
917.3	28.1		DIA	META-AS TO 884.5 BUT DECREASING PO & CG DOWNHOLE-LOCAL QTZ-CALCITE VEINS-894.7-1.0 INCH CALCITE-QTZ VEIN WITH PY PO 10%-LOWER CT SHARP AT 20	
917.7	0.4		QTZ	VEIN-WHITE MASSIVE-FRACTURED LOWER CT SHARP AT 10	
934.9	17.2		DIA	META-AS TO 884.5 BUT BECOMING FINER	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				GRAINED DOWNHOLE-LOWER CT SHARP AT 60 CEGREES	
936.0	1.1		AMPH	FG-GREEN-AMPHIBOLE RICH-MINOR CHLORI E-FELDSPAR-LOCAL BIOTITE RICH ZONE SIMILAR AS TO 257.9-WELL FOTD-LOWER CT SHARP AT 60	60
936.1	0.1		SKN	AS TO 884.6-LOWER CT SHARP	
936.4	0.3		AMPH	AS TO 936.0-LOWER CT SHARP AT 60	60
940.3	3.9		GWKE	META-MEDIUM GREY (SLIGHTLY GREENISH BROWN) FG-MG-FELDSPAR MICA RICH-MINOR AMPHIBOLE BNDS INTERLAYERED WITH FG-MG DK GREY GREEN BNDS (AMPHIBOLE RICH-FELDSPAR & MICA) WITH SOME INTERFINGERED (DEPOSITIONAL) CTS & WELL FOTD-LOCAL IRREGULAR BNDS DIOPSIDE SKARN & QTZ (MINOR CALCITE) STRS-LOWER CT SHARP 60	60
941.5	1.2		GWKE	META-META-TUFF -FG MG-GREY GREEN-AMPHIBOLE & CHLORITE RICH WITH FELDSPAR QTZ & MICA EYES (UP TO 0.05 INCHES) IN THE PLANES OF WELL DEVELOPED FOTN LOWER CT SHARP AT 50	65
				940.7 TO 941.3-10 TO 15% QTZ & FELDSPAR EYES UP TO 0.08 INCHES IN THE PLANE OF FOTN	
				TS-C-73-3214 @ 941.0' META GWKE	
942.5	1.0		GWKE	META-AS TO 940.3-LOWER CT SHARP	45
943.1	0.6		GWKE	AS TO 941.5 BUT WEAKLY FOTD-MICA FELDSPAR EYES 10-15%-LOWER CT SHARP	70 40
944.1	1.0		GWKE	META-AMPHIBOLITIC-MG-DK GREY GREEN FELDSPAR MICA & AMPHIBOLE-WEAKLY FOTD-MINOR QTZ STRS-LOWER CT IRREGULAR	55
944.5	0.4		SKN	AS TO 884.6	
945.7	1.2		GWKE	META-AS TO 941.5 BUT LIGHTER GREY GREEN (LESS AMPHIBOLE)-LOWER CT AT 50	55
958.1	12.4		GWKE	TREMOLITE ANTHOPHYLLITE MICA SCHIST FG MG LIGHT GREY-QTZ & MICA EYES IN PLANE OF FOTN-LOCAL MINOR QTZ VEINS-UNIT UNIFORM THROUGHOUT	55
				TS-C-73-3215 @ 957.7' META GWKE	
958.5	0.4		SKN	AS TO 884.6-LOWER CT SHARP	
973.8	15.3		GWKE	AS TO 958.1 BECOMING DARKER GREY IN LAST FOOT OF UNIT-LOWER CT SHARP 55	55
975.3	1.5		GWKE	META-AS TO 944.1 GRADING INTO FOLLOWING UNIT	50
975.7	0.4		GWKE	AS TO 958.1-LOWER CT SHARP	50
976.8	1.1		GWKE	META-AS TO 940.3 PLUS LOCAL LIGHT GREY ARKOSIC BNDS-GRADES INTO FOLLOWING UNIT	60
978.3	1.5		GWKE	META-AS TO 944.1	55
978.9	0.6		DIA	META-AS TO 884.5	
979.5	0.6		GWKE	META-AS TO 944.1	
979.6	0.1		DIA	META-AS TO 844.5	
982.3	2.7		GWKE	META-AS TO 944.1-981.0-0.1 INCH CALCITE QTZ STRS WITH PO PY-GRADES INTO	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				FOLLOWING UNIT	
982.9	0.6		GWKE	AS TO 958.1	
983.1	0.2		GWKE	META-AS TO 944.1	
983.3	0.2		AMPH	MG CG DK GREEN-LOWER CT IRREGULAR	
983.6	0.3		SKN	AS TO 884.6	
983.9	0.3		AMPH	AS TO 983.3	
984.2	0.3		SKN	AS TO 884.6	
984.5	0.3		AMPH	AS TO 983.3-(METAGWKE)	
984.6	0.1		GWKE	AS TO 958.1	
985.2	0.6		GWKE	META-AS TO 944.1	
985.3	0.1		MTSD	AS TO 958.1 GRADING INTO FOLLOWING UNIT	
986.0	0.7		GWKE	META-AS TO 944.1	
986.1	0.1		SKN	AS TO 884.6	
987.0	0.9		GWKE	AS TO 944.1-SHARP LOWER CT	55
987.9	0.9		GWKE	AS TO 944.1	
988.4	0.5		GWKE	META-AS TO 941.5-MICA QTZ FELDSPAR EYES 15-20%	70
988.6	0.2		SKN	AS TO 884.6	
991.5	2.9		GWKE	META-AS TO 941.5	
992.6	1.1		GWKE	META-AS TO 940.3-SPKS PY FG 1%	80
993.8	1.2		GWKE	AS TO 944.1	
995.2	1.4		DIA	META-AS TO 884.5	
995.8	0.6		GWKE	META-AS TO 944.1	
1001.8	6.0		DIA	META-AS TO 884.5 BUT FG (POSSIBLE METAGWKE SECTIONS-BIOTITIC)-MINOR DISPLACEMENT OF SEVERAL QTZ VEINS-SPKS PY 1%	
1002.8	1.0		GWKE	META-AS TO 940.3-LOCAL BNDS WITH GRADATIONAL CTS AS TO 958.1 1002.3-1002.4-WHITE MASSIVE QTZ VEIN	
1008.0	5.2		DIA	META-AS TO 1001.8-SPKS PO 1%-WEAKLY MAGNETIC	
1009.4	1.4		GWKE	META-AS TO 940.3 BUT WITH NUMEROUS MG BIOTITE RICH BNDS	
1009.9	0.5		DIA	META-AS TO 1001.8	
1010.9	1.0		GWKE	META-AS TO 940.3-LOWER CT SHARP	
1015.1	4.2		QTZ	VEIN-WHITE MASSIVE CRYSTALLINE QTZ WITH WALLROCK INCLUSIONS 15-20%	
1017.1	2.0		AMPH	GREEN FG BECOMING COARSER GRAINED DOWNHOLE-AMPHIBOLE RICH-NUMEROUS QTZ VEIN INTRUSIONS DECREASING DOWNHOLE	
1017.2	0.1		GWKE	META-AS TO 940.3	
1018.1	0.9		VOLC	AND-BST-AS TO 358.8-LOWER CT SHARP AT 90	
1020.2	2.1		GWKE	META-AS TO 944.1-LOCAL BND DIOPSIDE SKARN	
1027.8	7.6		DIA	META-AS TO 844.5 BECOMING COARSER GRAINED DOWNHOLE	
1028.1	0.3		SKN	AS TO 884.6	
1031.6	3.5		DIA	META-AS TO 884.5 BECOMING FINER GRAINED DOWNHOLE	
1032.0	0.4		SKN	AS TO 884.6	
1032.8	0.8		GWKE	META-AS TO 944.1 BECOMING FINER GRAINED DOWNHOLE	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
1032.9	0.1		QTE	PEBBLY-FG-MEDIUM GREY-INDISTINCT ELC NGATED QTZ PEBBLES (60%) 0.2 TO 1.0 INCHES-FG DK GREY BIOTITE QTZ CHLORI TE MATRIX-SPKS PY 1%-15 TO 20 CPS	
1033.0	0.1		GWKE	META-AS TO 944.1-LOWER CT SHARP AT 70-15 TO 20 CPS	
1033.6	0.6		QTE	PEBBLY-MEDIUM GREY INDISTINCT ELONGA TED QTZ PEBBLES (25%) 0.2 TO 0.9 INC HES LONG-FG DK GREY QTZ BICTITE CHLO RITE MATRIX-MAFICS 20-25% CCCASIONAL BIOTITE SELVAGES & QTZ GRITS-SPKS PY 1%-15 TO 20 CPS	
1033.8	0.2		QTE	MG-LIGHT GREY WITH MAFICS 5-10%-15 TO 20 CPS	60
1036.3	2.5		QTE	PEBBLY-ELONGATED INDISTINCT QTZ PEBB LES (40-50%) UP TO 0.8 INCHES LONG IN A FG BROWN-GREY TREMOLITE & CHLOR ITE RICH QTZ MATRIX-MAFICS 10-15% 15 TO 20 CPS	
1036.5	0.2		QTE	PEBBLY-AS TO 1033.6-15 TO 20 CPS	
1036.7	0.2		SKN	AS TO 884.6	
1039.4	2.7		QTE	PEBBLY-AS TO 1036.3-22 TO 27 CPS	
1041.2	1.8		QTE	PEBBLY-AS TO 1033.6-SEVERAL DISTINCT QTZ PEBBLES AT START OF UNIT UP TO 1 .3 INCHES DECREASING IN SIZE & DENSI TY DOWNHOLE-15 TO 20 CPS	60
1045.5	4.3		QTE	PEBBLY-SERICITIC-PEBBLES AS TO 1036. 3-MAFICS (SERICITE RICH WITH MINOR CHLORITE & BIOTITE) 5-10% INCREASING TO 15-20% DOWNHOLE-LOWER CT SHARP AT 60-22 TO 27 CPS AT 1042.9 & 31 TO 38 CPS AT 1043.6	
1046.9	1.4		GWKE	META-AS TO 941.5 BUT NO QTZ & FELDSP AR EYES-LOWER CT SHARP	80
1047.6	0.7		QTE	PEBBLY-AS TO 1045.5-15 TO 20 CPS	
1048.1	0.5		QTZ	VEIN-WHITE MASSIVE	
1048.9	0.8		QTE	MG MEDIUM GREY-BIOTITE & MINOR CHLOR ITE 5%-15 TO 20 CPS	
1051.2	2.3		QTE	AS TO 1045.5-15 TO 20 CPS	
1052.3	1.1		RYDT	PORPHYRITIC-SIMILAR AS TO 875.7 BUT PORPHYRIES 1-2%-SPKS PY 1%	70
1066.4	14.1		RYDT	PORPHYRITIC-AS TO 873.7-PORPHYRIES INCREASE IN SIZE DOWNHOLE UP TO 0.2 INCHES-SPKS PY 1-2%-1 INCH QTZ VEIN AT 1065.4 TS-C-73-3216 @ 1060.5 META ARK	70
1068.5	2.1		RYDT	PORPHYRITIC-AS TO 875.7	
1074.3	5.8		GWKE	META-META TUFF( )-AS TO 941.5	75
1076.1	1.8		QTE	FG-MG-MEDIUM GREY-BIOTITE & CHLORITE 15-20%-LOCAL SERICITIC ZONE & QTZ RI CH ZONES-WEAKLY FOTD-LOWER CT SHARP AT 70 DEGREES	70
1077.2	1.1		GWKE	META-FG DK GREEN-AMPHIBOLE RICH FELD SPAR-MICACEOUS FOTN PLANES-WELL FOTD SPKS PY 1-2% ALONG FOTN PLANES	70

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
1079.8	2.6		ARK	META-MICACEOUS-FG-MEDIUM GREY BROWN QTZ FELDSPAR MICA RICH-4 TC 5% CALCITE-SPKS PY 1%-LOWER CT SHARP AT 70	70
1084.0	4.2		GWKE	META-MG CG-DK GREEN-AMPH RICH-QTZ FELDSPAR WITH ZONES OF CG MICA EYES TO 0.2 INCHES LONG-LOCAL QTZ VEINS-SPKS PY 1%	70
1085.2	1.2		DIA	META-AS TO 884.5 BECOMING CG DOWNHOLE-LOWER CT SHARP AT 80	
1085.4	0.2		GWKE	META-AS TO 1084.0	
1088.2	2.8		DIA	META-AS TO 884.5 BUT CG-LOCAL METAGWKE BANDS	
1088.4	0.2		SKN	AS TO 884.6	
1089.5	1.1		DIA	META-AS TO 884.5 BUT CG-LOWER CT SHARP AT 75	
1094.2	4.7		QTE	FELDSPATHIC-FG DK GREY QTZ FELDSPAR-15-20% & 5% CHLORITE-1091.C TO 1093.2 TREMOLITE & ANTHOPHYLLITE 10-15%	
1094.7	0.5		QTE	PEBBLY-SIMILAR AS TO 1033.6	
1095.3	0.6		QTE	SERICITIC-FG MEDIUM GREY-SERICITE & MICA 15-20%	70
1095.5	0.2		QTE	PEBBLY-SIMILAR AS TO 1033.6	70
1095.8	0.3		QTE	AS TO 1094.2	
1096.4	0.6		QTE	PEBBLY-ELONGATED INDISTINCT QTZ PEBBLES (25%) 0.1 TO 0.2 INCHES-FG CHLORITE BIOTITE MATRIX-MAFICS 15-20% 15 TO 20 CPS	
1096.7	0.3		QTE	PEBBLY-AS TO 1096.4 BUT PEBBLES 0.2 TO 0.6 INCHES (50%) AT 70-15-20 CPS	
1097.1	0.4		QTE	AS TO 1095.3	
1097.7	0.6		QTE	PEBBLY-AS TO 1096.7-PEBBLES 25% AT 70 DEGREES	
1100.1	2.4		QTE	SIMILAR AS TO 1045.5 BUT PEBBLES 25% 0.2 TO 0.8 INCHES-15 TO 20 CPS	60
1105.2	5.1	MVVW	GWKE	META-AS TO 944.1-LOWER CT SHARP AT 70-SPKS PY 1%	70
1111.5	6.3	MVW	QTE	FELDSPATHIC (POSSIBLE RHYOLITE VOLCANIC)-FG-LIGHT BUFF GREY-MAFICS 1-2% (MICA)-SPKS & BLEBS PY 2-3%-WEAKLY FOTC TS-C-73-3217 @ 1110.2' META ARK	70
1111.8	0.3		QTZ	VEIN-CG VITREOUS-SPKS PY 1%-SHARP CONTACTS	
1113.8	2.0	MVW	QTE	AS TO 1111.5 BECOMING DARKER GREY DOWNHOLE (MICA CHLORITE 2-3%)-SPKS PY 2-3%	
1114.1	0.3		QTZ	VEIN-AS TO 1111.8	
1114.6	0.5	MVW	QTE	AS TO 1111.5 BUT DARKER GREY-MICA CHLORITE 2-3%-SPKS PY 4-5%	
1114.8	0.2		QTZ	VEIN-AS TO 1111.8	
1115.2	0.4	MVW	QTE	AS TO 1114.6 SPKS PY 2-3%	
1115.7	0.5		QTZ	VEIN-AS TO 1111.8	
1119.2	3.5	MVW	QTE	AS TO 1114.6-SPKS PY 4-5%	
1119.3	0.1		QTZ	VEIN-AS TO 1111.8	
1121.1	1.8	MVW	QTE	AS TO 1114.6-SPKS PY 4-5%	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
1121.3	0.2		QTZ	VEIN-AS TO 1111.8	
1126.0	4.7	MVW	QTE	AS TO 1111.5-SPKS PY 2-3%	
1126.6	0.6		QTZ	VEIN-AS TO 1111.8	
1132.8	6.2	MVW	QTE	AS TO 1111.5-LOCAL QTZ RICH ZONES BE COMING LIGHTER GREY DOWNHOLE-LOWER CT SHARP-SPKS PY 2-3%	
1133.4	0.6	MVVw	GWKE	META-FG-DK BROWN GREEN-75% BIOTITE BNDS-AMPH QTZ FELDSPAR BNDS (INTERLA YERED)-STRONGLY FOTD-SPKS PY 1%	80
1135.1	1.7	MVVW	QTE	FG DK GREY-CHLORITE MICA BNDS 25% QT Z RICH BNDS AT 65-LOWER CT SHARP AT 40-SPKS PY 1%	
1135.3	0.2	MVVw	GWKE	META-FG MG-DK GREEN BLACK WITH 75% MICA-AMPH FELDSPAR-LOWER CT SHARP AT 55-SPKS PY 1%	
1136.1	0.8	MVVw	QTE	AS TO 1135.1-LOWER CT SHARP AT 65-SP KS PY 1%	70
1136.7	0.6		ARK	META-AS TO 1079.8 WITH LOCAL MICACEO US QTE BNDS 0.5 INCHES WIDE	70
1136.9	0.2		QTZ	VEIN-AS TO 1111.8 BUT WITH MAFIC BND INCLUSIONS-CONTACTS SHARP	
1137.3	0.4		ARK	META-AS TO 1079.8	70
1137.6	0.3		GWKE	META-AS TO 1133.4 BUT BIOTITE BNDS ONLY 35-40%	65
1138.2	0.6		QTE	MICACEOUS-FELDSPATHIC-FG-MEDIUM GREY 1137.9-0.2 INCH BND BIOTITE AT 65 SPKS PY 1%-LOWER CT IRREGULAR	65
1140.6	2.4		ARK	META-AS TO 1179.8 WITH LOCAL MICACEO US QTE BNDS 0.1 TO 2.0 INCHES WIDE FOTD 80 AT 1138.3 65 AT 1139.8 PY AS SPKS & STRS ALONG FOTN PLANES 1-2% LOWER CT SHARP AT 65 1138.7-SEDIMENTARY SLUMPING	
1147.5	6.9		QTE	MG-MEDIUM GREY WITH CHLORITE MICA ST RS SELVAGE LIKE 15-20% OCCASIONAL QT Z GRIT-WEAKLY FOTD-SPKS PY 1%-LOWER CT SHARP-1145.5 TO 1146.9-SERICITE & CHLORITE RICH FOTN PLANES	65
1165.7	18.2		DIA	META AS TO 884.5 BECOMING COARSER GR AINED TO 1156.1 & FINER GRAINED TO BOTTOM OF UNIT-CTS FOTD AT 55	
1169.8	4.1		MTSD	TREMOLITE ACTINOLITE CHLORITE SCHIST MG BECOMING FG DOWNHOLE-PALE GREEN WELL FOTD-MINOR QUARTZO-FELDSPATHIC EYES ELONGATED IN PLANE OF FOTN-LOCA L QTZ STRS-LOWER CT SHARP AT 65	65
1170.5	0.7		QTE	MICACEOUS-FG-LIGHT GREY-MINOR CHLORI TE-LOWER CT SHARP AT 65	
1175.0	4.5		MTSD	AS TO 1169.8 FOOT OF HOLE	65
				TS-C-73-3218 @ 1171.8' META GWKE SPECTROMETER READING WITH SCINTREX GIS-3 NUMBER 905 107 THIN SECTIONS AT 17.2 27.3 55.2 58.0 68.8 79.5 81.1 306.3 346.0 355.5 398.4 430.8 714.1 723.3	

DEPTH	LENGTH	MNZN ROCK	DESCRIPTION	ANG
941.0	957.7	1060.5	1110.2	1171.8

BOREHOLE RECORD

DATE PROCESSED APR 01,1974

CHK'D.....

BOREHOLE#	PROPERTY	NTS#	SH#	ANOM#	DEPTH	AZIMUTH	DIP	LATITUDE	DEPARTURE	ELEVATION	LEVEL
55321-0	SAKAMI PROJECT	33F 2W			209	180 00	-50 00	S 3120	E 00		DATE.....

INCLINATION AND TROPARI TESTS

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP

TOPS OF WEDGES

LOGGED BY..DEBICKI E J STARTED..JUNE 28,1973 COMPLETED..JULY 02,1973

COMMENTS

DRILLED CANICC WINKIE-T WAKEGIJIG-E CORE-PERMIT 548-20
NE 3-20 FT EW CSG & CSG SHOE #173 LEFT IN HOLE

SAMPLE ENTRIES

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
0.0	0.0			COLLAR	
20.0	20.0			OVERBURDEN-SAND & BOULDERS-20 FT EW CSG-START OF CORE	
40.8	20.8		DIA	META-AMPHIBOLITIC-FG TO MG-DK GREY GREEN-AMPHIBOLE RICH-FELDSPAR-SPKS PY 1%-CUT BY NUMEROUS SMALL QTZ STRINGERS-LOWER CT SHARP AT 45	45
				36-0-1 INCH DIOPSIDE SKARN BAND	
41.5	0.7		GWKE	META-FG DARK-GREY GREEN-AMPHIBOLE RICH-FELDSPAR BANDS INTERLAYERED WITH FG BROWN GREY BIOTITE RICH-AMPHIBOLE CHLORITE BANDS AND LIGHT GREY QTZ FELDSPAR BANDS-STRONGLY FOTD-SPKS PY 1%	45
43.5	2.0		DIA	META-AS TO 40.8 BECOMING FINER GRAINED DOWNHOLE-SPKS PY 1%	
47.0	3.5		DIA	META-AS TO 40.8-SPKS PY 1%	45
48.1	1.1		GWKE	META-AS TO 41.5 WITH SEVERAL QTZ VEINS LESS THAN 0.5 INCHES WIDE PARALLEL TO FOTN	45
64.8	16.7		DIA	META-AS TO 40.8-SPKS PY 1% FOTD BECOMING MASSIVE DOWNHOLE-MINOR BIOTITE 48.1 TO 51.0-LOWER CT SHARP BUT IRREGULAR-50.3-1 INCH DIOPSIDE SKARN	45
65.0	0.2		QTZ	VEIN-CG-MASSIVE-CRYSTALLINE-VITREOUS	
66.2	1.2		QTE	MICACEOUS-MG-LIGHT GREY-GRANULAR-35 TO 40% QTZ VEINING	
71.6	5.4		QTZ	VEIN-AS TO 65.0 WITH 25% INCLUSIONS (100%) BIOTITE-LOWER CT SHARP	
73.7	2.1		DIA	META-(POSSIBLE METAGWKE)-AS TO 40.8 BUT 50% BIOTITE CONTENT DECREASING INTO FOLLOWING UNIT	
80.1	6.4		DIA	META-AS TO 40.8 BECOMING FINER GRAINED DOWNHOLE-MASSIVE-BIOTITE 5% LOWER CT SHARP 50	
82.0	1.9		VOLC	ANDESITE-BASALT-FG-DK GREY GREEN-AMPHIBOLE-FELDSPAR-CHLORITE & MICA-SPKS PY 1%-LOWER CT SHARP AT 60	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
82.5	0.5		GWKE	META-AS TO 41.5 LOWER CT SHARP AT 75 LOCAL CALCITE VEINS	60
85.7	3.2		RDCT	PORPHYRITIC-CLOTS OF IRREGULAR WHITE QTZ FELDSPAR (90%) DECREASING IN SIZE & AMOUNT TO 50% DOWNHOLE-FG DK GREY BIOTITE QTZ MATRIX-SPKS PY 1% LOWER CT SHARP AT 30-59.3-1 INCH QTZ VEIN (WHITE MASSIVE)	
88.7	3.0		GWKE	META-MG CG-AMPHIBOLITIC-DK GREY GREEN-INTERLAYERED AMPHIBOLE RICH-FELDSPAR BANDS (METADIABASE) GRADING INTO & IN SHARP CONTACT WITH AMPHIBOLE FELDSPAR BIOTITE RICH (UP TO 75%) BNDS STRONGLY FOTD-LOWER CT SHARP	65
94.2	5.5		GWKE	META-(MTSD)-FG-GREY GREEN-UNIFORM THROUGHOUT-MASSIVE-AMPHIBOLE 35-40% FELDSPAR 40% & SMALL MICA SPKS-SPKS PY 1%-LOWER CT SHARP	
				TS-C-73-3221 @ 91.8' META GWKE	
102.1	7.9		GWKE	META-AS TO 88.7 BUT CG BIOTITIC CLOTS THROUGHOUT UP TO 50% STRONGLY FOTD SPKS & CLOTS PY-MINOR CP 1% LOCAL DIOPSIDE SKARN BNDS	50
102.6	0.5		SKN	DIOPSIDE CALCITE & QTZ-CG-GREEN	
106.0	3.4		GWKE	META-AS TO 102.1-LOWER CT SHARP	55 55
118.6	12.6		QTE	FELDSPATHIC (10-15%)-MICACEOUS (15-20%)-FG MEDIUM GREY-UNIFORM THROUGHOUT-WEAKLY FOTD-SPKS PY 1%	55
121.0	2.4		GWKE	META-AS TO 102.1-CG	55
135.0	14.0		DIA	META-AS TO 40.8 BUT CG-LOWER CT IRREGULAR-SPKS PY 1%	
140.3	5.3	MVVW	ARK	META-FG DK GREY (VOLCANIC APPEARANCE) WITH 25-30% ZONES OF ACID VOLCANIC (RHYOLITE-RHYODACITE) LIGHT BUFF GREY FG IN IRREGULAR CLOTS MASSES & BANDS (GRADATIONAL CTS)-APPEARS ADMIXED WITH ARKOSIC ZONES-CUBES MT 1%-SPKS PY 1%	
				TS-C-73-3222 @ 135.6' PRPC RHY	
				TS-C-73-3223 @ 141.0' META ARK	
141.5	1.2	MVW	VOLC	RHYOLITE TORHYODACITE SLIGHTLY PORPHYRITIC-ZONES OF ADMIXED ARKOSIC MATERIAL-FG DK GREY BUFF-LOCAL GARNETS MT 1%-SPKS PY & NON-MAGNETIC PO 1-2%	
143.0	1.5	MVW	VOLC	AS TO 141.5-SPKS PY PO 2-3%	
144.5	1.5	MVW	VOLC	AS TO 141.5-SPKS PY PO 4-5%	
146.2	1.7	MVW	VOLC	AS TO 141.5-SPKS PY PO 2-3% LOWER CT SHARP BUT ANGLE LOST DUE TO BROKEN CORE	
147.2	1.0	MVW	ARK	META-AS TO 140.3-10 TO 15% ACID VOLCANIC MATERIAL-SPKS PY 1-2% LOWER CT SHARP BUT IRREGULAR	
147.7	0.5	MVW	GWKE	META-CG-DK GREEN BLACK-AMPHIBOLITIC AMPHIBOLE BIOTITE-40-50% FELDSPAR-LOWER CT SHARP AT 70-SPKS PY 1-2%	65

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
152.1	4.4	MVW	VOLC	AS TO 141.5 WITH ARKOSIC MATERIAL IN CREASING IN CONTENT DOWNHOLE-FLOW TY PE CONTACTS AT 65 WITH SOME SLUMPING BETWEEN ARKOSIC & VOLCANIC ZONES-LOC AL BANDS OF LIGHTER FELDSPAR RICH VO LCANIC MATERIAL-WEAKLY FOTO-SPKS PY 1-2%-150.1 TO 152.1-MT 1%	65
157.1	5.0	MVVW	ARK	META-AS TO 140.3-SPKS 1% MT 1%	
191.0	33.9		ARK	META-AS TO 140.3 BUT VOLCANIC MATERI AL BECOMING PINK BUFF GREY DOWNHOLE-LOCAL SMALL GARNETS-WEAKLY FOTO-OCCA SIONAL SPKS PY-MT 1%-LOWER CT SHARP BUT IRREGULAR TS-C-73-3224 @ 178.5' RECRYSTALLIZED RHY	55
193.1	2.1		GWKE	META-AS TO 102.1 BUT BIOTITE CONTENT DECREASING DOWNHOLE-LOWER CT SHARP-L OCAL BAND DIOPSIDE SKARN-SPKS PY 1%	55
196.9	3.8		DIA	META-AS TO 40.8-FG BECOMING CG DOWNH OLE-LOCAL BND DIOPSIDE SKARN-LOWER CT IRREGULAR (DEPOSITIONAL)	
198.1	1.2		ARK	META-FG MEDIUM GREY-5-10% MICA-SPKS PY 1% LOWER CT IRREGULAR	
200.3	2.2		GWKE	META-AS TO 88.7	55
209.0	8.7		DIA	META-AS TO 40.3-OCCASIONAL SPKS PY -WEAKLY FOTO FOOT OF HOLE THIN SECTIONS AT 91.8 135.6 141.0 178.5 IP ANOMALY EXPLANATION 135.0 TO 157.1-PY PO UP TO 4-5% MT 1% 157.1 TO 191.0-MT 1% SPKS PY 1% SPKS PY 1% THROUGHOUT MOST OF HOLE	55

BOREHOLE RECORD
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DATE PROCESSED APR 01,1974

CHK'D.....

BOREHOLE#	PROPERTY	NTS#	SH#	ANOM#	DEPTH	AZIMUTH	DIP	LATITUDE	DEPARTURE	ELEVATION	LEVEL
55320-0	SAKAMI PROJECT	33F 2W			35	180 00	-45 00	S 3120	E 00		

DATE.....

INCLINATION AND TROPARI TESTS

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP

TOPS OF WEDGES

LOGGED BY..DEBICKI E J STARTED..JUNE 25,1973 COMPLETED..JUNE 25,1973

COMMENTS

DRILLED CANICO WINKIE-T WAKECIJIG-E CORE-PERMIT 548 20 NE 3-5 FT EW CSG & CSG SHOE #172 LEFT IN HOLE

SAMPLE ENTRIES

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
0.0	0.0			COLLAR	
20.0	20.0			OVERBURDEN-SAND & BOULDERS-21 FEET EW CSG (ONE FOOT ABOVE GROUND LEVEL) START OF CORE	
31.3	11.3		DIA	META-MG TO CG-GREY GREEN-AMPHIBOLE RICH-FELDSPAR-WEAKLY FOTD-SPKS PY 1% 23.0-24.0-1.0 FOOT ZONE METAGWKE WIT H SHARP CTS-LOWER CT LOST DUE TO BRO KEN CORE	40
35.0	3.7		QTE	FELDSPATHIC-GRITTY (BUFF COLOUR-FG TO MG WITH TREMOLITE) IN SHARP SLIGH TLY FRAGMENTED CT AT 0 DEGREES WITH CHLORITIC ARKOSE (FG TO MG-LIGHT GRE Y GREEN)	
				31.3 TO 35.0-BROKEN CORE	
				FOOT OF HOLE ABANDONED-DRILLED THROUGH CASING	

BOREHOLE RECORD
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DATE PROCESSED APR 01,1974

CHK'D.....

BOREHOLE#	PROPERTY	NTS#	SH#	ANOM#	DEPTH	AZIMUTH	DIP	LATITUDE	DEPARTURE	ELEVATION	LEVEL
55319-0	SAKAMI PROJECT	33F 2W			15	180 00	-45 00	S 3120	E 00		DATE.....

INCLINATION AND TROPARI TESTS

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP

TOPS OF WEDGES

COMMENTS

LOGGED BY..DEBICKI E J STARTED..JUNE 23,1973 COMPLETED..JUNE 25,1973 DRILLED CANICC WINKIE-T WAKEGIJIG-E CORE-PERMIT 548 ZC
NE 3-15 FT EW CSG & CSG SHOE #171 LEFT IN HOLE

SAMPLE ENTRIES

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
0.0	0.0			COLLAR	
15.0	15.0			OVERBURDEN-SAND & BOULDERS-HOLE ABAN DONED-BROKEN CSG- FOOT OF HOLE	

BOREHOLE RECORD
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DATE PROCESSED APR 01,1974

CHK'D.....

BOREHOLE#	PROPERTY	NTS#	SH#	ANOM#	DEPTH	AZIMUTH	DIP	LATITUDE	DEPARTURE	ELEVATION	LEVEL
55318-0	SAKAMI LAKE	33F 2W			719	180 00	-45 00	N 24C	W 9200		DATE.....

INCLINATION AND TROPARI TESTS

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP
100		-40 30	200		-33 00	300		-27 30	400		-26 30	500		-23 45
600		-33 00												

TOPS OF WEDGES

LOGGED BY	STARTED	COMPLETED	COMMENTS
DEBICKI E J	JUNE 20,1973	JULY 03,1973	DRILLED INSPIRATION BBS-I-AQ CORE-PERMIT 547-ZONE 3 ALL CASING 10 FEET AW LEFT IN HOLE

SAMPLE ENTRIES

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
0.0	0.0			COLLAR-BEDROCK SETUP	
10.0	10.0			CASING-10.0 FEET AW-START OF CORE	
96.2	86.2		MTSD	HIGHLY METAMORPHOSED SEDIMENTS-AMPHIBOLITE & BIOTITE SCHIST-LAMINATION SIZE TO 5 INCH WIDE UNITS CONSISTING OF META-ARKOSE-META-ARGILLITE 60% FG GREY BROWN-TREMOLITE ANTHOPHYLLITE-25 TO 30% BIOTITE-40 TO 50% FELDSPAR & QTZ-CHLORITE WITH LIGHTER GREY LESS BIOTITIC BNADS--META-GWKE 40% INCREASING TO 75% DOWNHOLE-FG TO MG-GREY GREEN-GREEN BROWN-PALE GREEN WITH VARYING AMOUNTS MAINLY AMPH PLUS BIOTITE QTZ FELDSPAR CHLORITE-NUMEROUS AMPHIBOLITIC BNDS FG TO CG (FIBROUS) & CG BIOTITE AMPH RICH ZONES (DK GREY GREEN)-CONTACTS SHARP TO GRADATIONAL WITH SEDIMENTARY INTERFINGERING SLUMPING & X-BEDDING-STRONGLY FOTD 35 AT 13.0-45 AT 18.0-35 AT 21.0-20 AT 22.5-25 AT 23.8-40 AT 25.6-35 AT 27.3-30 AT 31.5-40 AT 42.0-30 AT 53.0-60 AT 56.5-20 AT 62.0-40 AT 71.0-40 AT 82.0-50 AT 89.0-LOCAL DIOPSIDE SKARN BNDS (DIOPSIDE CALCITE QTZ-CG-GREEN)-LOCAL ZONES SPKS PY 1%	
101.2	5.0	MVVw	MTSD	AS TO 96.2 SPKS PY 1%	50
104.3	3.1	MVW	MTSD	METAGWKE ZONE AS TO 96-1-HIGHLY AMPHIBOLITIC-DK GREEN BLACK-PO PY SPKS & CLOTS 4-5%-WEAKLY MAGNETIC	
109.3	5.0	MVVw	MTSD	AS TO 96.2-SPKS PY PO 1%	
117.1	7.8		MTSD	AS TO 96.2-HIGHLY METAMORPHOSED AMPHIBOLITE EQUIVALENTS OF METAGWKES-VARIOUS SHADES GREEN-LOWER CT SHARP AT 50-SPKS PY 1%	50
150.8	33.7		MTSD	AS TO 96.2 BUT GARNETIFERCUS UP TO 0.5 INCHES-(LOCAL ZONES GARNETS UP	50

