



52C10NE0009 2.13011 BAD VERMILION LAKE

010

2.13011

SEP 09 1990

MINING LANDS SECTION

SUMMARY OF EXPENDITURES

PROJECT #637

CUSTOM FIRE ASSAYING LTD. - Core Assays

<u>Date</u>	<u>No. of samples</u>	<u>Sample #</u>	<u>Invoice #</u>	<u>Total</u>
Aug. 13/87	19	4701 - 4719	6	\$ 209.00
Aug. 17/87	63	4720 - 4782	16	693.00
Aug. 26/87	25	4783 - 4800 18607 - 18606	44	275.00
Sept. 15/87	15	18607 - 18621	8	165.00
				<u>\$1,342.00T</u>

122 Samples @ \$11.00/ea = \$1,343.00

LAKEFIED RESEARCH - Analysis of Pulp

Sept. 28/87	7	4701 - 4704 4707 4711 4725	25005	\$ 501.00
				<u>-----</u>
TOTAL				\$1,843.00T

\$1,843.00 Divided by \$15.00 = 122.86 Man-Days.

Enclosed:

- Drill Logs 437-87-1 to 437-87-6
- Drill Plan - Hole Location
- Claim Map
- Invoices with Proof of Payment.

INVOICE

LAKEFIELD RESEARCH
 A DIVISION OF FALCONBRIDGE LIMITED
 P.O. Box 430, 185 Concession St., Lakefield, Ontario K0L 2H0
 Phone: (705) 652-3341 Telex No. 06 962842

No.: 25005

DATE October 7

19 87

TO: Orofino Resources,
 P.O. Box 143,
 1 First Canadian Place,
 Toronto, Ontario.
 M5X 1C7

SENT TO: F. T. Manns

RE: Our Certificate of Analysis dated Oct. 7, 1987
 Our Reference No. LR 8728228
 Your samples received Sept. 28, 1987

4701 Pulp, Reject
 4702 Pulp, Reject
 4703 Pulp, Reject
 4704 Pulp, Reject
 4707 Pulp, Reject
 4711 Pulp, Reject
 4725 Reject

13	Cu	x	\$ 9.00	\$ 117.00
13	Pb	x	9.00	117.00
13	Zn	x	9.00	117.00
13	Mo	x	9.00	117.00
6	Samples Pulverized only at 2.00			12.00
7	Samples Crushed and Pulverized at 3.00			21.00
Collect Freight Charges Ont. Northland (315-293429)				9.90

Total

\$ 510.90

437-043
 Francis T. Manns
 Oct 22, 1987



P.O. Box 430, 185 Concession St., Lakefield, Ontario, Can. K0L 2H0
Phone: (705) 652-3341 Telex No. 06 962842

CERTIFICATE OF ANALYSIS

FROM: Orofino Resources,
P.O. Box 143,
1 First Canadian Place,
Toronto, Ontario.
M5X 1C7

Date: Oct. 7, 1987
Received: Sept. 28, 1987
Our Reference No.: LR 8728228
Your Reference No.: _____
Invoice No.: 25005

Samples submitted to us show results as follows:

Sample No.		% Cu	% Pb	% Zn	% Mo
4701	Pulp	0.005	0.002	<0.002	<0.002
	Reject	0.002	0.002	<0.002	<0.002
4702	Pulp	0.007	<0.002	0.002	<0.002
	Reject	0.002	<0.002	0.002	<0.002
4703	Pulp	0.006	<0.002	0.002	<0.002
	Reject	0.002	<0.002	0.002	<0.002
4704	Pulp	0.007	<0.002	0.002	<0.002
	Reject	0.002	<0.002	0.002	<0.002
4707	Pulp	0.011	0.055	0.046	<0.002
	Reject	0.010	0.069	0.073	<0.002
4711	Pulp	0.004	0.003	0.002	<0.002
	Reject	<0.002	0.002	0.002	<0.002
4725	Reject	0.002	<0.002	0.002	<0.002

437-043
Francis T. Manns
Oct 22, 1987

To: F. T. Manns

SIGNED  MANAGER

A. E. Carr, Manager - Assay Services

NOTE: Rejects will be discarded after 6 months.

INVOICE

LAKEFIELD RESEARCH
 A DIVISION OF FALCONBRIDGE LIMITED
 P.O. Box 430, 185 Concession St., Lakefield, Ontario K0L 2H0
 Phone: (705) 652-3341 Telex No. 06 962842

No.: **25005**

DATE **October 7**

19 87

TO: Orofino Resources,
 P.O. Box 143,
 1 First Canadian Place,
 Toronto, Ontario.
 M5X 1C7

SENT TO: F. T. Manns

RE: Our Certificate of Analysis dated Oct. 7, 1987
 Our Reference No. LR 8728228
 Your samples received Sept. 28, 1987

4701 Pulp, Reject
 4702 Pulp, Reject
 4703 Pulp, Reject
 4704 Pulp, Reject
 4707 Pulp, Reject
 4711 Pulp, Reject
 4725 Reject

13	Cu	x	\$ 9.00	\$ 117.00
13	Pb	x	9.00	117.00
13	Zn	x	9.00	117.00
13	Mo	x	9.00	117.00
6	Samples Pulverized only at 2.00			12.00
7	Samples Crushed and Pulverized at 3.00			21.00
Collect Freight Charges Ont. Northland (315-293429)				9.90

Total

\$ 510.90

*437-043
 Francis T. Manns
 Oct 22, 1987*

OROFINO RESOURCES LIMITED

TORONTO, CANADA

0002420

Oct. 22 1987

PAY

\$ 510.90

The sum of 510 and 90/100

OROFINO RESOURCES LIMITED

TO THE ORDER OF

Lakefield Research
A Division of Falconbridge Limited
P.O. Box 430, 185 Concession St.
Lakefield, Ontario K0L 2H0

PER A. J. D. U. S.

PER NOT NEGOTIABLE

THE TORONTO-DOMINION BANK
55 KING ST. W. & BAY ST.
TORONTO, M5K 1A2 CANADA

OROFINO RESOURCES LIMITED - REMITTANCE ADVICE

PLEASE DETACH BEFORE DEPOSITING

	DEBIT		CREDIT	
	AC		AC	
Re: Inv. # 25005	437-043	510 90		

FILE COPY

CUSTOM FIRE ASSAYING LTD.
 BOX 253
 COCHENOUR, ONTARIO POV 1L0

Date Aug 23 1987
 M. D. Fire Assaying Ltd.

SOLD BY	C.O.D.	CHARGE	ON ACCT.	ACCT. FWD.
1		Start Aug 3 rd		579.00
2		Start Aug 6 th		209.00
3				745.00
4				
5		Post # 437		
6				
7				
8		437-023	384.00	
9		437-043	209.00	
10		438-023	152.00	
11				
12				\$ 745.00
13				
14		Franz. Mann		
15		20 August 1987		

6

RECIFORM - 8822E

THE FACE OF THIS DOCUMENT HAS A COLORED BACKGROUND NOT A WHITE BACKGROUND

**OROFINO RESOURCES
LIMITED**
TORONTO, CANADA

0002040

Aug. 21 19 87

PAY

~~The sum of 957 dollars 85 cts~~ \$ 956.85

OROFINO RESOURCES LIMITED

TO
THE
ORDER
OF

Custom Fire Assaying Ltd.
Box 253
Cochesour, Ontario
POV 1L0

PER A J. C. M. L.

PER ~~NON NEGOTIABLE~~

THE TORONTO-DOMINION BANK
55 KING ST. W. & BAY ST.
TORONTO, M5K 1A2 CANADA

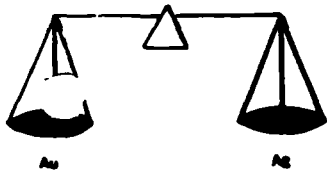
OROFINO RESOURCES LIMITED - REMITTANCE ADVICE

PLEASE DETACH BEFORE DEPOSITING

Re: Inv. #
46 & 6

426-023	210 85
437-023	384 00
437-043	209 00
438-023	152 00

FILE COPY



PAUL'S CUSTOM FIRE ASSAYING LTD.

Phone: Bus. (807) 662-8171
Res. (807) 662-3361

PAUL OKANSKI, Assayer
Box 253, Cochenour, Ontario P0V 1L0

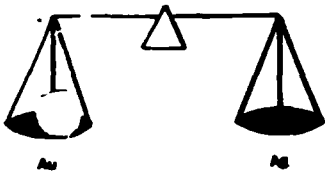
Orofino Resources Ltd.

ASSAY CERTIFICATE

Date: Aug. 13-87

Sample No.	Description	oz/ton Au	oz/ton Ag
1 - 4709	Proj. #437	Trace	NIL
2 - 10		"	"
3 - 11		"	.55
4 - 12		"	NIL
5 - 13		"	"
6 - 14		"	"
7 - 15		"	"
8 - 16		"	"
9 - 17		"	"
10 - 18		"	"
11 - 19		"	"
12			X
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			

Assayer: *Paul Okanski*



PAUL'S CUSTOM FIRE ASSAYING LTD.

Phone: Bus. (807) 662-8171
Res. (807) 662-3361

PAUL OKANSKI, Assayer
Box 253, Cochenour, Ontario POV 1L0

Orofino Resources Ltd.

ASSAY CERTIFICATE

Date: Aug. 13-87

Sample No.	Description	oz/ton Au	oz/ton Ag
1 - 9434	Proj. #437	Trace	
2 - 35		"	
3 - 36		"	
4 - 37		"	
5 - 38		.04	
6 - 39		Trace	
7 - 40		"	
8 - 41		.36	
9 - 42		Trace	
10 - 43		"	
11 - 44		"	
12 - 45		"	
13 - 46		"	
14 - 47		"	
15 - 48		"	
16 - 49		"	
17 - 50		.04	
18 - 4701		Trace	.40
19 - 02		"	.64
20 - 03		"	NIL
21 - 04		"	.40
22 - 05		"	NIL
23 - 06		"	"
24 - 07		.06	.50
25 - 08		Trace	NIL

Assayer:

Paul Okanski

CUSTOM FIRE ASSAYING LTD.
 BOX 253
 COCHENOUR, ONTARIO POV 1L3

Date AUG 26 1987
 M. CUSTOM FIRE ASSAYING LTD

SOLD BY	C.O.D.	CHARGE	ON ACCT.	ACCT. PWD.
1		<u>11 SP...</u>		<u>33 00</u>
2		<u>22 SP...</u>		<u>23 00</u>
3				<u>353 00</u>
4		<u>FRIE...</u>		<u>23 63</u>
5		<u>RE...</u>		<u>374 63</u>
6		<u>T...</u>		
7				
8				
9				
10				
11				
12				
13				
14				
15				

010437-043

15-9-87

44

**OROFINO RESOURCES
LIMITED**
TORONTO, CANADA

SEP. 20 19 87

PAY

Amount \$ 376.63

\$ 376.63

OROFINO RESOURCES LIMITED

TO
THE
ORDER
OF

Custom Fire Assaying Ltd.
Box 253
Cochranour, Ontario
POV 1L0

THE TORONTO-DOMINION BANK
50 KING ST. W. & BAY ST.
TORONTO, M5K 1A2 CANADA

PER A. J. W. J.

NOT NEGOTIABLE

OROFINO RESOURCES LIMITED - REMITTANCE ADVICE

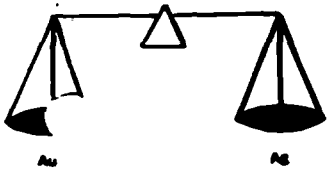
PLEASE DETACH BEFORE DEPOSITING

Re: Inv. # 44

437-043

376 63

FILE COPY



PAUL'S CUSTOM FIRE ASSAYING LTD.

Phone: Bus. (807) 662-8171
Res. (807) 662-3361

PAUL OKANSKI, Assayer
Box 253, Cochenour, Ontario P0V 1L0

SEP - 4 1987

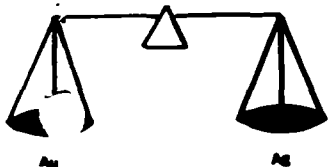
Orofino Resources Ltd.

ASSAY CERTIFICATE

Date: Aug. 26, 1987.

Sample No.	Description	oz/ton Au	oz/ton Ag
1 777	Proj. # 437 <i>Trace Grab</i>	Trace	
2 78		"	
3 79		"	
4 80		.01	
5 81		.01	
6 82		Trace	
7 83		"	
8 84		"	
9 85		"	
10 4835		"	
11 36		"	
12 4783	/	Trace	XXXX NIL
13 84	/	"	"
14 85	/	"	"
15 86	/	"	"
16 87	/	.01	"
17 88	/	Trace	"
18 89	/	"	"
19 90	/	"	"
20 91	/	"	"
21 92	/	"	"
22 93	/	"	"
23 94	/	"	"
24 95	/	"	"
25 96-A	/	"	(1.00

Assayer:



PAUL'S CUSTOM FIRE ASSAYING LTD.

Phone: Bus. (807) 662-8171
Res. (807) 662-3361

PAUL OKANSKI, Assayer
Box 253, Cochenour, Ontario P0V 1L0

Orofino Resources Ltd.

ASSAY CERTIFICATE

Date: Aug. 26, 1987.

