



Interim Report on some
Rock Geochemical Analyses
D.D.H. TB83-1
Tarbush Lode Mining Limited
Westblock - Echo Township

*See Drill Hole
file for log.*

PATRICIA MINING DIV.
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MINING LANDS SECTION



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ADDENDA:

- 1) X-Ray Lab. results
126 TB83-1 samples

- 2) Various chemical analyses -
variable sources and variety
of rocktypes.

SUMMARY

A total of 126 samples from rhyolitic to quartz porphyritic intervals from drillhole TB83-1 were geochemically analysed for gold, silver, mafic oxides and minor elements.

These felsic units contain extremely low gold and silver values and should be considered of no economic interest.

INTRODUCTION

The 35 claims, which comprise the Westblock of Tarbush Lode Mining property, lies on strike to the west of Camreco's gold deposit where drilling has indicated 303,877 tons of probable ore with an uncut grade of .28 oz/ton Au.

In 1981, Tarbush Lode drilled 7 holes on the Westblock claims to test a granodiorite dike of some 6000 feet in strikelength. Results obtained in this drilling indicated the dike to be of limited width and no significant gold values were obtained (best assays are in the order of .002 oz/ton Au.

In 1983, Tarbush drilled 3 holes (TB83-1 to TB83-3) on the Westblock claim No. 437009 to verify "reported" results obtained in drilling by Bride Echo Mines in 1950. These Bride holes intersected a southwest striking unit of rhyolite bordered by a "band" of granodiorite containing gold values: details of these values are not known to the author.

Although not typically characteristic of the mineralized zones in the general area, hole TB83-1 was thought to be the best, still available hole for relogging and resampling for the purpose of geochemical investigations in order to establish certain geochemical parameters. These parameters are to serve as a basis for further rock geochemical exploration scheduled in the near future for the West and

East blocks of the Company's property. (Presently samples are being prepared from granodioritic material obtained in the recent drilling on the Company's far eastern claims, the former Eaglelund property.)

Hole TB83-1, drilled at 50⁰, bearing easterly, total length 492 feet, intersected several zones of rocks which have been described by J. Dadds, geologist for Goldlund Mines, as rhyolite to variable rhyolite with occasional minor pyrite.

LOCATION

The 35 Westblock, Echo Township claims of Tarbush Lode Mining Limited are virtually all situated immediately west of kathlyn Creek, with a portion of the western boundary being the McAree-Laval township line.

The southeast corner of this block lies within 500 feet north of the paved highway 72, connecting Dinorwic and Sioux Lookout; the distance to Dinorwic is approximately 14 miles, whereas the distance to the Goldlund Mines turn off is 2.8 miles - see figure 1.

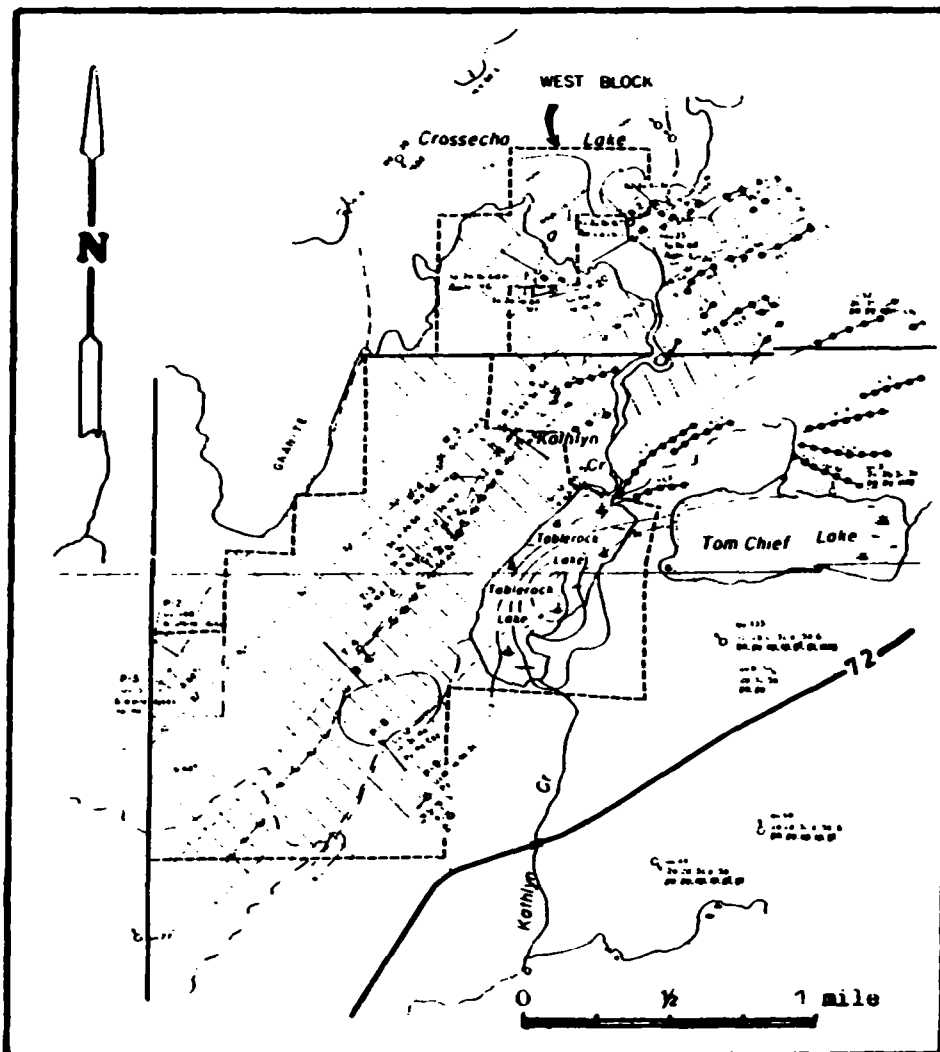


FIGURE 1

DISCUSSION

Sample populations in the order of 50 to 100 samples per lithological unit are required for statistical treatment. As such, three of the rhyolitic units, intersected by drillhole TB83-1 were sampled extensively; details are as follows.

From To	Description	No. of Samples	Sample Number	Sample Length
154-248	sheared variable rhyolite	92	3800-3892	1 foot
248-257	mafic volcanics	9	3893-3901	1 foot
257-266	granodiorite-quartzporphyry	9	3902-3910	1 foot
266-268	mafic volcanics	2	3911-3912	1 foot
324-342	weakly sheared granodiorite-quartzporphyry	14	3913-3926	1 and 2½ feet

In reviewing the results of the analyses - see addendum - it becomes clear that gold and silver values are negligible: in the first variable rhyolitic interval a mere 4 samples exceeded the detection limit for gold and ranged from 3ppb to 12ppb. This prohibits statistical treatment of the results.

However, on a less mathematical basis some conclusions can be drawn from the analyses

- 1) Background values for felsic volcanics are lower than 2ppb for gold and less than .5 for silver.

Discussion cont'd

.6

- 2) Background values for the mafic (to intermediate?) metavolcanics are in the order of 2 ppb.
- 3) By comparing Page's (1984, table 4, pg 152) Chemistry of felsic metavolcanics, the author is inclined to place the sampled intervals of drillhole TB83-1 in the category of rhyolites to rhyolitic lithic tuffs. As such, these intervals (with the extremely low gold values) should be considered of no further economical interest.

General:

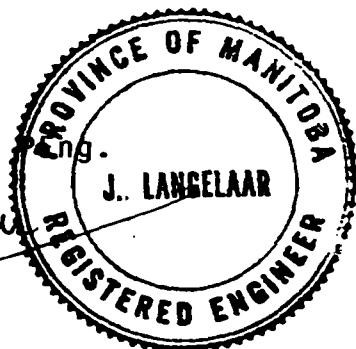
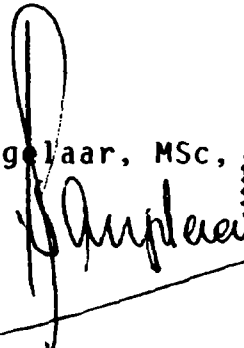
This lithochemical project is the first step in a scheduled larger scale geochemical exploration program on the West and East block claims of Tarbush Lode Mining.

Conclusions drawn to-date ought to be treated with caution as comparable material from elsewhere in the area is still lacking. Moreover sample acquisition from a characteristic suite of rocks from Goldlund Mines has been set back due to the closure of the mine earlier this year.

Several chemical analyses of a variety of rocktypes have been enclosed for use at a later date and for comparative purposes.

Dryden, December 5, 1985

J. Langelaar, MSc,



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1984

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The Geology of Gold in Ontario; Ontario Geological Survey; MP 110.

Jensen, L.S. and Langford, F.F. 1985

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- Szetu, S.S. 1985
Report on mining claims of Tarbush Lode Mining Limited,
Townships of Echo, McAree and Pickerel; district of
Kenora, Patricia Mining Division, Ontario, Canada.

X-RAY ASSAY LABORATORIES LIMITED
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PHONE 416-445-5755 TELEX 06-986947

CERTIFICATE OF ANALYSIS

TO: TARBUSH LODE MINING COMPANY
ATTN: P. BROADHURST
4000 YONGE STREET SUITE 411
TORONTO, ONTARIO
M4N 2N9

CUSTOMER NO. 625
DATE SUBMITTED
24-OCT-85

REPORT 26145

REF. FILE 21669-F3

126 W. CORES

WERE ANALYSED AS FOLLOWS:

	METHOD	DETECTION LIMIT
AU PPB	FADCP	2.000
WRMAJ %	WR	0.010
WRMIN PPM	WR	10.000
AG PPM	DCP	0.500

DATE 13-NOV-85

X-RAY ASSAY LABORATORIES LIMITED
CERTIFIED BY 

SAMPLE	AU PPS	AG PPM
3801-A1	<2	<0.5
3802-A1	<2	<0.5
3803-A1	<2	<0.5
3804-A1	<2	<0.5
3805-A1	<2	<0.5
3806-A1	<2	<0.5
3807-A1	<2	<0.5
3808-A1	<2	<0.5
3809-A1	<2	<0.5
3810-A1	<2	<0.5
3811-A1	<2	<0.5
3812-A1	<2	<0.5
3813-A1	<2	<0.5
3814-A1	<2	<0.5
3815-A1	<2	<0.5
3816-A1	<2	<0.5
3817-A1	<2	<0.5
3818-A1	<2	<0.5
3819-A1	<2	<0.5
3820-A1	<2	<0.5
3821-A1	<2	<0.5
3822-A1	<2	<0.5
3823-A1	<2	<0.5
3824-A1	<2	<0.5
3825-A1	<2	<0.5
3826-A1	<2	<0.5
3827-A1	<2	<0.5
3828-A1	<2	<0.5
3829-A1	6	<0.5
3830-A1	3	<0.5
3831-A1	<2	<0.5
3832-A1	<2	<0.5
3833-A1	<2	<0.5
3834-A1	<2	<0.5
3835-A1	<2	<0.5
3836-A1	<2	<0.5
3837-A1	<2	<0.5
3838-A1	<2	<0.5
3839-A1	<2	<0.5
3840-A1	<2	<0.5
3841-A1	<2	<0.5
3842-A1	<2	<0.5
3843-A1	<2	<0.5
3844-A1	<2	<0.5
3845-A1	<2	<0.5
3846-A1	<2	<0.5
3847-A1	12	<0.5
3848-A1	6	<0.5
3849-A1	<2	<0.5
3850-A1	<2	<0.5

VARIABLE RHYOLITES

SAMPLE	AU PPM	AG PPM
3851-A1	<2	<0.5
3852-A1	<2	<0.5
3853-A1	<2	<0.5
3854-A1	<2	<0.5
3855-A1	<2	<0.5
3856-A1	<2	<0.5
3857-A1	<2	<0.5
3858-A1	<2	<0.5
3859-A1	<2	<0.5
3860-A1	<2	<0.5
3861-A1	<2	<0.5
3862-A1	<2	<0.5
3863-A1	<2	<0.5
3864-A1	<2	<0.5
3865-A1	<2	<0.5
3866-A1	<2	<0.5
3867-A1	<2	<0.5
3868-A1	<2	<0.5
3869-A1	<2	<0.5
3870-A1	<2	<0.5
3871-A1	<2	<0.5
3872-A1	<2	<0.5
3873-A1	<2	<0.5
3874-A1	<2	<0.5
3875-A1	<2	<0.5
3876-A1	<2	<0.5
3877-A1	<2	<0.5
3878-A1	<2	<0.5
3879-A1	<2	<0.5
3880-A1	<2	<0.5
3881-A1	<2	<0.5
3882-A1	<2	<0.5
3883-A1	<2	<0.5
3884-A1	<2	<0.5
3885-A1	<2	<0.5
3886-A1	<2	<0.5
3887-A1	<2	<0.5
3888-A1	<2	<0.5
3889-A1	<2	<0.5
3890-A1	<2	<0.5
3891-A1	<2	<0.5
3892-A1	<2	<0.5
3893-A1	3	<0.5
3894-A1	<2	<0.5
3895-A1	<2	<0.5
3896-A1	<2	<0.5
3897-A1	2	<0.5
3898-A1	<2	<0.5
3899-A1	<2	<0.5
3900-A1	<2	<0.5

