



42A01NE2029 2.20274

BERNHARDT

010

**Assessment  
Diamond Drill Report  
GOODFISH LAKE PROPERTY  
F. T. O'Connor (OPAP 98 - 147)  
Mining Claim L 1211524 et al.  
Townships of Bernhardt and Morrisette  
District of Timiskaming  
Larder Lake Mining Division**

2.20274

**Ontario Prospector's Assistance Program  
F. T. O'Connor OP 98 - 147  
Diamond Drilling Report  
Goodfish Lake Property**

**Mining Claim L 1202867 et al.  
Townships of Bernhardt and Morrisette  
District of Timiskaming  
Larder Lake Mining Division  
NTS 42A/SE**

**Submitted By:  
F. T. O'Connor**

**Prepared By:  
Dave Gamble  
Dave Gamble Geoservices Inc.**

**December 1998**



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## **INTRODUCTION**

The focus of attention on this property is centered on a shear related pyritic gold showing discovered during the 1995 exploration program.

This report contains the results of a one hole diamond drilling program conducted with the help of the Ontario Prospector's Assistance Program, and carried out on the Goodfish Lake Property of F. T. O'Connor during 1998. The drilling took place during the period October 25th - 29th, 1998. The purpose was to test an Induced Polarization target generated during the 1996 field season.

## **PROPERTY OWNERSHIP:**

The following seven (7) mining claims in Bernhardt Township L 1202760, L 1202867, L 1211524, L 1211525, L 1211969, L 1217738, L 1217739, and one (1) mining claim in Morrisette Township L 1211970 make up the Goodfish Lake Property. This property is comprised of a total of eight mining claims and consists of twenty-one (21) units and is held 100% by Frank T. O'Connor of 12 Toburn Drive, Box 834, Kirkland Lake, Ontario, P2N 3K4.

## **PROPERTY LOCATION AND DESCRIPTION**

**Property Name: Goodfish Lake Property**

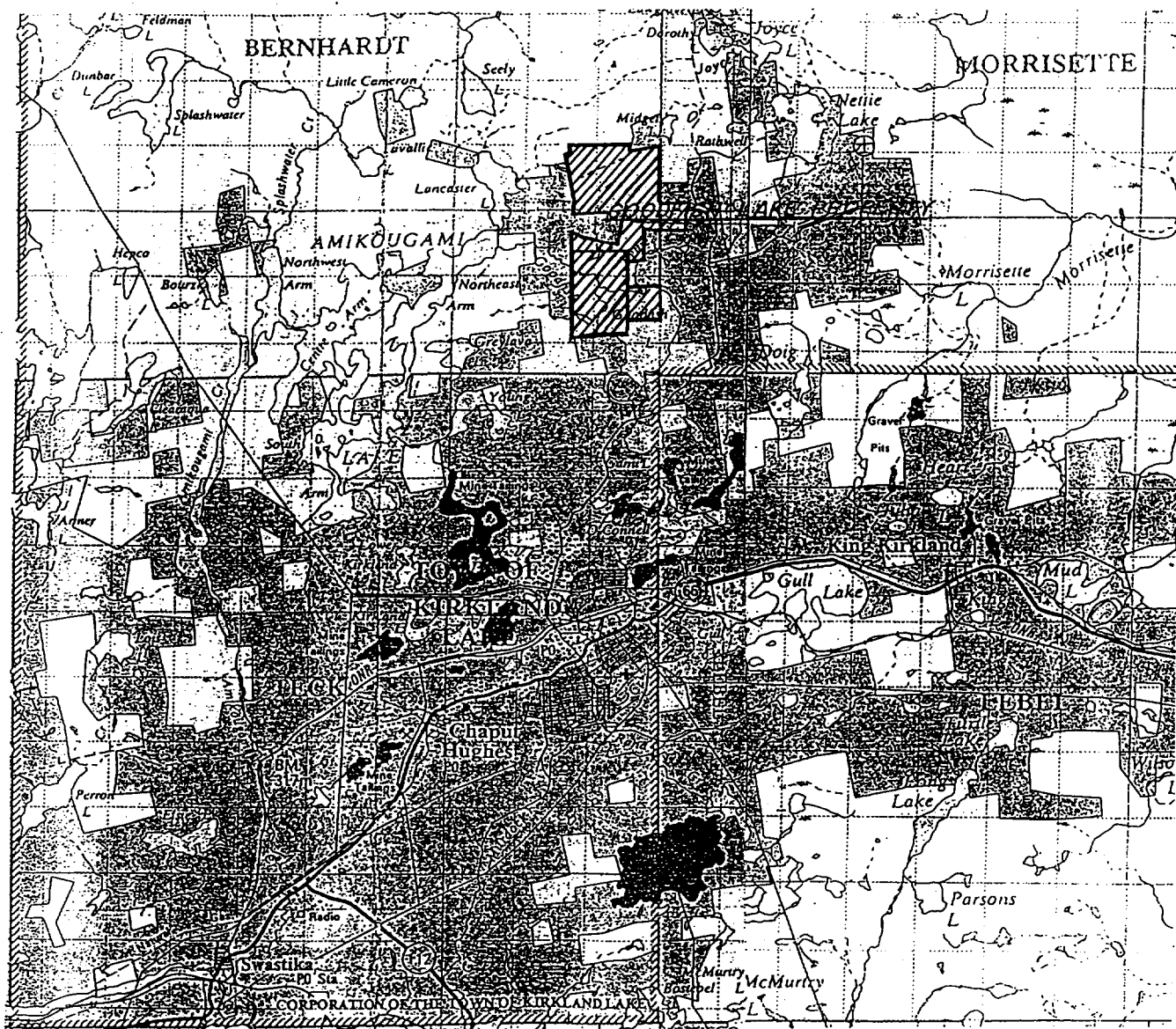
**Larder Lake Mining Division, Kirkland Lake Area**  
**Bernhardt Township and Morrisette Township, District of Timiskaming**  
**NTS Map Sheet: 42A/SE Kirkland Lake**  
**32D/SW Larder Lake**  
**Claim Map Sheet : Bernhardt G - 3207**  
**Morrisette G - 3217**

**Claim Numbers:**

**Bernhardt Twp: L 1202760 (1 unit), L 1202867 (4), L 1211524 (2),**  
**L 1211525 (1), L 1211969 (1), L 1217738 (2), L 1217739 (9),**  
**Morrisette Twp: L 1211970 (1)**

**Latitude and Longitude of Goodfish Lake Property**

**northeast corner (L 1202867): UTM Coordinates: 572 500 mE**  
**5 339 375 mN**



1:100 000

42A/SE

32D/SW

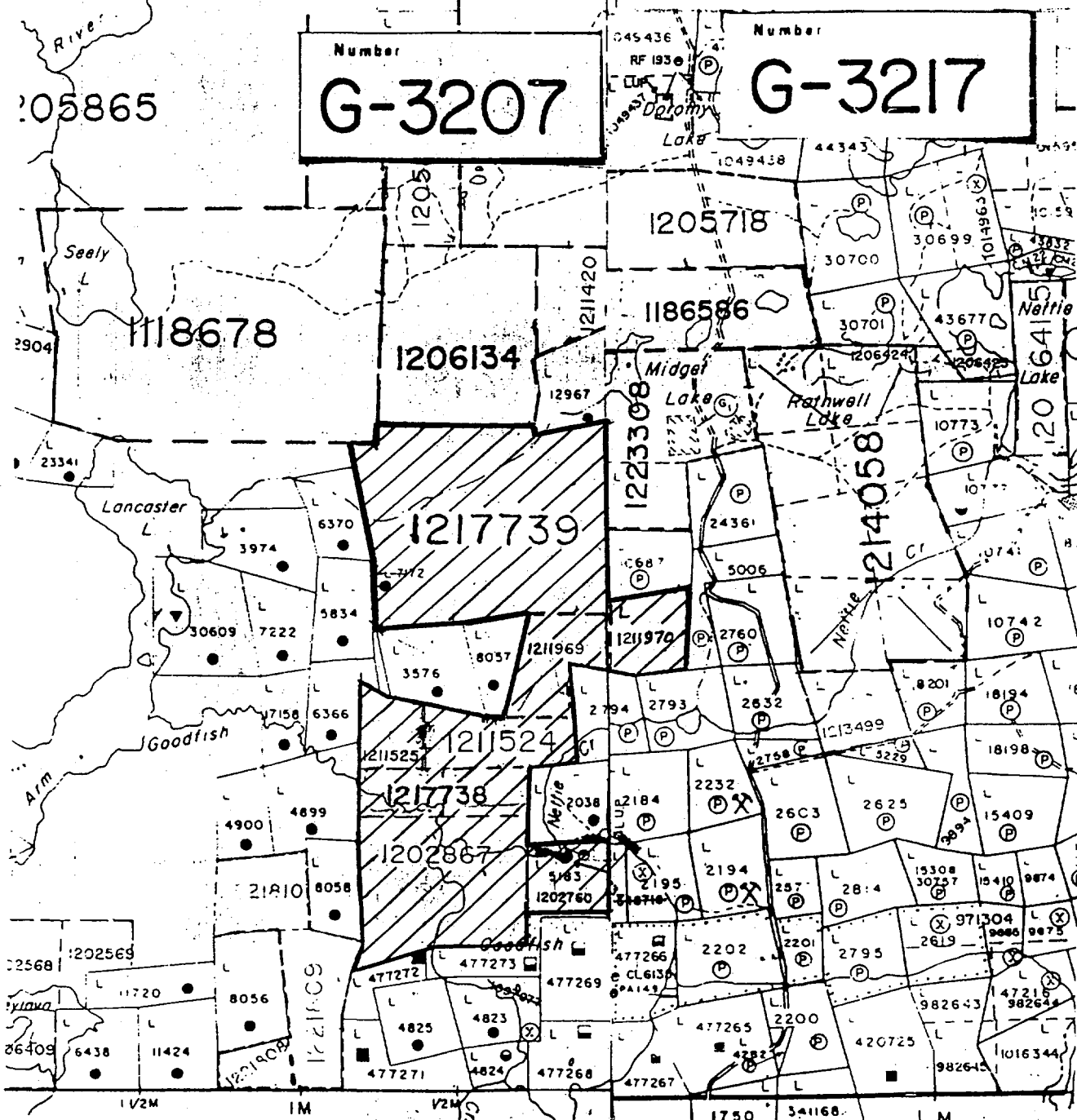
DAVE GAMBLE GEOSERVICES INC	
<b>LOCATION MAP</b> <b>GOODFISH LAKE PROPERTY of</b> <b>F.T. O'Connor</b> <b>Bernhardt Township</b>	
Date Nov. 1998	N.T.S. 42A/SE and 32D/SW
Scale 1:100 000	Drawn/Reference Fig. 1

# BERNHARDT

M.N.R. ADMINISTRATIVE DISTRICT


TOWNSHIP

# MORRISETTE



SCALE: 1 inch = 1/2 mile

M.N.R. ADMINISTRATIVE DISTRICT  
**KIRKLAND LAKE**  
 MINING DIVISION  
 LARDER LAKE  
 LAND TITLES / REGISTRY DIVISION  
 TIMISKAMING



Ministry of Natural Resources Ontario | Land Management Branch

Date: JANUARY 1985 | Number: **G-3207**

**DAVE GAMBLE**  
**GEO-SERVICES INC**

**CLAIM LOCATION MAP**  
 Goodfish Lake Property of  
**F.T. O'Connor**  
 Township of Bernhardt

Date: **Nov. 1996** | N.T.S. **42A/SE**

Scale: | Drawn/Reference: **Fig. 2**

**ACCESS:**

The Goodfish Lake Property is located approximately 5 kilometers due north of Kirkland Lake, Ontario, and in southeast quadrant of Bernhardt Township and southwest quadrant of Morrisette Township. The property is comprised of eight mining claims consisting of twenty-one units and includes the extreme northwest portion of Goodfish Lake. (See Property Location Map Figure 1, and Claim Map Figure 2.) Access can be made by water across Goodfish Lake by taking a boat or canoe directly onto the property. To access the north half of the property take Goodfish Road out of Kirkland Lake towards the Kirkland Lake airport for 6.0 km to where it meets Harvey Drive leading off to the west. Follow Harvey Drive for 1.0 km to the west, continue past Bernhardt Drive, to where the road ends at the last residence near the east boundary of the property. Follow a path leading north over a rugged outcrop to where northwest trending grid lines have been established on the property.

