

DIAMOND DRILLING

The state of the s

・ 1、新年の大きの東京というのであると、100mmのでは、100mmので

AREA: BAD VERMILLION LAKE REPORT NO: 33

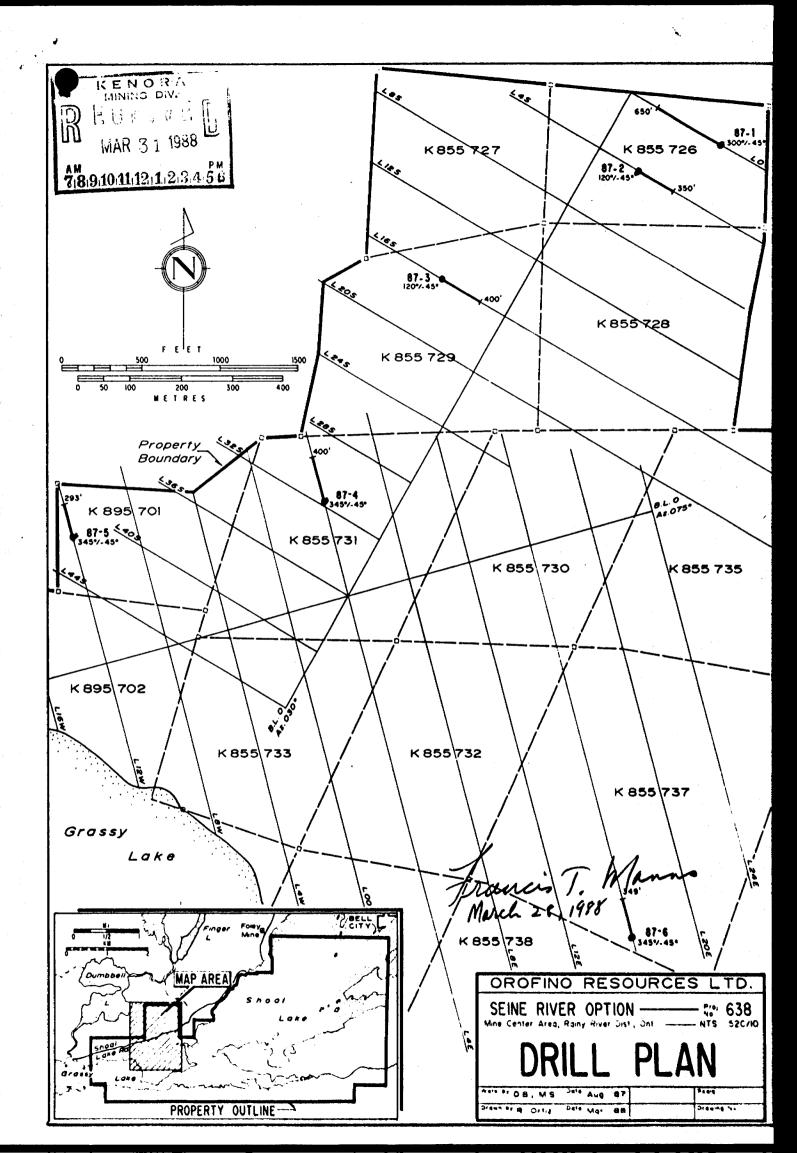
WORK PERFORMED FOR: Orofino Resources Limited

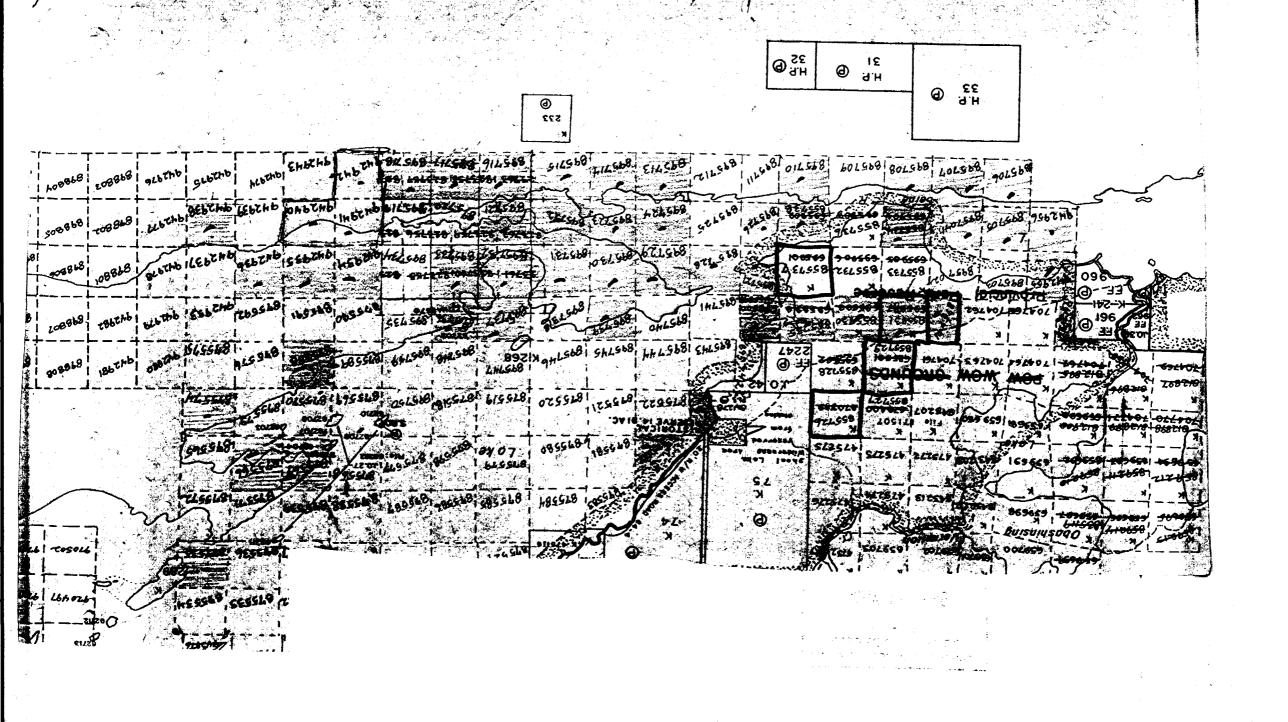
Same as above [xx]
Other [] RECORDED HOLDER:

Claim No.	Hole No.	<u>Footage</u>	<u>Date</u>	Note
K 855726	438-87-1 438-87-2	650' 350'	Aug-Sept/87 Sept/87	(1)(2) (1)(2)
K 855729	438-87-3	400'	Sept/87	(1)(2)
K 855731	438-87-4	400'	Sept/87	(1)(2)
K 895701	438-87-5	293'	Sept/87	(1)(2)
K 855737	438-87-6	3491	Sept/87	(1)(2)

(1) #W8801.128, filed in Oct/88 NOTES:

> (2) additional information (Relogging + Geology) available in File 63.5451





Kranist, Warr

ONTARIO GEOLOGICAL SURVEY ASSESSMENT FILES **OFFICE**

MAY 19 1988

RECEIVED

Page 1

DRILL LOG

P.O. BOK 143, 1 FIRST CANADIAN PLACE, TORONTO, CANADA M5X1C7 TELEPHONE: (416) 362-6683 TELEX: 06-217766

Property: SEINE RIVER Location: 0+00; 6+64E

Co-ordinates: Claim: K-855726

Section: 0+00; Grid #1

Length: 650'

Elevation: Azimuth: 300° Dip: -45° HOLE: 438-87-1 Core size: BQ

Assayed by: Custom F.M.

Dip Tests: None
Started: August 25/87
Completed: September 3/87
Logged by: Mary Stalker

_			AZIMUCH: 300	U1D: 43		rodded	l Dy: n	mry st	TIPEL			
	DEP	TH	DESCRIPTION	sample	width	from	to		A	SSAYS		
	from	to	MOTE: All angles are measured with respect to the long core axis.	number				Au Oz/t	Ag os/t			
	0.0	7.2	CASING									
	7.2	28.1	MASSIVE TO MEAKLY SHEARED TOWALITE -light, coarse grain unit with coarse grain chlorite (25%), creamy-pink plag. (55%), qtz (\$\subseteq\$20%), trace epidote -chlorite grains often aligned to give moderate foliation (25°) with infrequent hematite staining -frequent fractures filled with carbonate or chlorite (\$\subseteq\$45° and \$\subseteq\$70°) and occasional \$\subseteq\$" stringers of carbonate -fine grain pyrite found disseminated throughout or grouped in blebs often in	18622	1.0	7.4	8.4		MIL.			
			fractures (1%), trace cpy 7.9-8.0 4 carbonate/chlorite/qtz stringer (600), weathered looking ankerite stained 21.9-24.2 zone contains a more mafic phase of the tonalite, finer grained than the rest of unit (medium grain); more fractures are present which are often filled with pyrite (3% over zone) 24.5-24.8 same as 21.9-24.2		1	ran	آ س	-,)	Na	~~		
1	28.1	36.3	MODERATELY SHEARED TOWALITE				1			٠		
1			-grey, coarse grain unit, feldspar grain boundaries are no longer distinct, moderately altered with increase in silicification, sericitization and mafic minerals									
١			-well fractured with carbonate, chlorite and pyrite filling fractures, core is broken up more through zone	18623	4.2	28.1	32.3	Tr	HIL		. 1	•
			-mafic minerals show foliation at approx. 40° -with a few % carbonate stringers at 45° -irequent fine grain, tan mineral (albite?) with distinct boundaries, fine grain pyrite in fractures (3%)	18624	4.0	32.3	36.3	Tr	NII.			
			33.3-33.4 ½ qtz/carbonate stringers with chlorite, pyrite (1%) 35.9-36.1 2" of ground and missing core with some pieces containing qtz stringe	:8								

		DESCRIPTION	sample		6	**		AS	SAYS	
DEP from	to	NOTE: All angles are measured with respect to the long core axis.	number	width	from	to	Au oz/t	Ag oz/t		
36.3	51.1	MASSIVE TONALITE -very similar to 7.2-28.1' but grain boundaries are even more distinct, and there is an increase in hematite staining giving the zone its pink colour -a few small sections with many fractures filled with carbonate and chlorite -fine grain pyrite is associated with the mafic minerals or is in the fractures (3%), epidote is often found near fractures in trace amounts.	18625 18626	1.0 5.7	43.6 45.4	44.6 51.1	Tr Tr	MIL MIL		
		44.0-44.3 DIORITE DYKE, intermediate intrusive with medium to coarse grain euhedral plagioclase, hematite staining; 3% fine grain pyrite found mainly as 1 stringer, trace cpy; distinct upper and lower boundary at 70° 45.4-51.1 mafic phase with 30-40% mafics, decrease in hematite staining; in general, contains less qtz but with siliceous patches; with a few fractures (40°) filled with chlorite; 5% fine grain to medium grain pyrite found as euhedral cubes with mafic minerals							-	
51.1	53.3	GRANODIORITE -a light coloured phase of the tonalite with increase in feldspar and qtz which are both finer, mafic content decreases, zone has a bleached appearance -locally well hematite stained -phase occurs quite suddenly but there are no regular contacts -2% fine grain euhedral pyrite over zone associated with chlorite grains	18627	2.2	51.1	53.3	Ťr	NIL		
53.3	56.9	MODERATELY SHEARED TONALITE -similar to 28.1-36.3' -intensity of shearing gradually increases over zone -zone is well fractured with carbonate filling fractues, first 1½" is breccis -moderate foliation at 40° -5% medium grain pyrite as euhedral cubes, trace cpy 55.6-55.8 ½" carbonate/qtz stringers at 10°	18628	3.6	53.3	56.9	Î	WIX.		
56.9	60.9	STRONGLY SHEARED TONALITE -green grey, strongly foliated (30-40°), shearing causes grained to lose original shape, start to get a few blue-grey qtz eyes, extremely sericitized, amount of mafic minerals increase -zones on either side gradually build up to this middle zone -tan euhedral mineral (as in 28.1-36.3') is found throughout zone	18629	4.0	56.9	60.9	Tr	WIL		

170.35 30.00

ार के जिल्ला है। जा करते कि कार के <mark>कि के</mark> निवक्ती

maga a Maria

		DESCRIPTION	sample	width	from	to		A	SSAYS	:
DEP from	to	NOTE: All angles are measured with respect to the long core axis.	number	widen	1700	.0	Au oz/t	Ag oz/t		•
		-a few %" carbonate and qtz stringers at 50°, zone is well defined but has no regular contacts -12 pyrite and % cpy usually associated with chlorite or sericite -centre (58.2-59.2) of zone is extremely sheared and altered and is folded and kinked, contains boudinaged qtz and chlorite and carbonate stringers (up to %")								
60.9	69.0	slightly hematite stained, extremely sericitized including coarse grain sericite MODERATELY SHEARED TONALITE -similar to 28.1-36.3' -intensity of shearing gradually decreases over zone -moderate foliation at 40° -many fractures filled with carbonate at 30° -½ pyrite, trace cpy, pyrite rich locally in carbonate stringer	18630 18631	4.1 4.0	60.9 65.0		Tr Tr	MIL		
69.0	75.6	64.4-66.9 % irregular (but at low *), carbonate stringer WEAKLY SHEARED TOWALITE -similar to 7.2-28.1 but a very mafic phase with approx 45% mafic minerals and with frequent sericite, epidote is frequently found in hairline fractures and replacing mafic minerals, with many blue-grey qtz eyes -small sections of zone are often bleached from medium green to greenish yellow -trace pyrite, moderate foliation at 40°				·				+
75.6	87.2	72.5-72.9 1" qtz/chlorite/carbonate veinlet (20°) MODERATELY SHEARED TOMALITE -somewhat similar to 28.1-36.3° but slightly more sheared and a very mafic phase with 65% mafic minerals, with frequent blue-grey qtz eyes, trace epidote, slightly sericitized -moderate foliation (40°), very occasional hematitic staining -core is quite broken throughout zone and very well fractures often filled with carbonate or chlorite throughout zone -2 pyrite usually as fine grains in stringers along fractures, trace cpy -zone is well defined but has no regular contacts	18632 18633	6.2 5.4	75.6 81.8	81.8 87.2		MIL		•
<u> </u>		76.7-77.1 1" qtz vein (25°) with carbonate/chlorite 78.0-79.2 1" semi-regular qtz vein (0°) with carbonate/chlorite 79.5-79.9 1½" irregular qtz vein (660°) with carbonate/chlorite				•				

	-	DESCRIPTION	sample	width	from	to		A:	SAYS	
DEP	to	NOTE: All angles are measured with respect to the long core axis.	number	WIGCH	TTOM		Au oz/t	Ag oz/t		
87.2	103.7	WEAKLY SHEARED TONALITE -same as 69.0-75.6' except for epidote is less frequent and there are even more mafic minerals (50%) -with a few small sections of moderately sheared tonalite which have many fractures filled with chlorite or carbonate -with a few carbonate stringers of less than %" (40-50° or irregular) -with 1% fine grain pyrite in blebs filling fractures found mostly in the moderately altered sections								
103.7	120.7	STRONGLY SHEARED TONALITE -green grey, moderate to strong foliation (40°), well sericitized, moderately silicified -grains lose all distinct shapes except for chlorite, frequent blue-grey qtz eyes -occasional hematite staining, well fractured with small irregular fractures filled with carbonate -5% pyrite over zone usually as medium grain in stringer filling fractures, trace cpy 105.5-107.5 more strongly sheared, foliation is kinked, with large amounts of chlorite and sericite 108.5-108.7 l" white qtz vein (35°) with tournaline and trace cpy, with frequent pyrite in wallrock on either side 111.3-114.2 weakly sheared tonalite; same as 87.2-103.7' 118.8-119.3 \frac{1}{2}" white qtz stringer (20°), some hematite staining with 5% cpy	18634 18635 18636 18637	4.3 1.0 2.3 6.5	103.7 108.0 109.0 114.2	109.0 111.3	Tr Tr	HIL HIL HIL		
120.7	128.3	WEAKLY TO MODERATELY SHEARED TORALITE -similar to 87.2-103.7' but grains are slightly less distinct and with occasional \forall^\mathrm{\text{carbonate}} \text{carbonate} \te								
128.3	160.9	STRONGLY SHEARED TOWALITE -same as 103.7-120.7' except this zone contains only 1% pyrite usually medium grain in fractures and locally pyrite rich especially in carbonate stringers -with abundant carbonate stringer (less than 1/2") at 20-40° often with chlorite and occasional tournaline -trace cpy	18638 18639 18640 18641 18642	5.0 5.0 5.1 1.0 5.0		144.4	Tr Tr Tr	NIL NIL NIL		

新された かかさ

Contract of the second

	· · ·	DESCRIPTION	sample	width	from	to		A	SSAYS	·····	;
from	to	MOTE: All angles are measured with respect to the long core axis.	number	MIGUI	Tron	LO	Au OZ/t	Ag oz/t			:
		128.3-160.9 STRONGLY SHEARED TONALITE (con't) 138.9-140.2 strongly sericitized zone 140.4-140.6 a 1 st semi-irregular diorite dyke (approx 50 ^o), intrusive contact is somewhat altered by shearing (fuzzy in places) 143.4-144.4 first 0.6' is well hematite stained and the whole zone is strongly sericitized	18643 18644	5.5 6.0		154.9 160.9		MIL.			
160.9 -	169.0	STRONGLY SHEARED TOWALITE -same as 128.3-160.9° except that it is more strongly and obviously foliated (36° -well silicified which gradually increases to next zone, well sericitized -many fractures filled with chlorite and carbonate with occasional tournaline -2% fine to medium grain eubedral cubes of pyrite in fractures or in blebs	18645 18646 18647	1.4 ·2.1 4.6	162.3	162.3 164.4 169.0	Tr	NIT NIT			
•		162.3-164.4 MAFIC WOLCAMIC -medium grey green fine grain to medium grain, slightly bleached looking mafic -with a fault contact with top unit filled with carbonate and chlori slightly brecciated around and semi-irregular (approx 40°) sharp bottom contact -fine grain carbonate disseminated throughout, many hairline fractur semi-parallel to long core axis with ½ carbonate stringer (60°), semi-regular, with some qtz, chlorite, tourmaline and pyrite (3%) running through whole zone -1% fine to medium grain pyrite throughout zone, usually in fracture									
169.0	175.5	STRONGLY SILICIFIED, STRONGLY SHEARED TONALITE -same as 160.9-169.0° except that it very strongly silicified giving the unit a white-grey colour (approx 75% qtz) -with abundmat carbonate stringer (approx 35°) usually less than ½" and carbonate pods, both are usually rimmed by chlorite -3% fine grain pyrite usually in stringers, trace cpy	18648 18649	4.0 2.5		173.0 175.5	1 - ·	nil nil			1
175.5	178.1	171.4-171.7 '4" carbonate stringer (30°) with qtz and carbonate, 5% fine grain pyrite, a few '4" vugs present in vein									
	<u> </u>	<u> 1900 – Program State de Carlos de la Carlo de Carlos d</u>									

net		DESCRIPTION	sample	width	from	to		A	SSAYS		
DEP from	to	NOTE: All angles are measured with respect to the long core axis.	number			"	Au oz/E	Ag oz/t			
		175.5-178.1 WHITE QUARTZ VEIN (con't)				1				一	_
		-both contacts sharp, upper (35°), lower (30°) -with many fractures occasionally filled with tourmaline or pyrite or carbonate	18650	1.6	175.5	177.1	Tr	WIL		ı	
		or sericite -zone is often grey in patches (from buried mineral?) -lX native silver often in associated with pyrite or tourmaline -5% fine grain to coarse grain pyrite, often in fractures or as coarse grain together in blebs, trace cpy, frequent tourmaline	18651	1.0	177.1	178.1	Tr	NIL			
-		175.6-175.7 contact is sharp (35°) and starts with a carbonate/tourmaline/chl vein (35°) and a tourmaline vein (35° both less than 1/8" wide with minor cpy and pyrite 175.8-176.0 1" wallrock inclusion; (40°), well altered and sheared, abundant sericite									
٠.		176.8-177.3 2" well altered and sheared wallrock inclusion (25°), 5% pyrite usually disseminated throughout, trace cpy								l	
•		177.8-178.1 last 1" of zone is grey qtz vein with wallrock inclusions and carb (40°) with 15% pyrite, 3% native silver, trace cpy								- 1	
178.1	190.8	STRONGLY SHEARED, STRONGLY ALTERED BLEACHED LOOKING TONALITE -light green, bleached out lokking core, well sericitized and albitized with	18652	2.2	178.1	180.3	Tr	NIL			
		abundant qtz eyes (main component, moderate silicified) -some small zones are a darker more normal colour, especially those near qtz	18653	1.5	180.3	191.8	Tr	NIL			
		veins or stringers -foliation at 40°, moderately fractured usually filled with carbonate and chlorite	18654	2.4	181.8	184.2	Tr	WIL		.	
		-with occasional k" carbonate stringers (40-50°)	19633	3.0	184.2	187.2	Tr	NIL			
		-5% medium grain to coarse grain pyrite over zone usually associated with chloritand often in fracture, locally very abundant often as large cubes grouped together, trace cpy	18656	3.6	187.2	190.8	Tr	WIL			
.		179.6-179.8 ½" semi-irregular qtz stringer (40°) with pyrite, trace cpy 180.1-180.7 six qtz/carbonate stringers (40°) of less than ½", in well silici- fied zone with 10% fine grain to coarse grain pyrite throughout zone except not in stringer	·								
		180.8-181.5 a 3" waxy white irregular qtz vein (40°) with minor carbonate, tourmaline, well fractured and infilled with carbonate; wallrock inclusions contain 10% (over zone) coarse grain pyrite	·								
i											

A CONTRACTOR OF THE STATE OF TH

Page 7 of 2

	_	DESCRIPTION	sample	width	from	to	1	A	SSAYS	
DEP from	to	NOTE: All angles are measured with respect to the long core ax	is. number	W. G.C.	170		Au OZ/t	Ag oz/t		
		178.1-190.8 STRUNGLY SHEARED, STRONGLY ALTERED BLEACHED LOOKING TONALITE (con't)		1						
		181.8-184.2 DIORITE DYKE WITH PHENOCRYSTS -tan, fine grain, with many blue opalescent rounded cordierite? perhaps qtz phenos, chlorite grains, with rounded carb phenos, qtz eyes and feldspar phenos; foliation (40°), well fractured usually filled with chlorite or carbonate, looks bleached, well altered and sheared -both contacts sharp, upper (30°), lower (40°) -10% pyrite as fine grain disseminated or coarse grain in fractu and forming large patches of pyrite, occasional pyrite in cordie quartz 181.7-182.2 a 2" waxy white regular qtz vein (approx 40°) inter secting the contact between tonalite and dyka with and cpy in wallrock, vein well fractured with carbo and chlorite 182.7-183.2 1" waxy white, sigmoidal qtz vein (30°), well fract (approx 50°) with chlorite and tournsline, trace py 184.8-184.9 a 4" waxy white regular qtz stringer (35°), well fractured with	res rite/ - Py nate ured							
	1	some carbonate	l	1	l	l	1			
	į	185.0-185.2 a 4" boudinged carbonate stringer (40°)		1	ł	ł	Ì			ı
		187.3-187.8 15Z pyrite over zone associated with carbonate in chlorite rich areas in coarse grain that appears to have been brecciated from one large grain, also medium grain pyrite in fractures, zone dar and more highly sericitized	ker							
		187.8-188.4 dark green-grey zone of intense sericitization, strongly sheared very little zone	1. 1.	1		ŀ	l			
		188.4-189.3 a 1½" and 2½" waxy white regular (30°) qtz stringer in a 5" well silicified zone; both contacts are sharp at 30°, with some fractures, well sericitized; trace cpy	t-							
8.00	193.	LAMPROPHYRE/DIORITE DYKE -fine grain to medium grain, light green well altered and sheared mafic intru with large chlorite veins -whole zone look bleached but especially light at 192.1-193.2, becomes yello around qtz/carbonate vein	į.							
		-foliation at 60° with a few large qtz pheno's with foliation bending around them, with fine grain tan mineral in stringer (albite?)								

	NT-0	DESCRIPTION	sample	width	from	to		٨	SSAYS	-
from	to	NOTE: All angles are measured with respect to the long core axis.	number	Widen			Au oz/t	Ag oz/t		Γ
193.1		-upper contact (40°) has 1" qtz vein filling it -trace pyrite throughout mostly in carbonate stringer, most pyrite in first 1' of zone 190.7-190.9 1" chlorite/carbonate/tourmaline/qtz vein (40°), tourmaline in 1/8" band (40°), with sericite	18657 18658	2.3	193.1	193.1 194.1	Tr	NIL		
		sheared, foliation at 35° -moderate hematite staining, well fractured many filled with carbonate -1Z pyrite is disseminated throughout with local pyrite rich zones -QUARTZ-white waxy qtz, occasional hematite staining, well fractured, often qtz vein contains some remnant signs of previous tonalite 193.2-194.1 quartz vein with 5Z coarse grain pyrite occasionally in fractures 1Z cpy, 1Z native silver occasionally associated with pyrite, trace bismuthite? tournaline, minor molybdenite; both contacts sharp, upper (75°), lower (40°) 194.1-194.4 tonalite, as above 194.4-194.9 4" qtz vein, infrequent hematite staining, 5Z pyrite mostly coarse grain often in fractures, some fine grain 194.9-196.2 tonalite, as above 196.2-196.4 2" qtz vein (45°) with 5Z pyrite, 1Z native Ag, trace cpy 196.4-197.0 very strongly silicified tonalite, almost qtz vein just barest remnant texture remains; moderate hematitic alteration, 5Z coarse grain pyrite, trace cpy 197.0-198.2 qtz with many fractures filled with carbonate and some silicified tonalite inclusions; 10% cpy, 5Z pyrite, minor tournaline and sericite, contacts gradual as rock becomes more qtz rich 198.2-199.0 strongly silicified tonalite, with many pods of qtz, 5% cpy, 3% pyri chlorite, sericite	18659 18660 18661 18662 18663 18664 18665 18666 18667 18668 18669 18670 18671 18672 18673 18674 18675 18676 18677	1.7 1.0 2.0 1.5 1.5 1.7 1.1 1.0 1.0 1.0 1.0 1.0 1.0	195.8 196.8 198.8 200.3 201.8 203.5 204.6 205.6 207.6 210.6 211.6 211.6 211.6 211.6 211.6	196.8 198.8 200.3 201.8 203.5 204.6 205.6 206.6 207.6 210.6 211.6 212.6 213.6 214.6 215.6	Tr Tr Tr Tr Tr Tr Tr Tr Tr Tr Tr Tr	MIL WILL WILL WILL WILL WILL WILL WILL W		

Page g of 20

		DESCRIPTION	sample	width	from	to		A	SSAYS	
DEP:	to	NOTE: All angles are measured with respect to the long core ax	is. number	Wigth	1700	10	Au oz/t	Ag oz/t		
-170=	10	193.1-218.2 QTZ VEIN & STRONGLY ALTERED & SHEARED, INTENSELY SILICIFIED TONALITE	(con't)	 		 	 	 		
		199.0-199.9 9" qtz vein with semi-irregular boundaries (35°), 10% cpy often i carbonate filled fractures, 2% pyrite, with sericite 199.9-200.6 as 196.4-197.0; 1% pyrite, minor cpy	n							ļ
		200.6-201.2 6° grey and pinkish white qtz vein (25°) with blue grey tonalite inclusions, 5% coarse grain pyrite, 2% molybdenite giving the qtz its grey colour, both usually in fractures, trace Ag								
		201.2-202.2 tonalita as above, 3% pyrite, trace cpy, at201.4-201.8' a 1" qtz vein (35°) 1% cpy								
		202.2-203.6 tomalite as above except for blue-grey colour from sericite, limi hematite staining; 1% pyrite mostly at end of zone near dyke cor		1			İ	·		ļ
		203.6-204.7 LAMPROPHYRE/DIORITE DYKE; fine grain groundness with large grains of chlorite; both sharp contacts (40°), strongly sheared, foliati 40°; pink with green chlorite; at 204.3-204.7 chlorite grains die out and rock becomes very pink; 1% medium grain euhedral pyr	on							
		204.7-207.2 white qtz vein with 5% pyrite mostly in fractures, minor moly and Ag (4%) 4% bismuthmite(?), trace hematite								
		207.2-208.1 well silicified tonalite with 2" pods of qtz, 5% py, trace moly. 208.1-216.5 qtz often_greyish especially around fractures, both contact sharp		ļ	l					-
		upper (40°), lower (30°); with very occasional 2" inclusion of to as pods in qtz; 2% pyrite, 2% cpy, ½% Ag, trace moly, trace hem	nalite							
	·	bismuthmite? 212.2-213.3 3Z Ag over zone 214.0-214.2 2Z Ag over zone 215.2-215.4 5Z Ag over zone								
	·	216.5-217.0 bleached tonalite well carbonated and silicified vein (30°) with tournaline in bands (52)	4							
		217.0-218.2 greyish qtz as above, 5% pyrite minor tourmaline and sericita, bo contacts sharp (35°), ½ Ag 217.9-218.0 3% Ag	th							
15.2	251.5									
		 -light red and green, coarse grain, well chloritized, moderate to silicified to abundant qtz eyes, moderately sericitized 	ith 18678 18679	2.0 5.0		220.2 225.2		MIL		
		-well hematite stained especially stained from 231.4' to end of zone, hematite seems to preferentially stain qtz eyes		5.0 3.8	225.2	230.2 234.0	Tr	MIL		

		DESCRIPTION	sample	width	fram	to		A	SSAYS	
from	to	NOTE: All angles are measured with respect to the long core axis.	number	Width	TITOM	to	Au oz/t	Ag oz/t		
		218.2-237.5 STRONGLY HEMATIZED AND MODERATE TO STRONGLY SHEARED TONALITE (con't)					Ī			
		-foliation (40°), well fractured especially towards bottom filled with chlorite, occasional carbonate, carbonate disseminated throughout as blebs often beside qtz eyes -occasional small bleached zones in first 5' of zone -3% medium grain euhedral pyrite always associated with chlorite, trace cpy -NOTE: looks like rocks at McKenzie-Grey Property	18682 18683	1.0 2.5		235.0 237.5	ŀ	NIL		
		228.7-228.8 ½" white qtz stringer (50°), 5% pyrite, trace cpy 230.8-231.2 ½" white grainy qtz vein (30-40°) with minor carbonate, in between veins, unit is chlorite rich and with 10% pyrite 231.8-232.0 ½" white qtz stringer (40°), with 5% pyrite and increase in pyrite surrounding wallrock 234.2-234.8 Diorite Dyke with Phenocrysts -a 5" red dyke, well altered and completely red due to hematite staining -looks like same unit as 181.8-184.2' due to blue qtz or cordierite grains present; both contacts sharp at 40°; 2% pyrite as medium grain euhedrals								
237.5	244.5	STRONGLY SILICIFIED, STRONGLY SHEARED AND HEMATIZED TONALITE -similar to 218.2-237.5' but strongly silicified, unit is lighter (pink rather than red) -still highly chloritized but mafic grains now make up a much smaller portion of rock -moderate sericitization increases to next unit -1% pyrite as coarse grain in groups associated with chlorite	18684 18685	4.0 3.0		241.5 244.5	•	WIL		
244.5	246.8	INTENSELY SERICITIZED, STRONGLY SHEARED TONALITE -similar to 237.5-244.5' but intensely sericitized -graudally gets more sericitized and less silicified from upper unit, upper boundary is gradual and was picked where sericitization becomes intense, foliation (40°) -hematite staining lessen to moderate and decreases from moderate towards end of zone -4½ pyrite associated with chlorite							ļ	

.