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				TO 75%)	
155.8	5.0	MVVW	MTSD	AS TO 150.8-SPKS PY PO 1%	50
157.3	1.5	MVW	MTSD	AS TO 104.3 BUT GARNETIFEROUS-CLOTS & SPKS PY PO 4-5%-WEAKLY MAGNETIC	
158.7	1.4	MVW	MTSD	AS TO 104.3 NO GARNETS-WEAKLY MAGNETIC-SPKS & CLOTS PY PO 4-5%	
163.7	5.0	MVVW	MTSD	AS TO 96.2-SPKS PY PO 1%	50
169.0	5.3		MTSD	AS TO 96.2	50
179.4	10.4		DIA	META-FG AT CTS BECOMIN MG AT CENTRE OF UNIT-AMPHIBOLITIC-DK GREEN-WEAKLY FOTC-SPKS PY 1%	50
190.9	11.5		MTSD	AS TO 96.2-GRADES INTO FOLLOWING UNIT-182.5 TO 189.7-CG PALE GREEN AMPHIBOLITE(ACTINOLITE RICH-UM) TS-C-73-3219 @ 186.7' META UM	50
192.2	1.3		MTSD	TRANSITION ZONE-POSSIBLE REGOLITH-GREY GREEN-MAFICS 60% (AMPH-CHLORITE-MICA) DECREASING TO 30-40% DOWNHOLE-QTZ-MINOR FELDSPAR-QTZ GRITS-LOCAL GARNETS (0.3 INCH)-IRREGULAR QTZ MASSES (FRACTURED)-THIS UNIT IS PROBABLE CONTACT BETWEEN BASEMENT & SEDIMENTARY BASIN (DOWNHOLE)-LOWER CT SHARP	
192.7	0.5		QTE	PEBBLY -ELONGATED QTZ PEBBLES 30 TO 40% (0.2 TO 1.0 INCHES) AT 65 IN FG DK GREY GREEN MATRIX-FG BIOTITE CHLORITE FELDSPAR QTZ-BIOTITE & CHLORITE SELVAGES-LOCAL GARNETS 10-2 INCHES) LOWER CT SHARP-14 TO 18 CPS	65
196.0	3.3	MVVW	QTE	FG-DK GREY-LOCAL QTZ GRITS-MAFICS 15 TO 20% DECREASING DOWNHOLE (BIOTITE CHLORITE-MINOR AMPH) BETWEEN GRAINS & AS SMALL PARALLEL STRS-WEAKLY FOTD LOWER CT SHARP-SPKS PY 1%	
197.7	1.7	MVVW	QTE	AS TO 196.0-SPKS PY 1%	
204.6	6.9	MVW	QTE	FG-DK GREY-QTZ GRITS-STRONGLY FOTD WITH CHLORITE-MICA-MINOR AMPHIBOLE PLANES AT 55-LOCAL SMALL GARNETS-LOWER CT SHARP AT 55-SPKS & STRS PO PY 3-4% ALONG FOTN PLANES	55
209.6	5.0	MVVW	ARK	META-META RHYOLITE-FG DK GREY MINOR MICA CHLORITE WITH 5-10% YELLOW BUFF GREY-FG RHYOLITIC VOLCANIC MATERIAL AS INTERLAYERED BNDS 0.05 TO 2.0 INCHES-SPKS PY 1%-MT 1%	
213.7	4.1	MVW	ARK	META-META RHYOLITE-AS TO 209.6-SPKS PY 1%-MT 1%-WEAKY FOTD 212.5-0.1 INCH ZONE OF GALENA & PY	55
214.2	0.5	MVVW	GWKE	META-CG-GREY GREEN-AMPHIBOLE RICH BANDS-CHLORITE & MICA 50%-LOWER CT SHARP-STRONGLY FOTD-SPKS PY 1% 213.9-0.3 INCH ELONGATED QTZ PEBBLE	55
214.5	0.3	MVVW	ARK	META-META RHYOLITE-AS TO 209.6-SPKS PY 1%-LOWER CT SHARP	
214.9	0.4	MVVW	GWKE	META-AS TO 214.2-SPKS PY 1%	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
221.8	6.9	MVW	ARK	META-WITH 15-20% COARSER GRAINED MET AGWKE BNDS-FG TO MG-GREY GREEN-TREMO LITE ACTINOLITE NEEDLES-MICA QTZ FEL DSPAR-LOWER CT SHARP AT 55-SPKS & ST RS PY PO 2-3%	
223.6	1.8	MVVW	QTZ	VEIN WITH INCREASING MAFIC INCLUSION CONTENT DOWNHOLE-SPKS PY 1%	
225.1	1.5	MVVW	QTE	AS TO 192.2-SPKS PY 1%	
225.2	0.1		QTE	PEBBLY-AS TO 192.7-CTS SHARP AT 40 14 TO 21 CPS	
225.5	0.3		QTE	AS TO 196.0-PO PY ALONG SHARP LOWER CONTACT	
226.3	0.8		QTE	AS TO 196.0 BUT WITH 50% QTZ VEINING SPKS PY 1%	
226.5	0.2		QTE	PEBBLY-AS TO 192-7-QTZ PEBBLES 60% 0.4 TO 1.0 INCHES AT 60 DEGREES-NO GARNETS-SPKS PY 1%	
228.0	1.5		QTE	AS TO 196.0 WITH QTZ RICH ZONES-SPKS PY 1%	
228.3	0.3		QTZ	VEIN-WHITE-MASSIVE-10% INCLUSIONS-SH ARP CTS-SPKS PY 1%	
230.6	2.3	MVVW	QTE	FG DK GREY-MAFICS 15-20% (BIOTITE & CHLORITE) MAINLY AS SMALL INTERLAYER S BETWEEN QTZ RICH BNDS-STRONGLY FOT D-LOWER CT SHARP AT 60-SPKS PY PO .1 % ALONG FOTN PLANES	60
231.6	1.0	MVVW	QTE	MG-CG-LIGHT GREY-MAFICS 5-10% (CHLOR ITE-MINOR MICA) AS SMALL IRREGULAR STRS-SPKS PY 1%	
232.0	0.4	MVVW	QTE	FG-DEEP-REDDISH BROWN-MAFICS 50-60% (CHLORITE & ALTERED MICA)-STRONGLY FOTD-SPKS PY 1%	70
233.7	1.7	MVVW	QTE	AS TO 196.0-SPKS PY 1%	
234.1	0.4	MVVW	QTE	AS TO 232.0 BUT MAFICS 40-50% (MAINL Y CHLORITE)-SPKS PY 1%	60
237.2	3.1	MVW	QTE	AS TO 231.6-LOCAL DIOPSIDE SKARN-SPK S & CLOTS PY 2-3%-PO 1% DECREASING DOWNHOLE	
238.5	1.3	MVW	QTE	AS TO 231.6-PY 2-3%-PO 1-2%-GALENA 3-4%-SPHALERITE 2-3%	
243.5	5.0	MVVW	QTE	AS TO 231.6-SPKS PY 1%	
249.4	5.9		QTE	AS 231.6-OCCASIONAL SPK PY	
250.0	0.6		GWKE	META-MG-GREY-BROWN-BIOTITE RICH-FELD SPAR AMPHIBOLE CHLORITE & QTZ	
250.3	0.3		QTE	AS TO 231.6-SHARP CTS	
250.4	0.1		GWKE	META-FG MG GREEN-AMPHIBOLE & FELDSPAR-PY 7-8%-PO 1-2%-WEAKLY MAGNETIC	
250.6	0.2		QTE	AS TO 231.6-SHARP CTS	
254.9	4.3		GWKE	META-FG-TREMOLITE ACTINOLITE GRADING INTO TREMOLITE ANTHOPHYLLITE CONHOL E-MICACEOUS-QTZ-FELDSPAR-LOCAL GARNE TS-SPKS PY PO 1%-MT 1%-WEAKLY FOTD LOWER CT SHARP	60
255.0	0.1		AMPH	MG-90% AMPHIBOLE-ALTERED CT OF FOLLO	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				WING UNIT	
256.1	1.1		DIA	META-MG-AMPHIBOLITIC-FELDSPAR 40 TO 45-SPKS PO 1%	60
257.3	1.2		GWKE	META-AS TO 254.9-AMPHIBOLITIC-LOCAL GARNETS-SPKS PY 1%	
258.0	0.7		ARK	META-FG GREY-MICACEOUS-LOCAL GARNETS SPKS PY 1%	
264.0	6.0		GWKE	META-AS TO 254.9-AMPHIBOLITIC-WEAKLY FOTD-SPKS PY 1-2%-PO 1%-LOCAL ZONES MT 1%	60
275.7	11.7		AMPH	METAGWKE WITH INTERBANDED METADIABAS E ( )-HIGHLY METAMORPHOSED-GREEN TO DK GREEN-MOTTLED APPEARANCE-MG GRADA TIONAL ZONES OF VARIOUS PROPORTIONS AMPHIBOLE (UP TO 50% TREMOLITE ACTIN OLITE) & FELDSPAR-BIOTITE (0 TO 25%) WEAKLY FOTD-SPKS PY PO 1%	55
277.4	1.7		AMPH	AS TO 275.7 BUT 75% AMPHIBOLE-DK GRE EN-SPKS PY PO 1%-CTS SHARP	
283.4	6.0		AMPH	AS TO 275.7-WEAKLY FOTD-SPKS PY PO LESS THAN 1%	55
290.8	7.4		AMPH	AS TO 275.7 BUT AMPHIBOLE 80-90% & FINER GRAINED-LOCAL SMALL QTZ STRS	
307.5	16.7		AMPH	AS TO 275.7 GRADING INTO FOLLOWING UNIT-WEAKLY FOTD-SPKS PY PO 1%	55
313.0	5.5		MTSD	META-ARKOSE-FG-MG-GREY BROWN-TREMOLI TE ANTHOPHYLLITE MICA & FELDSPAR IN VARYING PROPORTIONS-LOCAL TREMOLITE ACTINOLITE RICH ZONES (AS TO 290.8) WEAKLY FOTD-312.3 TO 312.6-DIOPSIDE SKARN	60
316.0	3.0		MTSD	AS TO 313.0 BUT LOCAL GARNETS (UP TO 0.4 INCHES)	
355.0	39.0		AMPH	AS TO 275.7 BUT LESS AMPHIBOLE-LOCAL ZONES AS TO 313.0-LOCAL ZONES AS TO 290.8-WEAKLY FOTD-LOCAL ZONES SPKS PY PO 1%	60
358.0	3.0		MTSD	AS TO 313.0-LOWER CT SHARP AT 55	
359.7	1.7	MVVW	ARK	META-LAMINATED-FG GREY BROWN TO GREE N-BIOTITE RICH BNDS-MINOR AMPHIBOLE SPKS PY 1%-X-BEDDED (30 AT 359.0 & 60 DEGREES AT 359.6)-LOWER CT SHARP	
360.6	0.9	MVW	QTE	SERICITIC-LIGHT GREY-MG-MAFICS 5% (MICA CHLORITE)-MINOR INTERBAND OF META-ARKOSE AS TO 359.7	
				359.7 TO 359.9-SPHALERITE 10-12% & PY 1-2%	
364.4	3.8	MVVW	ARK	META-AS TO 359.7-BIOTITE RICH-LOCAL BANDS AMPHIBOLITE AS TO 290.8 & QTZ RICH BANDS (QTE)-SHARP CTS-LOWER CT SHARP-SPKS PY 1%	60
365.0	0.6		QTE	AS TO 360.6-LOWER CT SHARP AT 60	
365.2	0.2		ARK	META-AS TO 359.7	
365.3	0.1		QTE	AS TO 360.6-LOWER CT SHARP	
366.0	0.7		ARK	META-AS TO 359.7-LOWER CT SHARP	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
367.6	1.6		QTE	AS TO 360.6-CROSS-BEDDED 60 AT 371.5 & 45 AT 372.0	
380.0	12.4		QTE	SERICITIC-FG-LIGHT YELLOWISH GREY TO YELLOWISH WHITE-BECOMING PURER DOWNHOLE-NO MAFICS-LOCAL WHITE MASSIVE QTZ VEINS	
383.7	3.7		QTE	FG-LIGHT GREY-10% IRREGULAR MAFIC BANDS-BIOTITE CHLORITE-LOWER CT SHARP AT 60	
384.5	0.8		QTE	AS TO 380.0-LOWER CT SHARP AT 60	
384.9	0.4		QTE	AS TO 383.7	
385.3	0.4		QTE	AS TO 380.0	
385.5	0.2		QTE	AS TO 383.7	
386.1	0.6		QTE	AS TO 380.7	
386.4	0.3		QTE	SERICITIC-FG-LIGHT GREY-5% IRREGULAR MAFIC BANDS (BIOTITE CHLORITE)	
389.4	3.0		QTE	FG GREY-IRREGULAR MAFIC BNADS (BIOTITE CHLORITE) 25% DECREASING TO 10% DOWNHOLE WITH NON-MAFIC ZONES	
390.1	0.7		QTZ	VEIN-WHITE MASSIVE-SHARP IRREGULAR CONTACTS	
391.1	1.0		QTE	AS TO 386.4-LOWER CT SHARP AT 60	
394.3	3.2		QTE	AS TO 380.0 BUT 1-2% IRREGULAR MAFIC BANDS (BIOTITE CHLORITE)-SOME ARE BED-LIKE WITH SHARP CTS	
394.9	0.6		QTE	AS TO 386.4	
395.5	0.6		QTE	AS TO 389.4	
396.1	0.6		QTE	AS TO 386.4	
396.4	0.3		QTE	FG GREY 25% IRREGULAR MAFIC BANDS (CHLORITE BIOTITE)-POSSIBLE BEDS-LOCAL MASSIVE WHITE QTZ VEINS	
400.5	4.1		QTE	AS TO 386.4	
401.7	1.2		QTE	AS TO 383.7-LOWER CT SHARP AT 60	
402.0	0.3		QTE	AS TO 386.4-LOWER CT SHARP AT 60	
402.6	0.6		QTE	AS TO 396.4	
403.2	0.6		ARK	META-AS TO 364.4	
403.5	0.3		QTE	AS TO 396.4-LOWER CT SHARP AT 70	70
404.3	0.8		ARK	META-AS TO 364.4-LOWER CT SHARP 70	
405.2	0.9		QTE	AS TO 396.4	
406.3	1.1		QTE	AS TO 383.7-LOWER CT SHARP AT 70	
408.5	2.2		QTE	AS TO 396.4-LOWER CT SHARP AT 50	
412.6	4.1		QTE	AS TO 383.7-LOWER CT SHARP AT 70	
413.7	1.1		QTE	AS TO 386.4-LOWER CT SHARP AT 60	60
415.9	2.2		QTE	AS TO 383.7	
416.3	0.4		QTE	AS TO 396.4	
417.6	1.3		QTE	AS TO 386.4	
418.2	0.6		QTE	AS TO 383.7	
418.5	0.3		QTE	AS TO 396.4	
418.6	0.1		QTE	AS TO 386.4	
422.2	3.6		QTE	AS TO 383.7-UNIT COMPRISED OF SEVERAL BEDS WITH SHARP CTS AT 50-LOWER CT SHARP AT 55	
422.4	0.2		QTE	AS TO 386.4/LOWER CT SHARP AT 55	
422.7	0.3		QTE	AS TO 383.7-LOWER CT SHARP AT 60	
422.9	0.2		QTE	AS TO 386.4-LOWER CT SHARP AT 60	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
423.1	0.2		QTE	AS TO 396.4-LOWER CT SHARP 60	
424.0	0.9		QTE	AS TO 386.4-LOWER CT SHARP AT 55	60
424.3	0.3		QTE	AS TO 396.4	
426.2	1.9		QTE	AS TO 383.7-LOCAL QTZ VEINS	
428.8	2.6		QTE	AS TO 389.4-LOWER CT SHARP AT 65	
439.3	10.5		DIA	META-FG DK GREY GREEN-MASSIVE WITH FOTD CTS-LOWER CT SHARP AT 70-SPKS PY 1%	
439.9	0.6		QTE	AS TO 383.7-LOWER CT SHARP AT 70	
440.1	0.2		QTE	AS TO 394.3-LOWER CT SHARP AT 70	
440.6	0.5		QTE	AS TO 383.7-LOWER CT SHARP AT 70	
441.4	0.8		QTE	AS TO 394.3	
441.6	0.2		QTE	AS TO 386.4	
452.3	10.7		QTE	AS TO 380.0-COMPRISED OF SEVERAL BEDS-FOTD 60 AT 447.0 & 70 AT 451.0-LOWER CT SHARP AT 60	
452.4	0.1		QTE	AS TO 386.4-SPKS & CUBES PY 3-4%-LOWER CT SHARP AT 60	
453.9	1.5		QTE	AS TO 386.4-SPKS PY 1-2%	60
454.4	0.5		QTE	AS TO 396.4	
456.4	2.0		QTE	AS TO 383.7-LOWER CT SHARP AT 60	60
457.0	0.6		QTE	AS TO 396.4-LOWER CT SHARP AT 60	
459.5	2.5		QTE	AS TO 383.7-LOWER CT SHARP AT 70-LOCAL QTZ VEINS	60
459.9	0.4		QTE	AS TO 396.4	
460.0	0.1		QTE	AS TO 380.0	
460.8	0.8		QTE	AS TO 396.4-LOWER CT SHARP AT 70	
463.3	2.5		QTE	AS TO 394.3-LOWER CT SHARP AT 70	70
463.6	0.3		QTE	AS TO 396.4-LOWER CT SHARP AT 70-SPKS PY 1-2%	
465.1	1.5		QTE	AS TO 383.7-LOCAL IRREGULAR QTZ VEINING-SPKS PY 1-2%	
467.9	2.8		QTE	AS TO 383.7 BECOMING MORE MAFIC DOWN HOLE-GRADES INTO FOLLOWING UNIT-SPKS PY 1%-COMPRISED OF SEVERAL SMALL BEDS	60
469.0	1.1		QTE	FELDSPATHIC-WITH INDISTINCT QTZ MASSES (PEBBLES) UP TO 0.2 INCHES-FG DK GREY AMPHIBOLE CHLORITE QTZ FELDSPAR MATRIX-SPKS PY 1%-CUT BY CALCITE STRS (5-6%)	
470.1	1.1		AMPH	METAGWKE-AS TO 298.0-SPKS PY 1%	
474.9	4.8	MVVw	ARK	META-FG MG-AMPHIBOLITIC-AMPHIBOLE & MICA 25-30% IN A FINER GRAINED MATRIX OF QTZ-FELDSPAR-WEAKLY FOTD-LOWER SHARP CT-SPKS PY 1% TS-C-73-3220 @ 471.0' META ARK	80
475.3	0.4	MW	QTE	FG MG WITH BNDS CHLORITE MICA AMPH 25-30%-LOWER CT SHARP AT 70-PO 10-12 %-NON MAGNETIC-PY 10-12%	70
477.2	1.9	MVVW	ARK	META-AS TO 474.9-LOWER CT SHARP AT 70-SPKS PY 1%	70
477.5	0.3		ARK	META-AS TO 364.4	
479.0	1.5		QTE	AS TO 389.4-LOWER CT SHARP AT 70	
479.7	0.7		QTE	AS TO 383.7-LOWER CT (479.5-479.7)	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				SLUMP STRUCTURES-BALL LIKE IN APPEAR ANCE	
486.4	6.7		QTE	AS TO 396.4-UNIT COMPRISED OF SEVERA L BEDS-MAFIC CONTENT VARIABLE WITH SHARP IRREGULAR	
487.2	0.8	MVVW	QTE	AS TO 383.7-SPKS PY 1%	
487.8	0.6	MVVW	QTE	AS TO 396.4-SPKS PY 1%	
488.3	0.5	MVVW	QTE	AS TO 394.3-SPKS PY 1%	50
489.4	1.1		QTZ	VEIN-WHITE MASSIVE	
489.8	0.4	MVVW	QTE	AS TO 383.7-SPKS PY 1%	
490.1	0.3	MVVW	QTE	AS TO 394.3	50
490.6	0.5	MVVW	QTE	AS TO 383.7	
491.1	0.5	MVVW	QTE	AS TO 386.4	
498.5	7.4	MVW	QTE	AS TO 396.4 WITH 25-30% ZONES AS TO 394.3-SMALL CONCENTRATIONS GALENA 1% & SPHALERITE 1-2% IN STRS IN MORE MA FIC ZONES-SPKS PY 1-2%	60
500.4	1.9	MVVW	QTE	AS TO 396.4-LOWER CT SHARP AT 60-SPK S PY 1%	60
517.1	16.7		QTE	AS TO 380.0 COMPRISED OF SEVERAL BED S-CROSS BEDDED AT 60 AT 501.0-45 AT 504.0-50 AT 511.6-SEVERAL MORE MAFIC BNDS (BEDS) NEAR BOTTOM OF UNIT 505.0 & 505.4-SEAMS TURQUOISE GREEN FUCHSITE 510.7-0.1 INCH SEAM PY 514.5 & 514.8-1 INCH MORE MAFIC BEDS WITH SPKS PY 1-2%	
519.8	2.7	MVVW	QTE	AS TO 389.4-LOWER CT SHARP AT 60-SPK S PY PO 1%	
521.0	1.2	MVVW	QTE	AS TO 383.7-SPKS PY 1%	
523.5	2.5	MVVW	QTE	AS TO 386.4-SPKS PY 1%-LOWER CT SHA RP AT 60	60
529.0	5.5	MVW	QTE	AS TO 396.4 WITH 50% INTERBANDED ZON ES AS TO 386.4-MINERALIZATION IN MAF IC BANDS-GALENA 2-3%-SPHALERITE 1-2% SPKS PY 1% 523.5 TO 523.4-GALENA 7-8%-SPHALERIT E 5-6%	
531.6	2.6	MVVW	QTE	AS TO 383.7 WITH 10% INTERBANDED ZON ES (BEDS) AS TO 396.4-SPKS PY 1%	
532.4	0.8	MVVW	QTE	AS TO 396.4-SPKS PY 1%	
537.3	4.9	MVVW	QTE	AS TO 386.4-MINOR MAFIC RICH ZONES SPKS PY 1%	60
538.3	1.0	MVW	QTE	AS TO 396.4-BUT LOCAL AMPHIBOLITIC Z ONE-GALENA 1-2%-SPHALERITE 1%-PY AS SPKS & CLOTS 3-4% 537.6 TO 537.9-GALENA 2-3%-SPHALERIT E 1-2%	
539.3	1.0	MVVW	QTE	AS TO 383.7-SPKS PY 1%	60
539.9	0.6	MVVW	QTE	AS TO 396.4-LOWER CT SHARP AT 60-SPK S PY 1%	
542.3	2.4	MVVW	QTE	AS TO 383.7 WITH 35-40% ZONES (BEDS) AS TO 396.4-SPKS PY 1%	
546.0	3.7		QTE	AS TO 394.3 BECOMING PURER DOWNHOLE	60

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
557.6	11.6		QTE	AS TO 396.4 WITH 30% INTERBANDED BED S AS TO 386.4-LOWER CT SHARP AT 60	60
561.9	4.3		QTE	AS TO 383.7-LOWER CT SHARP	60
562.0	0.1		GWKE	META-AS TO 214.2 BUT GARNETS UP TO 0.2 INCHES-LOWER CT SHARP	
562.2	0.2		QTE	FG-GREY 15-20% MICA & CHLORITE BNDS AS TO 562.0	
562.5	0.3		QTZ	VEIN-WHITE MASSIVE WITH 10% MAFIC (B IOTITE) INCLUSIONS	
565.6	3.1		GWKE	META-AS TO 562.0-GARNETS UP TO 0.4 I NCHES-LOWER CT SHARP AT 60	75
570.6	5.0		QTE	AS TO 396.4 BECOMING PURER DOWNHOLE	
575.0	4.4		QTE	AS TO 380.0 BECOMING PURER DOWNHOLE	60
585.1	10.1		QTE	AS TO 383.7-LOWER CT SHARP	
593.4	8.3		QTE	AS TO 386.4	
594.7	1.3		QTE	AS TO 396.4	
597.2	2.5		QTE	AS TO 383.7-596.8 TO 597.2-SPKS PY 1%	
600.9	3.7		QTE	AS TO 386.4	
605.4	4.5		QTE	AS TO 396.4-SPKS PY 1% THROUGHOUT	
606.6	1.2		QTE	FG MG-DK GREY WITH 25% MAFICS (CHLOR ITE MICA) & AMPHIBOLE INTERSTITIAL TO QTZ GRAINS-SPKS PY 1%-LOWER CT SHARP	
609.4	2.8		QTE	AS TO 396.4	
614.9	5.5		QTE	AS TO 383.7-OCCASIONAL SPKS PY	
615.9	1.0		QTE	AS TO 606.6-SPKS PY 1%	
625.9	10.0		QTE	AS TO 386.4-OCCASIONAL SPKS PY	
626.2	0.3		QTE	AS TO 383.7-SPKS PY 1%	
630.6	4.4		QTE	AS TO 386.4	
631.7	1.1		QTE	AS TO 606.6 BUT MAFICS 15-20%	
634.1	2.4		QTE	AS TO 383.7	
636.4	2.3		QTE	AS TO 386.4 BECOMING PURER DOWNHOLE OCCASIONAL SPKS PY-LOWER CT SHARP	60
640.4	4.0		QTE	AS TO 389.4	
645.2	4.8		QTE	AS TO 383.7	
646.9	1.7		QTE	AS TO 606.6 BUT MAFICS 10-15%-SPKS PY 1%	
650.2	3.3		QTE	AS TO 383.7	
651.5	1.3		QTE	CG-GRANULAR-GREY-8 TO 10% BIOTITE CH LORITE CLOTS & STRS-LOWER CT SHARP AT 60	
651.7	0.2		QTE	AS TO 394.3-LOWER CT SHARP AT 60	
652.1	0.4		QTE	AS TO 651.5	
654.8	2.7		QTE	AS TO 386.4	
657.4	2.6		QTE	AS TO 651.5 BUT IRREGULAR CONTORTED CONTACTS OF BEDS THROUGHOUT (SLUMPIN G)	
666.5	9.1		QTE	AS TO 383.7-656.0 TO 659.2 IRREGULAR UNDULATING SEDIMENTARY (BEDDING) CO NTACT AT 0 DEGREES ALONG ZONE-POSSIB LE TROUGH -NO BEDDING OR FOTN MEASUR ABLE TO BOTTOM OF HOLE	
668.6	2.1		QTE	AS TO 386.4	
669.0	0.4		QTE	AS TO 383.7	

DEPTH	LENGTH	MNZN	ROCK		DESCRIPTION	ANG
671.3	2.3		QTE	AS TO 386.4		
672.6	1.3		QTE	AS TO 383.7		
677.9	5.3		QTE	AS TO 386.4		
678.5	0.6		QTE	AS TO 383.7		
681.7	3.2		QTE	AS TO 386.4		
683.4	1.7		QTE	AS TO 383.7		
686.4	3.0		QTE	AS TO 386.4		
686.8	0.4		QTE	AS TO 383.7		
691.3	4.5		QTE	AS TO 386.4		
691.6	0.3		QTE	AS TO 383.7		
699.3	7.7		QTE	AS TO 386.4		
704.0	4.7		QTE	AS TO 394.3		
713.5	9.5		QTE	AS TO 386.4		
714.6	1.1		QTE	AS TO 383.7		
718.3	3.7		QTE	AS TO 386.4	BECOMING MORE MAFIC (UP TO 15%) DOWNHOLE-LOWER CT SHARP	20
719.0	0.7		GWKE		META-AMPHIBOLITIC-FG DK BROWN GREEN INTERBANDED BIOTITE RICH BANDS WITH AMPHIBOLE RICH BANDS-MINOR FELDSPAR QTZ-MINOR X-BEDDING- FOOT CF HOLE SPECTROMETER READINGS WITH SCINTREX GIS-3-NUMBER 905 107 THIN SECTIONS AT 186.7 471.0	45

BOREHOLE RECORD
****

DATE PROCESSED APR 01,1974

CHK'D.....

BOREHOLE#	PROPERTY	NTS#	SH#	ANOM#	DEPTH	AZIMUTH	DIP	LATITUDE	DEPARTURE	ELEVATION	LEVEL
55322-0	SAKAMI PROJECT	33F 2W			1191	180 00	-45 00	N 1020	W 2400		DATE.....

INCLINATION AND TROPARI TESTS

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP
100		-40 30	200		-36 30	300		-34 45	400		-31 00	500		-27 30
600		-29 00	700		-27 30	800		-27 30	900		-23 00	1000		-24 00
1100		-17 30	1190		-16 30									

TOPS OF WEDGES

COMMENTS

LOGGED BY..DEBICKI E J STARTED..JULY 01,1973 COMPLETED..JULY 17,1973 DRILLED INSPIRATION BES 3-AQ CORE-PERMIT 548-ZONE 2
34 FT AW CASING & CASING SHOE 70717 LEFT IN HOLE

SAMPLE ENTRIES

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
0.0	0.0			COLLAR	
				ULTRAMAFIC TYPES A B & C DEFINED IN BH 55303	
32.0	32.0			OVERBURDEN-10 FEET SWAMP-20 FEET SAND-2 FEET BOULDERS-AW CSG TO 34.0 FEET-START OF CORE	
35.4	3.4		ARK	META-(VOLCANIC)-FG MEDIUM GREY-LAMINATED-FELDSPAR RICH-MICACECUS-CHLORITIC-MINOR CALCITE-FELDSPAR CLASTS (PORPHYRIES) UP TO 0.1 INCH-UNDULATING FOTN (BEDDING)-LOCAL INTERCALATED IRREGULAR BNDS YELLOWISH BUFF GREY RHYOLITE -GARNETS-GRADES INTO FOLLOWING UNIT-SPKS PY 1% SEVERAL CUBES ARSENOPYRITE	
36.5	1.1		QTE	SERICITIC-INTERCALATED WITH RHYOLITE (PORPHYRITIC)-FG-BUFF GREY-MAFICS 5% BECOMING PURER DOWNHOLE-GARNETS-WEAKLY FOTD-LOWER CT SHARP AT 50	50
37.5	1.0		ARK	META-AS TO 35.4-LOWER CT SHARP AT 50 SPKS PY 1%	50
56.0	18.5		QTE	AS TO 36.5-(RHYOLITE-PORPHYRITIC)-BECOMING MORE MAFIC (10%) DARKER GREY & INCREASING CONTENT (UP TO 5%) QTZ CLASTS (PORPHYRIES) UP TO 0.1 INCH-MICACEOUS BEDDING CTS (BETWEEN QTE & RHYOLITIC ZONES)-STRONGLY FOTD-LOCAL FELDSPAR CLASTS(PORPHYRIES)-LOCAL PARALLEL WISPY STRS DK GREY MICA-GRADES INTO FOLLOWING UNIT-SPKS PY 1%	50
74.0	18.0		ARK	META-AS TO 35.4 BUT INCREASING NUMBER BIOTITE EYES (10-15%) DOWNHOLE IN PLANE OF FOTN-SOME X-BEDDING-LOCAL UNDULATING DEPOSITIONAL CONTACTS-LOWER CT SHARP AT 50	50
74.1	0.1	MVVW	GWKE	META-FG TO MG-DK GREEN-AMPHIBOLE & M	

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DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				ICA 60% FELDSPAR & QTZ 40% LOWER CT SHARP AT 50-SPKS PY 1%	
74.5	0.4	MVVW	ARK	META-AS TO 35.4 WITH SOME METAGWKE AS TO 74.1 LOWER CT SHARP AT 40-SPKS PY 1%	50
77.0	2.5	MVVW	MTSD	FG-PALE GREY GREEN-HIGHLY CHLORITIC-MICA-MINOR FUCHSITE -QTZ FELDSPAR 50%-STRONGLY FOTD-MINOR X-BEDDING-BECOMING AS TO 74.1 DOWNHOLE-(BANDED LOCAL GARNETS & SMALL QTZ VEIN)-LOWER CT SHARP-STRS & SPKS PY 1%	50
78.8	1.8	MVW	GWKE	META-AS TO 74.1 BUT LOCAL GARNETS & MINOR GREY BROWN BIOTITE RICH META-ARKOSE BNDS-MINOR X-BEDING-LOWER CT SHARP-77.2 TO 77.4 & 78.5 TO 78.8 BNDS SULPHIDE IF-CLOTS PY 60% PO 5-6% INTERSTITIAL TO QTZ GRAINS	50
81.2	2.4	MVVW	DIA	META-MG-GREY GREEN-AMPHIBOLITIC-50% AMPHIBOLE-50% FELDSPAR-WEAKLY FOTD-LOWER CT SHARP-SPKS PY 1%	50
82.5	1.3	MW	IF	IRREGULAR BANDS SULPHIDE-PY 8-9%-PO 3-4% IN A FG DK GREY QTE MATRIX-LOCAL MINOR METAGWKE ZONES-LOWER CT UNDULATING (DEPOSITIONAL)	
83.9	1.4	MW	IF	INTERBANDED SULPHIDE IF (30%) AS TO 82.5 WITH OXIDE IF-DK GREY MAGNETITE 10-15% IN IRREGULAR CONTORTED (SEDIMENTARY) BEDS-LOWER CT CONTORTED	
85.2	1.3	MVVW	MTSD	VCG-GREY GREEN-TREMOLITE ANTHOPHYLLITE (MINOR ACTINOLITE) FIBRES (60%) IN A FINER GRAINED QTZ FELDSPAR MATRIX-84.9 TO 85.2-GARNETS-LOWER CT SHARP BUT UNDULATING-SPKS PY 1%	
85.5	0.3	MVW	IF	INTERBANDED SULPHIDE (PO PY 5-6%) OXIDE (MAGNETITE 10-15%) MINOR GREEN AMPHIBOLE RICH BNDS (5%) & LIGHT GREY QTE BNDS UNDULATED THROUGHOUT-LOWER CT SHARP	
86.1	0.6	MVVW	QTE	LIGHT GREY-MASSIVE-GRANULAR-GRITTY-CALCITE 5-6%-SPKS PY PO 1%	
86.5	0.4	MVW	IF	AS TO 85.5-LOWER CT SHARP AT 50	50
87.6	1.1	MVW	IF	OXIDE-MAGNETITE 75% IN AMPHIBOLE GARNET MATRIX-FG MG-DK GREY-LOWER CT SHARP AT 50-MINOR BNDS PY 1-2%	50
88.6	1.0	MVW	IF	AS TO 87.6 BUT NO GARNETS	50
88.8	0.2	MVW	IF	AS TO 85.5-LOWER 1 INCH OF UNIT GARNETIFEROUS	
93.7	4.9	MVVW	QTE	MICACEOUS-FELDSPATHIC-FG MG-GREY-NUMEROUS PARALLEL CALCITE STRS WITH SMALL VUGS OF CALCITE CRYSTALS-LOCAL GARNETS-LOWER CT SHARP-SPKS PY 1%	50
99.3	5.6	M	IF	AS TO 87.6 BUT NO GARNETS-DK GREY GREEN-PY 25-30%-PO 25-30%-MAGNETITE 10-15%	
102.9	3.6	MVVW	QTE	MG-GRITTY-GRANULAR-5 TO 10% INTERSTI	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				TIAL AMPHIBOLE MICA-LOCAL BNDS MICA & GARNETS-LOCAL IRREGULAR (SLUMPED) BNDS OXIDE & MT IF 15-20%-LOCAL BNDS QTZ IRREGULAR QTZ MASSES PRODUCED BY SLUMPING (BRECCIA LIKE)-BEDDING HIGH LY CONTORTED-SPKS PY 1%	
118.8	15.9		QTE	MICACEOUS-FELDSPATHIC-FG TO MG-LIGHT TO MEDIUM GREY-LAMINATIONS & BEDS UP TO 1 INCH-BEDDING CONTORTED (SLUMPED & X-BEDED)-LOCAL QTZ MASSES (SOME BR ECCIA LIKE) WITH BIOTITE SELVAGES-MA FIC CONTENT VARIABLE 10-15%-BIOTITE AMPHIBOLE CHLORITE (BNDS SELVAGES & INTERSTITIAL TO FELSIC GRAINS)-LOCAL SERICITIC ZONES GARNET ZONES-INTERST ITIAL SPKS & CLOTS PY PO 1%	50
127.4	8.6		MTSD	LAMINATED SEQUENCE-LIGHT GREY FG ARK OSE-QTE (WITH MINOR MAFICS) & DK GRE Y BIOTITE-CHLORITE GARNETS (NON-MAGN ETIC IF)-CONTORTED LAMINATIONS-LOWER CT SHARP AT 30	50
127.8	0.4		QTE	FG GREY-BIOTITE CHLORITE SERICITE 5- 10%-MINOR QTZ GRITS-GARNETS-WEAKLY FOTD-LOWER CT SHARP AT 40	50
128.9	1.1		MTSD	AS TO 127.4 BUT FEWER GARNETS-LOWER CT SHARP AT 40	40
129.1	0.2		QTE	AS TO 127.8-LOWER CT SHARP AT 40	
131.0	1.9		MTSD	AS TO 127.4-GRADES INTO FOLLOWING UN IT	40
135.7	4.7		QTE	SIMILAR AS TO 127.4 BUT FEWER MAFIC BNDS LESS GARNETS & INCREASED THICKN ESS OF BEDS DOWNHOLE-CONTORTED FOTN DUE TO SLUMPING X-BEDDING & DEPOSITI ONAL CONTACTS-GARNETS AS BNDS ONLY-L OCAL BNDS PY PO 1%-LOCAL SERICITIC RICH FOTN PLANES AT 40	
140.2	4.5	MVVW	QTE	AS TO 135.7-SPKS PY 1%	
145.3	5.1	MVW	QTE	FG MG-GREY-BIOTITE CHLORITE 15-20%-L OCAL GARNETS-SPKS PY 1%-PO 1-2%-WEAK LKY FOTD	40
156.3	11.0	MVVW	QTE	FG-MEDIUM BUFF GREY-MINOR SERICITE-C HLORITE & MICA 5% BECOMING MORE MAFI C DOWNHOLE-LOWER CT SHARP AT 40-BEDD ING WEAKLY PRESERVED-WEAKLY FOTD-LOC AL QTZ VEINS-SPKS CLOTS PY 1%	40
157.1	0.8	MVW	GWKE	META-MG GREY GREEN-AMPHIBOLE 25-30% MICA & CHLORITE 5-10%-FELDSPAR 30-40 %-STRONGLY FOTD-LOWER CT SHARP AT 40 SPKS CLOTS STRS (PARALLEL TO FOTN) PO PY 5-6%	40
162.2	5.1	MVVW	QTE	FG GREY MASSIVE TO WEAKLY FOTD-MINOR SERICITE CHLORITE MICA 5-10% SPKS PO PY 1% 158.7 TO 159.1-ZONE OF VEIN LIKE DK BLACK GREEN AMPHIBOLE BIOTITE CALCI	40

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				TE (POSSIBLE SKARN)	
167.5	5.3		DIA	META-(METAGWKE)-FG DK GREY GREEN-AMP HIBCLE & FELDSPAR RICH-LOCAL QTZ STR S-WEAKLY FOTD-LOWER CT SHARP AT 40 SPKS PY 1%	40
168.5	1.0	MVVW	QTE	AS TO 162.2 BECOMING SLIGHTLY MORE MAFIC & INCREASING CONTENT SPKS PY (1%) DOWNHOLE-LOWER CT SHARP AT 30 9-13 CPS TO 38-46 CPS DOWNHOLE	
168.7	0.2	MVW	QTE	AS TO 162.2-MASSIVE-SPKS PY 1%-LOWER CT SHARP AT 30-52 TO 60 CPS	
168.9	0.2	MVW	QTE	AS TO 162.2 BUT SMALL BNDS (STRS) MI CA & CHLORITE PARALLEL TO FOTN-SPKS PY 5-6%-LOWER CT SHARP AT 30-135 TO 150 CPS	
169.2	0.3	MVW	QTE	AS TO 162.2-SPKS PY 1%-38-46 CPS	
169.3	0.1	MVVW	QTE	AS TO 162.2 BUT LOCAL CHLCRITIC BNDS PARALLEL TO FOTN-SPKS PY 1%-28 TO 34 CPS	
172.6	3.3	MVVW	QTE	AS TO 162.2-LOCAL QTZ-FELDSPAR VEINS (SLIGHTLY PINK)-SPKS PY 1%-11 TO 1M CPS	
174.9	2.3		QTE	FG MEDIUM GREY-CHLORITE & MICA 20-25 % INTERSTITIAL & AS BNDS ALONG FOTN PLANES-MINOR X-BEDDING-OCCASIONAL SP KS PY-LOWER CT IRREGULAR	
175.1	0.2		GWKE	META-FG DK GREY GREEN-AMPHIBCLE FELD SPAR RICH-MICA 5-10%-LOWER CT IRREGU LAR	80
175.3	0.2		QTE	AS TO 162.2-LOWER CT SHARP AT 50-175 .2 TO 175.5-CG FIBROUS AMPHIBCLE CRY STALS WITH MINOR CALCITE & INTERSTIT IAL CLOTS PY 1%	
190.5	15.2		DIA	META-AS TO 167.5 WITH POSSIBLE METAG WKE ZONES (MORE FOTD & SLIGHTLY BIOT ITIC)-FG & FOTD AT CTS BECOMING CG TO CENTRE OF UNIT-SPKS PY 1%-LOWER CT SHARP AT 40	40
195.7	5.2		QTE	MG-CG-GREY GRANULAR-MASSIVE-MICA-CHL ORITE 5-10%-LOCAL PINK-WHITE QTZ FEL DSPAR VEIN-LOCAL LESS MAFIC ZONES-LO WER CT SHARP AT 70	
196.2	0.5		GWKE	META-AS TO 175.1-LOWER CT SHARP AT 50	
197.5	1.3		VOLC	ANDESITE-BASALT-DK GREEN MASSIVE-CHL ORITE AMPHIBOLE RICH-NUMEROUS QTZ ST RS-LOWER CT SHARP AT 70-SPKS PY 1%	
197.7	0.2		GWKE	META-AS TO 175.1-LOWER CT SHARP 65	70
199.3	1.6		VOLC	AS TO 197.5-LOWER CT SHARP AT 60-SPK S PY 1%	
203.6	4.3		ARK	META-MICACEOUS-FG GREY 5-10% CLOTS (EYES) AMPHIBOLE MICA ELONGATED PARA LLEL TO WEAK FOTN-BECOMING QTZ RICHE R DOWNHOLE-SPKS PY 1%-LOWER CT SHAR P AT 65	75

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
213.6	10.0	MVW	RHY	PORPHYRITIC-MG-PINK BUFF GREY-FELDSPAR & QTZ PORPHYRIES UP TO C.1 INCH-CLOTS MICA (BLACK,SOFT) LESS THAN 0.1 INCHES IN SIZE-DISSEMINATED SPKS PY 2-3%-LOCAL ZONES OF NUMEROUS HOLES (LESS THAN 0.1 INCH)-LEACHING OF PYRITE (REMOVED)	
223.6	10.0	MVW	RHY	AS TO 213.6-LESS PINK-LOCAL QTZ VEINS & SMALL FRACTURES-SPKS PY 2-3%	
230.0	6.4	MVW	RHY	AS TO 223.6-SPKS PY 2-3%	
238.0	8.0	MVW	RHY	AS TO 223.6-PY SPKS & ALONG FRACTURES 2-3%-LOWER CT SHARP AT 40	
239.3	1.3		DIA	META-AS TO 167.5-SPKS PY 1%	
241.8	2.5		GWKE	META-AS TO 175.1-(POSSIBLE METADIABASE ZONES)-SPKS PY 1%-WEAKLY FOTD-LOWER CT SHARP AT 50-241.0 TO 241.6-FINER GRAINED ZONE 241.6 TO 241.8-DIOPSIDE SKARN	50
244.6	2.8		QTE	MG-MEDIUM TO DK GREY-GRANULAR WITH 20-25% MICA CHLORITE ALONG FRACTURES FOTN PLANES-25-30% QTZ & CALCITE VEINS-LOCAL PINK QTZ FELDSPAR VEINS-SPKS PY 1%-243.1-BRECCIATED ( ) ZONE-LARGE QTE FRAGMENT WITH BIOTITE SELVAGE-243.9-0.2 INCH MICA CHLORITE BND	
247.4	2.8		QTE	FG-GREY-5-10%-CHLORITE-MICA-MINOR SERICITE-LOCAL QTZ VEINING-SPKS PY 1%	40
250.0	2.6	MVVW	QTE	AS TO 247.4-SPKS PY 1%	
252.5	2.5	MVVW	QTE	AS TO 244.6-QTZ VEINING 50%-LOWER CT SHARP BUT IRREGULAR-LOCAL PINK QTZ-FELDSPAR VEINS-SPKS PY 1%	
253.1	0.6	MW	QTE	FG GREY-10-15% MICA-CLOTS & STRS PY PARALLEL TO FOTN 15-20%-252.5 TO 253.1 MICA AMPHIBOLE BND	
258.1	5.0	MVW	QTE	FG-MEDIUM TO DK GREY-MICA CHLORITE 15-20%-LOCAL QTZ RICH BNDS & WELL FOTD MORE MAFIC ZONES-LOCAL PINK QTZ-FELDSPAR VEINS-SPKS CLOTS PY 1-2%	40
261.2	3.1	MVVW	QTE	AS TO 258.1-SPKS PY 1%-259.1-1 INCH BND EXTENSIVE PINK FELDSPAR QTZ CALCITE VEINING	
262.0	0.8	MVW	QTE	FG-DK GREY-CHLORITE & MICA INTERSTITIAL & AS BNDS-SPKS CLOTS STRS PY 1-2%-PC 1%-261.2 TO 261.4-ARSENOPYRITE CUBES 3-4% ALONG FOTN PLANES IN CHLORITE MICA MATRIX	55
266.1	4.1	MVVW	QTE	AS TO 258.1-SPKS CLOTS PY PC 1%	
271.7	5.6		QTE	FG-DK GREY-MICA CHLORITE 20-25% ALONG FOTN PLANES-SPKS PY PO 1%	45
284.3	12.6		QTE	FG-MEDIUM GREY-CHLORITE MICA 10-15% LOCAL WEAKLY FOTD ZONES,QTZ RICH ZONES (LESS MAFIC),QTZ VEINING,PINK FELDSPAR VEINING-SPKS PY 1%	
285.8	1.5		QTZ	VEIN-WHITE MASSIVE-5% MAFIC INCLUSIONS CUT BY PINK QTZ-FELDSPAR VEINS-SH	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				ARP CTS	
286.9	1.1		QTE	FG-GREY-SLIGHT TINGE YELLOW-SERICITI C MICA CHLORITE 5-6%	50
287.6	0.7		QTE	AS TO 286.9 BUT MICA SERICITE	
291.5	3.9		QTE	AS TO 286.9	60
292.0	0.5		QTE	AS TO 286.9 BUT NON-SERICITIC-LOWER CT SHARP AT 60	
296.3	4.3		DIA	META-AS TO 167.5-WEAKLY FOTD-FG AT C TS BECOMING COARSER GRAINED TO CENTR E OF UNIT-LOWER CT SHARP (0.1 INCH B IOTITE)-SPKS PY 1%	50
297.2	0.9		QTE	FG-GREY-5% MICA CHLORITE-LOWER CT SH ARP BUT IRREGULAR	
297.9	0.7		GWKE	META-AS TO 175.1-LOWER CT HAS FORMED FLAME STRUCTURE INTO FLOWING UNIT	40
298.0	0.1		QTE	AS TO 297.2-LOWER CT SHARP AT 55	
298.1	0.1		GWKE	META-AS TO 175.1-LOWER CT SHARP 45	55
303.3	5.2	MVVW	QTE	FG-LIGHT GREY-GRANULAR-5% MICA CHLOR ITE-SPKS PY 1%-5-15 CPS	45
303.6	0.3	MVVW	CONG	ELONGATED 0.1 TO 0.4 INCH QTZ PEBBLE S (75%) AT 45-MICA CHLORITE SELVAGES SPKS PY 4-5%-70 TO 80 CPS	45
306.5	2.9	MVVW	QTE	AS TO 303.3 BUT BECOMING MORE MAFIC DOWNHOLE (10-15%)-SPKS PY 1%-WEAKLY FOTD-7-15 CPS -305.4 TO 305.6-NUMERO US QTZ RICH ZONES WITH SPKS CLOTS PO PY 2-3%	
307.3	0.8	MVW	CONG	ELONGATED 0.2 TO 0.8 INCH FRACTURED QTZ PEBBLES (75-80%) AT 45 DECREASIN G IN SIZE DENSITY DOWNHOLE-BIOTITE C HLORITE SELVAGES-SPKS CLOTS PY 5-6% 125-140 CPS AT 306.6,180-195 CPS AT 306.8,42-54 CPS AT 307.2	45
312.3	5.0	MVVW	QTE	FG-GREY WITH 20-25% CHLORITE MICA MI NOR SERICITE BNDS AT 50 SOME SELVAGE LIKE (GIVES PEBBLE APPEARANCE)-LOCAL QTZ FELDSPAR VEINS-SPKS PY 1%-9 TO 17 CPS	
315.8	3.5		QTE	AS TO 312.3-9 TO 17 CPS	50
317.3	1.5		QTE	CG-WHITE 10% IRREGULAR BANDED MASSES BLACK ALTERED MICA AMPHIBOLE -SPKS PY 1%	
318.2	0.9		QTE	AS TO 312.3-50-60% CHLORITE MICA AMP HIBOLE BNDS-WELL FOTD-LOWER CT SHARP & CONTORTED (FOLDED)	50
318.4	0.2		UM	ALTERED CT OF ULTRAMAFIC-MG CG-DK GR EEN-HORNBLENDE RICH-STRONGLY MAGNETI C-PY PO 7-8%-MT 3-4%	50
323.6	5.2		UM	ALTERED PERIDOTITE-FG MG-GREY TALCOS E-FOTD BECOMING MORE MASSIVE DOWNHOL E-FINELY BANDED-SMALL SCALE CONTORTE D FLOW BANDED-LOCAL TREMOLITE TALC R ICH ZONES-MT 1-2%-ZONES PO 3-4%	50
325.3	1.7		UM	AS TO 323.6 BUT LESS FOTD-MT 1-2%	50
333.5	8.2		UM	AS TO 323.6-LOCAL TALC RICH ZONES-FO	50