VARIABLE RHYOLITES

MAFIC METAVOLCANICS

SAMPLE	AU PPB	AG PPM	
3901-A1	3	<0.5	Mafic metavolcanics
3902-A1	<2	<0.5	
3903-A1	<2	<0.5	
3904-A1	<2	<0.5	
3905-A1	<2	<0.5	Granodiorite - quartz porphyry
3906-A1	<2	<0.5	
3907-A1	<2	<0.5	
3908-A1	<2	<0.5	
3909-A1	<2	<0.5	
3910-A1	<2	<0.5	
3911-A1	<2	<0.5	Mafic metavolcanics
3912-A1	<2	<0.5	
3913-A1	<2	<0.5	
3914-A1	<2	<0.5	
3915-A1	<2	<0.5	
3916-A1	<2	<0.5	Granodiorite - quartz porphyry
3917-A1	<2	<0.5	
3918-A1	<2	<0.5	
3919-A1	<2	<0.5	
3920-A1	<2	<0.5	
3921-A1	<2	<0.5	
3922-A1	<2	<0.5	
3923-A1	<2	<0.5	
3924-A1	<2	<0.5	
3925-A1	<2	<0.5	
3926-A1	<2	<0.5	

X	X	RRRRR	A	LL
XX	XX	RR RR	AAA	LL
XX	XX	RR RR	AA AA	LL
XXX		RR RR	AA AA	LL
XXX		RRRRR	AAAAAAA	LL
XX	XX	RR RR	AA AA	LL
XX	XX	RR RR	AA AA	LLLLLLL
X	X	RR R	AA AA	LLLLLLL

XRF - WHOLE ROCK ANALYSIS

TARBUSH LOBE MINING COMPANY
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 M4N 2N9

CUSTOMER No. 625

DATE SUBMITTED
 24-OCT-85

REPORT 26145

REF. FILE 21669

DATE REPORTED 18-NOV-85

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

SAMPLE	SI02	AL203	CAO	MO	NA2O	K2O	FE2O3	MNO	TI02	P2O5	CR2O3	LOI	SUM
3801-A1	70.6	12.9	3.62	0.96	1.90	2.38	3.16	0.08	0.27	0.04	<0.01	4.16	100.2
3802-A1	74.2	12.9	2.32	0.57	2.49	2.31	1.97	0.04	0.13	0.04	<0.01	2.70	99.8
3803-A1	75.9	13.1	1.02	0.49	2.06	2.84	1.74	0.01	0.15	0.04	<0.01	2.31	99.8
3804-A1	74.1	12.8	2.17	0.47	4.85	1.29	1.99	0.04	0.13	0.04	<0.01	2.31	100.3
3805-A1	74.5	12.6	2.30	0.38	5.16	1.14	1.65	0.04	0.14	0.04	0.01	2.23	100.3
3806-A1	74.8	12.6	2.11	0.38	4.69	1.32	1.57	0.03	0.14	0.03	0.01	2.16	99.9
3807-A1	74.4	13.8	1.63	0.39	4.62	1.84	1.60	0.02	0.15	0.04	0.01	2.00	100.6
3808-A1	75.5	12.7	1.77	0.46	3.99	1.71	1.79	0.03	0.13	0.04	<0.01	2.31	100.6
3809-A1	74.4	12.9	2.15	0.41	4.26	1.66	1.86	0.04	0.14	0.04	0.01	2.39	100.4
3810-A1	74.3	12.8	1.90	0.39	5.36	1.19	1.83	0.03	0.14	0.04	<0.01	2.23	100.3
3811-A1	74.2	12.6	2.33	0.49	3.28	2.08	1.91	0.04	0.14	0.04	<0.01	2.77	100.0
3812-A1	73.8	13.6	1.47	0.56	2.44	2.76	1.96	0.02	0.14	0.04	<0.01	2.62	99.6
3813-A1	75.2	13.5	1.45	0.49	3.10	2.26	1.69	0.03	0.15	0.04	<0.01	2.39	100.4
3814-A1	75.2	14.3	0.68	0.47	1.27	3.64	1.64	0.01	0.15	0.04	<0.01	2.31	99.9
3815-A1	74.7	13.2	2.32	0.40	3.00	2.34	1.55	0.03	0.14	0.04	<0.01	2.85	100.7
3816-A1	74.0	12.9	2.33	0.40	3.58	2.05	1.67	0.03	0.13	0.03	<0.01	2.62	99.9
3817-A1	73.5	13.0	2.68	0.49	3.54	2.02	1.87	0.04	0.14	0.03	<0.01	2.85	100.3
3818-A1	74.0	13.3	1.94	0.43	1.97	3.07	1.57	0.03	0.14	0.04	<0.01	2.85	99.5
3819-A1	73.3	12.6	3.12	0.45	3.16	2.14	1.76	0.04	0.13	0.04	<0.01	3.16	100.0
3820-A1	74.7	13.1	1.73	0.35	4.42	1.72	1.56	0.02	0.14	0.04	<0.01	2.23	100.1
3821-A1	73.5	13.0	2.44	0.37	4.93	1.42	1.70	0.04	0.14	0.04	<0.01	2.47	100.2
3822-A1	74.7	13.1	1.94	0.29	4.97	1.54	1.42	0.02	0.14	0.04	0.01	2.16	100.4
3823-A1	74.0	14.0	1.31	0.38	4.25	2.10	1.94	0.02	0.15	0.04	<0.01	1.85	100.2
3824-A1	74.2	13.0	1.81	0.37	5.23	1.31	1.88	0.03	0.14	0.04	<0.01	1.85	100.0
3825-A1	73.7	13.1	2.04	0.35	5.73	1.10	1.83	0.04	0.14	0.03	0.01	2.00	100.2
3826-A1	73.6	13.0	2.11	0.40	5.94	0.88	2.01	0.04	0.14	0.04	<0.01	1.93	100.2
3827-A1	73.6	13.0	1.80	0.40	5.48	1.09	2.22	0.04	0.14	0.04	<0.01	1.93	99.8
3828-A1	72.3	12.9	2.93	0.41	5.24	1.21	2.11	0.04	0.13	0.04	<0.01	2.85	100.2
3829-A1	74.5	13.4	1.56	0.29	5.56	1.35	1.49	0.02	0.15	0.04	0.01	1.93	100.4
3830-A1	74.5	13.3	1.62	0.31	4.90	1.58	1.69	0.02	0.14	0.04	<0.01	2.08	100.3

SAMPLE	SI02	AL203	CAO	MGO	NA2O	K2O	FE2O3	MNO	TIO2	P2O5	CR2O3	LOI	SUM
3831-A1	74.0	13.2	1.82	0.35	4.56	1.67	1.95	0.02	0.15	0.04	<0.01	2.16	100.0
3832-A1	73.7	13.4	2.20	0.29	3.60	2.23	1.64	0.03	0.14	0.04	<0.01	2.54	99.9
3833-A1	73.8	13.4	2.16	0.28	3.72	2.24	1.53	0.03	0.14	0.04	<0.01	2.47	99.9
3834-A1	73.7	13.4	2.29	0.29	3.59	2.22	1.74	0.03	0.14	0.04	<0.01	2.47	100.0
3835-A1	74.5	13.5	1.87	0.26	3.63	2.23	1.58	0.02	0.15	0.04	<0.01	2.08	99.9
3836-A1	73.8	13.3	2.13	0.29	3.49	2.23	1.73	0.02	0.14	0.04	<0.01	2.62	99.9
3837-A1	74.9	13.2	2.02	0.28	4.04	1.92	1.44	0.02	0.15	0.04	<0.01	2.23	100.3
3838-A1	72.8	13.0	3.44	0.29	3.40	2.20	1.63	0.03	0.14	0.04	<0.01	3.47	100.5
3839-A1	73.7	13.3	2.70	0.28	3.26	2.39	1.49	0.03	0.15	0.04	<0.01	2.85	100.3
3840-A1	72.5	13.3	3.34	0.30	2.45	2.79	1.59	0.04	0.14	0.04	<0.01	3.54	100.1
3841-A1	73.0	12.9	3.11	0.34	2.91	2.32	2.06	0.03	0.14	0.04	<0.01	3.00	99.9
3842-A1	69.7	12.4	5.26	0.34	2.95	2.18	1.93	0.06	0.13	0.04	<0.01	4.70	99.8
3843-A1	74.7	13.3	2.00	0.25	3.70	2.14	1.53	0.02	0.15	0.04	<0.01	2.23	100.1
3844-A1	74.8	13.5	1.87	0.27	3.59	2.29	1.70	0.02	0.14	0.04	<0.01	2.31	100.6
3845-A1	73.9	13.5	2.61	0.29	3.26	2.36	1.61	0.03	0.15	0.04	<0.01	2.85	100.7
3846-A1	74.0	13.6	2.17	0.30	3.04	2.53	1.66	0.02	0.14	0.04	<0.01	2.47	100.1
3847-A1	73.0	13.1	3.47	0.32	3.20	2.18	1.82	0.03	0.14	0.04	<0.01	3.31	100.7
3848-A1	73.4	13.7	2.64	0.31	2.68	2.77	1.57	0.03	0.14	0.04	<0.01	3.00	100.4
3849-A1	71.8	12.8	4.30	0.30	3.05	2.11	1.74	0.04	0.14	0.04	<0.01	4.00	100.4
3850-A1	72.8	13.4	3.02	0.30	2.94	2.51	1.67	0.03	0.14	0.04	<0.01	3.08	100.0
3851-A1	72.6	12.4	4.33	0.29	2.94	2.15	1.65	0.04	0.13	0.04	<0.01	3.93	100.6
3852-A1	73.6	13.3	2.68	0.30	3.00	2.42	1.67	0.03	0.15	0.04	<0.01	2.93	100.2
3853-A1	73.1	13.6	2.48	0.33	3.23	2.36	2.15	0.03	0.14	0.04	<0.01	2.70	100.2
3854-A1	74.1	13.3	2.66	0.27	3.25	2.20	1.79	0.02	0.14	0.04	<0.01	2.77	100.6
3855-A1	73.0	14.3	2.36	0.27	3.47	2.50	1.79	0.02	0.15	0.04	<0.01	2.62	100.6
3856-A1	73.8	13.9	2.13	0.35	2.86	2.64	1.98	0.02	0.15	0.04	<0.01	2.62	100.6
3857-A1	73.9	13.4	2.50	0.32	2.44	2.71	1.89	0.03	0.14	0.04	<0.01	2.85	100.3
3858-A1	73.8	13.1	2.94	0.29	2.75	2.50	1.43	0.03	0.15	0.04	<0.01	3.23	100.4
3859-A1	74.8	13.7	1.83	0.31	2.04	2.99	1.68	0.02	0.14	0.04	<0.01	2.54	100.2
3860-A1	74.8	13.7	2.19	0.30	2.66	3.03	1.57	0.02	0.15	0.04	<0.01	2.77	100.2

