

PROPERTY EXAMS  
OKANOGAN VALLEY

1989

82 E

823259

PROPERTY EXAMS

OKANAGAN VALLEY - 1989

Properties

Dividend Lakeview *shun*

Dividend Group *stun*

Fairview Camp *q vum*

Mt. Marble *q vum*

Lone Pine Creek *q vum*

MAM *q vum*

PROPERTY NAME: Dividend-Lakeview

OWNER: Makus Resources Inc.

CLAIMS: Gold Hill (#2241), Mt Kruger (#2240), Dividend #2 (#1335).  
Lakeview (#2369).

The Dividend-Lakeview property lies west of Osoyoos lake on the eastern slope of Kruger Mts. One day was spent on the property. The morning was spent sampling the mine (Samples DL001 - DL011). The afternoon was spent on the surrounding property (samples DL012 - DL 014).

The only rock type observed around the mine was diorite. It occurs as a dark green, fine grained rock with feldspar and ferromagnesium phenocrysts. Some old trenches are located within the diorite south of the mine which expose shear zones of limited extent. Within the shears are quartz veins (DL 012) and highly phyllitic rocks (DL 013). Both the quartz and the phyllite are mineralized (up to 25%) with pyrite, chalcopyrite, and pyrrhotite. These zones are up to 3m wide but could not be traced on the surface much beyond the extent of the trenching. Approximately 1 kilometre northwest of the mine a much larger shear zone was encountered which had been drifted and back filled as to prevent access. It appeared to be a skarn as the tailings revealed large amounts of Mg, and some gt in a fine grained dark siliceous rock with approximately 10% sulphides (DL 014).

Between 1936 - 1940 the Dividend - Lakeview mine produced over 99,000 tons of ore averaging 0.19 oz/ton Au. It is a partially open, partially stoped,, swath across a north trending ridge. It is a skarn deposit as widened by the presence of calc-silicate minerals (garnet, epidote and diopside were identified) and veins of crystalline calcite and abundant Mg. The host is likely

Anarchist volcanics as a small pocket of unaltered porphyritic volcanic were found in the mine. A large surface revealing slickensides indicates the replacement zone is structurally controlled. Metallic minerals present consist of pyrrhotite, chalcopyrite, pyrite, arsenopyrite, and magnetite.

Four highly mineralized grab samples were taken from the mine (DL 001, DL 002, DL 003) and seven representative samples were taken at irregular intervals along the south wall (DL 004 - DL 010).

The mine sits topographically high and is cut off at both ends (the east and west) due to this position. The skarn could not be traced on the surface in either direction. It is therefore unlikely that it is a continuous zone unless it extends to a greater depth than has been mined or has been displaced due to faulting.

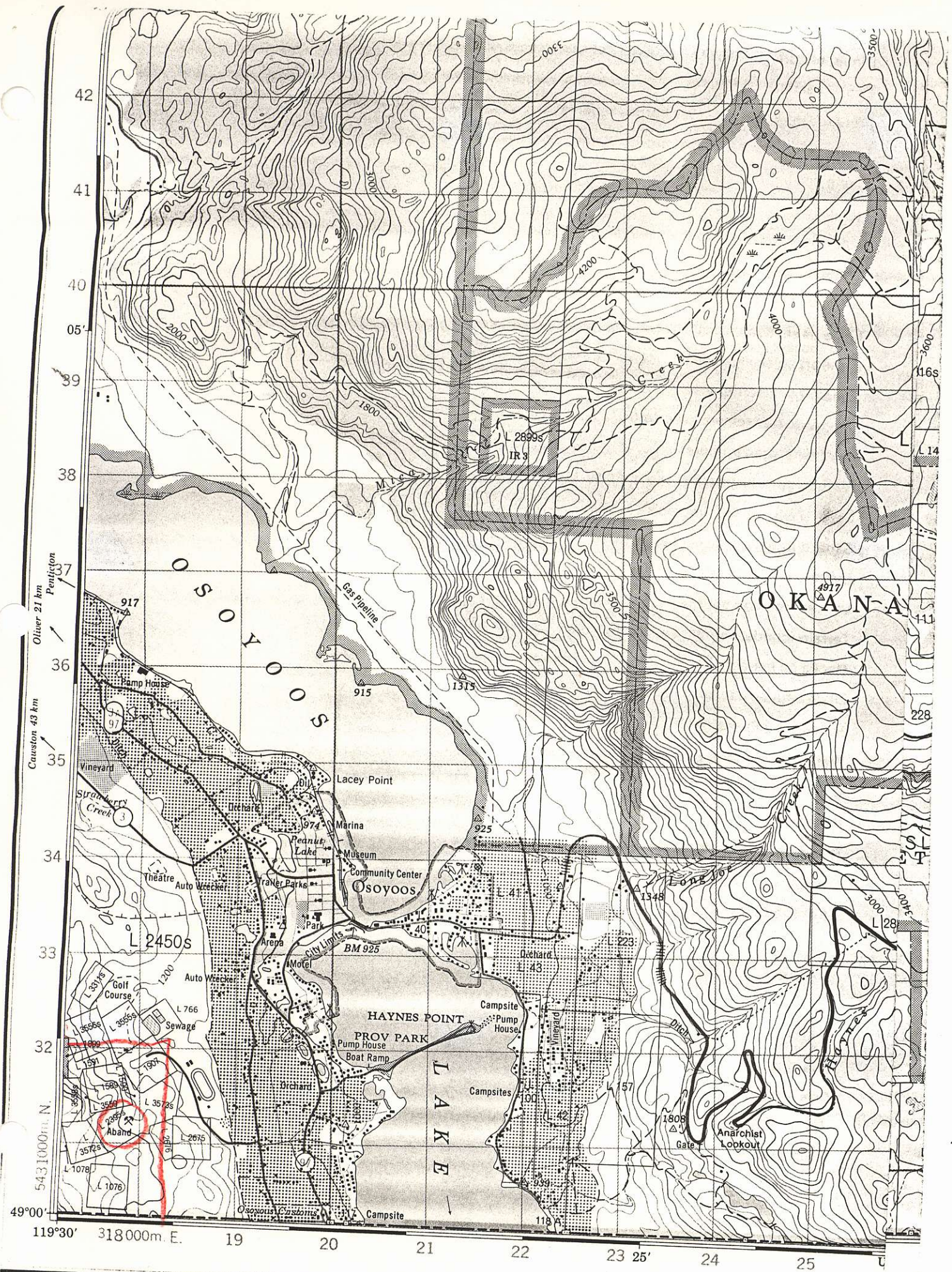
As the mineralization appears to be structurally controlled and the structures seem to be relatively small, the property therefore is unlikely to produce large tonnage of ore. The property is not recommended for acquisition.



SAMPLE DESCRIPTIONS AND RESULTS:

Sample	Description	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
DL 001	From mine, black fine grained hornfels, 25% sulphide, mostly aspy	780	19	82	1.8	742
DL 002	Same as DL 001 with cpy	3600	43	37	7.9	100000
DL 003	From mine, massive well crystallized calcite vein with py, cpy (15%), 0.3m wide	930	39	19	3.6	359
DL 004	From mine, fine grained, highly siliceous, grey, hornfels, unmineralized	125	22	34	2.0	824
DL 005	From mine, black, fine grained, minor pyrite	41	34	75	2.1	93
DL 006	From mine, fine grained, calcareous, garnet skarn, unmineralized	25	26	36	2.3	12
DL 007	From mine, green, fine grained, amphibole porphyry volcanic, unmineralized	110	19	145	1.4	19
DL 008	From mine, black, fine grained, siliceous, calcareous mafic rock, 30% py, po	224	17	46	1.7	73
DL 009	From mine, green, fine grained, hornfels, carbonate veining, finely diss py	32	28	30	2.4	70
DL 010	From mine, green fine grained volc? minor cpy, py	52	18	30	1.8	38
DL 011	From mine, gossan, highly mineralized with py, cpy, and po	46	27	52	3.9	14000
DL 012	Qtz vein in shear zone in trench, 1km south of mine, py, cpy (15%)	7900	12	31	5.4	421
DL 013	Sheared phyllite from above DL 012 trench, lesser amounts of cpy and py	6000	14	57	6.3	153
DL 014	1km NW of mine tailings dump from filled in adit in shear zone, massive magnetite with py and cpy	1070	28	31	2.8	309





Oliver 21 km  
Penticton

Couiston 43 km

5431000m. N.

