

002548

CANADIAN EXPLORATION LIMITED

082F NW 264.

SALMO, B. C.

MacKenzie Tungsten Prospect

Monument Creek, Nelson, B. C.

Grid File 82F 11

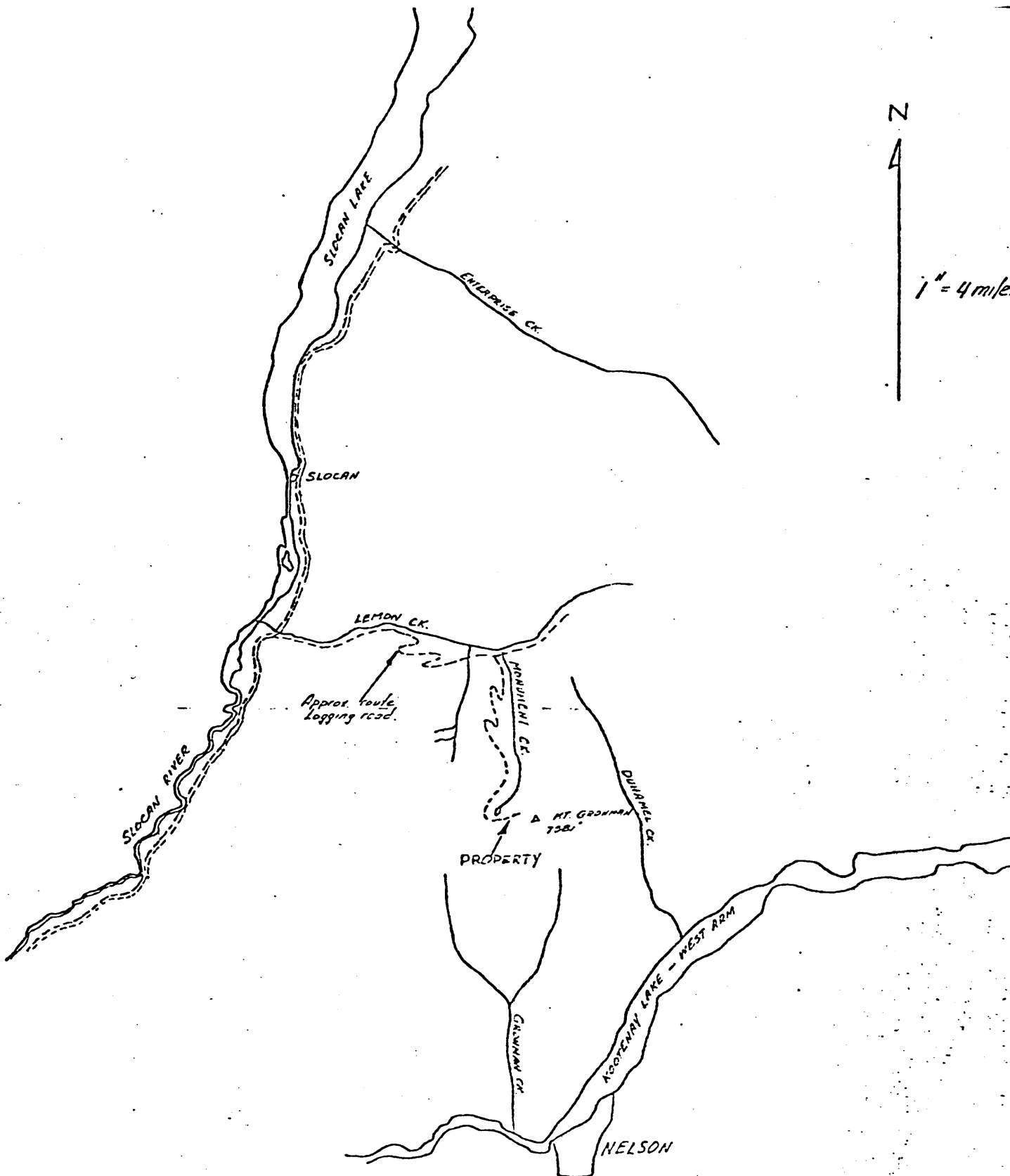
82F/11W General
PROPERTY FILE

O. E. Bradley
Senior Geologist
Jersey Mine.

I
MAR 1967

167

1967



LOCATION PLAN
 MACKENZIE TUNGSTEN PROSPECT 52F-11

July 14, 1927
 SEE

CANADIAN EXPLORATION LIMITED

SALMO, B. C.

TO: C. E. Brown
FROM: O. E. Bradley
SUBJECT: MacKenzie Tungsten Prospect, Monument Creek,
Nelson, B. C. Grid File 82F 11.

RECOMMENDATIONS: That Canex Aerial Exploration maintain contact with Mr. R. M. MacKenzie and assess any new areas of tungsten mineralization located on his property.

EXAMINED: August 21, 1967 by O. E. Bradley (Geology) and J. D. Bishop. (Survey)

LOCATION: The property is located on the north flank of Grohman Mountain (Monument Peak) ten miles north of Nelson, B. C. at an elevation of approximately 6500 feet. Access is by way of a logging road up Lemon Creek (4 miles south of Slocan City).

OWNERSHIP: Several claims and three Crown Grants are currently held in good standing by R. M. MacKenzie of Nelson, B. C. Mr. MacKenzie may be contacted by mail at 1409 Front Street, Nelson, B. C. or by phone at 352 3219. Mr. MacKenzie believes that the claims held by Kabatoff, Winlaw, B. C. (refer to attached memo T. S. Smith, 19 September, 1966) which adjoin MacKenzie property, have lapsed.

HISTORY: Refer to Minister of Mines report 1901, p. 1109 Monument Group, Nelson, B. C.

A 10 foot prospect adit (station 10 on 50 scale plan) was driven into a quartz vein around 1900. This work was presumably done for gold and silver.

GENERAL GEOLOGY: Refer to G.S.C. Memoir 308 by H. W. Little, Nelson, West Half.

A remnant of the Rossland Formation (Lower Jurassic) lies within the Nelson Batholith (Lower Cretaceous) on the north side of Grohman Mountain. The Rossland volcanic rock has a strike of 133° and a dip of 50° to the southwest.

RECENT WORK: Approximately 360 feet of cat road has exposed the quartz vein in several places, northwest of the original adit. Mr. MacKenzie has purchased a Copco "Cobra" drill and has blasted small open cuts along the strike of the vein (refer to 50 scale plan). Approximately 1000 feet northwest of the adit a cut exposes what is presumed to be the same vein.

