OP 89-65
42A01SE0119 63.5599 OTTO
010

DYMENT-KIDSTON PROPERTY

OTTO TWP.

LARDER LAKE MINING DIVISION

CLAIM NUMBERS

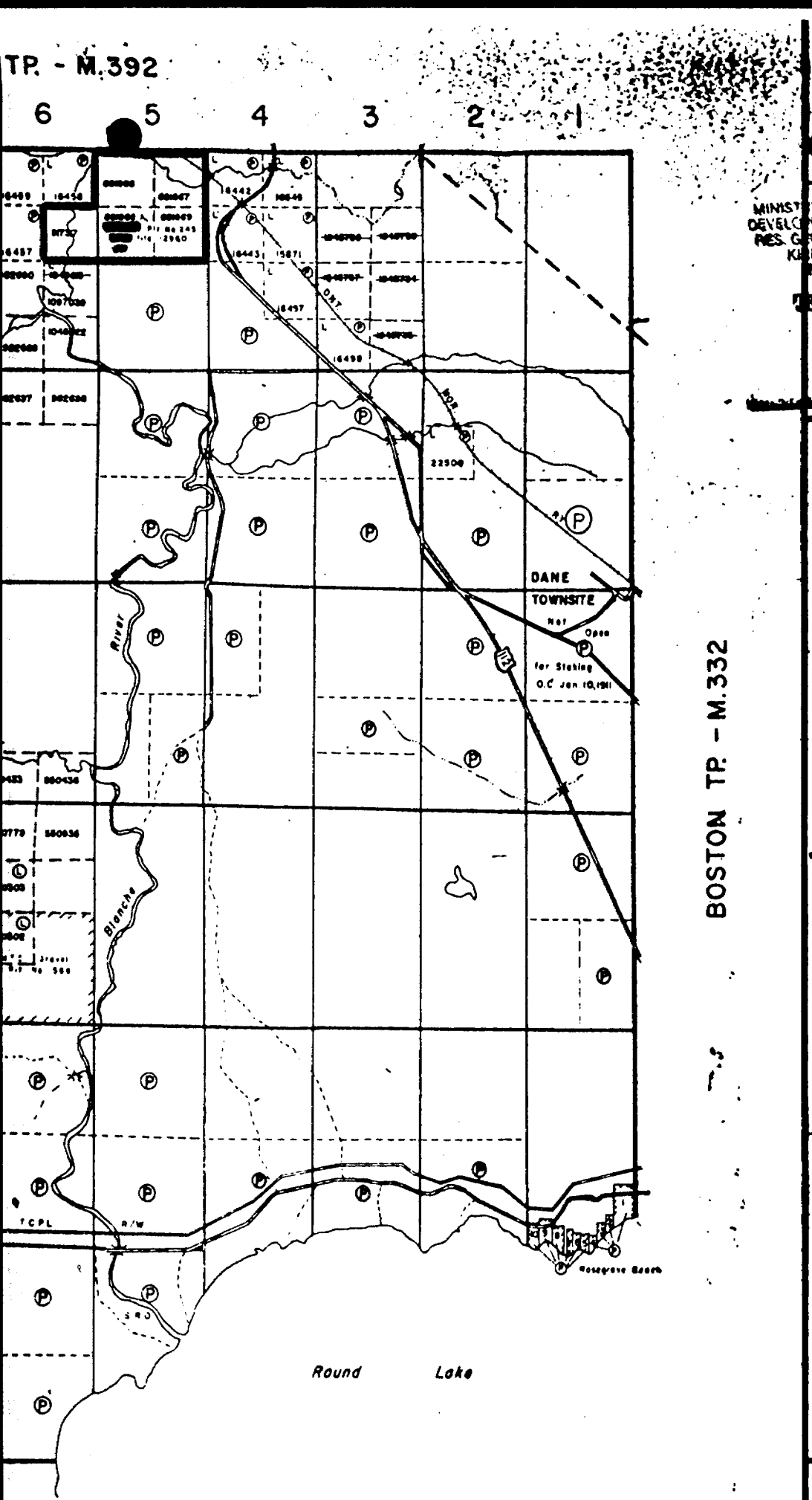
L891866	NW1/4	N1/2	Lot 5	Con VI
L891867	NE1/4	N1/2	Lot 5	Con VI
L891868	SW1/4	N1/2	Lot 5	Con VI
L891869	SE1/4	N1/2	Lot 5	Con VI
L917317	SE1/4	N1/2	Lot 6	Con VI

GEOLOGY AND PROSPECTING TARGET

The property is bordered to the south by the Otto stock. Oxide iron formation and massive (pyrite) sulphides can be found at the eastern and western parts of the property. Numerous flows can be recognized throughout the property with interflow sediments appearing as EM ground conductors. A cherty to dacitic showing towards the center of the property is presently the main polymetallic exploration target. The interflow sediments (argillite) show anomalous values of Cu, Zn, Ag, throughout the property. A less permeable volcanogenic host will be the present exploration target.