119°30' 318000m. E. 19 20 21 22 23 25' 24 25

L 2899s  
IR 3

L 2450s

L 3572s

HAYNES POINT  
PROV PARK

OKANA

Osoyoos

LAK E

Aband

Anarchist  
Lookout

Lacey Point

Marina

Community Center

Motel

Golf Course

Sewage

Auto Wrecker

Auto Wrecker

Auto Wrecker

Auto Wrecker

Auto Wrecker

Auto Wrecker

Auto Wrecker

Marina

Museum

Community Center

Motel

Golf Course

Sewage

Auto Wrecker

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Community Center

Motel

Golf Course

Sewage

Auto Wrecker

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Auto Wrecker

Auto Wrecker



PROPERTY NAME: Dividend Group

NTS: 82E/<sup>5</sup>~~12~~ \*

OWNER: Leo Reichert  
Box 514  
Keremeos, B.C.  
VOX 1N0  
(604) 499 2580

LAT: 49° 22'  
LONG: 119° 51'

CLAIMS:

Name	Record Number
Jay #1	2487
Jay #2	2488
Oven	2447
Green Mtn.	2491
Black's Camp	2490
Dividend	2433
Union Gap	2435
Paychex	2434
Pair of Sevens	2430

HISTORY: The Dividend ground was first recorded in 1899 and was active until 1913. The work during this period consisted of a number of pits, trenches and adits in pods of mineralized skarn.

More recently grids have been established and geophysical and soil surveys, along with limited mapping has been carried out.

An old drill site has been discovered along with 200 ft of core near the western boundary of the Green Mtn. Claim.

There is no record of any ore from the property being milled. However the Deanna property of Cominco's, which lies immediately west of the Pair of Seven claims, has yielded 109 tons with 185 oz Au, 54 oz Ag, 1518 lbs Cu. Also Union Carbides Apex property, west of the Dividend Claim has produced 99 tons yielding 5754g Au, 1680g Ag, and 689kg Cu.

GEOLOGY AND MINERALIZATION: The property was mapped by Bostock (Map 628A, Olalla, 1927). He has shown it to be underlain with a mixed package of Paleozoic volcanics, cherts, tuffs, limestones and diorites of the Old Tom, Shoemaker and Independence formations. The general trend is northwest.

The known mineralization occurs in the limestone lens' and flow breccias which along with their volcanic hosts have been metasomatized to hornfels or skarn. Seventeen showings were inspected on the property. All exhibited some degree of hornfels or skarn mineralization, ie. diopside, garnet, scheelite, calcite, usually in massive form. Mineralization was predominantly massive pyrrhotite and magnetite with lesser amounts of chalcopyrite, arsenopyrite and pyrite. The showings form a linear trend regionally, striking approximately Magnetic north. Locally they seem to trend northwest. A new trench on the north central section of the Paychex claim exposes massive garnet and calcite along with the typical massive pyrrhotite. An old adit in the southwest section of Paychex has just been reopened by the owner and is presently being drained. It appears to consist of the same skarn mineralization as the other showings. It also appears, due to the small size of the dump that the ore must have been shipped out for milling. The showings visited occur on the north slope of Green Mtn, the south slope of Dividend Mtn. and the south end of the Paychex claim.

Twenty seven samples were taken during the tour. The sample results from the Dividend property were surprisingly low. Of the twentyseven samples taken the highest Au value returned is 112 ppb (DV 14). Ag was more responsive but not greatly so, with 6 samples over 2 ppm, the best being 3.6 ppm (DV 14) and 4.3 ppm (DV 18). Copper was the most responsive as 8 samples returned values better than 2000 ppm, the highest being 4300ppm (DV 1). This is not surprising as chalcopyrite is common in these rocks.

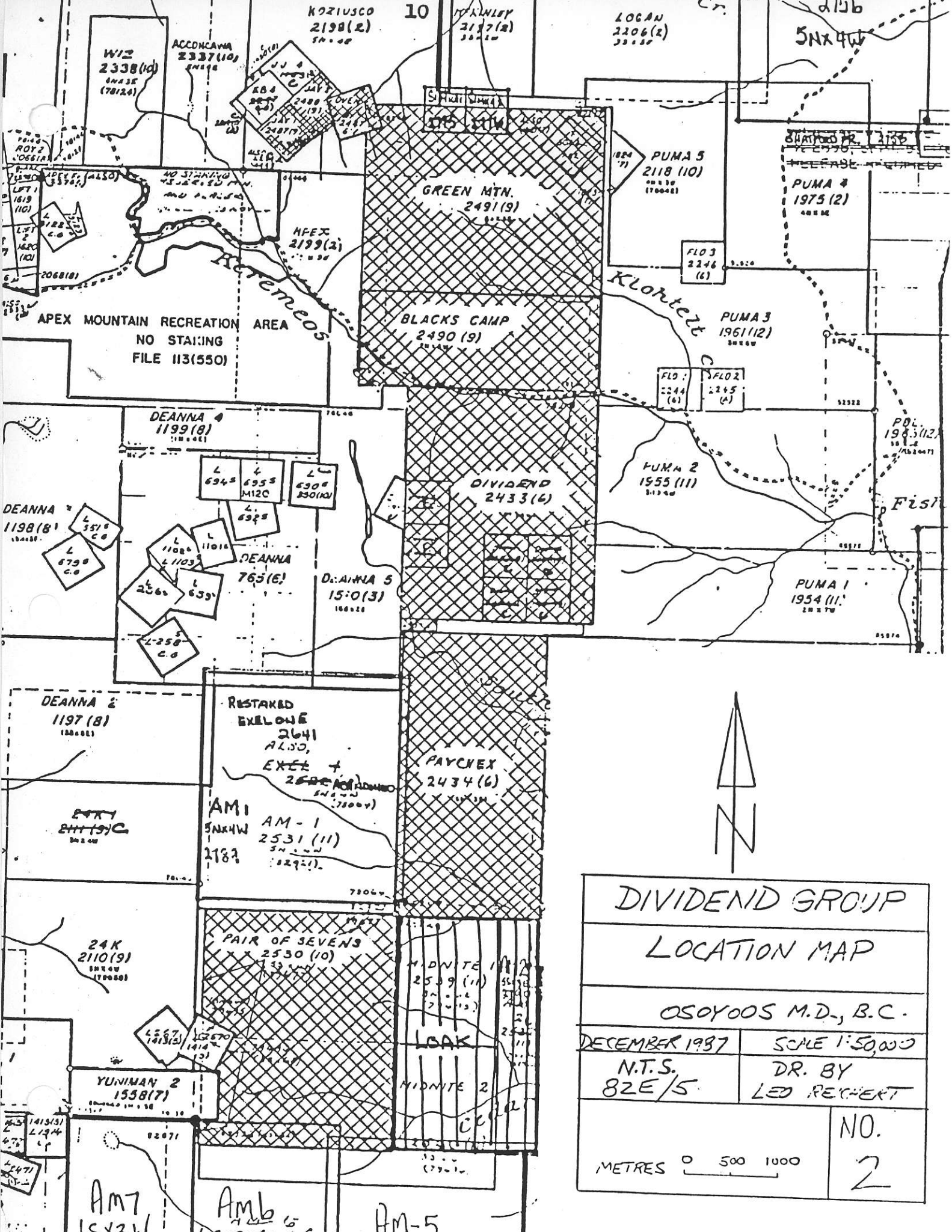
The regional extent and number of showings of reoccurring similar mineralization is impressive. To postulate that they are continuous throughout the approximately 8km of potential strike would be a quantum leap of the imagination.. However the intensity and continuity of the mineralization could be an indication of less intense porphyry type mineralization peripheral to and at depth from the highly altered zones.

Due to the number of samples taken and the low precious metal values returned it seems that this property should not be acquired at this point. If in the future another exploration outfit were to further develop the property it could be worth a second look. It would be wise to keep tabs on it.