DETAILED GEOLOGY: A quartz vein averaging 4 feet in thickness, striking 123 to 140 degrees and dipping 30 to 40 degrees southwest was traced for 1000 feet along the north slope of Grohman Mountain. In most of the exposures examined the vein is contained in a greenish volcanic rock with prominent mafic minerals. This rock grades into what may be loosely described as a paragneiss (gneissic texture with stringers of granite looking material, parallel to the banding in the volcanic). The volcanic is underlain and overlain in many places by a buff coloured granite. The volcanics may be a series of roof pendants in the granite. Banding (bedding?) in the volcanic has an attitude of SWOE/30S.W. A small cross vein of quartz was located at station 9C having an attitude of S10E/65W. At station 8A a bed of shaly gouge material overlay the quartz vein. Two narrow lamprophyre dykes were mapped. Both cut the regional structure and had a southerly strike.

A projection of the quartz vein south east from station 3C, based on Brunton measured strikes and dips and transit surveyed coordinates and elevations, ties in quite well with the downdip projection of the vein in the adit at station 10.

MINERALIZATION: The quartz vein contains scheelite as well as silver and minor amounts of gold. The best scheelite is in the area of the old adit. An open cut approximately 400 feet east of the adit exposes what may be the same quartz vein mineralized with large rosettes of molybdenite. These patches of molybdenum are up to 1 inch in diameter, but are few and far between. Samples from this cut were lamped and did not show any fluorescence.

ASSAY RESULTS:

1. Adit originally sampled by T. S. Smith and C. E. Dunn results of Smith's work appended. Tungsten assays in this adit are believed to average 2% WO₃ over 5 feet.
2. Vein sampled by O. E. Bradley July 14, 1967 on preliminary examination of property refer to 100 scale plan, tape and compass survey. These samples averaged 0.04% WO₃ between stations 8 and 9.
3. Vein sampled by R. M. MacKenzie August 8, 1967 at stations 9E and 9B results appended average assay 0.13% WO₃. Composite for gold and silver assayed trace Au, 2.42 oz. Ag.
4. Vein sampled by O. E. Bradley August 21, 1967 results appended and marked on 50 scale plan.

5. As can be seen by the erratic nature of the assays, this vein requires a more detailed sampling procedure.

CONCLUSIONS:

1. Scheelite mineralization occurs in or immediately adjacent to the quartz vein which traverses the property. The mineralized material adjacent to the vein is a darkish highly oxidized and very crumbly rock.
2. The quartz vein is continuous over 1000 feet at least.
3. Sampling to date is insufficient to establish a tungsten grade for the vein.
4. It appears that economic tungsten grade does not continue north westerly beyond station number 9 (at least on surface).
5. Silver values contained in the quartz up to 7 oz. per ton are reported by R. M. MacKenzie.
6. Assuming mineralization of ore grade exists from station 9E to the adit, plus an equal distance beyond (220 feet total) and projecting 150 feet downdip, a reserve of $150 \times 220 \times 8\% = 22,000$ tons may exist. These measurements are maximum at this time.
7. As only one day and one evening were spent on the property by the writer, it may be worthwhile to have a more thorough examination in the immediate area.
8. Stripping southeasterly along the vein by a Cat is probably the cheapest method of further assessment at this time.

Respectfully submitted,

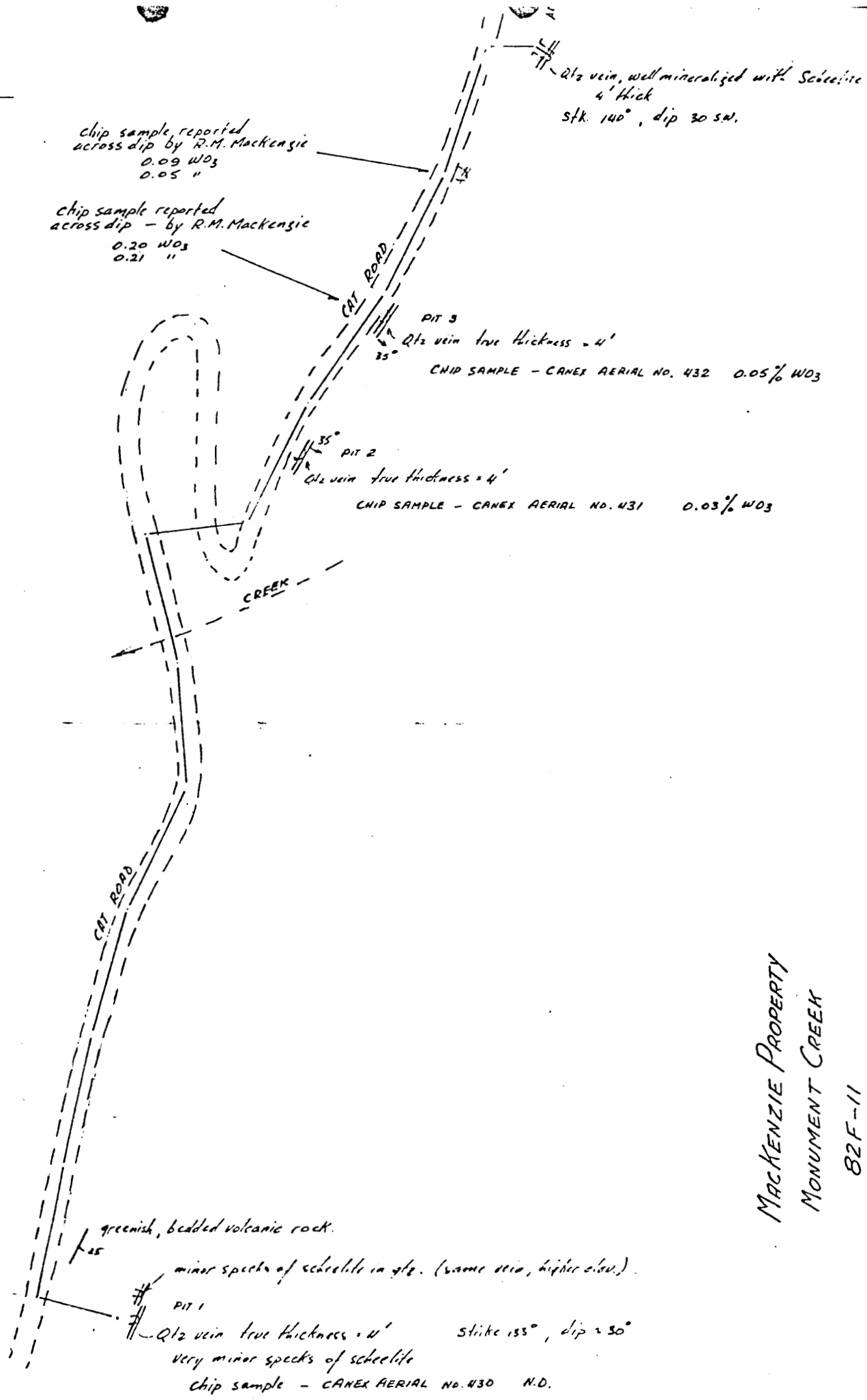
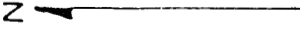