The northern part of the property is also accessible west from the Dorothy / Lawgrave Lakes access road at a point approximately 1 km north of the Kirkland Lake airport turnoff.

**REGIONAL GEOLOGY:**

The Goodfish Lake Property is predominantly underlain by a series of Precambrian mafic volcanics of the Kinojevis Group. The Kinojevis Group forms part of the southern limb of a regional synclinal structure in this area of the western Abitibi Greenstone belt. (See Fig. 3). The Kinojevis volcanic assemblage generally consists of Mg - rich and Fe - rich tholeiitic basalt lavas, although minor lenses of tholeiitic dacite and rhyolite may occur towards the top of the group. Minor interflow sedimentary horizons also occur in this volcanic assemblage. Overlying the Kinojevis to the north of property, is the predominantly calc-alkaline volcanic assemblage of the Blake River group that occupies the core of the regional synclinal structure. The Kinojevis volcanics have been intruded by tholeiitic gabbroic sills, syenite and quartz-feldspar porphyry (QFP) dykes and plugs, and finally by late diabase dykes.

**PROPERTY GEOLOGY:**

In "Geology of Bernhardt and Morrisette Townships", Geological Report # 84 by R. J. Rupert and H. L. Lovell, 1970, Map No 2193, the O'Connor Goodfish Lake Property in Bernhardt Township is shown to be underlain by massive and pillowed mafic basalt volcanic flows that are striking northeast, and dipping to the northwest. Minor agglomeritic and porphyritic basalt are also present in the area. The stratigraphy is facing northwest as determined from the pillow facing



KG - Kinojevis Group

BR - Blake River Group

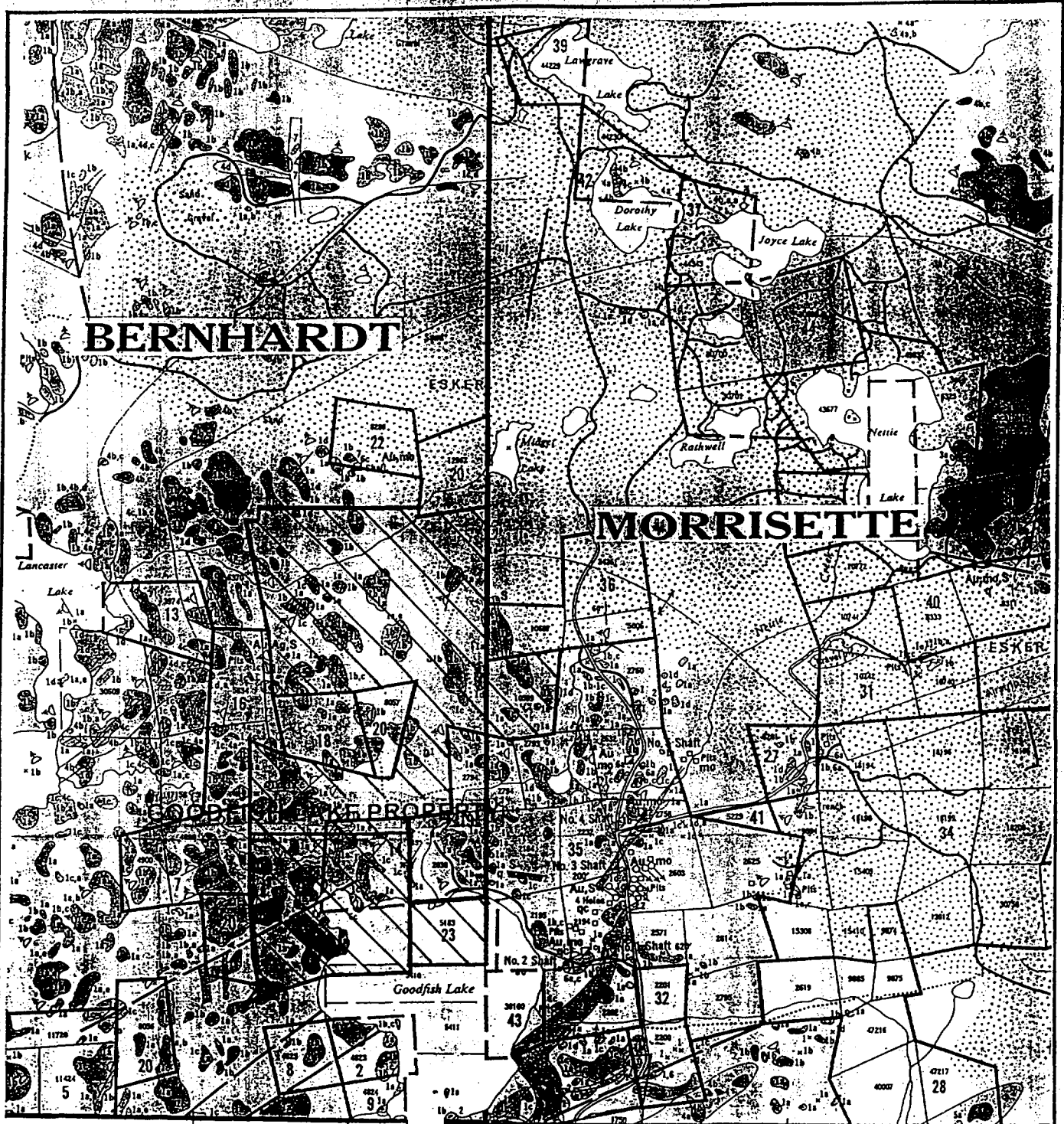
For Complete Legend refer to OGS Map # 2484, 1984

X GOODFISH LAKE PROPERTY

From OGS Map # 2484, 1984

<b>DAVE GAMBLE GEOSERVICES INC</b>	
<b>Regional Geology and Lithostratigraphic Map of the Abitibi Sub Province</b>	
Date <b>Nov. 1998</b>	N.T.S. <b>42A/SE and 32D/SW</b>
Scale <b>1:500 000</b>	Drawn/Reference <b>Fig. 3</b>





1" = 1/2 mile

42A/SE

32D/SW

DAVE GAMBLE  
GEOSERVICES INC

Geology of Bernhardt  
and  
Morrisette Townships

Date	Nov. 1998	N.T.S.	42A/SE 32D/SW
Scale		Drawn/Reference	Fig. 4

From Map # 2193 after Rupert and Lovell, 1970

determinations. A small quartz-feldspar porphyry dyke is located on the west shore of Goodfish Lake in the west central part of the property. A northeast trending fault is also indicated by Rupert and Lovell located transecting the property near the northeast end of Goodfish Lake. (See Figure 4.)

### **PREVIOUS WORK:**

In 1984 Nova Beaucage Mines Limited held a group of claims which included the present O'Connor Goodfish Lake property, and the Kirana Gold Mines property to the south in Teck Township. An exploration program included gridding, ground geophysical surveys that consisted of total field magnetic and VLF EM surveys. The VLF EM survey identified several weak to moderate conductors striking northeast on the property. From detailed geological mapping at 1" = 400' on grid lines at 400 foot centres by D. Constable, carbonate and sericite alteration was described to lie proximal to and appear to flank the VLF conductors. In addition, interflow sedimentary horizons consisting of greywacke and argillaceous material were also mapped on the property. A number of grab samples were assayed for gold with the best value of 40 ppb Au taken from an old trench.

In 1988, Minnova Inc. held the same property as Nova Beaucage Mines Ltd. Minnova completed only limited work on a small part of the present O'Connor property that included some gridding and ground magnetic surveying.

The Goodfish Mine Property, located 3200 feet east, and the Kirana Mine Property, located 3500 feet southeast of the O'Connor property, both carry gold mineralization hosted in the northeast trending structures in mafic volcanics that lie within or proximal to quartz-feldspar porphyry dyke intrusions. The Goodfish Mine with a 620 foot shaft and 4400 feet of lateral development report on the 300 foot level a narrow three foot wide ore shoot containing 18 tons of vertical foot with a cut off grade of 0.50 oz./ton. Assays from the Kirana property range from 0.97 to 7.26 oz/ton Au over 7 - 10 " narrow widths. Ore reserves are reported to be 50 000 tons at a grade of 0.4 oz/ton Au.

A 1995 surface exploration program by F.T. O'Connor of overburden stripping and cleaning the exposed bedrock was conducted on the Goodfish Lake Property. The one area of significance is designated as stripped Area A on the O'Connor Goodfish Lake Property during the autumn of 1995, see Fig. 5, 1995 - Sample Location Map 1:200 (reduced) showing location of 1995 stripped area A.

Stripped Area A is located in the northeast quarter, south of the north boundary of mining claim L 1202867. A stripped area of 50 metres by 20 metres is centered on grid co-ordinates L 44+00 ft E/12+30'N on the old grid system and

