



42A08NW2005 2.18462 COOK

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2.18462

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RECEIVED  
MAY 25 1998  
GEOSCIENCE ASSESSMENT  
OFFICE



42A08NW2005 2.18462 COOK

010C

## **Diamond drill 1998 WILZEL RES Limited COOK TWP Property.**

### **GENERAL**

The following report on the 1998 diamond drilling in Cook Twp was prepared by Ralph Huggins for Wilzel Resources Limited. An Induced Polarization anomaly and magnetic high, to test for Mineralization, was drilled in April 1998. There were two holes drilled for a total length of 1,277 feet BQ core, was drilled by Heath and Sherwood drillers of Kirkland Lake

### **PROPERTY**

The Cook property consists of thirty-four contiguous mining units claims with 69 held by Wilzel Resources Limited numbered:

L.799711, L.799712, L.799714, L.799715 – L.799718 to 799730 inclusive, L.858880 - 858983 inclusive, L.1217719, L. 1217720 (2 units), L.1222585 (2 units), L. 1225064(4 units), L.1221939(8 units), L.1211433, L.1222586

### **LOCATION**

The property is located in northwestern Cook Township, District of Cochrane, Larder Lake Mining Division, 16 km. (10 miles) southeast of Matheson and 3 km. (2 miles) southeast of Holtyre, the location of the former-gold-producing Ross Mine.

### **ACCESS**

The northern portion of the property can be reached by a gravel road that leads due south from Holtyre and then by foot for 1 km. to the northern baseline, which follows an old winter road on the Cook-Guibord township boundary.

Access to the southern portion can be gained by the "Lava Mountain Lodge road running east from Ramore and then north and east along gravel roads to the west end of the south baseline.

## **REGIONAL GEOLOGY**

The property is located in the central portion of the Abitibi Greenstone Belt, characterized by late Archean metavolcanic, metasedimentary and plutonic rocks and by some Proterozoic sedimentary rocks and diabases.

Cook Township is in the western end of the north limb of the east plunging Blake River Synclinorium (Jensen, 1985, 1989). These are composed of thick successions of tholeiitic (Kinojevis Group) and overlying calc-alkalic (Blake River Group) metavolcanics, which form a south dipping homocline.

The Kinojevis Group consists of alternating magnesium-rich and iron-rich tholeiitic basalts, with minor amounts of tholeiitic andesite, dacite and rhyolite flows and tuffs. Thin interflow units of argillite and chert may be present locally.

The Blake River Group is characterized by calc-alkalic andesite and basalt as well as calc-alkalic dacite and rhyolite. It is cut by numerous gabbro, quartz gabbro and diorite stocks and sills.

## **STRUCTURAL GEOLOGY**

The main structural feature in the area is the well known Destor-Porcupine Fault Zone (DPFZ) which passes in a northwest direction about 1 km north of the property. South of the fault zone, the Kinojevis Group tholeiites dip steeply and face south, but show little or no deformation. Some minor alteration and shearing is located along flow contacts.

A major splay from the DPFZ, the Ross Fault, passes in a northwesterly direction through the property.

## **MINERALIZATION**

Gold and silver Mineralization hosted by quartz and quartz-carbonate veins is prevalent in the area. Most notable is the Ross Mine, which lies about 3 km. northwest of the property.

The deposit is found within altered and sheared mafic lavas (Kinojevis Group) (Troop, 1986). The ore shoots and veins structurally controlled by northwest-south-east trending shear zones and faults (Ross Fault). Iron carbonate, sericite and hematite alteration are important factors in gold Mineralization.

Gold mineralization has been also identified in the Kinojevis Group with pyrite and base metal mineralization in steeply dipping southeast striking quartz-carbonate veins and lenses contained in a carbonized shear zone (Bourkes Mine, Benoit Tp.). At the Canadian Arrow Mine, in southwestern Hislop Tp., gold mineralization is associated with late alteration and quartz vein development on the edge of monzonite stock that cuts strongly fractured Kinojevis Group volcanics.

## **PROPERTY GEOLOGY**

The geology of the Cook Township is described by Bennett (1988).

"The property is underlain by Kinojevis Group iron-rich and iron-poor tholeiitic basalts and a dacitic crystal tuff that have been cut by a north-trending Matachewan type diabase dyke. The Ross Mine Fault is marked by an electromagnetic cross over anomaly and a sharp disruption of the magnetic trends. At least three other parallel structures are indicated.

Stripping, trenching and blasting in the southern part of the property exposed a 4 ft. wide, east-west striking quartz-carbonate vein within a 10 ft wide brecciated and sheared zone. This structure was exposed for more than 600 feet in strike length, and the vein showed minor pyrite, galena and specularite, with rare chalcopyrite. Assay results returned only background to slightly anomalous results. A large rusty float sample found approximately 600 ft east of this showing area returned an assay of 0.20 troy oz/ton gold and 0.61 troy oz/ton silver."

## **HISTORY**

A search of the assessment files at the Kirkland Lake Resident Geologist Office show that the only previous work was by Wilzel Resources This includes magnetometer, radiometric, VLF-EM and geological surveys along with some minor trenching done in 1985-86, followed by a 1,300' diamond drill hole in 1987 to test the Ross Mine Fault and a hematized and pyritic tuff horizon. In 1987, a reverse circulation drill program was undertaken by Overburden Exploration Services Ltd. to aid in identifying potential gold mineralization.

In 1997 An exploration program consisting of linecutting and an Induced Polarization (IP) (dipole-dipole) survey was carried between May 1, 1997 and May 19, 1997. A total of 15.74 km of line was cut by B. H. Madill Geotechnical Services of Kirkland Lake and 12.275 km of IP was done by Belanger Geophysique Ltee of Rouyn-Noranda, Quebec.

## **1998 WORK PROGRAM**

Following up on the recommendation of the 1997 field program, two holes totaling 1,277 ft of diamond drill was done to test the IP and magnetic anomalies.

Two holes were drilled the first WZ98-1 to 769 feet intersected the IP anomaly and magnetic high. The second WZ98-2 to 508 feet, also intersected the IP and ended within the magnetic high.

## **RESULTS**

Two zones as indicated from the Induced Polarization survey of 97 were intersected, they were caused by 2 to 5% disseminated sulfide consisting of chalcopyrite and pyrite. A 30 ft qtz-carbonate vein was also intersected with chalcopyrite on the edges.

## **RECOMMENDATIONS**

Additional whole rock on selected sections of the drill core is recommended.  
Downhole pulse EM.

## **DISCUSSION**

A suggested sequence of events at the Wilzel Property could be similar to another deposit in the area namely the McDermott deposit.

This deposit begins with the development of the McDermott Shear Zone, a splay off the DPFZ, which provided a deep, hydrothermal fluid flow and pervasive hematization within the shear zone.

Emplacement of dioritic intrusions into this deformation zone was accompanied by several stages of ductile deformation. Early alteration may have raised the competency of the rock promoting brittle fracture. Breccias developed subsequently, perhaps as a result of hydraulic fracturing in response to elevated fluid pressures.

The main phase of silicification was accompanied by precipitation of pyrite I. Pyrite II followed, with continuing silicification and initial gold precipitation; gold was trapped as inclusions in poikiloblastic pyrite.

As silicification waned, carbonization continued as the predominant alteration type. Finally, late pink and white carbonate veinlets and quartz-albite veinlets cut the deposit and its altered host rocks. A similar sequence occur in the south west portion of the Wilzel property.