***	7 14	DESCRIPTION	sample	width	from	to		AS	SSAYS	
DEP from	to	NOTE: All angles are measured with respect to the long core axis.	number	MIGEN	11.00	"	Au oz/t	48 02/E		
		244.5-246.8 INTENSELY SERICITIZED, STRONGLY SHEARED TONALITE (con't)				 				-1
		245.7 a 'n' chlorite/qtz stringer (60°) 245.9-246.1 a 2" carbonate/tourmaline/chlorite/qtz vein, carbonate well hematite stained, core is broken throughout and difficult to see contacts, tourmaline and chlorita in bands (60°), minor pyrite (1%)	18686	2.3	244.5	246.8	Tr	NII.		
246.8 -	248.9	INTENSELY SILICIFIED TOWALITE/QUARTZ VEIN -strongly bematite stained qtz with some remnant tonalite texture and occasionaly less than 1° sericitized tonalite inclusion -well fractured towards end of zone with occasional carbonate stringer -occasional chlorite rich patch -with 2Z pyrite, 2Z cpy, 1Z hematite/bismuthmite, all are fine grain to medium grain and usually associated with chlorite	18687	2.2	246.8	249.0	Tr	HIL.		
248.9	251.4	STRONGLY SILICIFIED, STRONGLY SERICITIZED, STRONGLY SHEARED TONALITE -light green tonalite, strongly sericitized, well silicified with abundant qtz eyes and pods of qtz (up to 2") -only weakly to moderately hematite staining but small sections are bleached lighter (green) -well fractured often infilled by carbonate -2% pyrite over zone as medium grain eubsdral cubes	18688	2.4	249.0	251.4	Tr	NIL.		
		249.9-250.2 a lime breccia qtz vein, breccia (ie. well fractured and fractured filled with opaque qtz and carbonate); 15% pyrite, trace cpy								.
251.4	255.9	STRONGLY SILICIFIED, STRONGLY HEMATIZED, STRONGLY SHEARED TOWALITE -similar to 248.9-251.7' but highly hematitic stained and with high percentage of sulphides	18689	1.5	251.4	, 252.9	Tr	NII.		
		-10% cpy, 10% pyrite, 1% bismuthmite? mostly in fractures or stringers following	18690	1.0		253.9	1	NIL.		ł
		foliation at 40°; most of sulphides from 251.4-253.9°	18691	2.1		256.0	Tr	MIL		- 1
255.9	289.9	STRUNCLY HEMATIZED AND SHEARED TONALITE	18692	5.0		261.0	12	MIL		
1		-same as 218.2-237.5° except with only 1% pyrite found locally (is. not disseminated throughout)	18693	5.0		266.0	IL	HIL	ı	ł
		-unit is more varied with respect to sericitization, silicification and staining	18694	5.0		271.0	Tr	MIL		
		as described below	18695	5.0	271.0	276.0	Tr	NII.		

	DESCRIPTION	sample		£			A:	SSAYS	
from to	NOTE: All angles are measured with respect to the long core axis.	number	width	from	to	Au . oz/t	Ag vz/t		
	255.9-289.9 STRONGLY HEMATIZED AND SHEARED TONALITE (con't)								
	255.6-257.4 strongly sericitized, non-hematite stained zone, blue-green colour with four 1/8" wispy carbonate stringer (all at 70°)	18696	5.0	276.0	281.0	Tr	MIL		
	257.4-258.2 strongly silicified zone, moderate-sericitization, moderate chlorit- ization, high percentage of mafics; no hematite staining	18697	5.0	281.0	286.0	Tr	MIL		
	264.3-265.7 zone of strong sericitization, moderate to strong chloritization 271.4-275.6 bleached zone, light beige green, no hematite staining, otherwise the same 275.3-275.6 irregular carb/qtz pods make up most of this zone	18698	2.5	286.0	288.5	Tr	HII.		
	279.3-281.7 strong sericitized zone, only weakly hematite, stained 279.6-279.8 '4" carb/chlorite/qtz stringer (40°) (semi-irregular) 280.8-281.7 with many 1" pods (boudinaged stringer?) of carb/qtz			• •					
	285.2-287.6 zone is strong sericitized and contains many pods and stringers of qtz (2") with some carbonate (ie. 15 large pods over zone) 285.4-285.5 'g' qtz stringer (50°) with increase in pyrite content in lower wallrock 287.4-287.5 lg' tourmaline/chlorite/carbonate/qtz vein, semi-irregular (70°), trace pyrite, trace cpy, core is broke up around zone								
	287.8-288.1 pink-red hematite stained qtz, semi-irregular (approx 70°), with tourmaline filling fractures, trace pyrite								
289.9 294.2	STRONGLY SERICITIZED, CHLORITIZED AND SHEARED TOWALITE -blue grey green tonalite, most of rock made up of sericite and chlorite, distinc qtz eyes gone -many carbonate/qtz blebs (<1"), many fractures filled with carbonate or chlorite carbonate pods -foliation at 45°, only weak hematite staining -1% medium grain pyrite in chlorite filling fractures, found locally	18699	5:0	288.5	293.5	Tr	WIL		
	290.2-290.3 red (hematite stained) irregular qtz stringer/silicified tonalite of 4" to 1" (60°), 15% medium grain pyrite found as a band 293.9-294.1 1" pinky-white waxy qtz vein (65°) with carbonate and chlorite, slight increase in pyrite on lower wallrock		·						

小京河 西鄉鄉

		DESCRIPTION	sample	width	from	to	l .	A:	SSAYS		
DEP from	to	NOTE: All angles are measured with respect to the long core axis.	number	Widen	17011		Au oz/t	Ag DZ/t			
294.2	 	MUDERATELY SHEARED TONALITE			 		-	-			
274.2	365.5	-similar to 28.1-36.3 except zone has stronger silicification and is slightly	18700	5.0	293.5	298.5	Tr	NIL.			l
	ŀ	more sheared		1							1
		-at least weak hematite staining present through zone and often is strong for	18701	5.0	298.5	303.5	Tr	MIT			l
	l	some sections -pyrite content is less than 28.1-36.3' with only 1% pyrite and that usually	18702	5.0	303.5	308.5	Tr	MIL			l
	1	found locally, trace cpy	16/02	3.0	303.5	306.5	112		1		
	1	-unit is varied with respect to intensity of shearing, silicification, sericiti-	18703	5.0	308.5	313.5	Tr	MIL.			
	}	zation, chloritization and hematization as described below, whole zone is well	1				1				ı
	ł	fractured, with pods of carbonate/qtz	18704	5.0	313.5	318.5	II	MIL			l
-		294.2-301.0 moderate to strongly sheared, moderate to strongly altered by hema-	18705	5.0	318.5	323.5	TE	MIL			
	1	tization, sericitization, chloritization and strongly silicified,	10/05	3.0	310.3	323.5	112	***	1		ı
	i	occasional irregular carbonate/chlorite/qtz stringer and pods	18706	5.0	323.5	328.5	TX	nn.			ı
	1	298.9-299.6 very strongly silicified zone with two km carbonate stringer both at 70° with chlorite and tournaline and	1				1				ı
	ļ	fine grain to coarse grain pyrite, 5% over total zone	18707	5.0	328.5	333.5	Tr	MIL			ı
	i	301.0-303.2 with moderate hematite staining, well fractured filled with qtz	18708	5.0	222 6	338.5	TE	MIL			ı
	l	and carbonate, light		3.0	333.3	330.5	14	[l
	i	303.2-307.3 green grey, strongly sheared, strongly chloritized, strongly serici		5.0	338.5	343.5	TE	MIL			ı
	1	tized; at 307.2° ½" qtz stringer (80°), with 5% coarse grain pyrite 308.8-310.0 two irregular qtz stringer, from less them 1/8" to 1" wide faulted									i
		into smaller stringer by fault (40°)	18710	5.0	343.5	348.5	Tr	MIL			ı
	ł	311.5-312.2 at 312.1-312.2' two 1" qtz/chlorite/carbonate vain is cut off by a	18711	5.0	~~ •			MIL.			l
-	l	fracture (10°) and infills that throughout zone	10/11	3.0	348.3	353.5	Tr	- ALL			l
	l	312.9.314.1 two 12" irregular qtz/chlorite/carbonate stringer at low angle	18712	5.0	353.5	358.5	125	MIL.			ĺ
	i .	316.3-316.4 a km carbonate stringer (40°) with minor chlorite 317.8-318.1 km carbonate stringer (20°)	1			•					ı
	•	318.4 a k" pink qtz stringer (65) with carbonate and 5% medium grain py	18713	5.0	358.5	363.5	IX	MIL			ĺ
		320.8-320.9 two 1 irregular carb stringer cut by fault (350) with 1 of dis-	18714	2.0	262 6		TX				ĺ
	L	placement	16/14	2.0	303.5	365.5	11	MIL			ı
		321.7 two 4" chlorite/carb/qtz stringer (60°) with increase in pyrite in			٠.] .	•				
	T in	wallrock on either side 322.0-327.8 strongly sheared and sericitized, moderate to strong chloritization				l	1	1 1			l
•	1	only occasional weak hematite staining	` [.			f .		{			i
	I	322.2-322.3 '4" semi-irregular pink chl/carb/qtz stringer (60°).						1 1	I	٠ ا	ı
	1 .	12 pyrite									
	ŧ .	323.2 km chlorite/carbonate stringer (650)						Į į		ł	
		323.9 La chi/carh/pink are etripper (65°) 302 mater				L		I			

		DESCRIPTION	sample	width	from	to		A:	SSAYS		
DEF from	to	NOTE: All angles are measured with respect to the long core axis	. number	Widen	17 (18)	"	Au oz/t	Ag uz/t			
Trom	to	294.2-365.5 MODERATELY SHEARED TONALITE (con't)	+			 	 			 	_
]	234.2-303.3 ROBERTIEST SIERRED TOWNETTE (COR C)	1			1	Ī			1	ĺ
	ĺ	322.0-327.8 con't 324.3-324.5 fracture (40°) semi-filled with coarse grain pyrite,				1					ļ
		10% pyrite				ŀ					1
	Ì	327.7 fracture (65°) filled with medium grain pyrite								i 1	i
	İ	329.0-332.3 intensely chloritized, strongly sheared, strongly sericitized	1	l							1
* T	Į	332.3-340.0 zone is moderately hematite stained 333.3-333.4 1" chlorite/sericite vein (40°), 5% fine grain pyrite	l.	<u>I</u>	•	l	i i			/ I	ĺ
		336.9-337.5 intensely chloritized zone, both contacts sharp (40°)	ł	ł		ļ					l
	İ	slight increase in pyrite content	` !	1		Ì				i 1	İ
	ı	341.7-342.0 two 'y" chlorite/carbonate/qtz stringer (50°)	ł	1		1				1 1	i
		342.2-342.4 k" carbonate/qtz stringer (50°)	ı	1		1	1			1 I	l
1	Í	342.6-342.9 ½" chlorite/carbonate/qtz stringer (40°)	Į.			ŀ	•			1 1	ı
		343.5-343.6 ½" chlorite/qtz/carbonate stringer (70°), increase in py in footwa near vein	11								
	1	335.4-335.9 with moderate hematite staining	1	1		l	i	[i I	Á
•	l	336.3-336.6 with moderate hematite staining				l	1		l I	1 1	İ
	į	338.5-338.6 ½" semi-regular qtz stringer (50°) faulted (40°) with displacement of ½"					1			1 1	İ
i i	l	344.2-348.5 weakly sheared, with carbonate, 10% pyrite, trace tourmaline	1	1		į	1	1 1		i I	ı
	!	349.1-349.4 zone is strongly chloritized	l	Į.		1	1			i 1	İ
	1	349.4-352.9 zone is moderate to strongly hematite stained, at 352.2' ¼" pink chlorite/qtz stringer (80°), 10% pyrite	1								ĺ
	l	352.9-353.4 zone is moderate to strongly chloritized	1			1	1	1	ŀ	1 1	l
	i	353.7 ½" chlorite/pink qtz stringer (80°) from 353.7-354.5' 5% pyrite	į			l ·	1			1 1	ĺ
*	l	355.7-365.5 moderate to strongly sheared, strongly sericitized; unit graduall			-	1	i			i I	ĺ
-	i	becomes more strongly sheared and more sericitized, moderate hems- tite staining throughout: increase in pyrite to 3% medium to communications.				l	1		1	i I	i
•		grain associated with chlorite or in fractures as stringers	7	1		ł	1	1		i 1	i
1		360.7-361.0 1/2" qtz/chl/carb stringer (40°)	1	1	.		1			i 1	l
,		363.9-364.3 1" qtz/chl/ser/carb vein (35°) with 5% fine grain py		1			l			1	
365.5	435.2	STRONGLY ALTERED, STRONGLY SHEARED TONALITE					1				
	}	-this section is very varied as to type of alteration and degree of shearing	I			l	1			i i	ĺ
•		with short sections being weakly to moderately sheared only, generally moderat sericite, silica	•						,		
•	1	-most of section is well fractured with common stringer and pods of carbonate		}						1	ĺ
	Į.		1	1		1	i				į

	··	DESCRIPTION	sample	width	from	to		A	SSAYS		
DEP from	to	MOTE: All angles are measured with respect to the long core axis	. number				Au OZ/t	Ag os/t			
		365.5-435.2 STRONGLY ALTERED, STRONGLY SHEARED TONALITE (con't)									
		-pyrite is less than 1% overall for section with local pyrite-rich zones especia	.1.				1		l 1		, i
		the more weakly sheared zones	18715	4.0	3 65.5	3 69.5	Tr	MIL		. [. 1
		365.5-369.7 strongly silicified, strongly hematized, 5% pyrite, core is broken and ground approx 2° of core missing	18716	1.2	369.5	370.7	Tr	MIL			
:		369.7-370.5 quartz vein/intensely silicified tonalite; banded with sericite as fine to medium grain pyrite bands (40°); 10% pyrite over zone, contacts at 40°	18/1/	2.0		372.7	Tr	MIL			
	İ	370.6-384.1 strongly sericitized, often strongly silicified, strongly sheared,	18718	2.0	372.7	374.7	Tr	HIL	1 1		į
•		no bematite staining, with abundant large (k^{H}) qtz eyes, trace py foliation (40°) , trace cpy; occasional k^{H} qtz stringers (40°) ,	18719	5.0	374.7	379.7	Tr	MIL			! !
·	l	occasional bleached to light green 373.2-373.8 quartz vein/intensely silicified tonalite; both con-	18720	2.0	379.7	381.7	Στ	NIL			
		tacts at 60°; with carbonate chlorite 374.5-374.8 strongly silicified	18721	2.0	381.7	383.7	TE	NIL.]	
		380.2-380.5 3" sericite vein (50°), minor chlorite, qtz, carbonate 380.5-381.2 intensely silicified zone, light green	10/22	5.0	383.7	388.7	Ττ	MIL			
	ŧ.	381.2-382.1 quartz vein/intensely silicified zone; white and light green; 2% pyrite in fractures	18723	3.0	388.7	391.7	Tr	MIL			
		382.1-384.1 strongly to intensely silicified zone; medium green 384.1-390.8 moderately sheared, non-hematite stained, moderate alteration, 12	18724	3.0	391.7	394.7	Tr	MIL.			,
		pyrite associated with chlorite 390.8-394.9 strongly sericitized (decreases towards end), strongly silicified	18725	5.0	394.7	399.7	Tr	MIL.			1
		(increases); moderate to strong benefite staining 392.0-392.7 qts/sericite vein (30°) approx 6" but broken and miss	18726	5.0	399.7	404.7	Tr	MIL		į	,
- -		core; minor tournaline and chlorite 392.7-393.0 intensely silicified	18727	5.0	404.7	409.7	Tr	MIL		ŀ	•
		393.9-394.2 strongly silicified pink qtz, trace pyrite 394.9-403.1 moderate sheared, strongly hematite staining, often strongly seric		5.0	409.7	414.7	Tr	MIL	l		
		tized; with abundant carbonate pods and stringers and filling frac- tures often with chlorite surrounding them; 1% medium grain pyrite	18729	5.0	414.7	419.7	Tr	MIL.		l	
	7	found in carbonate stringers or associated with chlorite 403.1-408.2 same as 394.9-402.1 but no hematite staining	18730	5.0	419.7	424.7	Tr	MIL		- 1	i,
		408.2-415.8 strongly sheared, strongly silicified, strongly sericitized, strong chloritic, 1% medium grain euhedral pyrite often with chlorite	18731	5.0	424.7	429.7	Tr	MIL]	1
		411.6-412.5 ½ chl/qtz stringer, semi-irregular (0-5°), faulted 49 off on lower end; with clorite and sericite	18732	5.0	429.7	434.7	Tr	MIL			

		DESCRIPTION	sample	width	from	to		. A	SSAYS	
from	to	NOTE: All angles are measured with respect to the long core axis.	number	WIGEN	11-040	W	Au oz/t	Ag oz/t		Γ
		365.5-435.2 STRONGLY ALTERED, STRONGLY SHEARED TONALITE (con't) 415.8-417.6 weakly to moderately sheared, no hematite staining, strongly silicified, 1% medium grain pyrite as euhedral cubes 416.1-416.2 ½" qtz/chlorite stringer (60°) 417.6-420.1 strongly silicified, strongly sheared, strongly sericitized, tr. py 420.1-435.2 intensely silicified, strongly sericitized when silicification permits; light green and cream mottled core or white (similar to qtz vein) with occasional chlorite grains; occasional carbonate pods or stringers 425.1-425.3 ½" chlorite/carbonate/sericite/qtz stringer (40°) 427.2-429.5 slightly less silicified (strongly)	18733	1.0	434.7	435.7	Tr	WIL	•	
435.2	450.0	431.1-433.6 slightly less silicified (strongly) 434.9-435.2 2½" chlorite/carbonate/qtz vein (50°) with inclusions of mafic volcanic MAFIC VOLCANIC -dark green, fine grain, occasional medium grain mafic with sections that have been intensely silicified -occasional fractures filled with carbonate, silicified section is well fractured and increase in fractures at bottom of zone -upper contact is qtz vein (50°), lower contact sharp (25°); trace pyrite	18734 18735 18736	5.0 5.0 4.0	435.7 440.7 445.7	445.7	îr Tr	NIL NIL		
		435.5-438.6 intensely silicified zone, well fractured (40-50°); brecciated 438.0-438.4 four 1" tourmaline/chlorite/carbonate/qtz vein (20°) with trace pyrite 440.8-441.7 intensely silicified zone, well fractured (40-50°) 443.6-444.0 intensely silicified zone, well fractured	·							
450.0	478.2	MODERATE TO STRONGLY SHEARED TOWALITE -foliation (40°), green-grey, many fractures often filled with carbonate, with carbonate stringers and pods -moderate alteration, with moderate sericitization, silicification and chlor'tion -1% fine grain to medium grain pyrite associated with chlorite, trace cpy -at 459.0° ground core	18737 18738 18739 18740 18741 18742	5.0 5.0 5.0 2.5 3.5 5.0	454.7 459.7 464.7 467.2	454.7 459.7 464.7 467.2 470.7 475.7	Te Te Te Te Te	MIL MIL MIL MIL MIL		

动物地图: 图像中报。

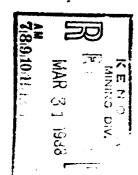
· Mar parter pries.

13

		DESCRIPTION	sample	width	from	to		AS	SYAZZ	
DEP from	TH to	NOTE: All angles are measured with respect to the long core axis.	number	WIGCH	Trom		Au oz/t	Ag oz/t		
		450.0-478.2 MUDERATE TO STRONGLY SHEARED TONALITE (con t)								
		459.0-478.2 strongly sericitized 467.3-467.5 1/8" cpy/chlorite stringer (40°) 466.5-467.7 pyrite rich zone, 5% medium grain euhedral cubes 467.7-470.6 intensely silicified zone/qtz vein; zone begins with 5" tourmaline/chlorite/carbonate/qtz/sericite vein (40°) rest of zone is white-grey qtz with chlorite and carb. with 10% pyrite as coarse grain cubes or a finely disseminated in banded; with 2% cpy 472.8-473.0 2" chlorite/pyrite/carbonate/qtz vein (40°) with 10% coarse grain pyrite mostly on edges of vein with chl.								
478.2	520.5	BRECCIATED, HODERATE TO STRONGLY SHEARED TONALITE -strongly to intensely silicified, strongly sericitized, often strongly chlori- tized; well fractured to brecciated with carbonate filling spaces in fractures or between tonalite pieces, many large (2") pods of carbonate, abundant chlorite with fractures and pods usually outlining on edges, with some qtz in fractures	18743 18744 18745	5.0 4.5 2.0	481.7	481.7 486.2	l	MIT'		
		-medium grain to coarse grain pyrite common locally; 2% over total section 478.2-478.5 intensely silicified with chl/carb/qtz filling fracture (10°) with	18746	2.0 5.7	486.2 488.2	488.2 493.8	Tr	MIL.		
		10% medium grain pyrite 482.0-482.1 1" carb/qtz (60°) 482.4-482.8 4" white qtz vein (50°) with carbonate, minor chlorite, 2% cpy, with		5.0		498.8		MIL		
		tonalite inclusions 484.7-485.0 1" to 2" irregular qtz stringers or pods, abundant chlorite and	18748	5.0	498.8	503.8	Tr	HIL		
		carbonate, minor tournaline 486.1-486.4 1 qtz stringer (50) with carbonate, minor chlorite	18749	5.0	503.8	508.8	122	MIL		
- 2.7		486.5-488.0 intensely silicified/qtz vein; white waxy qtz with major carbonate, chlorite, minor tournaline; 3% medium grain pyrite associated with	18750	5.0	508.8	513.8	TT.	MIT		
	2	chlorite 488.2-492.7 very strongly sericitized zone -at 491.0' 'k'' qtz stringer (60°), some carbonate, minor chlorite	18751	5.0	513.8	518.8	Tx	MIL		
	•	on edges, trace pyrite -at 493.7° 1° semi-irregular chl/qtz/carb stringer with increased pyrite in wallrock on either side	. •			·				

	_	DESCRIPTION	sample	width	from	to		A:	SSAYS	
DEPTH from	to	NOTE: All angles are measured with respect to the long core axis.	number	wiacu	11-000		Au oz/t	Ag oz/t		
		478.2-520.5 BRECCIATED, MODERATE TO STRONGLY SHEARED TONALITE (con't) 494.8-498.8 intensely silicified, very strongly sericitized; cream mottled light green looking qtz with abundant chlorite and carbonate; 3% pyrite over zone associated with sericite or chlorite								
		501.0-501.3 1/8" carb/chl/tourmaline stringer (25°) 503.6-505.8 moderately sheared, weakly to moderately hematite staining 505.8-510.3 moderate to strongly sheared, moderate hematite staining 510.3-510.4 '4" carbonate stringer (45°) with abundant chlorite on edges 510.8-511.4 very strongly silicified 512.1 '4" semi-regular qtz stringer (approx 65°) with 30% pyrite coarse gra 512.1-513.8 moderately sheared, very strongly silicified, with 1% pyrite 515.2-519.7 moderately sheared, with eight '4" carbonate stringer (approx 40°) chlorite on edges, minor pyrite	n							
20.5	535.3	WEAKLY SHEARED TONALITE -similar to 69.0-75.6' -with occasional hematite staining			,					
35.3	545.6	532.0-532.2 ½" tourmaline/qtz/chlorite stringer (45°) BRECCIATED WELL FRACTURED MODERATELY SHEARED TONALITE -same as 515.2-519.7' except weakly hematite stained -many pods and fractures filled with carbonate, well fractured to brecciated -strongly silicified, strongly chloritized	18752 18753	5.0 5.3		540.3 545.6	Tr Tr	WIL.		
45.6	578.5	WEAKLY SHEARED TORALITE -same as 520.5-535.3', occasionally weak to massive	18754	2.0	549.3	551.3	Tr	WIL		
	·	540.5-550.7 mmfic volcanic; dark green, fine grain; semi-regular contacts, upper (30°), lower (30°); well fractured; trace pyrite 550.7-551.2 2" strip (30°) of weakly sheared tonalite has been strongly sili'fie 561.6-561.9 ½" white qtz stringer (25°), some carbonate 565.1-565.4 1/8" white qtz stringer (approx 5°) 568.7-575.1 same as 535.3-545.6' 576.4-576.8 2" chlorite vein (40°) used to be a diorite or mafic rock? (a few more chlorite patches in surrounding rock)	18755	5.4	569.7	575.1	Tr	MIL		

The same with the reaction of the same with



OROFINO RESOURCES LIMITED

Hole No. 438-87-1

Page 19 of 20

		DESCRIPTION	sample	width	from	to		A:	SSAYS	
DEP from	to	NOTE: All angles are measured with respect to the long core axis.	number	Width	Trou	100	Au Oz/t	Ag oz/t		
578.5		STRONGLY TO MODERATELY SHEARED TONALITE -dark green grey, medium grain tonalite, finer than normal -very mafic phase of intrusion, strongly chloritized -foliation at 40°, occasional carbonate filled fracture (less than 1/8") -trace medium grain pyrite	18756	5.0	578.5	583.5	Tr	MIL		
585.2 -	599.6	MODERATELY SHEARED TONALITE -same as 535.3-545.6 (and 569.7-575.1') but richer in pyrite, 3% pyrite found locally, 1% cpy -at 591.3' ½" stringer of pyrite (70°) 594.2-595.0 10% pyrite, 2% cpy filling fractures, fine grain to coarse grain 596.1-596.6 10% pyrite filling fractures, mostly coarse grain	18757 18758 18759 18760	5.0 5.0 5.0 5.0	588.5 593.5	588.5 593.5 598.5 603.5	Ir Ir Ir Ir	MIL MIL MIL	-	
599.6	606.2	STRONGLY SHEARED TOWALITE -strongly sheared tonalite, a very mafic phase similar to 578.5-585.2' but more strongly sheared -dark green grey, medium grain (finer than normal) -strongly sericitized and chloritized -gradual boundary with above unit -trace pyrite								
606.2	650.0	VERY STRONGLY SHEARED TOMALITE -dark green grey, strongly foliated (60°), strongly chloritized, strongly sericitized, often strongly silicified -abundant carbonate pods and stringers and veins (½") and many irregular qtz pods, occasional fractures -graudal boundary with above unit	18761 18762 18763	4.0 3.2 5.5	607.5	607.5 610.7 616.2	Tr Tr	NIL NIL 0.90		
		-5Z pyrite, 2Z cpy over zone found locally 607.7-607.9 2" qtz vein/silicified tonalite (70°) with ½" band of tourmaline, abundant carbonate, 15Z medium grain ewhedral pyrite, 3Z cpy 607.9-610.6 strongly to intensely silicified, chlorite rich; with 10Z pyrite	18764 18765	2.5 4.5		618.7 623.2	Tr Tr	MIL.		
		medium grain to coarse grain euhedrals; with 15% pyrite often associated with chlorite oli.7-612.2 15% cpy, 5% medium grain euhedral pyrite trongly to intensely silicified, chlorite and sericite rich; with 15% medium to coarse grain euhedral pyrite; with 10% cpy	18766 18767	6.0 5.0		628.2 633.2	Tr Tr	MIL		
						•				

No Proper	DESCRIPTION	sample	width	from	to		A	SSAYS	
DEPTH to	NOTE: All angles are measured with respect to the long core axis.	number	4.66.			Au oz/t	Ag oz/t		
	606.2-650.0 VERY STRONGLY SHEARED TONALITE (con't)								
	619.0-623.2 intensely sericitized, strongly silicified zone; with many large pods (irregular veins) of white qtz; with 10% medium to coarse	18768	4.5	633.2	637.7	Tr	HII.		
4	grain pyrite associated with chlorite 624.8-625.2 sericite rich with 5% medium grain euhedral pyrite	18769	5.0	637.7	642.7	Tr	WIL.		
-	629.5-629.6 14" light green DYKE that has been strongly sheared; with large	18770	2.0	642.7	644.7	Tr	MIL		i I
	chlorite grains, chlorite/lamprophyre?, both contacts sharp at 70° 631.3-631.5 km to 1" semi-regular qtz vein (50°), 30% coarse grain pyrite 635.2-635.3 km carbonate/qtz stringer (60°)	18771	1.5	644.7	646.2	Ťr	MIL		
650.	635.2-635.3 % carbonate/qtz stringer (60°) 636.3-637.2 strongly sericitized zone with finely disseminated, wispy bands of pyrite; also coarse grain pyrite, 10% total pyrite over zone 636.5-636.8 % to 1" fractured, cherty looking semi-irregular qtz stringer (40°); 637.0-637.1 % qtz stringer (40°) 638.0-638.3 diorite dyke/lamprophyre, strongly sheared (40°) 638.5-638.6 1" semi-regular qtz/carbonate vein (60°) 638.6-638.7 % semi-regular carb/qtz stringer (60°) 643.2 % to % semi-regular white-rusty qtz stringer (60°) 643.4-643.6 % carbonate/qtz stringer (60°) 645.0-646.0 strongly to intensely silicified, chlorite rich; 5% medium grain to coarse grain pyrite euhedrals	18772	3.8	646.2	650.0	Î	HIL.		