**STRIPPED AREA A**

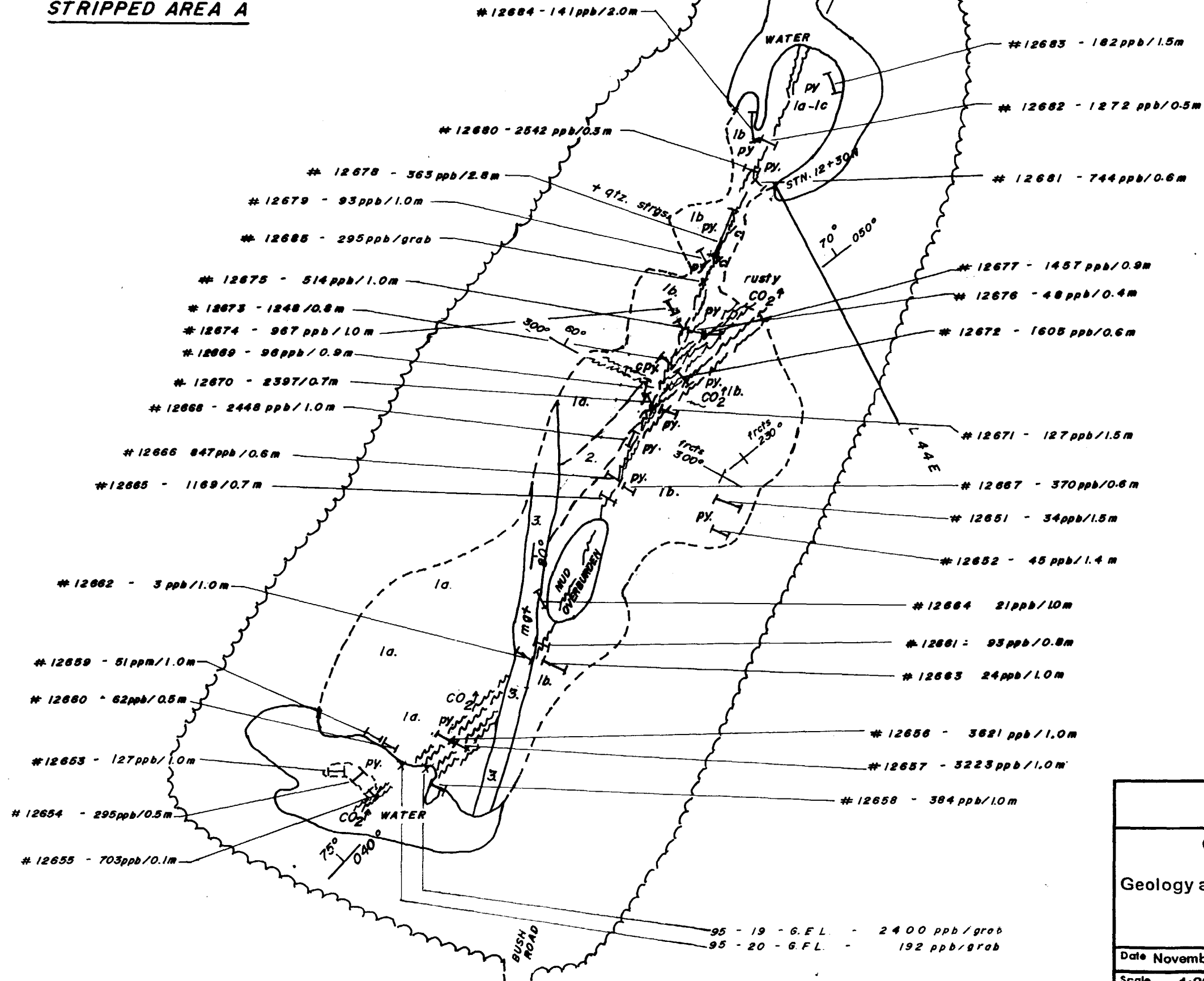
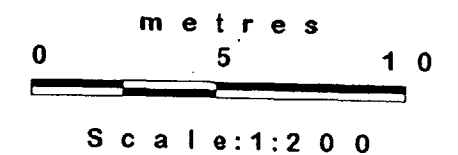
**LEGEND**

**GEOLOGY**

- 3. FELSITE DYKE (feldspar porphyritic)
- 2. BASALT TUFF BRECCIA
- 1. BASALT FLOW
  - a. coarse grained (gabbroic?)
  - b. fine grained
  - c. feldspar porphyritic

**CO<sub>2</sub>↑ RUSTY CARBONATE ALTERATION**

- py PYRITE
- cpy CHALCOPYRITE
- mgf MAGNETITE
- ~ SHEAR/FAULT ZONE
- GEOLOGICAL CONTACT
- OUTCROP
- FRACTURES/JOINTING
- ~ EDGE OF CLEARED AREA
- ↖ SAMPLE LOCATION
- #12661 SAMPLE NUMBER
- 182ppb/10 ASSAY Au ppb and length (m)



**DAVE GAMBLE  
GEOSERVICES INC**

GOODFISH LAKE PROPERTY of  
F.T. O'Connor  
Geology and Sample Locations of Stripped Area A  
Mining Claim L 1202867  
Township of Bernhardt

Date November, 1995	N.T.S. 42A/SE
Scale 1:200	Drawn/Reference S. Gamble FIG. 5

now centered on L 0 + 00 ft. W/ + 00 ft. S on the 1996 new grid co-ordinate system.

The 1995 exploration program on the O'Connor Goodfish Lake Property, Bernhardt Township discovered two new intersecting narrow shear/fault zones in mafic volcanics that hosts significant pyrite and gold bearing mineralization. The intersecting shear zones, located in stripped Area A, returned a high percentage of anomalous gold values. The 1995 assay results revealed a low of 3 ppb Au with a high of 3621 ppb Au. A total of 29.7% of samples were less than 100 ppb Au while 70.2% were greater than 100 ppb Au. Of significance are the 16 samples or 43.2% of the samples that were greater than 500 ppb Au. Furthermore, of extreme importance were the 11 samples or 29.7% of samples containing greater than 1000 ppb Au, and ultimately the 6 samples or 16.2% of the samples that contain greater than 2000 ppb Au. Values up to 3621 ppb Au over 1.0 metre chip channel samples were recovered. The best continuous interval averaged 3422 ppb Au over 2.0 metres.

The geology of the stripped area A ( taken form the 1995 OPAP final report - see Fig. 5) is underlain by a sequence of coarse grained crystalline basalt flows that are massive gabbroic looking on the west side of the exposed bedrock, unit 1a. A basalt volcanoclastic tuff-breccia with a fine grained granular matrix carrying mafic rock chips and rounded rubble blocks of the coarse basalt gabbroic looking flow material occurs as a narrow wedge-shaped thin horizon near the center of the exposed outcrop, unit 2. On the eastern side and to the north of the exposed outcrop the volcanics tend to be fine to medium grained basalt flows, unit 1b, with minor white 1 mm feldspar porphyritic basalt, unit 1c, a variation occurring only locally. The sequence appears to be striking in a northeast direction approximately the 040 degrees bearing of the narrow basalt tuff-breccia horizon. Dip orientations of lithologic units were not readily observed. Intrusive to and cutting all the volcanic lithologies is a 1m wide felsite dyke striking approximately 010 degrees and steeply dipping 80 degrees to the east. The felsite dyke is buff tan to pinkish grey on the weathered surface. On fresh surfaces the felsite consists of a fine grained crystalline pink ground mass, containing green mafic wisps and white plagioclase 1-2 mm lathes imparting a weak porphyritic texture. This rock is most likely syenite in composition. Finely disseminated magnetite occurs throughout the rock imparting a weak but definite magnetic response of 0.7 to 1.0 c.g.s. units on a Scintrex SM 5 magnetic susceptibility meter.

The volcanic sequence has been structurally disrupted resulting in two main sets of narrow shearing and/or faulting. Accompanying and local to the shearing is rusty carbonate alteration of the basalt, white carbonate stringers, and finely disseminated pyrite. A narrow fault plane with 0.1 to 0.5 m of heavy shearing strikes 025 degrees and dips 68 degrees to the northeast and cuts the length of the exposure. A splay or conjugate shear or fault set that is approximately 2.0m

thick and is a rusty Fe carbonate rubble shear branches off the main structure. On the east (footwall) side of the main structure near the center of the outcrop, this splay shear strikes at 050 degrees and dips 70 degrees to the northeast. At the south end of the outcrop it appears that this splay continues on the hanging wall west side of the main structure over several metres in sheared basalt, where it disappears into the water filled area and overburden to the southwest. The shear orientation here is approximately 040 degrees and dips 75 degrees north. The felsite dyke is a late stage intrusive as it clearly cuts across the structural shearing and faulting fabric, i.e. post tectonic dyke.

Associated weak shearing striking 300 degrees and dipping 60 degrees north and fracture sets at 300 degrees and 230 degrees and steeply dipping (90 degrees) are also present, away from the main structural elements. This shearing and fractures are also rusty and carry fracture related pyrite and disseminated pyrite in the altered basalt. Trace chalcopyrite and malachite staining was observed near the center of the outcrop in this 300 degrees shear set.

Sampling area A in 1995 was confined to the rusty Fe carbonate shearing and faulting and to areas where abundant disseminated pyrite mineralization occurred. Fine grained pyrite is both fracture related and as fine disseminations throughout the altered basalts, up to 10% pyrite locally can be observed. The best continuous 1995 assay results were located on the south end of the outcrop where sample # 12656 and # 12657 returned 3621 ppb Au over 1.0 meter and 3223 ppb Au over 1.0 meter respectively. This represents an average grade of 3422 ppb Au over a continuous 2.0 meter interval.

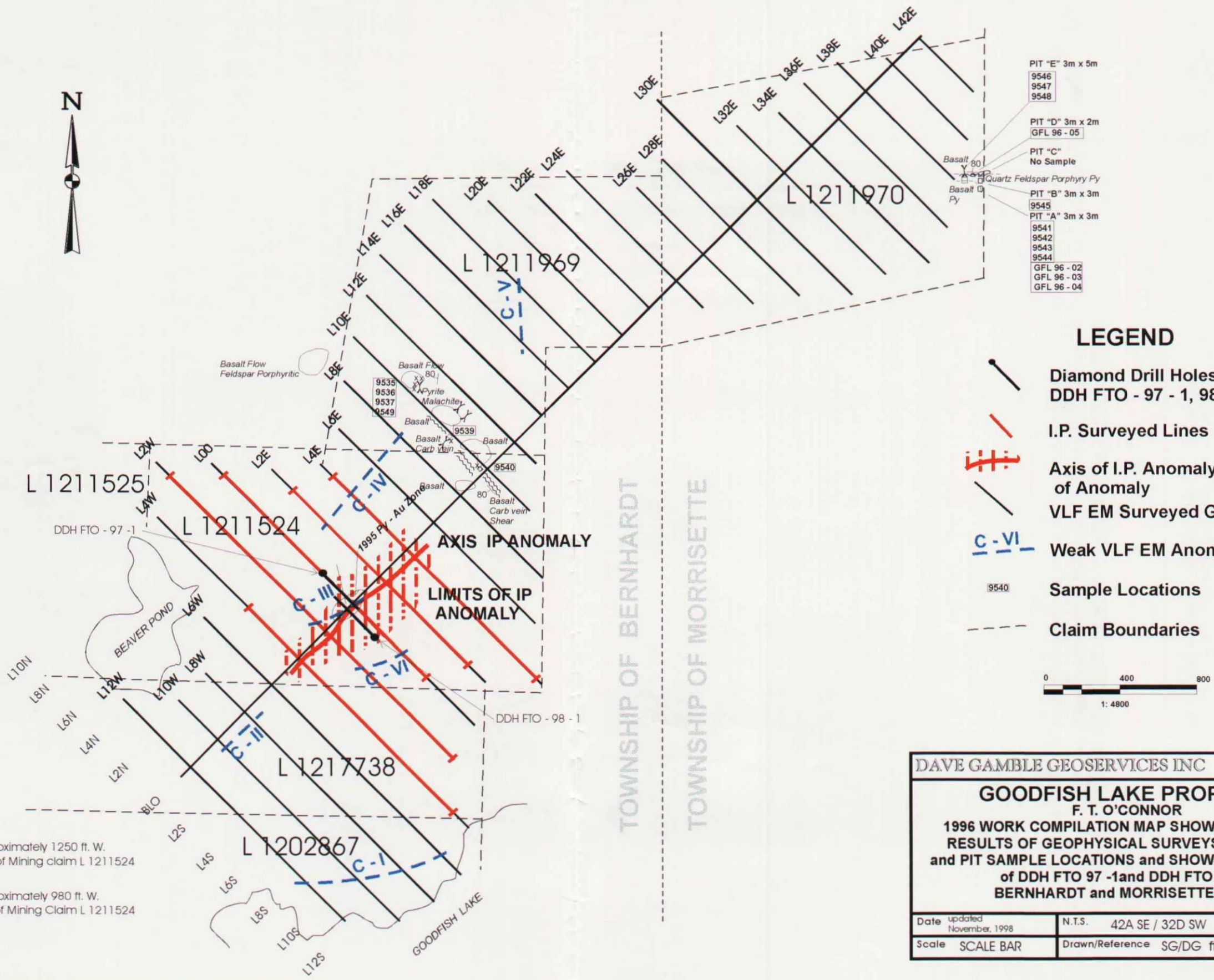
The Au 1995 assay results were very encouraging and clearly show that the shear/fault system and accompanying pyrite mineralization could potentially host a significant gold bearing system.