## RESULTS

Sample	Description	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
DV1	Massive sulphide skarn: cpy, py, po	4300	14	29	1.7	21
DV2	Massive sulphide skarn: cpy, py, po	1600	17	36	2.1	3
DV3	Massive sulphide skarn: py, po	92	3	17	0.5	2
DV4	Massive sulphide skarn: cpy, py, po	1200	19	39	2.0	29
DV5	Silicified chert: cpy, py, po	290	10	35	1.0	5
DV6	Silicified chert: po, py	292	12	132	0.9	2
DV7	Massive sulphide in Old Tom volc. bx: po, cpy	2900	24	41	2.9	19
DV8	Massive sulphide skarn: po, cpy, garnet	1500	22	19	2.2	14
DV9	Silicified skarn: garnet, pyroxene	162	5	15	0.6	3
DV10	Silicified skarn: garnet, pyroxene	2400	20	26	1.9	4
DV11	Massive sulphide: po, aspy, cpy	1300	12	20	1.0	2
DV12	Massive py, po in silicified chert	720	27	23	2.7	17
DV13	Vuggy quartz gossan	3300	14	21	1.8	18
DV14	Massive sulphide	3900	23	33	3.6	112
DV15	Massive sulphide	3800	16	43	2.3	20

DV16	Brecciated limestone of the Shoemaker Fm.	2300	22	22	2.4	18
DV17	Massive magnetite with py, malachite	4000	25	94	3.2	30
DV18	Massive py with magnetite	368	28	33	4.3	50
DV19	Massive calcite and garnet	35	27	15	2.0	18
DV20	Massive garnet	59	20	28	1.6	3
DIV001	Shear in phyllitic greenstone, shear at 020/90 10% disseminated pyrite	133	21	45	0.6	5
DIV002	Fine grained dark green hornfels, 15% py on fracture surfaces	65	22	66	0.7	2
DIV003	Fine grained green hornfels 20% py diss. in veinlets	550	22	73	0.9	4
DIV004	Skarn: 50-70% py, cpy	8100	46	144	10.0	114
DIV005	Massive garnet skarn, 75% sulphides	450	43	46	2.4	6
DIV006	Massive sulphide from fold limb	273	17	66	0.6	4
DIV007	Massive sulphide	382	32	25	12.0	87

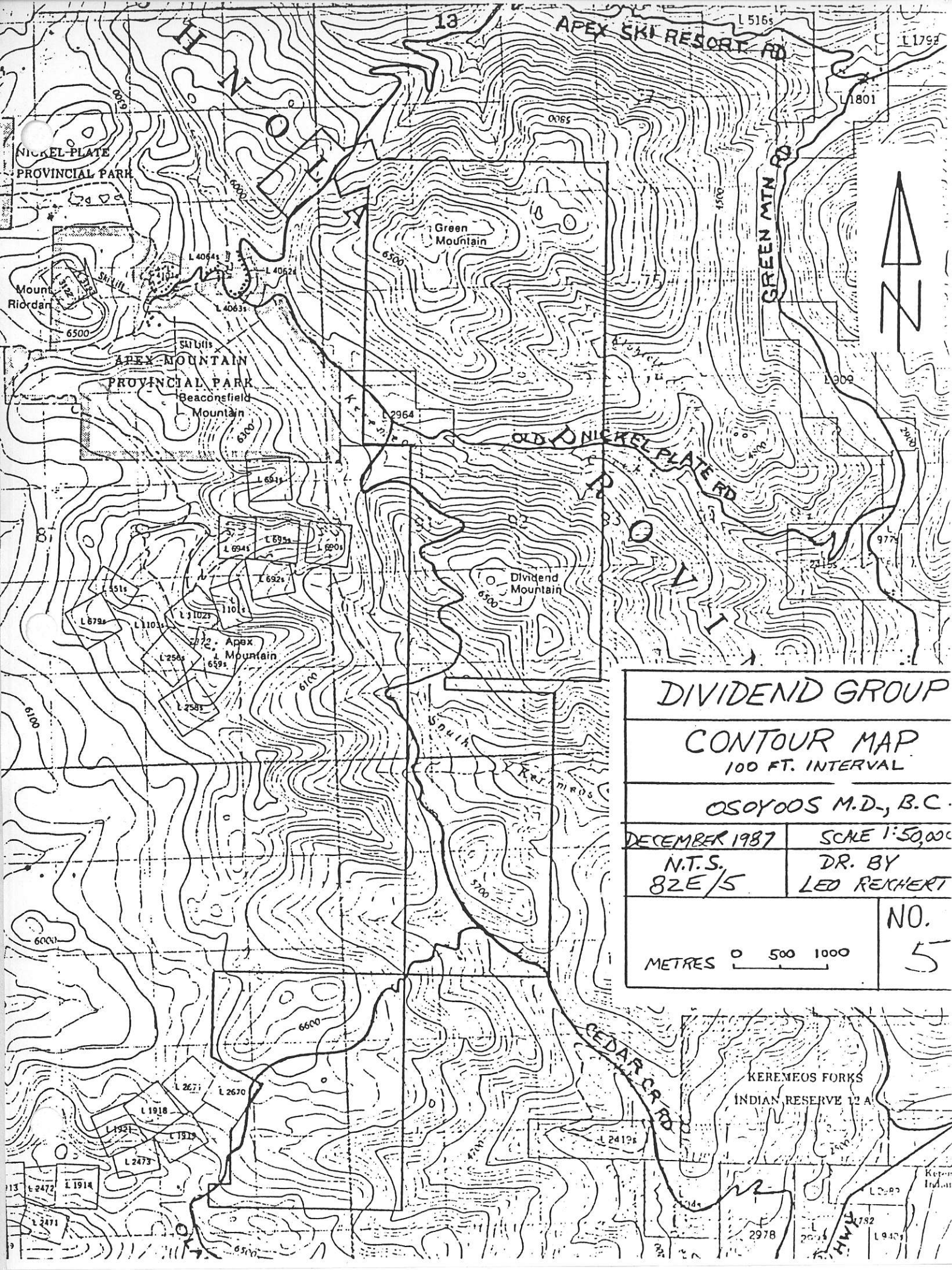


**DIVIDEND GROUP  
LOCATION MAP**

OSOYOOS M.D., B.C.

DECEMBER 1987	SCALE 1:50,000
N.T.S. 82E/5	DR. BY LEO RECHERT
NO. <b>2</b>	

METRES 0 500 1000



**DIVIDEND GROUP**

**CONTOUR MAP**  
100 FT. INTERVAL

OSOY00S M.D., B.C.

DECEMBER 1987      SCALE 1:50,000

N.T.S.      DR. BY  
8ZE/5      LED REKHERT

METRES 0 500 1000

NO.  
5



Dividend Group

<u>Claim Name</u>	<u>Record Number</u>	<u>Expiry Date</u>
Jay # 1	2487	Sept. 19, 1988
Jay #2	2488	Sept. 19, 1988
Oven	2447	June 30, 1988
Green Mtn.	2491	Sept. 29, 1988
Black's Camp	2490	Sept. 29, 1988
Dividend	2433	June 16, 1988
Union Gap	2435	June 16, 1988
Paychex	2434	June 16, 1988
Pair of Sevens	2530	Oct. 31, 1988

## FAIRVIEW CAMP

### PROPERTY NAME:

Name	Lot #	Lat	Long
Silver Bull	L730	49° 12'	119° 37'
Joe Dandy	L447, L664	49° 11'	119° 36'
Powis Mine	L944	49° 10'	119° 37'
Tin Horn Mine		49° 09'	119° 37'

OWNER: Leo Reichert  
Box 514, Keremeos, B.C.  
VOX 1N0  
(604) 499 2580

LOCATION: NTS 82E/4E, 5 kilometres west of Oliver

GEOLOGY: All of the claims are within the historic Fairview Camp. The area is underlain with the Paleozoic Kobau Group Quartzites and Phyllites with minor greenstone and argillite. These are intruded by the Mesozoic Oliver and <sup>Fairview</sup> Osoyoos Granodiorite. Mineralization occurs predominantly in E-W striking quartz veins. Mineralization may consist of one or more of galena, pyrite, chalcopyrite, sphalerite, pyrrhotite and arsenopyrite. The quartz veins generally occur in close proximity to the intrusives and are generally considered to be a late stage of the intrusive event.

