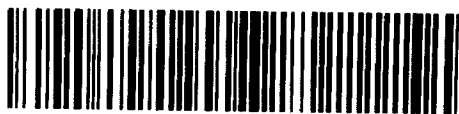




MEEGWIC

Géologie - Rédaction de Travaux Statutaires



42A01SW0035 2.9513 BURT

010

CHEVRON CANADA RESOURCES LTD

GEOLOGICAL REPORT

KIRKLAND LAKE PROPERTY

BURT TWP, ONTARIO

SEPTEMBER 1986

RECEIVED

NOV - 3 1986

MINING LANDS SECTION

T A B L E O



010C

Summary

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Appendix

SUMMARY


The Kirkland Lake Property (Meunier Option) of CHEVRON CANADA RESOURCES LTD. was gridded and mapped during the months of July and August 1986. The line cutting was performed by R. Dupras, while the geological mapping was undertaken by Meegwich Surveys, both operating from Rouyn-Noranda, Quebec.

The property is underlain by Huronian age sediments comprised of conglomerates, quartzites, argillites and slates. Penetrative deformation is minimal, and primary structures such as bedding have been well preserved. Jointing, which is well developed on the property, is believed to be the result of movement along faults which affected the underlying Archean volcanic and sedimentary rocks.

Ore deposits in the Kirkland Lake area are associated with Archean rocks of the Timiskaming Group and the Kirkland Lake-Larder Lake Fault. This structure of regional importance has been projected westward into Burt Township, and may cut the Archean rocks underlying the property.

A second phase of exploration, which includes a geochemical survey, channel sampling and a restricted geophysical survey has been recommended. Upon obtaining encouraging results from phase II, a diamond drilling programme should be considered (phase III).

Respectfully submitted:


Chantal Patenaude, B.Sc
Geologist

INTRODUCTION

Within the frame of an extensive exploration programme, line cutting and geological mapping were undertaken, during the months of July and August 1986, on the Kirkland Lake Property (Meunier Option) of CHEVRON CANADA RESOURCES LIMITED, located in Burt Township, Northern Ontario.

PROPERTY

The property surveyed is located in ranges III, IV and V, lots 2 to 7, in the eastern portion of Burt Township, and comprises 78 contiguous mining claims for an approximate surface area of 1248 hectares. A list of the claims is given in Appendix I.

LOCATION AND ACCESSIBILITY

The property is located in the eastern portion of Burt Township, Northern Ontario, 33 Km south-west of the mining town of Kirkland Lake.

It is easily accessible via highway 66 which crosses the southern portion of Eby Township, east of Burt Township. A logging road which branches off the main highway in a north-west direction crosses the south-



CHEVRON CANADA RES. LTD.
KIRKLAND LAKE Project
-Location Map-

east corner of the block of claims and continues on to cross the entire northern portion of the property in an east-west direction.

TOPOGRAPHY

The property is located on the eastern edge of a glacial plain, approximately 3.2 km east of the Englehart River. The glacial deposits consist of sand, gravel and varved clays.

On the property, a series of north-south swamps are separated by gentle slopes where rocks outcrop.

PREVIOUS WORK

The property was previously held by Billiton Canada Ltd. and was partly covered by a reconnaissance geological mapping programme, as well as an airborne aeromagnetic and VLF survey. A ground geophysical (VLF) survey performed over the north-eastern portion of the property located several conductors (stratigraphic or mineralized?). A diamond drilling programme was then undertaken, in 1984, to test two of the conductors obtained. One of the holes remained in Huronian sediments, whereas the other one intersected Archean rocks. No encouraging assay results were obtained, and the property was dropped (for drill hole location see

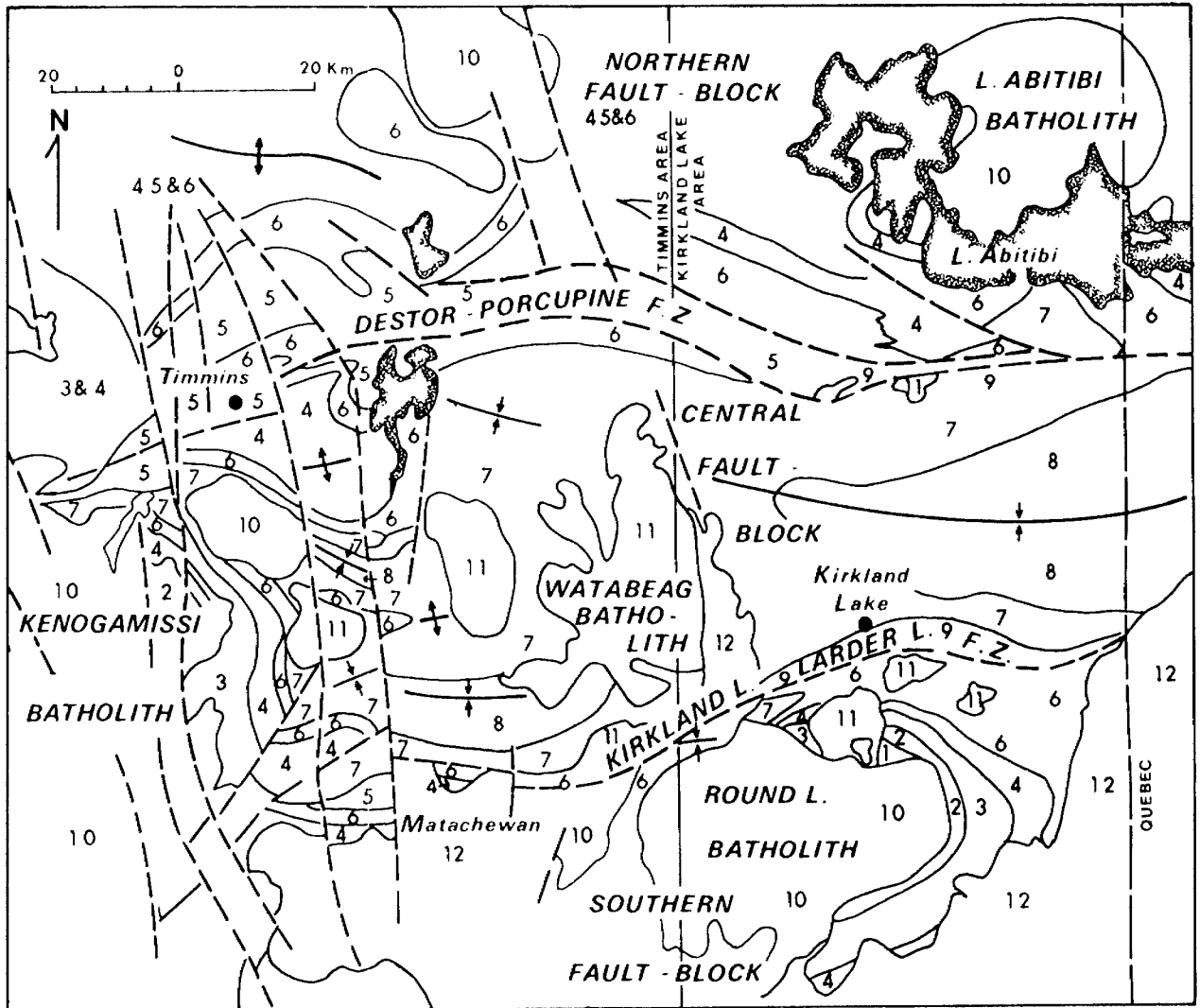
geological map enclosed).