The state of the s

ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES
OFFICE

MAY 1 9 1988

RECEIVED

OROFINO

ASSAY SUMMARIES

RESOU	RCES LIM	ITED	·						<u> </u>		· . 		Re-Assayed		<u>.</u>				
DEILL HOLE	F001	AGE	Sample		SAY			- VAL	UE	REI	PERE	N C E:	Saiple		ASSA	(ED I	K:	VAI	LUE
NUMER	from	to	NUMBER	. Jan	SW	22	THR	Au oz/t	Ag oz/t	Drill Los	Sample Book	Absey Result	NURBER	184	SU	12	THE	Au os/t	Ag oz/
438-37-1	7.4	8.4	18622	1		1		Trace	Nil			٠		ſ	1		ĺ		1
430-0/-1	28.1	32.2	18623		ł	1		Trace	Nil	X X						ı	ł	1	
	43.6	44.6	18625	1	ł	ı		Trace	Nil	Î				1	1	ı	l	1	
	45.4	51.1	18626	ł	I	1		Trace	Nil	Î				i	1	l	1		l
	51.1	53.3	18627	ł		1		TRace	Nil	Î				1	1	· ·	1	i	i
	53.3	56.9	18628	i	ł			Trace	Nil	x.	•	1		ı	1	1	1	I	1
	56.9	60.9	18629	1	j	1	•	Trace	Nil	Ī	I	ŀ	li .	1	1	1	1 -	l	
	60.9	65.0	18630	1	1	1		Trace	N11	Ī		1		1		1		l	ł
	65.0	69.0	18631	1	I	ı	ł	Trace	Nil	x				1		1	1	1	
	75.6	81.8	18632	- 1			Ĭ	Trace	Nil	x			l	1		1	1	I.	
	81.8	87.2	18633	1	1		1	Trace	NII	X		ł	ll .		1	ı	1		ľ
	103.7	108.0	18634	•	1	1	1	Trace	NIL	x		i	1	1	1	l l	1	I	į.
	108.0	109.0	18635	-	1	1	ł	Trace	N11	x	ı	ł			1	1	ı	l	ł
	109.0	111.3	18636	1	1	1	į	Trace	Nil	x	ł			ı	1	i	ı	ı	ı
	114.2	120.7	18637	ı	1	1	1	Trace	Nil	x	1.		3	1	1	1	1	1	1
	128.3	133.3	18638	- 1	1	ı	1	Trace	Nil	x	1			1	1	1	i	1	1
-	133.3	138.3	18639	- 1	ı	1	1	Trace	Nil	x	F	ł			1	1	1	l l	ł
	138.3	143.4	18640	- 1	1'	1	l	Trace	Nil	X	į.			1	1	1	1		1
	143.4	144.4	18641	- 1	1	1	1	Trace	Nil	x	1			1	1	1		1	
	144.4	149.4	18642	1	1	1		Trace	Nil	X	ŀ	1		1	- 1	1	1	1	1
	149.4	154.9	18643	-	t	1		Trace	nil	X	1	i		1	1	ı	1	l	ı
	154.9	160.9	18644	ı	1	1	1	Trace	Nil	x	1			ı	ł	1	Ì	I.	
	160.9	162.3	18645	ı		1	1	Trace	Mil	X		1	•	1	1	1		¥ - ~	<i>Y</i>
	162.3	164.4	18646	ı	1	1	1	Trace	Nil	. X	1		·	1		1 .	ע ג	Tar.	1
	164.4	169.0	18647	I			1	Trace	Mil	X	1	1		A	.	17	17	1	1
	169.0	173.0	18648	I	1	1	1	Trace	Mil	X			11	Л	۱.,	】 【	1'	I	1
	173.0	175.5	18649	- 1			1	Trace	N11	X			\/		NO		1	1	
	175.5	177.1	18650					Trace	M11	x			ll 1/2	/{~	1	1	- 1		į.
	177.1	178.1	18651	- 1	1	1	1	Trace	Nil	x	t]	11 11		ı	1	Ŧ	lan	I
	178.1	180.3	18652	1		ł	1	Trace	Nil	X	1	1		Ì	1	1	1	I	1
	180.3	191.8	18653	ŀ	1	1	1	Trace	Nil	X		1	11		4	1	1	I	I
	181.8	184.2	18654	ļ		1	1	Trace	N11	X	1	1	11	1	ı		1.	1 .	1
	184.2	187.2	18655	1	ı	•	1	Trace	N11	X			11	I	1	1	1		1
	187.2	190.8	18656			i	1	Trace	N11	X	· 1		11				1	Į	
	190.8	193.1	18657			ı	1	Trace	N11	X					-		1	1	1
	193.1	194.1	18658	I		1	1	Trace	N11	X		1	II .	1	- 1	I	1	I	1
	194.1	195.8	18659	I	1	ı	1	Trace	N11	X	1	1		1			1		
	195.8	196.8	18660	1		1.		Trace	M11	X		1	11		1	1	1	1	

IIT HOFE	F001	TAGE	SAMPLE			D H		VAL	UE	REI	ERBI	C E:	SAMPLE	I	assa	PED 1	ľ:	VAI	LTE
NUNER	from	to	NUMBER	·	sw	W.	THR	Au oz/t	Ag oz/t	Drill Log	Sample Book	Abesy Result	NUMER	34	SW	双	THE	Au oz/t	Ag 02/
438-87-1						Π											1		
	196.8	198.8	18661	ı	1	1 1		Trace	Nil	х					l	1	ì		
	198.8	200.3	18662	1	ł	1 1		Trace	Nil	1				1	ł	1	1	1	ł
	200.3	201.8	18663	1	1	1 1		Trace	Nil	1			l i	1	ı	ţ	ı	1	1
•	201.8	203.5	18664	1	1	1 1		Trace	N11	i	1			ŀ	į	ł		i	1
	203.5	204.6	18665	1		1 1		Trace	N11	l l			<u> </u>	1	1		1	1	1 .
	204.6	205.6	18666	1	1	1 1		Trace	N11	.	1		il.	1	l	ł	1	i .	l
	205.6	206.6	18667	I	1	1 1		Trace	N11	1	1 1		l	ł	1	1	1	1	1
1	206.6	207.6	18668	1	1	1 1		Trace	NII		1		l	. 1	1	i i	1	ł	1
1	207.6	209.6	18669	- 1		1 1	.	Trace	Nil					.		1		I.	i
	209.6	210.6	18670		1	1 1		Trace	N11	ı				•	l	1	1	•	1
	210.6	211.6	18671		1	1 1		Trace	Nil	ł	1 .		H	ł	i	1	1	I	1
	211.6	212.6	18672	i	1	1 1		Trace	Nil	1	1			ł	1	1	1	ł	Į.
;	212.6	213.6	18673	i	1	1 1		Trace	Nil				l)	ı	1	ł	1	i .	1
•	213.6	214.6	18674		1	1 1		Trace	N11		1					1	1	1	1
	214.6	215.6	18675	1		1 1		Trace	N11	1			ł		1	I	1	1	1
	215.6	216.8	18676	1	1	1 1		Trace	`N11	L	1		Ħ		į.	1		I	i
. •	216.8	218.2	18677	ı	1	1 1		Trace	N11	ł		1		- 1	1	ł		1	1
	218.2	220.2	18678	1	1 '	1 1		Trace	Nil	1	1	i		1	·	1	1	I	I
	220.2	225.2	18679	- 1	1	1 1		Trace	N11	1				- 1	1	1	1	1	1
	225.2	230.2	18680	1	1	1 1		Trace	N'1		i			- I	ı	ı	ŧ		ł
	230.2	234.0	18681		ı	1 1		Trace	nil	1	1 .	Ł	} }	1	ı	1	1	1	1
	234.0	235.0	18682		1	1 1	l	Trace	Nil		Į.	1]] ·	•	1	1	1	1	1
•	235.0	237.5	18683	ı	1	1 1		Trace	Ni	1	ł	1		1	1	1	1	ł	ł
i	237.5	241.5	18685	1	1			Trace	N11	•	ł	I	H	1	1		1	1	1
·	244.5	246.8	18686	- 1	1	1 1		Trace	N11	Į	1	1	11	- 1	1	1	ı	1	1 .
	246.8	249.0	18687	- 1	1			Trace	Nil	1			11	ł	1		ı		
: •	249.0	251.4	18688		1	1 1		Trace	N11	ł	ł	1	11	•		1	1	I	1
	251.4	252.9	18689		1	1 1		Trace	Nil	l l	t	1	[]	1		ł	•	1	1
	252.9	253.9	18690	ı				Trace	N11	1	ŀ	1	11	- 1	1	i	1	1	1
	253.9	256.0	18691	1		1	l	Trace	Nil		1	1	11		1	ı	1	1	1
	256.0	261.0	18692	•	1	1 1		Trace	Nil	1	ı	1	l i			1	•	1	
	261.0	266.0	18693	l				Trace	N11			1	H	- 1	1	1		1	1
	266.0	271.0	18694	1	1	1 1	Ī	Trace	N11	1	1	1	11	- 1			ı	1 .	1
	271.0	276.0	18695	1	ł			Trace	Nil		1	1	II	1		ł	1	•	1
	276.0	281.0	18696	- 1	į			Trace	NII	ı		l .	11	•	ı	1	1	1	1
	281.0	286.0	18697	1			l	Trace	Nil	1		1	H	ı		1	I	I	
	286.0	288.5	18698	1	1		1	Trace	Nil	1		1	11	1.	1		1	1	1
-	288.5	293.5	18699	Į	1		ļ	3	Nil	1	ı	1	11	1	1		1	l	1
	200.5	473.3	100AA	1				Trace	• N1T				5 1	•		-	1		1

OROFINO

ASSAY SUMMARIES

				. I															
MILL BOLE	700	TAGE	SAMPLE		SAYI <u>etom</u>			- VAL	UE	REI	PERE	N C E:	Sample		ASSA	ED I	ľ:	VAI	LUE
MUNER	from	to	NUMBER	BW	sw	22	THR	Au oz/t	Ag oz/t	Drill Log	Sample Bok	Absay Result	NUMBER	BW	sw	122	THE	Am os/t	Ag 02/
		1		1	1	1				1	ì	1	1	1	1	ł	1		
438-87-1	303 /	1		1	ļ	1			ļ				li l		1	l .			1
	293.5	298.5	18700		ı	1	1	Trace	N11	1	1	t l	1	ı	1	i	1	1	1
	298.5	303.5	18701	•	1	1	1	Trace	N11				i	ı	1	1	l	1	1
	303.5	308.5	18702	ł	1	1	1 1	Trace	N11	I			il	1	Į.	I .	l	I	
	308.5	313.5	18703	1	1		1 1	Trace	N11	1		1			1	i	1	ł	
	313.5	318.5	18704	1	ı	1	1 ·	Trace	N11	1				1		1	ł.		1
	318.5	323.5	18705	1	l.	1		Trace	N11					1	1	1		1	1
	323.5	328.5	18706	1	1	1		Trace	NIL		ŀ			1	l	1	i	1	1
	328.5	333.5	18707		ł	1		Trace	N11		.			1	1	ı		١.	1
-	333.5	338.5	18706		ŀ	1	ł	Trace	Nil	1			٠.	. 1	ł	1	1	1	1
	338.5	343.5	18709	1	i	1		Trace	N11	I			Į.		1	ł	i	1 .	ŀ
	343.5	348.5	18710	ł	1	1		Trace	Nil	1	1			1		1	i	1	1
	348.5	353.5	18711	- 1	ı	1		Trace	N11	1				1		1	ļ	8 .	1
	353.5	358.5	18712	1	1	1	1	Trace	N11		1			1	1	1	1	1	1
	358.5	363.5	18713	ı	1	1	1	Trace	N11	1						1	ł	ı	I .
_	363.5	365.5	18714	1	1	1	1	Trace	Nil	1	1		i i	1	1	1	l	Į.	1
	365.5	369.5	18715		١,	1		l -:	l <u>.</u> "	:	1		li		1	ı	ı	l	1
	369.5	370.7	18716	- 1	1	1		1 "	1 -	I	1	I		ı	1	I		ŧ	I
	370.7	372.7	18717	ŧ	1	1	1		-	1	1		1	1	1	l	1	•	
- 7	372.7	374.7	18718		1	1		-	"	1	1				1	1	I	1	1
	374.7	379.7	18719	1			1		-					1	1	1	l	1	
	379.7	381.7	18720		1	1	1		-	i		1			i		1	l	
	381.7	383.7	18721	1	1	1	ı	! "							1	ı	1	ŧ	1
	383.7	388.7	18722	1	1	i	1	l "	-		1	1		1	1	1	1	l	l
	388.7	391.7	18723	- 1	1	1	1				ı			1	1	1	1		1
	391.7	394.7	18724	1.	l	1	1			ł	1				ł	1	1	l	
·	394.7	399.7	18725	1	1	1	ì	•	•	1				1	1	1	1	1	1
	399.7	404.7	18726		1	1	1			1	1				ı	1	1	ı	
	404.7	409.7	18727	- 1		1			•	1	t			1	1	1	1	1	ı
	409.7	414.7	18728	ł		1	ł		• •	1	ł				1	1	1	l	
	414.7	419.7	18729	1	1	1				1	1		H · ·		1	1	1	I	
	419.7	424.7	18730	1	1		1	**		1	I		ll ·	1	1	1	1	I	1
	424.7	429.7	18731	ı	1					1	I		1	1	1	1	1		
	429.7	434.7	18732		1	1.		*		- [i				1	1	1		
	434.7	435.7	18733	ı	1					1	ı		il '	I	ĺ	ł	1	Į.	1
	435.7	440.7	18734	ı	1	I	1			1	1			I	1	1	1	1	1
	440.7	445.7	18735	ł	1					1	1				1		}	Į	1
	770.7	T-2./	10/33	1	1	- 1	•	i .	1 -	1	1			1	1	ł	1		I ·

ILL HOLE	POO	TAGE	SAMPLE	AS Cus	SAYE	D BT :	VAL	U E.	REI	ERE	N C E:	Same		ass <i>a</i>	red 1	ľ:	VAI	
NUMER	from	to	NUMBER	· BW	SW	XR THI	Au oz/t	Ag oz/t	Drill Log	Sample Book	Abssy Result	NUMBER	54	SW	72	THR	Au oz/t	Ag 02/
438-87-1							ĺ											
450 07 2	445.7	449.7	18736	ł	1	1	Trace	N11		1	1	l l	Ì		i	1		1
	449.7	454.7	18737	ļ		1 1	Trace	N11	1		1	li	1	1	ł	l	ŧ	1
	454.7	459.7	18738	ł				·· ·	1				j	i	1	ł	ŀ	
	459.7	464.7	18739	ı	ł	1 1	**	-	1	ł				Ì	İ	Į.		
	464.7	467.2	18740	1			"	"					1			1	•	
•	467.2	470.7	18741		1	1 1	"						1	l	1	·	1	
	470.7	475.7	18742		1		**			1				•	ŧ		i	
	475.7	481.7	18743	1	1		"	"				•	1	1	1	1	1.	I
	481.7	486.2	18744	- 1	1		"	"		•			1	1	1	Į.		I
	486.2	488.2	18745	ł		l 1	"	"	1	1					1	ł .	ł	1
	488.2	493.8	18746	1	ł	1	"	"	1	1	1	H		1	1	•		ı
	493.8	498.8	18747	1	1		. "	"	!						1	1		1
	498.8	503.8	18748	1	1	l i	"	*		1	ŀ	H	1		1	ł	ł	1
•	503.8	508.8	18749	- 1	1		. "	. "		1				į.	1	I	ł	I
	508.8	513.8	18750	1		1 1	. "	"	1 ′	j			1	1	1	ł		1
<u>.</u>	513.8	518.8	18751	- [1 .	1	"	"		i		1	1	l	1	1	ł	1
-	535.3	540.3	18752	1	1	li	. "	"	1	1				ł	1		ŧ	1
•	540.3	545.6	18753	1	i	1 1	*	"	ł	1	li .		1	1	ł	1	l	
ī	549.3	551.3	18754	1	1	1 1	**	"	1	ł	i	H	ı	I.	1	1	1	1
	569.7	575.1	18755	1	1	11	"	"	I	i i	1				1	I	I	ł
	578.5	583.5	18756		1		"	"	1	1	1		1			1		
į	583.5	588.5	18757		1			"	.1	1	1		- 1	i	1	1	1	1
:	588.5	593.5	18758	1	1	1 1	-	"		ł	1		ı	1	1		1	I
†	593.5	598.5	18759		1	1 1	**	"	1	1	1	ll ·	1	ı	ł	1	ł	l l
	598.5	603.5	18760	1	1	1 1	*	*	l l	1	1		1	İ	1	1	1	1
1	603.5	607.5	18761		1	1 1	. "	•	1	1	Ī		ł	1	1	ł	<u> </u>	1
	607.5	610.7	18762	ł	1		**	*	1	1	į			1	i	1	1	ł
4	610.7	616.2	18763	- 1		1 1	*	0.90	1	1	1		1	1	1	1		1
•	616.2	618.7	18764	ı	1	11		*	1	1	1	H	1	1	1		<u>I</u>	1
•	618.7	623.2	18765	1		1 1			1	1	1		1	1	i	1	Į.	1
4	623.2	628.2	18766	I	1	1 1	1	-	•	1	1	łł	ı	1		1	ł .	I
4	628.2	633.2	18767	- 1	1	1 1	. "	"	1	1	l	11	1	1	1	1	1	1
1	633.2	637.7	18768	ı				"	1	1	1		1	1	I	1	l .	1
1	637.7	642.7	18769	ı		1 1		l "	I	1	I		į	1	1	I	I	1
	642.7	644.7	18770	ļ	1	{			1	Į.	l	(1	1	1	1	Į .	
	644.7	646.2	18771	•	I	1 I	-	-	1	1 .	I	[]	- 1		I	1	i	•
	646.2	650.0	18772		i	1 1		l	1	1	I	11	1	1	i	1	1	1

•

•

ON ARIO GEOLOGICAL SURVEY ASSESSMENT FILES OFFICE.

MAY 19 1988

RECEIVED

DRILL LOG

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

Property: SEINE RIVER

Location: 4+00S; 3+00E Co-ordinates:

Claim: K-855726

Section: 4+00s; Grid #1 Length: 350' Elevation:

Azimuth: 1200

HOLE: 438-87-2 Core size: BQ

Assayed By: Custom F.A.
Dip Tests: Sept. 3/87
Started: Sept. 5/87
Completed:
Logged by: S.G. & M. Stalker

	<u> </u>	Azimuth: 120°	D1p: -45°		rodded	1 by: 5.	.0. 4	n. 3U	Trer	
DEP	*	DESCRIPTION	sample	width	from	to		A:	SAYS	
JEP	16	NOTE: All angles are measured with respect to the long core axis.	number	w.com	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Au.	Ag		
from	to						0 2/ t	08/E		
0.0	9.4	CASING								
		9.2-9.4 BOULDERS-same lithology as 9.4-30.4, with 1/8" chl/pyrite stringer (35°							ł	
9.4	30-4	HODERATELY TO STRONGLY SHEARED TONALITE -green-grey, strongly sericitized and chloritized, moderately silicified tonality foliation (30°) -occasional blue-grey qtz eyes, moderate hematite stained, also hematite fracture filling and associated with chlorite -1 to 2% medium grain pyrite often fracture filling				٠				
		11.8-11.9 3/4" qtz/carbonate stringer (60°), hematite stained, 3% py, trace cpy 23.5-24.8 wasthered looking zone, core is broken and well fractured with chl and hematite fractured filling at 24.1" ½" tournaline band (30°) 26.2-26.3 1½" pink hematite stained, qtz veinlet (40°), with chlorite; 1% py with increase in pyrite in surrounding wallrock 28.8-30.4 zone is well fractured to breccia, carbonate and chlorite fracture filling								
30.4	45.7	WEAKLY SHEARED TOMALITE -light grey unit of 30% chlorite, 45% plagioclase, 25% qtz -occasional hematite staining, moderately silicified, moderately fractured (20-35°) with carbonate, chlorite and qtz fracture filling -1% pyrite disseminated throughout	18773	1.5	42.0	43.5	Tr	MIL	•	
		42.3-42.9 diorite dyke, similar to 45.7-47.8' with well formed euhedral plag. crystals and deep blue rounded cordierite? grains; both contacts sharp and regular (40°); trace pyrite 42.9-43.1 1½ qtz/chlorite/carbonate veinlet (30°), between diorite and tonality								
					•					,

) T+1	DESCRIPTION	sample	width	from	to		A:	SSAYS	
from	to	MOTE: All angles are measured with respect to the long core axis.	number			"		Ag oz/t		
45.7	47.8	DIORITE DYKE -dark green, strongly chloritized with phenocrysts of qtz, plagioclase, and blue rounded grains of cordierite? -occasional fractured with carbonate, qtz and chlorite fracture filling -both contacts sharp and regular, upper (40°), lower (40°) -3 fine grain disseminated pyrite								
47.8	72.8	WEAKLY TO MODERATELY SHEARED TONALITE -strongly sericitized and chloritized, moderate silicified tonalite -strongly fractured with carbonate and some qtz fracture filling -1% fine to medium grain pyrite from 47.8-68.0'; 2-3% fine grain pyrite from 68.0-72.8'	18774	2.0	66.7	68.7	Ťr	NIL		
		48.6-48.8 2" pod of qtz, carbonate and chlorite, 1% pyrite 59.1-60.2 weakly sheared tonalite, 1% pyrite								1
•		-at 62.0' %" chlorite/qtz/carbonate stringer (60°) -at 67.0' 1/12" discontinuous pyrite stringer (50°) -at 70.0' %" qtz stringer (40°), 2-3% pyrite with increase in pyrite in surround- ing wallrock								
72.8	81.5	STRONGLY SHEARED TONALITE -foliation (50°), strongly sericitized and chloritized -2-3% medium grain pyrite usually in fractures	18775	5.5	72.8	78.3	Tr	HIL		
•		74.4-79.8 strongly silicified zone with qtz pods and chlorite/carbonate stringers (20°); with broken core 78.8-79.4 10% medium grain to coarse grain pyrite associated with _ chlorite in fractures	18776	2.0	78.3	80.3	Tr	BIL		
81.5	95.7	MODERATELY SHEARED TONALITE -moderately sericitized, strongly chloritized, moderately silicified, foliation (40-50°) -from 91.2' shearing gradually increases to moderate to strongly sheared at end of unit -with minor qtz/carbonate stringer with 1-2% pyrite -2% medium grain pyrite over zone, pyrite rich locally -mafic rich sections at 82.8-83.2', 84.5-85.1', 88.8-90.0' -at 81.7' %" qtz stringer (70°), 20% coarse grain euhedral cubes of pyrite	18777	5.0	92.1	97.1	Tr	NIL		

AND THE PARTY

Page 3 of 2

200	\ - 44	DESCRIPTION	sample	width	from	to		٨	SSAYS	Acon	ad.
DEP	to	NOTE: All angles are measured with respect to the long core axis.	number	WIGGII	1104		Au oz/t	Ag oz/t	40/4		
		83.4-83.5 1/8" pyrite stringer (75°) 86.2-86.5 strongly silicified zone, 15% medium grain to coarse grain euhedral cubes of pyrite									
95.7 -	100.6	94.0-94.1 4 qtz stringer (50°), 5% coarse grain euhedral cubes of pyrite and increase in pyrite in surrounding wallrock STRONGLY SILICIFIED, MODERATE TO STRONGLY SHEARED TONALITE -strongly to intensely silicified, with silicification increasing towards bottom of unit	18778	2.0	97.1	99.1		MIL	-	-	:
-		-with blue-grey qtz eyes, foliation (approx 40°) -moderately sericitized, moderately chloritized with occasionaly strongly chloritized zones -32 medium grain pyrite over zone, usually found locally in fractures -at 96.3° ½° qtz stringer (45°), 15% coarse grain pyrite -at 96.9° ½° qtz stringer (50°), 3% medium grain pyrite with increase in pyrite in wallrock	18779	1.5	99.1	100.6	Tr	MIL	î	DISĞ	
		99.1-100.6 intensely silicified zone, with qtz pods, 5% medium grain pyrita, 1% cpy 99.1-99.4 two ½ qtz stringer (60°), trace medium grain pyrita with increase in pyrite in wallrock 99.5-99.7 ½ to 2° white waxy, well fractured qtz veinlet (55°) 5% fine grain to medium grain pyrite 99.7-100.3 QUARTZ VEIN (45°)									
		4" white waxy and greyish-white (in bands) qtz; ½ to 12 Ag associated with pyrite, 12 moly.; 102 pyrite as coarse grain in pods or fine grain to medium grain fracture filling 100.4-100.5 1" greyish-white qtz veinlet (55°); 5% medium grain pyrite, trace moly.									-
100.6	108.7	QUARTZ VEIN -white waxy qtz, often with greyish bands (at least 2 generations of weining) -with inclusions of highly silicified sections of above unit -upper contact sharp and regular (55°), bottom contact lost in broken and ground core	18780 18781 18782	1.5 1.6 1.0	100.6 102.1 103.7	102.1 103.7 104.7	Tr Tr	NIL 1.06 0.84	Tr	151 10,94 00.0	•

