



41P11SW0266 2.2638 ASQUITH

010

Geological Mapping
Asquith Twp.

1978.

MES D. MCCANNELL, P.ENG.

CONSULTING GEOLOGIST

TELEPHONE 363-8995
326 ADELAIDE ST. W.
TORONTO, ONTARIO, CANADA
M5V 1R3

January 10, 1978

The Directors
Kayak Explorations Limited
Suite 1014
111 Richmond Street West
Toronto, Ontario

RECEIVED

MAR 30 1978

PROJECTS UNIT

Gentlemen:

The following is a review of the work completed to date by your Company on a group of fourteen mining claims located in Asquith Township, Shiningtree area, Ontario. Immediately prior to the acquisition of this claims group by Kayak Explorations Limited, a program of geophysical surveying was conducted over the ground by the vendors. This work consisted of cutting east-west picket lines at 400 foot intervals and conducting electromagnetic and magnetometer surveys along these lines.

A program of diamond drilling was commenced in the spring of 1976 to investigate some known structural conditions on the property. During the period April 25th to August 6th, 1976, ten short holes were put down for a total drilled footage of 1,129 feet. These holes were localized in three areas of the property and were directed to investigate an EM anomaly in the southeast corner of the claims group, a quartz vein on which extensive trenching had been carried out several years ago in the central part and the area of a shallow shaft and trenching in the northeast corner of the property. Quartz veining was encountered in several of the holes but the only assay of any consequence, was 1.28% copper for a core length of 8.5 feet in one of the holes drilled to check the EM anomaly in the southeast corner of the claims group.

The history of some of the claims included in this group of fourteen claims, dates back to the early part of this century when numerous spectacular gold discoveries in the area attracted considerable mining exploration activity. It was reported that 250 ounces of gold were recovered from a rich pocket associated with the quartz veining in claim 393515 in the central part of the present group. Gold was obviously associated with the quartz veining in the northeast corner of the property as this is undoubtedly what prompted the sinking of the shaft at this location. The dump material from the shaft contains a considerable amount of quartz.

In November 1977, the entire claims group was geologically mapped using the east-west picket lines cut in 1975 as control. The property was found to be largely underlain by basic volcanic

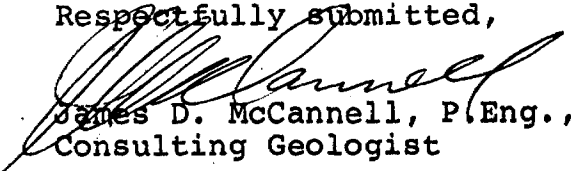
formations with some more acid types including rhyolite and trachyte. These rocks of volcanic origin have been fairly extensively intruded by gabbro and diabase. The gabbros appear to be sills interbanded with the volcanics but the diabase form very definite west of north striking dikes which are usually rich in olivine and frequently carry finely disseminated pyrite and pyrrhotite with some chalcopyrite.

The main feature brought out by the geological mapping, is the definite east-west foliation in the underlying formations. A strong shear zone was noted striking across the property through the south central part. This shearing is exposed in two small outcrops and would underly a large swamp or marsh in the southeast quarter of the claims group. Two strong north-south topographic lineaments are present both of which are probably controlled by underlying geological features. One of these is Jesse James Lake at the west boundary of the claims group and the other is Teapot Creek which extends through the east-central part of the property.

The geophysical survey carried out in 1975, was run east-west which was considered normal to the regional structures in the area. These lines however, paralleled the foliation on this property and the large shear zone picked up by the geological mapping. It is of interest to note also that a conductor does exist along the lineament of Teapot Creek, a factor that was not previously noted.

The snow conditions that developed immediately the mapping work was completed in November 1977, did not permit some follow-up stripping and prospecting that appears to be definitely warranted. It is now recommended that this work be completed in the coming field season. It is especially suggested that the large east-west shear zone be examined in more detail and some attempt should be made to expose rocks somewhere along the lineament occupied by Teapot Creek. This could be especially interesting in areas where this north-south structure is intersected by the diabase or gabbro. An estimated cost of this additional work is One Thousand Five Hundred Dollars.

