GEOCHEMICAL REPORT

on the

WOLF 1-10, WOLF 11-20 & KID 1-4 MINERAL CLAIMS

Located 100 miles SSE of Watson Lake, Yukon Territory - 58°, 128° NE, Liard Mining Division, B.C.

Ъy

W.J. MacKenzie (P. Eng. Mining) El Paso Mining and Milling Company September 5, 1970

Department of Mines and Petroleum Resources ASSESSMENT REPORT

NO. 2643 MAP

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2 Illustrations: Drawing No. 104 19-B10 - Map Pocket

SUMMARY

In the period July 12th to August 10th, 1970, a geochemical survey was conducted over the Wolf-Kid Claim Group, held by El Paso Mining and Milling Company of Vancouver, B.C.

The claims are located in the Cassiar Mountain Range south of the Turnagain River and west of the Cassiar River and about 100 miles S.S.E. of Watson Lake, Yukon Territory.

The claims are underlain by a sequence of Upper Proterozoic sediments which are in contact with quartz monzonite of the Cassiar batholith to the east and which are intruded by sills from that quartz monzonite.

Ref. GSC Map 29-1962, Cry Lake, British Columbia Sheet 1041.

An extensive system of quartz veining, exposed in one of the creek valleys on the claims cuts all rock types observed in the area. Scheelite mineralization is visible in some of the quartz veins, along the contact boundaries of some of the veins and as replacement in sections of the schist and quartzite beds.

Detailed geological mapping of rock exposure on the claims area preceded the geochemical survey and a program of pitting in overburden was carried out during the surveying period. The purpose of the work was to determine the areal extent of scheelite mineralization on the claims.

The soil sampling indicated one scheelite anomaly of significant interest and three of lesser interest.

INTRODUCTION

The Wolf-Kid claims are located in the Liard Mining Division, immediately south of the Turnagain River and approximately 5 miles west of the Cassiar River and take their name from a northerly flowing creek given the name of Wolf. The elevation on the claim area varies from 3000' at the Turnagain River to 5500' at the southern boundary. The claims cross a headwater tributary of the S.E. branch of Wolf Creek, which has been named Show Creek. The lower part of the claims is well timbered and the upper part is covered with scrub spruce, buck-brush and a variety of moss and grass. No roads or trails exist in the area. Access is by plane and helicopter.

The Wolf claims were staked in 1968 as a result of a stream panning program in the area which, with subsequent U.V. night-lamping, showed encouraging scheelite in float in the S.E. branch of Wolf Creek and in the erosion cut-banks of its tributary, Show Creek.

During the 1969 extensive trenching and close prospecting on the south side of Show Creek indicated wide-spread but erratic mineralization in the steep bank of the creek and extending under the vegetation covering the ridge between Show Creek and the S.E. branch of Wolf Creek.

The trenching and prospecting also indicated that the rock between the two creeks has been extensively fractured due to rather intense folding and that a synclinal structure lies, in part, beneath the ridge between the creeks. In addition the work disclosed a much greater extent of quartz veining than hitherto exposed. As scheelite had been observed in rock fractures and in and along quartz veins, particularly the stringer size, six Kid claims were staked adjoining the Wolf claims to the West.

FIELD WORK

The field work commenced on July 12th and was completed on August 10th, 1970, and involved varying working times of seven employees of El Paso Mining and Milling Company.

A baseline, using Brunton compass, clinometer and chain, was established along the crest of the ridge between the S.E. branch of Wolf Creek and Show Creek on a bearing of N.30⁰W. and starting from a point approximately 200' southerly of claim post for Wolf 1 and 2 claims and given the co-ordinates of 0'N - 2000'E. At point 1400'N. - 1000'E. the baseline was offset 200' easterly to be located in a wide straight section of Show Creek Valley and extended to 2800'N. Stations at 100' spacing were established along the base and transverse lines on a bearing of N.53° E. and were run east and west from each station, being designated LON at the south end of the baseline to L2800N at the north end. (Due to a field error, when offsetting the baseline, line L 1500 N was omitted). Sampling stations at 100' intervals were marked along the transverse lines.

A soil sample was taken at each station using a long bladed mattock. Samples were taken at a depth of 6 inches from the "B" horizon where possible* and placed in standard soil envelopes marked with the relative location co-ordinates.

^{*}Though vegetation growth over the survey area was of a healthy standard with strong and deep root systems, the deposition of true soil was most erratic. In many sections the "B" and "C" soil horizons were non-existent, necessitating samples being taken of fine material from the underlying rubble with unavoidable inclusion of organic material.

440 samples were obtained and analyzed for tungsten by Chemex Labs Ltd., 202 Brooksbank Avenue, North Vancouver, B.C.

The Tungsten analyses were plotted on map number 104 19-B10 at a scale of 1" = 200. A copy of the map is enclosed in the map envelope at the back of this report.

