

REPORT ON GEOLOGICAL SURVEY

BOBJO GROUP OF CLAIMS

MCNEIL TOWNSHIP

LARDER LAKE MINING DIVISION

PROVINCE OF ONTARIO.

by

F.J. Evelegh

RECEIVED
FEB 27 1986
MINING LANDS SECTION

Manville Canada Inc. Exploration Department

February 10, 1986 Matheson, Ontario.





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REPORT ON GEOLOGICAL SURVEY
BOBJO GROUP OF CLAIMS
MCNEIL TOWNSHIP
LARDER LAKE MINING DIVISION
PROVINCE OF ONTARIO.

Introduction:

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The following report describes the geological survey which was carried out on ten mining claims recorded in the name of Manville Canada Inc. and located in McNeil Township, Larder Lake Mining Division.

Cutting and chaining of the grid lines were contracted to Ingamar Exploration of Connaught, Ontario. This work was completed in August, 1981. Prior to the start of the geological survey the base and picket lines were brushed out and, where required, rechained. This work was carried out during the field season of 1985 by Company personnel based at the Matheson exploration office.

Geological mapping was conducted by R.F. Kaltwasser, Senior Fieldman with Manville Canada Inc., and the writer, assisted by Company personnel who stripped the moss from outcrops, prospected and traversed overburden-covered areas. This work was carried out, intermittently, during the field seasons of 1983 to 1985, inclusive.

Interpretation of the data and compilation of the report were the responsibility of the writer, Exploration Manager with Manville Canada Inc., based at Matheson, Ontario.

Property:

The claims surveyed are contiguous, are situated in McNeil Township and are numbered L-579574-75, 598863, 598874-75-76-77-78 and 609958-63.

These claims were staked during the latter part of February and early part of March and were recorded on March 5th and 13th, 1981. Transfer to Johns-Manville Canada Inc. was made in May, 1981. During

Property: (cont'd)

mid-1983 the Group was transferred to Manville Canada Inc.

Total acreage is approximately 400.

Location and Accessibility:

The Bobjo Group is located in the southeast section of McNeil Township in the Matachewan area of the Larder Lake Mining Division.

Access for the exploration programs conducted in 1981-82-83 was provided by a bush road, which branches off to the north from Highway No. 568, at a distance of fourteen miles west of Matachewan. The bush road is useable by truck for a distance of four miles from the highway - beyond this point access is by muskeg tractor along an old logging road for an additional six miles. The bush road passes two miles to the west of the property but is impassable due to the collapse of two bridges across the Whitefish River.

During the spring of 1984 the original road to the Goldyke property was bulldozzed and extended eastwards to Sherman Lake. This work was contracted to Leo Alarie & Sons of Matheson and was financed jointly by Argyle Resources and Manville Canada. Under dry conditions the road is suitable for use by four-wheeled drive vehicles, however, a muskeg tractor was used for the work described in this report. With the clearing of this road there is ready access to the Bobjo claims from gravelled logging roads in the Watabeag-Radisson Lakes area.

Topography:

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The area is one of slight relief with low-lying, easterly-trending clay and sand ridges interspersed with swampy areas covered by alder and cedar trees. A few narrow, sluggish streams were noted during the survey. Two lakes are located on the property but are too small for landing a float-equipped aircraft.

In the northeastern part of the property the timber is mainly

opography: (cont'd)

spruce and balsam with thick alder and hazel underbrush. The northwestern part, which was burned over in earlier years, is timbered with second growth spruce and jack pine.

Previous Work:

In 1919 the Geological Survey of Canada published Memoir 115 entitled "Geology of Matachewan District, Northern Ontario" compiled by H.C. Cooke. McNeil Township was covered by the mapping program, however, as no gold showings had been discovered at that time slight mention is made of the geology in the Report.

In the Thirty-Third Annual Report of the Ontario Department of Mines, Part 3, published in 1924, P.E. Hopkins discusses gold in McNeil Township on pages 37 to 39.

The Townships immediately to the south of McNeil are described in a Report on the "Bannockburn Gold Area" which was compiled by H.C. Rickaby and published in the Forty-First Annual Report of the Ontario Department of Mines in 1932. Map No. 41a, on a scale of one inch equals three-quarters of a mile, accompanies this Report.

In the Forty-Fourth Annual Report, Part 2, published in 1935, W.S. Dyer discusses gold prospects in McNeil Township on pages 48 to 50.

