



52C10NE0007 2.13012 BAD VERMILION LAKE

010

**INITIAL REPORT
GEOCHEMICAL SURVEY
VERMILION LAKE OPTION
PROJECT 437
NTS 52 C/10**

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MARCH 2, 1986**



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1.0 INTRODUCTION

The Vermillion Lake Option (Fig. 1) is located 5 km south of Mine Centre in northwestern Ontario. The history of mineral exploration in the Mine Centre area dates to the 1880's when a gold rush in northern Minnesota spilled over into the Rainy Lake-Seine River area. In 1882, the Canadian Pacific Railway first provided easy access to the region. At that time it was necessary to have mining lands surveyed prior to title and since a baseline, Niven's baseline, was available, virtually all the land between Mine Centre and the Seine River was covered by surveyed mining locations. Many of these still exist today as patented mining claims (Wood et al, 1980a&b).

The Vermillion Lake Option claims constitute a contiguous 25 claim block that lies between two groups of patented claims. The southern border adjoins the Foley Mine, the Stagee property, and the Russell C. Cone properties. The northern boundary abuts against the Decca and Manhattan prospects (Beard and Garratt, 1974). Despite a long history of mineral exploration the Mine Centre area has yet to produce a major mine. However, this may be more a function of the tight land situation than the true mineral potential. Moreover, with gold prices as they are it may be again feasible to mine at Mine Centre provided an adequate reserve is discovered using current techniques.

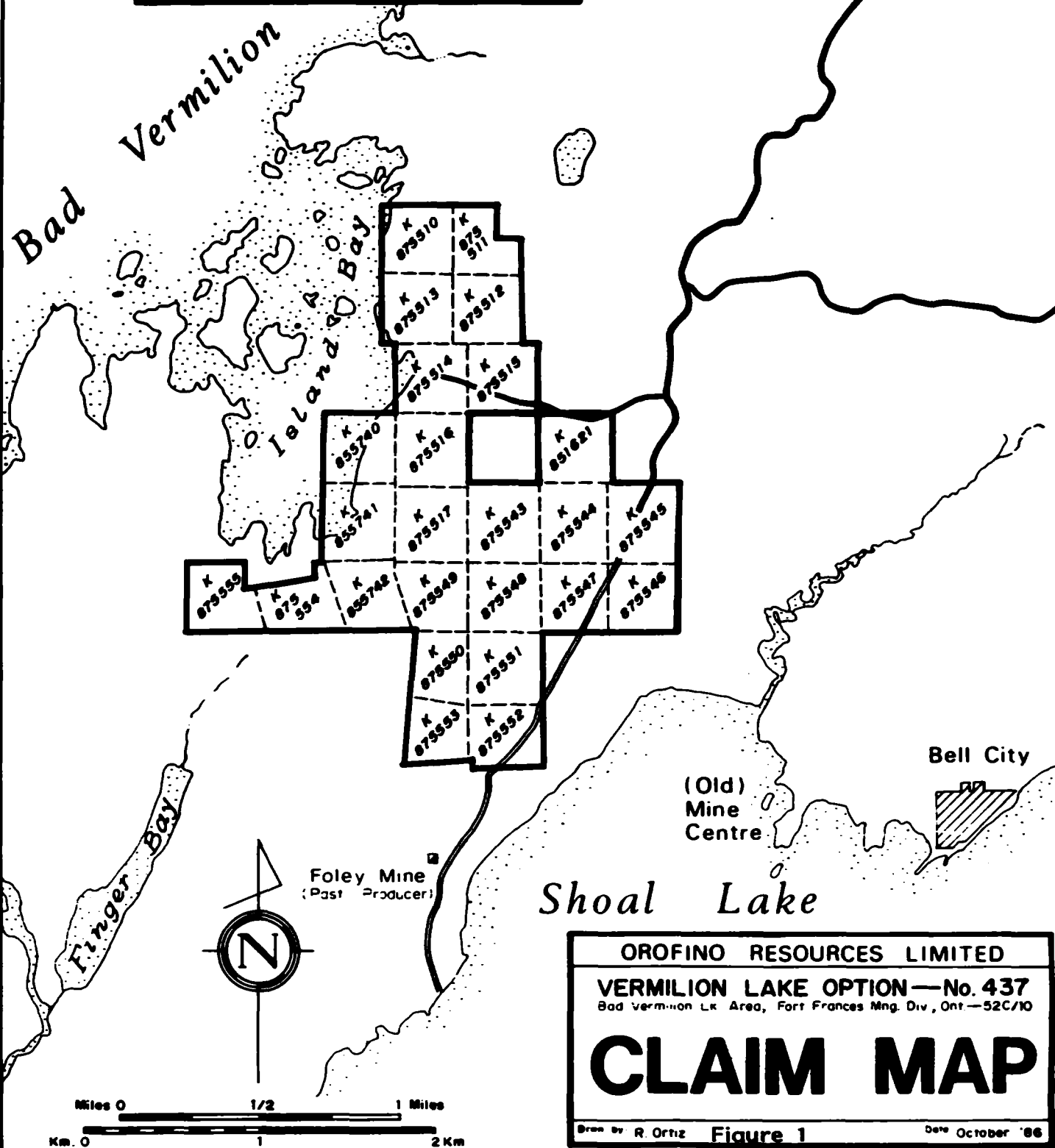
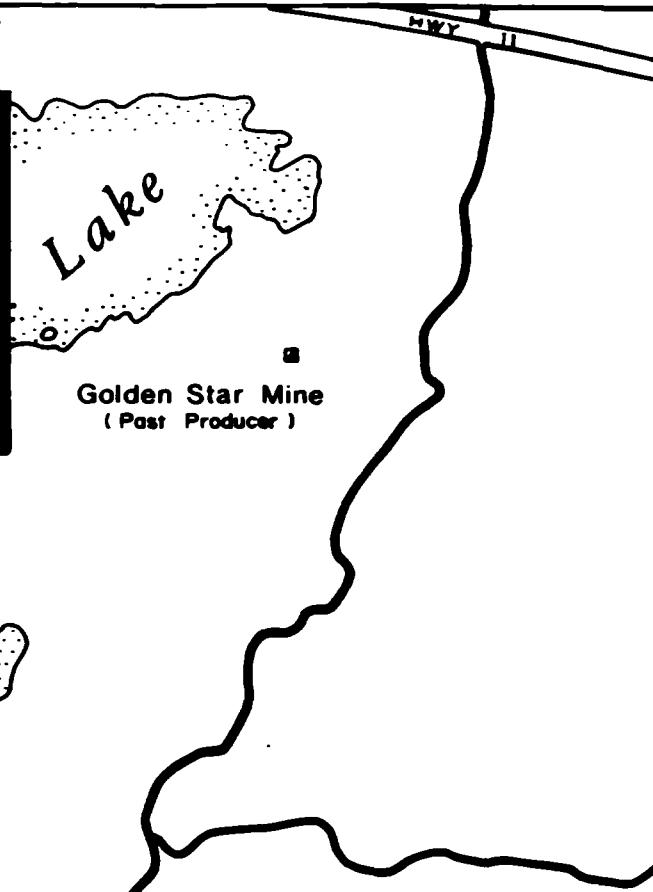
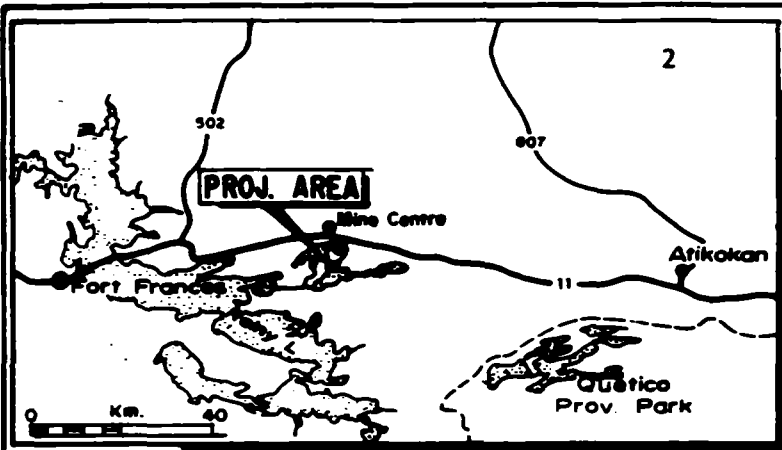
2.0 SUMMARY

This report concerns 23 of the 25 claims of the Vermillion Lake option. Surveys for two claims, K-875555 and K-875554, have not yet been prepared. 20 man days assessment are required for these by 1 July 1987.

Approximately 40 km of lines were cut. 1,066 humus samples for gold were taken.

The humus geochemistry averaged 2.4 ± 2.4 ppb standard deviation for 1066 samples. This means that values >7 ppb have a 95% probability of being anomalous and values >9 ppb have a 99% probability of being anomalous. Approximately 2.5% of the population are anomalous.

Several narrow linear trends are present striking and branching northward across the claims. Three lobate areas of anomalous gold values are also present. The largest of these is at the south end of Claim K-875552 adjacent to and on strike with the Russell Cone Family 'Mine'. The soil anomalies are outlined on Figure 3. The humus target priorities are displayed in Table 1, Section 10.0.



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

CLAIM MAP

Drawn by R. Ortiz Figure 1 Date October '86

3.0 RECOMMENDATIONS

Soil geochemistry has certainly delineated a number of areas that will require prospecting for veins. It is critical at this time

- 1) to map the positions, orientations and dimensions of surface veins and
- 2) to undertake a preliminary screening by assaying the veins.

An unknown number of 1880's vintage prospect pits are present on the property and these must also be mapped and sampled.

A shear zone has been suggested striking northward from patented Claim FF-5152. Therefore the foliation of the tonolite should be mapped at every opportunity. This mapping should be as 'homogeneous' as possible with measurements from all claims.

Preparation must be directed toward an orientation diamond drilling program of 1,500 feet in the fall of 1967.

4.0 LOCATION ACCESS AND PHYSIOGRAPHY

Mine Centre is located on highway 11, 269 km west of Thunder Bay and 63 km east of Fort Frances, Ontario. The Claims lie 5 km south of the CPR and Highway 11 on the Shoal Lake Road, a gravel road in good condition.

Thirty-five percent of the region is estimated to be covered by water of the Hudson Bay watershed. Lakes and rivers provide easy access to those portions of the region not otherwise reached by road. Local relief is generally less than 60 m. The cover is generally black spruce, white spruce, balsam, fir, poplar, white birch, red pine, white pine, jack pine, hemlock, cedar, elm and scrub oak. The second growth over the Vermilion Lake Option varies but tends toward the trash hardwoods with dense hazel undergrowth. The property consists of a gently undulating broad ridge.

Beaver ponds are present which will probably provide an adequate supply of water for diamond drilling. The claims also cover a portion of Bad Vermilion Lake. Bad Vermilion Lake would likely be the source of water for the proposed drilling program if beaver ponds do not suffice.

5.0 REGIONAL GEOLOGY

Mine Centre District lies between two major east-west striking faults. The Quetico Fault lies to the north and the Seine River Fault lies to the south. The map pattern indicates that the Quetico and Seine River Faults were right-lateral faults and the

15 km wide belt between containing the Mine Centre District was rotated clockwise between the faults (Fig.2).

