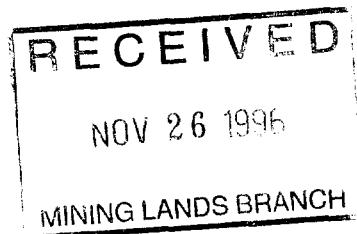


SUMMARY REPORT
ON THE
HALCROW CREEK PROPERTY
1995 WORK PROGRAM
HALCROW TOWNSHIP
PORCUPINE MINING DISTRICT, ONTARIO

2.16896

by

William R. Troup



Mississauga, Ontario

Sept. 24, 1996



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SUMMARY

An integrated program of prospecting, I.P.geophysical surveying, V.L.F geophysical surveying and humus geochemical sampling was completed on the Halcrow Creek Property during the period June 15'th to November 15, 1995.

In 1994 a ground magnetic survey was completed on the property. All known gold occurrences were found to display a prominent magnetic correlation.

The I.P and V.L.F geophysical surveys completed in 1995 successfully outlined distinct conductive horizons coincident with or proximal to 4 previously identified anomalous gold zones present on the claim block. The most southerly of the original four gold occurrences (zone 1) occurs over a conformable linear magnetic high and coincident I.P and V.L.F. anomaly that was traced along strike for over 800 meters (2600 feet), and remains open for extension. Humus geochemical sampling confirmed the presence of geochemically anomalous gold values from two locations spaced 250 meters apart along this anomalous trend.

The two most northerly gold occurrences (zones 3 & 4) occur over the west extension of a common broad magnetic low that extends off the grid to the east, a distance of more than 1000 meters. The I.P. and V.L.F. surveys identified a broad zone of conductivity coincident with this magnetic anomaly. At the zone 4 location, geochemically anomalous gold values were previously identified from a broad (50 meter +) conformably sheared, carbonate and pyrite enriched section of volcanics and porphyry intrusives.

The central gold occurrence (zone 2) is located north of Halcrow Pond. At this location, gold values of up to 3000 ppb were previously obtained from a porphyry dike, located on the north side of a sheared porphyry intrusive displaying coincident I.P., V.L.F. and Magnetic signature. Humus geochemical sampling completed on two lines spaced 125 meters apart returned geochemically anomalous gold values from the vicinity of the coincident I.P. and V.L.F.anomalies.

In the north-east sector of the property, previous surveying delineated four V.L.F anomalies proximal to but separate from the original Lyall-Bidelman Gold occurrence where gold was previously panned from sheared and weathered syenite porphyry.

An initial 5 hole drill program (700 meters) is proposed to test the three anomalous gold zones present on the west sector of the property.

I.P and humus geochemical sampling is recommended over the four V.L.F. anomalies located proximal to the Lyall-Bidelman Gold occurrence. If results are sufficiently encouraging, diamond drilling should be considered.

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1. INTRODUCTION

During the period June 1 to Nov. 15, 1995, an integrated program of linecutting, prospecting, VLF and IP Geophysical surveying was carried out on the Halcrow Creek property.

The area has been subjected to sporadic exploration over a period of more than 50 years, and identified as highly prospective for gold.

The current program was directed at an area encompassing four known gold zones. Twenty-six kilometers of grid were previously established and surveyed by proton magnetometer in an effort to delineate the extent of the known mineralized zones.

2. LOCATION & ACCESS

The property is located in Halcrow Township, approximately 90 miles west of Timmins, and within the Porcupine Mining District. The center of the property is at Lat: 47 50'N, and 82 57'W (Figure 1). in NTS quadrangle 41/O,15.

A system of logging roads extends southwest from highway 101, from a point 40 kilometers west of the town of Foleyet, for 28 km's to the northwest corner of the claim group.

The Ivanhoe River crosses the northwest corner of the property, immediately south of the end of the access road. Locally, the river narrows to approximately 3 meters and is less than 1 meter in depth, and can be crossed on a series of fallen logs.

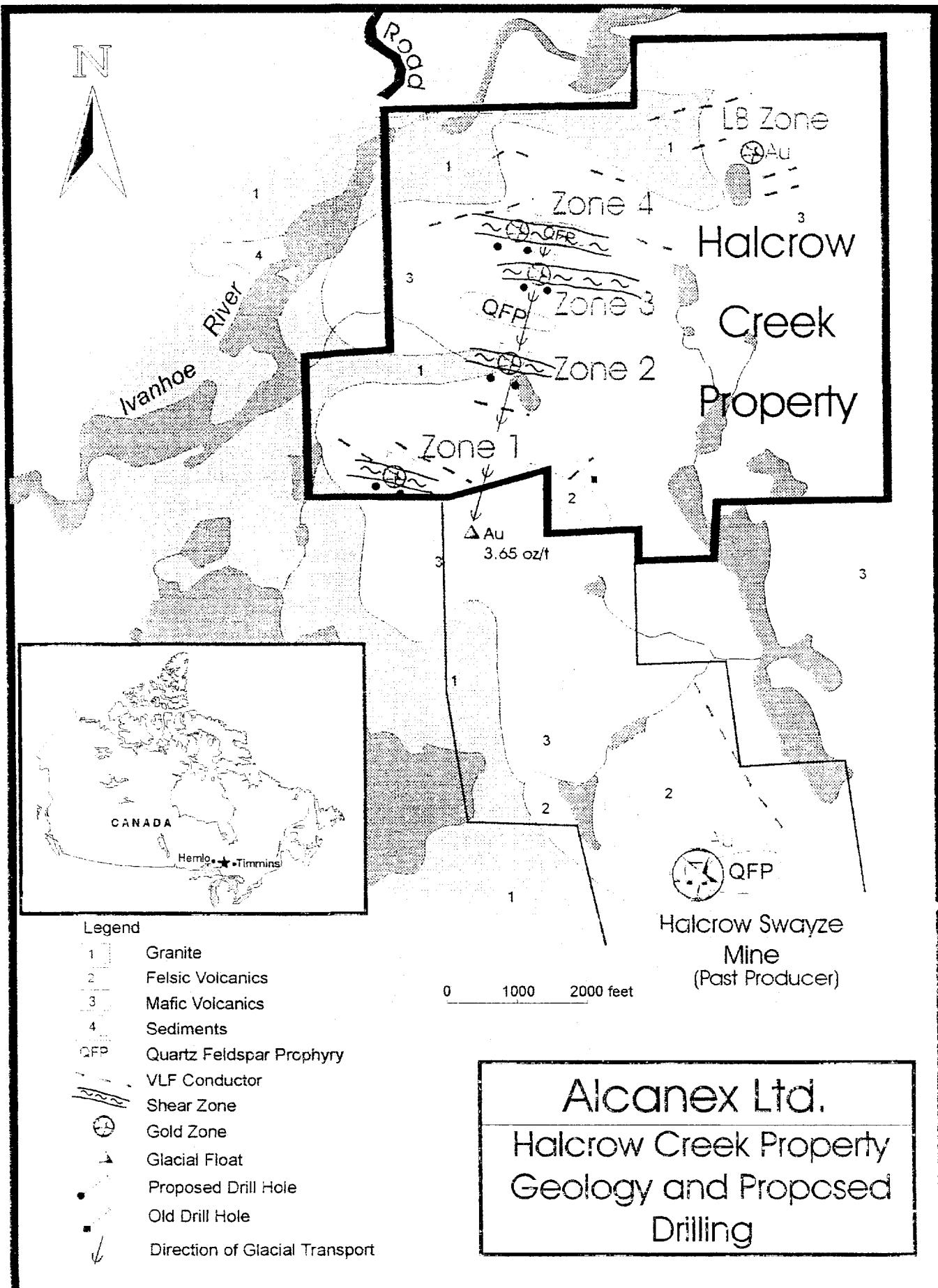
3. PROPERTY

The property consists of 9 mineral claims totaling approximately 1,440 acres. The recorded owner of the claims is Alcanex Ltd., 1365 Clarkson Rd. N., Mississauga, Ont.

CLAIM #	SIZE	RECORDING DATE
1150962	16(40 acre) Units	Oct. 23, 1991
1150965	2(40 acre) Units	Oct. 23, 1991
1150966	1(40 acre) Unit	Oct. 25, 1991
1150967	1(40 acre) Unit	Oct. 25, 1991
1150968	2(40 acre) Units	Oct. 25, 1991
1150969	1(40 acre) Unit	Oct. 25, 1991
1205434	8(40 acre) Units	Oct. 17, 1994
1205435	2(40 acre) Units	July 1995
1150974	3(40 acre) Units	Nov, 1995



LOCATION MAP



Topography in the area is gently rolling with maximum relief of about 50 meters. The high ground on the property is covered mainly by a mixed forest of poplar, white spruce, white birch, balsam fir, jack pine and alders. White cedar and black ash are present in lower areas. Much of the area between highway 101 and the north boundary of the property has been clear-cut in recent years.

4. PREVIOUS WORK

The area has received intermittent waves of exploration since the initial discovery of gold at Timmins in the early 1900's.

The patented claims located immediately south of the Halcrow Creek property, and formally held by Halcrow-Swayze Mines Ltd., received considerable exploration in the period 1932-1934. A shaft was sunk to a depth of 371 feet. The company estimated a reserve of 127,000 tons with a grade of 0.11 oz/ton on one vein to the 354 foot level.

W. Hammerstrom and W.J. Koski prospected the area in the mid 1940's and identified 5 areas favorable for hosting gold mineralization. They apparently located one showing north of the small pond near the south boundary of the Halcrow Creek claim block which returned .12 oz/ton Au.(see Karvinen (1980). This is presumed to be the showing located in the south central part of our claim block. A mineralized boulder from south of the property which assayed 3.65 oz/ton Au was suggested to have a possible source from beneath the pond mentioned previously . In consideration of the direction of glacial transport, the source could be south of the Halcrow Property, or any one of the four known zones on the property.

Parts of the current property were staked in the 1950's and 1960's.

In 1977 Granges explorations drilled one hole on an airborne electromagnetic anomaly located in the southeastern part of the current property. The hole intersected 10-30% pyrite over a few feet in tuff and argillite. the target was base metal massive sulphides. No gold analyses were recorded.

In 1980, W. Karvinen prospected and mapped the area for Gossan Resources. No detailed surveys or drilling was initiated.

In 1984, Regal Petroleums carried out geological mapping and prospecting over the current area of interest as part of a larger area evaluation. They completed airborne magnetic, electromagnetic and VLF surveys over the area. Several areas of geochemically anomalous gold values were identified and detail follow-up was recommended over the central part of the property.

In 1990 & 1991 W. Troup and B Otton prospected the area and located four distinct zones of anomalous gold mineralization. An initial block of 6 claims was staked in the area.

In 1992, Lorac Properties optioned the claim block and completed reconnaissance geological mapping over approximately 1/2 of the property. Three of the four known gold zones were examined and hand stripped and sampled. In all instances anomalous gold values were confirmed and a follow-up program of geophysics and drilling was planned but never completed. The property was returned to Troup & Otton when Lorac was unsuccessful in financing a 1993 exploration program.

In 1994 W. Troup established 26 kilometers of grid over the property and initiated a proton magnetometer survey.

In 1995, W. Troup and B. Otton completed an integrated program of prospecting, I.P and V.L.F. geophysical surveying and humus geochemical sampling.

5. GEOLOGY

5a) General Geology

The survey area is located within and near the western extremity of the Swayze Greenstone Belt, which in turn represents the western extension of the larger Abitibi Greenstone Belt of the Canadian Precambrian Shield. The area is underlain by an east-west trending sequence of mafic volcanics and associated sediments interrupted locally by mafic and felsic intrusives.

5b) Property Geology

The property is underlain in part by andesite flows, tuffs and associated sediments, intruded locally by felsic intrusive dikes and/or sills. The northern and western extremities of the property are underlain by granodiorite. Pyritic argillite and quartz-magnetite iron formation occur in two areas near the southern margin of the property.

Most of the rock formations are at least weakly foliated. In places this foliation becomes strong and pervasive and locally grades into schistosity or shearing. Pyrite and occasional quartz veining are typically present in areas of shearing.

Four gold enriched shear zones have been identified on the property. In all instances, gold occurs with disseminated pyrite in amounts of up to 10 percent.

At the south zone, gold occurs with disseminated to massive pyrite, in a unit of conformably sheared interflow sediment. The three north zones all occur near the contacts between mafic volcanics and granitic and/or quartz-porphyry intrusives.

6. HUMUS GEOCHEMICAL SAMPLING

Humus (organic soil) geochemical sampling was carried out at select locations over priority the geophysical anomalies where the presence of extensive overburden cover prevented a more direct evaluation of the gold potential by rock sampling. Samples were forwarded to Chemex Laboratories in Mississauga, and analyzed by the Neutron Activation method for gold only.

In the area of the Halcrow Creek Property the overburden is typically of one of two types: 1) thick glacial till, present in the areas of high rolling ground, and 2) clay and silt, present in the low swampy areas.

Any thickness of clay can result in an impervious soil layer that can prevent the normal transport of various elements from bedrock into the water table and subsequently into trees etc. for later detection in humus samples. Humus sampling in such areas of clay rich cover is not normally preferred. At the Halcrow Creek property most of our humus sampling was by necessity directed at such less than ideal areas, since most of our anomalies occur in areas of low swampy ground. In reviewing the analytical results received from such areas, we admit that the absence of anomalous gold values from a particular sample area can not be conclusive proof that the bedrock source is barren. However, the presence in any such area, of multiple sample sites, returning geochemically anomalous gold values should be considered especially significant. The presence of multiple anomalous samples is considered more significant than the absolute value of any single sample analyses.