SAMPLE	SI02	AL203	CA0	MGO	NA2O	K2O	FE2O3	MNO	TI02	P2O5	CR2O3	LOI	SUM
3861-A1	73.2	13.7	2.43	0.27	2.12	3.04	1.60	0.02	0.14	0.04	<0.01	3.16	99.8
3862-A1	69.9	12.0	6.08	0.29	2.45	2.16	1.74	0.07	0.13	0.03	<0.01	5.31	100.2
3863-A1	73.6	12.9	3.04	0.26	2.33	2.59	1.52	0.03	0.15	0.04	<0.01	3.23	99.8
3864-A1	73.2	13.8	2.37	0.25	2.29	2.95	1.58	0.02	0.14	0.04	<0.01	2.93	99.7
3865-A1	73.9	13.6	2.44	0.24	2.48	2.84	1.64	0.02	0.14	0.04	<0.01	2.93	100.4
3866-A1	74.3	13.5	2.19	0.28	2.17	2.95	1.86	0.02	0.15	0.04	<0.01	2.85	100.4
3867-A1	72.8	13.2	3.32	0.31	2.57	2.56	1.86	0.04	0.14	0.04	<0.01	3.46	100.4
3868-A1	74.4	13.4	2.51	0.27	1.93	3.08	1.44	0.02	0.14	0.03	<0.01	3.08	100.4
3869-A1	73.5	13.1	3.07	0.32	2.31	2.74	1.90	0.03	0.13	0.03	<0.01	3.39	100.6
3870-A1	69.8	12.6	5.16	0.25	3.60	1.94	1.77	0.05	0.14	0.03	<0.01	4.54	100.0
3871-A1	73.2	13.2	3.03	0.26	3.31	2.33	1.67	0.03	0.14	0.04	<0.01	3.23	100.5
3872-A1	73.3	13.2	3.02	0.29	3.40	2.21	1.78	0.03	0.14	0.04	<0.01	3.16	100.7
3873-A1	73.0	13.4	2.73	0.28	3.42	2.31	1.75	0.03	0.14	0.04	<0.01	2.93	100.1
3874-A1	73.5	13.4	2.43	0.24	3.38	2.32	1.62	0.03	0.14	0.04	<0.01	2.77	100.0
3875-A1	73.6	13.2	2.96	0.27	3.42	2.17	1.59	0.03	0.14	0.04	<0.01	3.00	100.5
3876-A1	73.0	13.1	2.93	0.28	3.44	2.16	1.70	0.03	0.14	0.04	<0.01	3.08	100.0
3877-A1	73.2	13.4	2.70	0.27	3.92	2.15	1.81	0.03	0.14	0.04	<0.01	2.85	100.6
3878-A1	74.5	13.4	1.99	0.25	4.27	2.04	1.72	0.02	0.15	0.04	<0.01	2.16	100.6
3879-A1	75.3	12.1	2.33	0.32	4.41	1.48	1.57	0.03	0.12	0.03	<0.01	2.31	100.1
3880-A1	73.3	13.2	2.48	0.30	4.79	1.65	1.55	0.03	0.14	0.04	<0.01	2.62	100.2
3881-A1	73.4	13.2	2.47	0.27	4.34	1.83	1.61	0.03	0.13	0.04	<0.01	2.70	100.1
3882-A1	73.6	13.3	2.33	0.28	4.09	2.12	1.65	0.03	0.14	0.04	<0.01	2.77	100.4
3883-A1	74.3	13.7	1.69	0.26	3.63	2.51	1.61	0.02	0.14	0.04	<0.01	2.47	100.5
3884-A1	73.4	13.4	2.16	0.29	4.10	2.06	1.70	0.02	0.15	0.04	<0.01	2.47	99.9
3885-A1	74.3	13.2	2.21	0.24	4.53	1.80	1.68	0.03	0.14	0.04	<0.01	2.47	100.7
3886-A1	74.1	13.6	1.75	0.26	4.31	2.04	1.61	0.02	0.14	0.04	<0.01	2.16	100.1
3887-A1	73.1	13.2	2.53	0.27	4.44	1.81	1.80	0.03	0.14	0.04	<0.01	2.70	100.1
3888-A1	73.9	13.6	2.41	0.28	4.10	2.07	1.36	0.03	0.14	0.04	<0.01	2.54	100.5
3889-A1	74.6	13.3	2.13	0.26	4.14	1.97	1.48	0.03	0.14	0.04	<0.01	2.31	100.5
3890-A1	74.5	13.5	2.13	0.29	4.34	1.93	1.59	0.03	0.15	0.04	<0.01	2.93	100.6

	quartz porphyry													
	SAMPLE	SI02	AL2O3	CAO	H2O	NA2O	K2O	FE2O3	MNO	TI02	P2O5	CR2O3	LOI	SUM
	3891-A1	74.5	13.5	1.95	0.29	4.51	1.81	1.66	0.03	0.14	0.04	<0.01	2.08	100.6
	3892-A1	74.7	13.4	1.87	0.38	4.83	1.61	1.77	0.02	0.15	0.04	<0.01	1.77	100.6
	3893-A1	46.5	13.9	7.94	5.09	1.61	2.89	11.9	0.16	1.27	0.13	0.01	7.85	99.3
	3894-A1	47.1	14.0	7.94	5.23	2.75	1.17	12.0	0.17	1.29	0.13	0.01	8.00	99.9
	3895-A1	46.8	13.9	8.09	5.08	2.63	1.14	11.9	0.16	1.28	0.13	0.01	8.31	99.5
	3896-A1	47.6	13.8	7.59	5.39	2.56	1.15	11.6	0.16	1.26	0.13	0.01	8.16	99.5
	3897-A1	47.0	13.9	7.46	5.48	2.61	1.05	11.6	0.16	1.28	0.13	0.01	8.39	99.1
	3898-A1	47.2	13.9	7.44	5.37	2.68	1.43	11.9	0.16	1.30	0.13	0.01	7.93	99.5
	3899-A1	46.1	13.4	7.98	5.50	3.00	1.57	11.8	0.17	1.27	0.12	0.01	8.16	99.2
	3900-A1	46.6	13.6	7.93	5.24	3.12	2.01	11.5	0.17	1.27	0.13	0.01	8.00	99.7
	3901-A1	46.0	13.9	7.83	4.98	2.97	3.04	11.7	0.16	1.28	0.13	0.01	7.00	99.1
	3902-A1	69.4	11.2	3.55	1.40	5.37	0.92	3.90	0.05	0.42	0.07	0.01	2.77	99.2
	3903-A1	58.4	14.3	5.63	2.91	6.41	0.88	4.57	0.09	0.58	0.14	0.01	5.23	99.3
	3904-A1	62.4	14.5	4.13	2.63	6.23	1.20	4.16	0.06	0.54	0.14	0.01	3.85	100.0
	3905-A1	75.7	12.6	1.29	0.28	6.33	1.02	1.41	0.01	0.14	0.03	<0.01	1.47	100.4
	3906-A1	77.4	11.3	1.48	0.20	6.36	0.51	1.19	0.02	0.13	0.04	0.01	1.31	100.0
	3907-A1	73.5	13.2	2.03	0.28	6.39	1.04	1.31	0.03	0.14	0.04	<0.01	1.85	99.9
	3908-A1	73.7	13.3	1.98	0.30	5.70	1.40	1.36	0.02	0.15	0.04	<0.01	2.00	100.1
	3909-A1	73.6	13.5	2.15	0.29	5.86	1.34	1.42	0.03	0.14	0.04	<0.01	1.93	100.4
	3910-A1	73.1	13.2	2.37	0.44	5.56	1.24	1.97	0.03	0.18	0.04	<0.01	1.85	100.1
	3911-A1	48.7	14.6	6.38	5.05	3.55	1.14	12.0	0.15	1.32	0.14	0.01	6.70	99.8
	3912-A1	47.3	14.0	7.52	5.47	3.31	0.69	11.9	0.16	1.29	0.13	0.01	7.85	99.7
	3913-A1	74.9	13.3	1.18	0.29	5.60	1.44	1.63	0.03	0.14	0.03	<0.01	1.47	100.1
	3914-A1	74.5	13.0	1.57	0.30	5.89	1.26	1.67	0.04	0.14	0.03	<0.01	1.70	100.2
	3915-A1	75.3	13.1	1.28	0.27	6.28	1.11	1.55	0.03	0.13	0.03	<0.01	1.31	100.5
	3916-A1	74.3	12.9	1.80	0.28	6.74	0.81	1.49	0.04	0.14	0.03	<0.01	1.77	100.4
	3917-A1	74.8	12.1	1.89	0.29	5.91	0.98	1.68	0.04	0.12	0.03	<0.01	2.00	99.9
	3918-A1	75.2	13.2	1.00	0.31	5.89	1.36	1.64	0.02	0.14	0.04	<0.01	1.23	100.1
	3919-A1	75.6	13.4	0.98	0.25	6.97	0.87	1.68	0.03	0.14	0.03	<0.01	0.62	100.6
	3920-A1	74.9	13.2	1.21	0.25	6.97	0.83	1.64	0.03	0.14	0.03	<0.01	0.77	100.1

MAFIC METAVOLCANICS

Granodiorite - quartz
porphyry.Mafic
meta-
volcs.

quartz porphyry

SAMPLE	SI02	AL2O3	CAO	MGO	NA2O	K2O	FE2O3	MNO	TI02	P2O5	CR2O3	LOI	SUM
3921-A1	75.2	12.9	1.56	0.28	6.82	0.77	1.46	0.04	0.14	0.03	<0.01	0.70	100.0
3922-A1	75.3	13.3	1.17	0.33	5.65	1.51	1.59	0.03	0.14	0.03	<0.01	0.93	100.1
3923-A1	75.9	13.2	1.01	0.29	5.83	1.30	1.56	0.02	0.14	0.03	<0.01	0.93	100.3
3924-A1	75.2	13.0	1.12	0.26	5.73	1.22	1.59	0.02	0.13	0.03	<0.01	1.16	99.5
3925-A1	75.3	13.4	1.13	0.31	5.12	1.72	1.49	0.02	0.14	0.04	<0.01	1.35	100.1
3926-A1	76.0	13.3	1.21	0.50	4.45	1.90	1.49	0.02	0.14	0.04	<0.01	1.16	100.3

SAMPLE	RB	SR	Y	ZR	NB	BA
1-A1	60	210	30	100	10	690
3802-A1	50	170	<10	110	20	730
3803-A1	70	120	10	110	20	900
3804-A1	20	150	10	100	10	400
3805-A1	40	150	20	110	<10	370
3806-A1	40	120	<10	110	20	460
3807-A1	60	120	20	110	20	720
3808-A1	40	150	10	120	10	760
3809-A1	40	150	<10	110	10	690
3810-A1	30	150	20	100	40	400
3811-A1	50	130	10	120	20	740
3812-A1	60	170	20	110	20	1020
3813-A1	50	180	20	100	10	850
3814-A1	80	140	20	130	10	1250
3815-A1	60	180	10	120	10	770
3816-A1	10	160	20	110	20	650
3817-A1	50	190	<10	120	10	600
3818-A1	70	170	<10	120	10	1040
3819-A1	50	190	10	110	10	810
3820-A1	40	190	40	110	20	730
3821-A1	40	200	<10	130	20	590
3822-A1	40	190	<10	110	<10	610
3823-A1	50	180	10	120	20	820
3824-A1	30	210	20	100	30	620
3825-A1	40	190	<10	110	20	530
3826-A1	30	170	20	140	20	380
3827-A1	30	170	10	110	20	340
3828-A1	40	160	<10	120	20	320
3829-A1	30	150	30	110	10	320
3830-A1	50	140	10	130	20	300

SAMPLE	RB	SR	Y	ZR	NB	BA
31-A1	40	130	20	120	10	300
3832-A1	60	150	20	120	20	370
3833-A1	50	140	<10	120	30	370
3834-A1	50	140	10	130	20	370
3835-A1	60	140	10	110	10	380
3836-A1	50	120	20	120	20	340
3837-A1	50	140	20	120	<10	320
3838-A1	60	170	<10	130	20	440
3839-A1	60	130	10	130	20	390
3840-A1	60	160	30	110	20	500
3841-A1	60	170	<10	110	10	470
3842-A1	50	140	10	100	20	440
3843-A1	50	130	<10	100	20	370
3844-A1	60	130	<10	120	20	420
3845-A1	50	120	10	120	10	400
3846-A1	60	150	10	120	20	380
3847-A1	60	150	10	110	20	330
3848-A1	60	120	30	120	20	400
3849-A1	40	160	20	100	20	360
3850-A1	50	120	10	110	30	410
3851-A1	50	140	10	100	20	360
3852-A1	60	140	<10	120	20	380
3853-A1	50	130	20	120	10	370
3854-A1	50	130	10	120	10	390
3855-A1	60	130	20	120	20	420
3856-A1	50	120	20	120	20	470
3857-A1	60	150	10	120	<10	520
3858-A1	40	130	10	120	20	440
3859-A1	70	140	<10	130	20	570
3860-A1	70	120	20	130	10	570

SAMPLE	RB	SR	Y	ZR	NB	BA
1-A1	70	110	20	130	10	520
3862-A1	40	150	20	90	10	400
3863-A1	60	150	<10	120	20	600
3864-A1	70	120	<10	130	20	650
3865-A1	60	140	<10	130	10	620
3866-A1	70	130	20	120	10	630
3867-A1	50	140	<10	110	20	540
3868-A1	60	130	20	110	<10	560
3869-A1	70	140	20	130	10	550
3870-A1	50	150	<10	110	20	430
3871-A1	60	140	10	110	10	440
3872-A1	60	160	10	130	20	380
3873-A1	60	140	10	120	10	340
3874-A1	60	150	20	120	40	350
3875-A1	50	130	10	110	20	360
3876-A1	60	150	20	130	20	320
3877-A1	50	140	30	110	20	300
3878-A1	50	140	10	130	20	290
3879-A1	30	140	10	110	10	260
3880-A1	40	170	<10	110	20	300
3881-A1	30	140	20	110	10	350
3882-A1	50	140	30	120	20	380
3883-A1	60	170	<10	110	20	470
3884-A1	50	140	20	130	20	430
3885-A1	50	160	20	100	30	300
3886-A1	40	160	<10	110	20	390
3887-A1	40	170	10	110	10	310
3888-A1	40	170	10	110	<10	320
3889-A1	40	160	<10	110	10	320
3890-A1	40	150	<10	120	30	330

SAMPLE	RB	SR	Y	ZR	MB	BA
21-A1	40	190	20	110	20	320
3922-A1	40	200	<10	110	20	640
3923-A1	50	180	10	120	20	600
3924-A1	30	160	10	120	30	410
3925-A1	50	130	30	120	20	520
3926-A1	50	130	10	110	10	690

VARIOUS GEOCHEMICAL ANALYSES -

VARIOUS AUTHORS.