The local conglomerate filled basin between the faults is interpreted to be contemporaneous with faulting as is an ultramafic anorthosite dome underlying Bad Vermilion Lake and the gold and sulphide mineralized trondjemite - tonolite laccolith overlying the batholith (Poulsen, 1984a). Poulsen does not agree with the writer's interpretation of an anorthosite dome, contending that the trondjemite underlies the anorthosite and the tonolite overlies it (Poulsen, 1987, oral communication).

The anorthosite-trondjemite complex is the unroofed remnant of an extremely differentiated magma chamber for a magma that found its way from the mantle through the weak zone between the two faults. The ultramafic batholith and the tonolite are in contact along what has been called the Finger Bay Shear zone, one of several shear zones which strike northeast from the Seine River Fault toward the Quetico Fault.

The top of contact of the tonolite with the Seine Conglomerate is reported to be an angular unconformity (Poulsen, 1984a).

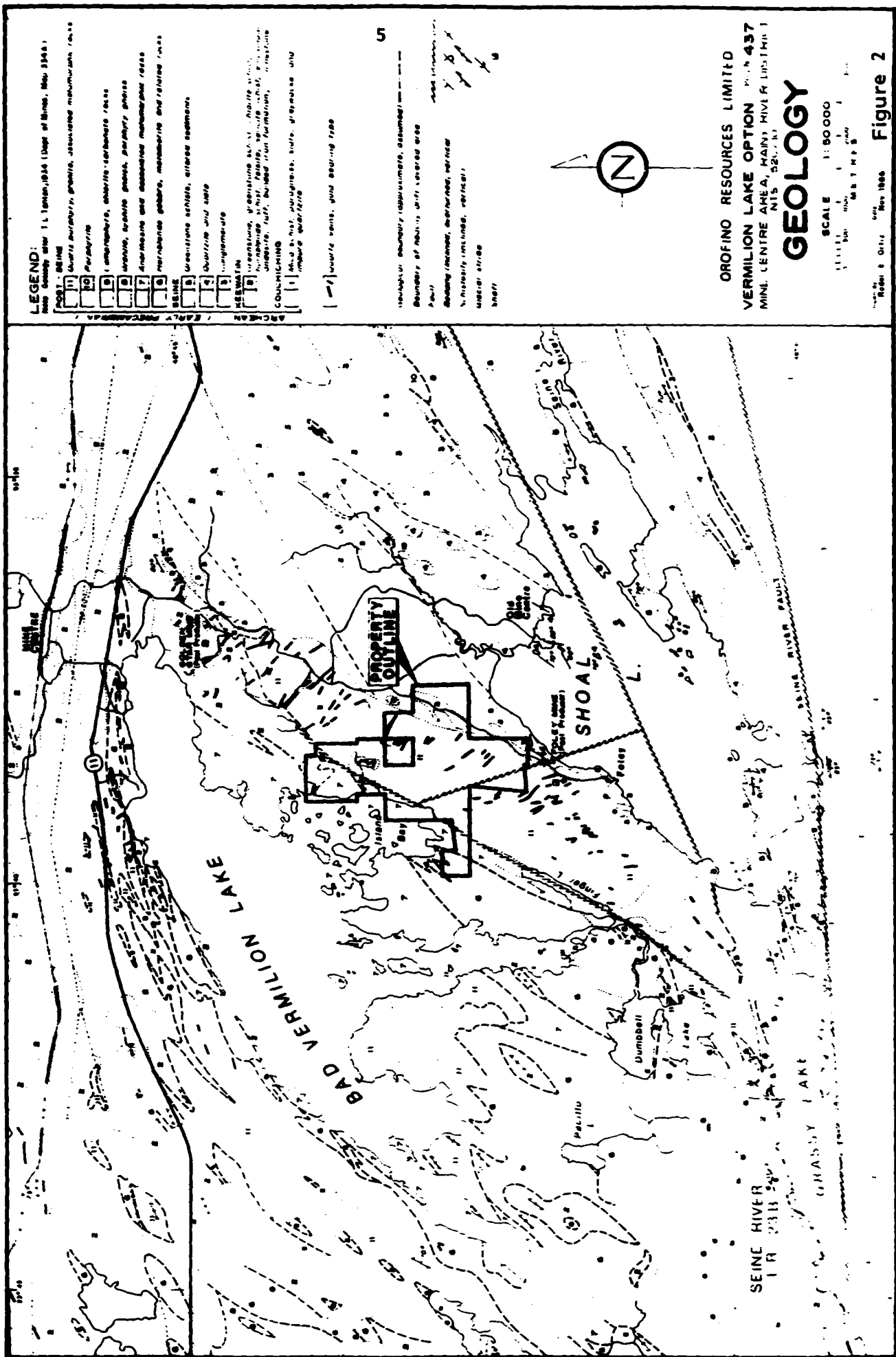
Above the tonolite the conglomerate is sheared as well, also in a northeast strike direction. Both sheared contacts are represented on the 25 Claim Vermilion Lake Option. A third shear zone was noted by Poulsen (1984b). This zone strikes north from the Russell C. Cone 'Mine' into the centre of the Vermilion Lake Option Claims.

The volcanic rocks in the basin range from mafic to felsic and are reported to be older than the batholith and laccolith. However, common sense dictates that the Bad Vermilion Intrusive Complex represents the volcanic centre and the basinal volcanics have suffered selective unroofing such that only the earliest volcanics are preserved. An Iron Formation chemical metasediment strikes east-west north of and parallel to the Seine River Fault.

6.0 ECONOMIC GEOLOGY - PRODUCING MINE

THE OLIVE MINE: The Olive Mine, west of Mine Centre on the Quetico Fault, has produced at last account, 3,572 oz Au and 342 oz Ag from 7,255 T. Production is seasonal from a 3 TPD mill with 2 men working a 2 ft. vein in metasediments.

A dewatering and rehabilitation project is planned during 1987 by Noront Resources to earn 60% interest in the project from HSK Minerals (NM, 22 December 1986).



LEGEND:
 See Geology map 11, 10/10/84 (Dept of Mines, Map 336A)
 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

ROCKS
 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

FAULTS
 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

BOUNDARIES
 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

OTHER
 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

OROFINO RESOURCES LIMITED
VERMILION LAKE OPTION Plot N 437
 MINI CENTRE AREA, MAIN RIVER DISTRICT
 N15 32' 0" E

GEOLOGY

SCALE 1:50,000
 1:100,000
 1:200,000
 1:500,000
 1:1,000,000

7.0 FORMER PRODUCERS

THE GOLDEN STAR MINE: The Golden Star Mine, 2.5 km north of the Vermilion Lake option has produced 10,758 oz Au and 34 oz Ag from 19,345 T. There are 10,000 T of reserves @ 0.45 and 35,000 T of tailings @ 0.15 reported though the tailings may have been reworked recently. Production occurred during 1898-1901, 1934, 1938 and 1941. The most recent reserve estimate dates from 1939.

The Golden Star lies only 300 m north of the end of the tonolite intrusive and is reported to be hosted in veins in felsic metavolcanics. It lies close to the conglomerate contact.

THE FOLEY MINE: The Foley Mine is 400 m south of the Vermilion Lake Option. The Foley has produced 855 oz Au and 149 oz Ag from 5,568 T from two veins in a felsic intrusive (The Bonanza, 3.5 ft wide, azimuth north; The North Jumbo, 4-5 ft wide, azimuth nw). Reserves are estimated at 6,000 T @ 0.15 opt Au above 400 ft. The Foley Mine also lies close to the conglomerate contact.

During the fall of 1984, Royal Gold and Silver mined and milled 800 Tons of material from the surface trace of one of the Foley veins and some hammer mill tailings from the Russell C. Cone Mine. The ore was milled at their 75 TPD mill near the Vermilion Lake Option and had a gross value of \$30,000.

THE RUSSELL C. CONE MINE: The mineralization is hosted in a pair of quartz veins separated by a sheared horse of tonolite country rock. The pair consists of a sulphide-bearing vein (py-sph-ga) and a quartz vein. The sulphide-poor quartz vein averages about 18" in width. About 1,000 oz of gold are reported taken from an open cut on this vein during a highgrading operation by Russell Cone Sr. and family between 1949 and 1959.

The Cone family is still living on the property and had optioned the Vermilion Lake Option of Orofino to Mine Centre Gold Ventures and Royal Gold and Silver Corporation. The family still holds approximately 30 claims to the north and south of the Vermilion Lake Option.

8.0 PROPERTY GEOLOGY

There are three types of exploration targets on the Vermilion lake Option. These are:

- 1) Prominent Quartz Veins
- 2) The Finger Bay Shear Zone
- 3) Recessive Shear Zones

These targets are currently being assessed by building a database on a complete grid cut over the property. This grid, in excess of 40 km, has been utilized to map the humus geochemistry for gold.

and for geophysical (EM and Magnetometer) surveys. During the summer field season the grid will be used to locate prominent quartz veins and old prospect pits.

Strike extensions of the prominent veins have never been explored by diamond drilling. These veins are our initial targets. The prominent veins are well known to be narrow, erratically mineralized and locally high grade.

We propose to evaluate the potential strike extension of the known veins where they may be recessively weathered. However, the program we envisage should also determine whether there are other larger hidden targets in shear zones underlying recessive areas along 1) the projection of the Finger Bay fault and 2) a proposed shear zone (Poulsen, 1984b) that cuts northward and downward stratigraphically across the centre of the Vermilion Lake Option (Fig. 2).

The combination of grid geochemistry and geophysics should permit target selection to be ranked quantitatively therefore explored in a cost efficient and hopefully unbiased fashion.

9.0 HUMUS GEOCHEMISTRY

Samples of the 'A' horizon were taken every 100 feet and packed in kraft sample bags for fire assay/DC plasma analysis by Bondar-Clegg Laboratories in Ottawa, Ontario.

Figure 3 shows the distribution of 1,066 humus samples which were collected. The mean and standard deviation of the values were calculated. 27 values greater than 13 ppb were deleted from the population and the statistics recalculated to reiterate the 'normalized' mean and standard deviation.

Sample values below detection limit of <2 ppb were taken to be 1 ppb; sample values <1 ppb were taken to be 0.5 ppb. This is considered to be a conservative method yielding both higher background and anomalous values than simply substituting a zero value. It is beyond the scope of this report to attempt to justify the method rigorously.

Twelve spatially coherent anomalies are displayed on Figure 3. In addition, several linear arrays that constitute single or two value anomalies on each line trend northerly across the property. These anomalies will be investigated during the summer field season of 1987. A provisional ranking of coherent anomalies based solely on quantitative analysis is presented in Table 1. One of the goals of the field program is to attempt to add geological data to discriminate potential drilling targets.

Table 1: RANKING OF GEOCHEM ANOMALIES

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Anom.	Au mean	s.d. ppb	Anom. hits	Length ft.	Width ft.	Au Rank	Size Rank	RxR	Target Priority
S-3	30	26	5	2200	50	1	2.1	2.1	2
S-1	22	48	5	2400	200	1.4	1	1.4	1
S-11	14	5	2	900	50	2.1	3.3	6.9	5
S-7	12	4	3	300	50	2.5	5.6	14.0	11
S-10	12	9	5	2200	50	2.5	2.1	5.2	3
S-5	11	7	3	600	50	2.7	4.0	10.8	9
S-4	10	6	2	700	50	3.0	3.7	11.1	10
S-12	9	1	2	350	50	3.3	5.2	17.2	12
S-2	8	5	11	2500	50	3.8	1.96	7.4	6
S-9	8	4	3	1800	50	3.8	2.3	8.7	8
S-8	8	2	4	2300	50	3.8	2.04	7.8	7
S-6	7	6	6	700	300	4.2	1.5	6.3	4

Mean 1066 Samples = 3.5 \pm 12 ppb

Mean 1039 Samples = 2.4 \pm 2.4 ppb

Ranking of the humus anomalies as target priorities was done to differentiate between the soil anomalies. The results are shown in Table 1.

