DIAMOND DRILLING

AREA: BAD VERMILLION REPORT NO: 32

WORK PERFORMED FOR: Orofino Resources

RECORDED HOLDER: Same as above [xx]
: Other [ ]

Claim No.	Hole No.	Footage	Date	Note
K 875544	437-87-1	149'	Aug/87	(1)
	437-87-2	231.2'	Aug/87	(1)
K 875547	437-87-3	159'	Aug/87	(1)
K 875551	437-87-4	429'	Aug/87	(1)
K 875548	437-87-5	219'	Aug/87	(1)
K 875551	437-87-6	429'	Aug/87	(1)
		1616.2		

NOTES: (1) #W8801.132, filed in Oct/88

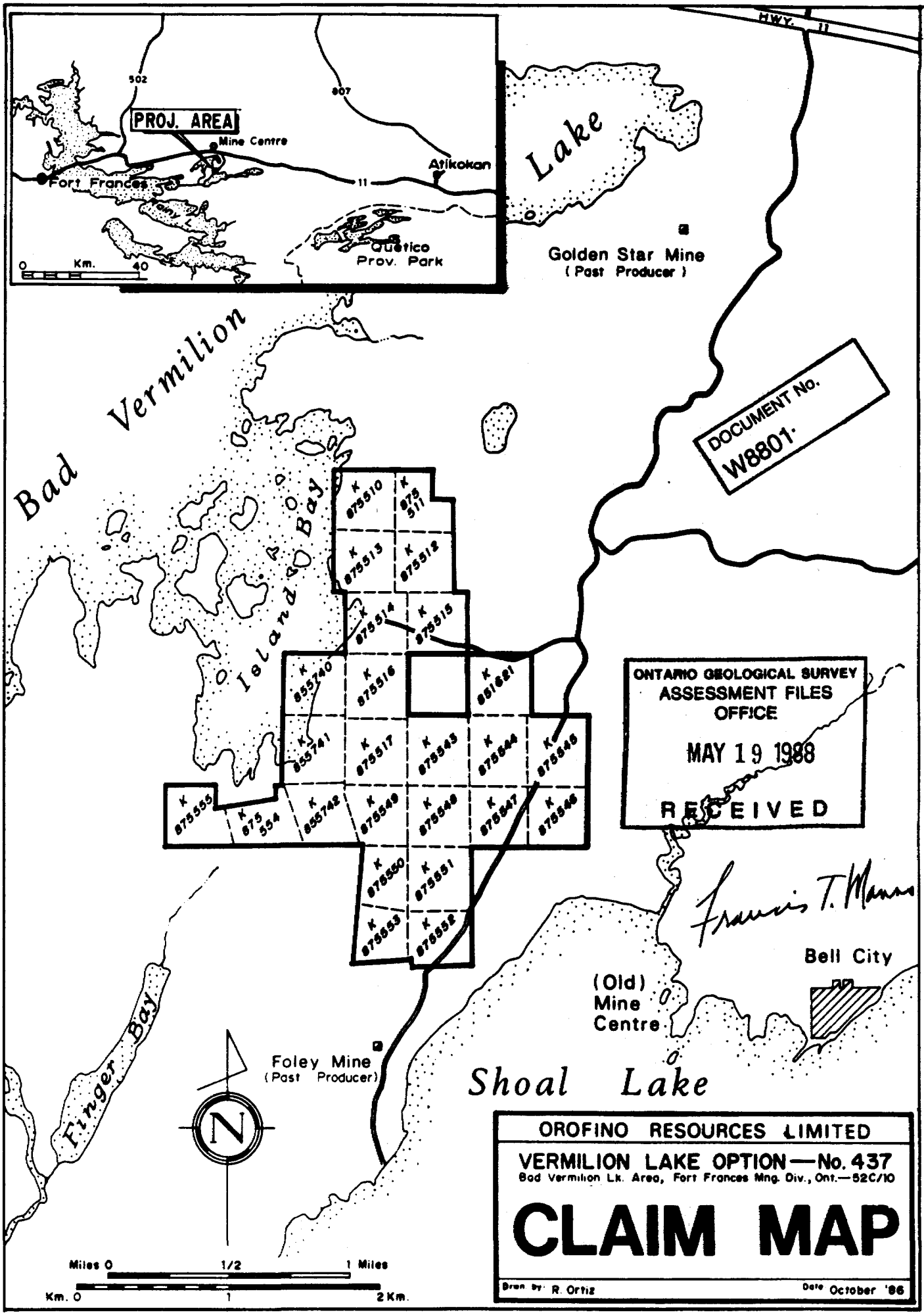
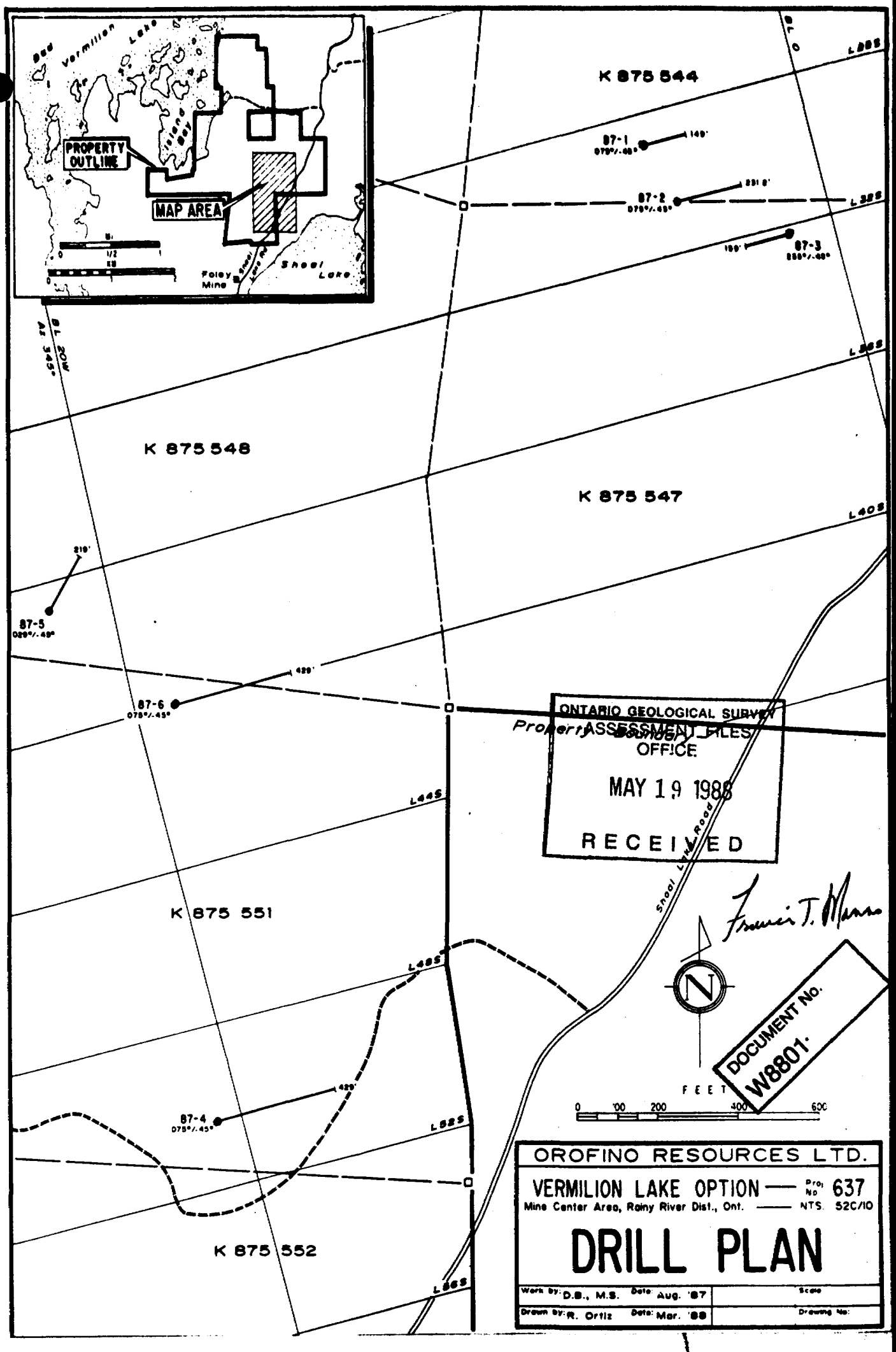

HWY. 11
PROJ. AREA
Mine Centre
Fort Frances
Atikokan
Quetico Prov. Park
0 Km. 40
Lake
Golden Star Mine
(Past Producer)
Bad Vermilion
Island Bay
DOCUMENT No.
W8801
K 875510
K 875511
K 875513
K 875512
K 875514
K 875515
K 855740
K 875516
K 861621
K 855741
K 875517
K 875543
K 875544
K 875545
K 875555
K 875554
K 855742
K 875549
K 875548
K 875547
K 875546
K 875550
K 875551
K 875553
K 875552
ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES
OFFICE
MAY 19 1988
RECEIVED
Francis T. Manns
Bell City
(Old) Mine Centre
Foley Mine
(Past Producer)
Finger Bay
Shoal Lake
N
Miles 0 1/2 1 Miles
Km. 0 1 2 Km.
OROFINO RESOURCES LIMITED
VERMILION LAKE OPTION — No. 437
Bad Vermilion Lk. Area, Fort Frances Mng. Div., Ont. — 52C/10
CLAIM MAP
Drawn by: R. Ortiz
Date October '86

FIG. -1-



OROFINO RESOURCES LTD.

VERMILION LAKE OPTION — Proj. No. 637

Mine Center Area, Rainy River Dist., Ont. — NTS. 52C/10

DRILL PLAN

Work by: D.B., M.S.	Date: Aug. '87	Scale
Drawn by: R. Ortiz	Date: Mar. '88	Drawing No:

Francis T. Manns

OROFINO RESOURCES LIMITED

P.O. BOX 143, 1 FIRST CANADIAN PLACE, TORONTO, CANADA M5X 1C7 TELEPHONE: (416) 362-6683 TELEX: 06-217766

Property: VERMILLION LAKE #437
Location: 28+78S; 4+17W
Co-ordinates:
Claim: K-875544
Section:
Length: 149'
Elevation:
Azimuth: 075° Dip: -45°

HOLE: 437-87-1
Core size: BQ

Dip Tests: None
Started: August 2, 1987
Completed: August 3, 1987
Logged by: Mary Stalker

DRILL LOG

DEPTH from	DEPTH to	DESCRIPTION NOTE: All angles are measured with respect to the long core axis.	sample number	width	from	to	ASSAYS Au oz/t	ASSAYS Ag oz/t
0.0	14.0	CASING 13.0-14.0 trondhjemite and microgranite/aplite boulders (broken core)						
14.0	57.5	MASSIVE TRONDHJEMITE -mainly qtz and feldspar with distinct grains of chlorite and some biotite and carbonate in blebs throughout, chlorite may be from alt. of biotite, feldspar moderately sauss'zed -occasional hairline fractures (@35° and @70°) often filled with chlorite -occasional fine to medium euhedral of pyrite (trace) -unit includes small sections of weakly to moderately altered trondjemite which gives the chlorite and biotite fuzzy grain boundaries instead of their original distinct look, plagioclase is more strongly sauss'zed, start to get qtz eyes, core is more frequently fractured - these sections are found at 14.1-14.5' (with 5% disseminated fine grain pyrite throughout zone); 19.6-20.1 24.1-25.7'; 28.5-29.0'; 37.0-37.9' (with 2 qtz/carbonate string of 1/8" -- 70°); 41.9-42.4' (with 1 wispy and 1 regular (55°) 1/8" chlorite string); 43.2-43.8'. 14.0-14.1 APLITE DYKE -pink, fine grain, sugary texture with minor epidote -sharp, regular bottom contact (60°) (core begins in aplite therefore top contact not observed) -5% fine grain disseminated pyrite						
		15.0-16.7 MICROGRANITE/APLITE DYKE -pink, sugary texture, from 15.0-15.6 all components of dyke (qtz, feldspar biotite, chlorite and epidote) are fine grain, from 15.6-16.7 matrix is fine but have coarse qtz eyes, coarse well sauss'zed feldspar, coarse biotite and chlorite -both contacts sharp, regular (50°) -many hairline fractures filled with chlorite, qtz or both (35°) -with occasional medium grain euhedral pyrite grains mostly in fine grain part of dyke (1%)	4701	1.7	15.0	16.7	Tr	0.40