GENERAL GEOLOGY

Kirkland Lake Area

The Kirkland Lake area is underlain by Archean volcanic, sedimentary and intrusive rocks comprised in the Abitibi Greenstone Belt. Two complete volcanic cycles, composed of komatiitic rocks, overlain by tholeiitic and calc-alkalic rocks and capped by an upper alkalic sequence are present (G.P. Watson and R. Kerrich, 1983). A sedimentary assemblage made up of conglomerate, argillite, chert and iron formation separate the two cycles. In the Kirkland Lake gold camp, gold is found within the Timiskaming group which is the upper alkalic part of the second cycle. Huronian sediments (Proterozoic) unconformably overlay these rock formations west of the town of Kirkland Lake. Diabase dikes of Keweenawan (Proterozoic) age cut all the above rocks. The area is then covered by a thick Pleistocene deposit consisting of till, sand, gravel, and clay left behind during the retreat of the Wisconsin Glacier.

Three major east-west trending structures are found in the area: First, a synclorium located between the Lake Abitibi Batholith (north of Lake Abitibi) and the Round Lake Batholith (south of Kirkland Lake), whose



LEGEND

- | | |
|---|---------------------|
| Proterozoic | 7 Kinojevis Group |
| Keeweenawan diabase not shown | 6 Larder Lake Group |
| 12 Cobalt Group | 5 Porcupine Group |
| Archean | Lower Supergroups |
| Matachewan diabase not shown | 4 Skead Group |
| Granitic rocks | 3 Catherine Group |
| 11 Granodiorite monzonite, quartz monzonite, syenite | 2 Wabewawa Group |
| 10 Massive to gneissic quartz diorite, tonalite, trondhjemite | 1 Pacaud tuffs |
| Upper Supergroups | |
| 9 Timiskaming Group | |
| 8 Blake River Group | |

CHEVRON CANADA RES. LTD.

Regional Geology of Kirkland Lake Area

KIRKLAND LAKE PROJECT

20 0 20 Km

DATE: AUGUST 1986

axis occurs midway between the 2 batholiths and plunges to the east. Secondly, two large fault zones, the Destor-Porcupine Fault Zone which cuts the northern limb of the synclinorium, and the Kirkland Lake-Larder Lake Fault Zone, striking at 065 degrees with an 80 dip, which cuts the southern limb of the synclinorium. These structures are believed to have developed during the deposition of the volcanic succession and must be considered as having been associated with the origin of the rocks, therefore being pre-ore structures (Jolly, 1978). The gold-producing mines of Kirkland Lake are spacially distributed along the Kirkland Lake Fault (also called the Main Break). Several post-ore, northerly striking faults displace both volcanic and sedimentary piles in the Kirkland Lake area.

Three types of ore occurrences have been proposed for the Kirkland Lake gold-camp:

Break ore, low grade bodies found within sections of the major breaks

Vein ore, gold-bearing quartz veins associated with the pre-ore fracturing

Breccia ore, less common, occurs in highly fractured, bleached rock containing lenses and pods of quartz with native Au and tellurides.

cambrian rocks. The volcanic pile consists of mafic to intermediate tuffs and iron formations, agglomerates, breccias and to a lesser extent felsic agglomerates. Conglomerates and greywackes which make up the sedimentary package overlie the metavolcanics. Plutonic rocks of granitic to dioritic composition intrude the aforementioned formations, and make up approximately 40 % of the area.

Proterozoic age Huronian sediments unconformably overlie the archean rocks. The sediments, part of the Gowganda Formation, consist of conglomerates, quartzites, slates, greywackes, grits, arkoses and argillites, the quartzites, greywackes and conglomerates being the major components of the assemblage.

Pleistocene and Recent glacial deposits of sandy boulder till and gravel mobilized by the receding glacial Lake Barlow-Ojibway cover most of the area. The Englehart River which crosses the western part of Burt Township in a north-south direction has given rise to modern flood plain deposits of silt, sand and gravel.

Rocks in the Burt Township area show little or no penetrative deformation. Bedding, which can best be observed in the Huronian sediments, generally dips less than 20 degrees although dips as great as 80 degrees were observed. The strike varies a great deal, except in the southwestern part of the belt where it approach-

hes a consistent east-north-east trend. Local folding or faulting probably caused the occasional steep dip.

The Larder Lake Fault has been projected westward into Burt Township. The northeasterly-striking cleavages and joints have been interpreted as resulting from the movement along this structure. However evidence of post-Cobalt movement is ambiguous, and the exact location of the fault remains undetermined.

Throughout the years, evidence of gold, copper, molybdenum and lead mineralizations has been noted in quartz veins and shear zones, although no economical deposits have yet been discovered in the area.

PROPERTY GEOLOGY

Geological mapping of the property was undertaken during the month of August 1986 on a newly cut grid. The group of claims was divided into two blocks, Block I (B I) in the south and Block II (B II) in the north. A series of north-south lines were cut and picketed, and two base lines as well as three tie lines, having an east-west direction, were also cut to provide excellent grid control. Every line cut was prospected in the quest for rock outcrops.