Production data for the Tinhorn and the Powis properties has been obtained. The Tinhorn in 1898 and 1942 milled 181 tonnes producing 1400 g Au and 467 g Ag. The Powis in the years 1939, 1942, 1963, and 1973 produced a total of 137 tonnes yielding 2643 g Au and 3763 g Ag. These two properties have very similar ore bodies. The Au in each is found in a bluish-white quartz vein which strikes E-W and are related to an adjacent granodiorite intrusive but are hosted in Kobau group metasediments and metavolcanics. Mineralization consists of pyrite, galena and some tellurides. On the Powis property, massive sulphide mineralization was found in

one outcrop consisting of sphalerite, arsenopyrite, chalcopyrite and pyrite. This was sampled as LR8 and LR9. They ran 6900 ppm Zn, 1.0 ppm Ag, 159 ppb Au and 46500 ppm Zn, 3.3 ppm Ag, 138 ppb Au respectively.

The highest return from any of the claims is a 100,000ppb Au (LR7) from a gossan with arsenopyrite, pyrite, sphalerite and chalcopyrite mineralization in contact with a 1m wide quartz vein trending E-W which is presumably the vein the Powis adit is driven in on.

Samples LR10, LR11, and LR12 are from the Tinhorn property. LR11 ran 754 ppb Au and 13.3 ppm Ag. It is the typically bluish-white vitreous quartz vein with 1% pyrite and was taken from the dump.

Lot 730, the Silver Bull property is also a quartz vein striking 020 in contact with gneissic granodiorite (LR2). The adit and vein are inaccessible.

Lot 447, the Joe Dandy property, is also a quartz vein which is inaccessible. The one accessible adit ran through quartzite and gossanous quartzite. The samples (LR3, LR4, LR5) returned low values.

Sample LR1 was taken from the Stemwinder quartz vein which is not part of Leo Riechert's package of properties.

Nothing of interest was ascertained from the Silver Bull and Joe Dandy claims.

The Tinhorn and Powis properties returned anomalous Au values and show some potential. As both properties have been mined, the amount of ore which remains is a concern as a small tonnage mine is a definite scenario. The lateral extent of each ore body certainly is limited. The mineralized strike length needs to be determined.

The owner, Leo Riechert, has offered these properties verbally, as a "free bonus" if the Dividend property is acquired.

P.S. The Tinhorn and Powis properties have since been optioned to an American outfit so are no longer available.

- LR-1 -From stemwinder adit, 3 m wide qtz vein -  
not Leo's property
- LR-2 -Lot 730, Silver Bull - an altered  
gneissic granodiorite
- LR-3 -Lot 447, Joe Dandy  
-graphitic quartzite in adit
- LR-4 -Lot 447  
-gossan from adit
- LR-5 -Lot 447  
-quartzite from portal where Shangrila  
reported 0.5 oz/ton
- LR-6 -Lot 447  
-gossan from dump
- LR-7 -Lot 946, Powis  
-from open cut exposing E-W quartz vein  
up 1 m wide, gossan with arsenopyrite,  
pyrite, shulerite, chalcopyrite and  
magnetite
- LR-8 -Powis north showing, float
- LR-9 -Powis north showing
- LR-10 -Tinhorn, lower adit  
-granodiorite 20 m north of adit on road
- LR-11 -Tinhorn  
-blue vitreous quartz vein with 1% pyrite  
from tailings dump
- LR-12 -Tinhorn, float in dump but not tailings  
-fine grained intrusive or quartzite with  
10% pyrite

**MIN  
• EN  
LABORATORIES**

SPECIALISTS IN MINERAL ENVIRONMENTS  
• CONSULTING • ADVISERS • ANALYSIS • CHEMISTRY

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 NORTH VANCOUVER, B.C. CANADA V7M 1T2  
 TELEPHONE (604) 980-5814 OR (604) 988-4524  
 TELEX: VIA U.S.A. 7601067 • FAX (604) 980-9621

**TIMMINS OFFICE:**  
 33 EAST IROQUOIS ROAD  
 P.O. BOX 867  
 TIMMINS, ONTARIO CANADA P4N 7G7  
 TELEPHONE: (705) 264-9996

Geochemical Analysis Certificate

9V-0574-RG2

Company: MINNOVA INC.  
 Project: 624  
 Attn: G.EVANS

Date: JUL-05-89  
 Copy 1. MINNOVA INC., VANCOUVER, B.C.  
 2. MINNOVA INC., PENTICTON, B.C.

We hereby certify the following Geochemical Analysis of 16 ROCK samples submitted JUN-28-89 by J.JAMES.

Sample Number	CU PPM	PB PPM	ZN PPM	AG PPM	AU-FIRE PPB
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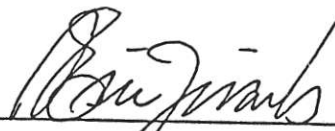
LR1	55	620	179	21.0	1500
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LR2	17	18	57	0.8	2
LR3	42	16	136	1.2	33
LR4	595	24	120	2.6	21
LR5	104	5	22	0.4	18
R6	880	15	21	1.6	54

LR7	1090	1480	1800	83.0	100000
LR8	81	12	6900	1.0	159
LR9	80	20	46500	3.3	138
LR10	23	11	119	0.6	17
LR11	220	2500	3000	13.3	754

LR12	22	16	73	0.7	3
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Certified by



MIN-EN LABORATORIES



**AN**

**82E/4E  
1:50,000**

**X Au PRODUCE**

**(OLIVER)**

**OKA TINGATI**

**Hoynes**

**Hester Cr.**

VILLAGE OF OLIVER  
MINERAL RESERVE  
O.I.C. 1055, 83-06-29  
NO STAKING

MINERAL + PLACER  
O/L 3476 DEC. 18/65  
+ 3614 DEC. 30/65

**FAIRVIEW**

**2176(1)**

**TIN HORN B3  
1764(5)**

**TIN HORN  
300  
1617(10)**

**TIN HORN 400  
1618(10)**

**BALLYHOOD  
1302(12)**

**MAK  
187C(9)**

**JOE DANDY  
200  
1616(10)**

**WINDERP  
1504(12)**

**STEM 1  
1506(2)**

**WINDER  
3  
1255(10)**

**SEARCH  
1659  
(2)**

**STEM 2  
1509  
(2)**

**EWB  
1692(3)**

**NCL 1  
1296(12)**

**NCL 2  
1339(3)**

**NCL 3  
1340(3)**

**100  
1515(10)**

**BYR 3  
1863(2)**

**COLUMBUS  
1875  
191**

**CUMBRIA  
1348(2) 1345(3)**

**CUMBRIA  
1347(1) 1346(3)**

**FOXY 3  
1808(6)**

**1223(B)**

**REAL #  
470 (HEL. C)**

**ASTRO 32**

**224(3)**

**Ripley L.**

**MCM  
162(1)**

**PLACER RESERVE  
O.I.C. 1413, 7-0-65  
NO PLACER STAKING**

**CAT  
163(1)**

**MOUS  
164(1)**

**ALLIE  
161(2)**

**Victoria Cr.**

**Sawm  
1693(3)**

**LAUB  
170(1)**

**STEM 1  
1506(2)**

**WINDER  
3  
1255(10)**

**SEARCH  
1659  
(2)**

**STEM 2  
1509  
(2)**

**NCL 1  
1296(12)**

**NCL 2  
1339(3)**

**NCL 3  
1340(3)**

**100  
1515(10)**

**BYR 3  
1863(2)**

**COLUMBUS  
1875  
191**

**Tugurn L.**

**view**

**1090**

**TIN HORN B3  
1764(5)**

**TIN HORN  
300  
1617(10)**

**TIN HORN 400  
1618(10)**

**BALLYHOOD  
1302(12)**

**MAK  
187C(9)**

**JOE DANDY  
200  
1616(10)**

**ALSO  
1330**

**TIN HORN 400  
1618(10)**

MINERAL + PLACER  
O/L 3476 DEC. 18/65  
+ 3614 DEC. 30/65

**Hoynes**

**Hester Cr.**

**OKA TINGATI**

PROPERTY NAME: Mt Marble

NTS: 82E/12

OWNER: H.E. Jensen  
RR 4 5313 Gartrell Rd.  
Summerland, B.C.  
VOH 120

LAT: 49 42'30"  
LONG: 119 46 30

MINING DIVISION: Osoyoos

DATE VISITED: September 11, 1989

CLAIMS: 14 2 post claims

Claim	Record Number
Marble I	2692 (9)
Marble II	2693 (9)
Marble III	2694 (9)
Marble IV	2695 (9)
Marble V	2696 (9)
Marble VI	2697 (12)
Marble VII	2882 (5)
Marble VIII	2890 (6)
Marble IX	2991 (6)
Marble X	2892 (6)
Marble XI	2893 (6)
Marble XII	2894 (6)
Marble XIII	2895 (6)
Marble XIV	2896 (6)

LOCATION AND ACCESS: The property is located 13 km north of Summerland along the Garnet Lake Road. It lies directly east of Garnet Lake on the west slope of Mt. Marble.