During September, 1996 through to January, 1997 a surface exploration program consisting of gridding, Induced Polarization Survey, VLF EM survey and limited surface sampling of several old trenches and small pits for gold was carried out under the direction of F. T. O'Connor on the Goodfish Lake Property in Bernhardt and Morrisette Townships.

The objective of the 1996 exploration was to attempt to further define the gold occurrence discovered in the field season of 1995 using Induced Polarization and VLF-EM methods over the showing and along strike.

The supervision of the I P survey, sampling, collating and reporting on all the exploration program activities was completed in a final report dated January, 1997 by Dave Gamble, Dave Gamble Geoservices Inc.





- PIT "E" 3m x 5m
- 9546
- 9547
- 9548
- PIT "D" 3m x 2m
- GFL 96 - 05
- PIT "C"
- No Sample
- PIT "B" 3m x 3m
- 9545
- PIT "A" 3m x 3m
- 9541
- 9542
- 9543
- 9544
- GFL 96 - 02
- GFL 96 - 03
- GFL 96 - 04

**LEGEND**

- Diamond Drill Holes, DDH FTO - 97 - 1, 98 - 1
- I.P. Surveyed Lines
- Axis of I.P. Anomaly and Limits of Anomaly
- VLF EM Surveyed Grid Lines
- Weak VLF EM Anomalies
- Sample Locations
- Claim Boundaries



DDH FTO - 97 - 1 is located approximately 1250 ft. W. and 650 ft. S. of the # 1 Corner of Mining claim L 1211524

DDH FTO - 98 - 1 is located approximately 980 ft. W. and 975 ft. S. of the # 1 corner of Mining Claim L 1211524

DAVE GAMBLE GEOSERVICES INC		
<b>GOODFISH LAKE PROPERTY</b>		
F. T. O'CONNOR		
1996 WORK COMPILATION MAP SHOWING GRID and RESULTS OF GEOPHYSICAL SURVEYS COVERAGE and PIT SAMPLE LOCATIONS and SHOWING LOCATIONS of DDH FTO 97 -1and DDH FTO 98 - 1 BERNHARDT and MORRISSETTE TWPS		
Date updated November, 1998	N.T.S. 42A SE / 32D SW	<b>Fig. 6</b>
Scale SCALE BAR	Drawn/Reference SG/DG ftogrid2.cdr	

COLLAR DDH FTO - 97 - 1  
 @ Asimuth 135 deg. / DIP @ - 62  
 L 0 + 00 ft E / 3 + 50 ft N

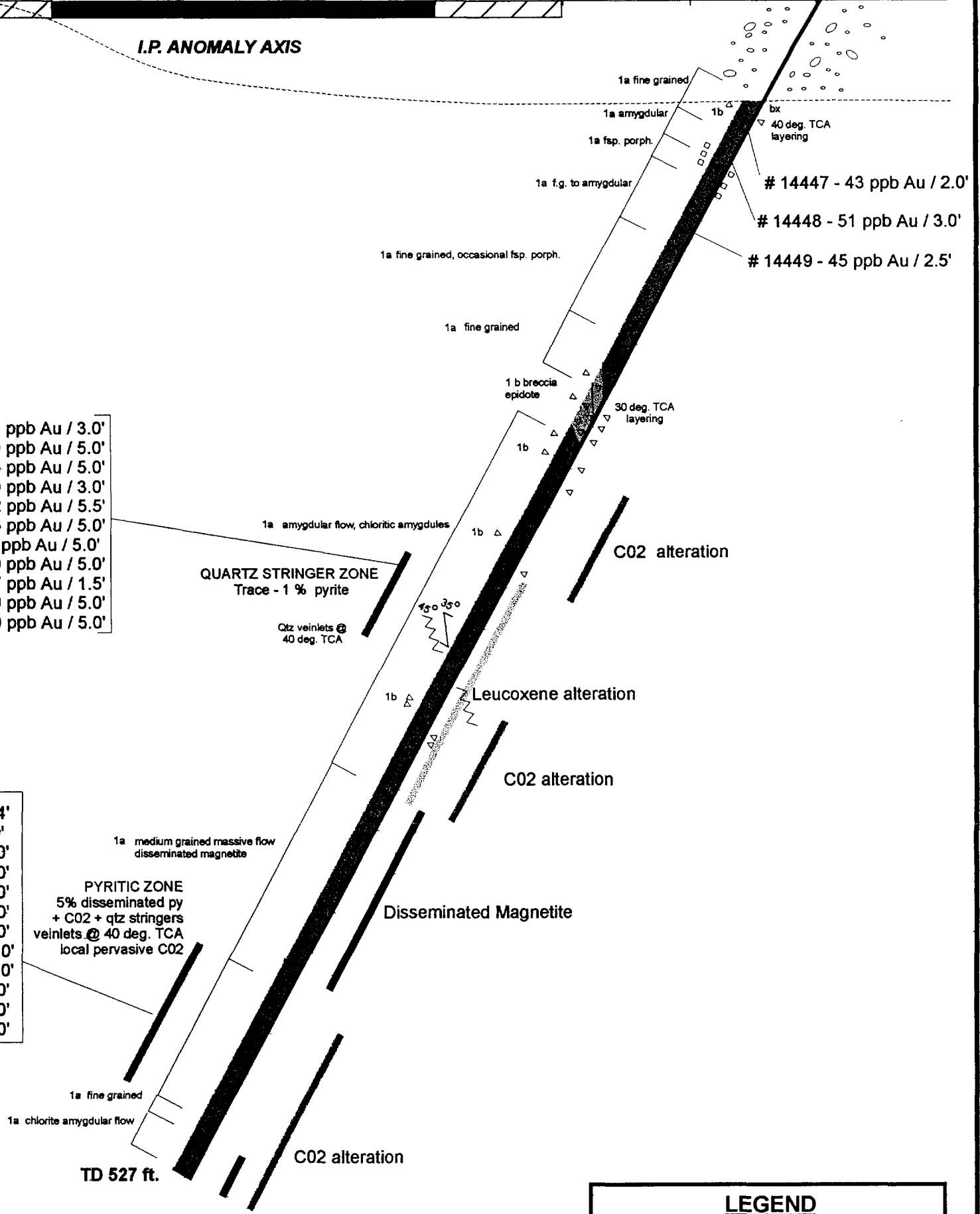
Surface Py - Au showing  
 0 + 00 ft N    0 + 50 ft N    1 + 00 ft N    1 + 50 ft N    2 + 00 ft N    2 + 50 ft N    3 + 00 ft N    3 + 50 ft N

projected surface trace DDH FTO - 97 - 1 along L 0 + 00 ft E

I.P. ANOMALY AXIS

- #14450 - 17 ppb Au / 3.0'
- #14451 - 10 ppb Au / 5.0'
- #14452 - 15 ppb Au / 5.0'
- #14453 - 10 ppb Au / 3.0'
- #14454 - 12 ppb Au / 5.5'
- #14455 - 26 ppb Au / 5.0'
- #14456 - 9 ppb Au / 5.0'
- #14457 - 10 ppb Au / 5.0'
- #14458 - 57 ppb Au / 1.5'
- #14459 - 19 ppb Au / 5.0'
- #14460 - 10 ppb Au / 5.0'

- #14461 - 12 ppb Au / 4.4'
- #14462 - 5 ppb Au / 5.0'
- #14463 - 50 ppb Au / 5.0'
- #14464 - 57 ppb Au / 5.0'
- #14465 - 38 ppb Au / 5.0'
- #14466 - 34 ppb Au / 5.0'
- #14467 - 10 ppb Au / 5.0'
- #14468 - 199 ppb Au / 5.0'
- #14469 - 108 ppb Au / 5.0'
- #14470 - 14 ppb Au / 5.0'
- #14471 - 45 ppb Au / 5.0'
- #14472 - 19 ppb Au / 5.0'



**LEGEND**

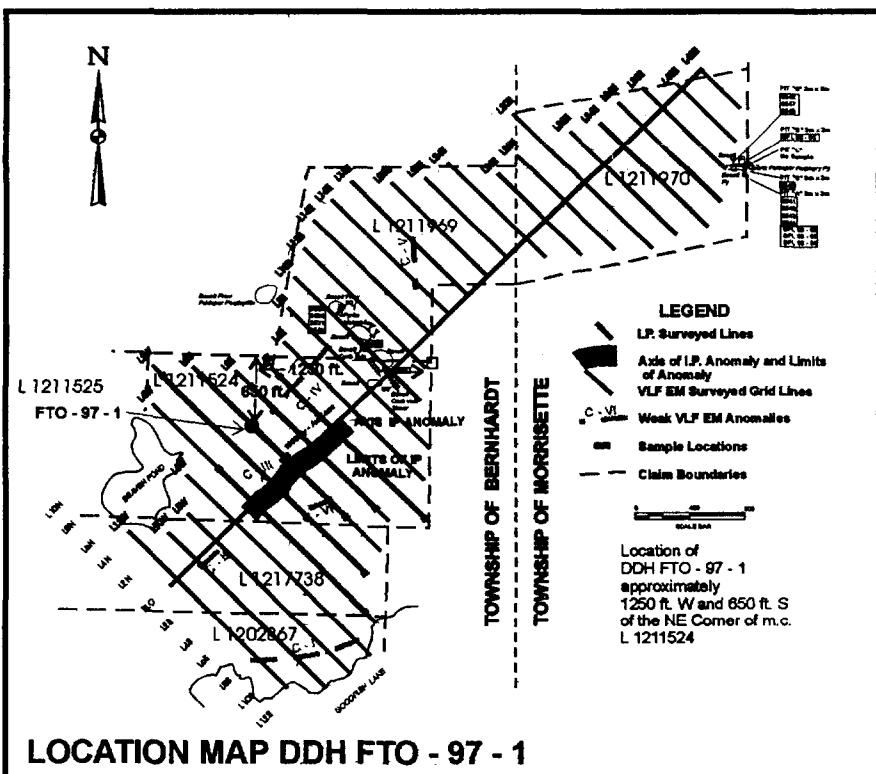
- 1b Basalt Breccia
- 1a Basalt Flow

**TEXTURAL QUALIFIERS**

- amyg amygdular flow
- f.p. feldspar porphyry
- f.g. fine grained flow
- m.g. medium grained flow
- bx Δ breccia



SCALE: 1: 600



LOCATION MAP DDH FTO - 97 - 1

DAVE GAMBLE GEOSERVICES INC

**F.T. O'CONNOR  
 GOODFISH LAKE PROPERTY**

DDH SECTION FTO - 97 - 1  
 L 0 + 00 ft E ( Looking West )  
 Mining Claim L 1211524 BERNHARDT TOWNSHIP

Date: January, 1998	NTS: 42A SE / 32D SW	FIG. D- 1
Scale: 1: 600 ( 50 Scale Imperial)	Drawn Ref: S. G. fto97.cdr	

A weak VLF-EM conductor C - II was also found to be coincidental with the shear/fault zones, and within the I.P. anomalous axis in the area of the surface gold showing. Several other weak VLF-EM conductors C - I, C - III, C - IV, C - V, C - VI, were also recovered at various locations on the property. See Figure 6, Compilation of Work.