PROPERTY HISTORY

Ground held under patent until 1965.
Inco drilled AXT hole in 1968.
Noranda geophysical surveys (Mag, HEM) in 1976.
KLIP program (Airbourne) indicates numerous conductors in 1979.
KLIP program (Overburden drilling) hole #80-45 shows best base metal results of entire program.
Dyment and Kidston acquire ground and do preliminary work 1979-84
Dyment and Kidston reacquire ground in 1986 and have to date: mechanically stripped, sampled, cut new grid and geophysically surveyed the property.



JULY 01 1989

MINISTRY OF NORTHERN DEVELOPMENT AND MINES
RES. GEOLOGIST OFFICE
KIRKLAND LAKE
RECEIVED
JUL 17 1989

DISTRICT OF TIMISKAMING

LARDER LAKE MINING DIVISION

SCALE 1 INCH=40 CHAINS

LEGEND

PATENTED LAND	● or (P)
CROWN LAND SALE	C.S.
LEASES	(L) Lec.
LOCATED LAND	L.O.
LICENSE OF OCCUPATION	M.R.O.
MINING RIGHTS ONLY	S.R.O.
SURFACE RIGHTS ONLY	
ROADS	
IMPROVED ROADS	
KING'S HIGHWAYS	
RAILWAYS	
POWER LINES	
MARSH OR MUSKEG	
MINES	
CANCELLED	
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(R) SURFACE AND MINING RIGHTS WITHDRAWN FROM STAKING SEC. 36/80, W.R./88, JAN. 24, 1986