Recent marshes and swamps cover approximately 60 % of

Recent marshes and swamps cover approximately 60 % of the property. On Block I, the swamps cover most of the area south of the base line, with the exception of small ridges in the south east corner and near lines 24W and 25W where a large north-south trending cliff occurs. Block II displays numerous large outcrops in the eastern portion of the grid, both north and south of the base line. The western part of the block, from line 8W north of the base line and line 22W south of the base line, is covered by swamps and flood plains caused by beaver dams.

The property is underlain by Proterozoic sediments of Huronian age. The rocks have a north-east strike and generally dip less than 20 degrees. Alteration is minimal and primary structures, such as bedding and ripple marks, have been very well preserved.

The sedimentary assemblage consists of quartzites, argillites, slates and conglomerates. Each unit is described below in order of importance.

The quartzite unit (5b), dominates the southwestern portion of the property. It is typically immature, massive (jointing in this unit occurs at intervals of 1 / 20 to 30 cm), and may be subdivided into three groups on the basis of composition.

5b₁ is characterized by a grey to buff weathering

surface and a medium grey fresh surface. It generally contains more than 50 % quartz, 30 % mafic minerals and 20 % feldspar crystals.

5b₂ , reddish grey on weathered and fresh surface, contains 40 to 50 % feldspars, 30 % quartz and 20 % mafic minerals.

5b₃ , noted on L6W / 6+50N (B I) and L0 / 9+75N (B II) is feldspar rich and therefore characterized by a reddish pink surface (both weathered and fresh). On L6W, very good banding and ripple marks have been noted. This subunit often occurs as vein-like lenses within the argillites or the slates.

Unit 5d , the argillite, occurs as a thin band in the east-central section of Block I, a broad zone in the east-central portion of Block II, as well as isolated outcrops in the western portion of both blocks. It is typically characterized by a greyish buff weathering surface, a medium grey fresh surface and interlocking grains. In this unit, jointing occurs at regular intervals of 1 / 5 to 10 cm. Stratigraphic changes between the argillites and the quartzites or the slates is gradational, and therefore it is considered a transitional unit.

Unit 5c, the slate, is characterized by a buff to white weathered surface, a dark grey fresh surface, and conchoidal fracturing. It occurs as north-east trending bands throughout the eastern portion of the property,

or as pods contained within the argillites immediately north and south of the base line O, Block II. This unit is extremely brittle and jointing typically occurs at every 1 to 5 cm intervals.

Unit 5a, the conglomerate, occurs as a thin band in the central-western portion of Block II and as an isolated group of outcrops in the south-eastern corner of Block I. The conglomerate is made up of polymictic, unsorted, angular to subrounded fragments. Their composition ranges from granitic to syenitic, and occasionally quartzitic or argillaceous, with a size variation between 5 cm and 40 cm. They are in suspension in a medium grey quartzitic (5b) or argillaceous (5d) matrix. The fragments typically make up 25-30 % of the rock. This unit is practically not affected by jointing.

Unit 1, a mafic metavolcanic rock, was only sighted on LO, 6+90N (B I). The rock is fractured, brecciated and contains volcanic bombs of mafic composition. It is the only noted occurrence of Archean rocks on the property. The infiltration of chlorite along fracture planes and the presence of up to 2 % disseminated pyrite cubes, may indicate the presence of a major break at proximity to this outcrop.

STRUCTURAL GEOLOGY

The dominating structural feature on the property consists of extensive jointing, which displays various strike directions. The western portion of Block I is dominated by west of north (330 to 350 degrees) and north-east (40 to 60 degrees) directions; the remaining portion of Block I displays north of west (280 to 300 degrees) and north-east (40 to 60 degrees) directions; finally, near north (350 to 10 degrees) and near east (70 to 90 degrees) directions characterize Block II. The dip angle is mostly subvertical, but occasional shallower angles, +/- 70 degrees, have also been noted.

Fracturing and jointing of the Huronian group is considered to be the result of faulting in the underlying Archean rocks.

Bedding is very well preserved in the Huronian sediments. On the property, its direction is between 020 degrees to 040 degrees and it has a gentle dip, less than 020 degrees, to the north-west. Primary structures such as ripple marks have been noted on L6W, station 6+75N (BI).

ALTERATION AND VEINING

The rocks on the property have suffered very little deformation or alteration. Local moderate to weak

silicification has been noted at proximity to station 6+00S, Block II.

Hairline quartz veins occur as fracture filling in the north-eastern portion of the group of claims. The veining seems to be associated with the presence of slate pods in the argillites. This aspect will be discussed further in a later section.

MINERALIZATION

Pyrite is the only sulfide noted on the property during this geological mapping programme. It occurs as disseminated fine grains or as cubes along fracture planes. Its concentration ranges from trace to approximately 2 %. The mineralization does not seem to be directly related to the occurrence of quartz veins.

DISCUSSION

According to the Ontario Geological Survey map no. P. 207 as well as field evidences gathered while mapping, the stratigraphic succession of the Cobalt Group would be:

HURONIAN

COBALT GROUP

- 5a Conglomerate
- 5b Quartzite
- 5d Argillite
- 5c Slate

The geological contacts inferred on the accompanying map (see attached pocket) may in fact represent differential topographic levels, since the property is comprised of rolling hills separated by marshes and swamps. Therefore, the interfingering effect could also be interpreted as "topographic contours".

Special attention should be given to the outcrops noted in the eastern portion of the property, north of the base line on lines 4W to 2W (B II) and on line 7W station 10+50S (B II). Both areas are comprised within the argillites (5d) and display subangular slate pods of various sizes. In both instances, multidirectional quartz veining occurs. Although no mineralization is associated with the quartz veins nor the numerous jointing of the rocks, it is believed that this feature may be the result of movement of the underlying Archean rocks where economical base and precious metal deposits are known to occur.

CONCLUSIONS

The Kirkland Lake Property is underlain by a sedimentary assemblage of Huronian age. Geological mapping of the property indicated the presence of jointing and quartz infilling probably related to faulting which affected the underlying Archean metavolcanic rocks. It is known, through past exploration programmes in the area, that mineral deposits of economical importance occur at proximity to, or are comprised in, the Timiskaming Group metavolcanics. In order to detect the effects of the underlying Archean rocks on the Huronian sediments, and therefore determine the mineral potential of the property, a second phase of exploration is recommended.

