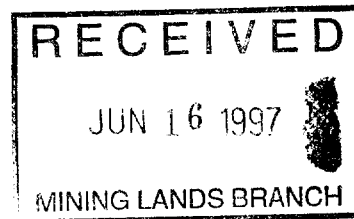


OPAP 95 Joint Venture, J. Ward
& D. Ward Diamond Drilling and
IP Prospecting for NORLISK'SK
Type Mineralization Along the
Footwall Contact of a 5 Mile Long
Peridotite Intrusive.

2.17406



*Doc #
2.1745
May 21/97*



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(a) F. ELLGRING'S DRILL LOGS DDH OPAP95 MANN	
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FIG #1. KEY MAP PROPERTY LOCATION SCALE 1:20,000

FIG #2. PROPERTY COMPILATION MAP SHOWING DDH LOCATION SCALE 1:2500

OPAP 95 IP COVERAGE AND LOCATION OF CHARGEABILITY ANOMALIES SCALE 1:2500
(KEY MAP TO FIG 2A SCALE 1:2000 SHOWS 1993 OPAP IP COVERAGE AND ANOMALIES.)

FIG #3. DIAMOND DRILL SECTION FACING EAST FOR DDH OPAP95 MANN SCALE 1:1000

FIG #4. GEOPHYSICAL PROFILES OVER DDH OPAP95 MANN SCALE 1:2500

FIG #5. A, B, C, D, E, F, G I.P. PSEUDOSECTIONS LINES 9W, 8W, 2W, 1W, 0, 2E AND 4E.



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OPAP 95 Joint Venture, J. Ward & D. Ward Magnetic, Vertical Coil EM and IP, Prospecting for NORLISK'SK Type Mineralization Along the Footwall Contact of a 5 Mile Long Peridotite Intrusive.

Location and Access Project area consists of 18 claim units staked in 1993 to cover the footwall contact of an eastwest trending peridotite intrusive, in the southern half of concession 6, lots 4 through 9, Mann Twp.. These claims were jointly recorded in the name of John Ward and David Ward and consist of: claim nos P1180028 - 30, P1186760, P1186762, P1200683 - 4. The claim group can be reached by driving southward from the community of Cochrane, Ont., 25 kilometres on highway 11, thence westward 12 kilometres on gravel road along concession 5/6 line in Newmarket and Mann Twp. The NTS sheet # 42A/14, latitude 48 degrees 52 minutes north and longitude 81 degrees 2 minutes west.

Project Summary. It was proposed to test an airborne INPUT anomaly by a 150 metre vertical diamond drill hole in lot 9, concession 6 Mann Twp.. This INPUT anomaly was geophysically detailed by ground magnetics, gravity, vertical coil EM, and induced polarization, supported by OPAP joint ventures 1993 & 1994. The source of the INPUT anomaly was interpreted by the applicants to lie 80 metres subsurface immediately below a shallow dipping peridotite intrusive. This geological interpretation was verified by the 150 metre drill hole completed in June 1995, however the sulphides encountered were too sparse to form economic mineralization. It was further proposed to test the footwall of the peridotite in lots 6, 7, and 8 by two weeks of induced polarization detail. The 2 weeks of IP detail completed in Sept 1995 verified that the continuity of minor sulphide mineralization lying along the footwall contact of the peridotite in lots 6, 7 and 8.

Geology and History of Project. The property straddles the central 4 kilometres of an 8 kilometre long peridotite footwall contact. The peridotite is terminated on the west by the Frederickhouse River Timiskaming (rift related) Fault and on the east by a 400 square kilometre area of megacrystic potash granodiorite / syentitic-monzonite. The peridotite, age 2710 MY (Neoproterozoic) as indicated in MNDM map# 2577, intrudes mafic volcanics, and in some places volcanic sediments.

The Zevely showing, which lies in lot 11 south half concession 6, Mann Twp. and is located 2 kilometres west of the 1995 OPAP project property, is a nickeliferous pyrrhotite-chalcopyrite mineralized zone, exposed for a width of 20 metres and a length of approximately 100 metres along the south contact of the same east-west trending serpentinized peridotite.

The Zevely mineralization lies entirely in pillowed andesites and within 30 metres of the peridotite contact exhibiting considerable similarity to the Alexo mine in Dundonald Twp. 30 kilometres to the southeast. In 1949,

following an electrical resistivity survey, the Zevely zone was tested by 20,000 feet of diamond drilling (Timmins file T-173). Grab samples of the showing assayed between 1% and 6% copper and 2% and 5% nickel (reference Northern Miner Nov. 18, 1948). Nickeliferous pyrrhotite, pentlandite and massive stringers along with irregular patches of chalcopyrite were encountered in andesite pillow lavas within 30 metres of the southern peridotite contact.

Sulphurization may be responsible for mineralization. In CIM bulletin (1966) vol.59 pp 489-497 A.J.Naldrett suggests sulphurization as being responsible for the formation of the Alexo mine. Sulphurization may therefore also be responsible for the mineralization of the Zevely showing and other nickel-copper mineralization to be found along the south contact of the peridotite. The Alexo mine and Zevely deposit both lie close to the Frederickhouse river Timiskiming rift fault and are therefore probably classifiable as Norlisk 'sk type Cu-Ni deposits.

Discovered peridotite thought associated with copper/nickel mineralization. In 1993 as part of J. Ward's and D. Ward's OPAP funded project a peridotite outcrop was discovered near the lot 6-7 boundary approx 600 metres north of the concession 6 line. A grid was cut and chained on lot 6 and magnetic and vertical coil EM surveys were completed. The peridotite extending eastwesterly was indicated by magnetic field strengths as great as 69000 gammas. Three vertical coil EM traverses indicated a moderately weak conductor lying parallel to and immediately south of the magnetically interpreted peridotite contact. The vertical coil EM conductor coincided with three weak airborne INPUT survey anomalies indicated on OGS map #81049. In the opinion of J. Ward and D. Ward that due to its indicated geological location this conductor on lot 6 is probably associated with copper-nickel mineralization.

Ground electromagnetic surveys not successful in detecting potential sulphide drill targets underlying the peridotites. From 1948 to 1978 ground electromagnetic and magnetic surveys were carried out in Range VI by several companies covering the east-west trending peridotite from lot 12 thru lot 7 (Noranda file T-152, INCO file T-266, Rosario Resources file T-1827, and in lot 4 by Hollinger Gold Mines Ltd.. T-1656). The ground electromagnetic surveys failed to indicate anomalous electrical conductivity underlying the peridotite, however they did indicate a broad 100 metre wide zone of very weakly anomalous conductivity in the mafic volcanics immediately south of the peridotite.

Airborne electromagnetic surveys detect potential sulphide drill targets underlying the peridotite. Airborne INPUT electromagnetic surveying (OGS Map 81049) flown in 1987 did not show response to the

Zevely showing or other sulfide mineralization lying along the south contact of the peridotite, except in lot 6 and at the OPAP 1995 recommended drill site in lot 9.

An airborne VLF and magnetometer survey was carried out by Shield Platinum in 1987 covering lots 10, 11, and 12 (file T-3147). No VLF response was attributable to the sulfide mineralization lying along the south contact of the Peridotite, however, eddy current crowding could be identified within the serpentinized peridotite approximately 100 metres north of the contact.

Diamond Drill report did not identify sulphides. In 1965 INCO tested the south contact of the peridotite by diamond drilling in lot 9 at 400 metres west of the OPAP95 proposed drill hole. In the same year INCO tested the south contact of the peridotite by diamond drilling in lot 7. Logs of both holes by INCO simply indicated serpentine at the beginning of the holes and mafic volcanics at the end of the holes. As was the custom with INCO, drill logs did not indicate the presence of sulphide mineralization even when pervasive massive sulphides were present. These two holes by INCO were setup to test Bouguer gravity highs for which the only plausible explanation in the opinion of J. Ward would be the presence of heavy sulphide mineralization.

In 1965 INCO drilled 2 holes in the peridotite 100 to 300 metres north of the contact in lot 7 and encountered serpentinized peridotite and talc magnesite.

Humus samples anomalous in nickel, copper, gold & chromium. In 1993 as part of J.Ward's and D.Ward's OPAP supported prospecting programme humus samples were collected at 130 sites and multi-element assayed. 20 of these samples were gathered for background control purposes at accessible points throughout Newmarket, Mann, Duff, Reaume and Hanna Twp.. It was expected that the area was overlain by the Abitibi clay belt, however clear evidence in the assay results indicate the area is overlain by a fine sandy till with glacial movement south 20 degrees east.

Nickel, copper, gold and chromium assays were in general 4 times greater than background assays for humus in the Abitibi greenstone belt region, and reached assays of 10 times background in the humus geochemistry detail areas in lots 4, 7, 8 and 9 in the south half of concession 6.

Relocated gravity highs similar to sulphide indications. A gravity survey (assessment file T-152) was completed by INCO in 1948 covering lot 7, 8 & 9, south half of concession 6. Anomaly locations of this gravity survey were redetermined by matching magnetic features of INCO's concomitant 1948 magnetic survey (which used the same grid as the 1948 Gravity survey), and matching magnetic anomalies with the present magnetic surveying. The magnetically relocated INCO Bouguer gravity highs are shown in figure 1. as

lying along the south contact of the peridotite approximately 50 metres south of the contact.

The location of these Bouguer gravity highs is similar to that of the sulphides encountered at the Zevely showing lying in mafic volcanics 30 metres south of the peridotite contact. It is anticipated by the writer J. Ward that the indicated strong gravity anomaly straddling the lot 7/8 lot line and 50 metres south of the indicated peridotite mafic volcanic contact is only explainable by the presence of heavy sulphides even though no mention of sulphides is made in INCO drill core logs.

The 1993 OPAP programme using induced polarization by J. Ward and D. Ward demonstrated that the gravity high central to lot 9 and 50 metres south of the peridotite contact had a chargeability indicating the presence of minor sulphides using an "a" spacing of 25 metres. However, when an "a" spacing of 50 metres was used anomalous chargeability probably indicating the presence of heavy sulphides 100 metres further north and underlying 70 metres of peridotite was indicated. This more northerly location is coincident with the airborne INPUT anomaly indicated on OGS map 81049 (The OPAP 1995 proposed drill hole test site).

The 1994 OPAP programme consisted of line cutting in lots 7 & 8 south half of concession 6 Mann Twp. followed by total field magnetic and vertical coil EM surveying including detail humus geochemistry.

Magnetic surveys and results. 7.7 kilometres of total field magnetics were read in lots 7 & 8 south half of concession 6 Mann Twp. for a total of 442 stations. Results are shown in figure 1. and are plotted at a scale of 1 to 2500 and contoured at 1000 gamma intervals. Rosario Resources Canada Ltd. completed total field magnetic surveying the west half of lot 7 and all of lot 8 & 9 the contours of which are shown in figure 1. Also incorporated in figure 1. are the magnetic survey results for OPAP 1993 covering lot 6 Mann Twp..

Drill hole short of footwall contact. The south contact of the peridotite centrally traverses the length of the property lying along the 59000 to 60000 gamma contour. The highly magnetic zone associated with the peridotite varies between 300 metres north/south to 800 metres north/south in width. Airborne INPUT anomalies indicated to lie along the south contact of the peridotite are interpreted by J. Ward to dip shallowly northward at 30 degrees from the horizontal. At 75 metres north of the number 4 post of claim P1180028 a vertical drill hole by INCO in 1951 reached 135 metres depth in peridotite without reaching the base contact. Probable thickness of the peridotite is 200 to 400 metres.

Vertical coil EM survey. 9 kilometres of vertical coil EM traverses was completed Sept. 26 to 30, 1994 using a 1000 hertz unit readable up to 800 metres transmitter to receiver separation. With the expectation that the survey was locating the axis of 5 mho conductivity thickness conductors, a transmitter-receiver spacing of at least 200 metres was employed. A total of 263 dip angles were recorded and are shown in Fig 2 at a scale of 1:2500 and profiled at a scale of 1. cm. equals 5 degrees tilt angle.

Weak conductivity locations. Weak conductivity is indicated at gravity highs 50 metres south of the contact central to lot 9 and straddling the lot 7/8 lot line. A slightly stronger conductivity conductor axis also follows the south contact of the peridotite across the property and lies 100 metres south of the contact as indicated by Rosario Resources horizontal loop EM MAX-MIN survey in 1978. The present VCEM survey verifies the presence of this weakly conductive horizon 100 metres south of the peridotite contact. The weak Rosario HLEM and weak VCEM interpreted conductive axes identified in fig.2 are for the most part exactly coincident.

Humus sampling. In August 1994 J. Ward collected 41 humus samples from lot 7 & 8 south half concession 6 Mann Twp. to compliment humus sampling started in 1993. Samples were assayed for 31 elements by inductively coupled plasma mass spectrometry for 31 elements following nitric acid regia digestion. Data showing Ni, Cu, Zn, & Pb assays are plotted in figure #2. For the other 27 elements anomalous assays only are plotted.

Humus could indicate mineralization 275 metres subsurface. It is apparent that humus copper assays 20 PPM or greater predominate or appear to swarm around the centre of the west half of lot 7, south half of concession 6. This swarming of higher copper in humus assays also occurs for J. Wards and D. Wards 1993 OPAP programme in lot 9 and lot 4 Mann Twp. and lot 12 Newmarket Twp., all in the south half of concession 6. A glacial train southward from the lot 7 swarm can be traced for at least a kilometre southwards as indicated by the 1993 OPAP humus geochemistry reconnaissance. Glacial train direction for the area determined by OPAP reconnaissance humus geochemistry by J. Ward and D. Ward in 1993 is 170 degrees azimuth. Copper and nickel anomalous assays in humus cut off 800 metres north of the 5/6 concession line. Recent humus studies suggest that metals trapped in humus may rise hundreds of metres vertically through the bedrock from deep bedrock sources. The anomalous humus geochemical copper anomalies 800 metres north of the concession 5/6 line may therefore have risen from mineralization underlying the footwall of the peridotite some 275 metres subsurface.

PROPOSAL FOR 1995 OPAP PROGRAMME. The several Inco gravity anomalies in lots 7, 8 and 9 were noted to be in similar geological setting to the Zevely deposit, namely in mafic volcanics within 50 metres of the peridotite south contact and were concluded to be due to similar mineralization, ie, sulphide mineralization containing chalcopyrite, millerite, palladium and minor platinum. In addition it was concluded that weak electrical conductivity associated with these gravity highs enhances the probability that they are sulphide mineralization related. It was also concluded from the swarming of humus geochemical assays of 20 ppm copper or greater in the area surrounding the gravity anomalies suggested that they are chalcopyrite mineralization related.

It was also the opinion of the applicants that INPUT, gravity, and Induced Polarization were the only methods which satisfactorily detected suspected sulphide mineralization underlying 70 metres of peridotite, whereas VCEM and HEM electromagnetic surveys were effective in identifying subcropping mineralization in the mafic volcanics immediately south of the peridotite.

It was proposed that the airborne INPUT anomaly location in the south half of lot 9 concession 6 Mann Twp. be tested for nickel-copper PGE sulphides by a 150 metre vertical diamond drill hole. It was also proposed to further detail the footwall contact of the peridotite with two weeks of Induced Polarization surveying in lots 6, 7, 8 and 9, in order to detect possible economic sulphides underlying the peridotite.

OPAP 1995 DIAMOND DRILL Road Cutting.

From June 3rd to June 11th, 8 man days and 3 skidder days were required to cut a drill road 7 metres wide for 200 metres northward from the concession line gravel road. The drill area was cleared for 15 metres radius around the drill site, altogether requiring the cutting, limbing, skidding and stacking at the concession line roadside some 300 trees. Since the mix of trees was 50% hardwood and 50% conifers there were not enough logs of either to constitute commercial truck loads. It was therefore recommended by the MNR that the stacked logs be offered to local farmers to be disposed of as fuel wood.

After drilling was completed it required 5 man days, June 16, 17, Sept. 9th and Sept 23rd, with Sept 9 a 2 man day, to dispose of all the slash remaining in the drill road area as ordered by the MNR.

OPAP 1995 DIAMOND DRILLING.

On June 12th J. Ward spent a supervisory trip to South Porcupine in search of a diamond drill contractor. It was determined that Dominik Division of MAJOR DRILLING GROUP INTERNATIONAL INC. was immediately available provided J. Ward would pay \$12,000 by certified cheque in advance by Tues June 13th noon. On the morning of June 13th J. Ward returned to South Porcupine with the certified cheque and signed the drilling contract. On the afternoon of June 12th J.

Ward walked the Mann Twp drill road and drill site with Dominik's drilling supervisor. The diamond drill was moved to the site the afternoon of June 13 and commenced drilling the same afternoon. By noon June 16th 152 metres of wire line BQ core drilling including 9 metres of casing were completed and the hole stopped. The drill was demobilized back to South Porcupine the afternoon of June 16th. Total final cost of Dominik's Division drilling - 152 metres of wire line BQ drilling including mob and demob was \$9,201.98.

The drill core was transported in 2 vehicles by J. Ward and D. Ward to the residence of F. Ellgring, Sept. 21, for drill core logging. See Appendix for F. Ellgring's drill core log.