During the period from September 16, 1997 to September 18, 1997 a one hole diamond drill program totaling 527 feet was completed. The hole was drilled to test an Induced Polarization anomaly that coincidentally underlies a shear hosted gold-bearing pyritic zone discovered in the 1995 surface stripping and sampling program that was further delineated at depth by an I.P. survey in a 1996 exploration program. See Figure 7, I.P. Pseudosection L 0 + 00 ft. W, 1:2400.

DDH FTO - 97 - 1: See accompanying Drill Section Fig. D - 1. The drill collar is located on L 0+ 00 ft. E. at station 3 + 50 ft. N. and drilled on an azimuth of 135 degrees, and on an inclination of - 60 degrees. The collar lies approximately 1250 ft. west and 650 ft. south of the northeast corner of mining claim L 1211524, See Fig. 6, for collar location and surface trace.

DDH FTO - 97 - 1 encountered an Fe tholeiitic basalt flow and fragmental sequence. A quartz stringer silicification zone occurs at 270.0 - 318.0 feet near a small fault gouge zone at 307.0 feet. A separate disseminated pyrite zone at 446.6 - 506.0 feet occurs within a disseminated magnetite flow sequence. The presence of the disseminated pyrite would appear to represent the sulphidization of magnetite. The pyrite occurs at the expense of magnetite, i.e. where pyrite is present magnetite is generally absent.

Gold assay results for the two zones, the quartz stringer zone and the disseminated pyrite zone, are generally low and insignificant. The disseminated pyrite zone coupled with disseminated magnetite in the basalt flows adequately explains the source of the Induced Polarization anomaly. Geochemically anomalous gold values were however obtained in only two Samples # 14468 and 14469 returning 199 and 108 ppb Au respectively. These results were disappointing relative to the surface sampling results obtained in 1995 sampling program on the pyritic - gold bearing showing. The disseminated pyrite intersected clearly demonstrates the source of the I.P. anomaly, but may simply represent a pyritic halo to a possible gold bearing mineralized structure. Further evaluation by drill testing is necessary along strike to explore a possible plunge direction of the gold bearing mineralization which was not intersected in the 1997 drill hole.



## **TARGETS FOR EXPLORATION**

The commodity and type of deposit sought on the Goodfish Lake Property is structurally related lode gold mineralization.

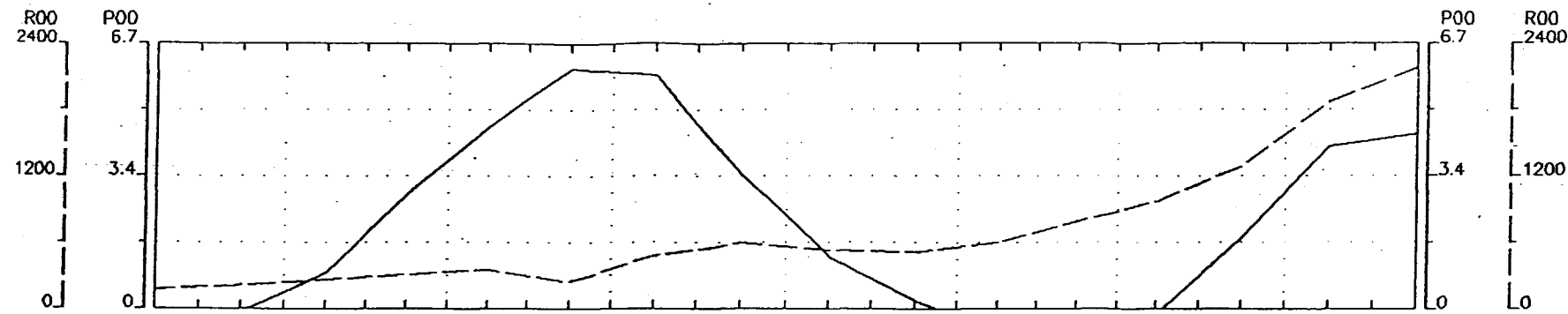
It was recommended at the end of the 1997 program that at least one short drill hole at - 45 degree inclination be drilled directly beneath the mineralized surface showing pit area located at the southwest end of the gold bearing surface exposure. This hole would aid in determining if a possible plunge direction exists for the gold mineralization seen at surface. The feldspar porphyry dyke seen on surface, and its possible relevance to the surface gold mineralization warrants further investigation by drill testing. Furthermore, the second shear fabric trending 050 degree / dipping -70 degree north as observed on the surface showing, may represent a favourable plane for the location of possible mineralization, and thus warrants a further drill testing program.

## **1998 DIAMOND DRILL PROGRAM**

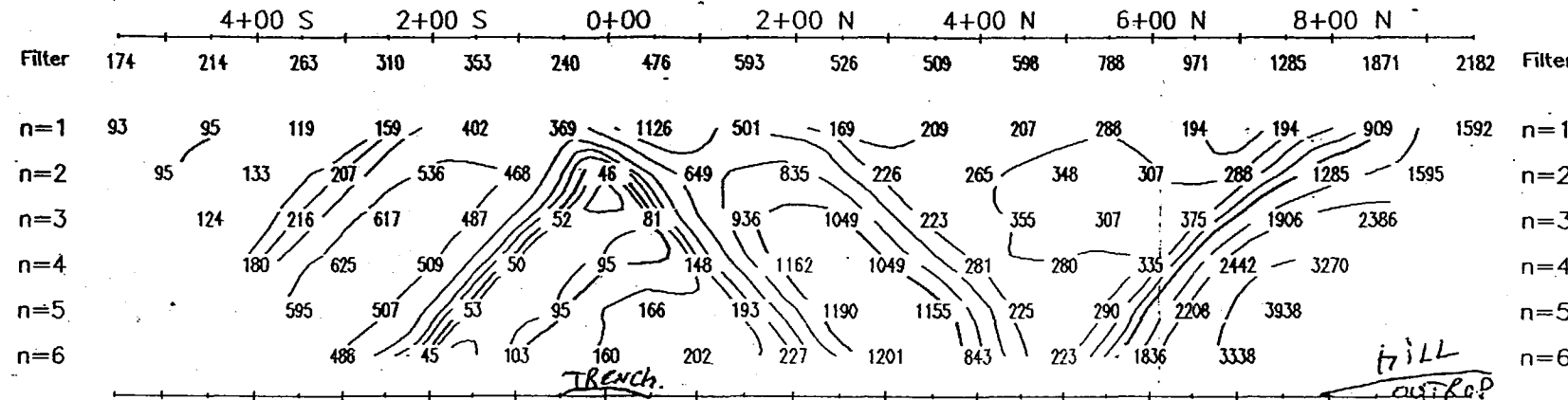
During the period from October 25, 1998 to October 29, 1998 a one hole diamond drill program totaling 467 feet was completed. The contract drilling company was G. Kosy of Kirkland Lake, Ontario. The hole was drilled to test an Induced Polarization anomaly that coincidentally underlies a shear hosted gold-bearing pyritic zone discovered in the 1995 surface stripping and sampling program that was further delineated at depth by an I.P. survey in a 1996 exploration program. See Figure 7, I.P. Pseudosection L 0 + 00 ft. W, 1:2400.

**DDH FTO - 98 - 1:** See accompanying Drill Section Fig. D - 2. The drill collar is located on grid co-ordinates 0+ 55 ft. W. at 2 + 00 ft. S. and drilled on an azimuth of 315 degrees, and on an inclination of - 45 degrees. The collar lies approximately 980 ft. west and 975 ft. south of the northeast corner of mining claim L 1211524, See Fig. 6, for collar location and surface trace of the DDH FTO-98-1.

The hole was collared in overburden at - 45 degrees with casing sunk to 58 feet. The hole encountered a Fe tholeiitic basalt flow sequence from 58.0 - 467 feet. The basalt flow sequence consists of fine and medium grained textured flows, locally calcite and chlorite amygdaloidal flows, and several coarse megacrystic cream white feldspar porphyritic basalt flows. Two intermediate dioritic dykes cut the flow sequence at 62.0- 66.2 and at 158.3- 168.0 feet. The intermediate dykes are characterized by fine 1-3mm prismatic porphyritic hornblende in a grey fine grained groundmass, and are similar to the dyke seen on the surface stripped area.

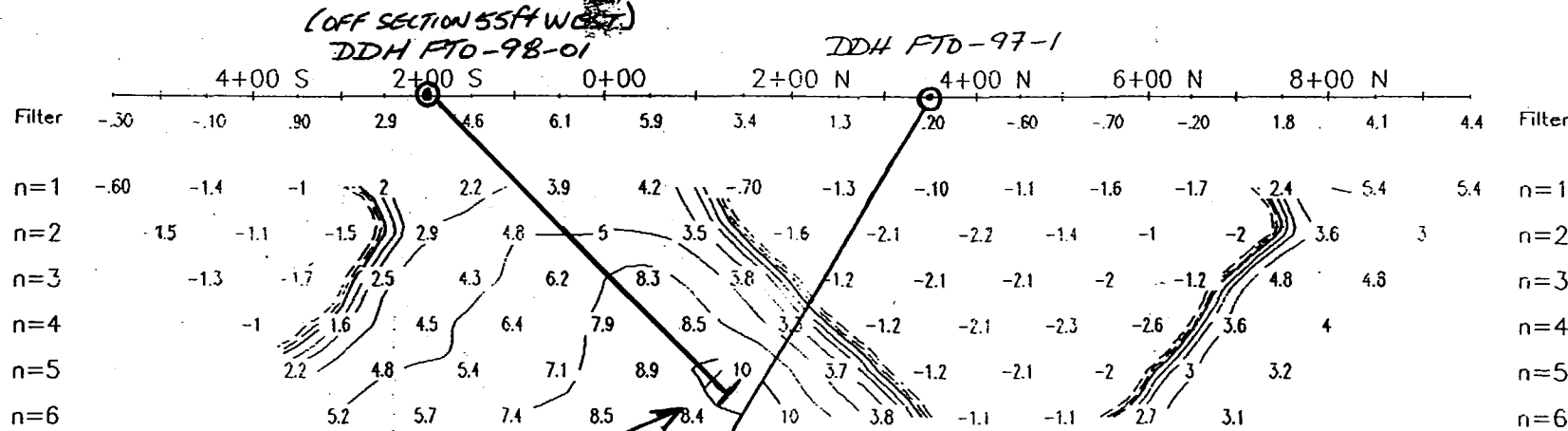


RESISTIVITY  
OHM-FEET



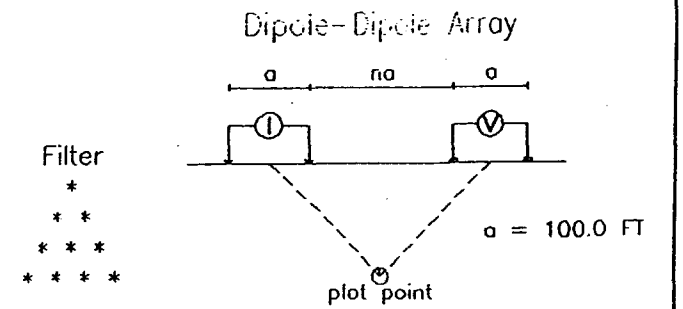
RESISTIVITY  
OHM-FEET

PHASE  
MRAD



PHASE  
MRAD

### Line 000 W



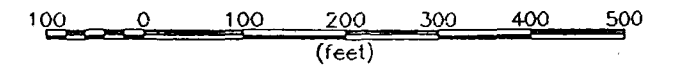
Filter  
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\* \* \* \* \*

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,...