* APPLICATION UNDER THE PUBLIC LANDS ACT SEC. 35 (b) OF THE MINING ACT

CL.5089 DISPOSITION OF CROWN LAND

NOTICE OF FORESTRY ACTIVITY

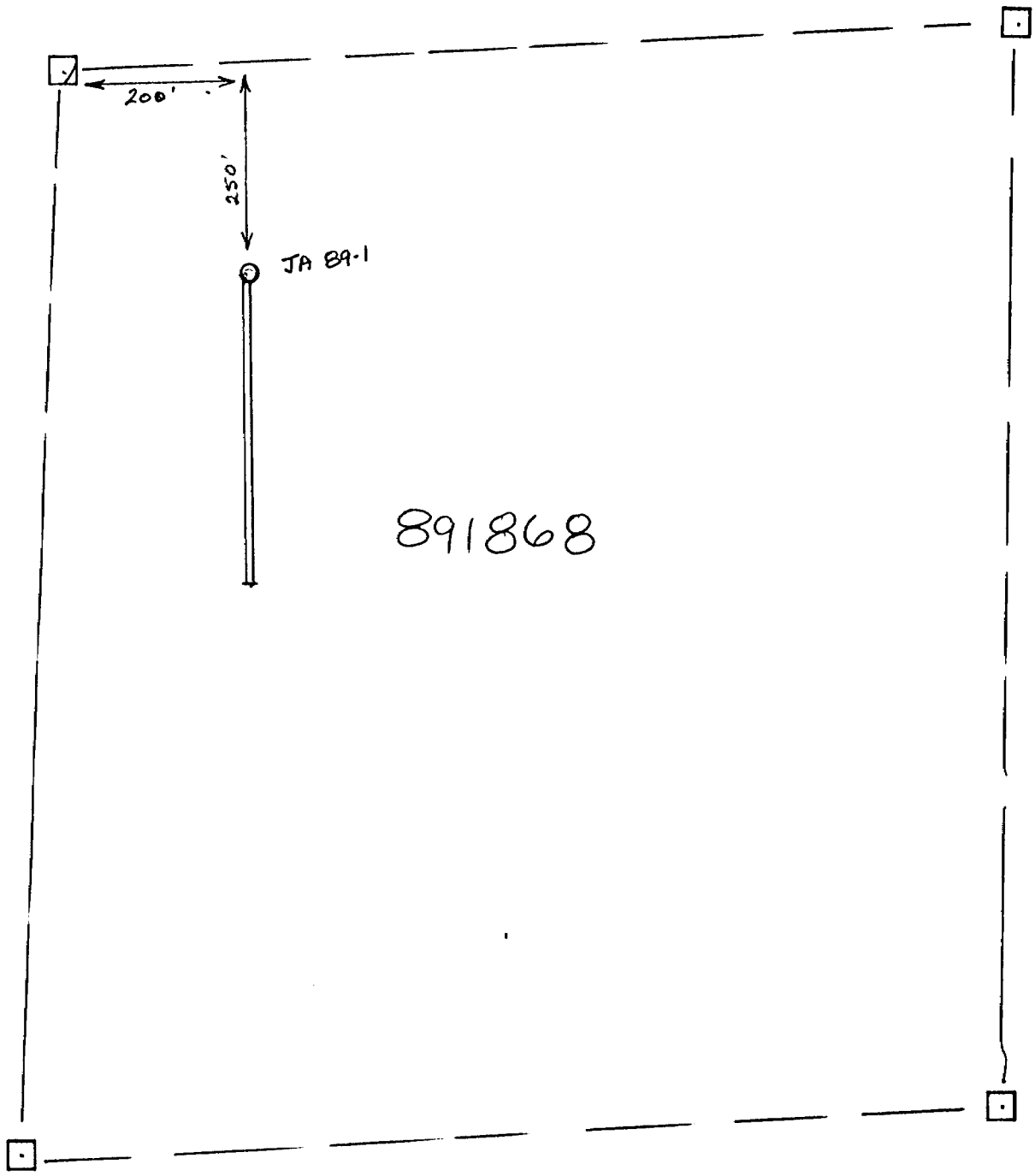
THIS TOWNSHIP / AREA FALLS WITHIN THE _____ TIMISKAMING MANAGEMENT UNIT

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

DRILL HOLE LOCATION
J.A. KIDSTON
OTTO TWP GRAVEL PIT PROPERTY



Scale 1" = 200'

QUEENSTON GROUP for T.A. KIDSTON
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

PROPERTY: Gravel Pit
TOWNSHIP: Otto
PROVINCE/NTS: Ontario
LOCATION:
(re Grid):

ELEV:
AZIM: 180 deg
DIP: -45 deg
500' Dip test -41 deg

CONTRACTOR: Heath & Sherwood

LOGGED BY: W. J. McGuinty (re Claim): L 891868

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

DDH NO. JA89-1

PROPERTY: Gravel Pit

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 " (**)

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Established 1928

Certificate of Analysis

Certificate No. 77119 Date Dec. 14, 1989

Received Dec. 11, 1989 56 Sawn Core Samples

Submitted by Jocelyne Kidston, Swastika, Ontario.

SAMPLE NO.	GOLD PPB	SILVER PPM	ZINC %	NICKEL %
72338	---	0.3	0.12	---
72339	---	0.2	0.03	---
72340	---	0.2	0.02	---
72341	10	0.2	0.02	---
72342	Nil	0.2	0.02	---
72343	---	0.7	0.08	0.07
72344	---	0.6	0.14	0.02
72345	Nil	0.5	0.13	---
72346	---	0.3	0.10	---
72347	---	0.3	0.10	---
72348	Nil	0.3	0.18	---
72349	---	0.4	0.15	---
72350	---	0.5	0.09	---
72351	Nil/Nil	0.6	0.18	---
72352	---	0.5	0.13	---
72353	---	0.8	0.14	---
72354	---	0.3	0.12	---
72355	---	0.2	0.03	---
72356	---	0.2	0.16	---
72357	---	0.2	0.04	---
72358	---	0.2	0.05	---
72359	Nil	0.4	0.08	---
72360	---	0.8	0.07	---

Con't....