Au rank was established with the highest anomaly average ranked number 1. The absolute value of the highest mean was then divided by each of the other values to determine a percentage ranking

Size ranking was established in a similar manner by dividing the size of the largest anomaly by each other anomaly in turn to establish a percentage ranking. As this represents an area of anomaly, the square root was taken to reduce the effect. Target priority was determined by the ranking of the product of the Au rank and the Area rank.

TABLE II: SINGLE SPOT ANOMALIES
PROJECT 437

LINE	STATION	Au ppb
32S	2+00W	52
56S	34+00W	25
32N	18+00W	24
4N	12+00W	22
56S	18+00W	17
4N	BL20W	15
4S	16+00W	14
7N	BL20W	12
36S	11+00W	11
20N	2+00W	11
24S	11+00W	9
24S	4+00W	9
28S	15+00W	8
20N	9+00W	8
36S	8+00W	7

Table II is a listing of single spot anomalies as determined statistically. These may represent significant gold targets in spite of their relative size with respect to other anomalies. One must always keep the narrow vein target in perspective with regard to the coarseness of the sample grid. Each of these spot anomalies should be prospected and soil or humus samples taken.

10.0 REFERENCES

Beard, R.C. and G.L. Garratt

1976:Gold deposits of the Kenora-Fort Frances Area:
Districts of Kenora and Rainy River; Mineral
Deposits Circular 16, Ministry of Natural
Resources, Ontario Department of Mines.

Poulsen, K.H.

1984a:The geological setting of mineralization in the
Mine Centre-Fort Frances Area, District of Rainy
River;Ontario Geological Survey Open File Report
5512.

1984b:Archean tectonics and mineralization at Rainy
Lake, northwestern Ontario; Ph.D.Thesis, Queen's
University.

Tanton, T.L.

1934:Mine Centre Area, Rainy River District, Map 334A

Wood, J., Dekker, J., Jansen, J.G., Keay, J.P. and Panagapko, D.

1980a:Mine Centre Area (Eastern Half), District of
Rainy River;Ontario Geological Survey Preliminary
Map P.2202, Geological Series, Scale 1:15,840 or
1/4 inch to 1/4 mile, Geology 1976, 1977.

1980b:Mine Centre Area (Western Half); OGS Preliminary
Map P.2201.

APPENDIX I

Bondar-Clegg & Company Ltd.
5420 Carleton Place, R.J.
Ottawa, Ontario
Canada K1J 8N5
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Telex: 053-1233



Geochemical
Lab Report

REPORT: 016-5598 (COMPLETE)

REFERENCE INFO:

CLIENT: OROFINO RESOURCES LTD.
PROJECT: NONE

SUBMITTED BY: OROFINO
DATE PRINTED: 24-DEC-86

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au Gold	233	1 PPB	AQUA REGIA	FireAssay/DC Plasma
2	TestWt Au Test Weight	10	0.01 gm		

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
ORGANIC OR HUMUS	233	-10	233	SIEVE -10	233

REMARKS: < MEANS LESS THAN

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J.A. SOLEN

INVOICE TO: G. HARPER



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PROJECT: NONE

PAGE 2

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	TestWt gm	SAMPLE NUMBER	ELEMENT UNITS	Au PPB	TestWt gm
L0 SS86-559-12S		6	4.00	BLO JS86-438-2S		<1	
L0 SS86-560-13S		4	5.00	BLO JS86-437-3S		2	
L0 SS86-561-14S		2	3.00	BLO JS86-436-5S		<1	
L0 SS86-562-14+50S		1		BLO JS86-435-6S		<1	
L0 SS86-563-15S		2		BLO JS86-434-7S		<1	
L0 SS86-564-15+50S		1		BLO JS86-433-9S		<1	
L0 SS86-565-16S		<1		BLO JS86-432-10S		2	
L0 SS86-566-16+50S		2		BLO JS86-431-11S		1	
L0 SS86-567-17S		5		BLO JS86-430-13S		<1	
L0 SS86-568-17+50S		2		BLO JS86-429-14S		<1	
L0 SS86-569-18S		2		BLO JS86-428-15S		1	
L0 SS86-570-18+50S		2		BLO JS86-427-17S		1	
L0 SS86-571-19S		5	8.00	BLO JS86-426-18S		17	
L0 SS86-572-19+50S		3		BLO JS86-425-19S		5	
L0 SS86-573-20S		4		BLO JS86-424-21S		7	
L0 SS86-574-20+50S		3		BLO JS86-423-22S		4	
L0 SS86-579-21S		1		BLO JS86-422-23S		3	
L0 SS86-580-21+50S		3		BLO JS86-421-25S		3	
L0 SS86-581-22S		<1		BLO JS86-420-26S		2	
L0 SS86-582-20+50S		2		BLO JS86-419-27S		2	
L0 SS86-583-23S		3		BLO JS86-418-29S		2	
L0 SS86-584-23+50S		6		BLO JS86-417-30S		1	
L0 SS86-585-24S		3		BLO JS86-416-31S		1	
L0 SS86-586-24+50S		1		BLO JS86-415-33S		1	
L0 SS86-587-25S		<1		BLO JS86-414-34S		<1	
L0 SS86-587-25+50S		1		BLO JS86-413-35S		1	
L0 SS86-589-26S		2		BLO JS86-412-37S		<1	
L0 SS86-590-26+50S		2		BLO JS86-411-38S		<1	
L0 SS86-591-27S		1		BLO JS86-410-39S		<1	
L0 SS86-592-27+50S		<1		BLO JS86-409-41S		1	
L0 SS86-593-27S		1		BLO JS86-408-42S		1	
L0 SS86-594-28+50S		1		BLO JS86-407-43S		1	
L0 SS86-595-28S		1		BLO JS86-406-44S		1	
L0 SS86-596-28+50S		1		BLO JS86-405-45S		1	
L0 SS86-597-28S		1		BLO JS86-404-46S		1	
L0 SS86-598-29+50S		2		BLO JS86-403-47S		1	
L0 SS86-599-31S		2		BLO JS86-402-48S		1	
L0 SS86-600-31+50S		2		BLO JS86-401-49S		1	
BLO JS86-440-3S		2		BLO JS86-400-50S		1	
BLO JS86-439-1S		1		L4W SS86-445-3+50M		<1	
				L4W SS86-446-6M		3	8.00



REPORT: 016-5598

PROJECT: NCNE

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SAMPLE NUMBER	ELEMENT UNITS	Au PPB	TestWt gm	SAMPLE NUMBER	ELEMENT UNITS	Au PPB	TestWt gm
L4W SS86-447-5+50N		1		L4W SS86-487-35S		2	
L4W SS86-448-5N		3		L4W SS86-488-26S		<1	
L4W SS86-449-4+50N		3		L4W SS86-489-27S		3	
L4W SS86-450-4N		3		L4W SS86-490-27+50S		2	
L4W SS86-451-3N		<1		L4W SS86-491-28S		2	
L4W SS86-452-2N		2		L4W SS86-492-28+50S		2	
L4W SS86-453-1N		2		L4W SS86-493-29S		1	
L4W SS86-454-BLO		2		L4W SS86-494-29+50S		3	
L4W SS86-455-1S		1		L4W SS86-495-30S		2	
L4W SS86-456-2S		2		L4W SS86-496-30+50S		<1	
L4W SS86-457-3S		1		L4W SS86-497-31S		2	
L4W SS86-458-4S		<1		L56S JS86-211-35+50W		3	
L4W SS86-459-5S		3		L56S JS86-212-35W		2	
L4W SS86-460-6S		2		L56S JS86-213-34W		25	
L4W SS86-461-7S		2		L56S JS86-214-33W		3	
L4W SS86-462-8S		1		L56S JS86-215-32W		3	
L4W SS86-463-9S		2		L56S JS86-216-31W		4	
L4W SS86-464-10S		<1		L56S JS86-217-30W		3	
L4W SS86-465-11S		2		L56S JS86-218-29W		3	
L4W SS86-466-12S		<1		L56S JS86-219-28W		4	
L4W SS86-467-13S		1		L56S JS86-220-27W		4	
L4W SS86-468-14S		2		L56S JS86-221-26W		5	
L4W SS86-469-14+50S		<1		L56S JS86-222-25W		2	
L4W SS86-470-15S		1		L56S JS86-223-24W		2	
L4W SS86-471-15+50S		<1		L56S JS86-224-23W		<1	
L4W SS86-472-16S		3		L56S JS86-225-22W		<1	
L4W SS86-473-16+50S		<1		L56S JS86-226-21W		3	
L4W SS86-474-17S		1		L56S JS86-227-20W		<1	
L4W SS86-475-17+50S		2		L56S JS86-228-19W		1	
L4W SS86-476-18S		3		L56S JS86-229-18W		7	
L4W SS86-477-18+50S		1		L56S JS86-230-17W		<1	
L4W SS86-478-19S		2		L56S JS86-231-16W		1	
L4W SS86-479-19+50S		1		L56S JS86-232-15W		1	
L4W SS86-480-20S		3					
L4W SS86-481-20+50S		5					
L4W SS86-482-21S		2					
L4W SS86-483-21+50S		2					
L4W SS86-484-22S		7					
L4W SS86-485-23S		5					
L4W SS86-486-24S		3					



REPORT: 016-5903 (COMPLETE)

REFERENCE INFO:

CLIENT: DROFING RESOURCES LTD.
 PROJECT: NONE

SUBMITTED BY: DROFING RES.
 DATE PRINTED: 14-JAN-87

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	As	6-14	1.000	AQUA REGIA	SizeAssay/DC Plasma

SAMPLE TYPES	NUMBER	SIEVE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
ORGANIC OR HUMUS	165	-10	165	SIEVE -10	165