O. E. Bradley P. Eng.
Senior Geologist.

OEB/jm

25 August, 1967.

1" = 100'



Qtz vein, well mineralized with Scheelite
4' thick
Stk. 140°, dip 30 S.W.

chip sample reported
across dip by R.M. Mackenzie
0.09 W03
0.05 "

chip sample reported
across dip - by R.M. Mackenzie
0.20 W03
0.21 "

PIT 3
Qtz vein true thickness = 4'

CHIP SAMPLE - CANEX AERIAL NO. 432 0.05% W03

PIT 2
Qtz vein true thickness = 4'

CHIP SAMPLE - CANEX AERIAL NO. 431 0.03% W03

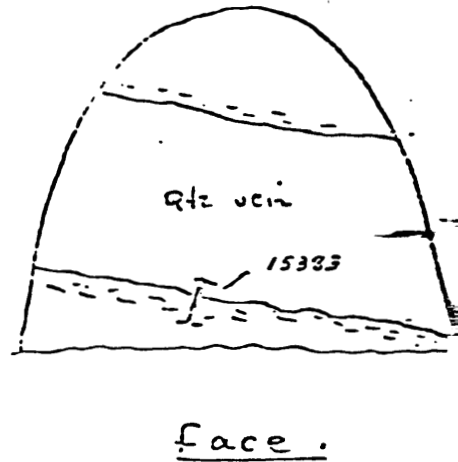
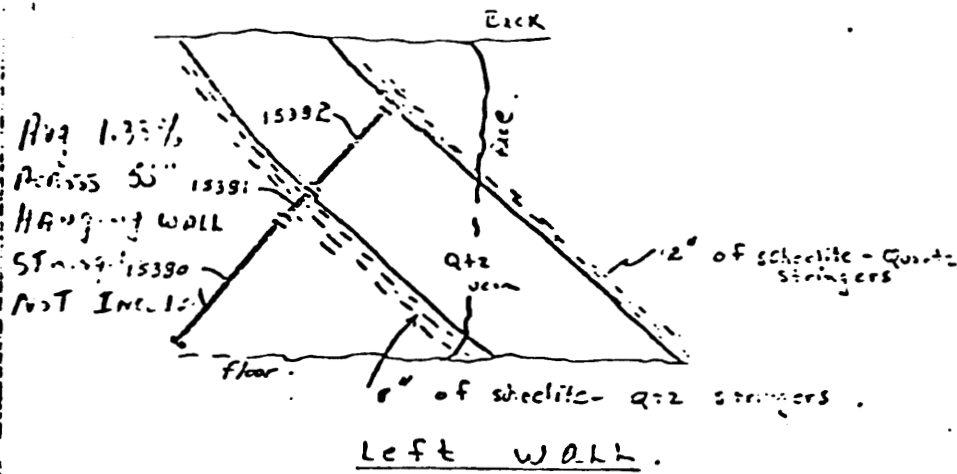
greenish, bedded volcanic rock.

minor specks of scheelite in Qtz. (same vein, higher elev.)

PIT 1
Qtz vein true thickness = 4' Strike 135°, dip = 30°
very minor specks of scheelite
chip sample - CANEX AERIAL NO. 430 N.D.

MACKENZIE PROPERTY
MONUMENT CREEK

82F-11



Sample Nbr.	Description	Results
15280	chip across 25" of schist, perpendicular to footwall of vein, very minor scheelite.	0.10 % WO_3 0.28 oz. Ag.
15251	chip across 8" of scheelite - Qtz stringers on footwall of vein. - highest grade scheelite observed.	<u>3.73</u> % WO_3
15382	Chip across 22" of vein, very minor scheelite observed.	0.15 % WO_3
15383	chip across 11" of scheelite - Qtz stringers on footwall of vein, true thickness of stringer zone estimated to be 7"	<u>6.12</u> % WO_3
15384	Random chip across vein and both walls, very minor scheelite observed.	0.40 % WO_3
15385	chip across 30", includes both walls of vein.	0.11 % WO_3

SAMPLE SITE ①

SITE ②

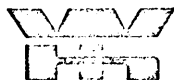
SITE ③

ADVT EXPL.
RESULTS OF VEIN
SAMPLING.

A.H.J.

TO:

Amx Exploration Inc.,
 601 - 535 Thurlow Street
 Vancouver, B.C.
 ATTENTION: Mr. D. Silversides



Certificate of Assay
COAST ELDRIDGE
 PROFESSIONAL SERVICES DIVISION VANCOUVER OFFICE
 WARNOCK HERSEY INTERNATIONAL LIMITED
 125 EAST 4TH AVE. VANCOUVER 10, B.C., CANADA

NOV 21 1968



PHONE: (604) 876-4111
 TELEFAX: 04-50353
 CABLE ADDRESS:
 ELDRICO

FILE NO. a.3-A.4-68-3033

DATE November 20, 1968

Okanagan Kootenay #341

We Hereby Certify that the following are the results of assays made by us upon submitted ORE samples

MARKED	GOLD		SILVER	Total Molybdenum	Copper (Cu)	Tungsten	PER CENT.	PER CENT.	PER CENT.
	OUNCES PER TON	VALUE PER TON	OUNCES PER TON	PER CENT (Mo)	PER CENT.	PER CENT (WO ₃)			
15380 - MacKenzie WO ₃ , Nelson - 25"			0.28		# 62.50	Avg 0.10			f.w.p. vein WO ₃ powder only
15381 - " " " - 8"						1.33% 3.73			High grade stringers
15382 - " " " - 22"						0.15			across vein
15383 - " " " - 11" (7" true width)					# 292.80	6.12			f.w. of vein-high grade stringers
15384 - " " " - Random chip across vein						0.40			
15385 - " " " - 30" across vein						0.11			No Ca WO ₃ visible

Gold calculated at \$ per ounce

Note. Rejects retained one week.
 Pulps retained one month.
 Pulps and rejects may be stored for a maximum of one year by special arrangement.

1/JP Unless it is specifically stated otherwise, gold and silver values reported on these shoots have not been adjusted to compensate for losses and gains inherent in the fire assay process.

H. Hersey

Provincial Assayer



b.

DEPARTMENT OF MINES AND PETROLEUM RESOURCES
VICTORIA

SAMPLE RECEIVED FROM Mr. R.M. MacKenzie,ADDRESS 1409 Front St., Nelson, B.C.Phone No. 352-3219

LABORATORY No.	SUBMITTER'S MARK	LABORATORY REPORT
32804 <i>Class Rock No 3</i>	20832 B	<p>Spectrochemical Analysis: Very small fractions of 1 per cent of copper and lead were found; the other base metals found, and their percentages, were those occurring normally in rocks.</p> <p>Assays: Gold nil Silver trace</p> <p>Radioactivity: No greater than that occurring normally in rocks.</p>
32805 <i>From Dump Trench No 1</i>	20833 B	<p>Spectrochemical Analysis: Zinc and lead, small fractions of 1 per cent of <u>bismuth</u> and cadmium, and very small fractions of 1 per cent of copper and cobalt were found; the other base metals found, and their percentages, were those occurring normally in rocks.</p> <p>Assays: Gold 0.03 oz. per ton Silver 36.6 oz. per ton Zinc 4.25%</p> <p>Radioactivity: No greater than that occurring normally in rocks.</p>

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FOR PROMOTIONAL OR ADVERTISING PURPOSES.