Francis T. Manns

DEPTH from	DEPTH to	DESCRIPTION NOTE: All angles are measured with respect to the long core axis.	sample number	width	from	to	ASSAYS Au oz/t	ASSAYS Ag oz/t
		14.0-57.5 MASSIVE TRONDHJEMITE (con't)						
		26.6-30.1 GRANODIORITE -similar to rest of unit but plagioclase is pink to creamy (instead of beige) and plagioclase grains are distinct euhedrals up to 1/8"						
		47.2-48.0 GRANODIORITE -same as 26.6-30.1						
57.5	74.5	WEAKLY TO MODERATELY SHEARED TRONDHJEMITE -the trondhjemite loses the distinct boundaries of the biotite and chlorite grains, has occasional qtz eyes and is more frequently fractured then the massive trondhjemite -most of unit moderately foliated (≯40°) -carbonate disseminated throughout -hairline fractures (≯35°, 60-75°) filled with carbonate or chlorite or both -small euhedral cubes of pyrite (1%) -contact is gradual and was picked due to an increase of altered section although massive sections can be found at 63.5-64.9'; 68.2-68.9'; 70.4-71.0' -small intervals (≮2") of strongly sheared non-carbonate trondhjemite become more common towards bottom of hole						
74.5	86.6	STRONGLY SHEARED TRONDHJEMITE -light green, highly sericitized, highly sauss'zed trondhjemite, qtz eyes (1/8") make up a major amount of unit increasing with increasing shearing -only occasional distinct grain of biotite or chlorite -occasional foliation is observed (≯40°) -with many fractures and stringers up to 1/8" (55-70°) filled mainly with carb. -occasional fine euhedral cubes of pyrite or fine grain pyrite in blebs (½%)	4702 4703 4704 4705	2.0 2.0 5.5 2.6	74.5 76.5 78.5 84.0	76.5 78.5 84.0 86.6	Tr Tr Tr Tr	0.64 NIL 0.40 NIL
		75.5-75.8 -1/4" grainy clear qtz stringers 76.4 -1/4" grainy clear qtz stringers (90°) with graphite flakes 76.4-77.1 -APLITE DYKE ½" pink, medium grain, sugary dyke (20°) with 1% pyrite as medium grain euhedral cubes, more pyrite in wallrock surrounding dyke 77.1-77.4 -rusty, broken, weathered looking core, some ankerite staining -fault gouge? 77.7-77.9 -APLITE DYKE same as 76.4-77.1 but end cut by fracture 78.0 -1/4" white qtz stringers 86.0-86.6 -well foliated section (≯45° to 50°) with many ≮1/4" qtz and qtz/carb stringers following foliation, many carb blebs (¼")						

DEPTH from	DEPTH to	DESCRIPTION NOTE: All angles are measured with respect to the long core axis.	sample number	width	from	to	ASSAYS Au oz/t	ASSAYS Ag oz/t
86.6	100.0	WHITE QUARTZ VEIN -white opaque qtz with many hairline fractures filled with carb sericite chlorite -upper contact slightly irregular (∠40°), bottom contact regular (∠35°) -broken and missing core increases in this zone -no minerals till 88.7 88.7-89.0 -a wallrock (strongly sheared trond) inclusion that contains 5% py as fine grain euhedral cubes or fine grain pyrite in blebs 89.0-90.0 -white qtz with 3% galena, 2% sphalerite, 1% cpy, 5% pyrite, at 89.8' pyrite forms discontinuous stringers of 1/8" (55°) 90.0-90.5 -qtz has inclusions of well altered trond containing coarse euhedral pyrite grains 90.5-91.0 -strongly sheared trond - same as 74.5-86.6' but with 5% pyrite -with two ½" qtz veins (90°) and many qtz pods -irregular upper contact (∠65°), bottom contact partly missing (∠80°) 91.0-91.4 -qtz with inclusions (2") of wallrock with coarse grain euhedrals of pyrite (5%), 3% sphalerite 95.2-95.4 -with a few 1" pods of carbonate 95.4-95.6 -fracture filled with pyrite (½"), trace cpy 95.7-97.5 -strongly sheared trond; same as 74.5-86.6, moderate foliation (35-40°) -irregular upper contact, bottom contact semi - regular (35°) -with a few 1/8" qtz stringers (75°) -1% pyrite as medium grain euhedral cubes -at 96.7-97.2, ½" white qtz vein (15°) 98.1-98.8 -white qtz with 5% sphalerite, 3% po, 2% pyrite 99.2-99.8 -white qtz with 20% po, 5% sphalerite, 5% cpy, 3% pyrite found in widened fractures or blebs including a 2" pod of po and trace of other sulphides	4706 4707 4708 4709 4710 4711 4712	1.9 2.0 1.0 2.0 2.2 1.8 2.5	86.6 88.5 90.5 91.5 93.5 95.7 97.5	88.5 90.5 91.5 93.5 95.7 97.5 100.0	Tr .06 Tr Tr Tr Tr Tr	NIL 0.50 NIL NIL NIL 0.55 NIL
100.0	123.9	STRONGLY SHEARED TRONDHJEMITE -same as 74.5-86.6 -often foliated (35-40°) -fine to medium grain pyrite as euhedral grains 106.7-107.0 -2" white qtz vein with ¼" blebs of carbonate (10%) and trace chl. 116.6-116.9 -½" white qtz vein (40°) with blebs of carbonate 118.4-118.6 -1" white qtz vein (45°) with blebs of carb, hairline stringers of *tourmaline* 123.7-123.8 -½" irregular qtz stringers (∠75°) with 1% coarse grain galena,	4713 4714 4715 4716 4717 4718 4719	2.5 3.7 1.3 5.0 5.0 5.5 0.9	100.0 102.5 106.2 107.5 112.5 117.5 123.0	102.5 106.2 107.5 112.5 117.5 123.0 123.9	Tr Tr Tr Tr Tr Tr Tr	NIL NIL NIL NIL NIL NIL NIL

DEPTH from	DEPTH to	DESCRIPTION NOTE: All angles are measured with respect to the long core axis.	sample number	width	from	to	ASSAYS Au oz/t	ASSAYS Ag oz/t			
123.9	149.0	MODERATELY TO WEAKLY SHEARED TRONDHJEMITE -same as 57.5-74.5 except for increase in hairline fractures filled with qtz and carbonate -many blebs of carbonate, frequent ankerite staining -foliation occasionally observed (45°), trace euhedral pyrite cubes -gradual contact and unit includes small sections of strongly sheared trond.									
	149.0	END OF HOLE									

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ASSAY SUMMARIES

DRILL HOLE NUMBER	FOOTAGE from	FOOTAGE to	SAMPLE NUMBER	ASSAYED BY: Custom F.A. BW	SW	XR	THR	VALUE Au oz/t	Ag oz/t	REFERENCE: Drill Log	Sample dispatch	Assay Result	Re-Assayed SAMPLE NUMBER	ASSAYED BY: BW	SW	XR	THR	VALUE Au oz/t	Ag oz/
437-87-1	1.7	15.0	4701					Tr.	0.40	X	X	X							
	74.5	76.5	4702					"	0.64	"	"	"							
	76.5	78.5	4703					"	Nil	"	"	"							
	78.5	84.0	4704					"	"	"	"	"							
	84.0	86.6	4705					"	"	"	"	"							
	86.6	88.5	4706					"	"	"	"	"							
	88.5	90.5	4707					.06	0.50	"	"	"							
	90.5	91.5	4708					"	"	"	"	"							
	91.5	93.5	4709					"	"	"	"	"							
	93.5	95.7	4710					"	"	"	"	"							
	95.7	97.5	4711					"	0.55	"	"	"							
	97.5	100.0	4712					"	"	"	"	"							
	100.0	102.5	4713					"	"	"	"	"							
	102.5	106.2	4714					"	"	"	"	"							
	106.2	107.5	4715					"	"	"	"	"							
	107.5	112.5	4716					"	"	"	"	"							
	112.5	117.5	4717					"	"	"	"	"							
	117.5	123.0	4718					"	"	"	"	"							
	123.0	123.9	4719					"	"	"	"	"							

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P.O. BOX 143, 1 FIRST CANADIAN PLACE, TORONTO, CANADA M5X 1C7 TELEPHONE: (416) 362-6683 TELEX: 06-217766

Property: VERMILLION LAKE #437
Location: 30+60S; 3+76W
Co-ordinates:
Claim: K-875544
Section:
Length: 231.2
Elevation:
Azimuth: 075° Dip: -45°

HOLE: 437-87-2
Core size: BQ

Dip Tests: None
Started: August 3,1987
Completed: August 5, 1987
Logged by: D. Burrows

DRILL LOG

DEPTH from	DEPTH to	DESCRIPTION NOTE: All angles are measured with respect to the long core axis.	sample number	width	from	to	ASSAYS Au oz/t	ASSAYS Ag oz/t
0.0	3.6	CASING						
3.6	12.8	BROKEN, FRACTURED, WEAK TO MODERATE SHEARED TRONDHJEMITE STRONGLY ALTERED -brown ankerite -- possible surface weathering -at 2.0' 45° qtz stringers	4720 4721 4722	2.5 2.5 2.5	3.6 6.1 8.6	6.1 8.6 11.1	Tr. Tr. Tr.	Nil Nil Nil
12.8	14.6	WEAK TO MODERATELY SHEARED TRONDHJEMITE -biotite and plagioclase altered to chlorite and sericite respectively -1-2% disseminated pyrite -at 13.1 and 14.9' 1cm qtz-carbonate stringers	4723 4724	2.5 1.0	11.1 13.6	13.6 14.6	Tr. Tr.	Nil Nil
14.6	23.5	STRONGLY SHEARED TRONDHJEMITE -pseudo coarse grained due to increase in size of qtz phenocyrsts (ie: silicification) -matrix largely sericite and epidote? -1-2% pyrite disseminated throughout -at 15.2' ½cm qtz-carbonate 60° stringers -at 22.0' 1-6mm qtz-carb-sphalerite 25° in locally moderately sheared and altered trondhjemite	4725 4726 4727 4728	1.5 2.5 2.5 2.4	14.6 16.1 18.6 21.1	16.1 18.6 21.1 23.5	0.04 Tr. Tr. Tr.	Nil Nil Nil Nil
23.5	45.5	WEAK TO MODERATELY SHEARED TRONDHJEMITE -still relict plagioclase outlines dispite strong sericitization -1-2% disseminated py; increase py (ie: 2-3% in following zones) 36.3-36.6 several small mm qtz-carbonate 0-10° fractures 38.7' 3mm clot of pyrite associated with qtz-carbonate microfractures 42.2-43.3 strong shearing with qtz-carbonate flooding -all trondhjemite has small ≤1mm ankerite stringers at 5-10cm intervals -from 28.0-28.6' is a buff-brown zone of carbonate (ankerite) alteration	4729 4730 4731 4732	5.0 5.0 5.0 5.0	23.5 28.5 33.5 38.5	28.5 33.5 38.5 43.5	Tr. Tr. Tr. Tr.	Nil Nil Nil Nil