DEP	Thi	DESCRIPTION	sample	width	from	to			SSAYS Re-As:	
from	to	MOTE: All angles are measured with respect to the long core axis.	number				Au oz/t	Ag oz/t	Au uz/t	Ag UZ/E
		100.6-108.7 QUARTZ VEIN (con't)					1			\vdash
		-5% medium grain to coarse grain pyrite usually found locally in fractures, minor tourmaline, trace cpy, minor moly	18783	1.5	104.7	106.2	Tr	NIL	Tr	NIL
:		-15 to 1% Ag over zone, found locally	18784	1.0	106.2	107.2	Tr	0.98	Tr	MIL
		100.6-101.3 intensely silicified tonalite inclusion; greyish white qtz with greenish mottled remnants of tonalite, 10% medium grain to coarse	18785	1.5	107.2	108.7	Tr	0.70	Ťr	1.2
		grain pyrite 101.3-103.7 white qtz with trace tourmaline, minor Ag, less than 3 pyrite at 102.5' fracture with one fine grain of Ag 102.9-103.2 missing and broken core								
		at 103.5' k ⁿ band of tourmaline (60°) 103.7-104.8 white qtz with occasional inclusions of tonalite, trace Ag (103.9') 3% medium grain pyrite 104.4-104.6 broken and missing core	· .	·		-				
		104.8-106.0 white waxy qtz, rich in pyrite and Ag, with occasional tonalite in- clusion; 15% medium grain to coarse grain pyrite as stringers fracture filling; 1.5% Ag as grains and foils, often fracture filling, associated with pyrite and found throughout zone								
		106.0-106.9 white waxy qtz with a few silicified tonalite inclusions; 3% medium grain pyrite fracture filling, 3% Ag, trace moly 106.4° fracture with moly 106.7-106.8 3% fine Ag in clots								
-		106.9-107.2 tonalite as in upper unit, 5% pyrite, sharp contacts at 55°					i			ĺ
		107.2-107.9 white qtz with minor inclusions, minor tourmaline; 3% medium grain euhedral pyrite mainly in inclusions				ł				
		107.9-108.7 white waxy qtz, minor tournaline, 5% fine grain pyrite in fractures 2% grains and foils of Ag in stringers								
108.7	109.9	STRONGLY SILICIFIED, MODERATE TO STRONGLY SHEARED TONALITE -same as 95.7-100.6'	18786	2.0	108.7	110.7	Tr	1.06	.04	-
		108.7-109.1 broken, missing and ground core							:	l
109.9	142.0	MODERATE TO STRONGLY SHEARED TONALITE -similar to 81.5-95.7' -foliation (40-50°) moderately sericitized, chloritized, silicified, occasional hematite staining	18787	4.0	110.7	114.7	Ťŧ	1.24	.18	-

4. 经基金证明

		DESCRIPTION	sample	width	from	to			SAYS	aved	:
DES	71H	NOTE: All angles are measured with respect to the long core axis.	number	W10011		"	Au	Ag	Au	Ag	[] 4
from	to			l	l		oz/t	D 3/ E	oz/t	oz/t	1
		109.9-142.0 MODERATE TO STRONGLY SHEARED TONALITE (con't)	1								,
		-with irregular carbonate and qtz/carbonate stringer and clots -12 coarse grain pyrite, found locally, trace cpy									-
		116.7-116.9 1° qtz/carbonate veinlet (40°), 1% cpy 120.1-120.3 1° qtz/carbonate veinlet (75°), with minor chlorite, tourmaline, trace cpy, veinlet in silicified zone					·				,
		120.4-120.5 1" silicified zone with carbonate (650), with chlorite and tournalis	4	Ì							
		in ½" bend; 1% fine grain pyrite in tournaline bend 136.9-137.7 ½" qtz/carbonate semi-regular stringer (approx 10°), 15% coarse grain pyrite in stringer									
142.0	188.7	WEAKLY, TO MODERATELY SHEARED TONALITE			1		1				1
		-similar to 47.8-72.8'	18788	2.0	146.0	148.0	Tr	2.08	Tr.		į.
		-moderately and occasional strongly chloritized, moderately silicified, weakly to moderately hematite staining increasing towards bottom -very occasional zone bleached to yellow, gradual upper contact	18789	2.5	150.5	153.0	Tr	1.46			,
-		-ig fine grain pyrite -moderate to strongly sheared at 161.2-162.0' and 165.6-166.0'	18790	3.0	165.5	168.5	TF	HIL	-	-	
		146.3-147.6 in qtz stringer (150) with minor carbonate, chlorite and tourmaline which is on contact of footwall; 1% pyrite with increase in pyrite in wallrock; wallrock surrounding stringer is strongly hematized and is more strongly sheared									-
	1	146.7-147.3 strongly silicified zone, 5% pyrite, 1% cpy	1	I	1	l	l				
	•	156.0-156.4 ½ to 1 qtz/carbonate stringer (30°) with minor chlorite, tourmalise faulted (10°) off with increase in pyrite in wallrock	†			l					
_	1	160.8-161.0 strongly silicified zone; at 160.9 km carbonate/tourmaline/qtz	l	l		•	•				-
		stringer (70°), trace pyrite in tournaline 166.3-167.0 QUARTZ VEIN; 6" white qtz veinlet (approx 60°), with some carbonate	l								ł
	L	and wallrock inclusions; trace pyrite		1							
		167.4-167.5 12" white, semi-regular qtz veinlet (40°), 5% tourmaline	1			ł					i
		174.2-175.7 moderately sheared, strongly hematized zone	ł	į į							i
3.5		177.1-177.4 % white qtz stringer (25°)	1								
The state of		179.4-179.7 1" semi-regular carbonate/gtz stringer (30°), faulted (80°) off	ł							1	
	1	181.6-182.0 3/4" carb/qtz stringer (15°), faulted (80°) off								1	12
	•	183.3-183.7 l ^m carb/qtz stringer (30°), 15% chlorite 184.1-184.5 k ^m to k ^m qtz/carbonate stringer (30°)	ł						1	Į	, i
	I	185.5-185.8 4" atz stringer (30°), some carbonate, faulted (60°) with up to 4"								1	* 1
A41. A		AUJ. 7-103.0 5 GEZ BETINGET UN). SUME CATHODATA, TANIFAG (60°) with un to be	ĭ								

		DESCRIPTION	sample	width	from	to		A	SSAYS	
DEP	to	NOTE: All angles are measured with respect to the long core axis.	number	Widen	.,,		Am oz/t	Ag oz/t		
188.7		MODERATELY HEMATITIZED, MODERATELY SHEARED TONALITE -similar to 81.5-95.7' but with moderate hematite staining -1% pyrite found locally as coarse grain stringers 189.6-189.7 1/8" coarse grain pyrite stringers (50°) 192.9-193.1 2" silicified mafic/intermediate dyke (80°), fine grain								
195.9	202.8	STRONGLY HEMATITIZED, MODERATELY TO STRONGLY SHEARED TONALITE -moderately silicitized, sericitized, chloritized, occasional strongly sheared zone, red and green to grey-green -foliation (40°), 3% coarse grain pyrite found locally associated with carbonate	. 18791	2.0	200.6	202.6	Îr	WIIL.		
•		195.9-196.2 1½" red hematite stained qtz veinlet (70°), 5% pyrite, 1% cpy 197.0-197.1 ½" semi-regular carbonate stringer (40°), with chlorite and qtz, 30% pyrite 198.3-198.4 1" carbonate stringer (70°, with chlorite, qtz, minor tourmaline trace pyrite 199.9-200.2 ½" chlorite/carbonate stringer (25°), minor qtz, 30% pyrite and in- crease in pyrite in wallrock 200.9-202.6 pyrite rich zone; 15% pyrite found mainly in carbonate 201.5-201.7 fractures mostly filled with coarse grain pyrite (30°) 201.8-202.6 carbonate pods, abundant chlorite, 30% pyrite with increase of pyrite in wallrock 202.1-202.6 ½" semi-regular carbonate stringer (15°), abundant chlorite, 20% pyrite in stringer			·	·				
202.8	212.0	STRONGLY HEMATITIZED MODERATELY SHEARED TOWALITE -same as 188.7-195.9' but with increase in hematite staining -occasional carbonate stringer (30-50°) of less than ½" -at 209.5' ½" qtz stringer (70°), minor carbonate, hematite stained								
212.0	216.2	STRONGLY SHEARED TONALITE -weakly hematite stained, shearing increases throughout zone -moderate silicitized, chloritized, and sericitized -foliation (40°), graudal upper contact, minor pyrite as fine grain to medium grain euhedral cubes disseminated throughout	18792	4.0	212.6	216.6	Tr	RIL		
• -:										

A STATE OF THE PROPERTY OF THE

		DESCRIPTION	sample	width	from	to		A:	SSAYS	_	1
from	PTH to	NOTE: All angles are measured with respect to the long core axis.	number	Widen			Au oz/t	Ag os/t		_	1
216.2	+	STRONGLY HEMATITIZED, STRONGLY TO INTENSELY SHEARED TONALITEsimilar to 212.0-216.2 but strongly hematite stained and shearing increases, foliation at approx 30shearing increases towards bottom, foliation (40°), gradual upper contact, minor pyrite	18793	5.0	216.6	221.6	Tr	MIL			
221.3	231.4	STRONGLY TO INTENSELY SHEARED TOMALITE -similar to 212.0-217.2' but with slightly stronger shearing, weakly hematitized -medium green, foliation (40°), moderately sericitized and chloritized with many rounded clots of carbonate especially near start of zone -minor medium grain subsdral pyrite	18794 18795	1.5 5.0	221.6 223.1	223.1 228.1		HIL.			
-		221.3-221.6 MAFIC INTRUSIVE (lamprophyre?) strongly sheared (foliation 40°) with boudinaged qtz pods between foliation layers; alightly hematite staining 221.6-223.1 QUARTZ VEIN whole zone is strongly silicified with a white qtz vein running perallel to core axis (0°) without crosscutting it; abundant ground and missing core; upper contact lost in missing core, lower contact sharp at 25°; with abundant chlorite and sericite especially in silicified weallrock zone; trace pyrite, minor tournaline 226.0-226.4 strongly sericitized zone, friable									
231.4	233.7	MAFIC DYKE (MAFIC VOLCANIC INCLUSION ?) -dark green, fine grain, moderate foliation (40°) -some irregular carbonate stringers and pods approx. parallel to foliation, 1% medium grain ewhedral pyrite	-			, ,					
- 233.7	281.6	MODERATELY SHEARED TOWALITE -light grey and green, foliation (40°), weak to moderately chloritized and silicified -occasional hematite staining especially near top of zone, gradual decrease in intensity of shearing -occasional carbonate stringer (<½"), occasional fracture filled with chlorite (25-40°), 12 medium grain pyrite often fracture-filling	18796	3.5	261.8	265.3	Îr	HIL.			
				A La La						, 	h

		DESCRIPTION	sample	width	from	to		A:	SAYS	
from	to	MOTE: All angles are measured with respect to the long core axis.	number	Wigth	Trom	100	Au oz/t	Ag oz/t		
		233.7-281.6 MODERATELY SHEARED TONALITE (con't)								
		249.4-252.4 strongly fractured zone, with carbonate and sericite fracture filling with minor chlorite, tourmaline, trace pyrite 252.4-257.3 MAFIC VOLCANIC (inclusion) dark green, fine grain, foliation at 40°; both contacts sharp at 40° with chlorite and carbonate stringers at contacts and increase in py; occasional carbonate stringer (\$1/8") following foliation; 1% coarse grain euhedral pyrite throughout zone 254.8-255.0 ½" qtz/carbonate stringer (40°), minor tourmaline 256.5-257.0 six 1/8" to ½" carbonate stringer (40°) 262.0-262.4 1" qtz/carbonate veinlet (25°) 262.4-262.7 1½" mafic volcanic inclusion (40°) with carbonate and qtz on contacts 10% fine grain disseminated pyrite on contacts (in tonalite) 264.6-265.0 1½" mafic volcanic inclusion (40°) with a few thin (£1/8") carbonate stringers following foliation; 5% medium grain euhedral pyrite in								
281.6	350.0	weakly sheared tonalitesame as 30.4-45.7'occasional carbonate stringer ('%'') or clot, increasingly massive towards end of zone				·				
	350.0	282.3-284.1 SILICIFIED MAFIC/INTERMEDIATE VOLCANIC (Intrusion) green-grey, fine grain to medium grain, weak foliation (40°) shown by light grains; strongly fractured with carbonate and occasional chlorite fracture filling; both contacts sharp (60°, trace pyrite 285.6-286.2 ½" carbonate/qtz stringer (20°), with hematite staining 289.5-289.9 ½" chl/carb/qtz stringer (20°), hematite stained, minor tournaline 303.9-305.1 ½" semi-regular chl/qtz/carb stringer (10°), minor tournaline 320.0 ½" semi-regular qtz/chl/carb stringer (80°) 328.9-329.0 1" qtz/carb stringer (55°), minor tournaline 334.1-334.4 ½" carb/qtz stringer (25°), minor chlorite 335.0-335.1 ½" qtz stringer (40°), minor carbonate and chlorite END OF HOLE		•						1

OROFINO

ASSAY SUMMARIES

RESOU	RCES LIM	TED						JAI 3	UNNAK				Re-Assayed						
WILL MOLE	FOOT	AGE	SAMPLE	A.	SAYI	D F	r: \	VAL	. U E	REI	ERE	E C E:	Saiple	Cue	ASSA	y. 1	K:	VAI	LUE
PUNER	from	to	NUMER		sw	22	THR	Au oz/t	Ag oz/t	Drill Log	Sample Book	Absay Result	NUMBR		sv			Au oz/t	Ag os/
438-87-2									1	1				1					
	42.0	43.5	18773	1	1	1	l	Trace	NII	x			li	1	l	ł			i
	66.7	68.7	18774	1	1	1	l			1					i	1	1		
	72.8	78.3	18775		1	1	1		:	1				1	1	1	1	1	i
	78.3	80.3	18776	1	1	1	1	1 :	:	i i		Ì		1	1	1.		1	1
	92.1	97.1	18777	1	1	1	1		1 :	1				1	ł	ł	1		
	97.1	99.1	18778	1	1	l			1	1	1	1	H	1	l	1	1		<u> </u>
	99.1 100.6	100.6 102.1	18779 18780	ł	l	1		1 .		1	1	l	11	1	ì	į.	ł	Tr.	MTT
	102.1	103.7	18781		ı		ł					1		1	i	}	ł	IX.	MIT
	103.7	104.7	18782	1		1	l			ï	1 .	1	ii i	ı		1	i	Tr.	0.94
	104.7	106.2	18783		1	1	•			ŀ					1	1	1	Tr.	N11
	106.2	107.2	18784	1		ı	i i		0.98		ŀ		ii.	1	ı	1	1	Tr.	MIL
	107.2	108.7	18785	1	1	1			0.70		Ī.	1	Ħ	ł	ł	1	1	Tr.	1.22
	108.7	110.7	18786	1	1	1	1		1.06		i			1	1	ł	1	.04	
	110.7	114.7	18787	1	1	1	i		,1.24	1	1.		,	1	1	1	1	.18	_
	146.0	148.0	18788	1	ł	1			2.08		1		11		1	1 .	1	Tr.	I
	150.5	153.0	18789	ł	1.	1	ł		1.46		1		1	1	l		1	-	-
	165.5	168.5	18790		1	1		1 :	Nil		1		ii	1		1	1		1-
	200.6 212.6	202.6 216.6	18791 18792		1		1			1		t	#	ł		ł	1		1
	216.6	221.6	18793	1	1	1	1			1	1	1		1	1		•		1
	221.6	223.1	18794	-			1	-	•	1		l	11	ı	ŀ	İ	1		
	261.8	265.3	18796		1		1						11	1	1 .	1	1.	1	1
			1	i	1	ł	1		1				II	1	i	i	1.//	I	1
	l		1	1	1	ı	1		1	****		i			1	上	W		
•	1				1	1	1				1			Ι,	. (7.	116		
•	ł			1	1						ı	1			1	1'	i	ı	
				1									tra	M.		1	1	1	
	1		14. 4. 40			1	1					Ī	1/00	1	ł	i			
		I			1	ı	1	20			1	1	1		1	1		1	
			· .	-	1	I	1	1					11	1	1	ı		1	1
					1	1	1				1	1	! I						
			1	- 1		•					1		11	1		1	1	I	
			1	- 1	1	1		1			1.	1	11	1	I	1	1	1	1
	1	1]	ı	1	1	1	I	1	1	1	ł	11	ł		1	1	1	
	l		1	1	1	1	1	1			1		11	1	1	ł	1	ł	1
	. [1			1	1	- [1	1	1	. I	1		Ι.	1.	ı	1	ł	1



DRILL LOG

P.O. BOX 143, 1 FIRST CAMADIAN PLACE, TORONTO, CANADA MSX 1C7 TELEPHONE: (416) 362-6683 TELEX: 08-217766

Property: SEINE RIVER Location: L168, 4+50W Co-ordinates: Claim: K-855729

Section: 16+00S, Grid #1

Length: 400' Elevation: Azimuth: 120°

<u>Dip:</u> -45°

HOLE: 438-87-3 Core size: BQ

Assayed by: Custom F.A. Dip Tests: @ 400'-42' Started: Sept. 5/87 Completed: Sept. 10/87 Logged by: D. Burrows; M. Stalker

		DESCRIPTION	sample	width	from	to		A:	SSAYS		
DEI	אוי	NOTE: All angles are measured with respect to the long core axis.	number	WIGEN	11 (38)		Au	Ag			
from	to					ON	32/6	OZ/G	OGICA	LSUB	VEY
0.0	30.7	CASING					ASS		ENT	FILE	;
30.7	36.5	BASALTIC TO ANDESITIC PORPYRITIC DYKE OR XENOLITH -from 30.7-31.4 and 34.9-35.5 weakly hematized medium grain leucotomalite probably dykes within xenolith -variably orientated carb stringers at 3-4" spacing \$2mm throughout section					N		FICE.	988	
36.5	39.0	MASSIVE MEDIUM GRAIN LEUCOTONALITE-TRONDHJEMITE				Table College	RE	CE	1 1	ED	
39.0	51.6	MEDIUM GRAIN MODERATELY SHEARED TONALITE-DIORITE -gradational from last section, similar carb stringers -at 44.0' qtz-carb-chlorite vein -0' -at 45.1' 50' qtz-carb-chlorite-tourmaline 1-2cm vein; minor pyrite -equivalent to medium grain chloritic varably of tonalite on surface	·	-							
51.6	55.6	MASSIVE TO WEAKLY FOLIATED TONALITE -mafics altered to chlorite plag relatively unaltered, trace pyrite -from 54.4-55.6' 2-3% pyrite in irregular microfractures	18797	6.0	54.0	60.0	Tr	MTT			
55.6	62.0	STRONGLY FOLIATED, TOWALITE -45° fab, strong sericitization of plag giving blotchy appearance; also start of weak hematitic alterations -from 55.6-58.0' 1-2mm tournaline stringers parallel to foliation and also blackish colours (?) due to disseminated tournaline -some irregular carb stringers, trace pyrite			-	-			•		
62.0	71.0	VARIABLE MASSIVE TO MODERATELY SHEARED TOWALITE -massive up to 64.0' then variably developed foliation, trace pyrite									:
t										. 1	l
						·					:

Page 2 of (

<u> </u>	050		DESCRIPTION	sample	width	from	to		. A:	SSAYS	
	from DEP	to	NOTE: All angles are measured with respect to the long core axis.	number	widen	1100		Au oz/t	AE DE/E		
	71.0	83.0	INTENSE PINK HEMATITIC () ALTERATION -superimposed on weak-moderately foliated tonalite -loss of texture and decreased plag and qtz, chlorite remains -cut by irregular chlorite stringers, some with minor pyrite, otherwise trace pyrite -gradational to chloritic sericitized trondhjemite down hole	18798 18799	5.0	71.0 76.0	76.0 81.0	Tr	MIT		ì
			73.6-75.7 strongly foliated mafic diorite/lamprophyre dyke with sharp 45° contacts with pink tonalite								1
	•		-one granitic (?) clast at 73.7° (dykes are similar to Goose-Egg Albitite dykes in Timmins Camp) -contour slivers of pink altered tonalite but no alteration is observed in dyke suggesting it intruded after this alteration -dyke is cut by at least two generations of qtz-carb (+ chlorite and tourmaline) veinlets at 74.5°								
	83.0	101.0	WEAK-MODERATELY FOLIATED TROMBHIEMITE (0° SERICITIZED TOWALITE) -weak hematitic pink alteration in patches -at 88.6° icm 45° carb-chlorite wein with 5% pyrite within 1-2cm	18800	2.0	88.0	90.0	Tr	MIL		
			88.7-89.2 3 irregular ≤lcm qtz-carb-chlorite veinlets ~5% py over this width 89.2-89.7 6" qtz-tourmaline-carb-sericite vein at ~50°, 4-5% pyrite 89.7-90.0 silicified chloritized zone with ≥10% pyrite including 30° py-chlorite stringers ~1cm to ½cm thick								
			-at 100.2' 80° qtz-carb-chlorite (+ tourmaline) 2cm weinlet				٠,	•			
	101.0	108.0	WEAK TO MODERATE PINK HEMATITIC ALTERATION IN WEAKLY FOLIATED TOWALITE -cut by numerous chlorite-carb irregular veinlets with pyrite at 101.2; 105.3; 107.9 and 108.0'	18801	6.0	101.0	107.0	Tr	HIL		• • • • •
	108.0	117.5	MODERATELY SHEARED AND SERICITIZED TONALITE -slightly hematized in patches -at 109.0-110.0' highly sericitized and sheared portion with two qtz-carb-chl. vcins 3 and 1" respectively; <1% pyrite	18802	3.0	107.0	110.0	Tr	0.92		
:			-many 20°-50° chlorite (?tourmaline) filled microfractures	ing and the second							Ė

		DESCRIPTION	sample	width	from	to		A	SSAYS	
DEP		NOTE: All angles are measured with respect to the long core axis.	number	Width	TPUM	L W	Au oz/t	Ag oz/t		_
117.5	137.0	MASSIVE GREY COARSE GRAINED TONALITE -slightly hematized up to 123.0'; minor carbonate stringers + pyrite 1-2% -at 120.8' qtz-carb-tourmaline 45° lcm vein in 1' section of strongly sheared and sericitized tonalite								
137.0	168.0	MODERATELY SHEARED GREY SERICITIZED TONALITE -with carbonate stringers -one relatively massive section from 153.0-155.0'; sheared tonalite is cut by carb-chlorite stringers may be parallel to 45-50 fabric -at 135.3' 90° qtz-carb-tourmaline-chlorite 1" vein; no sulphides in vein 1-2Z in sericitized wallrock -at 137.6' 45° ½" qtz-carb-chlorite-pyrite vein, with tourmaline filled micro-fractures at 137.0' -at 145.6 and 146.2' 1" 45° qtz-carbonate vein, minor tournaline and cpy -at 155.4' 2" zone of shearing and chlorite-carb stringers -at 159.5 6" zone of shearing ~45° with carb-tournaline stringers -at 162.9' 1" carb-chlorite vein with pyrite and minor cpy								
168.0	188.0	GREY MASSIVE TONALITE TO LEUCOTONALITE -4-6" spaced carb (+ chlorite) stringers, small zones within of strong shearing -at 175.5-176.0' silicification, 2% pyrite in chloritic microfractures -increased pyrite (up to 5%) -at 177.5' over 3" associated with 50 2mm qtz veinlet -at 178.5' over 6" associated with 50 2mm qtz veinlet and silicification -at 184.8' over 2" associated with qtz and carbonate stringers with silicification	n.					-		
188.0	196.5	STRONGLY FOLIATED CHLORITIZED TONALITE -45° fabric defined by qtz elongation and allargando of chlorite -series of irregular carb stringers perpendicular to this \$\sim45^\circ\$ fabric -also qtz eyes fractured perpendicular to long axis & veined by carbonate -at 189.0' carb-chlorite stringers -at 189.7' 80° qtz-carb with 5% within 2cm of vein, 1cm vein -at 190.3' 70° carb \(\frac{1}{2}\)cm stringers -at 192.3-193.0' 3 carb stringers -at 193.1' 1cm 50° qtz-chlorite-pyrite vein -from 193.0-196.0' increased disseminated pyrite associated with silicification and carb stringers \$\rightarrow 3-4% -at 194.9-195.3' 4" 45° qtz-carb-sericite vein with disseminate pyrite in adjacent wallrock, plus \$\rightarrow 3% pyrite in vein associated with tourmaline filled fractures	18803	4.0	192.0	196.0	Tr	ĦIL		

řş.