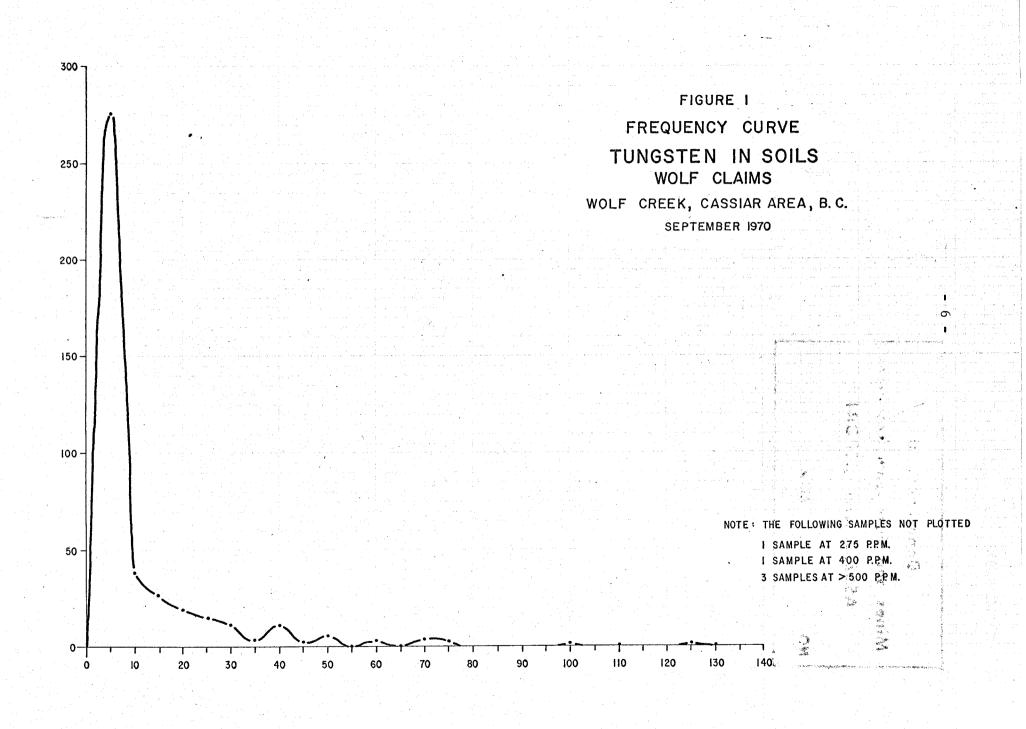
Simultaneously with the soil sampling operation a number of pits were excavated in sections of the survey area for the purpose of determining the depth of overburden, the areal extent of rock fracturing due to folding and the distribution of quartz veins. The pits were excavated by making holes with a heavy steel bar, blasting the holes and shovelling out the loose material. Some pits reached a depth of 5' and all exceeded 3' in depth with a horizontal area in excess of 9 sq. ft. The pits locations are shown on map number 104 19-B10 by means of an asterisk(*).

A total of 33 pits were excavated, 28 of which were within the survey area and 5 to the south of the area.

GEOCHEMICAL RESULTS

The erratic range and distribution of tungsten values, as plotted on map number 104 19-BlO, do not permit ready designation of anomolies. The numerous and widely spread number of<5 P.P.M. analyses, ie: 263 of 0 value out of a total of 440 samples taken, if obtained from uniform quality of soil, would give a very low tungsten background factor for the area and at the same time indicate extremely erratic scheelite mineralization. However, in the course of sampling and test-pitting, a great variation of soil quality was noted and it is recognized that the better tungsten values are located in areas of good soil cover. It is also noted that some areas giving 0 or low values are in the vicinities of scheelite in place as determined by trenching work in 1969 and in these areas the soil consists of loose humus cover on greatly fractured rock, better described as rubble in place.

The arithmetical mean of all analyses is 15 P.P.M. From the frequency curve (Figure 1) the background value is about 20 P.P.M. tungsten. The "possibly anomolous" range of values is taken at 40 to 80 P.P.M. The "probably anomolous" range of values is taken at 80 to 160 P.P.M. The "definitely anomolous" range of value is taken as those above 160 P.P.M. On the geochemical survey map, number 104 19-B10 in the rear pocket of this report, the areas of "possibly anomolous" values in the soil have been shown in yellow, "probably anomolous" in orange and "definitely anomolous" in red.



CONCLUSION

The geochemical survey indicates one significant anomaly and three small possible anomalies. They, together with the erratic distribution of other small groups of values above the background mean for the area, suggest a more extensive pattern of quartz veining than is exposed at present. To date, no economic concentration of scheelite has been delineated on the Wolf claims. The discovery of an area with more closely spaced quartz veins could lead to a tungsten orebody.

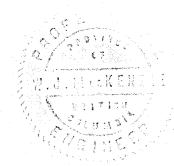
The highly fractured rock in the ridge between the creeks rules out diamond drilling as a further exploration procedure due to assumed high cost and slow progress. Conventional trenching or winzing with rock drills are ruled out for the same reason. A rapid and more informative method for any further exploratory work would be a combination of percussion drilling and bull-dozer trenching.