Aeromagnetic Maps (Radisson Lake Sheets) on a scale of one inch equals one-half and one mile have been published jointly by the O.D.M. and G.S.C. These plans have been used to aid in interpreting the ground magnetometer survey results.

Map No. 2205, the Timmins-Kirkland Lake Sheet of the Geological Compilation Series, on a scale of one inch equals four miles, also covers the area.

revious Work: (cont'd)

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In 1974 the Ontario Department of Mines issued Preliminary Map No. 1015 - Airborne Electromagnetic and Total Intensity Magnetic Survey for McNeil Township. This plan gives excellent detail over the Bobjo claims and is on a scale of one inch equals one-quarter mile.

The reports, maps and logs listed in the following paragraphs were obtained from the files of the Resident Geologist, Department of Natural Resources, in Kirkland Lake.

Report on Goldyke Mines Ltd. by Nelson Hogg, dated June 3rd, 1946. The work completed on the eastern part of the Goldyke property - Sherman Lake area and the claims to the south - is pertinent to the current program as this block is now part of Manville holdings.

A brief report on the Goldyke property, with assay data, compiled by F.H. Jowsey was also copied.

Geological maps of the Goldyke claims were prepared by W.H. Woods but cover only the Tom Fox Lake and West part of the original claims.

B.M. Arnott compiled a report on the Goldyke Mines Ltd. property during the latter part of 1946 which summarized the work completed to that time. This included the diamond drilling of 46 holes, totalling 8,375 feet - logs and a copy of the drill plan accompanied Arnott's report. Twelve of these holes were drilled on what is now Manville's Bobjo claims.

Since acquisition of the claims, by staking in 1981, Manville Canada has completed the following exploration work; -

 Line cutting, chaining and magnetometer surveying described in a report submitted for assessment work and dated February 17th, 1982.

Previous Work: (cont'd)

- 2) Electromagnetic surveying report dated February 16th, 1983.
- 3) Diamond drilling, plugger work, assaying and manual labour filed for assessment purposes on February 10th, 1984.
- 4) Access road clearing, power stripping, diamond drilling, plugger work and manual labour filed for assessment purposes on February 25th, 1985.
- 5) Diamond drilling filed for assessment work on February 10th, 1986. Note that geological mapping, prospecting and sampling of showings were carried out during the 1981 to 1985 field seasons.

Line Cutting and Chaining:

Base Line No. 1 was started from the No. 1 post of claim L-609959 and was cut and chained to the east and west to the claim boundaries - a total length of 4,570 feet. Base Line No. 2 was started from a point 2,900 feet north of Base Line No. 1 on Line 0+00 and was cut and chained to the east for a total length of 3,930 feet.

Right-angled offset lines, spaced at 300 foot intervals, were cut and chained to the north and south of these base lines to the boundaries of the Bobjo property. Marked pickets were established every 100 feet along these offset lines by chainage.

Total miles of base (1.61) and picket lines (13.73) cut and chained under contract to Ingamar Exploration was 15.34.

During the 1982 program, detailed grids were established by Company personnel over mineralized zones on the property. Picket lines were cut and chained midway between existing lines giving a 150 foot spaced grid. On Sheet No. 1 a total of 1.1 miles was cut and chained; on Sheet No. 2 - 0.4 miles.

Line Cutting and Chaining: (cont'd)

Prior to the start of the geological survey base and picket lines were brushed out, and where required, were rechained.

General Geology:

Examination of the library records in our Matheson and Asbestos offices failed to reveal any detailed geological data on McNeil Township. As a result the following "Table of Formations" has been taken from Page 5 of Geological Report 51 on the Matachewan Area compiled by H.L. Lovell and published by the O.D.M. in 1967.

Table of Formations

Cenozoic

Recent: Swamp and stream deposits. Pleistocene: Sand, gravel, clay.

Unconformity

PRECAMBRIAN

Proterozoic

Mafic Intrusive Rocks (Nipissing):
Diabase

Intrusive Contact

Huronian:

Cobalt Group (Gowganda Formation):

Argillaceous and arkosic quartzite, conglomerate,
argillite, arkose.

Unconformity

Archean

Mafic Intrusive Rocks (Matachewan):
Diabase, undifferentiated.

Intrusive Contact

Silicic Intrusive Rocks (Algoman):

Granite: granodiorite and granitic gneiss; syenite porphyry and coarse-grained syenite; syenite; mafic syenite, lamprophyre, quartz diorite and diorite.