### INTERPRETATION

- Strong increase in polarization accompanied by marked decrease in resistivity.
- Well defined increase in polarization without marked resistivity decrease.
- Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.

Scale 1:2399.995



F.T. O'CONNOR

INDUCED POLARIZATION SURVEY  
GOODFISH LAKE PROPERTY  
BERNHARDT TOWNSHIP, KIRKLAND LAKE, ONTARIO

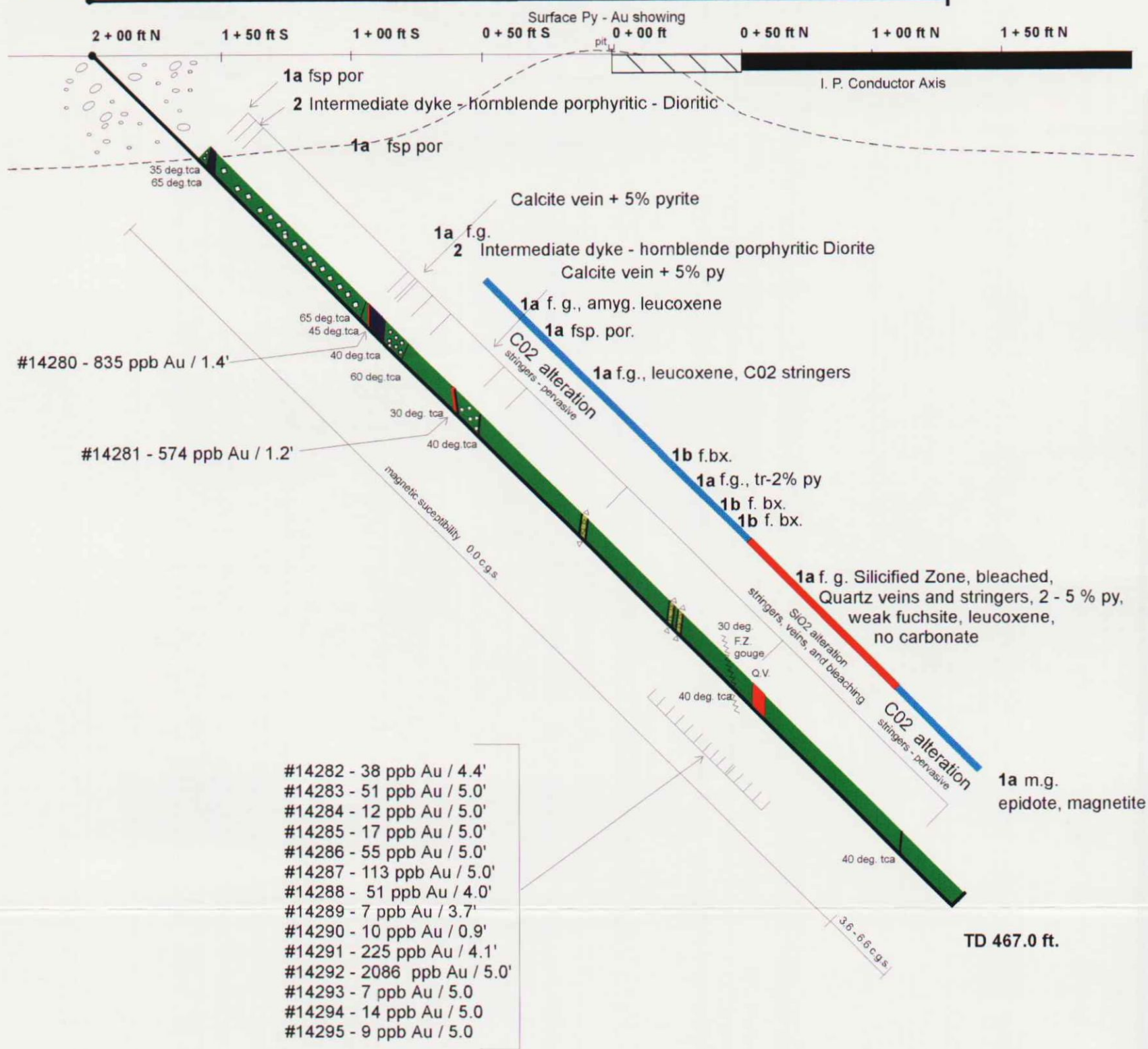
Date: 96/11/09 **Fig. 7**  
Interpretation: interp.

REMY BELANGER (GEOPHYSICAL CONTRACTOR) V-5 PHOENIX RX

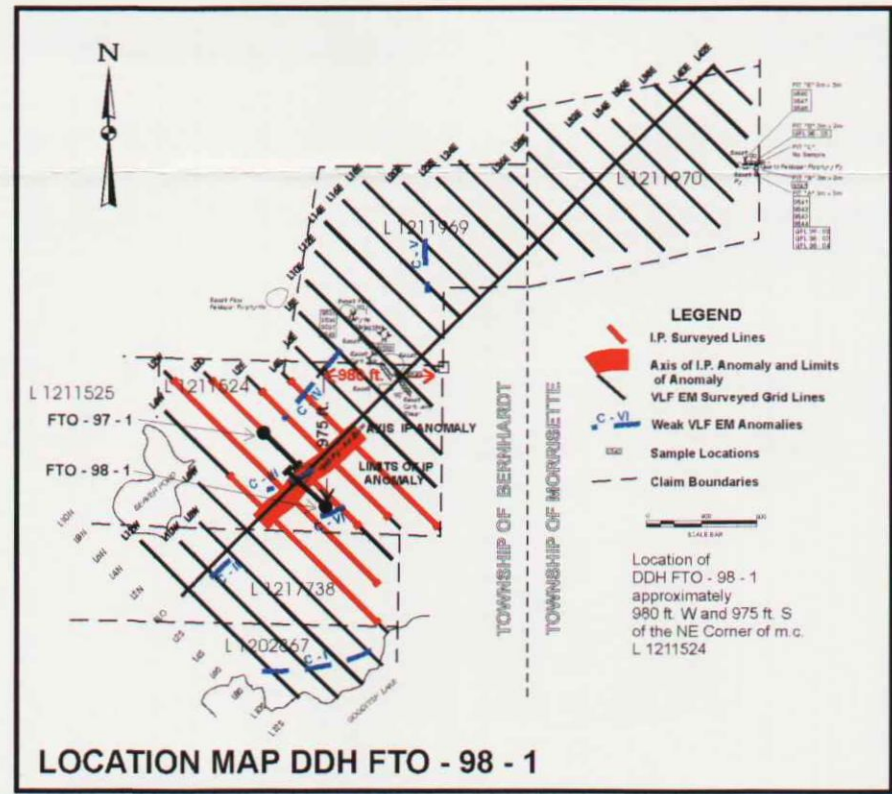


**COLLAR DDH FTO - 98 - 1**  
 @ Asimuth 315 deg. / DIP @ - 45  
 L 0 + 55 ft W / 2 + 00 ft S

projected surface trace DDH FTO - 98 - 1 along section 0 + 55 ft W



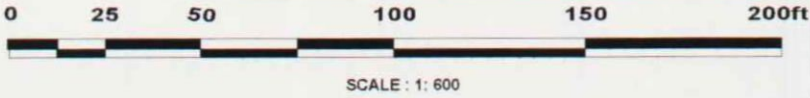
- #14282 - 38 ppb Au / 4.4'
- #14283 - 51 ppb Au / 5.0'
- #14284 - 12 ppb Au / 5.0'
- #14285 - 17 ppb Au / 5.0'
- #14286 - 55 ppb Au / 5.0'
- #14287 - 113 ppb Au / 5.0'
- #14288 - 51 ppb Au / 4.0'
- #14289 - 7 ppb Au / 3.7'
- #14290 - 10 ppb Au / 0.9'
- #14291 - 225 ppb Au / 4.1'
- #14292 - 2086 ppb Au / 5.0'
- #14293 - 7 ppb Au / 5.0'
- #14294 - 14 ppb Au / 5.0'
- #14295 - 9 ppb Au / 5.0'



**LEGEND**

2 ■ Intermediate Dyke - Diorite  
 1b ■ Basalt Breccia  
 1a ■ Basalt Flow

**TEXTURAL QUALIFIERS**  
 amy amygdular flow  
 fsp.por. feldspar porphyry  
 f.g. fine grained flow  
 m.g. medium grained flow  
 f. bx. flow breccia



DAVE GAMBLE GEOSERVICES INC

**F.T. O'CONNOR**  
**GOODFISH LAKE PROPERTY**  
 DDH SECTION FTO - 98 - 1  
 L 0 + 55 ft W ( Looking Southwest )  
 Mining Claim L 1211524 BERNHARDT TOWNSHIP

Date: November, 1998	NTS: 42A SE / 32D SW	FIG. D-2
Scale: 1: 600 ( 50 Scale Imperial)	Drawn Ref: S. G. ftoddh98.cdr	<i>[Signature]</i>

The mafic volcanic assemblage exhibits variable alteration and consists of weakly altered sausseritized feldspar, patchy to pervasive epidote stringers locally, and also calcite and quartz stringers. Leucoxene is abundant in the low magnetic basalt flows and generally absent in the high magnetic flows where disseminated magnetite is abundant.

Magnetic susceptibility measurements using a Scintrex SM-5 susceptibility meter ranged from 0.0 c.g.s. in the non-magnetic flows throughout most of the hole to a high of 6.5 c.g.s. in the strongly magnetic grained basalt flows at the end of the hole where strong disseminated magnetite is present. All magnetic susceptibility readings are entered on the accompanying drill log.

A silicification zone of quartz stringers with minor disseminated pyrite was intersected from 327.6-392.0 feet. A narrow fault zone with conductive clay gouge occurs over 3" at 347.6 feet at 30 degrees tca, within the silicified zone. Bordering the quartz stringer silicification zone are carbonate stringers (calcite) and pervasive interstitial carbonate alteration that form an upper carbonate alteration envelope from 392.0-438.0 feet. In addition, sausseritization of feldspar, and as strong epidote patches, development of leucoxene as a breakdown product of titaniferous magnetite, also occur within the carbonate alteration envelope to the quartz stringer zone.

The silicification zone hosts disseminated pyrite carrying 5% pyrite locally. The silicified pyrite zone occurs in a pale green fine grained basalt flow. This pyrite zone coupled with the disseminated magnetite in the lower basalt flow and also the conductive clay gouge fault zone all appear to have contributed to produce a cumulative effect and have acted as the source of the Induced Polarization anomaly.

A total of 16 samples numbered #14280 - # 14295 were split and submitted to Swastika Laboratories for gold assaying. The assay results reported by Swastika Laboratories on Geochemical Assay Certificate # \*W-4290-RG1 accompanying this report. The assays have also been entered on the drill log.

The assay results indicate anomalous levels of gold in the zones sampled. Two short intervals of calcite stringer veining with accompanying 5% disseminated pyrite, sample #'s 14280- 14281, returned gold values ranging from 835 ppb Au over 1.4 ft. and 574 ppb over 1.2 ft. respectively. The quartz stringer zone from 327.6-389.0 feet, 14 samples #'s 14282 – 14295 returned gold values ranging from 7 – 2086 ppb Au. One sample # 14292 from 369.9 – 374.0 ft. returned the best value of 2086 ppb Au over 4.1 feet. The remaining gold assay results in this silicified quartz stringer + weak disseminated pyritic zone were generally low in the low three to two digit ppb Au range.