TABLE I

PARTIAL WHOLE ROCK + TRACE ELEMENT GEOCHEMISTRY
WINSTON LAKE VOLCANICS

	Sample #	SiO ₂ %	Al ₂ O ₃ %	FeO _T %	MgO %	CaO %	Na ₂ O %	K ₂ O %	TiO ₂ %	P ₂ O ₅ %	MnO %	Cu ppm	Zn ppm
Footwall Mafic Flow	TBD 4611	48.7	15.25	8.49	6.94	7.89	4.06	0.75	1.01	--	--	94	35
Altered Footwall Mafic Flow	TBD 3473	34.3	19.72	11.83	19.85	0.80	1.12	1.88	1.26	--	--	104	50
Middle Mafic Flow	TBD 3604	52.1	15.49	8.49	5.01	7.96	3.71	0.48	1.34	--	--	45	10
Altered Middle Mafic Flow	TBD 2747	51.2	14.69	10.00	11.57	0.11	0.54	1.39	0.89	--	--	109	43
Felsic-intermediate Volcaniclastics	TBD 3601	72.2	10.96	3.25	1.19	2.53	5.04	0.26	0.41	--	--	36	12
Altered Felsic-intermediate Volcaniclastics	TBD 3258	68.1	11.35	6.04	5.92	0.53	1.13	1.79	0.36	--	--	441	125
Quartz Feldspar Pyritic Rhyolite Flow	TBD 3608	77.3	12.18	1.63	0.32	1.23	6.06	0.09	0.23	--	--	3	7
Altered Quartz Feldspar Pyritic Rhyolite Flow	TBD 3282	74.9	10.32	3.63	6.19	0.62	0.47	1.13	0.27	--	--	83	17
'Ladder' Mafic Flow	TBD 3612	46.7	18.00	10.51	5.06	7.25	3.59	1.67	0.94	--	--	233	21
Altered 'Ladder' Mafic Flow	TBD 3264	49.6	14.35	19.29	7.65	0.34	0.52	0.19	0.82	--	--	42	76
Quartz Feldspar Porphyry	TBD 3615	74.6	11.43	2.22	0.91	1.88	4.16	0.65	0.30	--	--	5	23
Altered Quartz Feldspar Porphyry	TBD 3272	79.9	7.86	5.60	2.64	0.06	0.06	2.03	0.27	--	--	20	58
Gabbro	TBD 1643	50.9	14.30	11.60	7.94	11.10	1.85	0.30	0.76	0.07	0.18	--	--
Transition Zone	TBD 44	45.9	15.70	10.40	12.50	8.99	1.45	0.99	0.44	0.04	0.15	--	--
Pyroxenite	TBD 45	41.5	6.03	15.50	24.20	5.05	0.07	0.02	0.50	0.04	0.16	--	--

Source: C.I.M. Guidebook, 1984

TABLE 2: Chemistry of Mafic Metavolcanics and Related Rocks. Chemical Analyses by Geoscience Laboratory, Ontario Geological Survey.

	NVG-14	NVG-29	NVG-51	81	3	4	20
%							
SiO ₂	47.40	47.50	47.00	49.60	47.60	40.20	49.80
TiO ₂	0.86	0.99	0.79	0.39	0.31	0.32	1.26
Al ₂ O ₃	14.00	16.33	15.20	7.89	18.70	5.80	14.80
Fe ₂ O ₃ *	3.30	1.80	3.04	10.90	8.00	15.10	14.30
FeO	9.58	11.8	8.45	-	-	-	-
MnO	0.21	0.19	0.19	0.19	0.13	0.22	0.22
MgO	9.47	8.71	6.90	14.30	9.34	25.60	5.41
CaO	10.10	6.83	12.20	13.30	13.00	4.82	9.27
Na ₂ O	1.55	1.75	2.55	0.61	1.87	0.26	2.05
K ₂ O	0.08	0.05	0.14	0.36	0.09	0.01	0.12
P ₂ O ₅	0.06	0.07	0.06	0.05	0.03	0.03	0.11
CO ₂	1.22	0.02	0.08	0.01	0.02	0.04	0.10
S	0.06	0.02	0.08	0.01	0.02	0.04	0.10
TOTAL	101.00	100.30	99.20	99.60	99.23	92.60	100.30
LOI							
SP.GR.	3.03	2.88	3.00	3.02	2.97	2.94	3.00
ppm							
Ba	50	40	70	90	60	40	50
Co	55	50	50	55	40	115	46
Cr	430	315	370	1500	420	2280	242
Cu	210	65	135	95	54	168	148
Li	10	15	9	10	54	n.d.	16
Ni	225	125	135	250	150	600	108
Pb	n.d.	n.d.	n.d.	65	44	108	6
Zn	105	110	85	120	50	122	105
Zn/Cu	0.50	1.69	0.63	1.26	0.93	0.73	0.71

n.d. = below detection limits;

- = not analyzed for

Fe₂O₃* - total iron as Fe₂O₃

NVG-14 - Grey-green, fine-grained amygdaloidal basalt flow.

NVG-29 - Grey-green, fine-grained, plagioclase-phyric basalt flow.

NVG-51 - Green, fine-grained, pillowed basalt.

81 - Schistose basaltic komatiite; west shore, Centrefire Lake.

3 - Equigranular gabbro; north shore, Gullwing Lake.

4 - Equigranular metapyroxenite; north shore, Gullwing Lake.

20 - Mafic clast conglomerate; west shore, Vermilion Lake.

Note: NVG samples and No. 81 collected by N. Trowell, NVG samples from Botham Bay area, Vermilion Lake.

TABLE 4: Chemistry of Felsic Metavolcanics. Chemical Analyses
by Geoscience Laboratory, Ontario Geological Survey.

	1	7	9	10	13	15	17	21
SiO ₂	70.60	66.20	71.20	73.60	70.40	70.20	75.00	70.20
TiO ₂	0.33	0.73	0.56	0.64	0.26	0.22	0.09	0.25
Al ₂ O ₃	16.90	16.40	16.60	15.40	16.80	14.40	13.80	15.30
Fe ₂ O ₃ *	1.79	4.04	1.44	0.69	1.62	2.30	0.30	1.02
MnO	0.05	0.05	0.04	0.02	0.02	0.05	0.03	0.01
MgO	1.01	1.74	0.48	0.38	0.67	0.72	0.27	0.60
CaO	2.52	3.39	1.86	2.20	2.51	1.70	0.61	1.92
Na ₂ O	3.64	4.15	3.20	5.30	3.75	4.11	0.43	6.09
K ₂ O	2.42	1.81	2.25	1.07	3.28	2.02	9.07	1.27
P ₂ O ₅	0.10	0.16	0.08	0.10	0.06	0.06	0.02	0.10
CO ₂	0.15	0.22	0.33	0.33	0.15	0.85	0.86	2.55
S	0.09	0.06	0.07	0.01	0.03	0.64	0.02	0.05
TOTAL	99.60	100.10	98.11	99.74	99.55	97.27	100.50	99.70
LOI	1.00	1.50	1.60	0.60	0.80	1.90	1.00	3.00
SP.GR.	2.68		2.69	2.67	2.63	2.68	2.61	
Ba	630	390	600	390	920	440	1500	570
Co	7	9	n.d.	10	n.d.	12	n.d.	n.d.
Cr	22	71	73	25	11	28	n.d.	5
Cu	22	9	6	11	91	29	n.d.	n.d.
Li	32	14	99	8	18	9	8	6
Ni	11	15	n.d.	7	n.d.	12	n.d.	n.d.
Pb	45	14	49	67	53	51	73	13
Zn	84	54	26	42	48	52	12	50
Zn/Cu	3.8	6.0	4.3	3.8	0.53	1.79	-	-

n.d. below detection limits;

Fe₂O₃* = total iron as Fe₂O₃

- = not determined

- 1 Rhyolitic lithic tuff (muscovite-quartz schist); southeast shore, Gullwing Lake.
- 7 Felsic lithic tuff; southeast shore, Bluett Lake.
- 9 Muscovite-quartz schist; one km east of Needle lake, Webb Township.

Source: Page, 1984

TABLE 3: Chemistry of Intermediate Metavolcanics. Chemical Analyses by Geoscience Laboratory, Ontario Geological Survey.

	2	8	11	14	16	18	19	22	23
SiO ₂	55.70	65.10	61.30	57.40	67.30	58.40	55.90	38.70	68.20
TiO ₂	0.82	0.71	0.75	0.59	0.27	0.68	0.64	0.48	0.48
Al ₂ O ₃	16.50	15.90	16.00	18.20	15.40	13.80	14.40	10.20	15.20
Fe ₂ O ₃ *	8.64	4.62	6.31	6.43	2.44	5.19	5.03	12.20	1.55
MnO	0.19	0.08	0.10	0.16	0.04	0.10	0.08	0.20	0.02
MgO	3.00	1.77	2.51	2.89	0.83	3.12	3.57	6.20	1.36
CaO	8.69	4.09	3.16	6.33	2.16	5.19	7.56	12.10	2.95
Na ₂ O	3.70	3.46	5.52	3.11	3.91	3.62	2.71	0.95	2.13
K ₂ O	1.47	1.92	0.61	1.98	3.79	1.87	1.46	0.74	3.17
P ₂ O ₅	0.32	0.22	0.26	0.26	0.10	0.22	0.27	0.15	0.15
CO ₂	0.53	0.56	0.23	1.43	1.90	7.23	7.16	15.90	3.76
S	0.15	0.06	2.20	0.47	0.03	0.01	0.01	0.01	0.01
TOTAL	99.71	99.40	98.80	99.25	98.17	100.60	100.80	99.70	100.30
LOI	0.80	1.50	2.30	2.10	2.60	8.40	9.20	17.80	5.10
SP.GR.	2.89			2.76	2.71				
		98.49	98.95						
Ba	940	380	230	820	960	670	460	340	720
Co	23	11	24	28	6	14	13	43	n.d.
Cr	84	80	73	236	51	109	151	110	56
Cu	26	32	14	68	18	8	19	102	14
Li	18	10	12	28	14	8	34	60	4
Ni	22	30	61	51	10	55	46	127	8
Pb	43	16	14	56	32	20	22	14	14
Zn	123	74	186	58	72	62	63	138	20
Zn/Cu	4.7	2.3	13.3	0.85	4.0	7.8	3.3	1.35	1.4

n.d. below detection limits;

Fe₂O₃* = total iron as Fe₂O₃

2 Andesitic lapilli tuff (intermediate amphibolite); southeast shore, Gullwing Lake.

8 Dacitic lapilli tuff; southeast bay, Bluett Lake.

11 Dacitic lapilli tuff; drill hole site, 1.83 km NNE of Needle Lake.

1985

TABLE 2: CHEMICAL ANALYSES OF THOLEIITIC BASALTS.

Major Components In % Sample Number	Magnesium-rich Tholeiitic Basalts				Iron-rich Tholeiitic Basalt			
	1	2	3	4	1	2	3	4
	Field Number	72D536	73J1089	72J507	72J505	72J576	72D11	74J1237
SiO ₂	46.60	47.70	48.10	47.70	47.70	54.10	47.20	50.60
Al ₂ O ₃	14.50	15.70	15.80	17.30	13.00	11.30	14.50	12.20
Fe ₂ O ₃	1.74	1.62	12.1*	10.4*	4.76	4.03	18.30	4.65
FeO	9.60	9.25	-	-	13.90	10.60	-	10.70
MgO	9.29	6.39	9.97	9.76	5.85	3.89	4.61	3.81
CaO	10.50	11.70	9.86	8.97	6.65	6.42	9.70	8.72
Na ₂ O	1.70	2.18	1.56	1.43	2.40	2.56	1.81	2.59
K ₂ O	0.17	0.48	0.10	0.63	0.39	0.15	0.17	0.38
TiO ₂	0.83	1.11	1.02	0.73	2.36	2.35	2.36	2.46
P ₂ O ₅	0.05	0.09	-	-	0.16	0.41	-	0.10
S	0.01	0.01	-	-	0.07	0.10	-	0.17
MnO	0.20	0.20	-	-	0.27	0.25	0.25	0.23
CO ₂	0.10	1.00	-	-	0.19	0.20	-	0.14
H ₂ O*	3.20	1.72	-	-	2.97	3.45	0.30	2.26
H ₂ O	0.08	0.21	-	-	0.06	0.09	-	0.32
TOTAL:	98.40	99.40	98.51	96.92	100.70	99.90	99.20	99.30
Notes:								
*Total Fe reported as Fe ₂ O ₃								
Molecular Norms*								
	Sample Number	1	2	3	4	1	2	3
Apatite	0.110	0.197	-	-	0.356	0.930	-	0.225
Ilmenite	1.218	1.618	1.459	1.054	3.497	3.547	3.513	3.686
Orthoclase	1.059	2.971	0.067	3.861	2.454	0.961	1.074	2.290
Albite	16.078	14.378	14.378	13.303	22.922	24.900	17.365	25.011
Anorthite	33.120	33.119	36.779	40.342	25.056	20.481	33.069	22.164
Magnetite	1.916	1.773	2.705	2.416	4.293	4.361	4.312	4.453
Enstatite	14.387	7.328	24.301	25.150	15.439	9.412	10.171	6.711
Ferrosilite	7.171	4.957	8.985	8.230	16.243	0.430	11.623	7.096
Quartz	-	-	-	-	2.336	16.705	4.180	8.790
Diopside	11.437	12.897	7.856	3.483	3.482	4.445	6.857	9.205
Forsterite	5.184	3.515	0.020	0.771	-	-	-	-
Fayalite	2.584	2.378	0.007	0.252	-	-	-	-
Hedenbergite	5.700	8.725	2.095	1.140	3.664	4.454	7.835	9.773
Notes:								
1. Greenish-grey, aphanitic, magnesium-rich tholeiitic basalt, Frecheville Township (Analysis 62, Appendices II and III)					1. Massive, dark green, 1 to 2 mm grained, iron-rich tholeiite, Frecheville Township (Analysis 135, Appendices II and III).			
2. Dark green, aphanitic, magnesium-rich tholeiitic basalt, Lamplugh Township (Analysis 215, Appendices II and III).					2. Massive, dark green, 1 mm grained, iron-rich tholeiite Marriott Township (Analysis I, Appendices II and III).			
3. Grey, 4 mm grained, magnesium-rich tholeiitic basalt, Thackeray Township (Analysis 167, Appendices IV and V).					3. Massive, black, 1 mm grained, iron-rich tholeiitic basalt, Cook Township.			
4. Grey, massive, 2 to 3 mm grained, magnesium-rich tholeiitic basalt with plagioclase phenocrysts, Thackeray Township.					4. Aphanitic, pillowed, iron-rich tholeiitic basalt, Elliott Township (Analysis 177, Appendices IV and V).			
*Barth-Niggli Katanorm (Chayes and Metais 1963)								