~~ORDER NUMBER 016-5903~~

~~INVOICE TO: G. HARPER~~

437
 438

$$\frac{101}{165} = 61\%$$

$$\frac{64}{165} = 39\%$$



REPORT: 016-5903

PROJECT: NONE

PAGE: 1

SAMPLE NUMBER	ELEMENT UNITS	AU PPB	SAMPLE NUMBER	ELEMENT UNITS	AU PPB
JS86-833-L12N-1W		1	JS86-873-L20N-12W		18
JS86-834-L12N-0		4	JS86-874-L20N-11W		1
JS86-835-L12N-3E		<1	JS86-875-8L10W-16N		<1
JS86-836-L12N-4E		1	JS86-876-8L10W-17N		2
- JS86-837-L12N-5E		1	JS86-877-8L10W-18N		2
JS86-838-L16N-3E		2	JS86-878-8L10W-19N		<2
JS86-839-L16N-2E		1	JS86-879-8L10W-20N		<1
JS86-840-L16N-1E		<1	JS86-880-8L10W-21N		<2
JS86-841-L16N-0		2	JS86-881-8L10W-22N		<2
JS86-842-L16N-1W		3	JS86-882-8L10W-23N		<1
JS86-843-L16N-2W		<1	JS86-884-L26N-11W		<2
JS86-844-L16N-3W		<2	JS86-885-L26N-12W		<1
JS86-845-L16N-4W		<1	JS86-886-L26N-13W		2
JS86-846-L16N-5W		<1	JS86-887-L26N-14W		<2
JS86-847-L16N-6W		2	JS86-888-L26N-15W		<1
JS86-848-L16N-7W		<1	JS86-889-L26N-16W		<1
JS86-849-L16N-8W		<1	JS86-890-L26N-17W		3
JS86-850-L16N-9W		<1	JS86-891-L26N-18W		1
JS86-851-8L10W-34N		2	JS86-892-L26N-19W		1
JS86-852-L24N-10W		<1	JS86-893-L26N-20W		1
JS86-853-L24N-11W		4	JS86-894-L26N-21W		2
JS86-854-L24N-12W		<1	JS86-895-L26N-22W		1
JS86-855-L24N-14W		5	- JS86-896-L26N-23W		5
JS86-856-L24N-15W		1	JS86-897-L26N-24W		1
JS86-857-L24N-16W		3	JS86-898-L26N-25W		1
JS86-858-L24N-17W		1	JS86-899-L26N-26W		1
JS86-859-L24N-18W		2	JS86-900-L26N-27W		1
JS86-860-L24N-19W		2	JS86-901-L26N-28W		1
JS86-861-L24N-20W		2	JS86-902-L26N-29W		1
JS86-862-L24N-21W		1	JS86-903-L26N-30W		1
JS86-863-L26N-01W		1	JS86-904-L26N-31W		1
JS86-864-L26N-02W		1	JS86-905-L26N-32W		1
JS86-865-L26N-03W		1	JS86-906-L26N-33W		1
JS86-866-L26N-04W		1	JS86-907-L26N-34W		1
JS86-867-L26N-05W		1	JS86-908-L26N-35W		1
JS86-868-L26N-06W		1	JS86-909-L26N-36W		1
JS86-869-L26N-07W		1	JS86-910-L26N-37W		1
JS86-870-L26N-08W		4	JS86-911-L26N-38W		1
JS86-871-L26N-09W		13	JS86-912-L26N-39W		1
JS86-872-L26N-10W		1	JS86-913-L26N-40W		1



REPORT: 015-5903

PROJECT: NONE

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SAMPLE NUMBER	ELEMENT UNITS	ANALYSIS	SAMPLE NUMBER	ELEMENT UNITS	ANALYSIS
JS86-914-L20N-6W		<1	SS86-839-BLO-15W		<1
JS86-915-L20N-5W		2	SS86-840-BLO-17W		1
JS86-916-L20N-4W		<1	SS86-841-BLO-19W		2
JS86-917-L20N-3W		<1	SS86-841-BLO-18+50W		<1
JS86-918-L20N-2W		11	SS86-843-BLO-19W		2
JS86-919-L20N-1W		2	SS86-844-BLO-19+50W		<1
JS86-920-L20N-0		1	SS86-845-BLO-20+50W		2
JS86-921-L20N-1E		<1	SS86-846-BLO-21W		<1
JS86-922-L20N-2E		2	SS86-847-BLO-21+50W		<1
JS86-923-L20N-3E		4	SS86-848-BLO-22W		<1
JS86-924-L20N-4E		2	SS86-849-BLO-22+50W		<1
SS86-810-BLO-23E		<1	SS86-850-BLO-23W		<1
SS86-811-BLO-22E		<1	SS86-851-BLO-23+50W		22
SS86-812-BLO-21E		<1	SS86-852-BLO-24+50W		2
SS86-813-BLO-19E		<1	SS86-853-BLO-25W		2
SS86-814-BLO-18E		1	SS86-854-BLO-25+50W		1
SS86-815-BLO-17E		<1	SS86-855-BLO-25W		2
SS86-816-BLO-15E		<1	SS86-855-BLO-26+50W		1
SS86-817-BLO-14E		<1	SS86-857-BLO-27W		1
SS86-818-BLO-13E		3	SS86-853-BLO-27+50W		2
SS86-819-BLO-11E		<1	SS86-858-BLO-28+50W		2
SS86-820-BLO-10E		<1	SS86-810-BLO-29W		1
SS86-821-BLO-09E		2	SS86-861-BLO-29+50W		1
SS86-822-BLO-07E		<1	SS86-812-BLO-29W		1
SS86-823-BLO-06E		<1	SS86-813-BLO-29+50W		1
SS86-824-BLO-05E		1	SS86-814-BLO-29W		1
SS86-825-BLO-03E		<1	SS86-815-BLO-29+50W		1
SS86-826-BLO-02E		<1	SS86-816-BLO-29W		1
SS86-827-BLO-01E		2	SS86-817-BLO-29W		1
SS86-828-BLO-14W		1	SS86-818-BLO-29+50W		1
SS86-829-BLO-13W		1	SS86-819-BLO-29W		1
SS86-830-BLO-12W		1	SS86-820-BLO-29W		1
SS86-831-BLO-11W		1	SS86-821-BLO-29W		1
SS86-832-BLO-10W		1	SS86-822-BLO-29W		1
SS86-833-BLO-09W		1	SS86-823-BLO-29W		1
SS86-834-BLO-08W		1	SS86-824-BLO-29W		1
SS86-835-BLO-07W		1	SS86-825-BLO-29W		1
SS86-836-BLO-06W		1	SS86-826-BLO-29W		1
SS86-837-BLO-05W		1	SS86-827-BLO-29W		1
SS86-838-BLO-04W		1	SS86-828-BLO-29W		1
SS86-839-BLO-03W		1	SS86-829-BLO-29W		1
SS86-840-BLO-02W		1	SS86-830-BLO-29W		1
SS86-841-BLO-01W		1	SS86-831-BLO-29W		1
SS86-842-BLO-14W		1	SS86-832-BLO-29W		1
SS86-843-BLO-13W		1	SS86-833-BLO-29W		1
SS86-844-BLO-12W		1	SS86-834-BLO-29W		1
SS86-845-BLO-11W		1	SS86-835-BLO-29W		1
SS86-846-BLO-10W		1	SS86-836-BLO-29W		1
SS86-847-BLO-09W		1	SS86-837-BLO-29W		1
SS86-848-BLO-08W		1	SS86-838-BLO-29W		1
SS86-849-BLO-07W		1	SS86-839-BLO-29W		1
SS86-850-BLO-06W		1	SS86-840-BLO-29W		1
SS86-851-BLO-05W		1	SS86-841-BLO-29W		1
SS86-852-BLO-04W		1	SS86-842-BLO-29W		1
SS86-853-BLO-03W		1	SS86-843-BLO-29W		1
SS86-854-BLO-02W		1	SS86-844-BLO-29W		1
SS86-855-BLO-01W		1	SS86-845-BLO-29W		1
SS86-856-BLO-14W		1	SS86-846-BLO-29W		1
SS86-857-BLO-13W		1	SS86-847-BLO-29W		1
SS86-858-BLO-12W		1	SS86-848-BLO-29W		1
SS86-859-BLO-11W		1	SS86-849-BLO-29W		1
SS86-860-BLO-10W		1	SS86-850-BLO-29W		1
SS86-861-BLO-09W		1	SS86-851-BLO-29W		1
SS86-862-BLO-08W		1	SS86-852-BLO-29W		1
SS86-863-BLO-07W		1	SS86-853-BLO-29W		1
SS86-864-BLO-06W		1	SS86-854-BLO-29W		1
SS86-865-BLO-05W		1	SS86-855-BLO-29W		1
SS86-866-BLO-04W		1	SS86-856-BLO-29W		1
SS86-867-BLO-03W		1	SS86-857-BLO-29W		1
SS86-868-BLO-02W		1	SS86-858-BLO-29W		1
SS86-869-BLO-01W		1	SS86-859-BLO-29W		1

101 437
 59 438
 $\frac{5}{64}$

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Geochemical
Lab Report

REPORT: 016-5903

PROJECT: NONE

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SAMPLE NUMBER	ELEMENT UNITS	AU PPB	SAMPLE NUMBER	ELEMENT UNITS	AU PPB
SS86-879-BLG-18S		2			
SS86-880-BLG-19S		3			
SS86-881-BLG-21S		1			
SS86-882-BLG-22S		1			
SS86-883-BLG-23S		1			

5 - 438

Bondar-Clegg & Company Ltd.
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Geochemical
Lab Report

REPORT: 016-5597 (COMPLETE)

REFERENCE INFO:

CLIENT: ORCFINO RESOURCES LTD.
PROJECT: NONE

SUBMITTED BY: ORCFINO
DATE PRINTED: 24-DEC-96

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au Gold	257	1 PPB	AQUA REGIA	FireAssay/IC Plasma
2	TestWt Au Test Weight	8	0.01 gm		

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
ORGANIC OR MINUS	258	-10	258	SIEVE -10	257

REMARKS: < MEANS LESS THAN
SAMPLE L36S JS86-467-23M NOT RECEIVED

REPORT COPIES TO: G. HARPER
I.A. SOLEN

INVOICE TO: G. HARPER



REPORT: 016-5597

PROJECT: NONE

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	TestWt gm	SAMPLE NUMBER	ELEMENT UNITS	Au PPB	TestWt gm
L4S JS86-385-2M		14		L12S JS86-352-2M		<1	
L4S JS86-386-1M		3		L12S JS86-353-1M		1	
L4S JS86-387-BLO		2		L12S JS86-354-BLO		<1	
L4S JS86-388-1E		1		L12S JS86-355-1E		2	
L4S JS86-389-2E		<1		L12S JS86-356-2E		7	
L4S JS86-390-3E		<2	7.00	L12S JS86-357-3E		3	
L4S JS86-391-4E		1		L12S JS86-358-4E		4	
L4S JS86-392-5E		1		L12S JS86-359-5E		2	
L4S JS86-393-6E		<1		L12S JS86-360-6E		2	
L4S JS86-394-7E		<1		L12S JS86-361-7E		4	
L4S JS86-395-8E		<1		L12S JS86-362-8E		2	
L4S JS86-396-9E		1		L12S JS86-363-9E		2	
L4S JS86-397-10E		2		L12S JS86-364-10E		2	
L4S JS86-398-11E		2		L12S JS86-365-11E		1	
L4S JS86-399-12E		1		L12S JS86-366-12E		3	
L4S JS86-400-13E		3		L20S JS86-534-19W		3	
L4S JS86-401-14E		1		L20S JS86-533-18W		2	
L4S JS86-402-15E		2		L20S JS86-532-17W		2	
L4S JS86-403-16E		1		L20S JS86-531-16W		2	
L4S JS86-404-16+85E		1		L20S JS86-530-15W		1	
L8S JS86-384-3M		1		L20S JS86-529-14W		2	
L8S JS86-383-2M		2		L20S JS86-528-13W		2	
L9S JS86-382-1M		9		L20S JS86-527-12W		2	
L9S JS86-381-BLO		4		L20S JS86-526-11W		2	
L9S JS86-381-1E		2		L20S JS86-525-10W		2	
L9S JS86-379-2E		2		L20S JS86-524-9W		2	
L9S JS86-378-3E		2		L20S JS86-523-8W		2	
L9S JS86-377-4E		3		L20S JS86-521-7W		2	
L9S JS86-376-5E		3		L20S JS86-521-6W		2	
L9S JS86-375-6E		1		L20S JS86-520-5W		2	
L9S JS86-374-7E		1		L20S JS86-519-4W		2	
L9S JS86-373-8E		<1		L20S JS86-518-3W		2	
L9S JS86-372-9E		2		L20S JS86-517-2W		2	
L9S JS86-371-10E		<1		L20S JS86-516-1W		2	
L9S JS86-370-11E		<1		L20S JS86-515-BLO		2	
L9S JS86-369-12E		<1		L24S JS86-464-45W		5	
L9S JS86-368-13E		<1		L24S JS86-463-44W		5	
L9S JS86-367-14E		2		L24S JS86-463-43W		6	
L12S JS86-350-4M		2		L24S JS86-462-42W		6	
L12S JS86-351-3M		1		L24S JS86-461-41W		5	