Intrusive Contact

Ultramafic and Mafic Intrusive Rocks (Haileyburian):
Serpentinite, diorite.

Intrusive Contact

General Geology: (cont'd)

Sedimentary Rocks (Timiskaming):
Conglomerate; greywacke and interbedded argillite
and quartzite; arkose

Unconformity

Volcanic Rocks (Keewatin):

Basalt and andesite; bleached, silicified, sericitized volcanic rocks; andesite porphyry, tuff (banded, and massive types); agglomerate; rhyolite and dacite; carbonatized and amygdaloidal volcanic rocks; amphibolite.

The property is underlain by Keewatin greenstones grading from pillow lavas in the north to dioritic types in the south part of the claims. The trend is slightly north of east with near vertical dips. The formations have been intruded by felsitic and quartz-porphyry dikes. Geological Survey:

Detailed geological mapping was carried out on the Bobjo Group of claims, intermittently, during the field seasons of 1983 to 1985, inclusive. R.F. Kaltwasser and the writer conducted this work. The results of the survey are shown on the accompanying Geological and Topographic Plan on a scale of 1" = 200'. Geophysical survey data (ground and air), regional geology and aerial photographs were studied prior to compilation of this report. Rock types, structures and economic geology are described in the following paragraphs.

The map area is underlain by Archean intermediate to mafic metavolcanics comprised of andesites, basalts and diorites striking approximately N70°E and dipping steeply to the southeast. The andesites are massive, fine to medium grained and light to medium green in colour. Individual flows range in thickness from 50 to over 400 feet. Pillows are well formed and indicate that the tops face to the southsoutheast. Along the contacts with the felsite intrusives the volcanics have been altered to a grey-green carbonate rock.

Seological Survey: (cont'd)

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The basalts are massive, fine grained, dark green to black on fresh surface and weather grey-green to dark green. In the area to the north and west of Sherman Lake pillowed, amygdaloidal, vesicular and massive flows were mapped. Amygdules are a light grey-blue in colour and are approximately 1/4 inch in size. Both chlorite and carbonate alteration were observed adjacent to intrusives and cross structures.

In the central and southern sections of the property the basalts are massive, spherulitic, pillowed and locally magnetic. In general the pillows are poorly formed and no directional facings were recorded. The broad, up to 900 feet in thickness, mafic, metavolcanic flow mapped in the south parts of claims L-598876, 598877 and 609963 has been sharply outlined by a magnetic survey. Gamma values range from 2,000 to over 10,000 (the average varies from 3,000 to 4,000) with background over the non-magnetic andesites and basalts ranging from 1,000 to 1,500 gammas.

A dioritic flow has been mapped in the south part of the group and extends over a width of approximately 1,000 feet on claim L-579575. This volcanic is massive, medium to coarse grained and is mineralized with scattered, fine, disseminated pyrite.

A series of narrow interflows, moderately to intensely altered to carbonate, occur in the northeast part of claim L-579574 adjacent to felsitic intrusives and highly altered andesites. These rocks weather a dark brown. The amphiboles are altered to a light green colour in a light to medium grey matric of plagioclase feldspar and quartz.

Geological Survey: (cont'd)

Carbonate alteration zones extend outwards into the intermediate to mafic metavolcanics from the contacts of felsitic intrusives. This carbonatization varies in width from a few feet to over 200. Weathering is dark buff to cream coloured with the fresh surface being light grey to white. Only minor pyrite was noted in these carbonates. Quartz veins and stringers are generally barren of sulphide mineralization.

A green carbonate (fuchsite) horizon was mapped in a pit between two felsite dikes to the southeast of Sherman Lake. Minor pyrite-chalcopyrite mineralization was observed in quartz-filled fractures which strike at right angles to the northeast trend of the formations. A similar green carbonate outcrops on line 33+00E at 900 feet north of base line No. 2. Minor, disseminated pyrite occurs in this rock.

Broad carbonate alteration zones were mapped on claims L-579574 and 579575 and along the west boundary of the group on claim L-598878. This carbonatization is associated with the felsitic intrusives and northerly trending fault and shear zones. Cubic pyrite is disseminated throughout these carbonates. Quartz-calcite veining, mineralized with minor amounts of pyrite and chalcopyrite, was observed in these rocks.