Francis T. Hannon

DEPTH from	DEPTH to	DESCRIPTION NOTE: All angles are measured with respect to the long core axis.	sample number	width	from	to	ASSAYS Au oz/t	ASSAYS Ag oz/t
45.5	106.0	MASSIVE TRONDHJEMITE -showing variable degree of alteration 45.5-49.0 weak chloritization and sauss'zation with minor (discrete) zones of strong shearing and alteration 49.0-51.4 weak-moderate alteration (chlorization and sericitization) 51.4-54.2 increased sericitization associated with 1-2mm microfractures with 1-3mm albitization selvage -at 59.4' 40° 1cm qtz-carbonate veinlets, 1-1.5mm cubes of pyrite adjacent to vein 62.0-64.0 moderate albitization of trondhjemite as a result of irregular micro-fractures, increased pyrite						
70.2	106.0	REGION OF MODERATE TO STRONG SHEARING -and chloritization within more massive trondhjemite above and below; 1-2% disseminated pyrite OR may be more mafic phase (ie. tonalite) -at 70.6' 20° chlorite-qtz shear/vein 73.5-83.4 minor 30-50° 1mm qtz-carb stringers, with pyrite at 79.2' & 82.0' 100.2-102.0 slightly increased sericitization -at 101.7' 1-2mm 15° carbonate stringers 105.0-106.0 minor carbonate stringers at 60-70° -section overall no significant (re: trace) pyrite	4733	5.0	70.2	75.2	Tr.	Nil
106.0	122.5	MODERATELY SHEARED TRONDHJEMITE -start to lose igneous texture -at 106.7' 90° silicified microfractures with pyrite 106.0-108.0 1-2% disseminated pyrite 110.3-110.9 two qtz-carb, minor tourmaline-cpy-py, qtz veins at 101.3 (1cm, 30°) and at 101.6' (20° irregular) 119.4-119.8 2-3cm 25° qtz vein; 1-2cm clots of po, py very minor cpy, sphalerite and galena -at 121.2' 3mm qtz-pyrite 45° vein -at 121.8' 1cm qtz-pyrite 40° vein	4734 4735 4736 4737 4738	2.5 1.0 2.5 1.0 2.5	106.0 110.0 116.5 119.0 120.0	108.5 111.0 119.0 120.0 122.5	Tr. Tr. Tr. Tr. Tr.	Nil Nil Nil Nil Nil

DEPTH from	DEPTH to	DESCRIPTION NOTE: All angles are measured with respect to the long core axis.	sample number	width	from	to	ASSAYS Au oz/t	ASSAYS Ag oz/t
122.5	130.0	RELATIVELY MASSIVE TRONDHEMITE -no pyrite evident, relict igneous texture (ie: plag. grains -moderate to strong chloritization/sericitization) -at 124.3' 50° 2-3mm carbonate stringers -at 126.1' 2cm qtz-po-pyrite qtz vein -- no wallrock alteration 126.6-127.3 45° 7cm qtz vein with few percentage cpy-po-pyrite -nine qtz stringers over 20' (106.0-126.0)	4739	2.0	125.5	127.5	Tr.	Nil
130.0	136.9	STRONGLY SHEARED TRONDHJEMITE -trace pyrite 130.0-132.3 strongly sericitized .5-1% pyrite 132.3-133.3 qtz ± chlorite vein minor pyrite, cpy-irregular sheared contact with trondhjemite	4740 4741	2.0 1.0	130.0 132.3	132.0 133.3	Tr. Tr.	Nil Nil
136.9	141.9	QUARTZ VEIN -five feet at 30-50°; coarse clots of sulphides -sphalerite and pyrite at 139.3' -3cm pyrite clot at 139.7' -wallrock inclusion (1-2% disseminated pyrite) at 137.4-138.5' -possible minor galena with sphalerite clots at 139.3'	4742 4743	2.5 2.5	136.9 139.4	139.4 141.9	Tr. Tr.	Nil Nil
141.9	160.9	STRONGLY SHEARED AND ALTERED TRONDHJEMITE -as 130.0-136.9' -second stringer zone; ~7-8 per 20' -at 143.1' 5cm qtz carbonate stringers 070° and 20° -at 144.5' 50° fracture with strong carbonate all over 3cm -at 145.6' 2mm 055° qtz with albite/sericite alteration - no sulphides -at 148.6' 1cm qtz-carbon 015° - good pyrite at edges -at 149.7' 1cm carbonate (½ qtz) with hematite alteraton 025° 151.0-151.1 two 35° 5-1cm qtz-pyrite vein 153.0-153.2 sphalerite calcite 40° associated with increased shearing 156.0-156.4 qtz-carbonate veining is strong sheared trondhjemite/ton 159.7-159.8 irregular qtz patches 160.1-160.5 045° qtz (± carb) vein -- minor py on internal shear	4744 4745 4746 4747 4748	5.0 5.0 2.5 2.5 2.0	141.9 146.9 151.9 154.4 159.0	146.9 151.9 154.4 156.9 161.0	Tr. Tr. Tr. Tr. Tr.	Nil Nil Nil Nil Nil

DEPTH from	DEPTH to	DESCRIPTION NOTE: All angles are measured with respect to the long core axis.	sample number	width	from	to	ASSAYS Au oz/t	ASSAYS Ag oz/t
160.9	170.2	STRONGLY SHEARED AND ALTERED TRONDHJEMITE/TON -mottled appearance due to qtz phenocrysts in a sericite/chlorite matrix -transitional into less sheared material with some relict igneous texture -generally ≤1% pyrite 161.2-162.6 1.4' qtz vein dipping 045° (good crystal growth faces - F.I.'s) open face filling variable dip downhole side ~05° - minor 2-3% pyrrpo, cpy 167.1-167.2 qtz vein - no sulphides 168.35-168.4 35° 1.5cm qtz-carb-porpyrtrondhjemite?	4749 4750 4751	2.0 5.0 5.0	161.0 163.0 168.0	163.0 168.0 173.0	Tr. Tr. Tr.	Nil Nil Nil
170.2	187.0	STRONGLY SHEARED AND ALTERED TRONDHJEMITE/TON -same as 160.9-170.2 but increased 30-50° microfractures (albitized) and 1-2mm qtz carb stringers and 1-2% pyrite -at 180.0-184.0 shows intense shearing with discide shear and fabric ~045° 173.9-175.5 1½ qtz vein dipping 026°; minor carb and margins; 1-2% pyrite, no other sulphides 179.3-179.9 12° 8mm qtz vein - no sulphides, but pyrite is altered micro-fractured trondhjemite/ton 184.6-185.4 025° at top, irregular 045° base; qtz vein; very minor pyrite or slickensides	4752 4753 4754 4755 4756	3.0 5.0 3.0 2.0 3.5	173.0 176.0 181.0 184.0 186.0	176.0 181.0 184.0 186.0 189.5	Tr. Tr. Tr. Tr. Tr.	Nil Nil Nil Nil Nil
187.0	199.6	MODERATE ALTERED TRONDHJEMITE -transitional from more altered trond/ton -some relict plag grains, though still moderate sericite/chloritic alteration -approx 1% pyrite 189.8-190.0 45° qtz-pyrite (coarse) vein 191.0 2cm qtz vein at 35° 196.0-198.5 zone of increased sericitization and loss of texture	4757 4758	2.0 5.0	189.5 191.5	191.5 196.5	Tr. Tr.	Nil Nil
199.6	231.2	MODERATE ALTERED TRONDHJEMITE -as 187.0-199.6 -weak to moderate chloritic/sericitic alteration of relatively massive trond/ton -from 215.5-224.0 shows slightly increased alteration with 12 qtz-cc micro-fractures spaced ~5-10cm 205.7-205.8 35° qtz-carb 2-3% fine pyrite (3cm) - sphalerite (?) 207.4-208.3 6mm 0°→20° curved veinlet qtz-carbonate	4759 4760 4761 4762	1.5 2.0 2.0 3.0	205.5 207.0 220.0 222.0	207.0 209.0 222.0 225.0	Tr. Tr. Tr. Tr.	Nil Nil Nil Nil

DEPTH from	DEPTH to	DESCRIPTION NOTE: All angles are measured with respect to the long core axis.	sample number	width	from	to	ASSAYS Au oz/t	ASSAYS Ag oz/t
		199.6-231.2 MODERATE ALTERED TRONDHJEMITE (con't)						
		220.7-221.2 042° 5½' vein qtz-carb, minor (±1%) sphalerite and pyrite	4763	4.0	225.0	229.0	Tr.	Nil
		0° 3mm stringer to rare ~220	4764	2.0	229.0	231.0	Tr.	Nil
		229.2-229.4 irregular patches of qtz-carbonate						
		229.6-229.7 037° 3cm qtz vein - no sulphides observed						
		230.1 7cm 035° qtz						
	231.2	END OF HOLE						

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RESOURCES LIMITED

ASSAY SUMMARIES

DRILL HOLE NUMBER	FOOTAGE from	FOOTAGE to	SAMPLE NUMBER	ASSAYED BY: Custom F.A. BW	SW	XR	THR	VALUE Au oz/t	Ag oz/t	REFERENCE: Drill Log	Sample dispatch	Assay Result	Re-Assayed SAMPLE NUMBER	ASSAYED BY: BW	SW	XR	THR	VALUE Au oz/t	Ag oz/
437-87-2	3.6	6.1	4720					Tr.	Nil	X	X	X							
	6.1	8.6	4721					"	"	"	"	"							
	8.6	11.1	4722					"	"	"	"	"							
	11.1	13.6	4723					"	"	"	"	"							
	13.6	14.6	4724					"	"	"	"	"							
	14.6	16.1	4725					0.04	"	"	"	"							
	16.1	18.6	4726					Tr.	"	"	"	"							
	18.6	21.1	4727					"	"	"	"	"							
	21.1	23.5	4728					"	"	"	"	"							
	23.5	28.5	4729					"	"	"	"	"							
	28.5	33.5	4730					"	"	"	"	"							
	33.5	38.5	4731					"	"	"	"	"							
	38.5	43.5	4732					"	"	"	"	"							
	70.2	75.2	4733					"	"	"	"	"							
	106.0	108.5	4734					"	"	"	"	"							
	110.0	111.0	4735					"	"	"	"	"							
	116.5	119.0	4736					"	"	"	"	"							
	119.0	120.0	4737					"	"	"	"	"							
	120.0	122.5	4738					"	"	"	"	"							
	125.5	127.5	4739					"	"	"	"	"							
	130.0	132.0	4740					"	"	"	"	"							
	132.3	133.3	4741					"	"	"	"	"							
	136.9	139.4	4742					"	"	"	"	"							
	139.4	141.9	4743					"	"	"	"	"							
	141.9	146.9	4744					"	"	"	"	"							
	146.9	151.9	4745					"	"	"	"	"							
	151.9	154.4	4746					"	"	"	"	"							
	154.4	156.9	4747					"	"	"	"	"							
	159.0	161.0	4748					"	"	"	"	"							
	161.0	163.0	4749					"	"	"	"	"							
	163.0	168.0	4750					"	"	"	"	"							
	168.0	173.0	4751					"	"	"	"	"							
	173.0	176.0	4752					"	"	"	"	"							
	176.0	181.0	4753					"	"	"	"	"							
	181.0	184.0	4754					"	"	"	"	"							
	184.0	186.0	4755					"	"	"	"	"							
	186.0	189.5	4756					"	"	"	"	"							
	189.5	191.5	4757					"	"	"	"	"							