A contracted summary of the logs is as follows:

- 9 metres clay overburden
- 17 metres peridotite
- 3 metres talc-carbonate
- 8 metres mafic tuff
- 20 metres dacite flows
- 36 metres andesite flows, 5% Po stringers
- 17 metres graphitic, mafic tuff
- 8 metres graphitic argillite, 3% Po stringers
- 34 metres massive andesite

See figure 3 for diamond drill section plot.

OPAP95 ASSAYING.

6 character samples were selected by John Ward for multi element assays for a total of 56 elements. The only quasi economical assays of interest were 0.145 % Ni for sample #1 and 0.11% Zn for sample #5.

There was ample pyrite and graphite in the drill core to explain the airborne INPUT anomaly tested, therefore no follow up assaying was done. See Xral Labs report # 2911 in the Appendix.

Sample descriptions are as follows:

1. Serpentinized peridotite at 25.9 metres
2. Fine grained dacite, 3% pyrite at 38.3 metres
3. Dacite, 4% of 1 mm disseminated pyrite crystals at 47 metres
4. Andesite flow, 5% Po stringers (chloritic) 91 metres
5. Argillite 3% Po stringer with graphite at 116 metres
6. Massive andesite fine grained at 127 metres.

Precious metal assays for gold (15PPB) and Palladium (20PPB) were geochemically high for sample 6 massive andesite, especially considering the absence of visible sulphides

OPAP95 Line Cutting.

July 31st, Aug 2nd and Aug 3rd, for a total of 3 man days 800 metres of survey line extensions were cut, picketed and later chained in preparation for the IP survey in Sept. 1995.

Line Cutting is as follows:

- Line 200 west - 100 metres from 600 north to 700 north
- Line 00 west - 100 metres from 500 north to 600 north
- Line 200 east - 400 metres from 200 north to 600 north
- Baseline 400 north - 200 metres from 100 west to 100 east

OPAP95 INDUCED POLARIZATION SURVEY.

7 Induced polarization pseudo section IP spreads were read Sept. 6 to Sept. 19th inclusive using "a" spacings of 25 metres and 50 metres.

20th J.T.W.

The IP survey was carried out using a Hunttec 2.5 kilowatt system using a 428 millisecond delayed start of M1 integration. This along with dipole - dipole configuration, and overburden resistivities of the order of 40 ohm metres guaranteed electromagnetic coupling would be minimized. Note that this resulted in background Newmont IP chargeability units of the order of less than 0.1 units as opposed to the usual background of 1 or 2 units for the customary 50 milliseconds delay to start of M1 integration.

Minor chargeabilities were encountered in all 7 IP traverses indicating continuity of minor mineralization along the full length of the southern contact of the peridotite.

Listed anomalous chargeabilities are as follows:

- Line 9 west: 8 milliseconds at 245 north.
- Line 8 west: 4 milliseconds at 260 north.
- Line 8 west: 7 milliseconds at 325 north.
- Line 2 west: 3 milliseconds at 400 north.
- Line 1 west: 6 milliseconds at 440 north.
- Line 0 west: 5 milliseconds at 440 north.
- Line 2 east: 14 milliseconds at 440 north.
- Line 4 east: 12 milliseconds at 450 north.

Induced Polarization and resistivity pseudo section are shown in figures: 5a, b, c, d, e, f, and g.

CONCLUSION & RECOMMENDATIONS

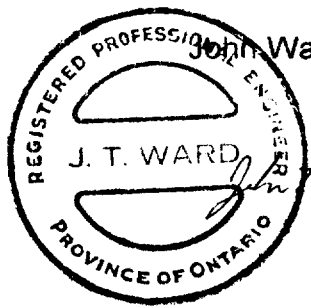
It is concluded that ample graphite and pyrrhotite were encountered in the OPAP95 drill hole to explain the OGS INPUT anomaly in the south half of lot 9 concession 6 Mann Twp.. It is further concluded that the induced polarization surveying in 1993 and 1995 OPAP programmes demonstrated continuity of minor

sulphide and graphite mineralization along the whole length of the southern contact of the peridotite and further that the mineralization did not return assays of economic interest.

It is therefore recommended that the only hope for this Mann Twp. property lies very far down-dip northward on the footwall contact of the peridotite. In this respect it is the opinion of the writers that continued development of the property will require geophysical and geochemical methods capable of probing in excess of 100 metres subsurface.

Respectfully submitted,

David Ward
MAY 21/97
David Ward

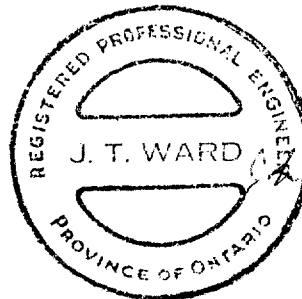
John Ward, PE

John Ward
MAY 21/97

CERTIFICATION

I hereby certify that I hold a 50% interest in the property covered by this Report of Work and that I personally performed this work with the assistance of David Ward, holder of 50% interest. I further certify that the field work described was completed between June 8th and Dec. 31st 1995. I further certify that I have been engaged in Geophysical mineral exploration in Canada for most of the last 35 years as a geophysicist, geophysical survey contractor and consulting engineer.

Former employment includes the positions of senior geophysicist at Barringer Research Ltd.; geophysicist, Derry Michener and Booth, consulting geologists; geophysicist, Patino Mining Ltd.; staff-geophysicist Urangesellschaft Canada Ltd.; and from 1974 to present as a self employed consulting engineer.

I further certify that my assistant in performing this work and 50% owner of the claims, David Ward, has 14 years experience as a geophysicist employed in Canada by St. Josephs Exploration Co.; Sulpetro Canada Ltd; and Bridgewater Resources Ltd.; and then as a self employed prospector 1990 to 1994



J. Ward
MAY 21/97

John T Ward, P.E.

REFERENCES

1. OGS Map 2205: Timmins, Kirkland Lake Geological Compilation
2. OGS Preliminary Map P755res Mann Twp. Geological Compilation
3. MNDM Map # 2577
4. OGS Timmins Area Airborne Electromagnetic Survey, Map 81049
5. OGS Map # 2594, Bouguer Gravity of Ontario East Central Sheet
6. OGS-NODA Summary Report 1995-96 pages 44-49.
7. OGS Study # 20, Nickel Sulfide Deposits Associated with Ultramafic Rocks of the Abitibi Belt -- Author: Paul A. Coad, 1979.
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9. T3740, Timmins Assesment File, Falconbridge (Mann Belt) 1995-7
10. T152, Noranda File, Timmins, Mann Twp.
11. T266, INCO File, Timmins, Mann Twp.
12. T1827, Rosario Resources File, Timmins, Mann Twp.
13. T1656, Hollinger, Timmins File, Mann Twp.
14. T3147, Shield Platinum, Timmins File, Mann Twp.
15. *T-173 ZEVELY SHOWING TIMMINS FILE MANN TWP.*
16. *NORTHERN MINER NOV 18, 1948 ZEVELY SHOWING.*
17. *T3461 WARD OPAP GROUP OP93, OP94 MANN TWP.*

Prospecting Experience & Training of ^{IP SURVEY CREW} J. Ward & D. Ward + T. WARD
^{OPAR 93}
^{MANITOBA}

① J. Ward: 9 WILLAMERE DRIVE SCARBOROUGH ONT. M1M-1W5
IP TRANSMITTER OPERATOR SEPT 6-20, 1995
SUPERVISING GEOPHYSICIST

Academic: 1946 - 53 Engineering geophysics U of T, many seminars 1957 - 1994, CIMM, Prospector & Developers Association, Geological Association of Canada, OGS seminars, Society of Exploration Geophysicists seminars.

Experience: Gravity meter operator 1948-1950 for Radar Exploration, Thunder Bay and Southern Saskatchewan, and for Iron Ore Co. of Canada 1950 in Labrador. Vertical Coil EM operator Inco 1951,2, Thompson Manitoba and in NWT.

Geophysicist 1953 to 1974 H.O. Seigel and Associates, Patino, Noranda, Derry Michener & Booth, & Barringer Research using all types of ground and Airborne electromagnetic prospecting, magnetics and induced polarization.

Consultant geophysicist and engineer 1974 to present.

Member of Society of Exploration Geophysicists. Fellow of the Geological Association of Canada.

② David Ward: Academic: Attended numerous OGS seminars
1985 to present: 152 OAKRIDGE DRIVE SCARBOROUGH ONT M1M-2A8
IP RECEIVER OPERATOR SEPT 6-20, 1995

Geophysical Operator, St. Joseph's Exploration 1980 to 1985, Sulpetro and Breakwater Resources 1985 to 1992 operating gravity meter, Max-Min HLEM, IP, and UTEM in Quebec, Swayze, Thunder Bay, Red Lake, Lynn Lake, Yukon & BC.

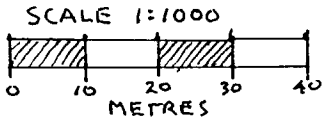
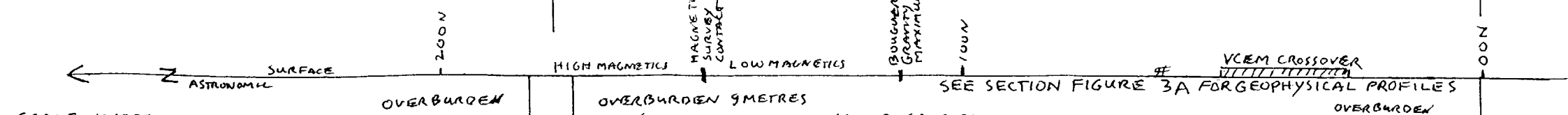
Specific experience with IP surveying: Rundle Mine Swayze 1980, Belleterre 1975, Rouyn-Noranda to Malartic Quebec for St. Josephs Explorations and Sulpetro 1981 to 1986. Red Lake, Ont. and Cadieux Mine, Renfrew Ont. for St Joseph's Exploration and Sulpetro 1981 to 1886.

③ THORAN WARD 152 OAKRIDGE DRIVE SCARBOROUGH ONT. M1M-2A8
IP SURVEY ASSISTANT SEPT 6-21, 1995 -

OPAP95 MANN TWP. VERTICAL DRILLHOLE SECTION FACING EAST

FIG. # 3

GPS 5413040N 497400E
 LOCATION 180 METRES NORTH OF
 CONCESSION LINE 5/6 ALSO 257 METRES WEST OF LOT LINE 8/9

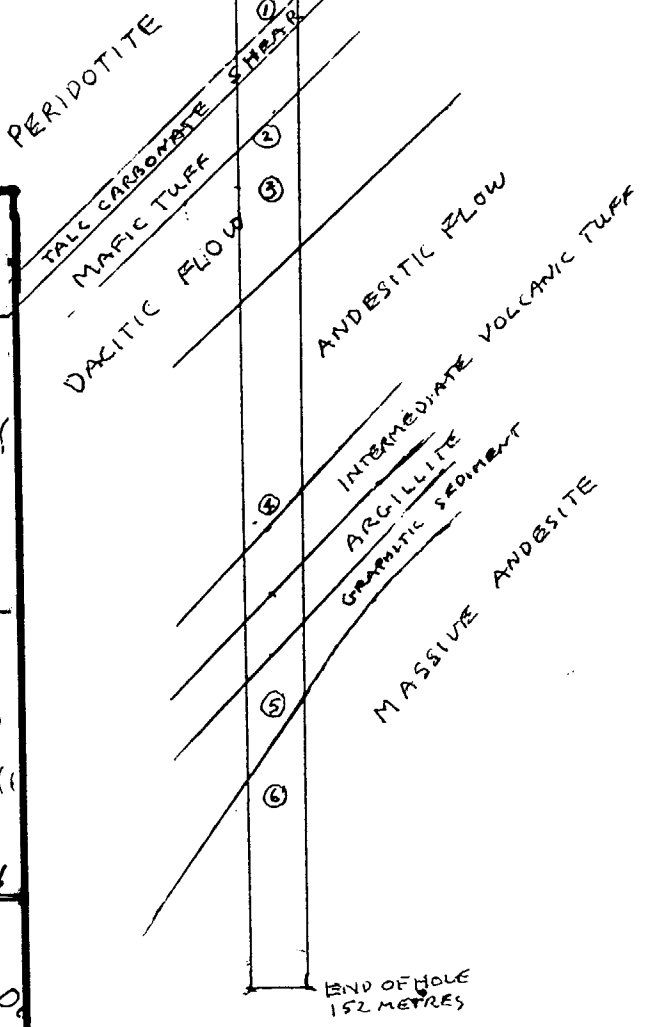
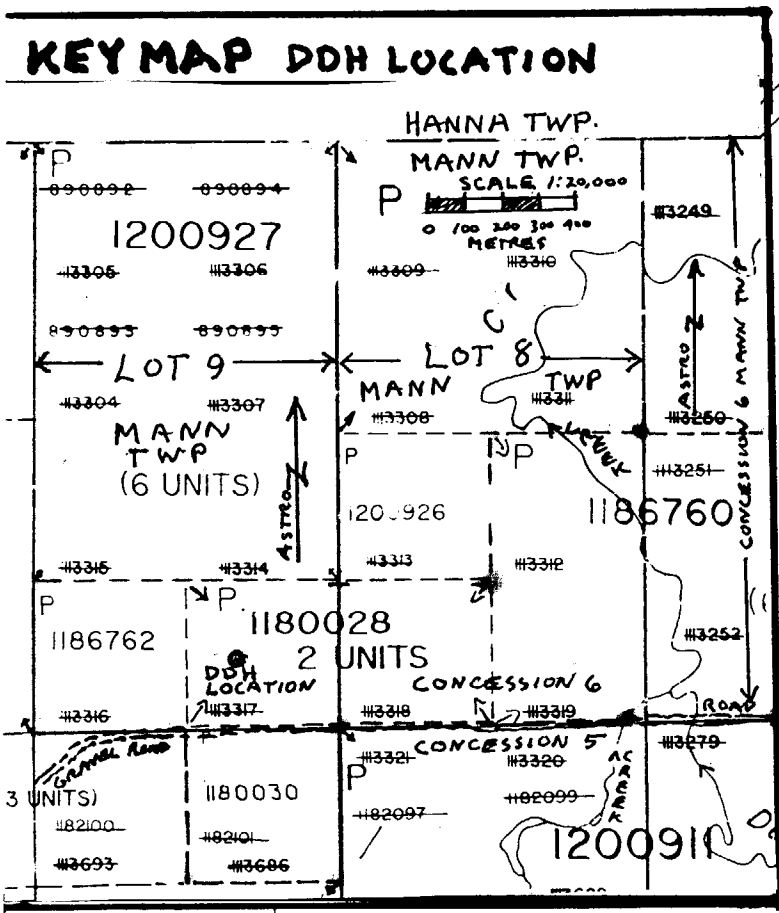


ASSAYED SAMPLES ARE ALL 0.1 METRE CORE LENGTH

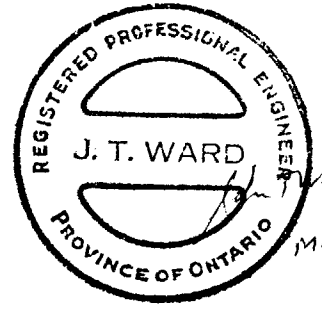
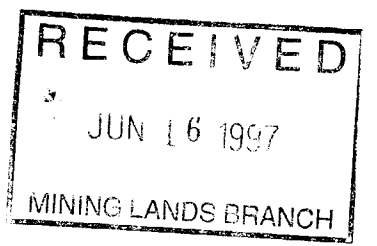
- SAMPLE #1 PERIDOTITE 0.145% Ni 0.18% Cr 32.2% MgO 45ppb B
- SAMPLE #2 DACITIC FLOW 3% Pyrite 13.3% CaO
- SAMPLE #3 DACITIC FLOW 4% FINE Pyrite Crystals SELECT SAMPLE 25.0% CaO