Sample No.	Description	oz/ton Au	oz/ton Ag
1 4796-B	Proj. #437	.01	1.18
2 97		Trace	NIL
3 98		"	"
4 99		"	"
5 4800		"	"
6 18601		"	"
7 02		"	"
8 03		"	"
9 04		"	"
10 05		"	"
11 06		"	"
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			

Assayer: *Paul Okanski*

CUSTOM FIRE ASSAYING LTD.
 BOX 253
 COCHENOUR, ONTARIO P0V 1L0

Date Aug 17 1957

M. U.P.C. Fire Assaying

SOLD BY	C.O.D.	CHARGE	ON ACCT.	ACCT. FWD.
1		<u>1000</u>		<u>1000</u>
2		<u>FR 237</u>		<u>237</u>
3				<u>237</u>
4				
5		<u>FR 237</u>		
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				

Francis T. Mann
 437-045
 August 28, 1957

**OROFINO RESOURCES
LIMITED**
TORONTO, CANADA

0002117

SEP. 3 19 87

PAY

722.70

\$ 722.70

OROFINO RESOURCES LIMITED

TO THE ORDER OF Paul's Custom Fire Assaying Ltd.
Box 253
Cochran, Ontario
POY 1L0

PER A J W

NOT NEGOTIABLE

THE TORONTO-DOMINION BANK
55 KING ST. W. & BAY ST.
TORONTO, M5K 1A2 CANADA

OROFINO RESOURCES LIMITED - REMITTANCE ADVICE

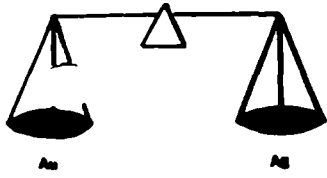
PLEASE DETACH BEFORE DEPOSITING

Re: Inv. # 16 Dated
Aug. 17/87

437-043

722 70

FILE COPY



PAUL'S CUSTOM FIRE ASSAYING LTD.

Phone: Bus. (807) 662-8171
Res. (807) 662-3361

PAUL OKANSKI, Assayer
Box 253, Cochenour, Ontario POV 1L0

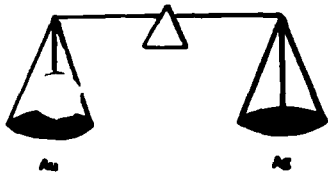
Orofino Resources Ltd.

ASSAY CERTIFICATE

Date: Aug. 17-87

	Sample No.	Description	oz/ton Au	oz/ton Ag
1	4720	Proj. #437	Trace	NIL
2	21		"	"
3	22		"	"
4	23		"	"
5	24		"	"
6	25		.04	"
7	26		Trace	"
8	27		"	"
9	28		"	"
10	29		"	"
11	30		"	"
12	31		"	"
13	32		"	"
14	33		"	"
15	34		"	"
16	35		"	"
17	36		"	"
18	37		"	"
19	38		"	"
20	39		"	"
21	40		"	"
22	41		"	"
23	42		"	"
24	43		"	"
25	44		"	"

Assayer: *Paul Okanski*



PAUL'S CUSTOM FIRE ASSAYING LTD.

Phone: Bus. (807) 662-8171
Res. (807) 662-3361

PAUL OKANSKI, Assayer
Box 253, Cochenour, Ontario POV 1L0

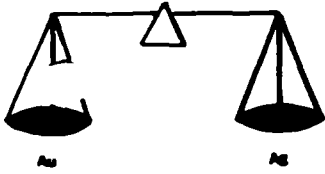
Orofino Resources Ltd.

ASSAY CERTIFICATE

Date: Aug. 17-87

	Sample No.	Description	oz/ton Au	oz/ton Ag
1	4745	Proj. #437	Trace	NIL
2	46		"	"
3	47		"	"
4	48		"	"
5	49		"	"
6	50		"	"
7	51		"	"
8	52		"	"
9	53		"	"
10	54		"	"
11	55		"	"
12	56		"	"
13	57		"	"
14	58		"	"
15	59		"	"
16	60		"	"
17	61		"	"
18	62		"	"
19	63		"	"
20	64		"	"
21	65		"	"
22	66		"	"
23	67		"	"
24	68		"	"
25	69		"	"

Assayer: *Paul Okanski*



PAUL'S CUSTOM FIRE ASSAYING LTD.

Phone: Bus. (807) 662-8171
Res. (807) 662-3361

PAUL OKANSKI, Assayer
Box 253, Cochenour, Ontario P0V 1L0

Orofino Resource Corp. Ltd.

ASSAY CERTIFICATE

Date: Aug. 17-87

Sample No.	Description	oz/ton Au	oz/ton Ag
1	4770 Proj. #437	Trace	NIL
2	71	"	"
3	72	"	"
4	73	"	"
5	74	"	"
6	75	"	"
7	76	"	"
8	77	"	"
9	78	"	"
10	79	"	"
11	80	"	"
12	81	"	"
13	82	"	"
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			

Assayer: *Paul Okanski*

CUSTOM FIRE ASSAYING LTD.
 BOX 255
 COCHENOUR, ONTARIO POV 1L0

Date: SEPT 15 1957
 M. DR. FIRE RESOURCES

SOLD BY	C.O.D.	CHARGE	ON ACCT.	ACCT. FWD.
1		3 AMP. P. 1100		165.00
2		2 AMP. P. 1100		24.00
3				187.00
4		F. A. I. E. M. T.		20.00
5				757.30
6				
8		83% FF 437-023		173.72
8		87% 438-023		35.58
10				209.30
11				
12				
13				987
14				
15				

8-14-57
 Sept 22, 1957

**OROFINO RESOURCES
LIMITED**
TORONTO, CANADA

Sept. 24 19 82

PAY

Balance of 905 and 30 cts

\$ 905.30

OROFINO RESOURCES LIMITED

TO THE ORDER OF Paul's Custom Fire Assaying Ltd.
Box 253
Cochranour, Ontario
POV 1L0

PER A. J. J. U. S.

NOT NEGOTIABLE

THE TORONTO-DOMINION BANK
55 KING ST. W. & BAY ST.
TORONTO, M5K 1A2 CANADA

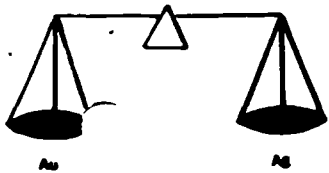
OROFINO RESOURCES LIMITED - REMITTANCE ADVICE

PLEASE DETACH BEFORE DEPOSITING

Re: Inv. # 8& 12

435-023	696	00
437-023	173	72
438 023	35	58

FILE COPY



PAUL'S CUSTOM FIRE ASSAYING LTD.

Phone: Bus. (807) 662-8171
Res. (807) 662-3361

PAUL OKANSKI, Assayer
Box 253, Cochenour, Ontario P0V 1L0

Orofino Resources Limited **ASSAY CERTIFICATE**

Date: Sept. 15, 1987.

	Sample No.	Description	oz/ton Au	oz/ton Ag
1	18607	Proj. #437	Trace	Nil
2	08		"	"
3	09		"	"
4	10		"	"
5	11		"	"
6	12		"	"
7	13		"	"
8	14		"	"
9	15		.01	"
10	16		Trace	"
11	17		.02	"
12	18		Trace	"
13	19		"	"
14	20		"	"
15	21		"	"
16	786		.04	
17	87		.18	
18	88		Trace	
19				
20				
21				
22				
23				
24				
25				

Assayer *Paul Okanski*

OROFINO

RESOURCES LIMITED

P.O. BOX 143, 1 FIRST CANADIAN PLACE, TORONTO, CANADA M5X 1C7 TELEPHONE: (416) 362-8803 TELEFAX: (416) 317-7766

DRILL LOG

DESCRPTION
NOTE: All angles are measured with respect to the long core axis.

Property: VERMILION LAKE #437
Location: 28+785; 4+17W
Co-ordinates:
Claim: K-875544
Section:
Length: 149'
Elevation:
Azimuth: 075°
Dip: -45°

HOLE: 437-87-1
Core size: BQ
DIP Tests: None
Started: August 2, 1987
Completed: August 3, 1987
Logged by: Mary Sealer

DEPTH	FROM	TO	CASSING	ASSAYS					
				Au oz/t	Ag oz/t				
0.0	14.0	57.5	<p>13.0-14.0 Cronhjemsite and microgranite/aplite boulders (broken core)</p> <p>MASSIVE TROMDLJEITTE</p> <ul style="list-style-type: none"> -mainly qtz and feldspar with distinct grains of chlorite and some biotite and carbonate in blebs throughout, chlorite may be from alt. of biotite, feldspar moderately sauses'sed -occasional hairline fractures (e35° and e70°) often filled with chlorite -unit includes small sections of weakly to moderately altered Cronhjemsite which gives the chlorite and biotite fuzzy grain boundaries instead of their original distinct look, plagioclase is more strongly sauses'sed, start to get qtz eyes, core is more frequently fractured - these sections are found at 14.1-14.5' (with 5% disseminated fine grain pyrite throughout zone); 19.6-20.1 24.1-25.7'; 28.5-29.0'; 37.0-37.9' (with 2 qtz/carbonate string of 1/8" -- 70°); 41.9-42.4' (with 1 wispy and 1 regular (55°) 1/8" chlorite string); 43.2-43.8'. <p>14.0-14.1 APLITE DYKE</p> <ul style="list-style-type: none"> -pink, fine grain, sugary texture with minor epidote -sharp, regular bottom contact (60°) (core begins in aplite therefore top contact not observed) -5% fine grain disseminated pyrite <p>15.0-16.7 MICROGRANITE/APLITE DYKE</p> <ul style="list-style-type: none"> -pink, sugary texture, from 15.0-15.6 all components of dyke (qtz, feldspar biotite, chlorite and epidote) are fine grain, from 15.6-16.7 matrix is fine but have coarse qtz eyes, coarse well sauses'sed feldspar, coarse biotite and chlorite -both contacts sharp, regular (50°) -many hairline fractures filled with chlorite, qtz or both (35°) -with occasional medium grain euhedral pyrite grains mostly in fine grain part of dyke (1%) 	4701	1.7	15.0	16.7	Tr	0.40

J. T. Moore

DEPTH	DESCRIPTION	sample number	width	from	to	ASSAYS	
						Au oz/c	Ag oz/c
57.5	<p style="text-align: center;">NOTE: All angles are measured with respect to the long core axis.</p> <p style="text-align: center;">14.0-57.5 MASSIVE TRONDHJEMITE (cont'd)</p> <p>26.6-30.1 GRANDIORITE -similar to rest of unit but plagioclase is pink to creamy (instead of beige) and plagioclase grains are distinct euhedra up to 1/8"</p> <p>47.2-48.0 GRANDIORITE -same as 26.6-30.1</p> <p style="text-align: center;">WEAKLY TO MODERATELY SHEARED TRONDHJEMITE</p> <p>-the trondhjemite loses the distinct boundaries of the biotite and chlorite grains, has occasional qtz eyes and is more frequently fractured than the massive trondhjemite</p> <p>-most of unit moderately foliated (90°)</p> <p>-carbonate disseminated throughout</p> <p>-hairline fractures (35, 60-75) filled with carbonate or chlorite or both</p> <p>-small euhedral cubes of pyrite (1x)</p> <p>-contact is gradual and was picked due to an increase of altered section although massive sections can be found at 63.5-64.9'; 68.2-68.9'; 70.4-71.0'</p> <p>-small intervals (<2") of strongly sheared non-carbonate trondhjemite become more common towards bottom of hole</p>						
74.5	<p style="text-align: center;">STRONGLY SHEARED TRONDHJEMITE</p> <p>-light green, highly sericitized, highly saused trondhjemite, qtz eyes (1/8") make up a major amount of unit increasing with increasing shearing</p> <p>-only occasional distinct grain of biotite or chlorite</p> <p>-occasional foliation is observed (90°)</p> <p>-with many fractures and stringers up to 1/8" (55-70°) filled mainly with carb. -occasional fine euhedral cubes of pyrite or fine grain pyrite in blebs (1x)</p> <p>75.5-75.8 -1/4" grainy clear qtz stringers</p> <p>76.4 -1/4" grainy clear qtz stringers (90°) with graphitic flakes</p> <p>76.4-77.1 -APLITE DYKE 1/4" pink, medium grain, sugary dyke (20°) with 1x pyrite as medium grain euhedral cubes, more pyrite in wallrock surrounding dyke</p> <p>77.1-77.4 -rusty, broken, weathered looking core, some ankerite staining -fault gouge?</p> <p>77.7-77.9 -APLITE DYKE same as 76.4-77.1 but end cut by fracture</p> <p>78.0 -1/4" white qtz stringers</p> <p>86.0-86.6 -well foliated section (45° to 50°) with many 1/4" qtz and qtz/carb stringers following foliation, many carb blebs (1/4")</p>	4702 4703 4704 4705	2.0 2.0 5.5 2.6	74.5 76.5 78.5 84.0	76.5 78.5 84.0 86.6	TE TE TE TE	0.64 NIL 0.40 NIL

OROFINO

RESOURCES LIMITED

P.O. BOX 143, FIRST CANYON PLACE, TORONTO, CANADA M8X 1C7 TELEPHONE: (416) 362-6603 TELEX: 06-217706

DRILL LOG

Property: VERMILLION LAKE #437

Location: #11 vein

Co-ordinates:

Claim: K-875547

Section:

Length: 159'

Elevation:

Azimuth: 255°

Dip: -45°

HOLE: 437-87-3

Core size: BQ

Dip Tests: None

Started: August 5, 1987

Completed: August 6, 1987

Logged by: D. Burrows

DESCRIPTION

NOTE: All angles are measured with respect to the long core axis.