Quartz veins are of negligible importance and are not auriferous. The deposit occurs primarily within deformed and altered mafic metavolcanic and intrusive rocks.

Geophysical responses at the McDermott deposit are inconclusive due to the weakly disseminated nature of the pyrite with which much of the gold is associated.

## **GEOLOGICAL SETTING**

The McDermott gold deposit is located in the Abitibi Greenstone belt (Archean age) in the Superior Province of the Canadian Shield is similar to Wilzel Cook Twp property.

The metavolcanic rocks which regionally host the deposit are stratigraphically part of the lower Kinojevis Group succession of iron and magnesium tholeiites (Jensen and Langford, 1983; Jensen, 1982, 1985). Primary structures in these rocks are generally well preserved. Pillow structures, vesicles and varioles are easily recognizable. These tholeiites, together with interflow metasediments, are thought to account for most of the volcanic succession at the McDermott deposit, near the Barrick shaft.

Metasedimentary rocks include siltstones, often carbonaceous and schistose, and minor chert. The remaining percentage of the rock is composed of dioritic intrusions up to 50 m wide. These dikes obliquely cut across stratigraphy and are themselves cut by shears within the McDermott Deformation Zone.

Volcanic and sedimentary strata of the Stoughton-Roquemaure Group (Jensen and Langford, 1983) lie north of the Kinojevis Group rocks along an east trending contact. The Stoughton-Roquemaure succession contains some komatiitic components.

Metamorphic grade is lower greenschist facies in the vicinity of the deposit (Jensen, 1985). Regional foliation is weakly developed parallel to stratigraphy and, in the volcanic rocks, is defined by preferred orientation of chlorite.

The important, east trending Destor-Porcupine Fault Zone (DPFZ), locally about 500 m wide, lies about 1 km north of the American Barrick shaft and cuts strata of the Stoughton-Roquemaure Group. This major crustal dislocation has a known strike length of 300 km, from the Timmins area in the west to Destor in western Quebec.

Numerous gold deposits are associated with this zone and its related structures. Foremost among these are the deposits of the Timmins-Porcupine camp (e.g. McIntyre Mine, Griffis, 1962; Hollinger Mine, Ferguson et al., 1968) about 150 km to the west. Smaller deposits, closer to the McDermott site, on structures related to the DPFZ, include the Ross Mine at Holtyre (Akande, 1982; Troop, 1985), the St. Andrew Goldfield's property (Whittaker and Malczak, 1984; Malczak, 1985) and the former Croesus Mine (Satterly, 1952).

The Beattie Mine at Duparquet, Quebec (40 km east of the McDermott deposit), was also an important gold producer as is the Ivan Vezina mine at Destor. The main mineralized zone of the McDermott deposit occurs within the McDermott Deformation Zone, which strikes generally sub-parallel to stratigraphy ( $075^{\circ}$ ) at this locality although in detail the zone cuts the contact between carbonaceous sediment and tholeiitic basalt. At surface the zone is sub-conformable with stratigraphy; with increasing depth, however, the dips of the deformation zone and associated faults appear to flatten and cut across stratigraphy.

The McDermott Deformation Zone is believed to be a splay off the DPFZ.

The McDermott gold deposit exemplifies a style of gold mineralization not commonly exploited in the Canadian Shield. The lack of stratigraphic control and the absence of overt participation by porphyry-type igneous intrusions leaves the McDermott Deformation Zone as the outstanding feature which appears to control the location of the deposit. Exploration by geophysical methods is hampered by the lack of responses from the McDermott Zone and cryptic style of gold mineralization, associated with structurally controlled areas of alteration, may await discovery in the Canadian Shield.

The above characteristics make an interesting comparison between The McDermott deposit and the Wilzel Cook Twp property.



**CONCLUSIONS AND RECOMMENDATIONS**

The IP anomalies and magnetic high drilled, intersected alteration and mineralization associated with an east -west Fault or flow contacts between the iron-rich and magnesium-rich Kincjevis basalts.

The extension program of diamond drilling to test these anomalies is recommended. Drill targets should also include testing the flow contacts. An exploration program designed to complete program is expected to cost \$230,000 as follows

Diamond Drilling (5,000 feet)	\$150,000
Sample prep, handling, assays, etc.	\$ 30,000
Accommodation, Board, Rentals, Field Expenses	\$ 20,000
Consulting, Layout, Supervision, Personnel, Reports	\$ 30,000
	<hr/>
TOTAL	\$230,000



**Ralph Huggins Bsc FGAC**  
**May 22, 1998**

## REFERENCES

Bennett, R.A.

1988: Report on Exploration for Cook Property, *Wilzel* private company report.

Jensen, L.S., and Langford, F.F.

1985: Geology and Petrogenesis of the Archean Abitibi Belt in the Kirkland Lake Area, Ontario; Ontario Geological Survey, Miscellaneous Paper 123, 130p., Accompanied by Maps P.2434 and P.2435, scale 1:63 360 or 1 inch to 1 mile and sheet of microfiche.

Jensen, L.S.

1989: Precambrian Geology of the Ramore Area, Districts of Cochrane and Timiskaming; Ontario Geological Survey, Map P.3131, Geological Series-Preliminary Map, Scale 1:63 360 or 1 inch to 1 mile. Geology 1974.

Richard, J.

1989: Report on Reverse Circulation Drill Program, Cook Property, *Wilzel* private company report.

Troop, D.G.

1986: Multiple Orebody Types and Vein Morphologies, Ross Mine; District of Cochrane; p.413-420 in Summary of Field Work and Other Activities 1986, by the Ontario Geological Survey, edited by P.C. Thurston, Owen L. White, R.B. Barlow, M.E. Cherry and A.C. Colvine, Ontario Geological Survey, Miscellaneous Paper 132, 435p., Accompanied by 1 Chart.

A.W. Workman

1989: Geology of the McDermott Gold Deposit. Gold 86, Proceedings Volume, p184-190.

Notes: Core stored at Wilzel office  
in Matheson, Ont.  
R. Ken Germundson

**WILZEL RESOURCES LIMITED**

ONTARIO 1998 DRILL PROGRAMME

NTS 42A/8

HOLE No. **WZ98-1**

COOK TOWNSHIP

CLAIM: 1217720: 1580'S (480m); 800'W (24 (246)

Geolog. **R. Ken Germundson**

START: April 19, 1998

LOCATION: **20+75S at 1+90E (metric)**

AZIMUTH: 180 degrees

DIP: **45 degrees**

FINISH: **APRIL 23, 98**

DEPTH: 768' (234m)

HOLE NUMBER: **WZ98-1**

TARGET: Chargeability, resistivity and airborne magnetometer. Geological mapping.