**CONCLUSIONS:**

Drill hole DDH FTO – 98 – 1 encountered an Fe tholeiitic andesite-basalt flow sequence including both fine grained basalt flow and coarse feldspar porphyritic basalt flow intervals. Two intermediate diorite dykes that are weakly hornblende porphyritic cut the mafic flow sequence and seems to be of minor importance. A mud gouge fault zone at 347.6 ft. is enveloped by a silicification zone from 327.6 – 392.0 characterized by quartz veining, stringers, and bleaching with locally 5% disseminated pyrite. A carbonitized alteration envelope of weak to moderate pervasive calcite and calcite stringers occurs on either side of the silicification zone from 168.0-327.6 and again from 392.0 – 438.0 feet. Above and below the carbonate alteration envelope is minor calcite vein stringers locally and patchy stringer epidote. From 438.0 – 467 ft. the basalt is strongly magnetic with disseminated magnetite and with strong epidote patchy alteration.

A total of 16 split core samples submitted for Au analysis. Geochemically anomalous gold values were however obtained in two narrow calcite veins with 5% disseminated pyrite in sample #'s 14280 and 14281, returning 835 ppb Au over 1.4 ft and 574 ppb Au over 1.2 ft. In addition, only one sample from the continuous series of samples taken from the silicified zone, sample # 14292 of silicified bleached altered basalt returned 2086 ppb Au over 4.1 ft. from 369.9 – 374.0 ft. The gold assay results for the silicified zone, the quartz stringer weak pyritic zone are overall, generally low, and may simply represent a pyritic halo to a weak gold bearing mineralized shear / fault structure.

The disseminated pyrite in the silicified basalt zone coupled with clay filled fault zone and disseminated magnetite in the lower basalt flows adequately explains the source of the Induced Polarization anomaly.

**RECOMMENDATIONS:**

It is recommended at this time that no further drill testing be conducted on the gold surface showing until new geophysical targets can be developed. It is suggested that a test line of deep penetrating Real Section I.P. be considered over this surface showing on L 0 + 00 E to possibly develop future drill targets.



Dave Gamble  
Dave Gamble Geoservices Inc.  
December 2, 1998

**Certificate of the Author**

I, Dave Gamble of 70 First Street, Kirkland Lake, Ontario P2 N 1N3, hereby certify that:

1. I am a geologist residing at the above address.
2. I am a graduate of the University of Ottawa with an Honors B. Sc. degree in geology (1973), and have completed two years leading towards an M.Sc. degree (geology) at Laurentian University (1974-1976).
3. I have practiced my profession for more than 25 years.
4. I have supervised the diamond drill program, logged the core, and overseen the cutting of the core for sampling, and interpreted the results as presented in this report.
5. I hold no interest in this property.

Respectfully submitted,



Dave Gamble, B. Sc. (Hon. Geol.)  
Dave Gamble Geoservices Inc.  
December 2, 1998

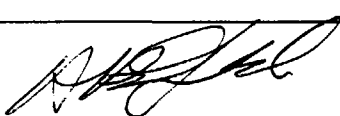
**APPENDIX**









Feet From:	Feet To:	Description	Sample Number:	From:	To:	Length	Au ppb		Ft.	SM - 5 in c.g.s.
		297 ft., over short intervals of 10 cm. From 296 - 327.6 ft. green chlorite spots or amygdules from 1-2 mm up to 1 cm. Also a slightly coarser texture with interlocking mafic prismatic 1 - 3mm crystal in a lighter green mosaic. Also lose the interstitial calcite at 312.2 ft. Upper carbonate alteration envelope 263.7-312.2 ft. From 327.6 - 392.0 Silicified zone of quartz stringers, veining and brecciated vein of white quartz. The basalt is bleached or silicified to various pale green, some dark green chlorite patches near the quartz veining and along borders of some quartz veining. Some of the bleached basalt is wealy fuchsitic, a pale vibrant green micaceous spotting locally. Disseminated pyrite occurs from 2-5% locally throughout. At 347.6 - 347.8 clay mud gouge or FAULT ZONE, upper contact at 30 deg. tca, lower contact broken. Much of the quartz are stringers and brecciated stringers. From 358.0 - 364.6 ft. a more solid quartz vein with stringer upper contact and a strong planar lower contact at 40 deg. tca. Another narrow quartz vein at 35 deg. tca at 369.0- 369.9. Strong foliation fabric 30 deg. tca exhibited by partially flattened chlorite spots and foliation of grey white to pinkish white leucoxene. From 383.5 - 392.0 buff tan bleached to pale green, + trace to 2 % pyrite. At 392.0 start to get weak and gradually progressing to moderate pervasive carbonate, lower carbonate alteration envelope, also calcite stringers locally to 438.0 ft. From 392.0 - 438.0 ft. pale to moderate grey to grey green fine grained flow, carbonitized and carrying trace to 2% disseminated pyrite. The sequence is highlighted by a fault gouge zone at 347.6 - 347.8 within a zone of silicification and quartz veining and stringers with an upper and lower carbonate alteration envelope. Lower contact irregular to wavy flow contact at 40 deg. tca.	14282 14283 14284 14285 14286 14287 14288 14289 14290 14291 14292 14293 14294 14295	327.6 332.0 337.0 342.0 347.0 352.0 357.0 361.0 364.7 369.0 369.9 374.0 379.0 384.0 389.0	332.0 337.0 342.0 347.0 352.0 357.0 361.0 364.7 369.0 369.9 374.0 379.0 384.0 389.0	4.4 5.0 5.0 5.0 5.0 5.0 4.0 3.7 4.3 0.9 4.1 5.0 5.0 5.0	38 51 12 17 55 113 51 7 10 225 2086 7 14 9			
438.0	467.0 EOH	ANDESITE/BASALT FLOW - MEDIUM GRAINED - MAGNETIC - EPIDOTE ALTERED Medium to dark green, fine to medium grained flow, with numerous epidote patches and stringer veinlets. Occasional calcite stringer locally. From 438.0 - 446.0 leucoxene white to pale mauve flecks, interstitial weak carbonate and 0.0 - 0.2 c.g.s. magnetic susceptibility through the contact interval only. From 446 - 467 disseminated fine magnetite, no leucoxene, with magnetic susceptibility of 3.6 c.g.s. at 446.5, and consistently between 5.1 - 6.5 c.g.s. to the EOH.							438.0 443.0 446.0 446.5 447.0 452.0 457.0 462.0	0.0 0.0 0.0 3.6 6.5 5.1 5.7 5.1
		 CORE STORED: 12 TOBURN DRIVE, KIRKLAND LAKE, ONT.								



# Swastika Laboratories

A Division of TSL/Assayers Inc.

Assaying - Consulting - Representation

Established 1928

## Geochemical Analysis Certificate

8W-4290-RG1

Company: **F. O'CONNOR**  
Project: **G.F. & M.H.**  
Attn: **F. O'Connor**

Date: NOV-05-98

We hereby certify the following Geochemical Analysis of 16 Core samples submitted NOV-03-98 by .

Sample Number	Au PPB	Au Check PPB
14280	835	-
14281	574	-
14282	38	-
14283	36	51
14284	12	-
14285	17	-
14286	55	-
14287	113	110
14288	51	-
14289	7	-
14290	10	-
291	225	-
292	2086	2047
14293	7	-
14294	14	-
14295	9	-

One assay ton portion used.

Certified by Denis Chantre

1 Cameron Ave., P.O. Box 10, Swastika, Ontario P0K 1T0  
Telephone (705)642-3244 Fax (705)642-3300





# Declaration of Assessment Work Performed on Mining Land

Mining Act, Subsection 65(2) and 66(3), R.S.O. 1990

Transaction Number (office use)

W0080.00196

Assessment Files Research Imaging



42A01NE2029 2.20274 BERNHARDT

900

subsection 65(2) and 66(3) of the Mining Act. Under section 8 of the Mining Act assessment work and correspond with the mining land holder. Questions about the Mining Act should be directed to the Ministry of Northern Development and Mines, 3rd Floor, 933 Rampart Road, Sudbury, Ontario, Canada N2P 1K1.

LARGER LAKE MINING DIVISION  
3:35 AM  
APR 26 2000

- Instructions: - For work performed on Crown Lands before recording a claim, use form 0240.
- Please type or print in ink.

20074

### 1. Recorded holder(s) (Attach a list if necessary)

Name <i>FRANCIS T. O'CONNOR</i>	Client Number <i>705-567-5132</i>
Address <i>12 TOSWEN DRIVE P.O. BOX KIRKLAND LAKE ONTARIO</i>	Telephone Number <i>177128</i>
	Fax Number <i>/</i>
Name	Client Number
Address	Telephone Number
	Fax Number

### 2. Type of work performed: Check (✓) and report on only ONE of the following groups for this declaration.

Geotechnical: prospecting, surveys, assays and work under section 18 (regs)	Physical: <input checked="" type="checkbox"/> drilling, stripping, trenching and associated assays	Rehabilitation
Work Type <i>DIAMOND DRILLING, SAMPLING</i>	Office Use	
	Commodity	
	Total \$ Value of Work Claimed <i>10,811</i>	
Dates Work Performed From Day <i>26</i> Month <i>10</i> Year <i>98</i> To Day <i>29</i> Month <i>10</i> Year <i>98</i>	NTS Reference	
Global Positioning System Data (if available)	Township/Area <i>BERNHARDT</i>	Mining Division <i>harder lake</i>
	M or G-Plan Number <i>G-3207</i>	Resident Geologist District <i>Kirkland Lake</i>

- Please remember to:
- obtain a work permit from the Ministry of Natural Resources as required;
  - provide proper notice to surface rights holders before starting work;
  - complete and attach a Statement of Costs, form 0212;
  - provide a map showing contiguous mining lands that are linked for assigning work;
  - include two copies of your technical report.

RECEIVED  
APR 27 2000  
GEOSCIENCE ASSESSMENT OFFICE

### 3. Person or companies who prepared the technical report (Attach a list if necessary)

Name <i>DAVE GAMBLE GEASERVICES INC.</i>	Telephone Number <i>705-567-4381</i>
Address <i>70 FIRST STREET KIRKLAND LAKE ONTARIO P2N 1N3</i>	Fax Number <i>705-567-3801</i>
Name	Telephone Number <i>705-567-3811</i>
Address	Fax Number
Name	Telephone Number
Address	Fax Number

### 4. Certification by Recorded Holder or Agent

I, *FRANCIS O'CONNOR*, do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent <i>[Signature]</i>	Date <i>APRIL 26/2000</i>
Agent's Address <i>72 FIFTH STREET P.O. BOX 834 P2N 1K4 KIRKLAND LAKE, ONTARIO</i>	Telephone Number <i>705-567-0128</i>
	Fax Number <i>NA</i>

Work to be recorded and distributed. Work can only be assigned to claims that are contiguous (adjoining) to the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

W0050.00196

Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date
TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
1234567	12	0	\$24,000	0	0
1234568	2	\$ 8,892	\$ 4,000	0	\$4,892
1211524	2	\$10,811.00	\$3,200.00		\$11.00
1211525	1			\$1,600.00	
1211969	1			\$1,200.00	
1211970	1			\$1,600.00	
1217738	2			\$800.00	
1202867	4			\$1,600.00	
1202760	1	2,211.00		\$800.00	
Column Totals	12	\$10,811.00	\$3,200.00	\$7,600.00	\$11.00