Per G. Lebel

G. Lebel - Manager /ns

CTA Member Canadian Testing Association

P.O. Box 10, Swastika, Ontario P0K 1T0

Telephone (705) 642-3244 FAX (705) 642-3300

SAMPLE NO.	GOLD PPB	SILVER PPM	ZINC %	SAMPLE NO.	GOLD PPB	SILVER PPM	ZINC %
72361	---	0.3	0.005	72425	40/30	0.1	0.03
72409	10	---	---	72426	Nil	0.5	0.50
72410	Nil	---	---	72427	Nil	0.3	0.44
72411	---	0.8	0.23	72428	---	0.2	0.04
72412	---	0.5	0.14	72429	Nil	0.2	0.16
72413	Nil	0.6	0.28	72430	---	0.1	0.04
72414	---	0.4	0.23	72431	---	0.1	0.04
72415	---	0.3	0.09	72432	---	0.1	0.09
72416	Nil	0.2	0.04	72433	---	0.3	0.13
72417	---	0.2	0.01	72434	Nil	0.3	0.05
72418	---	0.4	0.25	72435	Nil	0.1	0.01
72419	---	0.2	0.08	72436	Nil	0.1	0.01
72420	Nil	0.3	0.005	72437	---	0.1	0.005
72421	---	0.1	0.005	72438	Nil	---	---
72422	Nil	---	---	72440	---	1.3	0.005
72423	Nil	---	---				
72424	Nil	0.1	0.03				

NOTE: Whole rock analysis results to follow.

Per G. Lebel - Manager

CTA Member Canadian Testing Association

Established 1928

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Certificate of Analysis

Certificate No. 77119 A Date December 18, 1989

Received December 11, 1989 1 Sample of Sawn Core

Submitted by Jocelyne Kidston, Swastika, Ontario

WHOLE ROCK ANALYSIS

		SAMPLE NO: 72439
SiO_2	%	53.08
Al_2O_3	%	14.52
Fe_2O_3	%	10.24
CaO	%	6.76
MgO	%	7.97
Na_2O	%	4.05
K_2O	%	0.66
TiO_2	%	0.95
MnO	%	0.17
P_2O_5	%	0.24
LOI	%	1.30
Ba	PPM	298
Cr	PPM	159
Nb	PPM	51
Sr	PPM	196
Y	PPM	<10
Zr	PPM	48