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ASSAY SUMMARIES

DRILL HOLE NUMBER	FOOTAGE from	FOOTAGE to	SAMPLE NUMBER	ASSAYED BY: BW	SW	XR	THR	VALUE Au oz/t	Ag oz/t	REFERENCE: Drill Log	Sample Dispatch	Assay Result	Re-Assayed SAMPLE NUMBER	ASSAYED BY: BW	SW	XR	THR	VALUE Au oz/t	Ag o
437-87-2																			
	191.5	196.5	4758					Tr.	Nil	X	X	X							
	205.5	207.0	4759					"	"	"	"	"							
	207.0	209.0	4760					"	"	"	"	"							
	220.0	222.0	4761					"	"	"	"	"							
	222.0	225.0	4762					"	"	"	"	"							
	225.0	229.0	4763					"	"	"	"	"							
	229.0	231.0	4764					"	"	"	"	"							

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RESOURCES LIMITED
P.O. BOX 143, 1 FIRST CANADIAN PLACE, TORONTO, CANADA M5X 1C7 TELEPHONE: (416) 362-6683 TELEX: 06-217766

Property: VERMILLION LAKE #437
Location: #11 vein
Co-ordinates:
Claim: K-875547
Section:
Length: 159'
Elevation:
Azimuth: 255° Dip: -45°

HOLE: 437-87-3
Core size: BQ

Dip Tests: None
Started: August 5, 1987
Completed: August 6,1987
Logged by: D. Burrows

DRILL LOG

DEPTH from	DEPTH to	DESCRIPTION NOTE: All angles are measured with respect to the long core axis.	sample number	width	from	to	ASSAYS Au oz/t	ASSAYS Ag oz/t
0.0	12.2	CASING						
12.2	54.0	POLYMICT ORTHOCONGLOMERATE -clasts up to 0.8' generally well rounded subangular -clasts of mafic volcanics, carbonated mafic volcanics, lapilli tuff, intermediate intrusive, small red jaspers -one clast of laminated pyrite (trace? sphalerite) at 45.6' -matrix fine grained dominantly chlorite, variable to medium grained with 1-3mm carbonated lapilli (?) -approx 1-2% pyrite with some zones with higher sulphide content at 39.0-40.0 and 44.9-45.9 -also patches with rutile in matrix ~40.0-41.0'; all conglomerate reacts strongly with acid 50.9-52.6 -altered though massive chloritized and carbonatized trond/ton -at 51.0' sharp contact of trond/ton with conglomerates - portions of contact appear to have clasts in trond., or it is a cut of an irregular section 53.4-54.0 -main contact sharp though slightly diffuse, some rounded clasts of pyrite with spherical radial structure; contact at 10° -contact probably unconformaly, though no weathering horizon, etc. -50.9-52.6 could therefore be large clast or possibly a dyke of ton	4765 4766 4767	5.0 5.0 5.0	39.0 44.0 49.0	44.0 49.0 54.0	Tr. Tr. Tr.	Nil Nil Nil
54.0	65.0	WEAKLY SHEARED AND ALTERED TRONDHJEMITE/TON -weakly sheared and altered (weak to moderate) trond/ton-chlorite-qtz-carbonated plagioclase-rutile 64.0-64.8 -5° shear with 2-3mm albitized selvage						

DEPTH from	DEPTH to	DESCRIPTION NOTE: All angles are measured with respect to the long core axis.	sample number	width	from	to	ASSAYS Au oz/t	ASSAYS Ag oz/t
65.0	69.5	MASSIVE TRONDHJEMITE/TON -good igneous texture, although feldspar to apple green sericite; no shearing 66.0-68.0 -slightly increased sericitization of trond/ton -include 3mm 50° qtz stringers at 66.2' and pyritized shear at 67.0'						
69.5	80.0	MASSIVE TRONDHJEMITE/TON -weakly altered massive trond/ton, still relict igneous texture qtz, sericitized plag chlorite after biotite 75.1-75.7 -minor carb stringers associated in first case with 45° shear						
80.0	89.0	MASSIVE TRONDHJEMITE/TON -but increased chloritic and sericitic alteration (moderate) relative to last section -at 84.7' 50° 1cm aplite cut by 35° shear dipping other way - 3cm normal movement						
89.0	98.7	MODERATELY SHEARED TRONDHJEMITE VEIN -increased shearing and loss of igneous texture, also increase in degree of sericitic alteration (moderate) and discrete 45-50° shears/microfractures -at 91.8' 4mm 40° qtz vein -at 98.5' 2-3mm 40° qtz-tourmaline(?) stringers -section has ≤½%, except at 96.0' onwards to 1% pyrite	4768	5.0	96.0	101.0	Tr.	Nil
98.7	110.0	MODERATE TO STRONG SHEARING -associated with strong sericitization and loss of igneous texture 20°-40° microfractures (with carb stringers); ½% to 1% pyrite (less than previous section)	4769	5.0	101.0	106.0	Tr.	Nil
			4770	5.0	106.0	111.0	Tr.	Nil
			4771	2.0	111.0	113.0	Tr.	Nil
110.0	113.2	STRONG SHEARING -distinct mottled texture - qtz eyes in chlorite/sericite matrix; ½%-1% pyrite -some microfractures with increased sulphides -at 109.3' 45° ↑ pyrite -at 110.8' 55° ↑ pyrite and galena -at 113.4' 90° ↑ pyrite only						

DEPTH from	DEPTH to	DESCRIPTION NOTE: All angles are measured with respect to the long core axis.	sample number	width	from	to	ASSAYS Au oz/t	ASSAYS Ag oz/t
113.2	113.7	STRONG SHEARING -same as 110.0-113.2 but with microfracture described above and increased disseminated pyrite and cpy (~2%); also increased size of qtz eyes ie. silicification						
113.7	119.5	QUARTZ VEIN -5.8' quartz vein (sphalerite, galena-pyrite) -numberous sericite inclusions especially near top	4772	1.0	113.0	114.0	Tr.	Nil
		113.7-114.8 -massive white qtz, one 50° ½cm clear qtz at 114.3'	4773	3.0	114.0	117.0	Tr.	Nil
		114.8-115.5 -1-2%, 1-2mm sphalerite ± 3-5% coarse pyrite (5-10mm clots) -tourmaline (?) or chlorite stylolites (crack-seal fractures) at 115.0-115.2	4774	3.0	117.0	120.0	Tr.	Nil
		116.0-117.1 -tonalite inclusion in vein highly sheared (fissile) with intense sericitization and silicification (↑ pyrite 1-2%) -two ½cm 45 and 50° veinlets; one other 10-15° with sphalerite at 117.0' (½ of core main vein)						
		117.1-119.5 -fractured white qtz-barren of sulphides; minor sericite on irregular fractures (assiminated wallrock inclusions) -styolitic fractures with sericite (and tourmaline?) of margin at 119.5'						
		-at 115.5-116.2' ~40% wallrock inclusion (sericitized sheared trond/ton) 15-20% coarse stringers/blebs of sphalerite, 3-5% galena, 1-2% fine pyrite in wallrock inclusion; one large 3-4cm clot of po with pyrite inclusions intergrown or including galena at 116.0'						
119.5	120.0	HIGHLY SHEARED SERICITIZED WALLROCK -2-3% pyrite in trondhjemite						
120.0	121.0	HIGHLY SHEARED SERICITIZED WALLROCK -at 120.5' 3mm qtz stringer at 40° -at 120.6' 50° (other discrete to stringers) albitized microfractures over 3cm						
121.0	126.7	WEAKLY SHEARED -massive weak to moderately altered (sericitic, chloritic) trond/ton -minor zones of albitization associated with microfractures/small shears: 3cm at 124.0' 45°; 2cm at 125.6' 60°; 3cm at 126.5' puttuse	4775	2.5	120.0	122.5	Tr.	Nil

DEPTH from	DEPTH to	DESCRIPTION NOTE: All angles are measured with respect to the long core axis.	sample number	width	from	to	ASSAYS Au oz/t	ASSAYS Ag oz/t
126.7	142.0	WEAKLY SHEARED TO MASSIVE MODERATELY ALTERED TON?TRONDHJEMITE						
		-same as 121.0-126.7, weak foliated to massive moderately altered ton/trond	4776	2.5	130.5	133.0	Tr.	Nil
		-gradual to less sheared trond/ton downhole, pyrite ~½% except at:						
		131.0-132.0 -10° qtz-carb-chlorite 1cm vein	4777	3.0	133.0	136.0	Tr.	Nil
		132.0-132.5 -zone of silicification and shearing						
		and 1cm albitization at 134.5 and 135.6'	4778	3.0	139.0	142.0	Tr.	Nil
		-at 139.1' 3mm qtz stringer ~45°						
		-at 141.3' 2-3mm qtz vein, 50°						
		-at 142.5-143.0' 2½" buff aplite width and 1 disseminated pyrite and albitic out margin 35° dip						
142.0	159.0	RELATIVELY MASSIVE						
		-weak to moderate sericitic and chloritic alteration, recognizable igneous texture observed	4779	1.0	142.0	143.0	Tr.	Nil
		147.7-142.0 -35° 3cm qtz-tourmaline? veinlet - no obvious sulphides	4780	1.0	147.0	148.0	Tr.	Nil
		152.1-152.2 -irregular 60° qtz stringers ~½cm	4781	5.0	152.0	157.0	Tr.	Nil
		154.1' -qtz carbonate 45° 7mm						
		155.7' -carbonate (± qtz) irregular patch ~50°	4782	2.0	157.0	159.0	Tr.	Nil
	159.0	END OF HOLE						

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ASSAY SUMMARIES

DRILL HOLE NUMBER	FOOTAGE		SAMPLE NUMBER	ASSAYED BY: -Custom F.A.				VALUE		REFERENCE:			Re-Assayed SAMPLE NUMBER	ASSAYED BY:				VALUE	
	from	to		BW	SW	XR	THR	Au oz/t	Ag oz/t	Drill Log	Sample dispatch	Assay Result		BW	SW	XR	THR	Au oz/t	Ag oz/
437-87-3																			
	39.0	44.0	4765					Tr.	Nil	X	X	X							
	44.0	49.0	4766					"	"	"	"	"							
	49.0	54.0	4767					"	"	"	"	"							
	96.0	101.0	4768					"	"	"	"	"							
	101.0	106.0	4769					"	"	"	"	"							
	106.0	111.0	4770					"	"	"	"	"							
	111.0	113.0	4771					"	"	"	"	"							
	113.0	114.0	4772					"	"	"	"	"							
	114.0	117.0	4773					"	"	"	"	"							
	117.0	120.0	4774					"	"	"	"	"							
	120.0	122.5	4775					"	"	"	"	"							
	130.5	133.0	4776					"	"	"	"	"							
	133.0	136.0	4777					"	"	"	"	"							
	139.0	142.0	4778					"	"	"	"	"							
	142.0	143.0	4779					"	"	"	"	"							
	147.0	148.0	4780					"	"	"	"	"							
	152.0	157.0	4781					"	"	"	"	"							
	157.0	159.0	4782					"	"	"	"	"							

OROFINO RESOURCES LIMITED

P.O. BOX 143, 1 FIRST CANADIAN PLACE, TORONTO, CANADA M5X 1C7 TELEPHONE: (416) 362-6663 TELEX: 06-217766

Property: VERMILLION LAKE #437
Location: #1 VEIN; 50+46S x 20+60W
Co-ordinates:
Claim: K-875551
Section:
Length: 429'
Elevation:
Azimuth: 075° Dip: 45°