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				TO BECOMING MORE MASSIVE DOWNHOLE-LO WER CT SHARP BUT UNDULATING (FLOW,CT)-LOCAL QTZ FELDSPAR VEINS-MT 1-2%	
335.2	1.7	UM		TYPE C-SEVERAL SMALL PRISMATIC OLIVI NES IN A MG TALCOSE,GREY MATRIX-LOWE R CT SHARP (FLOW CT)-MT 1-2%	
336.6	1.4	UM		TYPE C-AS TO 335.2 BUT OLIVINES LARG ER-LOWER CT SHARP-MT 1-2%	
339.6	3.0	UM		TYPE C-PRISMATIC OLIVINES-MT 1%	
				338.9-2 INCH CLOT MASSIVE CLIVINES	
339.8	0.2	UM		TYPE A-SERPENTINIZED-MT 1%	
340.4	0.6	UM		TYPE C-SRPD-MT 1%	
340.6	0.2	QTZ		VEIN-FG-WHITE MASSIVE-(QTE)-UPPER CT IRREGULAR-LOWER CT LOST DUE TO BR OKEN CORE	
341.4	0.8	UM		VARIETY TYPE B & C-SRPD-MT 2-3%	
341.5	0.1	UM		TYPE A-SRPD-MT 2-3%	
342.3	0.8	UM		AS TO 341.4-SRPD-MT 2-3%	
342.5	0.2	UM		TYPE A-SRPD-MT 2-3%	
343.7	1.2	UM		TYPE C-SRPD-343.0 TO 343.5-LARGER PR ISMATIC OLIVINES-MT 2-3%	
344.3	0.6	UM		TYPE A-SRPD-MT 2-3%	
346.0	1.7	UM		TYPE C-SRPD-MT 2-3%	
346.6	0.6	UM		TYPE A-SRPD-MT 2-3%	
347.1	0.5	UM		TYPE C-SRPD-MT 2-3%	
347.5	0.4	UM		TYPE A-SRPD-MT 2-3%	
348.5	1.0	UM		TYPE C-SRPD-LOCAL NON-SRPD ZONE-MT 2-3%	
348.8	0.3	UM		TYPE A-SRPD-MT 2-3%	
350.9	2.1	UM		TYPE C-SRPD-MT 2-3%	
351.2	0.3	UM		TYPE A-MT 2-3%	
353.0	1.8	UM		TYPE C-MT 2-3%	
353.3	0.3	UM		TYPE A-MT 2-3%	
353.4	0.1	UM		TYPE C-MT 2-3%	
353.7	0.3	QTE		FG LIGHT GREY-SHARP CTS AT 80	
354.0	0.3	UM		AS TO 341.4-MT 2-3%	
354.2	0.2	UM		TYPE A-MT 2-3%	
356.1	1.9	UM		AS TO 341.4-MT 1-2%	
358.1	2.0	UM		TYPE A-MT 2-3%	
359.1	1.0	UM		AS TO 341.4-MT 2-3%	
360.6	1.5	UM		TYPE C-HUSKY TABLETS-MT 2-3%	
361.1	0.5	UM		AS TO 333.5 WITH 50% CG QTZ FELDSPAR PEGMATITE INTRUSIONS-MT 1%	
361.5	0.4	UM		VARIETY TYPE B-MT 2-3%	
362.1	0.6	UM		FG-GREY-MASSIVE WITH 60-70% CG QTZ F ELDSPAR INTRUSIONS	
363.8	1.7	UM		UM-FG-GREY-MASSIVE-TALCOSE-MT 3-4%	
365.8	2.0	UM		TYPE B-HUSKY TABLETS BECOMING SMALLE R & PRISMATIC DOWNHOLE-MT 1-2%	
366.4	0.6	UM		AS TO 363.8-MT 1-2%	
369.1	2.7	UM		AS TO 341.4-MT 1-2%	
372.4	3.3	UM		TYPE C-LARGE HUSKY TABLETS CLIVINE-M T 1-2%	
374.0	1.6	UM		TYPE C-SMALLER PRISMATIC CLIVINES-LO WER UNDULATING CT AT 10-MT 1-2%	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
379.3	5.3		UM	TYPE C-MT 1-2%	
379.8	0.5		UM	EQUIGRANULAR ALTERED OLIVINES-CG-GREY WITH OCCASIONAL EQUANT BLACK CLIVINES-VARIETY OF TYPE C-MT 1-2%	
380.0	0.2		UM	TYPE C-MT 1-2%	
380.4	0.4		UM	AS TO 379.8	
382.5	2.1		UM	TYPE B-MT 1-2%	
382.8	0.3		UM	TYPE A-MT 1-2%	
383.0	0.2		UM	TYPE B-MT 1-2%	
383.7	0.7		UM	TYPE C-OCCASIONAL HUSKY TABLET CLIVINE-MT 1-2%	
384.1	0.4		UM	TYPE C-PRISMATIC OLIVINES-MT 1-2%	
384.7	0.6		UM	AS TO 379.6-MT 1-2%	
398.3	13.6		UM	TYPE C-VARIATION IN SIZE OF PRISMATIC OLIVINES-FLOW CTS AT 386.3,387.9 390.6,390.7,391.1,391.5,392.0,394.2, 396.6,398.1-MT 1-2%	
398.4	0.1		UM	TYPE A-MT 1-2%	
401.5	3.1		UM	TYPE C-MT 1-2%	
402.2	0.7		UM	TYPE A-MT 1-2%	
403.2	1.0		UM	TYPE C-OCCASIONAL LARGE PRISMATIC OLIVINES DECREASING IN SIZE & DENSITY DOWNHOLE-LOWER CT UNDULATING (FLOW) MT 1-2%	
406.5	3.3		UM	FG-GREY-MASSIVE-TALCOSE-FLOW CT AT 403.8	
408.1	1.6		UM	TYPE C-OCCASIONAL PRISMATIC & HUSKY OLIVINES-MT 1-2%	
409.5	1.4		UM	AS TO 406.5 BUT COARSER GRAINED-LOWER CT SHARP	
412.3	2.8		UM	TYPE C-AS TO 408.1-MT 1-2%	
413.3	1.0		UM	AS TO 406.5-MT 1-2%	
413.6	0.3		UM	TREMOLITE SUNS IN FG GREY MATRIX-NON MAGNETIC	
414.0	0.4		UM	ALTERED CT-FG-DK GREEN-CHLORITE & AMPHIBOLE (ACTINOLITE) 95%-MT CUBES 5-6%-LOWER CT SHARP AT 60	
417.5	3.5		DIA	META-ALTERED (METASEDIMENT)-FG TO MG-GREY GREEN-MASSIVE-MINOR AMPHIBOLE-MICA 10-15%-UNIFORM THROUGHOUT-SPKS PY 1%	
418.9	1.4		UM	AS TO 414.0-TREMOLITE SUNS AT LOWER CT-MT 2-3%	
419.1	0.2		UM	AS TO 413.6-MT 1-2%	
421.7	2.6		UM	AS TO 406.5-LOCAL TALC VEIN	
425.5	3.8		UM	VARIETY TYPE C-INDISTINCT DARKER GREY EQUANT OLIVINES-FG GREY TALCOSE MATRIX-MT 1-2%	
428.5	3.0		UM	AS TO 406.5-NUMEROUS LOCAL TALC VEINS-MT 1-2%	
428.6	0.1		UM	AS TO 406.5 BUT VFG DK GREY-MT 1-2%	
429.8	1.2		UM	AS TO 406.5-MT 1-2%	
429.9	0.1		UM	AS TO 413.6-MT 1-2%	
432.6	2.7		UM	AS TO 414.0-MT CUBES 2-3% UP TO 0.1 INCH	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
452.9	20.3		DIA	META-FG AT CTS BECOMING CG AT CENTRE OF UNIT-GREY GREEN-AMPHIBOLE & FELDS PAR RICH-MASSIVE-SPKS PY 1%-LOWER C T SHARP,AT 70	
462.0	9.1		QTE	(ARKOSE)-FELDSPATHIC-MICACEOUS-LIGH T GREY-INDISTINCT PORPHYRITIC APPEAR ANCE-FG MG-SPKS PY 1%-OCCASIONAL SPK PO-WEAKLY FOTD-LOWER CT SHARP AT 60 UNIFORM THROUGHOUT	60
462.2	0.2		ARK	FG-MEDIUM GREY-MICACEOUS-LOWER CT SH ARP AT 60-SPKS PO PY-WELL DEVELOPED ARSENOPYRITE GRAINS 1%	
482.0	19.8		DIA	META-AS TO 452.9-FOTD 60 TO 40 DOWNH OLE-LOWER CT SHARP-SEVERAL BIOTITIC ZONES NEAR BOTTOM OF UNIT	60
485.2	3.2		UM	AS TO 414.0-LOCAL BNDS TREMOLITE SUN S AS TO 413.6-MT 1-2%	
486.0	0.8		UM	100% TALC-TURQUOISE-FG	
486.6	0.6		UM	HIGHLY TALCOSE WITH LOCAL BNDS BLACK OLIVINES SIMILAR TO UM TYPE A-MT 1-2 %-FOTD WEAKLY	60
489.3	2.7		UM	HIGHLY TALCOSE-TURQUOISE GREY	80
489.6	0.3		UM	AS TO 413.6-MT 2-3%	
489.9	0.3		UM	TYPE C-SMALL EQUANT OLIVINES IN A FG GREY TALCOSE MATRIX	
507.9	18.0		UM	TYPE A-HIGHLY SRPD-GREEN BLACK-MASSI VE-MT 2-3%-LOCAL QTZ CARBONATE VEIN 489.9 TO 498.0	
511.1	3.2		UM	AS TO 507.9 BUT WEAKLY SRPD-MT 2-3%	
511.6	0.5		QTZ	VEIN-WHITE MASSIVE	
512.1	0.5		UM	AS TO 507.9 BUT VERY HIGHLY SRPD	
513.3	1.2		UM	AS TO 511.1 BUT SLIGHTLY SRPD-LOCAL QTZ FELDSPAR VEINS-MT 2-3%	
513.6	0.3		UM	AS TO 512.1-MT 2-3%	
518.3	4.7		UM	AS TO 511.1-MT 2-3%	
519.3	1.0		UM	AS TO 406.5 BECOMING WEAKLY SRPD DOW NHOLE-MT 1-2%	
519.6	0.3		UM	AS TO 414.0-NON-MAGNETIC	
526.4	6.8		DIA	META-AS TO 417.5-FINER GRAINED AT CT S-WEAKLY MAGNETIC PO 1%	
527.0	0.6		VOLC	AS TO 197.5	
535.4	8.4		DIA	META-AS TO 452.9-LOCAL BNDS DIOPSIDE SKARN	
537.4	2.0		GWKE	META-META-ARKOSE-INTERBANDED WELL FO TO METAGWKE-FG TO MG GREY GREEN WITH BIOTITE AMPHIBOLE FELDSPAR (LOCALLY AMPHIBOLITIC) & META-ARKOSE-FG-GREY QTZ FELDSPAR-MINOR MICA TREMOLITE AN THOPHYLLITE IN VARYING PORPORTIONS	
537.8	0.4		GWKE	META-POSSIBLE ALTERED UM-AMPHIBOLITE CG-TREMOLITE-ACTINOLITE HORNBLENDE 75%-MINOR MICA CHLORITE FELDSPAR-WEA KLY FOTD-MT 1-2%	65
540.2	2.4		GWKE	META-SIMILAR AS TO 537.8 BUT FINER GRAINED-AMPHIBOLE 50%-MT 1-2%-SPKS	65

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				PO PY 1%-WEAKLY FOTD	
541.0	0.8		GWKE	META-AS TO 537.8 BUT VCG-AMPHIBOLE 75-80%-WEAKLY FOTD-MT 1%	50
541.6	0.6		GWKE	META-META-ARKOSE (MAINLY) AS TO 537.4 WITH 50% DIOPSIDE SKARN	
543.0	1.4		SKN	DIOPSIDE-CG-GREEN-DIOPSIDE RICH WITH MINOR QTZ CALCITE	
547.2	4.2		UM	AS TO 406.5-WEAKLY FOTD-MT 2-3%	65
549.9	2.7		SKN	AS TO 543.0	
550.0	0.1		UM	AS TO 547.2-MT 1-2%	
555.8	5.8		UM	AS TO 547.2-BUT 50% DIOPSIDE SKARN MT 1-2%	
558.5	2.7		GWKE	META-AS TO 537.8-BANDED (VARIATION IN AMPHIBOLE %)-LOCAL GARNETS-MT 1-2 % THROUGHOUT	
558.6	0.1		UM	AS TO 547.2-MT 1-2%	
559.2	0.6		GWKE	META-AS TO 537.8	
564.1	4.9		UM	AS TO 547.2 BUT WELL FOTD WITH AMPHIBOLE UP TO 25%-MT 2-3% INTERBANDED WITH METAGWKE ZONES AS TO 537.8 (LOCAL GARNETS)-LOWER CT SHARP-LOCAL CLOTS PY 1%	70
570.0	5.9		UM	AS TO 547.2-MT 1-2%-WEAKLY FOTD	70
584.4	14.4		UM	AS TO 547.2 WITH DIOPSIDE SKN 60% & LOCAL HIGHLY AMPHIBOLITIC CHLORITIC ZONES-MT 1-2% THROUGHOUT-LOWER CT SHARP AT 55	
586.8	2.4	MVVW	CONG	MEDIUM GREY ELONGATED TO ROUNDED QTZ PEBBLES AT 70 DEGREES,0.1 TO 1.2 INCHES LONG,75-80% DENSITY LOCALLY WELL DEFINED TO INDISTINCT WITH WELL DEVELOPED BIOTITE CHLORITE SELVAGES-SPKS CLOTS PY IN MATRIX UP TO 10-12% IN SOME UNITS DOWNHOLE WITH LOCAL CLOTS CP IN MORE RADIOACTIVE ZONES-HIGHEST RADIOACTIVITY IN ZONES WITH HIGHEST PEBBLE DENSITY & HIGHEST % SULPHIDES 22-30 CPS-585-3 IS 46-60 CPS	
587.2	0.4	MVW	CONG	AS TO 586.8-85 TO 105 CPS	
587.6	0.4	MVVW	CONG	AS TO 586.8-11 TO 28 CPS	
588.6	1.0	MVW	CONG	AS TO 586.8-44 TO 50 CPS AT 587.7 & 64 TO 76 CPS AT 588.3	
589.4	0.8	MVW	CONG	AS TO 586.8-CLOTS CP 3-4%-SPKS CLOTS PY 8-10%-125 TO 145 CPS AT CTS TO 210 TO 235 CPS AT 588.9	
590.0	0.6	MVW	CONG	AS TO 586.8-40 TO 60 CPS	
591.2	1.2	MVVW	CONG	AS TO 586.8-11 TO 28 CPS	
594.6	3.4	MVVW	QTE	FG-GREY CHLORITE MICA 10-15% AS BNDS TO & INTERSTITIAL-FOTD WEAKLY-SPKS PY 1%	
595.5	0.9	MVVW	QTE	FG-LIGHT GREY-SERICITIC-SPKS PY 1%	
596.6	1.1	MVVW	CONG	AS TO 586.8-20 TO 37 CPS	
598.0	1.4	MVW	CONG	AS TO 586.8-52 TO 84 CPS	
599.6	1.6	MVW	CONG	AS TO 586.8-88 TO 100 CPS AT 598.2 & DECREASING TO 44-60 CPS AT 599.4	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
601.6	2.0	MVW	CONG	AS TO 586.8-48 TO 70 CPS	
602.1	0.5	MVVW	CONG	AS TO 586.8-18 TO 27 CPS	
605.0	2.9	MVVW	CONG	FG GREY-15 TO 20% MICA CHLORITE-WEAK LY FOTO-SPKS PY 1%-11 TO 19 CPS AT 602.3 INCREASING TO 48-56 CPS AT 604.6	65
606.6	1.6	MVW	CONG	AS TO 586.8-52-60 CPS AT 605.2 TO 70-90 CPS AT 606.2	
607.2	0.6	MVW	CONG	AS TO 586.8 BUT PY 7-8%-360 TO 400 CPS AT 606.7 & 230-260 CPS AT 607.0	
610.2	3.0	MVW	CONG	AS TO 586.8 BUT PEBBLES 60-65%-64 TO 78 CPS AT 607.5 & 72 TO 94 CPS AT 609.4	
611.2	1.0	MVW	CONG	AS TO 586.8 BUT PEBBLES 80-85%-SPKS PY 7-8%-130 TO 135 CPS AT 610.4,750 TO 780 CPS AT 610.6 & 100 TO 120 CPS AT 611.0	
615.7	4.5	MVW	CONG	AS TO 586.8-18 TO 28 CPS,32 TO 44 CPS AT 614.7	
617.1	1.4	MVW	CONG	AS TO 586.8 BUT PEBBLE DENSITY DECREASES DOWNHOLE TO 25%-52 TO 64 CPS-70 TO 88 CPS AT 616.0	
619.8	2.7	MVVW	QTE	AS TO 605.0-SPKS PY 1%-18 TO 30 CPS	
620.8	1.0	MVW	QTE	AS TO 605.0 BUT OCCASIONAL ELONGATED QTZ PEBBLES (25%) DECREASING IN DENSITY DOWNHOLE-SPKS PY 1-2%-44 TO 62 CPS	
621.7	0.9	MVW	CONG	AS TO 586.8-SPKS CLOTS PY 7-8%-135 TO 150 CPS AT 621.0,260 TO 285 CPS AT 621.6	
622.3	0.6	MVVW	QTE	AS TO 620.8-44-62 CPS	
623.1	0.8	MVW	CONG	AS TO 586.8-SPKS PY 7-8%-250 TO 280 CPS TO 82-96 CPS DOWNHOLE	
628.1	5.0	MVVW	QTE	AS TO 605.0 BUT WITH LOCAL ZONES ELONGATED QTZ PEBBLES 25% (28-40 CPS) SPKS PY 1%-11 TO 22 CPS	
638.8	10.7	MVVW	QTE	PEBBLY-AS TO 605.0 BUT WITH LOCAL ZONES LESS MAFIC,OCCASIONAL PEBBLES,MASSIVE TO WEAKLY FOTO-LOCALLY SERICITIC-SPKS PY 1%-9 TO 22 CPS	65
639.4	0.6	MVW	CONG	AS TO 586.8 BUT 50% PEBBLES-SPKS PY 5-6%-22-27 CPS	
641.4	2.0	MVW	QTE	AS TO 638.8-WEAKLY FOTO-SPKS PY 1-2%	65
642.2	0.8	MVW	CONG	AS TO 639.4-SPKS PY 2-3%-17-22 CPS	
643.0	0.8	MVW	QTE	AS TO 638.8-SPKS PY 1-2%-11 TO 17 CPS	
643.7	0.7	MVW	CONG	AS TO 639.4-SPKS PY 3-4%-26-38 CPS	
644.1	0.4	MVW	QTE	AS TO 638.8-SPKS PY 1%	
645.4	1.3	MVW	CONG	AS TO 639.4-SPKS PY 2-3%-17-22 CPS	
646.3	0.9	MVW	QTE	AS TO 638.8-SPKS PY 1%	
647.3	1.0	MVW	CONG	AS TO 639.4-SPKS PY 1-2%-17-22 CPS	
647.7	0.4	MVW	QTE	AS TO 638.8-SPKS PY 1%	
648.4	0.7	MVW	CONG	AS TO 639.4-SPKS PY 1%	
653.0	4.6	MVW	QTE	AS TO 638.8-SPKS PY 1%	
653.3	0.3	MVW	CONG	AS TO 586.8-SPKS PY 2-3%-160-195 CPS	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
653.6	0.3	MVW	QTE	AS TO 638.8-SPKS PY 1%	
653.8	0.2	MVW	CONG	AS TO 586.8-SPKS PY 2-3%-32-40 CPS	
655.5	1.7	MVW	QTE	AS TO 638.8-SPKS PY 1%-17-22 CPS	
656.6	1.1	MVW	CONG	AS TO 639.4-SPKS PY 1-2%-48-58 CPS AT 655.7 TO 22-29 CPS AT 656.5	
660.9	4.3	MVW	QTE	AS TO 638.8-SPKS PY 1%-9-22 CPS	
675.8	14.9		GWKE	META-META-ARKOSE-AS TO 537.4 BUT LOCAL GARNET ZONES-ARKOSE MINOR-666.2 TO 671.2-META-ARKOSE-WEAKLY MAGNETIC PO 1-2%-SPKS PY 1%	75
689.7	13.9		GWKE	FG-MG-GREY GREEN-40% AMPHIBCLE-40% FELDSPAR-10-15% MICA-META-DIABASE APPEARANCE-WEAKLY FOTD	70
699.3	9.6		QTE	AS TO 638.8 WITH LOCAL BNDS METAGWKE AS TO 689.7-OCCASIONAL SPKS PY-698.2 -2 INCH DIOPSIDE SKARN	
700.8	1.5		SKN	DIOPSIDE-AS TO 543.0	
707.8	7.0		QTE	AS TO 699.3	
708.7	0.9		GWKE	META-AS TO 675.8-LOWER CT SHARP	75
712.6	3.9	MVW	RHY	PORPHYRITIC-AS TO 213.6 BLT NOT PINKISH-SPKS PY 1-2%	
731.3	18.7		DIA	META-AS TO 452.9 BUT CG-MASSIVE 728.0-731.3-BECOMING FG DOWNHCLE & FOTD-MINOR BIOTITE	60
738.5	7.2	MVVW	QTE	AS TO 638.8-SPKS PY 1%-9-28 CPS	
739.2	0.7	MVW	CONG	AS TO 586.8-SPKS PY 1-2%-86-100 CPS AT 738.6-170-190 CPS AT 738.9	
740.8	1.6	MVVW	QTE	AS TO 638.8-SPKS PY 1%-BROKEN CORE	
750.0	9.2		LC	GROUND CORE	
753.7	3.7	MVVW	QTE	AS TO 638.8-SPKS PY 1%	
754.0	0.3	MVW	CONG	AS TO 639.4-SPKS CP PY PO 7-8%-42 TO 56 CPS	
754.4	0.4	MVVW	QTE	FG-MG-LIGHT GREY-GRANULAR-5% SERICITE CHLORITE MICA-BNDD & INTERSTITIAL TO QTZ GRAINS-SPKS PY 1%	
761.8	7.4	MVVW	QTE	AS TO 754.4 BUT MORE MAFIC-15 TO 20% -SPKS PY 1%-11 TO 17 CPS	
762.5	0.7	MVW	CONG	AS TO 754.4 BUT MAFICS 20-25%-SPKS PY 2-3%-135 TO 160 CPS	
768.2	5.7	MVVW	QTE	AS TO 754.4-SPKS PY 1%	
769.8	1.6	MW	CONG	AS TO 639.4-SPKS CLOTS PO 7-8% CP 1-2%-PY 2-3%-44 TO 60 CPS	
771.0	1.2	MVW	QTE	AS TO 638.8-SPKS PY PO 1-2%-17 TO 22 CPS	
773.7	2.7	MVW	QTE	AS TO 638.8-SPKS PY PO 2-3%-68-76 CPS AT 771.3,38-50 CPS AT 771.7,82.96 CPS AT 772.0,32-56 CPS AT 773.6	
778.7	5.0	MVVW	QTE	AS TO 761.8-SPKS PY PO 1%-17-20 CPS	
780.7	2.0	MVW	QTE	AS TO 761.8-STRS SPKS PY PO CP 3-4%	
782.1	1.4		QTE	AS TO 754.4 BUT 10% MAFICS (SERICITIC)	70
782.9	0.8		QTE	AS TO 761.8-SPKS PO PY 1%	70
791.7	8.8		QTE	AS TO 782.1	70
792.6	0.9	MVW	QTE	AS TO 761.8 BUT CG-SPKS PO PY CP 2-3 PERCENT	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
798.9	6.3		QTE	AS TO 754.4 BECOMING LESS MAFIC (1-2 %) & MORE SERICITIC DOWNHOLE-LOWER CT SHARP	
800.2	1.3		QTE	FG-GREY-25-30%-BNDS MICA CHLORITE AT 70 70-LOWER CT SHARP 70	
812.0	11.8		QTE	AS TO 761.8 WITH LOCAL QTZ VEINS-LES S MAFIC BNDS-FOTD 70 TO 6/ DOWNHOLE	
814.1	2.1		QTE	FG-GREY WITH NUMEROUS QTZ FELDSPAR POPHYRIES ( ) OR CLASTS DECREASING IN % DOWNHOLE-FG DK GREY CHLORITE MI CA MATRIX-POSSIBLE PORPHYRITIC RHYOD ACITE	
814.9	0.8		QTE	AS TO 761.8 WITH LOCAL VOLCANIC BNDS LOWER CT SHARP AT 70	
835.4	20.5		VOLC	AS TO 197.5 WITH LOCAL CALCITE RICH ZONES (FG DIOPSIDE SKARN)-LOWER CT SHARP	
882.5	47.1		DIA	META-AS TO 452.9-LOCAL QTZ VEINS,DIO PSIDE SKN	
887.5	5.0		MTSD	FG-GREY GREEN-TREMOLITE ANTHOPHYLLIT E ACTINOLITE MICA & MINOR FELDSPAR QTZ-25% DIOPSIDE SKARN BNDS	
893.0	5.5		GWKE	META-AMPHIBOLITIC-FG-DARK GREEN-AMPH IBOLE 85-90%-BIOTITE 5-10%-SPKS PO PY CP 1%	
894.5	1.5		QTE	AS TO 761.8	
895.0	0.5		SKN	DIOPSIDE-AS TO 543.0	
899.7	4.7		QTE	AS TO 761.8 WITH LOCAL QTZ VEINS & LESS MAFIC BNDS-38-46 CPS AT 897.0	70
906.5	6.8		QTE	AS TO 782.1	70
912.0	5.5		GWKE	META-AS TO 689.7-911.6-1 INCH QTE BAND	70
926.9	14.9		QTE	SIMILAR AS TO 754.4-FG-MG-LIGHT GREY TO WHITE-GRANULAR-OCCASIONAL QTZ GRI TS-MICA CHLORITE SERICITE 5%-LOCAL LESS MAFIC BNDS-ZONES SPKS PY PO 1%	70
928.0	1.1		QTE	AS TO 926.9 BUT MAFICS 10-15%	
935.5	7.5		QTE	AS TO 926.9-SPKS PY PO 1%	70
942.7	7.2		QTE	AS TO 928.0-SPKS PY PO 1%	70
949.4	6.7		QTE	AS TO 926.9 BECOMING LESS MAFIC DOWN HOLE MORE SERICITIC DOWNHOLE-LOWER CT SHARP AT 70-SPKS PY PO 1%	70
954.5	5.1		QTE	AS TO 928.0-LOWER CT SHARP-SPKS PY PO 1%	70
955.0	0.5		QTE	PEBBLY-AS TO 636.8-SPKS PY PO 3-4% 22-28 CPS	70
957.5	2.5		QTE	AS TO 928.0-SPKS PY 1%	70
979.6	22.1		GWKE	META-AS TO 689.7-LOCAL GARNETS-AMPHI BOLE RICH ZONES-QTZ VEINS META-ARKOS E BNDS AS TO 537.4-FOTD 70 AT 568.2, 60 AT 971.0, 75 AT 979.0 979.3-979.6-CG AMPHIBOLE BIOTITE RIC H ZONE	
987.3	7.7		QTE	AS TO 926.9-FOTD 70-80-SPKS PY 1%	80
988.4	1.1		QTE	FG-GREY-NUMEROUS (15-20%) MICA CHLOR	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				ITE BNDS-WELL FOTD-LOCAL BCUDINAGED QTZ VEIN (ELONGATED PEBBLE)	
988.9	0.5		QTE	AS TO 754.4	
989.8	0.9		QTE	AS TO 988.4	70
1000.5	10.7		QTE	AS TO 761.8-MINOR BND FUCHSITE-LOCAL IRREGULAR DEPOSTIONAL CTS-SPKS PY PO 1%	80
1001.2	0.7		QTE	QTZ-CALCITE-FG-MG-GREY-IRREGULAR INTERBNADED UNDULATING DEPOSITIONAL DK GREEN BLACK MICA CHLORITE BNDS & STRS-SHARP CTS	
1001.4	0.2		QTE	AS TO 761.8	
1002.0	0.6		QTE	AS TO 754.4	
1007.8	5.8		QTE	AS TO 761.8-SPKS PY 1%	80
1008.9	1.1		GWKE	META-AS TO 689.7-LOWER CT SHARP AT 80-WEAKLY FOTD-SPKS PY 1%	80
1011.0	2.1		QTE	AS TO 761.8-SPKS PY 1%	80
1011.6	0.6		QTE	FG-GREY-MICA CHLORITE 25-30%-WEAKLY FOTD-SPKS PY PO 1%	
1013.0	1.4		QTE	AS TO 782.1	80
1013.6	0.6		QTE	AS TO 1011.6	80
1017.0	3.4		QTE	AS TO 949.4	
1017.7	0.7		QTE	AS TO 928.0	
1019.3	1.6		QTE	AS TO 761.8	
1019.8	0.5		QTE	AS TO 754.4	
1020.4	0.6		QTE	AS TO 1011.6	
1020.9	0.5		QTE	AS TO 782.1	
1021.2	0.3		QTE	AS TO 1011.6	
1021.6	0.4		QTE	AS TO 782.1	
1021.9	0.3		QTE	AS TO 1011.6	
1023.2	1.3		QTE	AS TO 761.8	
1025.1	1.9		GWKE	META-AS TO 689.2	70
1028.1	3.0		RDCT	ARKOSE -FG-DK GREY-5-10% QTZ FELDSPAR PORPHYRIES-POORLY DEVELOPED (0.1 INCHES)-LOCAL QTZ RICH BNDS (QTE) WITH FIBROUS AMPHIBOLE-SIMILAR AS TO 875.7 OF BH 55317-LOWER CT SHARP	
1028.4	0.3		QTE	AS TO 928.0-LOWER CT SHARP 55	
1036.1	7.7		GWKE	META-AS TO 689.7-LOCAL AMPHIBOLE RICH BNDS (TREMOLITE-ACTINOLITE) & BIOTITE RICH BNDS	65
1037.4	1.3		QTE	AS TO 926.9	
1038.0	0.6		QTZ	VEIN-WHITE-MASSIVE	
1038.3	0.3		QTE	AS TO 928.0	
1038.8	0.5		QTE	AS TO 754.4	
1040.7	1.9		QTE	AS TO 926.9	
1041.9	1.2		RDCT	AS TO 1028.1	
1045.7	3.8		RDCT	PORPHYRITIC-LIGHT GREY-QTZ FELDSPAR PORPHYRIES (50%) UP TO 0.2 INCHES IN FG DK GREY QTZ FELDSPAR MICA MATRIX SPKS PY PO 1%	
1047.1	1.4		RDCT	AS TO 1028.1	
1056.6	9.5		GWKE	META-META-ARKOSE-AS TO 537.4 BUT LOCAL GARNET BNDS-STRONGLY FOTC	70
1057.9	1.3		RDCT	AS TO 1028.1	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
1058.6	0.7		RDCT	AS TO 1045.7	
1059.4	0.8		RDCT	AS TO 1028.1	
1060.4	1.0		QTZ	VEIN-WHITE MASSIVE-IRREGULAR CTS	
1061.5	1.1		RDCT	AS TO 1028.1	
1062.0	0.5		QTE	FG-DK GREY-5% MICA CHLORITE-WEAKLY FOTD-SHARP CTS	70
1062.3	0.3		RDCT	AS TO 1028.1	
1062.6	0.3		QTE	AS TO 1062.0	
1062.7	0.1		RDCT	AS TO 1028.1	
1062.9	0.2		QTE	AS TO 1062.0	
1064.5	1.6		QTE	AS TO 761.8	70
1065.5	1.0		RDCT	AS TO 1028.1-GRADES INTO FOLLOWING UNIT	
1069.0	3.5		RDCT	AS TO 1045.7 BUT PORPHYRIES 35-40% WEAKLY FOTD	70
1069.6	0.6		RDCT	AS TO 1028.1	
1071.7	2.1		QTE	AS TO 761.8	
1072.1	0.4		QTE	AS TO 754.4	
1072.6	0.5		RDCT	AS TO 1028.1	
1080.1	7.5		QTE	PURE-WHITE-SLIGHTLY YELLOW-SERICITIC WITH LOCAL BNDS (BEDS)-MAFICS 10-15% BIOTITE CHLORITE-BEDDED	70
1081.9	1.8		RDCT	AS TO 1028.1	
1100.8	18.9		QTE	AS TO 1080.1-1097.1-TRACE FLOWSITE	70
1102.4	1.6		QTE	AS TO 761.8	70
1105.0	2.6		QTE	AS TO 754.4	
1106.2	1.2		QTE	AS TO 761.8	
1114.7	8.5		GWKE	META-META-ARKOSE-AS TO 537.4-LOCAL ZONES DIOPSIDE SKARN	70
1116.1	1.4		QTE	AS TO 1062.0	
1119.0	2.9		GWKE	META-AS TO 689.7	
1121.5	2.5		GWKE	META-AS TO 537.8-50% DIOPSIDE SKARN LOCAL ZONES FINER GRAINED-MT CUBES 3-4%	
1122.6	1.1		ARK	META-FG GREY-MINOR TREMOLITE	
1125.9	3.3		GWKE	META-AS TO 689.7-15-20% DIOPSIDE SKN	
1128.3	2.4		GWKE	AS TO 537.8-50% DIOPSIDE SKARN 1126.4-1127.4-MT 10-12% STRONGLY MAGNETIC-(LAMINATED CONTORTED ZONE-POSSIBLE SLUMPING OR FLOW FEATURE)	
1151.2	22.9		QTE	AS TO 754.4 WITH BEDS AS TO 1080.1 & BANDS (BEDS) 25-30% AS TO 761.8	70
1153.2	2.0		QTE	AS TO 928.0	
1154.1	0.9		QTZ	VEIN-WHITE-MASSIVE	
1155.7	1.6		QTE	AS TO 928.0	
1162.3	6.6		QTE	AS TO 782.1 BECOMING LESS MAFIC DOWN HOLE	
1163.7	1.4		QTE	AS TO 928.0	
1164.8	1.1		GWKE	META-AS TO 893.0	
1166.6	1.8		RDCT	AS TO 1045.7	
1169.5	2.9		LC	GROUND CORE	
1170.8	1.3		GWKE	META-META-ARKOSE-TREMOLITE ANTHOPHYLLITE RICH ZONES	60
1174.1	3.3		RDCT	AS TO 1045.7	60
1176.2	2.1		GWKE	META-AS TO 893/0	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
1177.9	1.7		RDCT	AS TO 1028.1	
1178.3	0.4		GWKE	META-AS TO 893.0	
1187.7	9.4		RDCT	AS TO 1028.1-PORPHYRIES INCREASING TO 10-15% TO 1186.1 & DECREASING TO END OF UNIT	80
1188.0	0.3		GWKE	META-AS TO 893.0	80
1190.2	2.2		ARK	META-SIMILAR AS TO 1122.6 & SIMILAR AS TO 1028.1 BUT NON-PORPHYRITIC & UNIFORM THROUGHOUT	
1191.0	0.8		GWKE	AS TO 893.0 FOOT OF HOLE	80

SPECTROMETER READING WITH SCINTREX
GIS-3 NUMBER 905 107
THIN SECTIONS AT 32.6 36.0 69.3
202.1 379.6 416.9
458.7 1027.4 1189.3

BOREHOLE RECORD

DATE PROCESSED APR 01,1974

CHK'D.....

BOREHOLE#	PROPERTY	NTS#	SH#	ANOM#	DEPTH	AZIMUTH	DIP	LATITUDE	DEPARTURE	ELEVATION	LEVEL
55323-0	SAKAMI PROJECT	33F 2W			700	180 00	-45 00	S 650	W 12400		DATE.....