DEPTH
From to

0.0 12.2

12.2 54.0

CASING

POLYMETIC ORTHOCONGLOMERATE

-clasts up to 0.8' generally well rounded subangular
-clasts of mafic volcanics, carbonated mafic volcanics, lapilli tuff, intermediate intrusive, small red jaspers
-one clast of laminated pyrite (crystal sphalerite) at 45.6'
-matrix fine grained dominantly chlorite, variable to medium grained with 1-3mm carbonated lapilli (?)
-approx 1-2% pyrite with some zones with higher sulphide content at 39.0-40.0 and 44.9-45.9
-also patches with rutile in matrix w/0.0-41.0'; all conglomerate reacts strongly with acid

50.9-52.6 -altered though massive chloritized and carbonatized trond/ton

-at 51.0' sharp contact of trond/ton with conglomerates - portions of contact appear to have clasts in trond, or it is a cut of an irregular section

53.4-54.0 -main contact sharp though slightly diffuse, some rounded clasts of pyrite with spherical radial structure; contact at 10'

-contact probably unconformity, though no weathering horizon, etc.
-50.9-52.6 could therefore be large clast or possibly a dyke of ton

HEAVILY SHEARED AND ALTERED TRONDHJEMITE/TON

-weakly sheared and altered (weak to moderate) trond/ton-chlorite-qtz-carbonated plagioclase-rutile

64.0-64.8 -5' shear with 2-3mm abraded selvage

54.0 65.0

sample number	width	from	to	ASSAYS	
				Au oz/c	Ag oz/c
4765	5.0	39.0	44.0	Tr.	MLL
4766	5.0	44.0	49.0	Tr.	MLL
4767	5.0	49.0	54.0	Tr.	MLL

DEPTH	FROM	TO	ASSAYS							
			Au oz/t	Ag oz/t						
65.0	69.5									
<p style="text-align: center;">DESCRIPTION</p> <p style="text-align: center;">NOTE: All angles are measured with respect to the long core axis.</p>										
69.5	80.0									
<p>MASSIVE TRONDJEHYTE/TOM -good igneous texture, although feldspar to apple green sericite; no shearing 66.0-68.0 -slightly increased sericitization of trond/ton -include 3mm 50° qtz stringers at 66.2' and pyritized shear at 67.0'</p>										
80.0	89.0									
<p>MASSIVE TRONDJEHYTE/TOM -weakly altered massive trond/ton, still reflect igneous texture qtz, sericitized plagioclase after biotite 75.1-75.7 -minor carb stringers associated in first case with 45° shear</p>										
89.0	98.7									
<p>MASSIVE TRONDJEHYTE/TOM -but increased chloritic and sericitic alteration (moderate) relative to last section -at 84.7' 50° 1cm apilite cut by 35° shear dipping other way - 3cm normal movement</p>										
98.7	110.0									
<p>MODERATELY SHEARED TRONDJEHYTE VEIN -increased shearing and loss of igneous texture, also increase in degree of sericitic alteration (moderate) and discrete 45-50° shears/microfractures -at 91.8' 4mm 40° qtz vein -at 98.5' 2-3mm 40° qtz-courmalina(?) stringers -section has 4 1/2°, except at 96.0' onwards to 1x pyrite</p>										
110.0	113.2									
<p>MODERATE TO STRONG SHEARING -associated with strong sericitization and loss of igneous texture 20°-40° microfractures (with carb stringers); 1/2 to 1x pyrite (less than previous section)</p>										
<p>STRONG SHEARING -distinct mottled texture - qtz eyes in chlorite/sericite matrix; 1/2-1x pyrite -some microfractures with increased sulphides -at 109.3' 45° pyrite -at 110.8' 55° pyrite and galena -at 113.4' 90° pyrite only</p>										
			4768	5.0	96.0	101.0	Tc.	N11		
			4769	5.0	101.0	106.0	Tc.	N11		
			4770	5.0	106.0	111.0	Tc.	N11		
			4771	2.0	111.0	113.0	Tc.	N11		

ASSAY SUMMARIES

HOLE NUMBER	FOOTAGE		SAMPLE NUMBER	ASSAYED Wt:			VALU E		R E F E R E N C E:			Re-Assayed SAMPLE NUMBER	ASSAYED Wt:			VALU E		
	From	to		BW	SW	XR	THR	Au	Ag	Drill Log	Sample		Assay	BW	SW	XR	THR	Au
37-87-2	191.5	196.5	4758					Tr.	Nil	X	X	X						
	205.5	207.0	4759					"	"	"	"	"						
	207.0	209.0	4760					"	"	"	"	"						
	220.0	222.0	4761					"	"	"	"	"						
	222.0	225.0	4762					"	"	"	"	"						
	225.0	229.0	4763					"	"	"	"	"						
	229.0	231.0	4764					"	"	"	"							

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Hole No. 437-87-2

Page 4 of 5

DEPTH from	to	DESCRIPTION	sample number	width	from	to	ASSAYS	
							Au oz/c	Ag oz/c
160.9	170.2	<p>STROONGLY SHEARED AND ALTERED TRONDHJEMITE/TON</p> <p>-muticly appearance due to qtz phenocrysts in a sericite/chlorite matrix</p> <p>-transitional into less sheared material with some relict igneous texture</p> <p>-generally 51% pyrite</p> <p>161.2-162.6 1.4' qtz vein dipping 045° (good crystal growth faces - F.I.'s)</p> <p>open face filling</p> <p>variable dip downhill side ~05° - minor 2-3% pyrite, cpy</p> <p>167.1-167.2 qtz vein - no sulphides</p> <p>168.35-168.4 35 1.5cm qtz-carb-pofpytrondhjemite?</p>	4749	2.0	161.0	163.0	Tc.	N11
			4750	5.0	163.0	168.0	Tc.	N11
			4751	5.0	168.0	173.0	Tc.	N11
170.2	187.0	<p>STRONGLY SHEARED AND ALTERED TRONDHJEMITE/TON</p> <p>-same as 160.9-170.2 but increased 30-50° microfissures (abittised) and 1-2mm qtz carb stringers and 1-2% pyrite</p> <p>-at 180.0-184.0 shows intense shearing with discrete shear and fabric ~045°</p> <p>173.9-175.5 1 1/2 qtz vein dipping 026°; minor carb and margins; 1-2% pyrite, no other sulphides</p> <p>179.3-179.9 120 8mm qtz vein - no sulphides, but pyrite is altered micro-fractured trondhjemite/con</p> <p>184.6-185.4 025 at top, irregular 045° base; qtz vein; very minor pyrite or allichensides</p>	4752	3.0	173.0	176.0	Tc.	N11
			4753	5.0	176.0	181.0	Tc.	N11
			4754	3.0	181.0	184.0	Tc.	N11
			4755	2.0	184.0	186.0	Tc.	N11
			4756	3.5	186.0	189.5	Tc.	N11
187.0	199.6	<p>MODERATE ALTERED TRONDHJEMITE</p> <p>-transitional from more altered trond/con</p> <p>-some relict plg grains, though still moderate sericite/chloritic alteration</p> <p>-approx 1% pyrite</p> <p>189.8-190.0 45° qtz-pyrite (coarse) vein</p> <p>191.0 2cm qtz vein at 35°</p> <p>196.0-198.5 zone of increased sericitisation and loss of texture</p>	4757	2.0	189.5	191.5	Tc.	N11
			4758	5.0	191.5	196.5	Tc.	N11
199.6	231.2	<p>MODERATE ALTERED TRONDHJEMITE</p> <p>-as 187.0-199.6</p> <p>-weak to moderate chloritic/sericitic alteration of relatively massive trond/con</p> <p>-from 215.5-224.0 shows alightly increased alteration with 12 qtz-cc micro-fractures spaced ~5-10cm</p> <p>205.7-205.8 35° qtz-carb 2-3% fine pyrite (3cm) - sphalerite (?)</p> <p>207.4-208.3 6mm 0° → 20° curved veinlet qtz-carbonate</p>	4759	1.5	205.5	207.0	Tc.	N11
			4760	2.0	207.0	209.0	Tc.	N11
			4761	2.0	220.0	222.0	Tc.	N11
			4762	3.0	222.0	225.0	Tc.	N11

D E S C R I P T I O N

NOTE: All angles are measured with respect to the long core axis.

DEPTH from to	DESCRIPTION	sample number	width	from	to	ASSAYS	
						Au oz/t	Ag oz/t
	NOTE: All angles are measured with respect to the long core axis.						
	199.6-231.2 MODERATE ALTERED TRONDHJEMITE (cont'd)						
	220.7-221.2 0.2° 5 1/2' vein qtz-carb, minor (41%) sphalerite and pyrite	4763	4.0	225.0	229.0	Tr.	N11
	229.2-229.4 0° 3mm stringer to rare - 220						
	229.6-229.7 irregular patches of qtz-carbonate	4764	2.0	229.0	231.0	Tr.	N11
	230.1 0.37° 3cm qtz vein - no sulphides observed						
	7cm 0.35° qtz						
231.2	END OF HOLE						

DEPTH		DESCRIPTION	sample number	width	from	to	ASSAYS	
From	to						Au oz/c	Ag oz/c
45.5	106.0	<p>MASSIVE TRONDHJEMITE</p> <p>-showing variable degree of alteration</p> <p>45.5-49.0 weak chloritization and sausa'sation with minor (discrete) zones of strong shearing and alteration</p> <p>49.0-51.4 weak-moderate alteration (chloritization and sericitization)</p> <p>51.4-54.2 increased sericitization associated with 1-2mm microfractures with 1-3mm albicization selvage</p> <p>-at 59.4' 40° 1cm qtz-carbonate veinlets, 1-1.5mm cubes of pyrite adjacent to vein</p> <p>62.0-64.0 moderate albicization of trondhjemite as a result of irregular microfractures, increased pyrite</p>	4733	5.0	70.2	75.2	Tr.	Nil
70.2	106.0	<p>REGION OF MODERATE TO STRONG SHEARING</p> <p>-and chloritization within more massive trondhjemite above and below; 1-2% disseminated pyrite OR may be more mafic phase (i.e. tonalite)</p> <p>-at 70.6' 20° chlorite-qtz shear/vein</p> <p>73.5-83.4 minor 30-50° 1mm qtz-carb stringers, with pyrite at 79.2' & 82.0'</p> <p>100.2-102.0 slightly increased sericitization</p> <p>-at 101.7' 1-2mm 15° carbonate stringers</p> <p>105.0-106.0 minor carbonate stringers at 60-70°</p> <p>-section overall no significant (re: trace) pyrite</p>	4734 4735 4736 4737 4738	2.5 1.0 2.5 1.0 2.5	106.0 110.0 116.5 119.0 120.0	108.5 111.0 119.0 120.0 122.5	Tr. Tr. Tr. Tr. Tr.	Nil Nil Nil Nil Nil
106.0	122.5	<p>MODERATELY SHEARED TRONDHJEMITE</p> <p>-acate to loose igneous texture</p> <p>-at 106.7' 90° silicified microfractures with pyrite</p> <p>106.0-108.0 1-2% disseminated pyrite</p> <p>110.3-110.9 two qtz-carb, minor tourmaline-cpy-py, qtz veins at 101.3 (1cm, 30°) and at 101.6' (20° irregular)</p> <p>119.4-119.8 2-3cm 25° qtz vein; 1-2cm clots of po, py very minor cpy, sphalerite and galena</p> <p>-at 121.2' 3mm qtz-pyrite 45° vein</p> <p>-at 121.8' 1cm qtz-pyrite 40° vein</p>						

D E S C R I P T I O N

NOTE: All angles are measured with respect to the long core axis.