DATE September 23rd 1970

CHIEF ANALYST AND ASSAYER



b.

DEPARTMENT OF MINES AND PETROLEUM RESOURCES
VICTORIA

SAMPLE RECEIVED FROM Mr. R.M. McKenzie,

ADDRESS 1409 Front St., Nelson, B.C.

LABORATORY NO.	SUBMITTER'S MARK	LABORATORY REPORT
28574 <i>AMAX STN 3</i> ✓	20549 B	<p>Spectrochemical Analysis: Small fractions of 1 per cent of lead, zinc and <u>bismuth</u>, and a very small fraction of 1 per cent of <u>copper</u> were found; the other base metals found, and their percentages, were those occurring normally in rocks.</p> <p>Assays: Gold trace Silver 3.6 oz. per ton</p> <p>Radioactivity: No greater than that occurring normally in rocks.</p>
28575 <i>AMAX STN 3</i> ✓	20550 B	<p>Spectrochemical Analysis: Small fractions of 1 per cent of lead and <u>bismuth</u>, and very small fractions of 1 per cent of copper and zinc were found; the other base metals found, and their percentages, were those occurring normally in rocks.</p> <p>Assays: Gold trace Silver 4.8 oz. per ton</p> <p>Radioactivity: No greater than that occurring normally in rocks.</p>
28576 <i>COUNTRY ROCK AT STN 1</i> ✓	25981 B	<p>Spectrochemical Analysis: A very small fraction of 1 per cent of copper was found; the other base metals found, and their percentages, were those occurring normally in rocks.</p> <p>Assays: Gold trace Silver 0.2 oz. per ton</p> <p>Radioactivity: No greater than that occurring normally in rocks.</p>

THIS DOCUMENT, OR ANY PART THEREOF, MAY NOT BE REPRODUCED FOR PROMOTIONAL OR ADVERTISING PURPOSES.

DATE August 19th 1968

S. Metcalfe

CHIEF ANALYST AND ASSAYER.



1966 CENTENARY OF THE UNION OF THE COLONIES OF VANCOUVER ISLAND AND BRITISH COLUMBIA UNDER THE NAME BRITISH COLUMBIA.
1967 CENTENARY OF THE CONFEDERATION OF CANADA.

JOHN O. DOLPHIN

ASSAYER — CHEMIST — METALLURGIST

OSOYOOS, B.C.

TO:

Mr. R. M. MacKenzie
Nelson B.C.

*Vain 50' East
of Grid N2072*

Assay Certificate

I HEREBY CERTIFY THAT THE FOLLOWING ARE THE RESULTS OF THE SUBMITTED SAMPLES

MARKED	GOLD OZS PER TON	SILVER OZS PER TON	% PER TON	% PER TON	% PER TON
Quartz, oxides and galena	tr	19.0			

FILE No. 3814
 DATE Oct., 20th., 66
 CHARGES \$4.00

John O. Dolphin
 JOHN O. DOLPHIN
 PROVINCIAL ASSAYER



DEPARTMENT OF MINES AND PETROLEUM RESOURCES
VICTORIA

SAMPLE RECEIVED FROM Mr. R.M. MacKenzie,

ADDRESS 1409 Front St., Nelson, B.C.

LABORATORY No.	SUBMITTER'S MARK	LABORATORY REPORT
31591 <i>Vain On Road at Pit 3</i>	28376 B	<p>Spectrochemical Analysis: Iron, small fractions of 1 per cent of lead and <u>bismuth</u>, and very small fractions of 1 per cent of copper, nickel, and cobalt were found; the other base metals found, and their percentages, were those occurring normally in rocks.</p> <p>Assays: Gold trace Silver 9.6 oz. per ton</p> <p>Radioactivity: None was detected.</p>

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DATE October 17th 1969

J. Metcalfe

CHIEF ANALYST AND ASSAYER.



DEPARTMENT OF MINES AND PETROLEUM RESOURCES
VICTORIA

SAMPLE RECEIVED FROM Mr. R.M. MacKenzie,

ADDRESS 1409 Front St., Nelson, B.C.

LABORATORY No.	SUBMITTER'S MARK	LABORATORY REPORT
33104 CROSS 5 FT. NEW SIN 70' SOUTH & VEN IN ADIT STN 3	20837 B	<p>Spectrochemical Analysis: A small fraction of 1 per cent of lead, and very small fractions of 1 per cent of copper and <u>bismuth</u> were found; the other base metals found, and their percentages, were those occurring normally in rocks.</p> <p>Assays: Gold trace Silver 5.4 oz. per ton Bismuth 0.04%</p> <p>Radioactivity: No greater than that occurring normally in rocks.</p>
33105 ACROSS 7 FT STN 3	20838 B	<p>Spectrochemical Analysis: A small fraction of 1 per cent of lead, and very small fractions of 1 per cent of copper, zinc, and <u>bismuth</u> were found; the other base metals found, and their percentages, were those occurring normally in rocks.</p> <p>Assays: Gold trace Silver 6.6 oz. per ton Bismuth 0.04%</p> <p>Radioactivity: No greater than that occurring normally in rocks.</p>
33106 GRANITE DIKE 20' ABOVE (33104)	20839 B	<p>Spectrochemical Analysis: The only base metals found, and their percentages, were those occurring normally in rocks.</p> <p>Assays: Gold trace Silver trace</p> <p>Radioactivity: No greater than that occurring normally in rocks.</p>

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FOR PROMOTIONAL OR ADVERTISING PURPOSES.

DATE September 29th 1971

CHIEF ANALYST AND ASSAYER.



DEPARTMENT OF MINES AND PETROLEUM RESOURCES
VICTORIA

SAMPLE RECEIVED FROM Mr. R.M. MacKenzie,

ADDRESS 1409 Front St., Nelson, B.C.

