42A01SE8910 26 OTTO

DIAMOND DRILLING

TOWNSHIP: OTTO TWP. **REPORT NO:** 26

WORK PERFORMED FOR: L.M. Dyment

RECORDED HOLDER: SAME AS ABOVE (**xx**)

: OTHER ( )

CLAIM NO.	HOLE NO.	FOOTAGE	DATE	NOTE
L 891868	JA 89-1	505'	Nov/89	(1)

NOTES: (1) #W9008.040, filed Mar/90

QUEENSTON GROUP
DIAMOND DRILL REPORT

PROJECT: Gravel Pit
Dyment-Kidston
DDH NO: JA 89-1

COMMENCED: Nov 20, 1989
FINISHED: Nov 22, 1989
CORE SIZE: BQ 1 3/8"
TOTAL DEPTH: 505 ft
CONTRACTOR: Heath & Sherwood
LOGGED BY: W. J. McGuinty

PROPERTY: Gravel Pit
TOWNSHIP: Otto
PROVINCE/NTS: Ontario
LOCATION: (re Grid):
500' Dip test (re Claim):

ELEV:
AZIM: 180 deg
DIP: -45 deg
-41 deg

ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES
OFFICE
MAR - 2 1990
RECEIVED

UNITS: Feet

FROM	TO	CORE LENGTH	
0	8.2	8.2	Casing
8.2	13.3	5.1	Re crystallized med. grained volc. (intrusive?) euhedral amphibole phenocrysts in white grey groundmass - becomes finer grained down hole - moderate carbonate alt'n, trace pyrite, thin fractures parallel to C. A.
13.3	14.4	1.1	Graphite schist 40 deg. to C. A., pyrite 10%, some pitting and boxwork.
14.4	39.6	25.2	Mafic fragmental? fragments are white grey in colour in a grey ground mass with diffuse boundaries - rock is weak to moderately banded on large scale at 50 deg. to C. A. defined by wispy bands of py, po and biotite(?)-chlorite 31.0-36.0 patchy po, py lenses 29.0-30.0, 35.0-36.0 blue qtz. eyes
39.6	45.5	6.0	Graphite schist 45 deg. to C. A. some cross-cleavage at right angle to foliation plane 2-3% po-py bands 39.6 - 40.8 upper contact is gradational 10-15% dissem. & banded po,py, increasingly graphitic downhole - carbonate seams parallel graphitic foliation.
45.6	46.6	1.0	Fine grained volcanic upper and lower contacts 60 deg. to C. A. with fine grained py 5%. Strong jointing at 70 deg. to C. A.

46.6	104.0	57.4	Graphite schist, foliation 40 deg. C. A. 48.9 1/4" q.v. parallel to fol'n 51.0 1/2" q.v. 35 deg. to C. A., graphite folded on contacts, some specks cpy 51.2 - 51.7 contorted broken graphite schist 53.7 - 54.4 white bleached cherty band with thin layers of discrete chlorite crystals 57.5 - 57.9 siliceous bands py, po 7-10% 64.1 - 71.5 graphitic schist-breccia with small to very large fragments of fine to med. grained altered volcanic up to 4 inches across, some contorted foliation in graphite. 84.0 - 85.3 graphite breccia with volcanic fragments. 85.3 - 86.7 large agglomerate fragment? well carb. altered 5-10% po,py some cpy 86.7 - 88.4 graphitic breccia 88.4 - 92.0 mafic volc. well carbonate alt'd @ 91 speck galena 92.0 - 104.0 graphite schist 40 deg. to C. A. 95.5 crenulation cleavage + kink folding axes @ 40 deg. to C. A. 99.0 - 100.0 lobate folds 100.0 - 100.1 qtz-calcite vein, no sulphide 100.1 - 100.5 broken graphite breccia
104.0	122.2	18.2	Banded chert-graphite, siliceous from 104.0 - 106.0 with fine white-black laminations, dislocated fracturing, some breccia 106.0 - 109.0 interbed of foliated tuffaceous volc. with blue qtz. eyes
122.2	123.0	.8	Altered lamprophyre, 70% biotite phenos. strong carbonate alteration
123.0	138.2	15.2	Graphitic schist & banded breccia 35-40 deg. to C. A.
138.2	146.9	8.7	Cherty biotite-chlorite-pyrite schist (exhalative) becoming more chloritic and less siliceous to end of section primary banding at 35 deg. to C. A. sometimes wavy fine to c.g. pyrite in bands and dissem. 10-15% overall - some wisps carbonate parallel to foliation