DEPTH / from to	D E S C R I P T I O N NOTE: All angles are measured with respect to the long core axis.	sample number	width	from	to	ASSAYS		
						Au oz/c	Ag oz/l	
122.5	130.0	RELATIVELY MASSIVE TRONDHJEMITE -no pyrite evident, relic igneous texture (see: plag. grains -moderate to strong chloritization/sericitization) -at 124.3' 50° 2-3mm carbonate stringers -at 126.1' 2cm qtz-po-pyrite qtz vein -- no wallrock alteration 126.6-127.3 45° 7cm qtz vein with few percentage cpy-po-pyrite -none qtz stringers over 20' (106.0-126.0)	4739	2.0	125.5	127.5	Tr.	Nil
130.0	136.9	STRONGLY SHEARED TRONDHJEMITE -trace pyrite 130.0-132.3 strongly sericitized .5-1x pyrite 132.3-133.3 qtz ± chlorite vein minor pyrite, cpy-irregular sheared contact with trondhjemite	4740 4741	2.0 1.0	130.0 132.3	132.0 133.3	Tr. Tr.	Nil Nil
136.9	141.9	QUARTZ VEIN -five feet at 30-50°; coarse clots of sulphides -sphalerite and pyrite at 139.3' -3cm pyrite clot at 139.7' -wallrock inclusion (1-2x disseminated pyrite) at 137.4-138.5' -possible minor galena with sphalerite clots at 139.3'	4742 4743	2.5 2.5	136.9 139.4	139.4 141.9	Tr. Tr.	Nil Nil
141.9	160.9	STRONGLY SHEARED AND ALTERED TRONDHJEMITE -as 130.0-136.9' -second stringer zone; ~7-8 per 20' -at 143.1' 50g qtz carbonate stringers 070° and 20° -at 144.5' 50° fracture with strong carbonate all over 3cm -at 145.6' 2mm 055° qtz with albite/sericite alteration - no sulphides -at 148.6' 1cm qtz-carbon 015° - good pyrite at edges -at 149.7' 1cm carbonate (4 qtz) with hematite alteration 025° 151.0-151.1 two 35° 5-lcm qtz-pyrite vein 153.0-153.2 sphalerite calcite 40° associated with increased shearing 156.0-156.4 qtz-carbonate veining in strong sheared trondhjemite/ton 159.7-159.8 irregular qtz patches 160.1-160.5 045° qtz (± carb) vein -- minor py on internal shear	4744 4745 4746 4747 4748	5.0 5.0 2.5 2.5 2.0	141.9 146.9 151.9 154.4 159.0	146.9 151.9 154.4 156.9 161.0	Tr. Tr. Tr. Tr. Tr.	Nil Nil Nil Nil Nil

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ASSAY SUMMARIES

R.L. HOLE NUMBER	FOOTAGE		SAMPLE NUMBER	ASSAYED BY: CUSTOM P.A.			VALU E		R E F E R E N C E :			Re-Assayed SAMPLE NUMBER	ASSAYED BY:			VALU E		
	From	to		BY	SV	XR	THR	Au oz/c	Ag oz/c	Drill Log	Sample		Assay Result	BY	SV	XR	THR	Au oz/c
437-67-1	1.7	15.0	4701															
	74.5	76.5	4702					0.40		X	X	X						
	76.5	78.5	4703					0.64		"	"	"						
	78.5	84.0	4704					Nil		"	"	"						
	84.0	86.6	4705					"		"	"	"						
	86.6	88.5	4706					"		"	"	"						
	88.5	90.5	4707					0.50		"	"	"						
	90.5	91.5	4708					"		"	"	"						
	91.5	93.5	4709					"		"	"	"						
	93.5	95.7	4710					"		"	"	"						
	95.7	97.5	4711					"		"	"	"						
	97.5	100.0	4712					0.55		"	"	"						
	100.0	102.5	4713					"		"	"	"						
	102.5	106.2	4714					"		"	"	"						
	106.2	107.5	4715					"		"	"	"						
	107.5	112.5	4716					"		"	"	"						
	112.5	117.5	4717					"		"	"	"						
117.5	123.0	4718					"		"	"	"							
123.0	123.9	4719					"		"	"	"							

OROFINO

RESOURCES LIMITED

P.O. BOX 147 ST. CATHARINE PLACE, TORONTO, CANADA M5X 1C7 TELEPHONE: (416) 362-8663 TELEX: 06-217786

DRILL LOG

Property: VERMILLION LAKE #437
 Location: 30-60S; 3-76W
 Co-ordinates:
 Claim: K-875544
 Section: 231.2
 Length: 231.2
 Elevation:
 Azimuth: 0750 Dip: -65°

HOLE: 437-87-2
 Core size: BQ
 Dip Tests: None
 Started: August 3, 1987
 Completed: August 5, 1987
 Logged By: D. Burrows

DESCRPTION
 NOTE: All angles are measured with respect to the long core axis.

DEPTH	From	to	width	sample number	ASSAYS	
					Au	Ag
0.0	3.6					
3.6	12.8					
12.8	14.6					
14.6	23.5					
23.5	45.5					

CASING

BROKEN, FRACTURED WEAK TO MODERATE SHEARED TRONDHJEMITE STRONGLY ALTERED
 -brown ankerite -- possible surface weathering
 -at 2.0' 45' qtz stringers

WEAK TO MODERATELY SHEARED TRONDHJEMITE

-biotite and plagioclase altered to chlorite and sericite respectively
 -1-2X disseminated pyrite
 -at 13.1 and 14.9' 1cm qtz-carbonate stringers

STRONGLY SHEARED TRONDHJEMITE

-pseudo coarse grained due to increase in size of qtz phenocrysts (see silicification)
 -matrix largely sericite and epidote?
 -1-2X pyrite disseminated throughout
 -at 15.2' 4cm qtz-carbonate 60° stringers
 -at 22.0' 1-6cm qtz-carb-sphalerite 25° in locally moderately sheared and altered trondhjemite

WEAK TO MODERATELY SHEARED TRONDHJEMITE

-still relic plagioclase outlines despite strong sericitization
 -1-2X disseminated pyrite; increase py (see 2-3X in following zones)
 36.3-36.6 several small mm qtz-carbonate 0-10° fractures
 38.7' 3mm clots of pyrite associated with qtz-carbonate microfractures
 42.2-43.3 strong shearing with qtz-carbonate flooding
 -all trondhjemite has small 5mm ankerite stringers at 5-10cm intervals
 -from 28.0-28.6' is a buff-brown zone of carbonate (ankerite) alteration

Francis T. Williams

DEPTH	from	to	DESCRIPTION	sample number	width	from	to	ASSAYS	
								Au oz/t	Ag oz/t
86.6	100.0		<p>WHITE QUARTZ VEIN</p> <p>-white opaque qtz with many hairline fractures filled with carb serfite chlorite</p> <p>-upper contact slightly irregular ($\approx 40^\circ$), bottom contact regular ($\approx 35^\circ$)</p> <p>-broken and missing core increases in this zone</p> <p>-no minerals fill 88.7</p> <p>88.7-89.0 -a wallrock (strongly sheared trend) inclusion that contains 5% py as fine grain euhedral cubes or fine grain pyrite in blebs</p> <p>89.0-90.0 -white qtz with 3% galena, 2% sphalerite, 1% cpy, 5% pyrite, at 89.8' pyrite forms discontinuous stringers of 1/8" (35°)</p> <p>90.0-90.5 -qtz has inclusions of well altered trend containing coarse euhedral pyrite grains</p> <p>90.5-91.0 -strongly sheared trend - same as 74.5-86.6' but with 5% pyrite</p> <p>-with two $\frac{1}{2}$" qtz veins (90°) and many qtz pods</p> <p>-irregular upper contact ($\approx 65^\circ$), bottom contact partly missing ($\approx 80^\circ$)</p> <p>91.0-91.4 -qtz with inclusions (2") of wallrock with coarse grain euhedral pyrite (5%), 3% sphalerite</p> <p>95.2-95.4 -with a few 1" pods of carbonate</p> <p>95.4-95.6 -fracture filled with pyrite ($\frac{1}{2}$"), trace cpy</p> <p>95.7-97.5 -strongly sheared trend: same as 74.5-86.6, moderate foliation (35-40°)</p> <p>-irregular upper contact, bottom contact semi-regular (35°)</p> <p>-with a few 1/8" qtz stringers (75°)</p> <p>-1% pyrite as medium grain euhedral cubes</p> <p>-at 96.7-97.2 $\frac{1}{2}$" white qtz vein (15°)</p> <p>98.1-98.8 -white qtz with 5% sphalerite, 3% po, 2% pyrite</p> <p>99.2-99.8 -white qtz with 20% po, 5% sphalerite, 5% cpy, 3% pyrite found in widened fractures or blebs including a 2" pod of po and trace of other sulphides</p>	4706 4707 4708 4709 4710 4711 4712	1.9 2.0 1.0 2.0 2.2 1.8 2.5	86.6 88.5 90.5 91.5 93.5 95.7 97.5	88.5 90.5 91.5 93.5 95.7 97.5 100.0	Tr .06 Tr Tr Tr Tr Tr	MIL 0.50 MIL MIL MIL 0.35 MIL
100.0	123.9		<p>STRONGLY SHEARED TRONCHLIMITE</p> <p>-same as 74.5-86.6</p> <p>-often foliated (35-40°)</p> <p>-fine to medium grain pyrite as euhedral grains</p> <p>106.7-107.0 -2" white qtz vein with $\frac{1}{2}$" blebs of carbonate (10%) and trace chl.</p> <p>116.6-116.9 -$\frac{1}{2}$" white qtz vein (40°) with blebs of carbonate</p> <p>118.4-118.6 -1" white qtz vein (45°) with blebs of carb, hairline stringers of tourmaline</p> <p>123.7-123.8 -$\frac{1}{2}$" irregular qtz stringers ($\approx 75^\circ$) with 1% coarse grain galena, trace pyrite</p>	4713 4714 4715 4716 4717 4718 4719	2.5 3.7 1.3 5.0 5.5 0.9	100.0 102.5 106.2 107.5 112.5 117.5 123.0	102.5 106.2 107.5 112.5 117.5 123.0 123.9	Tr Tr Tr Tr Tr Tr Tr	MIL MIL MIL MIL MIL MIL MIL

DEPTH	DESCRIPTION	sample number	width	from	to	ASSAYS	
						Au oz/t	Ag oz/t
123.9							
149.0	MODERATELY TO HEAVILY SHEARED TRONDJEMITE -same as 57.5-74.5 except for increase in hairline fractures filled with qtz and carbonate -many blebs of carbonate, frequent ankertite staining -foliation occasionally observed (45°), trace euhedral pyrite cubes -gradual contact and unit includes small sections of strongly sheared trond. END OF HOLE						
149.0							

NOTE: All angles are measured with respect to the long core axis.

DESCRIPTION

149.0
 END OF HOLE

ASSAYS

Au oz/t
 Ag oz/t

ORPFIÑO

RESOURCES LIMITED

P.O. BOX 143, 1 PM WOODMANCE, TORONTO, CANADA M6X1C7 TELEPHONE: (416) 362-6603 TELEX: 06-217766

DRILL LOG

Property: VERMILLION LAKE #437
 Location: #1 VEIN, 50+46S x 20+60W
 Co-ordinates:
 Claim: K-875551
 Section:
 Length: 429'
 Elevation: 0
 Azimuth: 075
 Dip: 45°
 HOLE: 437-87-4
 Core size: BQ
 Dip Tests: -47° (429')
 Started: August 7, 1987
 Completed: August 11, 1987
 Logged by: D. Burrows

DEPTH	from	to	CASING	NOTE: All angles are measured with respect to the long core axis.	sample number	width	from	to	ASSAYS	
									Au	Ag
0.0		4.1	CASING							
4.1		14.4	MASSIVE TRONDLHEIMITE	-good igneous texture in places with only slightly altered mafic minerals -regions of diffuse mauve-purplish alteration at 4.1-4.4 and 9.7-11.8' -5% pyrite; gradational into alteration of this type further down hole						
1		29.5	WEAKLY FOLIATED TRONDLHEIMITE	-weak diffuse mauve-purplish alteration; this may overprint shearing, at 21.6-23.5 intensifies to moderate fabric with loss of plagioclase and mafics -minor shears with carbonate (calcite) stringers 3mm at 21.1 at 80° and 21.7 at 60° -albitized shears at 24.5 and 25.3'						
29.5		42.5	MASSIVE TRONDLHEIMITE	-variable from fresh (greenish) to weak mauve-purplish alteration -albitized fracture 30' at 32.2'; 39.9-41.1' and 42.9' -four(4) parallel chlorite-carbonate shear fractures at 30.1-30.3'						
43.5		57.8	MASSIVE TRONDLHEIMITE	-relatively fresh - sericitized plg., biotite, qtz; no significant pyrite -at 44.1: 30° chloritized shear -at 48.5: 50° 3mm qtz vein -at 48.8-49.0' and 49.4-49.8': zones of albitization 75-40° fractures -at 53.4: albitized chlorite fracture 50° -at 54.7: 60° chlorite fractures 060° with 2cm albitized selvage -at 56.7: -57.0 -58.0 calcite 40-50° stringers						
9		63.0	MASSIVE TO WEAKLY FOLIATED TRONDLHEIMITE	-many diffuse zones .5' with increase sericitization and pyrite 2-3%; some discrete fractures/shears at 60.1, 61.2 and 64.0-50	4783 4784	5.0 2.5	57.8 62.8	62.8 65.3	Tt Tt	NIL NIL

OROFINO

RESOURCES LIMITED

Hole No. 437-87-3

Page 3 of 4

DEPTH	from	to	DESCRIPTION	sample number	width	from	to	ASSAYS	
								Au oz/t	Ag oz/t
113.2	111.7	113.7	STKONG SHEARING -same as 110.0-113.2 but with microfracture described above and increased disseminated pyrite and cpy (~2%); also increased size of qtz eyes in silicification						
113.7	119.5	119.5	QUARTZ VEIN -5.8' quartz vein (sphalerite, galena-pyrite) -numerous sericite inclusions especially near top 113.7-114.8 -massive white qtz, one 50 ^o μ m clear qtz at 114.3' 114.8-115.5 -1-2% 1-2mm sphalerite \pm 3-5% coarse pyrite (5-10mm clots) -tourmaline (?) or chlorite etylolites (crack-seal fractures) at 115.0-115.2 116.0-117.1 -conalite inclusion in vein highly sheared (fissile) with intense sericification and silicification (\dagger pyrite 1-2%) -two μ m 45 and 50 ^o veinlets; one other 10-15 ^o with sphalerite at 117.0' (4 of core main vein) 117.1-119.5 -fractured white qtz-barren of sulphides; minor sericite on irregular fractures (assimilated wallrock inclusions) -volcanic fractures with sericite (and tourmaline?) of margin at 119.5'	4772	1.0	113.0	114.0	Tr.	Nil
				4773	3.0	114.0	117.0	Tr.	Nil
				4774	3.0	117.0	120.0	Tr.	Nil
119.5	120.0	120.0	HIGHLY SHEARED SERICITIZED WALLROCK -2-3% pyrite in trondhjemite						
120.0	121.0	121.0	HIGHLY SHEARED SERICITIZED WALLROCK -at 120.5' 3mm qtz stringer at 40 ^o -at 120.6' 50 ^o (other discrete to stringers) abtized microfractures over 3cm						
121	120.7	120.7	SLABBY SHEARED -massive weak to moderately altered (sericitic, chloritic) trond/con -minor zones of albittization associated with microfractures/small shears: 3cm at 124.0' 45 ^o ; 2cm at 125.6' 60 ^o ; 3cm at 126.5' puttuse	4775	2.5	120.0	122.5	Tr.	Nil