TABLE 3: CHEMICAL COMPOSITION OF THOLEIITIC DACITE AND RHYOLITE.				
Major Components in Weight %				
Sample Number	1	2	3	4
Field Number	74F374	74F464	71J600	72J604
SiO ₂	65.30	66.10	75.60	90.10
Al ₂ O ₃	12.10	12.30	10.60	5.46
Fe ₂ O ₃	9.20	9.10	0.91	0.79
FeO	-	-	2.79	-
MgO	1.15	0.77	0.69	0.01
CaO	3.06	4.38	1.30	0.78
Na ₂ O	5.20	4.39	3.85	0.72
K ₂ O	0.29	0.27	1.04	0.72
TiO ₂	0.89	0.84	0.26	0.08
P ₂ O ₅	-	-	0.03	-
S	-	-	0.01	-
MnO	0.11	0.17	0.05	-
CO ₂	-	-	0.58	-
H ₂ O ⁺	1.15	0.15	0.69	-
H ₂ O ⁻	-	-	0.28	-
TOTAL	98.40	98.50	98.90	99.30
Molecular Norms*				
Sample Number	1	2	3	4
Apatite	-	-	0.666	-
Ilmenite	1.304	1.228	0.380	-
Orthoclase	1.803	1.675	6.460	4.549
Albite	49.085	41.348	36.3019	7.480
Anorthite	9.277	13.706	6.568	7.208
Magnetite	2.627	2.567	0.999	-
Corundum	-	-	.947	1.078
Enstatite	2.483	1.372	2.000	-
Ferrosilite	5.287	4.447	3.539	-
Quartz	22.784	26.382	42.677	79.037
Diopside	1.710	1.716	-	-
Hedenbergite	3.640	5.560	-	-
Notes:				
1. Dark grey, fine-grained tholeiitic dacite, Barnet Township.				
2. Black, fine-grained tholeiitic dacite, Barnet Township.				
3. Light reddish-grey, aphanitic tholeiitic rhyolite, Elliott Township.				
4. Light grey, cherty tuff of tholeiitic rhyolite composition, Thackeray Township.				
*Barth-Niggli Katanorm (Chayes and Metais 1963)				

Source:

L.S. JENSEN AND F.F. LANGFORD
1985

TABLE 8: SEMI-QUANTITATIVE CHEMICAL ANALYSES OF MAFIC TO ULTRAMAFIC LAVA FLOWS FROM THE STOUGHTON - ROQUEMAURE GROUP IN ROQUEMAURE TOWNSHIP (AFTER EAKINS 1972).

SAMPLE NUMBER	4	5	6	7	8
SiO ₂	45.39%	41.51%	47.61%	48.48%	47.61%
TiO ₂	0.72	0.50	0.68	0.67	1.24
Al ₂ O ₃	7.53	10.70	8.41	14.76	13.80
CaO	9.12	9.21	10.28	11.57	11.25
MgO	18.94	16.84	14.59	7.46	6.13
FeO*	11.97	11.63	12.86	11.91	14.36
Na ₂ O	0.45	0.79	1.48	1.88	2.10
K ₂ O	0.11	0.03	0.07	0.04	0.44
V	0.017	0.015	0.016	0.016	0.030
Cr	0.022	0.27	0.23	0.057	0.006
Fe (total)	9.28	9.02	9.97	9.23	11.13
Ni	880 ppm	790 ppm	670 ppm	151 ppm	97 ppm
Cu	40 ppm	189 ppm	153 ppm	155 ppm	135 ppm
Zn	87 ppm	74 ppm	83 ppm	85 ppm	108 ppm
Pb	17 ppm	18 ppm	13 ppm	22 ppm	18 ppm

Notes:

* Original determination was for total Fe. For purposes of calculation and comparison, total Fe has been entirely converted to FeO.

4. Amphibolitized pillowed picrite basalt; sample taken from single pillow centre; shoreline exposure, northern shore of Nepawa Bay, lot 21, range IX, Nepawa Island.

5. Pillowed picrite basalt; whole rock sample taken from small road cut on western side of lot 20-21 road in the northern part of range I.

6. Pillowed picrite basalt; sample from single pillow from a large ridge exposure at the northern end of lot 19, range I.

7. Pillowed basalt; sample taken from centre of single pillow from clear shoreline exposure, lot 6, range IV.

8. Finely amphibolitized basalt with stretched pillows from road cut, lot 15, range VIII, Nepawa Island.

All analyses by the Laboratory Branch, Quebec Department of Natural Resources.

Source: L.S. JENSEN AND F.F. LANGFORD
1985

TABLE 6: SEMI-QUANTITATIVE CHEMICAL ANALYSES OF ROCKS FROM THE HUNTER MINE GROUP IN ROQUEMAURE TOWNSHIP, QUEBEC (AFTER EAKINS 1972).

SAMPLE NUMBER	1	2	3	15	16	17
SiO ₂	71.89%	68.85%	61.32%	56.45%	54.54%	73.62%
TiO ₂	0.45	0.49	0.95	1.10	0.82	0.12
Al ₂ O ₃	10.65	13.36	15.42	15.27	15.04	10.32
CaO	0.37	2.51	3.07	3.98	4.49	2.80
MgO	2.17	1.10	2.51	4.25	5.97	0.43
FeO*	9.71	5.73	8.10	8.61*	7.34*	3.65
Na ₂ O	0.07	3.50	5.85	2.93	4.30	4.20
K ₂ O	1.60	1.82	0.35	1.49	0.58	0.91
V	0.008	0.005	0.008	0.015	0.014	0.005
Cr	0.007	0.002	0.005	0.006	0.013	0.009
Fe (total)	7.55	4.44	6.28	6.75	5.69	2.83
Ni	19 ppm	17 ppm	31 ppm	116 ppm	82 ppm	10 ppm
Zn	48 ppm	75 ppm	140 ppm	88 ppm	53 ppm	71 ppm
Cu	37 ppm	32 ppm	64 ppm	77 ppm	126 ppm	55 ppm
Pb	8 ppm	12 ppm	12 ppm	12 ppm	38 ppm	8 ppm

Notes:

*Original determination was for total Fe. For purposes of calculation and comparison, total Fe has been converted entirely to FeO.

1. Rhyolite tuff from a road cut exposure on the southern side of the range road in lot 26, range V, immediately north of range IV-V line of Roquemaure Township (Analysis by the Quebec Department of Natural Resources (Q.D.N.R.) Laboratory Branch, Q.D.N.R.).

2. Schistose rhyodacite flow breccia from a clean shoreline outcrop under a low clay cliff on the western side of a small peninsula on the southern side of Lake Abitibi in lot 31, range VI, close to the centre point of Roquemaure Township (Analysis by the Laboratory Branch, Q.D.N.R.).

3. Dacite flow breccia from a shoreline exposure in the southeastern corner of a small bay on the southern side of Lake Abitibi in the middle of lot 15, range V, of Roquemaure Township (Analysis by the Laboratory Branch, Q.D.N.R.).

15. Altered andesite lava; lot 48, range I, asbestos zone (Analysis by the Laboratory Branch, Q.D.N.R.).

16. Highly altered andesite lava; lot 38, range II (Analysis by the Laboratory Branch, Q.D.N.R.).

17. Rhyolite porphyry or feldspar-quartz porphyry from northern end of large outcrop 100 feet south of the range road in the southern end of lot 46, range V, Roquemaure Township.

TABLE 5. Abundances of major and selected trace elements in subvolcanic to extrusive quartz-feldspar porphyries from the Abitibi greenstone belt

	35L	PM1A	P11	PL-C	SyA	38SyB	38SyA	2DH	3B	4B2	9A	9B
SiO ₂	70.18	66.60	63.07	64.1	61.61	64.55	66.15	71.20	65.89	64.44	66.38	65.37
TiO ₂	0.24	0.32	0.31	0.37	0.53	0.50	0.36	0.18	0.45	0.52	0.51	0.51
Al ₂ O ₃	15.14	15.90	15.19	15.5	17.36	16.81	13.60	13.89	13.38	13.68	14.74	17.07
Fe ₂ O ₃	1.94	2.67	3.35	1.75	3.90	4.12	0.16	1.05	4.84	3.39	3.41	3.18
MnO	0.024	0.04	0.05	0.03	0.02	0.04	0.03	0.03	0.06	1.82	0.03	0.03
MgO	0.84	1.70	1.92	2.13	0.73	1.51	1.22	0.63	1.66	1.30	1.29	1.07
CaO	1.76	0.82	3.22	3.42	0.90	1.33	2.14	1.55	2.63	3.33	2.84	2.18
K ₂ O	1.34	0.28	1.11	1.13	0.16	0.11	0.13	2.76	2.83	0.88	0.91	0.88
Na ₂ O	6.90	8.76	6.68	6.14	9.53	8.89	7.84	5.99	5.77	6.87	8.26	8.28
P ₂ O ₅	0.09	0.14	0.12	0.08	0.04	0.09	-	0.66	0.06	0.20	0.23	0.21
LOI	2.37	1.15	5.20	4.00	6.09	2.20	7.24	2.05	0.91	2.21	1.33	2.22
TOTAL	100.82	98.38	100.94	98.75	100.87	100.15	98.87	99.39	98.48	98.64	99.93	100.99
S	-	-	1.78	1.54	-	-	-	-	-	-	-	-
Cr	23	-	30	73	59	64	24	48	126	28	32	28
Ni	12	-	19	13	43	48	20	24	70	14	17	14
Sc	-	-	-	-	-	-	-	-	-	-	-	-
V	24	-	38	-	32	47	13	13	27	60	74	65
Co	14	-	41	4	57	75	48	104	51	20	25	26
Cu	4	-	8	703	5	26	7	6	8	34	2	11
Zn	20	-	53	11	11	27	10	8	28	26	51	47
Pb	-	-	-	12	-	-	-	10	20	15	10	10
Rb	13	-	31	48	12	15	11	58	51	26	26	30
Sr	135	-	593	246	407	424	404	602	484	498	1420	1020
Y	6	-	-	8	11	16	10	14	15	10	12	4
Zr	68	-	115	100	221	197	174	138	133	203	186	-
Nb	-	-	-	48	44	38	27	22	23	12	20	6
Th	-	-	-	-	10	7	8	-	-	-	-	-
Fe ²⁺	0.84	-	1.89	-	-	-	-	-	-	1.38	1.20	0.66
Fe ²⁺ /ΣFe	0.62	-	0.81	-	-	-	-	-	0.41	0.51	0.27	-

35L and PM1A, Paymaster porphyry, Timmins; P11, Preston porphyry, Timmins; PL-C, Pearl Lake porphyry at contact with mafic volcanics and Cu-anhydrite zone; Sy A, 38 Sy A, 38 Sy B—Kerr Addison Mine, Kirkland Lake; samples 2, 3B, 4B2, 9AB from the East Malartic Mine, Quebec.

Source: C.I.M. Special Vol. 24
1982.