HOLE: 437-87-4
Core size: BQ

Dip Tests: -47° (429')
Started: August 7, 1987
Completed: August 11, 1987
Logged by: D. Burrows

DRILL LOG

DEPTH from	DEPTH to	DESCRIPTION NOTE: All angles are measured with respect to the long core axis.	sample number	width	from	to	ASSAYS Au oz/t	ASSAYS Ag oz/t
0.0	4.1	CASING						
4.1	14.4	MASSIVE TRONDHJEMITE -good igneous texture in places with only slightly altered mafic minerals -regions of diffuse mauve-purplish alteration at 4.1-4.4 and 9.7-11.8' - ≤½% pyrite; gradational into alteration of this type further down hole						
14.4	29.5	WEAKLY FOLIATED TRONDHJEMITE -weak diffuse mauve-purplish alteration; this may overprint shearing, at 21.6-23.5 intensifies to moderate fabric with loss of plagioclase and mafics -minor shears with carbonate (?calcite) stringers ≤3mm at 21.1 at 80° and 21.7 at 60° -albitized shears at 24.5 and 25.3'						
29.5	42.5	MASSIVE TRONDHJEMITE -variable from fresh (greenish) to weak mauve-purplish alteration -albitized fracture 30° at 32.2'; 39.9-41.1' and 42.9' -four(4) parallel chlorite-carbonate shear fractures at 30.1-30.3'						
43.5	57.8	MASSIVE TRONDHJEMITE -relatively fresh - sericitized plag., biotite, qtz; no significant pyrite -at 44.1; 30° chloritized shear -at 48.5; 50° 3mm qtz vein -at 48.8-49.0' and 49.4-49.8'; zones of albitization ∠5-40° fractures -at 53.4; albitized chlorite fractures 50° -at 54.7; 60° chlorite fractures 060° with 2cm albitized selvage -at 56.7; -57.0 -58.0 calcite 40-50° stringers						
57.8	63.0	MASSIVE TO WEAKLY FOLIATED TRONDHJEMITE -many diffuse zones .5' with increase sericitization and pyrite 2-3%; some discrete fractures/shears at 60.1, 61.2 and ~40-50°	4783 4784	5.0 2.5	57.8 62.8	62.8 65.3	Tr Tr	NIL NIL

DEPTH from	DEPTH to	DESCRIPTION NOTE: All angles are measured with respect to the long core axis.	sample number	width	from	to	ASSAYS Au oz/t	ASSAYS Ag oz/t
63.0	72.0	MASSIVE TRONDHJEMITE - ≤½% pyrite -at 63.5' 45° qtz vein 7mm - ↑ pyrite within 1cm in wallrock -at 63.7' 45° carbonate filled shear 3mm in width -at 65.5' 40° 3mm qtz veinlet -at 69.8' 45° shear scattered pyrite grains -at 70.5-71.1' series of chloritized shear with albitic selvage; no noticeable increase in pyrite, ie. ≤½%						
72.0	76.6	MODERATE SHEARING AND ALTERATION IN TRONDHJEMITE -moderate shearing and alteration (chlorite, sericite) in trondhjemite -also shows weak hematite alteration giving it a reddish-brown color where highly fractured, strongest at 74.0-76.0 -shows increased disseminated pyrite 2-3%, increasing to ∿5% near zone of silicification 75.2 to 75.7' and 45° fracture at 76.0'						
76.6	82.3	STRONG SHEARING AND SERICITIZATION -zone of increased (strong) shearing and sericitization, still mildly hematized on fractures	4785	2.0	72.0	74.0	Tr	NIL
		-at 76.8-79.9' 6mm 10° qtz vein slightly increase pyrite	4786	5.0	74.0	79.0	Tr	NIL
		-at 79.9' 50° 3mm calcite stringer						
		-at 79.2-79.7' .5' qtz-sphalerite-pyrite-carbonate vein at 60° vein sphalerite mainly at base ∿5%, pyrite as 1-3mm crystal ∿2-3%; increased pyrite, associated with silicification (growth of qtz eyes) within 0-3' of vein	4787	1.0	79.0	80.0	.01	NIL
			4788	1.0	80.0	81.0	Tr	NIL
82.3	118.0	WEAK SHEARED/MODERATELY ALTERED TRONDHJEMITE -all this zone is mildly hematized with a greenish-brown colour; loss than 1% pyrite except perhaps between 110.0-111.0'; 82.0-84.0' and 91.0-96.0' where 1-2% pyrite; also 203% pyrite associated with small shear at 115.0'						
		81.4-93.2 -some altered trondhjemite but ∿35° 1-2mm carbonate stringers 20-60° most ∿45°; no noticeable increase in pyrite						
		... ... WEAK TO MODERATE ALTERATION ... ..., weak to moderate alteration (chlorite sericite) but hematite staining less noticeable; pyrite ≤1%, except at 123.0-124.0' 1-2% pyrite and 129.8' albitized shear with chlorite ∿15° angle						

DEPTH from	DEPTH to	DESCRIPTION NOTE: All angles are measured with respect to the long core axis.	sample number	width	from	to	ASSAYS Au oz/t	ASSAYS Ag oz/t
130.0	145.0	MASSIVE TRONDHJEMITE -light greenish colour - coarse grained with granitoid texture, no observable pyrite -at 139.6' 3mm 45° shear filled with calcite, slightly increased pyrite						
145.0	159.0	VARIABLE MASSIVE TO MODERATELY SHEARED TRONDHJEMITE -0% pyrite expecially approx 155' -from 153.0 to 159.0' moderate to strong shearing and sericitic alteration hematite alteration is patchy 154.0-155.0' a appree to overprint shearing as it occurs in massive and strongly sheared trondhjemite, ie. a late post-shearing oxidation	4789	5.0	154.0	159.0	Tr	NIL
159.0	171.0	MODERATE TO STRONG SHEARING -continuation of zone of moderate to strong shearing starting at a 153.0' but here without hematite colouration -typical qtz eye mottled texture, no increase in pyrite only approx 1% transitional in weak to moderate sheared trondhjemite downhole -at 167.7 40° qtz-hematite staining 5cm vein						
171.0	189.0	WEAKLY SHEARED/MODERATELY ALTERED TRONDHJEMITE -at 173.2 6mm, 50° qtz veinlet -at 176.1' chlorite shear 50° shear with albitic selvage and 5% pyrite within 1cm on each side -at 181.0' 2mm 90° carb stringers						
189.0	194.4	WEAKLY ALTERED TRONDHJEMITE -massive only weakly altered trond - good granitic texture						
194.4	225.0	MODERATELY ALTERED TRONDHJEMITE -still relatively incessive -at 194.8' 50° calcite in small shear -at 196.0' and 196.1' 1cm zones of albitic alteration -at 201.9 45° carbonate stringers -at 202.2' qtz-carb-pyrite stirnger minor tourmaline 47° 1cm wide -at 216.8' qtz-carb stringers, 50° approx. 7mm						
225.0	229.0	STRONG SHEARING - INTENSE SERICITIZATION -zone of strong shearing and intense sericitization with typical mottled texture with pronounced qtz eyes in sheared sericitized matrix						

DEPTH from	DEPTH to	DESCRIPTION NOTE: All angles are measured with respect to the long core axis.	sample number	width	from	to	ASSAYS Au oz/t	ASSAYS Ag oz/t
229.0	234.5	ALTERATION -massive-weak-moderate alteration (chlorite and sericite)						
234.5	298.5	MODERATE - STRONG SHEARING -moderate to strong shearing with strong sericitization - also small igneous of relatively massive, though altered, trondhjemite -strongest at 246.5-256.0'; 270.0-276.0'; and 290.5-292.5' -less than 1% pyrite throughout, small ≤1mm 40-60° carb stringers common -small veins/stringers at: -235.9' 1cm 40° qtz, 1-2% over 2cm on either side -241.1' 90° fracture, minor pyrite -241.8' 2mm carb 90° stringers -243.1' 1mm carb 70° stringers -245.8' 3mm qtz-carb 80° -249.8-250.5' zone of 4-5 irregular ≤4mm qtz-pyrite stringers -251.2' 90° 3mm qtz-carb vein -255.3' 0.5cm 80° qtz vein -259.9' 80° 3mm carb-qtz vein -267.2' 30° irregular qtz-carb-chlorite vein 2-4mm -267.9' 85° 3mm qtz-carb vein -270.8' 85° 5mm qtz-carb-pyrite vein -272.2' 20° 1-2mm qtz-carb stringers -273.9' 1mm qtz-carb 75° -275.3' carb-stringers in small shear 2-3mm 25° -281.1' 35° microfracture with pyrite and chlorite and 1cm symmetrical albitic alteration selvage -297.7-297.9' 45° qtz-carb-minor pyrite in shear fracture	4790	5.0	249.8	254.8	Tr	NIL
298.5	318.0	WEAK TO MODERATELY ALTERED TRONDHJEMITE -weakly foliated, weak to moderately altered trond at ~40-60° carb stringers at .5-1.0' intervals, pyrite ≤1% -at 307.6' 1cm qtz-carb (calcite) vein 50° -at 307.9' 2-3mm qtz-carb (minor pyrite) 55° stringers						

DEPTH from	DEPTH to	DESCRIPTION NOTE: All angles are measured with respect to the long core axis.	sample number	width	from	to	ASSAYS Au oz/t	ASSAYS Ag oz/t
318.0	323.9	WEAKLY SHEARED TRONDHJEMITE -alternating with 40-50° .5-1.5' bands on highly sheared and sericitized trond giving core banded appearance -from 323' consistently strongly sheared -minor carbonate stringers and silicification	4794	1.0	322.8	323.8	Tr	NIL
323.9	326.1	QUARTZ VEIN -2.3' 35° quartz vein - banded at 1-3cm scale; ie. crack-seal fractures, approx 30 in vein - each one lined with chlorite, sericite, sphalerite, cpy, po or pyrite, minor (?) tourmaline -sulphides approx. 15-20%, sphalerite >> cpy>py>gn; galena ~1%	4796	2.3	323.9	326.1	Tr .01	1.0 1.18
326.1	328.2	STRONGLY SHEARED AND SERICITIZED TRONDHJEMITE -also moderate silicification	4795	1.7	326.1	327.8	Tr	NIL
328.2	332.0	MODERATE SHEARING AND ALTERED TRONDHJEMITE						
332.0	346.2	MODERATELY SHEARED/STRONGLY ALTERED -moderately sheared strong altered (silicification and sericitization) -minor carbonate (ankerite) stringers, loss of igneous texture but no development of mottled qtz eyes texture						
346.2	372.1	STRONG SHEARING - INTENSE SERICITIZATION -strong shearing with mottled qtz eyes texture and intense sericitization -STRINGER ZONE (18 veinlets over 17.1') at: -346.7' 4-6mm qtz-carb-pyrite stringer 60° angle -349.2' 12mm qtz vein at ~90°, minor carb and pyrite in immediate wallrock -350.6' 10mm qtz vein at 70°, minor carb and pyrite in immediate wallrock -353.0' 3mm qtz-carb veinlet at 45° -353.5' 10mm qtz-carb-tourmaline veinlet at 60° -354.0' 12mm qtz-carb veinlet at 65° - minor pyrite -354.4' 10mm qtz-carb veinlet at 52° -354.5' 4mm qtz-carb veinlet at 45° -355.1' 12mm qtz-carb (ankerite) veinlet at 62° - minor pyrite -355.9' 2-4mm qtz-carb veinlet at 45° - diffuse margins in small shear -356.6' 3mm qtz-ankerite vein at 70°	4791 4792 4793	5.0 5.0 5.0	349.0 354.0 359.0	354.0 359.0 364.0	Tr Tr Tr	NIL NIL NIL