2.17406

CLAIM P1180028
 CONCESSION LINE 6
 CONCESSION LINE 5
 CLAIM P1180030



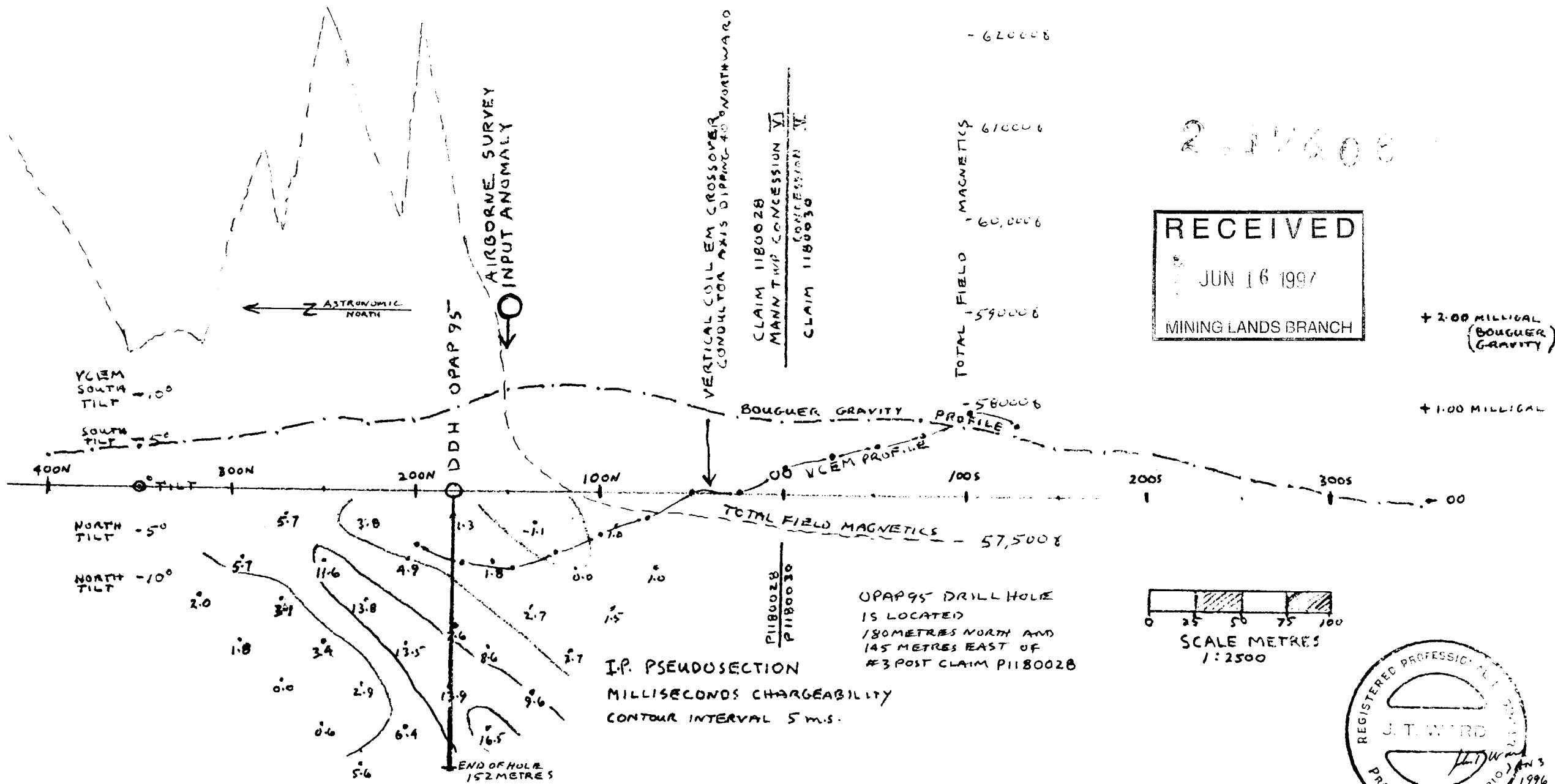
- SAMPLE #4 ANDESITE FLOW 10% Pyrrhotite Stringers 13.2% CaO 1.4 ppm Ag, 17ppm Sn
- SAMPLE #5 GRANITIC ARGILLITE 3% Pyrrhotite stringers 0.11% Zn, 16 ppm Sn, 1.2 ppm Ag.
- SAMPLE #6 MASSIVE ANDESITE NO VISIBLE SULPHIDES 15ppb Au, 22ppb Pd, 11ppm Sn, 9.6% CaO



11/21/97

OPAP 1995 DIAMOND DRILL HOLE FACING EAST

Fig. # 4
SHOWING GEOPHYSICS



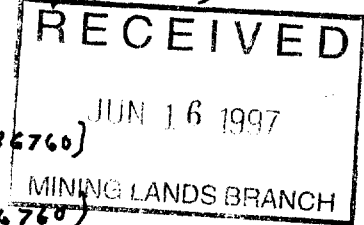
SEPT. 6 TO SEPT 20 1995 INCLUSIVE

OPAP 95 PROJECT MANN TWP J. WARD + D. WARD

IP SURVEY LOG 10 DAYS SURVEYING

IP.
Σ DAYS

- ① SEPT 6 SET UP LZW READ NORTH HALF OF SPREAD (P1186760)
- ② SEPT 7 READ SOUTH HALF OF LZW SPREAD MOVED TO L1W (P1186760)
- ③ SEPT 8 READ ALL OF LINE 1W (P1186760)
- SEPT 9 RAIN
- ④ SEPT 10 MOVED TO L00 / READ SOUTH HALF OF L00 (P1180029)
- ⑤ SEPT 11 READ NORTH HALF OF L00 / MOVED TO LINE 2E (P1180029)
- ⑥ SEPT 12 READ NORTH HALF AND SOUTH HALF LINE 2E (P1180029)
- SEPT 13 RAIN
- ⑦ SEPT 14 MOVED TO L4E / READ NORTH HALF L4E (P1180029)
- ⑧ SEPT 15 READ SOUTH HALF L4E MOVED TO L9W (P1180029 / P1186760)
- SEPT 16 RAIN
- ⑨ SEPT 17 READ ALL OF LINE 9W MOVED TO L8W (P1186760)
- ⑨ 1/2 SEPT 18 (1/2 DAY) READING NORTH HALF OF L8W (P1186760)
- SEPT 19 RAIN
- ⑩ SEPT 20 (1/2 DAY) READING L8W SOUTH HALF OF SPREAD / MOVING OUT IP GEAR (P1186760)



Σ 10 DAYS IP SURVEYING

5 1/2 DAYS IP SURVEYING CLAIM P1186760 (55%)
 4 1/2 DAYS IP SURVEYING CLAIM P1180029 (45%)

2.17406



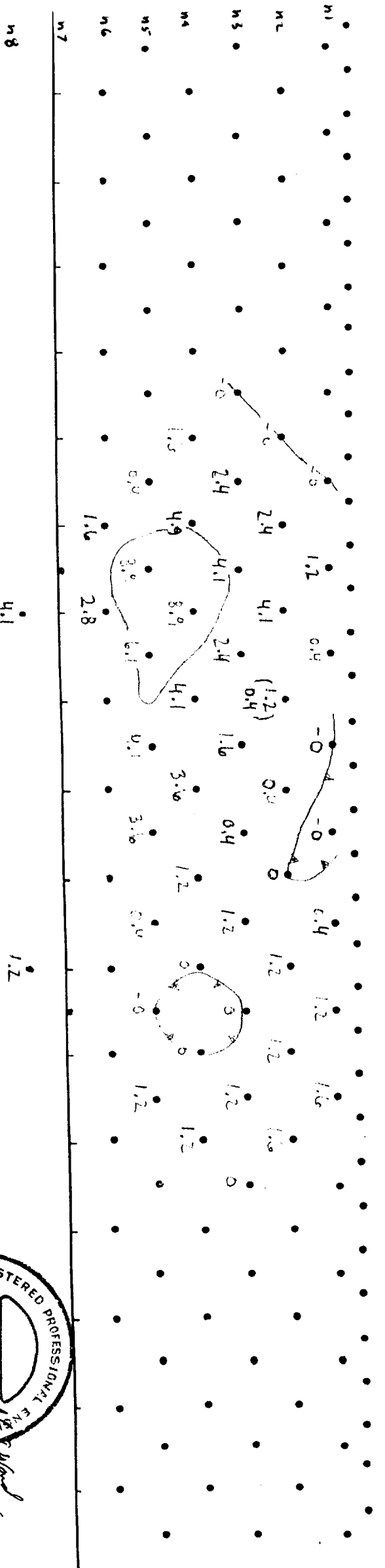
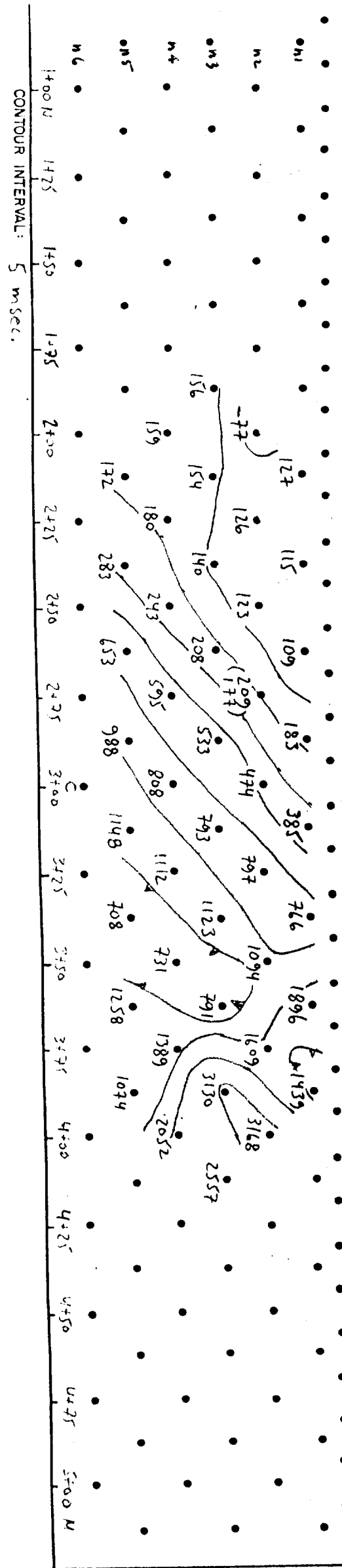
MAY 4 / 97

1+00 N 1+25 1+50 1+75 2+00 2+25 2+50 2+75 3+00 3+25 3+50 3+75 4+00 4+25 4+50 4+75 5+00 N

CONTOUR INTERVAL: LOGARITHMIC

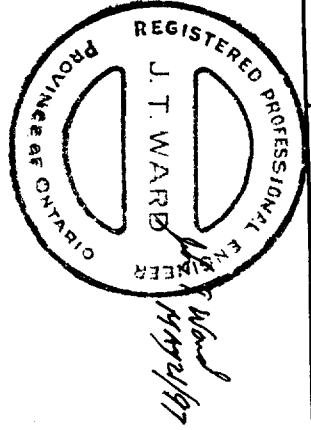
212406

Z → N 176.5A



Chargeability (m-sec)

Apparent Resistivity (ohm-m)



PROJECT MANN TWP.
LOT 7 (P1186760)

DATE SEP 15-17/1995
LINE 9+00 W BEARING N-S
SPREAD 25 m
DIPOLE-DIPole

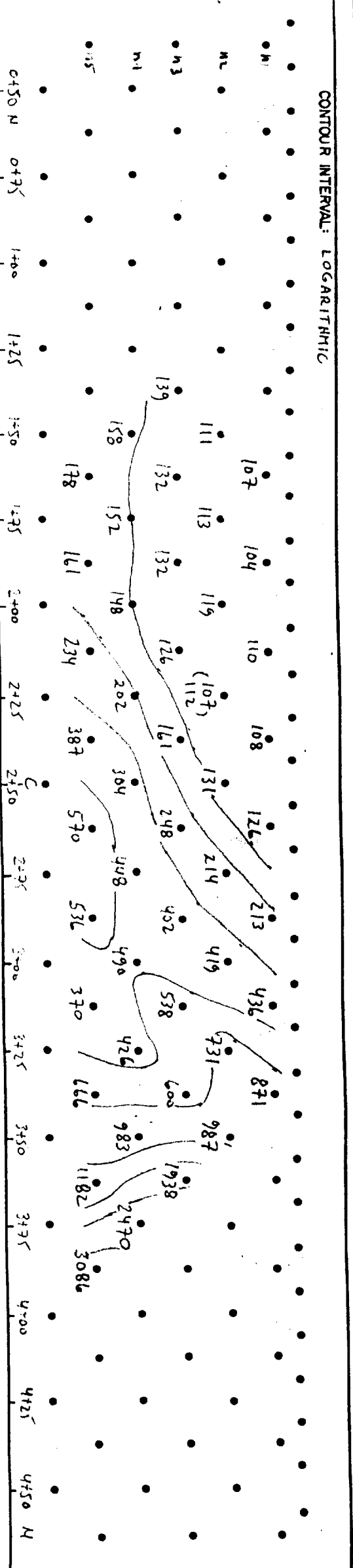
0+50 N 0+75 1+00 1+25 1+50 1+75 2+00 2+25 2+50 N 2+75 3+00 3+25 3+50 3+75 4+00 4+25 4+50 N

CONTOUR INTERVAL: LOGARITHMIC

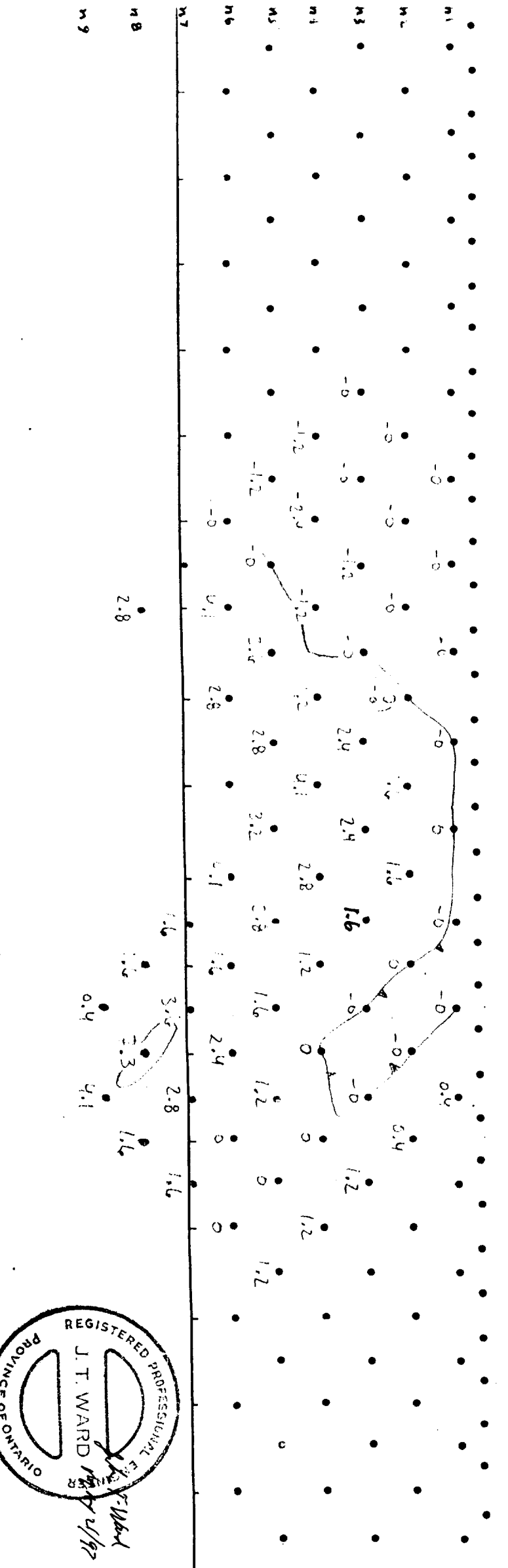
2-17406
2+50 N



FIG. 5B



CONTOUR INTERVAL: 5 msec.