I, \_\_\_\_\_, do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done

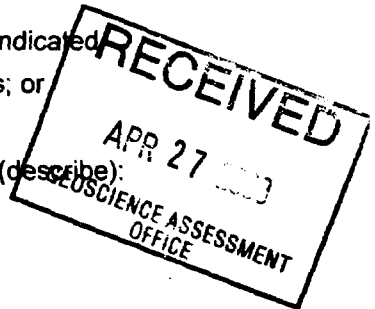
Signature of Recorded Holder or Agent Authorized in Writing

Date  
APRIL 26 2000

**6. Instruction for cutting back credits that are not approved.**

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated
- 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- 3. Credits are to be cut back equally over all claims listed in this declaration; or
- 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):



Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

**For Office Use Only**

Received Stamp

RECEIVED  
LARDER LAKE  
MINING DIVISION  
3:35 Am  
APR 26 2000

Deemed Approved Date	Date Notification Sent
Date Approved	Total Value of Credit Approved
Approved for Recording by Mining Recorder (Signature)	

Personal information collected on this form is obtained under the authority of subsection 6 (1) of the Assessment Work Regulation 6/96. Under section 8 of the Mining Act, this information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to a Provincial Mining Recorder, Ministry of Northern Development and Mines, 3rd Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

Work Type	Units of work Depending on the type of work, list the number of hours/day worked, metres of drilling, kilometres of grid line, number of samples, etc.	Cost Per Unit of work	Total Cost
DIAMOND Drilling	467 FEET 141.5 METERS		\$6,246.13
Sampling	16 Samples		\$196.38
CORE Splitting & WE STORAGE	3 days	150.00 day	\$450.00
SUPERVISION & HOISTING	4 days	150.00 day	\$600.00
<b>Associated Costs (e.g. supplies, mobilization and demobilization).</b>			
REPORTS + CORE Logging, Dave Gumble GEOSERVICES INC.			\$3,312.00
<b>Transportation Costs</b>			
<b>Food and Lodging Costs</b>			
<b>Total Value of Assessment Work</b>			\$10,014.51

RECEIVED  
APR 27 2000  
GEO SURVEILLANCE

**Calculations of Filing Discounts:**

1. Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work.
2. If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the Total Value of Assessment Work. If this situation applies to your claims, use the calculation below:

TOTAL VALUE OF ASSESSMENT WORK  $\times 0.50 =$  Total \$ value of worked claimed.

**Note:**  
 - Work older than 5 years is not eligible for credit.  
 - A recorded holder may be required to verify expenditures claimed in this statement of costs within 45 days of a request for verification and/or correction/clarification. If verification and/or correction/clarification is not made, the Minister may reject all or part of the assessment work submitted.

**Certification verifying costs:**

I, Thomas O'CONNOR (please print full name), do hereby certify, that the amounts shown are as accurate as may reasonably be determined and the costs were incurred while conducting assessment work on the lands indicated on the accompanying

Declaration of Work form as AGENT (recorded holder, agent, or state company position with signing authority) I am authorized to make this certification.

Signature: Date: 6/16/2000

RECEIVED  
3:35 PM  
350



Geoscience Assessment Office  
933 Ramsey Lake Road  
6th Floor  
Sudbury, Ontario  
P3E 6B5

Telephone: (888) 415-9845  
Fax: (877) 670-1555

May 23, 2000

FRANCIS T. O'CONNOR  
P.O. BOX 834  
TOBURN PROPERTY  
KIRKLAND LAKE, Ontario  
P2N-3K4

Visit our website at:  
[www.gov.on.ca/MNDM/MINES/LANDS/mismnpgc.htm](http://www.gov.on.ca/MNDM/MINES/LANDS/mismnpgc.htm)

Dear Sir or Madam:

**Submission Number:** 2.20274

**Status**

**Subject: Transaction Number(s):** W0080.00196 Approval

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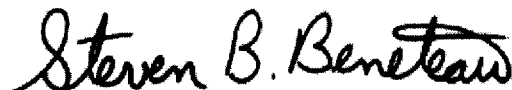
We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. **WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.**

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice. Allowable changes to your credit distribution can be made by contacting the Geoscience Assessment Office within this 45 Day period, otherwise assessment credit will be cut back and distributed as outlined in Section #6 of the Declaration of Assessment work form.

Please note any revisions must be submitted in DUPLICATE to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact BRUCE GATES by e-mail at [bruce.gates@ndm.gov.on.ca](mailto:bruce.gates@ndm.gov.on.ca) or by telephone at (705) 670-5856.

Yours sincerely,



ORIGINAL SIGNED BY  
Steve B. Beneteau  
Acting Supervisor, Geoscience Assessment Office  
Mining Lands Section

# Work Report Assessment Results

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**Submission Number:** 2.20274

**Date Correspondence Sent:** May 23, 2000

**Assessor:** BRUCE GATES

---

<b>Transaction Number</b>	<b>First Claim Number</b>	<b>Township(s) / Area(s)</b>	<b>Status</b>	<b>Approval Date</b>
W0080.00196	1211524	BERNHARDT	Approval	May 23, 2000

**Section:**  
16 Drilling PDRILL

**Correspondence to:**  
Resident Geologist  
Kirkland Lake, ON

Assessment Files Library  
Sudbury, ON

**Recorded Holder(s) and/or Agent(s):**  
Thomas O'Connor  
KIRKLAND LAKE, ONTARIO

FRANCIS T. O'CONNOR  
KIRKLAND LAKE, Ontario

---

# 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

④ SEC.35 W-LL C1615/99 ONT MAY 11/99 M+S

## SAND and GRAVEL

④ M.N.R. GRAVEL RESERVE FILE 188522

✦ PENDING APPLICATION (SURFACE RIGHTS) UNDER PUBLIC LANDS ACT

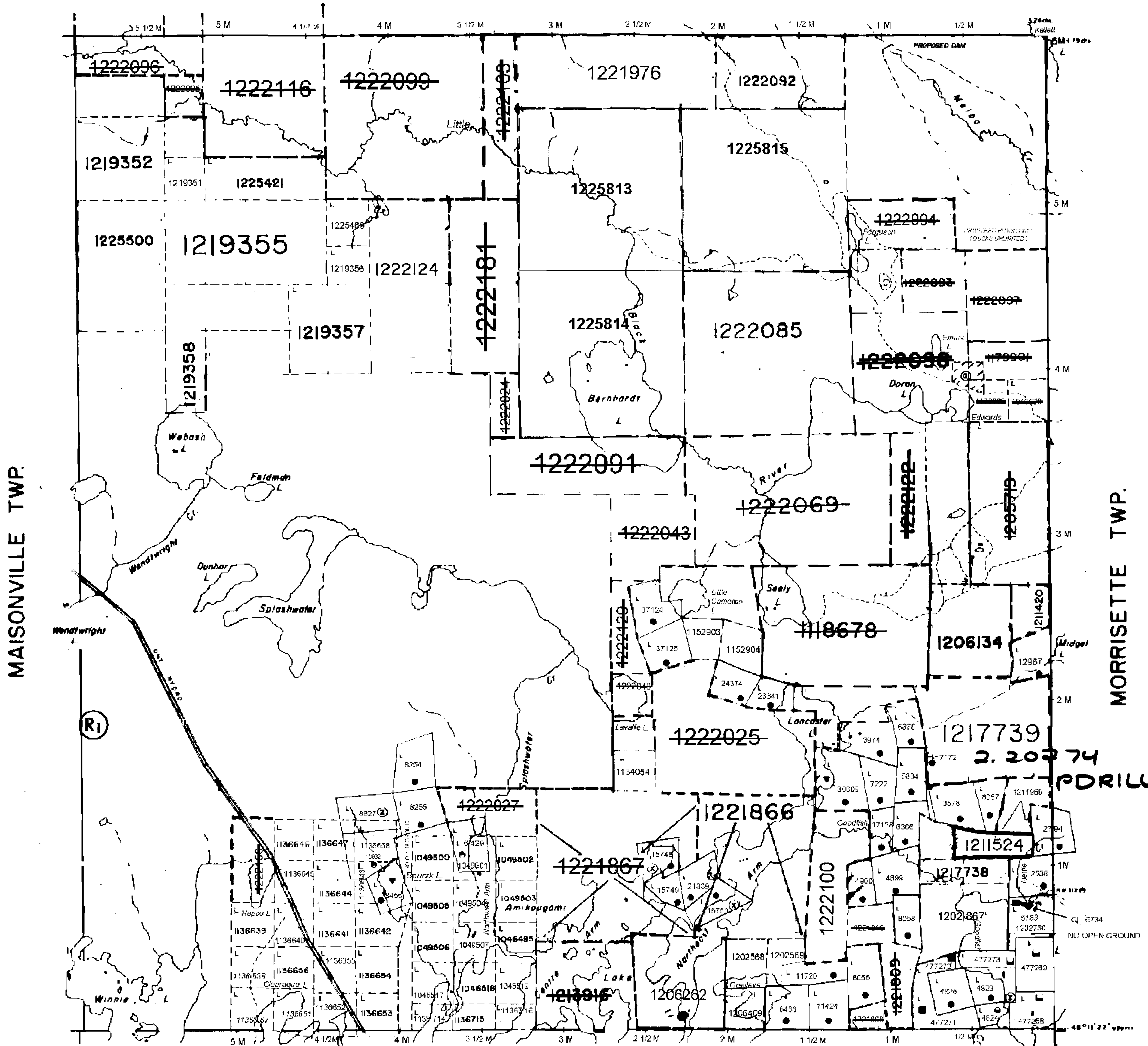
THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

## NOTICE OF FORESTRY ACTIVITY

THIS TOWNSHIP / AREA FALLS WITHIN THE TIMISKAMING MANAGEMENT UNIT AND MAY BE SUBJECT TO FORESTRY OPERATIONS. THE MNR UNIT FORESTER FOR THIS AREA CAN BE CONTACTED AT: P.O. BOX 129 SWASTIKA, ONT. POK ITO 705-642-3222

COPY OF THIS MYLAR ARCHIVED APR 22/92

# MELBA TWP.



# TECK TWP.

ARCHIVED MAY 02, 1994  
ARCHIVED OCTOBER 24/95  
ARCHIVED MAR. 13/97

# LEGEND

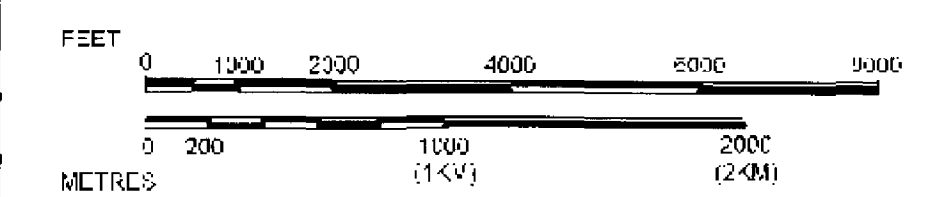
- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES
- TOWNSHIPS, BASE LINES, ETC.
- LOTS, MINING CLAIMS PARCELS, ETC.
- UNSURVEYED LINES
- LOT LINES
- PARCEL BOUNDARY
- MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION 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 8 1873, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1870 CHAP. 380, SEC. 65, SUBSEC. 1

SCALE: 1 INCH = 40 CHAINS



CIRCULATED FEB 26, 1990

## TOWNSHIP

# BERNHARDT

M.N.R. ADMINISTRATIVE DISTRICT

KIRKLAND LAKE

MINING DIVISION

LARDER LAKE

LAND TITLES / REGISTRY DIVISION

TIMISKAMING

Ministry of Natural Resources Ontario  
Land Management Branch

Date: JANUARY 1986

Number:

G-3207