REPORT: 016-5597

PROJECT: NONE

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SAMPLE NUMBER	ELEMENT UNITS	Au PPB	TestWt gm	SAMPLE NUMBER	ELEMENT UNITS	Au PPB	TestWt gm
L24S JS86-460-40W		4		L24S JS86-327-BLD		3	
L24S JS86-459-39W		4		L24S JS86-328-1E		5	
L24S JS86-458-38W		4		L24S JS86-329-2E		3	
L24S JS86-457-37W		4		L24S JS86-330-3E		5	
L24S JS86-456-36W		4		L24S JS86-331-4E		3	
L24S JS86-455-35W		4		L24S JS86-332-5E		1	
L24S JS86-454-34W		3		L24S JS86-333-6E		3	
L24S JS86-453-33W		3		L24S JS86-334-7E		2	
L24S JS86-452-32W		3		L24S JS86-335-8E		1	
L24S JS86-451-31W		2		L24S JS86-336-9E		7	
L24S JS86-450-30W		4		L24S JS86-337-10E		7	
L24S JS86-449-29W		2		L24S JS86-338-11E		6	
L24S JS86-448-28W		4		L24S JS86-339-12E		1	
L24S JS86-447-27W		2		L24S JS86-340-13E		2	
L24S JS86-446-26W		15		L24S JS86-341-14E		2	
L24S JS86-445-25W		2		L24S JS86-342-15E		<1	
L24S JS86-444-24W		9		L24S JS86-343-16E		1	
L24S JS86-443-23W		4		L24S JS86-344-17E		5	
L24S JS86-442-22W		3		L24S JS86-345-18E		2	
L24S JS86-441-21W		2		L24S JS86-346-19E		4	
L24S JS86-307-20W		6		L24S JS86-347-20E		5	
L24S JS86-308-19W		2		L24S JS86-348-21E		3	
L24S JS86-309-18W		3		L24S JS86-349-22E		1	
L24S JS86-310-17W		2		L28S JS86-267-40W		4	
L24S JS86-311-16W		3		L28S JS86-268-39W		2	
L24S JS86-312-15W		1		L28S JS86-269-38W		2	
L24S JS86-313-14W		5		L28S JS86-270-37W		<2	3.40
L24S JS86-314-13W		2		L28S JS86-271-36W		1	
L24S JS86-315-12W		3		L28S JS86-272-35W		1	
L24S JS86-316-11W		9		L28S JS86-273-34W		2	
L24S JS86-317-10W		1		L28S JS86-274-33W		3	3.10
L24S JS86-318-9W		2		L28S JS86-275-32W		1	
L24S JS86-319-8W		3		L28S JS86-276-31W		1	
L24S JS86-320-7W		3		L28S JS86-277-30W		1	
L24S JS86-321-6W		3		L28S JS86-278-29W		2	
L24S JS86-322-5W		2		L28S JS86-279-28W		1	
L24S JS86-323-4W		3		L28S JS86-280-27W		1	
L24S JS86-324-3W		2	5.30	L28S JS86-281-26W		2	
L24S JS86-325-2W		5		L28S JS86-282-25W		1	
L24S JS86-326-1W		5		L28S JS86-283-24W		1	7.20

REPORT: 016-5597

PROJECT: NONE

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SAMPLE NUMBER	ELEMENT UNITS	Au PPB	TestWt gm	SAMPLE NUMBER	ELEMENT UNITS	Au PPB	TestWt gm
L28S JS86-284-23W		<1		L32S JS86-249-16W		1	
L28S JS86-285-22W		2		L32S JS86-248-15W		1	
L28S JS86-286-21W		5		L32S JS86-247-14W		<1	
L28S JS86-267-20W		3		L32S JS86-246-13W		2	
L28S JS86-288-19W		1		L32S JS86-245-12W		1	
L28S JS86-289-18W		2		L32S JS86-244-11W		<1	
L28S JS86-290-17W		2		L32S JS86-243-10W		1	
L28S JS86-291-16W		1		L32S JS86-242-9W		1	
L28S JS86-292-15W		1		L32S JS86-241-8W		<1	
L28S JS86-293-14W		6		L32S JS86-240-7W		1	
L28S JS86-294-13W		6		L32S JS86-239-6W		2	
L28S JS86-295-12W		2		L32S JS86-238-5W		1	
L28S JS86-296-11W		3		L32S JS86-237-4W		1	
L28S JS86-297-10W		<1		L32S JS86-236-3W		1	
L28S JS86-298-9W		<1		L32S JS86-235-2W		52	
L28S JS86-299-8W		<1		L32S JS86-234-1W		1	
L28S JS86-300-7W		1		L32S JS86-233-BL0		<1	
L28S JS86-301-6W		<1		L32S JS86-111-8E		3	
L28S JS86-302-5W		<1		L32S JS86-110-9E		<1	
L28S JS86-303-4W		1		L32S JS86-109-10E		<1	
L32S JS86-304-3W		1		L32S JS86-108-11E		<1	
L32S JS86-305-2W		1		L32S JS86-107-12E		<1	
L32S JS86-306-1W		<1		L32S JS86-106-13E		<1	
L32S JS86-366-33W		1		L32S JS86-105-14E		<1	
L32S JS86-365-32W		5		L32S JS86-104-15E		<1	
L32S JS86-364-31W		3		L32S JS86-103-16E		1	
L32S JS86-263-30W		3		L32S JS86-102-17E		<1	
L32S JS86-262-29W		2	7.70	L32S JS86-101-18E		1	
L32S JS86-261-28W		5		L32S JS86-100-19E		1	
L32S JS86-260-27W		2		L32S JS86-477-35W		1	
L32S JS86-359-26W		1		L32S JS86-476-34W		1	
L32S JS86-358-25W		2		L32S JS86-475-33W		1	
L32S JS86-357-24W		1	7.70	L32S JS86-474-32W		1	
L32S JS86-356-23W		2		L32S JS86-473-31W		<1	
L32S JS86-355-22W		2	8.10	L32S JS86-472-30W		1	
L32S JS86-354-21W		1		L32S JS86-471-29W		1	
L32S JS86-353-20W		2		L32S JS86-470-28W		1	
L32S JS86-352-19W		1		L32S JS86-471-27W		1	
L32S JS86-351-18W		1		L32S JS86-470-26W		1	
L32S JS86-250-17W		<1		L36S JS86-469-25W		1	

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Geochemical
 Lab Report

REPORT: 016-5597

PROJECT: NONE

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SAMPLE NUMBER	ELEMENT UNITS	Au PPB	TestWt gm	SAMPLE NUMBER	ELEMENT UNITS	Au PPB	TestWt gm
L36S JS86-468-24W		1					
L36S JS86-467-23W							
L36S JS86-466-22W		9					
L36S JS86-465-21W		7					
L36S JS86-86-5E		3					
L36S JS86-87-6E		1					
L36S JS86-88-7E		2					
L36S JS86-89-8E		1					
L36S JS86-90-9E		<1					
L36S JS86-91-10E		<1					
L36S JS86-92-11E		11					
L36S JS86-93-12E		<1					
L36S JS86-94-13E		<1					
L36S JS86-95-14E		<1					
L36S JS86-96-15E		1					
L36S JS86-97-16E		1					
L36S JS86-98-17E		<1					
L36S JS86-99-18E		1					

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Geochemical
Lab Report

REPORT: 016-5455 (COMPLETE)

REFERENCE INFO:

CLIENT: OROFINO RESOURCES LTD.
PROJECT: NONE

SUBMITTED BY: OROFINO
DATE PRINTED: 16-DEC-86

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au Gold	85	1 PPB	AQUA REGIA	FireAssay/DC Plasma

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
ORGANIC OR HUMUS	85	-10	95	SIEVE -10	85

GENERAL: NONE

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HUMUS FIRE ASSAY/D.C. PLASMA

REPORT: 016-5455

PROJECT: NONE

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	SAMPLE NUMBER	ELEMENT UNITS	Au PPB
JS 86-61-L36S-20W		24	JS 86-45-L40S-5W		1
JS 86-62-L36S-19W		7	JS 86-44-L40S-4W		<1
JS 86-63-L36S-18W		3	JS 86-43-L40S-3W		3
JS 86-64-L36S-17W		5	JS 86-42-L40S-2W		3
JS 86-65-L36S-16W		<1	JS 86-41-L40S-1W		53
JS 86-66-L36S-15W		<1	JS 86-40-L40S-8L0		19
JS 86-67-L36S-14W		<1	JS 86-39-L40S-1E		12
JS 86-68-L36S-13W		6	JS 86-38-L40S-2E		15
JS 86-69-L36S-12W		<1	JS 86-37-L40S-3E		7
JS 86-70-L36S-11W		<1	JS 86-36-L40S-4E		6
JS 86-71-L36S-10W		<1	JS 86-35-L40S-5E		3
JS 86-72-L36S-9W		<1	JS 86-34-L40S-6E		4
JS 86-73-L36S-8W		7	JS 86-33-L40S		3
JS 86-74-L36S-7W		4	JS 86-32-L40S-9E		4
JS 86-75-L36S-6W		5	JS 86-31-L40S-9E		2
JS 86-76-L36S-5W		3	JS 86-30-L40S-10E		1
JS 86-77-L36S-4W		1	JS 86-29-L40S-11E		4
JS 86-78-L36S-3W		3	JS 86-28-L40S-12E		3
JS 86-79-L36S-2W		4	JS 86-27-L40S-13E		<1
JS 86-83-L36S-2W		5	JS 86-26-L40S-14E		1
JS 86-80-L36S-1W		3	JS 86-25-L40S-15E		<1
JS 86-81-L36S-8L0		3	JS 86-24-L40S-16E		<1
JS 86-82-L36S-1E		30	JS 86-23-L40S-17E		1
JS 86-84-L36S-3E		17	JS 86-22-L40S-18E		9
JS 86-85-L36S-4E		10	JS 86-21-L40S-19E		5
JS 86-86-L40S-8L00W		3	JS 86-20-L40S-20E		7
JS 86-59-L40S-19W		7	JS 86-19-L40S-21E		33
JS 86-58-L40S-18W		3	JS 86-18-L40S-22E		11
JS 86-57-L40S-17W		3	JS 86-17-L40S-23E		7
JS 86-56-L40S-16W		1	JS 86-16-L40S-24E		11
JS 86-55-L40S-15W		1	JS 86-15-L40S-25E		1
JS 86-54-L40S-14W		1	JS 86-14-L40S-26E		1
JS 86-53-L40S-13W		1	JS 86-13-L40S-27E		1
JS 86-52-L40S-12W		1	JS 86-12-L40S-28E		1
JS 86-51-L40S-11W		1	JS 86-11-L40S-29E		1
JS 86-50-L40S-10W		1	JS 86-10-L40S-30E		1
JS 86-49-L40S-9W		1	JS 86-09-L40S-31E		1
JS 86-48-L40S-8W		<1	JS 86-08-L40S-32E		1
JS 86-47-L40S-7W		1	JS 86-07-L40S-33E		1
JS 86-46-L40S-6W		1	JS 86-06-L40S-34E		1