DATE SEPT 17-20/1995

LINE 8+00 W BEARING N-S
SPREAD 25 m

DIPOLE-DIPOLE

MANN TWP
LOT 7 (P1186760)

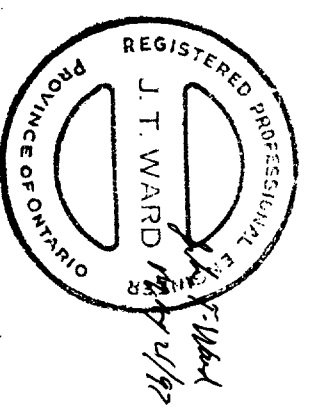
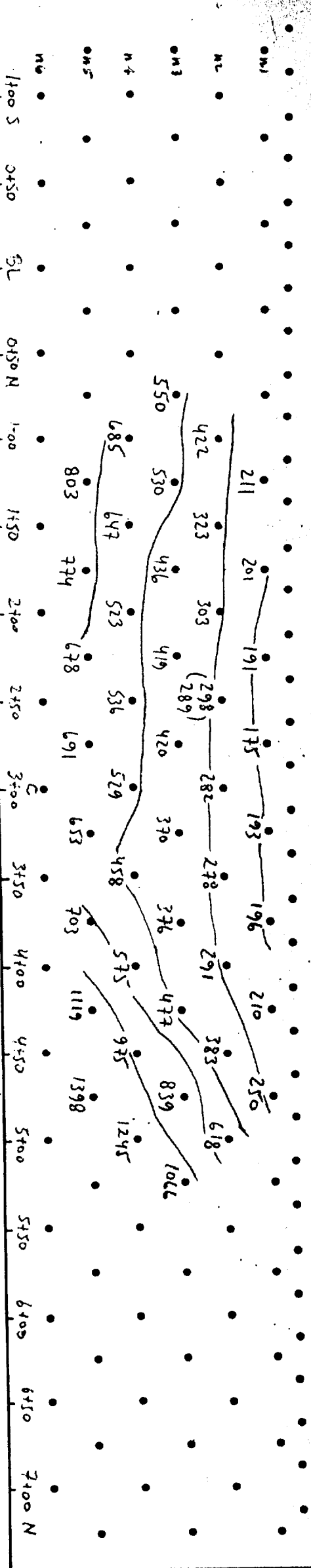


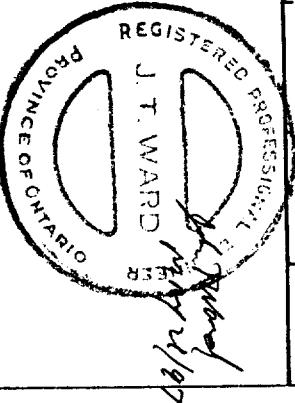
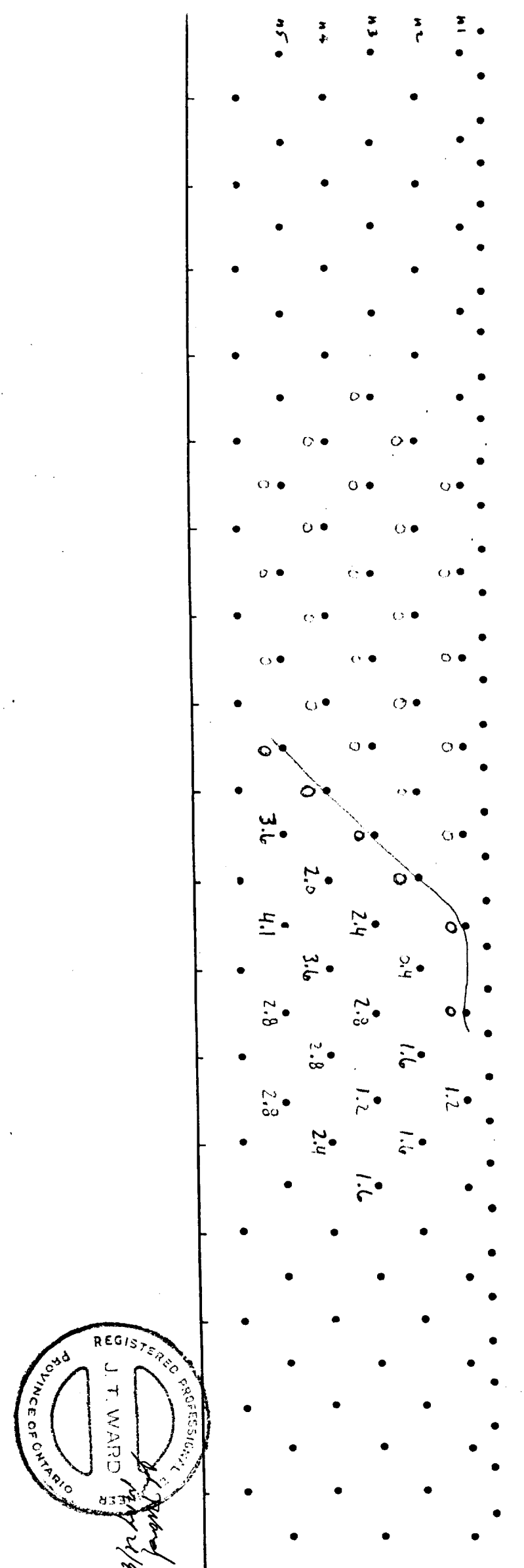
FIG. 5C

1700 S 0450 S BL 0450 N 1400 180° 127° 4 0506 3100 N 3150 4400 4450 5400 5450 6400 6450 7400 N

CONTOUR INTERVAL: LOGARITHMIC



CONTOUR INTERVAL: 5 msec.



DATE SEPT 6-7/1995
 LINE 2+00 W BEARING
 SPREAD 50 m M-N-S

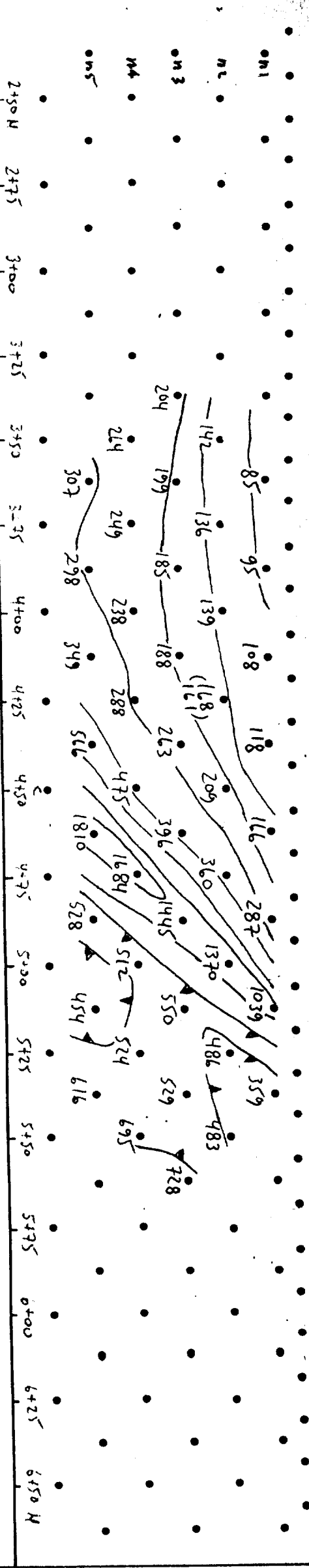
DIPOLE-DIPOLE

MIAMI TWP.
 LOT 7 (P1186760)

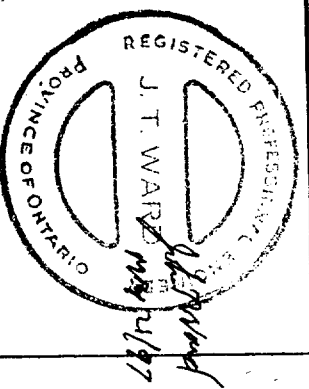
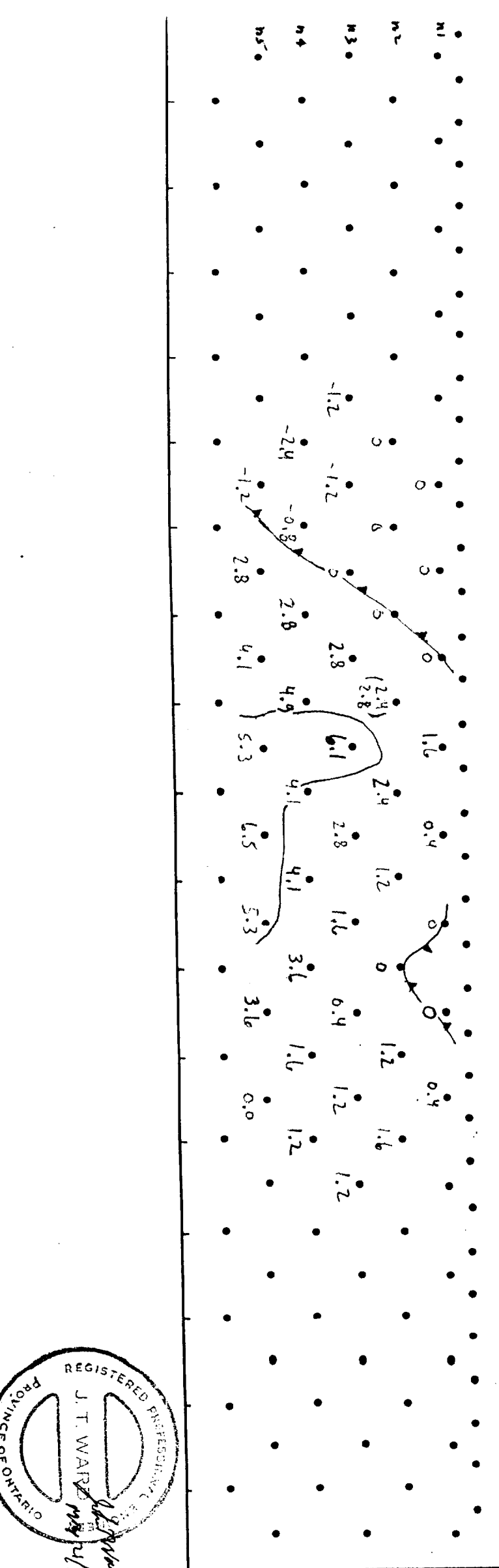
FIG 5D

2450 N 2475 3400 3425 3450 3475 3498° 2124 046 M 4475 5400 5425 5450 5475 6400 6425 6450 N

CONTOUR INTERVAL: LOGARITHMIC



CONTOUR INTERVAL: 5 msec.



MANN TWP
LOT 7 (P1186760)

DATE SEPT. 7-8/1995
LINE 1+00 W
DIPOLZ-DIPOLZ SPREAD 25 m BEARING N-S

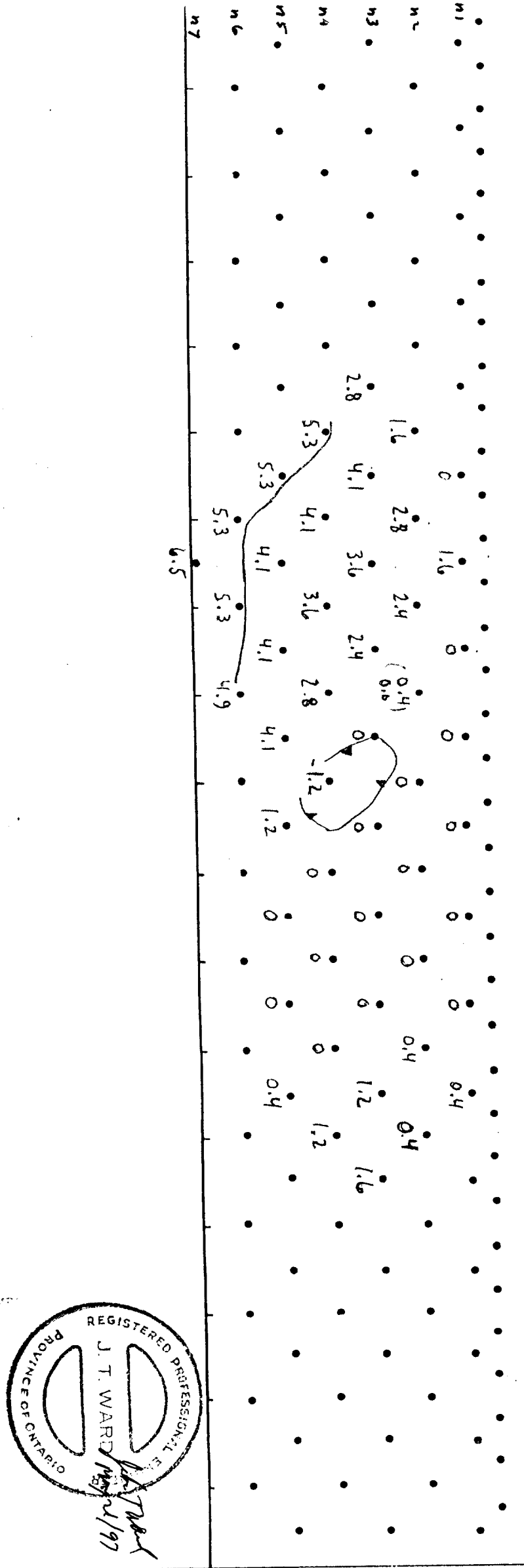
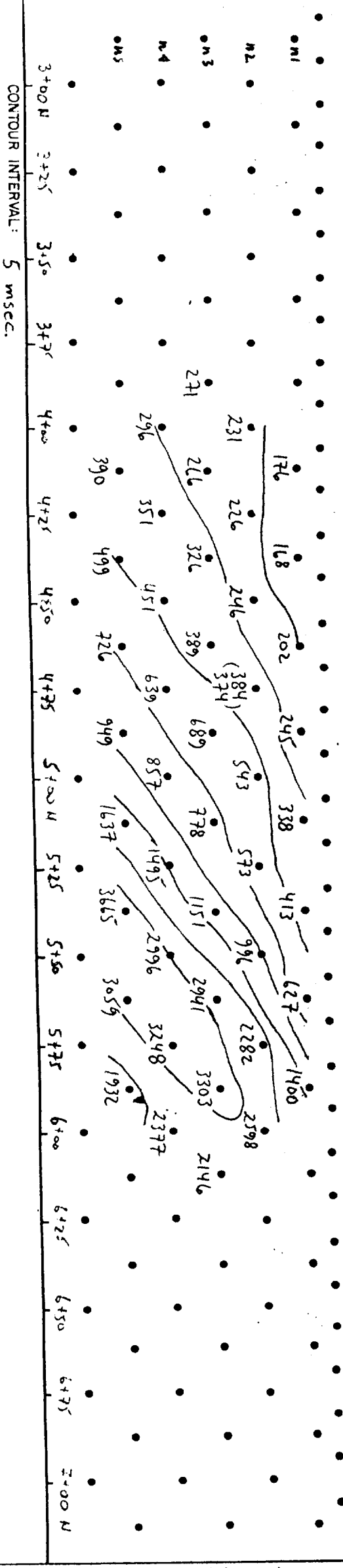
2.17406



FIG 5 E

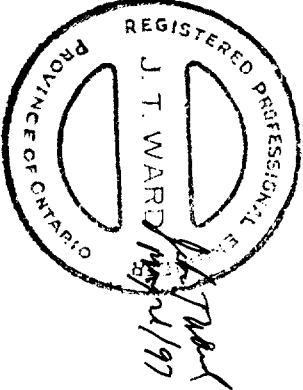
3400 N 3425 3450 3475 4400 4425 4450 4475 5400 N 5425 5450 5475 6400 6425 6450 6475 7400 N

CONTOUR INTERVAL: LOGARITHMIC



Chargeability (m-sec)

Apparent Resistivity (ohm-m)



DATE SEPT 10-11/1995

LINE 0+00

BEARING

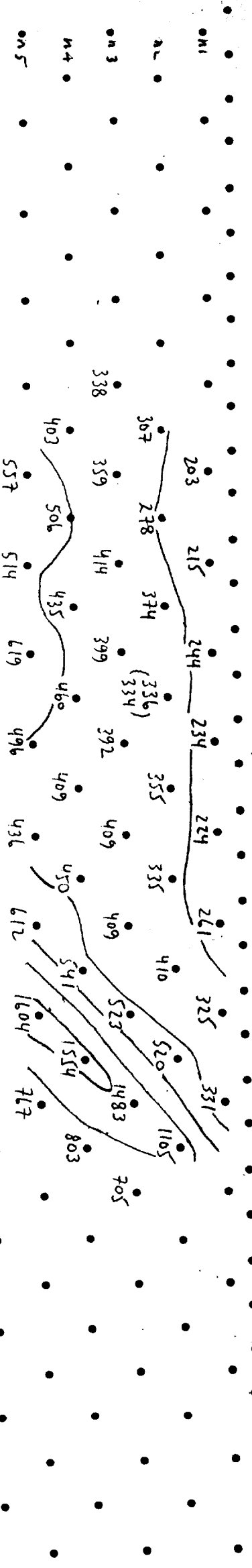
DIPOLE-DIPOLE SPREAD 25 m

N-S

PROJECT MANN TWP. LOT 7 (P1180029)

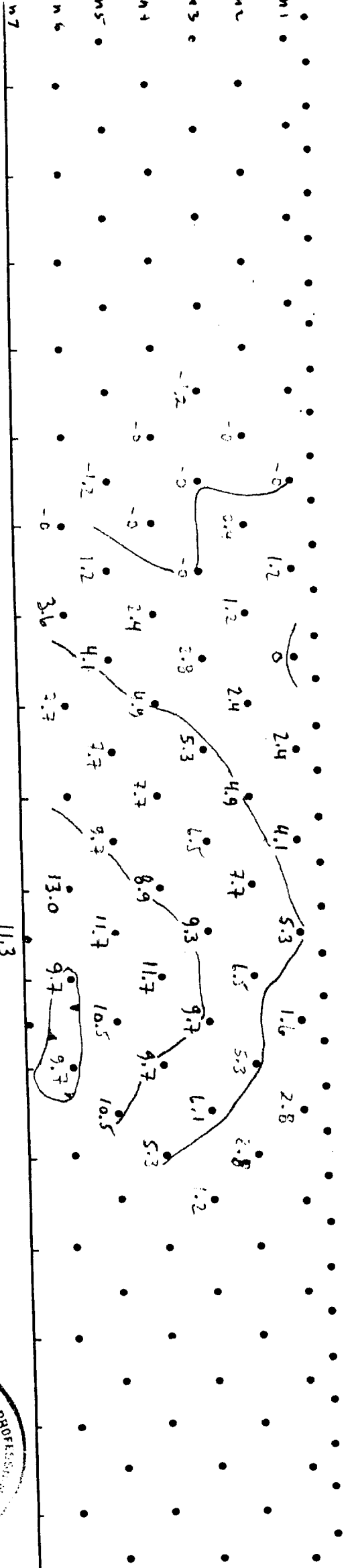
2400 M 2425 2450 2475 3400 3425 3450 3475 4400 M 4425 4450 4475 5400 5425 5450 5475 6400 M

CONTOUR INTERVAL: LOGARITHMIC

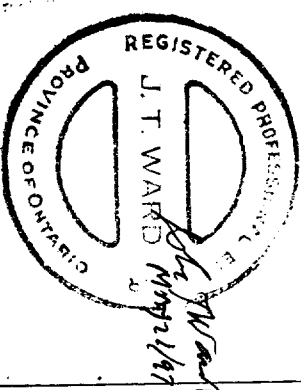


Apparent Resistivity (ohm-m)

CONTOUR INTERVAL: 5 msec.