INCLINATION AND TROPARI TESTS

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP
100		-38 30	200		-26 30	300		-24 00	400		-23 00	500		-19 00
600		-12 30	620		-11 30									

TOPS OF WEDGES

LOGGED BY..DEBICKI E J STARTED..JULY 04,1973 COMPLETED..JULY 12,1973

COMMENTS

DRILLED INSPIRATION BES 1-AQ CORE-PERMIT 547-ZONE 3
15 FEET AW CASING & CASING SHOE 70715 LEFT IN HOLE

SAMPLE ENTRIES

DEPTH	LENGTH	MNZN	RCCK	DESCRIPTION	ANG
0.0	0.0			COLLAR	
26.0	26.0			OVERBURDEN-SAND & BOULDERS-AW CASING TO 28.0-START OF CORE	
31.5	5.5		GWKE	META-AMPHIBOLITE-INTERLAYERED MINOR MAFIC VOLCANIC BNDS-FG-DK GREEN-AMPHIBOLE 75%-LOCAL BNDS (BEDS) BIOTITE UP TO 15-20% (META-ARGILLITE)-MINOR FELDSPAR CHLORITE-LOCAL QTZ CALCITE RICH VEINS-WEAKLY FOTD WITH UNDULATING DEPOSITIONAL BANDING (COMPOSITION VARIATIONS OF BEDDING WITH SHARP TO GRADATIONAL CTS) & MINOR X-BEDDING-SPKS PY 1%	45
31.9	0.4			VOLC ANDESITE-BASALT-FG TO VFG-DK GREEN-AMPHIBOLITIC-MINOR FELDSPAR MICA-WEAKLY FOTD-CTS SHARP AT 45-SPKS PY 1%	45
34.5	2.6		GWKE	META-AS TO 31.5	45
34.9	0.4			VOLC AS TO 31.9	
35.9	1.0		GWKE	META-AS TO 31.5	45
36.3	0.4			VOLC AS TO 31.9	
37.7	1.4		GWKE	META-AS TO 31.5 BUT SLIGHTLY COARSER GRAINED WITH MICA EYES UP TO 0.1 INCH ELONGATED IN PLANES OF FOTN	45
43.4	5.7		GWKE	META-AS TO 31.5	45
47.2	3.8		GWKE	META-AS TO 37.7	45
48.6	1.4		GWKE	META-AS TO 31.5	45
50.3	1.7			VOLC AS TO 31.9-WEAKLY FOTD	
51.1	0.8		GWKE	META-AS TO 37.7	45
51.4	0.3		GWKE	META-AS TO 31.5	45
51.8	0.4			VOLC AS TO 31.9	
52.4	0.6		GWKE	META-AS TO 31.5	45
53.4	1.0			VOLC AS TO 31.9	
57.9	4.5		GWKE	META-AS TO 31.5	45
58.2	0.3			VOLC AS TO 31.9	
59.6	1.4		GWKE	META-AS TO 31.9-LOWER CT SHARP AT 45	45
61.5	1.9		DIA	META-FG MG-GREY GREEN-AMPHIBOLE 50%-FELDSPAR 40%-LOCAL QTZ CALCITE VEINS	45

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				WEAKLY FOTD-LOWER CT JAGGED	
61.9	0.4		VOLC	AS TO 31.9	
67.8	5.9		DIA	META-AS TO 61.5 BECOMING COARSER GRAINED DOWNHOLE	
68.4	0.6		GWKE	META-AS TO 31.5-FOTD 60 AT 67.9 & 30 AT 68.2-CTS SHARP	
72.2	3.8		DIA	META-AS TO 61.5	
72.6	0.4		GWKE	META-AS TO 31.5	45
74.9	2.3		DIA	META-AS TO 61.5 BECOMING FINER GRAINED DOWNHOLE	
75.2	0.3		VOLC	AS TO 31.9	
76.4	1.2		GWKE	META-AS TO 31.5-MINOR BIOTITE RICH BEDS AT 55	55
80.1	3.7		VOLC	AS TO 31.9-LOWER CT SHARP-LOCAL SMALL FAULTS WITH DISPLACEMENT LESS THAN 0.5 INCHES	
83.0	2.9		GWKE	META-AS TO 31.5	50
83.3	0.3		VOLC	AS TO 31.9	
84.9	1.6		GWKE	META-AS TO 31.5	
88.7	3.8		DIA	META-AS TO 61.5-LOWER CT IRREGULAR-1 INCH KNOBBY PROJECTION OF METADIABASE INTO FOLLOWING UNIT	
90.1	1.4		VOLC	AS TO 31.9-UNDULATING FLOW FOTD	
93.7	3.6		DIA	META-AS TO 61.5	
94.4	0.7		GWKE	META-AS TO 31.5	45
110.6	16.2		DIA	META-AS TO 61.5-LOCAL METAGWKE BANDS	
115.7	5.1		VOLC	AS TO 31.9 WITH LOCAL COARSER GRAINED ZONES	
124.7	9.0		GWKE	META-AS TO 31.5 WITH MINOR BNDS CALCITE (SKARN) UP TO 1 INCH PARALLEL TO FOTN & SHARP CTS	45
128.0	3.3		SKN	LIGHT GREY-FG-MG-75% CALCITE-MINOR DIOPSIDE QTZ WITH METAGWKE BANDS	
129.3	1.3		GWKE	META-AS TO 31.5 WITH 50% CALCITE BANDS (SKARN)	
132.2	2.9		GWKE	META-AS TO 35.1 WITH NUMEROUS RICH BANDS (META-ARGILLITE)	60
132.7	0.5		GWKE	META-AS TO 129.3	
140.7	8.0		GWKE	META-AS TO 31.5-SPKS PY CP 1% AT 138.9	60
140.9	0.2		MTSD	MG-CG-GREY BROWN-TREMOLITE ANTHOPHYLLITE MICA RICH-MINOR QTZ FELDSPAR-CTS SHARP	
141.2	0.3		GWKE	META-AS TO 34.5	
143.3	2.1	MVVW	AMPH	POSSIBLE ALTERED UM-VCG-GREEN-FIBROUS UNALIGNED AMPHIBOLE 100%-SPKS PY 1%-MT 1%	
144.0	0.7	MVVW	AMPH	SIMILAR AS TO 143.3 BUT WITH 50% BLACK HORNBLENDE (AFTER PYROXENE)-TWO TYPES AMPHIBOLE-SPKS PY 1%	
144.2	0.2	MVVW	AMPH	AS TO 143.3-SPKS PY 1%	
144.5	0.3	MVW	MTSD	AS TO 140.9 BUT PALE GREEN (MINOR ACTINOLITE)-SPKS PO 4-5%	60
145.9	1.4	MVW	ARK	META-FG MG-GREY BROWN-MICA CHLORITE RICH-SPKS STRS PO PY CP 7-8%-LOWER	60

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				CT SHARP AT 60	
149.0	3.1	MVVW	GWKE	AS TO 31.5-LOCAL DIOPSIDE SKARN BNDS SPKS PY 1%	60
149.3	0.3		SKN	DIOPSIDE-CG-PALE GREEN-DIOPSIDE CALC ITE RICH-MINOR QTZ	
150.3	1.0		GWKE	META-AS TO 31.5-LOWER CT SHARP AT 60	60
151.0	0.7		MTSD	AS TO 140.9	60
154.8	3.8		MTSD	AS TO 140.9 BUT FINE GRAINED & LESS MICACEOUS-FOTD 60-70	
155.2	0.4		MTSD	AS TO 140.9 BUT FINER GRAINED	65
155.5	0.3		MTSD	AS TO 144.5	
156.0	0.5		MTSD	AS TO 155.2	65
156.2	0.2		MTSD	AS TO 155.5	
156.5	0.3		MTSD	AS TO 155.2	
157.5	1.0		MTSD	AS TO 155.5	65
158.8	1.3		VOLC	AS TO 31.9-WEAKLY FOTD	60
161.2	2.4		MTSD	AS TO 154.8	
162.3	1.1		MTSD	AS TO 155.2	
167.7	5.4		ARK	META-FG-GREY-WEAKLY FOTD-MINOR MICA TREMOLITE NEEDLES-LOCAL MINOR AMPHIB OLE ZONES-SPKS PY 1%	60
168.2	0.5		MTSD	AS TO 155.2	60
171.2	3.0		ARK	META-AS TO 167.7	60
174.1	2.9		MTSD	FG-MG-PALE GREEN GREY-TREMOLITE ACTI NOLITE MICA RICH-VERY WEAKLY FOTD	60
175.4	1.3		ARK	META-AS TO 167.7	60
177.3	1.9		MTSD	AS TO 155.5	60
178.3	1.0		MTSD	AS TO 155.2	
183.9	5.6	MVVW	GWKE	META-AS TO 132.2-STRONGLY FOTD (BAND ED)-SPKS PY 1%	60
185.7	1.8	MVW	AMPH	SIMILAR AS TO 144.0 WITH ZONES AS TO 143.3 & MICACEOUS RICH BNDS-SPKS PO CP PY 2-3%-FOTD 35-40	40
190.6	4.9		UM	FG MG-ALTERED PERIDOTITE -LIGHT GREY MASSIVE TALCOSE-MINOR CARBONATE-MT 2-3%	
191.5	0.9		AMPH	SIMILAR AS TO 143.3 BUT VARYING AMOU NTS BIOTITE AS CLOTS & BNDS UP TO 50%-MASSIVE TO WELL FOTD	45
197.2	5.7		ARK	META-MICACEOUS-FG-MEDIUM GREY-MASS	
198.1	0.9		AMPH	AS TO 191.5-FOTD 30-40	
199.4	1.3		AMPH	AS TO 144.0-20% MICA BNDS & LESS BLA CK HORNEBLENDE	55
200.6	1.2		AMPH	AS TO 191.5	
201.2	0.6		AMPH	SIMILAR AS TO 143.3	
203.0	1.8		AMPH	AS TO 191.5	45
205.1	2.1		AMPH	AS TO 191.5 BUT MICA 75% INCREASING TO 100%-FOTD 50-65 DOWNHOLE	
207.8	2.7		AMPH	AS TO 191.5	
212.2	4.4		AMPH	AS TO 143.3-MT 1%	
213.1	0.9	MVW	AMPH	VFG-GREEN-AMPHIBOLE RICH (ALTERATION ZONE)-CALCITE VEINS-SPKS PC 1%-MT 1-2%	
216.8	3.7		AMPH	AS TO 143.3-ZONES MT 2-3%	
218.0	1.2		GWKE	META-AS TO 31.5	50

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
219.5	1.5		AMPH	AS TO 191.5	50
220.0	0.5		AMPH	AS TO 213.1-MT 3-4%	
221.6	1.6		UM	AS TO 190.6-MT 1-2%	
224.7	3.1		DIA	META-AS TO 61.5	40
226.0	1.3		GWKE	META-AS TO 31.5	40
226.4	0.4		AMPH	AS TO 144.0	
232.0	5.6		AMPH	AS TO 143.3-FOTD-ZONES MT 1-2%	45
232.8	0.8		AMPH	AS TO 144.0 BUT 10-15% BLACK HORNBLENDE	
233.3	0.5		GWKE	META-AS TO 31.5	50
233.4	0.1		AMPH	AS TO 144.0	
233.8	0.4		AMPH	AS TO 191.5	
235.7	1.9		AMPH	AS TO 143.3-MT 1-2%-WEAKLY FOTD	50
237.0	1.3		GWKE	META-AS TO 35.1	
244.6	7.6		AMPH	AS TO 143.3-ZONES AS TO 213.1-MT 1-2%	
245.2	0.6		UM	AS TO 190.6-MT 1-2%-SPKS PO 1%	
246.4	1.2		AMPH	AS TO 143.3-MT 1-2%-SPKS PO 1%-NUMEROUS CALCITE CLOTS-LOWER CT UNDULATING (FLOW)	
256.7	10.3		AMPH	SIMILAR AS TO 143.3 BUT DARKER GREEN WITH LOCAL CALCITE CLOST (SKARN)	
257.4	0.7		AMPH	AS TO 191.5	50
271.4	14.0		RDCT	RHYOLITE-PORPHYRITIC-LIGHT BUFF YELLOW GREY-QTZ FELDSPAR PORPHYRIES (30-40%) UP TO 0.3 INCHES-FG-DARKER GREY QTZ FELDSPAR MICA CHLORITE MATRIX-COMPOSITIONAL BANDING WITH DK GREY TO BLACK MICA CHLORITE PARALLEL ENDS WEAKLY FOTD-SPKS PY 1%	65
272.6	1.2		AMPH	AS TO 144.0-10-15% BLACK HORNBLENDE & DARKER GREEN	
272.9	0.3		GWKE	META-AS TO 31.5	
273.4	0.5		AMPH	AS TO 144.0 BUT BLACK HORNBLENDES SMALLER-WEAKLY FOTD	45
273.8	0.4		AMPH	AS TO 272.6	
274.9	1.1		AMPH	CG-DK GREEN-AMPH FIBRES 100%-SPKS PO 1%-MT 1-2%-274.0-2 INCH CALCITE VEIN	
277.5	2.6		GWKE	META-AS TO 31.5-DIABASE APPEARANCE SPKS PY 1%	
277.8	0.3		MTSD	CG-GREEN BROWN-ACTINOLITE & MICA RICH-WELL DEVELOPED BLACK HORNBLENDE-SIMILAR AS TO 144.0	
279.7	1.9	MVVW	GWKE	META-AS TO 31.5-LOCAL BNDS AS TO 140.9-SPKS PY 1%	60
280.9	1.2	MVW	GWKE	META-AS TO 279.7-PO 1-2%-FY CP SPKS 1%	
282.4	1.5	MVW	AMPH	MTSD-VFG-DK GREEN-UNDULATING CONTORTED FOTN-SPKS STRS PO 5-6% SPKS CP 1%-10 TO 12% FINELY LAMINATED CONTORTED BNDS MT-STRONGLY MAGNETIC-GRAPHITE 2-3%	
283.0	0.6	MVVW	AMPH	MG-DK GREEN-50% AMPH NEEDLES-50% INTERSTITIAL BIOTITE-SPKS PO 1%	
287.4	4.4	MVVW	GWKE	META-AS TO 279.7-SPKS PY 1%	60

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
294.0	6.6		GWKE	AS TO 279.7-FOTD 65-75 DOWNHOLE	
296.0	2.0		MTSD	AS TO 140.9-BUT BNDD WITH MICACEOUS BANDS	70
296.7	0.7		GWKE	META-AS TO 279.7	
298.1	1.4	MVVW	AMPH	AS TO 143.3-MT 1%	
299.0	0.9	MVW	AMPH	AS TO 213.1-PO 1-2%	
300.3	1.3	MVVW	AMPH	AS TO 143.3-WEAKLY FOTD-MT 1%	65
300.5	0.2	MVVW	AMPH	AS TO 213.1	
302.1	1.6		GWKE	META-AS TO 31.5 WEAKLY FOTD	65
302.9	0.8		AMPH	AS TO 213.1-GRADES INTO FOLLOWEIN UNIT	
317.1	14.2		UM	AS TO 190.6-MT 2-3%	
332.1	15.0		UM	AS TO 190.6 BUT PALE GREY GREEN (SLLY AMPHIBOLITIC AS TO 143.3 BUT FG)-WEAKLY MAGNETIC ZONES MT 1%	
342.0	9.9		UM	AS TO 332.1	
342.5	0.5		UM	AS TO 332.1-50% BIOTITE BNDS-WELL FOTD-FLOW ( ) CONTORTED-MINOR QTZ VEINING	80
348.4	5.9		UM	AS TO 332.1-MT 1%-LOWER CT SHARP	60
350.8	2.4		QTE	FG-GREY BROWN-BEDDED-25-30% MICA-MINOR CHLORITE PARALLEL BNDS 30-35 TO 55 DEGREES DOWNHOLE-LOCAL 1 INCH METAGWKE BND 351.8	
353.3	2.5		QTE	FG-GREY-GRANULAR-OCCASIONAL QTZ GRITS-CHLORITE 5-10%-351.8-1 INCH METAGWKE BND AS TO 35.1	
353.8	0.5		GWKE	META-AS TO 31.5	
359.4	5.6		AMPH	AS TO 144.0	
359.8	0.4		QTE	FG GREY BROWN WITH 50% MICA MAINLY AS BNDS	60
360.1	0.3		QTE	AS TO 353.8-WEAKLY FOTD-LOWER CT SHARP	60
367.0	6.9		GWKE	META-AS TO 31.5-WEAKLY FOTD 5C AT 361.0,20 AT 366.0-LOWER CT SHARP	30
381.7	14.7		QTE	AS TO 353.3-LOCAL BIOTITIC BNDS & MINOR CHLORITE RICH BNDS-SEVERAL BEDS WITH SHARP UNDULATING DEPOSITION CTS	
382.3	0.6		GWKE	META-AS TO 31.5-LOCAL DIOPSIDE SKN	80
387.7	5.4	MVVW	AMPH	AS TO 143.3-LESS GREEN-MORE TALCOSE DOWNHOLE-MT 1%	
395.2	7.5		UM	AS TO 190.6-TREMOLITE SUNS-MT CUBES 2-3%	
398.3	3.1	MVVW	AMPH	AS TO 143.3 INTERBANDED UM AS TO 190.6-SPKS PO 1-2% MT 1-2%	
398.8	0.5	MVVW	AMPH	AS TO 213.1-MT CUBES 3-4%	
416.4	17.6		QTE	FG-GREY-BNDD (BEDDED)-MICA CHLORITE-LESS MAFIC BNDS-NUMEROUS BEDS-MICA CHLORITE FOTN PLANES-11 TO 20 CPS	70
416.9	0.5		GWKE	META-AS TO 31.5-SHARP CTS	
419.1	2.2		QTE	AS TO 350.8-LOCAL DIOPSIDE SKN-LOWER CT SHARP	60
421.3	2.2		SKN	DIOPSIDE-AS TO 149.3	
423.8	2.5		UM	AS TO 190.6-MT 1-2%	
426.1	2.3		AMPH	AS TO 143.3-LOWER CT SHARP	50

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
426.6	0.5	MVVW	QTE	AS TO 350.8-SPKS PY 1%-17-22 CPS	
430.2	3.6	MVVW	QTE	AS TO 416.4-LOCAL PINK QTZ FELDSPAR STRS-WEAKLY FOTD-SPKS PY 1%	60
430.8	0.6	MVVW	QTE	FG GREY BROWN-35-40% BIOTITE-WEAKLY FOTD-SPKS PY 1%	60
431.0	0.2	MVVW	QTE	FG-DK GREY BROWN-CHLORITE MICA 25-30 %-BUFF GREY RHYOLITIC IRREGULAR CLOTS (QTZ FELDSPAR VEINING)-SPKS PY 1 %-22-40 CPS	
432.1	1.1	MVVW	GWKE	META-AS TO 31.5-35-40% BIOTITE-LOCAL QTE BNDS (AS TO 353.3) SPKS PY 1% 42-61 CPS	70
435.9	3.8		QTE	INTERBANDED QTE (25%) AS TO 353.3 (17-23 CPS) & QTE (10-15%) AS TO 430 .8 (24-31 CPS) & METAGWKE BNDS AS TO 432.1 (38-48 CPS)-FOTD 60-70-SPKS PY 1%	
436.5	0.6	MVVW	GWKE	AS TO 432.1-SPKS PY 1%-56-74 CPS	60
438.1	1.6	MVVW	QTE	AS TO 353.3-SPKS PY 1%-22-30 CPS	
438.6	0.5	MVVW	GWKE	META-AS TO 432.1 SPKS PY 1%-LOWER CT SHARP-BIOTITE RICH-78-110 CPS	30
438.9	0.3	MVVW	QTE	AS TO 353.3-SPKS PY 1%-48-56 CPS	
439.7	0.8	MVVW	GWKE	AS TO 432.1-SPKS PY 1%-LOWER CT SHARP AT 60-72 TO 80 CPS AT 438.9, 135 TO 145 CPS AT 439.3 & 52-60 CPS AT 439.6	60
440.1	0.4	MVVW	QTE	AS TO 353.3-SPKS PY 1%-46-56 CPS	
442.0	1.9	MVVW	GWKE	META-AS TO 432.1-SPKS PY 1%-WEAKLY FOTD-105-120 CPS AT 440.2 & 82-90 CPS AT 441.8	60
444.9	2.9	MVW	RDCT	RHYOLITE-PORPHYRITIC-AS TO 271.4-WEAKLY FOTD-LOWER CT SHARP 70-SPKS PY 2-3%	70
450.0	5.1	MVVW	QTE	AS TO 416.4-SPKS PY 1%-7-15 CPS	70
454.7	4.7		QTE	AS TO 416.4-FOTD 60-70	
454.9	0.2		QTZ	VEIN-WHITE MASSIVE	
457.0	2.1		MTSD	FG-DK BROWN-60 TO 70% BIOTITE-CLOTS QTE-LOCAL GARNETS-LOWER CT SHARP	
459.4	2.4		QTE	AS TO 416.4	70
461.3	1.9		QTE	AS TO 350.8-FINELY BEDDED-LAMINATED	65
462.1	0.8		QTE	AS TO 353.3-CHLORITIC	
464.1	2.0		GWKE	META-MG-PALE GREEN GREY-50% CHLORITE 25% MICA-ELONGATED QTZ MASSES (EYES) & BNDS UP TO 0.2 INCHES-WELL FOTD	65
466.4	2.3		GWKE	META-MG-DK BROWN BLACK-BIOTITE 50% CHLORITE 25%-MINOR QTZ-FINELY BEDDED LAMINATED	65
467.9	1.5		GWKE	FG-PALE GREEN-CHLORITE RICH-MICA 10-15%-FINELY BEDDED TO LAMINATED	65
468.2	0.3		GWKE	META-AS TO 466.4	
469.8	1.6		GWKE	META-AS TO 467.9	65
470.2	0.4		GWKE	META-AS TO 466.4	65
470.8	0.6		QTE	FG-GREY TO PALE GREEN-FINELY LAMINATED-MICA & CHLORITE (5%) FOIN PLANES-LESS MAFIC BNDS-MAFIC CONTENT DECREA	65

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				STNG DOWNHOLE	
471.3	0.5		QTE	AS TO 461.3	65
471.7	0.4		SKN	AS TO 149.6-MINOR CALCITE	
472.6	0.9		QTE	AS TO 416.4-FINELY LAMINATED-BEDDED	65
474.3	1.7		QTE	AS TO 353.3	
475.0	0.7		QTE	AS TO 416.4-SPKS PY 1%	50
475.2	0.2		QTE	AS TO 353.3	
476.1	0.9		SKN	AS TO 149.6-30-35% QTE BNDS	
477.4	1.3		QTE	AS TO 353.3	
477.7	0.3		QTZ	VEIN-TRANSLUCENT-25% MAFIC INCLUSION S THROUGHOUT	
477.9	0.2		QTE	AS TO 470.8	70
478.4	0.5		QTE	AS TO 461.3-SPKS PO PY 1	60
479.6	1.2		QTE	AS TO 353.3	
483.0	3.4	MVVW	QTE	AS TO 461.3-SPKS PY 1%-BEDS & LAMIN ATIONS INTERBANDED METAGWKE	65
484.0	1.0	MVW	GWKE	META-FG-DK BROWN GREEN-FINELY LAMINA TED (VARIABILITY OF COMPOSITION)-CHL ORITE MICA RICH-SPKS FLAKES GALENA 1-2% & SPHALERITE 2-3% ALONG FOTN PL ANES	65
485.5	1.5	MVVW	QTE	AS TO 472.6-SPKS PY 1%	70
486.7	1.2		QTE	AS TO 461.3	70
486.8	0.1		GWKE	META-AS TO 31.5	70
487.8	1.0		GWKE	META-AS TO 466.4-LOCAL SMALL GARNETS	
488.1	0.3		QTE	FG-GREY-5-10% PARALLEL CHLORITE BIOT ITE STRS-5-10% CALCITE	
				488.0-488.1-50% MICA CHLORITE BANDS (BLACK BROWN)	
489.0	0.9		QTE	AS TO 353.1-2-3% CALCITE STRS	
490.4	1.4		QTE	AS TO 472.6-490.3 TO 490.4-MASSIVE BIOTITE CHLORITE GARNET BAND	70
492.4	2.0		SKN	MG-WHITE-CRYSTALLINE-75 TO 80% CALCI TE-STRS CLOTS MICA CHLORITE-MINOR DI OPSIDE	
492.6	0.2		SKN	AS TO 149.6-SHARP CTS	
495.1	2.5		QTE	AS TO 416.4-FINELY BEDDED-LAMINATED LOCAL INTERBANDS METAGWKE	60
496.0	0.9		GWKE	META-AS TO 466.4	60
498.6	2.6		QTE	AS TO 416.4	60
500.1	1.5		SKN	AS TO 149.6	
501.8	1.7		ARK	META-AS TO 197.2-MINOR TREMOLITE NEE DLES-1 INCH METAGWKE AT 500.9,501.4, 501.7-LOCAL CALCITE STRS	60
502.3	0.5		QTE	AS TO 353.3-LOCAL METAGWKE BNDS	
502.7	0.4		GWKE	META-FG-MG-DK GREY GREEN-CHLORITE MI CA 50%-QTZ FELDSPAR 50%	60
502.9	0.2		QTE	AS TO 353.3	
503.1	0.2		SKN	AS TO 149.6	
504.4	1.3		GWKE	META-AS TO 467.9-NOT WELL BEDDED-COA RSER GRAINED-LOCAL SKN BNDS	
505.4	1.0		QTE	AS TO 416.4-LOCAL SKN BNDS	
505.7	0.3		GWKE	META-AS TO 502.7-LOCAL QTE BNDS & CA LCITE STRS	60
506.2	0.5		QTE	AS TO 353.3-CALCITE STRS	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
506.3	0.1		GWKE	META-AS TO 502.7	
507.6	1.3		QTE	AS TO 416.4-1 INCH QTZ VEIN AT 506.6	60
507.9	0.3		GWKE	META-AS TO 502.7	60
508.6	0.7		GWKE	META-AS TO 504.4	
509.9	1.3		QTE	AS TO 416.4-CALCITE STRS	60
510.7	0.8		QTE	FG-GREY (GREEN) INTERSTITIAL CHLORITE 10-15% MINOR MICA-WEAKLY FCTD	60
512.9	2.2		QTE	AS TO 353.3	
513.4	0.5		GWKE	META-AS TO 466.4	
514.1	0.7		GWKE	META-AS TO 502.7	
514.9	0.8		QTE	AS TO 353.3	
516.3	1.4		QTE	AS TO 510.7	
522.5	6.2	MVVW	QTE	AS TO 461.3-LOCAL ZONES AS TO 416.4 SPKS PY 1%-9-27 CPS	60
523.1	0.6	MVW	QTE	PEBBLY-FG-GREY CHLORITE MICA STRS (S ELVAGE LIKE) 5-10%-32-38 CPS 522.7-1 INCH BAND OF 2 ELONGATED 0.2 INCH QTZ PEBBLES AT 60 IN FG DK GREY MICA CHLORITE MATRIX-88-96 CPS-SPKS PY 1%	
526.9	3.8	MVVW	QTE	AS TO 416.4-SPKS PY 1%-9-13 CPS	60
527.2	0.3	MVVW	QTE	PEBBLY AS TO 523.1-SEVERAL 0.2 INCH PEBBLES-SPKS PY 1%-9-13 CPS	
527.4	0.2	MVVW	QTE	AS TO 416.4-LOWER CT SHARP AT 60-SPKS PY 1%	60
551.1	23.7		DIA	META-AS TO 61.5-LOWER CT SHARP AT 60	
551.8	0.7		QTE	PURE-LIGHT GREY TO WHITE-SLIGHT TINGE YELLOW-SERICITIC-MINOR QTZ GRITS	60
552.0	0.2		GWKE	META-AS TO 502.7	
552.4	0.4		QTE	AS TO 551.8	
553.1	0.7		DIA	META-AS TO 61.5	
554.8	1.7		GWKE	META-AS TO 502.7	
556.8	2.0		QTE	AS TO 551.8	
557.0	0.2		GWKE	META-AS TO 502.7	
564.6	7.6		QTE	AS TO 551.8-STREAK FUCHSITE 559.7	60
568.9	4.3		QTE	FG-MG-GREY-GRANULAR-SERICITIC-MICA 10-15%-MINOR CHLORITE 60-MINOR QTZ GRITS	
569.6	0.7		QTE	AS TO 551.8	60
571.6	2.0		QTE	AS TO 568.9	60
583.6	12.0		QTE	AS TO 551.8	60
585.1	1.5		QTE	SIMILAR AS TO 568.9 BUT MORE CHLORITE 5-10%-MINOR QTZ GRITS-LOCAL HIGHLY GRANULAR ZONE	60
589.5	4.4		QTE	AS TO 568.9	60
605.0	15.5		QTE	AS TO 585.1	
624.0	19.0		QTE	AS TO 585.1-CORE FRACTURED & BROKEN LOST CORE 40% (SAND SEAMS)-FAULT ZONE	
634.4	10.4		QTE	AS TO 585.1	
641.3	6.9		QTE	AS TO 551.8-LOCAL BNDS HEMATITIC STAINED QTZ GRAINS	
644.6	3.3		QTE	AS TO 585.1	
649.0	4.4		QTE	AS TO 510.7-1 INCH QTE AS TO 585.5 AT 648.8	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
651.0	2.0		QTE	AS TO 585.1	
651.6	0.6		QTE	AS TO 510.7	
655.0	3.4		QTE	AS TO 585.7-SMALL STREAK FUCHSITE AT 652.5	
658.0	3.0	MVVW	QTE	AS TO 510.7-SPKS PY 1%	
658.6	0.6	MW	QTE	AS TO 510.7-SMALL MICA CHLORITE RICH 45 BNDS-CLOTS OF PO 5-6%-PY 5-6% ELONGATED PARALLEL TO FOTN	
662.9	4.3	MVVW	QTE	AS TO 510.7-LOCAL QTZ VEINS-SPKS PY 1%	
666.1	3.2		GWKE	META-AS TO 502.7-INCREASING % QTE BN DS DOWNHOLE	50
668.0	1.9		QTE	AS TO 585.1	
672.1	4.1		QTE	AS TO 551.8-LOCAL BNDS AS TO 568.9	
675.6	3.5		QTE	AS TO 585.1	
676.4	0.8		QTE	AS TO 510.7	
679.0	2.6		QTE	AS TO 585.1-LOCAL BNDS RUSTY RED HEMATITIC STAINED QTZ GRAINS	
680.4	1.4		QTE	AS TO 510.7	
681.3	0.9		QTE	AS TO 568.9-LOCAL BND AS TO 510.7	
684.5	3.2		QTE	AS TO 510.7	
686.7	2.2		QTE	AS TO 585.1-BNDS AS TO 510.7	
687.2	0.5		QTE	AS TO 551.8	
688.7	1.5		QTE	AS TO 510.7	
689.1	0.4		QTE	AS TO 551.8	
689.6	0.5		QTE	AS TO 510.7	
700.0	10.4		QTE	AS TO 585.1-LOCAL ZONES AS TO 510.7 FOOT OF HOLE	

SPECTROMETER READINGS WITH SCINTREX
GIS-3 NUMBER 905 107
THIN SECTIONS AT 142.6 143.6
247.8 491.5

BOREHOLE RECORD
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DATE PROCESSED APR 01,1974

CHK'D.....

BOREHOLE#	PROPERTY	NTS#	SH#	ANOM#	DEPTH	AZIMUTH	DIP	LATITUDE	DEPARTURE	ELEVATION	LEVEL
55324-0	SAKAMI LAKE	33F 9E		32	106	180 00	-45 00	N 55	E 800		DATE.....

INCLINATION AND TROPARI TESTS

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP

TOPS OF WEDGES

COMMENTS

LOGGED BY..YURIY B STARTED..JULY 09,1973 COMPLETED..JULY 11,1973 DRLD CANICO WINKIE EXT CORE ANOM 32-46 PERMIT NO 551 TWP 3219 ALL CAS RECOVERED-DRLD T WAKEGIJIG

SAMPLE ENTRIES

DEPTH	LENGTH	PNZA	ROCK	DESCRIPTION	ANG
0.0	0.0			COLLAR	
46.0	46.0			EX CAS OB CLAY & SAND SOC	
51.5	5.5	MVVW	PLLT	PELITIC RATHER SLCS APNC GY TO BK LO CL VERY FG QTZ-FSP(SRCC)-BICT SCSS LOCL FEW FINE ARG BNDS PY LOCL 1-2% AS FINE STRS ALONG BDG & SHR PLANES SOME CUBES BXTD AT 47.0 CREC	45
58.2	6.7	MVW	ARG	DK GY TO BK APNC BNDD LOCL SLCS ZONE S-PLLT GRNLX CT PY-PO 2-4% ALONG BDG & SHR PLANES AS SPKS & FINE STRS FEW QTZ VINS CRBD LOCL VERY WKLY MTC	40
67.2	9.0	MVVW	PLLT	AS TO 51.5 LOCL BIOT BNDS QTZ VEIN AT 67.0 FEW PY SPKS	35
70.9	3.7	MVVW	PLLT	AS TO 51.5 PY LEAVES IN SHRS SLLY MO RE SLCS	
72.9	2.0	MVW	ARG	AS TO 58.5 BNDD PY-PO 5-6% MOST PO AS STRS & BLBS WKLY MTC MINOR SHRG LOCL CONTORTED XBDG NATURE	40
73.6	0.7	MW	ARG	AS TO 72.9 STGL CRBD GRPT PY-PO GRPT 15-20% PO 20% PY 5% WKLY -MODY MTC COR EXPLN	
75.0	1.4	MVW	PLLT	AS TO 51.5 ARG BNDS PY-PO 5% PO UP TO 4% FINE STRS WKLY MTC	40
77.5	2.5	MVVW	PLLT	AS TO 51.5 FEW SPKS PY-PO BCMG CRSP GRAINED-SCHIST	40
87.5	10.0	MVVW	SCH	PARA QTZO-FSPC FG LOCL APNC ZONES-PL LT BIOT BNDS QUITE SCSS TO MASS-ARK GY TO DK GY FEW PY-PO SPKS	45
106.0	18.5		ARK	META AGLC GENERALLY MASS FMES VERY F G-FG DK GY NOT AS SCSS AS PREV QTZ-FSP-BIOT RATHER GNSC FEW SPKS PO FOOT OF HOLE	

BOREHOLE RECORD
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DATE PROCESSED APR 01,1974

CHK'D.....

BOREHOLE#	PROPERTY	NTS#	SH#	ANOM#	DEPTH	AZIMUTH	DIP	LATITUDE	DEPARTURE	ELEVATION	LEVEL
55325-0	SAKAMI PROJECT	33F 3E			729	180 00	-45 00	S 2260	W 15600		

DATE.....

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INCLINATION AND TROPARI TESTS

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP
100		-44 45	200		-41 30	300		-33 00	400		-29 00	500		-26 30
600		-26 30	700		-24 00									

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TOPS OF WEDGES

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COMMENTS

LOGGED BY..DEBICKI E J STARTED..JULY 12,1973 COMPLETED..JULY 20,1973 DRILLED INSPIRATION BBS 1-AQ CORE-PERMIT 547-ZONE 4
6 FEET AW CASING LEFT IN HOLE

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SAMPLE ENTRIES

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
0.0	0.0			COLLAR	
				UM TYPES A,B & C AS DEFINED IN BH 55303	
9.0	9.0			CASING-8 FT AW CSG-BEDROCK SETUP-START OF CORE	
15.6	6.6		QTE	FG-LIGHT TO MD GREY-BEDDED LAMINATED 20-30-INTERBANDED SERICITIC QTE (2-3% CHLORITE MICA WITH SERICITE RICH BANDS & DARKER GREY SERICITIC QTE (5-10% CHLORITE-MICA)	
21.5	5.9		QTE	MINOR SERICITE-LIGHT TO MEDIUM GREY-FG-MG-GRANULAR MASSIVE-5% MICA CHLORITE-30% WHITE MASSIVE VEIN QTZ	
22.4	0.9		QTE	FG-MEDIUM GREY-CHLORITE 5-10%-LESS MAFIC BANDS-LOCAL SERICITIC BNDS-FINELY BEDDED-21.5 TO 21.7-GARNETS	50
23.2	0.8		QTZ	VEIN-WHITE MASSIVE	
26.4	3.2		QTE	AS TO 22.4	50
27.4	1.0		SKN	DIOPSIDE-MG-GREY GREEN-QTZ 35% CALCITE 15-20%-DIOPSIDE 50%	
28.6	1.2		QTE	FG-MEDIUM TO DK GREY-10 TO 15% MICA CHLORITE-MINOR SERICITE-BEDDED-LOCAL QTZ RICH BNDS	50
29.2	0.6		QTE	AS TO 22.4-SERICITIC	50
32.4	3.2		QTE	AS TO 28.6	50
34.4	2.0		QTE	AS TO 21.5	
35.4	1.0		QTE	AS TO 22.4	40
36.1	0.7		QTE	AS TO 21.5	50
38.6	2.5		QTE	AS TO 28.6	50
39.0	0.4		SKN	DIOPSIDE-AS TO 27.4	
40.3	1.3		QTE	AS TO 28.6	50
45.6	5.3		QTE	FG-FINELY BEDDED LAMINATED 40-50 SEQUENCE OF QTE (FG-GREY SLIGHTLY SERICITIC),META-ARKOSE (INCREASING% DOWN HOLE-FG-GREY BROWN-MICACEOUS) 100% MICA CHLORITE LAMINATIONS (FOLN-BEDDING PLANES),META-ARGILLITE (FG-DK BR	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				OWN GREY-CHLORITE MICA RICH) & LOCAL METAGWKE BEDS (0.5 INCHES-DK GREY-GREEN-MICA CHLORITE RICH-COARSER GRAINED) - BEDDING CTS SHARP-MINOR QTZ VEINS & X-BEDDING	
46.2	0.6		QTZ	VEIN-WHITE MASSIVE-SHARP CTS	
47.5	1.3		ARK	META-SIMILAR AS TO 45.6-MINOR QTE & METAGWKE	35
47.8	0.3		GWKE	META-MG-CG-DK GREY GREEN-MICA CHLORITE-AMPHIBOLE 60%-TRACE CALCITE	
69.5	21.7		ARK	META-SIMILAR AS TO 45.6-NO QTE OR METAGWKE-MINOR META-ARGILLITE BNDS-LOCAL LESS MAFIC BEDS-LOWER CT SHARP 45 FOTC 30 AT 51.0,35 AT 53.0,45 AT 59.0,55 AT 69.0	
71.3	1.8		ARG	META-FG-DK BROWN-75% BIOTITE-5-10% CALCITE-WEAKLY FOTD	50
81.9	10.6		GWKE	META -DK GREY BROWN-QTZ FELDSPAR AMPHIBOLE-CALCITE 5% CLOTS (EYES) MICA (50%) ELONGATED PARALLELING WEAK FOTN-TEXTURE APPEARS META-DIABASIC-LOCAL QTZ VEINS	40
82.9	1.0		QTZ	VEIN	
83.3	0.4		QTE	FG-MG-GRANULAR-10% MICA FLAKES-LOWER CT SHARP	
94.0	10.7		ARK	META-AS TO 47.8-LOCAL CHLORITIC RICH ZONES-FOTD 45 TO 30 DOWNHOLE	
102.8	8.8		GWKE	META-SIMILAR AS TO 47.8-MICA RICH-MINOR AMPHIBOLE-BANDED (BEDDED) DUE TO COMPOSITION VARIATIONS-LOWER CT SHARP AT 30-MINOR ZONES PY 1%-0.5 INCH BIOTITE GARNET BND AT LOWER CT	30
103.7	0.9		ARK	META-AS TO 47.5	30
106.4	2.7		ARK	META-VFG-GREY-BEDDED-LOCAL SLUMPED BEDS (BANDS) OF QTE	30
108.0	1.6		GWKE	META-AS TO 47.8 WITH MICA LAMINATIONS AT 30	30
109.8	1.8		MTSD	CARBONACEOUS-FG-MG-GREY PALE GREEN-MASSIVE-QTZ FELDSPAR-25% CARBONATE-MINOR CHLORITE	
110.5	0.7		QTZ	VEIN	
111.4	0.9		ARG	META-AS TO 71.3 BUT 90% BIOTITE-10% CALCITE	
117.3	5.9		GWKE	META-SIMILAR AS TO 81.9 BUT MASSIVE-DK GREEN BROWN-DIABASIC APPEARANCE-WELL DEVELOPED ROUNDED BIOTITE CLOTS 50%-AMPHIBOLE (ACTINOLITE) 25%-FELDSPAR CALCITE VEINING 116.0 TO 117.0	
119.9	2.6		ARK	META-HIGHLY MICACEOUS (35-40%)-FINELY BEDDED LAMINATED-LOCAL METAGWKE ZONES-LOWER CT BIOTITE RICH	40
131.7	11.8		DIA	META-FG-GREY GREEN-FELDSPAR & AMPHIBOLE BECOMING BIOTITIC DOWNHOLE-LOCAL METAGWKE BNDS-LOWER CT SHARP AT 45	45
131.9	0.2		ARK	META-AS TO 119.9 BUT MICA 25%	45

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
132.1	0.2		GWKE	META-AS TO 102.8	45
133.2	1.1		QTE	TRANSLUCENT-MG-QTZ (5% MICA CHLORITE)-INTERBANDED LAMINATIONS MICA CHLOR ITE-SLUMPING OF BEDDING	
134.9	1.7		QTE	MG-GRANULAR-TRANSLUCENT-50-60% DIOPS IDE SKARN	
137.2	2.3		QTE	FINELY BEDDED-LAMINATED QTE (FG-WHIT E)-INTERBEDS & LAMINATIONS ARKOSE IN CREASING IN CONTENT DOWNHOLE	45
145.4	8.2		ARK	META-AS TO 69.5-MORE BIOTITIC DOWNHO LE (AS TO 119.9)-LOCAL ZONES HIGHLY BIOTITIC	50
146.2	0.8		GWKE	META-FG-GREY-FINELY BEDDED-BROWN-BIO TITE RICH-MINOR FELDSPAR QTZ AMPHIBO LE-LOCAL SMALL GARNETS-INTERBEDDED & INTERLAMINATED QTZ RICH ZONES	
147.3	1.1		QTE	AS TO 133.2	50
149.0	1.7		GWKE	META-AS TO 146.2-INTERBEDDED MINOR META-ARKOSE	50
155.1	6.1		DIA	META-AS TO 131.7-LOWER CT SHARP WEAKLY FOTD 40-50	45
159.2	4.1		ARK	META-AS TO 69.5-ZONES OF NUMEROUS MI CA RICH LAMINATIONS-CONTORTED BEDDIN G (SLUMPING) AT 156.9	40
161.2	2.0		GWKE	META-AS TO 146.2 BECOMING MORE BIOTI TIC DOWNHOLE-CALCITE RICH DIOPSIDE SKN ZONES AT 160.1-160.3 & 160.7-161 .3	45
162.1	0.9		ARK	META-FG-GREY-WEAKLY FOTD	40
162.7	0.6		ARK	META-AS TO 69.5-LOWER CT SHARP 60	40
168.2	5.5		ARK	META-FG-GREY-MICACEOUS RICH BEDDING PLANES-X-BEDDING WELL DEVELOPED-LOCA L SERICITIC QTE BEDS	
168.9	0.7		QTE	FG-GREY-SERICITIC (SLIGHTY YELLOW)- MICACEOUS BEDDING PLANES	
171.2	2.3		ARK	META-AS TO 168.2	
171.5	0.3		QTZ	VEIN-WHITE-MASSIVE	
173.3	1.8		ARK	META-AS TO 168.2-LOWER CT UNDULATING	
174.7	1.4		GWKE	META-FG-DK GREEN-AMPHIBOLE RICH-MINO R MICA-LOCAL GARNETS-X-BEDDED-LOWER CT SHARP	
177.4	2.7		ARK	META-AS TO 69.5	40
178.6	1.2		GWKE	META-AS TO 174.7	40
181.7	3.1		ARK	META-AS TO 69.5	
182.6	0.9		QTE	FELDSPATHIC-MG-GREY-5% MICA-LOCAL CA LCITE VEINS	
183.0	0.4		ARG	META-FG-DK BROWN-BIOTITE RICH-SMALL LATHS UNORIENTED CALCITE (REACTS TO NITRIC ACID)-CTS GRADATIONAL	
183.8	0.8		QTE	AS TO 182.6	
184.5	0.7		ARK	META-AS TO 162.1	
189.9	5.4		ARK	META-AS TO 69.5 BECOMING MORE MICACE OUS DOWNHOLE	
193.2	3.3		ARK	META-FG-DK BROWN GREY-WELL DEVELOPED MICA EYES (25%) ELONGATED IN PLANE O	40