GEOLOGY: Three rock types were mapped on the property. The most prevalent is a Mesozoic granodiorite which lies under the western 2 claims and the eastern 2 claims. It is a schistose weathered, medium grained rock. Intruding into the granodiorite is the Tertiary Coryell syenite. It occurs as a fresh, medium to coarse grained pink syenite. The third rock type is limestone which is occasionally metamorphosed to marble. The owner has identified skarn on the property which is apparently unmineralized. It is likely he is referring to the marble.



SAMPLE DESCRIPTIONS:

		Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
MMN 001	Coryell Syenite					
MMN 002	Gossanous Syenite					
MMN 003	Gossanous Syenite	48	31	51	0.6	3
MMN 004	Silicified Alt. Granodiorite	6	12	34	0.2	5
MMN 005	Translucent unmin. quartz vein	23	14	59	0.2	3
MMN 006	Gossanous schistose granodiorite, 2% py	275	17	66	0.6	4
MMN 007	Bull quartz vein, 5% scheelite	84	7	9	0.2	6
MMN 008	Bull quartz vein, 10% scheelite, 3% cpy	72	5	8	0.2	4
MMN 009	Gossanous, clay alt schistose granodiorite	102	19	61	0.8	2

Samples MMN 005, 007, and 008 are quartz veins from pits prospected in the 1800's. Sample MMN 005 is a quartz vein, unmineralized and 25cm wide. Samples 007 and 008 are from a large pit approximately 3m by 3m by 8m deep. The pit is inaccessible and the samples were taken from blast rock. The vein seems consistently mineralized with approximately 8% scheelite and 2% chalcopyrite. Its size and orientation were undeterminable. Both veins are hosted in the granodiorite.

The owner has completed an SP geophysical survey over the eastern half of the property. He has targeted an anomalous zone approximately 5m by 1000m by 120m deep which could represent a massive sulphide lens. The survey appears to have been done correctly and the data ~~is~~ substantiates his view. There is no surface expression of the zone. The owner is planning to undertake a resistivity survey in the spring of 1990.

At this point the only target on the property is the S.P. anomaly as the samples all returned poor results. The property is not recommended for acquisition.











PROPERTY NAME: Lone Pine Creek

NTS: 82E/12<sup>4</sup>\*

OWNER: Todd Parsons  
RR 1  
Keremeos, B.C.  
VOX 1N0  
(604) 499 5815 or 499 2312

LAT: 49° 40' 30"  
LONG: 119° 34'

CLAIMS: 52 units in good standing, 1 reverted crown grant  
(White Knight)

Claims	Record Number	Lot Number	Units
LP #1	3182		20
LP #2	3078		16
LP #3	3188		16
White Knight (RCG)		1081	

LOCATION AND ACCESS: The Lone Pine claim group is located approximately 6km west of Osoyoos and is contiguous with the international border. The claims are accessed by Kilpoola Lake rd which runs south of highway 3 approximately 6km west of Osoyoos.

PRODUCTION HISTORY: No production data has been located but the submarine adit in the White Knight claim has had a visually estimated 40,000 tons removed. The grades are reported to be sporadically high values in gold and silver (Minister of Mines Report 1921, G178).

GEOLOGY: The property is shown to be underlain with Mesozoic Nelson plutonic rocks on the west half and Paleozoic Kabou group rocks on the east half (Little, 1959). On site inspection correlates with this interpretation with the exception that the Nelson granodiorite is intermixed with Kruger syenite of the same age.

Five adits were visited during the visit. The first, on the southeast corner of the LP3 claim, (actually, it is approximately 10m into the States) could be more properly described as a pit. It exposes a narrow (approximately 3cm wide) quartz vein which is heavily mineralized with galena, minor pyrite and very minor chalcopyrite. The vein is apparently flat lying and in a shear zone. The pyrite is related to a second stage of silicification within the main vein. The vein could not be traced on surface. Samples LP002, <sup>LP003</sup>LP004, and LP005 were taken from this vein. \*

A vertical shaft was inspected on the northwest corner of LP1 and sampled as LP006. The shaft exposes a 1m wide quartz vein within Kabou phyllites. It dips steeply west and strike<sup>s</sup> approximately north. It is heavily mineralized with pyrite, pyrrhotite and some chalcopyrite, within a translucent blue portion and is barren in the bull white portion. The shaft has unknown depth. Approximately 400m of old core was discovered nearby which revealed a diorite, pyritic mafic volcanic and a quartz breccia. The drill hole location is unknown.

Three adits were visited on the White Knight reverted crown grant. The first exposed a pyritic quartz vein in a highly sheared zone, only the entrance is accessible (Sample LP007). The vein is up to 1m thick. An adjacent adit exposes what is likely the same vein. There the vein reaches 2m in thickness and is flat lying. A 1m channel sample (LP008) was taken across the vein. Approximately 50m west is the submarine adit. It extends approximately 200m at 320 degrees along a flat lying quartz vein. It is consistently mineralized with galena, pyrite, and minor chalcopyrite. It is estimated 40,000 tons of rock has been removed. Gold and silver values are reported to be sporadic. The vein is consistently up to 4m thick. It is likely the same vein as is exposed in the other adits. Samples LP009 and LP010 were taken here.

A brief report and claim map has been submitted by the owner.

To properly determine the submarine adits potential it would be worthwhile to channel sample the vein over a large area. The Minister of Mines Report, 1921, reports high gold and silver values within the sulphide but describes the sulphides as being sporadic. I observed a fairly high concentration of sulphides. If indeed they do carry high values the average grade of the vein should be correspondingly high. The areal extent of the vein is unknown but the presence of the other adits indicates it could be quite extensive.

SAMPLE DESCRIPTIONS AND RESULTS:

Sample No.	Description	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
LP001	Qtz vein on rd 30cm wide vuggy, hematitic, oxidized translucent blue	60	10	13	2.0	37
LP002	Qtz vein in LP3 Pit Flat lying, 2.5cm thick galena, pyrite	50	3450	52	32.5	696
LP003	LP#3 Pit, from dump bull qtz, blebs of galena	173	4800	345	33.5	389
LP004	LP#3 Pit, from dump qtz with secondary silic. with pyrite and galena	45	1300	24	4.9	43
LP005	LP#3 Pit heavy crystalline galena bull quartz	460	3600	20	58.5	5100
LP006	LP#1, from dump at shaft translucent blue qtz diss. po, py, cpy	610	375	28	5.0	130
LP007	White Knight Adit #1 qtz vein up to 1m thick in shear; white to translucent; approx. 30% fgr blebs of py	160	615	426	6.2	74

LP008	White Knight Adit #2 qtz vein, flat lying 1m channel across vein, 2m wide pyritic and fgr grey gouge	2700	18500	6500	91.5	596
LP009	Submarine adit (approx 200m length) Heavily mineralized fault gouge (py, ga, cpy?)	240	270	1260	3.5	16
LP010	Submarine adit bull qtz approx. 30% ga and py vein is 4m thick	620	32500	6300	58.5	71

ACME ANALYTICAL LABORATORIES LTD.  
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6  
PHONE(604)253-3158 FAX(604)253-1716

DATE RECEIVED: SEP 21 1989

*Sept. 29/89*

DATE REPORT MAILED:

### ASSAY CERTIFICATE

- SAMPLE TYPE: ROCK  
AU\*\* AND AG\*\* BY FIRE ASSAY FROM 1/2 A.T.