Respectfully submitted,


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

Toronto, Ontario
January 10, 1978



41P11SW0266 2.2638 ASQUITH

900

GEOPHYSICAL - GEOLOGICAL TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey Geological Mapping
 Township or Area Asquith Twp.
 Claim holder(s) Kayak Explorations Ltd.
1014-111 Richmond St. W. Toronto
 Author of Report J.D. McCannell
 Address 326 Adelaide St. W., Toronto, Ont.
 Covering Dates of Survey Nov. 15 - Dec. 16, 1977
 (linecutting to office)
 Total Miles of Line cut used existing lines

MINING CLAIMS TRAVERSED List numerically

(prefix)	(number)
	393501
	393502
	393503
	393504
	393505
	393506
	393509
	393510
	393511
	393512
	393514
	393515
	393517
	393518
TOTAL CLAIMS <u>14</u>	

SPECIAL CREDITS REQUESTED	DAYS per claim
ENTIRE line cutting survey.	40 days (includes line cutting) for first survey.
ENTIRE additional same ground.	20 days for each additional survey using same ground.
Geophysical	
- Electromagnetic	
- Magnetometer	
- Radiometric	
- Other	
Geological	20
Geochemical	

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)
 Magnetometer Electromagnetic Radiometric
 (enter days per claim)
 DATE: March 29/78 SIGNATURE: J.D. McCannell
 Author of Report

PROJECT SECTION L.D.
 Res. Geol. 63.2502 Qualifications
 Previous surveys _____
 Checked by _____ date _____
 GEOLOGICAL BRANCH _____
 Approved by _____ date _____
 GEOLOGICAL BRANCH _____
 Approved by _____ date _____

OFFICE USE ONLY

If space insufficient, attach list

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS

Number of Stations _____ Number of Readings _____

Station interval _____

Line spacing _____

Profile scale or Contour intervals _____
(specify for each type of survey)

MAGNETIC

Instrument _____

Accuracy Scale constant _____

Diurnal correction method _____

Base station location _____

ELECTROMAGNETIC

Instrument _____

Coil configuration _____

Coil separation _____

Accuracy _____

Method: Fixed transmitter Shoot back In line Parallel line

Frequency _____
(specify V.L.F. station)