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				F FOTN-IN FG MICACEOUS ARKOSE MATRIX	
200.8	7.6		DIA	META-AS TO 131.7-FG AT CTS TO MG AT CENTRE OF UNIT-LOCAL BIOTITIC BANDS (METAGWKE)	40
202.1	1.3		ARK	META-AS TO 69.5-LOCAL METAGWKE BED-FOTO 40 TO 60 DOWNHOLE-LOWER CT UNDU LATING	
216.9	14.8		DIA	META-AS TO 131.7-MASSIVE TOWARDS CEN TRE OF UNIT	
217.1	0.2		ARK	META-AS TO 69.5	30
217.3	0.2		GWKE	META-AS TO 174.7	30
217.9	0.6		ARK	META-AS TO 69.5	30
219.9	2.0		GWKE	META-AS TO 174.7 BECOMING PALE GREEN FG AMPHIBOLE RICH DOWNHOLE-STRS CLOT S PO PY 1% LOWER CT IRREGULAR	
221.3	1.4		QTE	FG-MG GREY GRANULAR-5% MICA & CHLORI TE-MASSIVE	
222.5	1.2		GWKE	META-AS TO 174.7 BUT MICA 25%	60
223.4	0.9		QTE	AS TO 221.3	
224.0	0.6		GWKE	META-AS TO 174.7	60
224.3	0.3		ARK	META-AS TO 69.5	60
230.0	5.7		GWKE	FG-DK GREEN-AMPHIBOLITIC (75-80% AMP HIBOLE)-MICA RICH BANDS	45
255.7	25.7		DIA	META-AS TO 216.9-LOCAL BNDS METAGWKE AS TO 230.0	
256.5	0.8		QTE	AS TO 221.3-CTS SHARP AT 45	
260.8	4.3		GWKE	META-AS TO 230.0	45
262.5	1.7		GWKE	META-AS TO 230.0 BUT HIGHLY MICACEOU S BNDS	45
264.0	1.5		GWKE	AS TO 230.0	45
264.5	0.5		GWKE	META-AS TO 262.5-LOWER CT SHARP	60
266.7	2.2		QTE	GREY TO MEDIUM GREY GREEN-MASSIVE TO WEAKLY BEDDED (SLUMPING-UNDULATED BE ODING)-GRANULAR-5% MAFICS (CHLORITE-MINOR MICA) INTERSTITIAL TO QTZ GRAI NS-LOCAL QTZ RICH & CHLORITE RICH BE DS-MINOR SERICITIC ZONES-LOCAL ZONES DIOPSIDE SKARN (IRREGULAR CTS)	
267.7	1.0		QTZ	VEIN	
292.0	24.3		QTE	AS TO 266.7-LOWER CT SHARP	
292.2	0.2		QTE	PURE-FG-WHITE--SLIGHTLY SERICITIC	
295.5	3.3		QTE	AS TO 266.7	
298.1	2.6		QTE	AS TO 292.2-LOCAL BNDS STRS CHLORITE MICA (5-10%)	
299.3	1.2		QTE	FG-GREY GREEN-CHLORITE MICA BNDS (ME TAGWKE), STRS & INTERSTITIAL TO QTZ GRAINS 10-20%-LOCAL QTZ RICH ZONES WEAKLY FOTO-LOCAL DIOPSIDE SKN ZONES	50
301.1	1.8		QTE	AS TO 298.1	
304.0	2.9		QTE	AS TO 299.3	
304.7	0.7		QTE	AS TO 298.1	
317.8	13.1		QTE	AS TO 299.1-BECOMING LESS MAFIC DOWN HOLE-LOCAL METAGWKE BNDS (MICA CHLOR ITE RICH)	40
318.8	1.0		GWKE	META-MG-DK GREEN-CHLORITE MICA 50-60	40

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				%-QTZ RICHER DOWNHOLE-LOCAL SKN BNDS	
330.4	11.6		QTE	SIMILAR AS TO 266.7-LESS CHLORITIC-S ERICITIC RICH FOTN PLANES (BEDDING)	55
331.1	0.7		QTE	AS TO 330.4-SLIGHTLY QTZ RICHER-SERI CITIC	
336.9	5.8		QTE	AS TO 330.4	55
337.3	0.4		QTZ	VEIN	
337.9	0.6		QTE	AS TO 330.4	45
338.5	0.6		QTE	AS TO 331.1	
356.1	17.6		QTE	AS TO 330.4 BECOMING SLIGHTLY LESS MAFIC DOWNHOLE-1 INCH MICA BND AT 35 3.3-22 TO 27 CPS	55
356.3	0.2		QTZ	VEIN	
361.5	5.2	MVVW	QTE	AS TO 330.4-1 INCH QTZ VEIN AT 359.7 OCCASIONAL SPKS PY 1%-9-20 CPS	55
362.1	0.6	MVVW	QTE	AS TO 330.4-SPKS PY 1%-44-60 CPS-28 TO 42 CPS AT CTS	55
367.0	4.9	MVVW	QTE	AS TO 330.4-SPKS PY 1%-9-20 CPS	55
368.7	1.7	MVVW	QTE	AS TO 330.4-SPKS PY 1%-9-20 CPS	55
371.8	3.1	MVVW	QTE	AS TO 330.4-NUMEROUS QTZ RICH BNDS DECREASING IN % DOWNHOLE-30-38 CPS AT 369.0 TO 22-27 CPS AT 371.0-SPKS PY 1%	55
372.1	0.3	MVW	CONG	ELONGATED TRANSLUCENT TO LIGHT GREY QTZ PEBBLES (50%) 0.3 TO 0.8 INCHES LONG DECREASING IN% DOWNHOLE-WELL DEVELOPED BIOTITE CHLORITE SELVAGES SPKS PY 1-2%-42-52 CPS	55
372.7	0.6	MVW	QTE	PEBBLY-SEVERAL QTZ PEBBLES ELONGATED 0.2 TO 0.8 INCHES-WELL DEVELOPED CHL ORITE SELVAGES & BEDDING (FOTN) PLAN ES-QTZ BNDS SEPARATED BY CHLORITE MI CA FOTN PLANES (PEBBLY APPEARANCE) SPKS PY 1%-29-46 CPS	55
373.8	1.1	MVW	QTE	PEBBLY-AS TO 372.7-58-84 CPS-SPKS PY 1%	55
374.7	0.9	MVW	CONG	SIMILAR AS TO 372.1-DISTINCT ELONGAT ED TO ROUNDED FRACTURED QTZ PEBBLES 75%-SPKS CLOTS PY PO CP 4-5% IN BIOT ITE CHLORITE MATRIX-95-120 CPS AT CT S TO 205-220 CPS AT 374.5	
376.0	1.3	MVVW	QTE	FG-LT GREY-SLIGHTLY YELLOW-SERICITIC LOWER CT SHARP-SPKS PY 1%-9-15 CPS	55
376.5	0.5	MVVW	QTE	AS TO 372.7-LOWER CT SHARP-SPKS PY 1 %-9-15 CPS	55
377.0	0.5		GWKE	META-MG-GREY GREEN-AMPHIBOLE FIBRES-MICA CHLORITE FELDSPAR	
378.7	1.7		DIA	META-FG-DK GREEN-AMPHIBOLE RICH-LOCA L QTZ VEINS	
378.9	0.2		QTZ	VEIN-CTS SHARP	
384.9	6.0		DIA	META-AS TO 378.7 COARSER GRAINED-WEA KLY FOTD 60-65	
387.9	3.0		QTE	FG-GREY-5-10% CHLORITE MICA-LOCAL SE RICITIC RICH & LESS MAFIC BNDS	55
389.6	1.7		DIA	META-AS TO 378.7	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
390.0	0.4		QTE	AS TO 387.9-NON-SERICITIC	
392.5	2.5		DIA	META-AS TO 378.7	
393.4	0.9		VOLC	ANDESITE-BASALT-VFG-DK GREEN-CHLORITE AMPHIBOLE RICH-LOCAL QTZ VEINS-LOWER CT SHARP	
395.5	2.1		QTE	AS TO 387.9-NON-SERICITIC	
396.7	1.2		DIA	META-AS TO 378.7	
398.1	1.4		QTE	AS TO 387.9	
416.1	18.0		DIA	META-AS TO 378.7 BECOMING COARSER GRAINED DOWNHOLE	
417.7	1.6		QTZ	VEIN-WHITE-MASS	
455.0	37.3		DIA	META-AS TO 384.9	
455.4	0.4		QTZ	VEIN-30-35% MICACEOUS RICH INCLUSIONS-IRREGULAR CTS	
462.4	7.0		DIA	META-AS TO 384.9-LOWER CT IRREGULAR	
462.5	0.1		VOLC	AS TO 393.4	
463.3	0.8		DIA	META-AS TO 384.9	
464.5	1.2		VOLC	AS TO 393.4	
466.4	1.9		DIA	META-AS TO 384.9	
466.9	0.5		VOLC	AS TO 393.4-IRREGULAR CTS	
467.1	0.2		DIA	META-AS TO 384.9	
467.5	0.4		VOLC	AS TO 393.4-IRREGULAR CTS	
467.8	0.3		DIA	META-AS TO 384.9	
468.0	0.2		VOLC	AS TO 393.4	
468.6	0.6		DIA	META-AS TO 384.9	
469.7	1.1		VOLC	AS TO 393.4	
486.0	16.3		DIA	META-AS TO 384.9	
486.6	0.6		VOLC	AS TO 393.4	
489.2	2.6		QTE	AS TO 387.9-NON-SERICITIC-LOWER CT JAGGED	
491.8	2.6		VOLC	AS TO 393.4-LOWER CT GRADATICNAL INTO FOLLOWING UNIT	
523.2	31.4		DIA	META-AS TO 384.9	
523.6	0.4		AMPH	CG-DK GREEN BLACK-MASSIVE-GREEN ACTINOLITE FIBRES & BLACK HORNBLENDE FIBROUS CLOTS (50%)-SPKS PY 1-2% INTERSTITIAL TO AMPHIBOLE	
524.0	0.4		AMPH	AS TO 523.6 BUT FINER GRAINED	
526.4	2.4		DIA	META-AS TO 384.9-LOWER CT FOTO	45
526.9	0.5		AMPH	AS TO 523.6-CLOTS PY-MINOR PO 1-2% 526.6-0.1 INCH QTZ VEIN WITH MASSIVE PO PY	
527.8	0.9		DIA	META-AS TO 384.9 WITH 60% QTZ VEINS	
543.2	15.4		DIA	META-AS TO 384.9	
545.0	1.8		UM	AMPHIBOLITIC-MG-DK GREEN-SLIGHTLY TALCOSE-MT 4-5%-SPKS PY 1%	
546.0	1.0		UM	VFG-DK GREEN-AMPHIBOLE RICH-TALCOSE (ALTERED CT ZONE)-CUBES MT 1-2%	
549.1	3.1		UM	MG-CG-GREY-MASSIVE-TREMOLITE SUNS IN FG TALCOSE MATRIX-MT 1%	
549.5	0.4		UM	AS TO 546.0-MT 1%	
550.6	1.1		UM	AS TO 549.1-MT 1%	
551.8	1.2		UM	AS TO 546.0-LOCAL BND TREMOLITE SUNS LOWER CT UNDULATING-MT 1-2%	
552.0	0.2		UM	AS TO 549.1-MT 1-2%	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
555.9	3.9		UM	FG-MG-MASSIVE-TALCOSE-LOCAL TREMOLITE SUNS-CARBONATE 5% MT 1-2%	
557.2	1.3		UM	AS TO 546.0-556.7-1 INCH END AS TO 549.1-MT 2-3%	
558.4	1.2		UM	AS TO 559.9-NUMEROUS CALCITE VEINS MT 1-2%	
561.5	3.1		UM	VARIETY TYPE C (LONG PRISMATIC OLIVINES IN 25% TALCOSE LIGHT GREY MATRIX) GRADING INTO TYPE A DOWNHOLE (MASSIVE COMPACT BLACK OLIVINES-NO MATRIX	
567.5	6.0		UM	TYPE A-MASSIVE OLIVINES WITH MINOR AMOUNTS LIGHT GREY TALCOSE MATRIX-WEAKLY SRPD-HIGH SRPD 565.7-567.5-MT 2-3%	
576.8	9.3		UM	AS TO 567.5-NOT SRPD-MT 1-2%	
577.3	0.5		UM	AS TO 555.9-MT 1-2%	
577.8	0.5		UM	AS TO 549.1-MT 1%	
578.7	0.9		UM	AS TO 546.0-MT 3-4%-LOWER CT JAGGED	
589.4	10.7		DIA	META-AS TO 384.9-LOCALLY WEAKLY FOTD -LOWER CT SHARP & JAGGED	60
590.0	0.6		UM	AS TO 546.0-MT CUBES 5-6%	
591.1	1.1		UM	AS TO 555.9-MT 1%	
593.0	1.9		UM	TYPE C VARIETY-PRISMATIC OLIVINES IN FG TALCOSE MATRIX BECOMING LARGER DOWNHOLE-MT 1-2%	
608.0	15.0		UM	TYPE A-CG BLACK OLIVINES-MINOR MATRIX-LOCALLY SRPD-MT 1-2%	
623.0	15.0		UM	AS TO 608.0-MT 1-2%	
638.0	15.0		UM	AS TO 608.0-7T 1-2%	
653.0	15.0		UM	AS TO 608.0-7T 1-2%	
662.7	9.7		UM	AS TO 608.0-7T 1-2%	
673.0	10.3		UM	VARIETY TYPE C-LARGE PRISMATIC OLIVINES DECREASING IN % DOWNHOLE WITH INCREASING FG GREY TALCOSE MATRIX-MT 1-2%	
673.3	0.3		UM	AS TO 673.0-OLIVINES DECREASE TO 0% DOWNHOLE-MT 1-2%	
677.1	3.8		UM	AS TO 555.9-MT 1-2%	
677.3	0.2		UM	TYPE C-LARGE PRISMATIC OLIVINES 60% IN FG GREY TALCOSE MATRIX-MT 1-2%	
685.1	7.8		UM	AS TO 555.9 BECOMING FG PALE GREEN DOWNHOLE (TREMOLITE)-MT 1-2%	
685.5	0.4		AMPH	FG-DK GREEN-AMPHIBOLE RICH WITH 50% MICA BNDS	
686.6	1.1		DIA	META-AS TO 378.7-BROKEN CORE-FRACTURED	
687.3	0.7		UM	AS TO 555.9-FG PALE GREEN (TREMOLITE) MT 1-2%	
687.6	0.3		QTZ	VEIN	
688.4	0.8		UM	AS TO 687.3-MT 1%	
690.2	1.8		UM	AS TO 555.9-NO TREMOLITE SUNS MT 1%	
692.4	2.2		UM	VARIETY TYPE C-EQUANT OLIVINES 75% DECREASING IN SIZE & TO 25% DOWNHOLE MT 1-2%	
693.1	0.7		UM	TYPE C-60-70% EQUANT OLIVINES-MT 1%	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
695.1	2.0		UM	TYPE B-PRISMATIC & SMALLER EQUANT OLIVINES 40-50%-MT 1-2%	
697.6	2.5		UM	TYPE C-60% EQUANT OLIVINES	
700.3	2.7		UM	TYPE B-AS TO 695.1-MT 1-2%	
700.7	0.4		UM	TYPE C-25% PRISMATIC OLIVINES-MT 1%	
702.2	1.5		UM	TYPE C-AS TO 697.6-MT 1%	
708.4	6.2		UM	TYPE C-LARGE PRISMATIC OLIVINES BECOMING HUSKY TABLETS DOWNHOLE-MT 1-2%	
709.7	1.3		UM	AS TO 555.9-NO TREMOLITE-MT 1-2%	
712.0	2.3		UM	TYPE C-PRISMATIC OLIVINES 50%-MT 1%	
713.3	1.3		UM	TYPE C-LARGE HUSKY TALBETS-MT 1%	
714.1	0.8		UM	AS TO 555.9-NO TREMOLITE SUNS-MT 1%	
715.9	1.8		UM	AS TO 546.0-MT 2-3%	
718.9	3.0		UM	AS TO 555.9-MNO TREMOLITE-MT 1-2%	
719.5	0.6		UM	AS TO 555.9-MT 1-2%	
721.4	1.9		UM	TYPE C-AS TO 697.6-MT 1-2%	
722.4	1.0		UM	TYPE A-MT 1-2%	
724.4	2.0		UM	TYPE C-AS TO 697.6-MT 1-2%	
728.6	4.2		UM	TYPE A-MT 1-2%	
729.0	0.4		UM	TYPE C-LONG PRISMATIC OLIVINES-MT 1-2% FOOT OF HOLE	
				SPECTROMETER READINGS WITH SCINTREX	
				GIS-3 NUMBER 905 107	
				THIN SECTIONS AT 78.5 109.3	

BOREHOLE RECORD
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DATE PROCESSED APR 01,1974

CHK'D.....

BOREHOLE#	PROPERTY	NTS#	SH#	ANOM#	DEPTH	AZIMUTH	DIP	LATITUDE	DEPARTURE	ELEVATION	LEVEL
55326-0	SAKAMI LAKE	33F 9E		32	197	180 00	-45 00	N 390	E 1500		DATE.....

INCLINATION AND TROPARI TESTS

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP

TOPS OF WEDGES

COMMENTS

LOGGED BY..YURIY B. STARTED..JULY 12,1973 COMPLETED..JULY 17,1973 DRLL CANICO WINKIE EXT CORE ANOM. 32 & 48 PERMIT AREA 551 TWP 3219 ALL CAS RECOVERED T WAKEGIJIG

SAMPLE ENTRIES

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
0.0	0.0			COLLAR	
12.0	12.0			EX CAS OB CLAY & SAND SOC	
14.5	2.5		VOLC	META INT-BASIC FSP-AMPB MINOR QTZ SOME CHL ZONES APNC-VERY FG CRBD GY TO LT GRN FEW DY SPKS	
17.2	2.7	MVVW	SCH	ORTHO QTZ-FSP-AMPB SOME BIOT FG LOCL 50 MG LOCL MORE MASS BASIC VOLV UNITS CHLC BNDD STGL CRBD FEW FSP STRS FEW PO STRS	
23.2	6.0	MVVW	VOLC	AS TO 14.5 LOCL SCH ZONES AS ABOVE MG SOME SHRG CARB VINS PO LOCL 1-2%	
26.5	3.3	MVW	VOLC	AS TO 14.5 SHRD LOCL AMPC-CHLC PO AT 50 SHRS 23.6 & 25.6-25.9 PO UP TO 5-6% MINOR PY C1%	
32.1	5.6	MVVW	VOLC	AS TO 14.5 AMPC FEW SML GARS LOCL PO 1-2% PY MINOR AS SPKS & STRS	
39.1	7.0	MVW	AMPH	ORTHO FG-MG DK GRN GARS LOCL CHLC LOCL SML GOOD BASIC UNITS CRBC-CARB STRS MASS LOCL SLLY GNSC 50-70 MIN PY-PO PY 2-3% 1% MOST AS STRS SOME BLBS	50
40.9	1.8	MVVW	VOLC	AS TO 14.5 APNC-VERY FG FSP-AMPH-CHL MASS FEW SPKS PY C1%	
50.6	9.7	MVW	AMPH	AS TO 39.1 FG GRFR LOCL SCCS GAR-AMP CHL MOST MASS CRBD PO 5-6 % PY MINOR MTC	55
52.2	1.6	MVVW	VOLC	META INT QTZ-FSP SOME AMPB APNC-VERY FG GY RATHER MASS LOCL BIOTITIC SCHO 60 GRNLX CT MIN PY-PO 1% AS FINE STRS	
55.4	3.2	MVW	SCH	ORTHO- GAR-AMPB-CHL BNDD LOCL RATHER MASS AMPC GARS UP TO 1/8 INCH FG DK GRN CRBD SOME SHRG MIN PY-PO 10% MOST PO PY MINOR	65
56.3	0.9	MVVW	VOLC	AS TO 52.2 APNC POSS SIL MTSC-ARK 1/8 INCH PO VEIN AT 55.8 LOCL BIOTITIC	70

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
66.3	10.0	MVW	AMPH AS TO 39.1	LOCL SCSS AMPB-CHL PRPC NATURE AMPB IN CHL MATRIX STGL CRBD PY-PO MIN PO 8-9% PY 1% AS STRS SOME BLBS	65
68.5	2.2	MVVW	AMPH AS TO 39.1	FEW SPKS PY LOCL BIOTITIC	
70.3	1.8	MVVW	VOLC AS TO 52.2	POSS AN ARK VGUE BNDG QTZ-FSP-BIOT VERY FG GY RATHER PRPC FEW SPKS PO	65
78.8	8.5	MVVW	AMPH AS TO 39.1	RATHER MASS LOCL MORE SIL ZONES-GWKE LOCL GCCC VOLC NATURE-PRPC FEW SPKS PY-PO PO LOCL 1-2%	
84.5	5.7	MVVW	GWKE META	RATHER SCSS FG GY-GRN LCCL AMPC WKLY CRBD LOCL BIOT BNDS FEW SPKS PY-PO	70
87.7	3.2	MVVW	AMPH AS TO 39.1	STGL CRBD FEW SPKS PO	
91.8	4.1	MVVW	GWKE AS TO 84.5	POSS AGLC ARK LOCL SML AMPC UNITS-GARS BNDD	65
94.6	2.8	MVW	GWKE AS TO 84.5	POSS AGLC ARK FG 6-8% PY MINOR POSS FEW FINE SPKS CPY	
95.8	1.2	MVVW	GWKE AS TO 84.5	MASS RATHER AGLC APNC-VERY FG LOCL BITOITIC FEW FINE DO STRS	
98.7	2.9	MVW	ARG	SILTY FRACTION APNC-VERY FG DK GY-BK STGL CRBD-STRS FEW GARS MIN PO 6-8% STRS-ALONG BDG PLANES	65
102.5	3.8	MVVW	GWKE AS TO 95.8	RATHER MASS APPEARS GRDD TOPS DOWN HOLE SPKS PO	
105.5	3.0	MVW	GWKE AS TO 84.5	BNDD LOCL RATHER AGLC APNC-FG PO 3-4% AS STRS	60
107.1	1.6	MVW	ARG AS TO 98.7	CLAY NATURE WKLY GRPC CRBD SOME SHRG QTZ PRESS SHADOW A T 106.0 LCCL GWK-ELIKE AT LOWER CT PO VNNG LOCL 6-8%	65
116.8	9.7	MVVW	AMPH	MASS MG LOCL SLLY SLCS BNDD NATURE LOCL GRFR BIOT-CHL SCH IRTC CT STGL CRBD PY-PO MIN PO 1-2% BY MINOR WKLY MTC	65
125.0	8.2	MVVW	GWKE AS TO 84.5	FG BNDD BIOTITIC LOCL QUITE SLCS FEW PO STRS	65
128.1	3.1	MVVW	GWKE AS TO 84.5	IRTD FINE AGLC UNITS VAGUE GRDG POSS TOPS DOWN HOLE	
132.0	3.9		ARK META	AGLC GRNLX CT APNC-FG GY BNDD CRBD BIOTITIC LOCL FEW SML GWKE UNITS-AMPC FEW GARS PY-PO 1% AS STRS	65
138.5	6.5		GWKE AS TO 84.5	GRNLX CT FEW AMPC UNITS	
140.0	1.5	MVVW	ARK AS TO 132.0	AGLC GRNLX CT LOCL BIOT FEW PO STRS	
141.5	1.5	MVVW	GWKE AS TO 84.5	SILTY FINE AGLC VINS-FLAME STRUCTURES	
142.3	0.8	MVVW	ARK AS TO 132.0	RLVL CLEAN GRNLX CT FINE	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				PY STRS	
143.7	1.4	MVW	ARG	AS TO 98.7 APNC SILTY XBDD CNRD SHRD TO LOWER CT-CRBD GRPC-20%	65
				FINE PY 5-8% MINOR PO	
146.3	2.6	MVVW	GWKE	AS TO 84.5 RATHE AGLC SOME IRTD ARG BIOTITIC TO LOWER CT PY	65
				BLBS 1-2%	
148.9	2.6	MVW	ARG	AS TO 98.7 SLLY GRPC TRGT MIN PY-PO	
				PY 8% PO 2% LOCL UP TO	
				15% PY AS STRS & BLBS	
154.5	5.6	MVVW	SCH	PARA FSP-AMPB-BIOT SOME CHL ENDD WELL CRBD FINE STRS FEW SPKS PY-PO	70
161.9	7.4	MVVW	ARK	PLLT( ) FINE SCCS AGLC APNC-VERY FG LOCL BNDD FEW SPKS PO 20% LOST CORE	70
164.5	2.6	MVW	ARG	AS TO 98.7 SILTY GRNLX CT CHL SEAMS CRBD PY-DD 2-3% POSS FEW SPKS CPY	
167.8	3.3	MVVW	ARG	AS TO 98.7 CNRD PY-PO 1% CRBD	45
175.2	7.4	MVVW	SCH	MARL( )BIOT-CHL-CARB 50% AGLC 50% CARB F-MG BNDD FEW PY STRS S SPKS SHARP CT 60	60
177.2	2.0	M	ARG	APNC GY-BK SHARP CT VERY WKLY GRPC BNDD LOCL SLCS MIN PO 50% CHL SEAMS STGL CRBD	70
178.3	1.1	MVVW	ARG	AS TO 177.2 FEW PO SPKS LCCL CHL	
179.3	1.0	MVW	ARG	AS TO 177.2 PY-PO 6-8% WKLY MTC BNDD SOME MT STGL MTC CNRD	60
184.0	4.7	MVVW	ARK	AGLC QTZ-FSP-BIOT DK GY MASS VAGUE BNDG APNC-VERY FG BIOTITIC FINE CARB STRS	60
191.0	7.0		ARK	AS TO 184.0 LOCL MORE SLCS FG	
197.0	6.0		ARG	AS TO 98.5 DK GY APNC-VERY FG FEW PO SPKS FOOT OF HOLE	

CONDUCTIVITY & MAG EXPLANATION TRGT
BORE HOLE-GRPT PO MT

BOREHOLE RECORD
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DATE PROCESSED APR 01,1974

CHK'D.....

BOREHOLE#	PROPERTY	NTS#	SH#	ANOM#	DEPTH	AZIMUTH	DIP	LATITUDE	DEPARTURE	ELEVATION	LEVEL
55327-0	SAKAMI PROJECT	33F 2W			1182	180 00	-45 00	N 250	E 800		

DATE.....

INCLINATION AND TROPARI TESTS

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP
100		-42 30	200		-39 30	300		-37 30	400		-33 00	500		-31 00
600		-27 30	700		-24 00	800		-24 00	900		-18 00	1000		-15 30
1100		-14 00	1182		-11 30									

TOPS OF WEDGES

COMMENTS

LOGGED BY..DEBICKI E J STARTED..JULY 17,1973 COMPLETED..AUG 04,1973 DRILLED INSPIRATION-BBS 3-AQ CORE-PERMIT 548-ZONE 1&2
20 FEET AW CASING & AW CASING SHOE LEFT IN HOLE

SAMPLE ENTRIES

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
0.0	0.0			COLLAR	
				UM TYPE A AS DEFINED IN BH 55303	
19.0	19.0			OVERBURDEN-0 TO 12 FT SAND & GRAVEL-12 TO 19 FEET SMALL BOULDERS-AW CASING TO 20 FEET-START OF CORE	
22.6	3.6		GWKE	META-METADIABASE ( )-MG-GREY GREEN-AMPHIBOLE MICA CHLORITE 40-50%-QTZ FELDSPAR-LOWER CT SHARP-SPKS PY 1%	50
25.0	2.4		QTE	WHITE-LIGHT GREY-QTZ GRITS 10% (ROUNDED) UP TO 0.2 INCHES IN FG SERICITE WHITE SUGARY QTZ MATRIX-SPKS PY 3-4% (PORPHYRITIC RHYOLITE)	50
25.1	0.1		ARG	META-DK BROWN-MG-80% MICA FELDSPAR - SPKS PY 1%-SHARP CTS AT 50	50
26.2	1.1		QTE	AS TO 25.0-SPKS PY 3-4%	50
26.4	0.2		ARG	META-AS TO 25.1	50
30.7	4.3		QTE	AS TO 25.0-SPKS PY 3-4%	50
36.4	5.7		QTE	WHITE-FG-SERICITIC-SPKS PY 1-2% DECREASING DOWNHOLE-LOWER CT SHARP	50
38.8	2.4		GWKE	META-AS TO 22.6-BIOTITE RICH ZONES SPKS PY 1%	50
41.4	2.6		QTE	SIMILAR AS TO 25.0-FEWER QTZ GRITS (PORPHYRIES)-GARNETS-SPKS PY 1%	
42.1	0.7		RDCT	PORPHYRITIC-QTZ FELDSPAR PORPHYRIES 25% (UP TO 0.1 INCH) DECREASING TO 0% DOWNHOLE-FG DK GREY QTZ FELDSPAR MATRIX (ARKOSIC)-LOWER CT IRREGULAR BUT SHARP	
43.1	1.0		QTE	MICACEOUS-FG-MEDIUM GREY GRADING INTO FOLLOWING UNIT	
44.2	1.1		QTE	AS TO 41.4	
44.7	0.5		QTE	AS TO 41.4 INTERBANDED METAGWKE (50%) AS TO 22.6	50
57.7	13.0		QTE	FG-LT GREY-TINGE YELLOW-SERICITIC-IRREGULARILY INTERBANDED INTERFINGERED DARKER GREY QTE (POSSIBLE RDCT-LOCAL	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				LY PORPHYRITIC-GARNETIFEROUS) & PORP HYRITIC RHYOLITE (BUFF GREY-FG-QTZ FELDSPAR PORPHYRIES-SPKS PY 1%	
58.1	0.4		GWKE	META-FG-DK GREEN BROWN-AMPHIBOLE MIC A 75%-QTZ FELDSPAR CHLORITE	50
60.2	2.1		QTE	AS TO 57.7	50
60.4	0.2		GWKE	META-AS TO 58.1	
60.6	0.2		SKN	DIOPSIDE RICH-DK GREEN-CALCITE & QTZ SHARP CTS	
65.9	5.3	MVVW	GWKE	META-AS TO 58.1-SPKS PY 1%-62.7-1 I NCH DIOPSIDE SKARN	45
66.2	0.3	MVVW	GWKE	META-AS TO 58.1-50% QTE BNDS (BEDS) SPKS PY 1%	55
66.8	0.6	MW	IF	SULPHIDE-FG GREY QTZ GRAINS-25% INTE RSTITIAL PY CUBES-2-3% PO SHARP CTS	50
69.6	2.8	MVVW	QTE	AS TO 57.7-SPKS PY 1%	35
73.8	4.2	MW	IF	INTERBANDED SULPHIDE IF (FG-GREY QTZ MATRIX-WELL BEDDED PY CUBES 5-10% PO BNDS & CLOTS 5-10% QTZ BNDS WITH MIN OR SULPHIDE) & OXIDE IF (FG-DK GREY TO BLACK MAGNETITE 5-10%-FINELY LAMI NATED CONTORTED BEDDING-LOCALLY GARN ETIFEROUS)-GRAPHITE LAMINATIONS INCR EASING TO 3-4% DOWNHOLE	55
81.3	7.5	MVVW	QTE	AS TO 57.7-50% DARKER GREY BNDS (POR PHYRITIC RDCT AS TO 42.1)-SPKS PY 1%	
82.2	0.9	MVW	QTE	FG-MEDIUM GREY-MICACEOUS TWC BNDS GA RNETIFEROUS,MORE MAFIC QTE WITH CLOT S PY PO 4-5%	55
88.4	6.2	MVVW	QTE	AS TO 81.3-SPKS PY 1%	55
92.8	4.4		DIA	META-DK GREEN-MG-AMPHIBOLE RICH-FELD SPAR-LOCAL DIOPSIDE SKN-LOWER CT SHA RP AT 55	50
96.1	3.3		QTE	FG-MG-GREY-CHLORITE MICA 5-10%-BEDDE D-SPKS PY 1% & LOCAL BNDS PY 2-3%	55
107.9	11.8		DIA	META-AS TO 92.8 BECOMING FG DOWNHOLE	55
112.9	5.0		QTE	AS TO 57.7	55
117.9	5.0	MVVW	QTE	AS TO 57.7-SPKS PY 1%	55
122.8	4.9	MVW	IF	AS TO 73.8-MORE GARNETIFEROUS ZONES 5-6% PY 7TO 8% PO 7-8% MT-GRAPHITE 1-2%	45
127.7	4.9	MVW	IF	AS TO 122.8 BUT MORE OXIDE IF-PY 5-6 %-PO 8-10%-MT 10-12%-GRAPHITE LAMINA TIONS INCREASING TO 4-5% DOWNHOLE	45
132.7	5.0	MVVW	GWKE	META-AMPHIBOLITIC-FG-DK GREEN-LOCAL BIOTITIC ZONES, SMALL CALCITE VEINS & QTZ RICH ZONES-SPKS PY & ALONG FOT N PLANES 1%	55
141.2	8.5		GWKE	META-AS TO 132.7-FOTD 45 AT 133.6,60 AT 138.2, 55 AT 141.0-OCC PY RICH FO TN PLANES-LOWER CT SHARP 65	
153.0	11.8		RHY	PORPHYRITIC-FG-LT BUFF GREY-QTZ FELD SPAR PORPHYRIES UP TO 0.1 INCH IN FG FELDSPAR RICH MATRIX-WEAKLY FOTD-SPK S PY 1-2% LOWER CT SHARP 6/	60

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
158.2	5.2		GWKE	META-AS TO 22.6-LOWER CT SHARP 55	55
163.2	5.0		RHY	AS TO 153.0-SPKS PY 1-2%	
163.9	0.7		GWKE	META-AS TO 22.6-CALCITE 5%	55
173.1	9.2		RHY	AS TO 153.0-SPKS PY 1-2%	
174.1	1.0		GWKE	META-AS TO 22.6 BUT CG, BIOTITE & AM PHIBOLE RICH	65
183.5	9.4		QTE	SIMILAR AS TO 36.4-MAFIC ZONES LOCAL QTZ VEINS-LOWER CT SHARP	
184.6	1.1		GWKE	META-AS TO 22.6-SPKS PY 1%	
185.9	1.3		QTE	FG-MG-GREY-MICA CHLORITE 5-10% CCC QTZ GRITS-SPKS PY 1%	
194.6	8.7		DIA	META-AS TO 92.8-FG CTS-CG CENTRE-WEA KLY FOTD	60
202.0	7.4	MVW	QTE	AS TO 185.9-SEVERAL BEDS-PY SPKS CLOTS 2-3% AS LOCAL CONCENTRATIONS IN BANDS-WEAKLY FOTD	65
207.3	5.3	MVW	QTE	FG-MG-GREY TO GREY YELLOW CHLORITE 5-6%-LOCAL SERICITIC ZONES-PY CLOTS SPKS 2-3% AS BNDS-LOCAL QTZ GRITS 207.3-207.7-5-10% FUCHSITE FOTN PLANES AT 65	
216.1	8.8	MVW	QTE	AS TO 207.3-LOCAL FUCHSITE-CLOTS SPKS PY 2-3% IN LOCAL CONCENTRATED BNDS	
219.9	3.8	MVW	QTE	(IF)-FG-DK GREY-MICACEOUS RICH (10-15%)-FUCHSITE RICH FOTN PLANES (DECREASING CONTENT DOWNHOLE)-SPKS CLOTS PY 5-6% AS CONCENTRATIONS IN BNDS-MINOR MT LAMINATIONS	65
230.0	10.1	MVW	IF	SIMILAR AS TO 219.9 BUT NC FUCHSITE-MINOR TREMOLITE-BNDD WEAKLY-BNDD SPKS PY 1-2% & MT LAMINATIONS 3-4% IN CONCENTRATED ZONES-INTERLAYERED QTZ (QTE) RICH BNDS	65
237.5	7.5	MVW	IF	AS TO 230.0-PY 1-2%-MT 1-2%	65
244.7	7.2	MVW	IF	AS TO 230.0-PY 1-2% MT 4-5%	65
245.2	0.5	MVVW	QTE	FG-GREY-MINOR MICA-FUCHSITE RICH FOTN PLANES-SPKS PY 1%	
247.2	2.0	MVVW	QTE	AS TO 185.9-SPKS PY 1%	
247.5	0.3	MVVW	MTSD	CG-DK BROWN-90% LARGE BIOTITE BOOKS SPKS PY 1%-MINOR QTE BNDS	
248.3	0.8	MVVW	QTE	AS TO 207.3-FUCHSITE 5-10% (INCREASING CONTENT DOWNHOLE)-SPKS PY 1%	65
248.4	0.1	MVVW	MTSD	CG-DK BROWN BIOTITE & CHLORITE-MINOR QTE-SIMILAR AS TO 247.5-SPKS PY 1%	
249.9	1.5	MVVW	QTE	FG-GREY-5-10% MICA CHLORITE ALONG FOTN PLANES-SPKS PY 1%-11-17 CPS	65
252.7	2.8	MVVW	QTE	AS TO 249.9 BUT 75% QTZ VEINING (TRANSLUCENT)-SPKS PY 1%-11-29 CPS	
253.1	0.4	MVW	QTE	AS TO 249.9 WITH MICA CHLORITE STRS (SELVAGE LIKE)-25-30% QTZ VEINING-SPKS PO PY 1%-70-80 CPS AT 252.9-90-115 CPS AT 253.0	
259.0	5.9	MVVW	QTE	AS TO 249.7-50% QTZ VEINING-SPKS PY 1%-9-30 CPS-257.3-1 INCH MASSIVE PO PY IRREGULAR BND INTERSTITIAL TO QTZ	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				GRAINS	
263.9	4.9		LC	GROUND CORE	
265.0	1.1		QTZ	VEIN-MASSIVE-TRANSLUCENT	
269.7	4.7		QTE	MG-CG-WHITE-LT GREY-NUMEROUS QTZ GRI TS-MASSIVE	
272.6	2.9		QTE	LT YELLOW GREY-FG-MICA CHLORITE 5% SERICITIC-WEAKLY FOTD-MINOR QTZ VEIN ING	65
277.6	5.0	MVVW	QTE	AS TO 272.6-SPKS PY 1%-8-25 CPS	65
278.0	0.4	MVW	QTE	AS TO 272.6-MICA CHLORITE 10-15%-WEA KLY FOTD-SPKS PY 1%-44-66 CPS AT 27 7.7-78-88 CPS AT 277.9	65
283.3	5.3	MVVW	QTE	FG-LT PALE GREEN-HIGHLY CHLORITIC & SERICITIC-LOCAL METAGWKE (MG-DK GREY CHLORITE MICA RICH-GARNETS-BEDDING SLIGHTLY CONTORTED)-SPKS PY 1%-9-15 CPS	70
283.5	0.2	MVVW	QTE	AS TO 283.3-25% MICA CHLORITE BNDS-SPKS PY PO 1%	
285.1	1.6	MVVW	QTE	FG-GREY-MICACEOUS-FELDSPATHIC-(META-ARKOSE INTERLAYERS)-TRACE FUCHSITE-SPKS PO PY 1% 585.0-0.2 INCH QTE BED-SMALL CLOTS PO 3-4%-CP 3-4%	
286.3	1.2	MVW	ARK	META-FG-GREY-BROWN-MICACEOUS INTERLA YERED & INTERFINGERED QTE BNDS WITH SPKS PY PO 1%	70
287.6	1.3	MVW	QTE	AS TO 285.1-NUMEROUS FUCHSITE RICH FOTN PLANES-SLUMPING, INTERFINGERING OF LAMINATIONS-BEDS-SPKS PY PO 1%	70
291.4	3.8	MVW	ARK	META-AS TO 286.3-SPKS PY PO 1% IN QT E BANDS	
297.4	6.0	MVW	IF	SIMILAR AS TO 230.0-QTZ RICH-LOCAL AMPHIBOLITIC ZONES-GARNETS-LAMINATED ZONES MT 5-6% 293.5-294.5 50% GARNET S (UP TO 0.5 INCHES) & AMPHIBOLE-SPK S PY PO 1%	80
302.1	4.7	MVW	QTE	MICACEOUS-FG-GREY-AMPHIBOLITIC BNDS INCREASING DOWNHOLE-GARNETS-FOTD 80 TO 65 DOWNHOLE SPKS PY PO 1-2%	
307.2	5.1	MVW	QTE	FG-GREY-QTZ MASSES (ELONGATED INDIST INCT PEBBLES UP TO 0.5 INCHES-50%) IN FG SELVAGE LIKE MICA CHLORITE-GAR NETS-ZONES SPKS PY PO 3-4% LOCAL NON PEBBLY ZONES 25% (MICA CHLORITE 5 TO 10%)	
312.1	4.9	MVVW	QTE	FG-GREY-5-10% MICA CHLORITE-LOCAL PE BBLY QTZ ZONES 25% AS TO 307.3-SPKS PY PO 1%	70
312.7	0.6		QTE	AS TO 248.3	
315.5	2.8		QTE	AS TO 307.3-PEBBLES LESS DISTINCT-N/N-PEBBLY ZONES 50%	
327.9	12.4		RHY	AS TO 153.0-SPKS PY 1-2%	60
328.1	0.2		ARK	META-MICACEOUS-FG-GREY-BROWN	60
329.8	1.7		QTE	FG-GREY-GRANULAR-CHLORITIC FOTN PLAN	60