SIGNED BY. *C. Long* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

TODD PARSONS FILE # 89-3818

*Taken by  
Todd*

SAMPLE#	Ag**	Au**
	OZ/T	OZ/T
LP3 ADIT	9.33	.073
LP COR 1	.05	.001



ACME ANALYTICAL LABORATORIES LTD.

DATE RECEIVED: OCT 12 1989

852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6

PHONE (604) 253-3158 FAX (604) 253-1716 DATE REPORT MAILED:

*Oct 18/89*

### ASSAY CERTIFICATE

- SAMPLE TYPE: ROCK  
AU\*\* AND AG\*\* BY FIRE ASSAY FROM 1/2 A.T.

SIGNED BY *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

TODD PARSONS FILE # 89-4257

SAMPLE#	Ag** OZ/T	Au** OZ/T
LP3 ADIT 2	.08	.024
LP3 TRENCH	.64	.006

Todd Parsons

Oct 30/80

channel samples

submarine Adit

Main Submarine Adit

LP claims

Taken by Todd Parsons

on Oct 29/80

303° for 30 m.  
330° for 25 m.  
42° for 11 m.  
45° for 12 m.  
344° for 11 m.  
314° for 30 m.  
Total = 125 m. long

#### Branches and Rise

20 m. in Branch 5° for 10 m.  
24 m. in rise - vertical 4 m.  
43 m. in branch 74° for 3 m.  
67 m. in branch 312° for 15 m.  
95 m. in branch 31° for 5 m.  
276° for 10 m.

118 m. in branch 31° for 4 m.

this branch rises 2 m.

then this branch reverses back to 116° for 5 m.

(rediscovers quartz vein - very mineralized).

Seven samples were taken in this main submarine adit. The samples were mostly taken after a major change in the direction of the vein to locate any ore shoots.

Sample 001 was taken in area rich in pyrite.

Sample 006 was taken from area slightly more gossany than rest of branch (but all of the branch is very pyrite and galena rich).

Sample 008 is only sample from adit that is not a channel sample it is a grab sample of mineralized country rock. Contains large quantity of disseminated pyrite.

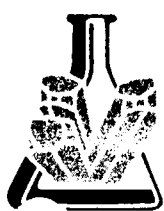
Sample 002, 003, 004, and 005 appeared to be taken from very average areas. These areas appeared to be barren

or little mineralized quartz but when channels, were cut vertically in sidewalls it was found that there was many galena and pyrite bands. I had not seen the galena in this adit until these samples were taken.

- Sample 001 - 11 m. in Submarine adit.  
 - across top of adit  
 - sample 3" wide & 4 ft. long - ½" deep
- 002 - 44 m. in Submarine adit  
 - found to cut at 90° an 8" mineralized zone.  
 - 3 m. on east wall 2" inch wide channel sample (vertical).
- 003 - 67 m. in Submarine adit  
 - 2 inch wide channel on eastwall on 5 ft. quartz vein  
 ( vertical channel).
- 004 - 78 m. in Submarine adit  
 - 2 inch wide vertical channel sample  
 - cuts 7 foot quartz vein.  
 - found to cut a 5 inch streak of pyrite & galena at 90°
- 005 - 96 m. in Submarine adit  
 - vertical channel sample off westwall  
 - 2 m. long, 2 inches wide, 1 inch deep  
 - all in quartz vein.  
 - found to cut four 1 inch galena streaks & one 2 inch  
 pyrite streak at 90°.
- 006 - 2.5 m. from the end of the branch that starts 118 m. in  
 - 7 ft. long, 2 inch wide channel sample off eastwall  
 (all quartz).
- 007 - grab sample 4 m. in same branch  
 - mineralized country rock.
- 009 - from pit labelled glory hole by an old assessment report.  
 010 This glory hole is mostly filled in but I hope I sampled  
 the material they were looking at. The samples came off  
 the walls of the pit - not channel samples. This pit is  
 shown on the map I drew for you. It is west of the  
 Submarine adit near the LCP of the LP 1 claim.  
 - 009 from southwall  
 - 010 from westwall  
 - both samples are very oxidized and gossany but some pyrite  
 is visible in 010.
- 011 - found in a small hole 4 m. southwest of glory hole.  
 - malachite stain on country rock.

Several very mineralized pieces of quartz found around here.

- 012 - is sample from a vein I found in the ~~vein~~ mine in the LP 3 claim.
- The vein is between the adit on the U.S. border in the LP 3 claim and trench groups on the LP 3 claim.
  - The vein is horizontal and a couple of feet tall ( hard to tell).
  - cannot tell dip.
  - the sample is very oxidized and most sulphides have been wethered away but a couple of pieces of galena are visible.



**MIN  
• EN  
LABORATORIES**

SPECIALISTS IN MINERAL ENVIRONMENTS  
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

**RECEIVED**  
NOV. 10 1989  
Ans'd

**VANCOUVER OFFICE:**  
705 WEST 15TH STREET  
NORTH VANCOUVER, B.C. CANADA V7M 1T2  
TELEPHONE (604) 980-5814 OR (604) 988-4524  
TELEX: VIA U.S.A. 7601067 • FAX (604) 980-9621

**TIMMINS OFFICE:**  
38 EAST IROQUOIS ROAD  
P.O. BOX 867  
TIMMINS, ONTARIO CANADA P4N 7G7  
TELEPHONE: (705) 264-9996

*Assay Certificate*

9V-1473-RA1

Company: MINNOVA INC.  
Project: 624  
Attn: I.PIRIE/N.GIBSON

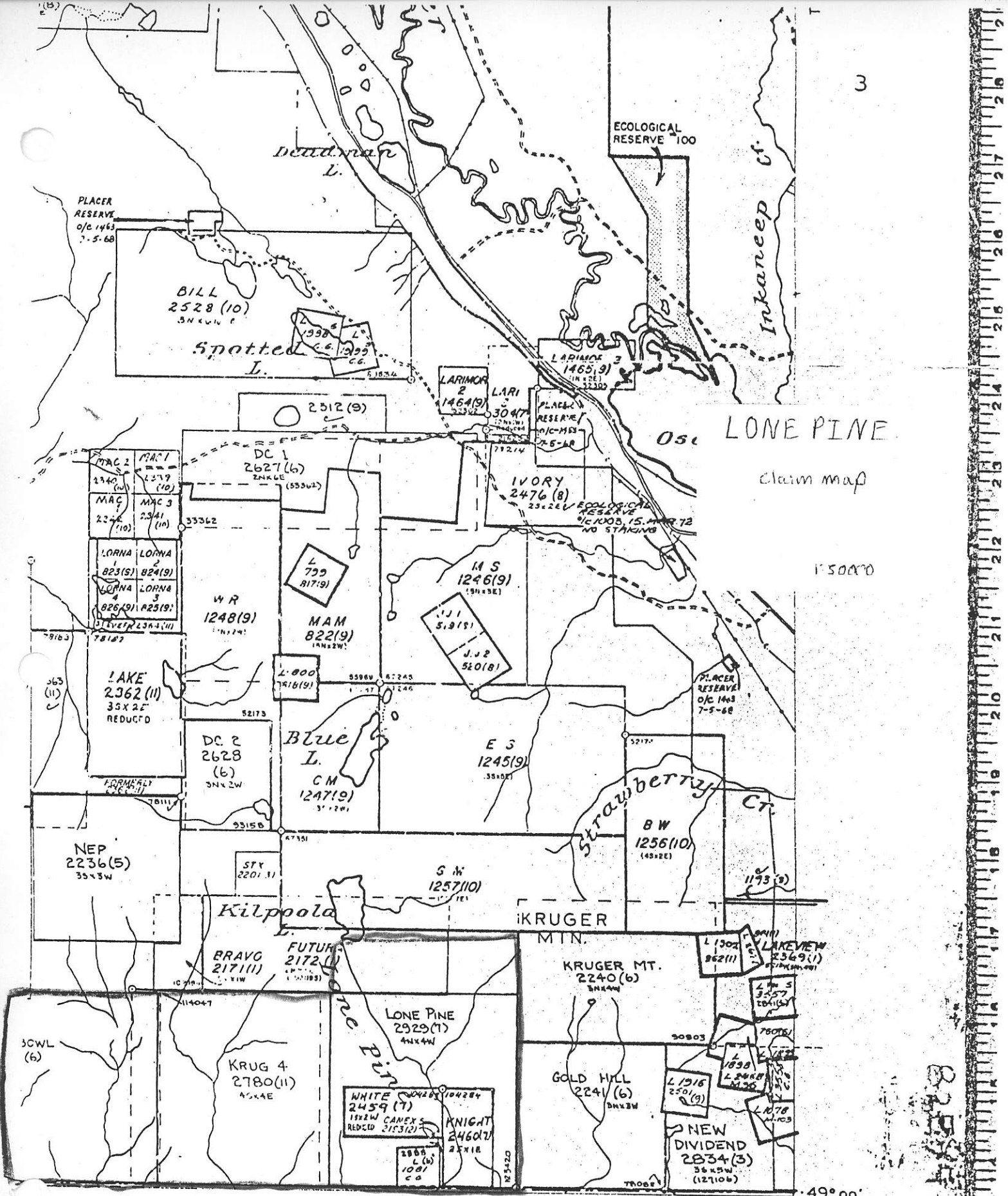
Date: NOV-07-89  
Copy 1. MINNOVA INC., VANCOUVER, B.C.