DEPTH	FROM	TO	sample number	width	from	to	ASSAYS		
							Au oz/c	Ag oz/c	
126.7	142.0								
<p style="text-align: center;">DESCRPTION</p> <p>NOTE: All angles are measured with respect to the long core axis.</p>									
			4776	2.5	130.5	133.0	Tr.	N11	
			4777	3.0	133.0	136.0	Tr.	N11	
			4778	3.0	139.0	142.0	Tr.	N11	
<p>WEAKLY SHEARED TO MASSIVE MODERATELY ALTERED TON/TRON/DUMFRIE</p> <p>-same as 121.0-126.7, weak foliated to massive moderately altered con/cron</p> <p>-gradual to less sheared trend/con downhole, pyrite ~1% except at:</p> <p>131.0-132.0 -10⁰ qtz-carb-chlorite 1cm vein</p> <p>132.0-132.5 -some of albification and shearing</p> <p>and 1cm albification at 134.3 and 135.6'</p> <p>-at 139.1' 3mm qtz stringer ~45⁰</p> <p>-at 141.3' 2-3mm qtz vein, 50⁰</p> <p>-at 142.5-143.0' 2y⁰ buff epilitic width and 1 disseminated pyrite and albific out margin 35⁰ dip</p>									
142.0	159.0								
<p>RELATIVELY MASSIVE</p> <p>-weak to moderate sericitic and chloritic alteration, recognizable igneous texture observed</p> <p>147.7-142.0 -35⁰ 3cm qtz-fournalinet veinlet - no obvious sulphides</p> <p>152.1-152.2 -irregular 60⁰ qtz stringers ~1cm</p> <p>154.1' -qtz carbonate 45⁰ 7mm</p> <p>155.7' -carbonate (f qtz) irregular patch ~50⁰</p>									
159.0	159.0		4779	1.0	142.0	143.0	Tr.	N11	
			4780	1.0	147.0	148.0	Tr.	N11	
			4781	5.0	152.0	157.0	Tr.	N11	
			4782	2.0	157.0	159.0	Tr.	N11	
<p>END OF HOLE</p>									

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

DEPTH from to	DESCRIPTION	sample number	width	from	to	ASSAYS	
						Au oz/t	Ag oz/t
318.0	323.9 HEAVILY SHEARED TRONDHJEMITE -alternating with 40-50° .5-1.5' bands on highly sheared and sericitized trond giving core banded appearance -from 323' consistently strongly sheared -minor carbonate stringers and silicification	4794	1.0	322.8	323.8	Tr	NIL
323.9	326.1 QUARTZ VEIN -2.3' 35° quartz vein - banded at 1-3cm scale; 10' crack-seal fractures, approx 30 in vein - each one lined with chlorite, sericite, sphalerite, cpy, po or pyrite, minor (?) tourmaline -sulphides approx. 15-20%, sphalerite → cpy>py>gn; galena vlx -basal contact is irregular with inclusions at sericitized wallrock	4796	2.3	323.9	326.1	Tr .01	1.0 1.18
32	328.2 STRONGLY SHEARED AND SERICITIZED TRONDHJEMITE -also moderate silicification	4795	1.7	326.1	327.8	Tr	NIL
328.2	332.0 MODERATE SHEARING AND ALTERED TRONDHJEMITE						
332.0	346.2 MODERATELY SHEARED/STRONGLY ALTERED -moderately sheared strong altered (silicification and sericitization) -minor carbonate (ankerite) stringers, loss of igneous texture but no development of mottled qtz eyes texture						
346.2	372.1 STRONG SHEARING - INTENSE SERICITIZATION -strong shearing with mottled qtz eyes texture and intense sericitization -STRINGER ZONE (18 veinlets over 17.1') at: -346.7' 4-6mm qtz-carb-pyrite stringer 60° angle -349.2' 12mm qtz vein at 90° minor carb and pyrite in immediate wallrock -350.6' 10mm qtz vein at 70° minor carb and pyrite in immediate wallrock -353.0' 3mm qtz-carb veinlet at 45° -353.5' 10mm qtz-carb-tourmaline veinlet at 60° -354.0' 12mm qtz-carb veinlet at 65° -354.4' 10mm qtz-carb veinlet at 52° -354.5' 4mm qtz-carb veinlet at 45° -355.1' 12mm qtz-carb (ankerite) veinlet at 62° - minor pyrite -355.9' 2-4mm qtz-carb veinlet at 45° - diffuse margins in small shear -356.6' 3mm qtz-ankerite vein at 70°	4791 4792 4793	5.0 5.0 5.0	349.0 354.0 359.0	354.0 359.0 366.0	Tr Tr Tr	NIL NIL NIL

D E S C R I P T I O N

NOTE: All angles are measured with respect to the long core axis.

DEPTH

D E S C R I P T I O N

NOTE: All angles are measured with respect to the long core axis.

sample number

width

from

to

ASSAYS	
Au oz/c	Ag oz/c

from 63.0 to 72.0

MASSIVE IRONDOLMITE

- 5% pyrite
- at 63.5' 45° qtz vein 7mm - ↑ pyrite within 1cm in wallrock
- at 63.7' 45° carbonate filled shear 3mm in width
- at 65.5' 40° 3mm qtz veinlet
- at 69.8' 45° shear scattered pyrite grains
- at 70.5-71.1' series of chloritized shear with albitic selvage; no noticeable increase in pyrite, i.e. 4%

72.0 76.6

MODERATE SHEARING AND ALTERATION IN TRONDHJEMITE

- moderate shearing and alteration (chlorite, sericite) in trondhjemite
- also shows weak hematite alteration giving it a reddish-brown color where highly fractured, strongest at 74.0-76.0
- shows increased disseminated pyrite 2-3%, increasing to 5% near zone of silicification 75.2 to 75.7' and 45° fracture at 76.0'

76.6 82.3

STRONG SHEARING AND SERICITIZATION

- zone of increased (strong) shearing and sericitization, still mildly hematized on fractures
- at 76.8-79.9' 6mm 10° qtz vein slightly increase pyrite
- at 79.9' 50° 3mm calcite stringer
- at 79.2-79.7' .5' qtz-ophelertite-pyrite-carbonate vein at 60° vein ophelertite mainly at base 5%, pyrite as 1-3mm crystal 2-3%; increased pyrite, associated with silicification (growth of qtz eyes) within 0-3' of vein

82.3 118.0

WEAK SHEARED/MODERATELY ALTERED TRONDHJEMITE

- all this zone is mildly hematized with a greenish-brown colour; less than 1% pyrite except perhaps between 110.0-111.0'; 82.0-84.0' and 91.0-96.0' where 1-2% pyrite; also 20% pyrite associated with small shear at 115.0'
- 81.4-93.2 - some altered trondhjemite but w/ 1-2mm carbonate stringers 20-60° most w/ 45°; no noticeable increase in pyrite

118.0 150.0

MASSIVE/WEAK TO MODERATE ALTERATION

- massive, weak to moderate alteration (chlorite sericite) but hematite staining less noticeable; pyrite 5%, except at 123.0-124.0' 1-2% pyrite and 129.8' albitized shear with chlorite w/ 5° angle

DEPTH From to	DESCRIPTION	sample number	width	from	to	ASSAYS	
						Au oz/t	Ag oz/t
130.0 145.0	MASSIVE TRONDLJEMITE -light greenish colour - coarse grained with granitoid texture, no observable pyrite -at 139.6' 3mm 45° shear filled with calcite, slightly increased pyrite						
145.0 159.0	VARIABLE MASSIVE TO MODERATELY SHEARED TRONDLJEMITE -0% pyrite especially approx 155' -from 153.0' to 159.0' moderate to strong shearing and sericitic alteration hematite alteration is patchy 154.0-155.0' a appear to overprint shearing as it occurs in massive and strongly sheared trondhjemite, i.e. a late post-shearing oxidation	4789	5.0	154.0	159.0	Tr	NIL
159.0 171.0	MODERATE TO STRONG SHEARING -continuation of zone of moderate to strong shearing starting at a 153.0' but here without hematite colouration -typical qtz eye mottled texture, no increase in pyrite only approx 1% transitional in weak to moderate sheared trondhjemite downhole -at 167.7 40° qtz-hematite staining 5cm vein						
171.0 189.0	WEAKLY SHEARED/MODERATELY ALTERED TRONDLJEMITE -at 173.2 6mm, 50° qtz veinlet -at 176.1' chlorite shear 50° shear with albitic selvage and 5% pyrite within 1cm on each side -at 181.0' 2mm 90° carb stringers						
189.0 194.4	WEAKLY ALTERED TRONDLJEMITE -massive only weakly altered trend - good granitic texture						
194.4 225.0	MODERATELY ALTERED TRONDLJEMITE -still relatively incensive -at 196.8' 30° calcite in small shear -at 196.0' and 196.1' 1cm zones of albitic alteration -at 201.9 45° carbonate stringers -at 202.2' qtz-carb-pyrite stringer minor tourmaline 47° 1cm wide -at 216.8' qtz-carb stringers, 50° approx. 7mm						
225.0 229.0	STRONG SHEARING - INTENSE SERICITIZATION -zone of strong shearing and intense sericitization with typical mottled texture with pronounced qtz eyes in sheared sericitized matrix						

NOTE: All angles are measured with respect to the long core axis.

DEPTH	from	to	DESCRIPTION	sample number	width	from	to	ASSAYS	
								Au oz/t	Ag oz/t
			<p>D E S C R I P T I O N</p> <p>NOTE: All angles are measured with respect to the long core axis.</p>						
			<p><u>346.2-372.1 STRONG SHEARING/INTENSE SERICITIZATION (cont'd)</u></p> <p>-356.7' 4mm qtz-ankerite vein at 60° - epidote and pyrite grains -359.0' 4mm qtz veinlet 50° - minor epidote and pyrite -359.8' 10mm qtz vein - minor carb 50° -361.7' two 3-4mm qtz veins 55° - 5x pyrite immediately adjacent to veins -362.3' 3mm qtz-ankerite vein 50° -363.8' qtz-carbonate sericite in 3cm sheared zone at 65°</p>						
372.1		378.5	<p>WEAK SHEARING WITH MODERATE ALTERATION IN TRONDHJEMITE</p> <p>-weak (occasionally moderate) shearing with moderate alteration (sericite, chlorite) in trend; 5-6cm spaced calcite filled microfractures</p>						
378.5		389.0	<p>STRONG FELSIC/MODERATE SERICITIZATION</p> <p>-strong felsic (mottled qtz-eyes texture) and moderate sericitization -at 380.6' ankerite veinlet 2mm 30° -at 380.7' 2mm qtz-carb veinlet at 45° - some pyrite at margins -at 381.5' carb-chlorite shear at 45° -at 384.9' 2mm qtz-carb vein in small (33cm) shear; chlorite on slickensides 10-15cm over 2cm region -at 386.2' same as 381.5' above</p>						
389.0		395.2	<p>MASSIVE TO WEAKLY FOLLATED</p> <p>-massive to weakly foliated moderate chloritic and sericitic alteration -at 392.8' 2mm qtz veinlet at 45°</p>						
395.2			<p>MASSIVE FRESH TRONDHJEMITE</p> <p>-massive fresh trondhjemite - slightly greenish sericitized plg., biotite and/or hornblende, w/ pyrite (ie. slightly more than more sheared material) in places -at 399.3-405.5' massive trend but weak-moderate alteration -at 418.7-423.5' massive trend but weak-moderate alteration with increased 60-90° carb stringers</p>						

ASSAY SUMMARIES

DRILL HOLE NUMBER	FOOTAGE		SAMPLE NUMBER	ASSAYED Wt:				VALUE		REFERENCE:			SAMPLE NUMBER	ASSAYED Wt:				VALUE	
	From	to		BM	SW	XR	THR	Au oz/c	Ag oz/c	Drill Log	Sample Disp	Assay Result		BM	SW	XR	THR	Au oz/c	Ag oz/c
37-87-4	57.8	62.8	4783					Trace	Nil	X	X	X							
	62.8	65.3	4784					"	"	"	"	"							
	72.0	74.0	4785					"	"	"	"	"							
	74.0	79.0	4786					"	"	"	"	"							
	79.0	80.0	4787					.01	"	"	"	"							
	80.0	81.0	4788					"	"	"	"	"							
	154.0	159.0	4789					"	"	"	"	"							
	249.8	254.8	4790					"	"	"	"	"							
	322.8	323.8	4794					"	"	"	"	"							
	323.9	326.1	4796					"	1.0	"	"	"							
326.1	327.8	4795					.01	1.18	"	"	"								
349.0	354.0	4791					"	"	"	"	"								
354.0	359.0	4792					"	"	"	"	"								
359.0	364.0	4793					"	"	"	"	"								