TABLE 2. Major and minor element abundances, in weight per cent and ppm respectively, of altered etavolcanic rocks from Balmertown and Cochenour town sites, along with less altered rocks for comparison

	491	1436	1496	492	1643	1283	1448	1495
SiO ₂	60.40	62.60	61.30	52.60	55.60	72.80	75.70	84.70
TiO ₂	0.89	0.97	0.72	0.92	0.62	0.16	0.16	0.12
Al ₂ O ₃	16.20	16.00	15.70	14.90	11.50	15.60	13.80	13.00
Fe ₂ O ₃	9.13	9.50	8.46	10.20	8.21	1.67	0.26	0.43
MnO	0.17	0.16	0.11	0.14	0.23	0.03	0.01	0.02
MgO	4.31	4.15	3.34	5.91	5.42	1.86	0.21	0.15
CaO	4.65	1.97	2.03	7.63	13.80	3.15	0.90	0.15
Na ₂ O	0.00	0.11	0.11	0.00	1.80	0.60	6.13	0.00
K ₂ O	0.17	0.19	2.68	0.33	0.02	1.72	0.93	0.29
P ₂ O ₅	0.08	0.08	0.10	0.09	0.08	0.06	0.07	0.04
CO ₂	1.74	1.36	3.60	8.24	1.74	0.28	0.52	0.85
S	0.16	0.19	0.23	0.33	0.00	0.09	0.01	0.04
TOTAL:	97.90	97.28	98.38	101.29	99.02	98.02	98.70	99.79
L.O.I.	3.50	4.40	5.40	7.80	2.50	2.30	1.30	1.20
As	54	128	168	45	1	27	25	70
Ba	80	60	110	70	40	130	250	40
Co	45	47	63	58	96	6	5	3
Cr	390	264	167	410	460	19	25	16
Cu	128	152	230	148	74	10	6	7
Li	36	55	92	37	3	69	12	32
Ni	105	88	119	111	132	22	10	15
Pb	10	72	61	10	20	48	52	75
Rb	10	10	80	10	<10	40	20	10
Sb	15.6	65.0	4.2	14.0	0.1	20.6	2.1	3.7
Sr	50	20	40	90	70	60	220	<10
Y	10	10	20	20	20	<10	<10	<10
Zn	80	88	57	78	67	24	12	9
Zr	50	30	40	50	20	50	40	20

Sample Descriptions:

- 491 altered pillowed mafic flow (probably tholeiitic), Balmertown.
- 1436 altered pillowed mafic flow (probably tholeiitic), Balmertown.
- 1496 altered pillowed mafic flow (probably tholeiitic), Cochenour.
- 492 altered pillowed mafic flow (greater than 80 per cent coalesced varioles), Balmertown.
- 1643 unaltered variolitic pillowed mafic flow (almost entirely coalesced varioles), Hoyles Bay.
- 1283 altered felsic flow ("siliceous rock"), Campbell Mine.
- 1448 unaltered felsic flow, south of Balmertown.
- 1495 altered felsic flow? ("Point rock"), Cochenour.

Source: C.I.M. Special Vol. 24
1982.

TABLE 1. Major and minor element abundance in weight per cent and ppm respectively, of typical samples of tholeiitic, komatiitic and calc-alkalic metavolcanic rocks from the east half of the Red Lake area

	615	617	621	1545	1608	911	1027	1465	1466	623	1004	426	11	94	421
SiO ₂	50.90	49.30	45.30	49.10	46.70	49.50	47.30	50.20	58.30	72.30	74.60	52.10	54.50	59.30	75.10
TiO ₂	0.31	0.29	0.31	0.41	0.29	1.19	1.16	0.63	0.56	0.31	0.03	1.34	0.55	1.02	0.19
Al ₂ O ₃	8.93	8.35	9.03	9.10	5.09	14.80	16.10	10.40	10.40	14.70	13.90	15.60	18.40	15.40	13.90
Fe ₂ O ₃	1.20	1.10	1.10	11.20	11.10	13.80	13.00	13.30	8.13	0.27	0.25	10.50	6.96	9.06	1.37
FeO	10.20	9.67	10.80	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.42	N.D.	N.D.	N.D.	N.D.	N.D.
MnO	0.19	0.18	0.21	0.20	0.21	0.24	0.23	0.28	0.19	0.01	0.05	0.15	0.10	0.14	0.05
MgO	14.00	15.90	17.80	15.50	20.30	6.63	6.36	10.20	7.26	0.78	0.11	4.98	5.51	2.54	0.26
CaO	7.88	9.18	9.49	11.30	11.10	10.40	11.30	12.70	10.90	1.82	1.29	8.43	9.06	5.23	1.03
Na ₂ O	0.95	1.07	0.50	0.68	0.24	2.29	2.77	0.71	2.12	3.33	2.53	2.91	2.61	3.75	4.21
K ₂ O	0.04	0.05	0.03	0.12	0.42	0.14	0.20	0.53	0.13	3.54	6.23	1.35	0.82	1.57	3.19
P ₂ O ₅	0.06	0.06	0.06	0.05	0.06	0.13	0.13	0.08	0.08	0.11	0.05	0.37	0.11	0.26	0.02
CO ₂	1.68	1.26	1.88	1.00	3.00	0.14	1.08	0.44	1.28	1.36	0.0	0.08	0.11	0.14	0.37
S	0.02	0.02	0.01	0.01	0.0	0.02	0.27	0.01	0.01	0.01	0.0	0.10	0.01	0.01	0.02
H ₂ O +	3.64	3.31	4.19	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.01	N.D.	N.D.	N.D.	N.D.	N.D.
H ₂ O -	0.21	0.24	0.23	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.19	N.D.	N.D.	N.D.	N.D.	N.D.
TOTAL:	100.21	99.98	100.94	98.67	98.51	99.28	99.90	99.48	99.36	99.96	99.04	97.91	98.74	98.42	99.71
L.O.I.	N.D.	N.D.	N.D.	2.50	5.70	0.30	1.40	1.00	2.00	N.D.	1.30	2.20	0.40	0.30	0.30
As	2	4	4	3	14	1	1	1	1	1	1	2	1	1	1
Ba	20	20	20	40	90	50	90	170	110	260	60	310	160	330	470
Co	66	81	82	71	83	47	51	59	46	5	5	40	31	22	5
Cr	1240	2540	2210	1700	3160	180	318	640	550	70	8	174	200	27	5
Cu	128	69	16	50	69	112	130	111	108	11	6	200	65	74	5
Li	8	10	12	16	26	8	24	16	7	12	4	17	13	16	12
Ni	220	500	420	420	630	82	142	152	133	15	5	111	131	15	5
Pb	38	50	40	22	60	10	11	35	41	202	93	11	12	12	10
Rb	10	10	<10	10	20	10	20	30	<10	50	320	30	40	10	50
Sb	3.3	0.8	5.9	1.7	0.5	0.2	1.1	0.4	0.3	27.8	0.4	0.3	0.1	0.1	0.2
Sr	30	20	10	30	30	110	140	70	50	130	30	320	50	130	60
Y	10	10	10	10	10	30	30	10	<10	10	40	30	130	10	110
Zn	77	76	83	76	54	107	120	110	70	12	112	110	69	97	27
Zr	10	<10	<10	10	<10	70	50	<10	<10	90	60	210	330	50	240

Sample Descriptions:

615	basaltic komatiitic flow with stringbeef spinifex	1465	pillowed variolitic flow, non-variolitic mafic matrix
617	basaltic komatiitic flow with radiating and wafer spinifex	1466	pillowed variolitic flow, coalesced varioles
621	pillowed basaltic komatiitic flow, fine-grained	623	tholeiitic rhyolitic flow-breccia fragment
1545	massive basaltic komatiitic flow, medium-grained	1004	porphyritic tholeiitic rhyolitic breccia
1608	massive komatiitic flow, medium-grained	426	porphyritic pillowed calc-alkalic basaltic flow
911	foliated tholeiitic basaltic flow, fine-grained	11	porphyritic massive calc-alkalic andesitic flow
1027	pillowed tholeiitic basaltic flow, fine-grained	94	porphyritic calc-alkalic dacitic tuff
		421	aphanitic calc-alkalic rhyolitic flow

Source: J.I.M. Special Vol. 24
1982



Ministry of
Natural
Resources

Report of Work
(Geophysical, Geochemical and
Geochemical and

#85-218

Instructions: - Please type or print.

of mining claims traversed on this form, attention to credits calculated in "Days Cr." section may be entered. Days Cr. column shaded areas below.

Ontario *R. R. #1 Mining Lands*



52F16N0025 2.8735 ECHO

900 *no Twp M-2236*
Prospector's Licence No. M-2254

Type of Survey(s) Geochemical analyses

Claim Holder(s) Tarbusch Lode Mining Limited

Address 4000 Yonge Street - Apartment 411 Toronto - Ontario

Survey Company Norontex Exploration Ltd Date of Survey (from & to) Nov. '85 to Nov. '85 Total Miles of line Cut n.a.

Name and Address of Author (of Geo-Technical report) R.R. #1, box 7 site 11 - Dryden - Ontario P8N 2Y4

Credits Requested per Each Claim in Columns at right

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	Days per Claim
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Man Days Complete reverse side and enter total	Geophysical	Days per Claim
	- Electromagnetic	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	Days per Claim
	Magnetometer	
	Radiometric	

PATRICIA MINING DIV
RECEIVED
DEC 10 1985
A.M. Geological P.M.
7:8, 9:10, 11:12, 1:2, 3:4, 5:6

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
Pa	436912	12.1			
	436997	12.1			
	437002	9.3			
	437003	12.1			
	437005	12.1			
	437006	12.1			
	437007	12.1			
	437008	12.1			
	437009	22.1			
	437228	10.0			
	437229	20.0			
	437230	20.0			
	437231	20.0			
	437232	20.0			
	437233	20.0			
	437234	20.0			
	437235	20.0			
	437236	20.0			
		286.1			

RECEIVED
DEC 10 1985
MINING LANDS SECTION

Expenditures (excludes power stripping) Sect. 77-19

Type of Work Performed Assaying & Sampling

X-Ray Lab + Norontex

Performed on Claim(s) Pa 437009 (from drillhole)

Calculation of Expenditure Days Credits

Total Expenditures \$ 5432.30 Total Days Credits 15 = 362.2

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.

Pa. 436907

Total number of mining claims covered by this report of work. **18**

For Office Use Only

Total Days Cr. Recorded 362.2 Date Recorded Dec. 19, 1985 Mining Recorder [Signature]

Date Approved as Recorded [Signature] Branch Director [Signature]

Date Dec. 9, 1985 Recorder Holder of Report (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 Joop Langelaar, R.R. #1, box 7 site 11 Dryden - Ontario P8N 2Y4

Date Certified Dec. 9, 1985 Certified by (Signature) [Signature]

Assessment Work Breakdown

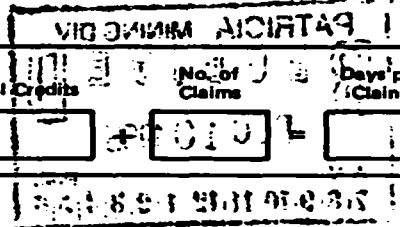
Man Days are based on eight (8) hour Technical or Line-cutting days. Technical days include work performed by consultants, draftsmen, etc..

Type of Survey												
Technical Days	X	7	=	Technical Days Credits	+	Line-cutting Days	=	Total Credits	+	No. of Claims	=	Days per Claim
[]		[7]		[]		[]		[]		[]		[]

Type of Survey												
Technical Days	X	7	=	Technical Days Credits	+	Line-cutting Days	=	Total Credits	+	No. of Claims	=	Days per Claim
[]		[7]		[]		[]		[]		[]		[]

Type of Survey												
Technical Days	X	7	=	Technical Days Credits	+	Line-cutting Days	=	Total Credits	+	No. of Claims	=	Days per Claim
[]		[7]		[]		[]		[]		[]		[]

Type of Survey												
Technical Days	X	7	=	Technical Days Credits	+	Line-cutting Days	=	Total Credits	+	No. of Claims	=	Days per Claim
[]		[7]		[]		[]		[]		[]		[]



Analyses costs - X-Ray Lab.

\$4232.30

Sample preparation, relogging and
report prep: 4 days @ \$300 F/D.

\$1200.00

\$5432.30

Note: With the assigned credits as per frontpage, all 18 claims should presently have 200 days each.


 J. Langelaar

norontex exploration ltd.

Ministry of Northern Development
and Mines
Attn: Ms. S.Hurst
Whitney Block, 6th Floor
Queen's Park
Toronto - Ontario

Dryden, March 25, 1986

RE: FILE 2.8735 - Submission in duplicate!

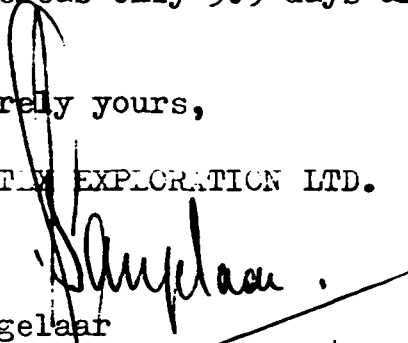
Dear Miss Hurst,

Further to your letter dated March 19, I
enclose a break-down of costs and days related to the
geochemical work on the "West block of Tarbush" claims, PA436912,
et.al.

The \$900.00 for report preparation allows us under special
provisions 60 days whereas only 3.9 days are required.

Sincerely yours,

NORONTEX EXPLORATION LTD.


J. Langelaar

cc. Tarbush Lode Mining Ltd
Yonge Street
Toronto
Attn: Mr. P.S.Broadhurst.