Sill-like bodies of felsitic rocks intrude the volcanic formations on the Bobjo claims. These intrusives range in width from 3 feet to over 20 with strike lengths varying from a few feet to over 1,000. Maximum dimensions were observed over the felsites in the north parts of claims L-579574 and 579575. Strikes and dips are conformable with the flow rocks.

Weathering is light grey to buff to pink with rusty patches

Seological Survey: (cont'd)

due to pyrite mineralization along fractures or disseminated in the rock. The felsites are fine grained with only occasional quartz or feldspar phenocryst of minute size. Carbonate alteration is weak to moderate outward from the core. Pyrite mineralization in fine to coarse cubes occurs along fracture rims and in quartz stringers and veins. Quartz veining is at right angles to the strike of the intrusives with dips varying from 30° to the west to 10° to 60° to the northeast. Widths range from narrow stringers to veins over 12 inches. Calcite and siderite are associated with a few of the vein systems. Gold has been discovered associated with coarse pyrite within and along the margins of quartz-filled fractures in the felsites.

The large granitic body located in the northeast corner of McNeil Township may have been the source for the intrusives on the Bobjo claims.

Narrow lamprophyre dikes occur adjacent to and cutting the felsitic intrusives. In general, these dikes strike in a northeasterly direction and have steep dips. Surface weathering is dark grey to brown and has a felty texture. The mafic minerals are biotite and/or hornblende with feldspars and minor quartz. Weak carbonate alteration was noted in several outcrops. In drill core these dikes range from a dull grey to pinkish rose in colour.

Two outcrops of diabase were mapped in the east-central part of claim L-598876. This dike strikes slightly west of north and appears to have a near-vertical dip. The diabase is fine to medium grained and weathers a dull brownish-grey.

Structurally, the major regional feature in the area is the Montreal River fault located to the northeast of the property and striking

Geological Survey: (cont'd)

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in a northwesterly direction. As shown on Map No. 2205 of the Geological Compilation Series this lineament extends from Auld Township in the south to Carnegie in the north. The northerly to steeply northwesterly trending cross structures shown on the accompanying plan may be low-angled offshoots from the Montreal River fault.

Fault zones on the Bobjo Group are clearly defined by topographic data - ground features and aerial photographs - as well as geologic and magnetic survey information. These are late structures which have offset the metavolcanics and felsitic intrusives. Displacements vary from a few feet to several hundred. As previously mentioned, strong carbonate alteration zones are associated with some of these faults.

Economically, interesting gold mineralization has been discovered in pyritized, quartz-filled fractures zones at scattered showings along the sill-like felsitic intrusives. The gold appears to be related to both the coarse cubic pyrite and the degree of silicification.

To the southeast of Sherman Lake grab and chip samples from felsites to both the north of and along base line No. 2 assayed up to 0.06 ozs Au/ton. On claim L-579574 at 800 feet north of base line No. 1 on picket line 15W chip samples from trenches blasted across the intrusive assayed up to 0.19 ozs Au/ton over 10 feet. Drilling of this showing during 1983 with cross sectional holes (4 for 467') gave results up to 0.05 ozs over 3.0 feet.

Drilling of the intrusive along base line No. 2 to the south of Sherman Lake during 1984 (3 for 370') with north-south holes intersected sections which assayed up to 0.02 ozs Au/5.0 feet. Additional

Geological Survey: (cont'd)

drilling (3 for 295') carried out along the west boundary of claim L-598878 during 1985 failed to intersect any mineralization of interest.

Conclusions and Recommendations:

The results of the exploration work - geological, magnetic, electromagnetic surveys, prospecting, power stripping, plugger work and diamond drilling - completed to date show interesting gold values in a series of scattered showings in altered, felsitic intrusives on the Bobjo Group of claims.

Although the values are sub-ore it is recommended that additional work be conducted to further explore the largely overburdencovered sections of the felsites. This follow-up program should include power stripping, prospecting, detailed geological mapping, bulk sampling, soil geochemical surveying and diamond drilling. Note that due to the strike and dip of the mineralized quartz-filled fracture zones in the intrusives future drilling should be with holes drilled from east to west.