LABORATORY NO.	SUBMITTER'S MARK	LABORATORY REPORT
31811	20664 B	<p>Spectrochemical Analysis: A trace of copper was found; the other base metals found, and their percentages, were those occurring normally in rocks.</p> <p>Assays: Gold trace Silver nil Platinum nil</p> <p>Radioactivity: None was detected.</p>
31812	28377 B	<p>Spectrochemical Analysis: A fraction of 1 per cent of tungsten, very small fractions of 1 per cent of copper and lead, and a trace of bismuth were found; the other base metals found, and their percentages, were those occurring normally in rocks.</p> <p>Assays: Gold trace Silver 1.0 oz. per ton Tungsten 0.16%</p> <p>Radioactivity: No greater than that occurring normally in rocks.</p>
31813	28378 B	<p>Spectrochemical Analysis: Small fractions of 1 per cent of lead and zinc, very small fractions of 1 per cent of cadmium and tungsten, and a trace of bismuth were found; the other base metals found, and their percentages, were those occurring normally in rocks.</p> <p>Assays: Gold trace Silver 3.6 oz. per ton Tungsten 0.06%</p> <p>Radioactivity: None was detected.</p>

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DATE December 2nd 1969

CHIEF ANALYST AND ASSAYER.



DEPARTMENT OF MINES AND PETROLEUM RESOURCES
VICTORIA

SAMPLE RECEIVED FROM Mr. R.M. MacKenzie,

ADDRESS 1409 Front St., Nelson, B.C.

LABORATORY No.	SUBMITTER'S MARK	LABORATORY REPORT
29604 <i>Woodbury CREEK FLOAT</i>	22071 B <i>Woodbury CREEK MET. MEASUREMENT</i>	<p>Spectrochemical Analysis: Lead, zinc, and manganese, small fractions of 1 per cent of copper and <u>tin</u>, and a very small fraction of 1 per cent of cadmium were found; the other base metals found, and their percentages, were those occurring normally in rocks.</p> <p>Assays: Gold trace Silver 2.8 oz. per ton Lead 10.00% Zinc 5.55%</p> <p>Radioactivity: No greater than that occurring normally in rocks.</p>
29605 <i>SITE 2 355 10-2</i>	25988 B	<p>Spectrochemical Analysis: Iron, a fraction of 1 per cent of lead, a small fraction of 1 per cent of <u>bismuth</u>, and very small fractions of 1 per cent of copper, zinc and cobalt were found; the other base metals found, and their percentages, were those occurring normally in rocks.</p> <p>Assays: Gold trace Silver 18.4 oz. per ton Copper 0.06%</p> <p>Radioactivity: None was detected.</p>

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DATE December 10th 1968

L. Metcalfe

CHIEF ANALYST AND ASSAYER.





DEPARTMENT OF MINES AND PETROLEUM RESOURCES
VICTORIA

SAMPLE RECEIVED FROM Mr. R.M. MacKenzie,

ADDRESS 1409 Front St., Nelson, .B.C.

LABORATORY No.	SUBMITTER'S MARK	LABORATORY REPORT
29012 STN 8C STZ VEIN Showing No WOs ✓	25982 B	Spectrochemical Analysis: Small fractions of 1 per cent of lead and <u>bismuth</u> , and a very small fraction of 1 per cent of copper were found; the other base metals found, and their percentages, were those occurring normally in rocks. Assays: Gold trace Silver 8.1 oz. per ton Radioactivity: No greater than that occurring normally in rocks.
29013 STN 8C TRINGER VEIN IN FOOTWALL ✓	25983 B	Spectrochemical Analysis: Small fractions of 1 per cent of lead, <u>bismuth</u> , and <u>tungsten</u> , and very small fractions of 1 per cent of copper, zinc and molybdenum were found; the other base metals found, and their percentages, were those occurring normally in rocks. Assays: Gold trace Silver 6.9 oz. per ton Tungsten 0.10% Radioactivity: No greater than that occurring normally in rocks.
29014 STN 8C FOOTWALL COUNTRY ROCK ✓	25984 B	Spectrochemical Analysis: A very small fraction of 1 per cent of copper was found, but tungsten was not; the other base metals found, and their percentages, were those occurring normally in rocks. Assays: Gold nil Silver trace Radioactivity: No greater than that occurring normally in rocks.

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DATE September 25th 1968

S. Theale

CHIEF ANALYST AND ASSAYER.





DEPARTMENT OF MINES AND PETROLEUM RESOURCES
VICTORIA

SAMPLE RECEIVED FROM Mr. R.M. MacKenzie,

ADDRESS 1409 Front St., Nelson, B.C.

MacKenzie 1%

LABORATORY NO.	SUBMITTER'S MARK	LABORATORY REPORT
<p>31356</p> <p><i>Amix 3 sic 1</i></p>	<p>28371 B</p>	<p>Spectrochemical Analysis: <u>Bismuth</u>, fractions of 1 per cent of lead and tungsten, and a very small fraction of 1 per cent of copper were found; the other base metals found, and their percentages, were those occurring normally in rocks.</p> <p>Assays: Gold 0.02 oz. per ton Silver 14.6 oz. per ton Tungsten 0.56%</p> <p>Radioactivity: None was detected.</p>
<p>31357</p> <p><i>Amix 3 sic 3</i></p>	<p>28372 B</p>	<p>Spectrochemical Analysis: Very small fractions of 1 per cent of copper, lead, and <u>bismuth</u> were found, but tungsten was not; the other base metals found, and their percentages, were those occurring normally in rocks.</p> <p>Assays: Gold trace Silver 1.2 oz. per ton</p> <p>Radioactivity: None was detected.</p>

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DATE September 23rd 1969

S. Metcalfe

CHIEF ANALYST AND ASSAYER.



DEPARTMENT OF MINES AND PETROLEUM RESOURCES
VICTORIA

SAMPLE RECEIVED FROM Mr. R.M. MacKenzie,

ADDRESS 1409 Front St., Nelson, B.C.

LABORATORY NO.	SUBMITTER'S MARK	LABORATORY REPORT
26613 ✓ (10)	20541 B 4' CHANNEL SAMPLE FROM A&T	Tungsten, and a very small fraction of 1 per cent of lead were found. Assays: Gold trace Silver 0.6 oz. per ton Tungsten 1.09% Radioactivity: No greater than that occurring normally in rocks.
26614 ✓ 96	20542 B 4' CHANNEL SAMPLE 1ST P.T WEST OF A&T	Small fractions of 1 per cent of tungsten and lead were found. Assays: Gold 0.01 oz. per ton Silver 3.6 oz. per ton Tungsten 0.26% Radioactivity: No greater than that occurring normally in rocks.
26615 ✓ 96	20543 B 4' CHANNEL 1ST P.T WEST OF A&T	Fractions of 1 per cent of tungsten and lead were found. Assays: Gold trace Silver 0.8 oz. per ton Tungsten 0.81% Radioactivity: No greater than that occurring normally in rocks.

THIS DOCUMENT, OR ANY PART THEREOF, MAY NOT BE REPRODUCED FOR PROMOTIONAL OR ADVERTISING PURPOSES.

DATE September 11th 1967

L. McCall

CHIEF ANALYST AND ASSAYER.





b.

