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REPORT  
ON  
ST. JUDE RESOURCES LTD. PROPERTY  
EARNGEY TWP., UCHI LAKE AREA  
DISTRICT OF KENORA, ONTARIO  
1993 DIAMOND DRILLING

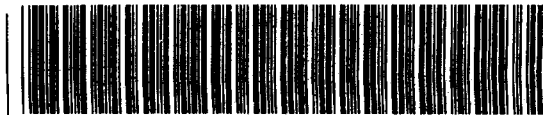
OCTOBER 8TH, 1993

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- Vertical Cross Section 1+50 N.....1" = 50 Ft.  
Includes Drill Holes 5,6,20,21.
- Vertical Cross Section 2+ 00 N.....1" = 50 Ft.  
Includes Drill Holes 7,8,11.
- Vertical Cross Section 2+50 N.....1" = 50 Ft.  
Includes Drill Holes 9,10,22,23
- Vertical Cross Section 3+00 N.....1" = 50 Ft.  
Includes Drill Holes 12.
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Includes Drill Holes 13.
- Vertical Cross Section 0+36 N.....1" = 50 Ft.  
Includes Drill Holes 14,15.
- Vertical Cross Section 0+04 S.....1" = 50 Ft.  
Includes Drill Holes 16,17.

Vertical Cross Section 1+00 N.....1" = 100 FT

Includes Drill Holes 1,2,3,4,18,19.

Vertical Longitudinal Section (Looking East) 1" = 50 Ft.

Along Woco Vein.

Plan of Diamond Drill Hole Collars                    1" = 50 Ft.  
and Survey Points.

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Vertical Longitudinal Section (Looking East) 1" = 50 Ft.

Along Woco Vein.

Plan of Diamond Drill Hole Collars                    1" = 50 Ft.  
and Survey Points.

## SUMMARY

Two stages of diamond drilling were carried out in the spring and fall of 1993, on St. Jude Resources Earngey Twp. Property. Twenty-three holes were drilled that totalled 7,709 feet. This program was very successful, it discovered the "rich Woco vein" and seven drill holes intersected the rich gold bearing vein.

The "Rich Woco Vein" is located along the contact interface between a competent Dacitic lava flow on the West side and a relatively incompetent basalt pillow lava on the East side, that is sheared at that contact. The Newly discovered "Rich Woco Vein" is essentially a "blind" Gold Deposit that crests about 170 ft. below surface. The "Rich Woco Vein" strikes N-10°-E and dips 80°-W to vertical. The crest of this Vein plunges about -5° Northwards. This Vein is open to the North and down dip, but, it is cut off by a vertical E-W fault at the South.

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In round figures a three hundred foot length is already indicated to the rich vein that has an averaged width of four feet and an averaged grade of 1.10 ounces gold per ton. The exploration to date indicates an averaged one hundred tons per vertical foot of 1.10 ounces grade of gold per ton (uncut). In the rich vein the gold mineralization is finely dispersed as visible gold that favours the east side of the vein. The vein is almost free of sulphides with the exception of traces

of pyrite and galena. This lack of sulphide mineralization is favourable to both high gold recoveries, also no pollution by acids or heavy metals would become a by-product in milling wastes, which is environmentally friendly.

The "rich Woco vein" can be extended northwards and to depth by further exploration, also a more comprehensive indication of tonnages should result .

A 10,000 foot drilling program is warranted and recommended to extend the "rich Woco vein" northwards and to depth by pattern drilling. The total cost of this program is estimated AT \$250,000.00

Other potential favourable exploration targets exist on the property especially the " Uchi break".



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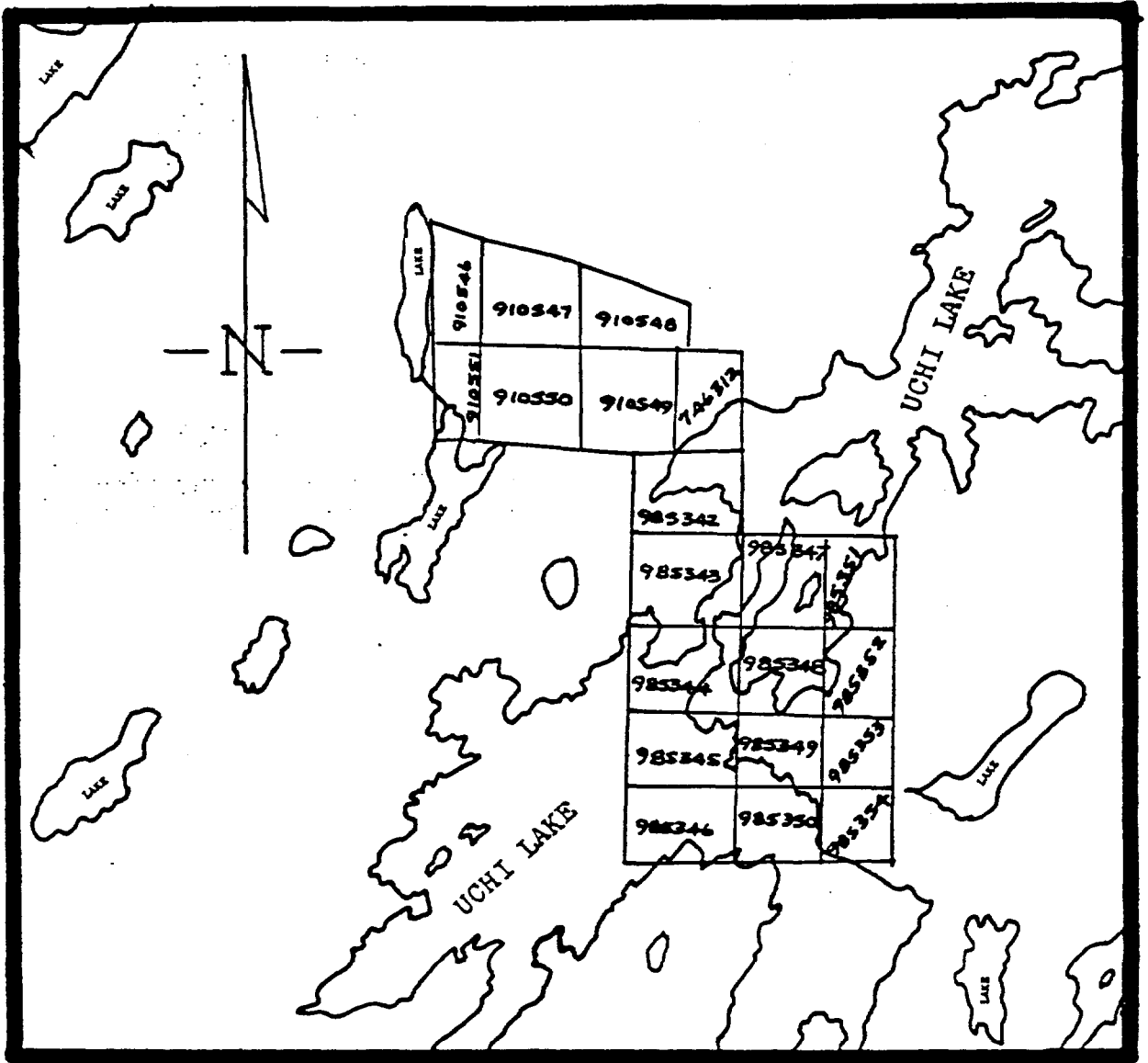
PROPERTY, LOCATION AND ACCESS

The property consists of 20 unpatented mining claims in Earngey Twp., in the mining district of Red Lake, District of Kenora, Ontario.

The claims are numbered as follows:

KRL 910546	KRL 985345
KRL 910547	KRL 985346
KRL 910548	KRL 985347
KRL 910549	KRL 985348
KRL 910550	KRL 985349
KRL 910551	KRL 985350
KRL 746312	KRL 985351
KRL 985342	KRL 985352
KRL 985343	KRL 985353
KRL 985344	KRL 985354

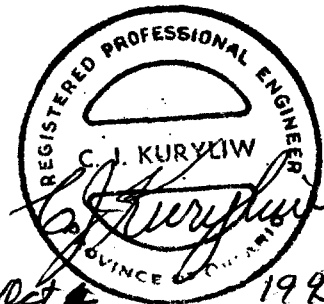
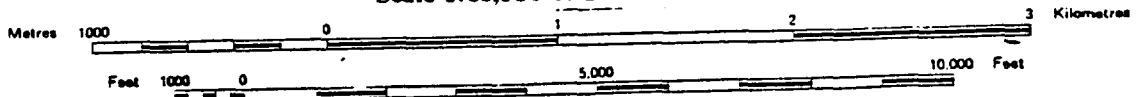
The property is readily accessible by fixed wing air-craft from Red Lake and Ear Falls, a distance of some 50 air miles. It is also readily accessible from the South Bay mines road which extends from Ear Falls to within five miles of the Property. Heavy equipment can be moved easily along a winter road or with some difficulty using a combination of barge and tracked vehicles. The topography of the property is relatively flat. Some outcrop ridges rise about fifty feet above the adjoining muskeg and light overburden. The area was timbered out about thirty years ago so only a few isolated patches of timber remain. A "Live" Ontario Hydro Power Line runs about one mile north of the Property.

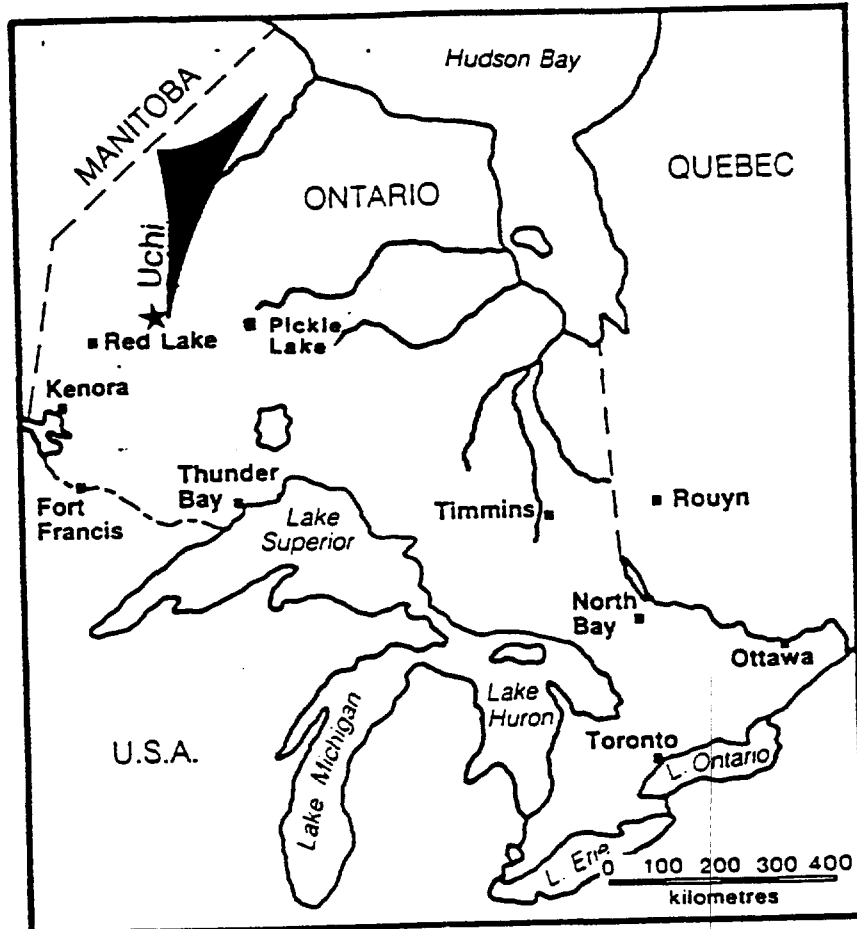


CLAIM GROUP  
ST. JUDE RESOURCES LTD. PROPERTY

**EARNGEY TOWNSHIP**  
 KENORA DISTRICT  
 Ontario

Scale 1:31,680 or 1 Inch to 1/2 Mile





LOCATION MAP  
ST. JUDE RESOURCES LTD.  
PROPERTY

## INTRODUCTION

In February 1993 M.J. Tyrell of Skead Ontario, representing St. Jude Resources arranged for this writer to direct and supervise a drilling program on the St. Jude Earngey Twp. property. He also engaged a field geologist, Dave Alderman and Kenora Soil and Drilling as a drilling contractor.

Diamond drilling was started in this first stage program March 06, 1993 and was completed April 08, 1993. A total of 17 drill holes (No's 1 - 17) that totalled 5,654 feet of B.Q core size was drilled.

A second stage of this drilling program on August 11, 1993 and completed September 07, 1993. Six holes (No's 18 - 23) that totalled 2,065 feet of B.Q core was drilled.

The sum total of the two stages of drilling amounts to 7,709 feet.

Dave Alderman was at the drilling site during the first stage, this writer directed and supervised both stages and carried out the field work in the second stage.

The drill core is stored at the drilling site. The first stage core is stored in one core rack and the second stage core is stored in a separate core rack. The split core samples with the "rich Woco vein" intersections from drill holes 1,4,11,12,20,21,22 , were taken out from the property in

separate core boxes and temporarily stored for security at this writers residence. This core has now been transferred for security to Kenora Soil and Drilling's vault in Kenora, Ontario.

The split core samples were shipped to Wawa Assaying Inc. Lab in Wawa, Ontario where the samples were fire assayed for gold. All significant assays were checked by a second sample portion at the lab.

At the end of the first stage of drilling a transit survey was carried out to locate the drill collar coordinates and their elevations for drill holes numbers 1 - 17. Some temporary survey points consisting of a nail in a large stump were established.

Casings were left in the deeper drill holes especially the ones that intersected the "rich Woco vein". These casings were left in the drill holes to allow for subsequent instrument testing along the drill holes for dip and bearing and also for cementing these drill holes.

All drill hole collars are marked with the appropriate aluminum tag number on a log inserted into the drill casing. The first three survey points in stumps were also tagged with appropriate numbers.

The second stage drill holes were surveyed using tape and compass, their elevations are all the same as drill hole number 1, because they all occur in a flat swamp.

Considerable difficulty was encountered with the unpredictable bending of drill holes which deflected from their intended targets. For instance, drill holes 12,13 and 23 which were all drilled at steeper than 60 degrees at the collar did not flatten as did other holes drilled in the - 50 degrees to 60 degree dip range, this resulted in greater depth of holes than intended and hole number 23 appears to have stopped short of the targeted Woco vein. Drill holes on the same section and below or to the South of drill hole Number 1 were deflected in bearing from East at the collar to E-S-E. These drill hole No's 15,18,19, missed the targeted Woco vein and ended up in the South fault block. The recommended down hole instrument surveys for dip and bearings will provide some indication of the patterns of bending of the drill holes which should assist in the targeting of drill holes in the next stages of drilling recommended.

The driller has left the drill on site because it is near impossible to move the heavy equipment over the bogs along the hydro route, he is stuck there until January 1994. He also has a 14 x 16 foot tent on site.

## REGIONAL, GENERAL GEOLOGY

The Geology of the Precambrian Superior province is subdivided into several sub-provinces (Please refer to the accompanying plan of the Geology of the Superior Province.)

Three of the Superior sub-provinces are recognized as containing numerous gold camps and gold deposits. Some of the occurrences were past producers, some are currently in production and some are being developed as gold mines. These Sub-Provinces are the Abitibi, Uchi, and Wawa.

The Uchi sub-province includes several gold camps; the Bissett area of Manitoba, the Rich Red Lake Camp, the Pickle Lake Camp and the Uchi Area.

The following abstract by P.C. Thurston of the Ontario Geological Survey aptly describes the Uchi Area, this is included on the following page.

The Earngey-Costello map area comprises the four townships of Earngey, Birkett, Agnew and Costello, a total of 400 km<sup>2</sup>, and lies about 90 km east of Red Lake. It is in the northern part of the Superior Province of the Canadian Shield and is part of the Birch-Uchi metavolcanic-metasedimentary belt, a north-trending portion of the generally east-west trending Uchi Sub-province, a belt of Early Precambrian metavolcanics and metasediments surrounded by granitic batholiths. The Birch-Uchi belt portion of the sub-province has a length of 64 km and a width of 32 km.

The belt is folded about a regional, central synclinal axis, and consists of three mafic to felsic volcanic cycles, comprising a total thickness of about 8460 m. The eastern portion of the area is complicated by the repetition of the metavolcanics of cycle I about a regional anticlinorium and numerous small flanking isoclinal folds which repeat the stratigraphy of cycle I and II rocks numerous times. The sequence consists of 56 percent mafic flows and hyaloclastites, 35 percent intermediate pyroclastics and flows and 8 percent felsic pyroclastics and rare flows. Metasediments make up but a minor part of the pile except at the top of cycle I where, west of the anticlinorium, 91 to 122 m of sandstones and mudstones are found. East of the anticlinorial axis a substantial thickness of metasediment, principally arenite-wacke couplets with minor argillite that occurs at the top of medium-bedded, graded units, occurs at the top of cycle I.

Cycle I, the stratigraphically lowest cycle, consists of a series of mafic flows and coeval mafic igneous intrusions 1723 m thick, overlain by a minimum of 518 to 534 m of intermediate pyroclastics and re-worked pyroclastics. The base of the cycle is not exposed and the upper portion grades laterally into a thick sequence of metasediments that underlies the eastern part of the area.

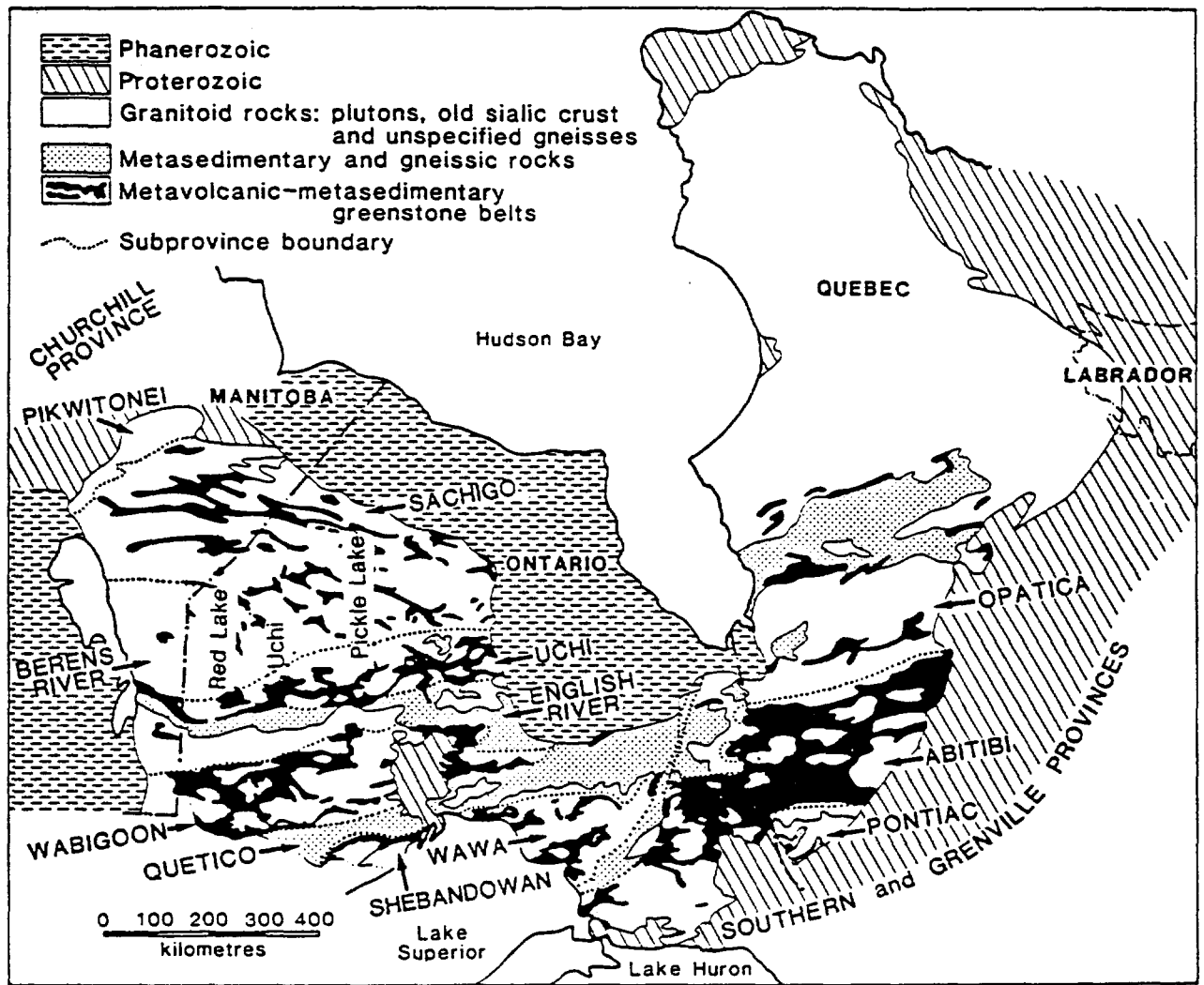
Cycle II, structurally complicated by closely-spaced isoclinal folds, consists of an average thickness of 1600 m of metabasaltic flows which are interbedded with thin rhyolitic tuffs and are followed by 488 m of intermediate pyroclastics ranging in composition from andesitic to rhyodacitic. The cycle is capped by a 30 m thickness of oxide facies iron formation. Cycle III consists of 1433 m of metabasaltic flows with some hyaloclastic horizons and a maximum of 1982 m of intermediate flows and pyroclastics capped, in the area of the South Bay Mine, by about 550 m of rhyolitic flows, breccias, and an endogenous dome of quartz-feldspar porphyry.

In the vicinity of Leg Lake, the metavolcanics of cycle I were intruded by three differentiated sills ranging in composition from metaperidotite to metagabbro.

The metavolcanics of cycle III are cut by sills and a stock of pre-metamorphic chloritic granodiorite. Following metamorphism, three batholiths of granitic rocks were intruded into the sequence. The Perrigo batholith consists of at least four phases, ranging from hornblende monzonite to hornblende-biotite granite. The Okanse Lake batholith on the northern margin of the map area and the Allison Lake batholith on the eastern margin, which were examined in reconnaissance fashion, appear to have caused the closely-spaced isoclinal folding found east of the centre of the Birch-Uchi belt. Their intrusion was, therefore, not passive.

The Uchi Gold Mines Limited mine at Uchi Lake produced a total of 114,467 oz of Au and 14,345 oz of Ag from 1938 to 1943. Numerous gold prospects were examined during 1927-1929, with underground development on the Bobjo prospect and the Grasset-Cameron prospect. Further gold exploration occurred during the period 1936-1943. The discovery, in 1968, of the South Bay Mines Limited volcanogenic massive sulphide copper-zinc-silver orebody 800 m west of the map area in Dent Township caused all of Earngey and Agnew Townships to be staked in 1969-1970 in an exploration effort devoted to locating this type of deposit.





*Sketch map of the Superior Province showing major lithologic and subprovince boundaries.*

**Ontario Geological Survey  
Miscellaneous Paper 132**

**1986**

## LOCAL GEOLOGY

### Introduction

In August 1968, this writer carried out a detailed geologic mapping of part of the Uchi Area that now includes the St. Jude property. This mapping on a scale 1" = 400' is on assessment files in Red Lake and has been incorporated in the Ontario geologic survey map 2498, published in 1984 on a scale 1: 50,000.

### Table of Formations

#### Precambrian

##### Intrusives

- (1) Quartz veins, silicification
- (2) Quartz porphyry, quartz feldspar porphyry
- (3) Diorite
- (4) Gabbro

##### Keewatin

###### Sediments

- (5) Quartzite, argillite slates
- (6) Interflow bands of lean iron formation cherts, rhyolitic tuffs

###### Volcanics

- (7) Rhyolite, rhyolitic tuffs
- (8) Agglomerates and tuffs, dacite to rhyolite
- (9) Andesite to basalt, pillow lavas, massive, dioritized

### ROCK TYPES

#### Volcanics

##### Andesite

Basic andesitic to basaltic lavas form the main rock type of the western half of the property. The andesites most commonly occur as well pillowed structures in andesitic flows but there are variations to fine massive andesites and medium-grained dioritized masses of andesitic flows. In his report of

## Local Geology (cont.)

1939, Thomson stated that "part of the rock classified as diorite on the accompanying map is really the coarse grained central part of lava flows". In this writer's mapping, it was found that areas previously outlined as diorite by Thomson were commonly found to contain obvious pillow structures and the areas of dioritized andesite noted in this mapping were not found to occur as formations. The andesitic rocks occur in a formation with a width of over 1 mile and it contains several interflow bands of rhyolitic tuffs, iron formation, intrusive gabbro and quartz feldspar porphyry dykes.