In sampling areas of thick till, the target is typically a till streak rather than an insitu ore.

Areas of coincident humus gold values and significant geophysical and/or geological expression are considered a priority for detail evaluation.

Regional humus sampling completed by the writer in the period 1991-1992, in the area of the Halcrow Creek property, indicated a consistent background gold value of < 1 PPM, in areas removed from priority gold targets(Otton & Troup OPAP report 1991 & 1992).

During the current field program, preliminary humus sampling was directed at four specific IP chargeability anomalies; and three of these areas returned positive results as detailed in the following section on geophysical anomalies.

7. 1995 I.P & V.L.F GEOPHYSICAL SURVEYS

7.1 General

In the period June 15'th to July 7'th. 1995, an induced polarization/resistivity survey was completed over four lines of the main grid for a total of 7.5 line km's of grid. A V.L.F survey was completed over all 26 km's of established grid. In the period August 20'th to November 1, 1995, two lines of grid were established over potential extentions of the Lyall

Biedelman showing in the northeast sector of the property and I.P. surveying was initiated. Weather and equipment problems prevented completion of surveying on the western line. The time domain induced polarization/resistivity survey was carried out using a Phoenix IPT-1 transmitter, a Huntec MK IV receiver and a 2 kw motor generator . A dipole-dipole electrode array was used, with an electrode spacing of 25 meters. Readings were taken at Dipole separations n1-n4. The decay curve was measured with a delay time of 240 ms. The integration time was 160 ms. The data was recorded by hand and plotted in pseudosection format with chargeability, apparent resistivity and metal factor (drawing no's 1-4 of this report). Resultant anomalies are presented in summary form on the plotted compilation of geology, geophysics and geochemistry (drawing 8 of this report).

The V.L.F survey was carried out using a Geonics EM-16, with readings taken at 25 metre intervals on all grid lines. The VLF station used was NAA, Cutler, Maine, transmitting at 24.0 kHz. The data was recorded and plotted by hand (drawing #'s:5&6). A contoured Fraser Filter plot of the data is presented as drawing # 7.

7.2 Discussion Of Results

The VLF-EM conductors trend in a NW-SE direction and are generally conformable with stratigraphy. In-phase and quadrature responses vary from weak to strong throughout the survey area.

All Induced Polarization anomalies display a coincident VLF response.

Chargeability anomaly IP-1 is a broad anomaly coincident with VLF anomaly VLF-1. Two zones of anomalous gold values (zones 3 & 4) occur within the limits of IP-1. VLF-1 occurs on the north flank of a magnetic high, and parallels the Base Line of the grid for a strike length of over 1200 meters. The conductor axis follows a linear topographic low. Outcrops of sheared, carbonatized and variably pyritized mafic volcanics and porphyry are exposed locally. The chargeability anomaly is strongest and broadest on Line 0.00. Geochemically anomalous gold values were previously obtained from a 30 meter long trench located over the north sector of this anomaly. Within the trench exposure, pyrite content varies from approximately 2% to 10 %.

Chargeability anomaly IP-2, located near 13+00 S, extends from Line 1+25E to 2+50W. The anomaly is coincident in position with VLF anomaly #2. The VLF suggests the conductive horizon extends for an additional 125 meters to the west. The conductor occurs over a linear magnetic high which is strongest in the east. Anomalous gold values of up to 500 ppb were previously obtained from sampling a very localized rock exposure in a small trench at 1+30E, and 12+50 south. Humus geochemical sampling returned geochemically anomalous gold values from the overburden covered section of this anomaly on line 1+25 W, 255m west of the rock exposure. The chargeability is strongest on line 0+00. The very low resistivities observed over the west end of this anomalous trend may be suggestive of the local presence of graphite within the target horizon.. At the exposure

at 12+50 S on 1+30 E, anomalous gold values occur where massive pyrite occurs on the margin of a quartz vein present in a conformably sheared section of volcanic tuffs.

Anomaly IP-2 trends off the grid to the southeast and as a consequence, the eastern two lines of this survey detailed only part of the conductive horizon of interest.

Anomaly IP-3, located at 6+00 S, and extending from line 0+00 to Line 2+50 E, occurs near the interpreted sheared contact between a sill like intrusive of porphyry to the north and mafic volcanics to the south. A strong circular magnetic high located 300 meters to the northeast of IP-3 is believed to represent a larger intrusive about which the anomaly appears to wrap. There is a very subtle magnetic high associated with IP-3, which is most obvious on line 1+25E. IP-3 is coincident in position with VLF anomaly #3 which extends for over 1000 meters along strike. The axis of the conductor is overburden covered. Humus sampling was completed on lines 0+00 and 1+25 E and in both instances geochemically anomalous gold values were obtained near the conductor axis.

Anomaly IP-4, located at 10+00 south, and extending from line 0+00 to line 2+50 East, occurs on the south side of a linear magnetic high. The magnetic high occurs coincident with a ridge of outcropping mafic volcanics. Fine disseminated magnetite is a possible cause of the magnetic high. IP-4 occurs in a low area and is extensively overburden covered. The chargeability is strongest on line 0+00. Humus sampling over the conductor axis on line 0+00 returned no significant gold values; however, the sample area is low and swampy and a thick clay cover is expected. The negative geochemical results from this one line may be a function of the impervious nature of the overburden rather than the mineral content of the bedrock., and results should be treated with caution. While not a high priority at this time, this target remains of potential future interest, pending encouraging results from the surrounding area..

Anomaly IP-5, located at 4+00 N, and extending from Line 1+25W to 2+50 E correlates in position with a very subtle magnetic low. VLF anomaly 5 suggests the source conductor extends the length of the grid. The chargeability is strongest on lines 1+25E and 2+50E. VLF anomaly 5 coincides in position with IP-5, and extends the length of the grid, suggesting a possible formational nature for the conductive source. It is suggested this anomaly may connect with the south VLF conductor observed in the area of the "Lyall Beidelman" gold zone in the north-east corner of the property, and may represent the north contact of the mafic volcanics with the porphyry or granite intrusives to the north.

Outcrop is sparse along trend of the conductor axis and overburden thickness is quite variable. Humus sampling over the conductor axis on line 1+25W returned a marginally anomalous value of 3 ppb with background typically <1ppb. Follow-up humus sampling along the east extention of this conductor may prove effective in confirming the presence of anomalous gold wihin the conductive horizon..

Chargeability anomaly IP-6, located at 4+00S on line 2+50E, appears very distinct. The magnetics indicate a very subtle and very localized magnetic high in the area of the

conductor axis. A much stronger magnetic anomaly flanks the conductor to the north. The Frazer Filter VLF shows a weak anomaly extending from IP-6 eastward to the area of "Gold Zone #2" where a previous rock chip sample across the south margin of a narrow porphyry dike returned 0.1 oz/ton Au.

FUTURE RECOMMENDATIONS

An initial 5 hole diamond drill program, totaling 3,000 feet, is recommended to test conductors IP-1, 2 & 3.

Line cutting, IP surveying & Humus geochemical sampling should be initiated over select lines in the area of the Lyall-Beidelman gold occurrence, to determine the probable source of VLF anomalies reported previously in this area.

Further IP surveying should be initiated to extend IP-1 to and IP-6, to line 7+50 east.

Humus geochemical sampling should be initiated on several lines across the axis of VLF-5.

Diamond drilling should be initiated on targets resulting from IP and Humus geochemical sampling.

REFERENCES

- Donna, J.F, 1968; Geology of Halcrow-Ridout Lakes Area; Ont. Dept. of Mines, Geol. Rept. 63.
- Johnson, W. L. 1993; Geological Mapping, Trenching and Sampling on the Halcrow Creek Property, Halcrow Township, Porcupine Mining District, Ontario; Target Exploration Services Ltd. (available in assessment files)
- Karvinen, W.O. 1980; Report on the Gossan Resources Property, Halcrow Township, district of Sudbury, Ontario.; unpub. report (available in assessment files)
- Ontario Geological Survey, 1982; Airborne Electromagnetic Survey Swayze Area, (Input Survey).
- Troup, W.R. and Otton, B. 1991; Swayze Project - OPAP Grant #91-611 (Report on OPAP Project).
- Troup, W.R. 1995; Report On Magnetometer Survey Halcrow Township-1994

APPENDIX 1
STATEMENT OF COSTS

1. Contract Geophysics - I.P. Survey	
La Rose Geophysical.....	\$11,612.13
(IP Operator, crew & Equipment - 20 days)	
2a. Daily travel by truck to property.....	\$ 900.00
(3000 km's x \$0.30/km)	
2b. Mob-Demob to field.....	\$ 1,500.00
(Troup & Otton 6 mandays total (3 each)	
3. Accommodation & food 2 for 2 weeks.....	\$ 2,941.29
4. Salaries: W. Troup & B. Otton (48 mandays @ \$250/day).....	\$ 12,000.00
5. Assaying.....	\$ 3,054.45
6. Miscelaneous	
A. Drafting & Photocopying.....	\$ 2,524.75
B. Report preparation.....	\$ 400.00
C. Consumables.....	\$ 99.32.....\$ 3,024.07
Total.....	\$35,031.94

* The 1995 work program was completed in the time period June 5th to November 15'th 1995, and involved 3 separate work sessions:

1. 6/24/95 - 7/7/95.....Line cutting, prospecting & geophysics and humus sampling on main grid.
2. 9/24/95 - 10/20/95....Line cutting & humus sampling on L/B grid
3. 11/1/95 - 11/14/95....I.P. survey on L/B grid

** For Assessment purposes, field work by W. Troup & B. Otton has been charged at \$250/manday.

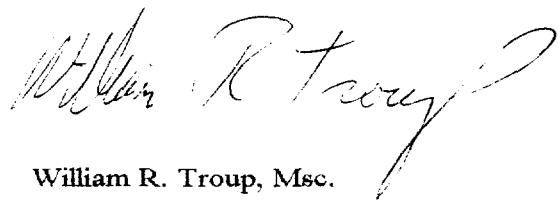
ASSESSMENT WORK DISTRIBUTION

ASSESSMENT WORK DISTRIBUTION										
CLAIM #	CONTRACT		LABOUR W TROUP & B OTTON			Assays	Miscellaneous	Mob-demob & Travel	Food & Lodging	Total
	L.C & I.P.	L.C & I.P.	V.L.F.	Humus	Prospection					
1150962	\$8,612.13	\$6,000.00	\$1,000.00	\$700.00	\$600.00	\$2,054.45	\$2,024.07	\$1,000.00	\$1,500.00	\$23,490.65
1150965			\$100.00	\$100.00	\$100.00		\$150.00	\$100.00	\$200.00	\$750.00
1150966										
1150967			\$275.00	\$200.00	\$200.00		\$350.00	\$200.00	\$200.00	\$1,425.00
1150968										
1150969										
1150974										
1205434	\$1,000.00	\$1,000.00		\$100.00			\$125.00	\$500.00	\$400.00	\$3,125.00
1205435	\$2,000.00	\$1,250.00		\$150.00	\$225.00	\$1,000.00	\$375.00	\$600.00	\$641.29	\$6,241.29
	\$11,612.13	\$8,250.00	\$1,375.00	\$1,250.00	\$1,125.00	\$3,054.00	\$3,024.07	\$2,400.00	\$2,941.29	\$35,031.94

APPENDIX 2
CERTIFICATE OF QUALIFICATIONS

I, William R. Troup, of Mississauga, Ontario, hereby certify and declare the following:

1. I am a Consulting Geologist and President of Alcanex Ltd., a service company providing geological services and project management to the mineral exploration industry.
2. I graduated from the University of Waterloo with an Msc. degree in Geology in 1975.
3. I have been practicing my profession for the past 24 years.
4. I am a fellow in the Geological Association of Canada.
5. I personally planned and supervised the Halcrow Creek project completed in the fall of 1995.
6. The opinions expressed in this report are based on my own observations and on my review of public geological reports on the area.



William R. Troup, Msc.
F.G.A.C.