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Geochemical
Lab Report

REPORT: 016-5455

PROJECT: NONE

PAGE 3

SAMPLE NUMBER	ELEMENT UNITS	Au PPB
JS 86-18-L44S-11E		1
JS 86-19-L44S-12E		<1
JS 86-20-L44S-13E		<1
JS 86-21-L44S-14E		<1
JS 86-22-L44S-15E		<1

SAMPLE NUMBER	ELEMENT UNITS	Au PPB
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Geochemical
Lab Report

REPORT: 016-5900 (COMPLETE)

REFERENCE INFO:

CLIENT: OROFINO RESOURCES LTD.
PROJECT: NONE

SUBMITTED BY: OROFINO RES.
DATE PRINTED: 14-JAN-87

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au Gold	300	1 PPB	AQUA REGIA	FireAssay/DC Plasma
2	TestWt Au Test Weight	30	0.01 gm		

SAMPLE TYPES	NUMBER	SIEVE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
ORGANIC OR HUMUS	300	-10	300	SIEVE -10	300

REMARKS: < MEANS LESS THAN

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REPORT: 916-S900

PROJECT: NONE PAGE: 1

SAMPLE NUMBER	ELEMENT UNITS	NO PPB	Testwt gm	SAMPLE NUMBER	ELEMENT UNITS	NO PPB	Testwt gm
JS86-535-BLO-1N		2		JS86-574-L32S-42W		1	
JS86-536-BLO-2N		<1		JS86-575-L32S-41W		2	
JS86-537-BLO-3N		10		JS86-576-L32S-40W		1	
JS86-538-BLO-4N		<1		JS86-577-L32S-39W		2	
JS86-539-L4N-1W		<1		JS86-578-L32S-38W		1	
JS86-540-L4N-2W		3		JS86-579-L32S-37W		1	
JS86-541-L4N-3W		<1		JS86-580-L32S-36W		<1	
JS86-542-L4N-4W		1		JS86-581-L32S-35W		2	
JS86-543-L4N-5W		<1		JS86-582-L32S-BLO		1	
JS86-544-L4N-6W		3		JS86-583-L32S-1E		3	
JS86-545-L4N-7W		34		JS86-584-L32S-2E		1	
JS86-546-L4N-8W		5		JS86-585-L32S-3E		2	
JS86-547-L4N-9W		<1		JS86-586-L32S-4E		1	
JS86-548-L4N-10W		<1		JS86-587-L32S-5E		2	
JS86-549-L4N-11W		<1		JS86-588-L32S-6E		2	
JS86-550-L4N-12W		22	6.00	JS86-589-L32S-7E		2	
JS86-551-L4N-13W		12	6.00	JS86-590-BL20-7N		12	
JS86-552-L4N-14W		<1		JS86-591-BL20-8N		2	
JS86-553-L4N-15W		<1		JS86-591-BL20-5N		<1	
JS86-554-L4N-16W		12	6.00	JS86-594-BL20-4N		15	
JS86-555-L4N-17W		<1		JS86-595-BL20-3N		2	
JS86-556-L4N-18W		<1		JS86-596-BL20-2N		6	
JS86-557-L40S-21W		1		JS86-597-BL20-1N		1	
JS86-558-L40S-22W		1		JS86-598-BL20-0		2	
JS86-559-L40S-23W		2		JS86-599-BL20-0E		7	
JS86-560-L40S-24W		3	3.00	JS86-600-BL20-0E		6	1.00
JS86-561-L40S-25W		1		JS86-601-BL20-0E		3	
JS86-562-L40S-26W		2		JS86-602-BL20-0E		7	
JS86-563-L40S-27W		2		JS86-603-BL20-0E		1	
JS86-564-L40S-28W		2		JS86-604-BL20-0E		1	
JS86-565-L40S-29W		1		JS86-605-BL20-0E		1	
JS86-566-L40S-30W		1		JS86-606-BL20-0E		1	
JS86-567-L40S-31W		1		JS86-607-BL20-0E		1	
JS86-568-L40S-32W		1		JS86-608-BL20-0E		1	
JS86-569-L40S-33W		1		JS86-609-BL20-0E		1	
JS86-570-L40S-34W		1		JS86-610-BL20-0E		1	
JS86-571-L40S-35W		2		JS86-611-BL20-0E		1	
JS86-572-L40S-36W		<1		JS86-612-BL20-0E		1	
JS86-573-L40S-37W		1		JS86-613-BL20-0E		1	
JS86-574-L32S-43W		1		JS86-614-L15S-11W		2	



REPORT: 016-5900

PROJECT: NONE

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SAMPLE NUMBER	ELEMENT UNITS	AU PPB	Testwt gm	SAMPLE NUMBER	ELEMENT UNITS	AU PPB	Testwt gm
JS86-615-L16S-40W		<1		JS86-655-L16S-3W		5	
JS86-616-L16S-39W		4		JS86-656-L16S-2W		5	
JS86-617-L16S-38W		1		JS86-657-L16S-1W		2	
JS86-618-L16S-37W		7		JS86-658-L16S-BLO		2	
JS86-619-L16S-36W		4		JS86-659-L16S-1E		<1	
JS86-620-L16S-35W		9		JS86-660-L16S-2E		1	
JS86-621-L16S-34W		5		JS86-661-L16S-3E		10	
JS86-622-L16S-33W		8		JS86-662-L16S-4E		3	
JS86-623-L16S-32W		5		JS86-663-L16S-5E		5	
JS86-624-L16S-31W		3		JS86-664-L16S-6E		6	
JS86-625-L16S-30W		3		JS86-665-L16S-7E		4	
JS86-626-L16S-29W		5		JS86-666-L16S-8E		1	
JS86-627-L16S-28W		5		JS86-667-L16S-9E		2	
JS86-628-L16S-27W		4		JS86-668-L16S-10E		3	
JS86-629-L16S-26W		3		JS86-669-L16S-10+60E		<1	
JS86-630-L16S-25W		5		JS86-670-L20S-1E		<1	
JS86-631-L16S-24W		5		JS86-671-L20S-2E		2	
JS86-632-L16S-23W		3		JS86-672-L20S-3E		2	
JS86-633-L16S-22W		5		JS86-673-L20S-4E		1	
JS86-634-L16S-21W		1		JS86-674-L20S-5E		2	
JS86-635-L16S-20W BL		10	6.00	JS86-675-L20S-6E		<1	
JS86-636-L16S-19W		3		JS86-676-L20S-7E		4	6.00
JS86-637-L16S-18W		3		JS86-677-L20S-8E		<1	
JS86-638-L16S-17W		2		JS86-678-L20S-9E		<1	
JS86-639-L16S-16W		4		JS86-679-L20S-10E		<1	
JS86-640-L16S-15W		1		JS86-680-L20S-11E		<1	
JS86-641-L16S-14W		16	6.00	JS86-681-L20S-12E		<1	
JS86-642-L16S-13W		19	7.00	JS86-682-L20S-13E		1	6.00
JS86-643-L16S-12W		6		JS86-683-L20S-14E		2	6.00
JS86-644-L16S-11W		5		JS86-684-L20S-15E		<1	
JS86-645-L16S-10W		10		JS86-685-L20S-16E		<1	
JS86-646-L16S-9W		1		JS86-686-L20S-17E		<1	
JS86-647-L16S-8W		1		JS86-687-L20S-18E		<1	
JS86-648-L16S-7W		1		JS86-688-L20S-19E		<1	
JS86-649-L16S-6W		2		JS86-689-L20S-20E		<1	
JS86-650-L16S-5W		1		JS86-690-L20S-21E		<1	
JS86-651-L16S-4W		2		JS86-691-L20S-22E		<1	
JS86-652-L16S-3W		1		JS86-692-L20S-23E		<1	
JS86-653-L16S-2W		10		JS86-693-L20S-24E		2	
JS86-654-L16S-1W		2		JS86-694-L20S-25E		2	



REPORT: 016-5900

PROJECT: NONE

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SAMPLE NUMBER	ELEMENT UNITS	AU PPB	TestWt. gm	SAMPLE NUMBER	ELEMENT UNITS	AU PPB	TestWt. gm
JS86-695-L28N-1E		3		JS86-735-L45-17W		<1	
JS86-696-L28N-2E		3		JS86-736-L45-15W		14	
JS86-697-L28N-3E		2		JS86-737-L45-15W		<1	
JS86-698-L28N-4E		2	9.00	JS86-738-L45-14W		<1	
JS86-699-L28N-5E		1		JS86-739-L45-13W		<1	
JS86-700-L32N-5+81E		1		JS86-740-L45-12W		<1	
JS86-701-L32N-7+71E		1		JS86-741-L0-13W		<1	
JS86-702-L32N-7E		2	9.00	JS86-742-L0-14W		<1	
JS86-703-L32N-6E		<1		JS86-743-L0-15W		<3	4.00
JS86-704-L32N-5E		<1		JS86-744-L0-16W		<1	
JS86-705-L32N-4E		1		JS86-745-L0-17W		<2	6.00
JS86-706-L32N-3E		<1		JS86-746-L0-18W		<1	
JS86-707-L32N-2E		<1		JS86-747-L0-19W		<1	
JS86-708-L32N-1E		1		JS86-748-L0-21W		<2	9.00
JS86-709-L32N-0		<2	8.00	JS86-749-L0-22W		1	
JS86-710-L32N-1W		1		JS86-750-L0-23W		20	
JS86-711-L32N-2W		3	9.00	JS86-751-L0-24W		4	9.00
JS86-712-L32N-3W		1		JS86-752-L0-25W		<1	
JS86-713-L32N-4W		2	9.00	JS86-753-L0-26W		<1	
JS86-714-L32N-5W		<1		JS86-754-L0-27W		<1	
JS86-715-L32N-6W		2	5.00	JS86-755-L0-28W		3	
JS86-716-PL10W-22W		2		JS86-756-L0-29W		<1	
JS86-717-L45-36W		2		JS86-757-L0-30W		<1	
JS86-718-L45-35W		<1		JS86-758-L0-31W		<1	
JS86-719-L45-34W		1		JS86-759-L0-32W		2	
JS86-720-L45-33W		2		JS86-760-L0-33W		1	
JS86-721-L45-32W		1		JS86-761-L45-34W		2	
JS86-722-L45-31W		2		JS86-762-L45-35W		5	
JS86-723-L45-30W		2	5.00	JS86-763-L45-36W		1	
JS86-724-L45-29W		<1		JS86-764-L45-37W		1	
JS86-725-L45-28W		1		JS86-765-L45-38W		2	
JS86-726-L45-27W		<1	9.00	JS86-766-L45-39W		1	
JS86-727-L45-26W		<1	9.00	JS86-767-L45-40W		1	
JS86-728-L45-25W		1		JS86-768-L45-41W		1	
JS86-729-L45-24W		<1		JS86-769-L45-42W		1	
JS86-730-L45-23W		1		JS86-770-L45-43W		1	
JS86-731-L45-22W		<3	4.00	JS86-771-L45-44-71W		1	10.00
JS86-732-L45-21W		1		JS86-772-L45-45W		<1	
JS86-733-L45-19W		<2	9.00	JS86-773-L45-46W		1	
JS86-734-L45-18W		2		JS86-774-L45-47W		<1	