RECEIVED

APR - 1 1986

MINING LANDS SECTION

TO: TARBUSH LODE MINING LIMITED.
Attn: Mr. P.S. Broadhurst, P. Eng.
4000 Yonge Street - apartment 411
Toronto - Ontario
M4N 2N9

I N V O I C E

RE: WESTBLOCK GEOCHEM. SAMPLES drillcore TB 83-1

Sample preparation - relogging - report preparation

4 days @ \$300 per diem \$1200,00

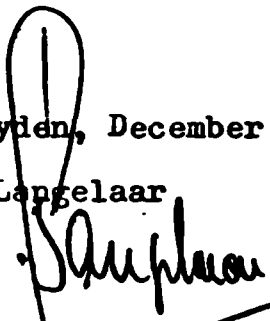
ADDED MARCH 25, 1986: Above break-down as follows:

Sample preparation & re-logging 1 day @ \$300.00

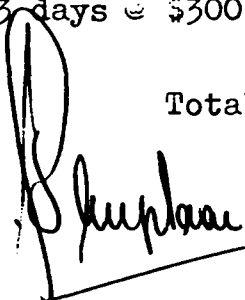
Report preparation 3 days @ \$300 p.d \$900.00

Dryden, December 5, 1985

J. Langelaar



Total: \$1200.00



Ministry of Natural Resources
Attention: Mr. S.Cossais
OMEP Evaluator
Mining Taxation & OMEP Office
Room 4649
Whitney Block
99 Wellesley Street West
Toronto - Ontario.

Dryden, February 18, 1986

RE: TARBUSH LODE MINING LIMITED ACCOUNT.

Dear Sir,

Please be advised that the amount of \$12,072.10 for services rendered to Tarbush Lode Mining has been paid in full.

Sincerely yours,

NORONTEK EXPLORATION LTD


J. Langelaar, M.Sc., P.Eng.

cc: Tarbush Lode - Toronto



Ontario

**Ministry of
Northern Development
and Mines**

March 19, 1986

File: 2.8735

Norontex Explorations Ltd
3 Bedworth Road
R.R.#1
Site 11
Box 7
Dryden, Ontario
P8N 2Y4


Dear Sirs:

RE: Data for Assaying and Report submitted
on Mining Claims PA 436912, et al, in
Echo & McArée Townships

With reference to your letter of February 27, 1986, the costs incurred in sample preparation and relogging core are not acceptable for assessment purposes. However, report preparation costs may be acceptable. Please provide, in duplicate, a statement of costs in this respect. When submitting this material, please quote file 2.8735.

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
M7A 1W3

Telephone: (416) 965-4888

SH/mc

cc: Mining Recorder
Sioux Lookout, Ontario
#85-218

Tarbush Lode Mining Limited
4000 Yonge Street
Apartment 411
Toronto, Ontario
M4N 2M9

File 2.8735

26/03/26

- Phil Broadhurst phoned several times, wanting to speak to Ray. R was at MND & M. (26/03/25)
- I spoke to Mr. Broadhurst. I told him why we could not give him credits for sample preparation and logging. His problem, our reduction will forfeit his claims.

Mr. Broadhurst's solution; he will have his consultant Mr. Langelear submit a further breakdown of the \$1200.00 expenditure.

See Invoice dated Dryden, December 5, 1985
J. Langelear.

presently: 1 days @ \$300 per diem ... \$1200.00
(on site)

further breakdown
(to be supplied)

1 day @ \$300 for sample preparation and logging \Rightarrow \$300

3 days @ \$300 for report preparation \Rightarrow \$900

$\$900 / 15 = 60$ days. (S. Hurst O.K.)

- Mr. Broadhurst will also obtain ~~of~~ relief from forfeiture + extension from M & L C.

- Mr. Langelear (consultant) called I explained what Mr. Broadhurst planned to do.

TS.

March 19, 1986

File: 2.8735

Norontex Explorations Ltd
3 Bedworth Road
R.R.#1
Site 11
Box 7
Dryden, Ontario
P8N 2Y4

Dear Sirs:

RE: Data for Assaying and Report submitted
on Mining Claims PA 436912, et al, in
Echo & McAree Townships

With reference to your letter of February 27, 1986, the costs incurred in sample preparation and relogging core are not acceptable for assessment purposes. However, report preparation costs may be acceptable. Please provide, in duplicate, a statement of costs in this respect. When submitting this material, please quote file 2.8735.

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
M7A 1W3

Telephone: (416) 965-4888

SH/mc

cc: Mining Recorder
Sioux Lookout, Ontario
#85-218

Tarbush Lode Mining Limited
4000 Yonge Street
Apartment 411
Toronto, Ontario
M4N 2M9

norontex exploration ltd.

RECEIVED	
Land management Branch	
Prepare reply	<input type="checkbox"/>
Commented package	<input type="checkbox"/>
BT	
MAR -3 1986	
S. E. YUNDT	
J. R. MORTON	
J. C. SMITH	✓
D. W. SCOTT	
M. J. HOGAN	
J. LANGELAAR	

→ Sample prep
→ re logging
→ report preparation
poss. ok

Ministry of Natural Resources
Mining Lands Section
Attention: Ms. S. Hurst
Whitney Block - Queen's Park
6th floor
Toronto - Ontario
M7A 1W3

Dryden, February 27, 1986

re: your file: 2.8735
our file : 85-218

RECEIVED

MAR 01 1986

MINING LANDS SECTION

Dear Miss Hurst,

Further to our telephone conversation of this morning, I enclose a copy of our invoice to Tarbush, dated December 5th, 1985 for the amount of \$1200, this being the charges for sample preparation, re-logging and report preparation.

This amount, being part of the total amount of \$12,072.10 - see second copy to OMEP - has been paid in full by Tarbush: proof of payment has been submitted by Mr. Broadhurst to the OMEP Evaluator.

Trusting that these copies may resolve the question of acceptance of the requested 362.2 days of which only 286.1 are required to bring these 18 claims to 200 days each, I remain,

Sincerely yours,
NORONTEX EXPLORATION LTD

J. Langelaar

cc: Tarbush, Toronto

TO: TARBUSH LODE MINING LIMITED.
Attn: Mr. P.S. Broadhurst, P. Eng.
4000 Yonge Street - apartment 411
Toronto - Ontario
M4N 2N9

I N V O I C E

RE: WESTBLOCK GEOCHEM. SAMPLES drillcore TB 83-1

Sample preparation - relogging - report preparation

4 days @ \$300 per diem \$1200,00

Dryden, December 5, 1985

J. Langelaar



nrontex exploration ltd.

Ministry of Natural Resources
Attention: Mr. S.Cossais
OMEP Evaluator
Mining Taxation & OMEP Office
Room 4649
Whitney Block
99 Wellesley Street West
Toronto - Ontario.

Dryden, February 18, 1986

RE: TARBUSH LODE MINING LIMITED ACCOUNT.

Dear Sir,

Please be advised that the amount of \$12,072.10 for services rendered to Tarbush Lode Mining has been paid in full.

Sincerely yours,

NORONTEX EXPLORATION LTD


J. Langelaar, M.Sc., P.Eng.

cc: Tarbush Lode - Toronto



Ontario

Mar. 12/86

Ministry of
Northern Development
and Mines

February 25, 1986

Your File: 85-218
Our File: 2.8735

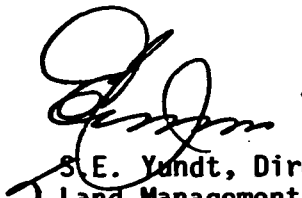
Mining Recorder
Ministry of Northern Development and Mines
P.O. Box 309
Sioux Lookout, Ontario
POV 2T0

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,


S.E. Yundt, Director
Land Management Branch

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

Encls.

A. SH/mc

cc: Tarbush Lode Mining Limited
4000 Yonge Street
Apartment 411
Toronto, Ontario
M4N 2M9

Joop Langelaar
R.R.#1
Box 7
Site 11
Dryden, Ontario
P8N 2Y4

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



Ontario

Ministry of
Northern Development
and Mines

Notice of Intent
for Technical Reports

February 25, 1986

2.8735/85-218

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.



Recorded Holder
TARBUSH LODGE MINING LIMITED

Township or Area
ECHO AND McAREE TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic _____ days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days	<p>\$4232.30 SPENT ASSAYING SAMPLES TAKEN FROM MINING CLAIM:</p> <p>PA 437008</p>
<p>Section 77 (19) See "Mining Claims Assessed" column</p> Geological _____ days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input type="checkbox"/> Ground <input type="checkbox"/> <input type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following 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; Geological - 40; Geochemical - 40; Section 77(19) - 60.

Nov. 29 19 85

1

Next
~~Bank~~ **Stock**

PAY TO THE ORDER OF X-RAY ASSAY LABORATORIES \$ 4232.30

Four thousand two hundred thirty two and 50/100 DOLLARS

TARBUSH LODGE MINING LIMITED

THE TORONTO-DOMINION BANK
DIXIE RD., AT ORENDA RD.
8125 DIXIE ROAD
BRAMPTON, ONT. L6T 2J9

S-S-B
046300880323

00004232300

128

TARBUSH LODGE MINING LIMITED
2 ROBERT SPECK PKWY.,
SUITE 1250
MISSISSAUGA, ONTARIO

Oct 29 19 85

PAY TO THE ORDER OF Custom Five Assaying Ltd \$ 120.00

one hundred twenty DOLLARS

TARBUSH LODGE MINING LIMITED

THE TORONTO-DOMINION BANK
DIXIE RD., AT ORENDA RD.
8125 DIXIE ROAD
BRAMPTON, ONT. L6T 2J9

S.S.B
046300880323

0000012000

In voice #16 To Norwotley Exptl. Ltd

~~Bank~~ **Stock**

131

TARBUSH LODGE MINING LIMITED
2 ROBERT SPECK PKWY.,
SUITE 1250
MISSISSAUGA, ONTARIO

Nov. 18 19 85

PAY TO THE ORDER OF Custom Five Assaying Ltd \$ 897.00

eight hundred ninety seven DOLLARS

TARBUSH LODGE MINING LIMITED

THE TORONTO-DOMINION BANK
DIXIE RD., AT ORENDA RD.

~~Bank~~ **Stock**

Mining Lands Section

File No 28735

Control Sheet

TYPE OF SURVEY GEOPHYSICAL
 GEOLOGICAL
 GEOCHEMICAL
 ✓ EXPENDITURE

MINING LANDS COMMENTS:

no maps
✓ - sample preparation - No.
✓ logging - No.
- Report - maybe?

(*) See file 52F/16NW-00/1 B1 at AFRO for
drill logs

(*) See file 8713 for
further maps

L.S.
Capt.

J. Heurst

Signature of Assessor

Feb 18/86

Date

May 2, 1986

Your File: 85-218

Our File: 2.8735

Mining Recorder
Ministry of Northern Development and Mines
P.O. Box 309
Sioux Lookout, Ontario
POV 2T0

Dear Sir:

RE: Notice of Intent dated April 30, 1986
Assaying Samples and Evaluation Report
on Mining Claim PA 437008 in Echo and
McAree Townships

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
Mining Lands Section

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

Telephone: (416) 965-4888

SH/mc

cc: Tarbush Lode Mining Limited
4000 Yonge Street
Apartment 411
Toronto, Ontario
M4N 2M9

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

Joop Langelaar
R.R.#1
Box 7
Site 11
Dryden, Ontario
P8N 2Y4

Resident Geologist
Sioux Lookout, Ontario

Encl.



AMENDED

Recorded Holder	TARBUSH LODE MINING LIMITED
Township or Area	ECHO AND McAREE TOWNSHIPS

Type of survey and number of 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" column Geological _____ days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input type="checkbox"/> Ground <input type="checkbox"/> <input type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	<p>\$900.00 SPENT ON EVALUATION REPORT ON MINING CLAIMS:</p> <p>PA 436912-97 437002 to 009 inclusive 437011-12 437219 to 225 inclusive 437227 to 236 inclusive 533105 to 107 inclusive 533210-23-26</p> <p>60 DAYS CREDIT ALLOWED WHICH MAY GROUPED IN ACCORDANCE WITH SECTION 76(6) OF THE MINING ACT R.S.O. 1980.</p>

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following 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; Geological - 40; Geochemical - 40; Section 77(19) - 60.



AMENDED

Recorded Holder	TARBUSH LODE MINING LIMITED
Township or Area	ECHO AND McAREE TOWNSHIPS

Type of survey and number of 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" column Geological _____ days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input type="checkbox"/> Ground <input type="checkbox"/> <input type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	\$4232.00 SPENT ON ASSAYING SAMPLES TAKEN FROM MINING CLAIM: PA 437008 282.15 DAYS CREDIT ALLOWED WHICH MAY BE GROUPED IN ACCORDANCE WITH SECTION 76(6) OF THE MINING ACT R.S.O. 1980.

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

<input type="checkbox"/> not sufficiently covered by the survey	<input type="checkbox"/> 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; Geological - 40; Geochemical - 40; Section 77(19) - 60.