146.9	152.0	5.1	"Transitional" sericite-chlorite-carbonate alt'd volc tuff well foliated 45 deg. to C. A., patchy white carbonate-silica bands and weak bands 1-2% pyrite - grading from exhalative zone to tuff
152.0	175.7	23.7	Mafic tuffaceous volcanic foliation or banding at 45 deg. to C. A., grey colour, massive texture - some jointing at 35 deg. to C. A. as well as weaker sets at 45 deg and sub parallel to C. A. -foliation not strongly pronounced -coarse recrystallized chlorite up to 1mm throughout section -patchy pale colored feldspathic bands occur throughout 173.0 - 174.5 banded silicified exhalative zone, fractured and re silicified, some late carbonate 159.8 - 169.1 q. v. 1/2"
175.7	179.5	3.8	Biotite lamprophyre massive fine grained few biotite phenos. upper cont. 50 deg to C. A. lower 45 deg to C. A. carbonate alt'n pervasive 1-2% dissem. py
179.5	232.4	52.9	Tuffaceous volcanic - little carbonate alteration upper contact area has 1-2% py (contact effect?) 195.6, 197.2, 212.0, 224.0, 230.0 grey qtz. -dolomite veins 1/4-1/2" wide 30 deg. to C. A. 200.5 - 202.0 zone of banding with reddish hematitic stain, thin carb. qtz. stringers parallel to foliation @ 30 deg to C. A. two thin grey qtz. veins in this zone with py on contacts 210.0 q.v. 60 deg. to C. A., grey massive py on contacts
232.4	236.1	3.7	Lamprophyre - lower contact 45. deg to C. A. approximately 60 deg. rotation to banding of lower chert unit
236.4	248.4	12.3	Graphitic chert, well foliated, good cleavage 30 deg. to C. A. @ 237.0 , 45 deg. @ 240.0-248.0 carbonate seams throughout 236.1 - 237.4 upper contact not graphitic, appears to have small subsidiary lamprophyre dyke splay, no strong contacts.

			246.5 1/2" conformable qtz. band hematitic contacts. 241.3 - 242.6, 244.5 - 244.6 - chlorite enriched bands with conformable blebs & wisps of pyrite.
248.4	253.3	4.9	Banded chert - graphite 248.4 - 249.6 grey brown chert 45 deg. to C. A. banding 3% f.g. py in blebs & stringers 249.6 - 250.2 graphitic chert 250.2 - 250.6 grey brown chert 250.6 - 251.0 fine gr. chloritic rock chemical sediment? 251.0 - 253.3 chert, 2% py in conformable stringers 45 deg. to C. A.
253.3	259.0	5.7	Altered tuff with chert bands 253.3 - 254.0 3-5% fracture controlled pyrite - very strong carbonate
259.0	270.9	11.9	Chert - py 1-2% disseminated and parallel to foliation graphitic layers 260.0-261.0, 262.3, 263.0-265.0, 270.2-270.9 262.0 soft sediment folding?
270.9	332.7	61.8	Tuffaceous metavolcanic-massive, fine grained, equigranular -280.0-282.0, 285.0-286.0 solution breccia zone with rusty fluid trails host is laced with pale green alteration controlled by irregular jointing or fractures -weak foliation 30 to 45 deg. to C. A. occurring sporadically throughout section 299.0-310.0 -pyrite occurs throughout section as blebs or as irregular or euhedral grains up to 1/4" across, 2-3% overall -298.0-302.0, 320.0-331.0, pyrite as fracture fill to 1/8 inch thickness 331.5 rusty qtz. vein 30 deg. to C. A. 1/4" -lower contact transitional to chert unit 332.5-333.0 silica and biotite approx. 50%