### Agglomerate-Tuffs

Agglomerate and tuffs of dacite to rhyolite compositions occur as a formation about 4,000 feet wide, to the east of the formation of andesites. It is evident in numerous exposures mapped along the shores of Uchi Lake. Two related rock types occur throughout the formation. The most common is a relatively massive, light greenish-grey rock that, upon close examination, is seen to consist of a highly altered, carbonatized, slightly schistose rock that contains about 5% disseminated granules of black to brown calcitic mineral. This rock has the characteristics of an altered and cemented tuff. The other rock type consists of a rock with a similar altered cemented tuff matrix that contains up to 35% agglomeritic fragments of light to buff coloured rhyolitic fragments. These fragments are elongated parallel to the northerly trend of the formation and most commonly occur as small fragments up to walnut size, although some fragments of buff rhyolitic material were noted to reach the size of a football.

## Local Geology (cont.)

### Interflow Rhyolite and Rhyolitic Tuffs

Two bands of rhyolite were traced by mapping. One rhyolitic band of variable thickness (from 150 to 400 ft.) occurs between the two main formations; the andesitic flows and the agglomerate tuff. The rocks of this rhyolitic band are highly silicious, sericitic, fine grained and of light buff colour.

The other band of rhyolitic tuff occurs near the 68-00 West base line between andesitic flows. The rocks are silicious, sericitic, light buff coloured and may contain indistinct tuffaceous banding. These rocks have been traced for over a mile in length with widths of from 150 to 200 feet.

## Sediments

### Interflow Bands of Lean Iron Formation and Related Tuffs

Several narrow bands of iron formation were mapped as interflow beds within the volcanics. The exposures are usually found in low-lying outcrops so that tracing the narrow beds by mapping was not successful.

### Quartzite, Argillite, Slate

A formation of sediments occurs adjoining to the east of the formation of agglomerate-tuffs along the east shore of Uchi Lake. The sediments consist of a finely banded alternating series of fine quartzites, argillites and slates. The beds are highly contorted.

## Local Geology (cont.)

### Intrusives

#### Gabbro

One large intrusive mass of coarse gabbro to anorthosite occurs along the eastern shore of Uchi Lake off the map area. This appears to be an extensive basic intrusion along the sediments.

#### Diorite - Gabbro

Three intrusive bodies of dioritic to gabbroic rock occur as modified narrow sill-like bodies that follow the trend of formations. These rocks have a fresh looking equigranular texture, medium to coarse grained with about 50% mafics, largely hornblende with plagioclase and minor quartz.

#### Quartz Porphyry and Quartz Feldspar Porphyry Dykes

A dyke, up to 50 feet wide, occurs to the west of the property. It consists of a fine grained feldspathic matrix containing medium grained quartz "eyes". The porphyritic quartz may form up to 5% of the rock.

### Local Geology and Structures

In the mapped area, three major Precambrian formations of Keewatin age were traced. In the central portion a formation of agglomerate-tuffs about 4,000 feet wide is bound by andesitic flows at least a mile wide to the west and a formation of sediments to the east. These formations trend northerly and dip steeply eastward in the north half of the mapped area but the formations swing towards the southwesterly direction when traced southwards.

## Local Geology (cont.)

An area of intrusive activity occurs in the contact area between the formations of andesitic rocks and agglomerate-tuffs, where a band of rhyolitic tuffs occur bound by dioritic intrusions.

The rocks have been folded gently so that in the mapped area they strike northerly at the northern half and swing gently southwestwards when traced southwards. There is a general change in dip that suggests a steep sided synclinal basin with the axis running along and slightly east of the central trend of the agglomerate tuff formation. East of the agglomerates the rocks dip steeply westward and to the west of the agglomerates the rocks dip steeply eastward.

Numerous quartz veins were noted during mapping by this writer in 1968, over what is currently the St. Jude Resources property. These are in addition to the known gold-bearing structures traced by diamond drilling in the late 1930's.

## LOCAL STRUCTURAL GEOLOGY AND GOLD MINERALIZATION

Diamond drill hole Number 1 which was drilled to cross the Woco vein at a depth of 225 feet was extended to cross the projection of Uchi break at a depth of over 700 feet. This drill hole made the discovery of the "rich Woco vein" and provided valuable information on the stratigraphy of the Woco vein - Uchi break cross section. This hole did not cross and test the Uchi break itself due to the intrusion of a coarse gabbro that masks the projected Uchi break. (refer to section 1-North, scale 1" = 100 ft. along drill hole JR-93-1)

The Woco vein is located at a well identified Precambrian Stratographic horizon which consists of a narrow Dacitic lava flow on the West side and a Basalt pillowed lava on the East side. The Woco vein occurs at this interface between the volcanic members. The pillowed lava which is relatively incompetent compared to Dacite, was sheared when subjected to tectonic stresses when movements occurred at its contact with Dacite. The more competent Dacite member when subjected to the same stresses was fractured. The Woco quartz vein was emplaced along this sheared contact zone. The stresses that formed this sheared zone, when in their final stages of adjustment produced fine hairline fractures in the Woco vein parallel to its trend. The greater frequency of hairline fractures (with greenish chloritic stain) favoured the east side of the vein next to the sheared pillow lava East side.

It was during this period of hairline fracturing of the Woco vein that gold mineralization was introduced along the fractures and consistently resulted in higher gold concentrations on the East side.

The original Woco vein previously discovered in the 1930's was stripped at surface and exposed for sampling. The vein out cropping is 6" - 20 " wide and has spotty low gold values. This drilling program indicates that this narrow weakly mineralized vein extends downwards to a depth of about 170 feet where the Woco vein blossoms out into a rich gold bearing vein that averages about four feet thick. The crest of this rich and wider Woco vein plunges flatly northwards at about -5 degrees.

This "rich Woco Vein" has been tested by six drill holes in an area from the crest downwards for 100 feet and over a 200 foot length. The most northerly drill hole (No. 22) has the best intersection which averaged 1.832 ounces of gold per ton over a true width of 4.3 feet. This indicates the rich vein is still open northwards at this horizon. Drill hole No 12 intersected the Woco vein 300 feet below its crest and it is 50 feet North of drill hole No. 22. (Please refer to the Vertical Longitudinal section along the Woco vein.) This is an encouraging indication that the rich mineralization continues in depth.



The occurrence of this rich structure along a stratigraphic horizon presents an opportunity to extend exploration along the strike and dip of the horizon for the extension of not only the current Woco gold deposit but a potential for a repetition of other deposits along this horizon where conditions prove favourable.

About 550 feet to the East of the Woco vein is the projected extension of the Uchi break that parallels the Woco vein. The Uchi break occurs with a similar stratigraphic setup as the Woco. It has a Dacitic member on the West side and a Basalt member on the East side. It is now suspected that drill hole No 1 bent E-S-Eastwards and extended into the South fault block and was also masked by the coarse Gabbro intrusion. The Uchi break still presents a viable potential if tested in the same North fault block as the "rich Woco vein".

## FAULTING

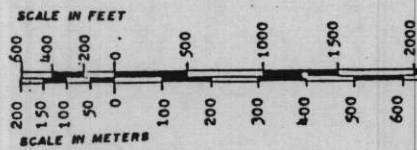
(Please refer to the plan of faulting 1" = 1/4 mile.)

Two parallel easterly trending faults have been located about 1/4 mile apart. The southerly fault occurs at the south end of the "rich Woco vein" and the northerly fault occurs at the North boundary of the property. The North block that includes the Woco vein and the Uchi break was uplifted vertically compared to the south block. It can be interpreted that this fault at the south of Woco vein may be the engine that produced the shearing stresses along the Woco vein and also provided a conduit for the movement of gold mineralization. If this concept is correct the (Uchi break) immediately North of the Southern fault has a high potential for rich gold mineralization.

The gold mineralization in the "rich Woco vein" increases in intensity towards its Eastern side. Visible gold was almost always noted in the core before assaying where richer results were returned. The visible gold is finely dispersed in a relatively homogeneous pattern with V.G. diameters being in the order of 0.1 to 0.5 millimetres. The check assay results of shorter samples produced equally close values. (Please refer to the drill log assay results from drill hole No. 22 which give a good example of the above statements.)



ST. JUDE RESOURCES LTD.  
 EARNGEY TWP, ONTARIO  
 PLAN OF FAULTING



REGISTERED PROFESSIONAL ENGINEER  
 C. J. KURLIOW  
 PROVINCE OF ONTARIO  
 OCT 4 1993

### FAULTING CONTINUED

Please refer to Cross Section 1+00 N (scale 1" = 50 Ft.) which includes drill holes 1,2,3,4,18, 19 also please refer to Plan of Faulting (scale 1" = 1/4 mile)

An examination of the cross section reveals that the Woco Vein and its Dacite flows form a curve that is concave Eastwards. The dip of the Woco Vein changes from - 70 degrees west at surface to 83 degrees East at a depth of 300 feet. This same curvature is not evident in the more northerly sections. This curvature of the formations and Woco vein near the Fault to the South indicates that the North blocks that contain the "rich Woco vein" was subjected to a counter clockwise torsional stress by movement of the south block, this is a form of fault drag. It is very likely that the torsional stresses on the North block formed the shearing along the dacite-pillow lava contact which left a dilated trend of tension that was filled by the Woco vein which was hairline fractured and mineralized with Gold.

The Fault, south of the Woco vein, trends Easterly to cross the " Uchi Break". The Corollary exists that similar torsional stresses were subjected upon the Uchi Break North of the Fault and that this could be a highly favourable exploration target.

SUMMARY RESULTS OF D. DRILLING

DRILL HOLE NO	FOOTAGES OF INTER - SECTION	AVERAGED ASSAY OUNCE AU PER TON	SAMPLED WIDTH OF VEIN IN FEET	CORRECTED VEIN WIDTH IN FEET	DEPTH OF INTER - SECTION	TOTAL DEPTH IN FEET OF DRILL HOLE
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LOWER "RICH WOCO VEIN" INTERSECTIONS

1	281.5-286.75	1.639	5.25	3.7	-225'	1336'
4	202.0-213.9	1.890	11.9	3.7	-190'	226'
11	339.2-343.1	0.650	5.4	3.0	-255'	336'
12	521.3-524.7	0.389	3.4	1.7	-485'	541'
13	722.75-727.0	0.030	4.25	2.1	-650'	816'
20	257.0-264.5	0.445	7.5	5.2	-190'	305'
21	289.8-294.4	0.400	4.6	3.1	-240'	306'
22	259.3-265.3	1.832	6.0	4.3	-200'	276'
23	Stopped short of vein? (Hole steepened)					346'

UPPER "WEAK WOCO VEIN" INTERSECTIONS

2	65.6-67.7	0.141	2.1	1.5	-45'	96'
3	99.25-101.8	0.044	2.55	1.5	-85'	166'
5	177.7-178.9	0.173	1.2	0.9	-60'	206'
6	93.0-94.8	0.057	1.8	1.1	-160'	96'
7	96.25-96.75	0.158	0.5	0.3	-60'	115'
8	147.9-149.5	0.146	1.6	1.0	-130'	186'
9	81.9-82.4	Trace	0.5	0.35	-60'	96'
10	178.0-180.2	0.482	2.2	1.0	-170'	201'
14	233.75-235.6	0.093	1.85	1.3	-155'	265'

SOUTH FAULT BLOCK

15	(Hole Bent Into S. Block)					376'
16						216'
17	240.8-241.5	0.004	0.7	0.4	-230'	306'
18	(Hole Bent Into S. Block)					396'
19	(Hole Bent Into S. Block)					436'
	415.8-416.9					

**NOTE:** For Drill Holes 1,4,11,20,21,22

The weighted averages for the six drill holes intersections near the crest of the "Rich Woco Vein" are

1.15 ounces Gold per ton (uncut) over an averaged width of 3.83 ft. This can also be averaged to

1.10 ounces Gold per ton (uncut) over an averaged width of 4.0 feet for 300 foot length of vein it indicates:

100 tons per vertical foot at 1.10 ounces Gold (uncut)

## CONCLUSIONS

The drilling to date has discovered a high grade gold deposit, with results currently indicating a grade in the order of one ounce gold per ton over an average mineable width of four feet. This is essentially a "blind" gold deposit which has its crest at about 175 ft. depth, with a northerly plunge of the crest at - 5 degrees. This "rich Woco vein" had been tested by six drill holes in an area 100 ft. below the crest and over a 200 ft. length. The most northerly hole (No. 22) has the best intersection which averaged 1.832 ounces of gold per ton over a true width of 4.3 feet. This indicates the vein is wide open northwards at this horizon. Drill hole (No. 12) intersected with Woco vein 300 ft. below the crest of the rich vein and it is 50 ft. North of drill hole No. 22. This is an encouraging indication that the rich mineralization continues to depth.

Any ore reserve calculation is premature at this time but it is reasonable to project dimensions to date of a length of 300 ft., an average thickness of four ft. and an average uncut grade of one ounce gold per ton. This translates into - a minimum of 100 tons per vertical foot of 1.10 ounces gold per ton grade (uncut).

### NOTE:

It must be kept in mind that the "rich Woco vein" mineralization is still open northwards which could materially increase this "tons per vertical foot" figure.

The Woco vein gold deposit is located at a well identified Precambrian stratigraphic horizon which consists of a narrow Dacitic lava flow on the West side and a Basalt pillowed Lava on the East side. The Woco vein occurs at this interface between the volcanic members. The pillowed lava which is relatively incompetent compared to Dacite, was sheared at its contact with Dacite, where as the more competent Dacite was fractured. The Woco quartz vein was emplaced along this sheared contact zone. The stresses that formed the main shearing were in their final stages of adjustment which resulted in fine hairline fractures parallel to the trend of the Woco vein with their locations favouring the sheared pillow lava side. It was during the period of hairline fracturing of the Woco vein that gold mineralization was introduced and as a result was more concentrated on its east side.

The occurrence of this rich structure along a stratigraphic horizon opens up extended potential expansion for exploration along strike and down dip. A vertical east-west trending fault disrupted the southward trend of the rich mineralization, in the area drilled to date.

Other potentially favourable sites for gold deposits occurs on the extension of the "Uchi break" onto the property. In the following recommended drilling program it is concluded that a



minimum of 10,000 feet of drilling is both necessary and warranted.

A drilling pattern to test the rich Woco vein from the 200 ft. to 400 ft. horizon in depth, northwards would consist of a grid at 50 ft. centers. Below the depth of 400 ft. a grid pattern of holes 100 ft. centers is required. Drilling to date indicates considerable difficulty in hitting targeted coordinates due to an unpredictable bending of the drill holes in both dip and bearing, with further experience, the bending patterns of drill holes can be utilized to hit predetermined targets. Instrument testing of the drill holes while in progress is essential. Results to date indicate this gold deposit is rich enough to become a mineable deposit. It is therefore imperative that all drill holes that intersect the Woco vein be cemented to eliminate future mining hazards of excessive ground water introduced from surface swamps through the drill holes.



October 8th, 1993

Chester J. Kuryliw, M.Sc. P.Eng.

RECOMMENDATIONS

COST ESTIMATES

- (1) CEMENTING - 12 drill holes from the 1993 program, the estimated cost includes transporting 75 bags of cement and pumping down the holes. \$ 4,500.00
- (2) DRILL HOLE TESTING for Bearing and Dips. 1993 program - 12 drill holes, 30 tests estimated cost of instrument rental, on site geologist and winch-driven cable. \$ 5,500.00

NEW STAGE DRILLING PROGRAM.

- (1) 10,000 feet of B.Q core drilling (this includes drilling on a 50 ft grid pattern northwards to a vertical depth of 400 ft on the Woco vein, and a grid pattern at 100 ft. centers on the Woco vein below 400 ft.)

Contract drilling includes directional testing and cementing, 10,000 ft. at \$18.00 per ft. \$180,000.00

Field Geologist	\$ 15,000.00
Transportation	\$ 5,000.00
Assaying	\$ 5,000.00
Drafting Plan, Sections etc, and Closing Report	\$ 10,000.00

Sub Total \$225,000.00

Allowances for contingencies \$ 25,000.00

Total \$250,000.00

October 8th, 1993

Chester J. Kuryliw, M.Sc., P.Eng.



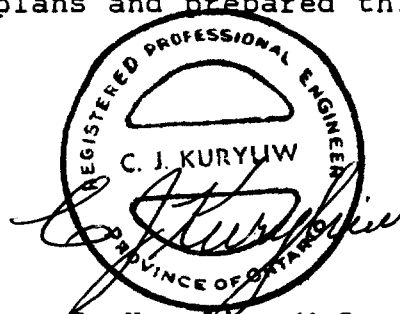
CHESTER J. KURYLIW, M.Sc., P.ENG.  
CONSULTING GEOLOGIST  
46 INGALL DR.  
DRYDEN, ONTARIO P8N 3B7

C E R T I F I C A T E

I, Chester J. Kuryliw of 46 Ingall Drive, Dryden, Ontario do hereby certify that:

- (1) I am a Professional Engineer and I am currently employed as a Consulting Geologist.
- (2) I am a graduate of:  
The University of Manitoba B.Sc. Degree, 1949  
the University of Manitoba M.Sc. Degree, 1966
- (3) I am a registered Engineer of the Association of Professional Engineers of Ontario and also Manitoba. I am a fellow of the Geologic Association of Canada, also a member of the Canadian Institute of Mining and Metallurgy.
- (4) I have practiced my profession for over 45 years, most of those years at gold mines, during which time I often planned, supervised and directed underground exploration, development and production.

My report is based upon my direction and supervision of the Drilling Programs on this property in 1993, I logged all core, drew sections and plans and prepared this report.



October 8th, 1993

Chester J. Kuryliw, M.Sc., P. Eng.

DIAMOND DRILL RECORD  
ST. JUDE RESOURCES LTD. EARNGY TWP. ONT.

HOLE NO. JR93-1 SHEET NO. 1

GEOLOGY

LATITUDE 2,056.59 N DATUM CLAIM 910547 (S.W.) STARTED MAR 6, 1993  
 DEPARTURE 1,974.6 E BEARING DUE EAST. COMPLETED MAR 18, 1993  
 ELEVATION 4,997.5 CORRE 200' 476' 606' 800' 1006' 1186' 1336'  
 DIT -55° -50° -45° -41° -38° -35° -33° ULTIMATE DEPTH 1,336.0'  
 -33'

DEPTH FEET	FORMATION
0-11.0	CASING - OVERBURDEN, MUSKOG, DETRITAL GRANITE SANDS
11.0-268.4	BASALT - SPHERULITIC PILLOW LAVA - LIGHT GREENISH, FINE GRAINED, SOME PORTIONS CARRY LIGHT COLORED SPHERULITIC PILLOW RUN OTHER PORTIONS CARRY DARK LATH-LIKE AGGREGATIONS OF AMPHIBOLE - BIRTITE THAT ARE PSEUDO-PHYCOCYTES (TAT MIN LOWER)
268.4-281.5	DACITE - LIGHT GREENISH, FINE GRAINED, SOME TUFFACEOUS SECTIONS, SLIGHTLY BLOCKY, SERICITIZED ALONG FRACTURES.
281.5-286.75	<u>WHITE QUARTZ VEIN - "WACO" VEIN</u> WHITE QUARTZ VEIN, FINE HAIRLINE FRACTURES OCCUR PARALLEL TO VEIN FOOTWALL. THESE HAIRLINE FRACTURES ARE STRAINED WITH COARSE GREEN CHLORITE AND ARE NEAR NUMEROUS NEARER THE VEIN FOOTWALL. FINE SCATTERED SPECKS OF V.G. OCCUR MORE CONCENTRATED NEAR THE VEIN FOOTWALL. SPECKS OF GALENA ARE MOST COMMON IN AREAS OF V.G. AT 283.0 a 1/4" FRACTURE OF MASSIVE PYRITE (MARCASITE) CAROL V.G. AND A TRACE OF CHALCOPYRITE, TRACE OF FUCHSITE.

BQ CORE SIZE

DRILLED BY KENNER SOIL & DRILLING  
 FIELD GEO - D. ALDERMAN.

*L. J. Kurellin*

SIGNED CHESTER J. KURELLIN, M.Sc., P. Eng.  
 CONSULTING GEOLOGIST

DIAMOND DRILL RECORD  
ST. JUDE RESOURCES LTD. EARNNGY. TWP. ONT.

GEOLOGY

HOLE NO. JR 93-1. SHEET NO. 2

LATITUDE \_\_\_\_\_ DATUM \_\_\_\_\_ STARTED \_\_\_\_\_  
 DEPARTURE \_\_\_\_\_ BEARING \_\_\_\_\_ COMPLETED \_\_\_\_\_  
 ELEVATION \_\_\_\_\_ DIP \_\_\_\_\_ ULTIMATE DEPTH \_\_\_\_\_

DEPTH FEET	FORMATION
286.75-440.5	BASALT - PILLOWED LAVA FINE GRAINED, DARK GREY AND GREEN, WITH PILLOW SELVAGES (RIMS) EVIDENT. THIS ROCK IS LESS FRACTURED AND SNEARED, THE FEW FRACTURES HAVE EPIDOTE-CARB-SERICITE ALTERATION. SOME PYRROPHILITE (1%) AND MINOR PYRITE OCCURS THROUGHOUT BUT ESPECIALLY ALONG PILLOW RIMS. THE FOOTWALL OF THE MFCO VEIN HAS SHEARED PILLOW LAVA FROM 286.75 - 290.0. 312.5-313.5 INTENSE SERICITIZATION 324.75-325.9 STRONG EPIDOTE-SERICITE ALTERATION, ALONG CARB 332.0-333.0 CARBONATE NODULES (1-2MM) (ON RICH REDDISH TONALITE 337.0-338.0 CONTACT CARB VENEILTS, STRONG EPIDOTE-SERICITE ALT 362.3-363.9 MAFIC DYKE, CONTACTS @ 45° TO CORE AXIS, MED GRAINED 435.3-440.5 ALTERATION ZONE, CONTACTS KEINLET AND BLEB STRONGLY FOLIATED @ 30° TO CORE AXIS
440.5-979.2	GABBRO - MED. GRAINED LIGHT-"EPIDOTIC"-GREENISH FLECKED WITH WHITEISH LEUCOXENES, GRADATIONAL CONTACT BECOMES FINER GRAINED TOWARDS 979.2 WHERE A SHARP CONTACT RIMS @ 30° TO CORE AXIS 901.0-903.0 GREY LAMP DYKE, CONTACTS @ 50° TO CORE AXIS.

SIGNED \_\_\_\_\_  
 CHESTER J. KORYAW, M.Sc., P. Eng.  
 CONSULTING GEOLOGIST

DRILLED BY \_\_\_\_\_

DIAMOND DRILL RECORD  
ST. JUDE RESOURCES LTD. EARNNGY. TWP. ONT.

GEOLOGY HOLE NO. SR-93-1 SHEET NO. 3

LATITUDE \_\_\_\_\_ DATUM \_\_\_\_\_ STARTED \_\_\_\_\_  
 DEPARTURE \_\_\_\_\_ BEARING \_\_\_\_\_ COMPLETED \_\_\_\_\_  
 ELEVATION \_\_\_\_\_ DIP \_\_\_\_\_ ULTIMATE DEPTH \_\_\_\_\_

DEPTH FEET	FORMATION
979.2-991.4	DACITE FINE GRAINED SILICIOUS GREY, WITH A FEW NARROW CHERTY BANDS (NOTE: THIS IS SIMILAR TO THE DACITE HANDING WITH ROCK OF THE WOOD VEIN AND MAY ALSO REPRESENT THE HANDING WITH ROCK OF THE UCHI BREAK.)
991.4-995.7	GABBRO - BASALT. A GREENISH MED-GRAINED HIGHLY ALTERED ROCK WITH PATCHES OF MINOR ATE-CARR, CARBONATE, BIOTITE, AMPHIBOLE,
995.7-1098.5	COARSE-GABBRO DYKE INTRUSION: THIS COARSE GRAINED GABBRO INTRUSION, IS EQUIGRANULAR, FRESH LOOKING, WITH APPROPRIATE CRYSTALS UP TO 1 CM DIAM., @ 995.7 THE CHILLED CONTACT IS AT 30° TO THE CORE AXIS AT 1098.5 THE GABBRO CONTACT IS CONFORMABLE WITH THE BANDER TUFF @ 60° TO THE CORE AXIS (THIS IS A WEDGE SHAPED INTRUSION WHOSE ORIENTATION CANNOT BE DETERMINED FROM THIS DRILL HOLE, BUT IT WAS HIT AT THE EXACT LOCATION OF THE PROTECTED HOLE BREAK. THE PRESENCE OF DACITE SUPPORTS THE EVIDENCE THAT THE DRILL HOLE HIT GABBRO AT THE CRITICAL LOCATION OF THE UCHI BREAK.)
1098.5-1157.5	TUFF - ANDESITIC TO DACITIC. GREYISH TO GREENISH WITH NARROW CHERTY BEDS. BEDDING OF VOLCANIC TUFFS IS AT 60° TO CORE AXIS.