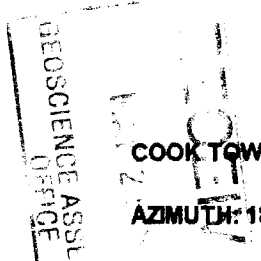
DATE:

FOOTAGE		LITHOLOGICAL DESCRIPTION	MINERALIZATION	FROM	TO	ALTERATION	FROM	TO	SAMPLE No.	SAMPLE INTERVAL			ASSAY Au g/t	ASSAY Ag g/t	ASSAY Cu %	ASSAY Pb %	ASSAY Zn %
FROM	TO									FROM	TO	WIDTH					
0.00	11.00	Casing															
11.00	24.50	Iron tholeiite, dark grey-green, mainly massive. Strongly magnetic. Speckled with chlorite. Fractures to 0.40 inch filled with calcite and at 50 to 90 degrees to the core axis.	Minor finely divided pyrite as patches and fracture fillings.	11.5	24.5	Fault with breccia fragments and medium green at 45 to 50 degrees to the core axis	16.80	17.00									
24.50	28.60	Tholeiite, dark green-grey, weakly to non-magnetic; 0.10 foot of calcite at 26.50 feet intersecting core axis at 60 degrees.	Minor patches of finely divided pyrite.	24.5	28.6	Pronounced white speckling (salt grain size).	24.50	28.60									
28.60	87.90	Iron tholeiite, dark green-grey, strongly magnetic, locally with speckled chlorite. 51.0-52.0: Non-magnetic, contact with 1.0 inch calcite v. at 90 degrees.	Patches of pyrite (some with calcite) to 2%			Hematite in shearing at 30 degrees to c/a	81.00	81.50									
		62.5-85.0: blebs of calcite to 0.50 inch disseminated															
		86.5-87.9: Mottled black to dark green-grey with brecciation.															
97.90	131.20	Hyaloclastite, pillows and flow breccia. Fragments and pillows are strongly magnetic. 15 to 20% variolitic texture. Contacts-U at 30 and L at 75 degrees to c/a.	Pink quartz patches Pyrite to 1 or 2% throughout	94.5	96.5	Medium to light green in selvages and an around frags. 117.3-118.1: Quartz and epidote			156001 156002 156003	94.5 117.3 130.6	96.5 118.1 131.0	2.0 0.80 0.60					
		124.0-126.5: massive				Hematitic tinge	107.00	125.00									
131.20	177.50	Iron tholeiite, dark green-grey, strongly magnetic except for 164.5 to 169.0 (with chlorite grains to 1/8 inch. 168.7-173.0: disseminated calcite blebs.	5% pyrite in calcite; sheared at 40 degrees to core axis.	146.3	146.7	Calcite and epidote	152.0 173.0	177.00	156004	146.30	146.70	0.40					
		173.-177.3: brecciated sections as per hyaloclastite and with reduced magnetism. Top at 40 degrees to core axis.															





ONTARIO 1998 DRILL PROGRAMME



NTS 42A/8

**WILZEL RESOURCES LIMITED**

*R. Ken Germundson*  
April 30/98

HOLE No. WZ98-2

COOK TOWNSHIP

CLAIM: 884192=340'S (103m)  
1175'W (358m) of #1 post

GEOLOGIST: R. Ken Germundson

START: April 24, 1998

FINISH: April 25, 1998

LOCATION: 2100S at 375E (metric grid)

AZIMUTH: 180 degrees

DIP: -45 degrees

DEPTH: 508 FEET (154.0 METRES)

HOLE NUMBER: WZ98-2

TARGET: Chargeability and resistivity. Step out along strike from WZ98-1, which intersected quartz-carbonate vein with chalcopyrite.

DATE: April 27/98

FOOTAGE		LITHOLOGICAL DESCRIPTION	MINERALIZATION	FROM		TO		ALTERATION	FROM		TO		SAMPLE No.	SAMPLE INTERVAL			ASSAY Au g/t	ASSAY Ag g/t	ASSAY Cu ppm	ASSAY Pb ppm	ASSAY Zn ppm
FROM	TO			FROM	TO	FROM	TO		FROM	TO	WIDTH										
0.00	10.00	Casing.																			
4.00	20.50	Iron tholeiite, dark grey, fine-grained; pillowed and locally with calcite filled vesicles. Siliceous sections. magnetic	Quartz and qtz-carbonate stringers. Pyrite in patches-1%																		
20.50	38.00	Flow breccia, hyaloclastite, pillows with variolitic texture; magnetic, siliceous fragments.	Patches of pyrite to 0.30 inches.																		
38.00	41.50	Felsic siliceous tuff, medium to light grey, hard non-magnetic																			
41.50	44.00	Volcanic flow, medium grey, weakly to non-magnetic. Broken area healed with calcite.	Scattered stringers of calcite. Pyrite as patches																		
44.00	91.50	Pillowed and massive iron tholeiite, dark grey, fine- to medium-grained. 53.0 to 58.0: vesicles filled with calcite and chlorite. 88.0-87.0: breccia. Magnetic.	Scattered carbonate filled fracts. Pyrite as patches to 1%					Epidote on selvages and fracts. Hematite on fractures.	67.0	71.0	76.0										
91.50	124.50	Pillows, breccias and massive flows, interfingering medium to dark grey. Non-magnetic. Top contact is 50 degrees to the core axis.	Pyrite as disseminated patches. Calcite stringers.																		
124.50	235.00	Iron tholeiite, dark grey, medium-grained, massive to pillowed, magnetic throughout except the section near upper contact.	Calcite str. 30 to 90 degree c/a. Few quartz stringers. Pyrite patches to 1%					Hematite on fractures.	221.00	222.00											
235.00	259.50	Flow and/or tuff, dark grey to black, aphanitic to fine-grained; can be siliceous with rare bedding or banding. Moderately magnetic. 259.0: Fault gouge. Top at 30 deg. Locally brecciated.	Rare mineralization									158033	256.00	260.00	4.00						

158033  
 256.00  
 260.00  
 4.00



259.50	266.50	Mainly quartz-carbonate vein with numerous fragments of wall rock. White. Contact appears to be at 50 degrees to the core axis.	Minor chalcopyrite.					156034	260.00	264.00	4.00						
								156035	264.00	266.50	2.50						
266.50	279.00	Tuff/flow with quartz-carbonate veins and stringers. Non-magnetic	Minor chalcopyrite. Up to 3% patches of pyrite					156036	266.50	270.50	4.00						
								156037	270.50	275.00	4.50						
								156038	275.00	280.00	5.00						
279.00	354.00	Tholeiite, fine- to medium-grained, dark grey, weakly to non-magnetic except strong locally. Slickensides common. Broken near contact with vein. 294.5 to 295.0: breccia; 296.0 to 297.0: fault at 40 to 50 to core axis. 307.0 to 308.0 & 312.0: rusty weathering. 354.0: 45 degrees to core axis.	0.3" stringer of pyrite.	354				Epidote in quartz-carbonate veins to 3.5 inches. Two generations of quartz. Minor hematite.	318.00	346.50							
354.00	373.00	Pillows. Variolitic texture well developed. Curved, thin banding in some pillows. Siliceous sections.															
373.00	428.00	Massive flows and pillowed volcanics. Varying medium and dark grey. 397.0: Banding at 50 degrees to core axis. 418.0 to 428.0: increasing number of pillows.	Qtz.-carb. stringers					Pale green intermittent epidote.									
428.00	471.00	Pillowed volcanics, strongly variolitic. Weak to non-mag. Locally brecciated especially below 431.0 feet. Siliceous sections.						Increasing epidotization.									
471.00	485.00	Iron tholeiit, massive, strongly magnetic except at contacts.															
485.00	508.00	Pillow volcanics with well-developed variolites. Quartz heals fractures in epidotized veins.						Strong epidotization above 499.0									
									156039	500.00	504.00	4.00					
									156040	504.00	508.00	4.00					
		508.00 = END OF HOLE.															