332.7	392.4	59.7	Chert - graphite unit 333.0-334.5 brown biotite-chlorite-chert exhalite 334.5-336.9 graphitic chert 336.9-337.3 hematitic, biotite-chlorite unit 337.3-341.2 graphitic chert 341.2-345.8 hematitic bio-chl-chert 345.8-348.1 massive, weakly bedded siliceous unit with leucoxene 348.1-392.4 chert, buff to white or graphitic over small intervals broken core 363.0-365.0, 366.5-367.0 weak diss. pyrite parallel to host banding 385.4 fold axis perpendicular to C. A., reorientation of foliation through 75 deg. from 45 deg. to C. A. to 30 deg. to C. A., foliation returns to 45 deg. to C. A. @ 387.0
392.4	468.6	76.2	Banded chlorite biotite rock, finely laminated and well foliated - strongly developed cleavage along chloritic slips. Slips are often climbing or imbricated and have calcite fill. Biotite occurs as dark brown band po, py occur as small anhedral blebs representing 1-2% of core, irregular (shear?) slips sub-parallel to C. A. create sections of broken core 400.0-402.0, 412.0-415.0, 425.5-427.0, @ 429, 431-431.5, @ 433.0 408.5, 435.0-437.0, 438.0, 439.0 -original bedding visible through crenulation cleavage running parallel to C. A. folded in open folds less than 1/4" across 441-468.6 unit becomes more massive less coarse biotite and chlorite than above weak foliation @ 45. deg to C. A. jointing 30 and 45 deg. to C. A., slips uncommon, pyrite less than 1% -some irregular biotite wisps re-occur near 467.0 463.2 calcite veinlet 463.5 vuggy epidote stringers
468.6	470.7	2.1	Lamprophyre dyke, contacts 50 deg. to C. A.

470.7	505.0	34.3	Massive tuffaceous rock similar to unit at 152.0-175.0, some small sections of weak foliation cleavage, upper contact area is moderately chloritized 494.5-495.5 lamprophyre dykelet with epidote-calcite stringers on lower contact 497.4-497.7 lamprophyre dykelet
505.0			END OF HOLE

DIAMOND DRILL REPORT

ASSAY RESULTS

PROJECT: Dyment-Kidston
PROPERTY: Gravel Pit

DDH NO. JA89-1
TOWNSHIP: Otto

FROM	TO	LENGTH	SAMPLE #	ASSAY	RECHECK
13.3	14.8	1.5	72338	--	
14.8	19.8	5.0	72339	--	
24.0	29.0	5.0	72340	--	
29.0	34.0	5.0	72341	10	
34.0	39.0	5.0	72342	Nil	
39.0	44.0	5.0	72343	--	
44.0	44.9	.9	72344	--	
49.0	54.0	5.0	72345	Nil	
65.0	70.0	5.0	72346	--	
70.0	75.0	5.0	72347	--	
75.0	80.0	5.0	72348	Nil	
80.0	85.0	5.0	72349	--	
85.0	90.0	5.0	72350	--	
90.0	95.0	5.0	72351	Nil/Nil *	
95.0	100.0	5.0	72352	--	
100.0	105.0	5.0	72353	--	
105.0	110.0	5.0	72354	--	
110.0	115.0	5.0	72355	--	
115.0	117.0	2.0	72356	--	
125.0	130.0	5.0	72357	--	
130.0	135.0	5.0	72358	--	
135.0	140.0	5.0	72359	Nil	
140.0	145.0	5.0	72360	--	
145.0	147.0	2.0	72361	--	
180.0	183.0	3.0	72409	10	
200.0	202.0	2.0	72410	Nil	
237.5	242.5	5.0	72411	--	
242.5	247.5	5.0	72412	--	
247.5	252.5	5.0	72413	Nil	
252.5	257.5	5.0	72414	--	
257.5	259.5	2.0	72415	--	
259.5	264.5	5.0	72416	Nil	
264.5	269.5	5.0	72417	--	
269.5	272.0	2.5	72418	--	