Mississauga, Ontario
September, 1996

APPENDIX - 3

LOCATION OF ROCK SAMPLES & ANALYTICAL RESULTS-ROCK & HUMUS

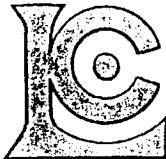
APPENDIX 3
ROCK SAMPLES

Sample #	Location	Type	Description
3051	Main Grid, 1+69N, 0+23E	grab sample	Quartz vein, 2-10% py
3052	Main Grid, 1+69N, 0+23E	grab sample	Quartz vein in mafic volcanics, py, carbonate, 2 cm wide q.v.
3053	Main Grid, B.L., 3+35E	grab sample,	sheared, carbonated mafic volcanic
3054	Main Grid, 5+00E, 4+00N	grab sample	sheared mafic volcanics. pervasive carbonate alt'n.
3055	Main Grid, 5+00E, 4+00N	boulder	sheared, rusty porphyry, pervasive carbonate alt'n.
3056	Main Grid, 5+00E, 5+00N	grab sample	sheared porphyry, pervasive carbonate alt'n, minor quartz veining
3057	Main Grid, B.L., 1+30W	grab sample	sheared volcanics with trace to 3% disseminated po.
3058	Main Grid, 1+25W, 5+75S	grab sample	sheared mafic volcanics with quartz veinlets and trace to 1% disseminated py.
3059	Main Grid, 1+25W, 5+75S	grab sample	silicified volcanics, pervasive carbonate alteration.
3060	Main Grid, 1+20E, 12+85S	grab sample	sheared mafic volcanics with pervasive carbonate alteration strike, 140 deg.; dip 87 deg N.
3061	Main Grid, 5+00W, 0+65N	grab sample	8-10 cm wide q.v. in sheared, carbonate enriched porphyry; strike 50 deg., dip 80 deg's south;
3062	Main Grid, 5+00W, 0+90S	grab sample	Sheared granite or porphyry, strike 50 deg's, 3-5 py

3063	Main Grid, 1+20W, 3+10N	grab sample	Sheared Volc's?, strike 30 deg. dip 80 deg's E; carbonate enriched.
3064	Main Grid, 0+00W, 4+50N	grab sample	Meta-Greywacke?, carbonate enriched.
3065	Main Grid, 1+70E, 3+30N	grab sample	Porphyry, sheared; trace sulphides
3066	Main Grid, 1+00E, 3+30N	grab sample	narrow Quartz Vein,
3067	Main Grid, 6+90E 6+95S	grab sample	carbonate enriched m.v. with trace py.
3068	Main Grid, Access Rd. north of claim group	grab sample	pyrite rich section of granite gneiss?
3075	Lyall-Beidelman Grid 6+25 E, 1+50S	Fly Rock from trench	Red syenite with 1/2" wide quartz veinlets & 2-3% py
3076	Lyall-Beidelman Grid 6+80E, 1+40S	Fly Rock from trench -composite grab	Red syenite, brecciated with qtz veinlets & py (+/- aspy & cpy)
3077	Lyall-Beidelman Grid 6+00E & Base Line	grab sample	10 cm. wide q.v. in syenite with trace py & ankerite
3078	Lyall-Beidelman Grid 6+50E, 1+50S	Fly Rock from trench -grab sample	Bleached syenite with many qtz stringers & 2-4% id. py
3079	Lyall-Beidelman Grid 6+25E, 1+50S	Fly Rock from trench -grab sample	Quartz vein with 1% py
3080	Lyall-Beidelman Grid 6+25E, 1+50S	Fly Rock from trench	Red syenite with 2 cm wide q.v. & 2% py
3081	Lyall-Beidelman Grid 6+50E, 1+50S	grab Sample -in place	Bleached gray syenite with 4-5% fine diss. py +/- aspy

3082	Lyall-Beidelman Grid 6+25E, 1+50S	grab Sample -in place	Dark gray syenite with trace to 2% py in fractures with q.v. & carbonate
3083	Lyall-Beidelman Grid 6+50E, 1+50S	grab Sample from in place bldr. in trench	Bleached, gray-pink syenite with minor qtz. veinlets +/- carbonate 2-3 % py +/- other sulphides
3084	Lyall-Beidelman Grid 4+50E & Base Line	grab Sample from o/c	Sheared volcanics or porphyry ? -pervasive iron carbonate alt'n, q.v. + 1 %py
3085	Lyall-Beidelman Grid 4+50E, 1+75N	large angular rusty boulder	Sheared porphyry, pervasive carbonate alteration.

3082	Lyall-Biedelman Grid 6+25E, 1+50S	grab Sample -in place	Dark gray syenite with trace to 2% py in fractures with q.v. & carbonate
3083	Lyall-Biedelman Grid 6+50E, 1+50S	grab Sample from in place bldr. in trench	Bleached, gray-pink syenite with minor qtz. veinlets +/- carbonate 2-3 % py +/- other sulphides
3084	Lyall-Biedelman Grid 4+50E & Base Line	grab Sample from o/c	Sheared volcanics or porphyry ? -pervasive iron carbonate alt'n, q.v. + 1 %py
3085	Lyall-Biedelman Grid 4+50E, 1+75N	large angular rusty boulder	Sheared porphyry, pervasive carbonate alteration.



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To: TROUP, W. R.

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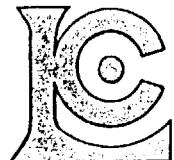
1365 CLARKSON RD. N.
MISSISSAUGA, ON
L5J 2W6

INVOICE NUMBER

I 9 5 2 2 0 5 3

BILLING INFORMATION	
Date:	24-JUL-95
Project:	
P.O. No.:	
Account:	MUY
Comments:	
Billing:	For analysis performed on Certificate A9522053
Terms:	Payment due on receipt of invoice 1.25% per month (15% per annum) charged on overdue accounts
Please Remit Payments to:	
CHEMEX LABS LTD. 212 Brooksbank Ave., North Vancouver, B.C. Canada V7J 2C1	

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
18	205 - Geochem ring to approx 150 mesh 226 - 0-3 Kg crush and split 3202 - Rock - save entire reject ICP-32 983 - Au ppb FA+AA	2.50 2.60 0.50 7.00 9.75	22.35	402.30
			Total Cost \$	402.30
			(Reg# R100938885) GST \$	28.16
			TOTAL PAYABLE (CDN) \$	430.46



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 5175 Timberlea Blvd., Mississauga
 Ontario, Canada L4W 2S3
 PHONE: 905-624-2806 FAX: 905-624-6163

To: TROUP, W. R.

1365 CLARKSON RD. N.
 MISSISSAUGA, ON
 L5J 2W6

A952205

Comments: ATN: W. R. TROUP

CERTIFICATE

A9522053

(MUY) - TROUP, W. R.

Project:
P.O. #:

Samples submitted to our lab in Mississauga, ON.
This report was printed on 24-JUL-95.

SAMPLE PREPARATION

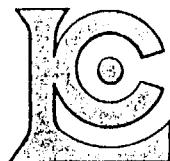
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	18	Geochem ring to approx 150 mesh
226	18	0-3 Kg crush and split
3202	18	Rock - save entire reject
229	18	ICP - AQ Digestion charge

* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	18	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
2118	18	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	200
2119	18	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	18	As ppm: 32 element, soil & rock	ICP-AES	2	10000
2121	18	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	18	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	18	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	18	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	18	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2126	18	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	18	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	18	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	18	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	18	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
2131	18	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
2132	18	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	18	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	18	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	18	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	18	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	18	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
2138	18	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	18	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	18	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
2141	18	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	18	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	18	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	18	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
2145	18	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	18	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	18	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	18	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	18	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000



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To: TROUP, W. R.

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1365 CLARKSON RD. N.
 MISSISSAUGA, ON
 L5J 2W6

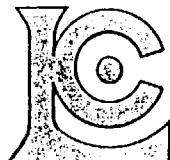
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 Total Pages : 1
 Certificate Date: 24-JUL-95
 Invoice No. : I9522053
 P.O. Number :
 Account : MUY

Project:
 Comments: ATN: W. R. TROUP

CERTIFICATE OF ANALYSIS A9522053

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	A1 %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
3051	205 226	< 5 < 0.2 0.51	< 2 10 < 0.5	< 2 6.51	1.5 8	182 43	1.13 < 10	< 1 < 0.01	< 10 0.31	825										
3052	205 226	< 5 < 0.2 1.61	< 2 40 < 0.5	4 8.72	< 0.5 35	91 106	3.62 < 10	< 1 0.01	< 10 1.13	1120										
3053	205 226	30 < 0.2 2.47	8 40 < 0.5	2 3.88	< 0.5 34	134 113	4.95 < 10	< 1 0.09	< 10 2.32	1005										
3054	205 226	< 5 < 0.2 3.29	2 10 < 0.5	2 4.50	< 0.5 33	196 87	5.16 < 10	< 1 < 0.01	< 10 1.95	1115										
3055	205 226	< 5 < 0.2 0.74	< 2 100 < 0.5	< 2 3.55	< 0.5 40	86 83	6.34 < 10	< 1 0.03	< 10 1.63	1505										
3056	205 226	< 5 < 0.2 0.41	124 70 < 0.5	< 2 0.21	< 0.5 10	90 29	2.28 < 10	< 1 0.13	20 0.08	475										
3057	205 226	30 0.2 - 2.99	< 2 < 10 < 0.5	4 4.80	< 0.5 31	108 215	3.60 < 10	1 0.06	< 10 0.85	385										
3058	205 226	< 5 < 0.2 0.53	< 2 10 < 0.5	< 2 0.35	< 0.5 2	108 4	1.03 < 10	< 1 0.04	< 10 0.20	205										
3059	205 226	< 5 0.2 0.82	< 2 190 < 0.5	< 2 0.36	< 0.5 9	59 14	1.97 < 10	< 1 0.44	20 0.56	345										
3060	205 226	< 5 < 0.2 2.16	< 2 70 < 0.5	< 2 0.47	< 0.5 9	88 22	4.97 < 10	< 1 0.53	10 0.81	790										
3061	205 226	< 5 < 0.2 1.24	< 2 110 < 0.5	4 0.15	< 0.5 9	254 35	2.37 < 10	< 1 0.64	10 0.77	355										
3062	205 226	< 5 < 0.2 1.59	< 2 140 < 0.5	< 2 0.14	< 0.5 14	350 58	2.58 < 10	< 1 0.63	10 1.02	375										
3063	205 226	< 5 < 0.2 1.18	< 2 520 < 0.5	2 0.61	< 0.5 10	134 100	1.69 < 10	< 1 0.52	40 0.63	135										
3064	205 226	< 5 < 0.2 1.85	< 2 100 < 0.5	4 1.00	< 0.5 14	100 102	2.78 < 10	< 1 0.38	< 10 0.99	200										
3065	205 226	95 < 0.2 4.00	< 2 10 < 0.5	< 2 5.81	< 0.5 28	139 16	6.24 < 10	< 1 0.05	< 10 2.93	1565										
3066	205 226	< 5 < 0.2 2.99	< 2 10 < 0.5	< 2 5.35	< 0.5 21	187 21	4.52 < 10	< 1 0.04	< 10 2.14	1265										
3067	205 226	< 5 < 0.2 2.69	18 40 < 0.5	2 2.79	< 0.5 34	183 96	4.33 < 10	< 1 0.08	< 10 1.28	1325										
3068	205 226	< 5 0.6 0.66	< 2 100 < 0.5	< 2 0.39	< 0.5 67	110 584	5.98 < 10	< 1 0.25	20 0.58	110										

CERTIFICATION: Heinz Buehler



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 PHONE: 905-624-2806 FAX: 905-624-6163

To: TROUP, W. R.

**

1365 CLARKSON RD. N.
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Page Number : 1-B
 Total Pages : 1
 Certificate Date: 24-JUL-95
 Invoice No. : 19522053
 P.O. Number :
 Account : MUY

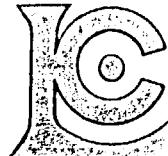
Project :
 Comments: ATN: W. R. TROUP

CERTIFICATE OF ANALYSIS

A9522053

SAMPLE	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
3051	205 226	1 < 0.01	24	180	2	2	2	21	0.04	< 10	< 10	19	< 10	118	
3052	205 226	< 1 0.02	59	160	< 2	4	13	48	0.27	< 10	< 10	85	10	58	
3053	205 226	< 1 0.02	68	230	< 2	6	7	55	0.30	< 10	< 10	130	20	26	
3054	205 226	< 1 0.02	98	180	< 2	2	6	16	0.29	< 10	< 10	88	20	70	
3055	205 226	< 1 0.05	65	450	< 2	4	14	88 < 0.01	< 10	< 10	< 10	68	10	42	
3056	205 226	< 1 0.03	23	570	16	2	1	26 < 0.01	< 10	< 10	< 10	9	< 10	50	
3057	205 226	< 1 0.08	45	300	2	4	9	17 0.22	< 10	< 10	< 10	95	10	24	
3058	205 226	< 1 0.07	7	160	< 2	2	1	4 < 0.01	< 10	< 10	< 10	6	< 10	14	
3059	205 226	< 1 0.06	21	650	22	2	2	25 0.04	< 10	< 10	< 10	26	< 10	94	
3060	205 226	1 0.04	15	1020	< 2	2	8	13 0.14	< 10	< 10	< 10	18	< 10	66	
3061	205 226	< 1 0.03	46	60	4	2	7	3 0.17	< 10	< 10	< 10	56	< 10	46	
3062	205 226	18 0.03	70	60	4	< 2	8	3 0.14	< 10	< 10	< 10	78	< 10	46	
3063	205 226	< 1 0.11	26	780	10	< 2	4	25 0.12	< 10	< 10	< 10	76	< 10	30	
3064	205 226	< 1 0.09	29	480	< 2	4	8	8 0.07	< 10	< 10	< 10	61	< 10	90	
3065	205 226	< 1 0.01	56	260	4	4	23	29 0.01	< 10	< 10	< 10	184	20	68	
3066	205 226	< 1 0.01	37	140	< 2	2	11	16 < 0.01	< 10	< 10	< 10	102	10	44	
3067	205 226	< 1 0.16	93	260	< 2	2	23	32 0.07	< 10	< 10	< 10	142	10	42	
3068	205 226	8 0.08	160	300	68	4	6	17 0.05	< 10	< 10	< 10	41	< 10	18	

CERTIFICATION: *[Signature]*



Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: TROUP, W. R.