C E R T I F I C A T E

I, Chantal Patenaude, of the City of Rouyn-Noranda, in the Province of Quebec, Canada hereby certify:

1. That I am a consulting geologist, and have been engaged in my geological profession for approximately three years.
2. That I am a graduate of McGill University (1983) with a B.Sc. in geology.
3. That I am a member of the Association des Prospecteurs du Quebec, member of the Society of Economic Geologists, and member of the Prospectors and Developers Association of Canada.
4. That my knowledge of the property described was acquired during the geological mapping programme of 1986 and through a study of government publications and reports.
5. That I have no interest either direct or indirect, nor do I expect to receive any, in the properties and securities of Chevron Canada Resources Ltd.

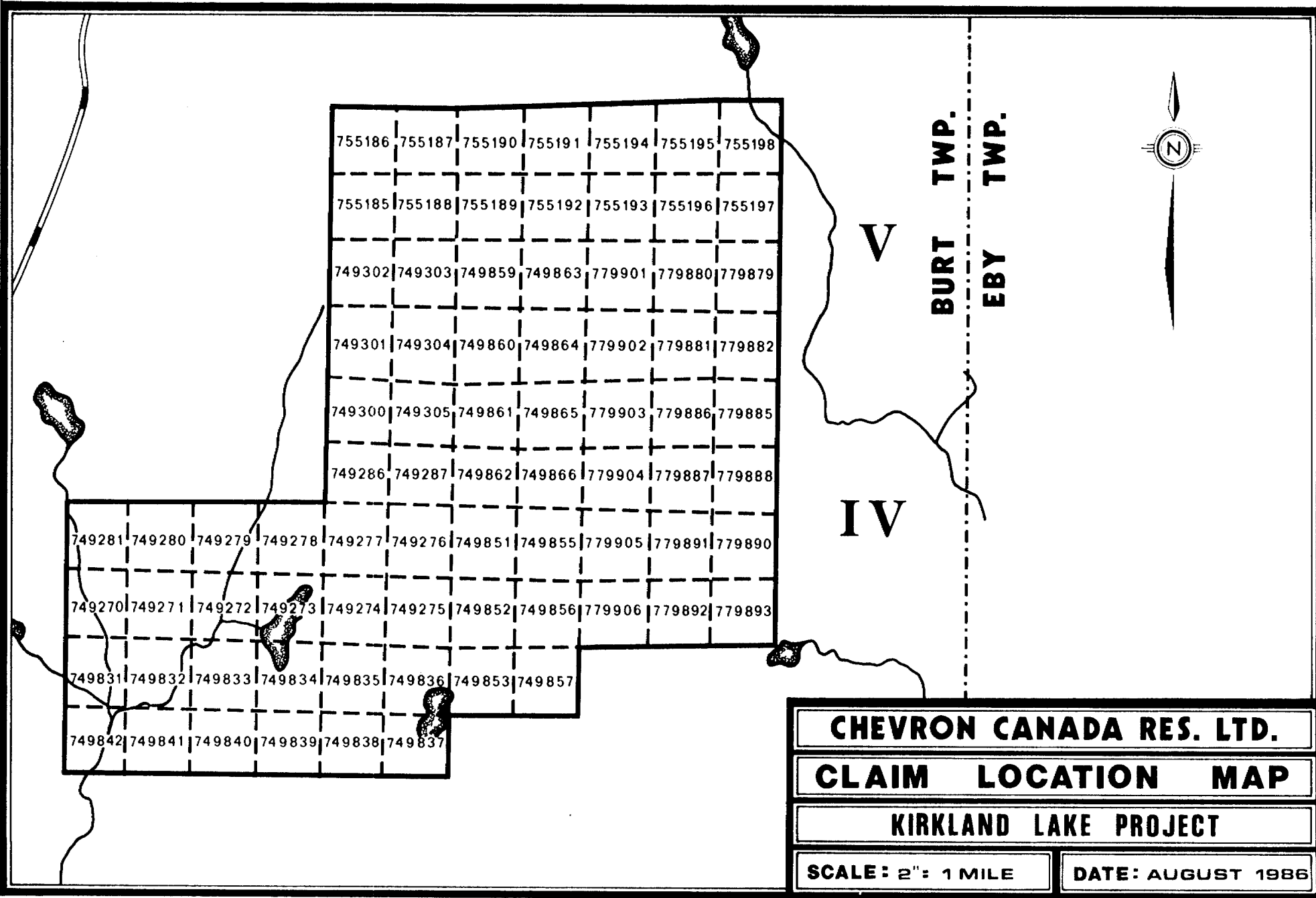
Dated at Rouyn-Noranda, Quebec, this 26th day of September 1986.

Chantal Patenaude

APPENDIX 1

LIST OF CLAIMS

749831	749832	749833	749834	749835
749836	749837	749838	749839	749840
749841	749842	749851	749852	749853
749855	749856	749857	749859	749860
749861	749862	749863	749864	749865
749866	749301	749302	749303	749304
749270	749271	749272	749273	749274
749275	749276	749277	749278	749279
749280	749281	749286	749287	749300
749305	755185	755186	755187	755188
755189	755190	755191	755192	755193
755194	755195	755196	755197	755198
779901	779902	779903	779904	779905
779906	779879	779880	779881	779882
779885	779886	779887	779888	779890
779891	779892	779893		



755186	755187	755190	755191	755194	755195	755198
755185	755188	755189	755192	755193	755196	755197
749302	749303	749859	749863	779901	779880	779879
749301	749304	749860	749864	779902	779881	779882
749300	749305	749861	749865	779903	779886	779885
749286	749287	749862	749866	779904	779887	779888

749281	749280	749279	749278	749277	749276	749851	749855	779905	779891	779890
749270	749271	749272	749273	749274	749275	749852	749856	779906	779892	779893
749831	749832	749833	749834	749835	749836	749853	749857			
749842	749841	749840	749839	749838	749837					

BURT TWP.
EBY TWP.