DEPARTMENT OF MINES AND PETROLEUM RESOURCES
VICTORIA

SAMPLE RECEIVED FROM Mr. R.M. MacKenzie,

ADDRESS 1409 Front St., Nelson, B.C.

LABORATORY No.	SUBMITTER'S MARK	LABORATORY REPORT
26261 <i>CLASS VIEW Above P.T. 3</i> <div style="border: 1px solid black; padding: 2px; display: inline-block;">9.C</div> ✓	1	<p>Spectrochemical Analysis: Lead, fractions of 1 per cent of zinc and <u>bismuth</u>, and a very small fraction of 1 per cent of cadmium were found; the other base metals found, and their percentages, were those occurring normally in rocks.</p> <p>Assays: Gold trace Silver 6.6 oz. per ton</p> <p>Radioactivity: No greater than that occurring normally in rocks.</p>
26262 <i>VIEW Above CLASS VIEW</i> <div style="border: 1px solid black; padding: 2px; display: inline-block;">9.D</div> ✓	2	<p>Spectrochemical Analysis: A fraction of 1 per cent of lead, and very small fractions of 1 per cent of zinc and <u>bismuth</u> were found; the other base metals found, and their percentages, were those occurring normally in rocks.</p> <p>Assays: Gold trace Silver 3.0 oz. per ton</p> <p>Radioactivity: No greater than that occurring normally in rocks.</p>

THIS DOCUMENT, OR ANY PART THEREOF, MAY NOT BE REPRODUCED FOR PROMOTIONAL OR ADVERTISING PURPOSES.

DATE July 31st 1967

S. Metcalfe

CHIEF ANALYST AND ASSAYER.



1966 CENTENARY OF THE UNION OF THE COLONIES OF VANCOUVER ISLAND AND BRITISH COLUMBIA UNDER THE NAME BRITISH COLUMBIA.
1967 CENTENARY OF THE CONFEDERATION OF CANADA.



DEPARTMENT OF MINES AND PETROLEUM RESOURCES
VICTORIA

SAMPLE RECEIVED FROM Mr. R.M. MacKenzie,

ADDRESS 1409 Front St., Nelson, B.C.

LABORATORY No.	SUBMITTER'S MARK	LABORATORY REPORT
26616 (9H) ✓	20544 B 4th P.T WEST OF A&T	Fractions of 1 per cent of lead and copper, and very small fractions of 1 per cent of nickel and cobalt were found. Assays: Gold trace Silver 4.0 oz. per ton Nickel 0.02% Cobalt 0.01% Radioactivity: None was detected.
26617 ✓ (9E)	20545 B FOOTWALL of 1st P.T WEST OF A&T	Assays: Gold nil Silver trace Radioactivity: No greater than that occurring normally in rocks.
26618 ✓	20546 B	Referred to the Mineralogical Branch for examination; you will hear from them direct.

THIS DOCUMENT, OR ANY PART THEREOF, MAY NOT BE REPRODUCED FOR PROMOTIONAL OR ADVERTISING PURPOSES.

DATE September 11th 1967

L. Mitchell

CHIEF ANALYST AND ASSAYER.





DEPARTMENT OF MINES AND PETROLEUM RESOURCES
VICTORIA

SAMPLE RECEIVED FROM Mr. R.M. MacKenzie,

ADDRESS 1409 Front St., Nelson, B.C.

LABORATORY NO.	SUBMITTER'S MARK	LABORATORY REPORT
31588 <i>600' East of Adit Sta 10</i>	28373 B	<p>Spectrochemical Analysis: Small fractions of 1 per cent of tungsten and molybdenum, and a very small fraction of 1 per cent of lead were found; the other base metals found, and their percentages, were those occurring normally in rocks.</p> <p>Assays: Gold trace Silver 1.6 oz. per ton Tungsten 0.15% Molybdenum 0.41%</p> <p>Radioactivity: No greater than that occurring normally in rocks.</p> <p style="text-align: right;"><i>17.25</i></p>
31589 <i>30' above Adit Sta 10</i>	28374 B	<p>Spectrochemical Analysis: A small fraction of 1 per cent of lead, and very small fractions of 1 per cent of zinc and <u>bismuth</u> were found; the other base metals found, and their percentages, were those occurring normally in rocks.</p> <p>Assays: Gold trace Silver 9.6 oz. per ton</p> <p style="text-align: right;"><i>15.50</i></p>
31590	28375 B	<p>Referred to the Mineralogical Branch for examination; you will hear from them direct.</p>

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DATE October 17th 1969

S. Metcalfe

CHIEF ANALYST AND ASSAYER.



DEPARTMENT OF MINES AND PETROLEUM RESOURCES
VICTORIA

SAMPLE RECEIVED FROM R. M. MacKenzie

ADDRESS 1409 Front St., Nelson, B. C.

LABORATORY NO.	SUBMITTER'S MARK	LABORATORY REPORT
<p>24796 SMALL VEIN No 2</p>	<p>AU AG #5</p>	<p>Spectrochemical Analysis: A very small fraction of 1% of lead was found; the other base metals found, and their percentages, were those occurring normally in rocks.</p> <p>Assays: Gold 0.02 oz. per ton Silver 1.0 oz. per ton</p> <p>Radioactivity: No greater than that occurring normally in rocks.</p>
<p>24797 No 3 Material Showing</p> <p>(10) ✓</p>	<p>AU AG #6</p>	<p>Spectrochemical Analysis: Iron, a small fraction of 1% of lead, and very small fractions of 1% of copper, nickel, cobalt and <u>bismuth</u> were found; the other base metals found, and their percentages, were those occurring normally in rocks.</p> <p>Assays: Gold 0.01 oz. per ton Silver 6.9 oz. per ton</p> <p>Radioactivity: No greater than that occurring normally in rocks.</p>
<p>24798 ✓</p>	<p>Fluorescent Minerals</p>	<p>Referred to the Mineralogical Branch. They will report to you direct.</p>

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DATE November 9th 1966

S. McIntyre

CHIEF ANALYST AND ASSAYER.





DEPARTMENT OF MINES AND PETROLEUM RESOURCES
VICTORIA

SAMPLE RECEIVED FROM R. M. MacKenzie

ADDRESS 1409 Front St., Nelson, B. C.