**

1365 CLARKSON RD. N.
MISSISSAUGA, ON
L5J 2W6

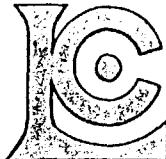
INVOICE NUMBER

I 9 5 2 2 0 5 6

BILLING INFORMATION	
Date:	20-JUL-95
Project:	
P.O. No.:	
Account:	MUY
Comments:	
Billing:	For analysis performed on Certificate A9522056
Terms:	Payment due on receipt of invoice 1.25% per month (15% per annum) charged on overdue accounts
Please Remit Payments to:	
CHEMEX LABS LTD. 212 Brooksbank Ave., North Vancouver, B.C. Canada V7J 2C1	

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
71	217 - Geochem ring entire sample 993 - Au NAA ppb	2.50 12.00	14.50	1029.50
			Total Cost \$ (Reg# R100938885)	1029.50 72.07
			GST \$	
			TOTAL PAYABLE (CDN) \$	1101.57

430 46
1531.53



Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: TROUP, W. R.

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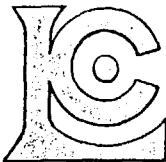
1365 CLARKSON RD. N.
MISSISSAUGA, ON
L5J 2W6

INVOICE NUMBER

I 9 5 2 2 0 5 6

BILLING INFORMATION	
Date:	20-JUL-95
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CHEMEX LABS LTD. 212 Brooksbank Ave., North Vancouver, B.C. Canada V7J 2C1	
COPY	

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
71	217 - Geochem ring entire sample 993 - Au NAA ppb	2.50 12.00	14.50	1029.50
			Total Cost \$ (Reg# R100938885)	1029.50 GST \$ 72.07
			TOTAL PAYABLE (CDN) \$	
				1101.57



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5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: TROUP, W. R.
1365 CLARKSON RD. N.
MISSISSAUGA, ON
L5J 2W6

A9522056

Comments: ATN; W.R. TROUP

CERTIFICATE

A9522056

(MUY) - TROUP, W. R.

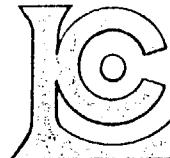
Project:
P.O. #:

Samples submitted to our lab in Mississauga, ON.
This report was printed on 20-JUL-95.

SAMPLE PREPARATION		
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
217	71	Geochem ring entire sample

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
993	71	Au ppb: Fuse 30 g sample	FA-NAA	1	10000



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Page Number : 1
 Total Pages : 2
 Certificate Date: 20-JUL-95
 Invoice No. : 19522056
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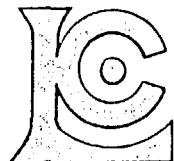
Project :
 Comments: ATN; W.R. TROUP

Humus - M,4 IN 0-R1D

CERTIFICATE OF ANALYSIS A9522056

SAMPLE	PREP CODE	Au NAA ppb									
L1+25W 2+70N	217	--	3								
L1+25W 2+75N	217	--	< 1								
L1+25W 2+80N	217	--	< 1								
L1+25W 2+85N	217	--	< 1								
L1+25W 2+95N	217	--	< 1								
L1+25W 3+00N	217	--	< 1								
L1+25W 2+75S	217	--	< 1								
L1+25W 2+85S	217	--	< 1								
L1+25W 2+95S	217	--	4								
L1+25W 3+05S	217	--	6								
L1+25W 3+15S	217	--	< 1								
L1+25W 3+25S	217	--	< 1								
L1+25W 11+20S	217	--	12								
L1+25W 11+30S	217	--	5								
L1+25W 11+40S	217	--	6								
L1+25W 11+50S	217	--	< 1								
L1+25W 11+60S	217	--	< 1								
L1+25W 11+70S	217	--	3								
L1+25W 11+80S	217	--	< 1								
L01 09+90S	217	--	5								
L01 10+00S	217	--	< 1								
L01 10+10S	217	--	< 1								
L01 10+20S	217	--	< 1								
L01 10+30S	217	--	< 1								
L01 10+40S	217	--	< 1								
L01 10+50S	217	--	< 1								
L01 10+60S	217	--	< 1								
L01 6+10S	217	--	< 1								
L01 6+20S	217	--	< 1								
L01 6+30S	217	--	< 1								
L01 6+40S	217	--	< 1								
L01 6+50S	217	--	< 1								
L01 6+60S	217	--	< 1								
L0+00 6+70S	217	--	2								
L0+00 6+80S	217	--	17								
L0+00 6+90S	217	--	4								
L0+00 7+00S	217	--	3								
L0+00 11+55S	217	--	< 1								
L0+00 11+65S	217	--	< 1								
L0+00 11+75S	217	--	< 1								

CERTIFICATION



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 1365 CLARKSON RD. N.
 MISSISSAUGA, ON
 L5J 2W6

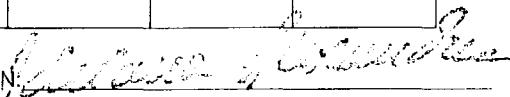
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 Comments: ATN; W.R. TROUP

Page Number :2
 Total Pages :2
 Certificate Date: 20-JUL-95
 Invoice No.: I9522056
 P.O. Number:
 Account :MUY

CERTIFICATE OF ANALYSIS A9522056

SAMPLE	PREP CODE	Au NAA ppb										
L0+00 11+85S	217	--	< 1									
L0+00 11+95S	217	--	< 1									
L0+00 12+05S	217	--	< 1									
L0+00 12+15S	217	--	< 1									
L0+00 12+25S	217	--	< 1									
L1+25E 05+90S	217	--	< 1									
L1+25E 06+00S	217	--	< 1									
L1+25E 06+10S	217	--	17									
L1+25E 06+20S	217	--	< 1									
L1+25E 06+30S	217	--	4									
L1+25E 06+40S	217	--	< 1									
L1+25E 06+50S	217	--	< 1									
L1+25E 06+60S	217	--	3									
L1+25E 12+00S	217	--	< 1									
L1+25E 12+05S	217	--	4									
L1+25E 12+10S	217	--	19									
L1+25E 12+20S	217	--	4									
L1+25E 12+25S	217	--	5									
L1+25E 12+30S	217	--	< 1									
L1+25E 12+35S	217	--	9									
L1+25E 12+40S	217	--	< 1									
L1+25E 12+45S	217	--	3									
L1+25E 12+50S	217	--	< 1									
L1+25E 12+55S	217	--	< 1									
L1+25E 12+60S	217	--	3									
L1+25E 12+65S	217	--	< 1									
L1+25E 12+70S	217	--	< 1									
L1+25E 12+75S	217	--	7									
L1+25E 12+80S	217	--	< 1									
L1+25E 12+85S	217	--	9									
L1+25E 12+90S	217	--	3									

CERTIFICATION:





Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 5175 Timberlea Blvd., Mississauga
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 PHONE: 905-624-2806 FAX: 905-624-6163

To: TROUP, W. R.

1365 CLARKSON RD. N.
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 L5J 2W6

Project:
 Comments: ATN; W.R. TROUP

Page Number :1
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 Account : MUY

CERTIFICATE OF ANALYSIS A9522056

SAMPLE	PREP CODE	Au NAA ppb										
L1+25W 2+70N	217	--	3									
L1+25W 2+75N	217	--	< 1									
L1+25W 2+80N	217	--	< 1									
L1+25W 2+85N	217	--	< 1									
L1+25W 2+95N	217	--	< 1									
L1+25W 3+00N	217	--	< 1									
L1+25W 2+75S	217	--	< 1									
L1+25W 2+85S	217	--	< 1									
L1+25W 2+95S	217	--	4									
L1+25W 3+05S	217	--	6									
L1+25W 3+15S	217	--	< 1									
L1+25W 3+25S	217	--	< 1									
L1+25W 11+20S	217	--	12									
L1+25W 11+30S	217	--	5									
L1+25W 11+40S	217	--	6									
L1+25W 11+50S	217	--	< 1									
L1+25W 11+60S	217	--	< 1									
L1+25W 11+70S	217	--	3									
L1+25W 11+80S	217	--	< 1									
L01 09+90S	217	--	5									
L01 10+00S	217	--	< 1									
L01 10+10S	217	--	< 1									
L01 10+20S	217	--	< 1									
L01 10+30S	217	--	< 1									
L01 10+40S	217	--	< 1									
L01 10+50S	217	--	< 1									
L01 10+60S	217	--	< 1									
L01 6+10S	217	--	< 1									
L01 6+20S	217	--	< 1									
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L01 6+40S	217	--	< 1									
L01 6+50S	217	--	< 1									
L01 6+60S	217	--	< 1									
L0+00 6+70S	217	--	2									
L0+00 6+80S	217	--	17									
L0+00 6+90S	217	--	4									
L0+00 7+00S	217	--	3									
L0+00 11+55S	217	--	< 1									
L0+00 11+65S	217	--	< 1									
L0+00 11+75S	217	--	< 1									

CERTIFICATION:



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 5175 Timberlea Blvd., Mississauga
 Ontario, Canada L4W 2S3
 PHONE: 905-624-2806 FAX: 905-624-6163

To: TROUP, W. R.

..

1365 CLARKSON RD. N.
 MISSISSAUGA, ON
 L5J 2W6

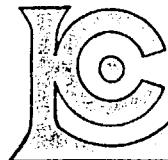
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 Total Pages :2
 Certificate Date: 20-JUL-95
 Invoice No. : 19522056
 P.O. Number :
 Account : MUY

Project :
 Comments: ATN; W.R. TROUP

CERTIFICATE OF ANALYSIS A9522056

SAMPLE	PREP CODE	Au NAA ppb										
L0+00 11+85S	217	--	< 1									
L0+00 11+95S	217	--	< 1									
L0+00 12+05S	217	--	< 1									
L0+00 12+15S	217	--	< 1									
L0+00 12+25S	217	--	< 1									
L1+25E 05+90S	217	--	< 1									
L1+25E 06+00S	217	--	< 1									
L1+25E 06+10S	217	--	17									
L1+25E 06+20S	217	--	< 1									
L1+25E 06+30S	217	--	4									
L1+25E 06+40S	217	--	< 1									
L1+25E 06+50S	217	--	< 1									
L1+25E 06+60S	217	--	3									
L1+25E 12+00S	217	--	< 1									
L1+25E 12+05S	217	--	4									
L1+25E 12+10S	217	--	19									
L1+25E 12+20S	217	--	4									
L1+25E 12+25S	217	--	5									
L1+25E 12+30S	217	--	< 1									
L1+25E 12+35S	217	--	9									
L1+25E 12+40S	217	--	< 1									
L1+25E 12+45S	217	--	3									
L1+25E 12+50S	217	--	< 1									
L1+25E 12+55S	217	--	< 1									
L1+25E 12+60S	217	--	3									
L1+25E 12+65S	217	--	< 1									
L1+25E 12+70S	217	--	< 1									
L1+25E 12+75S	217	--	7									
L1+25E 12+80S	217	--	< 1									
L1+25E 12+85S	217	--	9									
L1+25E 12+90S	217	--	3									

CERTIFICATION



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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: TROUP, W. R.

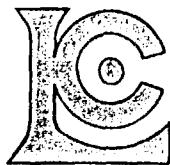
*
1365 CLARKSON RD. N.
MISSISSAUGA, ON
L5J 2W6

INVOICE NUMBER

I 9 5 3 0 7 1 3

BILLING INFORMATION	
Date:	18-OCT-95
Project:	HAL CRO
P.O. No.:	
Account:	NBW
Comments:	
Billing:	For analysis performed on Certificate A9530713
Terms:	Payment due on receipt of invoice 1.25% per month (15% per annum) charged on overdue accounts
Please Remit Payments to:	
CHEMEX LABS LTD. 212 Brooksbank Ave., North Vancouver, B.C. Canada V7J 2C1	

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
11	205 - Geochem ring to approx 150 mesh 226 - 0-3 Kg crush and split 3202 - Rock - save entire reject ICP-32 983 - Au ppb FA+AA	2.50 2.60 0.50 7.00 9.75	22.35	245.85
		Total Cost \$	245.85	
	(Reg# R100938885)	GST \$	17.21	
		TOTAL PAYABLE (CDN) \$	263.06	



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 5175 Timberlea Blvd., Mississauga
 Ontario, Canada L4W 2S3
 PHONE: 905-624-2806 FAX: 905-624-6163

To: TROUP, W. R.

1365 CLARKSON RD. N.
 MISSISSAUGA, ON
 L5J 2W6

A9530713

Comments: ATTN: WILLIAM TROUP

CERTIFICATE

A9530713

(NBW)

Project: HAL CRO
 P.O. #:

Samples submitted to our lab in Mississauga, ON.
 This report was printed on 18-OCT-95.

SAMPLE PREPARATION

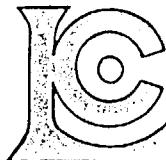
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	11	Geochem ring to approx 150 mesh
226	11	0-3 Kg crush and split
3202	11	Rock - save entire reject
229	11	ICP - AQ Digestion charge

* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	11	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
2118	11	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	200
2119	11	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	11	As ppm: 32 element, soil & rock	ICP-AES	2	10000
2121	11	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	11	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	11	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	11	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	11	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2126	11	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	11	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	11	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	11	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	11	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
2131	11	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
2132	11	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	11	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	11	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	11	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	11	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	11	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
2138	11	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	11	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	11	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
2141	11	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	11	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	11	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	11	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
2145	11	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	11	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	11	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	11	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	11	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000



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To: TROUP, W. R.