SIGNED \_\_\_\_\_  
 CHESTER R. KUBICKI, M.Sc., P. Eng.  
 CONSULTING GEOLOGIST

DRILLED BY \_\_\_\_\_

DIAMOND DRILL RECORD  
ST. JUDE RESOURCES LTD. EARNGY TWP. ONT.

HOLE NO. JR 93-1 SHEET NO. 4

GEOLOGY

LATITUDE \_\_\_\_\_ DATUM \_\_\_\_\_ STARTED \_\_\_\_\_  
 DEPARTURE \_\_\_\_\_ BEARING \_\_\_\_\_ COMPLETED \_\_\_\_\_  
 ELEVATION \_\_\_\_\_ DIP \_\_\_\_\_ ULTIMATE DEPTH \_\_\_\_\_

DEPTH FEET	FORMATION	FORMATION
1157.5-1160.6	AGGLOMERATE - ANDESITIC, ROUNDED GREENISH-GREY CLASTS UP TO 2 CM DIAMETER.	
1160.6-1183.9	AGGLOMERATE - TUFF, ANDESITIC, GREENISH-GREY A FEW FINELY BEDDED SECTIONS @ 65° TO CORE AXIS.	
1183.9-1188.2	CHEERTY TUFF - STRONGLY BANDED @ 65° TO C/A. 1-2% PYX.	
1188.2-1218.1	TUFF - LARGELY ANDESITIC, BEDDING @ 62° TO CORE-AXIS @ 1215-1218 THE TUFF IS DARK GREYISH AND MAY CONTAIN CARBONACEOUS MATERIAL, 3% PO, 1% PY.	
1218.1-1224.5	TUFF - RHYOLITE TO DACITE - STRONGLY BANDED AND ALSO SHEARED ALONG BANDING (BEDDING) ABOUT 1 CM BEDS OF RHYOLITE-SERICITE THAT IS BUFF COLORED INTERLAYERED WITH GREYISH ANDESITIC BEDS. BEDDING @ 65° TO CORE AXIS. (TRUE DIP 82°-W-?)	
1224.5-1230.2	TUFF - ANDESITIC; GREYISH - FINELY BANDED @ 65° TO C/A.	
1230.2-1243.3	TUFF - RHYOLITE TO DACITE, STRONGLY SERICITIZED @ (230.2 - 1234.2) STRONGLY SHEARED AND MINERALIZED. 3-8% PO, 1-3% PY, RARE CHALCO.	

DRILLED BY \_\_\_\_\_  
 SIGNED \_\_\_\_\_  
 CHESTER F. KILPATRICK, M.Sc., P. Eng.  
 CONSULTING GEOLOGIST

DIAMOND DRILL RECORD  
ST. JUDE RESOURCES LTD. EARNNGY TWP. ONT.

GEOLOGY HOLE NO. JR 93-1 SHEET NO. 5

LATITUDE \_\_\_\_\_ DATUM \_\_\_\_\_ STARTED \_\_\_\_\_  
 DEPARTURE \_\_\_\_\_ BEARING \_\_\_\_\_ COMPLETED \_\_\_\_\_  
 ELEVATION \_\_\_\_\_ DIP \_\_\_\_\_ ULTIMATE DEPTH \_\_\_\_\_

DEPTH FEET	FORMATION	FORMATION
1243.3-1248.0	TUFF - ANDESITIC WITH INTERBEDDED FINE CARBONACEOUS BLACK SEDIMENT 2-5% PYROCLASTIC. NOTE THIS BLACK SEDIMENT HORIZON IS A GOOD MARKER, BUT NOT SUFFICIENTLY RICH IN CARBON TO BE PICKED UP AS A SIGNIFICANT ELECTROMAGNETIC CONDUCTOR.	
1248.0 - 1325.0	BEDDING @ 60° TO CORE AXIS. AGGLOMERATE - ANDESITIC, GREYISH SECTIONS HAVE EASILY RECOGNIZABLE BOUNDED FRAGMENTS.	
1325-1336.0	BASALT - MASSIVE FLOW - (PR. UNBANDER, BASIC TUFF), DARK GREENISH FINE GRANULAR.	
	1336.0 END OF HOLE	
	69 BOXES STORED IN RACKS AT UCH1 DRILL SITE.	

SIGNED \_\_\_\_\_  
 CHESTER J. KUKYLIV, M.Sc., P. ENG.  
 CONSULTING GEOLOGIST

DRILLED BY \_\_\_\_\_



DIAMOND DRILL RECORD  
ST. JUDE RESOURCES LTD. EARNNGY TWR. ONT.  
SAMPLING

HOLE NO JR93-1 SHEET NO. 1

LATITUDE \_\_\_\_\_ DATUM \_\_\_\_\_ STARTED \_\_\_\_\_  
 DEPARTURE \_\_\_\_\_ BEARING \_\_\_\_\_ COMPLETED \_\_\_\_\_  
 ELEVATION \_\_\_\_\_ DIP \_\_\_\_\_ ULTIMATE DEPTH \_\_\_\_\_

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	WGS. AN.
	STRONGLY ALTERED ANDESITE, WITH LARGE BIOTITE FLECKS, PARTLY SINCIFIED.	14901	186.0	189.25	3.25	NIL
	ANDESITE, INTENSELY SINCIFIED, MINOR SERICITE	14902	189.25	192.6	3.35	T
	QUARTZ VEIN, WHITE, MINOR CALCITE, Tr. Pyrite.	14903	192.6	194.5	1.90	NIL
	BRECCIA, 60% QUARTZ, AS SINCIFICATION, IN ANDESITE.	14904	194.5	197.5	3.00	0.002
	BRECCIA 40% QUARTZ, AS ABOVE.	14905	197.5	199.5	2.00	T
	BRECCIA 10% QUARTZ, AS ABOVE	14906	199.5	201.5	2.00	T
	ANDESITE, STRONGLY SERICITIZED, BIZ. STES, Tr. Pyrite	14907	201.5	203.5	2.00	T
	ANDESITE, SIL'D, 15% SERICITIZED IN SECTIONS	14908	203.5	205.8	2.30	T
	ANDESITE, SIL'D, 20%	14909	205.8	208.0	2.20	T
	ANDESITE, SIL'D, 10%	14910	208.0	210.0	2.00	0.002
	ANDESITE, SIL'D WITH BIOTITE FLECKS	14911	210.0	213.0	3.00	0.003

DRILLED BY \_\_\_\_\_  
 SIGNED *[Signature]*  
 CHESTER J. KURYLIW, M.Sc., P. Eng.  
 CONSULTING GEOMINIST

DIAMOND DRILL RECORD  
 ST. JUDE RESOURCES LTD. EARNY TWP. ONT.  
 SAMPLING

HOLE NO. JR-93-1 SHEET NO. 2

LATITUDE \_\_\_\_\_ DATUM \_\_\_\_\_ STARTED \_\_\_\_\_  
 DEPARTURE \_\_\_\_\_ BEARING \_\_\_\_\_ COMPLETED \_\_\_\_\_  
 ELEVATION \_\_\_\_\_ DIP \_\_\_\_\_ ULTIMATE DEPTH \_\_\_\_\_

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	WZA IN	O/S AG.
	PACITE, ALTERED, SERICITIZED STRINGERS.	14912	266.7	268.4	1.70	Tr	
	PACITE, SILICIFIED AND FOLIATED.	14913	276.25	281.50	3.25	0-06S	
WOCO. VEIN-281.5	WHITE QUARTZ VEIN, HAIR LINE FRACTURES IN VEIN, PARALLEL TO FOOTWALL, PEPPERED WITH FINE V.G. FRACTURE	14914	281.50	284.0	2.50	2.914	V.G. L.639 S.23
-286.75 (5'25)	WHITE QUARTZ VEIN HAIR LINE FRACTURES IN VEIN, PEPPERED WITH FINE V.G. NEAR FRACTURES, ALSO GALENA SPECKS PYRITE + GALENA TRACE. A 1/4" STRIP OF MARCASITE	14915	284.0	286.75	2.75	1.137	V.G.
	ANDESITE, SILICIFIED, PARTLY SHEARED	14916	286.75	289.75	3.00	0-037	
	QUARTZ VEIN, GLASSY, CHLORITE AT MARGINS.	14917	77.5	77.9	0.4	Tr	
	ANDESITE, WITH IRREGULAR QUARTZ STRINGERS (12')	14918	435.3	438.1	2.8	Tr	
	ANDESITE, SILD, IRREGULAR ATZ. STRINGERS (40')	14919	439.5	440.25	0.75	0-003	
	QUARTZ VEIN, GLASSY, CHLORITE AT MARGINS.	14920	533.2	534.0	0.80	0-007	
	QUARTZ VEIN, WHITE, BARREN	14921	705.5	705.8	0.30	0-006	
	QUARTZ VEIN, WHITE, BARREN	14922	738.0	738.75	0.75	Tr	

DRILLED BY \_\_\_\_\_  
 CHESTER J. KURLIOW, M.Sc., P. Eng.  
 CONSULTING GEOPHYSICIST  
 T.J. Kurliw

DIAMOND DRILL RECORD  
ST. JUDE RESOURCES LTD. EARNGY TWP. ONT.  
SAMPLING

HOLE NO. JR 93-1 SHEET NO. 3

LATITUDE \_\_\_\_\_ DATUM \_\_\_\_\_ STARTED \_\_\_\_\_  
 DEPARTURE \_\_\_\_\_ BEARING \_\_\_\_\_ COMPLETED \_\_\_\_\_  
 ELEVATION \_\_\_\_\_ DIP \_\_\_\_\_ ULTIMATE DEPTH \_\_\_\_\_

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	WGS. AN.
	QUARTZ VEIN, TOURMALINE, TRACE CHALCO, + PYRITE	14923	7593	7602	0.90	T
	ANDESITE, SLIGHTLY SIL'D + SERICITIZED 5% P, FORM	14924	8205	8230	2.5	T
	ANDESITE, " " 3% P	14925	8230	8260	3.00	T
	ANDESITE, " " 3% P	14926	8260	8290	3.0	T
	ANDESITE, " " 3% P	14927	8290	8317	2.7	T
	QUARTZ VEIN, WHITE, MINOR CHARACTERISTICS	14928	8860	8865	0.5	T
	SERICITIZED, 4" WHITE QTZ. VENEZ.	14929	9815	9827	1.2	T
	FRACTURED, MINOR QTZ. STRANGERS CARB/BUT/CHALC	14930	9904	9914	1.0	T
	STRONGLY SERICITIZED. TUFFS	14931	123025	123325	3.0	T
	TUFFS, QUARTZ-CHALCITE-SERICITE, 3% P	14932	123325	12360	2.75	T

DRILLED BY \_\_\_\_\_  
 SIGNED *C. Kurylow*  
 CHESTER J. KURYLOW, M.Sc., P. Eng.  
 CONSULTING GEOMETRIST



DIAMOND DRILL RECORD  
ST. JUDE RESOURCES LTD. EARNNGY TWP. ONT.

HOLE NO. JR-93-2 SHEET NO. 1

GEOLOGY

LATITUDE 2, 079.53 N DATUM CLAIM 910547 (S.W) STARTED MAR. 10, 1993  
 DEPARTURE 2, 112.6 E BEARING DUE EAST COMPLETED MAR 19, 1993  
 ELEVATION 5, 003.3 DIP -45° ULTIMATE DEPTH 96.0

DEPTH FEET	FORMATION
0-11.0	CASING, IN OVERBURDEN, MUSKEG, GRAVEL & Boulders
11.0-43.5	BASALT - SPHERULITIC PILLOW LAIR. LIGHT GREY-GREEN, FINE TO MED. GRAINED, LATH-LIKE FLECKS OF AMPHIBOLE-BIDTITE, A FEW LIGHT COLORED SPHERULITIC PILLOW RIMS.
43.5-65.6	DACITE - FINE GRAINED, GREYISH, FRACTURED WITH SOME QTZ-STR. FILLED FRACTURES, MORE INTENSELY FRACTURED FROM 60.6-65.6 (NEAR TO Q. VEIN) WITH 10% QTZ-STRS.
65.6-67.7	QUARTZ VEIN, WHITE "WIDCO" VEIN SHARP CONTACTS @ 55° TO CORE AXIS, BIOTITE AND CALCITE WITH MINOR CARBONATE AT CONTACTS TRACE PYRITE, RARE GALENA. (No. V.G.)
67.7-96.0	BASALT - PILLOWED FLOWS, FINE GRAINED, GREENISH, MINOR PYROXENE FROM 67.7-72.0 STRONG FOLIATION (SHEARING) @ 50° TO CORE AXIS NEAR PARALLEL TO FOOTWALL OF WIDCO VEIN, DECREASES TO 40° TO CORE AXIS FURTHER DOWN THE HOLE.
96.0	END OF HOLE, CORE STORED IN RACKS AT DRILL SITE.

B.Q. CORE SIZE  
 DRILLED BY KENDRA SOUL & DRILLING.  
 FIELD GEOL - D. ALDERMAN.

SIGNED *C. J. W. Sullivan*  
 CHESTER J. W. SULLIVAN, M.Sc., P. Eng.  
 CONSULTING GEOLOGIST



DIAMOND DRILL RECORD  
ST. JUDE RESOURCES LTD. EARNGY TWP. ONT.

IN. FEET      HOLE NO. JR. 93.3 SHEET NO. 1

LATITUDE 2, 079.53 N      DATUM CLAIM 910547 (S-W)      STARTED MAR 19, 1993


DEPARTURE 2, 116.17 E      BEARING DUE EAST      COMPLETED MAR 20, 1993

ELEVATION 5,003.3      DIP -65°      ULTIMATE DEPTH 166'

GEOLOGY

DEPTH FEET	FORMATION
0-6.0	CASING, IN OVERBURDEN. MUCKER, DETRITUS,
6.0-90.5	BASALT.- SPHERULITIC PILLOW LAVA. FINE TO MED. GRAINED, LIGHT GREY GREEN, WITH LAINLAKE FLECKS OF AMPHIBOLE-RICHITE A FEW SPHERULITIC, LIGHTER COLORED PILLOW RIMS. (16-17) YELLOW GREEN, CARBONATE-SERICITE-EPIDOTE ALTERED (70.6-71.25) YELLOW GREY, CARBONATE-SERICITIZED ALTERED
90.5-99.25	DACITE LIGHT TO DARK GREY. STRONGLY FRACTURED NEAR HANGING-WALL OF WACO VEIN.
99.5-101.8	"WACO" WHITE QUARTZ VEIN SHARP CONTACTS @ 40° TO CORE AXIS, SOME IRON STAINING OF FRACTURES IN QUARTZ, TRACES PYRITE AND GALENA.
101.8-166.0	BASALT- PILLOWED LAVA. FINE GRAINED, GREENISH, WITH BIOTITE-RICH PILLOW SELVAGES, SOME RANDOM CONTACTED QTZ-CARB STAS. (@ 101.8-106.0) THE BASALT IS STRONGLY FOLIATED NEXT TO FOOTWALL OF WACO VEIN. MINOR PYRITE Y PO. 1660 END OF HOLE.

BQ CORE SIZE  
DRIILLED BY KENDRA SOIL & DRILLING  
FIELD GEOLOGIST. DAWE ALDERMAN

  
 CHESTER J. KORYLKO, M.Sc., P. Eng.  
 CONSULTING GEOLOGIST







DIAMOND DRILL RECORD  
ST. JUDE RESOURCES LTD. EARNGY TWP. ONT.

GEOLOGY

HOLE NO. NR-93-4 SHEET NO. 2

LATITUDE \_\_\_\_\_ DATUM \_\_\_\_\_ STARTED \_\_\_\_\_  
 DEPARTURE \_\_\_\_\_ BEARING \_\_\_\_\_ COMPLETED \_\_\_\_\_  
 ELEVATION \_\_\_\_\_ DIP \_\_\_\_\_ ULTIMATE DEPTH 226.0

DEPTH FEET	FORMATION
<u>208.0-213.9</u>	<u>WHITE QUARTZ VEIN - "WOOD" VEIN</u> <u>UPPER AND LOWER CONTACTS ARE AT 20° TO CORE AXIS. V6</u> <u>OCCURS THROUGHOUT THE VEIN AS FINE V6. IT IS SPARSE NEAR THE</u> <u>HANGING WALL BUT V6 IS HEAVILY PEPPERED WITH FINE V6. TOWARDS</u> <u>THE FOOTWALL WHERE HAIRLINE FRACTURES BECOME NUMEROUS AND</u> <u>PARALLEL TO THE FOOTWALL, THE HAIRLINE FRACTURES ARE STAINED</u> <u>WITH GREEN GREEN (CHLORITE?) SPECKS OF GREEN ARE ASSOCIATED</u> <u>WITH AREAS OF V6 IN Q12.</u>
<u>213.9-226.0</u>	<u>BASALT. - PULVERED FLOW. GREENISH, FINE GRAINED,</u> <u>FROM 213.9-225.0 THE BASALT IS STRONGLY FOLIATED</u> <u>NEXT TO THE FOOTWALL OF THE WOOD VEIN.</u>
<u>226.0</u>	<u>END OF HOLE.</u>
	<u>CORE STOPPED IN RACKS AT DRILL SITE.</u>

SIGNED \_\_\_\_\_  
 CHESTER J. KERRY, M.Sc., F. Eng.  
 CONSULTING GEOLOGIST

DIAMOND DRILL RECORD  
ST. JUDE RESOURCES LTD. EARNNGY TWP. ONT.  
SAMPLING

HOLE NO. JR. 934 SHEET NO. 1

LATITUDE \_\_\_\_\_ DATUM \_\_\_\_\_ STARTED \_\_\_\_\_  
 DEPARTURE \_\_\_\_\_ BEARING \_\_\_\_\_ COMPLETED \_\_\_\_\_  
 ELEVATION \_\_\_\_\_ DIP \_\_\_\_\_ ULTIMATE DEPTH \_\_\_\_\_

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	WGS. AN	OZS. AG
		14994	1990	2020	3.0	0.003	
WOOD VEIN.	DACITE, MINOR QTZ. STRS, TRACES Py.						
	WHITE QUARTZ A SPECK OF V.G. MINOR Py.	14945	2020	2050	3.0	0.071	0.012
	WHITE QUARTZ SEVERAL FINE SPECKS V.G. MINOR Py. TRACES OF CHALCO AND GALENA	14946	2050	2080	3.0	0.286	
					CHECK	0.274	0.027
					AVER.	0.280	
	WHITE QUARTZ SEVERAL FINE SPECKS V.G. MINOR Py. TRACES OF GALENA.	14947	2080	2110	3.0	0.332	
					CHECK	0.336	0.055
					AVER.	0.334	
	WHITE QUARTZ SEVERAL HARDLINE FRACTURES BROKEN TO FORTWALL. SEVERAL DOZEN FINE SPECKS OF V.G. SPECKS GALENA, CHALCO, PYRITE.	14948	2110	2139	2.9	7.070	0.050
					CHECK	6.348	
					AVER.	6.709	
	BASALT, SPHEROIDS, SILICIFIED IN PART.	14949	2139	2170	3.1	0.008	

SIGNED \_\_\_\_\_  
 CHESTER J. KUNZLIW, M.Sc., F. Eng.  
 CONSULTING GEMMOLOGIST


DRILED BY \_\_\_\_\_

DIAMOND DRILL RECORD  
ST. JUDE RESOURCES LTD. EARNNGY. TWP. ONT.

IN FEET. HOLE NO. JR. 935 SHEET NO. 1  
 LATITUDE 2, 130.54-N DATUM CLAIM 910547 (S.W) STARTED MAR 21, 1993  
 DEPARTURE 2, 115.7-E BEARING DUE EAST COMPLETED MAR 22, 1993  
 ELEVATION 5, 007.2 DIP -70° ULTIMATE DEPTH 206.0

DEPTH FEET	FORMATION
0-3.0	CASING - OVERBURDEN, MUCK, GRAVEL, BOULDERS
3.0-26.0	BASALT - SPHERULITIC PILLOW LAVA. GREY-GREEN, FINE TO MED GRAINED, 1-7 MM FLECKS AND LATHS OF AMPHIBOLE-BIOTITE ZONE SERICITIC SHEARING FROM 11-26'
26.0-57.8	BASALT - MASSIVE FLOW (INTERFLOW GABARASHI?) DARK GREY-GREEN MED. GRAINED (0.5 MM) LOWER CONTACT SHARP, UPPER CONTACT IS GRADATIONAL.
57.8-108.9	BASALT - SPHERULITIC PILLOW LAVA. (AS ABOVE) FLECKS, ETC
108.9-152.4	DACITE - LIGHT GREY TO DARK GREY, FINE GRAINED, SAME SANDING? PT. 20' TO CORE AXIS (44.0-144.5 WAXY, SERICITIC, "FAULT?")
152.4-166.6	BASALT - SPHERULITIC PILLOW LAVA (AS ABOVE) FLECKS, ETC
166.6-177.7	DACITE - AS ABOVE (148.9-152.4) BUT SHEARED SUB PARALLEL TO CORE AXIS

B.A. CORE SIZE  
 DRILLED BY XENORA SOIL & DRILLING.  
 FIELD GEOL. D. ALDERMAN

  
 CHESTER J. KYNELL, M.Sc., P. Eng.  
 CONSULTING GEOLOGIST





DIAMOND DRILL RECORD  
ST. JUDE RESOURCES LTD. EARNNGY TWP. ONT.

IN FEET GEOLOGY HOLE NO. JR 93-6 SHEET NO. 1

LATITUDE 2, 131.36 - N DATUM CLERM 910547 (S.W) STARTED MAR 22, 1993  
 DEPARTURE 2, 113.1 - E BEARING DUE EAST COMPLETED MAR 22, 1993  
 ELEVATION 5, 007.2 DIP -45° ULTIMATE DEPTH 96'0

DEPTH FEET	FORMATION
0-4.0	CASING - OVERBURDEN
4.0-20.7	BASALT - LIGHT GREY GREEN, PARTLY SERICITIZED, FRACTURED.
20.7-23.5	BASALT - SPHERULITIC PILLOW LAVA.
23.5-25.0	DACITE [ LIGHT GREY GREEN, WITH LATE PNEUMATIST AS AMPHIB - BIRITE
25.9-26.9	BASALT SPHERULITIC PILLOW LAVA, AS ABOVE, LATHY, ETC
26.9-31.8	DACITE LIGHT GREY, PARTLY BANDED @ 50' TO CORE AXIS.
31.8-36.7	BASALT SPHERULITIC PILLOW LAVA (AS ABOVE)
36.7-38.0	DACITE AS ABOVE
38.0-50.6	BASALT SPHERULITIC PILLOW LAVA (AS ABOVE)
50.6-80.5	DACITE AS ABOVE
80.5-88.5	BASALT SPHERULITIC PILLOW LAVA (AS ABOVE)
88.5-93.0	DACITE STRONGLY SHEARED @ 50' TO CORE AXIS NEAR MIDCO VEIN.
93.0-94.8	<u>WHITE QUARTZ VEIN "WDCO" VEIN</u> WHITE QUARTZ WITH MARLINE GREEN. FRACTURES NEAR PARALLEL TO FOOTWALL OF VEIN.
94.8-96.0	BASALT, STRONGLY SHEARED AND FOLIATED PARALLEL TO FOOTWALL OF VEIN. 96.0 END OF HOLE, CORE STORED IN RACKS AT DRILL SITE.

B.G. CORE SIZE.  
 DRILLED BY KENNER SAIL & DRILLING  
 FIELD GEOL. D. ALDERMAN.  
 SIGNED C. J. Kurylko  
 CHESTER J. KURYLO, M.Sc., P. Eng.  
 CONSULTING GEOLOGIST



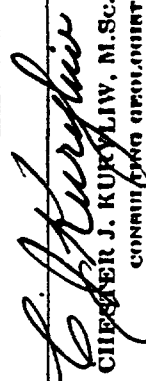


DIAMOND DRILL RECORD  
ST. JUDE RESOURCES LTD. EARNNGY. TWP. ONT.