		DESCRIPTION	sample	width	from	to		· A	SSAYS	;
from	to	MOTE: All angles are measured with respect to the long core axis.	number	width	170	1.0	Au oz/t	Ag os/t		
196.5	206.6	RELATIVELY MASSIVE COARSE CRAINED CHLORITIZED TONALITE -with irregular closely spread carb-chlorite stringers, trace pyrite								'
206.6	244.1	MODERATELY FOLIATED (SHEARED) GREY TONALITE -with carb-chlorite stringers, trace pyrite, highly carbonated and sericitized -at 232.4-233.1° chloritized, silicified zone with 'y" qtz-carb stringers -at 234.0° 40° 2" carb-qtz wein (+ tournaline-chlorite) -at 235.1' irregular clot of qtz-carbonate-chlorite -at 238.6-244.1° lighter coloured silicified zone with 3-4% pyrite associated with carb crystal qtz stringers, 1" qtz wein at 243.7° -transitional into strongly sheared section down hole	18804	6.0	238.0	244.0	Tr.	nir		
244.1	251.2	STRONGLY FOLIATED AND SERICITIZED TONALITE -with paler patches of silicification interfingering with darker highly sericitized portions (especially with 6" of vein) 2-3% pyrite overall -at 249.3 60 3cm qtz-carb vein	18805 18806	5.0 3.0	244.0 249.0	249.0	1	0.80		
252.2	254.5	QUARTZ VEIN -mixture of fine qtz veins and stringers and wallrock inclusions especially at base; has 2° blesched zone beneath vein -portions with 10-15% pyrite; ~5% overall, ~1% cpy, ~1% NoS, in places; cut by calcite (carb) filled fractures also minor tournaline	18807	2.5	252.0	254.5	ļ	NIL		
254.5	267.6	MODERATELY TO STRONGLY FOLIATED TOWALITE -at 261.9' 6" of very strongly foliated tonslite -at 262.2-262.6' qtz vein with 3-4% pyrite, carbonate trace -at 262.8-267.6' bleached (silicification, sericitization) -zone perhaps approaching near very strongly sheared section	,							
267.6	276.8	STRONG TO INTENSE SHEARING IN TONALITE -as 188.0-196.0 section (see previously) with carbonate microfractures perpendicu to extension direction parallel to 40° fabric; 1-2% pyrite							ę	
		-at 207.9° 2° 80° qtz-tourmaline-carbonate vein -at 271.0-272.2° moderate sheared bleached zone (as above) with 1°xi° qtz-tourm- carb veins at top and base respectively -8.8. at 274.8-275.2° qtz-carb-pyrite vein (15-16% py, minor MoS ₂ and native Ag)	18808 18809	1.0	269.5 274.5	274.5 275.5		1.12 MIL		
#1 <u>.</u>					-					

		DESCRIPTION	sample	width	from	to		A:	SAYS	
DEP		NOTE: All angles are measured with respect to the long core axis.	number	Width	170		Au oz/t	Ag oz/t		
from 276.8	291.5	MODERATELY TO STRONG SHEARED BLEACHED TONALITE				 	-			
270.0	272.3	280.0-290.0 irregular carbonate-qtz veins spaced at 3-6" intervals			<u> </u>	Ĭ	•			1
		-at 283.5-291.0' pyrite <5% as small stringers and clots in strongly sheared and	18810	4.0	283.0	287.0	 	WIL		1 1
		silicified tonalite particularly at 284.0; 286.1 and 288.5' -at 289.9' 60° qtz-carb-tourmaline vein 1cm wide	18811	4.0	287.0	291.0	1	1.22		
291.5	303.6	WEAKLY FOLIATED GREY TONALITE -foliated 40° -with 1% coarse grain euhedral pyrite, mostly in filling occurence fractures with carbonate -at 292.8' 1/8" medium grain euhedral pyrite stringer (70°) -at 297.4-297.6' silicified zone with qtz and carbonate pods-stringers (½" - 1" long and wide) 75°; zone begins and ends with two 1/8" tourmaline stringers (75°), minor chlorite -at 306.5-306.8' ½" carb-qtz stringers (30°) with chlorite, 30% coarse grain py in stringers								
303.6	326.6	WEAKLY SHEARED TO MASSIVE TONALITE -with minor pyrite, gradational contact with above unit -with frequent fractures filled with carbonate, minor chlorite (35°-60°; 4 kg								
326.6	335.7	WEAKLY SHEARED GREY TOWALITE -shearing gradually increases over zone -with fractures (25-45°) < ½" carbonate filled with minor chlorite								
335.7	379.3	MODERATELY SHEARED TOKALITE -foliated (40°) gradual contact with above unit -1% medium grain to coarse grain euhedral pyrite disseminated through zone or in carbonate stringers	18812 18813	2.0 2.0	335.4 337.4	337.4 339.4		1.02 NIL		
		337.3-338.1 strongly silicified and sericitized zone, shearing gradual gets	18814	2.0	339.4	341.4	Tr	MIL		1 1
	·	stronger from 335.7 to end of this zone 338.1-338.5 5" white qtz vein (contacts semi-regular 70-80°), minor chlorite, carbonate, wispy tourmaline bands start and end this zone, 10% py 3% cpy, pyrite mostly on two edges of zone as medium grain 338.5-338.6 338.6-340.3 strongly silicified zone								

The second secon

OROFINO RESOURCES LIMITED Hole No. 438-87-3

Page 6 of

	DEPTH	DESCRIPTION		sample		6	1	}	A:	SSAYS		
DEP1	TH to	NOTE: All angles are measured with respect to the l		number	width	from	to	Au oz/t	Ag OZ/E			T
-	-:0	335.7-379.3 MODERATELY SHEARED TONALITE (con°t)						1				T
		349.3-372.9 zone is bleached to light beige with occasional short	rt sections of									
		-at 352.4° $1/8^{\circ}$ tourmaline band (60°) , trace pyrite -at 253.1° $1/8^{\circ}$ tourmaline band (75°) , trace pyrite							·			
		357.5-357.7 ½ breccia qtz vein (40°) with many fractures filled increase in pyrite in wallrock 371.4-372.2 moderately strongly silicified zone with 4 ½ carbon with minor qtz										
		371.8-371.9 breccia qtz vein (60°) white-greyish we coarse grain, pyrite on contact with footwall (5% or	axy qtz with ver qtz vein)									
379.3	400.0	WEAKLY SHEARED TOWALITE -with 1/2 medium grain cuhedral pyrite		. 1								
		-occasioanl short section is bleached lighter -at 282.5' 8 ½" white waxy semi-regular qtz stringer (50°), minor trace pyrite										
		-occasioanl short section is bleached lighter -at 282.5' 8 ½" white waxy semi-regular qtz stringer (50°), minor										
	400_0	-occasional short section is bleached lighter -at 282.5' 8 ½" white waxy semi-regular qtz stringer (50°), minor trace pyrite 382.8-382.3 ½" white qtz vein (60°) with bands of toursaline (20°)										
	400_0	-occasional short section is bleached lighter -at 282.5' 8 ½" white waxy semi-regular qtz stringer (50°), minor trace pyrite 382.8-382.3 ½" white qtz vein (60°) with bands of tourmaline (20°) trace pyrite mainly in tourmaline										
	400-0	-occasional short section is bleached lighter -at 282.5' 8 ½" white waxy semi-regular qtz stringer (50°), minor trace pyrite 382.8-382.3 ½" white qtz vein (60°) with bands of tourmaline (20°) trace pyrite mainly in tourmaline									•	
	400_0	-occasional short section is bleached lighter -at 282.5' 8 ½" white waxy semi-regular qtz stringer (50°), minor trace pyrite 382.8-382.3 ½" white qtz vein (60°) with bands of tourmaline (20°) trace pyrite mainly in tourmaline									•	
	400_0	-occasional short section is bleached lighter -at 282.5' 8 ½" white waxy semi-regular qtz stringer (50°), minor trace pyrite 382.8-382.3 ½" white qtz vein (60°) with bands of tourmaline (20°) trace pyrite mainly in tourmaline									•	
	400_0	-occasional short section is bleached lighter -at 282.5' 8 ½" white waxy semi-regular qtz stringer (50°), minor trace pyrite 382.8-382.3 ½" white qtz vein (60°) with bands of tourmaline (20°) trace pyrite mainly in tourmaline									•	
	400.0	-occasional short section is bleached lighter -at 282.5' 8 ½" white waxy semi-regular qtz stringer (50°), minor trace pyrite 382.8-382.3 ½" white qtz vein (60°) with bands of tourmaline (20°) trace pyrite mainly in tourmaline									•	
	400_0	-occasional short section is bleached lighter -at 282.5' 8 ½" white waxy semi-regular qtz stringer (50°), minor trace pyrite 382.8-382.3 ½" white qtz vein (60°) with bands of tourmaline (20°) trace pyrite mainly in tourmaline									•	

TILL HOLE	FOOT	AGE	Samle	AS Cus	SATES ton F	.A.	- VAL	UE	REF	ERE	N C E:	SAMPLE	1	SSAY E	d e	:	VAI	. W Z
HUHBER	from	to	NUMBER	· BW	SW	JR THR	Au oz/t	Ag oz/t	Orill Log	Sample Book	Absey Result	NUMBER		sw	**	THE	Au oz/t	Ag oz
438-87-3	54.0 71.0 76.0 88.0 101.0 107.0 192.0 238.0 244.0 252.0 269.5 274.5 283.0 287.0 335.4 337.4 339.4	60.0 76.0 81.0 90.0 107.0 110.0 196.0 244.0 252.0 254.5 274.5 275.5 287.0 291.0 337.4 339.4 341.4	18797 18798 18799 18800 18801 18802 18803 18804 18805 18806 18807 18808 18809 18810 18811 18812 18813 18814				Trace	N11 " " 0.92 " 0.80 1.06 " 1.12 " 1.22 1.02 "	x			Los	mer			Ma		

ONTARIO GEOLOGICAL SURVEY

ASSESSMENT FILES

OFFICE

MAY 19 1988

RECEIVED

Page 1 of 14

OROFINO

P.O. BOX 143, 1 FIRST CANADIAN PLACE, TORONTO, CANADA M5X 1C7 TELEPHONE: (416) 362-6683 TELEX: 06-217768

chlorite pods

at 31.9° ¼" tourmaline band (70°)

Property: SEINE RIVER

Location: L4E, 5+96N Co-ordinates: 4+00E; 5+96N

18817

18818

3.0

2.0

34.6

37.6

Claim: K-855731

Section: 4+00E; Grid #2 Length: 400

Length: 400 Elevation: HOLE: 438-87-4 Core size: BQ

Assayed By: Custom F.A.; Ass(Ont.)Ltd Dip Tests: 400.0 -47

MII.

INII.

37.6 Tr

39.6 Tr

Dip Tests: 400.0' -47
Started: Sept.11/87
Completed: Sept. 13/87

Azimuth: 345° DRILL LOG Logged by: Mary Stalker **ASSAYS** DESCRIPTION sample width from to DEPTH MOTE: All angles are measured with respect to the long core axis. number oz/t oz/t t٥ from CASING 0.0 25.6 39.4 HAFIC VOLCANIC 25.6 18815 -fine grain, dark green, soft, basalt 6.0 25.6 31.6 MIL. -moderately foliated with frequent carbonate-qtz stringer and pods following foliation -1-27 fine grain to medium grain pyrite found in carbonate-qtz stringers 25.6-26.5 moderately sheared tonalite, 3% fine grain to medium grain, 1% cpy, contact with mafic sharp (40°) at 26.3° k qtz/tourmaline/chlorite band (70°), 3% pyrite, footwall rich in coy near zone 27.4-27.5 3 qtz vein (75°) 28.7-28.2 14" ton intrusion (75°) same as 25.6-26.5', sharp contacts (intrusive) 29.9-30.3 well silicified moderate sheared tonalite (60°) intrusive (3"), with 3Z pyrite and increase in pyrite in mafic (especially footwall) near tonalite 30.9-31.4 lamprophyre dyke 6", light green with dark green stretched phenocrysts: sharp contacts both at 80°, with minor epidote, occasional qtz pod. 17 medium grain-eubedral pyrite 31.6-34.1 strongly sheared, strongly sericitized tonalite, 5% medium grain 18816 3.0 31.6 34.6 Tr MIL.

pyrite

32.8-33.1 1½ white qtz vein (40°) some carb, minor tourmaline, increase in pyrite in wallrock

33.2-33.4 ½ white qtz vein (40°) some carb, 10% tourmaline edge.

33.2-33.4 ½ white qtz vein (40°) some carb, 10% tournaline edging vein, 5% cpy in vein

euhedral pyrite over zone, 1% cpy; frequent wispy tournaline bands throughout and surrounding qtz pods, 10% over zone; occasional

32.2-32.7 irregular carb/tourmaline/chlorite/qtz vein, 3% cpy, trace

33.3-34.5 zone mainly composed of irregular qtz vein and pods all

		DESCRIPTION	sample	width	e			A	SSAYS	
DEP from	to	NOTE: All angles are measured with respect to the long core axis.	number	MIGEN	from	to	Au oz/t	Ag oz/t		
, , o		25.6-39.4 MAFIC VOLCANIC (con't)								
		34.0-34.5 5" white qtz vein, upper contact lost in missing core, bottom irregular (\$\times 70^0\$); with 25% tourmaline, 20% carbonate (often ankerite stained) minor chlorite and 1% pyrite 35.0-36.4 moderate sheared tonalite intrusion (70°); same as 25.6-26.5 diorite dyke fine grain, grey with blue cordiente? rounded phenocrysts and large stretched dark phenocrysts similar to above lampro, both contacts sharp at 40°; 5% pyrite 37.7-39.4 qtz vein white waxy qtz with some carbonate minor tourmaline; 2% cpy; with above diorite inclusion up to 1½" long; .3' missing from zone and towards end of zone qtz is rusty and weathered looking and vuggy								
39.4	44.6	STRONGLY SHEARED AND STRONGLY SILICIFIED TONALITE -foliation 40°; gradually gets less sheared towards bottom contact -2% fine grain to medium grain euhedral pyrite often in fractures, 2% cpy 44.1-44.2 % qtz vein (60°) semi-irregular with 30% cpy, 5% pyrite in stringers	18819	5.0	39.6	41.6	Tr	NIL		
64.6	\$6.7	MODERATELY TO WEAKLY SHEARED TONALITE -decreases in intensity of shearing towards bottom, well fractured, often filled with chlorite -27 medium grain to coarse grain euhedral pyrite found locally associated with chlorite	18820	6.0	51.0	57.0	Tr	NIL		
		51.1-52.6 zone is bleached pale green to cream, with dark chlorite and tournn- line in fractures and pyrite rich zone, 5% pyrite as above over zone 54.5-54.6 % qtz vein (60°) 54.6-55.0 zone is bleached; same as 51.1-52.6		-						
56.7	69.0	MAFIC VOLCANIC -medium grey to green grey; fine grain mafic, strongly altered, occasional carb qtz stringers/vein (たない) -upper contact missing in lost core, 1% medium grain euhedral pyrite	18821 18822	4.0 2.0	57.7 65.5	61.7 67.5	•	NIL NIL		
		56.7-60.5 green and white mottled to banded due to high (40%) carb contact 61.7-63.6 moderately sheared tonalite; both contacts sharp, both at 60°; occasional wispy tournaline stringers	18823	1.5	67.5	68.0	Tr	NIL		

THE STATE

		DESCRIPTION	sample		6	to		ASS	SAYS	
DEP	<u> </u>	NOTE: All angles are measured with respect to the long core axis.	number	width	from	to	Au	Ag		T .
from	to						oz/t	Oz/t		
	i	56.7-69.0 MAFIC VOLCANIC (con't)				i		1		1
		66.3-66.7 broken, missing and ground core 67.5-68.7 moderately sheared tonalite, both contacts regular but not particu- larly sharp; both at 40°; with 5% medium grain pyrita 68.0-68.3° 3" white waxy qtz vein (55°), trace cpy		-						
69.0	84.5	MODERATELY SHEARED TOMALITE, STRONGLY SILICIFIED				ł		1 1		1
0,10		-green grey, 1% fine grain to medium grain enhedral pyrite throughout, moderate sericitization, upper contact sharp (40°)	18824	5.0	69.0	74.0	Tr	1.22		1
•		69.0-70.1 very strongly silicified, minor tournaline; at 69.4-69.7 1 white	18825	3.5	74.0	77.5	Tr	RIT	•	
		qtz vein (40°) 70.5-70.7 ½ strongly altered mafic volcanic both contacts sharp (50°)	18826	1.5	77.5	79.0	Στ	MIL		1
	1	71.4-72.1 strongly altered mafic volcanic both contacts sharp; upper (60°),	18827	2.0	79.0	81.0	-	NIII.		
		lower (55°); with possibly trace Ag, 3% medium grain euhedral pyrite 72.5-73.0 5" strongly altered mafic volcanic, both contacts sharp (55°), 1%	1002/	2.0	/3.0	**.*	<u> </u>		- 1	
		medium grain euhedral pyrite				į		1		1
		72.9-73.1 1° qtz vein (55°) with wispy bands of toursaline (20%), 1% py, trace				1				
		78.2-78.4 1" white waxy qtz vein (50°), 10% tournaline as waxy bands, trace cpy								Ì
	1	78.4-78.6 1" to 1" semi-irregular qtz vein (50°) with minor carbonate				{			Ī	1
	•	81.5-81.7 25% cpy, 10% pyrite in very strongly silicified zone 82.2-82.5 2 mafic volcanic, both contacts sharp (60°)								
84.5	117.2	MODERATELY SHEARED MAPIC VOLCAMIC							- 1	j
	1	-medium green, fine grain, moderately silicified, occasional qtz/carbonate	18828	2.0	92.0	94.0	Tr	MIL		
_		stringers following foliation ('%') -12 pyrite found locally but with a few very pyrite-rich zones mentioned below	18829	2.0	94.0	96.0	1 22	MIL		
- 	J	-upper contact shape (65°) with wispy bands of fine grain pyrite till 95.2°	18830	2.0	96.0	98.0	Tr	NIL		1
		-slightly bleached looking gradually increasing	18831	2.0	101.2	103.2	TT	MIL	- 1	1
· 4		-at 84.5° ½" white qtz vein (65°)	18832	2.5	103.2	105.7	72	MIL	1	I
	7	ون.ن-85.5 strongly silicified mafic volcanic, 1% fine grain to medium grain enjudral pyrite, well fractures; at 85.4-85.5 أوا والمادة	18833	1.5	105.7	107.2		MIL	1	1
	1	some hematite staining, faulted (50°) off with 1 displacement	18834	1.8	107.2	109.0		MIL		
		87.9-88.0 3/4" strongly silicified tonalite intrusion (65°) 89.4-89.5 12" tonalite intrusion (65°), 5% fine grain to medium grain substral	18835	2.0	109.0	111.0		MIL.		1
		pyrite with pod of tonslite in footwall	20023		30503				-	
									. [

DEPTH		DESCRIPTION	sample	width	fram	to		A:	SSAYS		
from	to	4	NOTE: All angles are measured with respect to the long core axis.	number	Wigth	Trus	1 .0	Au oz/t	Ag oz/t		
11 0		84.5-117.2 MODE	RATELY SHEARED MAFIC VOLCANIC (con't)								
	5m	<u> </u>					ł				ŀ
		91.8-92.0	tonalite intrusion (60°)	18836	4.0	111.0	115.0	Tr	WIL		
		92.4~92.5	3/4" tonalite intrusion (65°)			ŧ	i				
		94.1-94.3	2" qtz vein (55°), minor carbonate, 15% tourmaline, 3% very fine	18837	2.0	115.0	117.0	Tr	MIL		
			grain pyrite in tourmaline; core is broken and missing in this				1				}
			zone, footwall is strong silicified for 2" and has kinks in folt'n				ļ				
		95.2-95.6	5" white qtz vein (60-70°), minor carbonate and chlorite, 10%				l				
			tourmaline, trace pyrite				1				
		95.8-96.0	5" white qtz vein (semi-regular 70°), 15% tourmaline				l				
		96.0	porphyritic mafic volcanic, fine grain to medium grain beige euhedra	-			i				
			soft grains (plagioclase?); grains gradually increase in size			ł	1				
		102.5-102.7	y" course qtz vein (60°) with 15% cpy, 5% sphalerite/bismuthinite]	•	j j			
		1 ,,,,,,,,,	bluish			ł			i		
		103.4-107.1	strongly-intensely silicified mafic (may be some tonalite intrusions			ŀ	•				
		1	in zone); white to pale green-grey, both contact (550), often qtz looks waxy; minor chlorite and tourmaline in band, 5% cpy, 20% py				[
		1	medium grain often in fractures following foliation				l				
			-at 103.5-105.0' 12% cpy			l	l	1 .			
			-at 105.8-106.6' massive pyrite, 25% pyrite disseminated through			į.	1				
			dark gtz and chlorite								
		107 5-107 6	Y" tonalite intrusion (55°) moderately strongly sheared_tonalite				i				
			14" tonalite intrusion (55°); at 107.7' 4" qtz vein (65°) trace cpy				l				
		107.0-107.9	5% sphalerite/bismuthinite		·	1	•				
		108.3-108.8	4" moderately sheared tonalite (55°)			1	•				
		108.8-109.0	2" moderately sheared tonalite (55°)			•	ł				
			strongly sericitized diorite to very porphyritic mafic with fine				l				
			grain tonalite minute (albite); at 109.3-109.6' intensely serici-				i				
	1		tized zone, bluey-white								
		111.2-111.5	2½" moderately sheared tonalite (40°)				ł				
		112.2-112.3	y moderately sheared tonalite, pyrite in stringers in wallrock on			Ì					
İ	-		both sides for 2"		ĺ		i .				
		112.4-112.5	's semi-irregular qtz vein (60°)				1				
		112.5-114.9	moderate to strongly sheared tonalite, moderate sericite and silica		,		l	i i			
	l		with wispy k" thick bands of chlorite; with 3% pyrite, 1% cpy usual	Ly			1				
			found in these bands	·			1				1
		116.2-117.2	strongly to intensely silicified and strongly silicified mafic				1	1	1		
			frequent beigy brown mineral, albite? (3%); 2% medium grain euhedral				1 .				
			pyrite, 2% cpy				•				

		DESCRIPTION	sample	width	from	to		A	SSAYS		
DEP*	to	NOTE: All angles are measured with respect to the long core axis.	number	Widen		"	Au oz/t	Ag os/t			
117.2		DIORITE INTRUSIVE				1		1	1		
I		-still looks mafic rather than intrusive	18838	3.0	117.0	120.0	TE	NIT		1	
		-dark green with light pheonocrysts (up to %") -most of it moderately to strongly altered and sheared but good zone (151.3-154.5)	18839	1.0	120.0	121.0	Tr	MIL	t i	1	
		displays good diorite fabric and texture; 30% mafic minerals (chlorite); 70%	18840	4.0	121.0	125.0	Tr.	MIL	1	1	
		large phenocrysts mostly plagioclase (often zoned) in square euhedral grains	18841	3.2	125.0	128.2		1	l i	ı	
		and quarts			4	•		Ì	1	j	
		-altered parts are often strongly silic and sericite; well fractured; mostly	18842	2.5	128.2	130.7	1	ļ	l [i	
		altered except for those places list below -generally 17 medium grain euhodral pyrite but varies often locally pyrite rich	18843	2.0	130.7	132.7	Tr	NIL		1	
-		zones	18844	5.0	132.7	137.7	Tr	MIL	1 }		
		-frequent irregular pods and stringers of qtz/carbonate or silicified tonalite	18845	5.0	137.7	142.7	l	MIL	1 1		
		-orange brown mineral (here orange) rutile is frequent	18846	5.0	142.7	147.7		MIL	1 1	1	
		120.3-120.7 4" moderately sheared, medium silica tonalite intrusion (50°) with				1	1		1 [1	
		vein crosscutting it	18847	5.0	147.7	152.7	Tr	MIL	[[ł	
		-at 120.3-120.6, 1 semi-regular carb vein (400), minor qtz, 5% tourmaline, 20% coarse grain pyrite	18848	5.0	152.7	157.7	Tr	MIL		1	
-		122.0-122.2 2" semi-irregular moderately tonalite intrusion (60°)			I	1	I	i	! !	ı	
		122.2-122.3 1" to 4" semi-irregular moderate tonalite intrusion (60°)			I	ì]	1	1 1	ı	
		123.5-124.2 chlorite rich zone in bands (maybe mafic volcanic zenoliths)			ļ	i	ł	1	i i	- 1	
		124.7-124.9 intensely silicified tonalite intrusion, semi-irregular (40°)				1		1	1	- 1	
		128.4-130.2 intensely silicified zone, probably originally a mafic; greyish			İ	Ì	I	ı		ł	
		white and secutimes slightly pink waxy qts; 10% tourmaline, 1% fine				l	ł	1 :		- 1	
		grain disseminated throughout pyrite, trace cpy; both contacts sharp (35°); increase in pyrite in upper unit near some			l					ı	
		131.9-132.1 1" qtz vein semi-irregular (55°) (carb/qtz)			Į.			l i	1 1	[
		133.1-133.3 1 moderate shear tonalite intrusion (50°) faulted (20°) off with			l	l	i		1 1	1	
		displacement of 'g''		. •			Į.				
		134.6-134.7 moderate shear tonalite intrusion semi-regular (60°)	,		l		l			- J	
		136.0-136.1 1" with moderate shear tonalite intrusion (65°), fractured by carb and qtz stringers with 1% fine grain pyrite; 3% cpy				1					
		15/.0-156.8 weak sheared diorite (well formed plagioclase crystals)				1	•	٠,	i j	}	
		1/5.6-139.0 'a" qtz stringers vein, vein well folded									
		1-0.0-1-4.1 weakly sheared dioirite; at 141.4-141.7 3" to 3" irregular (\$\times 40^0)				1					
		qtz stringers or strongly silicified toalite; with hematite staining (occasionally), carbonate	ŧ								
						l .				- 1	
							L				

		DESCRIPTION	sample	width				A:	SSAYS	
DEF	to	MOTE: All angles are measured with respect to the long core axis.	number	wiath	from	to	Au	Ag	- 1	_
from	1 10	117.2-158.8 DIORITE INTRUSION (con't)				 	OZ/L	02/1	 	
· ·		143.1-144.2 6" strongly silicified, moderate sheared tonalite, both contacts sharp (10-15°), 1% medium grain euhedral pyrite 144.2-144.9 5" moderate to silicified, moderate sheared tonalite, both contacts sharp (85°); at 144.8-144.9' ½" to ½" qtz vein (65°) 148.1 1" mafic volcanic zenolith (65°) diorite hanging wall is vuggy beside it 148.1-148.2 3/4" to ½" qtz vein (65°, some carbonate patches 151.2-151.3 1" qtz/carbonate vein (65°), with 20% chlorite weakly sheared diorite, well formed plagiocalse crystals eat 151.8-152.0' ½ mafic volcanic zenolith (50°) partly replaced by qtz and carbonate -at 154.0-154.3' ½" to 1" irregular qtz/carbonate vein (30-60°) 155.4-155.7 2½" white qtz vein/intensely silicified diorite, upper contact (40°) lower contact (70°); some carbonate, weak hematite staining, minor chlorite, 2% medium grain euhedral pyrite 156.0-156.9 weakly sheared diorite, well formed plagiocalse crystals	•							
158.8	183.4	MAFIC VOLCANIC -upper contact lost in missing core but appears to be increase in pyrite in foot- wall near contact -dark green, fine grain to medium grain, occasional carbonate stringers (< 1/8") at 25-60° -most of zone very massive, occasional weak foliation visible (50°) -most of zone just trace pyrite, trace cpy	18849 18850 18851	4.0 2.0 2.5	157.7 161.7 163.7	161.7 163.7 166.2	Tr Tr	WIL WIL		
		158.8-166.1 moderate sheared mafic with many carbonate and qtz pods and irregular veins and stringers	18852	4.0	166.2	170.2	Tr	0.50		
		161.5-163.2 strongly to intensely silicified mafic 161.5-161.8 strongly silicified 161.8-162.7 strong to intensely silicified; well chl. 5% fine grain euhedral pyrite in chlorite 1% cpy; 5% sphalerite/bismuthinite, abund- and carbonate and chlorite 162.7-163.0 weakly silicified 163.0-163.2 semi-irregular 1½", greyish waxy qtz vein (60°); some carbonate, 3% fine grain py 170.9 ½" qtz/carbonate vein (70°); two grains cpy (2%?)								

a committee ?