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				ES	
330.3	0.5		AMPH	FG-MG-DK GREEN-95% AMPHIBOLE-GARNETIFEROUS CTS	
332.3	2.0		QTE	AS TO 329.8-MORE MICA CHLORITE SERICITIC FOTN PLANES	55
334.1	1.8		AMPH	MG-DK GREEN-INTERLAYERED BRCWN FG VOLCANIC (15-20%)-LOCAL DIOPSIDE SKARN 10%	55
337.2	3.1		QTE	FG-DK GREY-15-20% MICA CHLORITE MAINLY ALONG FOTN PLANES-60 TO 70 DCWNHOLE-GARNETS-LAMINATED & INTERFINGERED	
339.4	2.2		QTE	FG-GREY-5-10% CHLORITE MICA FOTN PLANES-LOCAL MASSIVE QTZ RICH ZONES	65
342.7	3.3		QTE	FG-GREY-SLIGHTLY YELLOW-5-10% SERICITE (MINOR MICA CHLORITE)	65
350.3	7.6		QTE	FG-MG-GREY-MASSIVE-TRANSLUCENT (POSSIBLE QTZ VEIN)-5% MICA CHLORITE INCLUSIONS-SPKS PY 1%-LOWER CT SHARP 60	
381.7	31.4		DIA	META-METAGABBRO-GREY-GREEN-CG AMPHIBOLE & FELDSPAR-YOUNGER TYPE METADIABASE -FOTD 50-60-LOWER CT SHARP-NUMEROUS QTZ STRS-SPKS PY 1%-LOCAL DIOPSIDE SKARN	
390.3	8.6		DIA	META-AS TO 92.8-LOCAL INJECTED ZONES METADIABASE AS TO 381.7-LOCAL PY RICH PLANES	
397.4	7.1	MVVW	QTE	FG-MG-GREY-5-10% BLACK MICA STRS GIVING INDISTINCT PEBBLY APPEARANCE-MORE TRANSLUCENT,LESS MAFIC DCWNHOLE 394.8-397.1-BIOTITE FILLED FRACTURE AT 0 DEGREES-SPKS PY 1%-9-15 CPS	70
399.5	2.1	MVW	QTE	AS TO 397.4-LESS TRANSLUCENT-SPKS PY 1-2%-PO 1-2%-48-60 CPS AT 397.5 28-38 CPS AT 398.0 54-68 CPS AT 398.3 11-17 CPS AT 390.3	70
400.1	0.6	MVW	QTE	FG-DK GREY-10-15% MICA CHLORITE-INDISTINCT BANDING-SPKS CLOTS PY PO 3-4% 82-96 CPS AT 399.6, 17-24 CPS 400.1	70
406.6	6.5	MVVW	GWKE	META-MG-GREY-BIOTITE RICH-GARNETS-MINOR AMPHIBOLE-TREMOLITE ANTHOPHYLLITE MICA SCHIST ZONES-LOCAL ZONES NUMEROUS BIOTITIC BNDS (FOTN PLANES) & BIOTITE EYES 65-70 BNDD (BEDDED) DUE TO COMPOSITIONAL VARIATIONS-SPKS PY 1%	
406.9	0.3		DIA	META-AS TO 381.7	
409.0	2.1		GWKE	META-METADIABASE-MG-GREY GREEN-AMPHIBOLE BIOTITE EYES (ELONGATED IN PLANE OF FOTN)-FELDSPAR RICH MATRIX-BIOTITIC ZONES	65
413.2	4.2		DIA	META-SIMILAR AS TO 381.7-FG-LOCAL METAGWKE BNDS	65
418.8	5.6		GWKE	META-AS TO 406.6-NO GARNETS	70
419.6	0.8		DIA	META-AS TO 413.2	
419.9	0.3		GWKE	META-CG-DK GREEN BROWN-MASSIVE-LARGE	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				AMPHIBOLE NEEDLES & MICA BOOKS	
420.5	0.6		DIA	META-AS TO 413.2	
421.9	1.4		GWKE	META-AS TO 418.8-NUMEROUS BIOTITE CL OTS-MORE AMPHIBOLE BIOTITE DOWNHOLE 421.2-0.5 INCH QTZ VEIN (50%-BIOTITI C INCLUSIONS)	70
438.5	16.6		QTE	MICACEOUS (10%)-FELDSPATHIC (10%)-FG MG-MEDIUM GREY-UNIFORM THROUGHOUT-LO CAL RHY BNDS AS TO 153.0-4 INCH QTZ VEIN AT 434.3	
439.5	1.0		QTE	MG-MEDIUM GREY-CHLORITIC FOTN PLANES	60
439.9	0.4		QTE	AS TO 439.5-VITREOUS QTZ BNDS (VEINS) AT 60	60
441.0	1.1		ARK	META-(NON PORPHYRITIC RDCT)-MICACEO US-LOCAL IRREGULAR QTE BNDS (MICACEO US)-WEAKLY FOTD	70
441.3	0.3		RDCT	PORPHYRITIC-WHITE BUFF GREY-QTZ FELD SPAR PORPHYRIES 50-60%-FG PALE GREY GREEN MATRIX	
442.4	1.1		ARK	META-AS TO 441.0	70
442.5	0.1		GWKE	META-AS TO 419.9	
442.9	0.4		GWKE	META-AS TO 418.8	
444.1	1.2		ARK	META-AS TO 441.0	
449.6	5.5		GWKE	META-AS TO 409.0-LOCAL AMPHIBOLE RIC H ZONES	65
453.0	3.4		GWKE	META-AS TO 406.6-GRADES INTO FOLLOWI NG UNIT	65
456.8	3.8		GWKE	META-AS TO 418.8	60
459.3	2.5		GWKE	META-AS TO 409.0	65
462.1	2.8		DIA	META-AS TO 381.7	
463.2	1.1		GWKE	META-AS TO 409.0	75
464.3	1.1		DIA	META-AS TO 381.7	
465.6	1.3		GWKE	META-AS TO 409.0	75
467.8	2.2		GWKE	META-AS TO 406.6-MORE AMPHIBOLITIC-L OWER CT SHARP	
469.7	1.9		ARK	META-AS TO 441.0-LOWER CT GRADATIONA L INTO FOLLOWING UNIT	
479.1	9.4		GWKE	META-AS TO 406.6-LOCAL AMPHIBOLITIC ZONES-LOWER CT SHARP-75 TO 60 DOWNHO LE	
480.0	0.9		GAB	META-(METADIABASE)-SIMILAR AS TO 38 1.7-MORE MAFIC (AMPHIBOLITIC) ZONES	
480.6	0.6		GWKE	META-AS TO 406.6-AMPHIBOLITIC-LOWER CT SHARP	
505.8	25.2		DIA	META-AS TO 381.7-LOCAL DIOPSIDE SKAR N BANDS	
507.4	1.6		VOLC	ANDESITE-BASALT-FG-DK GREEN-VERY WEA KLY FOTD-AMPHIBOLE & FELDSPAR	65
508.4	1.0		DIA	META-AS TO 381.7-50% DIOPSIDE SKN	
509.2	0.8		VOLC	AS TO 507.4-WEAKLY FOTD-LOWER CT SHA RP	70
509.7	0.5		ARK	META-AS TO 441.0-LOWER CT SHARP	
525.5	15.8		DIA	META-AS TO 381.7-LOCAL WEAKLY FOTD ZONES	70
525.9	0.4		QTE	FG-GREY-GREEN-5-10% CHLORITE MICA-MI	70

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				NOR QTZ GRITS-SHARP CTS	
527.8	1.9		DIA	META-AS TO 381.7	
527.9	0.1		QTZ	VEIN	
528.1	0.2		GWKE	META-AMPHIBOLITIC-FG-DK GREEN-90% AM PHIBOLE-MINOR MICA-LOWER CT SHARP	
532.2	4.1		VOLC	AS TO 507.4-NOT AS DK GREEN-LOWER CT SHARP AT 70	70
532.4	0.2		GWKE	META-FG-GREY GREEN-AMPHIBOLE FELDSPA R & MICA-LOCAL QTZ RICHER BNDS-SPKS PY 1%	70
534.2	1.8	MVVW	GWKE	AS TO 418.8-BIOTITE RICH BNDS-SPKS PY 1%	70
534.4	0.2	MVVW	GWKE	META-AS TO 526.1-SPKS PY 1%	
535.1	0.7	MVW	QTE	FG-GREY-60%-DK GREEN-IRREGULAR AMPHI BOLITIC BNDS & MICA EYES-SPKS & CLOT S 4-5% SPHALERITE (RED-BROWN), PO 2-3%,SPKS PY 1%-LOWER CT SHARP AT 70	70
540.0	4.9	MVVW	ARK	META-AS TO 441.0-1-2% SMALL CALCITE CLASTS (PORPHYRIES)-WEAKLY FOTD-IND ISTINCT BANDING (SLIGHT COMPOSITION VARIATIONS)-SPKS PY 1%	70
546.9	6.9		ARK	META-AS TO 540.0-SPKS PY 1%	
548.1	1.2		GWKE	META-AS TO 409.0-25% DIOPSIDE SKN BN DS-LOWER CT SHARP	
552.7	4.6		DIA	META-AS TO 381.7-LOWER CT SHARP	
557.3	4.6		GWKE	META-AS TO 418.8	70
559.2	1.9		DIA	META-AS TO 381.7	
560.1	0.9		GWKE	META-AS TO 418.8	70
563.6	3.5		RDCT	PORPHYRITIC-QTZ FELDSPAR PORPHYRIES 25-30% (0.1 INCHES)-FG DK GREY FELD SPAR MICA MATRIX	70
563.7	0.1		GWKE	META-AS TO 418.8	
564.0	0.3		GWKE	META-AS TO 409.0-SHARP CTS	
564.3	0.3		ARK	META-FG-GREY-MICACEOUS-MINOR TREMOLI TE NEEDLES-SHARP CTS	70
565.8	1.5		DIA	META-AS TO 381.7	
570.0	4.2		ARK	META-AS TO 564.3-LESS MICA DOWNHOLE SPKS PY PO 1%-LOWER CT SHARP	70
593.2	23.2		GAB	META-(METADIABASE)-SIMILAR AS TO 38 1.7-MORE MAFIC (AMPHIBOLITIC)-MASSIV E-LOCAL WELL DEVELOPED BROWN AMPHIBO LES UP TO 0.5 INCHES (SECONDARY)	
600.7	7.5		QTZ	VEIN	
622.2	21.5		GAB	META-AS TO 593.2-LOWER CT SHARP	
623.1	0.9		ARK	META-FG-GREY-TREMOLITIC-WEAKLY FOTD UNIFORM THROUGHOUT	65
633.1	10.0		GAB	META-AS TO 593.2	
633.4	0.3		QTE	MG-GREY-GREEN-10-15% CHLORITE-TREMOL ITE NEEDLES INTERSTITIAL TO QTZ GRAI NS-SHARP CTS	
666.4	33.0		GAB	META-AS TO 593.2	
686.5	20.1		DIA	AS TO 381.7	
687.1	0.6		VOLC	AS TO 507.4-40% FELDSPAR-CTS SHARP	
688.6	1.5		DIA	META-AS TO 381.7-LOWER CT SHARP	
689.5	0.9		VOLC	AS TO 687.1-LOWER CT SHARP	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
698.0	8.5		DIA	META-AS TO 381.7-LOWER CT SHARP 60	
708.4	10.4		RHY	AS TO 563.6-LOWER CT SHARP 60	
723.8	15.4		DIA	META-AS TO 381.7	
734.8	11.0		GWKE	META-AS TO 409.0-LOCAL ZONES METADIA BASE AS TO 381.7-LOWER 0.8 INCHES OF UNIT AMPHIBOLITIC	
737.9	3.1		QTE	MG-GREY-GRANULAR (MINOR GRITS)-SERICITE CHLORITE RICH FOTN PLANES-5-10% MAFICS (MICA CHLORITE)-736.1-737.9-60% QTZ VEINING	75
743.4	5.5		QTE	SERICITIC-LIGHT YELLOW GREY-FG-MINOR MAFICS(1%)-LOWER CT SHARP-FOTD 70 AT 740.2 & 60 AT 741.2 (X-BEDDING)	
744.9	1.5		QTE	FG-MG-MEDIUM GREY-GRANULAR (LOCALLY MASSIVE)-10-15% MICA CHLORITE-LOWER CT SHARP 80	
760.3	15.4		RHY	QTE -SIMILAR AS TO 57.7-SLLY PORPHYRITIC-SPKS PY 1-2% LOWER CT SHARP	
763.2	2.9		QTE	AS TO 743.4-LOWER CT SHARP	70
763.7	0.5		QTE	AS TO 744.9-LOWER CT SHARP	
765.5	1.8		QTE	AS TO 743.4	80
766.6	1.1		DYKE	MAFIC-MG-BLACK-EQUIGRANULAR-10-15% BIOTITE-INTRUSION OF DYKE MATERIAL INTO QTE AT 0 DEGREES (6 INCHES) AT EITHER CT WITH SPKS PY 1%	
767.6	1.0		QTE	FG-GREY-5-10% MAFICS (BIOTITE CHLORITE)-SPKS PY 1% IN BIOTITE BNDS	70
771.7	4.1		QTE	AS TO 743.4-CTS SHARP	70
772.6	0.9		QTE	FG-GREY-SERICITIC FOTN PLANES 4-5% MICA CHLORITE	
774.2	1.6		QTE	AS TO 743.4-MAFICS UP TO 5%-INDISTINCT FOTN	70
775.5	1.3		QTE	AS TO 767.6	70
779.3	3.8		QTE	AS TO 772.6	
781.8	2.5		QTE	AS TO 774.2-IRREGULAR QTZ VEINING-LOCAL GARNETS	70
782.8	1.0		QTZ	VEIN-WHITE TO TRANSLUCENT-MASSIVE 792.4-QTE BND (1 INCH) AS TO 744.9 GARNETS	
786.1	3.3		QTE	AS TO 767.6	70
787.0	0.9		QTE	AS TO 772.6-50% TRANSLUCENT QTZ VEINING	70
788.6	1.6		QTE	AS TO 744.9-25% QTZ VEINING	
791.9	3.3		QTE	AS TO 774.2-GRADES INTO NEXT UNIT	70
795.9	4.0		QTE	AS TO 767.6-MORE MAFIC DOWNHOLE-GRADES INTO NEXT UNIT-WEAKLY FOTD	70
796.8	0.9		QTE	AS TO 772.6	70
798.3	1.5		QTE	AS TO 772.6-GRADES INTO NEXT UNIT	
811.2	12.9		GWKE	META-SEQUENCE OF BEDS AS TO 406.6-NUMEROUS GARNETS-BIOTITIC AMPHIBOLITIC ZONES-408.8-409.5-SEDIMENTARY SLUMPING (CONTORTED VERY COARSE GRAINED AMPHIBOLE CLUSTERS)	70
811.8	0.6		GWKE	META-AS TO 406.6-NO GARNETS	70
812.0	0.2		GWKE	META-AMPHIBOLITE-CG-DK GREEN-25% FEL	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				DSPAR	
812.4	0.4		GWKE	META-AS TO 406.6-NO GARNETS	70
817.7	5.3		GWKE	META-AS TO 406.6-OCC GARNETS	70
822.7	5.0		SKN	DIOPSIDE-MG-CG-GREY GREEN-CALCITE RI CH-TRANSLUCENT TO OPAQUE QTZ (VWINS) BNDS-LOCAL BNDS BROWN STAINED QTZ	70
823.3	0.6		ARK	META-FG-GREY BROWN-MICACEOUS	70
828.3	5.0		SKN	AS TO 822.7-NOT WELL BANDED (LESS QT Z VEINING)-827.1-1 INCH AMPHIBOLITE BAND WITH 0.1 INCH MT BND & CLOTS PO 1-2%	
829.5	1.2		GWKE	META-AS TO 593.2-1 INCH SKN END AT 829.0	
830.2	0.7		GWKE	META-AS TO 409.0	70
831.2	1.0		ARK	META-MICACEOUS-FG-(SLIGHTLY BROWN)-G REY-VERY WEAKLY FOTD	70
832.2	1.0		GWKE	META-AS TO 812.0	
833.4	1.2		DIA	META-AS TO 92.8	
840.7	7.3		SKN	DIOPSIDE AS TO 828.3-836.3 TO 837.3-FINER GRAINED-LESS CALCITE 837.9-840.7-CG DIOPSIDE-LESS CALCITE	
857.6	16.9		UM	TYPE A-MASSIVE-SERPENTINIZED-LOCAL ZONES 75% LONG FIBROUS UNORIENTED BL ACK OLIVINE NEEDLES-LOCAL FLOW CTS MT 5-6%	
861.9	4.3		UM	MASSIVE-TALCOSE-GREY-LOCAL TREMOLITE SEAMS-MT 1%	
888.7	26.8		PEG	GRANITE-CG-WHITE-LOCAL PINK STREAKS-CRYSTALLINE-10-15% QTZ-2-3% BLACK AM PHIBOLES-SMALL FRACTURES	
903.8	15.1		VOLC	AS TO 507.4-WEAKLY FOTD-BIOTITIC ZON ES	70
907.6	3.8		AMPH	VFG-MG-DK GREEN-MASS-POSSIBLE ALTERE D UM-LOCAL GARNETS-MT CUBES 4-5%	
924.8	17.2		VOLC	AS TO 507.4-WEAKLY FOTD 7C	
927.8	3.0		GWKE	AS TO 406.6	70
928.1	0.3		AMPH	AS TO 907.6-MT CUBES UP TO C.2 INCHE S 4-5%	
929.1	1.0		SKN	DIOPSIDE CALCITE RICH-CG	
933.6	4.5		UM	MG-GREY-TREMOLITE-10-15% CARBONATE-MT 2-3% LOCAL SKN BNDS	
934.0	0.4		AMPH	AS TO 907.6-ONE MT CUBE 0.8 INCHES	
935.6	1.6		SKN	AS TO 929.1	
972.0	36.4		DIA	META-AS TO 92.8-LOWER CT SHARP	
973.5	1.5		RDCT	QTE -SIMILAR AS TO 57.7-5-10% INDIST INCT PORPHYRIES-LOWER CT IRREGULAR	
977.1	3.6		DIA	META-AS TO 92.8-FG-FOTD-BIOTITIC CTS LOWER CT SHARP 75	70
985.2	8.1		RDCT	QTE -SIMILAR AS TO 57.7	
986.3	1.1		AMPH	SIMILAR AS TO 907.6-BIOTITE RICH BEC OMING AMPHIBOLE RICH DOWNHOLE	
987.9	1.6		UM	AS TO 933.6	
994.9	7.0		UM	60-75% LONG OLIVINE NEEDLES-FG GREY TALCOSE MATRIX-SHARP CTS-MT 3-4%	
995.8	0.9		UM	AS TO 933.6-MT 1%	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
996.2	0.4		UM	SIMILAR AS TO 933.6-CG-TREMOLITIC	
997.2	1.0		SKN	AS TO 929.1	
998.8	1.6		SKN	AS TO 822.7-NUMEROUS BNDS BRCWN COLC URED STAIN (FE)	
999.2	0.4		AMPH	AS TO 907.6-MT 10-12%	
1001.2	2.0		SKN	AS TO 822.7-LOCAL BNDS UM (9C7.6)	
1002.4	1.2		UM	AS TO 907.6-MT 3-4%	
1014.9	12.5		UM	AS TO 994.9-MT 1-2%	
1017.0	2.1		UM	AS TO 907.6-MT 2-3%	
1017.6	0.6		SKN	AS TO 929.1	
1019.8	2.2		SKN	AS TO 822.7	
1029.7	9.9		SKN	AS TO 822.7-INTERBANDS AS TC 929.1	
1037.3	7.6		GWKE	META-INTERBANDED BEDS (COMPCSITIONAL VARIATIONS)-AMPHIBOLE RICH (MG GREEN) & BIOTITE RICH-LOCAL QTZ RICH ZONE S (FG-MG-BROWN GREEN)	
1038.7	1.4		QTE	FG-GREY-MASSIVE-GRANULAR-5-1C% MICA CHLORITE (MAINLY STRS)-LOCAL QTZ RIC H ZONES-NUMEROUS SMALL FRACTURES	
1044.6	5.9		GWKE	META-AS TO 1037.3-LOWER CT SHARP	70
1048.8	4.2		QTE	AS TO 1038.7	70
1057.7	8.9		RDCT	QTE -SIMILAR AS TO 57.7	70
1058.6	C.9		QTE	FG-GREY-MASSIVE-GRANULAR-MICA CHLORI TE 1-2%-LOWER CT SHARP 75	
1063.7	5.1		RDCT	AS TO 105.7	
1063.9	0.2		GWKE	META-AS TO 1037.3	75
1064.2	0.3		RDCT	AS TO 1057.7-LOWER CT SHARP 75	
1066.5	2.3		GWKE	META-AS TO 1037.3-BNDS AS TC 409.0	75
1075.1	8.6		RDCT	AS TO 1057.7	
1079.8	4.7		QTE	AS TO 1038.7-LOWER CT SHARP	
1084.1	4.3		RDCT	AS TO 1057.7	
1092.8	8.7		QTE	AS TO 737.9-LESS MAFIC MORE SERICITI C DCWNHOLE	80
1101.9	9.1		QTE	AS TO 772.6-LOCAL MAFIC RICH BNDS (8 EDS)-FCTD 50 TO 80 DCWNHOLE	
1102.1	0.2		GWKE	META-FG-MG-DK BROWN-BIOTITE RICH	
1103.1	1.0		QTE	AS TO 737.9	75
1110.1	7.0		QTE	AS TO 772.6-LOCAL MAFIC BNDS	75
1113.1	3.0		QTE	MICACEOUS-FG-MG-GREY	
1117.7	4.6		RDCT	AS TO 563.6-LOWER CT SHARP	80
1118.6	0.9		ARK	META-AS TO 831.2-LOWER CT SHARP	80
1124.5	5.9		GWKE	META-AS TO 1037.3-1122.5 TC 1123.7 B EDDING CONTORTED (SLUMPING)	
1126.6	2.1		ARK	META-AS TO 831.2	
1127.0	0.4		GWKE	META-AS TO 1037.3-CONTORTED BEDDING	
1141.4	14.4		RDCT	AS TC 563.6	
1145.4	4.0		GWKE	META-METADIABASE-BIOTITIC-SIMILAR AS TO 409.0	
1145.9	0.5		GWKE	META-AS TO 1037.3	
1146.4	0.5		SKN	AS TO 929.1	
1147.2	0.8		GWKE	META-AS TO 1037.3-50% SKN AS TO 929. 1	
1147.7	0.5		AMPH	LARGE BLACK HORNBLENDE IN FG CK GREE N AMPHIBOLE MATRIX	
1149.0	1.3		UM	AS TO 933.6-MT 1%	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
1152.1	3.1		SKN	AS TO 929.1	
1152.8	0.7		UM	AS TO 933.7-MT 2-3%	
1156.8	4.0		RDCT	AS TO 1057.7-LOCAL QTZ BNDS WITH BLA	
				CK HORNBLEND CRYSTALS UP TO 0.2 INCH	
				ES-1154.2-PY RICH FRACTURE PLANE	
1182.0	25.2		DIA	META-AS TO 92.8- FOOT OF HOLE	70
				SPECTROMETER READINGS WITH SCINTREX	
				GIS-3 NUMBER 905 107	
				THIN SECTIONS AT 23.1 218.3 229.4	
				333.3 402.5 765.9 931.7 998.0	

BOREHOLE RECORD
****

DATE PROCESSED APR 01,1974

CHK'D.....

BOREHOLE#	PROPERTY	NTS#	SH#	ANOM#	DEPTH	AZIMUTH	DIP	LATITUDE	DEPARTURE	ELEVATION	LEVEL
55328-0	SAKAMI LAKE	33F 9E		40	97	165 00	-45 00	S 645	W 1200		

DATE.....

INCLINATION AND TROPARI TESTS

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP

TOPS OF WEDGES

LOGGED BY..YURIY B STARTED..JULY 18,1973 COMPLETED..JULY 20,1973

COMMENTS

DRLD T.WAKEGIJIG EXT CR ANOM.'S 40,51,& 54 PERMIT NO. 551 THF 3219 ALL CAS RECOVERED

SAMPLE ENTRIES

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
0.0	0.0			COLLAR	
97.0	97.0			EW CAS 90.0 FT RODS TO 97.0 FT OB	
				CLAY & GRVL HOLE ABANDONED-CDCR OVER	
				SHOT IN OB DRILL MOVED BACK TO 12W/	
				6+20S	
				FOOT OF HOLE	

BOREHOLE RECORD
****

DATE PROCESSED APR 01,1974

CHK'D.....

BOREHOLE#	PROPERTY	NTS#	SH#	ANOM#	DEPTH	AZIMUTH	DIP	LATITUDE	DEPARTURE	ELEVATION	LEVEL
55329-0	SAKAMI PROJECT	33F 2W			763	180 00	-45 00	S 1800	W 14000		

DATE.....

INCLINATION AND TROPARI TESTS

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP
100		-42 30	200		-35 30	300		-29 00	400		-15 30	500		-13 00
600		-11 30	700		-10 00									

TOPS OF WEDGES

COMMENTS

LOGGED BY..DEBICKI E J STARTED..JULY 20,1973 COMPLETED..JULY 29,1973 DRILLED INSPIRATION EPS 1-AQ CORE-PERMIT 547-ZONE 4
32 FEET AW CASING & AW CASING SHOE LEFT IN HOLE

SAMPLE ENTRIES

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
0.0	0.0			COLLAR	
				UM TYPES A & C AS DEFINED IN BORE	
				HOLE 55303	
32.0	32.0			OVERBURDEN-SAND & SMALL BOULDERS-AW	
				CASING TO 34.0 FEET-START OF CORE	
46.6	14.6		DIA	META-MG-GREY GREEN-AMPHIBOLE & FELDS	
				PAR	
47.1	0.5		SKN	CG-PALE GREEN-DIOPSIDE & CALCITE RIC	
				H-MINOR QTZ	
49.4	2.3		VOLC	ANDESITE-BASALT-AMPHIBOLITIC-FG-DK G	40
				REEN-LOCAL SKN BNDS 25%-LOWER CT SHA	
				RP BUT INDISTINCT	
50.2	0.8		QTE	FG-MG-GREY-GRANULAR-10-15% CHLORITE	
				MICA-LOWER CT SHARP AT 40	
50.5	0.3		GWKE	META-AMPHIBOLITIC-MG-DK GREEN-AMPHIB	55
				OLE RICH-MINOR FELDSPAR	
62.6	12.1		QTE	AS TO 50.2-LESS MAFIC DOWNHOLE-LOCAL	45
				QTZ RICH & WEAKLY FOTD ZONES	
78.2	15.6		QTE	FG-MG-GREY-MAFICS 5-10% MAINLY AS SM	
				ALL BNDS ALONG FOTN PLANES-LOCAL WEA	
				KLY SERICITIC & LESS MAFIC ZONES-FOT	
				D 55 AT 72.7, 40 AT 74.5, 35 AT 77.8	
80.5	2.3	MVVW	QTE	AS TO 78.2-LOWER CT SHARP 30-SPKS PY	
				1%-9-13 CPS	
81.0	0.5	MVVW	GWKE	AS TO 50.5-COARSER GRAINED-SPKS PY	30
				1%	
83.2	2.2	MVVW	QTE	AS TO 78.2-SPKS PY 1%-22-29 CPS AT	
				81.7, 9-13 CPS AT 82.7	
83.6	0.4	MVVW	QTE	AS TO 78.2-10-15% MAFIC RICH FOTN PL	
				ANES-OCC QTZ GRITS-SPKS PY 1%-46-56	
				CPS AT 83.3, 50-64 CPS AT 83.5	
88.6	5.0	MVVW	QTE	AS TO 78.2-FOTD 50 TO 40 DOWNHOLE-SP	
				KS PY 1%-86.5-86.9-CG-GRANULAR-GRIT	
				TY QTE BED WITH HEMATITE STAINING (5	
				%)-9-13 CPS-30-42 CPS AT 85.1	
97.5	8.9		QTE	AS TO 78.2-WEAKLY FOTD	40
101.6	4.1		QTE	SIMILAR AS TO 78.6-WELL FOTD (MAFIC	40

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				RICH FOTN PLANES)-LOWER CT SHARP	40
112.6	11.0		DIA	META-AS TO 46.6-LOWER CT SHARP 40 110.7-112.6-LOCAL SKN & QTE BNDS	
119.9	7.3		QTE	AS TO 78.6-VERY WEAKLY FOTD-LOCAL BN DS DK GREEN NUMEROUS STRS AMPHIBOLE	40
122.3	2.4		QTE	MG-BUFF GREY-GRANULAR-5% MICA CHLORITE-5-10% HEMATITE STAINING-LOWER CT SHARP	
136.4	14.1		QTE	FG-MG-LIGHT GREY-SERICITIC-4-5% MAFICS MAINLY AS MICA CHLORITE RICH FOTN PLANES & BNDS-LOWER CT SHARP	40
138.5	2.1		DIA	META-AS TO 46.6-CTS WEAKLY FOTD	40
143.0	4.5		QTE	AS TO 78.2	50
144.0	1.0		QTE	AS TO 136.4	
144.5	0.5		QTE	AS TO 122.3	
151.1	6.6		QTE	AS TO 78.2-32-40 CPS AT 46.8	60
153.8	2.7		QTE	AS TO 136.4	
155.2	1.4		QTE	AS TO 78.2	50
156.9	1.7		QTE	AS TO 122.3	
158.5	1.6	MVVW	QTE	AS TO 78.2-SPKS PY 1%-9-13 CPS	50
163.6	5.1	MVVW	QTE	AS TO 78.2-WEAKLY FOTD-SPKS PY 1% 44-54 CPS AT 158.8, 26-36 CPS AT 159.1, 9-13 CPS AT 159.9, 28-36 CPS AT 160.3, 17-22 CPS AT 161.0, 30-42 CPS AT 161.3, 9-13 CPS AT 16 .0, 11-17 CPS AT 163.3	50
166.8	3.2	MVVW	QTE	AS TO 78.2-WEAKLY FOTD-SPKS PY 1% 58-70 CPS AT 163.7, 100-130 CPS AT 164.0, 30-40 CPS AT 164.4, 68-78 CPS AT 165.6, 17-25 CPS AT 166.4, 20-36 CPS AT 166.7	50
167.6	0.8	MVVW	QTE	AS TO 78.2-HIGHER MAFIC CONTENT-SPKS PY 1%-50-60 CPS AT 166.9, 42-52 CPS AT 167.1, 64-78 CPS AT 167.5	
169.0	1.4	MVVW	QTE	AS TO 78.2-SPKS PY 1%-28-36 CPS AT 167.8, 17-22 CPS AT 168.5	
169.4	0.4	MVVW	QTE	AS TO 136.4-SPKS PY 1%-17-22 CPS	50
171.9	2.5	MVVW	QTE	AS TO 78.2-SPKS PY 1%-17-22 CPS ATK 170.1, 22-27 CPS AT 171.6, 34-46 CPS AT 171.8	50
175.2	3.3		QTE	AS TO 78.2-20-30 CPS-LOWER CT SHARP	50
180.7	5.5		DIA	META-AS TO 46.6-WEAKLY FOTD-SPKS PO 1%-WEAKLY MAGNETIC-LOWER CT SHARP & IRREGULAR	50
182.7	2.0		QTE	AS TO 50.2-25-30% DK GREEN AMPHIBOLITIC BNDS & STRS	
183.4	0.7		QTE	AS TO 136.4	50
187.5	4.1		QTE	AS TO 50.2-WEAKLY FOTD	50
193.7	6.2	MVVW	QTE	AS TO 78.2-LOCALLY SERICITIC RICH ZONES-SPKS PY 1%-20-32 CPS	50
194.6	0.9	MVVW	QTE	AS TO 78.2-SPKS PY 1%-38-48 CPS AT 193.8, 60-80 CPS AT 194.1, 34-52 CPS AT 194.5	50
197.3	2.7	MVVW	QTE	AS TO 78.2-SPKS PY 1%-11-17 CPS	50
198.7	1.4	MVVW	QTE	AS TO 136.4-SPKS PY 1%-20-30 CPS AT	50

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				197.8, 28-38 CPS AT 19,.1	
199.5	0.8	MVVW	QTE	FG-MG-GREY-GRANULAR-50% IRREGULAR BN DS METAGWKE (AMPHIBOLE BIOTITE GARNE TS) DECREASING IN CONTENT DOWNHOLE-W EAKLY FOTD-48-60 CPS AT 198.4, 32-38 CPS AT 198.8, 100-120 CPS AT 199.1, 58-66 CPS AT 199.4	50
201.2	1.7	MVVW	QTE	AS TO 78.2-LOWER CT SHARP-SPKS PY 1 %-22-27 CPS	1
202.7	1.5		QTE	FG-YELLOW GREY-SERICITIC-MAFIC BEDS (BNDS) CHLORITE MICA-X-BEDDED 10 DEG REES, 20 AT 201.3, 50 AT 202.0-QTE UNITS BELOW THIS UNIT ARE MAINLY PUR E & HIGHLY SERICITIC-DEPOSITIONAL EN VIRONMENT CHANGE	
216.8	14.1		QTE	PURE-WHITE-YELLOW TINGE-SERICITIC-MI NOR MAFICS-WELL BEDDED & LAMINATED	50
223.4	6.6		QTE	AS TO 216.8-HEMATITE UP TO 5-6%	50
240.1	16.7		QTE	AS TO 216.8	50
245.3	5.2		QTE	AS TO 202.7	50
250.9	5.6		QTE	AS TO 216.8	50
256.2	5.3		QTE	AS TO 202.2	60
261.0	4.8		QTE	AS TO 216.8-LOCAL HEMATITIC QTZ GRAI NS	60
261.2	0.2		QTE	AS TO 202.7	65
261.4	0.2		GWKE	META-MG-CG-PALE GREEN-CHLORITE RICH- MICA-FELDSPAR-CLOTS SPKS PY PO 2-3%- GRADES INTO FOLLOWING UNIT	65
261.8	0.4		QTE	AS TO 202.7	
282.0	20.2		QTE	AS TO 216.8-LOCAL STREAKS GREEN FUCH SITE	65
282.3	0.3		QTE	AS TO 261.0	65
286.1	3.8		QTE	AS TO 216.8	65
287.6	1.5		QTE	AS TO 202.7	65
289.9	2.3		QTE	AS TO 216.8	65
291.6	1.7		GWKE	META-AS TO 261.4-INTERBNDS QTE 25% AS TO 202.7	70
292.3	0.7		QTE	AS TO 202.7	70
293.0	0.7		GWKE	META-AS TO 291.6	70
294.2	1.2		QTE	AS TO 202.7-LOWER CT SHARP AT 70	70
298.4	4.2		DIA	META-AS TO 46.6-FG CTS	
302.1	3.7		QTE	AS TO 216.8	70
304.2	2.1		DIA	META-AS TO 46.6-SHARP FG CTS AT 70	
305.8	1.6		QTE	AS TO 216.8	70
306.6	0.8		QTE	AS TO 202.7	70
313.5	6.9		QTE	AS TO 216.8	70
314.3	0.8		QTE	AS TO 202.7-SPKS PY PO 1%	70
316.0	1.7		QTE	AS TO 216.8-LOWER CT SHARP AT 70	70
316.6	0.6		QTE	AS TO 202.7-MAFICS 10-15%-CHLORITE MICA-DECREASING DOWNHOLE-LOWER CT SH ARP AT 70	70
325.9	9.3		QTE	AS TO 216.8-LOWER CT SHARP 75	70
339.1	13.2		DIA	META-AS TO 46.6-FG CTS-VCG AT CENTRE OF UNIT-LARGE BLACK CLOTS MICA AMPHI BOLE-LOWER CT SHARP AT 75	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
349.2	10.1		QTE	AS TO 216.8-MINOR HEMATITIC STAINED ZONES	70
349.7	0.5		QTE	AS TO 223.4	70
381.2	31.5		QTE	AS TO 216.8-LOWER CT SHARP AT 70 377.8-378.1-WHITE MASSIVE QTZ VEIN	70
383.7	2.5		QTE	AS TO 202.7	70
384.0	0.3		GWKE	META-AS TO 261.4-CTS SHARP	70
384.9	0.9		QTE	DIRTY-(CLEAN METAGWKE)-FG-MG-MEDIUM GREY-CHLORITE MICA (15-20%) MAINLY ALONG BEDDING PLANES-MINOR MICA-SEVERAL GARNETS-SHARP CTS 70	
394.6	9.7		QTE	AS TO 202.7	70
398.2	3.6		QTE	AS TO 384.9	70
402.0	3.8		QTE	AS TO 216.8-SLIGHTLY MAFIC CONTACTS -PURE SERICITIC TO CENTRE OF UNIT	
403.6	1.6		GWKE	META-AS TO 261.4-LOWER CT SHARP BUT INDISTINCT	80
410.9	7.3		DIA	META-AS TO 46.6-FG-LOWER CT SHARP	
412.0	1.1		QTE	AS TO 202.7	
413.5	1.5		QTE	AS TO 384.9-NUMEROUS TREMOLITE NEEDLES-LOWER CT SHARP & IRREGULAR-SPKS PY 1%	
414.0	0.5		QTE	AS TO 202.7	
457.8	43.8		QTE	AS TO 216.8-NON-YELLOWISH-WEAKLY FOT D TO MASSIVE-STREAKS FUCHSITE-455.1 TO 456.5 NUMEROUS SMALL FRACTURES	70
461.6	3.8		QTE	AS TO 202.7-LOWER CT SHARP 70	
462.2	0.6		GWKE	SIMILAR AS TO 384.9-MORE MAFIC WITH NUMEROUS TREMOLITE NEEDLES-LOWER CT SHARP BUT INDISTINCT	
465.5	3.3		DIA	META-AS TO 46.6-FG	
467.3	1.8		VOLC	AS TO 49.4-SHARP CTS	
471.8	4.5		DIA	META-AS TO 46.6-FG	
473.8	2.0		VOLC	AS TO 49.9-SHARP CTS	
481.3	7.5		DIA	META-AS TO 46.6-LOWER CT SHARP	
482.5	1.2		QTE	MICACEOUS-FG-GREY BROWN-LOCAL BIOTITE RICH STRS-LOWER CT SHARP	
483.9	1.4		QTZ	VEIN -WHITE MASSIVE WITH 50% AMPHIBOLITE IRREGULAR INCLUSIONS (DK GREEN MG-AMPHIBOLE RICH)-LOWER CT SHARP	
485.2	1.3		SKN	DK GREEN-CG-DIOPSIDE RICH-MINOR CALLITE	
486.4	1.2		UM	MG-GREY-SLIGHTLY TALCOSE-CARBONATE 5 -10%-MT CUBES 3-4%	
487.0	0.6		SKN	AS TO 485.2	
487.2	0.2		UM	AS TO 486.4-MT 3-4%	
489.5	2.3		SKN	AS TO 485.2	
493.2	3.7		UM	AS TO 486.4-SEVERAL UNDULATING FLOW CTS-LOWE CT SHARP AT 65-MT 3-4%	
508.2	15.0		UM	SRPD PERIDOTITE-TYPE A-CG-BLACK TO LIME GREEN-LOCAL ZONES LESS SRPD & LOCAL BNDS HIGHLY SRPD-NUMEROUS SMALL SERPENTINE FILLED FRACTURES-MT 2%	
523.2	15.0		UM	AS TO 508.2-MT 1-2%	
538.2	15.0		UM	AS TO 508.2-MT 1-2%	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
553.2	15.0		UM	AS TO 508.2-FG & LESS SRPC DOWNHOLE-MT 1-2%	
559.8	6.6		UM	AS TO 553.2-MT 1-2%	
560.6	0.8		UM	VFG-DK GREEN-AMPHIBOLE CHLORITE-ALTERED CT ZONE-MT 3-4% (CUBES)	
564.5	3.9		DIA	META-AS TO 46.6	
565.2	0.7		UM	AS TO 560.6-MT CUBES 4-5%	
565.6	0.4		UM	FG-GREY-TALCOSE-TREMOLITE SUAS-MT 1%	
566.4	0.8		UM	VFG-GREY-TALCOSE-MASSIVE-MT 1-2%	
567.0	0.6		UM	TYPE C-LARGE EQUANT BLACK CLIVINES	
567.6	0.6		UM	TYPE A-10-15% TALCOSE MATRIX	
569.1	1.5		UM	TYPE C-MT 1-2%	
569.5	0.4		UM	TYPE A-MT 1-2%	
570.9	1.4		UM	TYPE C-MT 1-2%	
571.1	0.2		UM	AS TO 566.4-MT 1-2%	
572.4	1.3		UM	AS TO 560.6-MT 1-2%	
575.4	3.0		DIA	META-AS TO 46.6	
584.5	9.1		QTE	FG-MG-GREY-MASSIVE-GTANULAR-5-10% MICA-LOWER CT BIOTITC	
584.9	0.4		UM	AS TO 560.6	
585.1	0.2		UM	AS TO 565.6	
588.6	3.5		UM	AS TO 508.2-MT 2-3%	
603.6	15.0		UM	CG-MEDIUM GREY-EQUIGRANULAR-SLIGHTLY ALTERED PERIDOTITE-MT 1%	
618.6	15.0		UM	AS TO 603.6-MT 1%	
626.2	7.6		UM	AS TO 603.6-MT 1%	
628.7	2.5		LC	GRAUND CORE	
640.0	11.3		UM	AS TO 603.6-MT 1%-INDISTINCT FLOW CT AT 633.0	
644.8	4.8		LC	GROUND CORE	
659.8	15.0		UM	AS TO 603.6-MT 1%	
674.8	15.0		UM	AS TO 603.6-MT 1%	
679.0	4.2		UM	AS TO 603.6-MT 1%-676.5-679.0-SMALL VUGS WITH FIBROUS ASBESTOS	
680.9	1.9		UM	TYPE A-75% BLACK EQUANT CLIVINES-MT 1%-LOWER CT SHARP (FLOW)	
682.0	1.1		UM	TYPE C-BLACK EQUANT OLIVINES (50%) UP TO 0.6 INCHES-MT 1%	
697.0	15.0		UM	AS TO 603.6-MT 1%-682.7-685.4-0.2 INCH VUGS (25%) FILLED WITH FIBROUS ASBESTOS	
713.2	16.2		UM	AS TO 603.6-MT 1%-NUMEROUS MT RICH STRS	
715.8	2.6		UM	TYPE C-MT 1%	
716.5	0.7		UM	TYPE A-MT 1%	
717.3	0.8		UM	TYPE C-MT 1-2%	
717.7	0.4		UM	TUPE A-MT 1-2%	
718.6	0.9		UM	TYPE C-MT 1%	
719.0	0.4		UM	TYPE A-MT 1%	
722.1	3.1		UM	TYPE C-HUSKY BLACK OLIVINES (35-40%) MT 1-2%	
724.5	2.4		UM	TYPE C-LARGE PRISMATIC OLIVINES-MT 1%	
728.8	4.3		UM	AS TO 560.4	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
733.0	4.2		UM	TYPE C-PRISMATIC-MT 1%	
734.2	1.2		UM	TYPE A-MT 1%	
735.1	0.9		UM	TYPE C-LARGE HUSKY TABLETS-MT 1%	
735.5	0.4		UM	TYPE A-MT 1%	
735.7	0.2		UM	TYPE C-MT 1%	
736.1	0.4		UM	TYPE A-MT 1%	
736.8	0.7		UM	TYPE C-MT 1%	
737.1	0.3		UM	TYPE A-MT 1%	
737.5	0.4		UM	TYPE C-MT 1%	
738.0	0.5		UM	TYPE A-MT 1%	
740.8	2.8		UM	TYPE C-MT 1%	
741.6	0.8		UM	TYPE A-25% MATRIX-MT 1%	
743.7	2.1		UM	TYPE C-MT 1%	
744.8	1.1		UM	TYPE A-MT 1%	
747.4	2.6		UM	VARIETY TYPE C & A-EQUANT OLIVINES UP TO 75%-MT 1%	
748.1	0.7		UM	TYPE A-MT 1%	
752.1	4.0		UM	TYPE C-LARGE HUSKY TABLETS-MT 1%	
759.6	7.5		UM	AS TO 747.4-MT 1%	
762.0	2.4		UM	AS TO 560.6-MT CUBES 7-8%	
762.5	0.5		UM	AS TO 566.4-MT 2-3%	
763.0	0.5		UM	AS TO 747.4-MT 1%- FOOT OF HOLE SPECTROMETER READINGS WITH SCINTREX GIS-3 NUMBER 905 107	

BOREHOLE RECORD
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DATE PROCESSED APR 01,1974

CHK'D.....