*We hereby certify the following Assay of 11 ROCK samples submitted NOV-04-89 by N.GIBSON.*

Sample Number	CU %	PB %	ZN %	AG G/TONNE	AG OZ/TON	AU G/TONNE	AU OZ/TON
LP89001	.029	.05	.02	7.8	.23	.21	.006
LP89002	.010	.18	.02	2.0	.06	.01	.001
LP89003	.021	.03	.11	2.5	.07	.01	.001
LP89004	.373	2.10	.10	112.0	3.27	.60	.018
LP89005	.122	9.05	.29	151.0	4.40	.76	.022
LP89006	.580	2.61	2.62	337.0	9.83	1.36	.040
LP89007	.043	.17	.14	16.3	.48	.19	.006
LP89008	NO	SAMPLE					
LP89009	.080	.08	.01	2.1	.06	.01	.001
LP89010	.038	.02	.01	3.0	.09	.12	.004
LP89011	.356	.01	.01	4.2	.12	.12	.004
LP89012	.011	1.01	.01	33.7	.98	.01	.001

Certified by \_\_\_\_\_

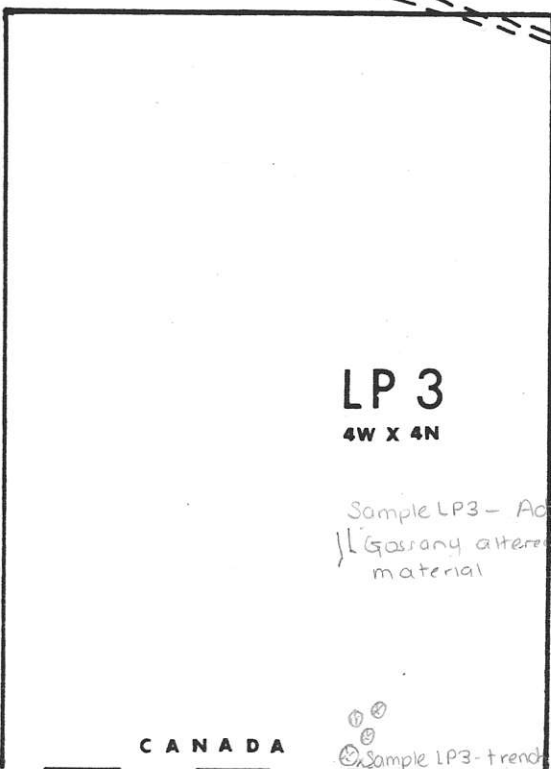
MIN-EN LABORATORIES



EUM RESOURCES

This map is prepared to serve as a guide to the positions of located mineral claims and Placer Mining Leases only. Unsurveyed

8254 E  
8254 E  
8254 E



**LP 3**  
4W X 4N

Sample LP3 - Adit 2  
Gossany altered material

CANADA  
U. S. A.

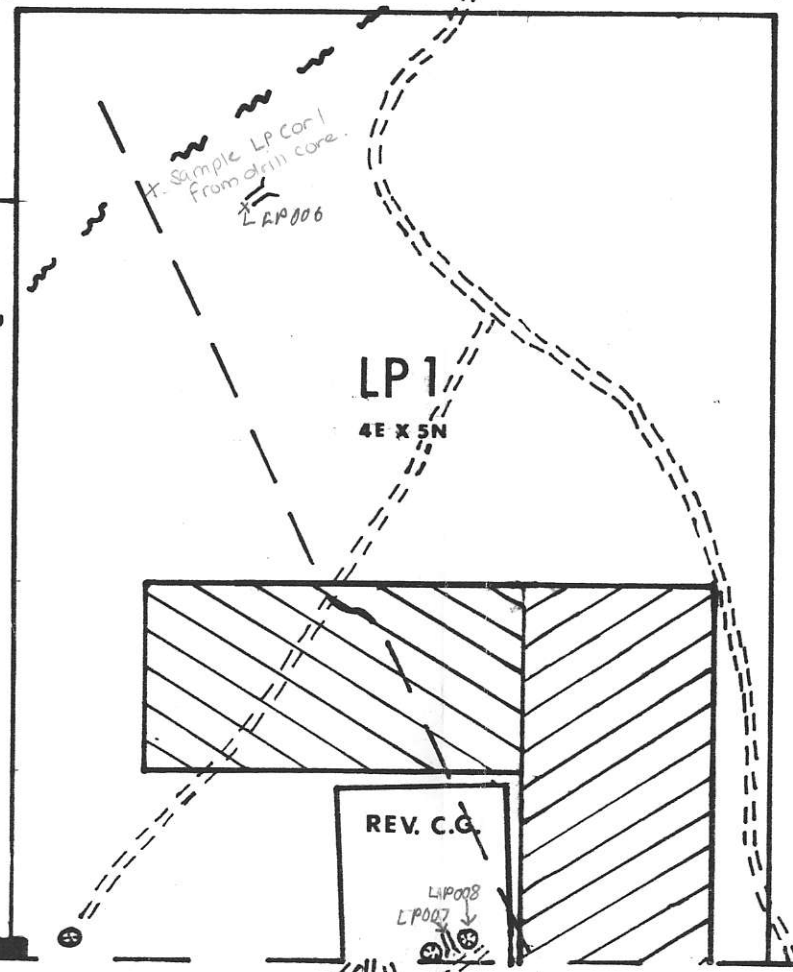
Sample LP3 - trend  
contains galena  
and pyrite.

LP001

**LP 2**  
4W X 4N

LP002-005

Sample LP3 - Adit  
Like your LP005 sample.



**LP 1**  
4E X 5N

Sample LP Cor 1  
From drill core.  
LP006

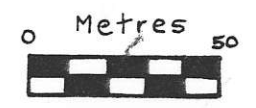
REV. C.G.

LP008  
LP007

LP009  
LP010

SUBMARINE MINE

U. S. A.



- CONTACT
- ~ FAULT
- ⊕ PIT
- || ADIT
- == ROAD

N.T.S. 82E/4



PROPERTY NAME: MAM

OWNER: (Previous Owner): Highmark Resources LAT: 49° 03.5'  
(Recently Acquired by): Duncan C. Wing LONG: 119° 33.3'  
1803 - 13330 Old Yale Rd. Surrey, B.C.  
and  
Milan Gubash  
406 - 1651 Harwood Street,  
Vancouver, B.C.

They are presently attempting to be listed on the VSE as  
Tobo Gold Resources

CLAIMS:

Name	Record #	Lot #	Units
JJ #1	519		
JJ #2	520		
MAM	822		10
Reverted C.G.	817	799	
Reverted C.G.	818	800	
ES	1245(9)		15
MS	1246(9)		15
CM	1247(9)		6
WR	1256(10)		14
GM	1257(10)		14
BW	1256(10)		8

ACCESS: Access to the claims is achieved via highway 3, south  
along Kipoola Lake Rd, 6 kilometres west of Osoyoos.

PRODUCTION: No mines existed previously on this property. The  
nearest past producers are Dividend-Lakeview and Dankoe Mines.

GEOLOGY: The property is underlain with Kobau Group rocks which  
are intruded with Nelson granodiorite and diorite.