Submitted: February 10th, 1986

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by: F.J. Evelegh

Exploration Manager

Forelesh

LEGEND FOR DETAILED GEOLOGICAL MAPPING

Creek

Drill hole

Quartz veins

	Geological Legend				
5	Quarts diabase, diabase Granite 5a: Svenite 5b: Svenite	Asbestos Brecoiated Carbonated Chalcopyrite Disseminated Dark	Abbrevi Asb Brec'd Carb'd Cpy Diss Dk	Oxidized Pyrite Pyrrhotite Peridotite	Ox'd Py Po Perid P
4.C 4.D 3	Peridotite & Dunite (Serpentinized) Pyroxenite Rhyolite fragmental lava	Feldspar Foliated Grained - fine - medium - coarse Graphite Gneiss	Fp Fol'd F gr'd M gr'd C gr'd Graph Gn	Serpentinite Sheared Serpentinized Strongly Schistose Stringers Schist	Serp Sh'd Sarp'd Str Sch'se Strs Sch
2 2 2 2	Spherulitic lava 2c; Fragmental lava 2d; Tuff & Chert 2e; Talc-chlorite schist 2f; Amphibolite 2g. Greywacke la; Arkose lb; Quartzite lc; Argillite or shale ld; Conglomerate le; Iron formation lf; Chlorite schist lg.	Gneissic Hornblende Light Magnetite Moderately Medium Massive	Gn'o H'bl Lt Magn Mod Hed Mass	Sericitized Typical Thread vein Texture Trace Volcanics Weakly	Ser'd Typ T.V. Text Tr Vole
CB.	Carbonate rock.				
占	Direction in which lava flows face, indicated by shape of pillows	Bush road	c	cological Contact	
(007s) *	Outcrop Swamp or muskeg	High ground		wamp border	- definite
<u> </u>	Scarp	Shaft		hear sone	

Land American

Many Mary

- definite

Attitudes - bedding - shearing - jointing

Pit or trench

Esker



Mining Lands Section

File No 28925

Control Sheet

-		TYPE OF	SURVEY		OPHYSICAL GEOLOGICAL GEOCHEMICAL EXPENDITURE	
MINING	LANDS	COMMENT	S:	-		
					•	
			-			
Do				Signa	ture of Assessor w/9/86	•

Date

April 18, 1986

Your File: 68/86 Our File: 2.8925

Mining Recorder
Ministry of Northern Development and Mines
4 Government Road East
Kirkland Lake, Ontario
P2N 1A2

Dear Madam:

ş.;

RE: Notice of Intent dated March 26, 1986 Geological Survey on Mining Claims L 579574, et al, in McNeil Township

The assessment work credits, as listed with the above-mentioned Notice of Intent, have been approved as of the above date.

Please inform the recorded holder of these mining claims and so indicate on your records.

Yours sincerely,

J.C. Smith, Supervisor Hining Lands Section

Whitney Block, 6th Floor Queen's Park Toronto, Ontario N7A 1W3

Telephone: (416) 965-4888

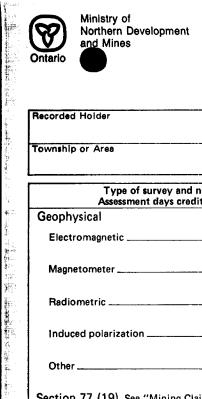
SH/mc

cc: Manville Canada Inc P.O. Box 610 Matheson, Ontario POK 1NO Attention: F.J. Evelegh

> Resident Geologist Kirkland Lake, Ontario

Encl.

Mr. G.H. Ferguson Mining & Lands Commissioner Toronto, Ontario



Technical Assessment Work Credits

2.8925 Mining Recorder's Report of Work No. Date March 26, 1986 68/86

Recorded Holder	
	LE CANADA INC
Township or Area	
Type of survey and number of	TOWNSHIP
Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic	_ days
Magnetometer	_ days
Radiometric	_ days
Induced polarization	_ days
Other	_ days
Section 77 (19) See "Mining Claims Assessed" col-	umn
Geological20	
Geochemical	598863 598875 to 878 inclusive 609958-63
Man days Airborn	
Special provision X Groun	d 🔀
Credits have been reduced because of partial coverage of claims.	
Credits have been reduced because of correction to work dates and figures of applicant.	ons
pecial credits under section 77 (16) for the foll	owing mining claims
10 DAY	<u>'S</u>
L 5988	374
o credits have been allowed for the following r	mining claims
not sufficiently covered by the survey	insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geologocal - 40; Geochemical - 40; Section 77(19) - 60.

これの、公司の連合の職員を行う事業を行うでし、人職の連合のでは、日本のでは、それの主義を持ちい



april 14/86

Ministry of Northern Development and Mines

March 26, 1986

Your File: 68/86 Our File: 2.8925

Mining Recorder
Ministry of Northern Development and Mines
4 Government Road East
Kirkland Lake, Ontario
P2N 1A2

Dear Sir:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

For further information, if required, please contact Mr. R.J. Pichette at (416) 965-4888.