Parameter measured _____

GRAVITY

Instrument _____

Scale constant _____

Correction made _____

Base station value and location _____

Elevation accuracy _____

INDUCED POLARIZATION - RESISTIVITY

Instrument _____

Time domain _____ Frequency domain _____

Frequency Range _____

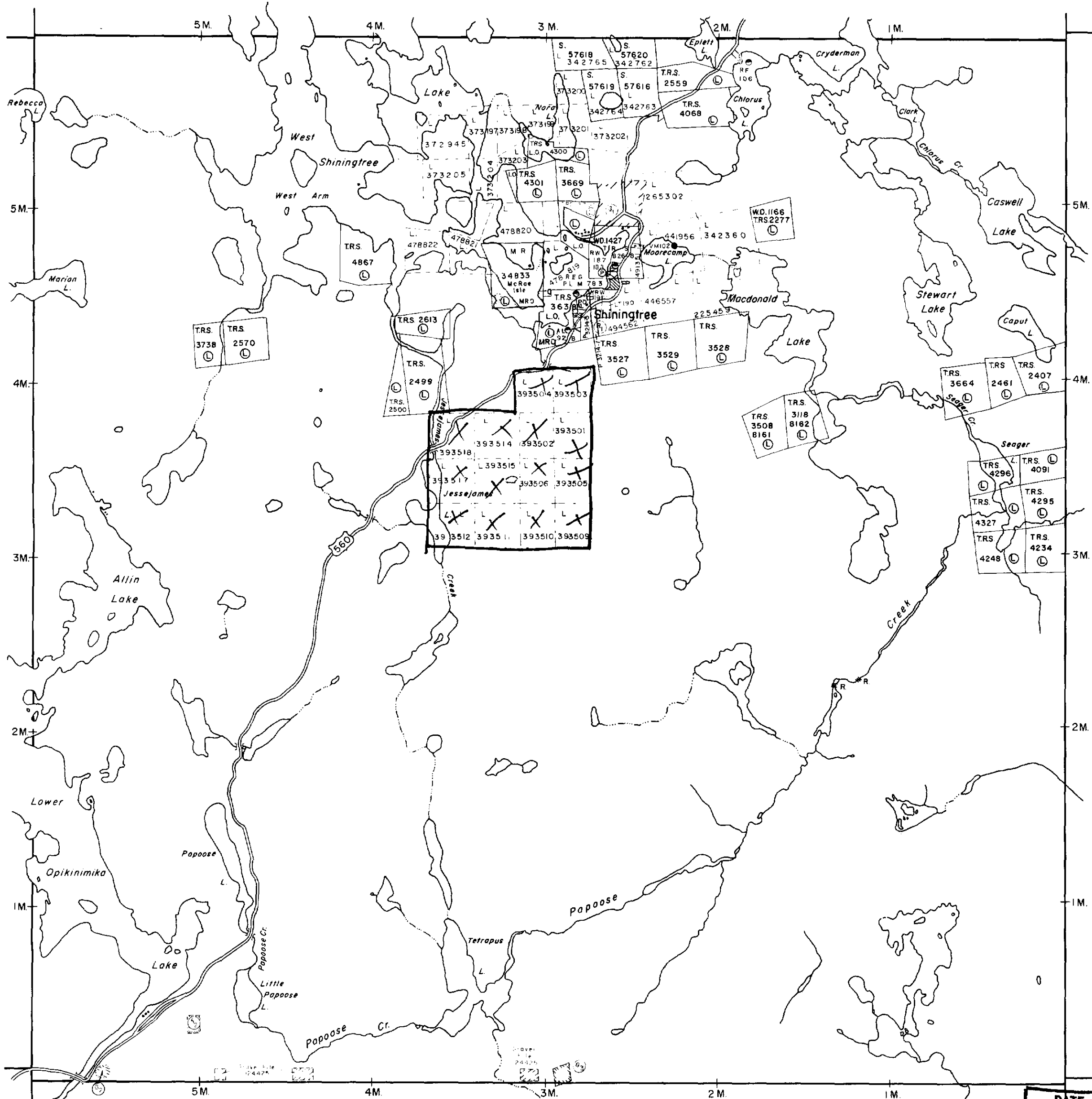
Power _____

Electrode array _____

Electrode spacing _____

Type of electrode _____

Churchill Twp. - M.719



Miramichi Twp. - M.865

Fawcett Twp. - M.803

Sheard Twp. - M.1107

THE TOWNSHIP
OF
2.2638
ASQUITH

DISTRICT OF
SUDBURY

LARDER LAKE
MINING DIVISION

SCALE: 1-INCH=40 CHAINS

LEGEND

PATENTED LAND	● or ⊕
CROWN LAND SALE	C.S.
LEASES	Ⓛ
LOCATED LAND	Loc.
LICENSE OF OCCUPATION	L.O.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
ROADS	—
IMPROVED ROADS	—
KING'S HIGHWAYS	—
RAILWAYS	—
POWER LINES	—
MARSH OR MUSKEG	—
MINES	ⓧ
CANCELLED	C.
PATENTED FOR S. R. O.	⊙

NOTES

400' Surface Rights Reservation along the shores of all lakes and rivers

SAND and GRAVEL	RESERVES
① MTC Pit 489	① MNR SRO Reserve File 163003
② MTC Gravel Pit No. 214	
③ gravel Pit File 24425	

Areas withdrawn from staking under Section 43 of the Mining Act, R.S.O. 1970

Order No.	File	Date	Disposition
①	W.66/76	1885/7	19/11/76 S.R.O.

DATE OF ISSUE
MAR 31 1978
SURVEYS AND MAPPING
BRANCH

PLAN NO. - **M.637**

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH



LEGEND

ARCHEAN	PROTEROZOIC	PHANEROZOIC	Eon
	APHEBIAN	CENOZOIC	Era
		QUATERNARY	Period
KEEWATIN		Pleistocene/Recent	
Volcanics			
	Dikes		Surficial

- ALLUVIUM, SWAMP DEPOSITS, SOIL
- GLACIAL DRIFT
- 5 GABBRO, DIABASE
- 4 GABBRO (sills)
- 3 TRACHYTE
- 2 RHYOLITE
- ANDESITE

SYMBOLS

- STRIKE AND DIP OF SCHISTOCITY
- STRIKE AND DIP OF VEIN
- SHEARING
- OUTCROP WITH CONTACT, DEFINED, ASSUMED
- FAULT
- TRENCH
- KETTLE
- SLOPE
- V-2 VEIN with WIDTH
- TOPOGRAPHIC BOUNDARY
- SWAMP, BOG, WET PLACES
- STREAM
- INTERMITTENT STREAM, DRAINAGE COURSE
- TRACTOR, SKIDOO, ROAD
- BUILDING, RUINS
- CLAIM POST
- DIAMOND DRILL HOLE (K-5 = Kayak hole)
- BEAVER DAM



INDEX MAP - SCALE: 1" = 28 MI.



2.2638

GEOLOGICAL PLAN	
KAYAK EXPLORATIONS LIMITED	
JESSE JAMES PROPERTY	
ASQUITH TOWNSHIP	
DISTRICT OF SUDBURY	
SHININGTREE AREA, ONTARIO	
SCALE: 1 IN. = 200 FT.	DATE: NOVEMBER, 1977
RES. GEOL: H. DOWHALUK	CONS. GEOL: J.D. McCANNELL