V
IV



CHEVRON CANADA RES. LTD.
CLAIM LOCATION MAP
KIRKLAND LAKE PROJECT
SCALE: 2" = 1 MILE **DATE: AUGUST 1986**

357/86

Type of Survey: **GEOLOGICAL**

Claim Holder(s): **CHEVRON MINERALS LTD**

Address: **#1714-390 BAY STREET, TORONTO, ONTARIO M5H 2Y2**

Survey Company: **MEEGWICH SURVEYS (REG'D)**

Name and Address of Author (of Geo-Technical report): **CHANTAL PATENAUDE, C.P. 763, EVAIN, QUEBEC JOZ IYO**



900

Credits Requested per Each Claim in Columns at right Mining Claims Traversed (List in numerical sequence)

Special Provisions For first survey: Enter 40 days. (This includes line cutting) For each additional survey: using the same grid: Enter 20 days (for each)	Geophysical - Electromagnetic - Magnetometer - Radiometric - Other	Days per Claim 40
	Geological Geochemical	
Man Days Complete reverse side and enter total(s) here RECEIVED SEP 17 1986 MINING LANDS SECTION	Geophysical - Electromagnetic - Magnetometer - Radiometric - Other	Days per Claim
	Geological Geochemical	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic Magnetometer Radiometric	Days per Claim

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
L	749270		L	749834	
	749271			749835	
	749272			749836	
	749273			749837	
	749274			749838	
	749275			749839	
	749276			749840	
	749277			749841	
	749278			749842	
	749279			749851	
	749280			749852	
	749281			749853	
	749286			749855	
	749287			749856	
	749300			749857	
	749301			749859	
	749302			749860	
	749303			749861	
	749304			749862	
	749305			749863	
	749831			749864	
	749832			749865	
	749833			749866	

Expenditures (excludes power stripping)

Type of Work Performed: **LABOR**

Performed on Claim(s): **1714-390 BAY STREET**

Calculation of Expenditure Days Credits

Total Expenditures: \$ ÷ 15 = Total Days Credits

Instructions: Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Total number of mining claims covered by this report of work: **77**

Date: **September 5/86** Recorder Holder or Agent (Signature): *[Signature]*

For Office Use Only

Total Days Cr. Recorded: **3080** Date Recorded: **SEP 8 1986** Mining Recorder: *[Signature]*

Date Approved as Recorded: **SEP 11 1986**

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying: **W.E. GLENN, #1714-390 BAY STREET, TORONTO, ONTARIO M5H 2Y2**

Date Certified: **Sept 5/86** Certified by (Signature): *[Signature]*

Mining Act

Type of Survey(s) **Geochemical** *WORKSHEET* Township or Area **Burt Township**

Claim Holder(s) **Chevron Minerals Ltd.** Prospector's Licence No. **T-1690**

Address **#1714 - 390 Bay Street, Toronto, Ontario, M5H 2Y2**

Survey Company **Meegwich Surveys** Date of Survey (from & to) **15 Day 09. 86 30 Day 03. 87** Total Miles of line Cut **----**

Name and Address of Author (of Geo-Technical report) **W.E. Glenn - #1714 - 390 Bay Street, Toronto, Ontario M5H 2Y2**

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Man Days	Geophysical	Days per Claim
Complete reverse side and enter in AIRBORNE DIVISION	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	10.28
Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend.	Mining Claim		Expend.
Prefix	Number	(DAYS)	Prefix	Number	Days Cr.
L	755195	✓			
	755196	✓			
	755197	✓			
	755198	✓			
	779879	✓			
	779880	✓			
	779881	✓			
	779882	✓			
	779885	✓			
	779886	✓			
	779887	✓			
	779888	✓			
	779890	✓			
	779891	✓			
	779892	✓			
	779893	✓			

RECEIVED
 JUN 29 1987
 10:00am
 [Signature]

Expenditures (excludes power stripping)

Type of Work Performed **Geochemical** *JUN 15 1987*

Performed on Claim(s) **MINING LANDS SECTION**

Calculation of Expenditure Days Credits

Total Expenditures **\$** ÷ **15** = Total Days Credits

Instructions
 Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

For Office Use Only

Total Days Cr. Recorded **164.48** Date Recorded **JUN 29 1987** Mining Recorder **M.A. Weimer**

Date Approved as Recorded **JUN 23 1987** Branch Director

Date **June 23/87** Recorded Holder or Agent (Signature) *[Signature]*

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying **W.E. Glenn, Chevron Canada Resources Ltd., #1714-390 Bay Street, Toronto, ON, M5H 2Y2**

Date Certified **June 23/87** Certified by (Signature) *[Signature]*

Total number of mining claims covered by this report of work. **16**

REPORT OF WORK (cont)

BURT TOWNSHIP GEOLOGICAL SURVEY

L 755185	L 779888
755186	779890
755188	779891
755189	779892
755190	779893
755191	779901
755192	779903
755193	779904
755194	779905
755195	779906
755196	< 779902 >
755197	
755198	
755199	
755200	
779878	
779879	
779880	
779881	
779882	
779885	
779886	
779887	

See letter
attached.

77 Total



Chevron Canada Resources Limited

Minerals Staff

Suite 1714 - 390 Bay Street, Toronto, Ontario M5H 2Y2 • Phone (416) 947-9166

October 27, 1986

S.E. Yundt, Director,
Land Management Branch,
Mining Lands Section,
Whitney Block, 6th Floor,
Queen's Park,
Toronto, Ontario
M7A 1W3

Dear Mrs Yundt:

Enclosed please find two copies of a Geological Survey Report prepared by Meegwich Surveys for Chevron Canada Resources in Burt Township, Larder Lake Mining Division.

Sincerely,

A handwritten signature in cursive script that reads 'S. Williams'.

Sally Williams

encl.

RECEIVED
NOV 0 1986
MINING LANDS SECTION

JUL 2 1986

BURT TOWNSHIP

30

LEGEND

PATENTED LAND
CROWN LAND SALE
LEASES
LICENSE OF OCCUPATION
LOCATED LAND
MINING RIGHTS ONLY
SURFACE RIGHTS ONLY
CANCELLED

Ⓟ CS.
Ⓛ L.O.
Ⓛ Loc.
Ⓛ M.R.O.
Ⓛ S.R.O.
Ⓛ C.

Mining & Surface rights withdrawn from staking out, prospecting
Sale or lease, Sec 36, The Mining Act, R.S.O. 1980
Order No. NRW 24/82 Nov 29, 1982 140 pm

400' surface rights reservation along the shores
of all lakes and rivers.