BOREHOLE#	PROPERTY	NTS#	SH#	ANOM#	DEPTH	AZIMUTH	DIP	LATITUDE	DEPARTURE	ELEVATION	LEVEL
55330-0	SAKAMI LAKE	33F 9E		40	179	165 00	-50 00	S 620	W 1200		DATE.....

INCLINATION AND TROPARI TESTS

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP

TOPS OF WEDGES

LOGGED BY..YURIY B STARTED..JULY 18,1973 COMPLETED..JULY 20,1973

COMMENTS

DRLD T.WAKEGIJIG EXT CORE ON ANOM.'S 40,51,& 54 PERMIT NO. 551 TWP 3219 ALL CAS RECOVERED

SAMPLE ENTRIES

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
0.0	0.0			COLLAR	
89.0	89.0			EW CAS OB CLAY & GRVL SOC	
108.2	19.2		VOLC	META INT FSP-BIOT SOME QTZ MINOR AMPB APNC-VERY FG LT-DK GY HGMS MASS LOCL SCHD PLLT-LIKE CRBD-CARB STRS LOCL SHRD AT 98.2 & 103.7 2 IN QTZ VEIN AT 97.3 FEW SPKS PY-PO TS-C-73-3871 @ 97' META GWKE OV META AND	75
113.3	5.1	MVVw	VOLC	AS TO 108.2 MORE SCHD MORE BNDD-LIKE FINE CARB STRS 2 IN QTZ VEIN AT 110.7 FEW FINE SPKS PO MINOR PY	70
115.4	2.1	MW	QTZ	CARB CHERTY QTZ LOCL SOME AGLC BNDS APNC-FG LT-DK GY CRBD MORE TO LOWER CT QTZ VEIN AT UPPER MIN 15% MOST PO	
116.5	1.1	MVW	SKN	10% PY 5% AS STRS & BLBS FG-MG FBRS AMPB OR PRXN LARGE PCNT CARB LOCL BIOTITIC PO 2-4% AS FINE SPKS	
119.0	2.5	M	QTZ	CARB AS TO 115.4 CARB CNTN LESS THAN PREV SHARP CT PO 30 -35% PY 5% LESS PY TO LOWER CT MTC	75
121.5	2.5	MW	ARG	GRPC LOCL STGL CDCV FINE CARE VING BNDD 45-70 APNC-VERY FG BK CNRC TO LOWER CT MIN PY-PO PO 10-12% PY 2-3% MOST AS STRS PY LOCL CUBES	70
122.6	1.1	MVW	SKN	AS TO 116.5 PY-PO LOCL 2-3% MOST PO FINE SPKS	
134.8	12.2		DIA	F-MG RATHER DIO-LIKE FSP-AMPH-PRXN SOME QTZ MASS TO FOTD NATURE FEW PO SPKS AT CTS	
135.3	0.5	MVW	QTE	DIRTY POSS QTZ-RICH ARK APNC-VERY FG BNDD NATURE GY PY 5-6% PO MINOR	70
136.2	0.9	MVW	ARG	AS TO 121.5 MODY GRPC CRBC FEW QTZ BLBS-PRESS SHADOWS( ) PY- PO 8-10%	70

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
140.9	4.7	MW	QTZ	CARB AS TO 115.4 QTZ VING MODY MTC LOCL SKN-LIKE FBRS AMPH OR PRXN PY-PO	
				LOCL TO 15% ARSENO-PYRITE AT LOWER CT 5-8%	
143.3	2.4	MVW	QTZ	VEIN MASS M-CG SOME CARB SHARP CT ARSENOPYRITE 2-3% LOCL	60
145.9	2.6	MVW	SCH	CHL-CARB LOCL QTZ BLBS LOCL SOME AMPB F-MG BNDD NATURE FINE CARB STRS MIN PY-PO LOCL 4-5% SPKS & BLBS	60
147.4	1.5	MVW	QTZ	CARB AS TO 115.4 PO 5-6% LOCL UP TO 15% WKLY MTC	
150.7	3.3	MW	SCH	AS TO 145.9 LOCL LARGE AMPB BNDD LOCL SKN-NATURE WKLY MTC	70
				PO 5-8% LOCL UP TO 12%	
152.7	2.0	MVVW	SCH	AS TO 145.9 AMPH SCHD TO MASS MG FEW PO SPKS	70
153.3	0.6	MW	QTZ	CARB AS TO 115.4 PY 15% STRS & CUBES	
157.2	3.9	MVW	SCH	AS TO 145.9 ONLY LOCL AMPB MORE SLCS FSP ALSO BIOT MIN PY 5-8	
				% AT UPPER CT TO 3-4% AT LOWER PO VERY MINOR	
162.2	5.0	MVVW	VOLC	AS TO 108.2 QUITE SCHD BICTITIC CRBD APNC-FG GENERALLY MORE MASS NATURE DOWN FEW PY SPKS	70
179.0	16.8		VOLC	AS TO 108.2 MORE MASS NATURE 2 IN QTZ VEIN AT 163.4 FEW SPKS	
				PY	
				TS-C-73-3872 @ 175' META ARGILLACE-OUS ARKOSE	
				FOOT OF HOLE	
				CONDUCTIVITY GRPT-PY-PO FAIRLY WIDE ZONE MAGNETICS PO	

BOREHOLE RECORD
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DATE PROCESSED APR 01,1974

CHK'D.....

BOREHOLE#	PROPERTY	NTS#	SH#	ANOM#	DEPTH	AZIMUTH	DIP	LATITUDE	DEPARTURE	ELEVATION	LEVEL
55331-0	SAKAMI PROJECT	33F 9W		35	158	180 00	-45 00	N 80	W 25		

DATE.....

INCLINATION AND TROPARI TESTS

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP

TOPS OF WEDGES

LOGGED BY..YURIY B STARTED..JULY 21,1973 COMPLETED..JULY 25,1973

COMMENTS

DRLD CANICO WINKIE-JP FOURNIER IEX CN ANOM 35-36 PERMIT NO 550 TWP 3218 40 FT AW 50 FT EW CAS & SHOES LOST

SAMPLE ENTRIES

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
0.0	0.0			COLLAR	
72.0	72.0			OB CLAY & BLDS AW CAS TO 40.0 FT EW CAS TO 72.0 FT SOC	
72.5	0.5	MVVW	PLLT	BIOT-CHL-FSP APNC-VERY FG SCSS CRBD QTZ-CARB TO LOWER CT VUGY FRCD AT LOWER VAGUE BNDD GY PY STRS CUBES & BLBS LOCL 2-3%	60
73.6	1.1	MW	ARG	LOCL GRPC APNC-VERY FG GY-BK CNRD LOCL MORE QTE-CHERT TO LOWER BNDD CRBD AS STRS PY-PO MIN PO TO 25% PY TO 5% UPPER CT SHARP	70 60
76.0	2.4	MVVW	VOLC	ALTD CHL-CARB SCH META INT-ANDS POSS TECS NATURE SHARP CT WITH UPPER APNC-VERY FG LOCL PRPC CRBD-STRS VAGUE BNDG LOCL VUGY DK GY-GRN GY LOCL PY-PO MIN TO 1-2% SPKS & SML BLBS	70
77.8	1.8	MVW		DIKE GR LCRT QTZ-FSP MASS FRCD M-CG PY-PO AS FRCT STRS LOCL 3-5%	
79.1	1.3	MVW		VOLC AS TO 76.0 RATHER SLCS CHLC STGL CRBD PO 2-3% PY MINOR WKLY MTC	
91.9	12.8	MVVW	VOLC	AS TO 76.0 POSS ANDS-TUFF SCSS LOCL BLBY CARB STRS LOCL VUGY VAGUE BNDG FEW QTZ VINS PO LOCL 1-2%	60
93.5	1.6	MVVW	UM	ALTD PRDT DK GY-GRN GY TYPE C AS PER BH 55303 MATRIX 765% OLVN TO 1/2 INCH LOCL TO 3/4 CRBD CT VAGUE FLOW NATURE UPPER WELL CRBD SPKS FEW PY-PO	60
100.0	6.5	MVVW	VOLC	AS TO 91.9 MORE MASS NATURE CRBD	
110.5	10.5	MVVW	UMUB	GY-DK GY-GRN FG POSS AMPH-AMPB NEEDLE-LIKE NO DEFINITE CT UPPER CR LOWER LOCL BLBY CHLC POSS A TECS-AMPH UNIT NON-MTC FEW SPKS PY MINOR PO LC 107.4-109.1	
112.5	2.0	MVW	TUFF	( )GY LOCL QUITE SLCS ALSC LCCL CHL VAGUE-GOOD BNDD NATURE SHRC LCCL BLBY POSS VOLC FRAGMENTS PY 1-2%	60

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				LOCL SPH VEINLETS TO 2% LIMONITIC ZN	
				.75-1.0% CRBD-STRS FGMD CORE	
117.4	4.9		LC		
124.6	7.2	MVVW	TUFF	AS TO 112.5 RATHER MASS NATURE STGL	
				CRBD FEW SPKS PY SHRD	
128.5	3.9	MVW	MTSD	TFCS ARG GRPC DK GY-BK CNRD BNDD	65
				BXTD SLSS FRAGMENTS SHRD-CRBD FGMD	
				CORE SPH 3-4% AT UPPER 1-2% LOCL	
				ELSEWHERE FEW SPKS GAL ZN POSS 1.0-	
				1.5% LC 126.9-127.8	
129.5	1.0		LC		
136.9	7.4	MW	MTSD	AS TO 128.5 AGLC BXTD-SLCS FRAGMENTS	
				STGL GRPC PY-PO 10% LOCL TO 15%	
				FGMD CORE	
141.7	4.8	MVVW	TUFF	AS TO 112.4 MORE MASS FEW SCSS ZONES	
				SOME ARK UNITS VAGUE BNDG	
158.0	16.3		SCH	PARA QTZ-FSP-CHL BNDD NATURE ALSO	
				POSS TFCS GY-LT GRN FEW QTZ-FSP	
				VEINLETS FEW SPKS PY STGL CRBD	
				FOOT OF HOLE	
				CONDUCTIVITY & MAGNETICS-GRPT PY-PO	
				124.6-136.9 SHRD ZONE-MINOR SPH MIN	

BOREHOLE RECORD
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DATE PROCESSED APR 01,1974

CHK'D.....

BOREHOLE#	PROPERTY	NTS#	SH#	ANOM#	DEPTH	AZIMUTH	DIP	LATITUDE	DEPARTURE	ELEVATION	LEVEL
55332-0	SAKAMI PROJECT	33F 9W		27	62	180 00	-45 00	N 540	E 800		DATE.....

INCLINATION AND TROPARI TESTS

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP

TOPS OF WEDGES

LOGGED BY..YURIY B STARTED..JULY 25,1973 COMPLETED..JULY 26,1973

COMMENTS
DRLD CANICO WINKIE-1 WAKEGIJIG EXT CORE PERMIT NO 551 TWP 3218 ALL CAS RECOVERED

SAMPLE ENTRIES

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
0.0	0.0			COLLAR	
5.0	5.0			EW CAS OB CLAY SOC	
13.9	8.9		SCH	PARA META AGLC ARK BIOT-FSP-QTZ FG GY-DK GY QTZ-CARB STRS BNDD NATURE LOCL RATHER BLBY-CARB FEW FINE PO STRS AT 10.0 FT	65
18.8	4.9	MVVW	SCH	AS TO 13.9 LOCL QUITE SCSS FEW PY SPKS	
20.8	2.0	MVW	SCH	PARA CHL-FSP LOCL QUITE SCSS LOCL MORE CRBD AREAS FG GRN GY-DK GRN CARB STRS MORE MASS NATURE AT UPPER SCSS AT LOWER PY-PO LOCL UP TO 12% AS STRS SOME SPKS WKLY MTC POSS VERY WKLY GRPC LOCL	70
24.0	3.2	MVVW	SCH	AS TO 13.9 MORE BNDD NATURE MINOR QTZ-CARB BNDS CNRD APPEAR S QUITE AGLC FEW SPKS PO	70
28.1	4.1	MVVW	SCH	AS TO 13.9 NOT AS SLCS F-MG	
33.8	5.7	MVW	SCH	AS TO 20.8 GWKE-NATURE FEW SML ARK UNITS POSS CLEAN GWKE AT LOWER CT PO FINE STRS & SPKS VERY WKLY MTC PO 10%	
35.4	1.6	MW	SCH	AS TO 20.8 BLBY SLCS ZONES QTZ-FSP AGLC BNDD LOCL STGL CRBD PO 15-20%	70
36.4	1.0	MVVW	GWKE	META SUB POSS CLEAN GWKE MICS-BIOT FG GY-DK GY FEW SPKS PO TS-C-73-3673 @ 36' META GWKE	70
38.1	1.7	MVW	QTE	META AGLC BNDD SCSS BIOT VERY FG-FG GY-DK GY APPEARS LOCL RATHER GRLR PO LOCL AS STRS 3-5% PY MINOR AS SML BLBS POSS FEW SPKS CP 2 QTZ-FSP VEIN AT LOWER CT TS-C-73-3674 @ 37.2' ARGILLACEOUS QTE	60
39.0	0.9	MVW	SCH	AS TO 20.8 SLCS-MFC BNDS MFCS CHL-AMPB GWKE-LIKE AT UPPER CT PO 5-7% AS FINE STRS & BLBS	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
44.0	5.0	MVVW	ARK	META AGLC QTZ-FSP SCH( ) NOT AS SCSS AS TO 13.9 RATHER MASS NATURE LOCL FINE AMPB-META GWKE FG GY LOCL BLBY VAGUELY LOCL VAGUE BNOD FEW FINE PY-PO SPKS	60
62.0	18.0		ARK	AS TO 44.0 30% LC 47.4-49.5 52.4-55.5 60.5-61.5 LOCL QUITE SCSS	
				FOOT OF HOLE	
				CONDUCTIVITY & MAGNETICS PC MINOR PY LOCL POSS VERY WKLY GRPC	

BOREHOLE RECORD
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DATE PROCESSED APR 01,1974

CHK'D.....

BOREHOLE#	PROPERTY	NTS#	SH#	ANOM#	DEPTH	AZIMUTH	DIP	LATITUDE	DEPARTURE	ELEVATION	LEVEL
55333-0	SAKAMI PROJECT	33F 7E		8	191	90 00	-45 00	N 400	W 380		

DATE.....

INCLINATION AND TROPARI TESTS

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP

TOPS OF WEDGES

LOGGED BY..YURIY B STARTED..JULY 26,1973 COMPLETED..JULY 31,1973

COMMENTS

DRLL CANICO WINKIE-JP FOURNIER IEX CORE PERMIT NO 550 TWP 3117 ALL CAS RECOVERED

SAMPLE ENTRIES

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
0.0	0.0			COLLAR	
17.0	17.0			EW CAS OB CLAY & BLBS SOC	
24.1	7.1		VOLC	AMPC F-MG AMPB TO 1/4 INCH QUITE SLCS INT COMPOSITION QTZ-FSP-AMPB LT GRN CRBD SLCS & BLBY TO LOWER FEW PY SPKS VAGUE LNMT	80
29.5	5.4		VOLC	META INT MASS-VERY FG QTZ-FSP-CHL LOCL SOME AMPB CRBD FEW SPKS PY	
46.0	16.5		VOLC	AS TO 24.1 F-MG MORE MASS NATURE TO LOWER CT LOCL MICS BIOT-CHL QTZ-CARB STRS	
47.7	1.7	MVW	ARG	DK GY-BK BNDD APNC-FG SILTY QUITE SLCS TO LOWER BNDD 80-85 CRBD-STRS FEW PY STRS	70
51.5	3.8	MVW	ARK	META QUITE AGLC LOCL MORE MFC-GRFR ZONES-GWKE BNDD GY-GRN FG STGL CRBD PY-PO 2-3%	70
54.5	3.0	MVW	ARK	AS TO 51.5 FEW MT BNDS LOCL STGL MTC PO 203% PY 1-2%	60
61.7	7.2	MVVW	GWKE	META AMPH-FSP-CHL-GAR LOCL IRTD ARK & FEW AGLC UNITS MORE ARK NATURE TO LOWER CT F-MG DK-GRN PY-PO SPKS PO 1-2% TS-C-73-3882 @ 56' META ARGILLACEOUS SEDIMENT	
67.4	5.7	MVW	SCH	GRPT STGL CDCV CRBD FGMD CORE BK PO 10% AS STRS & BLBS MTC	
69.5	2.1	MVW	SCH	AS TO 67.4 LESS CRBD STRS & BLBS PO FINE STRS 8-9%	
75.1	5.6	MW	SCH	AS TO 67.4 PO 20-25% BLBY-CARB MTC	
77.8	2.7	MVW	IF	QTZ-CARB BNDD VAGUELY LOCL GRPT SCH UNITS-CDCV PO 10%	80
83.9	6.1	MVW	SCH	AS TO 67.4 LC 79.3-82.3 PC TO 10% FINE STRS & BLBS	
87.4	3.5	MVW	IF	AS TO 77.8 PY-PO 5-6% LOCL TO 10% LOCL GRPT SCH UNITS	
95.2	7.8	MVW	SCH	AS TO 67.4 MORE MASS GRN GY-BK POSS TFCS LOCL STGL GRPC PY-PO TC	75

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				TO 12% MOST PO PY 2-4%	
97.4	2.2	MVVW	MTSD	APNC-VERY FG DK GY-BK SCSS NATURE LOCL POSS TFCS BNDD MORE SLCS TO LOWER CT CRBD FEW FINE PY-PC SPKS & STRS ARG( )	
102.0	4.6		ARK	AS TO 51.5 AGLC TO LOWER CRBD	
105.5	3.5		MTSD	AS TO 97.4 MORE SLCS PY 1-2% MINOR	
115.8	10.3		GWKE	META RATHER CLEAN QTZ-FSP-AMPB F-MG LOCL QUITE CRBD BNDD NATURE LOCL CHLC LOCL SCSS FEW PY-PO SPKS & STES 1%	80
118.6	2.8		GWKE	AS TO 115.8 MORE MASS THAN PREV RATHER CLEAN-SUB-ARKOSE( )	
123.5	4.9	MVVW	GWKE	AS TO 115.8 AGLC TO LOWER GRFR GRPC TO LOWER LOCL ARKOSIC PY -PO LOCL 2%	
129.6	6.1	MVW	MTSD	AS TO 97.4 TFCS GRPC PY-PC 3-4% LOCL ARKOSIC UNITS BNDD	75
137.6	8.0	MVVW	ARK	AS TO 51.5 MFC BNDS-GWKE	
138.7	1.1	MVW	MTSD	AS TO 97.4 QUITE SLCS SLLY GRPC PY 5-8%	70
145.5	6.8	MVVW	ARK	AS TO 51.5 GRPC MTSD LOCL ALSO FEW GWKE BNDS	
149.2	3.7	MVW	GWKE	AS TO 115.8 PY-PO 3-4% QTZ-CARB BLBS	
151.8	2.6	MVW	MTSD	AS TO 97.4 GRPC SLUMPING-XBDD AGLC CNRD PO 3-5%	
154.0	2.2	MW	MTSD	AS TO 97.4 GRPT SCH PO 12-15% BNDD	80
157.0	3.0		LC		
161.7	4.7	MVW	SCH	GRPT BK MASS PO 2-3% LOCL 5-6% SLLY MTC	
166.5	4.8	MVW	MTSD	AS TO 97.4 DK GY-BK PY-PO 4-5%	70
168.5	2.0	MVVW	ARK	AS TO 51.4 MASS NATURE	
172.4	3.9	MVVW	GWKE	AS TO 115.8 FEW PY-PO SPKS LOCL GARS	
191.0	18.6		ARK	AS TO 51.4 FG BIOTITIC TC FOOT OF HOLE POSS CLEAN GWKE	

FOOT OF HOLE

CONDUCTIVITY & MAGNETICS-EXTENSIVE

GRPT ZONES MIN PY-PO 61.7-95.2
129.6-161.7

BOREHOLE RECORD
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DATE PROCESSED APR 01,1974

CHK'D.....

BOREHOLE#	PROPERTY	NTS#	SH#	ANOM#	DEPTH	AZIMUTH	DIP	LATITUDE	DEPARTURE	ELEVATION	LEVEL
55334-0	SAKAMI PROJECT	33F 2W			755	180 00	-45 00	S 415	W 2800		

DATE.....

INCLINATION AND TROPARI TESTS

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP
100		-43 30	200		-41 30	300		-36 30	400		-34 45	500		-33 00
600		-27 30	700		-24 00									

TOPS OF WEDGES

COMMENTS

LOGGED BY..DEBICKI E J STARTED..JULY 29,1973 COMPLETED..AUG 0c,1973 DRILLED INSPIRATION BBS 1-AQ CORE-PERMIT 548-ZONE 3
10 FEET AW CASING & AW CASING SHOE LEFT IN HOLE

SAMPLE ENTRIES

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
0.0	0.0			COLLAR	
9.0	9.0			OVERBURDEN-MUSKEG-SMALL BOULDERS-10 FEET AW CASING-START OF CORE	
10.5	1.5		MTSD	METAGWKE -MG-CG-GREY BROWN TO PALE GREEN-FIBROUS TREMOLITE ANTHOPHYLLITE-LOCAL ZONES ACTINOLITE RICH, MICA SCHIST (FELDSPAR 30-40% & DK GREEN AMPHIBOLE RICH ZONES-BANDED (COMPOSITION VARIATIONS)-WELL FOTD-SPKS PY PO 1%	50
19.5	9.0		GWKE	META-METADIABASE -MG-CG-GREY GREEN-BIOTITIC-AMPHIBOLE & FELDSPAR-WELL FOTD	40
28.2	8.7		MTSD	AS TO 10.5-SPKS PY 1%	50
29.3	1.1		AMPH	METAGWKE -MG-CG-DK GREEN-75% FIBROUS AMPHIBOLE-MICA FELDSPAR-WEAKLY FOTD	50
33.7	4.4		MTSD	AS TO 10.5-GRADES INTO NEXT UNIT	50
35.2	1.5		GWKE	META-AS TO 19.5-GRADES INTO NEXT UNIT	50
36.2	1.0		MTSD	AS TO 10.5-GRADES INTO NEXT UNIT	50
37.4	1.2		GWKE	META-AS TO 19.5-GRADES GRADUALLY INTO NEXT UNIT	50
73.5	36.1		MTSD	AS TO 10.5-ACTINOLITE RICH-LOWER CT SHARP AT 50-SPKS PY 1%-TRACE PO 50.6-PO PY 2-3% ALONG FOTN PLANE	50
100.2	26.7		GWKE	META-FG-MG-DK BROWN GREEN-AMPHIBOLE MICA RICH-NUMEROUS QTZ FELDSPAR CLOTS & EYES ELONGATED PARALLEL TO WELL DEVELOPED MICACEOUS FOTN PLANES-SPKS PY 1%	45
100.9	0.7		AMPH	MG-CG-DK GREEN-90% AMPHIBOLE (FIBRES IN MG MATRIX)-WELL FOTD)-LOCAL ZONES SPKS PO PY 1%	40
103.1	2.2		SKN	FG-MG-GREY GREEN-DIOPSIDE CALCITE RICH-MINOR QTZ-INTERBANDS OF DK GREEN FG AMPHIBOLITE SIMILAR AS TO 100.9	50 45
103.4	0.3		AMP	AS TO 100.9 SHARP CTS	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
104.0	0.6		QTE	FG-MG-TRANSLUCENT QTZ GRAINS-10-15% INTERSTITIAL GREEN AMPHIBOLE CHLORITE -SHARP CTS	
105.2	1.2		MTSD	AS TO 10.5	
105.7	0.5		AMPH	AS TO 100.9-SHARP CTS	45
109.4	3.7		SKN	AS TO 103.1	
113.1	3.7		UM	MG-GREY-TREMOLITE NEEDLES-TALCOSE-MT 1-2%-CARBONATE 5-6%-LOCAL BNDS SKN	
114.2	1.1		AMPH	AS TO 100.9	55
115.2	1.0		AMPH	MG-CG-GREY GREEN-ACTINOLITE (NEEDLES) RICH-POSSIBLE ALTERED UM	
117.0	1.8		AMPH	AS TO 100.9-SPKS PO PY 1%	50
117.8	0.8		AMPH	AS TO 115.2	55
118.5	0.7		UM	AS TO 113.1-MT 1-2%-LOWER CT SHARP AT 60	
120.5	2.0		AMPH	AS TO 100.9-LOWER CT UNDULATING-120. 1-1 INCH CALCITE VEIN (LARGE CUBES PY,CLOTS PO CP 2-3%)	55
127.9	7.4		UM	AS TO 113.1-MT 1%-WEAKLY FOTD-124.8-FLOW CT WITH CLOTS PO 1-2%	55
128.4	0.5	MVW	AMPH	AS TO 100.9-LOCAL BNDS QTE AS TO 104.0-CLOTS PO 4-5%-SPKS PY 1-2%	
130.4	2.0	MVVW	QTE	AS TO 104.0-LOCAL SKN-SPKS PO 1%	
134.8	4.4		AMPH	AS TO 100.9-LOCAL CLOTS PO 1%-WELL FOTD 50-55	
136.0	1.2		AMPH	AS TO 115.2	50
138.6	2.6		AMPH	AS TO 100.9-FOTD 50-55	
139.9	1.3		SKN	AS TO 103.1	
143.7	3.8		AMPH	AS TO 100.9	50
151.3	7.6		UM	AS TO 113.1-MT 1-2%	50
152.5	1.2		AMPH	AS TO 100.9	55
154.6	2.1		UM	AS TO 113.1-50% SKN-HIGHLY CARBONACEOUS	55
154.9	0.3		AMPH	AS TO 100.9	55
156.5	1.6		UM	AS TO 154.6-MT 1%-LOWER VFG-DK GREEN-AMPHIBOLE CHLORITE RICH	
157.1	0.6		MTSD	AS TO 10.5-CG MORE BIOTITC	55
166.1	9.0		UM	AS TO 113.1-MT 1-2%-VFG AMPHIBCLITE CHLORITE CTS-LOCAL SKN-FOTC 40 TC 45 DOWNHOLE	
166.9	0.8		MTSD	AS TO 157.1	40
168.5	1.6		AMPH	AS TO 115.2-LOCAL SKN ZONES	50
177.9	9.4		UM	FG-GREY TALCOSE-WELL BANDED (TALC BNDS)-FLOW FOTD 30 TO 40 DOWNHCLE-MT 1-2%	
186.9	9.0		UM	AS TO 177.9-MT 1-2%-LOWER CT UNDULATING (FLOW)	45
193.9	7.0		UM	AS TO 177.9-FLOW CTS AT 151.7 & 193.9-MT 1-2% LOWER CT SHARP	40
199.9	6.0		GWKE	META-(SCHIST)-MG-DK GREEN AMPHIBOLE (ACTINOLITE-TREMOLITE) RICH-POSSIBLE CORDIERITE-LOCAL AMPHIBOLITIC ZONES-WELL FOTD-SPKS PY 2-3%	45
200.1	0.2		QTZ	VEIN-WHITE-MASSIVE	
202.1	2.0		GWKE	META-AS TO 199.9-SPKS PY 2-3%-LOWER	40

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				CT SHARP AT 40	
214.0	11.9		UM	AS TO 177.9-MT 1-2%-WELL FCTD	45
214.8	0.8		UM	VFG-DK GREEN-FIBROUS BLACK AMPHIBOLE IN FG AMPHIBOLE CHLORITE MATRIX (ALTERED CT ZONE)-MT 2-3%	
225.2	10.4		UM	AS TO 177.9-50% TREMOLITE ACTINOLITE SUNS & BNDS -MT 1-2%	45
225.4	0.2		UM	AS TO 214.8-MT 1%	
228.7	3.3		GWKE	META-AS TO 199.9	45
229.1	0.4		AMPH	AS TO 100.9	
230.6	1.5		UM	AS TO 177.9-MT 1-2%	45
230.9	0.3		UM	AS TO 214.8-LOWER CT SHARP 30	
266.1	35.2		RHY	QTE -FG-LIGHT BUFF GREY (TINGE YELLOW)-PORPHYRITIC ZONES-FELDSPAR RICH-BANDED (COMPOSITION VARIATIONS)-WELL FOTD-LOWER CT SHARP AT 40-SPKS PY 1%	30
268.4	2.3		UM	AS TO 177.9-MT 1-2%	30
268.7	0.3		UM	AS TO 225.2-MT 1%	35
269.4	0.7		MTSD	FG-BROWN GREY-QTZ FELDSPAR RICH BNDS 50% TREMOLITE ACTINOLITE CALCITE BNDS (SKN)	35
270.0	0.6		UM	AS TO 225.2-MT 1-2%	35
270.9	0.9		AMPH	DK GREY GREEN-MG CG-AMPHIBOLE 25-40% -BIOTITE 60-75%-LOWER CT SHARP 35	35
272.0	1.1		UM	AS TO 225.2-MT 1-2%	35
272.3	0.3		MTSD	AS TO 269.4	35
277.1	4.8		UM	AS TO 225.2-MT 1-2%	45
277.6	0.5		MTSD	AS TO 269.4	50
278.8	1.2		UM	AS TO 225.2-MT 1-2%	50
279.4	0.6		MTSD	AS TO 269.4	45
280.3	0.9		UM	AS TO 225.2-MT 1-2%	45
283.9	3.6		MTSD	AS TO 269.4	45
287.0	3.1		UM	AS TO 225.2-MT 1-2%-LOWER CT SHARP	30
296.8	9.8		UM	AS TO 177.9-MT 1-2%-296.5-296.8-ALTERED CT ZONE	30
301.5	4.7		UM	AS TO 177.9-MT 1-2%-300.7-301.5-ALTERED CT ZONE (MT CUBES 2-3%)	60
316.5	15.0		UM	AS TO 177.9-MT 1-2%-FOTD 30 AT 306.0 45 AT 309.0, 60 AT 314.0	
323.0	6.5		UM	AS TO 177.9-MT 1-2%-FOTD 60 AT 317.0 40 AT 319.0, 30 AT 322.0	
323.2	0.2		UM	AS TO 113.1	
325.0	1.8		UM	VFG-DK GREEN-AMPHIBOLE CHLORITE ALTERED CT ZONE-MT CUBES 2-3%	
328.6	3.6		AMPH	METAGWKE -AS TO 270.9-LOWER CT SHARP	35
329.3	0.7		RDCT	PORPHYRITIC-WHITE QTZ FELDSPAR PORPHYRIES (10-15%)-FG DARKER GREY FELDSPAR MATRIX-LOWER CT SHARP 45-SPKS PY 1%	
329.5	0.2		AMPH	AS TO 270.9-LOWER CT SHARP	30
329.7	0.2		RDCT	AS TO 329.3-NON PORPHYRITIC-INTERFINGERED WITH AMPH	
333.2	3.5		AMPH	AS TO 270.9-LOWER CT SHARP AT 35	40
347.0	13.8		RHY	QTE -AS TO 266.1-LOWER CT SHARP AT 35-SPKS PY 1%	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
354.1	7.1		UM	AS TO 177.9-MT 1-2%	40
356.4	2.3		UM	AS TO 225.2-MT 1-2%	40
356.8	0.4		MTSD	AS TO 269.4	40
361.6	4.8		UM	AS TO 225.2-MT 1%	40
364.1	2.5		MTSD	AS TO 269.4	40
379.1	15.0		UM	AS TO 177.9-MT 1-2%	40
391.2	12.1		UM	AS TO 177.9-MT 1-2%	40
392.9	1.7		AMPH	METAGWKE -AS TO 270.9	40
393.2	0.3		MTSD	AS TO 269.4-SHARP CTS	40
393.7	0.5		AMPH	AS TO 270.9	40
394.3	0.6		UM	AS TO 225.2-MT 1-2%	40
395.8	1.5		MTSD	AS TO 269.4	40
397.3	1.5		UM	AS TO 225.4-MT 1%	40
397.5	0.2		MTSD	AS TO 269.4	40
400.9	3.4		UM	AS TO 177.9-MT 1-2%	40
401.4	0.5		MTSD	AS TO 269.4	40
403.7	2.3		UM	AS TO 177.9-MT 1-2%	40
406.7	3.0		MTSD	AS TO 269.4	40
408.8	2.1		UM	AS TO 177.9-FOTD 40-60 DOWNHOLE-MT 1-2%	
409.7	0.9		MTSD	AS TO 269.4-FOTD 60-40 DOWNHOLE	
416.5	6.8		UM	AS TO 177.9-FOTD 40-50 DOWNHOLE-MT 1-2%	
416.7	0.2		UM	AS TO 325.0-MT CUBES 2-3%	45
419.9	3.2		UM	AS TO 177.9-MT 1-2%	45
420.1	0.2		UM	AS TO 325.0-MT 1-2% (CUBES)	45
420.7	0.6		GWKE	META-MG-DK GREEN BROWN-AMPHIBOLE MIC A RICH-MINOR FELDSPAR-WELL FOTD-LOWER CT SHARP AT 60	60
420.9	0.2		AMPH	AS TO 270.9	60
421.2	0.3		ARK	META-FG-MG-GREY-TREMOLITE RICH	60
421.4	0.2		AMPH	AS TO 270.9	
421.7	0.3		ARK	META-AS TO 421.2	60
422.1	0.4		AMPH	AS TO 270.9	60
422.7	0.6		GWKE	META-AS TO 420.7	60
423.4	0.7		UM	AS TO 225.2-MT 1-2%	60
424.5	1.1		GWKE	META-AS TO 420.7	40
425.1	0.6		AMPH	AS TO 270.9	40
435.7	10.6		UM	AS TO 225.2-MT 1-2%	60
436.6	0.9		ARK	META-AS TO 421.2-TREMOLITE ACTINOLIE ( ) 25%-SHARP CTS	
437.1	0.5		UM	AS TO 325.0-MT 3-4%	
451.6	14.5		UM	FG-GREY-TALCOSE-MASSIVE TC VERY WEAKLY FOTD-MT 1-2%	
466.6	15.0		UM	AS TO 451.6-MT 1-2%	
468.3	1.7		UM	AS TO 451.6-MT 1-2%	
474.9	6.6		UM	AS TO 177.9-MT 1-2%	
481.2	6.3		UM	AS TO 451.6-MT 1-2%	
493.6	12.4		UM	AS TO 177.9-MT 1-2%	60
493.9	0.3		UM	AS TO 325.0 BUT BIOTITIC	
496.5	2.6		ARK	META-AS TO 421.2-SHARP CTS	
496.7	0.2		UM	AS TO 325.0 BUT BIOTITIC	
511.2	14.5		UM	AS TO 177.9-MT 1-2%	60
512.5	1.3		UM	AS TO 325.0	
513.1	0.6		ARK	META-SIMILAR AS TO 421.2-MINOR TREMO	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				LITE-SPKS PY 1%	
514.5	1.4		UM	AS TO 325.0 BUT BIOTITIC	
516.5	2.0		UM	AS TO 177.9-MT 1-2%	60
522.6	6.1		UM	AS TO 214.8-MT 1%-LOWER CT VERY SHA RP AT 60	
526.3	3.7	MVVW	QTE	FG-MG-GREY (GREEN PATCHES)-15-20% MA FICS (GREEN AMPHIBOLE-MICA-CHLORITE) AS STRS & BNDS PARTLY SELVAGE LIKE AROUND OPAQUE TO TRANSLUCENT GRANULA R QTZ MASSES PRODUCING IRREGULAR PEB BLY APPEARANCE-MINOR QTZ GRITS-SPKS PY 1%-11-17 CPS	
527.1	0.8	MVW	QTE	AS TO 526.3-SPKS PY 1-2%-36-48 CPS AT 526.4, 58-72 CPS AT 526.7, 38-50 CPS AT 527.0	
532.1	5.0	MVVW	QTE	AS TO 526.3-WEAKLY FOTD-SPKS PY 1% 11-17 CPS	60
542.2	10.1		QTE	AS TO 526.3-WEAKLY FOTD	50
545.2	3.0	MVVW	QTE	AS TO 526.3-SPKS PY 1%	50
547.2	2.0	MVVW	CONG	PEBBLY QTE -ELONGATED AT 60 DEGREES OPAQUE TO TRANSLUCENT QTZ PEBBLES (5 0 TO 60%) 0.1 TO 1.0 INCHES LONG IN FG DK GREY QTZ MICA MATRIX-SPKS PY 1%-17-22 CPS AT 546.0, 22-30 CPS AT 546.4, 34-46 CPS AT 547.0	60
548.4	1.2	MVW	CONG	AS TO 547.2-SPKS PY PO 2-3%-68-80 CP S AT 547.4, 88-98 CPS AT 548.1 (SPSK PO PY 5-6%), 44-54 CPS AT 548.3	60
548.8	0.4	MVVW	CONG	AS TO 547.2-SPKS PY 1%-20-26 CPS	60
551.0	2.2	MVVW	QTE	AS TO 526.3-SPKS PY 1%-11-17 CPS	60
556.6	5.6		RDCT	META-ARKOSE -FG-MEDIUM GREY-MASSIVE MINOR MICA-LOCAL ZONES PORPHYRITIC-S PKS PY 1%	
556.8	0.2		GWKE	META-AS TO 420.7-SHARP CTS	60
557.1	0.3		RDCT	AS TO 556.6-SPKS PY 1%	
557.9	0.8		GWKE	META-AS TO 420.7	60
559.8	1.9		RDCT	AS TO 556.6-SPKS PY 1%	
560.2	0.4		GWKE	META-AS TO 420.7	60
560.8	0.6		QTE	AS TO 526.3-SHARP CTS	
568.8	8.0		RDCT	AS TO 556.6-SPKS PY 1%	
571.5	2.7		QTZ	VEIN-WHITE MASSIVE	
572.4	0.9		QTE	AS TO 526.3	
582.4	10.0		RDCT	AS TO 556.6-LIGHTER GREY-SPKS PY 1% 579.9-FLOW CT	
583.0	0.6		QTZ	VEIN	
585.4	2.4		RDCT	AS TO 582.4-SPKS PY 1%	
585.7	0.3		QTZ	VEIN	
592.2	6.5		RDCT	AS TO 582.4-SPKS PY 1%	
596.1	3.9		QTE	FG-MG-GREY-MASSIVE TO WEAKLY FOTD GRANULAR-5-10% MICA-MINOR CHLORITE	35
601.1	5.0	MVVW	QTE	AS TO 596.1-SPKS PY 1%	
601.6	0.5	MVW	CONG	AS TO 547.2-75% PEBBLES-SPKS PY 1-2% 38-50 CPS	35
602.2	0.6	MVW	QTE	AS TO 596.1-SPKS PY 1-2%-17-24 CPS	
602.9	0.7	MVW	CONG	AS TO 547.2-75% PEBBLES-SPKS PY 3-4%	

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				45-52 CPS	
604.4	1.5	MVVW	QTE	AS TO 596.1-SPKS PY 1%	
609.0	4.6	MVVW	GWKE	META-AS TO 420.7-SPKS PY 1%	45
610.0	1.0	MVW	CONG	SIMILAR AS TO 547.2-PEBBLES ROUNDED TO SUBANGULAR (60%)-0.1 TO 0.4 INCHES-SPKS PY 1-2%-44-54 CPS AT 609.6, 58-70 CPS AT 609.8	
611.9	1.9	MVVW	QTE	AS TO 526.3-SPKS PY 1%-SPKS PY 1% 17-22 CPS	
612.3	0.4	MVW	CONG	AS TO 610.0-SPKS PY 2-3%-88-100 CPS	
617.3	5.0	MVVW	QTE	AS TO 526.3-SPKS PY 1%	
624.0	6.7		QTE	AS TO 526.3	
626.3	2.3		QTE	PEBBLY-IRREGULAR ELONGATED QTZ PEBBLES UP TO 0.8 INCHES LONG-VARIABLE DENSITY-SPKS PY 1%	60
626.9	0.6		QTZ	VEIN-WHITE MASSIVE-25% MAFIC INCLUSIONS	
627.6	0.7		QTE	PEBBLY-SIMILAR AS TO 626.3 BUT PEBBLES INDISTINCT	
628.1	0.5		QTZ	VEIN-WHITE MASSIVE-10% MAFIC INCLUSIONS	
629.4	1.3	MVVW	CONG	AS TO 547.2-80% PEBBLES DECREASING IN SIZE & % DOWNHOLE-SPKS PY 1%-22-40 CPS	60
629.6	0.2	MVVW	QTE	AS TO 526.3-SPKS PY 1%	
629.9	0.3	MVVW	QTE	PEBBLY-AS TO 626.3-SPKS PY 1%	
632.1	2.2	MVVW	QTE	AS TO 526.3-SPKS PY 1%	60
633.2	1.1	MVVW	RDCT	AS TO 556.6-SPKS 1-2%-CTS SHARP	
634.2	1.0	MVW	QTE	FG-MG-LIGHT GREY-STRS MICA CHLORITE-CLOTS PY 2-3%-28-38 CPS AT 633.3, 62 TO 74 CPS AT 633.5, 40-50 CPS AT 633.7	60
634.4	0.2	MVVW	RDCT	AS TO 556.6-SPKS PY 1%-SHARP CTS	
635.3	0.9	MVVW	QTE	AS TO 634.2-SPKS PY 1%	
635.8	0.5	MVVW	QTE	AS TO 526.3-SPKS PY 1%	
643.1	7.3		RDCT	AS TO 556.6-SPKS PY 1-2%-BANDED (COMPOSITION VARIATIONS)-NUMEROUS SMALL FRACTURES	
650.2	7.1		RDCT	AS TO 556.6-IRREGULAR INTERBANDS WHITISH PINK RHYOLITE -SPKS PY 1-2%	
658.4	8.2		RDCT	AS TO 556.6-SPKS PY 1-2%-LOWER CT SHARP AT 35	
670.3	11.9		QTE	INTERBANDED LAMINATIONS & SMALL BEDS (SHARP CTS) OF QTE AS TO 634.2,META GWKE (FG-MG-GREY GREEN-AMPHIBOLE MICA & FELDSPAR IN VARYING PROPORTIONS), META-ARKOSE (FG-GREY BROWN MICACEOUS), & BIOTITE RICH BNDS AT 45 TO 50 DOWNHOLE	
672.6	2.3		QTE	LIGHT GREY-YELLOW-FG-MG-SERICITIC-MINOR MAFICS-X-BEDDED	
673.8	1.2		QTE	FG-MG-GREY-10-15% MICA CHLORITE BECOMING QTE AS TO 672.6 DOWNHOLE-X-BEDDED	
680.6	6.8		QTE	AS TO 672.6	45

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
681.6	1.0		QTE	AS TO 673.8-SLIGHTLY LESS MAFIC DOWN HOLE	45
683.0	1.4		GWKE	META-FG-MG-DK BROWN-MICA RICH-MINOR FELDSPAR-AMPHIBOLE-NUMEROUS ROUNDED QTZ CLASTS (FRAGMENTS)	35
683.8	0.8		QTE	AS TO 672.6-UNDULATING BEDDING (SLUMPING)	
684.3	0.5		QTE	AS TO 673.8 UNDULATING BEDDING (SLUMPING)	
685.3	1.0		QTE	TO 672.6-LOWER CT UNDULATING-BEDDED	
685.5	0.2		GWKE	META-AS TO 683.0	
686.4	0.9		QTE	AS TO 672.6-LOCAL MORE MAFIC BNDS (BEDS) UP TO 50%	45
690.8	4.4		QTE	AS TO 672.6	35
698.0	7.2		QTE	AS TO 684.4-FOTD 50 TO 30 DOWNHOLE	
699.9	1.9		QTE	FG-MG-DK GREY-MICA CHLORITE 10-15% SPKS PY 1%	40
700.9	1.0		QTE	AS TO 673.8	30
703.3	2.4		QTE	AS TO 699.9-2 INCH QTZ VEIN AT 701.8	30
704.6	1.3		QTE	AS TO 686.4	30
706.2	1.6		GWKE	META-AS TO 683.0-NO QTZ CLASTS-SPKS PY 1%	45
706.9	0.7		QTE	AS TO 672.6	45
707.6	0.7		QTE	AS TO 699.9	50
719.0	11.4		QTE	AS TO 686.4-X-BEDDED 50 AT 708.6, 30 AT 715.9, 15 AT 717.0, 30 AT 718.0	
728.7	9.7		DIA	META-FG-MG-DK GREEN-AMPHIBOLE RICH FOTD CTS	
729.7	1.0		GWKE	META-AS TO 420.7-SPKS PY 1-2%	45
740.7	11.0		QTE	AS TO 686.4-BEDDED 45 AT 731.5, 40 AT 737.5	
742.0	1.3		QTE	AS TO 672.6	35
744.7	2.7		QTE	AS TO 686.4	45
747.5	2.8		QTE	FG-MG-GREY BROWN-MASSIVE-5-10% MICA CHLORITE INTERSTITIAL TO QTZ GRAINS	
749.6	2.1		QTE	AS TO 686.4	35
750.2	0.6		QTE	AS TO 747.5	
755.0	4.8		DIA	META-AS TO 728.7 FOOT OF HOLE	

SPECTROMETER READINGS WITH SCINTREX GIS-3 NUMBER 905 107
THIN SECTIONS AT 94.3 & 555.6

BOREHOLE RECORD
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DATE PROCESSED APR 01,1974

CHK'D.....