1365 CLARKSON RD. N.
 MISSISSAUGA, ON
 L5J 2W6

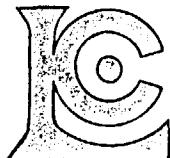
Page Number : 1-A
 Total Pages : 1
 Certificate Date: 18-OCT-95
 Invoice No. : 19530713
 P.O. Number :
 Account : NBW

Project: HAL CRO
 Comments: ATTN: WILLIAM TROUP

CERTIFICATE OF ANALYSIS A9530713

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
3075	205 226	170 < 0.2	0.53	74	220 < 0.5	< 2	2.35	< 0.5	14	126	20	2.48	10	< 1	0.31	50	0.92	690		
3076	205 226	580 2.2	0.33	4600	180 < 0.5	< 2	3.79	< 0.5	8	78	12	2.16	10	< 1	0.14	60	0.85	830		
3077	205 226	< 5 < 0.2	0.14	48	50 < 0.5	4	1.30	< 0.5	3	234	8	0.56	< 10	< 1	0.09	< 10	0.04	235		
3078	205 226	960 0.4	0.20	8490	140 < 0.5	4	2.40	< 0.5	8	66	65	2.11	10	< 1	0.12	50	0.92	710		
3079	205 226	8340 1.4	0.15	6590	130 < 0.5	< 2	2.45	< 0.5	8	143	32	1.83	< 10	< 1	0.10	20	1.03	570		
3080	205 226	710 0.4	0.38	2480	140 < 0.5	2	2.98	< 0.5	12	80	32	2.15	10	< 1	0.19	30	1.36	640		
3081	205 226	585 0.4	0.39	2190	100 < 0.5	< 2	2.20	< 0.5	10	70	24	2.16	10	< 1	0.16	60	0.93	620		
3082	205 226	20 0.2	0.65	190	140 < 0.5	2	1.96	< 0.5	9	74	27	2.16	10	< 1	0.21	50	1.04	525		
3083	205 226	525 0.2	0.35	444	180 < 0.5	< 2	2.09	< 0.5	9	54	101	2.36	20	< 1	0.14	70	0.80	590		
3084	205 226	< 5 < 0.2	1.72	30	50 < 0.5	< 2	7.25	< 0.5	36	487	73	5.38	< 10	< 1	0.15	< 10	4.31	1360		
3085	205 226	< 5 < 0.2	0.60	< 2	110 < 0.5	< 2	2.98	< 0.5	25	125	39	4.62	10	< 1	0.30	60	1.62	710		

CERTIFICATION:



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 5175 Timberlea Blvd., Mississauga
 Ontario, Canada L4W 2S3
 PHONE: 905-624-2806 FAX: 905-624-6163

To: TROUP, W. R.

1365 CLARKSON RD. N.
 MISSISSAUGA, ON
 L5J 2W6

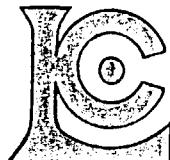
Project: HAL CRO
 Comments: ATTN: WILLIAM TROUP

Page Number : 1-B
 Total Pages : 1
 Certificate Date: 18-OCT-93
 Invoice No.: 19530713
 P.O. Number :
 Account : NBW

CERTIFICATE OF ANALYSIS A9530713

SAMPLE	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
3075	205 226	< 1	0.04	35	1380	14	6	3	450	< 0.01	< 10	< 10	18	10	30
3076	205 226	65	0.05	16	890	14	8	3	823	< 0.01	< 10	< 10	20	10	38
3077	205 226	1	0.02	9	190	< 2	2	< 1	103	< 0.01	< 10	< 10	2	< 10	12
3078	205 226	< 1	0.07	20	990	18	4	2	629	< 0.01	10	< 10	10	10	30
3079	205 226	2	0.03	20	710	104	4	2	584	< 0.01	< 10	< 10	8	< 10	38
3080	205 226	< 1	0.04	25	1340	22	< 2	2	795	< 0.01	< 10	< 10	17	10	36
3081	205 226	< 1	0.07	20	1090	82	4	2	664	< 0.01	10	< 10	22	< 10	60
3082	205 226	4	0.07	23	1090	20	4	3	466	0.01	10	< 10	29	< 10	56
3083	205 226	10	0.06	18	1100	18	2	3	355	< 0.01	10	< 10	20	< 10	80
3084	205 226	< 1	0.02	476	330	< 2	12	15	170	< 0.01	< 10	< 10	51	20	74
3085	205 226	< 1	0.04	114	1270	< 2	2	11	134	< 0.01	< 10	< 10	53	10	30

CERTIFICATION: _____



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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: TROUP, W. R.

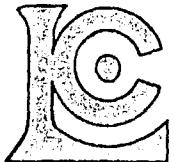
1365 CLARKSON RD. N.
MISSISSAUGA, ON
L5J 2W6

INVOICE NUMBER

I 9 5 3 0 7 1 8

BILLING INFORMATION	
Date:	18-OCT-95
Project:	HALCRO
P.O. No.:	
Account:	NBW
Comments:	
Billing:	For analysis performed on Certificate A9530718
Terms:	Payment due on receipt of invoice 1.25% per month (15% per annum) charged on overdue accounts
Please Remit Payments to:	
CHEMEX LABS LTD. 212 Brooksbank Ave. North Vancouver, B.C. Canada V7J 2C1	

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
55	217 - Geochem ring entire sample ICP-9g	2.50 6.50		
	993 - Au NAA ppb	12.00	21.00	1155.00
			Total Cost \$ (Reg# R100938885)	1155.00 GST \$ 80.85
			TOTAL PAYABLE (CDN) \$	
			1235.85	



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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To: TROUP, W. R.

1365 CLARKSON RD. N.
 MISSISSAUGA, ON
 L5J 2W6

A9530718

Comments: ATTN: BILL TROUP

CERTIFICATE

A9530718

(NBW)

Project: HALCRO
 P.O. #:

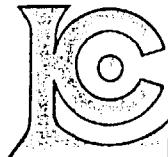
Samples submitted to our lab in Mississauga, ON.
 This report was printed on 18-OCT-95.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
217	55	Geochem ring entire sample
298	55	ICP - AQ Digestion charge

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
993	55	Au ppb: Fuse 30 g sample	FA-NAA	1	10000
2118	55	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	200
2120	55	As ppm: 32 element, soil & rock	ICP-AES	2	10000
2123	55	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2128	55	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2131	55	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
2136	55	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2140	55	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
2141	55	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2149	55	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000



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To: TROUP, W. R.

1365 CLARKSON RD. N.
 MISSISSAUGA, ON
 L5J 2W6

Page Number :1
 Total Pages :2
 Certificate Date: 18-OCT-95
 Invoice No. :19530718
 P.O. Number :
 Account :NBW

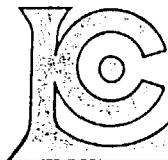
Project: HALCRO
 Comments: ATTN: BILL TROUP

HUMUS - LYALL BEARPLAN JR.R

CERTIFICATE OF ANALYSIS A9530718

SAMPLE	PREP CODE	Au NAA ppb	Ag ppm	As ppm	Bi ppm	Cu ppm	Hg ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
4E 0+00	217 298	4	< 0.2	< 2	< 2	15	< 1	< 1	26	< 2	74
4E 0+25N	217 298	< 1	< 0.2	< 2	< 2	14	< 1	< 1	50	< 2	152
4E 0+50N	217 298	5	< 0.2	< 2	< 2	14	< 1	< 1	8	< 2	188
4E 0+62.5N	217 298	< 1	< 0.2	< 2	< 2	16	< 1	< 1	16	< 2	208
4E 0+75N	217 298	< 1	< 0.2	< 2	< 2	16	< 1	< 1	74	< 2	114
4E 0+87.5N	217 298	< 1	< 0.2	< 2	< 2	14	< 1	< 1	32	< 2	112
4E 1+00N	217 298	6	< 0.2	< 2	< 2	14	< 1	< 1	16	< 2	142
4E 1.12.5N	217 298	1	0.2	4	< 2	25	< 1	< 1	106	< 2	78
4E 1+25N	217 298	< 1	< 0.2	< 2	< 2	20	< 1	< 1	70	< 2	122
4E 1+37.5N	217 298	< 1	< 0.2	< 2	< 2	17	< 1	< 1	76	< 2	76
4E 1+50N	217 298	< 1	< 0.2	< 2	< 2	12	< 1	< 1	72	< 2	44
4E 1+62.5N	217 298	< 1	< 0.2	< 2	< 2	9	< 1	< 1	48	< 2	50
4E 1+75N	217 298	1	< 0.2	< 2	< 2	11	< 1	< 1	36	< 2	46
4E 2+00N	217 298	1	< 0.2	< 2	< 2	12	< 1	< 1	82	< 2	62
4E 0+25S	217 298	< 1	< 0.2	< 2	< 2	26	< 1	< 1	8	< 2	44
4E 0+50S	217 298	8	< 0.2	< 2	< 2	12	< 1	< 1	60	< 2	90
4E 0+62.5S	217 298	< 1	< 0.2	< 2	< 2	13	< 1	< 1	10	< 2	256
4E 0+75S	217 298	< 1	< 0.2	< 2	< 2	15	< 1	< 1	4	< 2	100
4E 0+87.5S	217 298	< 1	< 0.2	< 2	< 2	18	< 1	< 1	8	< 2	114
4E 1+00S	217 298	2	< 0.2	< 2	< 2	30	< 1	< 1	28	< 2	50
4E 1+12.5S	217 298	< 1	< 0.2	4	< 2	14	< 1	< 1	86	< 2	40
4E 1.25S	217 298	< 1	< 0.2	< 2	< 2	14	< 1	< 1	42	< 2	222
4E 1+37.5S	217 298	19	< 0.2	< 2	< 2	14	< 1	< 1	12	< 2	194
4E 1+50S	217 298	6	< 0.2	< 2	< 2	13	< 1	< 1	16	< 2	122
4E 1+75S	217 298	1	0.2	< 2	< 2	16	< 1	< 1	56	< 2	64
4E 2+00S	217 298	< 1	< 0.2	< 2	< 2	15	1	< 1	18	< 2	152
9E 0+00	217 298	< 1	< 0.2	< 2	< 2	16	< 1	< 1	14	< 2	124
9E 0+25S	217 298	1	< 0.2	< 2	< 2	18	< 1	< 1	34	< 2	184
9E 0+50S	217 298	1	< 0.2	< 2	< 2	18	< 1	< 1	30	< 2	70
9E 0+75S	217 298	2	< 0.2	< 2	< 2	16	< 1	< 1	68	< 2	292
9E 1+00S	217 298	< 1	< 0.2	< 2	< 2	14	< 1	< 1	82	< 2	250
9E 1+25S	217 298	9	< 0.2	< 2	< 2	18	< 1	< 1	84	< 2	230
9E 1+50S	217 298	< 1	< 0.2	< 2	< 2	11	< 1	< 1	32	< 2	146
9E 1+62.5S	217 298	< 1	< 0.2	< 2	< 2	8	< 1	< 1	42	< 2	86
9E 1+75S	217 298	< 1	< 0.2	4	< 2	6	< 1	< 1	38	< 2	70
9E 1.87.5S	217 298	< 1	< 0.2	< 2	< 2	3	< 1	< 1	36	< 2	54
9E 2+00S	217 298	< 1	< 0.2	< 2	< 2	13	< 1	< 1	22	< 2	156
9E 2+12.5S	217 298	< 1	< 0.2	< 2	< 2	18	< 1	< 1	56	< 2	226
9E 2+25S	217 298	< 1	< 0.2	< 2	< 2	15	< 1	< 1	92	< 2	194
9E 2+37.5S	217 298	< 1	< 0.2	< 2	< 2	15	< 1	< 1	48	< 2	272

CERTIFICATION:



Chemex Labs Ltd.

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To: TROUP, W. R.

1365 CLARKSON RD. N.
 MISSISSAUGA, ON
 L5J 2W6

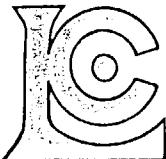
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 Comments: ATTN: BILL TROUP

Page Number :2
 Total Pages :2
 Certificate Date: 18-OCT-95
 Invoice No. :19530718
 P.O. Number :
 Account :NBW

CERTIFICATE OF ANALYSIS A9530718

SAMPLE	PREP CODE	Au NAA ppb	Ag ppm	As ppm	Bi ppm	Cu ppm	Hg ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
9E 2+50S	217	298	< 1	< 0.2	< 2	14	< 1	< 1	60	< 2	182
9E 2+62.5S	217	298	5	0.2	< 2	12	< 1	< 1	58	< 2	66
9E 2+75S	217	298	< 1	< 0.2	< 2	11	< 1	< 1	36	< 2	132
9E 2+87.5S	217	298	< 1	< 0.2	< 2	11	< 1	< 1	50	< 2	124
9E 3+00S	217	298	9	< 0.2	2	10	< 1	< 1	76	< 2	44
9E 3+12.5S	217	298	< 1	< 0.2	< 2	15	< 1	< 1	20	< 2	58
9E 3+25S	217	298	< 1	< 0.2	< 2	14	< 1	< 1	20	< 2	56
9E 3+42.5S	217	298	< 1	< 0.2	< 2	9	< 1	< 1	18	< 2	58
9E 3+50S	217	298	7	< 0.2	< 2	11	< 1	< 1	22	< 2	74
9E 3+75S	217	298	1	< 0.2	< 2	11	1	< 1	20	< 2	62
9E 4+00S	217	298	< 1	< 0.2	< 2	6	1	< 1	30	< 2	64
9E 4+25S	217	298	< 1	< 0.2	< 2	18	2	< 1	24	< 2	72
9E 4+50S	217	298	< 1	< 0.2	< 2	6	< 1	< 1	58	< 2	24
9E 4+75S	217	298	< 1	0.2	< 2	12	1	< 1	90	< 2	108
9E 5+00S	217	298	3	< 0.2	< 2	8	1	< 1	52	< 2	96

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: TROUP, W. R.