LARDER LAKE MINING DIVISION DISTRICT OF TIMISKAMING

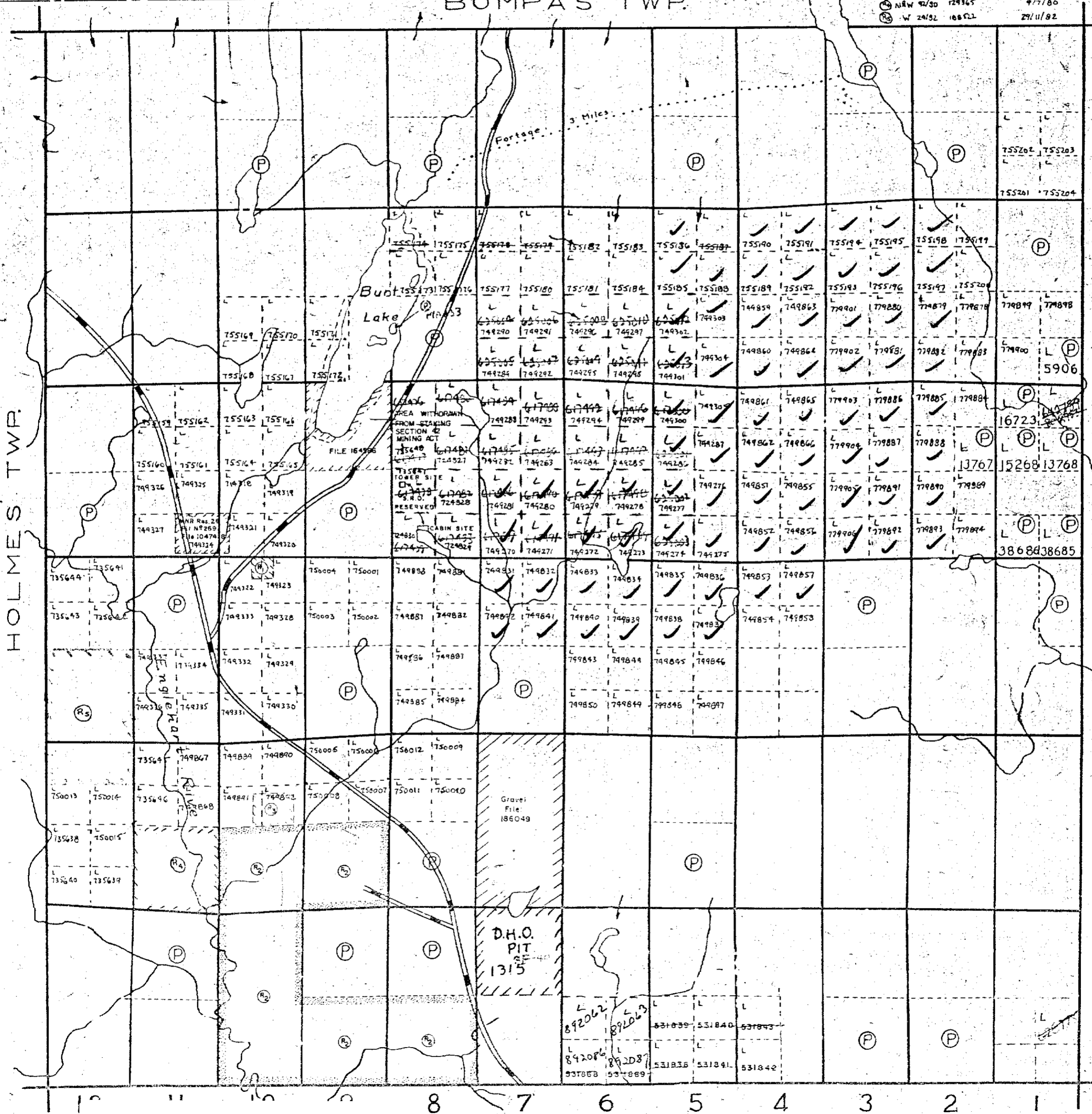
M.334

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

SCALE 40 CHAINS TO ONE INCH

Order No.	File	Date	Disposition
Ⓟ W.7/74	104317	21/2/74	S.R.O.
Ⓟ W.71/76	100581	15/12/76	S.R.O.
Ⓟ NR # 33/79	139857	14/5/79	S.R.O.
Ⓟ NRW 42/80	129365	9/7/80	S.R.O.
Ⓟ W. 24/82	188522	29/11/82	SR # 198

BOMPAS TWP.



HOLMES TWP.