IN. FEET. GEOLOGY HOLE NO. J.R. 93-7 SHEET NO. 1  
 LATITUDE 2, 181.77 - N DATUM CLAIM 910547 (S-W) STARTED MAR. 23, 1993  
 DEPARTURE 2, 133.1 - E BEARING DUE EAST COMPLETED MAR. 23, 1993  
 ELEVATION 5, 005.0 DIP -45° ULTIMATE DEPTH 115.0

DEPTH FEET	FORMATION
0-6.0	CASING - OVERBURDEN.
6.0-55.6	BASALT - SPHERULITIC PILLOW LAVA. LIGHT GREY-GREEN, LATH LIKE XENOLITHS OF AMPHIBOLE - BIOTITE, SOME SERICITIZATION.
55.6-96.25	DACITE LIGHT TO DARK GREY, FINE GRAINED, FOLIATION IS PARTLY DEVELOPED @ 50° TO CORE AXIS, MINOR SERICITIC ALTH ALONG FRACTURES.
96.25-96.75	WHITE QUARTZ VEIN "1000" VEIN 85% QUARTZ BLENDS AND STRC TRACES PYRITE AND CHALCOPYRITE.
96.75-115.0	BASALT - PILLOWED, LAVA FLOWS, FINE GRAINED, MILDLY SHEARED  115.0 END OF HOLE CORE STORED IN RACKS AT DRILL SITE.

B.Q. CORE SIZE  
 DRILLED BY KENDRA SOL & DRILLING.  
 FIELD GEOL - D. ALPERMAN

  
 SIGNED CHESTER J. KURYLOW, M.Sc., P.Eng.  
 CONSULTING GEOLOGIST




DIAMOND DRILL RECORD  
ST. JUDE RESOURCES LTD. EARNNGY. TWP. ONT.

IN FEET. HOLE NO. JR-93-B SHEET NO. 1  
 LATITUDE 2, 181.77 - N DATUM CLAIM 910547 (S-W) STARTED MAR 23, 1993  
 DEPARTURE 2, 130.8 - E BEARING DUE EAST COMPLETED MAR 24, 1993  
 ELEVATION 5,005.0 DIP -70° ULTIMATE DEPTH 186.0

DEPTH FEET	FORMATION
0-60	CASING - IN OVER BURDEN.
60-74.0	BASALT - SPHERULITIC PILLOW LAVA - LIGHT GREY - GREEN, FINE GRAINED 1-15 MM LENGTH SUB ROUNDED LATHS OF AMPHIBOLE - BIODITE @ 10.75 - 11.0 FTZ BECCIA @ 22-23.3 VARY SERICITIC @ 15° TO CORE AXIS
74.0-147.9	DACITE - LIGHT TO DARK GREY, FINE GRAINED, MINOR FOLIATION IN BANDS @ 20° TO CORE AXIS.
147.9-149.5	WHITE QUARTZ VEIN "WOCO" VEIN WHITE QUARTZ WITH MINOR CHLORITE AND PYRITE MINOR FRACTURING WITH GREEN CHLORITE STAIN.
149.5-186.0	BASALT, DARK GREY GREEN, FINE GRAINED, TRACES OF PYROMORPHITE ALONG PILLOW SEAMING, @ 149.5-152.5 STRONGLY SHEARED BASALT PARALLEL TO FOOTWALL OF WOCO VEIN.
	186.0 END OF HOLE (CORE STORED IN RACKS AT DRILL SITE)

B.O. CORE SIZE  
 DRILLED BY KENAGA SOIL & DRILLING  
 FIELD GEOL. D. ALDRICHMAN.

  
 CHESTER J. KYNLIW, M.Sc., P. Eng.  
 CONSULTING GEOLOGIST



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1 IN FEET. GEOLOGY HOLE NO. J.R. 93.9 SHEET NO. 1

LATITUDE 2, 228.03 - N DATUM CHAM 910547 (S.W) STARTED MAR 24, 1993  
 DEPARTURE 2, 154.6 - E BEARING DUE EAST COMPLETED MAR 25, 1993  
 ELEVATION 5, 001.5 DIP -45° ULTIMATE DEPTH 96.0

DEPTH FEET	FORMATION	FORMATION
0-12.0	CASING - OVERBURDEN, (MUCKS, GRAVEL, Boulders.)	
12.0-30.6	SPHERULITE PILLOW LAVA. (BASALT) LIGHT GREEN GREY, FINE GRAINED, (1-15 mm) SIZED SUB-ROUNDED LATHS OF AMPHIBOLE-BYOTITE KENALITHS. RTI-CARB - EPIRITE - SERICITE ALTERATION IN PARTS.	
30.6-81.8	DACITE - LIGHT TO DARK GREY. FINE GRAINED WEAK FOLIATION @ 49.5-50.5 STRONG SERICITE ALTERATION.	
81.8-82.4	<u>WHITE QUARTZ VEIN - WOOD VEIN, SHEARED MARGINS @ 60°</u> TO CORE AXIS, RARE PYRITE AND CHALCOPRITE ALONG FRACTURES	
82.4-96.0	<u>BASALT - PILLOWED LAVA. GREEN, FINE GRAINED, SHEARED NEXT</u> <u>TO FOOTWALL OF WOOD VEIN.</u>	
	96.0 - END OF HOLE	
	( CORE STORED IN RACKS AT DRILL SITE )	

DRILLED BY KENORA SOIL & DRILLING  
FIELD GEOL - D. ALDERMAN.

SIGNED C. J. Koryliw  
CHESTER J. KORYLIW, M.Sc., P. Eng.  
CONSULTING GEOLOGIST



DIAMOND DRILL RECORD  
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IN FEET GEOLOGY HOLE NO. JR. 93-10 SHEET NO. 1

LATITUDE 22° 03' - N DATUM CLAIM 910547 (SW) STARTED MAR 25, 1993  
 DEPARTURE 2, 151.4 - E BEARING DUE EAST COMPLETED MAR 26, 1993  
 ELEVATION 5,001.5 DIP -70° ULTIMATE DEPTH 201.0

DEPTH FEET	FORMATION
0-8.0	CASING, IN OVER BURDEN, MUSKEE & BOLLERS
8.0-57.9	BASALT - SPHERULITIC - PILLOW LAVA LIGHT GREY-GREEN, FINE GRAINED, (1-12 mm) LATH LIKE PHENOCRYST, MINOR - CARB - EPIDOTE - SERICITE ALT'N IN PARTS.
57.9-116.0	DACITE - LIGHT GREY, FINE GRAINED, FOLIATION BANDING @ 35° TO CORE AXIS STRONG SERICITIZATION ALONG THE FEW FRACTURES
116.0-125.0	BASALT - SPHERULITIC PILLOW LAVA. (AS ABOVE)
125.0-175.4	DACITE - LIGHT GREY, FINE GRAINED, FOLIATION @ 30° TO CORE AXIS.
175.4-180.0	"WOOD BREAK" - SHEARED BASALT @ 33° TO CORE AXIS, 35% QUARTZ 30% CHLORITE BANDED, IRREGULAR. TRACES SPATE, CHALCO, PO.
180.0-201.0	BASALT. PILLOW LAVA GREEN, FINE GRAINED, STRONGER SHEARINGS FROM 180.0-192.0.
	201.0, END OF HOLE (CORE STORED IN RACKS AT DRILL SITE)

B.G. CORE SIZE  
 DRILLED BY KENARA SOL & DRILLING  
 FIELD GEOL - D. ALDERMAN

*C. J. Kuryliw*

SIGNED CHESTER J. KURYLIW, M.Sc., P. Eng.  
 CONSULTING GEOLOGIST





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HOLE NO. JR 93-11 SHEET NO. 1

GEOLOGY

IN FEET.

LATITUDE 2, 149.61 - N      DATUM CLRM 910547 (SW)  
 DEPARTURE 2, 005.1 - E      BEARING DUE EAST  
 ELEVATION 4, 995.5      DIP COARSE -64°, 200'e -58°  
 STARTED MAR 26 1993  
 COMPLETED MAR 28 1993  
 ULTIMATE DEPTH 366.0

DEPTH FEET	FORMATION
0.4.0	CASING - OVERBURDEN, MAKEG.
4.0 - 193.0	BASALT, MASSIVE-FLOW (OR GARRED SW?) DARK GREY-GREEN A FINER MEDIO GRAN BUT ROCK IS FOLIATED NOT SEMICRANULAR-HALOCRYSTALLINE A FEW FINE FLECKS OF WHITE KELYDENE?
42.7 - 430	WHITE QTZ VEINLET.
67.5 - 67.9	149-15.0, 17.0 - 177.1 ALL GREY QUARTZ, SERICITIZED MARBLES.
193.0 - 273.0	BASALT - SPHERULIC PILLON LAVA. LIGHT GREY GREEN, WITH A FEW WHITE SPHERULE PILLON RINGS, 1-15 MM SIZE, LATH LIKE PHENOCRYT LIKE AGGREGATES OF ANORTHITE - SPITITE.
273.0 - 288.9	DACITE - LIGHT GREY, FINE GRAINED, SERICITIC ALTERATION IN PARTS
288.9 - 294.0	BASALT, SPHERULIC PILLON LAVA (AS ABOVE)
294.0 - 337.7	DACITE FINE GRAINED, LIGHT TO DARK GREY, OCCASIONAL BUFF SERICITIC ZONE 334.0 - 337.7 SHEARED + FRACTURED DACITE AT HANGING WALL OF WOOD VEIN.

B.Q. CORE SIZE

DRILLED BY KENORA SOIL + DRILLING.  
 FIELD GEOL - D. ALDERMAN

*C. A. Kurylow*

SIGNED CHESTER J. KURYLJW, M.Sc., P. Eng.  
 CONSULTING GEOLOGIST

DIAMOND DRILL RECORD  
ST. JUDE RESOURCES LTD. EARNNGY. TWP. ONT.

GEOLOGY

HOLE NO. JR-93-11 SHEET NO. 2

LATITUDE \_\_\_\_\_ DATUM \_\_\_\_\_ STARTED \_\_\_\_\_  
 DEPARTURE \_\_\_\_\_ BEARING \_\_\_\_\_ COMPLETED \_\_\_\_\_  
 ELEVATION \_\_\_\_\_ DIP \_\_\_\_\_ ULTIMATE DEPTH \_\_\_\_\_

DEPTH FEET	FORMATION
337.7-343.1	<p><u>WHITE QUARTZ VEIN "WOOD VEIN"</u> WHITE QUARTZ VEIN WITH PARALLEL CONTACTS @ 38° TO CORE AXIS. AIRLINE FRACTURES OCCUR PARALLEL TO VEIN WALLS MOST OF THESE FRACTURES OCCUR TOWARDS THE FOOTWALL, THE FRACTURES ARE STAINED WITH CHLORITE AND RARELY EUCSHITE AND OCCASIONALLY PYRITE FINE GRAINS OF VISIBLE GOLD (13) WERE NOTICED IN THE AREA OF GREATEST FREQUENCY OF FRACTURES (AT FOOTWALL) SOME FINE SPECKS OF GALENA AND RARE SNA LCO PYRITE</p>
343.1-366.0	<p><u>BASALT</u> FILLWATER LAVA, FINE GRAINED, GREENISH SOME STRONGER FOLIATION OCCURS A FEW FEET BELOW THE WOOD VEIN FOOTWALL</p>
366.0	<p>END OF HOLE.</p>
	<p>CORE STORED IN RACKS, AT DRILL SITE.</p>

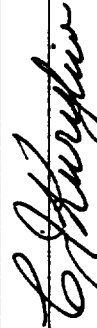
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IN FEET. GEOLOGY HOLE NO. JR-93-12 SHEET NO. 1

LATITUDE 2, 244.59 - N DATUM CHAM 910547 (S-U) STARTED MAR 29, 1993  
 DEPARTURE 2, 008.0 - E BEARING DUE EAST COMPLETED MAR 31, 1993  
 ELEVATION 4, 993.7 COLLAR Ø 530' ULTIMATE DEPTH 541.0  
 DIP -69° -65°S

DEPTH FEET	FORMATION
0-16.0	CASING - IN OVERBURDEN, MUSKEG, GRAVEL DETRITAL BOULDERS
16.0-267.0	BASALT - MASSIVE FLOW, A FEWER MEDIMUM GRAINED DARK GRAY GREEN ROCK, WITH A FOLIATED GREEN APPERANCE SOME FINE FLECKE OF LEUCOSENE?
267.0-285.75	BASALT - SPHERULITIC PILLOW LAVA LIGHT GREY-GREEN WITH 1-15 mm. LOTN LIKE AGGREGATIONS OF AMPHIBOLE-BADDELEY IN PHENOCRYST FARM.
285.75-295.0	BASALT - MASSIVE FLOW (AS ABOVE)
295.0-313.5	BASALT - SPHERULITIC PILLOW LAVA (AS ABOVE) POORLY DEVELOPED SPHERULES AT PILLOW SECTIONS.
313.5-332.4	MIXED SPHERULITIC PILLOW LAVA AND DACITE BEECCIA, STRONGLY SERICIZED.
332.4-374.9	BASALT - SPHERULITIC PILLOW LAVA, FINE PHENOCRYSTS OF LEUCOSENE

B.Q. CORE SIZE  
 DRILLED BY KENNER SOIL & DRILLING  
 FIELD GEOL - D. ALDERMAN

  
 SIGNED CHESTER J. KURLIWI, M.Sc., P. ENG.  
 CONSULTING GEOLOGIST

DIAMOND DRILL RECORD  
 ST. JUDE RESOURCES LTD. EARNY TWP. ONT.  
 SAMPLING

HOLE NO. JR-93-11 SHEET NO. 1

LATITUDE \_\_\_\_\_ DATUM \_\_\_\_\_ STARTED \_\_\_\_\_  
 DEPARTURE \_\_\_\_\_ BEARING \_\_\_\_\_ COMPLETED \_\_\_\_\_  
 ELEVATION \_\_\_\_\_ DIP \_\_\_\_\_ ULTIMATE DEPTH \_\_\_\_\_

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	WZA AN	OZS
	DACITE, SHEARED	14973	336.0	337.7	1.7	0.002	0.99
WDCO. VEIN 337.7-343.1 (5.4)	WHITE QUARTZ VEIN, MINOR CHLORITE	14974	337.7	339.2	1.5	Tr	
	WHITE QUARTZ VEIN, 1 SPECK OF VG	14975	339.2	340.7	1.5	0.360	0.052
					CHECK	0.394	
					ANAL.	0.372	
	WHITE QUARTZ VEIN, 14 FINE SPECKS OF VG.	14976	340.7	341.7	1.0	2.432	0.082
	SAME FINE AIRLINE FRACTURES PARALLEL TO FOOTWALL.				CHECK	3.164	
					ANAL.	2.798	
	WHITE QUARTZ VEIN, WITH VEINLITHS OF BASALT.	14977	341.7	343.1	1.4	0.059	
	BASALT, SHEARED, MINOR SILICIFICATION	14978	343.1	346.0	2.9	0.003	
	BASALT, SHEARED, MINOR SILICIFICATION	14979	346.0	348.0	2.0	Tr	

Signed: *E. J. Kurylow*  
 CHESTER J. KURYLOW, M.Sc., P. Eng.  
 CONSULTING GEOLOGIST

DRILLED BY \_\_\_\_\_



DIAMOND DRILL RECORD  
ST. JUDE RESOURCES LTD. EARNGY TWP. ONT.

GEOLOGY      HOLE NO. JR-93-12 SHEET NO. 2

LATITUDE \_\_\_\_\_ DATUM \_\_\_\_\_ STARTED \_\_\_\_\_  
 DEPARTURE \_\_\_\_\_ BEARING \_\_\_\_\_ COMPLETED \_\_\_\_\_  
 ELEVATION \_\_\_\_\_ DIP \_\_\_\_\_ ULTIMATE DEPTH \_\_\_\_\_

DEPTH FEET	FORMATION
374.9-385.25	DACITE - LIGHT TO DARK GREY, FINE GRAINED, SOME SERICITIC STAS.
385.25-389.6	DIORITIC DYKE - FINE TO MED. GRAINED, EQUIGRANULAR WITH CHILLED MARGINS, UPPER CONTACT @ 27° LOWER @ 33° TO CORE AXIS
389.6-419.6	DACITE - LIGHT TO DARK GREY, FINE GRAINED.
419.6-444.1	BASALT - SPHERULITIC PILLOW LAVA.
444.1-448.1	GABBRO DYKE - MED. GRAINED, EQUIGRANULAR, WITH CHILLED MARGINS @ 65° TO CORE AXIS, LOWER CONTACT HAS 1CM OF GORGE
448.1-459.9	BASALT - SPHERULITIC PILLOW LAVA.
459.9-461.1	LAMP DYKE - GREY-BLACK, FINE GRAINED, BILITE PHENOS
461.1-487.0	BASALT - SPHERULITIC PILLOW LAVA.
487.0-521.8	DACITE - LIGHT TO DARK GREY FINE GRAINED, SHEAR SP AND FRACTURED @ 579.0-521.3 NEAR HANGING WALL OF UNCO VEN.

10-10-80

DRILLED BY \_\_\_\_\_

SIGNED CHESTER J. KURLIOW, M.Sc., P. Eng.  
CONSULTING GEOLOGIST

DIAMOND DRILL RECORD  
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GEOLOGY

HOLE NO. JR-93-12 SHEET NO. 3

LATITUDE \_\_\_\_\_ DATUM \_\_\_\_\_ STARTED \_\_\_\_\_  
 DEPARTURE \_\_\_\_\_ BEARING \_\_\_\_\_ COMPLETED \_\_\_\_\_  
 ELEVATION \_\_\_\_\_ DIP \_\_\_\_\_ ULTIMATE DEPTH \_\_\_\_\_

DEPTH FEET	FORMATION	FORMATION
521.3-524.7	WHITE QUARTZ VEIN - "WAGO" VEIN	
	WHITE QUARTZ VEIN WITH IRREGULAR CONTACTS @ 30'-35'	
	TO THE CORE AXIS, 5 SPECKS OF VISIBLE GOLD @ 524'	
	ASSOCIATED WITH GALENA AND SOME SPHALERITE. THE GOLD	
	IS ASSOCIATED WITH HORIZONTAL FRACTURES THAT OCCUR	
	PARALLEL TO FOOTWALL.	
524.7-543.0	BASALT- PILLOW LAVA, FINE GRAINED.	
	FROM 524.7-529.3 STRONGLY SHEARED NEXT TO FOOTWALL	
	OF WAGO VEIN WITH UP TO 50% Biotite ALTERATION.	
	543.0. END OF HOLE	
	CORE STOPPED IN ROCKS AT DRILL SITE.	





DIAMOND DRILL RECORD  
ST. JUDE RESOURCES LTD. EARNGY TWP. ONT.

IN FEET. GEOLOGY

HOLE NO. JR. 93-13 SHEET NO. 1

LATITUDE 42° 38' 35" N

DATUM CHAIM 9105A7 (S-W)

STARTED MAR 31, 1993

DEPARTURE 1, 992.5 - E

BEARING DUE EAST

COMPLETED APRIL 3, 1993

ELEVATION 4, 992.9

COLLAR 200' 400' 600' 800'

ULTIMATE DEPTH 816.0

DEPTH FEET	FORMATION
0 - 14.0	CASING - OVERBURDEN. MUSKIE, GRAVELY SANDER DETRIAL.
14.0 - 75.0	BASALT - MASSIVE FLOW, DARK GREY-GREEN, MED GRAINED EQUIGRAN.
75.0 - 92.5	BASALT - PILLOWED LAVA, WITH CONTACTED PILLOW RIMS, SOME EPIDOTE-CARR - SERPENTINE ALTERATION, FINE GRAINED, GREEN.
92.5 - 151.5	BASALT - MASSIVE FLOW, DARK GREY GREEN, A FINE MEDIAN GRAN. RIZ VEINLET 141.0 - 141.6.
151.5 - 173.3	FELSIC DYKE - LIGHT GREY-BUFF, FINE GRAINED RHYO-DACITE (R-φ?) STRONGLY SERICITIZED AT UPPER AND LOWER MARGINS (3-4') PARALLEL AT 20° TO CORE AXIS. (QUARTZ PORPHYRY DYKE?)
173.3 - 535.5	BASALT - MASSIVE FLOW DARK GREY-GREEN, MED GRAN.
535.5 - 544.0	MAX DACTITE - SPHERULITIC PILLOW LAVA MIXED BRECCIA. 539.0 - 539.6 QUARTZ RICH ZONE.
544.0 - 554.6	BASALT - SPHERULITIC PILLOW LAVA, FINE GRAINED, GREENISH.

BQ. CORE SIZE

DRILLED BY KENARA SOIL + DRILLING  
FIELD GEOL - D. ALDERMAN

*L. J. Kurylow*

SIGNED CHESTER J. KURYLOW, M.Sc., P. ENG.  
CONSULTING GEOLOGIST



DIAMOND DRILL RECORD  
 ST. JUDE RESOURCES LTD. EARNGY TWP. ONT.  
 GEOLOGY

HOLE NO. JR 93-13 SHEET NO. 2

LATITUDE \_\_\_\_\_ DATUM \_\_\_\_\_ STARTED \_\_\_\_\_  
 DEPARTURE \_\_\_\_\_ BEARING \_\_\_\_\_ COMPLETED \_\_\_\_\_  
 ELEVATION \_\_\_\_\_ DIP \_\_\_\_\_ ULTIMATE DEPTH \_\_\_\_\_

DEPTH FEET	FORMATION	FORMATION
554.6-557.8	DACITE -	
557.8-572.3	BASALT - SPHERULITIC PILLOW LAVA	
572.3-579.5	DACITE -	
579.5-606.75	BASALT - SPHERULITIC PILLOW LAVA	
606.75-622.75	DACITE -	
622.75-692.0	BASALT - SPHERULITIC PILLOW LAVA	
692.0-697.0	DACITE -	
697.0-704.5	BASALT - SPHERULITIC PILLOW LAVA	
704.5-725.75	DACITE -	
725.75-728.3	"4000" BREAK STRONGLY SHEARED, WITH 25% CONTACTED QUARTZ STRINGERS, CHLORITE, TRACES OF PYRITE, CHALCOPYRITE & PO.	
728.3-753.7	BASALT - GREENISH SHEARED, WITH SOME RTZ CORN AROUND SHEAR	
753.7-797.7	DACITE - FINE GRAINED LIGHT TO DARK GREY.	
797.7-816.0	BASALT - MASSIVE FLOW	
	816.0 END OF HOLE	
	CORE STORED AT DRILL SITE.	

DIAMOND DRILL RECORD  
ST. JUDE RESOURCES LTD. EARNGY TWP. ONT.