Page 7 of 14

		DESCRIPTION	sample	width	from	to		. A:	SSAYS		
DEP	TH	NOTE: All angles are measured with respect to the long core axis.	number	wiatn	11 cm	"	Au	Ag			- .
from	to						oz/t	oz/t		_ 1_	
183.4		171.2-172.7 ½ carbonate/qtz stringer/intensely silicified tonalite? at 10°; hematite stained, 2% cpy; faulted (60°) at 171.7 displaced at ½ sinistral 174.6-174.7 ½ granodiorite intrusion (60°) faulted (55°) by carb filled fractur with slight displacement dextral 175.7-175.9 ½ granodiorite intrusive (30°) STRONGLY SILICIPIED, HASSIVE TO WEAKLY SHEARED CRANODIORITE -with high percentage of distinct well formed plagioclase crystals, occasionally	18853	2.0	181.3	183.3	Tr	MIL			
-		bleached green -contacts sharp upper (25°) lower (45°) 183.4-184.1 strongly silicified 184.1-185.1 weakly silicified with a few thin 51/8" semi-irregular qtz vein -at 184.6-185.1' ½" qtz vein (20°), some carbonate, trace epidote 185.1-185.4 3" mafic volcanic zenolith (like above unit) (65°) 185.4-186.2 intensely silicified granodiorite, some hematite staining, minor carbonate, chlorite, tournaline (5%) greyish-white; 1% cpy, tr py 186.2-187.2 mafic volcanic as above unit but moderate silicified upper contact (65°), lower (15°) both sharp 186.9-188.0 3" qtz/pink carbonate vein (15°); qtz in euhedral crystals, carb	18854 18855 18856 18857	3.5 1.5 4.0 1.0	183.3 186.8 188.3 192.3	186.8 188.3 192.3 193.3	Tr Tr	HIL HIL HIL 0.54			
		186.9-188.0 188.8-190.8 188.8-190.8 189.8-190.8 189.8-190.8 189.8-190.8 189.8-190.8 189.8-190.8 189.8-190.8 189.8-190.8 189.8-191.1 189.8-191.1 189.8-191.2 189.8-191.2 189.8-191.3 189.8-190.8; with 3% pyrite, minor tournaline, chlorite as large pods (1" thick, 3" long) filling fractures -at 192.0-192.4' %" to ½" qtz stringer some carbonate, partly filled with chlorite (50%) -at 192.6-193.3' ½" to 1/8" carbonate/qtz/chlorite semi-irregular (c20°); 60% chlorite, minor tournaline, 20% very coarse grain euhedral pyrite cubes									•

Participa .	DESCRIPTION	sample	width	from	to		A :	SSAYS	
from to	NOTE: All angles are measured with respect to the long core axis.	number	wigai	''		Au oz/t	Ag oz/t		
193.2 219.7	WEAKLY TO MODERATELY SHEARED MAPIC VOLCANIC, STRONGLY CARBONATIZED -medium grain, dark green, well strongly carbonatized, many fine grains of carb. -occasional carbonate or qtz stringers or pods (5 ½") and occasional to irregular vein -trace pyrite, more locally 194.7-194.8 ½" granodiorite intrusion (60°) 199.4-200.1 ½" irregular granodiorite intrusion (x 5-20°) 200.8-201.2 zone is bleached around ½" carbonate/qtz vein (75°) (from 200.8-200.203.2-203.3 1" granodiorite intrusion (50°), partly replaced by carbonate and quartz, trace cpy 207.0-209.0 .5' of core missing 209.0-219.0 2' of core missing; especially in a few places listed below, broken core -at 209.0-210.0' core broken missing and ground in pieces -at 217.1-217.1' broken and missing core, 1-2" pieces -at 217.6-217.9' broken and missing core, ½" pieces -at 217.6-217.9' broken and missing core, ½" pieces -at 217.9-218.7' broken and missing core, ½" pieces -at 217.9-218.7' broken and missing core, ½" pieces -at 217.9-218.7' broken and missing core, ½" pieces -at 217.9-218.7' broken and missing core, ½" pieces -at 217.9-218.7' broken and missing core, ½" pieces -at 217.9-218.7' broken and missing core, ½" pieces -at 217.9-218.7' broken and missing core, ½" pieces -at 217.9-218.7' broken and missing core, ½" pieces -at 217.9-218.7' broken and missing core, ½" pieces -at 217.9-218.7' broken and missing core, ½" pieces -at 217.9-218.7' broken and missing core, ½" pieces -at 217.9-218.7' broken and missing core, ½" pieces -at 217.9-218.7' broken and missing core, ½" pieces -at 217.9-218.7' broken and missing core, ½" pieces -at 217.9-218.7' broken and missing core, ½" pieces -at 217.9-218.4' broken pieces have 20% tourmaline, 3% fine grain to medium grain euhedral pyrite, 1% cpy -bottom contact (65°)	18859 18860 9)	2.0 2.0 5.0	193.3 210.0 215.0	195.3 212.0 220.0	Tx	NIL		

Committee of the commit

海州市 人名英格兰斯斯 医外外外的 人名

a said and the said said said

	0.50	*	DESCRIPTION	sample	width	from	to		A	SSAYS			
-	DEP from	to	NOTE: All angles are measured with respect to the long core axis.	number	wide			Au oz/t	Ag oz/t	Cu ppb	Pb ppm	Zn ppm	•
-	219.7	235.2	MUDERAILLY SHEARED, STRONGLY CARBONATED MAFIC VOLCANIC -fine grain to medium grain, dark green, moderately sheared, foliation (55°) -many carbonate stringers and pods occasionally with qtz as well, 1% fine grain to medium grain euhedral pyrite, more locally										•
			219.9-220.0 1/8" to \(\frac{1}{2} \) silicified granodiorite intrusion (65°), irregular 223.1-223.3 1" strongly silicified tonalite (not granodiorite) (65°), trace cpy 225.7-225.9 (once tonalite intrusion) 1" carbonate vain (45°), minor chlorite and qtz, 3% medium grain subserval cubes pyrite 226.8-226.9 (once tonalite intrusion) \(\frac{1}{2} \) carbonate vain (50°), minor chlorite 227.1-227.2 \(\frac{1}{2} \) tonalite intrusion (55°), semi-regular, being replaced by carb. 228.2-228.3 \(\frac{1}{2} \) irregular tonalite intrusion (55°) being replaced by carb and some quartz	18861	2.0	233.9	235.9	Tr	Mīl.	·			1
	-		230.8 ½" carbonate/qtz vein (70°) 234.4-234.7 zone is vuggy 1/12-1/8" wide vags (carb dissolved away?); some carb still there, 5% medium grain eubedral pyrite, 7% cpy										i
	235.2	306.0	STRONGLY SHEARED, MODERATELY TO STRONGLY SILICIFIED MAFIC VOLCANIC -with occasional waird beige-brown mineral -moderate sericite with patches of strong sericite, dark green, fine grain, foliation (55°), with abundant carbonate pods and irregular stringers with qtz -weakly carbonatized except where strong sericita or silica (then no carb) -32 pyrite over total zone, 1-22 fine grain to medium grain throughout most of unit; locally rick (also locally barren), minor cpy, rich locally	18862 18863 18864 18865 18866 18867	5.0 5.0 2.5 2.5 3.0		241.9 246.9 249.4 251.9 254.9	Ir Ir Ir Ir	0.92 1.04 0.88 0.92 NIL NIL	348	253	166	,
			235.2-235.4 1 th irregular fractured greyish qtz vein (65 ⁰), 5% fine grain to medium grain euhedral pyrite, 1% cpy, wallrock enrich in pyrite 235.9-236.3 with 30% pyrite, fine grain in band, subparallel to foliation, with carbonate between bands; is it replacing chlorite?, with 5% cpy mostly around carbonate stringers and blebs	18868 18869 18870 18871 18872	2.5 5.0 5.0 2.0	254.9 257.9 260.4 265.4 270.4	260.4 265.4 270.4 272.4	Tr Tr	HII. D.80 D.82 HII. HII.	484	215	150	•
			245.0-249.3 moderately to strongly sericitized, light due to sericite (bluish-gray-green) -at 248.7-249.3' intensely sericitized 249.8-250.5 2" chlorite/carbonate/sericite/qtz vein (15°), 3% fine grain to	18873 18874 18875	2.0	272.4 275.9 277.9	275.9 277.9 282.9	Tr	NIL 0.54 0.82	246	178	100	
			medium grain euhedral pyrite, trace cpy, trace pyrite; minor tourma- line, 10% sphalerite? 250.7-252.0 5% pyrite over zone as mostly fine grain in short stringers following foliation; zone may also contain slightly more carbonate										
			the state of the s										

			DESCRIPTION	sample	width	from	to		A	SSAYS		_
from	to	4	NOTE: All angles are measured with respect to the long core axis.	number	. WIGCH	1700		Am DZ/t	Ag oz/t			
11000	1.0	235.2-306.0 STR	ONGLY SHEARED, MODERATELY-STRONGLY SILICIFIED MAFIC VOLCANIC (con't)							$\vdash \vdash$		
			10% pyrite over zone as medium grain euhedral cubes disseminated			ł						ĺ
		254.9-257.9	through or very fine grain to fine grain pyrite in bands in chlorite			İ	ļ				4 1	
			near or in carbonate pods/irregular veins				· ·			1 !	1 1	
,			-at 256.7' 'k" carbonate vein has been faulted in a few places (65°					i			1 1	1
	Ì	257 8_258 6	to ½" movement dextral) (40° - ½" movement dextral) 'strongly to intensely sericitized zone with sharp contacts (55°)				l				1 1	ĺ
			(same as 257.8-258.6)				i			1 1	1 1	
		260.8-261.0	3/4" well by greyish qtz (40°), carbonate filling in spaces around							1 1	l I	ĺ
-	ļ	1	qtz, increase in pyrite and trace cpy in wallrock surrounding near				l				i i	ĺ
		260 7-263 7	vein with 10% of medium grain brown mineral -sphalerite?, medium grain		'		İ			1 1		ĺ
	1	200:,-203:,	with 2% pyrite, trace cpy, associated with chlorite in mafic often			}	1	1		!	1	ĺ
			in groups in bands following foliation			i	·			1 '	1 /	
		1	-at 262.8-263.8' silicified moderate sheared tonalite intrusion			!				1	1 1	l
•	1	264 3-265 0	(55°), both contact sharp (55°); may be just silicified mafic same as above, but contacts not as sharp and at 30°			ĺ		l i		1		İ
•	·		light coloured, moderately to strongly sericitized, light blue green			•		1		1	1 1	
			gug - sericite causing lightness, perhaps strongly altered tonalite			•						
		2/0 / 270 5	often hematite			l	}	1 1			l 1	l
•			strongly sericitized zone is 50% carbonatized, 10% qtz, 30% chlorite, sericite; with 10%				1			i i	1 1	
		1 2/0.3-2/2./	fine grain euhedral pyrite in bands in chlorite bands minor tourms-			1	1			1	1 1	l
	1		line, trace cpy			1	1	1		1	li	
	İ	271.7-272.0	intensely silic (as large grains) zone with abundant sericite and			Ì	I	i		1	1 1	l
	1	272.0-276.1	carbonate, 5% pyrite as medium grain euhedrals bleached looking zone, to pale green-grey, moderate to strongly					1		'	1 1	İ
	l		ericitized				l			1	l i	i
•	1	276.1-277.4	intensely silic zone, white grainy qtz with chlorite strips, 2%				1			'	1 1	•
		277 4 277 0	medium grain euhedral pyrite, trace cpy strongly silic to moderately sheared				1				1	
	l.	278.9-279.8	strongly silic to moderately sheared strongly silic tonalite? (pretty sure); both contacts sharp at 60°				1				i 1	i
			with 50% sphalerite? - altered biotite?, medium grain								l l	i
	l	280.3-281.5	strongly to intensely silic mafic - white grainy qtz, 1% fine grain				1				/ I	İ
•		203 5 200 0	to medium grain pyrite, trace cpy				l				1 1	1
-1	1	281.5-282.0	intense silic tonalite intrusion, both contacts sharp, upper (65°) bottom (70°)				•				/ I	
	ŀ		,,, ,			, ·	}			1		ļ
		1	į	!	!	I	Ŧ	1		,	, ,	*

The transfer of the second of

The second and the second second second second second second second second second second second second second

DEP	Тн	DESCRIPTION	sample	width	from	to		A	SSAYS			
from	to	NOTE: All angles are measured with respect to the long core axis	. number				Au OS/t	Ag og/t	Cu ppb	Pb ppm	Zn pp=	•
		235.2-306.0 STRONGLY SHEARED, MODERATELY STRONGLY SILICIFIED MAFIC VOLCANIC (con't)										
		282.4-282.8 intense silic tonalite intrusive, both contacts sharp, upper (55°), bottom (65°); trace cpy, light chocolate brown mineral	18876	4.0	282.9	286.9	TT.	0.90				
		283.5-290.0 silic tonslite, moderate to strongly sheared (with qtz eyes); upper contact sharp (40°), bottom (60° sharp); 1-2% fine grain to medium		4.0	286.9	290.9	TE,	1.42				
		grain euhedral pyrite, trace cpy	18878	4.0	290.9	294.9	TT.	0.82	152	179	90	
		286.0-286.4 with a few mafic zenoliths 1" in length (1" wide) 286.5-286.8 1" semi-regular chlorite/qtz/carbonate vein (35°), 15%	18879	5.0	294.9	299.9	TE	0.74	245	204	111	
-		fine grain pyrite in stringers, wisps irregular in vei increase in pyrite medium grain to coarse grain in	18880	5.0	299.9	304.9	Tr.	0.66	99	177	98	
		surrounding wallrock 289.3-289.6 1" irregular chlorite/qtz/carbonate vein (55°), trace pyrite, with substantial increase in surrounding wall- rock. 7% over .3° zone										,
		290.7-290.8 11 silic tonalite intrusion, moderate to strong shearing (650)	1		ł	Į	1				l	
•		290.9-291.2 3" silic tonalite intrusion, moderate to strong shearing (65") 291.2-291.8 very strongly sheared mafic, well carbonatized and qtz and sericite rich. 5% medium grain euhedral pyrite										í
	i e	291.8-292.0 1" silic tonslite intrusion, moderate to strong shearing (65°)	1	1	!	j	1	•	l i			
		292.0-292.3 intensely carbonatized, mafic, 1% pyrite (medium grain euhedral)	1		·	ļ	1				l	,
		292.3-293.6 strong sheared tonalite with strong sericite, both contacts sharp (55°); at 292.5' 'A" white qtz veim (75°), 1% cpy, minor tourmaline							•			,
		293.6-295.4 strongly sericitized mafic with irregular carbonate at 7% medium grain subsdral pyrite over zone, 1% cpy	1	1	1	i					ŀ	
-		295.4-296.2 strongly silicified and sericitized tonalite intrusion, both contact sharp upper (65°) bottom (70°), 3% medium grain pyrite, 1% cpy -at 295.4-295.5' % carbonate stringer filled with pyrite, minor	터									1
		tourneline (60°); pyrite makes up 75% of stringers	1	i		1					1]	•
		297.0-297.4 34" strongly silicified tonalite intrusion (70")	1	1							l .	
		297.4-297.5 1" irregular carbonate vein (£70°) with 20% chlorite, 5% medium graeuhedral pyrite	14									
		297.5 bleached to pale bluish green grey, strong sericite mafic, with trapprite with strongly sheared and silic tonalite intrusions at:	1									
	ł	297.7-298.2 (70°); 298.4-298.6 (70°); 299.4-300.2 difficult to se contacts as gradual (some so strongly altered difficult to tall	1 .	1								
	-	mafic or tonalite) (*65°); 301.0-301.2 (*65°); 302.3-303.1 (65°); 304.5-305.8 (65)										;
			1									i

		DESCRIPTION	sample	width	from	to			SSAYS		
DEP	to	NOTE: All angles are measured with respect to the long core axis		Midth	Trus	100	Au oz/t	Ag oz/t	Cu ppb		Za
306.0	333.1	STRONGLY SERICITE, MODERATE TO STRONG SILICIC, STRONG SHEARED MAFIC -bleached to creamy pale green grey; occasional dark chlorite bands are only	18881	5.0	304.9	309.9	Tr	NIL	144	170	102
-		diorite minerals (some chlorite bleached) -with abundant carbonate stringer and pods; irregular -foliation at 65°	18882	4.5	309.9	314.4	Tr	0.98			
		-1% pyrite found locally usually with carbonate stringers and pods	18883	5.5	314.4	319.9	TE	0.82			
		306.8-307.6 very bleached zone (yellow green) but all trace of dark colours green with 1% cpy; around 3/4" white qtz vein (60°) at 307.2-307.4	18884	4.5	319.9	324.4	TE	0.80			
*		308.7-308.8 ½ greyish qtz vein (60°) with 10% tonalite 309.0-309.4 zone is well carbonate and has qtz pools; with 20% chlorite, 5%	18885	4.0	324.4	328.4	TE	0.60			
•		tourmaline, 5% cpy with qtz, 5% fine grain pyrite as bands with a few coarse grain of pyrite	18886	1.5	328.4	329.9	Tr	0.78			
·		314.4-314.5 1" int. silicic tonalite intrusion (65°) 321.0-329.4 strongly to intensely silic mafic with whitish grey waxy qtz, 1% coarse grain pyrite, trace cpy -st 324.6-325.3 with 20% chlorite, 10% tournaline -st 326.5-327.7 possible strongly sheared tonalite intrusion; both contacts at 50° -st 328.8-329.3' %" chlorite/qtz/tournaline vien; semi-irregular (329.4-330.6 probable; strongly sheared, strongly sericitic tonalite inclusion; both contacts sharp (45°), with irregular carbonate staining (up	25)	5.0	329.9	334.9	Tr	0.90	117	196	87
:		to 1/n); with 1% medium grain euhedral pyrite, trace cpy 332.5-333.0 strongly silicified mafic zone with 20% chlorite minor tourmaline, 1/2 cpy, trace pyrite									
333.1	341.6	STRONGLY SHEARED TOWALITE INTRUSION -with strong sericite, upper contact (60°); lower contact (60°)	18888	4.5	334.9	339.4	Tr	MIL			
		333.1-335.2 only probable intrusion 335.2 intrusion is sure 335.7-341.6 strongly to intensely silicified intrusion	18889	5.0	339.4	344.4	Tr	0.94			
		340.8-341.1 3/4" carbonate/qtz vein (35°) with 15% tourmaline 341.5-341.6 3/4" qtz vein (50°) which has bleached surrounding wallrock									

ner o Marketinis i i i Linguisti



		DESCRIPTION	sample	width	from	to		AS	SAYS			
from	to	MOTE: All angles are measured with respect to the long core axis.	number	#.cc.			Au Oz/t	Ag oz/t	Cu	Pb	Zn	•
341.6		WEAKLY TO MODERATELY SHEARED MAFIC VOLCANICweakly sheraed sections are porphyritic with 20% pheno's mostly plagicclase	18890	2.5	344.4	346.9		0.94				-
		-occasionally strongly sharaed listed below; with occasional carbonate or qtz stringers or pods -sharp upper contact at 55°, lower contact sharp at (50°), trace pyrite, trace cp	18891	5.0	346.9	351.9	TT	0.88				
		-foliation at 60°	18892	5.0	351.9	356.9	TT	1.12	140	190	86	
		344.5-344.7 1° moderately sharaed tonalite intrusion (70°) 344.7-346.8 mafic is bleached pale green through zone	18893	4.0	356.9	360.9	Tr	1.06	144	180	75	Ì
-		-at 345.0-345.2' 2 ^m moderately sheread tonalite intrusion at 70 ^o -at 345.2-345.8' with many carbonate stringers and pods, abundant sericite, 5% medium grain euhedral; pyrite through zone, mostly in	18894	3.5	365.0	368.5	Tr	1.26				•
		qtz pods 346.8-347.1 3" moderate to strongly silicic, moderately sheraed tonalite intru- sion at 60°				·						•
•		347.1-351.5 lamprophyre dyke; strongly shermed with dark grains of chlorite (now in semi-bands) with lots of qtz in between foliation, with minor tournaline				:					ì	,
		348.4-349.3 moderate to strong silicic, moderately shapped tonelite intrusion at 60°	-									
•		349.4-349.5 3/4" strong silicic, moderately sheared tonalite intru- sion at 65										•
		349.8-349.9 lim intensely silicified, moderately sheared tonalite intrusion/qtz vein at 70°, 2% medium grain euhedral py										Ţ
·		350.1-351.0 moderate to strong silicic, moderately sheared tonelite intrusion (upper sharp contact at 65°); (lower sharp contact at 40°); 1% medium grain subsdral pyrite										
-		351.5-354.0 very porphyritic (weakly sheared) 354.0-354.1 1" white qtz vein at 65° semi-regular										-
		354.1-361.8 strongly silicified, moderately sheared tonalite inclusions; with 2% medium grain euhedral pyrite, occasional fractures filled with										•
		chlorite, trace cpy; both contacts sharp, upper (65°), lower (60°) -at 357.6-358.1' intensely silicified greeny-white waxy qtz			,							
		361.8-365.2 good porphyritic texture (weakly sheared) 365.2-368.6 lamprophyre dyke; moderately sheared, strongly silicified, medium		-		,						
		grain with dark green grains of chlorite (large) -at 372.5-372.6' well sericite rich zones; 20% tourmeline, 1% medium grain ewhedral pyrite, trace cpy						İ				i.
		368.6-372.6 as 361.8-365.2							1			ŀ

RESOURCES LIMITED	A Company of the American	· · · · · · · · · · · · · · · · · · ·	THE PROPERTY OF THE PARTY OF TH	Ser Sermen
RESOURCES LIMITED			**	

-	T-0	DESCRIPTION	sample	width	from	to		Ą	SAYS	
DEP	to	NOTE: All angles are measured with respect to the long core axis.	number	w.ac.			Au oz/t	Ag oz/t		
72.6	388.8	MYLONITIC TONALITE -white strongly silic tonalite with large grains of qtz, ½ to ½" rounded -strongly sheared -all other fabric gone except for foliation and qtz eyes; 1% pyrite found locally	18895 18896	5.0 5.0	372.1 377.1	377.1 382.1	1	1.12		
		-upper contact sharp at 50°; lower semi-sharp at 60°; trace pyrite with very occasional carbonate pods 385.5-387.9 strongly sericitized, changes mylonite from clear to white	18897 18898	5.0 2.5	382.1 387.1	387.1 389.6	ł	1.10		
388.8	400.0	MAFIC VOLCANIC - WEAKLY SHEARED -foliaiton % 60° -with frequent irregular qtz stringers and pods -1% pyrite as medium grain euhedral 396.1-396.3 1" carbonate/qtz/sericite vein at 40° with 5% fine grain pyrite in bands 396.6-397.3 strong silicified moderate sheared tonalite inclusion at 60° with a 1" mefic zone 397.9-399.2 strong silicified moderate sheared tonalite inclusion at 60°	100,0	2.5	307.1	369.0		1.00		
	400.0	399.7-399.8 1" semi-regular carbonate/qtz vein at 60° END OF HOLE					•			
	•		•		·	·				

_

ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES
OFFICE

MAY 19 1988

RECEIVED

RESOURCES LIMITED

ASSAY SUMMARIES

REBOU	RCES LIM	ITED	· r							· · · · · · ·			Re-Assayed	,					
DEILL MOLE	F001	AGE	SAMPLE		SAYI		:	· VAL	UE	RE	PEREI	N C E:	Sample	l	ASSAY	ED I	ľ:	VAI	LUE
FUHER	from	to	NUMBER	· 350	sw	NR.	THR	Au oz/t	Ag oz/t	Drill Los	Sample Book	Absay Result	NUMBER	100	sv	12	THR	Au oz/t	48 0
438-87-4	25.6	31.6	18815				x	Trace	Nil	×					1				
	31.6	34.6	18816	1	1		x I	Trace	NII	×		l l		1	1			ł	
	34.6	37.6	18817	i	l		x	Trace	Nil	x	1			I	l	ł	1	•	
	37.6	39.6	18818		1	1		Trace	N11	x		1		ł	1	1	1	1	١.
	39.6	41.6	18819	1			X.	Trace	N11	x	1	l		1	1				1
	51.0	57.0	18820	1		ı	x	Trace	Nil	×	•			ł		l			1
	57.7	61.7	18821	1	1	1	x ·	Trace	Nil	l x	· .				1	l	1	1	1
	65.5	67.5	18822	1	l		x	Trace	N1l	x			!	1	ł	ı			
	67.5	68.0	18823	1			X	Trace	NII	l x	1	Ì			1				ł
	69.0	74.0	18824				x	Trace	1.22	x	l	i	1	1	1			1	1
	74.0	77.5	18825		1		x	Trace	Nil	l x	ľ	l		1	1	Ì	1	I	1.
•	77.5	79.0	18826	ı	١.		X	Trace	N11	x				1	1	l	1	ł	1
	79.0	81.0	18827	1	1		ĸ	Trace	N11	x				1	l	ł	ľ	ł	1
	92.0	94.0	18828	ı	1	1.	k	Trace	NII	x	1			ł	İ	ı	1	1	1
	94.0	96.0	18829	1	1	1	k	Trace	N11	x			11	•	1	1	•	l .	•
	96.0	98.0	18830				k '	Trace	N11	x		ļ		1	1	1	1	ı	1
	101.2	103.2	18831	-			k	Trace	N11	x		į .	11	1.	1			1	1
	103.2	105.7	18832				k	Trace	N11	x		l	Ħ		ı	1			1
	105.7	107.2	18833	1		1.	k	Trace	Mil	x		l		1	ı	1		1	
	107.2	109.0	18834		1		x	Trace	Nil	x	1				1	10	4 W	Jann	1
	109.0	111.0	18835	1			x	Trace	Nil	×		l	I	1	1:_		1"	F	1
	111.0	115.0	18836	1	1		x	Trace	N£1	x			fra	w	4			1 .	1
	115.0	117.0	18837				x .	Trace	Nil	x				1		1			1
	117.0	120.0	18838	- [x	Trace	N11	x]	•	1			1	1	
	120.0	121.0	18839		1		x	Trace	NAL	I x				1			1.	1	1
	121.0	125.0	18840	1			l _x	Trace	W11	l v				1		1		1	1

Months of RESOURCES LIMITED

			+	-		_								*	سنبي				
TLL HOLE	POO	TAGE	SAMPLE	Cus	SATE tom	D 1	ť:	VAL	UE	REP	ERE	N C E:	SAMLE	Ass	ASSAI AVEES	(Onta	ľ: Lio)	VAI	LVE
WUHER	from	to	NUMBER	BW	SW	77	THR	Au oz/t	Ag oz/t	Drill Los	Sample Bok	Absey Result	NUNER	300	SW	*		As oz/t	Ag oz/
50 07 4	125.0	128.2	18841	1	l				}	_	1	l			l	1	1		ł
38-87-4			18842	Ì		1	X	Trace	.	X	1	1	H	1	1		1	ŧ	ł
<u> </u>	128.2	130.7		4	1	1	X	Trace		X	1	l .		1	ł	1	1	1	i
*	130.7	132.7	18843 18844	1		1	X	Trace	Nil	X	1		H	1		ł	1	l .	1
	132.7	137.7			1	ı	X	Trace	N11	X	1	į		1	1	I	ł	Į.	1
	137.7	142.7	18845	ı	1	1	X	Trace	N11	X		i		1	1	1	1	ı	
	142.7	147.7	18846	1	ı	I	X	Trace	N11	X		i	li	1	1	1	١.	1	1
	147.7	152.7	18847		1	1	X	Trace	Nil	X		<u> </u>	1	ł	ł	I	1		l
	152.7	157.7	18848	1	ı	1	X	Trace	N11	X	i	I]]	ł	1	1		1	1
	157.7 161.7	161.7 163.7	18849 18850	1	1		X	Trace	N11 N11	X	· .		11	1	1	1	I	1.	
•		166.2	18851		1	1	X	Trace		X	1	ł	H	i	1	1	l l	1	1 .
	163.7	170.2		.]	1	1	X	Trace	Nil	X	I	I	H	1	1	ŧ	1 .		
	166.2	183.3	18852 18853	ı	1	ŀ	X	Trace	0.50	X	1	ł	11	1	1	Į.	1	•	
	181.3	186.8		- 1	1	1	X	Trace	N11	X	1	ł	11	ı	1	1	1		1
•	183.3		18854	1		1	X	Trace	N11	X	I .		ii	ı		ı	1		1
•	186.8 188.3	188.3 192.3	18855 18856	1	1	1	X	Trace	N11 N11	X	1		H	ł	l	1	1	Į.	1
-	192.3	193.3	18857	1	1	1	X	Trace	0.54	X		1	15	1		1	1		1
•	192.3	195.3	18858	1		1	X	Trace Trace	N11	x	1	1	Ħ	1		1	1		1
	210.0	212.0	18859	1	1	1	x	Trace	NII	Î	I	ł	ii ii	1 .	1	1	1		•
	215.0	220.0	18860	1	1	1	Î	TRace	N11	x	1			1	1	1	1		I
•	233.9	235.9	18861	1	1		î	Trace	Nil	x	l ·	1	11	1	1	1	1	l	l .
	235.9	236.9	18862		1	1	Î	Trace	0.92	â			11 .		1	1	1	1	1
	236.9	241.9	18863		l	1	Î	Trace	1.04	l â		i	1		1	1	1	1	
	241.9	241.9	18864	- 1	1	1	Î	Trace	0.88	- I â	ł	1	11	1	1	1	4		1
	246.9	249.4	18865	1	1	ł	Î	Trace	0.92	Î		Ì		1	1		1		1
• *	249.4	251.9	18866		ı	ł	Î	Trace	N11	Ī		1	18866	ı	ı	1	ł	.002	0.04
		254.9	18867	1	1		Î	Trace	NII	ΙĒ	1	1	10000		1	1	1	12	10.04
	251.9		18868	1	1	1	x	Trace	Nil	Ī		1	H			1	1	Į.	1
	254.9	257.9			1	Ĭ	Î	Trace	N±1	Î	L	1	11	1		1	1	1	1
	257.9	260.4	18869	- 1	ı	1	Î	Trace	0.82	Ī	1	I.	18870	ı	1	1	1	.001	.03
	260.4	265.4	18870	1			x	Trace	Nil	x	1			1		1	1	i	
	265.4	270.4	18871		1		Î	Trace	Nil	Î	I	ł		1	1	•	1	1	ł
	270.4	272.4	18872	1		1	Î	Trace	N11	Ιŝ	1	1	H	ł	1		1	1 -	1
ŧ	272.4	275.9	18873	- 1		1	Î	Trace	0.54	İÂ	1		11	ł	ı	1	1	1	1
1	275.9	277.9	18874	1	ı	1	Î	Trace	0.82	l â	I	1	18875	1	i	1	1	.002	.03
	277.9	282.9	18875	I	1	1	x	TRace	0.90	Î	I	1	11		1	ı	1	1	
	282.9	286.9	18876	1	1		12	Trace	1.42	1 â	I	1.			1	•	ı	E .	1
i	286.9	290.9	18877	1	1	1	1^	Trace	1 ****	1 ^ -		1	11	f	1	1	ı	ł	1
	ī			1	1	1.	1	1	1.	1		F .	11	ŀ	- [1	1	ŧ	1
	1	•		•	•	ı,	1	•	T .	Ţ	•	•	**	•	•	•	•	₹	▼ '