VI

V

IV

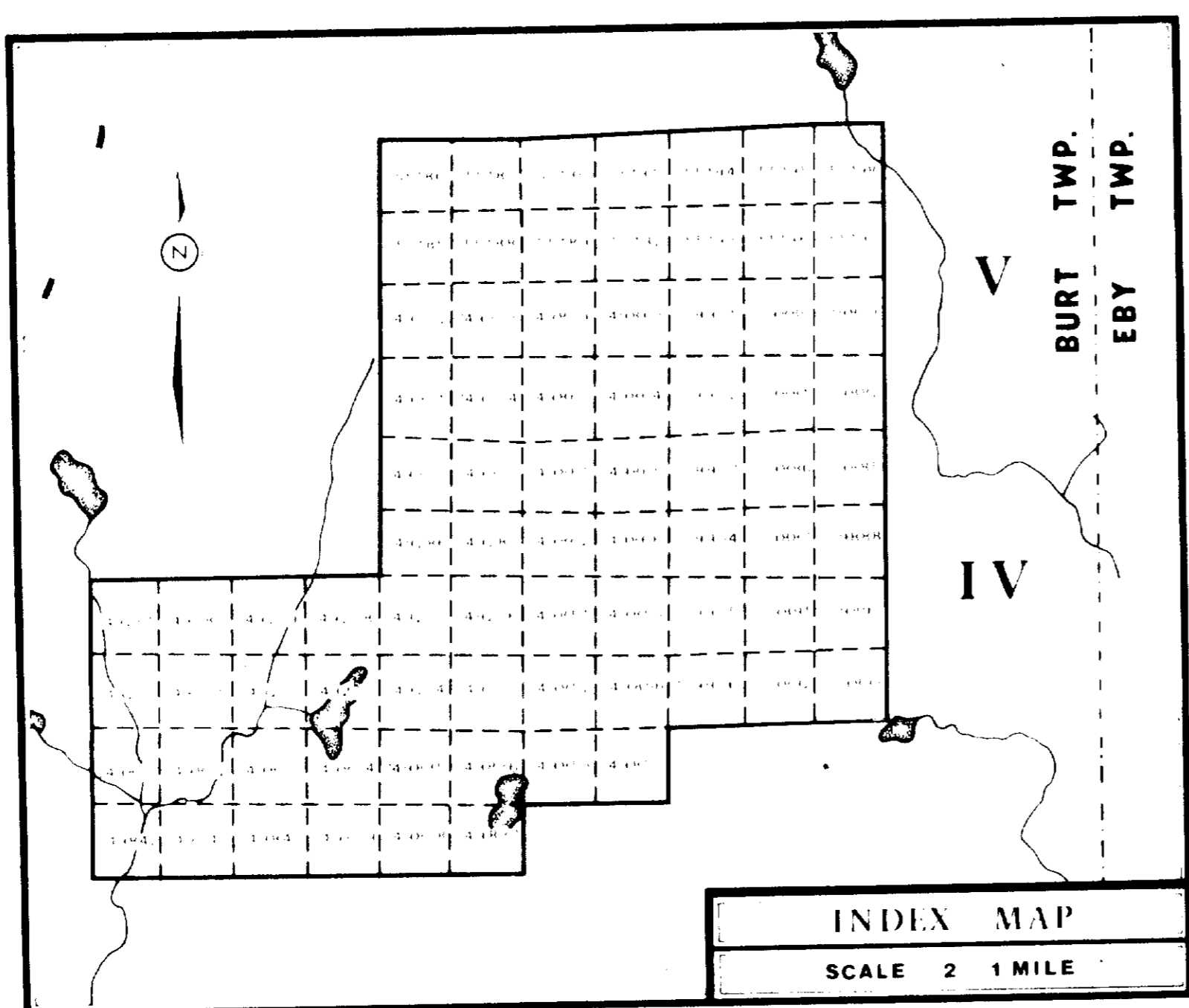
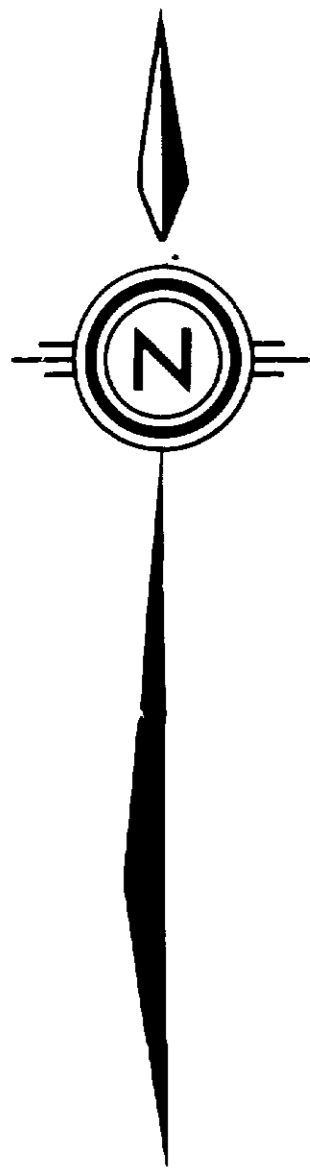
EBY TWP.

GROSS TWP.



42A015W0035 2.9513 BURT

L 44 W L 43 W L 42 W L 41 W L 40 W L 39 W L 38 W L 37 W L 36 W L 35 W L 34 W L 33 W L 32 W L 31 W L 30 W L 29 W L 28 W L 27 W L 26 W L 25 W L 24 W L 23 W L 22 W L 21 W L 20 W L 19 W L 18 W L 17 W L 16 W L 15 W L 14 W L 13 W L 12 W L 11 W L 10 W L 9 W



Legend

~ HURONIAN

COBALT GROUP

- 5 5a Conglomerate
- 5b Quartzite
 - 1 > 50% qtz
 - 2 < 50% qtz
 - > 30% kspar
 - 3 banded, red beds
- 5c Slate
- 5d Argillite

~ ARCHEAN

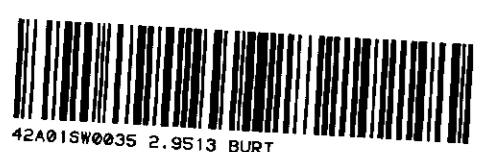
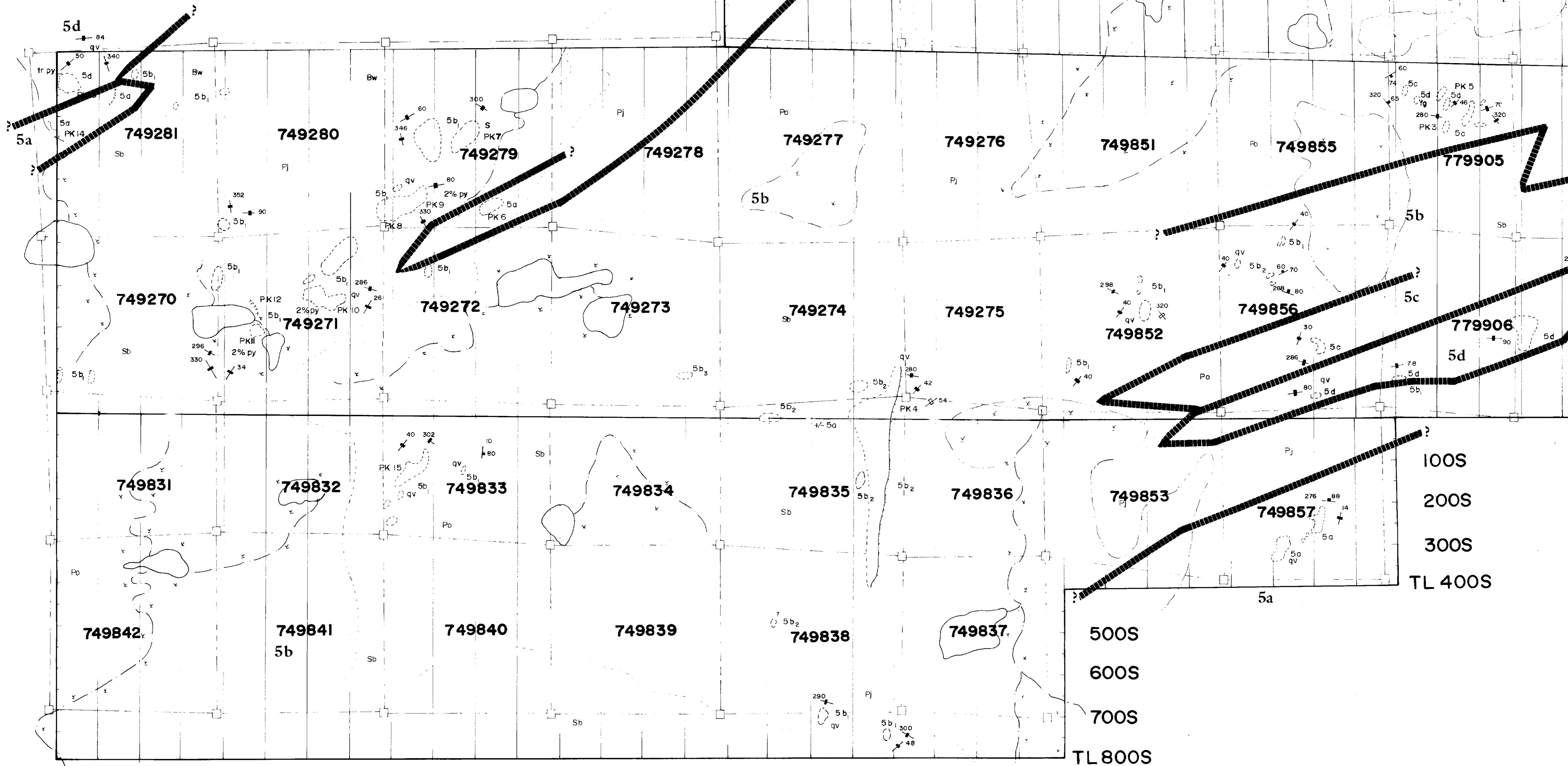
- 1 Mafic to intermediate metavolcanic rocks