Yours sincerely,

J.C. Smith, Supervisor Mining Lands Section

Whitney Block, 6th Floor Queen's Park Toronto, Ontario M7A 1W3

.SH/mc

Encl.

cc: Manville Canada Inc P.O. Box 610 Matheson, Ontario POK 1NO Attention: F.J. Evelegh Mr. G.H. Ferguson Mining & Lands Commissioner Toronto, Ontario



Ministry of Northern Development and Mines

Notice of Intent for Technical Reports

March 26, 1986

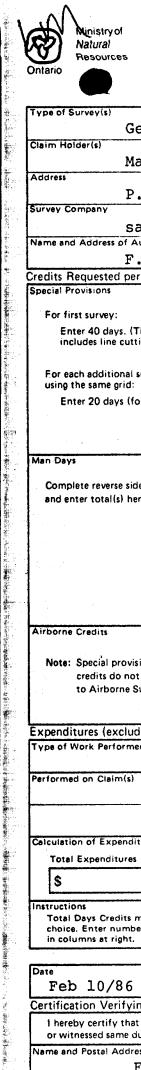
2.8925/68/86

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on the record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted directly to the Land Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.



Report of Work

(Geophysical, Geological, Geochemical and Expenditures) Instructions: - Please type or print.
- If number of mining claims traversed exceeds space on this form, attach a list.
Note: - Only days credits calculated in the

he ed ns.

180x	Note: -	Only days credits calculated in the "Expenditures" section may be entered
lining Act	_	in the "Expend. Days Cr." column Do not use shaded areas below.

Type of Survey(s)		·····			Township	or Area		
Geolog	gical					McNeil		
Claim Holder(s) Manszi	lle Canada I	n.C					's Licence No. -1330	,
Address	LIE Callada II	iic .				1 1.	-1330	
P.O. F	30x 610, Ma	theson	, Ont	tario PC	K INO			
Survey Company			· · · · · · · · · · · · · · · · · · ·	Date of Survey	(from & to)	1	Total Miles of line	Cut
	as above			22 NS. 19	3. Bay	1.Q. v8.5	16.84	
Name and Address of Author (o						•		
F.J. F Credits Requested per Each (Evelegh, P.O					rio PO		
Special Provisions		Days per		laims Traversed (lining Claim	Expend.		nce) ning Claim	Expend.
	Geophysical	Claim	Prefix	Number	Days Cr.	Prefix	Number	Days Cr.
For first survey: Enter 40 days. (This	- Electromagnetic		L	579574	1			
includes line cutting)	- Magnetometer		- 14 Proper 200	579575				
For each additional survey:	- Radiometric		i de mariamento de la companio del companio del companio de la companio del companio del companio de la companio de la companio de la companio del companio d	598863				
using the same grid: Enter 20 days (for each)	- Other		transfer Tarretta	598874				
	Geological		Santa Santa Santa Santa Santa Santa	598875				
	Geochemical		presidentalis.	598876				
Man Days	Geophysical	Days per Claim	or deputation	598877		77		
Complete reverse side and enter total(s) here	- Electromagnetic		Andrew Line (1944)	598878				
	- Magnetometer		نىرلىنىدۇرى <u>.</u>	609958],			
	- Radiometric		230	609963				
	- Other							
	Geological	20	a management			-	· · · · · · · · · · · · · · · · · · ·	
	Geochemical							
Airborne Credits		Days per Claim		D E	CEIV			
Note: Special provisions	Electromagnetic			R.	OF T			
credits do not apply to Airborne Surveys.	Magnetometer			F1	B 2 / 1	986		
	Radiometric		A.					
Expenditures (excludes pow	er stripping)	L		MINING	LANDS	SECTION		-
Type of Work Performed				2:00				
				िहा, ४७५ ध्यु	12.5	1212		
Performed on Claim(s)		İ	-					
						333		
					-	1.50		
Calculation of Expenditure Day	s Credits	Total		<u> </u>		1 3	1	
Total Expenditures		s Credits					<u> </u>	
\$	_] ÷ [15] = [_						nber of mining vered by his	10
Instructions Total Days Credits may be a	oportioned at the claim h	nolder's				report of	work.	
choice. Enter number of day in columns at right.			Total Day Recorded	For Office Use (only 19711988	Mining Re	corder (/
Desa Ipo	earded Heider or Asent (Signatura			has Becorded		190101	•
Feb 10/86 Recorded Holder or Agent (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 Per	son Certifying Evelegh, P.	O. Bo	x 610	Matheson	, Ont	POK	INO	
1.0.			/	Date Certified			y (Signature)	
1362 (81/9)			···	Feb 10	, 1986	1 XX	Queles	<u>K</u>
1002 (01/0/						•	~	