Chargeability (m-sec)



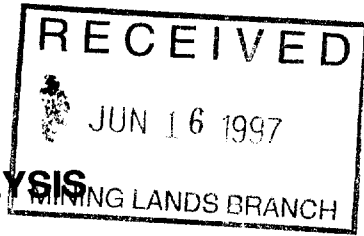
MANN TWP.
LOT 6 (P1180029)

DATE SEPT 14-15/1995
LINE 4+00 E
DIPOLE-DIPOLE SPREAD 25 m BARRING N-S



XRAL Laboratories
A Division of SGS Canada Inc.

1885 Leslie Street
Don Mills, Ont.
Canada M3B 3J4
Telephone (416) 445-5755
Fax (416) 445-4152



CERTIFICATE OF ANALYSIS
REPORT 2911

TO: JOHN T. WARD
9 WILLAMERE DRIVE
SCARBOROUGH, ONTARIO
M1M 1W5

CUSTOMER No. 40

DATE SUBMITTED
31-Aug-95

2.17406

WORKORDER 5104-Q5

TOTAL PAGES 7

6 ROCKS

	METHOD	DETECTION LIMIT	METHOD CODE		METHOD	DETECTION LIMIT	METHOD CODE
AU PPB	FADCP	1.		AG PPM	ICP	.5	
BE PPM	ICP	1.		CD PPM	ICP	1.	
B PPM	ICP	10.		SN PPM	XRF	10.	
C %	LECO	.01		SB PPM	NA	.2	
WRMAJ %	XRF-F	.01		CS PPM	NA	1.	
S %	LECO	.01		LA PPM	NA	.5	
CL %	WET	.005		CE PPM	NA	3.	
SC PPM	NA	.5		ND PPM	NA	5.	
V PPM	ICP	10.		SM PPM	NA	.1	
CR PPM	NA	2.		EU PPM	NA	.2	
CO PPM	ICP	1.		TB PPM	NA	.5	
NI PPM	ICP	1.		YB PPM	NA	.2	
CU PPM	ICP	.5		LU PPM	NA	.05	
ZN PPM	ICP	.5		HF PPM	NA	1.	
GE PPM	ICP	10.		TA PPM	NA	1.	
AS PPM	NA	1.		W PPM	NA	3.	
SE PPM	NA	3.		PT PPB	FADCP	10.	
BR PPM	NA	1.		PB PPM	ICP	2.	
WRMIN PPM	XRF-F	10.		BI PPM	ICP	3.	
MO PPM	ICP	1.		TH PPM	NA	1.	
PD PPB	FADCP	1.		U PPM	NA	.5	

*** UNLESS INSTRUCTED OTHERWISE WE WILL DISCARD PULPS IN 90 DAYS ***
AND REJECTS IN 30 DAYS FROM THE DATE OF THIS REPORT

DATE 21-SEP-95

CERTIFIED BY

Jean H. Opdebeeck, General Manager

XRAL

21-SEP-95

REPORT 2911

WORKORDER 5104-Q5

SAMPLE	AU PPB FADCP	BE PPM ICP	B PPM ICP	C % LECO	S % LECO	CL % WET	SC PPM NA	V PPM ICP
1	<1	<1	45	2.97	.07	.005	6.1	27
2	<1	2	<10	2.45	.62	<.005	32.3	216
3	<1	1	<10	4.51	2.37	<.005	18.2	108
4	<1	3	<10	2.79	.76	.007	32.3	244
5	10	<1	12	3.57	3.56	.009	4.4	33
6	15	2	<10	.04	.13	.005	42.3	306
D 1	<1	<1	42	--	--	--	6.1	27

D - QUALITY CONTROL DUPLICATE

XRAL

21-SEP-95

REPORT 2911

WORKORDER 5104-Q5

SAMPLE	CR PPM	CO PPM	NI PPM	CU PPM	ZN PPM	GE PPM	AS PPM	SE PPM
	NA	ICP	ICP	ICP	ICP	ICP	NA	NA
1	1800	78	1450	43.6	30.8	<10	1	<3
2	230	33	101	134	77.5	<10	1	<3
3	170	36	66	186	37.7	<10	6	<3
4	94	37	41	144	87.3	<10	<1	<3
5	20	57	66	217	1100	<10	50	<3
6	150	41	62	98.0	89.7	<10	1	<3
D 1	1800	79	1460	43.9	28.0	<10	1	<3

D - QUALITY CONTROL DUPLICATE

XRAL

21-SEP-95

REPORT 2911

WORKORDER 5104-Q5

SAMPLE	BR PPM	MO PPM	PD PPB	AG PPM	CD PPM	SN PPM	SB PPM	CS PPM
	NA	ICP	FADCP	ICP	ICP	XRF	NA	NA
1	4	<1	<1	.9	<1	<10	.3	<1
2	2	<1	<1	.7	<1	<10	<.2	<1
3	3	<1	4	.7	<1	<10	.2	1
4	2	<1	<1	1.4	<1	17	<.2	<1
5	4	4	5	1.2	<1	16	.5	<1
6	2	<1	22	<.5	<1	11	.2	<1
D 1	3	<1	<1	1.0	<1	<10	.4	1

D - QUALITY CONTROL DUPLICATE

XRAL

21-SEP-95

REPORT 2911

WORKORDER 5104-Q5

SAMPLE	LA PPM NA	CE PPM NA	ND PPM NA	SM PPM NA	EU PPM NA	TB PPM NA	YB PPM NA	LU PPM NA
1	.7	<3	<5	.1	<.2	<.5	<.2	<.05
2	8.2	19	10	2.1	.6	<.5	1.4	.22
3	3.7	8	5	1.3	.6	<.5	1.2	.18
4	4.1	11	7	1.9	.8	<.5	2.0	.30
5	5.4	12	7	1.6	.6	<.5	.8	.11
6	3.5	10	6	2.3	1.1	<.5	2.4	.36
D 1	.6	<3	<5	.1	<.2	<.5	<.2	<.05

D - QUALITY CONTROL DUPLICATE

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21-SEP-95

REPORT 2911

WORKORDER 5104-Q5

SAMPLE	HF PPM	TA PPM	W PPM	PT PPB	PB PPM	BI PPM	TH PPM	U PPM
	NA	NA	NA	FADCP	ICP	ICP	NA	NA
1	<1	<1	<3	<10	2	<3	<1	<.5
2	<1	<1	<3	<10	<2	<3	1	<.5
3	<1	<1	<3	<10	4	<3	<1	<.5
4	1	<1	<3	<10	<2	4	<1	.5
5	2	<1	<3	<10	16	<3	1	<.5
6	2	<1	<3	<10	<2	<3	<1	<.5
D 1	<1	<1	<3	<10	<2	<3	<1	<.5

D - QUALITY CONTROL DUPLICATE

XRAL

XRF - WHOLE ROCK ANALYSIS

21-SEP-95

REPORT 2911

WORKORDER 5104

SAMPLE \ %	SI02	AL2O3	CAO	MGO	NA2O	K2O	FE2O3	MNO	TIO2	P2O5	LOI	SUM
1	32.2	.85	7.12	32.2	.06	<.01	7.60	.42	.047	<.01	19.8	100.3
2	42.5	12.2	13.3	4.14	2.83	.08	13.2	.23	.711	.07	10.7	100.0
3	37.9	6.73	25.0	3.05	.08	.07	9.50	.28	.380	.04	15.2	98.3
4	34.4	11.0	13.2	4.56	.12	<.01	23.1	.48	.915	.06	12.3	100.2
5	76.8	4.31	2.94	.60	.32	1.31	8.41	.06	.176	.06	4.65	99.7
6	47.2	14.0	9.60	6.65	2.08	.22	15.5	.22	1.13	.08	2.15	98.9

*** XRF W.R.A. SUMS INCLUDE ALL ELEMENTS DETERMINED. FOR SUMMATION, ELEMENTS ARE CALCULATED AS OXIDES ***

XRAL

XRF - WHOLE ROCK ANALYSIS

21-SEP-95

REPORT 2911

WORKORDER 5104

SAMPLE \ PPM	RB	SR	Y	ZR	NB	BA
1	<10	92	<10	<10	<10	131
2	<10	510	15	55	<10	114
3	<10	307	19	36	<10	92
4	<10	43	18	59	<10	<50
5	33	30	<10	65	<10	79
6	<10	140	22	72	<10	<50

D - QUALITY CONTROL DUPLICATE



Member of the SGS Group (Société Générale de Surveillance)

RE 2.17406

JUN 16 1997



FIG. # 1A

John T. Ward
MAY 21/97

ONTARIO
DIVISION OF MINES

HONOURABLE LEO BERNIER, Minister of Natural Resources

W. Q. MACNEE, Deputy Minister of Natural Resources

C. A. Jewett, Executive Director, Division of Mines

E. G. Pye, Director, Geological Branch

MINING LANDS BRANCH

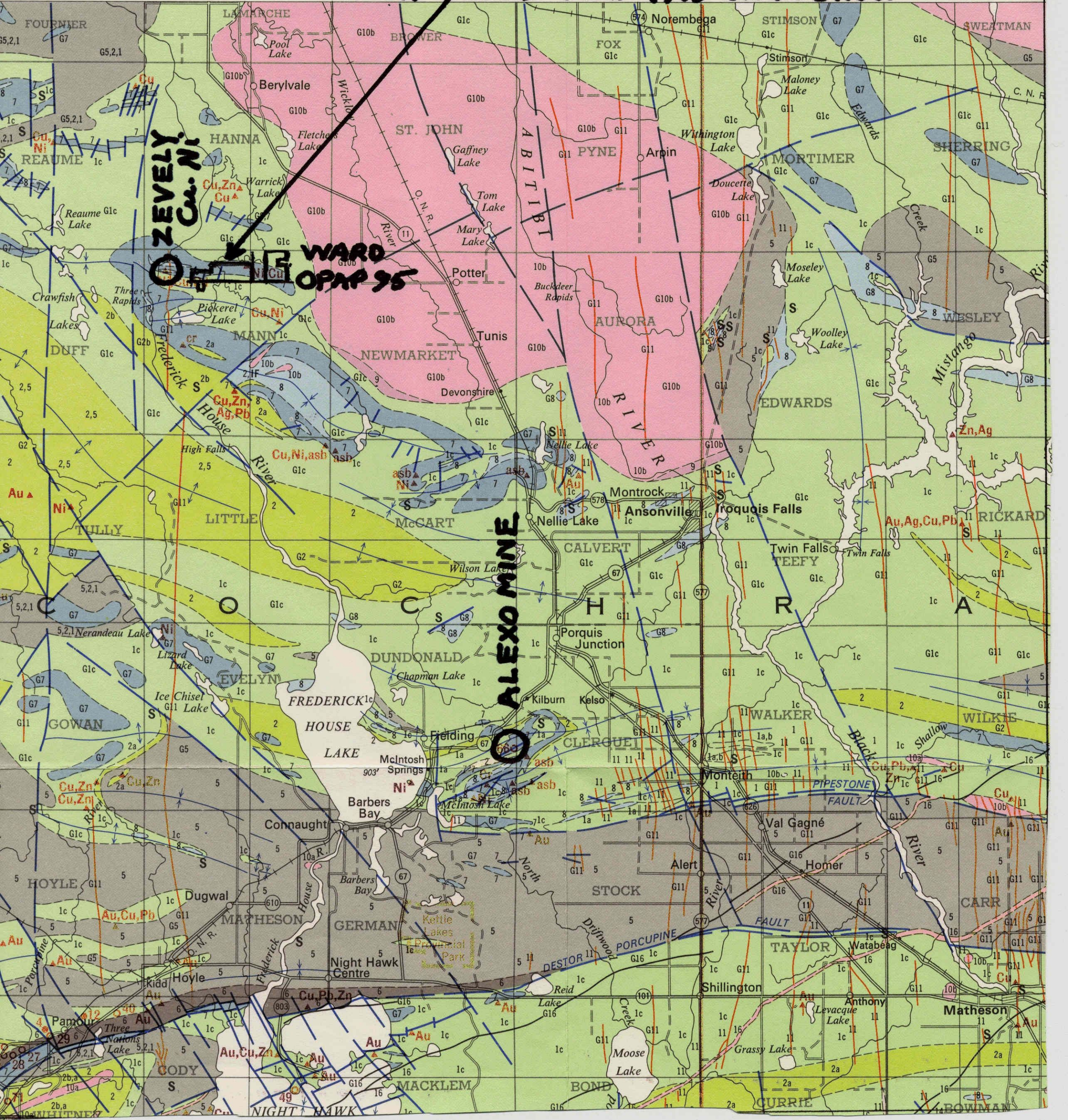
10 KILOMETRES
SCALE 1:253440

MAP # 2205 TIMMINS-KIRKLAND LAKE



LOCATION WARD OPAP 1995 CLAIM GROUP

Adjoins Map 2161 Coral Rapids Cochrane



ZEVELY
Cu, Ni

WARD OPAP 95

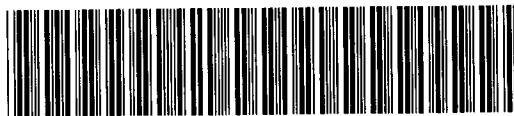
ALEXO MINE



Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Diamond Journal de
Drilling forage au
Log forage au
diamant



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et le croquis annexé

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chaque page

Hole No. Forage n° OPAP -1995	Page No. Page n° /
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Drilling Company Compagnie de forage DOMINIK DRILLING (I98I) INC.		Collar Elevation Élévation du collier	Bearing of hole from true North/Position du forage par rapport au nord vrai	Total Footage Avancement total du forage 152 METRES	Dip of Hole at Inclinaison du forage au Collar/collier 90°	Address/Location where core stored Adresse/l'endroit où la carotte est stockée 9 Willamere Drive Scarborough Ont.	Map Reference No. N° de référence sur la carte G 3537	Claim No. N° de concession minière P-II80028
Date Hole Started Date de commencement du forage JUNE 14 1995	Date Completed Date d'achèvement June 16 1995	Date Logged Date d'inscription au journal '95/10/06	Logged by Inscrit par F.H. ELLGRING			Location (Twp. Lot, Con. or Lat. and Long.) Emplacement (canton, lot, concession, ou latitude et longitude) SE ¼ SOUTH ½ Lot 9 Concession 6 MANN TOWNSHIP GPS. S413040N, 497400E.		
Exploration Co., Owner or Optionee Compagnie d'exploration, propriétaire ou titulaire d'option John Ward & David Ward		Date Submitted Date de dépôt May 21/97	Submitted by (Signature) Déposé par (signature) John F. Ward			Property Name Nom de la propriété J.Ward & D.Ward MANN TWP.Property		

Footage/Avancement		Rock Type Type de roche	Description (Colour, grain size, texture, minerals, alteration, etc.) Description (Couleur, granulométrie, texture, minéraux, transformation, etc.)	Planar Features Angle/angle des caractéristiques planar	Core Specimen Footage / Longueur en pieds des carottes prélevées	Your Sample No. N° d'échantillon du prospecteur	Sample Footage/ Niveau de pré- levement de l'échantillon (en pieds) From/De To/A	Sample Length Longueur de l'échantillon	Assays †/Analyses minéralurgiques
0 m	9.14m	CLAY	OVERBURDEN, LACUSTRINE CLAY						
9.14	10.97	ULTRA MAFIC	PERIDOTITE, PARTLY SERP'D, MASSIVE, RELICT FELDSPARS, 1 mm. BLACK PHENOCRYSTS. THINLY SERP'D FRACTURES SHOWING ½ mm. CROSS FIBRE. BLOCKY FRAGMENTAL SECTION WITH CALCITE HEALING. MODERATELY MAGNETIC. BLACK WITH BLUEISH HUE						
10.97	17.07	ULTRA MAFIC	PERIDOTITE, SIMILAR TO ABOVE, LESS SERP. INCREASINGLY FRACT- URED AND CARBONATE HEALED. FRACTURES AT 20° TO 80° TO CORE MODERATELY MAGNETIC.						
17.07	26.21	ULTRA MAFIC	PERIDOTITE, ALTERED SHEAR ZONE, HIGHLY FOLIATED AT 45°, CARBONATE AND SERP'D SLIPPAGE PLANES WITH PARALLEL SLIP- FIBRE. INCOMPETENT BROKEN SECTIONS. QTZ.-CARB GASH VEINS. BRECCIATED. MODERATELY MAGNETIC. BLACK WITH NO BLUE HUE.			serpentinized peridotite I	25.8 25.9	0.1	(0.145% Ni) (0.18% Cr) (32.2% MgO) (45 ppb B)
26.21	29.5	MAFIC	TALC-CARBONATE HIGHLY SHEAR ZONE, CHLORITIC AND DUCTILE. CRUMBLY, INCOMPETENT, MYLONITIC. DECREASE IN MAGNETISM.						
29.5	29.5		CONTACT, SHARP, AT 40° TO CORE.						
29.5	32.5	FLOW	TUFF. MAFIC LAPILLI (BLACK) ELONGATED. INTENSE SHEARING GREEN. RARE CPY. SPECKS. SCHISTOSITY AT 40° TO CORE. NON MAGNETIC.						
32.5	32.5		CONTACT, SHARP, AT 40° TO CORE.						