LABORATORY No.	SUBMITTER'S MARK	LABORATORY REPORT
<p>24793 ROSS VEIN 200' WEST of Ad.T No. 2 ✓</p>	<p>AU AG WO 3 #2</p>	<p>Spectrochemical Analysis: <u>Zinc</u>, fractions of 1% of lead and cadmium, very small fractions of 1% of copper and <u>bismuth</u>, and <u>a trace of tungsten</u> were found; the other base metals found, and their percentages, were those occurring normally in rocks.</p> <p>Assays: Gold trace Silver 3.0 oz. per ton</p> <p>Radioactivity: No greater than that occurring normally in rocks.</p>
<p>24794 Lillock from near WEST Bdy ✓</p>	<p>AU AG #3</p>	<p>Spectrochemical Analysis: A very small fraction of 1% of copper was found; the other base metals found, and their percentages, were those occurring normally in rocks.</p> <p>Assays: Gold nil Silver trace</p> <p>Radioactivity: No greater than that occurring normally in rocks.</p>
<p>24795 IN ACROSS Sulphides S.T. No 2 ✓</p>	<p>AU AG #4</p>	<p>Spectrochemical Analysis: A fraction of 1% of lead, and a very small fraction of 1% of <u>bismuth</u> were found; the other base metals found, and their percentages, were those occurring normally in rocks.</p> <p>Assays: Gold trace Silver 6.6 oz. per ton</p> <p>Radioactivity: No greater than that occurring normally in rocks.</p>

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DATE November 9th 1966

S. Metcalf

CHIEF ANALYST AND ASSAYER.





DEPARTMENT OF MINES AND PETROLEUM RESOURCES
VICTORIA

SAMPLE RECEIVED FROM Mr. R.M. MacKenzie.

ADDRESS 1409 Front St., Nelson, B.C.

LABORATORY NO.	SUBMITTER'S MARK	LABORATORY REPORT
31133 <i>Grab Sample Monument No 4</i> ✓	22074 B	<p style="text-align: right;">✓</p> <p>Spectrochemical Analysis: Zinc, small fractions of 1 per cent of lead, <u>cadmium</u>, and tungsten, and very small fractions of 1 per cent of copper and <u>bismuth</u> were found; the other base metals found, and their percentages, were those occurring normally in rocks.</p> <p>Assays: Gold trace Silver 11.0 oz. per ton Zinc 2.02% <u> </u> 40.4 <i>lbs</i> Tungsten 0.33% <u> </u> 6.6 <i>lbs</i></p> <p>Radioactivity: No greater than that occurring normally in rocks.</p>
31134 <i>Grab Sample Monument No 4</i> ✓	22075 B	<p>Spectrochemical Analysis: Fractions of 1 per cent of lead and zinc, and very small fractions of 1 per cent of copper, <u>antimony</u>, <u>bismuth</u> and <u>cadmium</u> were found; the other base metals found, and their percentages, were those occurring normally in rocks.</p> <p>Assays: Gold trace Silver 14.0 oz. per ton Zinc 0.837% <u> </u> 16.6 <i>lbs</i> Tungsten 0.037% <u> </u> 0.6 <i>lbs</i></p> <p>Radioactivity: None was detected.</p>

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DATE September 3rd 1969

S. J. ...

CHIEF ANALYST AND ASSAYER.



DEPARTMENT OF MINES AND PETROLEUM RESOURCES
VICTORIA

SAMPLE RECEIVED FROM Mr. R.M. MacKenzie,

ADDRESS 1409 Front St., Nelson, B.C.

LABORATORY NO.	SUBMITTER'S MARK	LABORATORY REPORT
29015 <i>VEIN ABOVE STN 2</i>	25985 B	<p>Spectrochemical Analysis: A small fraction of 1 per cent of lead, and very small fractions of 1 per cent of copper and <u>bismuth</u> were found; the other base metals found, and their percentages, were those occurring normally in rocks.</p> <p>Assays: Gold trace Silver 5.0 oz. per ton</p> <p>Radioactivity: No greater than that occurring normally in rocks.</p>
29016 <i>STN 8C</i>	25986 B	<p>Spectrochemical Analysis: Very small fractions of 1 per cent of lead and tungsten were found; the other base metals found, and their percentages, were those occurring normally in rocks.</p> <p>Assays: Gold trace Silver 0.4 oz. per ton Tungsten 0.03%</p> <p>Radioactivity: None was detected.</p>
29017 <i>AMAX SITE (3)</i>	25987 B	<p>Spectrochemical Analysis: Small fractions of 1 per cent of lead and <u>bismuth</u>, and very small fractions of 1 per cent of copper and cobalt were found; the other base metals found, and their percentages, were those occurring normally in rocks.</p> <p>Assays: Gold trace Silver 4.8 oz. per ton</p> <p>Radioactivity: None was detected.</p>

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DATE September 25th 1968

S. Mitchell

CHIEF ANALYST AND ASSAYER



1966 CENTENARY OF THE UNION OF THE COLONIES OF VANCOUVER ISLAND AND BRITISH COLUMBIA UNDER THE NAME BRITISH COLUMBIA.
1967 CENTENARY OF THE CONFEDERATION OF CANADA.



Department of Energy, Mines and Resources
Ministère de l'Énergie, des Mines et des Ressources

Geological Survey of Canada
Commission géologique du Canada

File Number
N° de rappel

601 Booth Street,
Ottawa, Ontario,
2 November 1966.

Mr. R.M. MacKenzie,
1409 Front Street,
Nelson, B.C.

Dear Mr. MacKenzie:

Just back from the field, your samples and letter have been transferred to me for attention. The samples have been identified as follows:

- No. 1 - Very fine grained trap rock carrying amygdules of calcite and zeolites.
- 2 - Biotite gneiss..feldspar, quartz, biotite.
- 3 - Seems to be a carbonatite; carbonate, ferromagnesian minerals and some quartz. It carries minute grains of pyrite and flakes of white mica.
- 4 - Highly altered talc schist, it carries patches of hydrated iron oxide.
- 5 - (4) Specimens of quartz carrying highly decomposed pyrite, marcasite and a little chalcopyrite, to a black powdery metamict mineral.

No other mineral has been observed and I cannot pin any particular value to these samples.

Yours sincerely,

C.H.R. Gauthier,
Mineralogist.

CHRG/cg

KING JACK MINING CLAIMS—HELD BY R. M. MACKENZIE, 1409 FRONT ST. NELSON, B.C. 1975. THIS GROUP ALSO INCLUDES THE DUPLEX AND SEVERAL OTHER WORKINGS. THIS REPORT FROM THE 1922 M.M. PAGE 203.

King Jack Group.

This group, comprising the *Jack* and *King George* claims on the First North fork of Lemon creek, was acquired by the King Jack Mining Company, incorporated under the laws of the State of Washington, and of which W. F. van Vactor is secretary-treasurer. The outlet to the property is by trail for about 2 miles to the old *Chapleau* mill and thence by road for five miles to the Canadian Pacific Railway tracks at Lemon Creek Siding.

The *King Jack* claim is situated on the north side and near the headwaters of the First North fork. The area is underlain by granite, in which the vein on the *King Jack* strikes in an easterly and westerly direction, dipping at an angle of about 30° to the north. It has been traced by small open-cuts and shallow workings for nearly 2,000 feet. The principal work done consists of an adit run in an easterly direction along the strike of the vein for 242 feet. Here the vein shows a width of about 12 inches of iron-stained quartz carrying specks and small streaks of silver-sulphide minerals. The best values are found where the quartz shows a banded structure and where there is evidence of cross-fracturing.