OROFINO RESOURCES LIMITED

Hole No. 437-87-4 Page 6 of 6

DEPTH from	DEPTH to	DESCRIPTION NOTE: All angles are measured with respect to the long core axis.	sample number	width	from	to	ASSAYS Au oz/t	ASSAYS Ag oz/t
		346.2-372.1 STRONG SHEARING/INTENSE SERICITIZATION (con't) -356.7' 4mm qtz-ankerite vein at 60° - sphalerite and pyrite grains -359.0' 4mm qtz veinlet 50° - minor sphalerite and pyrite -359.8' 10mm qtz vein - minor carb 50° -361.7' two 3-4mm qtz veins 55° - 5% pyrite immediately adjacent to veins -362.3' 3mm qtz-ankerite vein 50° -363.8' qtz-carboante sericite in 3cm sheared zone at 65°						
372.1	378.5	WEAK SHEARING WITH MODERATE ALTERATION IN TRONDHJEMITE -weak (occasionally moderate) shearing with moderate alteration (sericite, chlorite) in trond; 5-6cm spaced calcite filled microfractures						
378.5	389.0	STRONG FELSIC/MODERATE SERICITIZATION -strong felsic (mottled qtz-eyes texture) and moderate sericitization -at 380.6' ankerite veinlet 2mm 30° -at 380.7' 2mm qtz-carb veinlet at 45° - some pyrite at margins -at 381.5' carb-chlorite shear at 45° -at 384.9' 2mm qtz-carb vein in small (≤3cm) shear; chlorite on slickensides 10-15cm over 2cm region -at 386.2' same as 381.5' above						
389.0	395.2	MASSIVE TO WEAKLY FOLIATED -massive to weakly foliated moderate chloritiz and sericitic alteration -at 392.8' 2mm qtz veinlet at 45°						
395.2		MASSIVE FRESH TRONDHJEMITE -massive fresh trondhjemite - slightly greenish sericitized plag., biotite and/or hornblende, ∿1% pyrite (ie. slightly more than more sheared material) in places -at 399.5-405.5' massive trond but weak-moderate alteration -at 418.7-423.5' massive trond but weak-moderate alteraiton with increased 60-90° carb stringers						

OROFINO RESOURCES LIMITED

ASSAY SUMMARIES

DRILL HOLE NUMBER	FOOTAGE		SAMPLE NUMBER	ASSAYED BY: Custom F.A.				VALUE		REFERENCE:			Re-Assayed SAMPLE NUMBER	ASSAYED BY:				VALUE	
	from	to		BW	SW	XR	THR	Au oz/t	Ag oz/t	Drill Log	Sample dispatch	Assay Result		BW	SW	XR	THR	Au oz/t	Ag
437-87-4																			
	57.8	62.8	4783					Trace	Nil	X	X	X							
	62.8	65.3	4784					"	"	"	"	"							
	72.0	74.0	4785					"	"	"	"	"							
	74.0	79.0	4786					"	"	"	"	"							
	79.0	80.0	4787					.01	"	"	"	"							
	80.0	81.0	4788					"	"	"	"	"							
	154.0	159.0	4789					"	"	"	"	"							
	249.8	254.8	4790					"	"	"	"	"							
	322.8	323.8	4794					"	"	"	"	"							
	323.9	326.1	4796					"	1.0	"	"	"							
								.01	1.18										
	326.1	327.8	4795					"	"	"	"	"							
	349.0	354.0	4791					"	"	"	"	"							
	354.0	359.0	4792					"	"	"	"	"							
	359.0	364.0	4793					"	"	"	"	"							

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RESOURCES LIMITED

P.O. BOX 143, 1 FIRST CANADIAN PLACE, TORONTO, CANADA M5X 1C7 TELEPHONE: (416) 362-6683 TELEX: 06-217766

Property: BAD VERMILLION LAKE #437
Location: 36+74S x 21+61W
Co-ordinates:
Claim: 875548
Section:
Length: 219'
Elevation:
Azimuth: 029° Dip: -45°

HOLE: 437-87-5
Core size: BQ

Dip Tests: -46° at 219'
Started: August 12, 1987
Completed: August 14, 1987
Logged by: D. Burrows

DRILL LOG

DEPTH from	DEPTH to	DESCRIPTION NOTE: All angles are measured with respect to the long core axis.	sample number	width	from	to	ASSAYS Au oz/t	ASSAYS Ag oz/t
0.0	8.0	CASING						
8.0	23.2	WEAKLY FOLIATED TO MASSIVE TRONDHJEMITE -moderately altered (chlorite, sericite, silicification) with numerous carbonate and/or chlorite filled fractures; minor qtz-carbonate veinlets at: -14.0' 3mm 45° -19.3' 50° 3mm Qtz-carb -20.8' 1-2cm 40° -22.0' two veinlets 30 and 45° qtz-chlorite -minor pyrite ≤ ½% except between 19 and 20' equal 1-2%						
23.2	48.6	MASSIVE TRONDHJEMITE -greyish (light green where more sericitized) fresh massive trondhjemite -good galena texture with biotite 23.2-34.6 -shows patchy alteration (plag to sericite, chloritization of biotite) and increased number of 30-50° carbonate filled micro-fractures 29.0-31.0 -increased carbonate (± qtz) 50° stringers; qtz-carb veinlets at 30.6' 2mm 50° and 32.5' 3mm 45° 42.0-45.0 -zone of 0° to 50° microfractures with increased pyrite 2-3%	4797	5.0	41.0	46.0	Tr	NIL
48.6	53.5	MASSIVE TRONDHJEMITE -same as 23.2-48.6 above with increasing sericitized with numerous 30-50° discrete shears/microfractures; transitional gradual change into fresh massive material above and increasingly sheared and albite core below						
[illegible]	[illegible]	MODERATELY ALTERED AND SHEARED TRONDHJEMITE -variable, generally moderately altered and sheared relatively massive trond at 78.8-82.0; strongly sheared at 83.0-84.5 and 86.0-90.8 -veinlets at 54.7' 15mm 45° qtz only; 55.5' 3mm 45° qtz-chlorite and 56.1' 3mm 45° qtz-carb, diffuse margins						

DEPTH from	DEPTH to	DESCRIPTION NOTE: All angles are measured with respect to the long core axis.	sample number	width	from	to	ASSAYS Au oz/t	ASSAYS Ag oz/t
		53.5-91.0 MODERATELY ALTERED AND SHEARED TRONDHJEMITE (con't)						
		-veinlets at: (con't)						
		-59.8' 2-3mm 45° qtz-carbonate	4798	1.0	60.0	61.0	Tr	NIL
		-60.5' 15mm 80° qtz-carb-sphalerite-two 3-4mm blebs (ie. ∿ 3% of vein)						
		-60.8' 5mm 50° qtz-carb-pyrite (few %)	4799	4.0	61.0	65.0	Tr	NIL
		-60.9' 20mm 45° qtz-carb-pyrite (few %); one speck of tourmaline/sphalerite?						
		-62.7-62.8' 50° qtz-carb vein and no obvious sulphide, but more increase in pyrite in adjacent silicified wallrock to 63.6'	4800	5.0	86.0	91.0	Tr	NIL
		-86.6' 80° 1cm qtz (pinkish); tourm. veinlets; minor pyrite						
		-89.2' 70° 6mm qtz-tourmaline-pyrite						
		-90.0-90.2' qtz-tourmaline-carb vein; minor pyrite						
		-from 86.0-91.0 is highly altered and moderately sheared						
91.0	116.2	MASSIVE TRONDHJEMITE						
		-weak to moderate alteration (chloritization of biotite, sericitization of plag)						
		-section is also weakly to moderately hematized related? to alteration of biotite						
		-transitional change to sheared trondhjemite at base accompanied by loss in hematitization 43-50° microfractures prominent in places filled with calcite						
		-pyrite ≤ ½%						
116.2	199.0	HIGHLY SERICITIZED TRONDHJEMITE						
		-moderate to strong foliation and shearing in highly sericitized trondhjemite						
		-shearing stronger at:						
		-116.2-117.5' associated with 116.7-116.9 irregular qtz vein						
		-118.0-122.0' has patchy weak hematite alteration						
		-at 123.0-129.0; in this section veins at:	18601	3.0	124.5	127.5	Tr	NIL
		-124.8' 4mm 50° qtz-minor pyrite	18602	3.5	127.5	131.0	Tr	NIL
		-125.0-125.2' qtz-pyrite vein 45°; pyrite approx 10-15% along margins fine grained						
		-125.2-125.5' three 45-80° 3-12mm qtz veinlets; highest one with 3% sphalerite associated with silicification of wallrock						
		-125.5-126.4 qtz vein minor sericitic styolitic fractures; approx 1% py observed on splitting; no obvious sulphides; highly silicified wallrock						
		-126.7-127.4' qtz vein at 47°; wallrock septa at 127'; fractured by later clear qtz; one 1cm x 2mm bleb of sphalerite with minor pyrite						

DEPTH from	DEPTH to	DESCRIPTION NOTE: All angles are measured with respect to the long core axis.	sample number	width	from	to	ASSAYS Au oz/t	ASSAYS Ag oz/t
		116.2-199.0 HIGHLY SERICITIZED TRONDHJEMITE (con't)						
		-quartz stringers also at: -130.0' 65° qtz-carbonate-sphalerite -130.6' 60° 1cm qtz carbonate -130.8' 50° 1cm qtz-carbonate; very minor sulphide-pyrite and?grey sulphide galena?						
		-between 131.0-142.5' moderately sheared and alted, weakly hematized -at 138.5' 1.5" qtz-sericite vein at 45°; minor pyrite associated with albitized wallrock alteration -at 139.5' 2" qtz vein at 45°	18603	2.0	138.1	140.1	Tr	NIL
		-at 142.5-169.5' strong foliated and sericitized trondhjemite; numerous calcite (± qtz) microfractures 45 to 90°; patches of silicification with growth of larger qtz eyes at: -145.7' 3mm qtz-carbonate 50° -149.2' 8mm 25° qtz-carbonate vein -151.9' 1-6mm qtz stringers approx 45° -153.5-154.2' 45° chlorite shears and strong silicification -158.8' irregular 3mm qtz stringers -162.2' 45° 3-4mm qtz-carb stringers -167.5-169.2' irregular qtz stringers in sheared region with strong silicification and carbonatization						
		-at 169.5-177.5' moderately sheared, no mottled qtz eyes texture; slightly hematized in patches -at 177.5-199.0' strong, occasional moderate shearing-mottled texture -at 178.3-182.6' zone of veining and strong silicification in adjoining wallrock; actual veins at 175.5-175.6; two 65° 1cm qtz veins						
		-at 178.7-179.8' one feet qtz vein with sericitic wallrock inclusions giving 45° banding; no obvious sulphides but 3-5% pyrite in silicified wallrock beneath at 179.8-181.0'	18604	4.0	178.3	182.3	Tr	NIL
		-at 181.0-181.2' 65° qtz-sericite vein--minor pyrite -at 181.5' 1cm 70° qtz-sericite vein; no sulphides -at 181.9-182.3' banded (sericite lamellae) 45° qtz vein	18605	2.5	182.3	184.8	Tr	NIL
		-at 185.1-185.2' 50° qtz-sericite -at 185.9-187.2' 1.3' qtz vein with sericitized wallrock inclusions; 1-2% pyrite	18606	2.5	184.8	187.3	Tr	NIL