2.17406

RECEIVED
JUN 16 1997
MINING LANDS BRANCH

c204 (03/91)

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.
* Exemples de caractéristiques : foliation, schistosité, stratification. L'angle est mesuré par rapport à l'axe longitudinal de la carotte.

† Additional credit available. See Assessment Work Regulation.
† Des crédits supplémentaires sont offerts. Consulter les règlements relatifs aux travaux d'évaluation.
Nota : Dans cette formule, lorsqu'il désigne des personnes, le masculin est utilisé au sens neutre.



Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

**Diamond Journal de
Drilling forage au
Log diamant**

Complete this form and
related sketch in duplicate.
Remplir en deux exemplaires la
présente formule et le croquis annexé

Fill in on every page
Remplir ces cases à
chaque page

Hole No. Forage n° OPAP -I995	Page No. Page n° 2
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Drilling Company Compagnie de forage DOMINIK DRILLING (I98I) INC.		Collar Elevation Élévation du collier	Bearing of hole from true North/Position du forage par rapport au nord vrai	Total Footage Avancement total du forage 152 METRES	Dip of Hole at Inclinaison du forage au Collar/collier 90°	Address/Location where core stored Adresse/endroit où la carotte est stockée 9 Willamere Drive Scarborough Ont.	Map Reference No. N° de référence sur la carte G 3537	Claim No. N° de concession minière P-II80028
Date Hole Started Date de commencement du forage JUNE I4 I995	Date Completed Date d'achèvement June I6 I995	Date Logged Date d'inscription au journal '95/10/06	Logged by Inscrit par F.H. ELLGRING	FL/Pl		Location (Twp, Lot, Con. or Lat. and Long.) Emplacement (canton, lot, concession, ou latitude et longitude) SE ¼ SOUTH ½ Lot 9 Concession 6 MANN TOWNSHIP		
Exploration Co., Owner or Options Compagnie d'exploration, propriétaire ou titulaire d'option John Ward & David Ward		Date Submitted Date de dépôt	Submitted by (Signature) Déposé par (signature)	FL/Pl				
				FL/Pl				
				FL/Pl				
Property Name Nom de la propriété J.Ward & D.Ward MANN TWP.Property								

Footage/Avancement		Rock Type Type de roche	Description (Colour, grain size, texture, minerals, alteration, etc.) Description (Couleur, granulométrie, texture, minéraux, transformation, etc.)	Planar Feature	Core Specimen	Yield Sample No.	Sample Footage/niveau de pré-		Sample Length Longueur de l'échantillon	Assays †/Analyses minéralurgiques	
From/De	To/A			Angle /Angle des caractéristiques plans	Footage / Longueur en pieds des carottes prélevées	N° d'échantillon ou prospecteur	From/De	To/A			
32.5	33.6	DIKE	DIABASIC TEXTURE, GREY F.G.. FLATTENED QTZ.-CARB. INCLUSIONS PARALLEL TO CONTACT WITH WEAK FOLIATION.								
33.6	33.62	VEIN	CONTACT. QTZ.-CARB. STRINGER AT 43° TO CORE.								
33.62	36.9	FLOW	TUFF. f.g. INTERMEDIATE VOLCANIC, FELSPATHIC-SERICITIC. FOLIATION PRIMARILY AT 30° TO CORE, GREEN. FLATTENED THIN DARK LAPILLI.								
36.9	37.6	FLOW	TUFF. PALE GREEN. LAPILLI UP TO 5 CM. IN LENGTH. HIGHLY ALTERED SERICITIC-CARBONATED WITH ABOUT 1% SPECKS PY.								
37.6	37.6		CONTACT. SHARP AT 40° TO CORE								
37.6	57.2	FLOW	DACITE. VOLCANO-CLASTIC, INTERMEDIATE FLOW UNITS. REWORKED, SHATTERED HIGHLY FOLIATED AT 40° TO CORE. INCLUDES SOME MINOR MAFIC FLOW UNITS WITH LAPILLI. SUBTLE COLOUR CHANGE FROM GREEN TO PALE BROWN. MYLONITIC AND BRECCIATED.	3% pyrite		2	38.2	38.3	0.1	CaO	13.3%
				4% pyrite xls.		3	47.0	47.1	0.1	CaO	25.0%
57.2	57.8	FLOW	INCREASED SHEARING, AT 40° TO CORE. WEAKLY GRAPHITIC. PO. BLEBS AND SEVERAL THIN PO. SEAMS IRREGULARLY DISPERSED, QTZ. CARBONATE CEMENTED FRACTURES. DARK GREEN. CONDUCTIVE PO. STRINGERS.								

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.
* Exemples de caractéristiques : foliation, schistosité, stratification. L'angle est mesuré par rapport à l'axe longitudinal de la carotte.

† Additional credit available. See Assessment Work Regulation.
† Des crédits supplémentaires sont offerts. Consulter les règlements relatifs aux travaux d'évaluation.
Note: Dans cette formule, lorsqu'il désigne des personnes, le masculin est utilisé au sens neutre.



Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

**Diamond Journal de
Drilling forage au
Log diamant**

Complete this form and
related sketch in duplicate.
Remplir en deux exemplaires la
présente formule et le croquis annexé

Fill in on every page
Remplir ces cases à
chaque page

Hole No. Forage n° OPAP -1995	Page No. Page n° 3
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Drilling Company Compagnie de forage DOMINIK DRILLING (1981) INC.	Collar Elevation Élévation du collier	Beating of hole from true North/Position du forage par rapport au nord vrai	Total Footage Avancement total du forage 152 METRES	Dip of Hole at Inclinaison du forage au Collar/collier 90°	Address/Location where core stored Adresse/endroit où la carotte est stockée 9 Willamere Drive Scarborough Ont.	Map Reference No. N° de référence sur la carte G 3537	Claim No. N° de concession minière P. II80028
Date Hole Started Date de commencement du forage JUNE 14 1995	Date Completed Date d'achèvement June 16 1995	Date Logged Date d'inscription au journal '95/10/06	Logged by Inscrit par F.H. ELLGRING	FL/Pl	Property Name Nom de la propriété J. Ward & D. Ward MANN TWP. Property	Location (Twp. Lot, Con. or Lat. and Long.) Emplacement (canton, lot, concession, ou latitude et longitude) SE ¼ SOUTH ½ Lot 9 Concession 6 MANN TOWNSHIP	
Exploration Co., Owner or Optionee Compagnie d'exploration, propriétaire ou titulaire d'option John Ward & David Ward		Date Submitted Date de dépôt	Submitted by (Signature) Déposé par (signature)	FL/Pl			
				FL/Pl			
				FL/Pl			

Footage/Avancement		Rock Type Type de roche	Description (Colour, grain size, texture, minerals, alteration, etc.) Description (Couleur, granulométrie, texture, minéraux, transformation, etc.)	Plan: Features Angle/angle des caractéristiques plans	Core Specimen Footage L / Longueur en pieds des carottes prélevées	Your Sample No. N° d'échantillon du prospecteur	Sample Footage/ Niveau de pré- levement de l'échantillon (en pieds)		Sample Length Longueur de l'échantillon	Assays † / Analyses minéralurgiques	
From/De	To/A						From/De	To/A			
57.8	87.2	FLOW	ANDESITE. PALE GREEN INTERMEDIATE INTRUSIVE WITH VERY WEAK FOLIATION. BECOMING MASSIVE f.g. ANDESITE. COARSELY FRACURED WITH MULTI DIRECTIONAL QTZ. CEMENTING.								
87.2	93.4	FLOW	DARK GREEN INTERMEDIATE FLOW SHOWING WEAKLY GRAPHITIC DARK BANDS IRREGULARLY WITHIN CARBONATE CEMENTED FRACTURES. INCLUDES BLEBS AND THIN DISCONTINUOUS SEAMS OF PO.+1% PO.	10% pyrite stringers		4	91.0	91.1	0.1	CaO 13.2% Ag 1.4 ppm Sn 17.6 ppm	
93.4	93.41	SED.	1 cm. BAND ARGILLITE, GRAPHITIC WITH ½ mm SEAM OF PO. AT 50° TO CORE BOTH BEING SEPARATELY ELECTRICALLY CONDUCTIVE. NO REACTION TO DIMETHYL GLYOXIME FOR NICKEL. BLACK, THINLY LAMELLAR.								
93.41	108.	FLOW	TUFF. VOLCANO-CLASTIC, PALE GREEN LAPILLI. QTZ-CARB. STRING- ERS. FOLIATED AT 40°-50° TO CORE. INTERMEDIATE COMPOSITION.								
108	108.4	FLOW	TUFFACEOUS AND BRECCIATED FLOW UNIT WITH IRREGULAR PATCHES OF CONTORTED GRAPHITE BANDS. NODULAR PO. AND PY. ALSO PO. IN THIN SEAMS. ELECTRICALLY CONDUCTIVE OVER NARROW WIDTHS OF SEVERAL mm.. NO DIMETHYL REACTION. DARK GREEN TO BLACK FOLIATED AT 40° TO CORE								

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.
* Exemples de caractéristiques : foliation, schistosité, stratification. L'angle est mesuré par rapport à l'axe longitudinal de la carotte.

† Additional credit available. See Assessment Work Regulation.
† Des crédits supplémentaires sont offerts. Consulter les règlements relatifs aux travaux d'évaluation.



Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Diamond Journal de
Drilling forage au
Log forage au
diamant

Complete this form and
related sketch in duplicate.
Remplir en deux exemplaires la
présente formule et le croquis annexé

Fill in on every page
Remplir ces cases à
chaque page

Hole No. Forage n° OPAP -I995	Page No. Page n° 4
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Drilling Company Compagnie de forage DOMINIK DRILLING (I98I) INC.		Collar Elevation Élévation du collier	Bearing of hole from true North/Position du forage par rapport au nord vrai	Total Footage Avancement total du forage 152 METRES	Dip of Hole at Inclinaison du forage au Collar/collier 90°	Address/Location where core stored Adresse/endroit où la carotte est stockée 9 Willamere Drive Scarborough Ont.	Map Reference No. N° de référence sur la carte G 3537	Claim No. N° de concession minière P II80028
Date Hole Started Date de commencement du forage JUNE I4 I995	Date Completed Date d'achèvement June I6 I995	Date Logged Date d'inscription au journal '95/10/06	Logged by Inscrit par F.H. ELLGRING		FL/PI		Location (Twp. Lot, Con. or Lat. and Long.) Emplacement (canton, lot, concession, ou latitude et longitude) SE ¼ SOUTH ½ Lot 9 Concession 6 MANN TOWNSHIP	
Exploration Co., Owner or Optionee Compagnie d'exploration, propriétaire ou titulaire d'option John Ward & David Ward		Date Submitted Date de dépôt	Submitted by (Signature) Déposé par (signature)		FL/PI		Property Name Nom de la propriété J. Ward & D. Ward MANN TWP. Property	

Footage/Avancement		Rock Type Type de roche	Description (Colour, grain size, texture, minerals, alteration, etc.) Description (Couleur, granulométrie, texture, minéraux, transformation, etc.)	Planar Feature Angle/Ange des caractéristiques plans	Core Specimen Footage L / Longueur en pieds des carottes prélevées	Your Sample No. N° d'échantillon du prospecteur	Sample Footage/Level of Pre- levement de l'échantillon (en pieds)	Sample Length Longueur de l'échantillon	Assays † / Analyses minéralurgiques
From/De	To/À						From/De	To/À	
108.4	108.6	SED.	ARGILLITE. GRAPHITIC, BLACK, LAMELLAR AT 40° TO CORE. 5% PO. NODULES AND ALSO THIN SEAMS. MINOR CPY. BASAL TO THE PO. DIMETHYL NEGATIVE FOR NICKEL. CONDUCTIVE .						
108.6	110.	FLOW-SED.	TUFF. FOLIATED AT 40° TO CORE.						
110.	110.		CONTACT. SHARP AT 45° TO CORE.						
110.	118	SED.	ARGILLITE WITH THIN FLOW SEQUENCES. PRIMARILY A GRAPHITE ZONE. NODULAR AND LAMELLAR PO. BANDS. VY. MINOR CPY. QTZ.-CARB. FILLINGS THROUGHOUT. ENTIRE ZONE RUNS 60% GRAPHITE WITH 3% PO. MOST PO. ASSOCIATED WITH QTZ.-CARB.- BANDS. DIMETHYL NEGATIVE. GOOD CONDUCTIVITY. BANDED AT 40°	10% pyrite stringers		5	116.6	116.1	0.1 (0.11% Zn) (16 ppm Sn) (1.2 ppm Ag)
118.	118.		CONTACT. AT 60° TO CORE.	no visible sulphides		6	127.0	127.1	0.1 (15 ppb Au) (20 ppb Pd) (11 ppm Sn) (CaO 9.6%)
118.	137.4	INTRUSIVE	ANDESITE. MASSIVE, f.g. INTERMEDIATE. PREDOMINANTLY FELSPATHIC. FELTED CRYSTALLINE FORMS.						
137.4	138.1	INTRUSIVE	DITTO ABOVE BUT EXHIBITS CEMENTED SHEARING AND MYLONIT- IZATION . TOP CONTACT AT 25° BUT BOTTOM CONTACT AT 40°						
138.1	143.5	INTRUSIVE	ANDESITE. GREEN WITH SEVERAL 3 cm. PALE GREEN HEALED MYLONITIC SHEARED ZONES.						

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

* Exemples de caractéristiques : foliation, schistosité, stratification. L'angle est mesuré par rapport à l'axe longitudinal de la carotte.

† Additional credit available. See Assessment Work Regulation.

† Des crédits supplémentaires sont offerts. Consulter les règlements relatifs aux travaux d'évaluation.

Note : Dans cette formule, lorsqu'il désigne des personnes, le masculin est utilisé au sens neutre.



Ministry of
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et des Mines

**Diamond Journal de
Drilling forage au
Log forage au
diamant**

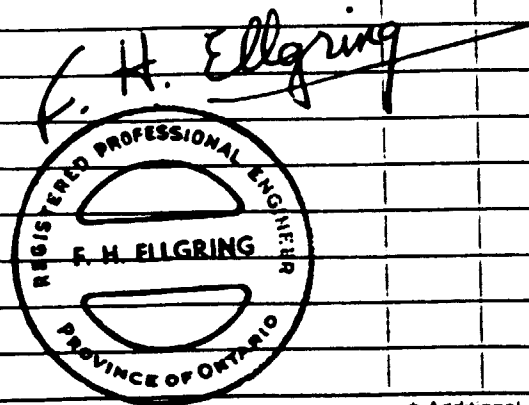
Complete this form and
related sketch in duplicate.
Remplir en deux exemplaires la
présente formule et le croquis annexé

Fill in on every page
Remplir ces cases à
chaque page

Hole No. Forage n°	Page No. Page n°
OPAP -1995	5.

Drilling Company Compagnie de forage DOMINIK DRILLING (1981) INC.		Collar Elevation Élévation du collier	Bearing of hole from true North/Position du forage par rapport au nord vrai	Total Footage Avancement total du forage 152 METRES	Dip of Hole at inclinaison du forage au Collar/collier 90°	Address/Location where core stored Adresse/endroit où la carotte est stockée 9 Willamere Drive Scarborough Ont.	1:25 Reference No. N° de référence sur la carte G 3537	Claim No. N° de concession minière P II80028
Date Hole Started Date de commencement du forage JUNE 14 1995	Date Completed Date d'achèvement JUNE 16 1995	Date Logged Date d'inscription au journal '95/10/06	Logged by Inscrit par F.H. ELLGRING		FL/Pi	Location (Twp. Lot, Con. or Lat. and Long.) Emplacement (canton, lot, concession, ou latitude et longitude) SE 1/4 SOUTH 1/2 Lot 9 Concession 6 MANN TOWNSHIP	Property Name Nom de la propriété J.Ward & D.Ward MANN TWP. Proper	
Exploration Co., Owner or Optionee Compagnie d'exploration, propriétaire ou titulaire d'option John Ward & David Ward		Date Submitted Date de dépôt	Submitted by (Signature) Déposé par (signature)		FL/Pi			
					FL/Pi			
					FL/Pi			

Footage/Avancement		Rock Type	Description (Colour, grain size, texture, minerals, alteration, etc.)	Angle of core L'angle des échantillons	Core Section Fossés et longueur en millimètres	Your Sample No. N° d'échantillon du prospecteur	Sample Footage/Level of relevement de l'échantillon (en pieds)	Sample Length Longueur de l'échantillon	Assays †/Analyses minéralurgiques
From/De	To/A	Type de roche	Description (Couleur, granulométrie, texture, minéraux, transformation, etc.)				From/De	To/A	
143.5	144.	SHEAR	MYLONITE AND BRECCIA. PALE GREEN.						
144.	152.	INTRUSIVE	ANDESITE. MASSIVE, INTERMEDIATE, IRREGULARLY FRACTURED QTZ. HEALED STRINGERS. INDISTINCT CHLORITIC INCLUSIONS. FELSPAR LATHS AND QTZ. NODULES OF 1 mm. VY. MINOR PO						
			END OF HOLE 152 METRES.						