Re-Assayed

DEPTH	DEPTH	DESCRIPTION	sample number	width	from	to	ASSAYS		
							Au oz/c	Ag oz/c	
80.5	89.3	<p>MASSIVE TO WEAKLY FOLIATED TRONDHJEMITE/GRANDIORITE</p> <p>-same as 62.4-80.5 but gradual increase in degree of shearing towards end of box where a strong 45° fabric is apparent</p> <p>-generally moderately sheared with chloritic alteration and hematite staining</p> <p>-weakly sericitized in patches</p> <p>-gradually loses hematitic colouration to end of box</p> <p>86.0-87.3 -strongly sheared with several low angle to 45° irregular qtz-carb-chlorite stringers with intervening strong silicified wallrock</p> <p>88.0-88.7 -40 qtz-carb-chlorite vein - highly sericitized margins; two 7-8mm cubes of pyrite and carb-chlorite filled fractures</p>	18607	2.0	84.0	86.0	Tr.	Nil	
			18608	2.0	86.0	88.0	Tr.	Nil	
			18609	1.0	88.0	89.0	Tr.	Nil	
89.3	113.2	<p>MASSIVE TO WEAKLY SHEARED TRONDHJEMITE</p> <p>-moderately chloritised-sericitic and moderate to strong hematization generally around qtz grains</p> <p>107.9-108.5 -moderate to strong shearing and sericitization, two 50° x 45° 1cm qtz-carb veins at 108.2 and 108.4'</p> <p>-slightly increased pyrite approx 2% in wallrock</p> <p>-at 109.0' 45° 1cm qtz-carb vein -- no sulphides</p>							
113.2	118.2	<p>STRONGLY SHEARED SERICITIZED TRONDHJEMITE</p> <p>-sharp contact (core loss?) at top (gradual at base) with strongly sheared sericitized trondhemite - yellowish green colour (perhaps epidote also)</p> <p>-at 114.7' 5mm carb stringers in shear 45° .5% disseminated pyrite within actual stringers only</p> <p>-at 116.9-117.1' series of 45° parallel qtz-carb-sericitic shear; minor disseminated pyrite around margins</p> <p>-at 118.0' 2m 45° qtz veinlet</p>							
118.2	132.2	<p>WEAKLY SHEARED TO MASSIVE TRONDHJEMITE</p> <p>-gradual change to weakly sheared to massive trondhemite; weak to moderate alteration (chlorite, sericitic) (core poorly polished--rough matrix)</p> <p>-relatively fresh in patches, eg. approx 127.0-129.0'</p> <p>-at 130.3 and 130.8' carbonate stringers 50° and 30°, respectively; few percent pyrite in lower ore</p>							

DESCRIPTION
NOTE: All angles are measured with respect to the long core axis.

DEPTH	from	to	DESCRIPTION	sample number	width	from	to	ASSAYS	
								Au oz/c	Ag oz/c
132.2	150.4		<p>STRONGLY SHEARED AND SERICITIZED TRONDHJEMITE</p> <p>-gradational contact (at base and top) with strongly sheared and sericitized trondhjemite</p> <p>-mottled qtz eyes texture; lower part 142.8-150.4' is also silicified with growth of larger qtz eyes</p> <p>-at 142.5' 45° and 60° crosscutting 4mm qtz stringers</p>						
150.4	162.5		<p>MASSIVE MODERATELY ALTERED TRONDHJEMITE</p> <p>--massive moderately altered (chlorite, sericite) trondhjemite</p> <p>-at 152.9', 153.3 and 153.5' 1-2cm sheared portions of trondhjemite; minor pyrite</p>						
162.5	203.6		<p>MASSIVE MODERATE ALTERED TRONDHJEMITE</p> <p>-as 150.4-162.5' but reddish-brown (hematitic) alteration, esp. 164.0-177.0'</p> <p>-at 161.2' 3mm qtz-carb stringers</p> <p>-at 178.5-180.5' zone of moderate to strong shearing</p> <p>-at 179.9' two 50' ycm qtz-carbonate veins</p> <p>-at 180.1' 2cm 45° qtz carbonate</p> <p>-at 178.1' diffuse 25' qtz vein</p> <p>150.4-167.5 -massive to weakly foliated trondhjemite; weak to moderate sericite and chloritic alteration; ie. as above but without hematitic alter.</p> <p>-hematite staining increases going downhole; some small carbonate stringers</p> <p>-at 190.7' 3-4mm qtz vein with pyrite and minor cpy at 50' cut by carb stringers in small reverse fault (1cm displacement)</p>						
203.6	224.6		<p>MASSIVE MODERATELY ALTERED TRONDHJEMITE</p> <p>-as last section but stronger hematitic colouration esp. 207.0-216.0'; ie. massive to weakly foliated trondhjemite</p> <p>-at 203.9' 80' 1cm qtz-pyrite (5%) vein</p> <p>-at 204.9' 43' 3mm qtz-carb-minor pyrite</p> <p>-at 209.4' silicified shear zone 2cm wide; minor pyrite</p> <p>-at 211.5' sericitized 2' shear; coarse pyrite 5%</p> <p>-at 217.6' 3-4mm qtz vein; minor pyrite approx. 45°</p>						

NOTE: All angles are measured with respect to the long core axis.

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ASSAY SUMMARIES

DRILL HOLE NUMBER	FOOTAGE		SAMPLE NUMBER	ASSAYED BY:			VALUE		REFERENCE:			SAMPLE NUMBER	ASSAYED BY:			VALUE		
	FROM	TO		BY	SV	IN	TMS	AU	AG	DRILL LOG	SAMPLE DISPATCH		ASSAY REPORT	BY	SV	IN	TMS	AU
437-R7-5	41.0	46.0	4797					Trace	Nil	X	X	X						
	60.0	61.0	4798					"	"	"	"	"						
	61.0	65.0	4799					"	"	"	"	"						
	86.0	91.0	4800					"	"	"	"	"						
	124.5	127.5	18601					"	"	"	"	"						
	127.5	131.5	18602					"	"	"	"	"						
	138.1	140.1	18603					"	"	"	"	"						
	178.3	182.3	18604					"	"	"	"	"						
	182.3	184.8	18605					"	"	"	"	"						
	184.8	187.3	18606					"	"	"	"	"						

Re-Assayed

OROFINO

RESOURCES LIMITED

P.O. BOX 143, 17th AWARD PLACE, TORONTO, CANADA M8X 1G7 TELEPHONE: (416) 292-9883 TELE: 06-217766

DRILL LOG

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

HOLE: 437-87-6
 Core size: BQ
 Dip Tests: @ 249' & 429'
 Started: August 15, 1987
 Completed: August 25, 1987
 Logged By: D. Burrows

DEPTH	FROM	TO	CASING	DESCRIPTION	SAMPLE NUMBER	WIDTH	FROM	TO	ASSAYS		
									Au	Ag	Other
0.0	9.1	9.1									
9.1	44.0	44.0		<p>MASSIVE TRONDLJEMITE</p> <p>-with a strong purplish-brown colour therefore hematitic with chloritic alteration: top portion 9.1-18.0' highly fractured and broken</p> <p>-unaltered portions at: 24.0-24.5; 25.6-26.2 and 40.2-40.7 with chlorite (?) biotite, qtz, plag and pink 7K-feldspar</p> <p>-granodiorite variety of Shoal Lake Stock</p> <p>-minor qtz-carb stringers, overprinted by hematization at:</p> <p>-24.8' 1cm 45° qtz-carb-minor tourmaline</p> <p>-21.8' 1cm 40° qtz-carb</p> <p>-38.5' 12mm calcite vein 45°</p> <p>-38.6' 1-6mm Fe-stained qtz veinlet 50°</p> <p>-47.6' 3mm carbonate 40° stringer</p>							
44.0	62.4	62.4		<p>MASSIVE FRESH TRONDLJEMITE/GRANODIORITE</p> <p>-transitional from last section with loss of chloritization and hematitic staining</p> <p>-very fresh portions eg: 56.3-57.0 comprises biotite-chlorite-K-feld-plag-qtz</p> <p>-at 59.6' 15mm qtz-carb vein at 35°</p>							
62.4	80.5	80.5		<p>MASSIVE TO WEAKLY FOLIATED TRONDLJEMITE/GRANODIORITE</p> <p>-weak to moderate alteration (chlorite, sericite, hematite)</p> <p>-64.9' 30° chloritic shear with 1cm symmetrical albitic alteration selvage</p> <p>-68.8' 55° qtz-carb stringer, very minor pyrite</p> <p>-69.7' 45° chlorite-carbonate filled microfracture</p> <p>-73.8' 45° 3mm qtz-carb-chlorite</p> <p>-74.6' 45° fracture-albitic alteration - minor pyrite</p> <p>-74.9' 45° 3-4mm qtz-carb-minor pyrite vein (±tourmaline)</p>							

DEPTH	from	to	DESCRIPTION	sample number	width	from	to	ASSAYS	
								Au oz/t	Ag oz/t
			NOTE: All angles are measured with respect to the long core axis.						
			116.2-199.0 HIGHLY SERICITIZED TRONDHJEMITE (con't)						
			-quartz stringers also at:						
			-130.0' 65° qtz-carbonate-sphalerite						
			-130.6' 60° 1cm qtz carbonate						
			-130.8' 50° 1cm qtz-carbonate; very minor sulphide-pyrite and grey sulphide galena?						
			-between 131.0-142.5' moderately sheared and altered, weakly hematized						
			-at 138.5' 1.5" qtz-sericite vein at 45°; minor pyrite associated with albite wallrock alteration	18609	2.0	138.1	140.1	Tr	NIL
			-at 139.5' 2" qtz vein at 45°						
			-at 142.5-169.5' strong foliated and sericitized trondhjemite; numerous calcite (± qtz) microfractures 45 to 90°; patches of silicification with growth of larger qtz eyes at:						
			-145.7' 3mm qtz-carbonate 50°						
			-149.2' 8mm 25° qtz-carbonate vein						
			-151.9' 1-6mm qtz stringers approx 45°						
			-153.5-154.2' 45° chlorite shears and strong silicification						
			-158.8' irregular 3mm qtz stringers						
			-162.2' 45° 3-4mm qtz-carb stringers						
			-167.5-169.2' irregular qtz stringers in sheared region with strong silicification and carbonatization						
			-at 169.5-177.5' moderately sheared, no mottled qtz eyes texture; slightly hematized in patches						
			-at 177.5-199.0' strong, occasional moderate shearing-mottled texture						
			-at 178.3-182.6' zone of veining and strong silicification in adjoining wallrock; actual veins at 175.5-175.6; two 65° 1cm qtz veins						
			-at 178.7-179.8' one feet qtz vein with sericitic wallrock inclusions giving 45° banding; no obvious sulphides but 3-5% pyrite in silicified wallrock beneath at 179.8-181.0'	18604	4.0	178.3	182.3	Tr	NIL
			-at 181.0-181.2' 65° qtz-sericite vein--minor pyrite						
			-at 181.5' 2cm / 0 qtz-sericite vein; no sulphides	18605	2.5	182.3	184.8	Tr	NIL
			-at 181.9-182.3' banded (sericite lamellae) 45° qtz vein						
			-at 185.1-185.2' 50° qtz-sericite						
			-at 185.9-187.2' 1.3' qtz vein with sericitized wallrock inclusions; 1-2% pyrite	18606	2.5	184.8	187.3	Tr	NIL

one bleb of sphalerite at 180.1'; fractured by later cleavage.

DEPTH, from 199.0	to 219.0	DESCRIPTION	sample number	width	from	to	ASSAYS	
							Au oz/l	Ag oz/l
		<p style="text-align: center;">NOTE: All angles are measured with respect to the long core axis.</p> <p>MASSIVE TRONDRHEJEMITE -transitional change to pale green (chloritized) massive cronohjemite -good igneous texture mafics to chlorite, plagioclase, slightly sericitized</p>						
		END OF HOLE						

ORPINO

RESOURCES LIMITED

PO BOX 142, 1 FIRST CANADIAN PLACE, TORONTO, CANADA M5X 1C7 TELEPHONE: (416) 362-6633 TELEX: 06-217766

DRILL LOG

DESCRIPTION
NOTE: All angles are measured with respect to the long core axis.