Ontario

AMENDED

April 30/86

Ministry of
Northern Development
and Mines

April 15, 1986

Your File: 85-218
Our File: 2.8735

Mining Recorder
Ministry of Northern Development and Mines
P.O. Box 309
Sioux Lookout, Ontario
POV 2T0

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

J SH/mc
Encl.

cc: Tarbush Lode Mining Limited
4000 Yonge Street
Apartment 411
Toronto, Ontario
M4N 2M9

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

Joop Langelaar
R.R.#1
Box 7
Site 11
Dryden, Ontario P8N 2Y4



Ontario

Ministry of
Northern Development
and Mines

AMENDED

Notice of Intent
for Technical Reports

April 15, 1986

2.8735/85-85-218

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.

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

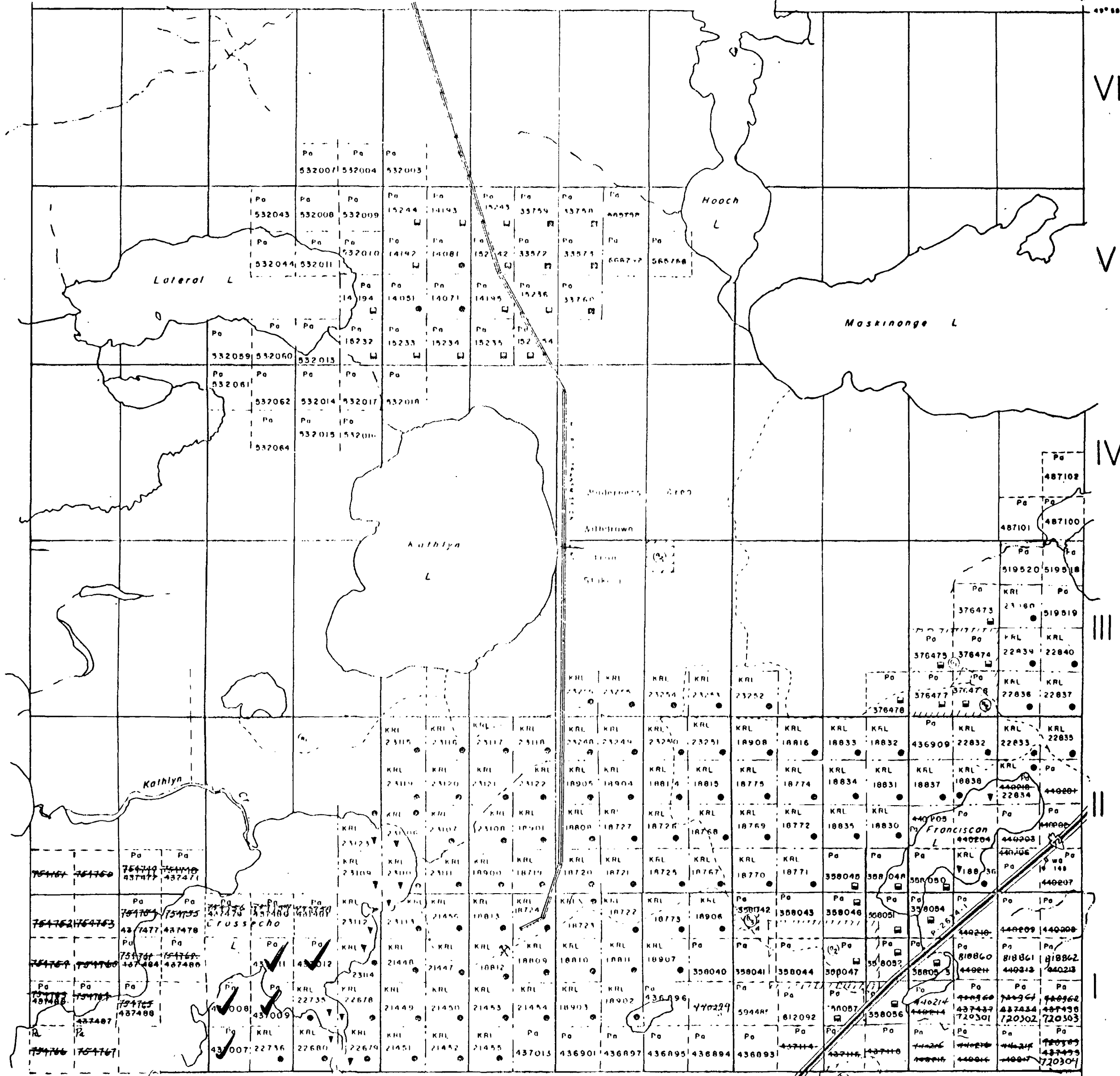
LOMOND Tp. M. 2251

- ④ Sec 43 S R O Res Mar 6/70 File: 163474
- ④ Sec 43 S R O Res May 10/71
- ④ M T C P11 1187
- ④ Cancelled Mar 13, 1984
- ④ Gravel Pit 500 MTC file
- ④ Gravel File: 125112
- ④ Sec 43 S R O Res 16/1/74, Order No W1/74, File: 125106
- ④ M.N.R Gravel Pit 134 File: 132273

June 6, 1984
Feb. 25, 1986

JULY 30/85 (Rev)
SEPT 3/85

WEBB Tp. M. 1874

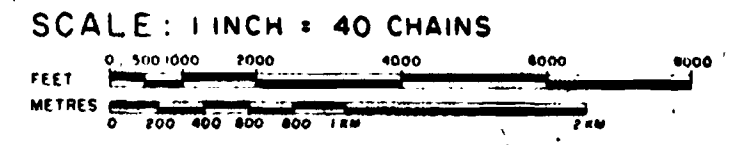


KABIK LAKE & PICKEREL Tp. M. 2258

- HIGHWAY AND ROUTE No
 OTHER ROADS
 TRAILS
 SURVEYED LINES:
 TOWNSHIPS, BASE LINES, ETC
 LOTS, MINING CLAIMS, PARCELS, ETC
 UNSURVEYED LINES:
 LOT LINES
 PARCEL BOUNDARY
 MINING CLAIMS ETC
 RAILWAY AND RIGHT OF WAY
 UTILITY LINES
 NON-PERENNIAL STREAM
 FLOODING OR FLOODING RIGHTS
 SUBDIVISION
 ORIGINAL SHORELINE
 MARSH OR MUSKEG
 MINES

DISPOSITION OF CROWN LANDS

- | TYPE OF DOCUMENT | SYMBOL |
|--------------------------------|--------|
| PATENT/SURFACE & MINING RIGHTS | |
| " SURFACE RIGHTS ONLY | |
| " MINING RIGHTS ONLY | |
| LEASE, SURFACE & MINING RIGHTS | |
| " SURFACE RIGHTS ONLY | |
| " MINING RIGHTS ONLY | |
| LICENCE OF OCCUPATION | |
| CROWN LAND SALE | |
| ORDER-IN-COUNCIL | |
| RESERVATION | |
| CANCELLED | |
| SAND & GRAVEL | |



ACRES 40

HECTARES MINING DIV. RECEIVED NOV 27 1985

TOWNSHIP

ECHO

DISTRICT KENORA

MINING DIVISION PATRICIA

ONTARIO
 MINISTRY OF NATURAL RESOURCES
 SURVEYS AND MAPPING BRANCH

DATE Jan '73 PLAN No. M. 2236

WHITNEY BLOCK
 QUEEN'S PARK, TORONTO



McAREE Tp. M. 2254

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

- SAND & GRAVEL**
- ⊙ QUARRY PERMIT
 - ⊙ M.T.C. PJI No. 1200
 - ⊙ M.T.C. PJI No. 1112

RESERVES

AREAS WITHDRAWN FROM STAKING

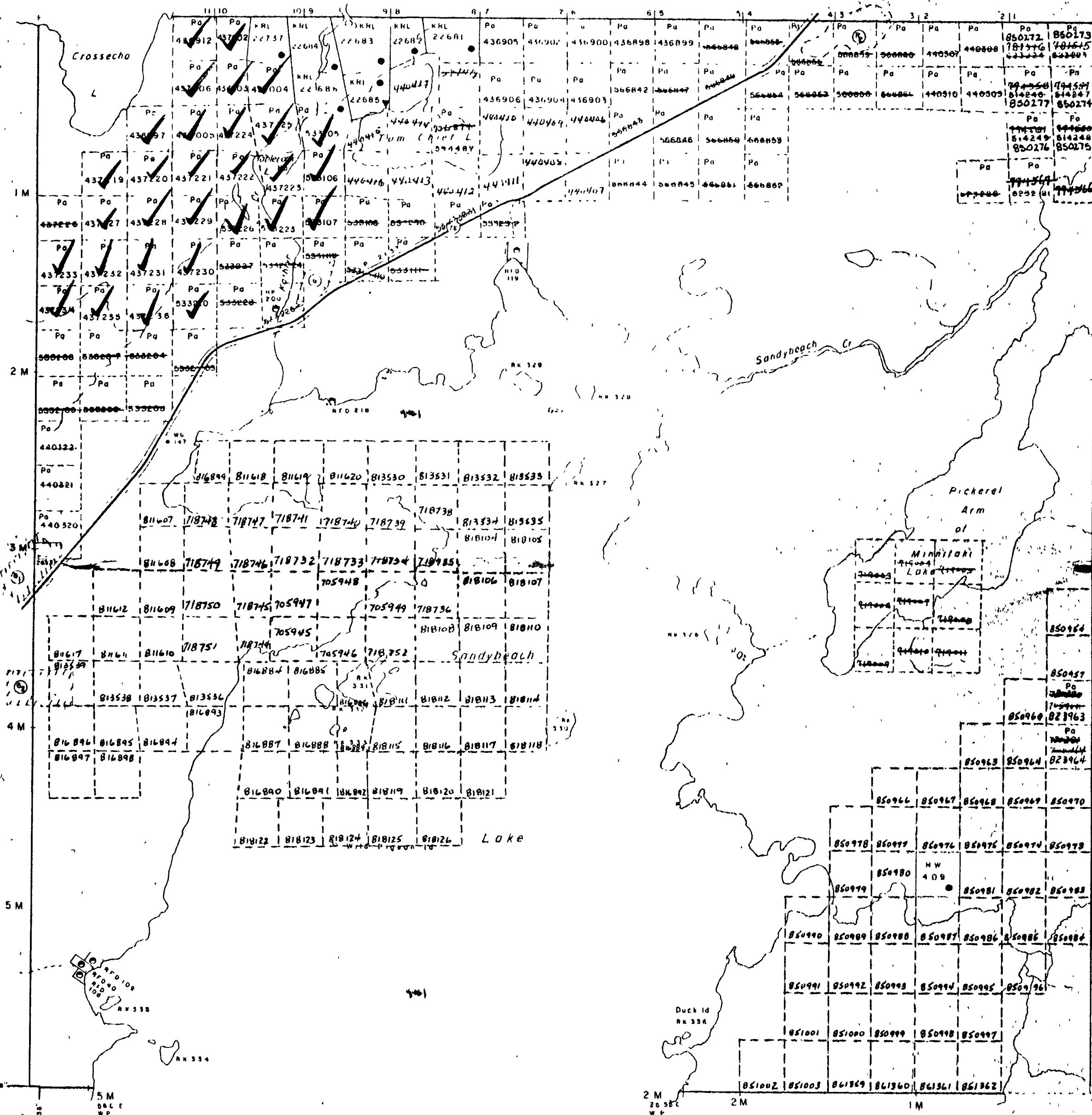
SR SURFACE RIGHTS MR MINING RIGHTS
Section Date Disposition File Order No

⊙ 43 (RSO'70) 16 Jan '74 SR 125106 W1/74.

- Oct 28, 1983
- Feb 9, 1984
- Mar 21, 1984
- Apr 26, 1984
- Aug 12, 1984
- Aug 8, 1984
- Aug 8, 1984
- Aug 21, 1984
- Sept 10, 1984
- Feb 21/85
- Apr 4/85
- May 17/85
- June 3/85
- July 8/85
- July 27/85
- Dec 17/85
- Sept 23/85
- Sept 24/85
- see also

PATRICIA MINING DIV
RECEIVED
FEB 25 1986
A.M. P.M.

LAVAL TP. M. 3370
KENORA MINING DIVISION



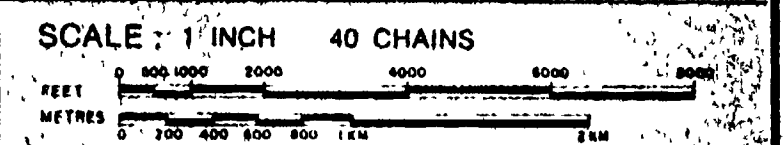
M. 2258

KEIKEWABIK LAKE M. 2258

- LEGEND**
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DISPOSITION OF CROWN LANDS

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 - CANCELLED
 - SAND & GRAVEL



ACRES	HECTARES
40	16

TOWNSHIP
McAREE
DISTRICT
KENORA
MINING DIVISION
PATRICIA

Ministry of Natural Resources
Ontario Surveys and Mapping Branch

Date: 8/84 Plan No: M.2254
Whitney Block, Queen's Park, Toronto