42A08NW2005 2.18462 COOK 900

ctions 66(2) and 66(3) of the Mining Act. Under section 8 of the Mining Act, this work and correspond with the mining land holder. Questions about this collection t and Mines, 3rd 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.

2.18462

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

Name <i>Wild Resources</i>	Client Number 209430
Address <i>633 Lake St</i>	Telephone Number <i>905-98-5240</i>
<i>St Catharines ON L2N 6H4</i>	Fax Number <i>905-938-5240</i>
Name	Client Number
Address	Telephone Number
	Fax Number

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

- Geotechnical: prospecting, surveys, assays and work under section 18 (regs)       Physical: drilling stripping, trenching and associated assays       Rehabilitation

Work Type <i>Diamond Drilling</i>	Office Use
	Commodity
	Total \$ Value of Work Claimed <i>31,823</i>
Dates Work Performed From Day <i>19</i>   Month <i>4</i>   Year <i>98</i> To Day <i>25</i>   Month <i>4</i>   Year <i>1998</i>	NTS Reference
Global Positioning System Data (if available)	Mining Division <i>Larder Lake</i>
Township/Area <i>COOK TWP.</i>	Resident Geologist District <i>Kirkland Lake</i>
M or G-Plan Number <i>M-0339.</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)

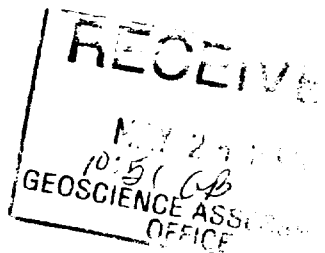
Name <i>Ralph Huggins</i>	Telephone Number <i>905-938-5240</i>
Address <i>633 Lake St, St Catharines ON L2N 6H4</i>	Fax Number
Name <i>Ken Garmundson</i>	Telephone Number <i>705-674-4377</i>
Address <i>110 Hyland Dr Sudbury ON P3E 1R6</i>	Fax Number
Name	Telephone Number
Address	Fax Number

4. Certification by Recorded Holder or Agent

I, RALPH HUGGINS (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>Ralph Huggins</i>	Date <i>May 22, 98</i>
Agent's Address <i>633 Lake St St Catharines</i>	Telephone Number <i>905 938-5240</i>
	Fax Number <i>905-938-5240.</i>

0241 (03/97)



Deemed August 21/1998

6. 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.

W9880:00325

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 L 799711	1		800'		
2 L 799712	1		800'		
3 L 799714	1		800'		
4 L 799715	1		800'		
5 L 799718	1		1200'		
6 L 799719	1		800'		
7 L 799720	1		800'		
8 L 799721	1		800'		
9 L 799722	1		800'		
10 L 799723	1		800'		
11 L 799724	1		800'		
12 L 799725	1		800'		
13 L 799726	1		800'		
14 L 799727	1		800'		
15 L 799728	1		800'		
Column Totals			12,400		

2.18462

I, RALPH HUOBINS, 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: Ralph Huobins Date: May 22, 98

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)	

0241 (03/97)

RECEIVED  
MAY 25 1998  
10:51 GB  
GEOSCIENCE ASSESSMENT  
OFFICE



Personal information collected on this form is obtained under the authority of subsection 6(1) of the Assessment Work Regulation 6/96. Under section 8 of the Mining Act, 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.

Work Type	Units of Work <small>Depending on the type of work, list the number of hours/days worked, metres of drilling, kilometres of grid line, number of samples, etc.</small>	Cost Per Unit of work	Total Cost
Diamond drilling	1,277'	\$15/H	19,155.
Logging Core	10 days	\$300/day	3,000
Report writing	10 days	\$300/day	3,000
<b>Associated Costs (e.g. supplies, mobilization and demobilization).</b>			
Mobilization/Demob			1,928.00
Materials: B.Q. core			738.00
BW 10' casing			595.70
G.S.T.			1989.17.
<b>Transportation Costs</b>			
Drive from St Catharines to Sudbury pick up Ken to Platherson bus to Sudbury		2500km @ 30¢/k	750
			68.05
<b>Food and Lodging Costs</b>			
food lodging \$30/day 10 days x 2			600
<b>Total Value of Assessment Work</b>			<b>31,823.92</b>

2.18402

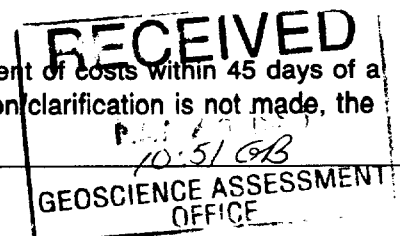
**Calculations of Filing Discounts:**

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

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

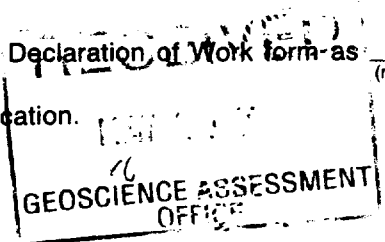
**Note:**

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



**Certification verifying costs:**

I, RALPH HUGGINS (please print full name), do hereby certify, that the amounts shown are as accurate as may reasonably be determined and the costs were incurred while conducting assessment work on the lands indicated on the accompanying Declaration of Work form as PRESIDENT. I am authorized (recorded holder, agent, or state company position with signing authority) to make this certification.



Signature: Ralph Huggins Date: May 22, 1999

MAY 26 '98 11:02 FR GEOSCIENCE ASSESSMENT 7356705881 TO 819057042777 P.02/03  
 5. Work to be recorded and assessed. Work can only be assigned to claims that are contiguous (adjacent) to the mining land where work was performed, at the time work was performed. A map showing the contiguous list must accompany this form.

Existing 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 Claims 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
08 TB 7027	16 ha	\$28,825	NA	\$24,000	\$2,825
08 1234567	12	0	\$24,000	0	0
08 1234568	2	\$ 8,882	\$ 4,000	0	\$4,882
1 L 799729	1		800'		
2 L 799730	1		800'		
3 L 850980	1		800'		
4 L 1217720	2	15,911	1600'		200 \$511.50
5 L 1211433	16		6,400'		
6 L 884192	1	15,912	1600'		\$ 511.50
7 L 1221039	8		2,200'		
8 L 884191	1		1,600'		
9 L 884190	1		800'		
10 L 884189	1		800'		
11					
12					
13					
14					
15					
Column Totals		31,923	21,500		10.23

I, RALPH HUGGINS 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 Recorder/Holder or Agent authorized in Writing: Ralph Huggins Date: May 22, 1998

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)	

Stamp: RECEIVED MAY 23 1998 GEOSCIENCE ASSESSMENT OFFICE

Received Stamp

Stamp: RECEIVED MAY 25 1998 10:51 AM GEOSCIENCE ASSESSMENT OFFICE

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

0241 (03/97)

Ministry of  
Northern Development  
and Mines

Ministère du  
Développement du Nord  
et des Mines



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

Telephone: (888) 415-9846  
Fax: (877) 670-1555

August 28, 1998

Ralph Huggins  
WILZEL RESOURCES LIMITED  
633 LAKE ST  
ST. CATHERINES, Ontario  
L2N-6H4

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

Dear Sir or Madam:

**Submission Number:** 2.18462

**Status**

**Subject: Transaction Number(s):** W9880.00325 Deemed 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. Allowable changes to your credit distribution can be made by contacting the Geoscience Assessment Office within this 45 Day period, otherwise assessment credit will be cut back and distributed as outlined in Section #6 of the Declaration of Assessment work form.