REPORT: 016-5900

PROJECT: NONE

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SAMPLE NUMBER	ELEMENT UNITS	AU PPB	TestWT gm	SAMPLE NUMBER	ELEMENT UNITS	AU PPB	TestWT gm
JS86-774-L20S-41W		<1		JS86-813-L40N-17W		7	8.00
JS86-775-L20S-40W		<1		JS86-814-L40N-16W		<2	
JS86-776-L20S-39W		<3	4.00	JS86-815-L40N-15W		<2	7.00
JS86-777-L20S-38W		<2	8.00	JS86-816-L40N-14W		<2	9.00
JS86-778-L20S-37W		<3	4.00	JS86-817-BL10W-41N		1	
JS86-779-L20S-36W		<2	7.00	JS86-818-BL10W-42N		<1	
JS86-780-L20S-35W		<2	9.00	JS86-819-BL10W-43N		<1	
JS86-781-L20S-34W		<2	9.00	JS86-820-BL10W-44N		3	
JS86-782-L20S-33W		22	5.00	JS86-821-BL10W-45N		1	
JS86-783-L20S-32W		<1		JS86-822-L4N-25W		<1	
JS86-784-L20S-31W		<2	6.00	JS86-823-L4N-24W		<1	
JS86-785-L20S-30W		<2	9.00	JS86-824-L4N-23W		3	8.00
JS86-786-L20S-29W		<2	6.00	JS86-825-L4N-22W		1	
JS86-787-L20S-28W		<1		JS86-826-L4N-21W		<1	
JS86-788-L20S-27W		4	4.00	JS86-827-L4N-20W		<1	
JS86-789-L20S-26W		<1		JS86-828-L12N-9W		<1	
JS86-790-L20S-25W		1		JS86-829-L12N-8W		<1	
JS86-791-L20S-24W		<3	4.00	JS86-830-L12N-7W		<1	
JS86-792-L20S-23W		1		JS86-831-L12N-6W		<1	
JS86-793-L20S-22W		2		JS86-832-L12N-5W		<1	
JS86-794-L20S-21W		<2	9.00				
JS86-795-L20S-20W		2					
JS86-796-BL10W-25N		<1					
JS86-797-BL10W-24N		1					
JS86-798-BL10W-23W		<2	9.00				
JS86-799-BL10W-22W		<3	7.00				
JS86-800-BL10W-21W		<2	7.00				
JS86-801-BL10W-20W		<1					
JS86-802-BL10W-19W		3	8.00				
JS86-803-BL10W-18W		<2	7.00				
JS86-804-BL10W-17W		5	9.00				
JS86-805-BL10W-16W		2	5.00				
JS86-806-BL10W-15W		1					
JS86-807-BL10W-14W		3					
JS86-808-BL10W-13W		1	7.00				
JS86-809-BL10W-12W		2	9.00				
JS86-810-BL10W-11W		1					
JS86-811-BL10W-10W		<1					
JS86-812-BL10W-9W		2					
JS86-813-BL10W-8W		2					
JS86-814-BL10W-7W		2					
JS86-815-BL10W-6W		2					
JS86-816-BL10W-5W		2					

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 Telex: 053-1233



BONDAR-CLEGG

Geochemical
 Lab Report

REPORT: 010-0005 (COMPLETE)

REFERENCE INFO:

CLIENT: GROFING RESOURCES LTD.
 PROJECT: NONE

SUBMITTED BY: GROFING
 DATE PRINTED: 14-JAN-87

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DESCRIPTION	EXTRACTION	METHOD
1	Au	148	1.000	AGUA REGIA	FireAssay/DC Blanks

SAMPLE TYPES	NUMBER	SIEVE PREPARATIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
ORGANIC OR HUMUS	148	-10	148	SIEVE -10	148

Bondar-Clegg & Company Ltd.
 5420 Cannon Rd.
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Geochemical
 Lab Report

REPORT: 017-0005

PROJECT: NGNE

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SAMPLE NUMBER	ELEMENT UNITS	Au PPB	SAMPLE NUMBER	ELEMENT UNITS	Au PPB
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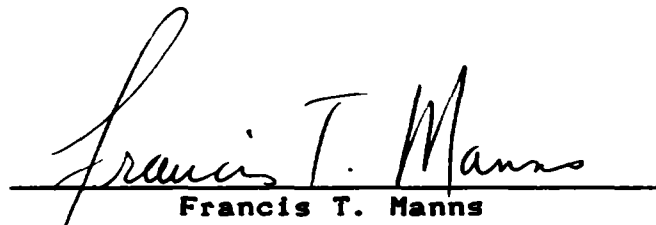
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APPENDIX II

STATEMENT OF QUALIFICATIONS

I, Francis T. Manns, have been active in exploration geology since 1972. I received both my Bachelor and Master of Arts in Geology from Temple University, Philadelphia, Pennsylvania. I received my Ph.D. in Geology from the University of Toronto in 1981. I have specialized in carbonate-hosted base metal deposits with particular emphasis on sedimentary facies and stratigraphy in the Canadian Cordillera.

Since 1980, I have been employed in the mining industry full-time and been actively involved in gold exploration for Orofino Resources Limited and Northgate Exploration Limited since 1982. I have authored several technical assessment reports and in house reports on gold exploration properties in Ontario for Orofino.


Francis T. Manns

APPENDIX III



**GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL
TECHNICAL DATA STATEMENT**

Proj. #437

**TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.**

Type of Survey(s) Humus Geochemical
 Township or Area Bad Vermillion Lake Area (52-C-10)
 Claim Holder(s) OROFINO RESOURCES LIMITED
 P.O. Box 143, 1 First Cdn. Pl., Ste. 2701, Toronto, Ont.
 M5X 1C7
 Survey Company Prospectors of Canada
 Author of Report Dr. Francis T. Manns, Ph.D.
 Address of Author Orofino Resources Limited - as above
 Covering Dates of Survey 15-10-87 - 03-02 87
 (linecutting to office)
 Total Miles of Line Cut 22.07

MINING CLAIMS TRAVERSED
List numerically

K	851621
(prefix)	855740 (number)
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	855742
	875510
	875511
	875512
	875513
	875514
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	875549
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	875553
TOTAL CLAIMS	23

If space insufficient, attach list

<u>SPECIAL PROVISIONS CREDITS REQUESTED</u>		DAYS per claim.
ENTER 40 days (includes line cutting) for first survey.	Geophysical	
	-Electromagnetic _____	
ENTER 20 days for each additional survey using same grid.	-Magnetometer _____	
	-Radiometric _____	
	-Other _____	
	Geological _____	
	Geochemical	40

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____
 (enter days per claim)

DATE: _____ SIGNATURE: _____
 Author of Report or Agent

Res. Geol. _____ Qualifications _____

Previous Surveys

File No.	Type	Date	Claim Holder

GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken K851621, K855740, K855741, K855742, K875510, K875511, K875512, K875513, K875514, K875515, K875516, K875517, K875543, K875544, K875545, K875547, K875548, K875549, K875550, K875551, K875552, K875553, K875546

Total Number of Samples 1066

Type of Sample Humus
(Nature of Material)

Average Sample Weight 250 gm

Method of Collection Grub Hoe

Soil Horizon Sampled A - Horizon

Horizon Development Normal

Sample Depth 3-10 cm

Terrain Low ridge

Drainage Development Poor

Estimated Range of Overburden Thickness 0-3 metres

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

Drying, crushing, screen - 10

General _____

ANALYTICAL METHODS

Values expressed in: per cent
p. p. m.
p. p. b.

Cu, Pb, Zn, Ni, Co, Ag, Mo, As, -(circle)

Others Au

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ 1066 tests)

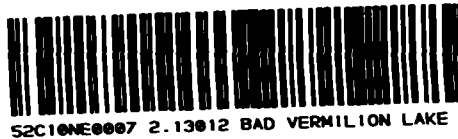
Name of Laboratory Bondar-Clegg Ltd.

Extraction Method Aquaregia

Analytical Method Fire Assay/DCPlasma

Reagents Used _____

General _____



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

RECEIVED

Type of Work Performed 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 Mining Lands Section 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: 15 10 86 To: 03 03 87 Day Mo. Yr. Day Mo. 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	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days
See Attached											
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 \$ 7,226.00				Total Days Credits 481		Total Number of Mining Claims Covered by this Report of Work 9	

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

Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.
K	875510	40	K	875543	40						
K	875511	40									
K	875512	40									
K	875513	40									
K	875514	40									
K	875515	40									
K	875516	40									
K	875517	40									

Total Number of Days Performed 481	Total Number of Days Claimed 360	Total Number of Days to be Claimed at a Future Date 121
--	--	---

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 Dec. 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. 270	Ontario Geological Survey Telephone No. (416) 362-6683 Date Dec. 14, 1989	Certified By (Signature) <i>Francis T. Manns</i>
Toronto, Ontario M5X 1C7	Received Stamp MAR - 9 1990	

For Office Use Only

Total Days Cr. Recorded 360	Date Recorded <i>Dec 18/89</i>	Mining Reporter <i>Scott Rivett</i>									
Date Approved as Recorded <i>7 March 90</i>	Provincial Manager, Mining Lands <i>W. H. ...</i>										
<table border="1"> <tr> <td>RECEIVED</td> <td>DEC 18 1989</td> <td>PM</td> </tr> <tr> <td></td> <td>1011 121 23456</td> <td></td> </tr> <tr> <td></td> <td></td> <td>875510</td> </tr> </table>			RECEIVED	DEC 18 1989	PM		1011 121 23456				875510
RECEIVED	DEC 18 1989	PM									
	1011 121 23456										
		875510									

LIST OF VERMILION LAKE CLAIMS

DOCUMENT No.
W8901-287

PROJ.	CLAIM
637	K-851621
	K-855740
	K-855741
	K-855742
	K-875510 ✓
	K-875511 ✓
	K-875512 ✓
	K-875513 ✓
	K-875514 ✓
	K-875515 ✓
	K-875516 ✓
	K-875517 ✓
	K-875543 ✓
	K-875544
	K-875545
	K-875546
	K-875547
	K-875548
	K-875549
	K-875550
	K-875551
	K-875552
	K-875553
K-875554	
K-875555	

*23 claims
- 21 days each*

No SAMPLES COLLECTED
ON THESE 2 CLAIMS

Count: ~~25~~
23

Count: ~~25~~
23

Shirley P. Decker

KENORA
MINING DIV.
R E C E I V E D
DEC 18 1989
AM PM
789101112123456

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

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.

DUP.