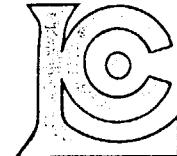
*
1365 CLARKSON RD. N.
MISSISSAUGA, ON
L5J 2W6

INVOICE NUMBER

I 9 5 3 3 1 2 1

BILLING INFORMATION	
Date:	10-NOV-95
Project:	
P.O. No.:	
Account:	NBW
Comments:	
Billing:	For analysis performed on Certificate A9533121
Terms:	Payment due on receipt of invoice 1.25% per month (15% per annum) charged on overdue accounts
Please Remit Payments to:	
CHEMEX LABS LTD. 212 Brooksbank Ave., North Vancouver, B.C. Canada V7J 2C1	

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
1	205 - Geochem ring to approx 150 mesh	2.50		
	226 - 0-3 Kg crush and split	2.60		
	3202 - Rock - save entire reject	0.50		
	ICP-32	7.00		
	983 - Au ppb FA+AA	9.75	22.35	22.35
				Total Cost \$ 22.35
(Reg# R100938885)				GST \$ 1.56
				TOTAL PAYABLE (CDN) \$ 23.91



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: TROUP, W. R.

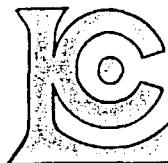
*
1365 CLARKSON RD. N.
MISSISSAUGA, ON
L5J 2W6

INVOICE NUMBER

I 9 5 3 3 1 2 1

BILLING INFORMATION	
Date:	10-NOV-95
Project:	
P.O. No.:	
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CHEMEX LABS LTD. 212 Brooksbank Ave. North Vancouver, B.C. Canada V7J 2C1	

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
1	205 - Geochem ring to approx 150 mesh	2.50		
	226 - 0-3 Kg crush and split	2.60		
	3202 - Rock - save entire reject	0.50		
	ICP-32	7.00		
	983 - Au ppb FA+AA	9.75	22.35	22.35
				Total Cost \$ 22.35
(Reg# R100938885)				GST \$ 1.56
				TOTAL PAYABLE (CDN) \$ 23.91



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 5175 Timberlea Blvd., Mississauga
 Ontario, Canada L4W 2S3
 PHONE: 905-624-2806 FAX: 905-624-6163

To: TROUP, W. R.

1365 CLARKSON RD. N.
 MISSISSAUGA, ON
 L5J 2W6

A9533121

Comments: ATTN: W.R. TROUP

CERTIFICATE

A9533121

(NBW)

Project:
P.O. #:

Samples submitted to our lab in Mississauga, ON.
This report was printed on 9-NOV-95.

SAMPLE PREPARATION

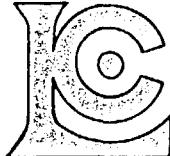
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	1	Geochem ring to approx 150 mesh
226	1	0-3 Kg crush and split
3202	1	Rock - save entire reject
229	1	ICP - AQ Digestion charge

* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	1	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
2118	1	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	200
2119	1	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	1	As ppm: 32 element, soil & rock	ICP-AES	2	10000
2121	1	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	1	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	1	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	1	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	1	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2126	1	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	1	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	1	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	1	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	1	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
2131	1	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
2132	1	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	1	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	1	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	1	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	1	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	1	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
2138	1	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	1	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	1	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
2141	1	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	1	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	1	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	1	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
2145	1	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	1	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	1	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	1	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	1	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2B06 FAX: 905-624-6163

To: TROUP, W. R.

1365 CLARKSON RD. N.
MISSISSAUGA, ON
L5J 2W6

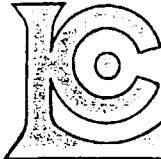
Page Number : 1-A
Total Pages : 1
Certificate Date: 09-NOV-95
Invoice No. : I9533121
P.O. Number :
Account : NBW

Project :
Comments: ATTN: W.R. TROUP

CERTIFICATE OF ANALYSIS A9533121

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
3085	205 226	< 5	< 0.2	0.26	18	120	< 0.5	< 2	0.71	< 0.5	10	124	11	1.89	< 10	< 1	0.11	40	0.22	465

CERTIFICATION:



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: TROUP, W. R.

1365 CLARKSON RD. N.
MISSISSAUGA, ON
L5J 2W6

Project:

Comments: ATTN: W.R. TROUP

Page Number :1-B
Total Pages :1
Certificate Date: 09-NOV-95
Invoice No. :19533121
P.O. Number :
Account :NBW

CERTIFICATE OF ANALYSIS

A9533121

SAMPLE	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
3085	205 226	< 1	0.06	27	370	118	< 2	3	46	< 0.01	< 10	< 10	22	< 10	210

CERTIFICATION:

APPENDIX -4

Drawings, Pseudo-sections IP Survey, Halcrow Grid

APPENDIX A-5

VLF - READINGS, PROFILES & FRAZER FILTERED DATA

APPENDIX A-6
COMPILED MAP, GEOLOGY, IP, VLF & GEOCHEM

Report of Work Conducted After Recording Claim

Mining Act

Transaction Number

W9660.01.539

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

2.16896

- Instructions:**
- Please type or print and submit in duplicate.
 - Refer to the Mining Act and Regulations for Recorder.
 - A separate copy of this form must be completed.
 - Technical reports and maps must accompany this form.
 - A sketch, showing the claims the work is being conducted on, must be included.



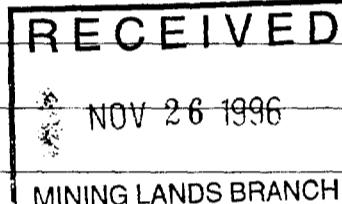
41015SW0054 2.16896 HALCROW

900

Recorded Holder(s)		Client No.
ALCHIMEX LTD.		101-512
Address		Telephone No.
1365 CLARKSON RD N., MISSISSAUGA ONT.		(905) 823-2881
Mining Division	Township/Area	M or G Plan No.
PORCUPINE	HALCROW Twp	6-889
Dates Work Performed	From: June 5/95 To: Nov 15/1995	

Work Performed (Check One Work Group Only)

Work Group	Type
<input checked="" type="checkbox"/> Geotechnical Survey	VLF + I.P. Survey + Human Geochemistry
Physical Work, Including Drilling	
Rehabilitation	
Other Authorized Work	
Assays	
Assignment from Reserve	



NOV 26 1996

MINING LANDS BRANCH

Total Assessment Work Claimed on the Attached Statement of Costs \$ **# 35,031.94**

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

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

Name	Address
William Troup & Barry Otten	1365 CLARKSON RD N. MISSISSAUGA.
HARRY CHRIDIE /ltt Rose	GEOGRAPHICS

(attach a schedule if necessary)

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

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	Date	Recorded Holder or Agent (Signature)
	SEPT 24/96	William R. Troup

Certification of Work Report

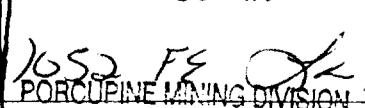
I certify that I have a personal knowledge of the facts set forth in this Work report, having performed the work or witnessed same during and/or after its completion and annexed report is true.		
Name and Address of Person Certifying		
William R. Troup // 1365 CLARKSON RD N. MISSISSAUGA ONT		
Telephone No.	Date	Certified By (Signature)
(905) 823-2881	SEPT 24/96	William R. Troup

For Office Use Only

Total Value Cr. Recorded	Date Recorded	Mining Recorder	RECEIVED
\$35,031			
Deemed Approval Date	Date Approved		
DEC. 29, 1996			
Date Notice for Amendments Sent			



SEP 30 1996



Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units
	1150462	16
	1150465	2
	1150466	1
	1150467	1
	1150468	2
	1150469	1
	1205434	8
	1205435	2
	1150474	3

Value of Assessment Work Done on this Claim	Value Applied to this Claim	Value Assigned from this Claim
\$ 23,490.55	\$ 10,806.00	\$ 4,459.21
\$ 750.00	\$ 1,600.00	\$ 800.00
\$ 1,425.00	\$ 800.00	\$ 625.00
\$ 1,600.00	\$ 800.00	\$ 625.00
—	—	—
\$ 3,125.00	\$ 6,400.00	\$ 4,641.21
\$ 6,241.21	\$ 1,600.00	—
\$ 2,400.00	—	—

Value Assigned from this Claim	Value Reserve Work to be Claimed at a Future Date
\$ 8,225.94	\$ 11,219.44
—	—
—	—
RECEIVED NOV 26 1996 MINING LANDS BRANCH	

Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to prioritize the deletion of credits. Please mark (✓) one of the following:

1. Credits are to be cut back starting with the claim listed last, working backwards. *Cut Back From Reserve first.*
2. Credits are to be cut back equally over all claims contained in this report of work.
3. Credits are to be cut back as prioritized on the attached appendix.

In the event that you have not specified your choice of priority, option one will be implemented.

Note 1: Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mining claims.

Note 2: If work has been performed on patented or leased land, please complete the following:

I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed.	Signature	Date
	<i>William R. Tracy</i>	Sept



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

1419660.00539

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 forme 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 <i>W. TROUT</i> & Main-d'œuvre <i>B. TRAY</i>	\$ 6,000.00	
	Field <i>TRAVEL TIME</i> Supervision Supervision sur le terrain	\$ 6,000.00	
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert- conseil	Type 1-P Geophysical Survey	\$ 10,612.13	
	Contract Drafting	\$ 2,524.75	
	Assaying & Report	\$ 3,054.45	
Supplies Used Fournitures utilisées	Type <i>Consumables</i>	\$ 99.32	
Equipment Rental Location de matériel	Type		
Total Direct Costs Total des coûts directs		29,690.65	

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 <i>(W. TROUT)</i> TRUCK to field.	\$ 900	
Food and Lodging Nourriture et hébergement			\$ 900
Mobilization and Demobilization Mobilisation et démobilisation	<i>TRUCK & 2 men 3 days Travel time Toronto to Foley River</i>	1,500	1,500
Sub Total of Indirect Costs Total partiel des coûts indirects			5,341.29
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)			5,341.29
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)		35,031.94

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 all or part of the assessment work submitted.

RECEIVED NOV 26 1996

Filing Discounts

MINING LANDS BRANCH

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.

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

Total Value of Assessment Credit	Total Assessment Claimed
x 0.50 =	

Remises pour dépôt

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

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

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 *President / ALCANEX LTD.* I am authorized
(Recorded Holder, Agent, Position in Company)

to make this certification

Attestation de l'état des coûts

J'atteste par la présente :

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

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

à faire cette attestation.

Signature	Date
<i>William O'Toole</i>	<i>Sep 24 / 96</i>

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

December 24, 1996

Gary White
Mining Recorder
60 Wilson Avenue, 1st Floor
Timmins, ON
P4N 2S7



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

Telephone: (705) 670-5853
Fax: (705) 670-5863

Dear Sir or Madam:

Submission Number: 2.16896

Subject: Transaction Number(s): W9660.00539

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.

NOTE: This correspondence may affect the status of your mining lands. Please contact the Mining Recorder to determine the available options and the status of your claims.

If you have any questions regarding this correspondence, please contact Lucille Jerome at (705)670-5858.

Yours sincerely,

A handwritten signature in black ink, appearing to read "Ron C. Gashinski".

ORIGINAL SIGNED BY
Ron C. Gashinski
Senior Manager, Mining Lands Section
Mines and Minerals Division

Work Report Assessment Results

Submission Number: 2.16896

Date Correspondence Sent: December 24, 1996

Assessor: Lucille Jerome

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9660.00539	1150962	HALCROW	Approval After Notice	December 23, 1996

Section:

13 Geochemical GCHEM

14 Geophysical IP

14 Geophysical VLF

The following costs is approved for your submission:

Linecutting	\$ 3250
Labour for sampling	2500
VLF	3926
IP	11174
Supervision	4000
Samples	3055
Total costs allowable	\$27,905

Correspondence to:

Mining Recorder
Timmins, ON

Resident Geologist
Timmins, ON

Assessment Files Library
Sudbury, ON

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

ALCANEX LTD.
MISSISSAUGA, ONTARIO

Distribution of Assessment Work Credit

The following credit distribution reflects the value of assessment work performed on the mining land(s). Please contact the Mining Recorder to determine if this affects the status of your claims.