IN FEET  
HOLE NO. JR. 9314 SHEET NO. 1

LATITUDE 1,992.06 - N      DATUM CHAIN 910547 (S-22)      STARTED APRIL 4, 1993  
 DEPARTURE 1,955.6 - E      BEARING DUE EAST      COMPLETED APRIL 5, 1993  
 ELEVATION 4,998.1      DIP COLLAR - 45°, 200' - 37°      ULTIMATE DEPTH 265'

DEPTH FEET	FORMATION
0-9.0	CASING - OVERBURDEN, MUCKS, BOULDERS.
9.0-89.2	BASALT - MASSIVE FLOW, GREYISH TO DARK GREEN, MED-GRAINED, 29.3-29.5 WHITE QUARTZ VEIN.
89.2-101.5	BASALT - SPHERULITIC PILLOW LAVA, GREENISH, FINE GRAINED.
101.5-143.6	DACITE - FINE GRAINED LIGHT TO DARK GREY, FRACTURED.
143.6-149.2	BASALT - SPHERULITIC PILLOW LAVA
149.2-181.25	DACITE - AS ABOVE
181.25-225.4	BASALT - SPHERULITIC PILLOW LAVA.
225.4-233.75	DACITE - AS ABOVE

B.Q. CORE SIZE  
 DRILLED BY HENDRA SOIL + DRILLING  
 FIELD GEOL. D. ALDERMAN

SIGNED  
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 CONSULTING GEOLOGIST

*C. J. Kuyliw*



DIAMOND DRILL RECORD  
 ST. JUDE RESOURCES LTD. EARNGY TWR. ONT.  
SAMPLING

HOLE NO. JR 93-14 SHEET NO. 1

LATITUDE \_\_\_\_\_ DATUM \_\_\_\_\_ STARTED \_\_\_\_\_  
 DEPARTURE \_\_\_\_\_ BEARING \_\_\_\_\_ COMPLETED \_\_\_\_\_  
 ELEVATION \_\_\_\_\_ DIP \_\_\_\_\_ ULTIMATE DEPTH \_\_\_\_\_

DEPTH FEET	FOUNDATION	SAMPLE NO.	FROM	TO	WIDTH	DIA. AN
	<u>PACITE, SLIGHTLY SHEARED.</u>	<u>14993</u>	<u>23175</u>	<u>23375</u>	<u>2.0</u>	<u>0.008</u>
<u>WOOD VEIN.</u>	<u>WHITE QUARTZ VEIN, TRACES GALENA</u>	<u>14994</u>	<u>23375</u>	<u>23475</u>	<u>1.0</u>	<u>0.036</u>
	<u>WHITE QUARTZ VEIN, TAGALANA, 4 SPECKLES V6</u>	<u>14995</u>	<u>23475</u>	<u>2356</u>	<u>0.85</u>	<u>0.168</u>
	<u>BASALT, SHEARED</u>	<u>14996</u>	<u>2356</u>	<u>2390</u>	<u>3.4</u>	<u>0.006</u>
					<u>CHECK</u>	<u>0.156</u>
					<u>AVER.</u>	<u>0.162</u>


*C. Kurylew*  
 CHESTER J. KURYLEW, M.Sc., P. Eng.  
 CONSULTING GEOMINIST

DRILLED BY \_\_\_\_\_ SIGNED \_\_\_\_\_

DIAMOND DRILL RECORD  
ST. JUDE RESOURCES LTD. EARNGY TWP. ONT.

IN FEET. HOLE NO. JR-93-15 SHEET NO. 1  
 LATITUDE 1,992.23 - N DATUM CLAIM 910.547 (S44) STARTED APRIL 5, 1993  
 DEPARTURE 1,953.8 - E BEARING DUE EAST COMPLETED APRIL 6, 1993  
 ELEVATION 4,998.1 DIP COLLAR -63°, 200' -60:5 UTMATIC DEPTH 376'0

DEPTH FEET	FORMATION
0 - 8.0	CASING - OVERBURDEN
8.0 - 126.9	BASALT - MASSIVE FLOW, DARK GREY-GREEN, MEDIUM GRAINED
126.9 - 172.8	BASALT - SPHERULITIC ALLOW LAVA; LIGHT GREEN SEEY FINE GRAINED, WITH LATH LIKE PHENOCRYSTS THAT ARE AGGREGATES OF AMPHIBOLE - BASALT.
172.8 - 254.8	DACITE - LIGHT TO DARK GREY, FINE GRAINED, BLACK NETWORK OF FINE HAIRLINE FRACTURES, SOME SERICIZATION @ 172.8 - 176.8 194.6 - 196.9 BASALT SPHERULITIC PILLOW LAVA.
254.8 - 324.5	BASALT - SPHERULITIC PILLOW LAVA, LIGHT GREENISH, FINE GRAINED, WITH LATH-LIKE FLECK-PHENOCRYSTS OF AMPHIBOLE - BIOTITE
324.5 - 330.5	DACITE - DARK GREY, FINE GRAINED (MUD FAULT @ 330.5)
330.5 - 343.5	DACITE - FINE GRAINED, SHEARED. BRECCIA ZONE 343.5 - 344.0. HIGHLY FRACTURED FAULT?
	B.G. CORE SIZE

SIGNED CHESTER J. KUPYLIW, M.Sc., P. Eng.  
 CONSULTING GEOLOGIST  


DRILLED BY XENARA SOIL + DRILLING  
 FIELD GEOL - D. ALDERMAN





DIAMOND DRILL RECORD  
ST. JUDE RESOURCES LTD. EARNNGY TWP. ONT.

IN FEET GEOLOGY HOLE NO. JR. 93-16 SHEET NO. 1

LATITUDE 1871.98 -N DATUM CLAIM 910547 (SW) STARTED APRIL 6, 1993  
 DEPARTURE 1,983.9 -E BEARING DUE EAST COMPLETED APRIL 7, 1993  
 ELEVATION 4,999.0 DIP COLLAR -55° @ 200' -52° ULTIMATE DEPTH 216' 0"

DEPTH FEET	FORMATION
0-10.0	CASING - OVERBURDEN
10.0-28.0	DACITE - BANDED DACITE TUFF, STRINGERS WITH SERICITE
28.0-137.3	BASALT - COMPLEX, RESEMBLES SPHERULITIC PILLOW LAVA AND CORAL GABBRIC ROCK.
137.3-137.8	BASALT - SPHERULITIC PILLOW LAVA, TYPICAL, WITH LATH-LIKE FLECKS OF AMPHIBOLE - BIRTITE.
137.8-155.8	DACITE - LIGHT GREY, FINE GRAINED, SERICITE ALONG FRACTURES.
155.8-156.6	<u>WOOD BREAK(?)</u> SHEARED ZONE WITH 25% ATZ STRS. 2 1/2 FRACTURES WOOD STRINGER EXTENSION ZONE?
156.6-206.0	BASALT PILLOW LAVA, FINE GRAINED. GREENISH - GREY.
206.0	END OF HOLE
	CORE STORED IN RACKS, AT DRILL SITE

DRILLED BY KENORA SOIL + DRILLING  
 FIELD GEOL. - D ALDERMAN

*C. J. Kurylew*

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DIAMOND DRILL RECORD  
ST. JUDE RESOURCES LTD. EARNGY TWP. ONT.

HOLE NO. JR-93-17 SHEET NO. 1

GEOLOGY

STARTED APRIL 7, 1993

DATUM CLAIM 910547 (S-W)

COMPLETED APRIL 8, 1993

BEARING DUE EAST

ULTIMATE DEPTH 306.0

DIP COLLAR -70°, @ 306' - 68½

IN FEET

LATITUDE 1871.98 -N

DEPARTURE 1981.7 -E

ELEVATION 4,999.0

DEPTH FEET	FORMATION
0-9.0	CASING. - OVER BURDEN.
9.0-48.4	DACITE - FINE GRAINED, LIGHT TO DARK GREY, SOME CALCITE - SERICITE FILLED FRACTURES
48.4-50.8	QUARTZ VEIN - PATCHY, WHITE TO GLASSY TRANSPARENT WITH TOURMALINE, CALCITE TRACE PYRITE.
50.8-51.6	DACITE - AS ABOVE
51.6-203.2	BASALT - SPHERULITIC PILLOW LAVA, LIGHT GREEN WITH LATH LIKE FLECKS OF AGGREGATE OF AMPHIBOLE - BICHITE. 85.3-91.5 MAFIC DYKE
203.2-240.3	DACITE - LIGHT TO DARK GREY, FINE GRAINED, SHEARED @ 236.3-240.8
240.3-241.5	WOOD BREAK? SHEARED, STRINGER EXTENSION ZONE OF WOOD VEIN 20% CHLORITE, 20% CHLORITE, 1-2% PY, RARE CHALCO
241.5-306.0	BASALT PILLOW LAVA - FINE GRAINED, GREYISH, SHEARED FROM 241.5-251.0
	306.0 END OF HOLE CORE STORED AT DRILL SITE

B.A. CORE SIZE

DRILLED BY XENORA SOU + DRILLING FIELD GEOL - D. ALDERMAN

*C. J. Kuylen*

SIGNED CHESTER J. KUYLIW, M.Sc., F. Eng. CONSULTING GEOLOGIST



16 'B

No. 18

DIAMOND DRILL RECORD  
ST. JUDE RESOURCES LTD. EARNNGY. TWP. ONT.

HOLE NO. JR-18-93 SHEET NO. 1

GEOLOGY

LATITUDE 47, 056.00 N

DATUM CHAIR 910547  
SW COR.

STARTED AUG 11, 1993

DEPARTURE 1, 924.00 E

BEARING EAST

COMPLETED AUG 24, 1993

ELEVATION 4, 997.5 FT.

@ COLLAR @ 200' @ 396'  
DIP -55° -48° -41°

ULTIMATE DEPTH 396.0

DEPTH FEET	FORMATION
0-15.0	CASING, IN MUCKS.
15.0-22.5	SPHERULITIC BASALT LAVA:- A MEDIUM GRANULAR TEXTURE LIGHT GREYISH-GREEN, SOME PILLOW RIMS.
22.5-24.5	LAMPROPHIRE: DYKE - BROWNISH GREY CONTACTS @ 60° TO CORO/ANG
24.5-29.0	SPHERULITIC BASALT LAVA - AS ABOVE.
29.0-32.0	"LAMP" DYKE: CONTACTS @ 65° TO C/ANG
32.0-169.2	SPHERULITIC BASALT LAVA; MEDIUM GRANULAR TEXTURE LIGHT GREYISH GREEN, WELL DEVELOPED SPHERULES @ 160'.
169.2-170.3	"LAMP" DYKE: CONTACTS @ 65° TO C/ANG
170.3-242.2	SPHERULITIC BASALT LAVA: AS ABOVE
242.2-256.0	DACITE: LIGHT PINKISH GREY, HARD POLISHED CORE, BOTH CONTACTS AT 60° TO C/ANG
256.2-309.3	SPHERULITIC BASALT LAVA, AS ABOVE.
309.0-313.0	DACITE: PINKISH GREY, FINE GRAINED, @ 309.0 CONTACT IS @ 60° TO C/ANG @ 313.0 THE CONTACT IS @ 20° TO C/ANG.
	NOTE SINCE THE ABOVE CONTACT -
	@ 242.2, 256.0 AND 309.0 ARE ALL AT 60° TO THE C/ANG
	IT IS INTERPRETED THAT THE BLACK LINED CONTACT AT
	313.0 WHICH IS AT 20° TO THE C/ANG REPRESENTS A FAULT
	BASALT. PILLOWED LAVA, DARK GREENISH, WELL DEVELOPED PILLOW RIMS
	396.0 FT. END OF HOLE.

DRILLED BY KENDER SOUL DRILLING

SIGNED CHESTER J. KUBBYLAW, M.Sc., P. Eng.  
CORPORATE GEOLOGIST

DIAMOND DRILL RECORD  
ST. JUDE RESOURCES LTD. EARNGY TWP. ONT.

HOLE NO JK-19-93 SHEET NO. 1

LATITUDE R, 056.00 N      GEOLOGY  
 DEPARTURE 19 22, 00 E      SW COR. CLAIM  
 ELEVATION 4, 997.5 FT      DATUM 910547  
                                  BEARING EAST  
                                  @ COLLAR @ 200' @ 400'  
                                  DIP -62.      -56.  
                                  STARTED AUG 24, 1993  
                                  COMPLETED AUG 27, 1993  
                                  ULTIMATE DEPTH 436.0

DEPTH FEET	FORMATION
0-15.0	CASING, IN PLACE
15.0-93.5	SPHERULITIC BASALT LAVA - GREEN GREY ALTERED GRANULAR TEXTURE WITH SOME WHITE FLECKS OF LEUCOKENE.
93.5-96.0	LAMP DYKE - GRAYN - BROWN FINE GRAINED, CONTACTS @ 60° TO 61/2
96.0-100.2	SPHERULITIC BASALT LAVA - AS ABOVE.
100.2-104.7	LAMP DYKE - AS ABOVE
104.7-190.5	SPHERULITIC BASALT LAVA - AS ABOVE
190.5-190.6	QUARTZ VEINETS, WHITE - GRAY MINERALIZATION.
190.6-191.1	SPHERULITIC BASALT LAVA - AS ABOVE
191.1-193.1	BULL-QUARTZ VEIN - GLASSY - WHITE REEGLIATE LACK TO TEXTURE. SOME CHALCO
193.1-318.6	SPHERULITIC BASALT LAVA - AS ABOVE, WITH SOME WELL DEVELOPED SPHERULITIC
318.6-321.0	BULL-QUARTZ VEIN - GLASSY - WHITE, REEGLIATE APPEARANCE, NO MINERALIZATION
321.0-336.5	DACITE - PINKISH-GREY, HARD, FINE GRAINED
336.5-400.0	SPHERULITIC BASALT LAVA WITH 5% PSEUDO-PORPHYRITIC LATHS OF APPHYRINE-CHALCITE
400.0-415.8	DACITE - PINKISH-GREY, HARD, FINE GRAINED.
415.8-416.8	WOOD STRINGER ZONE (SOUTH BLOCK?) 20% QUARTZ STRINGERS
416.8-436.0	BASALT - PILLOWED LAVA - GREENISH GREY. 436.0 END OF HOLE

NOTE: THIS HOLE MUST HAVE BENT SOUTH EASTWARDS ACROSS THE SOUTH BOUNDARY.

DRILLED BY HEMORO SON & DRILLING.

*C. J. Gunglin*  
 SIGNED: CHESTER J. GUNGLIN, M.Sc., P. Eng.  
 CONSULTING GEOPHYSICIST



DIAMOND DRILL RECORD  
 ST. JUDE RESOURCES LTD. EARNNGY TWP. ONT. No. 20

HOLE NO. JR. 20.93 SHEET NO. 1  
 STARTED AUG 27, 1993  
 COMPLETED AUG 29, 1993  
 ULTIMATE DEPTH 305' 0"

GEOLOGY  
 SW COR. 910547  
 BEARING EAST @ 306'  
 @ COLLAR @ -45°  
 DIP -50° -45°

LATITUDE 49° 10' 00" N  
 DEPARTURE 1,985.00 E  
 ELEVATION 4,997.5 FT

DEPTH FEET	FORMATION
0-10.0	CASING - IN MUCKEG
10.0-30.5	SPHERULITIC BASALT LAVA - BUFF ALTERED-GARNULAR TEXTURE PR FIC ARE DARK GREENISH GREY WITH FLECKS OF WHITE LEUCARENTE.
30.5-32.8	LAMP-DYKE - BROWNISH FINE GRAINED CONTACTS @ 70° TO CLAW
32.8-39.8	SPHERULITIC BASALT LAVA - (AS ABOVE)
39.8-40.5	LAMP DYKE - (AS ABOVE)
40.5-103.2	SPHERULITIC BASALT LAVA - (AS ABOVE)
103.2-104.2	QUARTZ VENEY - GLASSY-WHITE, PATCHES OF AMPHIBOLE-CHARITZ CONTACT @ 40° C/A
104.2-147.0	SPHERULITIC BASALT LAVA (AS ABOVE)
147.0-177.0	SPHERULITIC BASALT LAVA - 8% PSEUDO PORPHYRITIC LATHS OF AMPHIBOLE - CONTACT LAVA GREY-GREEN GROUNDMASS. DARK GREEN
177.0-184.8	LAMP DYKE, FINE GRAINED GREYISH.
184.8-245.4	SPHERULITIC BASALT LAVA - WITH AMPHIBOLE-CHARITZ LATHS (AS ABOVE)
245.4-257.0	DACITE - LIGHT GREENISH, FINE GRAINED, HARD A FEW FINE FELDSPAR PHENOCRYSTS.
257.0-264.5	WDCO VEIN - MILKY-WHITE SUGARY TEXTURE NEAR HANGING WALL TOWARDS THE FOOTWALL (EAST SIDE) FRACTURES WITH GREENISH STAIN
264.5-305.0	BASALT-FOLLOWED LAMP, DARK GREENISH. OCCURS WITH FINE SPECKS OF K <sub>2</sub> FROM 262.3 TO 264.5.
	305.0 ENDOF HOLE

DRILLED BY XENORA SOIL & DRILLING.

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DIAMOND DRILL RECORD

ST. JUDE RESOURCES LTD. EARNY TWP. ONT.

No 20

SAMPLING

HOLE NO. JR. 20-93 SHEET NO. 1

LATITUDE \_\_\_\_\_ DATUM \_\_\_\_\_ STARTED \_\_\_\_\_  
 DEPARTURE \_\_\_\_\_ BEARING \_\_\_\_\_ COMPLETED \_\_\_\_\_  
 ELEVATION \_\_\_\_\_ DIP \_\_\_\_\_ ULTIMATE DEPTH \_\_\_\_\_

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	WZN AN	AVERAGE ORS. AN.
	WHITE WOOD VEIN, WHITE-CHLORITIC, BARREN	1553	2570	2580	1.0	0.015	WOOD VEIN 0.445 OR. AN 257.0-264.5 AVERAGES
	" " WHITE, BARREN	1554	2580	2590	1.0	0.015	
	" " " "	1555	2590	2600	1.0	0.101	
	" " " "	1556	2600	2610	1.0	0.109	
	" " " "	1557	2610	2623	1.3	0.016	
	WHITE WOOD VEIN, FRACTURES WITH LIGHT GREEN SPIN 10 SPECKS OF FINE VG.	1558	2623	2635	1.2	0.575	
				CHECK		0.563	
	WHITE WOOD VEIN, FRACTURES WITH LIGHT GREEN SPIN STAIN 20 SPECKS OF FINE VG.	1559	2635	2645	1.0	2.254	
				CHECK		2.542	
	BASALT LAMB SHEARED CHLORITIC	1560	2645	2660	1.5	0.009	
	FLAT QUARTZ VEIN, CHLORITIC MINOR PYRITE	1561	103.0	104.0	1.0	0.011	

DRILLED BY \_\_\_\_\_ SIGNED \_\_\_\_\_ CHESTER J. KURYLIW, M.Sc., P. Eng. CONSULTING GEOLOGIST

DIAMOND DRILL RECORD  
 ST. JUDE RESOURCES LTD. EARNNGY. TWP. ONT. No. 21

LATITUDE 8, 106.00 N HOLE NO. JR 21.93 SHEET NO. 1  
 DEPARTURE 1, 982.00 E DATUM CHAIN 910547  
 BEARING EAST COMPLETED SEPT. 1, 1993  
 ELEVATION 4, 997.5 FT. @ CORNER @ 200' @ 3060' ULLTIMATE DEPTH 306'0"

GEOLOGY

SW COR.

DEPTH FEET	FORMATION
0 - 8.0	CASING - IN MUSKEG.
8.0 - 33.0	SPHERULITIC BASALT LAVA - ALTERED GRANULAR TEXTURE, SAME FLECKS OF LENCORENE
33.0 - 36.0	LAMPORPHYRE DYKE - BROWNISH GREY, CONTACTS @ 60° TO C/A
36.0 - 40.5	SPHERULITIC BASALT LAVA - AS ABOVE
40.5 - 42.0	"LAMP" DYKE - AS ABOVE.
42.0 - 83.4	SPHERULITIC BASALT LAVA - AS ABOVE.
83.4 - 84.0	GLASSY QUARTZ VEIN. CONTACTS @ 60° TO CA.
84.0 - 126.0	SPHERULITIC BASALT LAVA - ALTERED GRANULAR TEXTURE, SOME FLECKS OF LENCORENE
126.0 - 129.2	"LAMP" DYKE
129.2 - 165.0	SPHERULITIC BASALT LAVA - AS ABOVE.
165.0 - 262.0	SPHERULITIC BASALT LAVA - WITH 5% FLECKS OF LATHS OF APPROXIMATE-CHAROITE THE PSEUDOPORPHYRITIC-LATHS ARE UP TO 7MM LONG
262.0 - 290.0	DACITE - FINE GRAINED, THE CORE IS HARD-POLISHED, THE COLOR IS VARIABLE FROM LIGHT GREENISH TO LIGHT BROWNISH.
290.0 - 294.2	WOOD VEIN - MILKY-WHITE SUGARY TEXTURE, VEIN CONTACTS @ 60° TO C/PXUS 16. SPECKS OCCUR TOWARDS FOOTWALL FROM 291.6 - 292.9 (10 SPECKS OF V6, A FEW SPECKS OF GALENA TOWARDS THE FOOTWALL.
294.2 - 295.5	BASALT LAVA - PARTLY SHEARED
295.5 - 306.0	BASALT-FOLLOWED LAVA, DARK GREENISH-GREY

DRILLED BY KENORA SOIL & DRILLING

SIGNED  
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 CONSULTING GEOLOGIST



DIAMOND DRILL RECORD  
 ST. JUDE RESOURCES LTD. EARNNGY TWP. ONT. No-21  
 SAMPLING

HOLE NO. JR. 21-93 SHEET NO. 1

LATITUDE \_\_\_\_\_ DATUM \_\_\_\_\_ STARTED \_\_\_\_\_  
 DEPARTURE \_\_\_\_\_ BEARING \_\_\_\_\_ COMPLETED \_\_\_\_\_  
 ELEVATION \_\_\_\_\_ DIP \_\_\_\_\_ ULTIMATE DEPTH \_\_\_\_\_

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	WZN. AN	AVERAGE
289.8-291.6	WOOD VEIN, NO MINERALIZATION VISIBLE	1562	289.8	291.6	1.8	0.061	
291.6-292.6	WOOD VEIN, 10 FINE SPECKS OF V.G. FRACTURES WITH GREEN STAIN	1563	291.6	292.6	1.0	1.142	WOOD VEIN } 1.201
					CHECK	1.261	
292.6-293.6	WOOD VEIN, 2 FINE SPECKS OF V.G.	1564	292.6	293.6	1.0	1.029	
					CHECK	0.039	0.033
293.6-294.4	WOOD VEIN, 5 FINE SPECKS OF V.G. FRACTURES WITH GREEN STAIN. GREEN SPECKS OF GALENA.	1565	293.6	294.4	0.8	0.621	
					CHECK	0.618	0.619
294.4-295.5	BASALT SVEBER, MINOR ANATIZ STRANGERS	1566	294.4	295.5	1.1	0.079	

289.8-294.4 = 0.400.02 RM  
 AVERAGED OVER 4.6 FT

DIAMOND DRILL RECORD  
 ST. JUDE RESOURCES LTD. EARNGY TWP. ONT. No 22.

HOLE NO. 18-2293 SHEET NO. 1

GEOLOGY

LATITUDE 2, 206.00 N  
 DEPARTURE 2, 030.00 E  
 ELEVATION 4, 997.5 FT.

DATUM <sup>SW COR</sup> CHAM 910.547  
 BEARING EAST  
 @ COLLAR @ 200' @ 276'  
 DIP -55' -52' -47 1/2'

STARTED SEPT. 2, 1993  
 COMPLETED SEPT 4, 1993  
 ULTIMATE DEPTH 276'.0

DEPTH FEET	FORMATION
0 - 6.0	CASING - IN PLACES.
6.0 - 188.0	SPHERULITIC BASALT LAVA - ALTERED GRANULAR TEXTURE WITH SOME FINE WHITE FLECKS OF LEUCOXENE. @ 68.0 - 68.5 BULL QUARTZ WITH SOME AMPHIBOLE-CRYSTALS
188.0 - 218.0	SPHERULITIC BASALT LAVA - GREYISH GREEN GRANULAR WITH DARK GREEN LATHS OF AMPHIBOLE-CALCITE THE LATHS ARE UP TO 7MM LONG.
218.0 - 259.4	DAGITE - LIGHT GREENISH GREY. HARD POLISHED CUT AN CORE, SILICUS
259.4 - 265.0	WOCO VEIN (5.6 OF VEIN) WITH CONTACTS AT 55 TO 60 CM/AN MINERALIZED WITH FINE SPECKS OF USABLE GOLD OVER THE FULL LENGTH OF THE VEIN. THE NUMBER OF FINE SPECKS OF GOLD GRADUALLY INCREASES FROM 259.4 TO 265.0 (TOWARDS THE FOOTWALL) A FEW COARSE SPECKS OF GALENA AND CHALCOPYRITE WERE NOTED (93 SPECKS OF KG. WERE NOTED)
265.0 - 276.0	BASALT FLOW LAVA - DARK GREENISH-GREY, SOME FLOW RIMS.
	276.0 END OF HOLE.

DRIILLED BY VENDEA SOIL & DRILLING.