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

If you have any questions regarding this correspondence, please contact Steve Beneteau by e-mail at [benetest@epo.gov.on.ca](mailto:benetest@epo.gov.on.ca) or by telephone at (705) 670-5855.

Yours sincerely,

A handwritten signature in black ink, appearing to read "Blair Kite".

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

# Work Report Assessment Results

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**Submission Number:** 2.18462

**Date Correspondence Sent:** August 28, 1998

**Assessor:** Steve Beneteau

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<b>Transaction Number</b>	<b>First Claim Number</b>	<b>Township(s) / Area(s)</b>	<b>Status</b>	<b>Approval Date</b>
W9880.00325	1217720	COOK	Deemed Approval	August 21, 1998

**Section:**  
16 Drilling PDRILL

**Correspondence to:**

Resident Geologist  
Kirkland Lake, ON

Assessment Files Library  
Sudbury, ON

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

Ralph Huggins  
WILZEL RESOURCES LIMITED  
ST. CATHERINES, Ontario

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M.339

Guibord Twp.

THE TOWNSHIP OF

COOK

DISTRICT OF COCHRANE

LARDER LAKE MINING DIVISION

SCALE: 1-INCH= 40 CHAINS

LEGEND

- PATENTED LAND Ⓟ
- CROWN LAND SALE Ⓢ or C.S.
- LEASES Ⓛ
- LOCATED LAND Loc.
- LICENSE OF OCCUPATION L.O.
- MINING RIGHTS ONLY M.R.O.
- SURFACE RIGHTS ONLY Ⓢ.R.O.
- ROADS
- IMPROVED ROADS
- KING'S HIGHWAYS
- RAILWAYS
- POWER LINES
- MARSH OR MUSKEG
- MINES

DATE OF ISSUE

JUL 06 1998

PROVINCIAL RECORDING OFFICE - SUDBURY

NOTES

Area Withdrawn From Staking Under Mg. Act, 5 April 1951 Clause (d) Section 39

Gravel Reserve Shown Thus:

400' Surface rights reservation around all lakes & rivers.

Surface Rights Withdrawn under Sec. 36, The Mining Act R.S.O. 1980, ORDER NO. W-Q/31/0/RT (Trans Canada Pipeline Right of Way and Buffer Zone particularly 40.25 meters or 132 ft. on either side of centre line of right of way)

NOTICE OF FORESTRY ACTIVITY

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

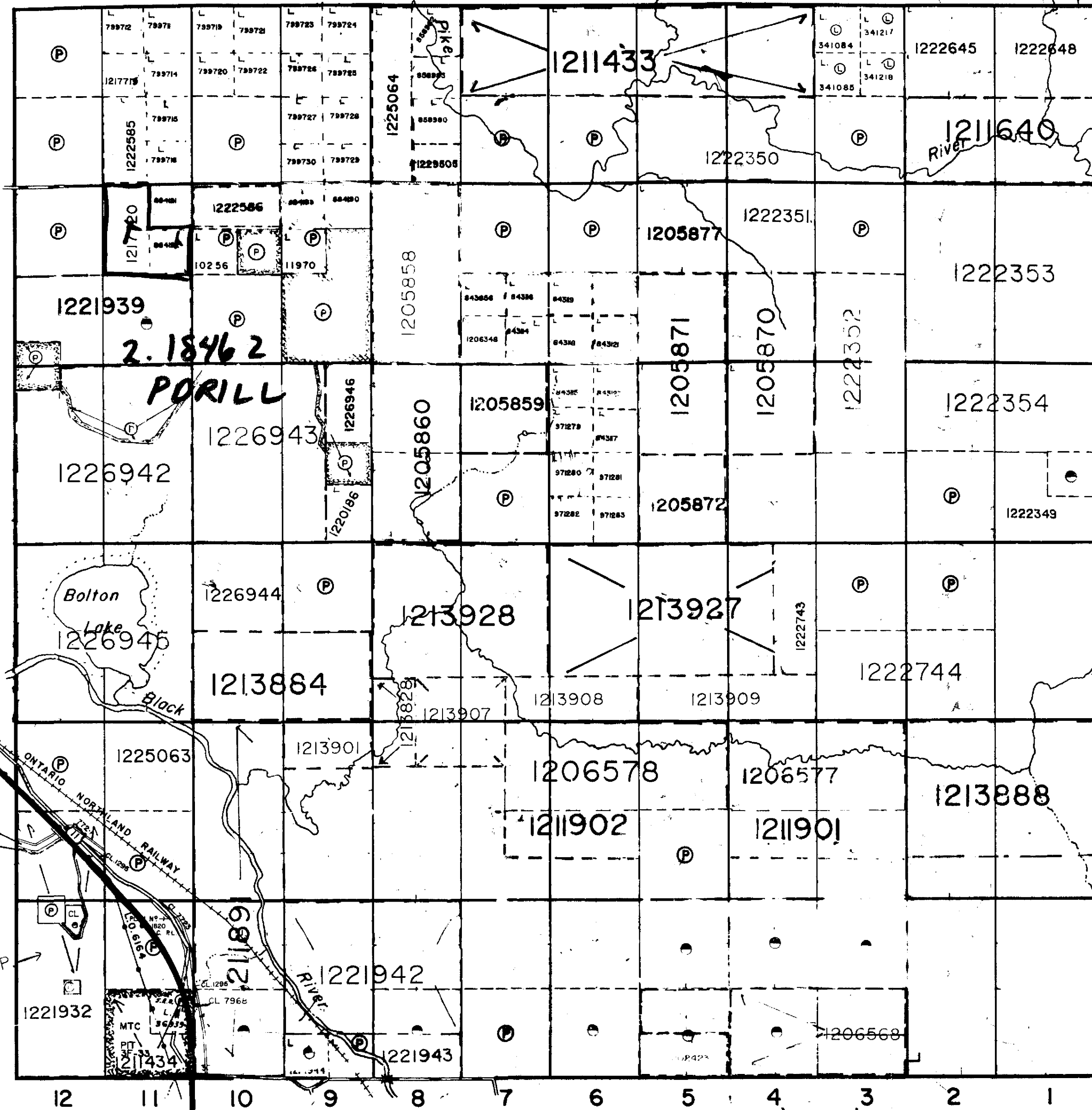
PLAN NO.- M.339

ONTARIO MINISTRY OF NATURAL RESOURCES SURVEYS AND MAPPING BRANCH

Playfair Twp.

Barnet Twp.

Benoit Twp.



B.D.