Property: BAD VERMILLION LAKE #437
Location: 36+74S x 21+61W
Co-ordinates:
Claim: 875548
Section: 2/9'
Length: 2/9'
Elevation: 0'
Azimuth: 029°

Dip: -45°

HOLE: 437-87-5
Core size: BQ

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

DEPTH	From	to	CASING	sample number	width	from	to	ASSAYS		
								Au oz/c	Ag oz/c	
0.0		8.0								
8.0		23.2	WEAKLY FOLIATED TO MASSIVE TRONDHJEMITE -moderately altered (chlorite, sericite, silicification) with numerous carbonate and/or chlorite filled fractures; minor qtz-carbonate veinlets at: -14.0' 3mm 45° -19.3' 50° 3mm qtz-carb -20.8' 1-2cm 40° -22.0' two veinlets 30 and 45° qtz-chlorite -minor pyrite 5kg except between 19 and 20' equal 1-2x							
23.2		48.6	MASSIVE TRONDHJEMITE -greyish (light green where more sericitized) fresh massive trondhjemite -good galena texture with biotite 23.2-34.6 -shows patchy alteration (plag to sericite, chloritization of biotite) and increased number of 30-50° carbonate filled macrofractures 29.0-31.0 -increased carbonate (+ qtz) 50° stringers; qtz-carb veinlets at 30.6' 2mm 50° and 32.5' 3mm 45° 42.0-45.0 -zone of 0° to 50° microfractures with increased pyrite 2-3x	4797	5.0	41.0	46.0	TR	NIL	
48.6		53.5	MASSIVE TRONDHJEMITE -same as 23.2-48.6 above with increasing sericitized with numerous 30-50° discrete shears/microfractures; transitional gradual change into fresh massive material above and increasingly sheared and albite core below							

TRONDHJEMITE AND SERICITIZED TRONDHJEMITE
veinlets, generally moderately altered and sheared relatively massive trond at /8.8-82.0; strongly sheared at 83.0-84.5 and 86.0-90.8
-veinlets at 54.7' 15mm 45° qtz only; 55.5' 3mm 45° qtz-chlorite and 56.1' 3mm 45° qtz-carb, diffuse margins

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

DEPTH	from	to	DESCRIPTION	sample number	width	from	to	ASSAYS	
								Au oz/c	Ag oz/c
371.5		375.5	<p>SHEARED TRONDHJEMITE</p> <p>-strong to moderate sheared trondhjemite, approx 1% pyrite; ends at bottom with strong 20° shear with increased pyrite (4-5% over 5")</p>						
375.5		381.0	<p>FOLIATED TRONDHJEMITE</p> <p>-massive to weakly foliated trondhjemite; moderate of plagioclase and biotite to sericite and chlorite respectively; minor carbonate stringers; trace pyrite</p>						
381.0		398.2	<p>FOLIATED TRONDHJEMITE</p> <p>-massive to weakly foliated trondhjemite (as 375.5-381.0 above) but with increased disseminated pyrite, up to 1-2%; some 52mm carbonate stringers</p> <p>-at 388.5' silicified 2cm shear with increased pyrite (5% over 1")</p> <p>N.B. at 388.9-398.2' has approx 12 qtz tourmaline (± carbonate) filled hairline fractures; one 2mm qtz-tourmaline at 392.7' with grain of galena; others with pyrite in and around veinlet margin; minor albite alteration associated with these stringers</p>						
398.2		399.0	<p>SILICIFIED/SERICITIZED SECTION</p> <p>-silicified strongly sheared and sericitized section adjacent to vein; 1-2% py</p>						
399.0		410.3	<p>QUARTZ VEIN</p> <p>-Including trondhjemite inclusions at:</p> <p>-399.1' 3" wide</p> <p>-402.8-405.3' sericitized silicified trondhjemite with reddish-brown carb/amphibrite with thin slim qtz stringers</p> <p>-at 409.7' 1" trondhjemite inclusion</p> <p>-at 399.3' at edge of wallrock inclusion, two thin veinlets of fine pyrite parallel to vein margin approx. 45°</p> <p>399.3-401.4 -greyish qtz (due to ?sericite lamellae) with 45° crack-seal texture giving banded appearance; minor tourmaline; cpy and sph approx 15% total; lesser pyrite (72%); sulphides mainly on irregular structures</p> <p>white qtz with sericite lamellae; minor pyrite (51%) and sphalerite (42%); sphalerite associated with late fractures with clear qtz</p>						

ASSAY SUMMARIES

Re-Assayed

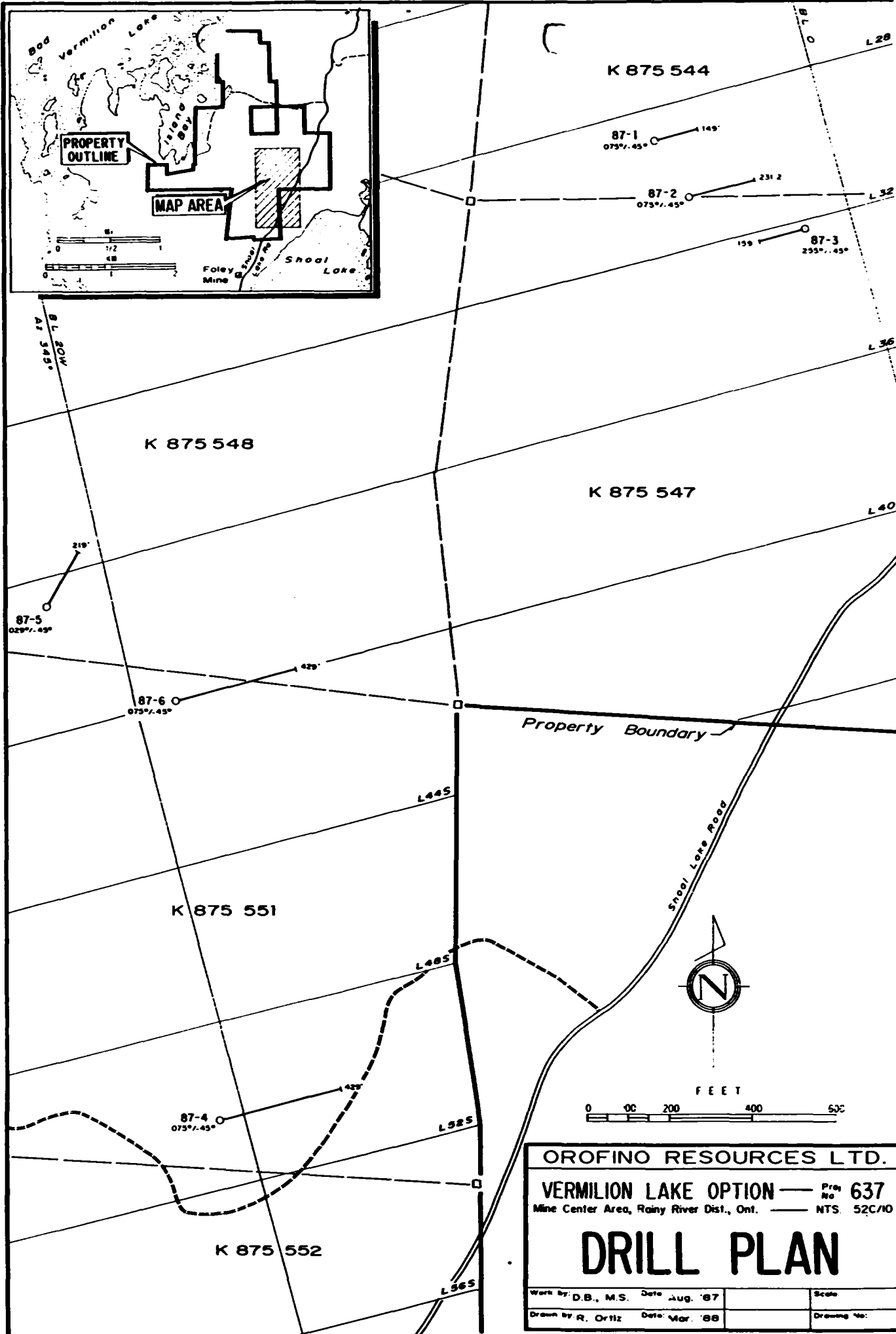
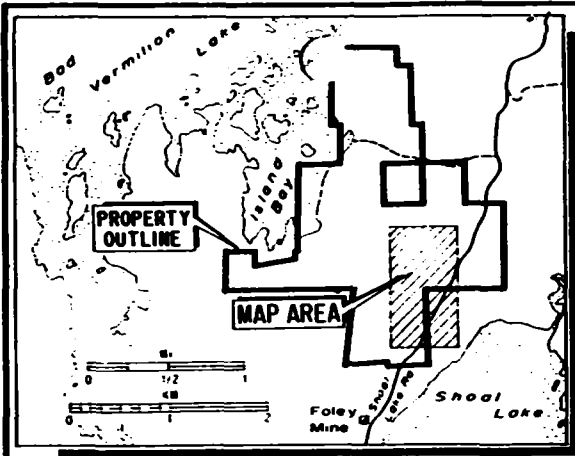
HOLE NUMBER	FOOTAGE		SAMPLE NUMBER	ASSAYED BY:			VALUE		REFERENCE:			SAMPLE NUMBER	ASSAYED BY:			VALUE	
	From	To		BY	SW	XR	THR	Au oz/c	Ag oz/c	Drill Log	Sample dispatch		Assay Result	SW	XR	THR	Au oz/c
37-87-6	84.0	86.0	18607				Trace	Nil	X	X	X						
	86.0	88.0	18608				"	"	"	"	"						
	88.0	89.0	18609				"	"	"	"	"						
	225.0	231.0	18610				"	"	"	"	"						
	247.0	248.3	18611				"	"	"	"	"						
	263.0	264.5	18612				"	"	"	"	"						
	268.0	268.0	18613				"	"	"	"	"						
	398.0	399.0	18614				"	"	"	"	"						
	399.0	399.5	18615				.01	"	"	"	"						
	401.5	401.5	18616				"	"	"	"	"						
	403.0	403.0	18617				.02	"	"	"	"						
	405.5	405.5	18618				"	"	"	"	"						
	407.0	407.0	18619				"	"	"	"	"						
	409.5	409.5	18620				"	"	"	"	"						
	409.5	411.0	18621				"	"	"	"	"						

DEPTH	from	to	DESCRIPTION	sample number	width	from	to	ASSAYS	
								Au oz/t	Ag g/t
	224.6	330.0	<p style="text-align: center;">NOTE: All angles are measured with respect to the long core axis.</p> <p style="text-align: center;">DESCRIPTION</p> <p>MODERATE TO STRONGLY SHEARED/ALTERED TRONDHJEMITE</p> <p>-moderate to strongly sheared and altered (sericite, chlorite, minor hematite) trondhjemite</p> <p>-at 225.1' 2mm qtz-pyrite veinlet in 5cm of strongly sericitized trondhjemite possible minor cpy and galena</p> <p>-at 227.0-229.0' strongly sheared and sericitized zone of core seven 1-3mm qtz stringers generally approx 45°; also some silicification</p> <p>-at approx 230.0' 5x pyrite over 2-3"</p> <p>-at 230.8' 3mm 30° qtz-carb stringers; between 232.0-233.0' four diffuse qtz stringer 2mm; minor pyrite</p> <p>-at 241.0-241.1' 30° 1" qtz vein; minor cpy and ?MoS₂</p> <p>-at 242.4' 4mm hematite stained qtz vein at 45°</p> <p>-variable degree of shearing moderate to strong, weak hematite staining in places some carbonate stringers</p> <p>N.B. at 247.3-248.1' 10" Fe-stained qtz vein approx 70°, laminated on 1cm scale approx. 3-4x fine sulphides; blue-grey mineral (blanohauite) most common with minor pyrite, cpy and silver-grey mineral (arsenopyrite/native Ag??)</p> <p>-at 256.4' 1cm qtz-carb-pyrite 45° vein - one grain of sphalerite (?)</p> <p>-at 263.3' 4" qtz with sericite/chlorite lamellae in sheared silicified trond carbonate along margins, 1x pyrite</p> <p>-after 280.3' core rough and poorly polished appears similar to previous core or may be slightly more altered with more diffuse contacts to grains</p> <p>-core lost approx 298' with pieces of qtz vein and highly altered (carbonate alteration) trondhjemite</p> <p>-at 306.2' 40° qtz-carb in small 4cm shear</p> <p>-at 324.5-325.7' zone of silicification (growth of qtz eyes) with 4mm qtz-carbonate at 325.1'</p>	18610	6.0	225.0	231.0	Tr.	Nil
	330.0	357.0	<p>MASSIVE TRONDHJEMITE</p> <p>-gradual change to massive trondhjemite with moderate chloritic and sericitic alteration; minor zones of silicification</p> <p>-at 330.1' 45° 2mm qtz-carbonate</p> <p>-at 330.3' 30° 1cm qtz-carbonate; minor pyrite</p> <p>MASSIVE TRONDHJEMITE</p> <p>-massive relatively fresh trondhjemite; some relict biotite; good igneous texture</p>	18611	1.3	247.0	248.3	Tr.	Nil
				18612	1.5	263.0	264.5	Tr.	Nil
				18613	3.5	264.5	268.0	Tr.	Nil

DEPTH	from	to	DESCRIPTION	sample number	width	from	to	ASSAYS	
								Au oz/t	Ag oz/t
375.5		375.5	<p>SHEARED TRONDHJEMITE</p> <p>-strong to moderate sheared trondhjemite, approx 1% pyrite; ends at bottom with strong 20° shear with increased pyrite (4-5% over 5")</p>						
375.5		381.0	<p>FOLIATED TRONDHJEMITE</p> <p>-massive to weakly foliated trondhjemite; moderate of plagioclase and biotite to sericite and chlorite respectively; minor carbonate stringers; trace pyrite</p>						
381.0		398.2	<p>FOLIATED TRONDHJEMITE</p> <p>-massive to weakly foliated trondhjemite (as 375.5-381.0 above) but with increased disseminated pyrite, up to 1-2%; some 52mm carbonate stringers</p> <p>-at 388.5' silicified 2cm shear with increased pyrite (5% over 1")</p> <p>N.B. at 388.9-398.2' has approx 12 qtz tourmaline (± carbonate) filled hairline fractures; one 2mm qtz-tourmaline at 392.7' with grain of galena; others with pyrite in and around veinlet margins; minor albite alteration associated with these stringers</p>						
398.2		399.0	<p>SILICIFIED/SERICITIZED SECTION</p> <p>-silicified strongly sheared and sericitized section adjacent to vein; 1-2% py</p>						
399.0		410.3	<p>QUARTZ VEIN</p> <p>-including trondhjemite inclusions at:</p> <ul style="list-style-type: none"> -399.1' 3" wide -402.8-405.3' sericitized silicified trondhjemite with reddish-brown carb/amphibyte with thin slm qtz stringers -at 409.7' 1" trondhjemite inclusion <p>-at 399.3' at edge of wallrock inclusion, two thin veinlets of fine pyrite parallel to vein margin approx. 45°</p> <p>399.3-401.4 -greyish qtz (due to sericite lamellae) with 45° crack-seal texture giving banded appearance; minor tourmaline; cpy and sph approx 15% total; lesser pyrite (5%); sulphide mainly on irregular structures</p> <p>401.4-403.8 -white qtz with sericite lamellae; minor pyrite (1%) and sphalerite (~2%); sphalerite associated with late fractures with clear qtz</p>						

D E S C R I P T I O N

NOTE: All angles are measured with respect to the long core axis.