DEPTH from	DEPTH to	DESCRIPTION NOTE: All angles are measured with respect to the long core axis.	sample number	width	from	to	ASSAYS Au oz/t	ASSAYS Ag oz/t		
199.0	219.0	MASSIVE TRONDHJEMITE -transitional change to pale green (chloritized) massive trondhjemite -good igneous texture mafics to chlorite, plag, slightly sericitied								
	219.0	END OF HOLE								

OROFINO
RESOURCES LIMITED

ASSAY SUMMARIES

DRILL HOLE NUMBER	FOOTAGE from	FOOTAGE to	SAMPLE NUMBER	ASSAYED BY: Custom F.A. BW	SW	XR	THR	VALUE Au oz/t	Ag oz/t	REFERENCE: Drill log	Sample dispatch	Assay Result	Re-Assayed SAMPLE NUMBER	ASSAYED BY: BW	SW	XR	THR	VALUE Au oz/t	Ag oz/
437-87-5																			
	41.0	46.0	4797					Trace	Nil	X	X	X							
	60.0	61.0	4798					"	"	"	"	"							
	61.0	65.0	4799					"	"	"	"	"							
	86.0	91.0	4800					"	"	"	"	"							
	124.5	127.5	18601					"	"	"	"	"							
	127.5	131.5	18602					"	"	"	"	"							
	138.1	140.1	18603					"	"	"	"	"							
	178.3	182.3	18604					"	"	"	"	"							
	182.3	184.8	18605					"	"	"	"	"							
	184.8	187.3	18606					"	"	"	"	"							

OROFINO RESOURCES LIMITED

P.O. BOX 143, 1 FIRST CANADIAN PLACE, TORONTO, CANADA M5X 1C7 TELEPHONE: (416) 362-6663 TELEX: 06-217766

Property: BAD VERMILLION LAKE #437
Location: 40+00S x 19+00W
Co-ordinates:
Claim: 875551
Section:
Length: 429'
Elevation:
Azimuth: 075° Dip: -45°

HOLE: 437-87-6
Core size: BQ

Dip Tests: @ 249' & 429'
Started: August 15, 1987
Completed: August 25, 1987
Logged by: D. Burrows

DRILL LOG

DEPTH from	DEPTH to	DESCRIPTION NOTE: All angles are measured with respect to the long core axis.	sample number	width	from	to	ASSAYS Au oz/t	ASSAYS Ag oz/t			
0.0	9.1	CASING									
9.1	44.0	MASSIVE TRONDHJEMITE -with a strong purplish-brown colour therefore hematitic with chloritic alteration; top portion 9.1-18.0' highly fractured and broken -unaltered portions at: 24.0-24.5; 25.6-26.2 and 40.2-40.7 with chlorite (?) biotite, qtz, plag and pink ?K-feldspar -granodiorite variety of Shoal Lake Stock -minor qtz-carb stringers, overprinted by hematization at: -24.8' 1cm 45° qtz-carb-minor tourmaline -21.8' 1cm 40° qtz-carb -38.5' 12mm calcite vein 45° -38.8' 1-4mm fe-stained qtz veinlet 50° -47.6' 3mm carbonate 40° stringer									
44.0	62.4	MASSIVE FRESH TRONDHJEMITE/GRANODIORITE -transitional from last section with loss of chloritization and hematitic staining -very fresh portions eg: 56.3-57.0 comprises biotite-chlorite-Kfeld-plag-qtz -at 59.6' 15mm qtz-carb vein at 35°									
62.4	80.5	MASSIVE TO WEAKLY FOLIATED TRONDHJEMITE/GRANODIORITE -weak to moderate alteration (chlorite, sericite, hematite) -64.9' 30° chloritic shear with 1cm symmetrical albitic alteration selvage -68.8' 55° qtz-carb stringer, very minor pyrite -69.7' 45° chlorite-carbonate filled microfracture -73.8' 45° 3mm qtz-carb-chlorite -74.6' 45° fracture-albitic alteration - minor pyrite -74.9' 45° 3-4mm qtz-carb-minor pyrite vein (±?tourmaline)									

DEPTH from	DEPTH to	DESCRIPTION NOTE: All angles are measured with respect to the long core axis.	sample number	width	from	to	ASSAYS Au oz/t	ASSAYS Ag oz/t
80.5	89.3	MASSIVE TO WEAKLY FOLIATED TRONDHJEMITE/GRANODIORITE -same as 62.4-80.5 but gradual increase in degree of shearing towards end of box where a strong 45° fabric is apparent -generally moderately sheared with chloritic alteration and hematite staining -weakly sericitized in patches -gradually loses hematitic colouration to end of box 86.0-87.3 -strongly sheared with several low angle to 45° irregular qtz-carb-chlorite stringers with intervening strong silicified wallrock 88.0-88.7 -40° qtz-carb-chlorite vein - highly sericitized margins; two 7-8mm cubes of pyrite and carb-chlorite filled fractures	18607 18608 18609	2.0 2.0 1.0	84.0 86.0 88.0	86.0 88.0 89.0	Tr. Tr. Tr.	Nil Nil Nil
89.3	113.2	MASSIVE TO WEAKLY SHEARED TRONDHJEMITE -moderately chloritized+sericite and moderate to strong hematization generally around qtz grains 107.9-108.5 -moderate to strong shearing and sericitization, two 50° x 45° 1cm qtz-carb veins at 108.2 and 108.4' -slightly increased pyrite approx 2% in wallrock -at 109.0' 45° 1cm qtz-carb vein -- no sulphides						
113.2	118.2	STRONGLY SHEARED SERICITIZED TRONDHJEMITE -sharp contact (core loss?) at top (gradual at base) with strongly sheared sericitized trondhjemite - yellowish green colour (perhaps epidote also) -at 114.7' 5mm carb stringers in shear 45° .5% disseminated pyrite within actual stringers only -at 116.9-117.1' series of 45° parallel qtz-carb-sericite shear; minor disseminated pyrite around margins -at 118.0' 2m 45° qtz veinlet						
118.2	132.2	WEAKLY SHEARED TO MASSIVE TRONDHJEMITE -gradual change to weakly sheared to massive trondhjemite; weak to moderate alteration (chlorite, sericite) (core poorly polished--rough smatt) -relatively fresh in patches, eg. approx 127.0-129.0' -at 130.3 and 130.8' carbonate stringers 50° and 30°, respectively; few percent pyrite in lower ore						

DEPTH from	DEPTH to	DESCRIPTION NOTE: All angles are measured with respect to the long core axis.	sample number	width	from	to	ASSAYS Au oz/t	ASSAYS Ag oz/t		
132.2	150.4	STRONGLY SHEARED AND SERICITIZED TRONDHJEMITE -gradational contact (at base and top) with strongly sheared and sericitized trondhjemite -mottled qtz eyes texture; lower part 142.8-150.4' is also silicified with growth of larger qtz eyes -at 142.5' 45° and 60° crosscutting 4mm qtz stringers								
150.4	162.5	MASSIVE MODERATELY ALTERED TRONDHJEMITE --massive moderately altered (chlorite, sericite) trondhjemite -at 152.9, 153.3 and 153.5' 1-2cm sheared portions of trondhjemite; minor pyrite								
162.5	203.6	MASSIVE MODERATE ALTERED TRONDHJEMITE -as 150.4-162.5' but reddish-brown (hematitic) alteration, esp. 164.0-177.0' -at 181.2' 3mm qtz-carb stringers -at 178.5-180.5' zone of moderate to strong shearing -at 179.9' two 50° ½cm qtz-carbonate veins -at 180.1' 2cm 45° qtz carbonate -at 178.1' diffuse 25° qtz vein 150.4-167.5 -massive to weakly foliated trondhjemite; weak to moderate sericite and chloritic alteration; ie. as above but without hematitic alter. -hematite staining increases going downhole; some small carbonate stringers -at 190.7' 3-4mm qtz vein with pyrite and minor cpy at 50° cut by carb stringers in small reverse fault (1cm displacement)								
203.6	224.6	MASSIVE MODERATELY ALTERED TRONDHJEMITE -as last section but stronger hematitic colouration esp. 207.0-216.0'; ie. massive to weakly foliated trondhjemite -at 203.9' 80° 1cm qtz-pyrite (5%) vein -at 204.9' 43° 3mm qtz-carb-minor pyrite -at 209.4' silicified shear zone 2cm wide; minor pyrite -at 211.5' sericitized 2' shear; coarse pyrite 5% -at 217.6' 3-4mm qtz vein; minor pyrite approx. 45°								

DEPTH from	DEPTH to	DESCRIPTION NOTE: All angles are measured with respect to the long core axis.	sample number	width	from	to	ASSAYS Au oz/t	ASSAYS Ag oz/t
224.6	330.0	MODERATE TO STRONGLY SHEARED/ALTERED TRONDHJEMITE -moderate to strongly sheared and altered (sericite, chlorite, minor hematite) trondhjemite -at 225.1' 2mm qtz-pyrite veinlet in 5cm of strongly sericitized trondhjemite possible minor cpy and galena -at 227.0-229.0' strongly sheared and sericitized zone of core seven 1-3mm qtz stringers generally approx 45°; also some silicification -at approx 230.0' 5% pyrite over 2-3" -at 230.8' 3mm 30° qtz-carb stringers; between 232.0-233.0' four diffuse qtz stringer ≤ 2mm; minor pyrite -at 241.0-241.1' 30° 1" qtz vein; minor cpy and ?MoS_2 -at 242.4' 4mm hematite stained qtz vein at 45° -variable degree of shearing moderate to strong, weak hematite staining in places some carbonate stringers						
		N.B. at 247.3-248.1' 10" Fe-stained qtz vein approx 70°, laminated on 1cm scale approx. 3-4% fine sulphides; blue-grey mineral (?bismuthanite) most common with minor pyrite, cpy and silver-grey mineral (?arsenopyrite/native Ag??)	18611	1.3	247.0	248.3	Tr.	Nil
			18612	1.5	263.0	264.5	Tr.	Nil
		-at 256.4' 1cm qtz-carb-pyrite 45° vein - one grain of sphalerite (?) -at 263.3' 4" qtz with sericite/chlorite lamellae in sheared silicified trond carbonate along margins, 1% pyrite -after 280.3' core rough and poorly polished appears similar to previous core or may be slightly more altered with more diffuse contacts to grains -core lost approx 298' with pieces of qtz vein and highly altered (carbonate alteration) trondhjemite -at 306.2' 40° qtz-carb in small 4cm shear -at 324.5-325.7' zone of silicification (growth of qtz eyes) with 4mm qtz-carbonate at 325.1'	18613	3.5	264.5	268.0	Tr.	Nil
330.0	357.0	MASSIVE TRONDHJEMITE -gradual change to massive trondhjemite with moderate chloritic and sericitic alteration; minor zones of silicification -at 336.1' 45° 2mm qtz-carbonate -at 336.3' 50° 1cm qtz-carbonate; minor pyrite						
357.0	371.5	FRESH TRONDHJEMITE -massive relatively fresh trondhjemite; some relict biotite; good igneous texture						