42A08NW2005 2.18462 COOK 200

COPY OF THIS MYLAR ARCHIVED SEPT 30, 1991 ARCHIVED APR 19, 1994 ARCHIVED ON JUNE 01/95 ARCHIVED JAN 28/97

# 18

M.339

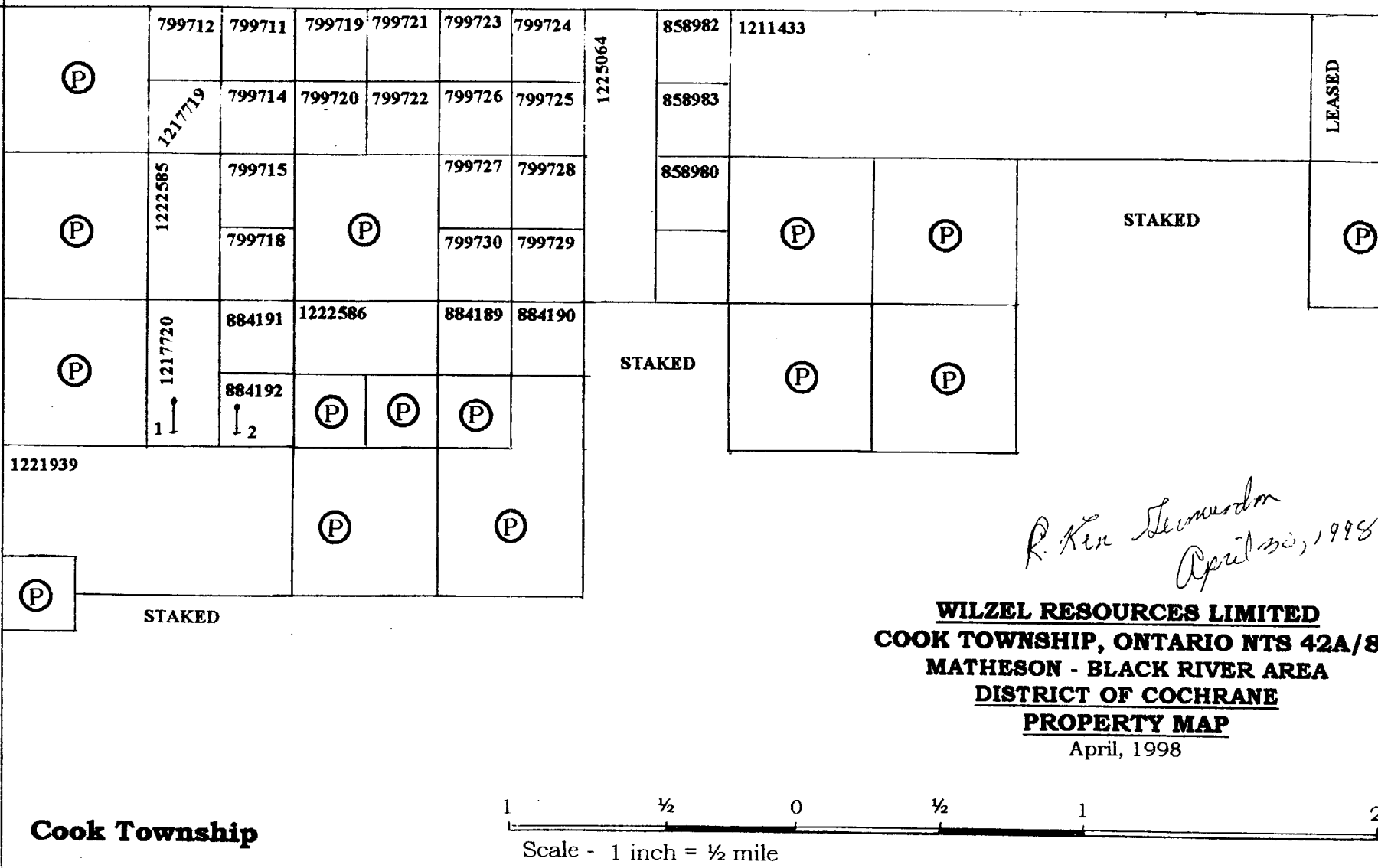
Hislop Township

Guibord Township

Playfair Township

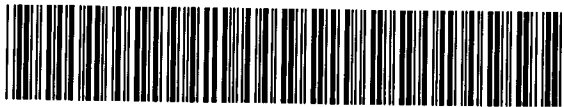
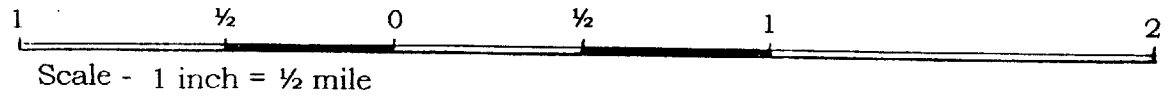


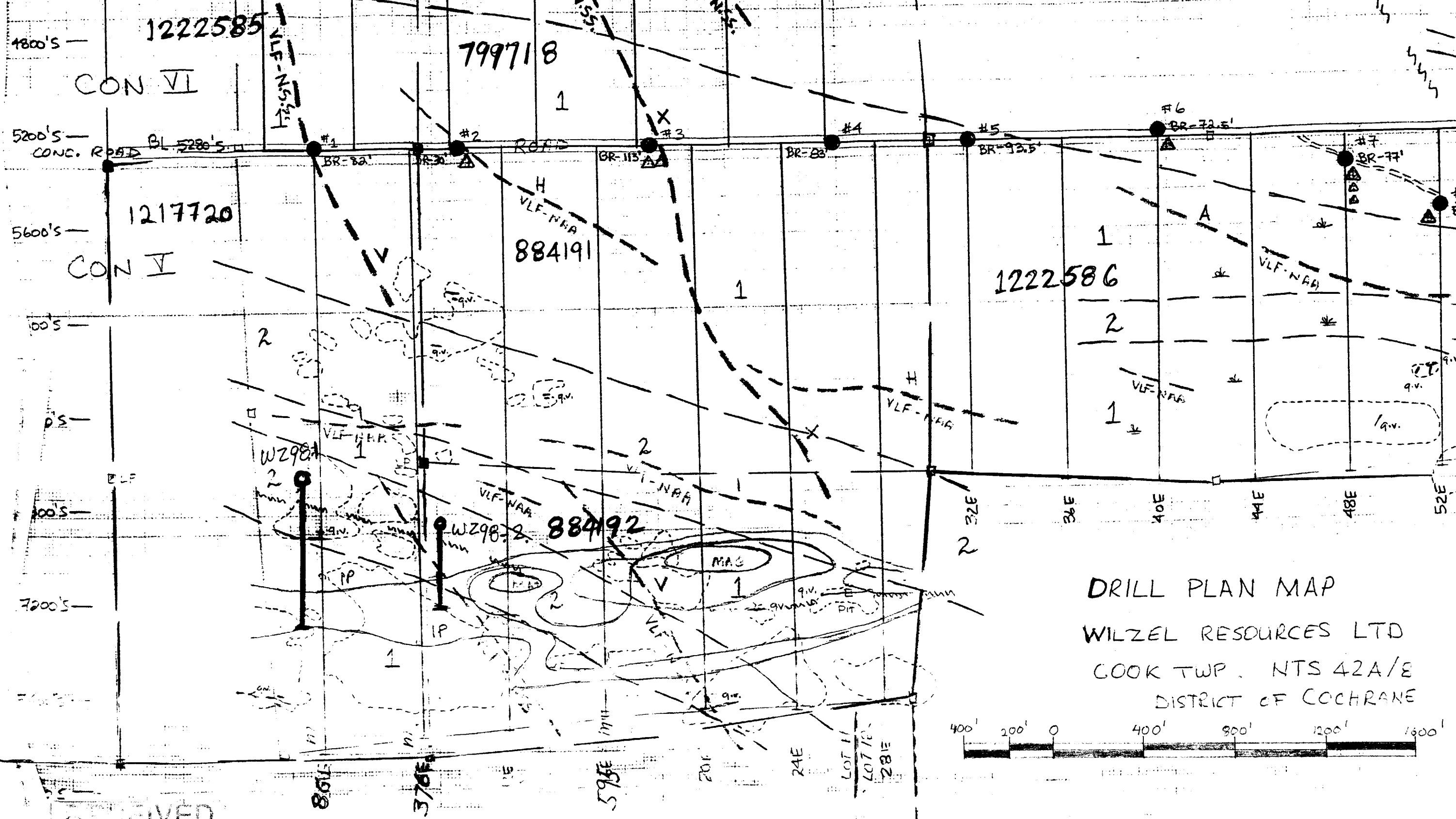
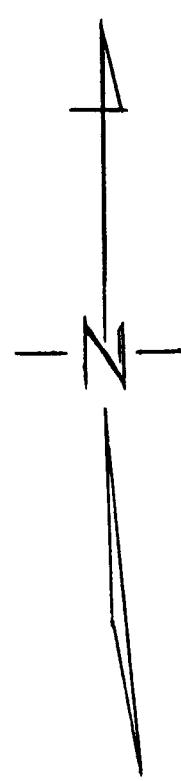
DDH WZ98 DRILL HOLE