File: 2.8925 March 7, 1986 Manyille Canada Inc P.O. Box 610 Matheson, Ontario POK 1NO Dear Sirs: Geological Survey submitted on Mining Claims L 579574, et al, in McNeil Township With reference to the above-described submission, please complete the enclosed "Man-days Breakdown" form (in duplicate) and return them to this office, quoting file 2.8925. for further information, please contact Susan Hurst at (416) 965-4888. Yours sincerely, J.C. Smith, Supervisor Mining Lands Section Whitney Block, 6th Floor Queen's Park Toronto, Ontario Missa Market State of the State M7A 1W3 Telephone: (416) 965-4888 SH/mc cc: Mining Recorder Kirkland Lake, Ontario #68/86 Encl.

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五部實工

Ontario

Ministry of Natural Resources

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s)	Geologic	cal		
Township or Area	McNeil		_ _{MINI}	ING CLAIMS TRAVERSED
Claim Holder(s)	Manville	e Canada Inc.		List numerically
	P.O. Box	x 610, Matheson, Ont.	_	
Survey Company	same as	above	 	57.957.4 prefix) (number)
Author of Report	F.J. Eve	elegh	_ '	prefix) (number) 579575
	•	, Matheson, Ont. POK]	ИО	
Covering Dates of Sur	vey <u>22/8/</u> 8	83 to 10/2/85 (linecutting to office)	_	598863
Total Miles of Line Co	nt 16.8			598874 *
Total Minos O			_	598875 •
SPECIAL PROVISI	ONS	DAYS		
CREDITS REQUES		Geophysical per claim		598876 •
		-Electromagnetic		598877
ENTER 40 days (in		-Magnetometer		598878 •
line cutting) for firs survey.	t	-Radiometric		
ENTER 20 days for	r each	-Other		60.99.58.
additional survey us		Geological 20		609963 *
same grid.		Geochemical		
AIRBORNE CREDIT	S (Special provis	sion credits do not apply to airborne surveys		
	_ _Electromagn	netic Radiometric		
•0		lays per claim)	<u></u>	
DATE: Feb 10/86	SIGNA	TURE: There's	<u> </u>	
		Author of Report or Agent		1044044040
)
Res.,Geol	Onalif	ications <u>63</u> .1047	•••••	
Previous Surveys	Xuann	cations	1	<u></u>
File No. Type	Date	Claim Holder		
			7	······································
	***************************************	······	· [\]	· · · · · · · · · · · · · · · · · · ·
		,	"	
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		· · · · · · · · · · · · · · · · · · ·	"	
	1		" }	
	1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	" TOTAI	L CLAIMS 10

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS -- If more than one survey, specify data for each type of survey

N	umber of Stations	Number of	Readings	
	tation interval		_	
	rofile scale	•	_	
	ontour interval			
· ·	Instrument			
MAGNETIC	Accuracy - Scale constant	The state of the s		
	Diurnal correction method		· · · · · · · · · · · · · · · · · · ·	
MA	Base Station check-in interval (hours)			
•	Base Station location and value			
10	Instrument			
KET	Coil configuration			
AGI	Coil separation		***************************************	
O	Accuracy			
IR	Method:		☐ In line	☐ Parallel line
ELECTROMAGNETIC	Frequency	(specify V.L.F. station)		* · · · · · · · · · · · · · · · · · · ·
Ш	Parameters measured			
	Instrument		·	
	Scale constant		· · · · · · · · · · · · · · · · · · ·	
AVITY	Corrections made			
YY.				
GR	Base station value and location			
			10 marks 10	
	Elevation accuracy			
	Instrument			
	Method Time Domain	☐ Fre	quency Domain	
	Parameters - On time	Fre	quency	
건	- Off time	Ran	nge	
M	- Delay time			
IST	- Integration time			
RESISTIVITY	Power			
_	Electrode array			
	Electrode spacing			
	Type of electrode			