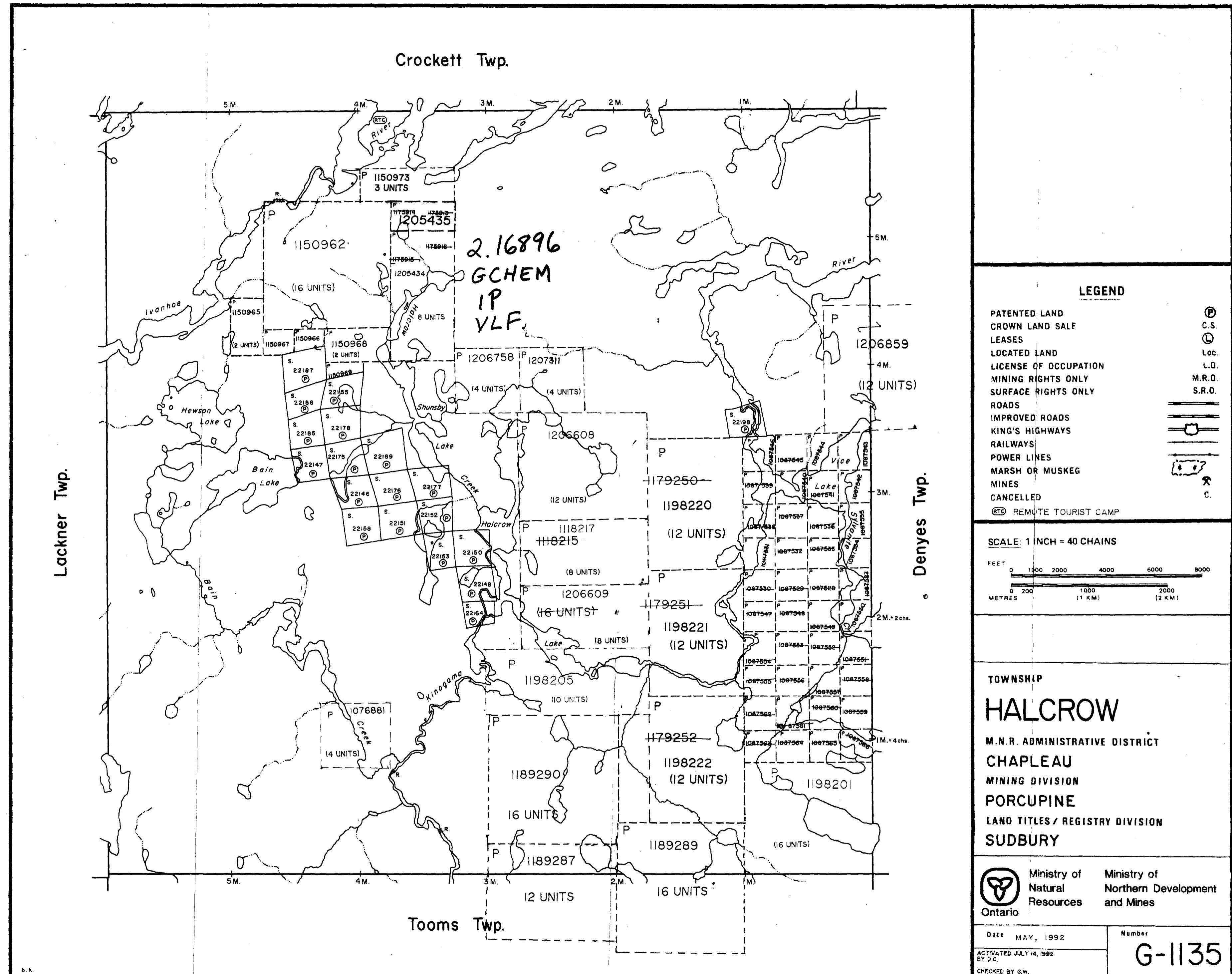
Date: December 24, 1996

Submission Number: 2.16896

Transaction Number: W9660.00539

<u>Claim Number</u>	<u>Value Of Work Performed</u>
1150962	18,700.00
1150965	565.00
1150967	1,150.00
1205434	2,490.00
1205435	5,000.00
Total: \$	27,905.00

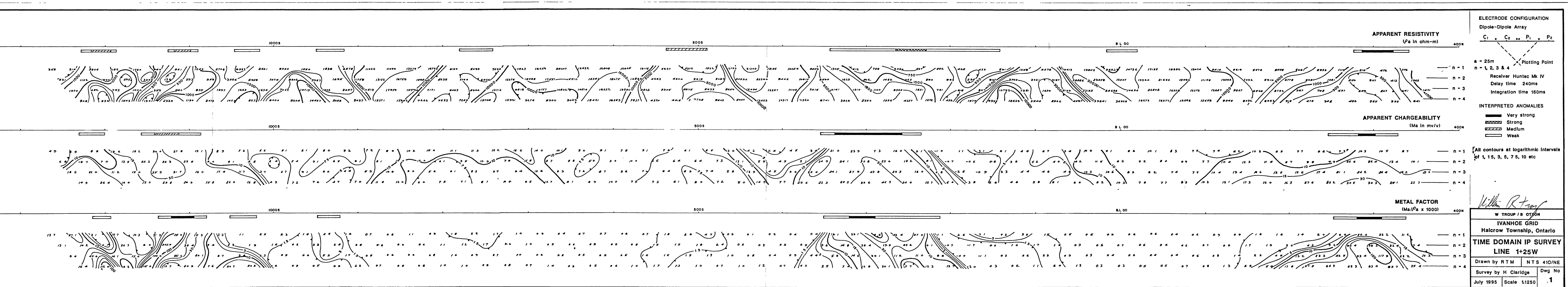
HALCROW TWP



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.

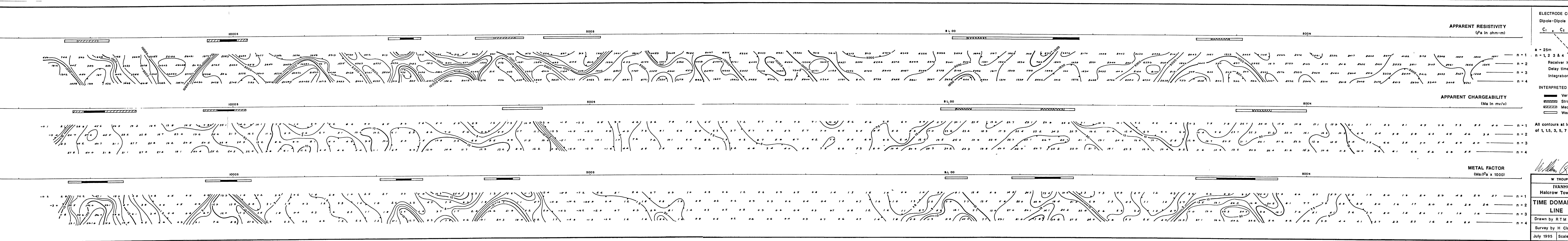


41015SW0054 2.16896 HALCROW



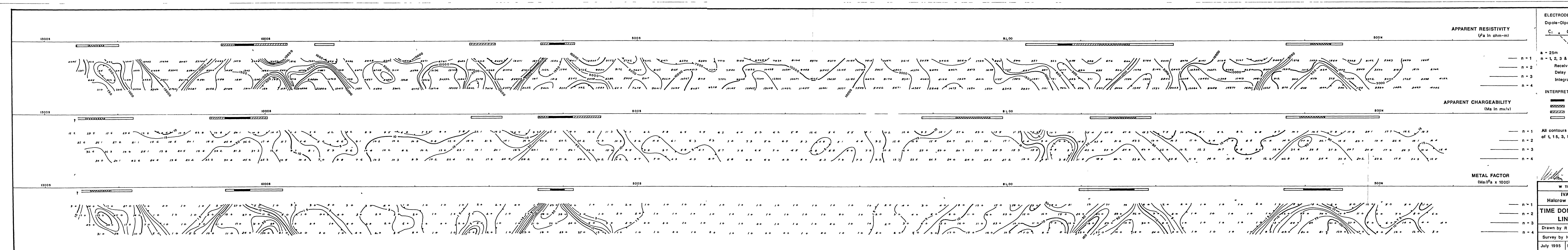
210

2.16896



2.16896

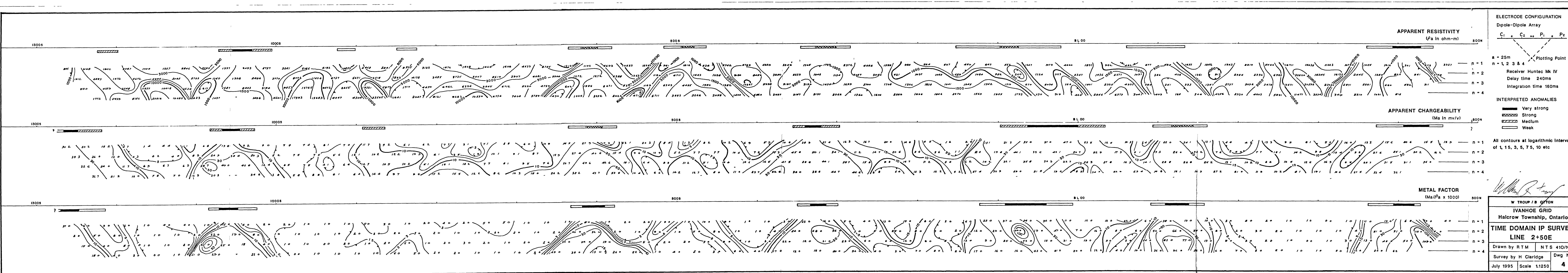




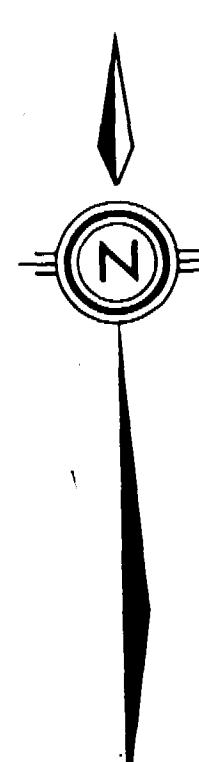
4101SSW0034 2 1898 HALCROW

230

2.16896



41015SW0054 2 16896 HALCROW



Scale 1cm = 50metres

2.16896

W. Troup / B. Otton

IVANHOE GRID		
Halcrow Township, Ontario		
VLF EM Survey		
IN-PHASE & OUT-OF PHASE		
READINGS		
Prep. by W. Troup	Drawn by R.T.M.	Dwg. No.
July 1995	Scale 1:5000	N.T.S. 41 O/NE

5

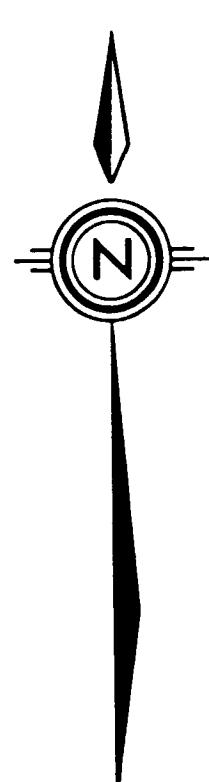


41015SW0054 2.16896 HALCROW



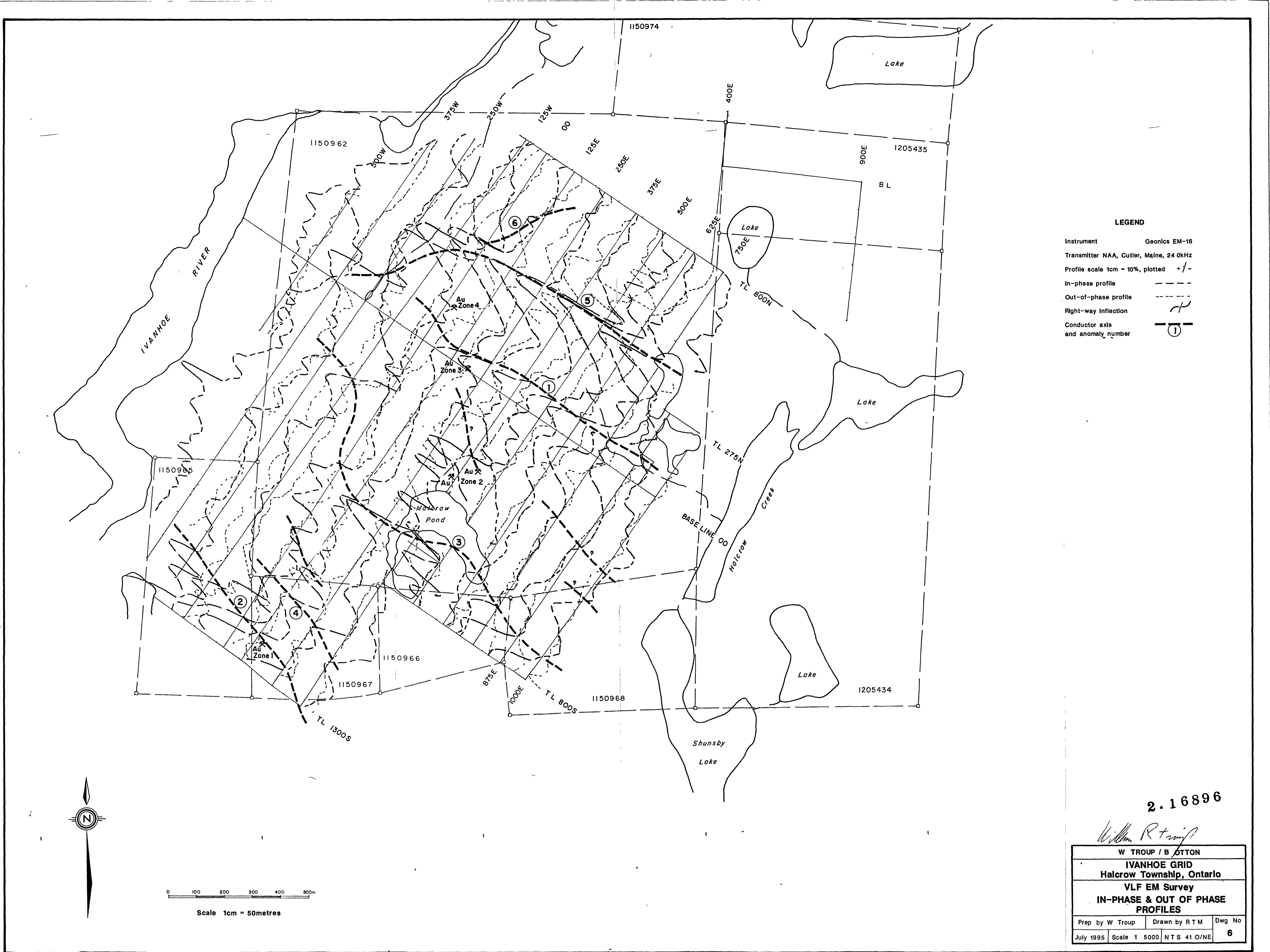
2.16896

W TROUP / BOTTON		
IVANHOE GRID Halcrow Township, Ontario		
VLF EM Survey		
FILTERED IN-PHASE CONTOURS		
Prep by W Troup	Drawn by R TM	Dwg No
July 1995	Scale 1 5000 NTS 41 O/NE	7