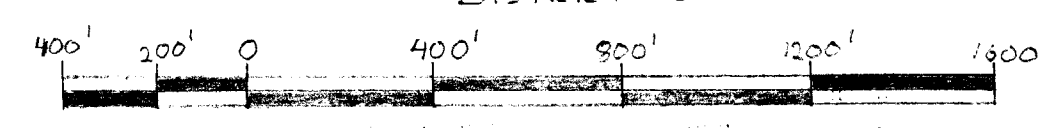
*R. Ken Swinson  
April 30, 1998*

**WILZEL RESOURCES LIMITED**  
**COOK TOWNSHIP, ONTARIO NTS 42A/8**  
**MATHESON - BLACK RIVER AREA**  
**DISTRICT OF COCHRANE**  
**PROPERTY MAP**  
April, 1998





DRILL PLAN MAP  
 WILZEL RESOURCES LTD  
 COOK TWP. NTS 42A/E  
 DISTRICT OF COCHRANE



SCALE 1:400

*May 22, 1998*  
*Rob Heagy*

RECEIVED

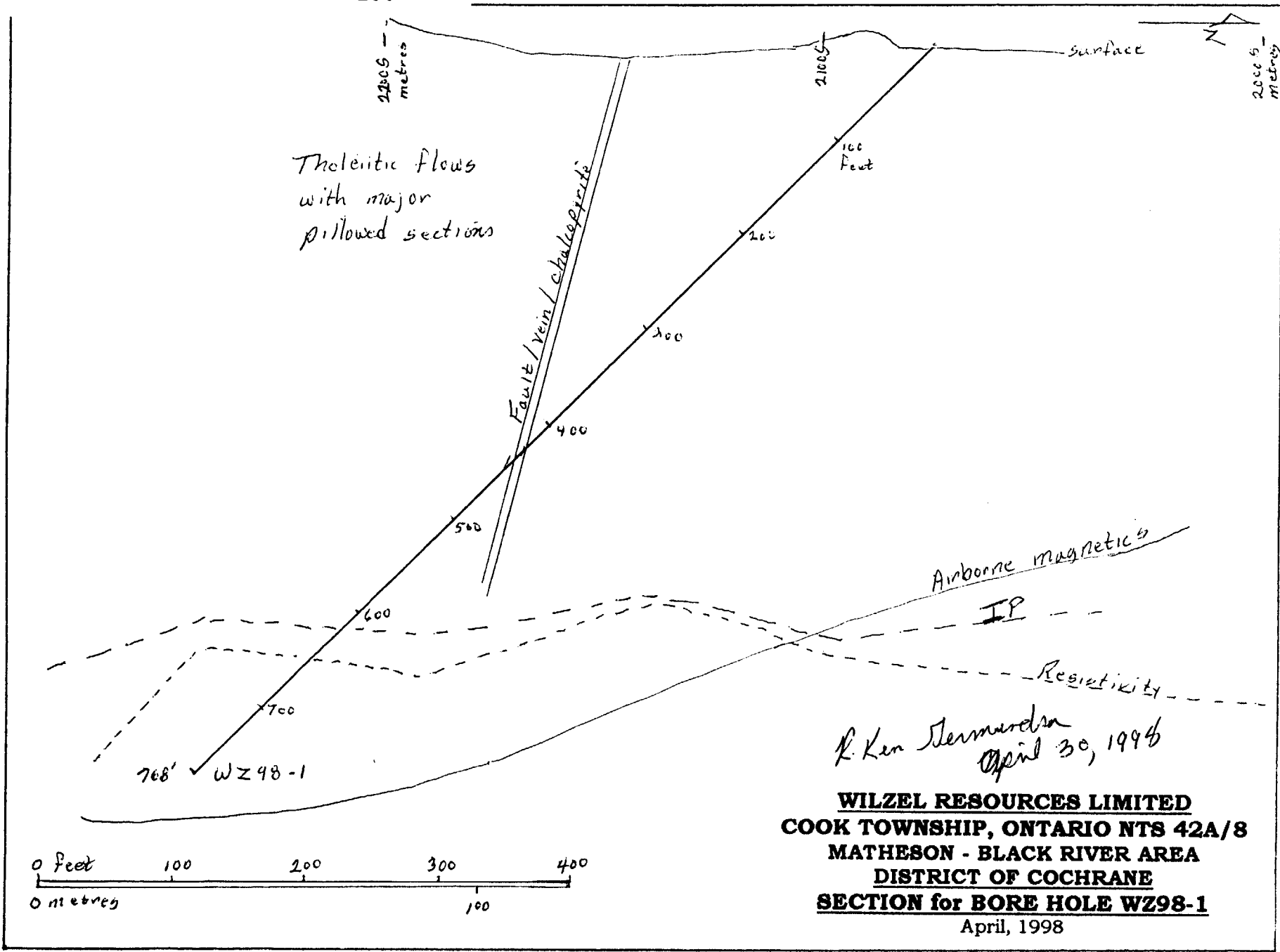
GEOSCIENCE ASSESSMENT  
 OFFICE





42A08NW2005 2.18462 COOK

230

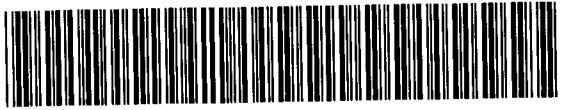


R. Ken Stenmadsen  
April 30, 1998

**WILZEL RESOURCES LIMITED**  
**COOK TOWNSHIP, ONTARIO NTS 42A/8**  
**MATHESON - BLACK RIVER AREA**  
**DISTRICT OF COCHRANE**  
**SECTION for BORE HOLE WZ98-1**