Type of Work Performed ASSAYS	Mining Division KENORA	Township or Area Bad Vermilion Lk. - G2665
Recorded Holder OROFINO RESOURCES LIMITED	2,13012	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 15 10 86 03 03 87 Day Mo. Yr. Day Mo. 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											
See Attached											
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 Number of Mining Claims Covered by this Report of Work
	Total Expenditures \$ 7,226.00	÷ 15 = 481	9

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	875510	40	K	875543	40						
K	875511	40									
K	875512	40									
K	875513	40									
K	875514	40									
K	875515	40									
K	875516	40									
K	875517	40									

RECEIVED
JAN 09 1990

MINING LANDS SECTION

Total Number of Days Performed 481	Total Number of Days Claimed 360	Total Number of Days to be Claimed at a Future Date 121
--	--	---

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 **Dec. 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*

For Office Use Only

Total Days Cr. Recorded 360	Date Recorded <i>Dec 15/89</i>	Mining Recorder <i>Scott Rivett</i>
	Date Approved as Recorded	Provincial Manager, Mining Lands

Received Stamp

NORA MINING DIV

DECEMBER 18 1989

1011 121 23 456

875510

LIST OF VERMILION LAKE CLAIMS

DOCUMENT No.
W8901-287

PROJ.	CLAIM
637	K-851621
	K-855740
	K-855741
	K-855742
	K-875510 ✓
	K-875511 ✓
	K-875512 ✓
	K-875513 ✓
	K-875514 ✓
	K-875515 ✓
	K-875516 ✓
	K-875517 ✓
	K-875543 ✓
	K-875544
	K-875545
	K-875546
	K-875547
	K-875548
	K-875549
	K-875550
	K-875551
	K-875552
	K-875553
K-875554	
K-875555	

*23 claims
- 21 days each*

No SAMPLES COLLECTED
ON THESE 2 CLAIMS

Count: ~~25~~
23

Count: ~~25~~
23

Shirley P. Decker

KENORA
MINING DIV.
R E C E I V E D
DEC 18 1989
AM PM
789101112123456

2,13012

RECEIVED

STATEMENT OF EXPENDITURES

PROJECT # 637

BAD VERMILION LAKE AREA

MINING LANDS SECTION

JUN 10 1990

<u>Report #</u>	<u># Samples</u>	<u>Invoice #</u>	<u>Amount</u>	<u>Cheque #</u>
016-5455	85	122255	\$ 578.00	1386
016-5597	257	122493	1,786.10	1424
016-5598	233	122488	1,584.40	1424
016-5900	300	122770	2,040.00	1431
016-5903	165	122781	1,122.00	1431
017-0005	<u>148</u>	122790	<u>1,006.40</u>	1431
	1,188		\$8,116.90	

Of the above 1,066 Samples were plotted on attached map.

Bondar-Clegg	1,066 Analyses for Au	@ 6.00	\$ 6,396.00
	1,066 Sample Preparation	@ .80	<u>852.80</u>
			\$ 7,248.80

\$15.00 expended = one man-day

\$7,248.80 ÷ 15.00 = 483.25 man-days

Technical Report, Invoice and Proof of Payment attached.

Work Performed on Claims:

K-851621 K-855740-42 incl. K-875510-17 incl.
k-875543-53 incl.



OROFIND RESOURCES LTD.
c. HARPER
BOX 143, 1ST CANADIAN PL.
TORONTO, ONTARIO
M5X 1C7

Invoice : 122255, Page 1
Date : 16-DEC-86
Report No: 016-5455
Project : NONE
Reference:

85 Analyses of Gold	at \$ 6.00	\$ 510.00	
Subtotal		\$ 510.00	\$ 510.00
Sample Preparation			
85 Samples of SIEVE #410	at \$ 0.80	\$ 68.00	
Subtotal		\$ 68.00	\$ 68.00
Invoice Total:			\$ 578.00 Cdn

437 - 023

approved
FT Mann
12/19/86

**OROFINO RESOURCES
LIMITED**

TORONTO, CANADA

December 29 19 85

PAY

Three Thousand One Hundred and 00 Cents

\$ 3,190.00

OROFINO RESOURCES LIMITED

TO
THE
ORDER
OF

**Bondar Clegg & Co. Ltd.
5420 Canotek Road
Ottawa, Ontario
K1J 8K5**

PER

PER

NOT NEGOTIABLE

THE TORONTO-DOMINION BANK
55 KING ST. W. & BAY ST.
TORONTO, M5X 1A2 CANADA

OROFINO RESOURCES LIMITED - REMITTANCE ADVICE

PLEASE DETACH BEFORE DEPOSITING

	438-023	2,590	80		
	438-026	21	20		
	437-023	578	00		

FILE COPY



OROFINO RESOURCES LTD.
G. HARPER
BOX 143, 1ST CANADIAN FL.
TORONTO, ONTARIO
M5X 1C7

Invoice : 122488, Page 1
Date : 24-DEC-86
Report No: 016-5598
Project : NONE
Reference:

233 Analyses of Gold	at \$ 6.00	\$ 1398.00	
10 Analyses of Au Test Weight	at \$ 0.00	\$ 0.00	
Subtotal		\$ 1398.00	\$ 1398.00

Sample Preparation			
233 Samples of SIEVE -10	at \$ 0.80	\$ 186.40	
Subtotal		\$ 186.40	\$ 186.40

Invoice Total:

\$ 1584.40 Cdn

1584.40



*Approved
Francis W. Mann
Francis W. Mann*



OROFINO RESOURCES LTD.
G. HARPER
BOX 145, 1ST CANADIAN PL.
TORONTO, ONTARIO
M5X 1C7

Invoice : 122489, Page 1
Date : 24-DEC-86
Report No: 016-5599
Project : NONE
Reference:

214 Analyses of Gold	at \$ 6.00	\$ 1284.00	
2 Analyses of Au Test Weight	at \$ 0.00	\$ 0.00	
Subtotal		\$ 1284.00	\$ 1284.00
Sample Preparation			
214 Samples of SIEVE -10	at \$ 0.80	\$ 171.20	
Subtotal		\$ 171.20	\$ 171.20

Invoice Total: \$ 1455.20 Cdn

Approved
7 January 1986
L. Franter, The Manns

**OROFINO RESOURCES
LIMITED**

TORONTO, CANADA

1987

PAY

Remittance 5,968.10

\$ 5,968.10

OROFINO RESOURCES LIMITED

TO
THE
ORDER
OF

**Bondar Clegg & Co. Ltd.
5420 Canotek Road
Ottawa, Ontario
K1J 8X5**

PER

PER

NON-NEGOTIABLE

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

OROFINO RESOURCES LIMITED - REMITTANCE ADVICE

PLEASE DETACH BEFORE DEPOSITING

	437-023	1,188	86		
	438-023	4,779	24		

FILE COPY



ORGFIND RESOURCES LTD.
G. HARPER
BOX 143, 1ST CANADIAN FL.
TORONTO, ONTARIO
M5X 1G7

Invoice : 122781, Page 1

Date : 14-JAN-87

Report No: 015-5903

Project : NONE

Reference:

165 Analyses of Gold		at \$ 6.00	\$ 990.00	
Subtotal			\$ 990.00	\$ 990.00
Sample Preparation				
165 Samples of SIEVE	-10	at \$ 0.80	\$ 132.00	
Subtotal			\$ 132.00	\$ 132.00
		Invoice Total:		\$ 1122.00 Cash

*Approved 1/19/87
Francis T. Means*



OROFINO RESOURCES LTD.
G. HARPER
BOX 143, 1ST CANADIAN FL.
TORONTO, ONTARIO
M5X 1C7

Invoice : 122790, Page 1
Date : 14-JAN-87
Report No: 017-0005
Project : NONE
Reference:

148 Analyses of Gold		at \$ 6.00	\$ 888.00	
Subtotal			\$ 888.00	\$ 888.00
Sample Preparation				
148 Samples of SIEVE	-10	at \$ 0.80	\$ 118.40	
Subtotal			\$ 118.40	\$ 118.40
Invoice Total:				\$ 1006.40 Cdn

437-023

Approved 1/19/87
Francis T. Manns

**OROFINO RESOURCES
LIMITED**

TORONTO, CANADA

0001431

February 21 19 87

PAY

~~Three thousand, one hundred and 40/100~~

\$ 4,168.40

OROFINO RESOURCES LIMITED

TO THE ORDER OF **Bondar-Clegg & Co. Ltd.**
5420 Canotek Road
OTTAWA, Ontario

PER _____

PER _____

NOT NEGOTIABLE

R1J 8X5

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

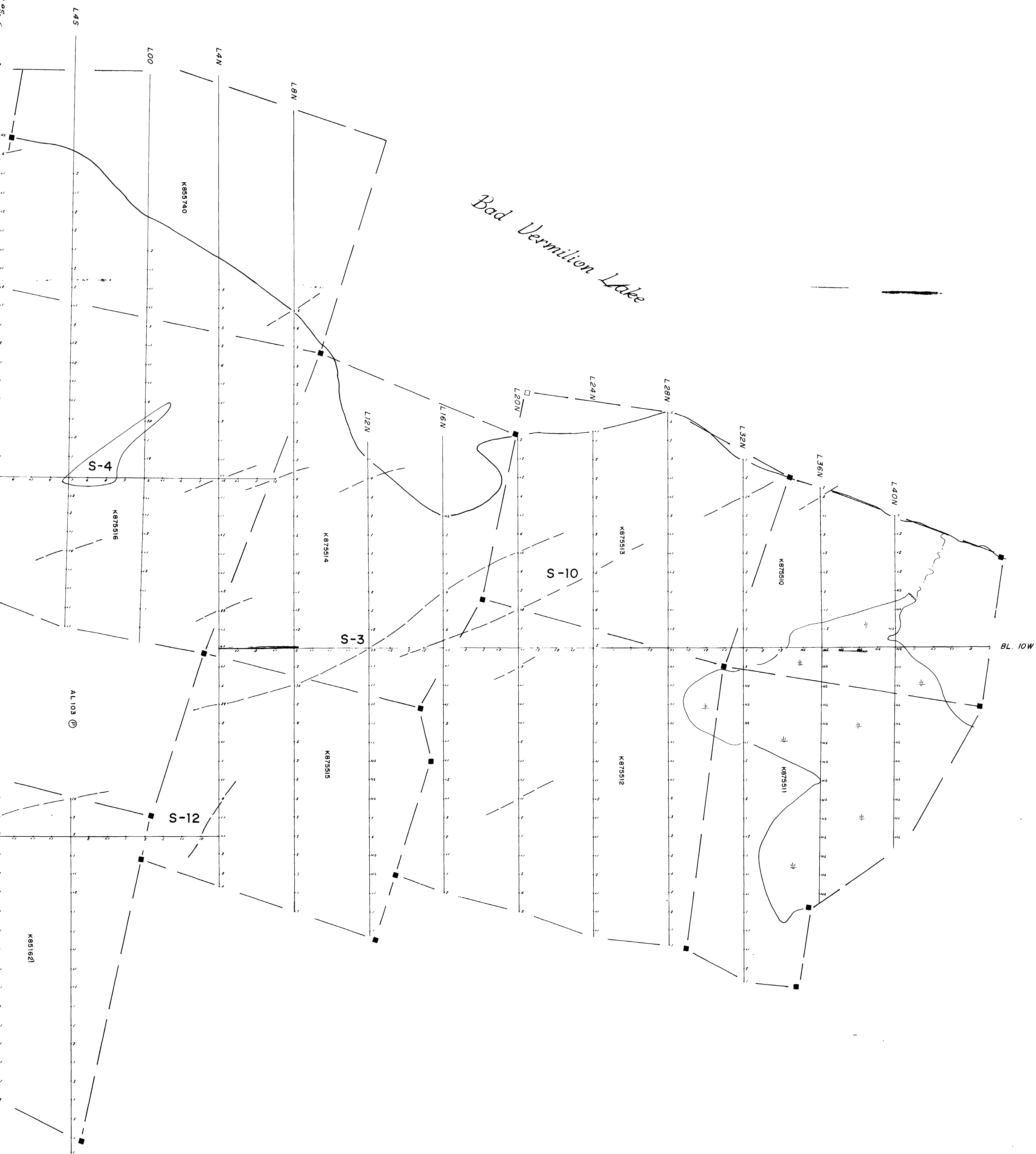
OROFINO RESOURCES LIMITED - REMITTANCE ADVICE

PLEASE DETACH BEFORE DEPOSITING

437-023	3,730	82
438-023	437	58

FILE COPY

Bod Vermilion Lake



AL 103 ©

BL 10W

S-4

S-10

S-3

S-12

K85740

K87516

K87514

K87515

K851621

K87512

K87513

K87511

K87510