*C. J. Kuryliw*

SIGNED CHESTER J. KURYLIW, M.Sc., P. ENG.  
 CONSULTING GEOLOGIST

DIAMOND DRILL RECORD  
 ST. JUDE RESOURCES LTD. EARNY TWP. ONT. NO 22  
 SAMPLING

HOLE NO. JR-22-93 SHEET NO. 1

LATITUDE \_\_\_\_\_ DATUM \_\_\_\_\_ STARTED \_\_\_\_\_  
 DEPARTURE \_\_\_\_\_ BEARING \_\_\_\_\_ COMPLETED \_\_\_\_\_  
 ELEVATION \_\_\_\_\_ DIP \_\_\_\_\_ ULTIMATE DEPTH \_\_\_\_\_

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	WGS. AN	AVERAGED OUNCES
257.3-259.3	DACITE 1% QUARTZ-CARB STRUNGERS	1567	257.3	259.3	2.0	0.011	
259.3-260.3	WOOD VEIN, 1 SPECK OF FINE V.G.	1568	259.3	260.3	1.0	0.035	
					CHECK	0.430	0.082
260.3-261.3	WOOD VEIN, 5 SPECKS OF FINE V.G. <sup>TRACES</sup> GALENA.	1569	260.3	261.3	1.0	0.190	
					CHECK	0.151	0.174
261.3-262.6	WOOD VEIN, 15 SPECKS OF FINE V.G. TRACES GALENA	1570	261.3	262.6	1.3	1.930	
					CHECK	2.094	1.991
262.6-263.6	WOOD VEIN, 25 SPECKS OF FINE V.G. <sup>TRACES</sup> GALENA FRACTURED WITH GREEN STAINING	1571	262.6	263.6	1.0	3.675	
					CHECK	3.470	3.572
263.6-264.6	WOOD VEIN, 35 SPECKS OF FINE V.G. <sup>TRACES</sup> GALENA FRACTURED WITH GREEN STAINING	1572	263.6	264.6	1.0	4.204	
					CHECK	4.656	4.430
264.6-265.3	WOOD VEIN, 10 SPECKS OF FINE V.G.	1573	264.6	265.3	0.8	1.054	
					CHECK	1.082	1.068
265.3-266.3	BASALT FOOTWALL PARTLY SHEARED 5% ATZ-CARB.	1574	265.3	266.3	1.0	0.014	

1.832 0.25 Au/Tm = WOOD VEIN 259.3-265.3

CHESTER J. KURLIOW, M.Sc., P. Eng.  
 CONSULTING GEOLOGIST

SIGNED

DRILLED BY \_\_\_\_\_

DIAMOND DRILL RECORD  
 ST. JUDE RESOURCES LTD. EARNGY TWP. ONT. No 23

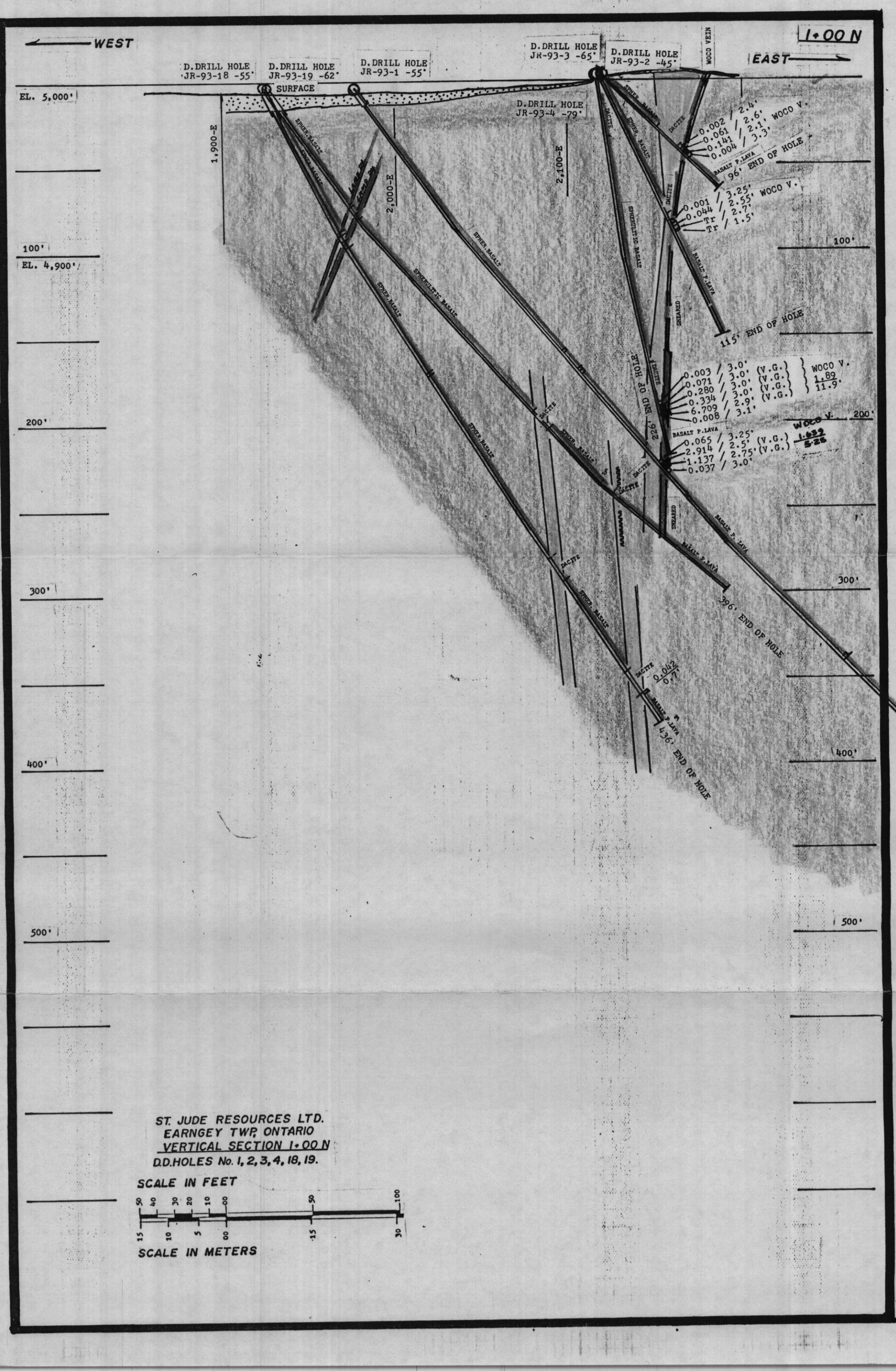
HOLE NO. SR 23-93 SHEET NO. 1  
 GEOLOGY  
 SW COR. DATUM CLAIM 910547  
 BEARING EAST  
 @ CORNER @ 200 @ 346  
 DIP -62° - 62° - 56 1/2°  
 LATITUDE 2,206.00 N.  
 DEPARTURE 2,028.00 E  
 ELEVATION 4,997.5 FT.  
 STARTED SEPT 4, 1993  
 COMPLETED SEPT 7, 1993  
 ULTIMATE DEPTH 3460

DEPTH FEET	FORMATION
0-8.0	CASING, IN MUSKEG
8.0-186.0	SPHERULITIC BASALT LAVA - LIGHT GREENISH-GREY GRANULAR TEXTURE DUE TO UNDEVELOPED SPHERULITES, SOME FLECKS ARE WHITE LEUCOXENE
186.0-261.0	BASALT (SPHERULITIC FORM'N) WITH DARK LATHS OF AMPHIBOLE-CHAROITE IN A LIGHTER GREY GREEN GRANULASS.
261.0-317.7	DACITE - LIGHT GREENISH FINE GRAINED. @ 317.7 A 1/2 INCH FAULT FILLED WITH CALCITE-CHAROITE - GREEN QUARTZ @ 60° TO CLASTIC
317.7-326.4	BASALT LAVA - WITH PATCHES OF DACITE. POSSIBLY A FAULT COMPLEX.
326.4-327.5	QUARTZ VEIN - MOTTLED WITH GREEN CHAROITE PATCHES (NOT THE WOOD VEIN TYPE)
327.5-330.0	BASALT LAVA - DARK GREENISH.
330.0-331.5	BASALT LAVA - WITH 30% QUARTZ STAINERS.
331.5-3460	BASALT LAVA - DARK GREENISH (NO FLOW BANDS RECOGNIZED)
	346.0 END OF HOLE

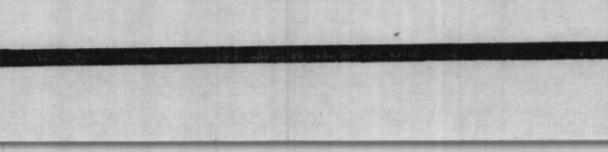
DRILLED BY VENORA SOIL & DRILLING.

SIGNED CHESTER J. KURTZLIW, M.Sc., P. ENG.  
 CONTRACTING GEOLOGIST





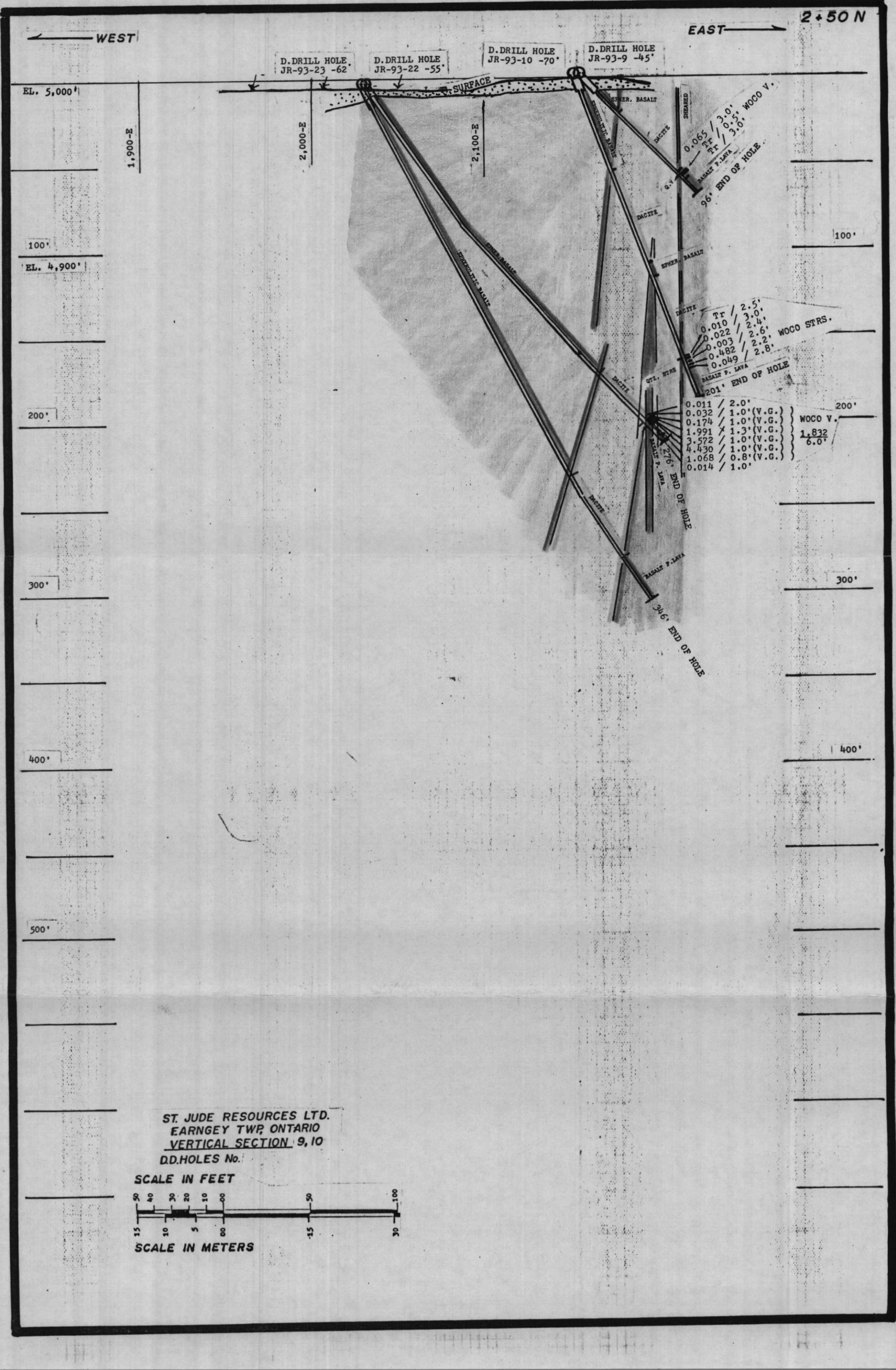
ST JUDE RESOURCES LTD.  
 EARNSEY TWP. ONTARIO  
 VERTICAL SECTION L-00N  
 DDHOLES No. 1, 2, 3, 4, 6, 19.













-WEST

EAST → 04

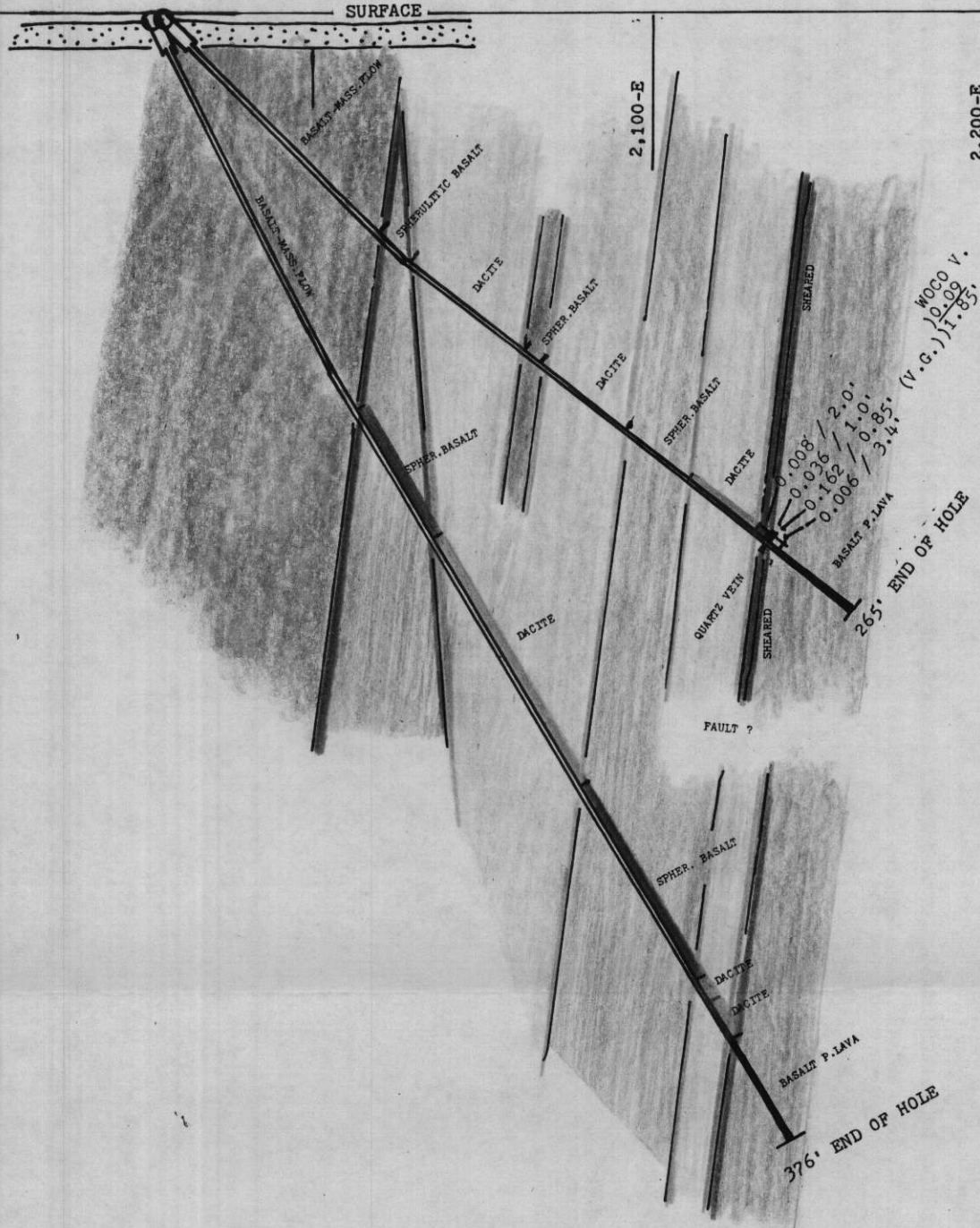
D. DRILL HOLE JR-93-15 -63°  
D. DRILL HOLE JR-93-14 -45°

SURFACE

1,900-E

2,100-E

2,200-E



10211

SEC 0100

WEST

EAST → 0

D. DRILL HOLE  
JR-93-17 -70°

D. DRILL HOLE  
JR-93-16 -55°

SURFACE

1,900-E

2,100-E

DACITE

DACITE

DACITE

q.v.

SPHER. BASAL

SPHER. BASALT

SHEARED

DACITE

0.002 / 1.4'