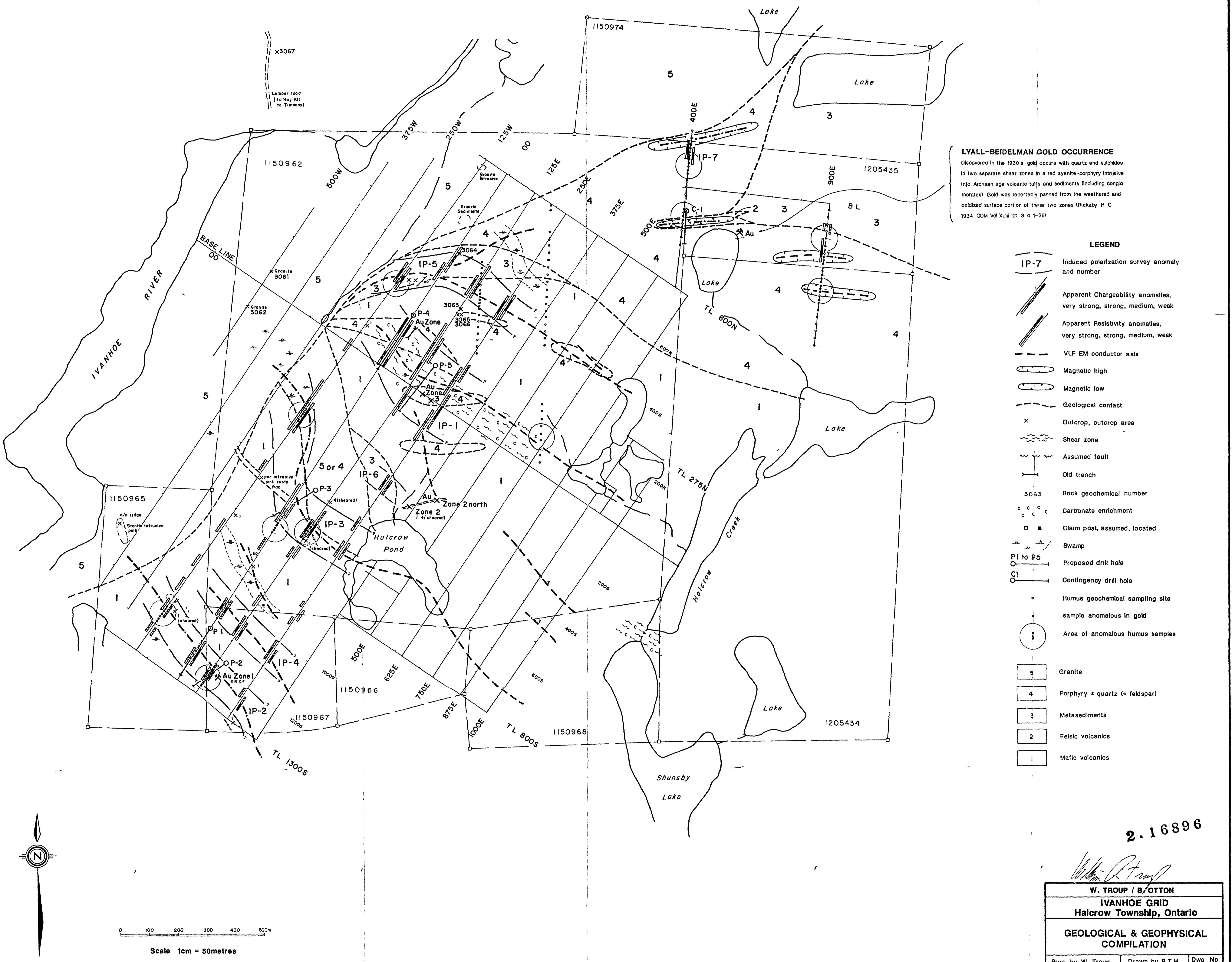


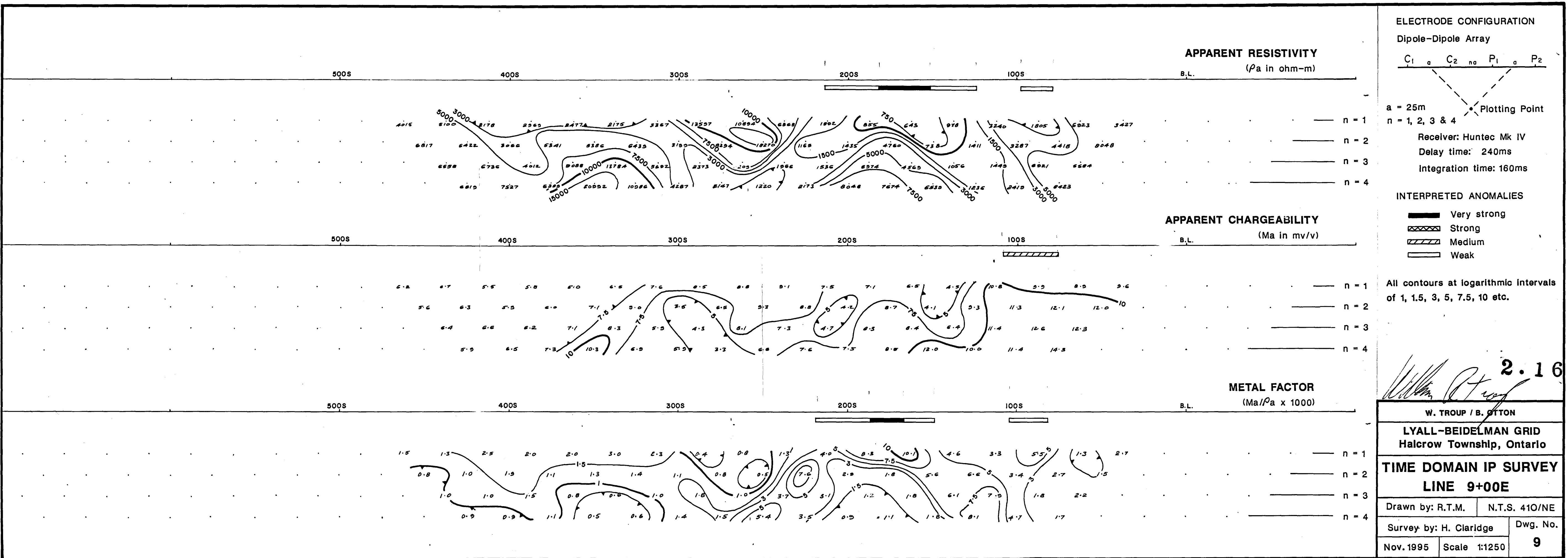
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Scale 1cm = 50metres



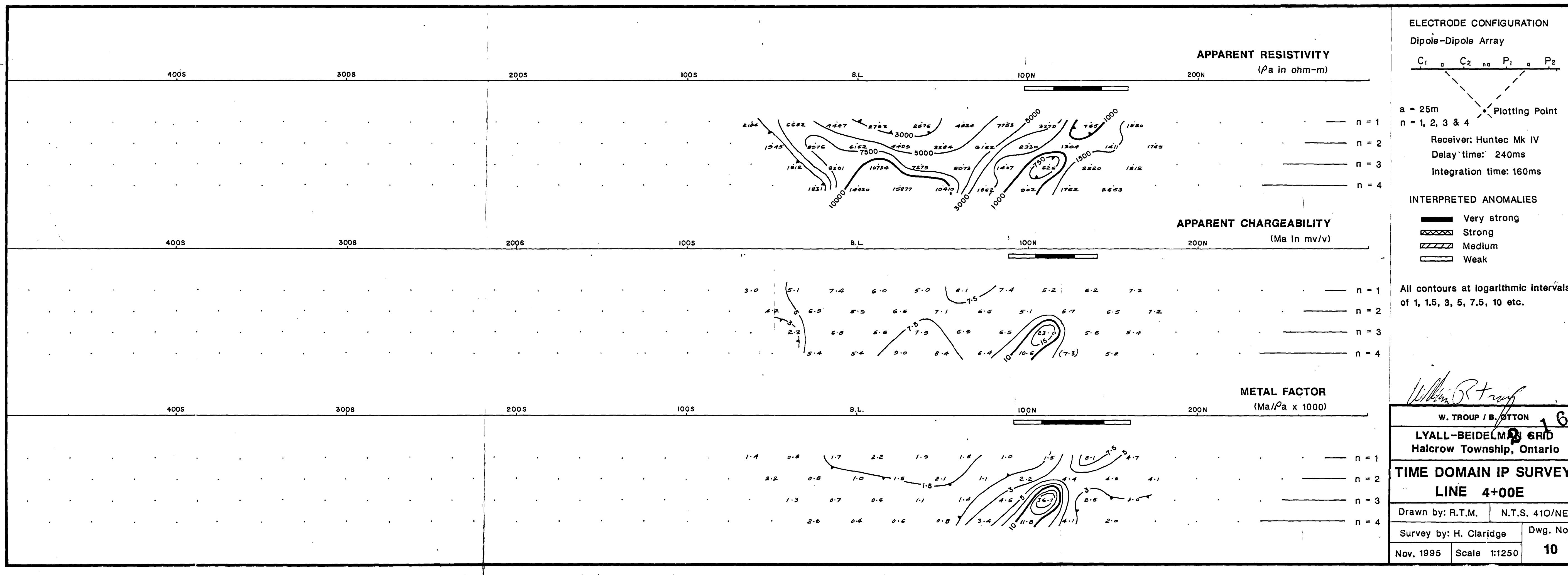


4TO1SSW0054 2 18896 HALCROW

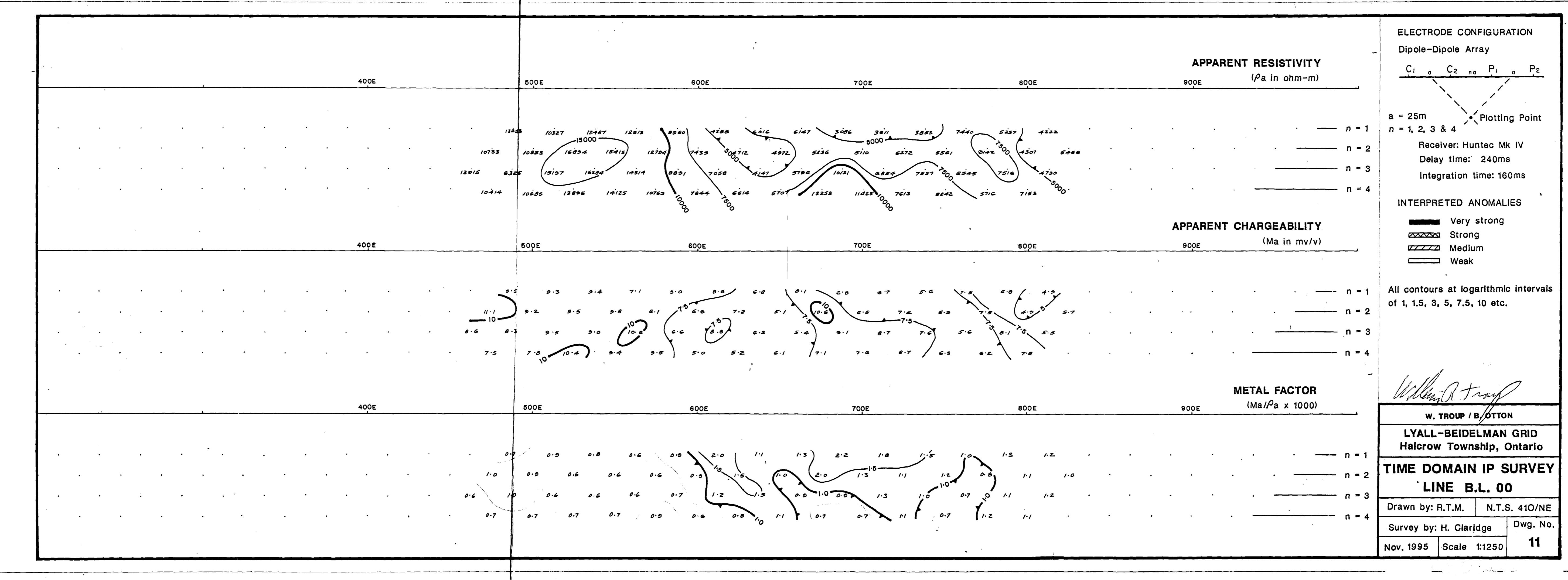




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41015SW0054 2.16896 HALCROW



4101SSW0054 2.16996 HALCROW