* For features such as foliation, bedding, schistosity, measured from the long axis of the core.
* Exemples de caractéristiques : foliation, schistosité, stratification. L'angle est mesuré par rapport à l'axe longitudinal de la carotte.

† Additional credit available. See Assessment: Work Regulation.
† Des crédits supplémentaires sont offerts. Consulter les règlements relatifs aux travaux d'évaluation.
Nota : Dans cette formule, lorsqu'il désigne des personnes, le masculin est utilisé au sens neutre.

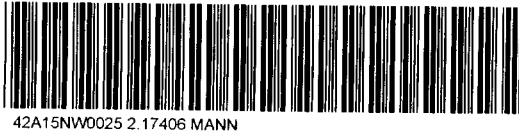


Declaration of Assessment Work Performed on Mining Land

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

Transaction Number (office use) <i>W9760-00128</i>
Assessment Files Research Imaging

Personal information collected
Mining Act, the information is a
Questions about this collectic
933 Ramsey Lake Road, Sudb



42A15NW0025 2.17406 MANN

the Mining Act. Under section 8 of the
correspond with the mining land holder.
Development and Mines, 6th Floor,

900

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

2.17406

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

Name <i>JOHN T. WARD</i>	Client Number <i>206 725</i>
Address <i>9 WILLAMERE DRIVE</i>	Telephone Number <i>416-261-8477</i>
<i>SCARBOROUGH ONT. M1M-1W5</i>	Fax Number
Name <i>DAVID A. WARD</i>	Client Number <i>206686</i>
Address <i>152 OAKRIDGE DRIVE</i>	Telephone Number <i>416-267-6855</i>
<i>SCARBOROUGH ONT. M1M-2A8</i>	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: drilling, stripping, trenching and associated assays Rehabilitation

Work Type <i>INDUCED POLARIZATION SURVEY</i> <i>10 SURVEY DAYS</i>	Office Use
	Commodity
	Total \$ Value of Work Claimed <i>13,200⁰⁰</i>
Dates Work Performed From <i>6</i> Day <i>9</i> Month <i>1995</i> Year To <i>20</i> Day <i>9</i> Month <i>1995</i> Year	NTS Reference
Global Positioning System Data (if available)	Mining Division <i>Porcupine</i>
Township/Area <i>MANN TWP</i>	Resident Geologist District <i>Timmins</i>
M or G-Plan Number <i>G-3537</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.

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

Name <i>JOHN T. WARD</i>	Telephone Number <i>416-261-8477</i>	RECEIVED JUN 16 1997 MINING LANDS BRANCH
Address <i>9 WILLAMERE DRIVE SCARBOROUGH ONT</i>	Fax Number	
Name	Telephone Number	RECEIVED JUN 2 1997 TR 3:30 PORCUPINE MINING DIVISION
Address	Fax Number	
Name	Telephone Number	
Address	Fax Number	

4. Certification by Recorded Holder or Agent

I, JOHN T. WARD (Print Name), 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>John T. Ward</i>	Date <i>MAY 21/1997</i>
Agent's Address <i>9 WILLAMERE DRIVE SCARBOROUGH ONT</i>	Telephone Number <i>416-261-8477</i>
	Fax Number

5. 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.

Mining 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.
eg TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
eg 1234567	12	0	\$24,000	0	0
eg 1234568	2	\$8,892	\$4,000	0	\$4,892
1 P1186760	6	7260	—	—	7260
2 P1180029	4	5940	—	—	5940
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
Column Totals		13,200			13,200

2,17408

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.

(Print Full Name)

Signature of Recorded Holder or Agent Authorized in Writing

John T. Ward

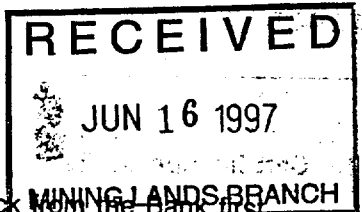
Date

14 May 21/1997

6. Instructions 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:

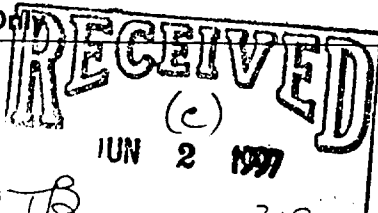
- 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- 3. Credits are to be cut back equally over all claims listed in this declaration; or
- 4. Credits are to be cut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



Deemed Approved Date

Date Notification Sent

Date Approved

Total Value of Credit Approved

Approved for Recording by Mining Recorder (Signature)



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

212408

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^e étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre		
	Field Supervision Supervision sur le terrain		
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert- conseil	Type 10 FIELD DAYS INDUCED POLYMERIZATION SURVEYING @ 1100/day	11,000	
			11,000
Supplies Used Fournitures utilisées	Type		
Equipment Rental Location de matériel	Type		
Total Direct Costs Total des coûts directs			11,000

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
Transportation Transport	Type 3175 Km @ 30¢/Km AUTOMOBILE	952	
	2035 Km @ 30¢/Km 4 X 4 JIMMY TRUCK	610	
			1562
Food and Lodging Nourriture et hébergement	3 MAN CREW STW SEP 6 TO 21, 1995	1800	1800
Mobilization and Demobilization Mobilisation et démobilisation	1100 TORONTO - IRONBROS FALLS	1100	1100
Sub Total of Indirect Costs Total partiel des coûts indirects			4462
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)			2200
Total Value of Assessment Credit (Total of Direct and Allowable Indirect costs)		Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)	13,200

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

- Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
- 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

- Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
- 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.

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 RECORDED HOLDER I am authorized
(Recorded Holder, Agent, Position in Company)

to make this certification

Valeur totale du crédit d'évaluation	× 0.50
--------------------------------------	--------

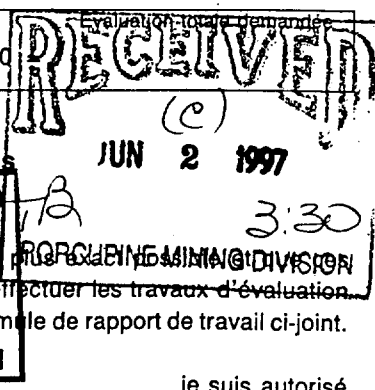
Attestation de l'état des coûts

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

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

à faire cette attestation.

Signature <u>John T. Ward</u>	Date <u>MAY 21/1997</u>
----------------------------------	----------------------------





Declaration of Assessment Work Performed on Mining Land

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

Transaction Number (office use)
W. 9760.00/29
Assessment Files Research Imaging

Personal information collected on this form is obtained under the authority of subsections 65(2) and 66(3) of the Mining Act. Under section 8 of the Mining Act, the 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 the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

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

2.17406

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

Name JOHN T. WARD	Client Number 206725
Address 9 WILLAMBLE DRIVE	Telephone Number (416) 261-8477
SCARBOROUGH ONT. M1M-1W5	Fax Number
Name DAVID A. WARD	Client Number 206686
Address 152 OAKRIDGE DRIVE	Telephone Number (416) 267-6855
SCARBOROUGH ONT M1M-2A8	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: drilling, stripping, trenching and associated assays
 Rehabilitation

Work Type DIAMOND DRILLING CORE LOGGING ASSAYING	Office Use
	Commodity
	Total \$ Value of Work Claimed 15,311⁰⁰
Dates Work Performed From 4 Day 6 Month 1995 Year To 6 Day 10 Month 1995 Year	NTS Reference
Global Positioning System Data (if available)	Mining Division PORCUPINE
Township/Area MANN TWP	Resident Geologist District TIMMINS
M or G-Plan Number G 3537	

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.

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

Name JOHN T. WARD	Telephone Number (416) 261-8477
Address 9 WILLAMBLE DRIVE SCARBOROUGH ONT. M1M-1W5	Fax Number
Name	Telephone Number
Address	Fax Number
Name	Telephone Number
Address	Fax Number

RECEIVED
JUN 16 1997
MINING LANDS BRANCH

RECEIVED
JUN 2 1997
TB 3:30
PORCUPINE MINING DIVISION

4. Certification by Recorded Holder or Agent

I, JOHN T. WARD (Print Name), 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>John T. Ward</i>	Date May 21 / 1997
Agent's Address	Telephone Number (416) 261 8477
	Fax Number

5. 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.

Mining 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.
eg TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
eg 1234567	12	0	\$24,000	0	0
eg 1234568	2	\$8,892	\$4,000	0	\$4,892
1 1180028	2	15,311 JTW 15,972	1600	8340	5,972 5,371 JTW
2 1186760	6		4800		
3 1180029	4		2840		
4 1180030	1		300		
5 1186762	1		400		
6			2.17406		
7					
8					
9					
10					
11					
12					
13					
14					
15					
Column Totals		15,311 JTW 15,972	9940	8340	5,972 5,371 JTW

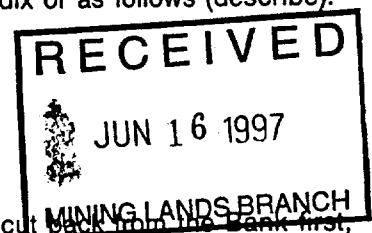
I, JOHN T. WARD, do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing John T. Ward Date May 21/1997

6. Instructions 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:

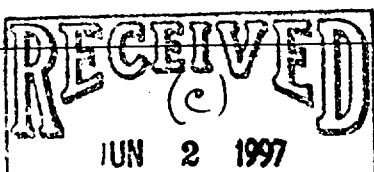
- 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- 3. Credits are to be cut back equally over all claims listed in this declaration; or
- 4. Credits are to be cut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



Deemed Approved Date

Date Notification Sent

Date Approved

Total Value of Credit Approved



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

Transaction No./N° de transaction

Mining Act/Loi sur les mines **2.17406**

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^e étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre		
	Field Supervision Supervision sur le terrain	9 DAYS @ \$300 2700	2700
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert-conseil	Type BQ DIAMOND DRILLING 500 FEET	8110 288	
	CORE LOGGING	600	
	ASSAYING	750	9460
Supplies Used Fournitures utilisées	Type		
Equipment Rental Location de matériel	Type TIMBERJACK SKIDDER 4 DAYS	1100	
			1100
Total Direct Costs Total des coûts directs			13,260

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
Transportation Transport	Type AUTOMOBILE 1700km @ 30¢/km	510	
			510
Food and Lodging Nourriture et hébergement	JUNE 9-17 INCLUSIVE 9 DAYS @ \$50/day	450	450
Mobilization and Demobilization Mobilisation et démoblisation	DIAMOND DRILL MOBILIZATION AND DEMOBILIZATION DOMINICANE	1091	1091
Sub Total of Indirect Costs Total partiel des coûts indirects			2051
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)			2051
Total Value of Assessment Credit (Total of Direct and Allowable Indirect costs) Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)			15,311

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

- Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
- 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

- Les travaux déposés dans les deux ans suivant l'achèvement sont remboursés à 100% de la valeur totale susmentionnée de crédit d'évaluation.
- 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-dessus.

Valeur totale du crédit d'évaluation	Evaluation totale demandée
	x

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.

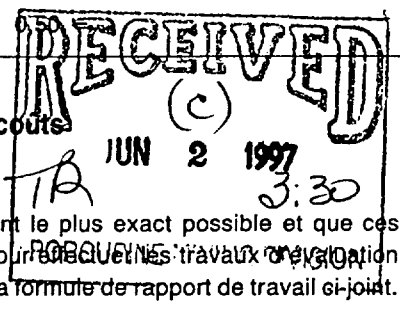
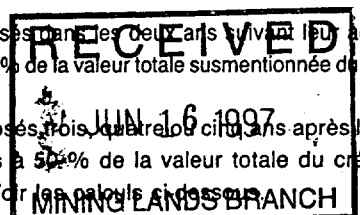
that as RECORDED HOLDER I am authorized (Recorded Holder, Agent, Position in Company) to make this certification John T. Ward

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 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 John T. Ward Date MAY 21/1997



August 27, 1997

JOHN TREMAINE WARD
9 WILLAMERE DRIVE
SCARBOROUGH, Ontario
M1M-1W5

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

Telephone: (888) 415-9846
Fax: (705) 670-5863

Dear Sir or Madam:

Submission Number: 2.17406

	Status
Subject: Transaction Number(s):	W9760.00128 Approval
	W9760.00129 Approval

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.

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 Steve Beneteau by e-mail at beneteau_s@torv05.ndm.gov.on.ca or by telephone at (705) 670-5855.

Yours sincerely,



ORIGINAL SIGNED BY
Blair Kite
Supervisor, Geoscience Assessment Office
Mining Lands Section

Work Report Assessment Results

Submission Number: 2.17406

Date Correspondence Sent: August 27, 1997

Assessor: Steve Beneteau

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9760.00128	1186760	MANN	Approval	August 26, 1997

Section:

14 Geophysical IP

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9760.00129	1180028	MANN	Approval	August 26, 1997

Section:

16 Drilling PDRILL

Correspondence to:

Resident Geologist
South Porcupine, ON

Assessment Files Library
Sudbury, ON

Recorded Holder(s) and/or Agent(s):

JOHN TREMAINE WARD
SCARBOROUGH, Ontario

DAVID ANDREW WARD
SCARBOROUGH, Ontario

G-3537

AREAS WITHDRAWN FROM DISPOSITION

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

Description Order No. Date Disposition File

WATER POWER RESERVE

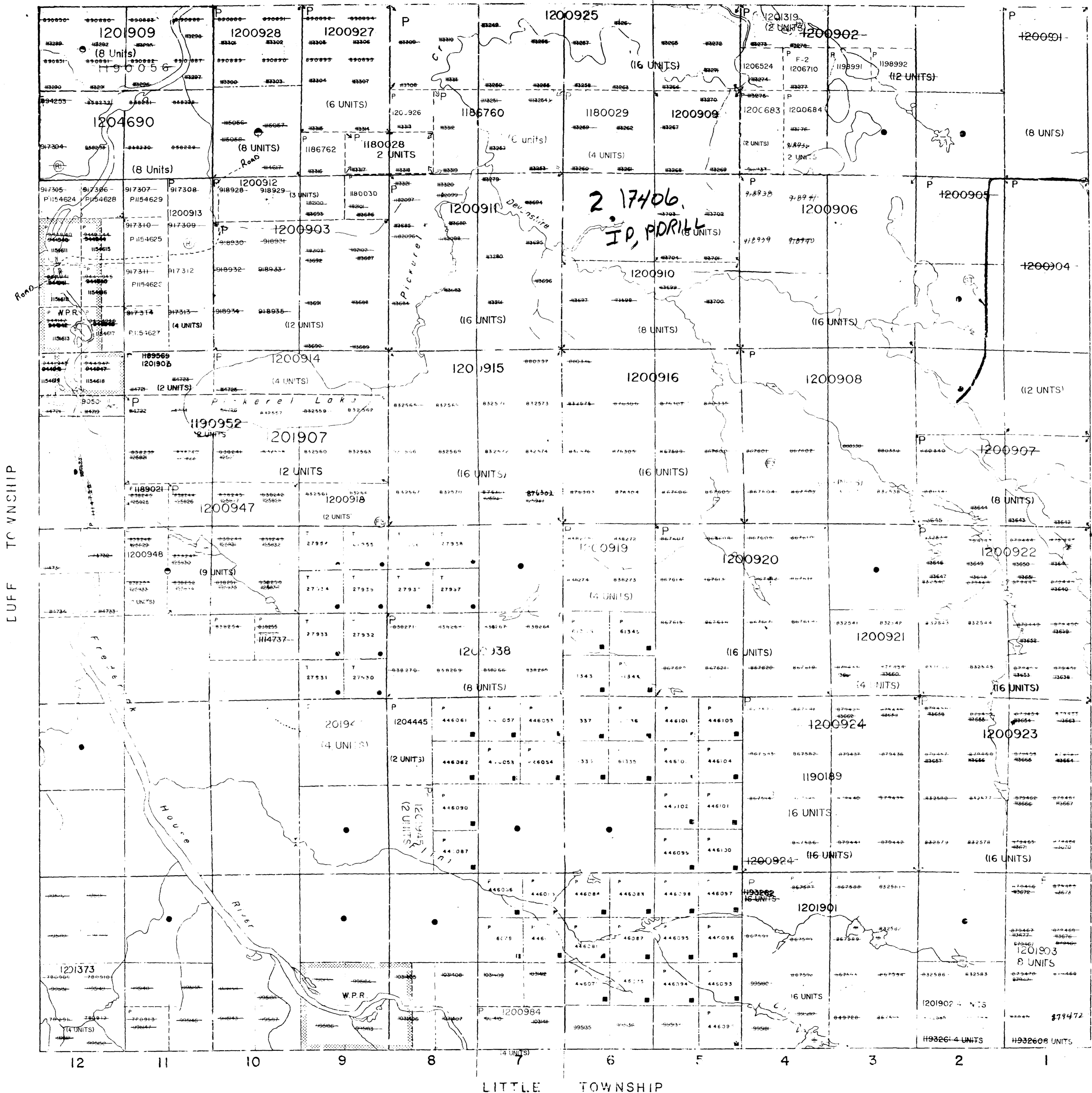
W.O. 87/87

MINING AND SURFACE RIGHTS WITHDRAWN

UNDER SECTION 28 OF THE MINING ACT
 (OCTOBER 15, 1987) see file 894953

SURFACE AND MINING RIGHTS RE-OPENED TO PROSPECTING,
 STAKING OUT, SALE OR LEASE UNDER SECTION 36
 OF THE MINING ACT R.S.O. 1990
 EFFECTIVE 90-SEP-05 AT 7AM E.S.T.
 ORDER NO. O-P 4/90 NR DATED 90-AUG-22.