DEPTH from	DEPTH to	DESCRIPTION NOTE: All angles are measured with respect to the long core axis.	sample number	width	from	to	ASSAYS Au oz/t	ASSAYS Ag oz/t
371.5	375.5	SHEARED TRONDHJEMITE -strong to moderate sheared trondhjemite, approx 1% pyrite; ends at bottom with strong 20° shear with increased pyrite (4-5% over 5")						
375.5	381.0	FOLIATED TRONDHJEMITE -massive to weakly foliated trondhjemite; moderate of plagioclase and biotite to sericite and chlorite respectively; minor carbonate stringers; trace pyrite						
381.0	398.2	FOLIATED TRONDHJEMITE -massive to weakly foliated trondhjemite (as 375.5-381.0 above) but with increased disseminanted pyrite, up to 1-2%; some ≤2mm carbonate stringers -at 388.5' silicified 2cm shear with increased pyrite (5% over 1") N.B: at 388.9-398.2' has approx 12 qtz tourmaline (± carbonate) filled hairline fractures; one 2mm qtz-tourmaline at 392.7' with grain of galena; others with pyrite in and around veinlet margin; minor albitic alteration associated with these stringers						
398.2	399.0	SILICIFIED/SERICITIZED SECTION -silicified strongly sheared and sericitized section adjacent to vein; 1-2% py						
399.0	410.3	QUARTZ VEIN -including trondhjemite inclusions at: -399.1' 3" wide -402.8-405.3' sericitized silicified trondhjemite with reddish-brown carb/anhydrite with thin ≤1cm qtz stringers -at 409.7' 1" trondhjemite inclusion -at 399.3' at edge of wallrock inclusion, two thin veinlets of fine pyrite parallel to vein margin approx. 45° 399.3-401.4 -greyish qtz (due to ?sericite lamellae) with 45° crack-seal texture giving banded appearance; minor tourmaline; cpy and sph approx 15% total; lesser pyrite (≤2%); sulphides mainly on irregular structures 401.4-403.8 -white qtz with sericite lamellae; minor pyrite (≤1%) and sphalerite (~2%); sphalerite associated with late fractures with clear qtz						

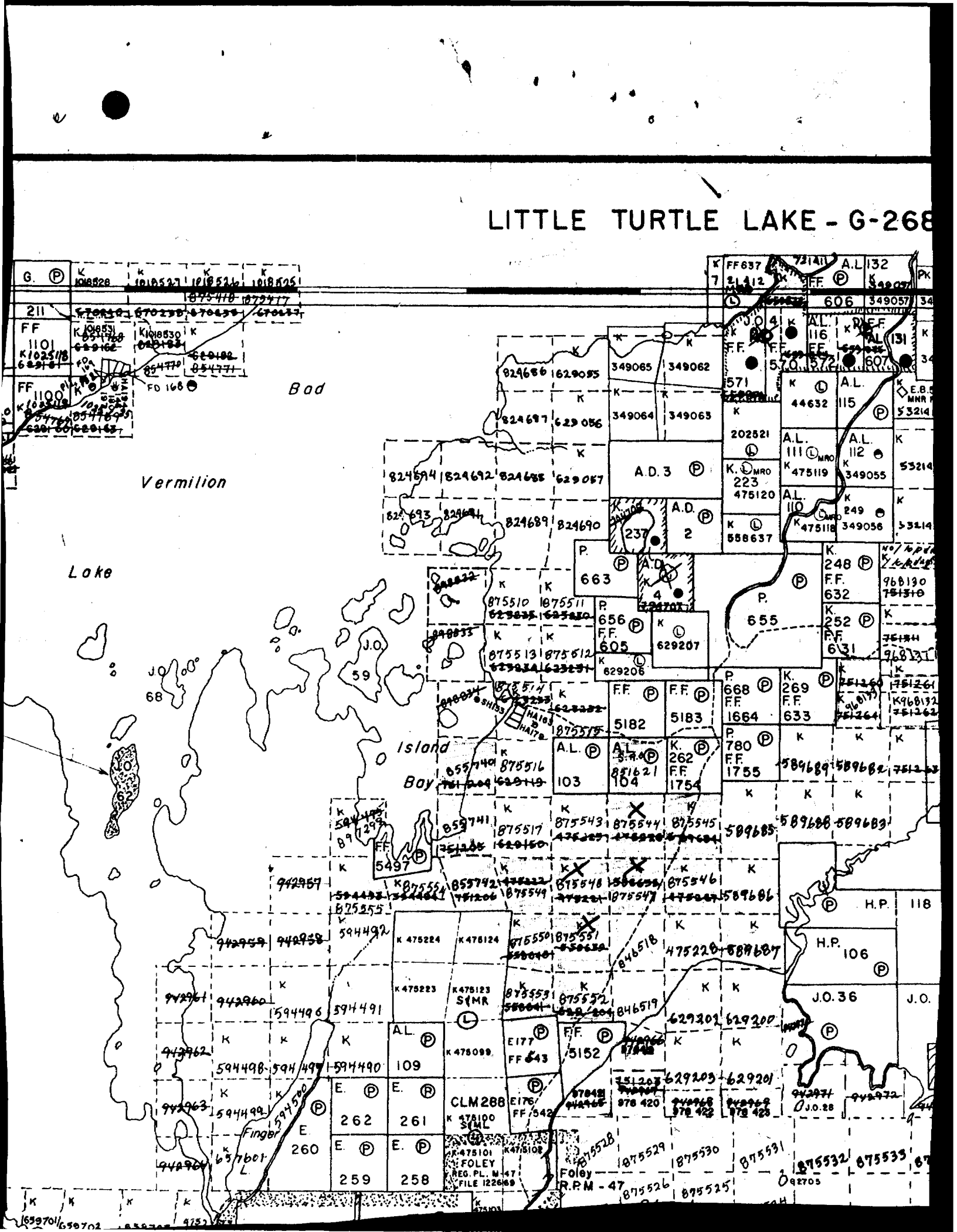
DEPTH from	DEPTH to	DESCRIPTION NOTE: All angles are measured with respect to the long core axis.	sample number	width	from	to	ASSAYS Au oz/t	ASSAYS Ag oz/t
371.5	375.5	SHEARED TRONDHJEMITE -strong to moderate sheared trondhjemite, approx 1% pyrite; ends at bottom with strong 20° shear with increased pyrite (4-5% over 5")						
375.5	381.0	FOLIATED TRONDHJEMITE -massive to weakly foliated trondhjemite; moderate of plagioclase and biotite to sericite and chlorite respectively; minor carbonate stringers; trace pyrite						
381.0	398.2	FOLIATED TRONDHJEMITE -massive to weakly foliated trondhjemite (as 375.5-381.0 above) but with increased disseminated pyrite, up to 1-2%; some ≤2mm carbonate stringers -at 388.5' silicified 2cm shear with increased pyrite (5% over 1") N.B. at 388.9-398.2' has approx 12 qtz tourmaline (± carbonate) filled hairline fractures; one 2mm qtz-tourmaline at 392.7' with grain of galena; others with pyrite in and around veinlet margin; minor albitic alteration associated with these stringers						
398.2	399.0	SILICIFIED/SERICITIZED SECTION -silicified strongly sheared and sericitized section adjacent to vein; 1-2% py						
399.0	410.3	QUARTZ VEIN -including trondhjemite inclusions at: -399.1' 3" wide -402.8-405.3' sericitized silicified trondhjemite with reddish-brown carb/anhydrite with thin ≤1cm qtz stringers -at 409.7' 1" trondhjemite inclusion -at 399.3' at edge of wallrock inclusion, two thin veinlets of fine pyrite parallel to vein margin approx. 45° 399.3-401.4 -greyish qtz (due to ?sericite lamellae) with 45° crack-seal texture giving banded appearance; minor tourmaline; cpy and sph approx 15% total; lesser pyrite (≯2%); sulphides mainly on irregular structures 401.4-409.8 -white qtz with sericite lamellae; minor pyrite (≤1%) and sphalerite (≈2%); sphalerite associated with late fractures with clear qtz						

RESOURCES LIMITED

ASSAY SUMMARIES

DRILL HOLE NUMBER	FOOTAGE from	FOOTAGE to	SAMPLE NUMBER	ASSAYED BY: Custom F.A. BW	SW	XR	THR	VALUE Au oz/t	Ag oz/t	REFERENCE: Drill Log	Sample dispatch	Assay Result	Re-Assayed SAMPLE NUMBER	ASSAYED BY: BW	SW	XR	THR	VALUE Au oz/t	Ag oz
437-87-6																			
	84.0	86.0	18607					Trace	Nil	X	X	X							
	86.0	88.0	18608					"	"	"	"	"							
	88.0	89.0	18609					"	"	"	"	"							
	225.0	231.0	18610					"	"	"	"	"							
	247.0	248.3	18611					"	"	"	"	"							
	263.0	264.5	18612					"	"	"	"	"							
	264.5	268.0	18613					"	"	"	"	"							
	398.0	399.0	18614					"	"	"	"	"							
	399.0	399.5	18615					.01	"	"	"	"							
	399.5	401.5	18616					"	"	"	"	"							
	401.5	403.0	18617					.02	"	"	"	"							
	403.0	405.5	18618					"	"	"	"	"							
	405.5	407.0	18619					"	"	"	"	"							
	407.0	409.5	18620					"	"	"	"	"							
	409.5	411.0	18621					"	"	"	"	"							

LITTLE TURTLE LAKE - G-268



Assess Files

BAD VERMILION L. 2665

Ministry of Natural Resources — Ontario

Report of Work

Project #637

DOCUMENT No. W8801.132

The Mi

52C10NE0038 32 BAD VERMILION LAKE

900

Name and Postal Address of Recorded Holder

OROFINO RESOURCES LIMITED

P.O. Box 143, 2701 - 1 First Canadian Place, Toronto, Ontario M5X 1C7

Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed: 1616

for Performance of the following work. (Check one only)

- ☐ Manual Work
- ☐ Shaft Sinking Drifting or other Lateral Work.
- ☐ Compressed Air, other Power driven or mechanical equip.
- ☐ Power Stripping
- ☒ Diamond or other Core drilling
- ☐ Land Survey

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.
K	851621	21	K	875548	100			
[redacted]	855740	100	[redacted]	875549	100	[redacted]		
	855741	100		875550	100			
	855742	100		875551	100			
	875544	100		875552	100			
	875545	100		875553	100			
	875546	100		875554	140			
	875547	100		875555	155			

All the work was performed on Mining Claim(s): K-875544, K-875547, K-875548, K-875551

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

JKS SMIT 300 and LONGYEAR 38

Triangle Drilling Company Ltd.
106 Field Road
R.R. #2
Lively, Ontario
POM 2EO

ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES
OFFICE
MAY 19 1988
RECEIVED

437-87-1	149'
437-87-2	231'
437-87-3	159'
437-87-4	429'
437-87-5	219'
437-87-6	429'
	1,616'

August 2, 1987 - August 25, 1987

KENORA MINING DIV.
RECEIVED
MAR 31 1988
AM 7 8 9 10 11 12 1 2 3 4 5 6 PM

Date of Report: March 25, 1988

Recorded Holder or Agent (Signature): Francis T. Manns

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

Dr. Francis T. Manns, 42 Highfield Road

Toronto, Ontario M4L 2V1

Date Certified: March 25, 1988

Certified by (Signature): Francis T. Manns

Table of Information/Attachments Required by the Mining Recorder

Type of Work	Specific Information per type	Other Information (Common to 2 or more types)	Attachments
Manual Work	Nil	Names and addresses of men who performed manual work/operated equipment, together with dates and hours of employment. 851621	Work Sketch: these are required to show the location and extent of work in relation to the nearest claim post.
Shaft Sinking, Drifting or other Lateral Work			
Compressed air, other power driven or mechanical equip.	Type of equipment		
Power Stripping	Type of equipment and amount expended. **Note:** Proof of actual cost must be submitted within 30 days of recording.	Names and addresses of owner or operator together with dates when drilling/stripping done.	
Diamond or other core drilling	Signed core log showing; footage, diameter of core, number and angles of holes.		Work Sketch (as above) in duplicate
Land Survey	*Name and address of Ontario land surveyor.*	Nil	Nil

768 (81/3)