Notes and Reference (Assay Certificate): Swastika Labs 77119

average of two analyses (*)
-- average of four -- " -- (**) ---

272.0	277.0	5.0	72419	--	
277.0	282.0	5.0	72420	Nil	
282.0	287.0	5.0	72421	--	
298.0	303.0	5.0	72422	Nil	
303.0	308.0	5.0	72423	Nil	
330.0	333.0	3.0	72424	Nil	
333.0	338.0	5.0	72425	40/30*	35
338.0	343.0	5.0	72426	Nil	
343.0	346.0	3.0	72427	Nil	
354.0	357.0	3.0	72428	--	
357.0	361.0	4.0	72429	Nil	
370.0	375.0	5.0	72430	--	
375.0	380.0	5.0	72431	--	
380.0	385.0	5.0	72432	--	
385.0	390.0	5.0	72433	--	
390.0	392.5	2.5	72434	Nil	
392.5	397.5	5.0	72435	Nil	
397.5	402.5	5.0	72436	Nil	
402.5	407.5	5.0	72437	--	
475.0	478.0	3.0	72438	Nil	
486.0	487.0	1.0	72439	No assay	
488.5	490.5	2.0	72440	--	

Notes and Reference (Assay Certificate): Swastika Labs 77119

average of two analyses (*)
average of four " (**)

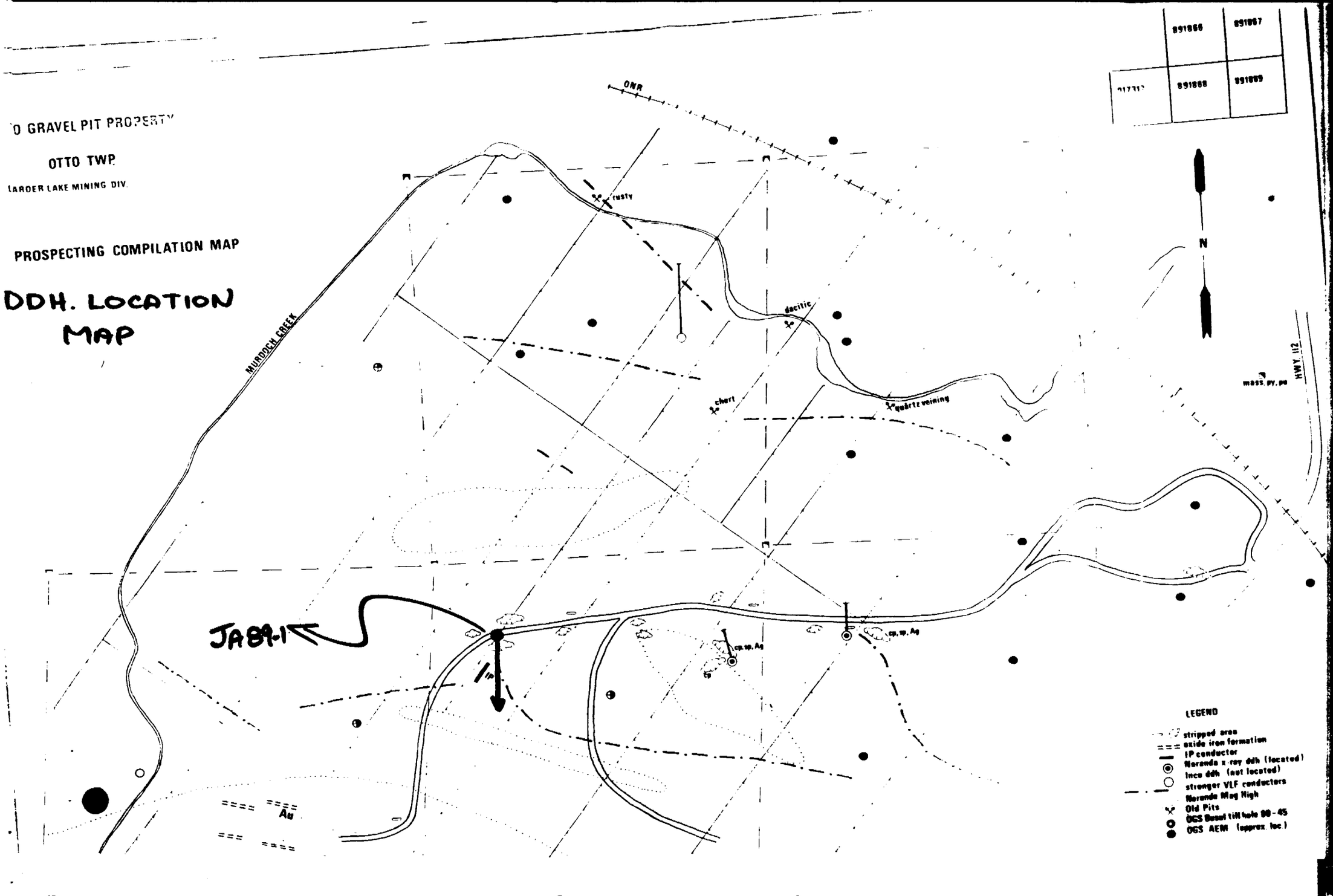
'O GRAVEL PIT PROPERTY

OTTO TWP.