A small shoot of ore has been stoped to a height of about 50 feet on the dip. At the face of this stope the ore had a tendency to pinch out and did not represent a good mining width, the average width of the vein being 12 inches. A sample knocked down at frequent intervals along the vein over a length of 21 feet assayed as follows: Gold, 0.42 oz.; silver, 35.4 oz. This was taken opposite the stoped ground and probably is representative of the best grade of ore at this point.

It is the intention of the company to continue this drift with the object of intersecting the downward continuation of an ore-shoot said to be developed by a short tunnel and shaft at a point considerably higher up the hill. These workings being in a caved condition could not be examined.

Other showings which are possibly on the same vein may be seen at the *Duplex* claim belonging to R. Cooper, of Slocan City. Here the vein shows a width of about 2 feet of iron-stained quartz. It has been drifted on for about 168 feet. A composite sample from three separate channel cuts across a width of 2 feet at the end of this drift ran: Gold, 0.06 oz.; silver, 3.7 oz. Several other samples taken along this drift gave similar values. The vein is persistent in strike and well defined and would appear to justify more development, as better values might come in at any time.

A sample of crushed quartz taken from a 20-foot tunnel driven into the bank of the creek some distance below the *King Jack* workings gave the following values: Gold, 1.66 oz.; silver, 18.3 oz. to the ton.

This tunnel is in badly broken ground and gains little depth. An interesting feature was the appearance of a basic dyke in the face. More prospecting is necessary at this point before an opinion can be formed as to the possibilities.

The summer's work consisted mostly of packing in supplies over the summit from Springer creek and building a cabin in preparation for the winter. Time was also spent on road and trail repairs to the Lemon Creek route. According to latest reports they are now operating a 2-stamp mill, which was installed during the latter part of the year. About nine men were employed.

The operations of this company will be observed with interest, for if successful they will have an important bearing on near-by claims and will help to stimulate mining in the Lemon Creek area.

①
②

RETIN = ON LOCATION

- ① VEIN OUTCROPS ON ROAD 500' WEST OF ADIT AND SHOULD BE CLOSE TO THIS ORE CHUTE. SURFACE WORK SHOULD DEVELOPE
- ② COULD BE 1 OF 3 LOCATIONS: COULD BE DIRECTLY ABOVE OR ONE OF THE WKGS IN DRAW 600 FT EAST OF ADIT.

Joan (Duplex) (173)

References: Minister of Mines, B.C., Ann. Repts.: 1901, p. 1028; 1902, p. 151; 1904, p. 168; 1922, p. 204; 1947, p. 173.

The Joan claim, formerly known as the Duplex, lies about half a mile north-east of the junction of Chapleau Creek and the third tributary east of Cameronian Creek. It adjoins the Fourth of July No. 6 and Teuro Crown-granted claims on the south. In 1950 ownership was held by W. Parker of New Westminster, B.C., by virtue of assessment.

The Duplex claim, staked prior to 1901, was worked under lease in that year and in 1902. Six tons of ore was shipped, containing 520 ounces silver and 7 ounces gold. The value of this ore was much greater than that estimated from samples collected by the resident mining engineer in 1922. These assayed 0.06 ounce gold and 3.7 ounces silver a ton.

The property appears to have been idle until 1946, when W. Parker and H. Parker mined 4 tons of ore from the Joan claim, as it was then named. This ore, shipped in 1947, yielded 121 ounces silver and 1 ounce gold.

The property was examined in 1950 by A. B. Irwin of the Geological Survey.

The workings consist of two adits, the lower by aneroid barometer being at an elevation of about 5,750 feet and the upper some 44 feet higher. About 50 feet from the portal of the lower tunnel a raise has been driven up the vein to the surface (see Figure 15).

The property is underlain by porphyritic Nelson granite that is sheared and fractured near the vein. The vein is encountered in the lower tunnel about 25 feet from the portal where it enters the right wall. From this point it is followed in the drift for a distance of about 140 feet to a narrow fault near the face. Along the drift the vein is offset by three small faults with slight left-hand displacements. These strike roughly north and dip 70° to 80°W. The vein strikes N40° to 50°W and dips 30° to 40°NE. It is 1 foot to 2 feet wide on both levels.

The vein matter is quartz that in many places shows coarse crystal faces; no carbonates were observed. Narrow streaks and disseminations of galena occur in the vein together with a little pyrite and argentite.

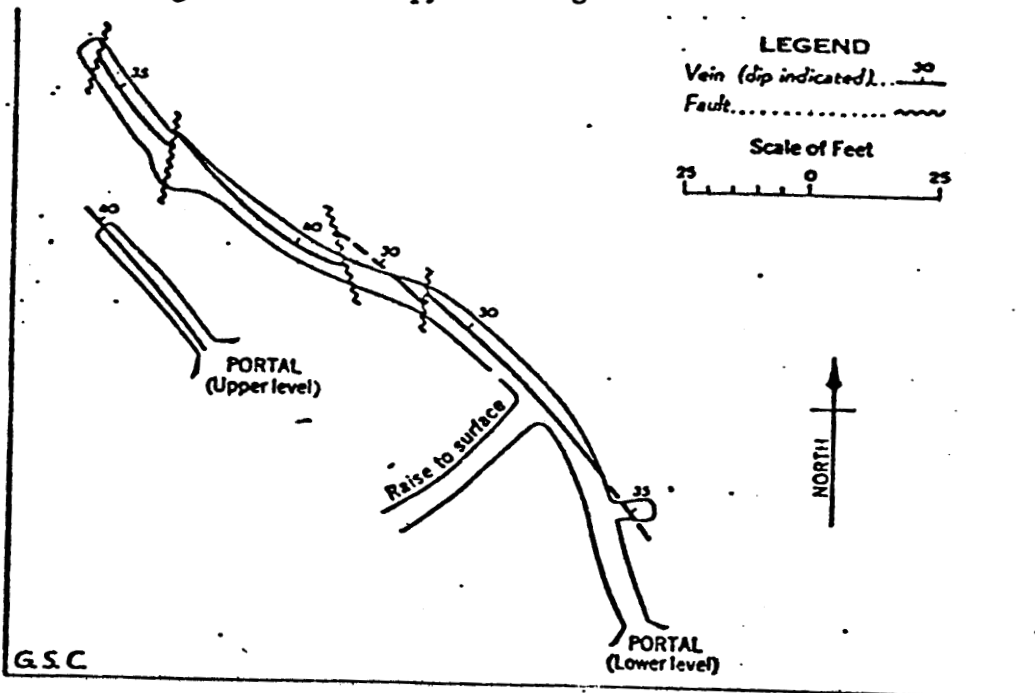


Figure 15. Plan of workings on Joan (Duplex) property (geology by A. B. Irwin, 1950).