Per G. Lebel

G. Lebel-Manager/rl

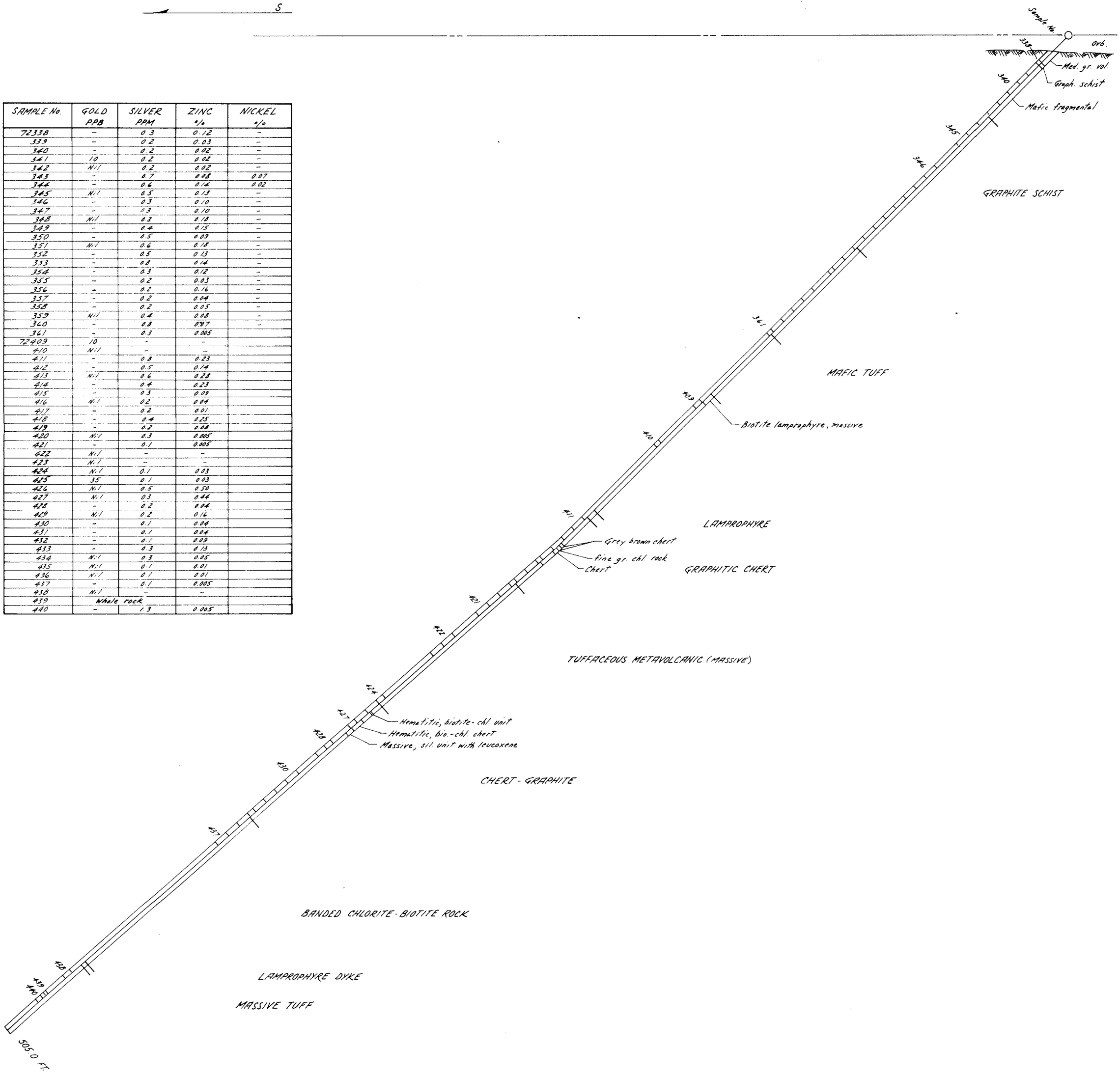
CTA Member Canadian Testing Association

P.O. Box 10, Swastika, Ontario P0K 1T0

Telephone (705) 642-3244. FAX (705) 642-3300

S

SAMPLE No.	GOLD PPB	SILVER PPM	ZINC %	NICKEL %
72338	–	0.3	0.12	–
339	–	0.2	0.03	–
340	–	0.2	0.02	–
341	10	0.2	0.02	–
342	Nil	0.2	0.02	–
343	–	0.7	0.08	0.07
344	–	0.6	0.14	0.02
345	Nil	0.5	0.13	–
346	–	0.3	0.10	–
347	–	0.3	0.10	–
348	Nil	0.3	0.18	–
349	–	0.4	0.15	–
350	–	0.5	0.09	–
351	Nil	0.6	0.18	–
352	–	0.5	0.13	–
353	–	0.8	0.14	–
354	–	0.3	0.12	–
355	–	0.2	0.03	–
356	–	0.2	0.16	–
357	–	0.2	0.04	–
358	–	0.2	0.05	–
359	Nil	0.4	0.08	–
360	–	0.8	0.07	–
361	–	0.3	0.005	
72409	10	–	–	
410	Nil	–	–	
411	–	0.8	0.23	
412	–	0.5	0.14	
413	Nil	0.6	0.28	
414	–	0.4	0.23	
415	–	0.3	0.09	
416	Nil	0.2	0.04	
417	–	0.2	0.01	
418	–	0.4	0.25	
419	–	0.2	0.08	
420	Nil	0.3	0.005	
421	–	0.1	0.005	
422	Nil	–	–	
423	Nil	–	–	
424	Nil	0.1	0.03	
425	35	0.1	0.03	
426	Nil	0.5	0.50	
427	Nil	0.3	0.44	
428	–	0.2	0.04	
429	Nil	0.2	0.16	
430	–	0.1	0.04	
431	–	0.1	0.04	
432	–	0.1	0.09	
433	–	0.3	0.13	
434	Nil	0.3	0.05	
435	Nil	0.1	0.01	
436	Nil	0.1	0.01	
437	–	0.1	0.005	
438	Nil	–	–	
439	Whole rock			
440	–	1.3	0.005	



OP 89-65 63.5599

PROV.	ONTARIO	JOCELYNE-ANNE, KIDSTON
TWP.	OTTO	OPAP PROJECT 89-065
NTS	42A1	DRILL SECTION
REF.		DDH No. JA-89-1
DWN. BY	R	GRAVEL PIT PROJECT
REVISIONS / DATE / BY		SCALE 1" = 20' / DATE DEC./89 / PLATE

Jan 13, '9

42A01SE0119 63.5599 OTTO