LARDER LAKE MINING DIV.

PROSPECTING COMPILATION MAP

DDH. LOCATION MAP



Ministry of Northern Development and Mines
Ontario

DOCUMENT No. W9008.040
W9009.

42A01SE8910 26 OTTO

900

Mining Act — Report of Work

Name and Address of Recorded Holder
L.M. Dyment
Box. 66 SWASTIKA, ONT. P0K 1T0

Telephone No. 642-3062

Summary of Distribution of Credits and Work Performance

Mining Division	Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.
LARDER LAKE	L	891866	101						
Township or Area: OTTO	L	891867	101						
Total Assessment Credits Claimed: 505	L	891868	101						
	L	891869	101						
	L	917317	101						

Type of Work Performed (Check one only)

- ☐ Manual Work
- ☐ Shaft Sinking Drifting or other Lateral Work
- ☐ Mechanical equipment
- ☐ Power Stripping other than Manual (maximum credit allowed - 100 days per claim)
- ☑ Diamond or other Core drilling
- ☐ Core Specimens

Dates when work was performed	Total No. of Days Performed	Total No. of Days Claimed	Total No. of Days to be Claimed at a Future Date
From: NOV 20/89 To: NOV 22/89	505	505	

All the work was performed on Mining Claim(s): Indicate no. of days performed on each claim. * (See note No. 1 on reverse side)

Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days
L891868	505										

Required Information eg. type of equipment, Names, Addresses, etc. (See Table on reverse side)
If space below is insufficient, attach schedules with required information and location sketches

WORK PERFORMED UNDER CONTRACT BY:

HEATH & SHERWOOD DRILLING
KIRKLAND LAKE, ONT

DRILL LOGS & SKETCH MAPS ATTACHED
BQ CORE.

ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES
OFFICE
MAR - 2 1990
RECEIVED

Certification of Beneficial Interest * (See Note No. 2 on reverse side)

I hereby certify that, at the time the work was performed, the claims covered in this report of work were recorded in the current recorded holder's name or held under a beneficial interest by the current recorded holder.

Date: Jan 3/89 — Recorded Holder or Agent (Signature): L.M. Dyment

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 Address of Person Certifying: L. MIKE DYMENT. Box 66. SWASTIKA, ONT P0K 1T0