~ SYMBOLS

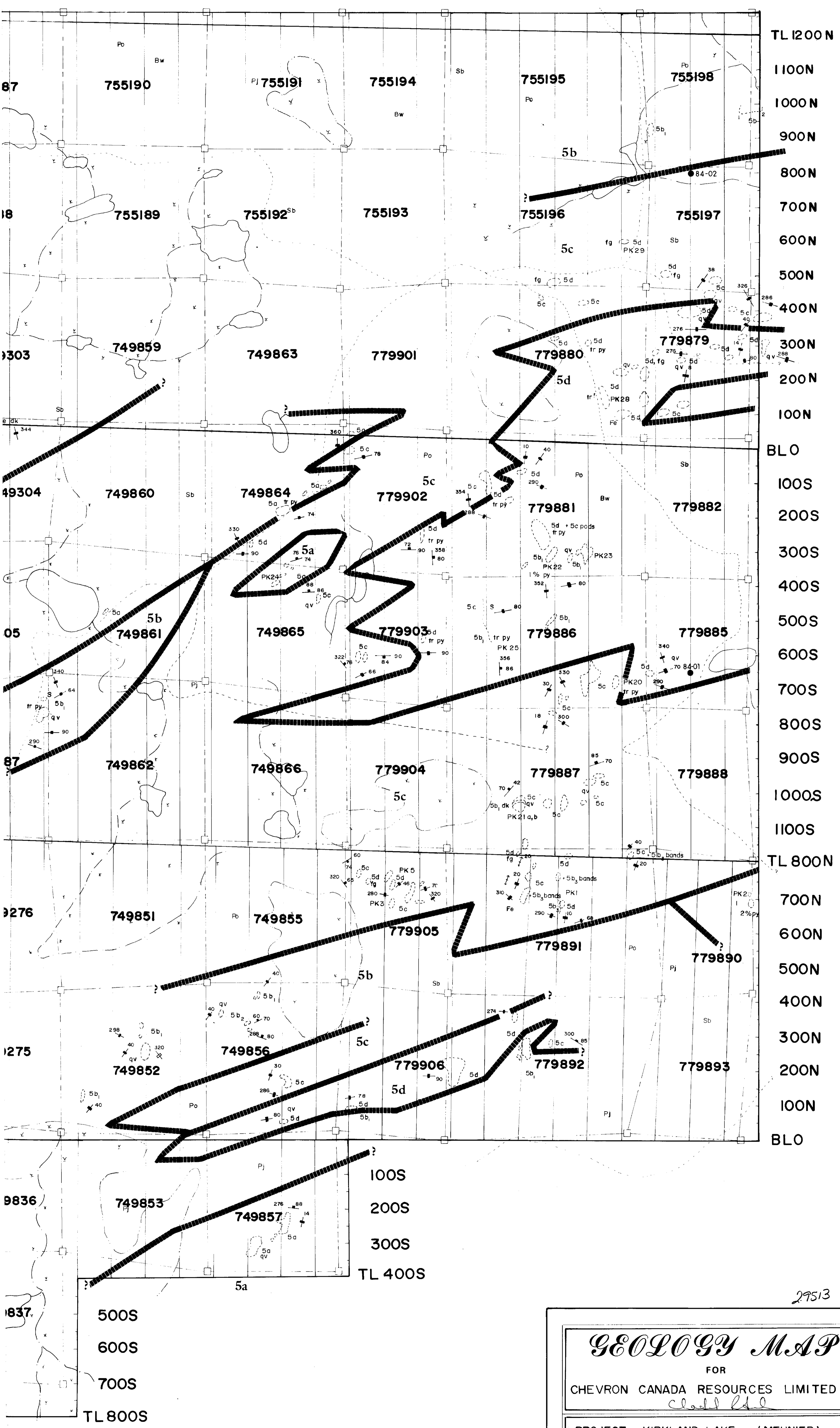
- Muskeg or swamp
- Trail, portage, winter road
- Boundary of rock outcrop
- Geological boundary, approximate
- Drill hole location approximate

- Jointing vertical
- Jointing inclined
- Occasional jointing
- Schistosity
- Quartz vein
- Pyritiferous mineralization
- Iron staining
- Representative sample
- Silicification
- Jack pine
- Poplar
- White birch
- Black spruce

BURT TWP.



L22 W L21 W L20 W L19 W L18 W L17 W L16 W L15 W L14 W L13 W L12 W L11 W L10 W L9 W L8 W L7 W L6 W L5 W L4 W L3 W L2 W L1 W L0



29513

GEOLOGY MAP	
FOR CHEVRON CANADA RESOURCES LIMITED	
<i>Clad Ltd</i>	
PROJECT KIRKLAND LAKE (MEUNIER)	
SURVEYED BY C. P.	DATE August 1986
DRAFTED BY C. P.	SCALE 1:5000
MEEGWICH SURVEYS REG'D	