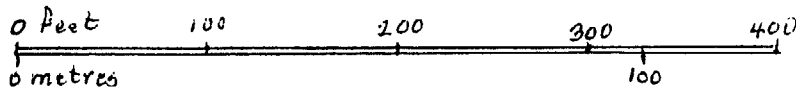
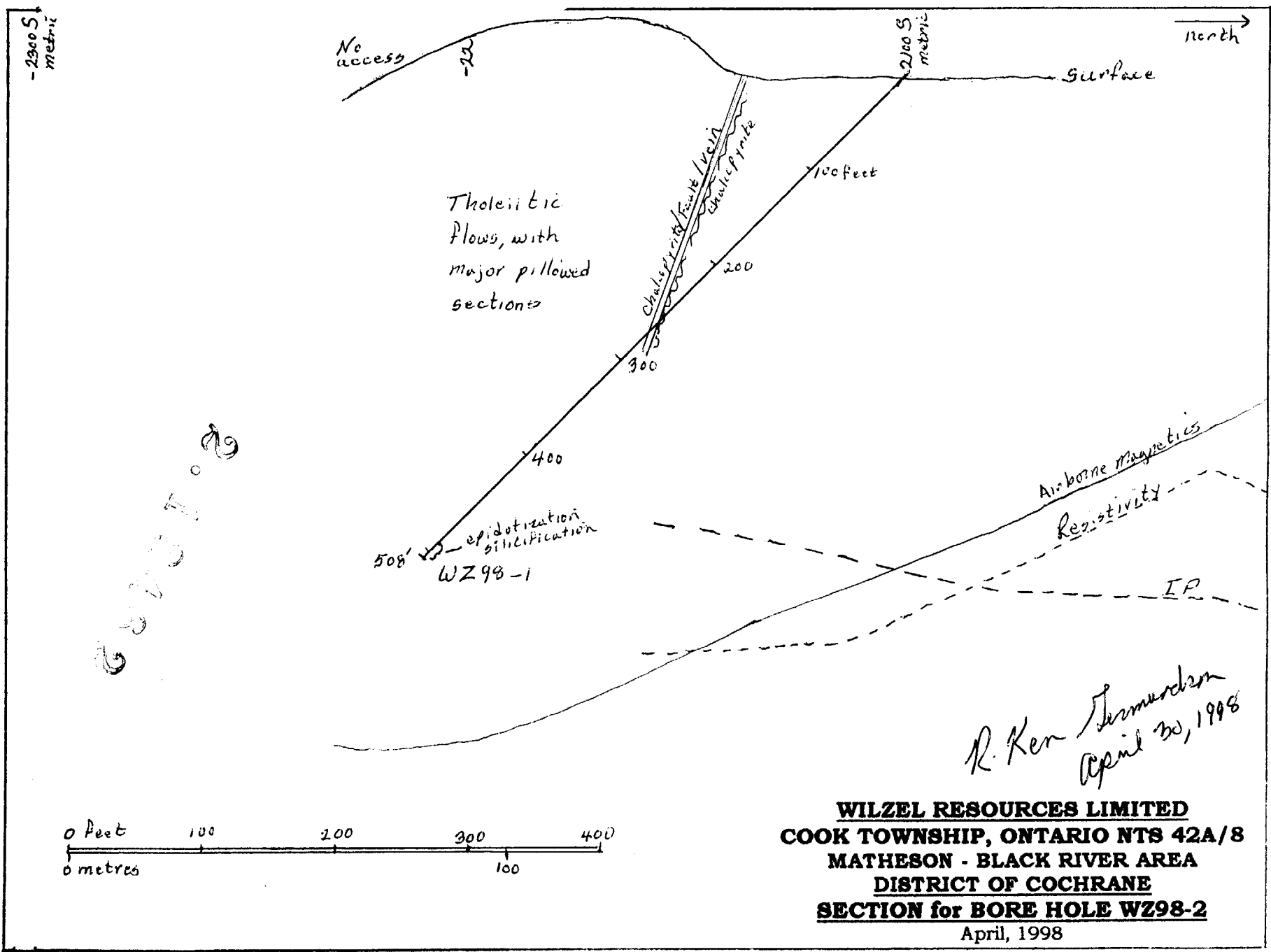
April, 1998





42A08NW2005 2.18462 COOK

240



**WILZEL RESOURCES LIMITED**  
**COOK TOWNSHIP, ONTARIO NTS 42A/8**  
**MATHESON - BLACK RIVER AREA**  
**DISTRICT OF COCHRANE**  
**SECTION for BORE HOLE WZ98-2**

April, 1998

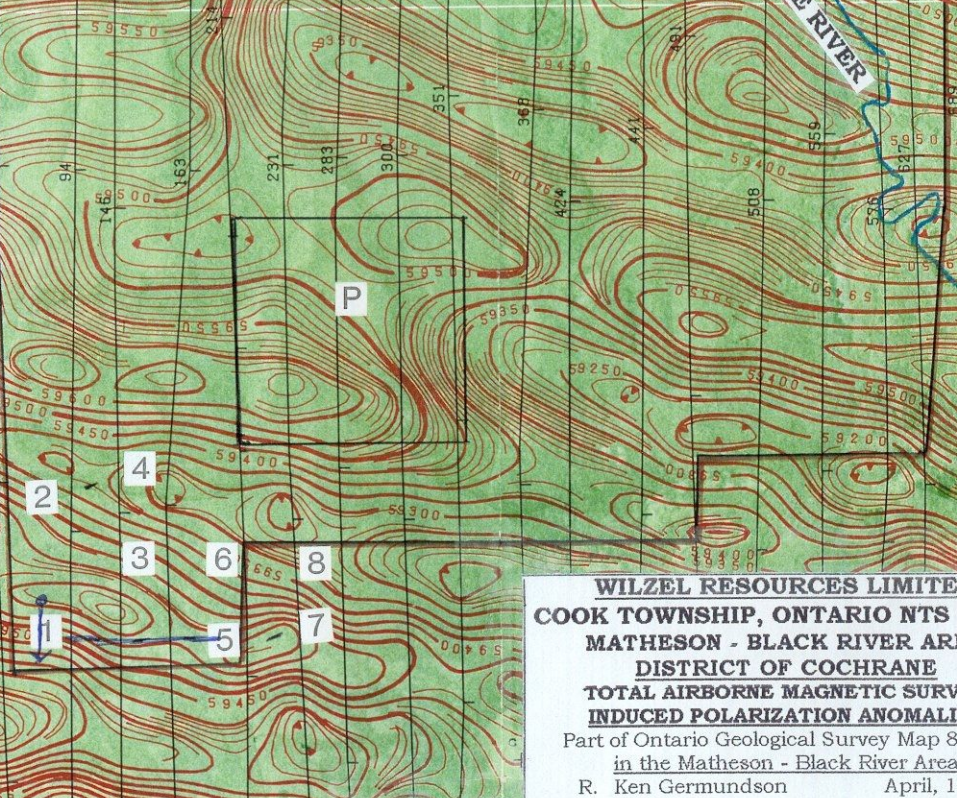
Heat Pump

11980S  
11990N  
12000S  
12011N  
12020S  
12030N  
12040S  
12050N  
12060S  
12070N  
12080S  
12090N  
12100S  
12110N  
12120S  
12130N  
12140S  
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12155S  
12170N  
12180S  
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12200N  
12210S  
12220N  
12230S

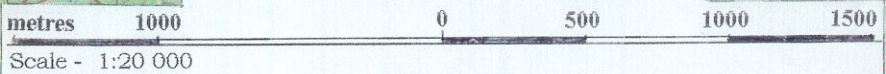


Low magnetic trend to the Ross Mine

PIKE RIVER



**WILZEL RESOURCES LIMITED**  
**COOK TOWNSHIP, ONTARIO NTS 42A/8**  
**MATHESON - BLACK RIVER AREA**  
**DISTRICT OF COCHRANE**  
**TOTAL AIRBORNE MAGNETIC SURVEY**  
**INDUCED POLARIZATION ANOMALIES**  
Part of Ontario Geological Survey Map 80606  
in the Matheson - Black River Area  
R. Ken Germundson April, 1998



42A08NW2005 2.18462 COOK 250

1, 2 ... Induced polarization Anomaly