Telephone No. 642-3062 — Date: Jan 3/89 — Certified By (Signature): L.M. Dyment

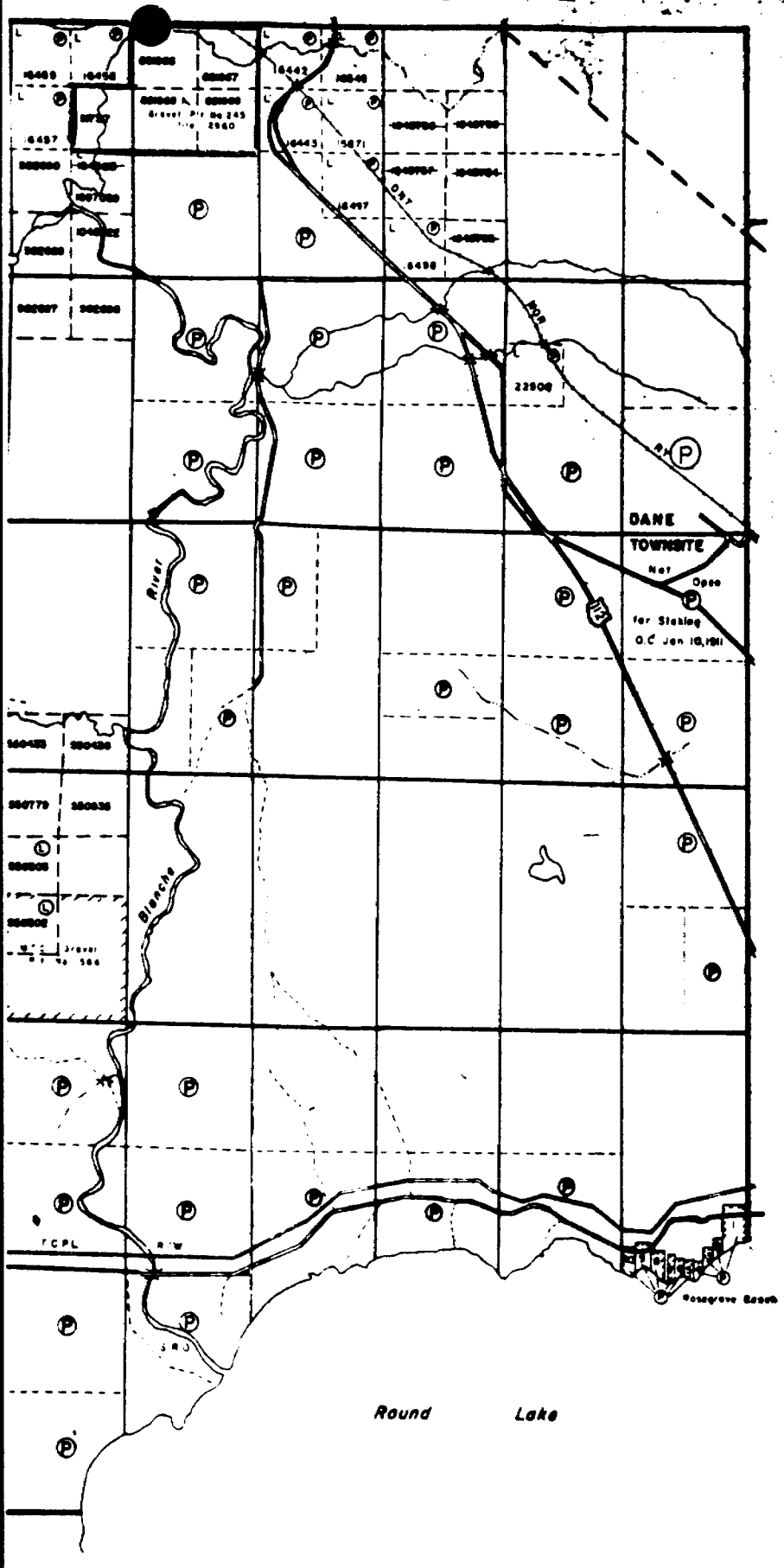
For Office Use Only

Work Assignments
L. 891868 L.M. Dyment 404 3562.7

RECEIVED
JAN 8 1990
11:34

TP. - M.392

6 5 4 3 2 1



BOSTON TP. - M.332

TP. - M.362

THE TOWNSHIP

[redacted]

JULY [redacted] 89

MINISTRY OF NORTHERN DEVELOPMENT AND MINES
RES. GEOLOGIST OFFICE
KIRKLAND LAKE
RECEIVED
[redacted] 1989

DISTRICT OF TIMISKAMING

LARDER LAKE MINING DIVISION

SC[redacted]NCH-40 CHAINS

LEGEND

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

NOTES

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

(R) SURFACE AND MINING RIGHTS WITHDRAWN FROM STAKING SEC. 36/60, W.D/68, JAN. 24, 1968.

* APPLICATION UNDER THE PUBLIC LANDS ACT SEC. 31 (b) OF THE MINING ACT

CL-5029 DISPOSITION OF CROWN LAND

NOTICE OF FORESTRY ACTIVITY

THIS TOWNSHIP / AREA FALLS WITHIN THE _____ TIMISKAMING MANAGEMENT UNIT

AND MAY BE SUBJECT TO FORESTRY OPERATIONS. THE MNR UNIT FORESTER FOR THIS AREA CAN BE CONTACTED AT: P.O. BOX 129
SWASTIKA, ONT.
P0K 1T0
705-642-3222

PLAN NO.- M-379

MINISTRY OF NORTHERN DEVELOPMENT AND MINES

Otto Twp

TECK TP. - M.392