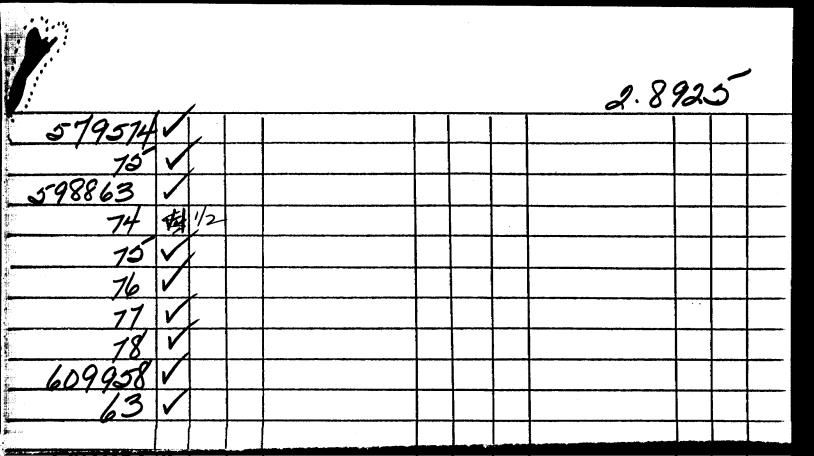
INDUCED POLARIZATION

SELF POTENTIAL	
Instrument	Range
Survey Method	
Corrections made	
Page 1	
RADIOMETRIC	
Instrument	
Values measured	
Energy windows (levels)	
Height of instrument	Background Count
	· ·
Overburden	
(typ	oe, depth — include outcrop map)
OTHERS (SEISMIC, DRILL WELL LOGGING Type of survey	,
Instrument	
Accuracy	
Parameters measured	
Additional information (for understanding resu	ults)
AIRBORNE SURVEYS	
Type of survey(s)	
Instrument(s)	
	cify for each type of survey)
Accuracy(spe	
Aircraft used	
Sensor altitude	
Navigation and flight path recovery method	
A in any Cambridge of the Cambridge of t	
	Line Spacing
Miles flown over total area	Over claims only

100 mm to 100 mm to 100 mm

GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken			
Total Number of Samples	ANALYTIC	AL METHODS	3
Type of Sample(Nature of Material)	Values expressed in:	per cent	
Average Sample Weight		p. p. m.	
Method of Collection		p. p. b.	
	Cu, Pb, Zn, Ni, Co	Ag, Mo,	As,-(circle)
Soil Horizon Sampled	Others		· · · · · · · · · · · · · · · · · · ·
Horizon Development			tests)
Sample Depth	Extraction Method		
Terrain	Analytical Method		
	Reagents Used		
Drainage Development			
Estimated Range of Overburden Thickness			
	Analytical Method		
	Reagents Used	<u> </u>	
SAMPLE PREPARATION	Commercial Laboratory	1	tests
(Includes drying, screening, crushing, ashing)	Name of Laboratory_		
Mesh size of fraction used for analysis	Extraction Method		
	Analytical Method		
	Reagents Used		
	General		
General			



FASKEN TWP M.280 [661777 | 661773 | 6617 | 75 | 661772 | 661771 | 867571 | 667577 867573 1867575 867574 1 ROBERTSON TWP M.310 E7953 679636 Skooddas Lone . 2M 200

CLEAVER

HINCKS TWP M.223

NOTES

400 surface rights reservation along the shores of all

LEGEND

PATENTED LAND	
PATENTED FOR SURFACE RIGHTS ONLY	•
LEASE	(1)
LICENSE OF OCCUPATION	LO.
CHOWN LAND SALLS	0.3
LOCATED LAND	1.00,
CANCELLED	C
MINING HIGHTS ONLY	мас
SURFACE RIGHTS ONLY	SRO
HIGHWAY & ROUTE NO.	== (7)==
RUADS	programme and the programme an
TRAILS	
RAILWAYS	St.
POWER LINES	
MARSH OR MUSKEG	
MINES	X

funed only with summer resort locations or when space is limited

TOWNSHIP OF

FEB 1 9 1986

DISTRICT OF TIMISKAMING

LARDER LAKE MINING DIVISION

SCALE: 1 INCH 40 CHAINS (1/2 MILE)

PLAN'NO., DATE 18 2 71

ONTARIO

MINISTRY OF MATURAL RESOURCES

ALL SOLD SACTORS BRANCH

ARGYLE TWP M.203