QZ. STRS

BASALT F. LAVA

216' END OF P

SHEARED

DACITE

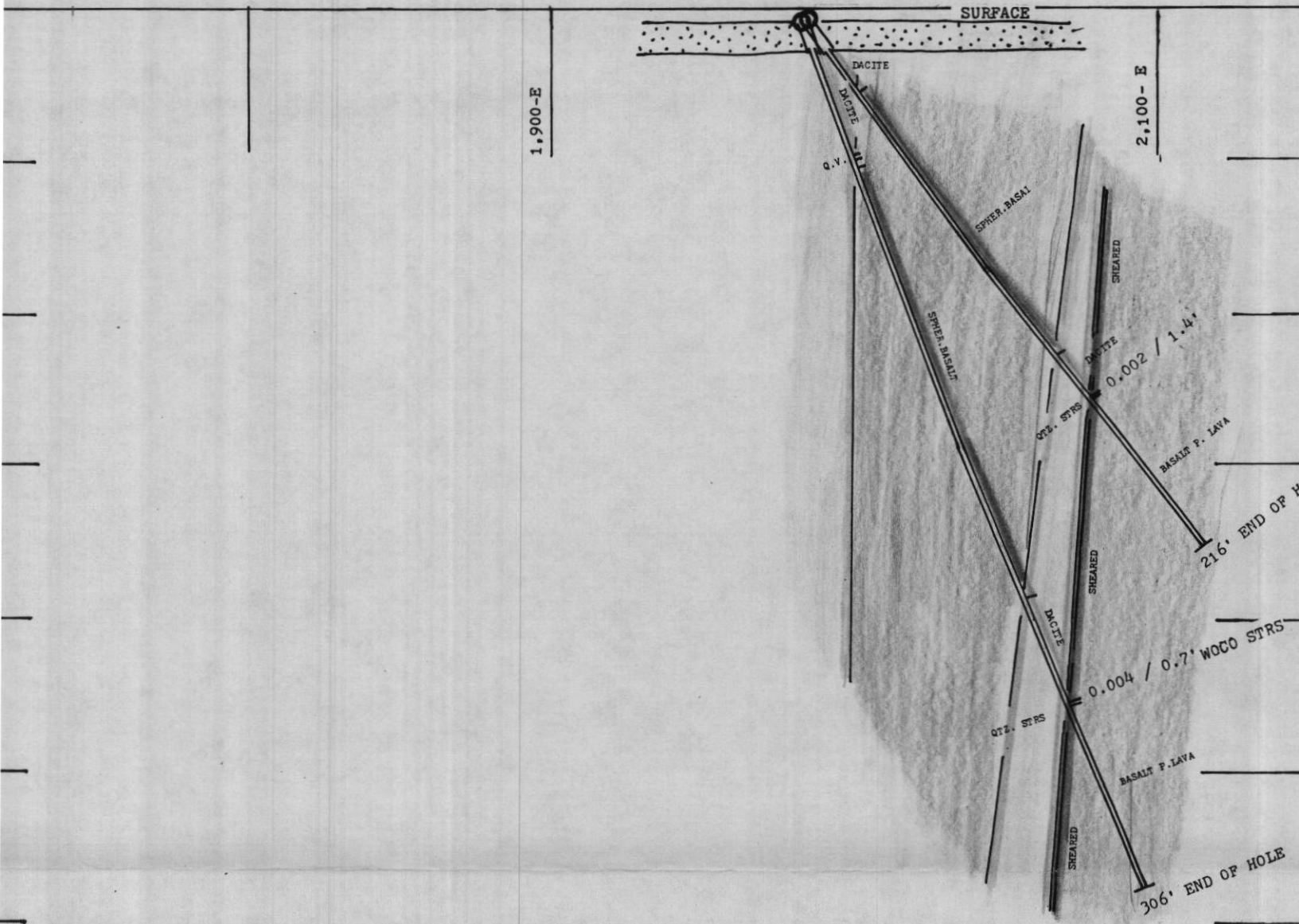
0.004 / 0.7' WOCO STRS

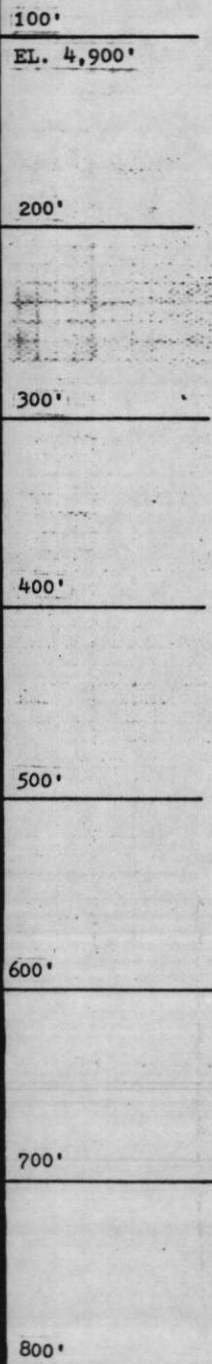
QZ. STRS

BASALT F. LAVA

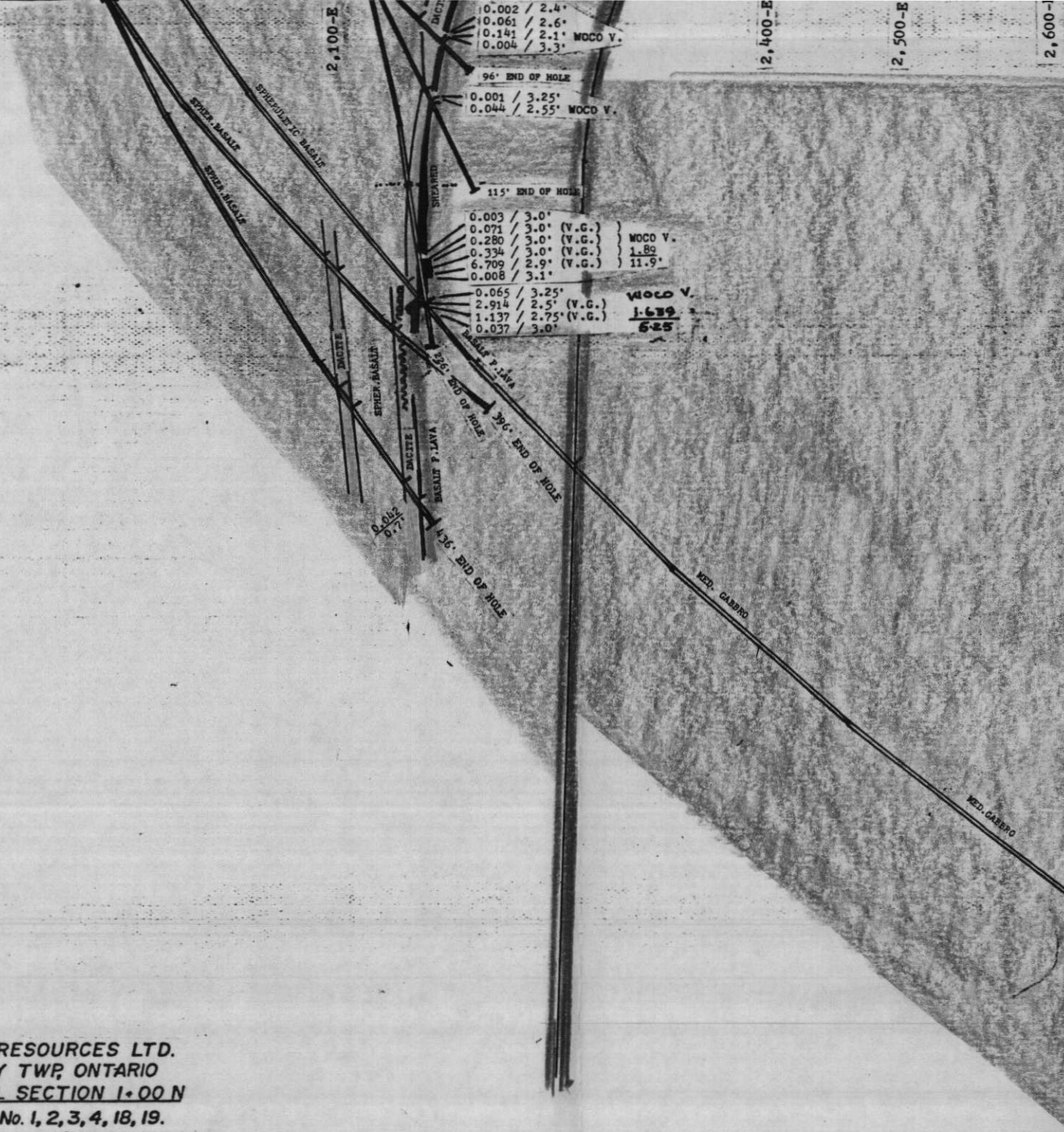
SHEARED

306' END OF HOLE





2,100-E  
2,400-E  
2,500-E  
2,600-E

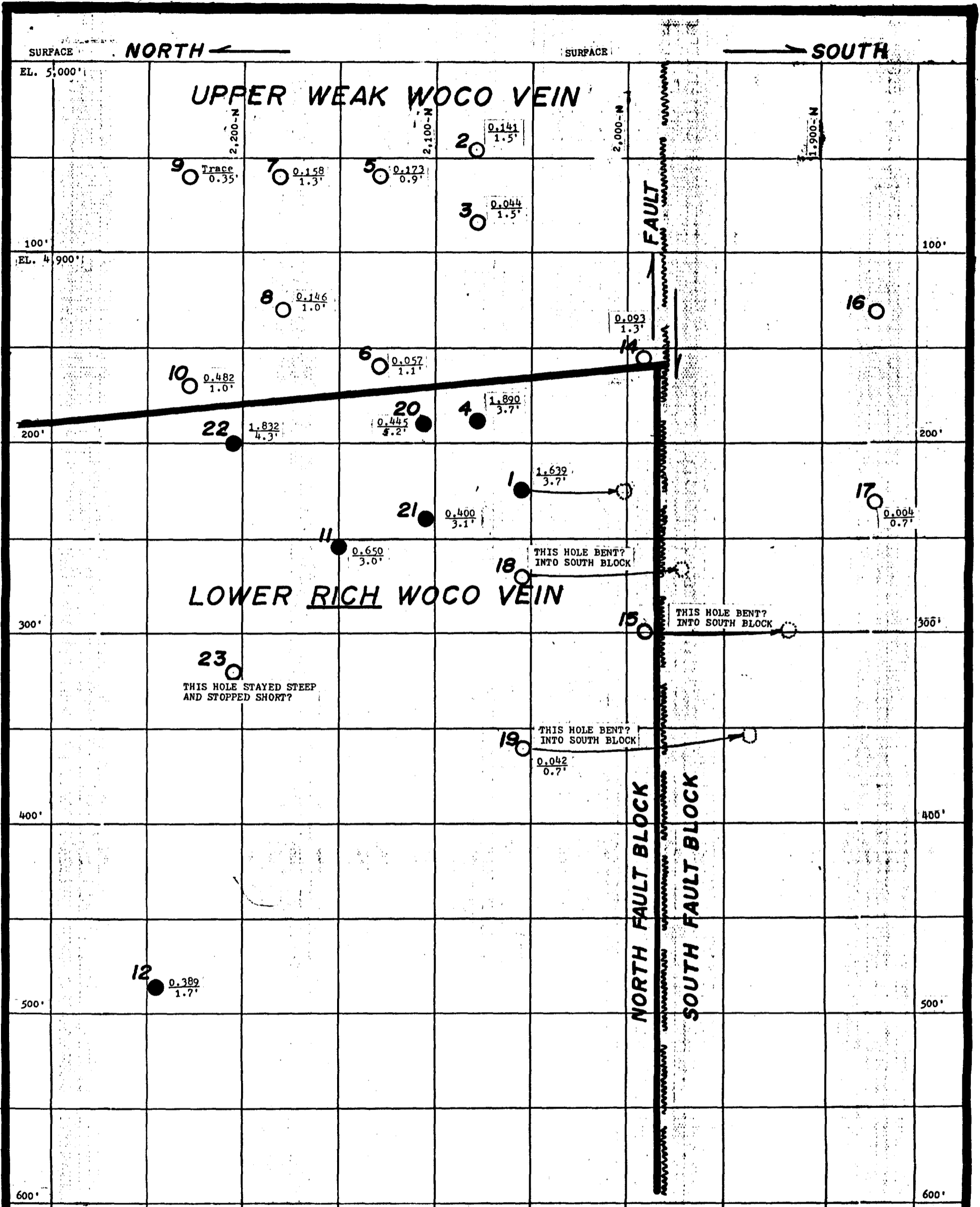


ST. JUDE RESOURCES LTD.  
EARNGEY TWP, ONTARIO  
VERTICAL SECTION 1-00 N  
D.D.HOLES No. 1, 2, 3, 4, 18, 19.

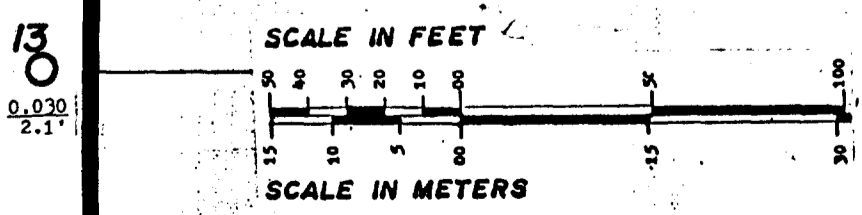




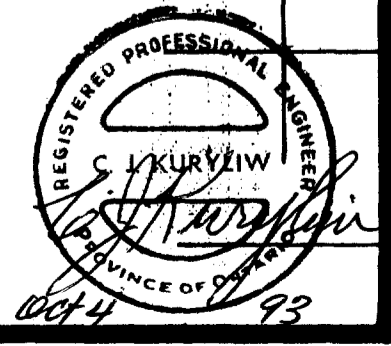




**ST. JUDE RESOURCES LTD - EARNGEY TWP., ONT.**  
**VERTICAL LONGITUDINAL SECTION ALONG WOCO VEIN**



1.832  
4.3' OUNCES GOLD / TON  
TRUE WIDTH OF VEIN IN FEET



ST. JUDE PROPERTY, UCHI LAKE  
 EARNGY, TWP. ONT. APRIL 12, 1993  
 CORRECTED. DRILL HOLE COLLAR COORDS & ELEV.

DRILL HOLE	COLLAR LATITUDE (NORTH)	CORRECTED COLLAR DEPARTURE (EAST)	COLLAR ELEVATION (CORRECTED)	COLLAR BEARING	COLLAR. DIP	(FEET) DEPTH.
JR-93-1	2056.59	1974.6	4997.5	EAST	-55'	1336.
JR-93-2	2079.53	2118.6	5003.3	EAST	-45'	96.
JR-93-3	2079.53	2116.7	5003.3	EAST	-65'	166.
JR-93-4	2079.53	2115.3	5003.3	EAST	-79'	226.
JR-93-5	2130.54	2115.7	5007.2	EAST	-70'	206
JR-93-6	2131.36	2113.1	5007.2	EAST	-45'	96
JR-93-7	2181.77	2133.1	5005.0	EAST	-45'	115
JR-93-8	2181.77	2130.8	5005.0	EAST	-70'	186
JR-93-9	2228.03	2154.6	5001.5	EAST	-45'	96
JR-93-10	2228.03	2151.4	5001.5	EAST	-70'	201
JR-93-11A	2278.00	2151.0	4995.5	EAST	-64'	44'
JR-93-11	2149.61	2005.1	4995.5	EAST	-64'	366'
JR-93-12	2244.59	2008.0	4993.7	EAST	-69'	541'
JR-93-13	2338.45	1923.5	4992.9	EAST	-62'	816'
JR-93-14	1992.06	1955.6	4998.1	EAST	-45'	265'
JR-93-15	1992.23	1953.8	4998.1	EAST	-63'	376'
JR-93-16	1871.98	1983.9	4999.0	EAST	-55'	216'
JR-93-17	1871.98	1981.7	4999.0	EAST.	-70'	306'
					TOTAL	<u>5654 FT.</u>



# WAWA ASSAYING INC.

P.O. Box 1998 - Wawa, Ontario P0S 1K0 - 705-856-4443  
127 Mission Road Fax - 705-856-2902

## CERTIFICATE OF ANALYSIS

NO. 10453

CLIENT: ST. JUDE RESOURCES

DATE: March 11, 1993

PROJECT:

REF: 930311-999

TYPE OF ANALYSIS: fire assay, gravimetric finish

SAMPLE No.	Au oz/ton
14901	nil
14902	tr
14903	nil
14904	0.002
14905	tr
14906	tr
14907	tr
14908	tr
14909	tr
14910	0.002
14911	0.003
14912	tr
14913	0.065
14914	2.914
14915	1.137
14916	0.037

Certified By: Randy Fournier



# WAWA ASSAYING INC.

P.O. Box 1998 - Wawa, Ontario P0S 1K0 - 705-856-4443  
127 Mission Road Fax - 705-856-2902

## CERTIFICATE OF ANALYSIS

NO. 10502

CLIENT: ST. JUDE RESOURCES

DATE: March 30, 1993

PROJECT:

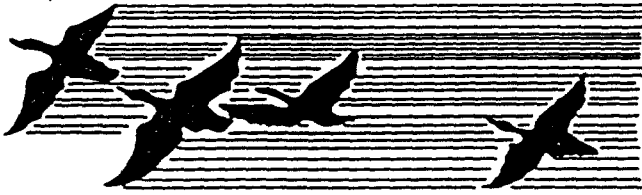
REF: 930330-2027,28

TYPE OF ANALYSIS: fire assay, gravimetric finish

SAMPLE No.	Au oz/ton
14917	tr
14918	tr
14919	0.003
14920	0.007
14921	tr
14922	tr
14923	tr
14924	tr
14925	tr
14926	tr
14927	tr
14928	tr
14929	tr
14930	tr
14931	tr
14932	tr
14933	tr
14934	tr
14935	tr
14936	0.002

Certified By: \_\_\_\_\_

*Moskal*



# WAWA ASSAYING INC.

P.O. Box 1998 - Wawa, Ontario POS 1K0 - 705-856-4443  
127 Mission Road Fax - 705-856-2902

## CERTIFICATE OF ANALYSIS

NO. 10501

CLIENT: ST. JUDE RESOURCES

DATE: March 30, 1993

PROJECT:

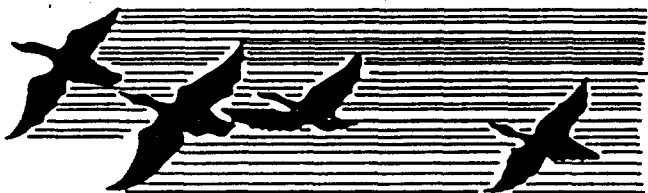
REF: 930330-2027,28

TYPE OF ANALYSIS: fire assay, gravimetric finish

SAMPLE No.	Au oz/ton
14937	0.061
14938	0.141
14939	0.004
14940	0.011
14941	0.044
14942	tr
14943	tr
14944	0.003
14945	0.071
14946	0.274
14947	0.336
14948	6.709
14949	0.008

Certified By: \_\_\_\_\_

*Shirak*



# WAWA ASSAYING INC.

P.O. Box 1998 - Wawa, Ontario P0S 1K0 - 705-856-4443  
127 Mission Road Fax - 705-856-2902

## CERTIFICATE OF ANALYSIS

NO. 10509

CLIENT: ST. JUDE RESOURCES

DATE: April 7, 1993

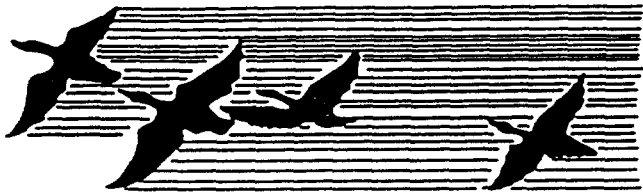
PROJECT:

REF: 930407-3030

TYPE OF ANALYSIS: fire assay, gravimetric finish

SAMPLE No.	Au oz/Ton	Ag oz/Ton
14914		0.055
14915		0.032
14945		0.012
14946		0.027
14947		0.035
14948		0.050
14950	tr	
14951	0.173	
14952	0.018	
14953	tr	
14954	0.006	
14955	0.057	
14956	0.004	
14957	0.020	
14958	0.158	
14959	0.015	
14960	0.012	
14961	0.146	
14962	0.003	
14963	0.065	

Certified By: *Uebel*



# WAWA ASSAYING INC.

P.O. Box 1998 - Wawa, Ontario POS 1K0 - 705-856-4443  
127 Mission Road Fax - 705-856-2902

## CERTIFICATE OF ANALYSIS

NO. 10510

CLIENT: ST. JUDE RESOURCES

DATE: April 7, 1993

PROJECT:

REF: 930407-3030

TYPE OF ANALYSIS: fire assay, gravimetric finish

SAMPLE No.	Au oz/Ton	Ag oz/Ton
14964	tr	
14965	tr	
14966	tr	
14967	0.010	
14968	0.022	
14969	0.003	
14970	0.482	
14971	0.049	
14972	tr	
14973	0.002	
14974	tr	
14975	0.377	0.052
14976	2.798	0.082
14977	0.059	
14978	0.003	
14979	tr	

Certified By: Michael



# WAWA ASSAYING INC.

P.O. Box 1998 - Wawa, Ontario P0S 1K0 - 705-856-4443  
127 Mission Road Fax - 705-856-2902

## CERTIFICATE OF ANALYSIS

NO. 10524

CLIENT: ST. JUDE RESOURCES

DATE: April 12, 1993

PROJECT:

REF: 930412-2032

TYPE OF ANALYSIS: fire assay, gravimetric finish

SAMPLE No.	Au oz/ton	Ag oz/Ton
14980	0.003	
14981	0.005	
14982	nil	
14983	1.202	0.099
14984	0.030	
14985	0.004	
14986	tr	
14987	nil	
14988	tr	
14989	0.028	
14990	0.034	
14991	tr	
14992	tr	
14993	0.008	
14994	0.036	
14995	0.162	
14996	0.006	

Certified By: J.M. [Signature]





# WAWA ASSAYING INC.

P.O. Box 1998 - Wawa, Ontario P0S 1K0 - 705-856-4443  
127 Mission Road Fax - 705-856-2902

## CERTIFICATE OF ANALYSIS

NO. 10526

CLIENT: ST. JUDE RESOURCES

DATE: April 22, 1993

PROJECT:

REF: 930421-2033

TYPE OF ANALYSIS: fire assay, gravimetric finish

SAMPLE No.	Au oz/ton
14997	tr
14998	0.002
14999	nil
15000	0.004

Certified By: *D. Hodiel*



# WAWA ASSAYING INC.

P.O. Box 1998 - Wawa, Ontario P0S 1K0 - 705-856-4443  
127 Mission Road Fax - 705-856-2902

## CERTIFICATE OF ANALYSIS

CLIENT: St. Jude Resources Ltd.

DATE: September 30, 1993

PROJECT:

TYPE OF ANALYSIS: Fire Assay, Gravimetric Finish

SAMPLE NO.	Au oz/ton
1551	0.012
1552	0.042
1553	0.015
1554	0.015
1555	0.101
1556	0.109
1557	0.016
1558	0.575
1559	2.254
1560	0.009
1561	0.011
1562	0.061
1563	1.142
1564	0.029
1565	0.621
1566	0.079
1567	0.011
1568	0.035
1569	0.198

Certified By: Jaunte Moskal



# WAWA ASSAYING INC.

P.O. Box 1998 - Wawa, Ontario P0S 1K0 - 705-856-4443  
127 Mission Road Fax - 705-856-2902

## CERTIFICATE OF ANALYSIS

CLIENT: St. Jude Resources Ltd.

DATE: September 30, 1993

PROJECT:

TYPE OF ANALYSIS: Fire Assay, Gravimetric Finish

SAMPLE NO.		Au oz/ton
1558	Rerun	0.563
1559	"	2.542
1563	"	1.261
1564	"	0.038
1565	"	0.618
1568	"	0.030
1569	"	0.151
1570	"	2.044
1571	"	3.470
1572	"	4.656
1573	"	1.082

Certified By: Janette Moskal



# WAWA ASSAYING INC.

P.O. Box 1998 - Wawa, Ontario P0S 1K0 - 705-856-4443  
127 Mission Road Fax - 705-856-2902

## CERTIFICATE OF ANALYSIS

CLIENT: St. Jude Resources Ltd.

DATE: September 30, 1993

PROJECT:

TYPE OF ANALYSIS: Fire Assay, Gravimetric Finish

SAMPLE NO.		Au oz/ton
1558	Rerun	0.563
1559	"	2.542
1563	"	1.261
1564	"	0.038
1565	"	0.618
1568	"	0.030
1569	"	0.151
1570	"	2.044
1571	"	3.470
1572	"	4.656
1573	"	1.082

Certified By: *Danuta Moshal*



# WAWA ASSAYING INC.

P.O. Box 1998 - Wawa, Ontario P0S 1K0 - 705-858-4443  
127 Mission Road Fax - 705-856-2902

## CERTIFICATE OF ANALYSIS

CLIENT: St. Jude Resources Ltd.

DATE: September 30, 1993

PROJECT:

TYPE OF ANALYSIS: Fire Assay, Gravimetric Finish

---

SAMPLE NO.	Au oz/ton
1570	1.938
1571	3.675
1572	4.205
1573	1.054
1574	0.014
1575	0.005
1576	0.004
1577	0.028

---

Certified By: *Danuta Motal*



52N02SE0015 W9420.00020 UCHI LAKE

UCHI LAKE CLAIMS - 1993 1

Payments Made by  
ST. JUDE RESOURCES LTD.

Kenora Soil and Drilling		\$128,996.52
David Alderman	\$ 2,000.00	
	<u>\$ 3,654.00</u>	\$ 5,654.00
Chester Kuryliw	\$ 6,103.50	
	\$ 2,375.00	
	\$ 3,891.59	
	<u>\$ 1,886.91</u>	\$ 14,257.00
KayAir Services	\$ 1,078.56	
	\$ 321.00	
	\$ 321.00	
	<u>\$ 642.00</u>	\$ 2,362.56
Wawa Assaying	\$ 401.14	
	<u>\$ 1,169.56</u>	\$ 1,570.70
**Lakeland Contracting	<u>\$22,774.57</u>	\$ 22,774.57
GRAND TOTAL		\$175,615.35
Assessment Credit Applied for		<u>\$167,968.00</u>
Difference		\$ 7,647.35

\*\*Only \$15,864.00 were applied to the assessment. The remaining \$7,647.35 is comprised of \$5,800.00 in expenses and \$1,110.49 for GST; and a \$736.00 adjustment on the drill invoices for the 44 feet of DDH JR-11A-93 which was not logged. These costs may be applied for at a later date.

RECEIVED  
OLD FASHIONED DIV.

MAY 24 1994

AM  
1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6

SUMMARY

Two stages of diamond drilling were carried out in the spring and fall of 1993, on St. Jude Resources Earngey Twp. Property. Twenty-three holes were drilled that totalled 7,709 feet. This program was very successful, it discovered the "rich Woco vein" and seven drill holes intersected the rich gold bearing vein.

The "Rich Woco Vein" is located along the contact interface between a competent Dacitic lava flow on the West side and a relatively incompetent basalt pillow lava on the East side, that is sheared at that contact. The Newly discovered "Rich Woco Vein" is essentially a "blind" Gold Deposit that crests about 170 ft. below surface. The "Rich Woco Vein" strikes N-10°-E and dips 80°-W to vertical. The crest of this Vein plunges about -5° Northwards. This Vein is open to the North and down dip, but, it is cut off by a vertical E-W fault at the South.

RECEIVED  
RED LAKE MINING DIV.

MAY 24 1994

In round figures a three hundred foot length is already indicated to the rich vein that has an averaged width of four feet and an averaged grade of 1.10 ounces gold per ton. The exploration to date indicates an averaged one hundred tons per vertical foot of 1.10 ounces grade of gold per ton (uncut). In the rich vein the gold mineralization is finely dispersed as visible gold that favours the east side of the vein. The vein is almost free of sulphides with the exception of traces

DIAMOND DRILL RECORD  
 ST. JUDE RESOURCES LTD. EARNGY TWP. ONT.  
 IN FEET GEOLOGY

HOLE NO. JR. 93-16 SHEET NO. 1

LATITUDE 1871.98 - N DATUM CLAIM 910547 (S.W) STARTED APRIL 6, 1993  
 DEPARTURE 1,983.9 - E BEARING DUE EAST COMPLETED APRIL 7, 1993  
 ELEVATION 4,999.0 DIP COLLAR -55° @ 200' - 52° ULTIMATE DEPTH 216' 0"  
 206

DEPTH FEET	FORMATION
0-10.0	CASING - OVERBURDEN
10.0-28.0	DACITE - BANDED DACITE TUFF, STRAININGS WITH SERICITE
28.0-137.3	BASALT - COMPLEX, RESEMBLES SPHERULITIC PILLOW LAVA AND. COMBINE GABBROIC ROCK.
137.3-137.8	BASALT - SPHERULITIC PILLOW LAVA, TYPICAL, WITH LAVA-LIKE FLECKS OF AMPHIBOLE - SERITE.
137.8-155.8	DACITE - LIGHT GREY, FINE GRAINED, SERICITE ALONG FRACTURES.
155.8-156.6	WOOD BREAK(?) SHEARED ZONE WITH 25% ATZ STR. 2 1/2 FRACTURES WOOD STRAINING EXTENSION ZONE?
156.6-206.0	BASALT PILLOW LAVA, FINE GRAINED. GREENISH - GREY.
	206.0 END OF HOLE
	CORE STORED IN RACKS, AT DRILL SITE

*C. J. Kurzman*

DRILLED BY B.A. CORE SIZE  
 TENEKO SOIL & DRILLING  
 FIELD GEO. - D ALDERMAN

CHESTER J. KURZMAN, M.Sc., F. Eng.  
 CONSULTING GEOPHYSICIST



Hobbes I-17

-50

FOR *W. J. Jude*

FROM 11

WEEKLY REPORT OF DRILLING OPERATIONS AT Hobbes I-17  
 (TO BE FULLY COMPLETED AND MAILED EACH WEEK)

DATE SHIFTS	Hole No.	From	To	Total	Core Recovery	Character of Formations	REMARKS (Time must be accounted for when not drilling)
17	93-J-1	1136	1206	70	70		Feet @ 1186.
17	1	1206	1286	80	80		
17	93-J-1	1286	1286	0	0		
17	11	1286	1336	80	50	E.O.H.	Feet 1336. Pulled Rods.
17	93-J-1					Feet	
17	1					BW-0	
17	93-J-2						
17	93-J-2	66	96	30	30	BW-0-8	10.7 Moved & Set up
17	93-J-3	0	18	18	18	BW-0-8	15.0 H.
17	1	18	186	168	168		
17	93-J-3	126	166	40	40	E.O.H.	
17	93-J-4	0	36	36	32	BW-0-4	
17	1	36	176	140	140		
17	93-J-4	176	226	50	50	E.O.H.	Wound.
17	21						
17	93-J-5	0	96	96	92	BW-0-4	
17	93-J-5	96	206	110	110	E.O.H.	
17	22						
17	93-J-6	0	96	96	96	E.O.H.	BW-0-4