NOTE: P1125837 PLOTTED IN ERROR. S/B P1114737.



2.17406
IP, DRILL

LEGEND

HIGHWAY AND ROUTE No.
 C.M.P.C. OR A.S.
 TRAILS
 CURVED LINES
 TOWNSHIP, BASE LINE, ETC.
 CUTS, MINING CLAIMS, ETC.
 MINING CLAIMS
 LOT LINES
 PARCEL BOUNDARY
 MINING CLAIMS ETC.
 RAILWAY RIGHT OF WAY
 UTILITY LINES
 NON-PERMANENT LEAM
 FLOODING OR FLOODING RIGHTS
 SUBDIVISION OR COMP. LIFE PLAN
 RESERVATIONS
 ORIGINAL SHORELINE
 MARSH OR MUSKIEG
 MINES
 REVERSE MONUMENT

DISPOSITION OF CROWN LAND

TYPE OF DOCUMENT

- 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
- RESERVATION
- CANCELLED
- SAND & GRAVEL
- LAND USE PERMIT

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO 1913, VESTED IN ORIGINAL PATENTEE BY LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 6. UNLESS OTHERWISE INDICATED.

SCALE 1:20 000

SNOWMOBILE TRAIL (LAND USE PERMIT) NOTICE RECEIVED 92-DEC-09

RECEIVED Sept 24/86

TOWNSHIP
MANN
 M.N.R. ADMINISTRATIVE DISTRICT
COCHRANE
 MINING DIVISION
PORCUPINE
 MINING TITLES / REGISTRY DIVISION
COCHRANE

Ministry of Natural Resources
 Ministry of Northern Development and Mines

SEPTEMBER 1986

G-3537

G-3537

2.17406

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.



D.J. Ward
May 1997

G-3537

AREAS WITHDRAWN FROM DISPOSITION

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

Description Order No. Date Disposition File

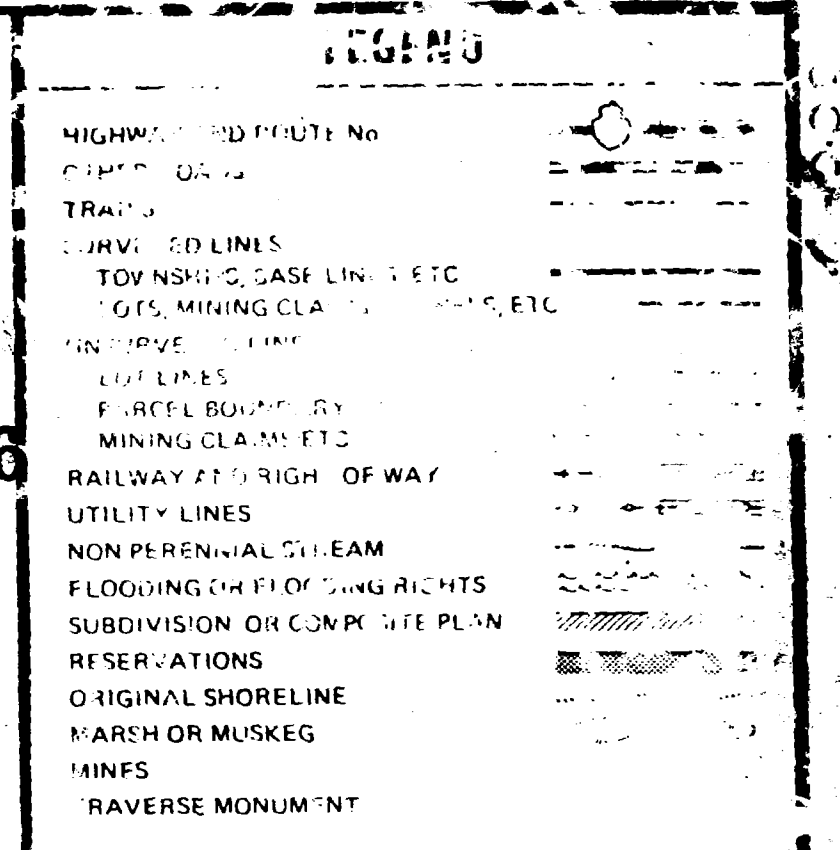
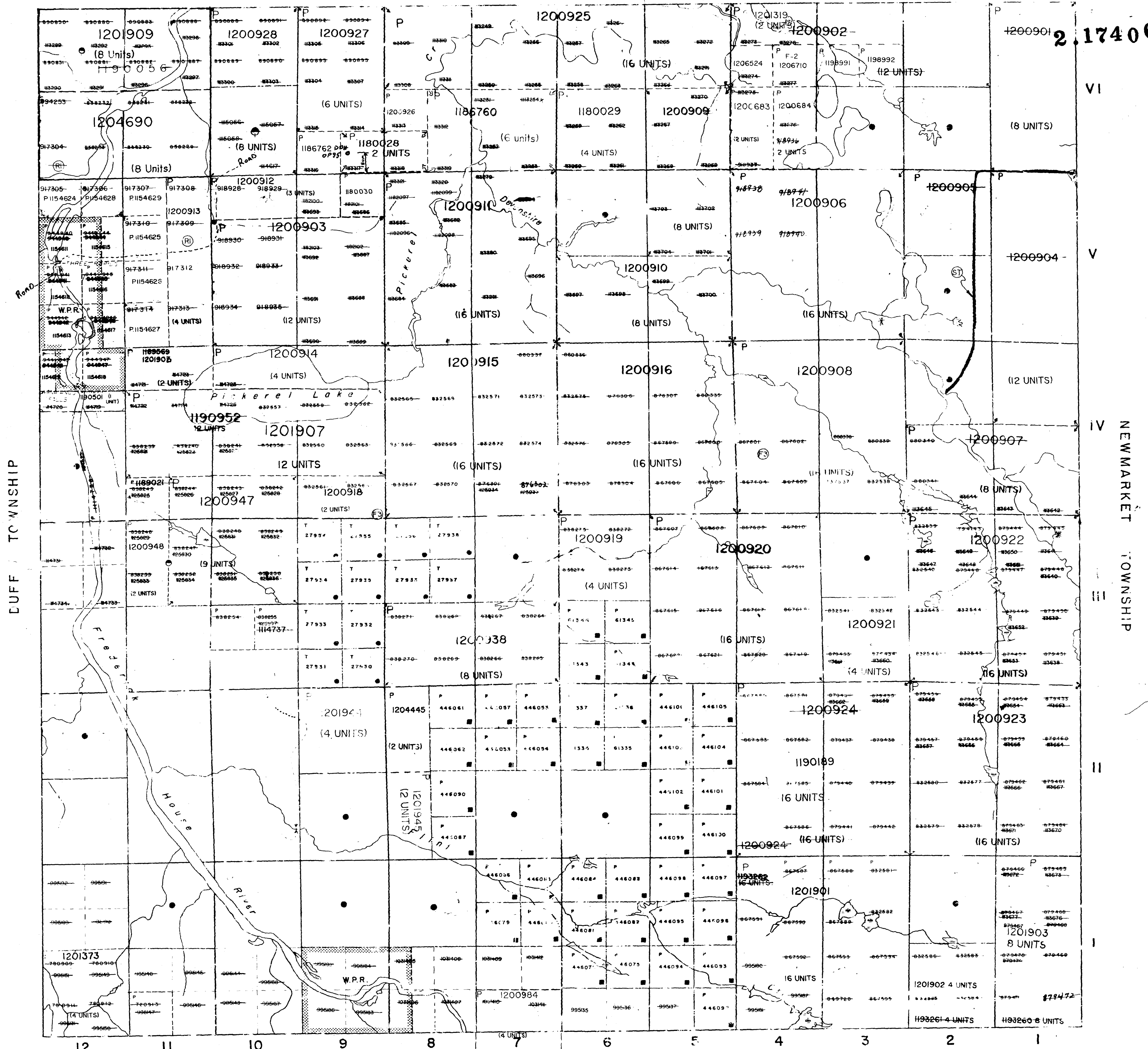
WATER POWER RESERVE

W.O. 87 / 87

MINING AND SURFACE RIGHTS WITHDRAWN UNDER SECTION 36 OF THE MINING ACT (OCTOBER 13, 1987) see file 894255.

SURFACE AND MINING RIGHTS RE-OPENED TO PROSPECTING, STAKING OUT, SALE OR LEASE UNDER SECTION 36 OF THE MINING ACT R.S.O. 1980 EFFECTIVE 90-SEP-05 AT 7 AM E.S.T. ORDER NO. O.P. 4/790 NR DATED 90-AUG-22.

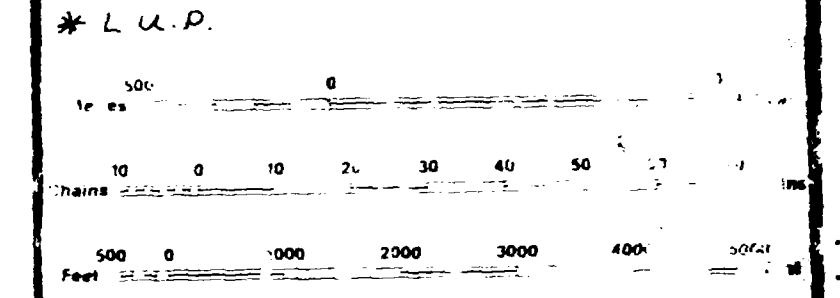
NOTE: P1125837 PLOTTED IN ERROR. S/B P1114737.



DISPOSITION OF CROWN LAND

TYPE OF DOCUMENT	
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	.....
RESERVATION	.....
CANCELLED	.....
SALT & GRAVEL	.....
LAND USE PERMIT	.....

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO 1913, VESTED IN ORIGINAL PATENTEE BY LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 6(1)(b).



SCALE 1:20 000

SNOWMOBILE TRAIL (LAND USE PERMIT) NOTICE RECEIVED 92-DEC-09

5 M.S. UNAN.

9 VT. UNAN.

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.

Received Sept 22/86

TOWNSHIP
MANN

M.N.R. ADMINISTRATIVE DISTRICT
COCHRANE
 MINING DIVISION
PORCUPINE
 AND TITLES / REGISTRY DIVISION
COCHRANE

Ministry of Natural Resources
 Ministry of Northern Development and Mines

SEPTEMBER, 1986

Number
G-3537

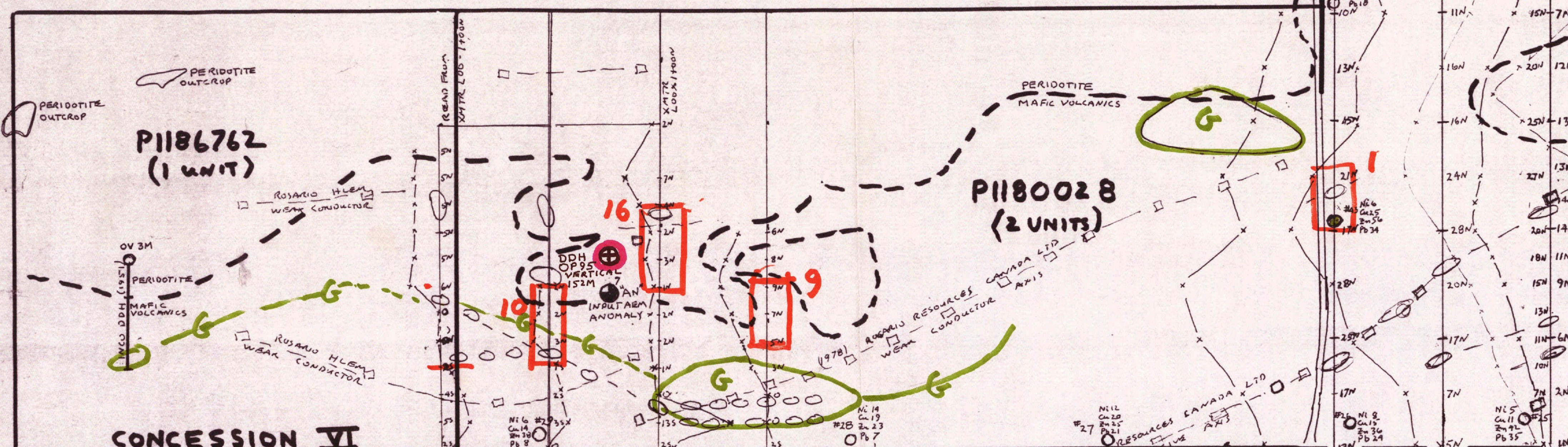
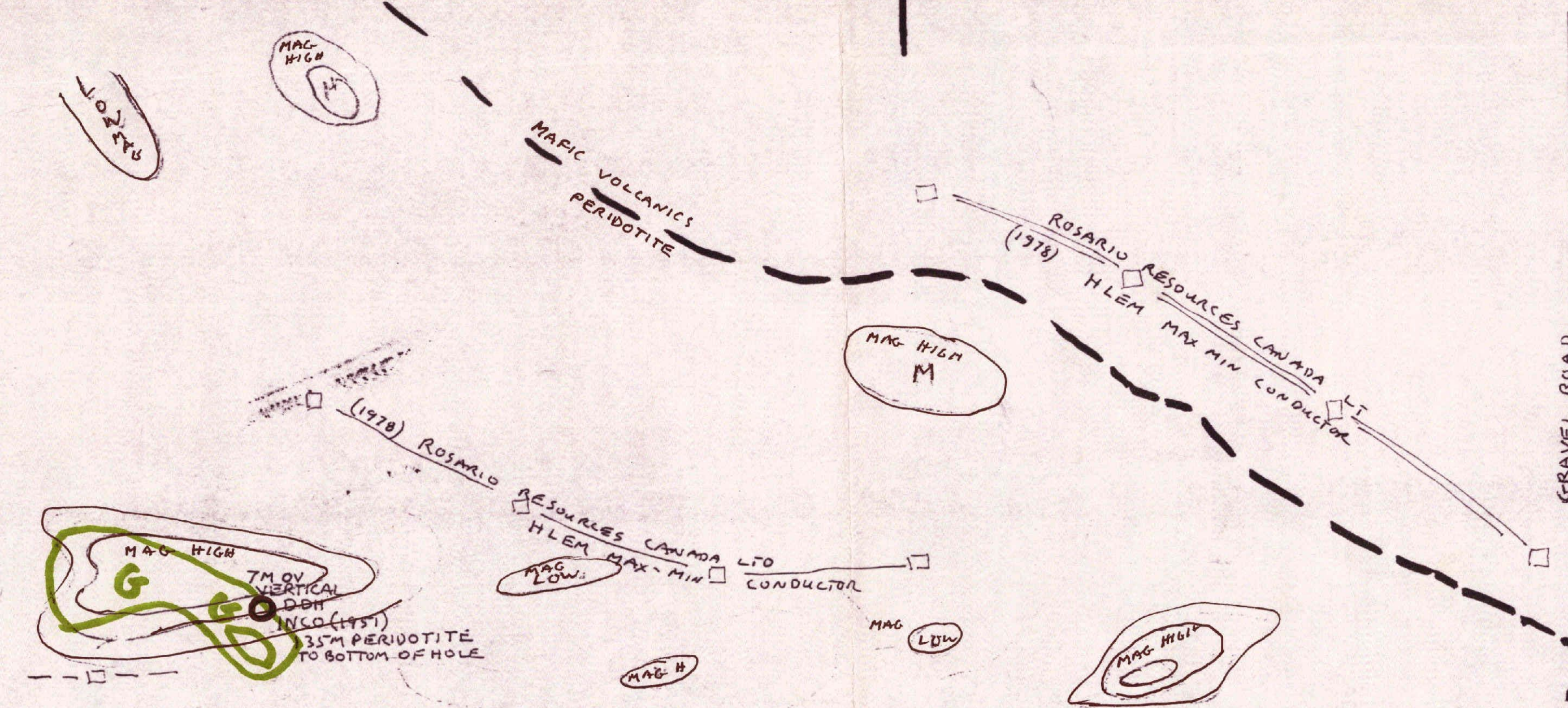
G-3537

G-3537

N: 1
Cu 9
Zn 62
Pb 25

LOT 9

LOT 8



CONCESSION VI
CONCESSION V

00
SURVEY LINE OPAP 1993
I.P. OPAP 1993

1E
SURVEY LINE OPAP 1993
I.P. OPAP 1993

2E
SURVEY LINE OPAP 1993
I.P. OPAP 1993

P1180030
(1 UNIT)

6+80E
SURVEY LINE
I.P. OPAP 1993

LOT 8