MINERALIZATION: Assessment report 9402, Diamond Drilling Program on the MAM Mineral Claim Group describes the principal occurrence of mineralization occurring on JJ #1 and JJ #2 in a fissure quartz vein. It strikes northwest and dips 70 to 80 degrees southwest and is traced for 240m. It is reported as carrying pyrite, chalcopyrite and pyrrhotite. It is hosted in sheared granodiorite with remnants of sheared volcanics. Below is a sample of some of the better grades returned from the 1981 drilling program.

oz/ton Au	width (ft)
0.32	4 ft
0.01	5.1 ft
0.006	12 ft
0.010	18 ft
0.010	9 ft
0.008	4 ft
0.008	4 ft
0.006	3 ft
0.010	2 ft
5.06	2 ft
0.010	3 ft
0.030	5 ft
2.52	10 ft
0.010	14 ft

Four sites were visited during the property inspection. They all occur within the MAM claim boundaries. These are different occurrences than those described above. All four sites exposed a mineralized quartz vein, mostly pyrite with minor chalcopyrite. All but zone 2 were hosted in granodiorite. The four sites all appeared to be newly exposed or at least worked very recently. The road was new or newly reconstructed.

Site 1:

A vertical rock cut 10m high, 10m long along strike of vein. <sup>The</sup> Vein <sup>\*</sup> is at 290°/80N and is <sup>10000%</sup> in a shear zone within granodiorite. The vein is vuggy with 1% pyrite and 1% chalcopyrite. It is 10cm to 1m wide.

		Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb	oz/ton
MAM 001	Quartz vein from shear zone, 1% py and cpy	18	157	77	1.3	1410	0.064
MAM 002	As above, from dump	35	132	41	0.6	182	
MAM 003	1cm wide qtz vein, 25% py and aspy	13	31	74	0.7	1000	0.029

Site 2:

It is a short adit (8m) @ 280° along vein. <sup>the</sup> Vein is up to 1.5m <sup>↓</sup> wide, @ 080/40S with a 040/25NW fractures. <sup>↑</sup> It carries <sup>blocks</sup> blocks of <sup>\*</sup> chalcopyrite and pyrite up to 15% each. The pyrite mostly occurs along secondary veinlets. The host is a fine grained grey quartzite.

		Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb	oz/ton
MAM 004	Qtz vein, bull qtz 7% cpy, minor py	310	126	43	10.1	11000	0.332
MAM 005	Quartzite, fine gr. grey, weak foliation 10% crystalline py	158	38	113	1.7	12	
MAM 006	Quartz vein, bull qtz, 10% py, minor cpy	36	24	20	3.1	2800	0.088

Site 3:

A Freshly blasted quartz vein, approximately 1m wide @ 060/60N <sup>occurs</sup> in <sup>\*</sup> shear zone. <sup>The</sup> Host is <sup>a</sup> highly foliated granodiorite. <sup>The</sup> Boundary of <sup>the</sup> vein and host carries pyrite.

		Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
MAM 007	Bull qtz, 1% cpy, 1% py	6	15	4	0.2	2
MAM 008	Bull qtz, 25% py, minor cpy	5	11	7	0.3	113

Site 4:

*one ave* Two adits, one <sup>15</sup> driven into quartz vein but is sealed off. The other is <sup>driven</sup> 10m into granodiorite @ 240°: the vein the first adit is driven into is exposed in a cut which would occur above the adit. \* There is a recently abandon day camp at this site.

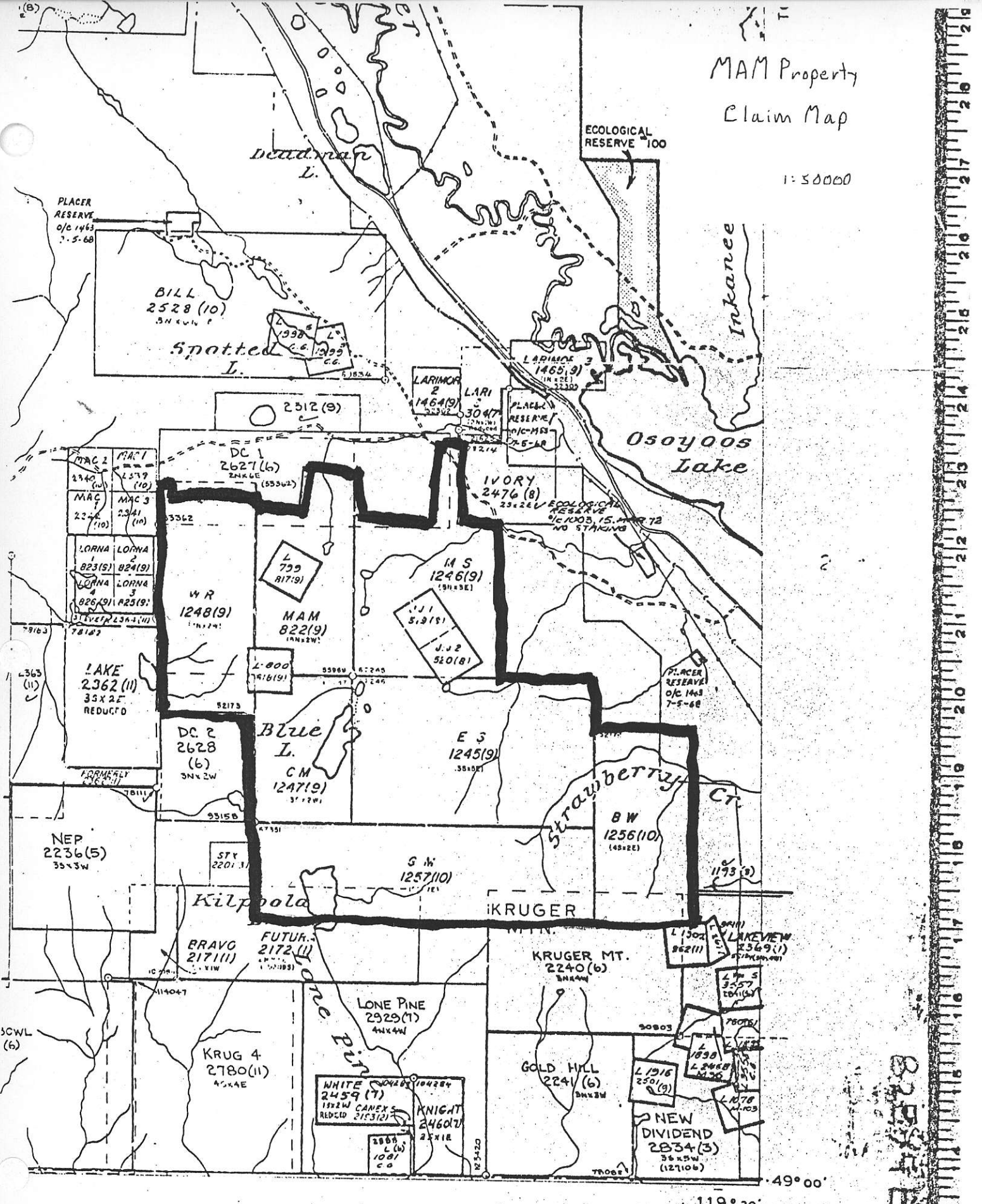
		Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb	oz/ton
MAM 009	Barren qtz float from outside of sealed adit	10	11	16	0.9	980	
MAM 010	Clear to white qtz vein, lots of py @ 340/?, 20cm wide, host is granodiorite	94	16	8	30.5	3800	1.199

This is an interesting property in that there are at least 2 large targets (the JJ claims and the MAM claim) which have returned significant Au values. From the description in the 9402 A.R. on the JJ claims quartz vein versus my observation of the MAM veins, it seems likely that the 2 systems are related if not one and the same. If so the area for potential mineralization is as large as 2 kilometres across discounting the possibility of structural, or other, discontinuities.

The Landholders have undoubtedly obtained a lot more knowledge of the property this past season. A MAM property acquisition or J.V. could be recommended based on their 1989 exploration results. If nothing else any information we could obtain would be helpful in the evaluation and exploration of Richter.

# MAM Property Claim Map

1:50000



EUM RESOURCES

This map is prepared to serve as a guide to the positions of located mineral claims and Placer Mining Leases only. Unsurveyed

82574 E