TOTAL FOOTAGE OF \_\_\_\_\_ REQUIRING BY \_\_\_\_\_ DRILL OPERATOR

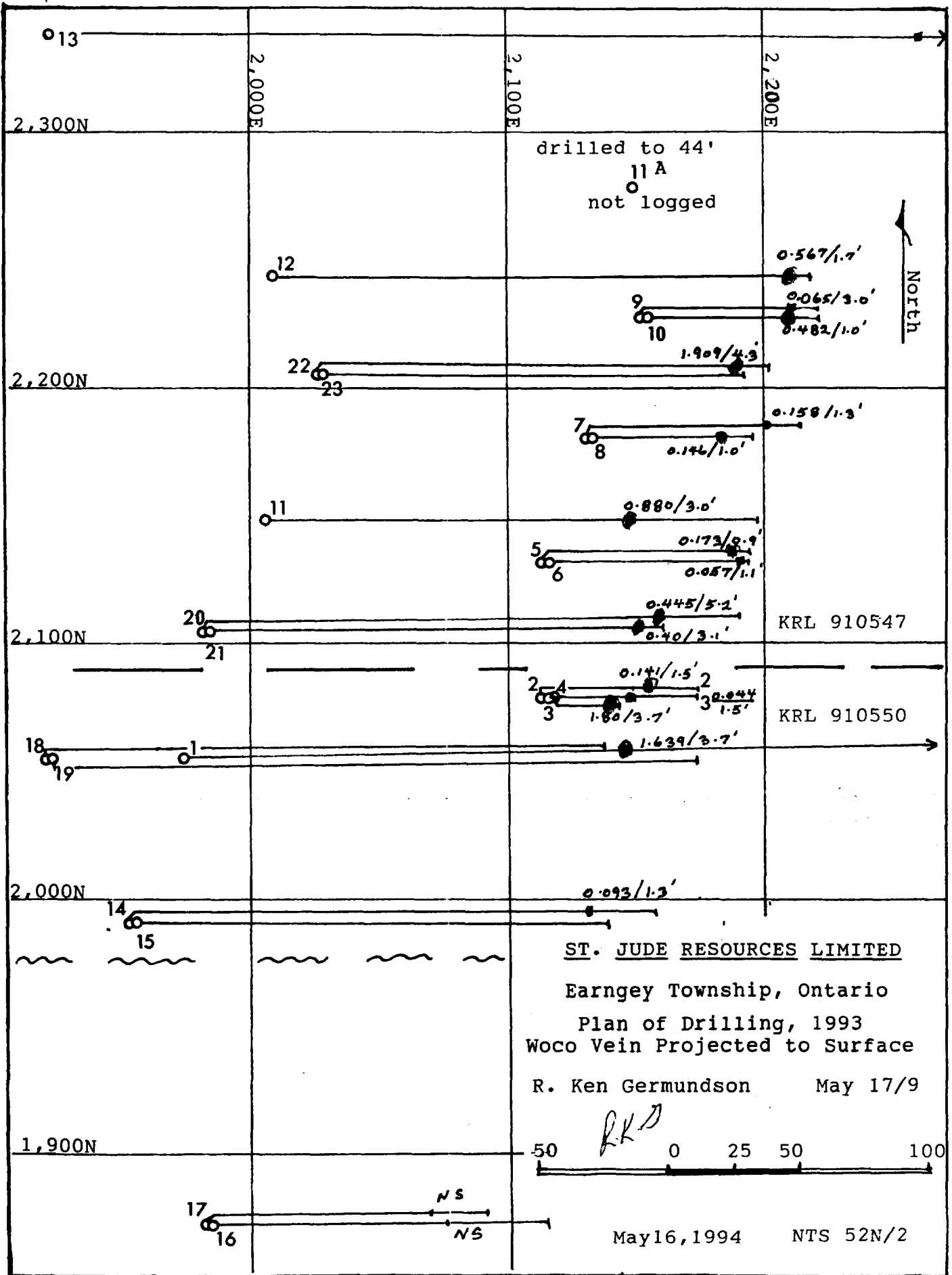
51676 = 51676 AS TABLE 9325

WEEKLY REPORT OF DRILLING OPERATIONS AT Uchi Lake FOR St. Jude FROM Mar  
 (TO BE FULLY COMPLETED AND MAILED EACH WEEK)

DATE SHIFTS	Hole No.	From	To	Total	Core Recovery	Character of Formation	REMARKS (Time must be accounted for when not drilling)	
1st	93J-7	0	45	45	309	BW-0-6	Moved	CI
2nd	93J-7	45	115	70	70	E.O.H.		
3rd	93J-8	0	16	16	12	BW-0-4	Reset Drill	
1st	93J-8	16	186	170	170	E.O.H.	Moved	CI
2nd								
3rd	93J-9	0	56	56	48	BW-0-8		
1st	93J-9	56	96	40	40	E.O.H.	Reset 93J-10	CI
2nd								
3rd	93J-10	56	156	100	100			
1st	93J-10	156	201	45	45	E.O.H.	Moved & Setup	
2nd								
3rd	93J-11	0	16	16	8	BW-0-8	Reset	SI
1st	93J-11	16	44	24	24	E.O.H.	Reset	
2nd	93J-11	0	76	76	70		BW-0-6	
3rd	93J-11	76	216	140	140			
1st	93J-11	216	356	140	140			
2nd								
3rd	93J-11	356	366	10	10	E.O.H.	Test @ 200' Pulled back ready to run	CI
1st	93J-12	0	106	106	90	BW-0-18'	Moved & Setup	
2nd								
3rd	93J-12	106	246	140	140			

TOTAL FOOTAGE OF \_\_\_\_\_ REPORTED BY \_\_\_\_\_ DRILL OPERATOR \_\_\_\_\_





13

2,000E

2,100E

2,200E

2,300N

2,200N

2,100N

2,000N

1,900N

12

9

10

22

23

7

8

11

5

6

20

21

2

3

4

1

2

3

18

19

14

15

17

16

0.567/1.7'

0.065/3.0'

0.482/1.0'

1.909/4.3'

0.158/1.3'

0.146/1.0'

0.880/3.0'

0.173/8.9'

0.057/1.1'

0.445/5.2'

0.40/3.1'

0.141/1.5'

0.044/1.5'

1.80/3.7'

1.639/3.7'

0.093/1.3'

NS

NS

St. Jude Resources Ltd.  
 Uchi Lake Claims  
 Diamond Drill Data to Accompany  
 Location Map of 1993 Diamond Drilling,  
 Plan of Drilling

<u>Hole Number</u>	<u>Location</u>	<u>Angle</u>	<u>Depth</u>
JR-93- 1	2,056.59N; 1,974.6E	-55°	1,336.0 feet
2	2,079.53N; 2,118.6E	-45°	96.0
3	2,079.53N; 2,116.7E	-65°	166.0
4	2,079.53N; 2,115.3E	-79°	226.0
5	2,130.54N; 2,115.7E	-70°	206.0
6	2,131.36N; 2,113.7E	-45°	96.0
7	2,181.77N; 2,133.2E	-45°	115.0
8	2,181.77N; 2,130.8E	-70°	186.0
9	2,228.03N; 2,154.6E	-45°	96.0
10	2,228.03N; 2,151.4E	-70°	201.0
11	2,149.61N; 2,005.1E	-64°	366.0
12	2,244.59N; 2,008.0E	-69°	541.0
13	2,338.35N; 1,923.5E	-62°	816.0
14	1,992.06N; 1,955.6E	-45°	265.0
15	1,992.23N; 1,953.8E	-63°	376.0
16	1,871.98N; 1,983.9E	-55°	206.0
17	1,871.98N; 1,981.7E	-70°	306.0
18	2,056.00N; 1,924.0E	-55°	396.0
19	2,056.00N; 1,922.0E	-62°	436.0
20	2,106.00N; 1,985.0E	-50°	305.0
21	2,106.00N; 1,982.0E	-57°	306.0
22			

# Report of Work Conducted After Recording Claim

Transaction Number  
**W9420.00020**

## Mining Act

Personal information collected on this form is obtained under the authority of the M this collection should be directed to the Provincial Manager, Mining Lands, Mini Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.



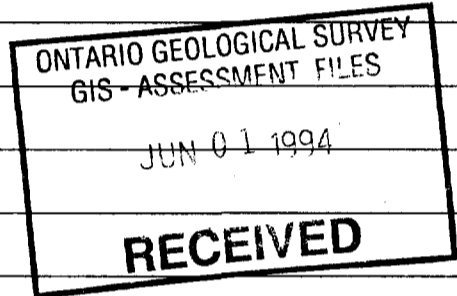
900

- Instructions:**
- Please type or print and submit in duplicate.
  - Refer to the Mining Act and Regulations for requirements of filing assessment work or consult the Mining Recorder.
  - A separate copy of this form must be completed for each Work Group.
  - Technical reports and maps must accompany this form in duplicate.
  - A sketch, showing the claims the work is assigned to, must accompany this form.

Recorded Holder(s) <b>St. Jude Resources, Ltd.</b>	Client No. <b>196893</b>
Address <b>888 Dunsmuir Street, Vancouver, B. C. V6C 3K4</b>	Telephone No. <b>(604) 683-5848</b>
Mining Division <b>Red Lake</b>	Township/Area <b>Uchi Lake/Earnegey Twp.</b>
Dates Work Performed From: <b>March 6</b> To: <b>April 8, 1993</b>	M or G Plan No. <b>G - 1901</b>

**Work Performed (Check One Work Group Only)**

Work Group	Type
Geotechnical Survey	
Physical Work, including Drilling	<b>BQ Diamond Drilling</b>
Rehabilitation	
Other Authorized Work	
Assays	
Assignment from Reserve	



Total Assessment Work Claimed on the Attached Statement of Costs \$ ~~168,771.00~~ **\$ 167,968.<sup>00</sup>**

**Note:** The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

**Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)**

Name	Address
<b>Kenora Soil and Drilling</b>	<b>Kenora, Ontario</b>
<b>Dave Alderman</b>	<b>Lac Du Bonnett, Manitoba</b>
<b>Chester Kuryliw</b>	<b>48 Ingall Drive, Dryden, Ontario</b>

(attach a schedule if necessary)

**Certification of Beneficial Interest \* See Note No. 1 on reverse side**

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	Date <b>March 29, 1994</b>	Recorded Holder or Agent (Signature) <i>[Signature]</i> <b>for St. Jude Resources Ltd</b>
--	-------------------------------	---

**Certification of Work Report**

I certify that I have a personal knowledge of the facts set forth in this Work report, having performed the work or witnessed same during and/or after its completion and annexed report is true.		
Name and Address of Person Certifying <b>Michael J. Terrell, Skead, Ont P0M 2Y0</b>		
Telephone No. <b>(705) 969-8630</b>	Date <b>March 29/94</b>	Certified By (Signature) <i>[Signature]</i>

**For Office Use Only**

Total Value Cr. Recorded <b>\$ 167,968.<sup>00</sup></b>	Date Recorded <b>April 11, 1994</b>	Mining Recorder <b>Barbara Thompson</b> ACTING MINING RECORDER	Received Stamp <b>RECEIVED</b> RED LAKE MINING DIV. <b>APR 11 1994</b>
	Deemed Approval Date	Date Approved <b>May 24/94</b>	AM 7,8,9,10,11,12,1,2,3,4,5,6 PM
	Date Notice for Amendments Sent <b>April 18, 1994</b>		





# Report of Work Conducted After Recording Claim

Transaction Number  
**W9420.00020**

## Mining Act

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about this collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Fourth Floor, 159 Cedar Street, Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.

- Instructions:**
- Please type or print and submit in duplicate.
  - Refer to the Mining Act and Regulations for requirements of filing assessment work or consult the Mining Recorder.
  - A separate copy of this form must be completed for each Work Group.
  - Technical reports and maps must accompany this form in duplicate.
  - A sketch, showing the claims the work is assigned to, must accompany this form.

Recorded Holder(s) St. Jude Resources Ltd.		Client No. 196893
Address 888 Dunsmuir Street, Vancouver, B. C. V6C 3K4		Telephone No. (604) 683- 5848
Mining Division Red Lake	Township/Area Uchi Lake/Earngey Twp.	M or G Plan No. G - 1901
Dates Work Performed	From: March 6 August 11	To: April 8, 1993 September 7, 1993

### Work Performed (Check One Work Group Only)

Work Group	Type
Geotechnical Survey	
Physical Work, Including Drilling	7,665 feet of BQ diamond drilling.
Rehabilitation	
Other Authorized Work	<b>SECTION 18 ONLY</b>
Assays	
Assignment from Reserve	

Total Assessment Work Claimed on the Attached Statement of Costs \$ 167,968

**Note:** The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

### Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)

Name	Address
Kenora Soil and Drilling	Kenora, Ontario
Dave Alderman	Lac du Bonnett, Manitoba
Chester Kuryliw	46 Ingall Drive, Dryden, Ontario

(attach a schedule if necessary)

### Certification of Beneficial Interest \* See Note No. 1 on reverse side

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	Date May 17, 1994	Recorded Holder or Agent (Signature) <i>[Signature]</i>
--	----------------------	--

### Certification of Work Report

I certify that I have a personal knowledge of the facts set forth in this Work report, having performed the work or witnessed same during and/or after its completion and annexed report is true.		
Name and Address of Person Certifying M.I. Terrell, Skead, Ontario P.O.M 240		
Telephone No. (705) 969-8630	Date May 17, 1994	Certified By (Signature) <i>[Signature]</i>

### For Office Use Only

Total Value Cr. Recorded	Date Recorded	Mining Recorder	RECEIVED MAY 24 1994 AM 10:30 11:00 11:30 12:00 1:00 2:00 3:00 4:00 5:00 PM
	Deemed Approval Date	Date Approved	
	Date Notice for Amendments Sent		









Ministry of  
Northern Development  
and Mines

Ministère du  
Développement du Nord  
et des mines

**Statement of Costs  
for Assessment Credit**

**État des coûts aux fins  
du crédit d'évaluation**

**Mining Act/Loi sur les mines**

Transaction No./N° de transaction  
W9420.00020

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la Loi sur les mines et serviront à tenir à jour un registre des concessions minières. Adresser toute question sur la collecte de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4<sup>e</sup> étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

**1. Direct Costs/Coûts directs**

Type	Description	Amount Montant	Totals Total global
<b>Wages Salaires</b>	Labour Main-d'oeuvre		
	Field Supervision Supervision sur le terrain	5,654	5,654
<b>Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert- conseil</b>	Type Drilling	128,996	
	Consulting	14,257	
	Services by Lakeland Exp.	15,864	158,381 <del>159,117</del>
<b>Supplies Used Fournitures utilisées</b>	Type		
<b>Equipment Rental Location de matériel</b>	Type		
<b>Total Direct Costs Total des coûts directs</b>		<del>164,711</del>	<del>164,711</del>

164,035.<sup>00</sup>

**2. Indirect Costs/Coûts indirects**

\*\* Note: When claiming Rehabilitation work Indirect costs are not allowable as assessment work.  
Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Type	Description	Amount Montant	Totals Total global
<b>Transportation Transport</b>	Type KayAir	2,363	
	Assays	1,570	
			3,933
<b>Food and Lodging Nourriture et hébergement</b>		XXXXXX	
<b>Mobilization and Demobilization Mobilisation et démobilisation</b>			
<b>Sub Total of Indirect Costs Total partiel des coûts indirects</b>			3,933
<b>Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)</b>			3,933
<b>Total Value of Assessment Credit (Total of Direct and Allowable indirect costs)</b>		<b>Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)</b>	<del>168,704</del>

167,968

Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

Note : Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

**Filing Discounts**

1. Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
2. Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

Total Value of Assessment Credit	Total Assessment Claimed
	x 0.50 =

**Remises pour dépôt**

1. Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
2. Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calculs ci-dessous.

Valeur totale du crédit d'évaluation	Evaluation totale demandée
	x 0.50 =

RECEIVED  
RED LAKE MINING DIV.  
APR 11 1994

**Certification Verifying Statement of Costs**

I hereby certify:  
that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown on the accompanying Report of Work form.

that as AGENT I am authorized  
(Recorded Holder, Agent, Position in Company)

to make this certification

**Attestation de l'état des coûts**

J'atteste par la présente :  
que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

Et qu'à titre de \_\_\_\_\_ je suis autorisé  
(titulaire enregistré, représentant, poste occupé dans la compagnie)

à faire cette attestation.

Signature \_\_\_\_\_ Date APR 29/94



Ministry of  
Northern Development  
and Mines

Ministère du  
Développement du Nord  
et des mines

**Statement of Costs  
for Assessment Credit**

**État des coûts aux fins  
du crédit d'évaluation**

**Mining Act/Loi sur les mines**

Transaction No./N° de transaction

W7420 0020

Personal information collected on this form is obtained under the authority of the **Mining Act**. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la **Loi sur les mines** et serviront à tenir à jour un registre des concessions minières. Adresser toute question sur la collecte de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4<sup>e</sup> étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

**1. Direct Costs/Coûts directs**

Type	Description	Amount Montant	Totals Total global
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<b>Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert- conseil</b>	Type 7,665 feet Drilling	128,260	
	Consulting	14,257	
	Services by Lakeland	15,864	158381
<b>Supplies Used Fournitures utilisées</b>	Type		
<b>Equipment Rental Location de matériel</b>	Type		
<b>Total Direct Costs Total des coûts directs</b>			<b>164,035</b>

**2. Indirect Costs/Coûts indirects**

**\*\* Note:** When claiming Rehabilitation work Indirect costs are not allowable as assessment work.  
Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Type	Description	Amount Montant	Totals Total global
<b>Transportation Transport</b>	Type Kay Air	2,363	
	Assays	1,570	
			3,933
<b>Food and Lodging Nourriture et hébergement</b>			
<b>Mobilization and Demobilization Mobilisation et démobilisation</b>			
<b>Sub Total of Indirect Costs Total partiel des coûts indirects</b>			<b>3,933</b>
<b>Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)</b>			<b>3,933</b>
<b>Total Value of Assessment Credit (Total of Direct and Allowable indirect costs)</b>		<b>Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)</b>	<b>167,968</b>

**Note:** The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

**Note :** Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

**Filing Discounts**

1. Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
2. Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

Total Value of Assessment Credit	Total Assessment Claimed
	× 0.50 =

**Remises pour dépôt**

1. Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
2. Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calculs ci-dessous.

Valeur totale du crédit d'évaluation	Évaluation totale demandée
	× 0,50 =

**Certification Verifying Statement of Costs**

I hereby certify:  
that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown on the accompanying Report of Work form.

that as \_\_\_\_\_ I am authorized  
(Recorded Holder, Agent, Position in Company)

to make this certification

**Attestation de l'état des coûts**

J'atteste par la présente :  
que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

Et qu'à titre de \_\_\_\_\_ je suis autorisé  
(titulaire enregistré, représentant, poste occupé dans la compagnie)

à faire cette attestation

Signature \_\_\_\_\_ Date MAY 24 1991

MITCHELL TWP.

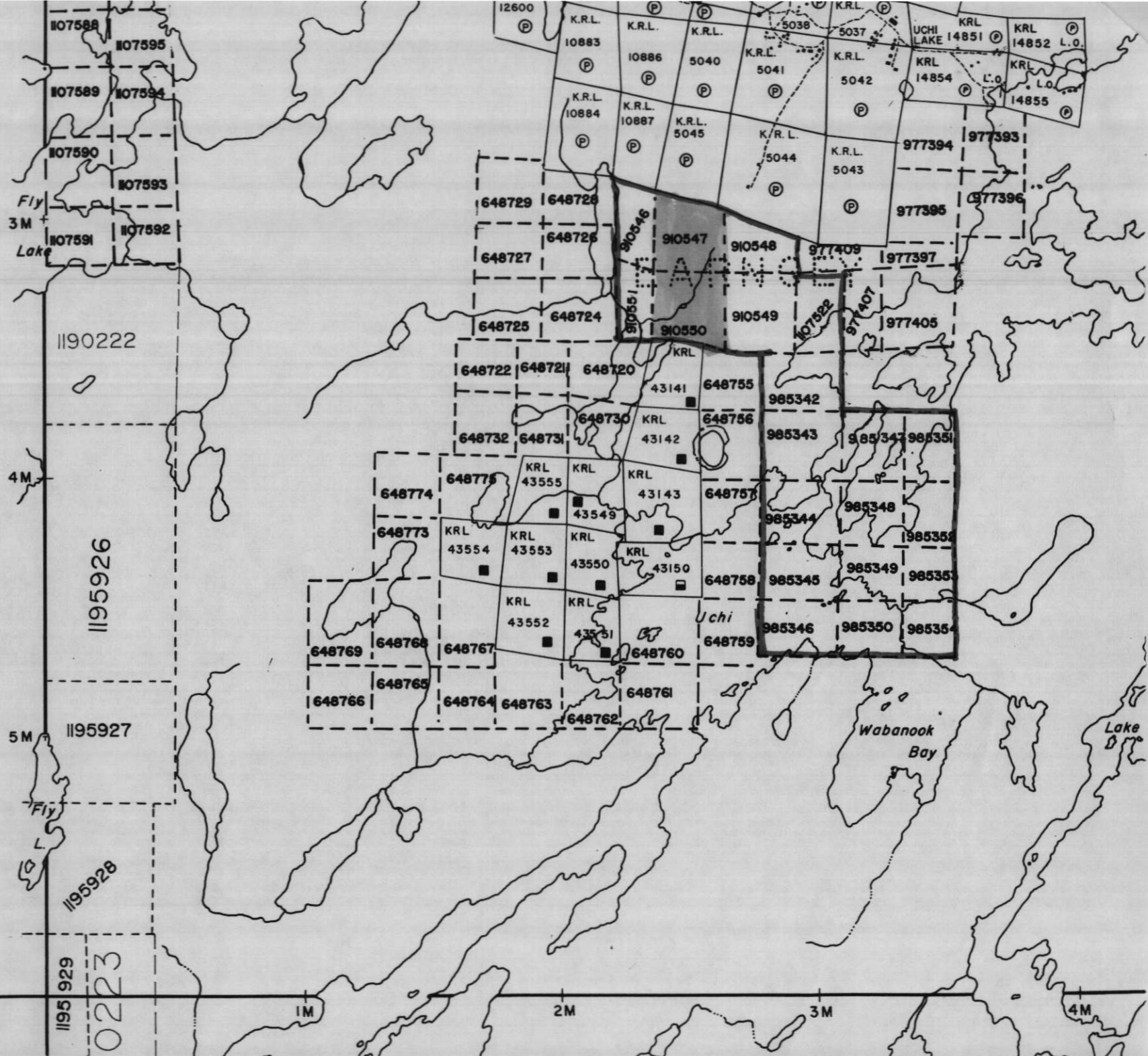
R STATUS REFER TO TWP PLAN

*apfo*

Uchi Lake /  
Earngy Twp.

G. 1901

Apr. 11/94



FOREST ACTIVITY INFORMATION  
THIS TOWNSHIP/AREA FALLS WITHIN THE  
TROUT LAKE FOREST

AND MAY BE SUBJECT TO FORESTRY OPERATIONS  
THE M.N.R. UNIT FORESTER FOR THIS AREA CAN BE  
CONTACTED AT:  
P.O. BOX 5003  
RED LAKE, ONTARIO P0V 2M0  
(807) 727-2263

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

- M.R.O. - MINING RIGHTS ONLY
- S.R.O. - SURFACE RIGHTS ONLY
- M.+S. - MINING AND SURFACE RIGHTS

Description Order No. Date Disposition File

ONT. HYDRO LINE FILE 11940-100' WIDE

LEGEND

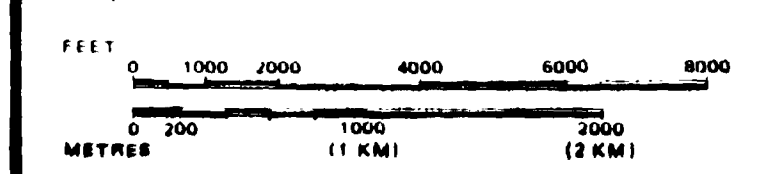
- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES:
  - TOWNSHIPS, BASE LINES, ETC.
  - LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES:
  - LOT LINES
  - PARCEL BOUNDARY
  - MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN
- RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

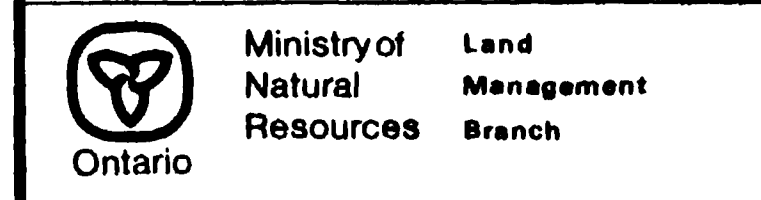
TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" SURFACE RIGHTS ONLY	○
" MINING RIGHTS ONLY	◐
LEASE, SURFACE & MINING RIGHTS	■
" SURFACE RIGHTS ONLY	◑
" MINING RIGHTS ONLY	◒
LICENCE OF OCCUPATION	▼
ORDER IN COUNCIL	OC
RESERVATION	○
CANCELLED	○
SAND & GRAVEL	○

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1912, VESTED IN ORIGINAL PATENTEES BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 83, SUBSEC. 1

SCALE: 1 INCH = 40 CHAINS



AREA  
**UCHI LAKE & EARNGEY TWP.**  
M.N.R. ADMINISTRATIVE DISTRICT  
RED LAKE  
MINING DIVISION  
RED LAKE  
LAND TITLES / REGISTRY DIVISION  
KENORA / PATRICIA



Date FEB. 1983  
Number  
**G-1901**

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO START MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