ASSAY SUMMARIES

RESOUR	CES LIN			1			1					Re-Assayed	t-				
TILL BOLD	FOO	TAGE	SAMPLE		SSAYE stom	D W: F.A.	VAI	. U E	REI	EREI	CE:	SAMPLE	Ass	ASSAY ET	E:	VAI	LUE
MUHER	from	to	NUMBER	251	sw	XR TH	Au oz/t	Ag oz/t	Drill Log	Sample Book	Assay Result	NUMBER	W		12 134		Ag o
438-87-4	290.9	294.9	18878			x	Trace	0.82	x			18878				.001	.00
	294.9	299.9	18879	1	1	x	Trace	0.74	.x	I I	ŀ	18879	ı		- 1	.002	.02
	299.9	304.9	18880	1	i	X	Trace	0.66	X	1		18880	1	1 1		.001	.02
	304.9	309.9	18881	1	I	X		Hil	X .	1		18881	I	1 1	- 1	.002	.01
	309.9	314.4	18882	1	1	11.		0.98	X				l	1 1	ı		1
	314.4	319.9	18883	1	1	X	Trace	0.82	X				1	1 1	1	1	1 .
	319.9	324.4	18884	1	i	X	Trace	0.80	X					1 1		1	Ĭ
	324.4	328.4	18885		1	X	Trace	0.60	X	.1		al	1	1 1		ł	1
	328.4 329.9	329.9 334.9	18886 18887	ı	1	l lă	Trace	0.78 0.90	X.			11		1 1	l l		1 .
	334.9	339.4	18888	1	1		Trace	N11	X			18887	ı	1 1	1	001	.01
	339.4	344.4	18889	1	i	2	Trace	0.94	Î	1		! [1	1 1	J		
	344.4	346.9	18890	ı	1	3	Trace	0.94	Î			#	1		- 1		
	346.9	351.9	18891	1			Trace	0.88	Ιī	1		H		1 1	- 1		1
	351.9	356.9	18892	1	l	1 1 2	Trace	1.12	Ī	•	l	18892	1	1 1	1	.001	0.
	356.9	360.9	18893	1	1	l x	Trace	1.26	Ī		ŀ	18893	1	1 1	1	.001	.0
	365.0	368.5	18894	1		l x	Trace	1.26	X	1	i		İ	1 1	1		
•	372.1	377.1	18895	1	1.	x		1.12	X		•		1	1 1			ł
	377.1	382.1	18896		1	X		1.12	X	1		<u> </u>	1	1 1	- 1		1
	382.1	387.1	18897	1		X		1.10	X		1	11	1	1 1	- 1		1
	387.1	389.6	18898		1	×	Trace	1.08	×	1				1 1			1
	1		and the state of	1	1	1 1		i .	ŀ			H		1. 1	- 1	1	1
	1	1		ı	1		1		.1		I	H	1	1 1	1	1	ł
				1	1	1 1	I .					H	1			. 📳	1
	l ·	:		1	1	1 1	1				l		1	1 1		1	1
•	l	,41			1	1 1	1		1				1 -	1 1		t	ł
	1		1			1 1	l .			1		1	1	1. 1	ı	ı	1
					1	1 1	•			1		11				1	-1
				1		1 1			1	1	į	11		1 1		1	1
				1					1		ì	11				•	I
	ł	1	1	ł	I					- 1		11	1	1 1	- 1		1
	·					1 1		i ·		1		11	1	1 1			1
			•	1	ł	1 1		1		ł	l		1	1 1	1	1	1
	1		1	1	1	1 1				1]	11	1	1 1		- 1	1
	1			1	1	1 1	I]]		11	1		1	1	1
	1	I	t	ł	1	1 1	•	1		I		11	I		ı		I
	1			ł	1	1 1	1 .	1 / 1 mm /	1		1	H	I	1	•	ı	i

P.O. BOX 143, 1 FIRST CANADIAN PLACE, TORONTO, CANADA M6X1C7 TELEPHONE: (416) 362-6683 TELEX: 06-217766

Property: SEIRE RIVER Location: 112W, 8+10N Co-ordinates:

Claim: K-395701

Section: 12+00, Grid #2 Length: 293

Elevation: 345° Azimuth: 345°

NOLE: 438-87-5 Core size: BQ

Assayed By: Custom F.A. Dip Tests: 293.0' -42" Started: Sept. 14/87 Completed: Sept. 16/87

_		DRILL L	06 Elevation: Azimuth: 345° Azimuth: 345°	Dip: -45°		Comple Logged	ted: S	ept. I <mark>ry</mark> St	16/8/		
	DEP	ידע	DESCRIPTION	sample	width	from	to		A:	SAYS	
-	from	to	NOTE: All angles are measured with respect to the long core axis.	number		.,		Au oz/t	Ag oz/t		
	0.0	15.2	CASING 4.8-15.2 granite and tonalite boulders					-			
•	15.2	23.3	MODERATELY SHEARED TONALITEmoderate hematite stained, moderate to strongly silicified, with many irregular qtz and carbonate pods and stringers -zone is weathered and rusty especially towards top of zone till 25.2' -1% medium grain euhedral cubes of pyrite -at 15.2' zone starts with an 1/8" tourmaline bands (50°)	18899 18900 4837	3.1 1.0 5.0	15.2 18.3 19.3	18.3 19.3 24.3	Ťr	WIL WIL		
			15.7-16.3 1" semi-regular pink hematite stained qtz vein (10°) 18.6-19.1 1½" irregular white qtz vein (10w angle, never crosses core), 20% chlorite, 10% carbonate, minor tourmaline, slightly hematite stained wallrock is slightly enriched in coarse grain pyrite 19.2-23.3 strongly silicified zone								
	23.3	81.9	MAFIC VOLCANIC -dark green-grey, fine grain to medium grain, often porphyritic with up to 35% plagioclase and other crystals -many irregular carbonate stringers and pods and an occasional qtz stringers -sharp and regular upper contact at 55°, foliation at approx. 40° -17 medium grain euhedral cubes of pyrite found locally	4838 4839 4840	2.5 2.5 2.0	24.3 26.8 29.3	29.3	Ťx	NIL NIL		
		•	23.3-27.0 strongly silicified mafic -at 25.1-25.2' intensely silicified tonalite intrusion at 75°; moderate hematite stained, with minor carbonate -at 26.6-26.8' 1" carbonate/qtz vein at 45° 27.0-29.0 DIORITE DYKE; fine grain to medium grain matrix with large phenocrysts of blue rounded cordierite(?) and rounded white qtz eyes -moderate to strongly sheared, strongly silicified -3% medium grain to coarse grain cubes of pyrite occasionaly through zone			·					

ONTARIO GEOLOGICAL SURVEY ASSESSMENT FILES OFFICE

MAY 19 1988

RECEIVED

DEP	Ти	DESCRIPTION	sample	width	from	to		A	SSAYS			
from	to	NOTE: All angles are measured with respect to the long core axis.	number				Au Oz/t	Ag os/t				•
		23.3-81.9 MAFIC VOLCANIC (con't)	1								_	<u>.</u>
			1			i .	Ī		ł	1 /		
		27.0-29.0 (con't)	1			l	_			1 /		
	•	-2% cpy filling a fracture, minor tourmaline -at 28.7-28.8° ½° qtz stringer at 50°; with minor tourmaline	4841	2.5	49.2	51.7	Tr	MIL	l	} /		_
		29.0-29.1 intensely silicified mafic, with white grainy qtz, 5% pyrite	4842	1.0	57.8	58.8	Tr	MIL	ļ	1 /		ì
	1	29.5 4 intensely silicified tonalite intrusion at 65°	1		77.0		**					
		30.3-30.4 ½ intensely silicified tonalite intrusion at 75°	4843	2.5	64.5	67.0	Tr	MIL	ŀ			1 - 2
	ł	35.2 intensely silicified tonalite intrusion at 550							Ī		· ·	
']	35.8 ½ intensely silicified tonalite intrusion at 80° 36.4-36.5 ½ white qtz stringer at 40°	4844	1.5	67.0	68.5	II	RIT	l			Ĵ
,		37.2-37.5 tonalite intrusion, moderately sheared, moderate to strongly silicific	4845	1.0	72.5	73.5	Tx	MIL.	ľ	1 /		•
		both contacts sharp and regular, upper at 70° and lower at 40°	7	1	'*	1 ''''				1 1		•
	i	37.7-38.1 tonalite intrusion, moderately sheared, strongly silicified; both				Ĭ	1			1		' (
	1	contacts sharp and regular, upper at 65°, lower at 55°				1						
	l	39.3-39.4 4" irregular, strongly silicified, tonalite intrusion at approx 550	<u> </u>			1						ı
		moderate hematite stained, some carbonate replacement, trace py, trace cpy	}			ŧ				i /		
	<u> </u>	39.5 4 irregular, strongly silicified tonalite intrusion at approx 55°,				l				1 /		
	l	faulted at 30° with displacement of approx 12"								1 /		:
	1	40.0-40.2 1 semi-regular strongly silicified tonalite intrusion at 45°, minor	i			l				1 /		
	1	carbonate	1							1 /		-
	l	42.1-42.4 1" semi-regular strongly silicified tonalite intrusion at 25°	j			:	1			1 1		***
	l	43.6-43.7 1/8" to 3/4" irregular strongly silicified tonalite intrusion at 60° 48.4-48.5 %" regular strongly silicified tonalite intrusion at 75°; moderate	1							i 1		•
	•	hematite staining								1 1		
	1	49.2 4 strongly silicified tonalite intrusion at 75°; moderate hematite	1							1 1		٠,
		staining, 12 cpy								1 1		_
		49.2-51.7 zone with many irregular carbonate stringers and pods; at 49.4-49.6	: .									
		'" irregular carbonate stringer, faulted at 45° with displacement up to 1/4"										
		up to 1/4-53.9-54.6 moderately sheared, moderate silicified tonalite intrusion at 55°; 2%								1 1		
		medium grain euhedral cubes of pyrite								1 1		
	1	56.9-57.2 moderate sheared, strongly silicified tonalite intrusion at 80°								1 1		
	1	58.1-58.6 moderate sheared, moderate to strongly silicified tonalite intrusion	1							1 1		
		at 65°; at 58.1-58.5' 1" white qtz vein at 25° with 10% chlorite,								1 1		124
	I	some carbonate									٠ . ا	
			!							i • 1	.	F 5
					3.1							

		DESCRIPTION	sample	width	from	to		A	SSATS		
DEP		MOTE: All angles are measured with respect to the long core axis.	number	. WIGCH	1700		Au oz/t	AG			
from	to	122 2 01 A MARCH 102 CANTO (LA)	 	-			OZ/C	OZ/t			
	l	23.3-81.9 MAFIC VOLCANIC (con't)]			,			i 1	1	
		60.9 %" strongly to intensely silicified tonalite intrusion at 75°; faulted at 5° with up to %" displacement									
:		61.0-61.2 intensely silicified, semi-regular tonalite intrusion at 55°; faulted at 15° with up to 's' displacement								- 1	
		64.9-65.5 14" to 3" strongly to intensely silicified tonalite at 40°; 1% medium brain euhedral cubes of pyrite, footwall is enriched in pyrite near vein						,			1
		65.4-65.8 pyrite rich zone, 10% fine grain to medium grain euhedral cubes of pyrite usually in qtz pods or in stringers with chlorite								ı	
		66.0-66.1 3/4" semi-regular white waxy qtz stringers at 70°, 15% chlorite, 5% fine grain to medium grain pyrite; 2% cpy							. 1		į
		66.1-66.4 strongly to intensely silicified tonalite intrusion at 35°, 1% cpy, 2% fine grain pyrite									
î		66.5-66.8 pyrite rich zone; 7% fine grain to medium grain pyrite associated with carbonate or chlorite	1								
4	ŀ	67.7-68.0 strongly to intensely silicified tonalite at 40-60°, 3% cpy, 2% pyrite 5% tourmaline on footwall edge of vein	1								
1	į.	68.2-68.3 5" chlorite/carbonate/tourmaline stringers at 50°	1	į į						. 1	i
:		72.8-73.1 14" intensely silicified tonalite intrusion at 35°, 1% fine grain euhedral cubes of pyrite									ĺ
:		74.5 % strongly to intensely silicified tonalite intrusion at 85°; faulte at 15° with up to % of displacement	1								
		80.8-80.9 '' moderately sheared, moderate to strongly silicified tonalite intru- sion at 55°									
		81.4 % carbonate/qtz stringers at 60°, 30% medium grain to coarse grain pyrite	4846	2.0	81.0	83.0	Tr	NIL			
81.9	120.0	MODERATE TO STRONGLY SILICIPIED, MODERATELY SHEARED TONALITE -grey foliation at 50° tonalite -moderate well fractured, carbonate and occasional qtz fracture filling, occasion carbonate pods -1Z medium grain euhedral cubes of pyrite, minor cpy	1								
		84.5-84.8 1" mafic (as 23.3-81.9) zenolith at 25° 84.7-84.9 ½" qtz/carbonate stringers at 35° with minor chlorite 85.1-85.4 1½" porphyritic mafic (as 23.3-81.9) zenolith at 40°, only weakly sheared									

The same of the sa

		DESCRIPTION	sample	width	from	to		A:	SSAYS	 -
from	PTH to	NOTE: All angles are measured with respect to the long core axis.	number	Widtii	17.00		Au oz/t	Ag oz/t		
	1	81.9-120.0 MODERATE TO STRONGLY SILICIFIED, MODERATELY SHEARED TONALITE (con't)				 				_
		87.7-88.2 pyrite rich zone; 5% medium grain euhedral cubes of pyrite associated with chlorite, trace cpy; at 87.8-88.1 k to k irregular qtz/carb stringers at 45°, minor chlorite								
	1	88.2-88.4 ½ intensely silicified tonalite (35°) faulted (15°) with 1½ displacement	4846	2.0	81.0	83.0	Tr	MIL		
		94.5-95.0 zone with 1% medium grain pyrite, 5% sphalerite (?) throughout 96.5-96.8 intensely silicified tonalite (35°), 1% medium grain euhedral cubes of pyrite; at 96.6-96.8 4 2 carbonate/qtz stringers (50°) minor chl.	4847	1.5	94.0	95.5	Tr	NIT		ļ
		101.0-101.3 pyrite rich zone; 5% medium grain to coarse grain pyrite associated with chlorite, trace cpy	4848	1.5	104.0	105.5	Tr	NIT		i
		103.9 ½ carbonate/qtz stringers at 65°, 3% cpy 104.3-104.8 porphyritic mafic zenolith (as 23.3-81.9) (50°) with carbonate pods trace cpy; at 104.4-104.6' 1" white qtz vein (55°) minor chlorite	4849	1.0	108.2	109.2	Tr	NIL		:
		105.1-105.4 mafic zenolith (55°) 108.4-108.5 ½ mafic zenolith (55°) 108.9-109.0 1 white qtz vein (55°) abundant carbonate, minor toursaline								
		110.0-111.2 pyrite rich zone; 3% fine grain pyrite grouped in fractures 112.3-112.9 pyrite rich zone; 3% fine grain to medium grain pyrite grouped in								_
		carbonate stringers 116.1-116.2 mafic zenolith (70°), porphyritic therefore weakly sheared 118.1-118.4 mafic zenolith (40-45°) porphyritic 119.9-120.0 mafic zenolith (65°) porphyritic								•
120.0	144.8	MODERATE TO WEAKLY SHEARED TONALITE -similar to 81.9-120.0 except for less intense shearing								•
-		120.6-123.6 zone with occasional 1/8" tournaline bands 130.9-131.0 % qtz/carbonate stringers at 70°, minor chlorite, increase in py								.
		(coarse grain) in footwall near vein 131.6-131.7 lm qtz/carbonate vein at 80°, minor chlorite, 5% tourmaline, 5% medi grain euhedral cubes of pyrite	-							
		135.5-136.4 pyrite rich zone; 5% medium grain to coarse grain euhedral cubes of pyrite associated with chlorite	. *							
		135.8-135.9 3/4" qtz vein/intensely silicified tonalite (65°); fault (40°) with up to 3° of displacement								. }
										_!\

	-	DESCRIPTION	sample	width	from	to		AS	SAYS	
DEP from	to	MOTE: All angles are measured with respect to the long core axis.	number	W.GG.			Au oz/t	Ag oz/t		
144.8	157.5	120.0-144.8 MODERATE TO WEAKLY SHEARED TONALITE (con't) 140.3-140.4 1" intensely silicified tonalite (75°), faulted (15 and 30°), both with 4" displacement 143.4-143.6 pyrite rich zone, 5% medium grain euhedral pyrite over zone MODERATELY TO STRONGLY SILICIFIED, MODERATELY SHEARED TONALITE -same as 81.9-120.0' 146.1-147.8 pyrite rich zone; 5% medium grain euhedral cubes of pyrite throughout zone 149.7-157.5 weakly to moderately sheared zone (as 120.0-144.8) 153.3-154.4 strongly to intensely silicified tonalte, 2% coarse grain euhedral cubes of pyrite 153.3-154.4 2" intensely silicified zone/qtz vein (45° 15% tourmaline, 1% medium grain euhedral cubes of py 1% cpy.	4850	1.5	153.2	154.7	Tr	MIL		
157.5	167.1	STRONGLY SILICIFIED STRONGLY SHEARED TONALITE -foliation at 45°, shearing and silicification increase throughout zone -1Z coarse grain euhedral cubes of pyrite 159.3-159.4 three ≤1/8" tournaline stringers, with 3Z medium grain euhedral cubes of pyrite, trace cpy 160.2-160.4 ½" white qtz vein at 55°, trace tournaline	4851 4852	5.0 4.0	157.5 162.5	162.5 167.5	Tr Tr	MIL		
167.1	184.7	MYLORITIC TORALITE -white to clear, strongly sericitized tonalite with large qtz eyes (usually 1/8" to ½") -foliation at 45°, upper contact sharp but lost in broken core, sharp bottom contact at 50° -1% coarse grain pyrite, minor chlorite and tourmaline in occasional qtz or carbonate stringers or pods 172.3-172.4 ½" white qtz stringers (45°) surrounded on either side by 15% tourmaline in bands 179.9-180.0 ½" white qtz stringers (55°) with carbonate 182.4-182.5 ½" white semi-regular carbonate/qtz stringer (65°)	4853 4854 4855	5.0 5.0 5.0	167.5 172.5 177.5	172.5 177.5 182.5	Ťr	WIL WIL WIL		

The second secon

	XEPTH .	DESCRIPTION	sample	width	from	to		· A:	SSAYS		
fro		NOTE: All angles are measured with respect to the long core axis.	number				Au OZ/t	Ag oz/t			
184.		MODERATELY TO STRONGLY SILICIPIED, MODERATELY TO STRONGLY SHEARED TONALITE -grey tonalite, foliation (45°), occasional irregular carbonate stringer or pod and very occasional qtz pods -1% medium grain subsedral cubes of pyrite -at 187.7° ½° white qtz stringers (45°) with carbonate	4856	4.0	182.5	186.5	Tr	MIT		- 	
		188.4-188.5 ½ qtz/carbonate stringer (50°) with 5% tournaline, 5% chlorite 195.6-195.7 ½ tournaline/qtz/carbonate stringer (55°) with 5% tournaline, 5% very fine grain pyrite in irregular stringers 198.2-198.6 ¼ weakly sheared mafic zenolith (55°); at 198.4-198.5 ½ to 1 white qtz stringer (55°), trace hematite staining 199.8-200.0 1° intensely silicified tonalite bend/qtz vein (65°); minor carb, weakly hematite stained 201.0-201.4 ½ to 3/4 qtz/carbonate stringer (30°), 3% medium grain subsdral py	·				•				
201 .	206.5	WEAKLY TO MODERATELY SHEARED MAFIC VOLCANIC (ZEMOLITH) -fine grain, dark green although most of unit is bleached lighter to medium green -foliation at 35°, many irregular carbonate stringer and pods and some qts pods -both contacts sharp upper (40°), lower (50°), with occasional wispy tourmaline bands -12 medium grain pyrite, in chlorite filled fractures 203.1-203.2 10° white semi-regular qtz stringer (50°) with white carbonate	4857	5.5	201.5	207.0	Tr	MII.			•
206.	232.9	MODERATE SILICIFIED, MODERATE TO STRONGLY SHEARED TONALITE -very similar to 184.7-201.6° but lighter and with up to moderate sericitization 210.9-211.1 1° mafic (as 201.6-206.5) zenolith (45°) 213.2-213.4 irregular mafic zenolith 213.7-213.8 ½° white qtz stringer (50°) with minor carbonate; faulted (65°) wit up to ½° of displacement 215.8-216.0 1½° qtz/carb vein (55°), 2% fine grain euhedral cubes of pyrite, 2% cpy, trace hematite 216.0-216.5 well carbonated zone, with many carbonate stringers, small -1%, 2% fine grain euhedral cubes of pyrite 217.3-217.4 1½° carb/greyish qtz vein (60°)	4858 4859	1.0	215.5	229.7	Tr	MXI.			
		218.1-218.2 in chlorite/greyish qtz/carbonate stringer (55°) 218.5-218.6 in semi-regular greyish qtz stringer (75°) with minor carbonate									

A STATE OF

A CHARLES

DEP	TH	DESCRIPTION	sample	width	from	to		A	SSAYS	
from	to	NOTE: All angles are measured with respect to the long core as	kis. number	#.cc			Au OZ/t	Ag oz/t		
		206.5-232.9 MODERATE SILICIFIED, MODERATE TO STRONGLY SHEARED TONALITE (con't)								
		218.7-219.9 medium green to light green bleached mafic volcanic (as 201.6-20 with abundant, mostly irregular, carbonate/qtz stringer up to ½" usually with bleaching around them 219.2-219.3 1" qtz vein (60°) minor carbonate 219.6-219.8 1½" qtz vein (45°), minor carbonate		·						
		220.0-220.4 24" greyish-white waxy fractured qtz vein (40-45°), minor carbon 7% medium grain pyrite in fractures	ate							
		224.5-225.0 zone with a few in to 1" irregular carbonate stringer, with mino qtz stringer 224.5-224.7 ly" irregular carbonate vein (50°), minor qtz	r							
		228.8-229.2 1½" carbonate/qtz vein (40-45°), tourmaline on either edge of ve (7%); increase in medium grain euhedral cubes of pyrite, 10% in 0.2° following vein	in							
1		231.7 's" intensely silicified tonalite/white qtz vein (75°)				1			1	
232.9	279.9	MODERATELY SILICIFIED, MODERATE TO WEAKLY SHEARED TOWALITE -similar to 206.5-232.9' but intensity of shearing decreases and pyrite conte decreases to 5% -dark grey, shearing gradually decreases throughout zone	nt 4860	1.0	243.0	244.0	Tr	NIL.		
		243.2-243.8 14" semi-regular carbonate/qtz vein (approx 25°), minor chlorite	4861	5.0	249.8	254.8	Tr	WII.	1 1	
		trace cpy 243.9-244.6 mafic zenolith (as 201.6-206.5) (60-75°) 244.3-244.4' 3/4" semi-regular tonalite intrusion (75°)	4862	5.0	254.8	259.8	Tr	MIL		
		245.4-246.6 mafic zenolith (65°), the many carb and qtz stringers (%%") caus some bleaching 246.3-246.4 1½" carb/qtz vein (75°) with wispy bands of tournal 5% fine grain to medium grain euhedral cubes of pyr in bands	ine							
		247.2 ½" mafic zenolith (70°), weakly sheared								
		249.9-250.4 lamprophyre dyke; dark elongate phenocrysts in a groundmass of light and dark crystals; well sericitized, slight bleached; shar and regular contacts, upper 65°, lower 80°	P							
		250.4-250.5 1" to 1½" semi-regular white carb/qtz vein (80°); 5% tourmaline, 3% cpy, 1% medium grain euhedral cubes of pyrite								
	•	250.5-250.6 1" irregular mafic zenolith (approx 70°)								
							. '			

OROFINO RESURCES LIMITED

Hole No. 438-87-5

Page 8 of 9

050	T. .	DESCRIPTION	sample	width	from	to		AS	SAYS	
DEP from	to	NOTE: All angles are measured with respect to the long core	e axis. number	WIGGI			Au oz/t	Ag os/t		T
11000	-10	232.9-279.9 MODERATELY SILICIPIED, MODERATE TO WEAKLY SHEARED TONALITE (con't	.)	}	 	 	 			+
		TATAL TATAL SANGERS OF THE SANGES OF THE SAN	7			ŀ	l	1 1	i	1
		250.6-251.5 intensely silicified tonalite/qtz vein, with small mafic incl	usion;		l	1	1	l l	. 1	
		both contacts sharp, upper (75°), lower (60°); with abundant	carb,	<u>}</u>	l	i	ŧ	1 1		- 1
i		5% tournaline, 3% medium grain pyrite, minor chlorite		ļ	l	l		l I		- 1
		251.5-251.7 1½" mafic zenolith (60°)		•	l	1	'	1 1		ı
		251.7-252.7 strongly to intensely silicified tonalite		l	l	1	i	1 1		ı
		252.7-252.9 1½" mafic zenolith (65°)	/s.col	I	l	l		1 1	. 1	
i		252.9-253.8 lamprophyre dyke; same as 249.9-250.4'; both contacts sharp 254.6-254.8 lamprophyre dyke (85°)	at (33)	i	1	ļ	l	1 1	. 1	- 1
		255.3-256.9 lamprophyre dyke; moderate to strongly silicified, strongly s	heared	l]	1	1 1		ı
	l	257.3-257.5 1½ qtz/carb vain (60°) with two 1/8" tournaline bands (15%)	4863	4.0	267 -5	271.5	Tr	MII.	ł	
	ł	257.8-257.9 1" semi-regular carb/qtz vein (65°)	1 4003	1 7.0	207.5	1 -/	l **		j	- 1
	1	257.9-259.7 lamprophyre dyke; bleached with many irregular carbonate stri	peere	1	!		1	1 1	1	1
	Ĭ	both contacts sharp, upper (65°), lower (60°)	4864	1.0	275.0	276.0	Tr	BIL	1	- 1
		260.1-262.2 lamprophyre dyke; bleached with many irregular carbonate stri	Ingers						i	- 1
	ł	both contacts sharp upper (55°), lower (65°)			Į.	1	l	i i	- 1	-
]	262.5-262.8 lamprophyre dyke; both contacts sharp upper (60°), lower (60°	P)	1	l			1 1	1	ı
	l .	264.1 ½ lamprophyre dyke (70°)				1 .		1 1		- 1
		264.2-264.4 3" lamprophyre dyke (70°)		1	1			1 1		- 1
		264.5-264.6 4 lamprophyre dyke (65°)		1	l .	Į.		1 1	. 1	1
		266.9-267.0 1" lamprophyre dyka (65°)	.		İ	ł		1 I	1	- 1
		267.3-268.4 lamprophyre dyke, both contacts sharp, upper (65°, lower (65°)	1				1 1	1	ı
٠.		at 297.7° % strongly silicified tonalite intrusion (65°)	0.	1		1	1	1		
		at 297.9-298.0° 3/4" strongly silicified tonalite intrusion (1	i		•	i i		•
		268.4-269.6 strongly silicified, moderate to strongly sericitized tonalis	···	1	l	1	ŧ	1 1		ı
		3% fine grain to medium grain pyrite 268.9-269.1 2" greyish white waxy qtz vein (60°), 5% very fi						1 1	- [•
		grain pyrite, 5% tournaline, some carbonate		•			l	1 1	- 1	
		269.6-270.8 mafic zenolith, both contacts sharp upper (65°), lower (40°)				1	l	!!	1	-
		269.9-270.0 ½" to 3/4" semi-regular qtz stringer (50°)	į.				l	l I		1
		270.8-271.5 strongly sericitized tonalite	1			ĺ		l f		-
		271.5-271.8 mafic zenolith (50°)					1	1 1		ł
		2/5.4-275.6 2" white waxy qtz vein (55°), minor carbonate, trace_tournal	ine]		1 1	ŀ	-
	1	2/9.2-2/9.7 strongly altered mafic zenolith/lamprophyre dyke (75°)							ł	
	1							l i	1	
	1 .							1	1	-
	1							1		
, t									1	1

		DESCRIPTION	sample	width	fram	to		A	SSAYS	
DEP	to	NOTE: All angles are measured with respect to the long core axis.	number	Width	170	10	Au DZ/t	Ag oz/t		Γ
79.9		WEAKLY SILICIFIED, MASSIVE TO WEAKLY SHEARED MAFIC -medium green-grey, fine grain to medium grain, bleached looking mafic -moderately well fractured, foliation at approx 55° -trace pyrite, ½ cpy	2865	2.0	282.0	284.0		NIL		
		280.8-281.2 moderately silicified, moderately sheared tonalite intrusion (80°) 282.9 ½" chlorite/carbonate/qtz stringer (85°), minor tourmaline 283.2 ½" chlorite/carbonate/qtz stringers (85°), minor tourmaline 284.2-284.3 ½" strongly silicified tonalite intrusion (85°) 286.6-286.9 ½" intensely silicified tonalite/white qtz vein (50°) 287.3-288.1 zone is bleached to pale green 287.7-288.1 strongly silicified tonalite intrusion (65°) 290.4 ½" strongly silicified tonalite intrusion (75°)								
		291.4 1/8" medium grain to coarse grain pyrite stringers (55°) 291.6-291.7 1" moderately to strongly silicified tonalite intrusion (65°) 292.8-293.1 broken core of moderately to weakly sheared tonalite; ends with mafic core pieces								
	293.0	END OF HOLE								
		·								
					·					
				-						
V-										

ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES
OFFICE

MAY 19 1988

RECEIVED

Re-Assayed

OR	OF	:INO	
RESO	JACES	LIMITED	

ASSAY SUMMARIES

RILL HOLE	FOOT	AGE	Sample		SAYE tom F	D BY:	VAL	. U E	REF	ERE	H C E:	Sample		ASS AY	ED I	ľ:	VAI	. u z
SUMER	from	to	NUMBER	. 341	sw	ZR TH	Au oz/t	Ag oz/t	Drill Log	Sample Book	Absay Result	NUMBER	BH	sv	12	THE	Am oz/t	Ag 02/
438-87-5									1					l				
	15.2	18.3	18899			1	Trace	N11	x				ľ	ł	1	l '	1	•
	18.3	19.3	18900	1	1		· · · ·				1 1		ł	ł		•	l	ł
	19.3	24.3	4837	1	1	1 1	•		1	1	1 1	1	1	1	1	l		1
	24.3	26.8	4838	1			•		1	1			1	1	1	l	i	
	26.8	29.3	4839	1	1		•		i	ł	1		1	1	1	l	1	1
	29.3	31.3	4840	1	1		•	1 -		1	1		ı	ł	I	Ι΄.	ł	1
	49.2	51.7	4841			1 1				l			i	1	ł	1		ł
	57.8	58.8	4842	1		l t	-		ı				1	1	I	ł	1.	1
_	64.5	67.0	4843	1	1	1 1					1 1		•	f	•	į	l	ı
•	67.0	68.5	4844	ı	1	1 !	1 "	J **	1	Ì		1	1	1	1	1	I	ļ
	72.5	73.5	4845	ł	1	1 1	•	*	i		i i		1	1	I	1	ł	1
	81.0	83,0	4846	1	ì	1 1	-		1	1			1	1	1	1	1	1
	94.0	95.5	4847	1	1	1 1		**	1		1		1	1	1	į		
	104.0	105.5	4848		1			••	1	1	1 1			I	ł	1		
	108.2	109.2	4849	1	i				ı	ł			1	1	l	1	ł	ł
-	153.2	154.7	4850	1	1	1 1			1	i	1	1	1	1	1	1	l	ł
	157.5	162.5	4851	- 1	1 .	1 1			1	100				1	1	•	ł	
	162.5	167.5	4852	1	1	1 1			1	i	1 1	ł de la la la la la la la la la la la la la	1		1	1	1	I
	167.5	172.5	4853	1 .	i	1 1			•	1			1	1	1	1		1
•	172.5	177.5	4854	t	1	1 1				1	! 1		ı	1	1	1	ı	1
	177.5	182.5	4855	- 1	1	1 1		1 -		1	1	1	1	1	1	1		1
	182.5	186.5	4856	1	1	1 1			•	1			1	1 .	1	l	1	1
	201.5	207.0	4857		. 1	1 1			-	ŀ	1 1	1	•	1	1	1	1	1
			4858		1	1 1				1			1	1	1	1		1 .
	215.5	220.5	4859	1			1			1		H	1 .		1		1 1	ممهرا
•	228.7	229.7	4860	- 1		1 1							1	i	ı		1 1/10	1
_	243.0	244.0	4861	- 1									1			17	1 /V '	
	249.8	254.8		1	1				1 .	L			1 /	71	1 '	II.	Ma	1
	254.8	259.8	4862	- I			1			1			1/	1	w	ገ '		I
	267.5	271.5	4863	i			1 .		1	1		ll ·	¥1.	The state of	1	1		I
	275.0	276.0	4864	1	1	1 1	1	l			1		11.	1	1	1	1	1
	202.0	284.0	4865										1,	1	1	ı	1 .	1
		1		1	1	1 1		l ·	1	1		ll .	Ī	1	1	Ī	1	I
				ı	I	1 1	1	.1	1	1		li	1	1	ı	1		
	1	1.		- 1	1			1					1	1	I	1	1	
			1		1			1	1	l			1		ı	1		1
	1				1	1 1		1	1	4	1		1		ı	ı		1

P.O. BOX 143, 1 FIRST CANADIAN PLACE, TORONTO, CANADA M5X1C7 TELEPHONE: (416) 362-6863 TELEX: 06-217768

DRILL LOG

Location: L16E, 25+00S

Co-ordinates: Claim: K-855737

Section: 26+00s, Grid #2 Length: 349' Elevation: Azimuth: 345° Dip: -45°

HOLE: 438-87-6 Core size: BQ

Assayed By: Custom F.A. Dip Tests: NO TEST TAKEN Started: Sept. 17/87

Completed: Sept. 18/87 Logged by: Hary Stalker

-		DESCRIPTION	sample	width	from	to		A:	SSAYS	
from	PTH to	NOTE: All angles are measured with respect to the long core axis.	number	Width	Trum		Au 02/t	Ag oz/t		
0.0	9.0	CASING								
9.0	16.4	WEAKLY TO MODERATELY SHEARED GREYWACKE -dark grey, fine grain to medium grain foliated (55-65°) metasediment -occasional qtz pod or stringers throughout, very occasional carbonate stringer -12 fine grain pyrite, pyrite rich locally	4866 4867	5.0 2.0	9.0 14.0	14.0 16.0		MIL		
		9.0-20.7 abundant broken and missing core; between 9.0-19.0' 2.5' of core is missing; between 19.6-20.7' 0.5' of core is missing; broken and missing core especially at (approx): 9.0-10.3' '' and 2" pieces 10.7-10.9' 1" pieces 11.8-12.0' 1" pieces 12.3-12.5' 1" pieces 14.6-15.3' '' to 1" pieces 15.9-16.7' 1" pieces 16.7-16.9' '' pieces 17.2-18.3' '' to 1" pieces 19.6-20.7' '' to 1" pieces 9.0-10.4 zone with many thin (<1/8") vuggy carbonate stringer subparallel to foliation; 3% medium grain euhedral pyrite 9.0-26.9 core is weathered and vuggy and occasionally rusty, decreasing towards end of zone	•			•				
16.4	23.7	MODERATELY TO STRONGLY SHEARED GREYWACKE WITH QTZ/CHERT BANDS -greywacke (as 9.0-16.4') is banded with carbonate and qtz/chert bands and boudinaged stringers (up to ½") with 35% qtz/chert, 15% carbonate -3% very fine grain to fine grain euhedral pyrite mainly in carbonate bands	4868 4869	4.0 4.0	16.0 20.0	20.0 24.0		NIL NIL	-	
		21.1-21.2 contorted (folded) bands 21.2-21.3 fractured (20°) with displacement up to ½"								

ONTARIO GEOLOGICAL SURVEY ASSESSMENT FILES OFFICE

MAY 1 9 1988

RECEIVED

DEPTH		DESCRIPTION	sample	width	from	to		ASSAYS						
	to	MOTE: All angles are measured with respect to the long core axis.	number	#1001			Au os/t	Ag pz/t						
23.7	36.8	LEAKLY TO MODERATELY SHEARED GREYHACKE -same as 9.0-16.4° 26.0-26.3 with a few 1/8" to ½" boudinaged qtz stringers and pods (as 16.4-23.7') 30.6-32.1 well fractured to breccia, with carbonated fracture filling 34.3-34.6 with a few 1/8" to ½" boudinaged qtz and carbonate stringers	4870 4871 4872	5.0 5.0 3.0	24.0 29.0 34.0	29.0 34.0 37.0		MIL MIL MIL						
36.8	45.4	HODERATELY TO STRONGLY SHEARED GREYWACKE WITH QTZ/CHERT BANDS -similar to 16.4-23.7° but with only 20% qtz/chert spaced farther apart -minor carbonate 36.8-39.2 zone is strongly sheared and medium grain 40.1-40.9 zone is weakly sheared 40.5-40.7 ½ qtz stringer (50°), trace pyrite 40.9-41.3 strongly sheared zone, medium grain, with 3% fine grain to medium grain subsdral cubes of pyrite filling fractures 43.9-44.2 qtz/chert bands are well fractured (approx 5° and approx 85°) with up to ½ of displacement 44.4-46.5 with 3% fine grain to medium grain subsdral pyrite	4873 4874	5.0 5.0	37.0 42.0	42.0 47.0	1	MIL						
45.4	237.8	WEAKLY TO MODERATELY SHEARED GREYWACKE -same as 9.0-16.4° 49.0-49.1 ½" to ½" white qtz stringers (50°), trace pyrite 59.0-115.0 2% fine grain to medium grain pyrite found filling fractures 68.6-68.7 ½" white qtz stringers (55°) 82.6-83.4 breccia zone, fractures filled with sericitized and chloritic greywacke; 3% medium grain ewhedral cubes of pyrite fracture filling, 1% cpy 91.0-91.4 pyrite rich zone, with 7% fine grain to medium grain ewhedral pyrite in bands or fracture filling' 95.2-95.7 well fractured to breccia, medium grain, greywacke 5% medium grain ewhedral cubes of pyrite 97.7-99.5 well fractured to breccia, carbonated and chloritic greywacke; 5% fine grain to medium grain pyrite, trace cpy	4875 4876 4877	1.0 1.0 2.0	82.5 95.0 97.5	83.5 96.0 99.5	īr	MIL MIL MIL						

DEPTH		:	DESCRIPTION	sample	width	from	to		ASSAYS			
from	to	 **	OTE: All angles are measured with respect to the long core axis.	number	widen	170		Au oz/t	AR OZ/t			
		45.4-237.8 WEAKLY	TO MODERATELY SHEARED GREYWACKE (con't)									_
ł		59.0-115.0 (co	-1+\				l					
			·				l	ł			li	1
			03.3-104.0 broken, ground and missing core; '' and 1" pieces 04.4-104.5 '' white qtz stringer (60°) with minor carbonate]	!			1 1	ł
1			04.5-105.1 broken and missing core; 'a" and 2" pieces				1	1				i
İ			06.7-107.1 broken, missing and ground core; 'y' and 1" pieces	:			j				1	
		1	07.2-107.4 pyrite rich zone with 10% medium grain euhedral pyrite				Ì		1			1
			in bands or fracture filling									į
		1	12.5-114.0 zone with many ½" to 1" qtz stringers 112.5-112.6 ½" semi-regular white qtz stringer (60°)	4878	1.5	112.5	114.0	TE	MIL			į
1			112.5-112.6 3 semi-regular white qtz stringer (60°)				ľ				[i
			113.2-113.3 \(\frac{1}{2}\) to 3/4" semi-regular white qtz str. (65)	')			l	1				
Į.			113.4-113.5 % semi-regular white qtz stringer (70°)				1				1	i
			113.8-114.0 ½" to 1" semi-regular white qtz stringer				İ	•			l I	,
ļ			(55°) with minor chlorite				ł	!			I [ı
•			oroken core, 1" pieces				1					1
			yrite rich zone; 10% medium grain euhedral pyrite in bands or racture filling				l				1	
i			yrite rich zone; 10% medium grain euhedral pyrite in bands or					1				
· .			racture filling				Ī					,
•			rregular white low angle qtz vein/qtz pod, 4" long, 1" wide; with	4879	1.0	120.7	121.7	Tr	WIL		1	ı
,			ncrease in pyrite (medium grain) in surrounding wallrock				l	l i			1 1	ı
			beige qts stringer (60°)				1	1			1 1	1
			sdium to coarse grain greywacke sdium grain to coarse grain greywacke, 3% medium grain suhedral py	4880	1.0	1/4 0	145.0		WIL.		1	
		144.1-144.0 W	" white qtz stringer (70°), faulted (15°) with up to 1/8° of dis-	4000	1.0	144.0	145.0	112	MIL			
ł			lacement				ł	1 :				
			" to '" irregular white qtz stringer (55°), minor carbonate				j			i i		
1		149.9-149.3	" greyish white qtz stringer (55°)				l	Į į				
•		155.8-156.0 2	y white qtz vein (550) with minor chlorite	4881	1.5	155.5	157.0	Tr	NIL		1	
		156.4-156.5 1	" white, semi-regular qtz vein (65°)				1					
4			" to 3/4" white carb/qtz semi-regular stringer (60°)							1 1		
,		Et .	rregular qtz stringer/pod, 2" long, 5% medium grain pyrite, trace				l			j		
.*			epy arbonate pod with abundant epidote			·	l				1	
			" white qtz stringer (60°)				į				J	
1	ĺ		" white qtz stringer (60°), with minor carbonate				ł				1	

The was the first owner of the second

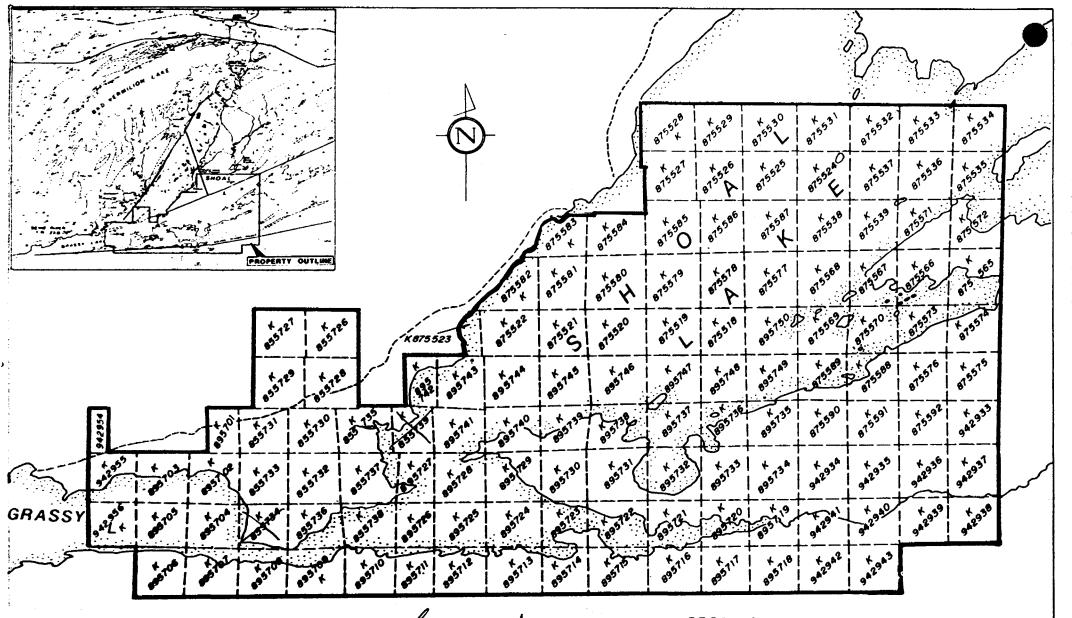
DEPTH		Tu	DESCRIPTION	sample	width	from	to	ASSAYS					
 -	from	to	MOTE: All angles are measured with respect to the long core axis.	number			"	Au oz/t	Ag oz/t			•	
			45.4-237.8 WEAKLY TO MODERATELY SHEARED GREYWACKE (con't) 202.3-202.4 3 mafic dyke (?), medium grain to coarse grain band cutting across										
			foliation (55°) 203.3-203.5 3/4" strongly sheared and carbonated (60°) 204.1-204.3 ½" mafic dyke (?), medium grain to coarse grain band cutting across foliation (35°)					,				,	
			209.0-209.2 strongly silicified zone (55°) 236.9-237.0 ½ to ½ irregular qtz stringer (approx 45°) 237.3-237.7 ¼ white qtz vein (50-55°) with abundant chlorite, some carbonate									-	
	237.8	284.0	STRONGLY SHEARED GREYWACKE WITH QTZ/CHERT BANDS -strongly sheared greywacke with closely spaced (\$\frac{1}{5}^{10}\$ of greywacke between) bands	4882	1.5	227.0	238.5		MIL			j	
			of qtz/chert and carbonate (usually ≤ 1 but occasionally larger)	4883	5.0		243.5	1	MIL			ï	
			-foliation (55-65°), bands are occasionally contorted with kinks and fracturing -moderately sericitized, 3% medium grain subsdral cubes of pyrite throughout with		4.5		248.0	1	MIL.	1	• 1	•	
			more locally	4885	3.0	1	251.0	ì	MIL		ı		
			238.2-239.1 weekly sheared greywacke (as 45.4-237.8) 239.1-239.3 1½ irregular qtz vein (approx 60°), with 10% medium grain pyrite,	4886	1.5	251.0	252.5	Tr	MIL	1 1		•	
			minor carbonate	4887	1.5	252.5	254.0	Tr	MIL	1			
			242.7-248.1 strongly sheared but with only an occasional chert/qtz or carbonate band	4888	5.0	254.0	259.0	Tr	MIL				
			251.2-251.9 qtz vein; 5" white qtz vein (approx 50°), with occasional well	4889	5.0	259.0	264.0	TE	MIL	1 1	ı	Ŧ	
			altered greywacke wallrock inclusion; 15% pyrite, occasionally coarse grain but mostly fine grain grouped into blebs and associated	4890	5.0	264.0	269.0	TT	HII.	l I			
			with carbonate; with carbonate, chlorite, minor tournaline 253.0-254.0 qtz vein; white qtz vein (55°) with some well altered greywacke	4891	5.0	269.0	1274.0	IT	NIT.	1 1		•	
_			wallrock inclusions; 10% fine grain pyrite grouped into blabs and	4892	5.0		279.0	•	MIL	1 1	i	•	
			associated with carbonate; trace cpy, minor carbonate 254.0-284.0 pyrite and sericite rich zone, with 5-7% medium grain euhedral	4893	5.0	279.0	284.0	Tr	MIL		1.		
			cubes of pyrite throughout; moderate to strong sericitiztion 260.0-262.5 strongly sheared but with only an occasional qtz/chert or carbonate band									,	
			277.7-280.5 strongly sheared but with only an occasional qtz/chert or carbonate band									,	
			282.6-283.1 strongly sheared but without qtz/chert or carbonate bands									<u>ا</u> ر	
												• [

DEPTH		DESCRIPTION	sample	width	from	to		ASSAYS				
from	to	NOTE: All angles are measured with respect to the long core axi	are measured with respect to the long core axis. number		,,,,,,		Aw oz/t	Ag oz/t			Γ	
284.0	349.0	WEAKLY TO MODERATELY SHEARED GREYWACKE -same as 45.4-237.8'; gradual decrease in shearing over zone	4894	4.0	284.0	288.0	Tr	NIL			Γ	
		284.0-287.0 strongly sheared but shearing decreases towards bottom of zone; moderately to strongly sericitized, 3% medium grain euhedral cube of pyrite	8									
		294.7-295.0 2" irregular white qtz vein (approx 60°), minor carbonate, 3% fingrain pyrite; with increase in pyrite in surrounding, well sericitized, wallrock		1.0	294.5	295.5	Tr	HIL				
		306.9-308.6 moderately to strongly sheared greywacke with qtz/chert bands; similar to 36.8-45.4' with many thin carbonate and qtz bands and occasionally 't'' to 't'' qtz/chert band; 5% fine grain pyrite in wispy stringers	4896	2.5	306.5	309.0	Tr	NIL				
		321.6-324.3 same as 306.9-308.6' but with only 3% fine grain pyrite in wispy stringer with the occasional coarse grain euhedral cube	4897	3.0	321.5	324.5	Îr	NIL				
	İ	331.4-331.7 2" white carbonate/qtz vein (55°) with small (<1") greywacke wall rock inclusions; 5% medium grain euhedral cubes of pyrite, mostl		2.0	331.0	333.0	Tr	NIL				
		on vein edges and associated with carbonate 331.9-332.3 5" white carbonate/qtz vein (60°) with ½" greywacke inclusions 3% fine grain pyrite associated with carbonate										
		335.3-335.5 1½" to 2" semi-regular white qtz vein (50-60°); 3% medium grain euhedral cubes of pyrite, minor carbonate	4899	1.0	335.0	336.0	7-	WIL				
		340.8-341.0 3/4" greeny-grey chert band (55°), minor carbonate, 2% medium graphyrite; with increase in pyrite in surrounding wallrock as fine grain pyrite filling fractures			33300	33000						
*	349.0	END OF HOLE										
•	1											
	ł										İ	
	İ											
									, .			
	٠.				-							

OROFINO RESOURCES LIMITED

ASSAY SUMMARIES

RESOURCES LIMITED									Re-Assayed										
WILL BOLE	F001	AGE	SAPPLE	AS Cu	SAYE	D N	!:	- VAL	UE	REI	ERE	N C E:	Sample		ASSAY	(ED 1	K:	VAI	. U E
MUMBER	from	to	NUMBER	BW	sw	XX	THR	Au oz/t	Ag oz/t	Drill Log	Sample Bok	Absay Result	NUMBER	34	sw	72	THR	Au oz/t	Ag 02/
438-67-6															1				
	9.0	14.0	4866		1			Trace	- NII	l x						ł			į
	14.0	16.0	4867	i	1						1		li	1	1	1	1	1	i
	16.0	20.0	4868	ı	ł	1		**			1		if .			1	1	1	
	20.0	24.0	4869	1	1	1		*	i •	1	1	1		1	1	1	ł	ł	1
	24.0	29.0	4870	ı				-		! .	1	1		1	i	I	ł		1
	29.0	34.0	4871	ł	1		•				ł			ł	ł	1	1	i	
	34.0	37.0	4872	1	1	1		**			1		H	1	ł	1	1	ł	
	37.0	42.0	4873		1	1	ŀ	-	*	1	ł	1		1	ł	1	1	1	1
_	42.0	47.0	4874	ı	1	1		*	•	1	' '			ł	1	l	1	1.	I .
	82.5	83.5	4875		ı			••		1	ł		H	1	1	1	1	II .	1
	95.0	96.0	4876	1	1	1	1	*		1	ł			1	i	1		1	1
	97.5	99.5	4877	1	1	1		•		1	1			1		1	1	1	1
•	112.5	114.0	4878	ı	1	1		*		I	1	1		ı	1	•	1	1	
	120.7	121.7	4879	1	1		i	**	•	1		Ì		1	ł	1	1		
	144.0	145.0	4880	ı	1	Ł		•	. **	1	1	1		1	1	1	ł	1	l l
•	155.5	157.0	4881	1	ł	1	} '	*	**			1		ı	ı	1	1	ł	1
	237.0	238.5	4882	ł	1 .	ł		•	•	· ·	1	į		1	1	1	1	1	1
	238.5	243.5	4883	ı	1	1		. **			1	ı		1	1	1	1	1	1
	243.5	248.0	4884	i	ı	1				1	1			1	ł	1	ł	1	İ
	248.0	251.0	4885		1	1	1				· I	1		1	1	ł	1	1	1
	251.0	252.5	4886	1	1	1	1	•	! "	-	i	ł		1	1	1	4		1
	252.5	254.0	4887	1	ł		1			1	1	1			ł	1	l l	l .	
	254.0	259.0	4888	1	1	1	i	-		•	1	1		1	1	1	1		1
	259.0	264.0	4889	ı	1	ł	1	-		1		1	•	1	ı	1	1	1	ı
	264.0	269.0	4890	1	1		i		. "	1		1		1	! :-	1		1	I
	269.0	274.0	4891	- 1	1	ł			! "	1		1	ll '	1		1		•	1
	274.0	279.0	4892	1		1	Į	•	•	ł	1			1	. [1	1	1	•
	279.0	284.0	4893	1		1	1	<u> </u>	1		1	1		Ī	i		1	1	1
- · · · · · <u></u>	284.0	288.0	4894	. [1	1		-			1 .	ł		ı	1	1	1		1
	294.5	295.5	4895		1	1	1					1		ı		1	1	1	
	306.5	309.0	4896	1	1	1	1		"	1	1	1	1	ł	1	1	1	1	1
	321.5	324.5	4897	1	1		1			1	I	Ì		1	ı		1		I
	331.0	333.0	4898	. 1	1			-		T .	1			} -	1	1	1	1	1
	335.0	336.0	4899	1	1	1	1	1 -		1	1	1			ł	1	1	•	l
	1			1		ł	ı			1		1			ł	1	1	1	
	1	1		ł	1		1			1	1	1		1	1 .	ł	1	1	
			I	. 1	I	ı	1	ł		1				- 1	1	1	1	1	1



Francis T. Mann March 28, 1988

OROFINO RESOURCES LIMITED

SEINE RIVER OPTION Proj 438

MINE CENTRE AREA, RAINY RIVER DISTRICT, ONT. NTS 52C/10

CLAIM MAP

SCALE 1 in. = 1/2 MILE

BEINE RIVER ASSESSMENT - PROJECT 638

March 24, 1988

Claim	Man-Days	Claim	Man-Days
K-855730,	100	K-895718,	10
K-855731	100/	K-895721 •	5
1K-055734	25	K-895722*	40
K-855735 *	135	K-895723•	40
K-855738	130	K-895724	45
-K-855799		K-895726.	100
K-875523⁴	30	K-895727 • '	130
K-875535 √	5	K-895728•	115
K-875566 •	30	K-895729 ⁴	140
K-8755674	5	K-895730	20
K-875574 →	30	K-895731.	15
K-875582 →	15	K-895732,	45
K-875588	20	K-895733*	10
K-895701.	100/	K-895736°	20
K-895704	60	K-895737*	30
K-895705.	60	K-895739	30
K-895706.	100	K-942 7 40	30
K-895707•	100	K-942 9 41	15
K-895708	40	K-942 7 42	30
K-895710.	10	K-942934 ♥	10
K-895713·	20	K-942935_	22
K-895714	10	K-942936.	10
K-895715'	25	K-942938 •	10
K-895716	10	K-942954 -	140
K-895717	10	K-942955	40
		K-942956,	60
	ORA G DIV.		2,442 Man-Days

KENORA MINING DIV. DE 13 F. 1 V E D MAR 3 1 1988 7.8.9.10.11.12.1.2.3.4.5.6

2,442 Man-Days -135 2307

Assess iles
Ministryol Report
Natural
Resources of Work

DOCUMENT No.
W8801-128
BAD WERMILION 665 The Min

900

Project #638

OROFINO RESOURCES						7 931			
	01 - First Canadian	-	oronto,	Ontario	, Canad	a M5X 1	.C7		
	nance and Distribution of Cred		* * 1 - 1						
Total Work Days Cr. claimed	Mining Cislm Prefix Number	1 - 1 -	Mining reflx	Claim Number	Work Days Cr.	Minin Prefix	g Claim Number	Work Deys Cr.	
for Performence of the follow work, (Check one only)	See attached lis		claims		 			-	
Menual Work		49	<u> </u>			, k			
Shaft Sinking Drifting o	r				ļ				
Compressed Air, other Power driven or mechanical equip.								-	
Power Stripping					1				
Dlemond or other Core								1	
Land Survey									
	on Mining Claim(s): K-855726				B 9 5701,	K-855737	,		
Required Information eg:	type of equipment, Names, A	ddresses, etc.	(See Tabl	e Below)					
JKS - 300	and LONGYEAR 38			, 					
Triangle D 106 Fieldi R.R. #2 Lively, On	ng Road	RIO GEOLOGI SSESSMEN' OFFICI	T FILES E.	438-8 438-8 438-8 438-8	B7-2 B7-3		650' 350' 400' 400'		
POM 2EO	tario	MAY 19	1988	438-8 438-8	87-5		293' × 349' ×		
	R	ECEI	VED			2	,442'		
August 25, KENORA MINING DIV. D 1: 15 10 1 V 10 MAR 3 1 198 AM 7!00		.8, 1987	Date	of Report		Recorded Hole	der or Agent (Signatura)	
7,8,9,10,11,12,1,2,3,	4.5.6	····	1/	arch 25	1918	Recorded Hold	in T. N	Jann	
Certification Verifying Rep		-1-1-1-1-1-1					'		
or witnessed same during an	a personal and intimate knowledge ad/or after its completion and the			e Report of vi	Ork annexe	o nereto, nevin	g periormed u	ne work	
Name and Postal Address of Pe Dr. Francis T.	erson Certifying Manns, 42 Highfield	Road		4				1	
Toronto, Ontario		1122	277/	Certified	5.1988	Certified by (S	ignature)	/	
<u>'</u>	chments Required by the Mini	ing Recorder		mu c	2/1/00	Trume	2 1. 1. Ja	<u> </u>	
Type of Work	Specific information pe	ir type	Other inf	ormation (Co	mmon to 2	or more types)	Attach	ments	
Manual Work	Alt								
Shaft Sinking, Drifting or other Lateral Work	Nil		manual	ind addresses (work/operate tes and hours (d equipmen	t, together	Work Sketch are require the location	d to show	
Compressed air, other power driven or mechanical equip.	Type of equipment		\ <u>\</u>	3557	126		extent of w	work in	
Power Stripping	Type of equipment and amount Note: Proof of actual cost must		Names and addresses of owner or operator						

within 30 days of recording together with dates when drilling/stripping done. Work Sketch (as above) in duplicate Diamond or other core Signed core log showing; footage, diameter of drilling core, number and angles of holes. Land Survey NII NII Name and address of Ontario land surveyer.