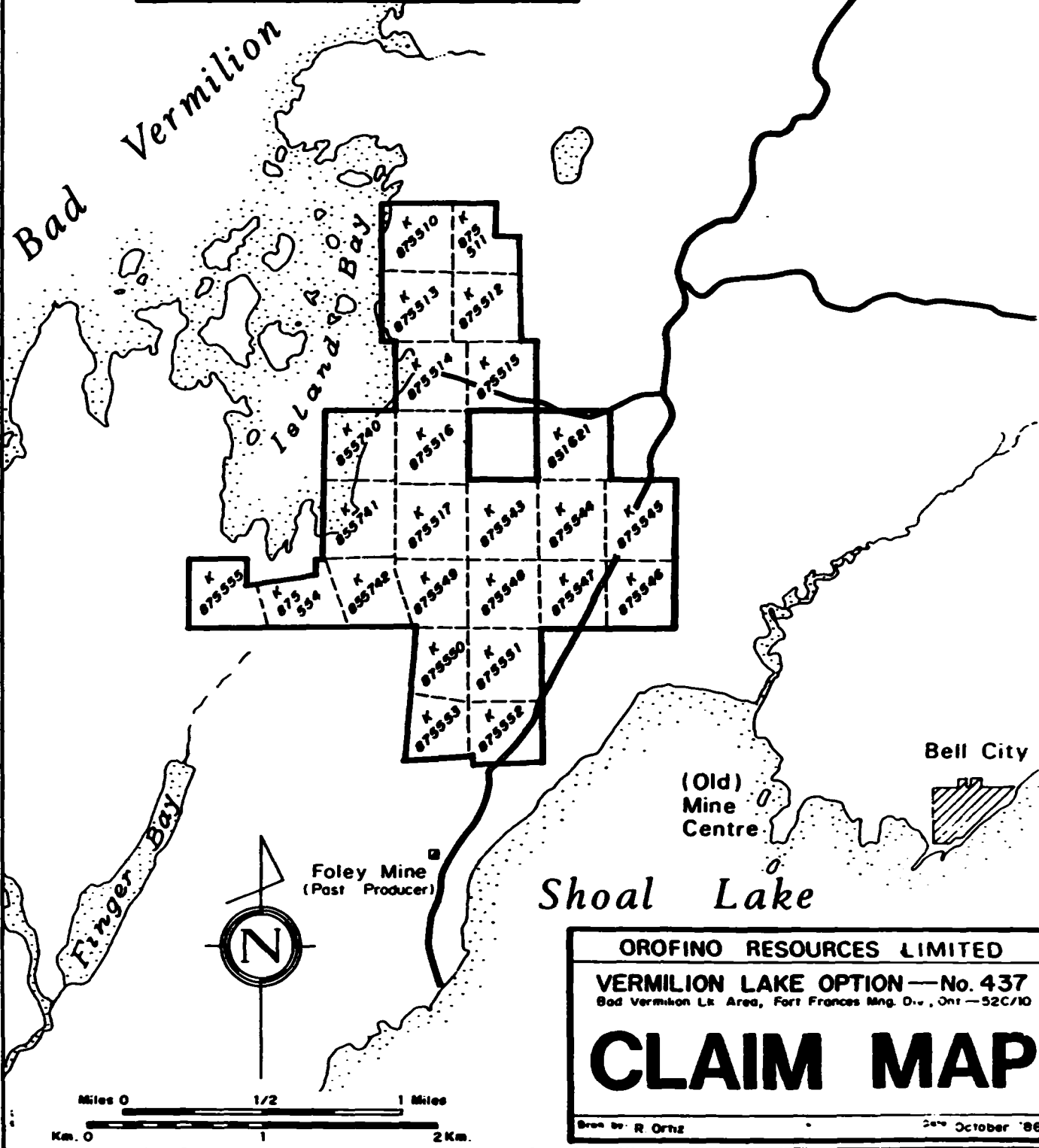
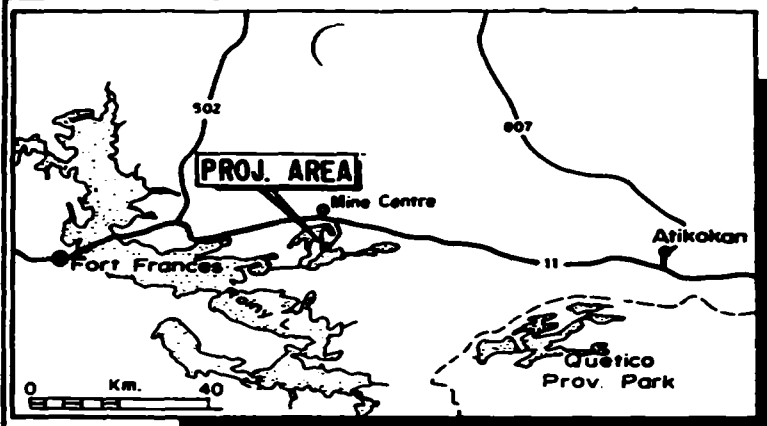


OROFINO RESOURCES LTD.

VERMILION LAKE OPTION — Proj No 637
 Mine Center Area, Rainy River Dist., Ont. — NTS 52C/10

DRILL PLAN

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



OROFINO RESOURCES LIMITED
 VERMILION LAKE OPTION—No. 437
 Bad Vermilion Lk Area, Fort Frances Mng. Div., Ont—52C/10

CLAIM MAP

Drawn by: R. Orsz
 Date: October '86



Report of Work
Mining Act (Expenditures, Subsection 77(19))

Type of Work Performed CORE ASSAYS	Mining Division KENORA	Township or Area Bad Vermilion Lk. - G2665
Recorded Holder OROFINO RESOURCES LIMITED	Inspector's Licence No. T-931	
Address P.O. Box 143, 1 First Cdn. Pl., Ste. 2701, Toronto, Ontario M5X 1C7		Telephone No. (416) 362-6683
Work Performed By OROFINO RESOURCES LIMITED		
Name and Address of Author (of Submission) 2.13011		Date When Work was Performed From: 02 08 87 To: 25 08 87

All the work was performed on Mining Claim(s). Indicate no. of days performed on each claim. *See Note No. 1 on reverse side																					
Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days												
K-875544	21	K-875547	210	K-875548	15	K-875551	1576														
<table border="0"> <tr> <td colspan="4">Instructions Total days credits may be distributed at claim holder's choice. Enter number of days credits per claim in the expenditure days credit column (below).</td> <td colspan="4">Calculation of Expenditure Days Credits Total Expenditures \$ 1,843.00</td> <td colspan="2">Total Days Credits 122.86</td> <td colspan="2">Total Number of Mining Claims Covered by this Report of Work 7</td> </tr> </table>										Instructions Total days credits may be distributed at claim holder's choice. Enter number of days credits per claim in the expenditure days credit column (below).				Calculation of Expenditure Days Credits Total Expenditures \$ 1,843.00				Total Days Credits 122.86		Total Number of Mining Claims Covered by this Report of Work 7	
Instructions Total days credits may be distributed at claim holder's choice. Enter number of days credits per claim in the expenditure days credit column (below).				Calculation of Expenditure Days Credits Total Expenditures \$ 1,843.00				Total Days Credits 122.86		Total Number of Mining Claims Covered by this Report of Work 7											

Mining Claims (List in numerical sequence). If space is insufficient, attach schedules with required information

Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
K	855740	20									
K	855741	20									
K	855742	20									
K	875544	20									
K	875545	20									
K	875546	20									
K	875547	02									

Total Number of Days Performed 122.86	Total Number of Days Claimed 122	Total Number of Days to be Claimed at a Future Date .86
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Certification of Beneficial Interest *See Note No. 2 on reverse side

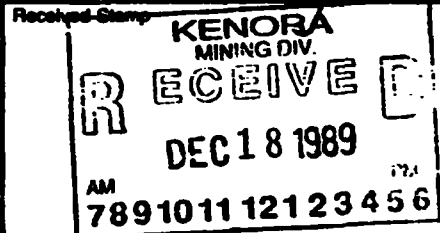
I hereby certify that, at the time the work was performed, the claims covered in this report of work were recorded in the current recorded holder's name or held under a beneficial interest by the current recorded holder.	Date December 14, 1989	Recorded Holder or Agent (Signature) <i>Shirley P. Decker</i>
--	----------------------------------	--

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.		
Name and Address of Person Certifying Dr. Francis T. Manns, c/o Orofino Resources Limited, P.O. Box 143, 1 First Cdn. Pl., Ste. 2701		
Toronto, Ontario M5X 1C7	Telephone No. (416) 362-6683	Date Dec. 14, 1989
		Certified By (Signature) <i>Francis T. Manns</i>

For Office Use Only

Total Days Cr. Recorded 122	Date Recorded <i>Dec 18/89</i>	Mining Claim Holder <i>Scott Rivett</i>
	Date Approved as Recorded	Provincial Manager, Mining Lands



855726

- Instructions
- Please type or print.
 - Refer to Subsection 77(19), the Mining Act for assessment work requirements and maximum credits allowed under this Subsection.
 - Technical Reports, maps and proof of expenditures in duplicate should be submitted to Mining Lands Section, Mineral Development and Lands Branch.

Mining Act Report of Work (Expenditures, Subsection 77(19)) **2.13011**

Type of Work Performed CORE ASSAYS	Mining Division KENORA	Township or Area Bad Vermilion Lk. - G2665
Recorded Holder OROFINO RESOURCES LIMITED		Prospector's Licence No. T-931
Address P.O. Box 143, 1 First Cdn. Pl., Ste. 2701, Toronto, Ontario M5X 1C7		Telephone No. (416) 362-6683
Work Performed By OROFINO RESOURCES LIMITED		
Name and Address of Author (of Submission)		Date When Work was Performed From: 02 Day, 08 Mo., 87 Yr. To: 25 Day, 08 Mo., 87 Yr.

All the work was performed on Mining Claim(s): Indicate no. of days performed on each claim. *See Note No. 1 on reverse side				Mining Claim K-875544	No. of Days 21	Mining Claim K-875547	No. of Days 210	Mining Claim K-875548	No. of Days 215	Mining Claim K-875551	No. of Days 1576
Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days
Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days

Instructions Total days credits may be distributed at claim holder's choice. Enter number of days credits per claim in the expenditure days credit column (below).	Calculation of Expenditure Days Credits Total Expenditures \$ 1,843.00 ÷ 15 = 122.86	Total Days Credits 122.86	Total Number of Mining Claims Covered by this Report of Work 7
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Mining Claims (List in numerical sequence). If space is insufficient, attach schedules with required information

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.	Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.	Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.	Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
K	855740	20									
K	855741	20									
K	855742	20									
K	875544	20									
K	875545	20									
K	875546	20									
K	875547	02									

ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES
OFFICE
MAR - 9 1989

Total Number of Days Performed 122.86	Total Number of Days Claimed 122	Total Number of Days to be Claimed at a Future Date .86
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Certification of Beneficial Interest *See Note No. 2 on reverse side

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

Date: **December 14, 1989** Recorded Holder or Agent (Signature): *Shirley P. Decker*

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Address of Person Certifying
Dr. Francis T. Manns, c/o Orofino Resources Limited, P.O. Box 143, 1 First Cdn. Pl., Ste. 2701 Toronto, Ontario M5X 1C7

Telephone No. **(416) 362-6683** Date **Dec. 14, 1989** Certified By (Signature) *Francis T. Manns*

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Total Days Cr. Recorded 122	Date Recorded <i>Dec 18/89</i>	Mining Recorder <i>Scott Rivett</i>
	Date Approved as Recorded <i>7 March 90</i>	Provincial Manager, Mining Lands <i>J. P. ...</i>

Received Stamp
KENORA MINING DIV.
RECEIVED
DEC 18 1989
AM
7891011 12123456

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