BOREHOLE#	PROPERTY	NTS#	SH#	ANOM#	DEPTH	AZIMUTH	DIP	LATITUDE	DEPARTURE	ELEVATION	LEVEL
55335-0	SAKAMI PROJECT	33F 2W			1011	180 00	-45 00	S 400	E 4000		

DATE.....

INCLINATION AND TROPARI TESTS

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP
100		-39 30	200		-36 30	300		-34 30	400		-33 00	500		-32 00
600		-30 00	700		-29 00	800		-27 30	900		-26 30	1000		-25 30

TOPS OF WEDGES

COMMENTS

LOGGED BY..DEBICKI E J STARTED..AUG 04,1973 COMPLETED..AUG 17,1973 DRILLED INSPIRATION-BBS 3-AQ CORE-PERMIT 546-ZONE 1&2
11 FEET AW CASING & AW CASING SHOE LEFT IN HOLE

SAMPLE ENTRIES

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
0.0	0.0			COLLAR	
9.0	9.0			OVERBURDEN-MUSKEG-11 FEET AW CASING START OF CORE	
14.5	5.5		QTE	LIGHT GREY-TINGE EYLLOW-FG-MG-SERICITIC-MICACEOUS-NUMEROUS QTZ GRITS-5-10% MICA (SOME EYES) CHLORITE-WELL FOTC	50
21.9	7.4		GWKE	META-FG-MG-DK BROWN GREEN-AMPHIBOLE & MICA RICH-MINOR FELDSPAR-BANDED (COMPOSITION VARIATIONS)-LOCAL QTZ STRS & DIOPSIDE SKARN-LOWER CT SHARP AT 60-SPKS PY 1%	50
22.8	0.9		RHY	QTE -FG-MG-BUFF GREY-INTERBANDED WITH DARKER GREY ZONES (RDCT)-QTZ FELDSPAR PORPHYRIES OR CLASTS (0.1 INCH) -SPKS PY 1%	50
23.6	0.8		QTZ	VEIN-WHITE MASSIVE	
30.9	7.3		RHY	AS TO 22.8-SPKS PY 1%-LOWER CT SHARP	50
31.3	0.4		GWKE	META-AS TO 21.9	
31.7	0.4		ARK	META-FG-MEDIUM GREY-5% MICA CHLORITE	50
32.0	0.3		GWKE	META-AS TO 21.9-SPKS PY 1%	50
33.1	1.1		QTE	FG-GREY-MICACEOUS-FELDSPATHIC-SPKS PY 1%	50
33.4	0.3		GWKE	META-AS TO 21.9-SPKS PY 1%	50
36.6	3.2		RHY	AS TO 22.8-SPKS PY 1%	
39.1	2.5	MVVW	GWKE	META-AS TO 21.9-OCC GARNETS NEAR BASE OF UNIT-SPKS PY 1%	50
41.4	2.3	MVW	SCH	(HIGHLY METAMORPHOSED METAGWKE OR NON-MAGNETIC IF)-CHLORITE MUSCOVITE SCHIST-OCC GARNETS-MG-PALE GREEN-BANDED-WELL FOTD-SPKS PY PO 1% IN BNDS-LOCAL BNDS AS TO 44.2	50
44.2	2.8	MVW	SCH	(HIGHLY METAMORPHOSED METAGWKE OR NON-MAGNETIC IF)-CHLORITE-BIOTITE GARNET SCHIST-MG-CG-DK BROWN GREY-WELL FOTC-BANDED-GARNETS UP TO 0.5 INCHES -SPKS PO 1-2%-MINOR PY IN BNDS	50

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
45.8	1.6	MVW	SCH	AS TO 41.4-SPKS PO 1-2% PY 1% IN BN DS-45.1 TO 45.4-QTZ VEIN WITH GALENA 1-2% AT CONTACTS & OCC SPKS THROUGHOUT	50
51.5	5.7	MVVW	SCH	AS TO 44-2-SPKS PY PO 1%-FOTD 55 TO 60 DOWNHOLE-LOWER CT SHARP	
59.2	7.7		QTE	FG-MEDIUM GREY-SERICITIC-5% MICA CHLORITE-LOCAL QTZ STRS-WELL BEDDED-MIN OR X-BEDDING AT 55-60 DEGREES	
65.9	6.7		QTE	FG-MEDIUM GREY-5-10% MICA CHLORITE-MINOR SERICITE-LOWER CT SHARP AT 60-LOCAL BNDS SPKS PY 1-2%-RADIOACTIVITY 22-27 CPS AT 60.1,38-48 CPS AT 60.5 & 22-27 CPS AT 61.0	
73.5	7.6		DIA	META-MG-GREY GREEN-AMPHIBOLE & FELDS PAR-MINOR MICACEAUS ZONES-WEAKLY FOLIATED	65
76.3	2.8		QTE	AS TO 59.2-BEDDING CONTORTED AT LOWER CT	40
86.9	10.6		SCH	AS TO 44.2-BNDS SPKS PO PY 1-2%	60
88.7	1.8		QTE	MG-GREY 10-15%-MICA CHLORITE CLOTS & STRS FINELY BANDED-FRACTURED-SPKS PO PY 1%-87.7-0.1 INCH PO FILLED FRACTURE	60
88.9	0.2		SCH	AS TO 44.2-SPKS PO 1%	60
97.8	8.9		DIA	META-AS TO 73.5	60
98.5	0.7		QTE	FG-GREY TO DK GREY-5 TO 10%-MICA CHLORITE-LOWER CT SHARP AT 50	50
99.4	0.9		GWKE	META-AS TO 21.9	50
101.3	1.9		QTE	AS TO 98.5	80
101.7	0.4		GWKE	META-AS TO 21.9	50
106.1	4.4		QTE	AS TO 98.5 WITH FG BROWN INTERSTITIAL MICA-SPKS PY 1%-BECOMES SERICITIC DOWNHOLE	50
106.4	0.3		GWKE	META-AS TO 21.9	50
110.5	4.1		QTE	AS TO 59.2-LOCAL MAFIC BNDS 106.6 TO 106.8-SPKS PY 1%-38-48 CPS	50
112.4	1.9		GWKE	META-AS TO 21.9	50
121.7	9.3		QTE	FG-LIGHT GREY-YELLOW-SERICITIC-LOCAL GRITTY ZONES-LOCAL MAFIC ZONES 115.3 TO 115.5-SPKS PY 1%-28-36 CPS	50
121.9	0.2		GWKE	META-AS TO 21.9	50
122.5	0.6		QTE	AS TO 59.2	50
123.6	1.1		GWKE	META-AS TO 21.9	50
124.3	0.7		QTE	AS TO 59.2	50
124.8	0.5		GWKE	META-AS TO 21.9	50
125.3	0.5		QTE	AS TO 59.2	50
126.1	0.8		GWKE	META-AS TO 21.9-LOWER CT SHARP AT 50	50
127.1	1.0		QTE	AS TO 59.2-MORE MAFIC DOWNHOLE	50
128.9	1.8		GWKE	META-AS TO 21.9-SPKS PY 1%	50
129.2	0.3		RDCT	PORPHYRITIC-WHITE QTZ FELDSPAR PORPHYRIES 10-15% (UP TO 0.1 INCH) IN FG DK GREY FELDSPAR MICA MATRIX-SPKS PO 1%	
129.3	0.1		GWKE	META-AS TO 21.9	50

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
129.5	0.2		RDCT	AS TO 129.2	
129.7	0.2		GWKE	META-AS TO 21.9	50
130.7	1.0		RDCT	AS TO 129.2	
130.9	0.2		GWKE	META-AS TO 21.9-FOTD 70 TO 40 DOWNHOLE	
134.2	3.3		RDCT	AS TO 129.2-1 INCH METAGWKE BNDS AT 131.4 & 132.1	
135.5	1.3		GWKE	META-AS TO 21.9	60
137.2	1.7		RDCT	AS TO 129.2	
137.6	0.4		GWKE	META-AS TO 21.9	60
138.0	0.4		RDCT	AS TO 129.2	
139.0	1.0		GWKE	META-AS TO 21.9	50
140.2	1.2		RDCT	AS TO 129.2	
140.6	0.4		GWKE	META-AS TO 21.9	60
141.5	0.9		RDCT	AS TO 129.2	
142.3	0.8		RDCT	(META-ARKOSE)-SIMILAR AS TO 129.2 BUT DK GREY MATRIX, FEWER PROPHYRIES MORE MICACEOUS-INTERFINGERED NARROW QTZ, MINOR CALCITE & AMPHIBOLE BNDS (LIGHT GREY)-SPKS PY 1% ALONG FOTN PLANES)	
149.6	7.3		QTE	AS TO 59.2-FOTD 65 TO 50 DOWNHOLE-LOWER CT SHARP AT 50	
154.2	4.6		GWKE	META-AS TO 21.9	60
161.4	7.2		QTE	AS TO 65.9	60
161.7	0.3		GWKE	META-AS TO 21.9-SHARP CTS	60
162.4	0.7		QTE	FG-MEDIUM GREY (SLIGHTLY YELLOW)-HIGHLY SERICITIC-5-10% MICA (MAINLY AS EYES ELONGATED ALONG STRONGLY DEVELOPED FOTN PLANES) & CHLORITE	60
162.6	0.2		GWKE	META-AS TO 21.9	60
166.8	4.2		QTE	AS TO 162.4	60
167.0	0.2		GWKE	META-AS TO 21.9-50% SKARN	60
172.4	5.4		QTE	AS TO 162.4	60
172.5	0.1		AMPH	CG-DK GREEN-FIBROUS AMPHIBOLE, 10% BIOTITE FLAKES-MINOR FELDSPAR-SPKS 1%	
174.9	2.4	MVVw	QTE	AS TO 162.4-SPKS PY 1%	60
179.8	4.9	MW	IF	INTERBANDED METAGWKE, QTE (QTZ RICH) BANDS, CHLORITE MICA SCHIST (NO SULPHIDES) & SULPHIDE IF (60%) BANDS WITH MASSIVE PO 25%, PY 50% (25% QTZ GRAINS)-MINOR MT 2-3% NEAR BASE UNIT	
180.6	0.8	MVVw	GWKE	META-AS TO 21.9-AMPHIBOLE RICH-SPKS PY 1%	60
180.9	0.3		GWKE	META-AS TO 21.9-BIOTITE RICH-SPKS PY 1%	60
181.8	0.9		QTE	PEBBLY-25% ELONGATED OPAQUE QTZ PEBBLES UP TO 0.8 INCHES DECREASING IN % DOWNHOLE IN FG DK GREY BIOTITE MATRIX-SPKS PY 1% ALONG FOTN PLANES	60
183.8	2.0		QTE	AS TO 65.9-SPKS PY 1%	60
186.5	2.7		QTE	AS TO 59.2 WITH 5-10% HEMATITIC STAINING	50
193.6	7.1		QTE	AS TO 59.2	50

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
196.0	2.4		QTE	AS TO 65.9-SPKS PY 1%	50
196.4	0.4		QTE	AS TO 59.2	60
204.6	8.2		QTE	AS TO 98.5-LOCAL SPKS CLOTS PY ALONG FOTN PLANES IN MORE MAFIC ZONES	60
205.2	0.6		QTE	FG-MG-GREY GREEN-GRANULAR 10-15% INTERSTITIAL MICA CHLORITE-LOCAL AMPHIBOLITIC BNADS-SPKS PY 1%	
206.1	0.9		QTE	AS TO 98.5	60
207.2	1.1		QTE	AS TO 98.5-FRACTURED-207.1-1 INCH BAND CONTORTED LAMINATED BIOTITE WITH SMALL ELONGATED QTZ PEBBLES & CLOTS PY 5%, PO 1-2%	
209.2	2.0		QTE	AS TO 98.5	60
212.2	3.0		GWKE	META-AS TO 21.9-SPKS PY 1%	60
212.8	0.6		QTE	AS TO 98.5	60
213.9	1.1		RDCT	AS TO 129.2- 5% PORPHYRIES	60
219.0	5.1		RDCT	AS TO 129.2-50-60% PORPHYRIES	60
221.7	2.7		RDCT	AS TO 129.2- 5% PORPHYRIES DECREASING IN % DOWNHOLE	60
222.4	0.7		QTE	AS TO 65.9-SPKS PY 1% ALONG FOTN PLANES	60
222.7	0.3		GWKE	META-AS TO 21.9-BIOTITE RICH	60
224.1	1.4		QTE	AS TO 65.9	60
226.6	2.5		QTE	AS TO 205.2-LOCAL GARNETS-SPKS PY 1%	60
232.6	6.0		QTE	AS TO 59.2-FOTD 50-60	
252.4	19.8		GWKE	META-CHLORITE MICA GARNET SCHIST-MG GREY-MINOR FELDSPAR-BANDED (COMPOSITION VARIATIONS)-MINOR GREEN AMPHIBOLE ZONES & TREMOLITE ANTHOPHYLCITE ZONES-SIMILAR AS TO 406.6 OF BH 55327	
254.0	1.6		DIA	META-AS TO 73.5	
257.7	3.7		RDCT	AS TO 129.2-PORPHYRIES UP TO 0.2 INCHES-SHARP CTS	
264.4	6.7		DIA	META-AS TO 73.5-CG	
273.5	9.1	MVVW	UM	ALTERED-FG-DK GREEN-MASSIVE-CHLORITE TREMOLITE ACTINOLITE RICH-CARBONATE 5%-MT 1-2%-SPKS PO 1%	
274.0	0.5		DIA	META-AS TO 73.5-1 INCH BICTITE RICH CT ZONES	
277.3	3.3	MVW	UM	AS TO 273.5-MT 1-2%-SPKS PC CP 1-2%	
278.9	1.6		GAB	META-FG-MG-AMPHIBOLITIC-MINOR BIOTITE-LOCAL WELL DEVELOPED BROWN AMPHIBOLES UP TO 0.2 INCHES (SECONDARY)-SPKS PC CP 1%	
280.2	1.3		QTZ	VEIN-INCLUSIONS ALONG CTS	
283.3	3.1		GAB	META-AS TO 278.9-283.1-1 INCH MASSIVE BND BROWN AMPHIBOLES DECREASING IN % DOWNHOLE (CRYSTAL SETTLING)	
284.0	0.7		VOLC	ANDESITE-BASALT-FG-DK GREEN-CHLORITE AMPHIBOLE RICH-SPKS PY PO 1%-SHARP CTS	
286.9	2.9		GAB	META-AS TO 278.9-NO BIOTITE-CG	
287.9	1.0		ARK	META-MICACEOUS-FG-GREY-SHARP CTS	
288.5	0.6		GAB	META-AS TO 286.9-NO BIOTITE	
294.2	5.7		ARK	META-AS TO 287.9-WEAKLY FOTD	60

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
298.5	4.3		GAB	META-AS TO 286.9	
300.2	1.7		GWKE	META-AS TO 21.9	60
301.4	1.2		ARK	META-AS TO 287.9	
304.1	2.7		GAB	META-AS TO 286.9	
304.5	0.4		ARK	META-AS TO 287.9	
328.7	24.2		GAB	META-AS TO 286.9-308.0 TO 309.2-0.1 INCH MAFIC FILLED FRACTURE AT 5 DEGR EES	
329.0	0.3		ARK	META-AS TO 287.9	
339.8	10.8		GAB	META-AS TO 286.9	
343.8	4.0		QTZ	VEIN-INCLUSIONS AT CTS	
347.1	3.3		GAB	META-AS TO 286.9-FOTD AT LOWER CT-2 INCH QTZ VEIN AT 345.9	60
348.4	1.3		ARK	META-AS TO 287.9	
348.7	0.3		GWKE	META-AS TO 21.9	50
353.0	4.3		RHY	QTE -AS TO 22.8-SPKS PY PO 1%-LOWER CT SHARP AT 60	
357.4	4.4		GWKE	META-AS TO 21.9-LOCAL SKN BNDS	60
364.6	7.2		RHY	QTE -AS TO 22.8-SPKS PY 1%	60
365.0	0.4		QTE	MICACEOUS-FG-MEDIUM GREY-5-10% MICA CHLORITE	60
365.5	0.5		GWKE	META-AS TO 21.9-SPKS PY 1%	60
366.4	0.9		RDCT	AS TO 129.2-SHARP CTS	60
367.0	0.6		GWKE	META-AS TO 21.9-SHARP CTS	60
376.4	9.4		QTE	FG-MG-GREY TO DK GREY-ZONES (25%) OF INDISTINCT OPAQUE ELONGATED QTZ PEBB LES (25%) 0.5 INCHES IN FG MICA CH LORITE QTZ MATRIX-BANDED (QTZ RICH ZONES)-LOCAL QTZ VEINING-SPKS PY 1%	65
379.2	2.8		RDCT	AS TO 129.2	60
380.1	0.9		GWKE	META-AS TO 21.9	70
387.0	6.9		QTE	AS TO 376.4-SPKS PY PO 1%-PEBBLY ZO NES 5%	
387.1	0.1		GWKE	META-AS TO 21.9	65
387.3	0.2		SCH	AS TO 41.4	65
387.5	0.2		GWKE	META-AS TO 21.9	65
387.9	0.4		SCH	AS TO 41.4	65
388.7	0.8		SCH	AS TO 44.2	60
389.4	0.7		VOLC	AS TO 284.0-SPKS PY 1%	
395.2	5.8		SCH	AS TO 44.2-BNDS OF SPKS PY 1%	60
396.1	0.9		SCH	AS TO 41.4	60
401.6	5.5		SCH	AS TO 44.2	60
402.1	0.5		RHY	AS TO 22.8-GARNETS-SHARP CTS	
404.4	2.3	MVVW	SCH	AS TO 44.2-SPKS PO PY 1%	60
404.9	0.5	M	SCH	AS TO 44.2-PO PY CLOTS 50%	60
409.7	4.8	MVVW	SCH	AS TO 44.2-SPKS PY PO 1%	60
411.4	1.7		QTE	AS TO 365.0	
413.2	1.8		DIA	META-AS TO 73.5	
413.6	0.4		GWKE	META-AS TO 21.9	45
419.4	5.8		QTE	AS TO 65.9 WITH CONTORTED HIGHLY SER ICITIC CHLORITIC PALE GREEN FG BNDS -OCC BROWNISH RED GARNETS	
423.1	3.7		DIA	META-AS TO 73.5	
430.2	7.1		QTE	AS TO 59.2-FOTD 45 TO 55 DOWNHOLE	
436.5	6.3		SCH	AS TO 44.2-CLOTS PO 1%	50

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
436.9	0.4		SCH	AS TO 41.4	50
439.8	2.9		SCH	AS TO 44.2	50
440.1	0.3		QTE	AS TO 365.0-SHARP CTS	
442.1	2.0		SCH	AS TO 44.2	55
443.9	1.8		SCH	AS TO 44.2-NO GARNETS-LOCAL INTERBAN DS QTE AS TO 59.2 (MINOR FUCHSITE)	55
447.5	3.6		QTE	AS TO 59.2-FOTD 60 TO 55 DOWNHOLE	
448.6	1.1		RDCT	AS TO 142.3	60
455.4	6.8		RDCT	AS TO 129.2	60
457.0	1.6		RDCT	AS TO 142.3	60
463.6	6.6		GWKE	META-MTSD-MG-CG-BANDED (COMPOSITION VARIATIONS) DK GREEN AMPHIBOLE FELDS PAR RICH BNDS, DK BROWN MICA RICH BN DS & BNDS MICA EYES UP TO 35% & 0.2 INCHES LONG ELONGATED IN FOTN PLANES	60
464.9	1.3		RDCT	AS TO 142.3	60
469.1	4.2		RDCT	AS TO 129.2	60
470.4	1.3		RDCT	AS TO 142.3	60
471.1	0.7		QTZ	VEIN	
474.3	3.2		GWKE	META-AS TO 463.6	60
475.0	0.7		QTE	AS TO 365.0	60
487.0	12.0		GWKE	META-AS TO 21.9-MINOR BIOTITE-OCC SP KS PY	60
490.0	3.0		GWKE	META-AS TO 463.6	60
493.4	3.4		ARK	META-MICACEOUS-FG-MG-GREY BROWN-INTE RFINGERED QTE RICH BNDS-SIMILAR AS RDCT AS TO 142.3	
494.8	1.4		GWKE	META-AS TO 463.6	60
498.9	4.1		SCH	AS TO 44.2	60
502.0	3.1		GWKE	META-AS TO 463.6	60
504.2	2.2		GWKE	META-AS TO 21.9	60
510.3	6.1		GWKE	META-AS TO 463.6	60
511.8	1.5		ARK	META-FG-MEDIUM GREY-FELDSPAR-QTZ-MIC A & CHLORITE COMPOSITION-MICA RICH FOTN PLANES-BEDDED TO LAMINATED-LOCA PEBBLES (MICA SELVAGES) & ZONES NUME ROUS MICA BNDS	60
524.8	13.0		GWKE	META-AS TO 463.8	60
539.7	14.9		ARK	META-AS TO 511.8-0.5 INCH FUCHSITE BND AT 511.4	60
548.9	9.2		ARK	META-AS TO 511.8-NON-PEBBLY-WELL FOL IATED	60
550.3	1.4		QTE	AS TO 65.9	
554.5	4.2		RHY	QTE -AS TO 22.8-SPKS PY 1%-SHARP CT S	60
555.9	1.4		ARK	META-AS TO 548.9	60
557.6	1.7		RHY	AS TO 22.8-SHARP CTS-SPKS PY 1%	60
574.7	17.1		ARK	META-AS TO 548.9	60
576.5	1.8		QTE	AS TO 98.5-SHARP CTS	
578.5	2.0		ARK	META-AS TO 548.9	60
588.4	9.9		UM	AS TO 273.5-LOCAL DIOPSIDE SKN BNDS-OCC SPKS PO-ZONES MT 1-2%	
589.2	0.8		AMPH	CG-BLACK AMPHIBOLES-FG GREEN AMPHIBO LE MATRIX	
593.0	3.8		UM	AS TO 273.5 BECOMING BIOTITIC & FOTC	60

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
				DOWNHOLE-590.3-1 INCH BIOTITE BAND	
600.1	7.1		GAB	META-SIMILAR AS TO 278.9	60
601.6	1.5		GWKE	META-AS TO 21.9-FINER GRAINED	
607.9	6.3		GWKE	META-AS TO 21.9	70
613.7	5.8		RDCT	AS TO 129.2-FOTD 70 TO 60 DOWNHOLE SPKS PY 1%	
620.7	7.0		GWKE	META-AS TO 21.9	60
627.8	7.1		ARK	META-AS TO 511.8-FOTD 60 TO 70 DOWNHOLE	
628.8	1.0		RDCT	AS TO 129.2	
630.7	1.9		ARK	META-AS TO 548.9	
636.8	6.1		GWKE	META-AS TO 21.9-LOCAL DIOPSIDE SKN (CALCITE RICH)-WEAKLY FOTD	70
637.5	0.7		RDCT	AS TO 129.2	
638.2	0.7		GWKE	META-AS TO 21.9	70
638.7	0.5		RDCT	AS TO 142.3-FOTD 70 TO 50 DOWNHOLE	
641.8	3.1		RDCT	AS TO 129.2	
644.4	2.6		ARK	META-AS TO 548.9	65
647.4	3.0		QTE	AS TO 65.9	70
647.8	0.4		RDCT	AS TO 129.2	
649.7	1.9		QTZ	VEIN	
652.8	3.1		QTE	AS TO 98.5-FOTD 60 TO 50 DOWNHOLE	
664.0	11.2		RHY	AS TO 22.8-SPKS PY PO 1%	70
668.5	4.5		QTE	AS TO 98.5	60
669.6	1.1		QTE	AS TO 205.2	
674.9	5.3		QTE	AS TO 98.5	60
688.5	13.6		RHY	AS TO 22.8-SPKS PY PO 1%	65
693.7	5.2		QTE	AS TO 205.2	
694.3	0.6		QTE	AS TO 59.2	60
699.1	4.8		QTE	AS TO 205.2-694.3 TO 696.1-CCC GARNETS-MORE MAFIC-WEAKLY FOTD-SPKS PO PY 1%	50
699.8	0.7		QTE	AS TO 65.9	50
702.3	2.5		QTE	AS TO 205.2-MG-CG-MINOR QTZ GRITS	
705.2	2.9		QTE	AS TO 98.5	
705.7	0.5		QTZ	VEIN	
715.7	10.0		QTE	AS TO 98.5-LOCAL QTZ RICH BANDS	70
717.5	1.8		QTE	AS TO 98.5-FAULT ZONE-CORE BRECCIATED GRANULATED WITH 50% MUD	
740.2	22.7		RHY	AS TO 22.8-SPKS PY 1%-718.6 TO 719.3-QTZ VEINING AT 0 DEGREES-720.0 TO 722.0-CRUSHED CORE (FAULT)-730.3 TO 732.6-HIGHLY FRACTURED	
744.7	4.5		QTE	AS TO 98.5	60
745.6	0.9		QTE	AS TO 65.9	
748.2	2.6		QTE	AS TO 98.5-LOCAL QTZ RICH ZONES	70
749.4	1.2		QTE	AS TO 98.5 BUT 75% QTZ VEINING	
749.6	0.2		QTE	PEBBLY-AS TO 98.5-25% ELONGATED TO SUBROUNDED UNORIENTED TRANSLUCENT QTZ PEBBLES (0.2 INCHES)	
751.8	2.2		QTE	AS TO 98.5	70
764.1	12.3		QTE	AS TO 65.9-LESS MAFIC DOWNHOLE-FOTD 60 TO 70 DOWNHOLE	
765.2	1.1		ARK	META-FG-GREY BROWN HIGHLY MICACEOUS	60
767.3	2.1		ARK	META-AS TO 548.9	65

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
768.6	1.3		GWKE	META-AS TO 21.9-60% CALCITE VEINING (SKN)	
771.1	2.5		ARK	META-AS TO 548.8	65
771.7	0.6		RHY	AS TO 22.8	
772.8	1.1		GWKE	META-AS TO 21.9	65
774.6	1.8		QTE	AS TO 98.5-LOCAL QTZ RICH ZONES	65
778.0	3.4		RHY	AS TO 22.8	
778.7	0.7		DIA	META-AS TO 73.5-FINER GRAINED	
782.8	4.1		RHY	AS TO 22.8	
783.5	0.7		QTE	AS TO 98.5	
792.3	8.8		RHY	AS TO 22.8	
793.2	0.9		ARK	META-AS TO 765.2-SHARP CTS	
794.0	0.8		RHY	AS TO 22.8-LOWER CT SHARP	
808.2	14.2		ARK	META-AS TO 490.4-SIMILAR AS ROCT AS TO 142.3-NUMEROUS MICA EYES IN PLANES OF FOTN	65
809.5	1.3		GWKE	META-AS TO 21.9	65
813.2	3.7		ARK	META-AS TO 808.2	65
831.0	17.8		GWKE	META-INTERBANDED BEDS AS TO 463.6 & 21.9 & META-ARKOSE AS TO 765.2-LOCAL DIOPSIDE CALCITE SKN BNDS-FOTC 60 TO 65	
834.2	3.2		QTE	AS TO 205.2-LOCAL SKN ZONES-SHARP CONTACTS	65
835.2	1.0		GWKE	META-AS TO 831.0	65
836.0	0.8		QTE	AS TO 205.2	60
837.0	1.0		GWKE	AS TO 831.0-40% SKN	
841.0	4.0		QTE	AS TO 205.2	
843.7	2.7		GWKE	META-AS TO 831.0	70
844.1	0.4		QTE	AS TO 205.2-843.7-PO 1% ALONG FOTN PLANE	70
847.8	3.7		GWKE	META-AS TO 831.0	70
849.0	1.2		SKN	CALCITE RICH-MINOR DIOPSIDE-WHITE GREY-CG	
859.4	10.4		GWKE	META-AS TO 831.0	70
865.9	6.5		ARK	META-AS TO 808.2	70
872.2	6.3		GWKE	META-AS TO 831.0	70
872.7	0.5		ARK	META-AS TO 808.2	70
873.8	1.1		GWKE	META-AS TO 831.0	70
878.5	4.7		ARK	META-AS TO 765.2	70
887.4	8.9		DIA	META-AS TO 73.5-WELL FOTD-AMPHIBOLE RICH-MINOR SKN BNDS	70
888.4	1.0		QTE	AS TO 98.5	70
895.1	6.7		DIA	META-AS TO 73.5	70
895.9	0.8		QTE	AS TO 365.0	
900.5	4.6		ROCT	AS TO 143.2-SHARP CTS	
902.1	1.6		QTE	AS TO 365.0-LOWER CT SHARP AT 70	
902.9	0.8		GWKE	META-AS TO 21.9-LOWER CT IRREGULAR	70
906.0	3.1		ROCT	AS TO 143.2-LOWER CT SHARP	
912.8	6.8		GWKE	META-AS TO 21.9	70
913.3	0.5		QTZ	VEIN-INCLUSIONS AT CONTACTS	
925.2	11.9		QTE	AS TO 65.9	70
926.1	0.9		GWKE	META-AS TO 21.9	70
936.7	10.6		QTE	AS TO 65.9	70
942.8	6.1		QTE	AS TO 20K.2	70

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
943.1	0.3		GWKE	META-AS TO 21.9-HIGHLY BICTITIC IRREGULAR CTS	
943.8	0.7		QTE	AS TO 205.2	70
944.6	0.8		GWKE	META-AS TO 943.1	
950.7	6.1		QTE	AS TO 65.9	70
976.5	25.8		DIA	META-AS TO 73.5-FG-LOCAL QTZ VEINS 974.0-976.5-SMALL PINK QTZ FELDSPAR VEINS	
980.9	4.4		RHY	AS TO 22.8	
983.9	3.0		QTE	AS TO 65.9	70
984.4	0.5		RHY	AS TO 22.8-SHARP CTS	
985.2	0.8		QTE	AS TO 65.9	70
994.5	9.3		DIA	META-AS TO 73.5	
1008.9	14.4		QTE	AS TO 59.2-LOCAL BNDS AS TO 65.9	70
1011.0	2.1		DIA	META-AS TO 73.5 BUT FG-	

FOOT OF HOLE
SPECTROMETER READINGS WITH SCINTREX
GIS-3 NUMBER 905 107
THIN SECTION AT 22.1

BOREHOLE RECORD
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DATE PROCESSED APR 01,1974

CHK'D.....

BOREHOLE#	PROPERTY	NTS#	SH#	ANOM#	DEPTH	AZIMUTH	DIP	LATITUDE	DEPARTURE	ELEVATION	LEVEL
55336-0	SAKAMI PROJECT	33F 2W			219	180 00	-45 00	S 1000	W 6000		DATE.....

INCLINATION AND TROPARI TESTS

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP
100		-42 30	200		-42 30									

TOPS OF WEDGES

COMMENTS

LOGGED BY..DEBICKI E J STARTED..AUG 06,1973 COMPLETED..AUG 12,1973 DRILLED INSPIRATION-BBS 1-AQ CORE-PERMIT 547-ZONE 3
122 FEET AW CASING & AW CASING SHOE LEFT IN HOLE

SAMPLE ENTRIES

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
0.0	0.0			COLLAR	
120.0	120.0			OVERBURDEN-0-10 SAND, 10-10.3 BOULDER, 10.3-11 SAND, 11-11.4 BOULDER, 11.4-16 SAND, 16-17 BOULDER (DIABASE), 17-20 SAND, 20-30 GRAVEL, 30-34 SAND, 34-34.6 BOULDER, 34.6-66 SAND, 66-70 BOULDER (GRANITIC , 70-85 SAND, 85-97 SAND & BOULDERS (UM), 97-120 SAND-122 FEET AW CASING-START OF CORE	
124.0	4.0		UM	CG-PALE GREEN-TREMOLITE ACTINOLITE RICH-SLIGHTLY TALCOSE-LOWER CT SHARP	
125.2	1.2		QTE	MG-GREY-GRANULAR-MICACEOUS (5-10%) LOWER CT SHARP	
140.5	15.3		DIA	META-MG-AMPHIBOLE FELDSPAR BIOTITE-LOCAL BIOTITE RICH ZONES & QTZ VEINS-SPKS PY PO 1%-WEAKLY FOTD	55
142.0	1.5		QTE	FG-GREY-5-10% MICA CHLORITE MAINLY ALONG WELL DEVELOPED FOTN PLANES-SHARP CTS	55
178.4	36.4		DIA	META-AS TO 140.5 BECOMING MORE BIOTITIC TO LOWER CT	55
194.3	15.9		UM	AS TO 124.0-MORE TALCOSE-NUMEROUS TREMOLITE SUNS	
195.0	0.7		UM	VFG-AMPHIBOLE CHLORITE-ALTERED CT ZONE	
197.6	2.6		QTE	CLEAN METAGWKE -MG-GREY GREEN-25% INTERSTITIAL MICA CHLORITE-25% ROUNDED TO SUBROUNDED QTZ CLASTS UP TO 0.1 INCH DECREASING IN SIZE & DENSITY DOWNHOLE-LOWER CT GRADATIONAL INTO NEXT UNIT	
214.0	16.4		QTE	FG-LIGHT GREY YELLOW-SERICITIC-MASSIVE-MINOR MAFIC STRS	
219.0	5.0		OB	BREAK THROUGH INTO OVERBURDEN OR FAULT ZONE -SAND & SEVERAL SMALL BOULDERS (GRANITE, DIABASE & MICACEOUS QTE)-HOLE ABANDONED (CEMENTING FAILED)	

DEPTH	LENGTH	MNZN ROCK	DESCRIPTION	ANG
			FOOT OF HOLE	

BOREHOLE RECORD

DATE PROCESSED APR 01,1974

CHK'D.....

BOREHOLE#	PROPERTY	NTS#	SH#	ANOM#	DEPTH	AZIMUTH	DIP	LATITUDE	DEPARTURE	ELEVATION	LEVEL
55337-0	SAKAMI LAKE	33F 2W			317	180 00	-48 00	S 1150	W 6000		DATE.....

INCLINATION AND TROPARI TESTS

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP
100		-41 30	200		-41 30									

TOPS OF WEDGES

LOGGED BY..DEBICKI E J STARTED..AUG 12,1973 COMPLETED..AUG 29,1973

COMMENTS

DRILLED INSPIRATION-EES I-PERMIT 547-ZONE 3-92 FEET NX CASING LEFT IN HOLE

SAMPLE ENTRIES

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
0.0	0.0			COLLAR	
317.0	317.0			OVERBURDEN-317 FEET SAND & BOULDERS-POSSIBLE BEDROCK INTERSECTION 197 FT TO 216 FT OR 19 FOOT BOULDER-90 FEET NX CASING-206 FEET AW CASING-317 FEET AW RODS-WATER SEAM AT 270 FEET-ABANDONED IN OVERBURDEN-FOOT OF HOLE	

BOREHOLE RECORD
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DATE PROCESSED APR 01,1974

CHK'D.....

BOREHOLE#	PROPERTY	NTS#	SH#	ANOM#	DEPTH	AZIMUTH	DIP	LATITUDE DEPARTURE ELEVATION	LEVEL
55338-0	SAKAMI LAKE	33F 2W			246	180 00	-50 00	S 1500 W 6000	DATE.....

INCLINATION AND TROPARI TESTS

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP

TOPS OF WEDGES

COMMENTS

LOGGED BY..DEBICKI E J STARTED..AUG 30,1973 COMPLETED..SEPT 06,1973 DRILLED INSPIRATION BBS 1-PERMIT 547-ZONE 3-102 FEET NX CASING LEFT IN HOLE

SAMPLE ENTRIES

DEPTH	LENGTH	MNZN	ROCK	DESCRIPTION	ANG
0.0	0.0			COLLAR	
246.0	246.0			OVERBURDEN-246 FEET SAND & BOULDERS-102 FEET NX CASING-246 FEET BW RODS-HOLE STOPPED IN OVERBURDEN-FOOT OF HOLE	