Vancouver, B.C.

W.J. MacKenzie (P. Eng. Mining) El Paso Mining and Milling Company

Markengie

September 11, 1970.



APPENDIX A

SOIL ANALYSES



CANADA

CHEMEX LABS LTD.

TELEPHONE: 985-0648

• CHEMISTS

· GEOCHEMISTS C WARLYSTY (

CENTIFICATE NO.

DATE ANALYSED

10796

TO:

CERTIFICATE OF ANALYSIS 1970
El Paso Mining and Milling Company,

INVOICE NO.

3722

#500 - 885 Dunsmuir St.,

El Paso Mining & Milling Contre Received

August 10/70

Vancouver, B. C.

cc: Mr. W. J. MacKenzie

August 24/70

ATTN: Mr. G. Noe.	l
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SAMPLE NO.:	PPM	
	Tungsten	
LON 200E 300	0	
	0	
400	0	
500	0	
600	0	
700	0	
800	0	
900	0	
1000	0	
1100	0	
1200	0	
1300	15	
1400	0	
1500	0	
1600	0	
1700	0	
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1900	0	
2000	0	
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Certified by S.A. Stodlars

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CANADA

CHEMEX LABS LTD.

TELEPHONE: 985-0648

INVOICE NO.

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• GEOCHEM

CERTIFICATE NO.

10797

TO: El Paso Mining and Milling Company,

#500 - 885 Dunsmuir St., Vancouver, B. C.

El Paso Mining & Milling Conte RECEIVED

3722 August 10/70

DATE ANALYSED

August 24/70

ATTN: Mr. G. Noel

cc: Mr. W. J. MacKenzie

CERTIFICATE OF ANALYSI'S 1970

SAMPLE	NO.:	PPM	
		Tungsten	
L100N	1900E		
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	2100		
	2200		
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L200N	200E		
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	2100	20	
T 2001	2100	0 10	
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Certified by J. A. Stollars

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TO:

212 BROOKSBANK AVE. NORTH VANCOUVER, B.C.

CANADA

TELEPHONE: 985-0648

• CHEMISTS

#500 - 885 Dunsmuir St.,

Vancouver- B. C.

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CERTIFICATE OF ANALYSIS 1970

CERTIFICATE NO.

10798

El Paso Mining and Milling Company

INVOICE NO.

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El Paso Mining & Milling CO. TE RECEIVED

August 10/70

DATE ANALYSED

August 24/70

	Mr.	G.	Noel		cc: Mr	. W. J	. MacKenzie
ATTN:						1.0	

SAMPLE	NO	PPM	cc. III. W. J. Macketizie
		Tungst	en
L300N	1300E	0	
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	2100	10	
	2200	0	
	2300	0	
L300N	2400E	15	
L400N	200E	10	
	300	10	
	400	0	
	500	0	
	600	50	
	700	20	
	800	45	
	900	20	
	1000	0	
	1100	0	
	1200	0	
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TELEPHONE: 985-0648

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SAYERS CERTIFICATE NO.

10799

CERTIFICATE OF ANALYSIS 1970 El Paso Mining and Milling Company, TO: #500 - 885 Dunsmuir St.,

Vancouver, B. C.

INVOICE NO.

3722

El Paso Mining & Milling Co. TE RECEIVED August 10/70

ATTN: Mr. G. Noel

cc: Mr. W. J. MacKenzie

DATE ANALYSED August 24/70

SAMPLE	NO	PPM
		Tungsten
L500N	800E	25
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TELEPHONE: 985-0648

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RTIFICATE NO.

DATE ANALYSED

INVOICE NO.

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El Paso Mining and Milling Company

#500 - 885 Dunsmuir St ,

Vancouver. B. C.

3722

ATE RECEIVED El Paso Mining & Milling Co.

August 10/70

cc: Mr. W. J. MacKenzie

August 24/70

ATTN: Mr. G. Noe

SAMPLE 1	NO.:	PPM Tungsten	
L700N	200E	0	
L/OOM	300	0	
	400	0	
	500		
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	700	15	
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	1100	0	
	1200	15	
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	1600	10	
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212 BROOKSBANK AVE. NORTH VANCOUVER, B.C. CANADA

TELEPHONE: 985-0648

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10801

TO: El Paso Mining and Milling Company

#500 - 885 Dunsmuir St.,

Vancouver, B. C.

INVOICE NO.

3722

DATE RECEIVED El Paso Mining & Milling Contra analysed

AUG 24 1970

August 10/70

ATTN:	Mr. G. Noe	PPM	cc: Mr. W. J. MacKenzie August 2
SAMPL	E NO.:	the state of the s	
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	1200	30	
	1300	20	
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212 BROOKSBANK AVE. NORTH VANCOUVER, B.C. CANADA

TELEPHONE: 985-0648

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El Paso Mining and Milling Company,

AUG 2 4 1970

INVOICE NO.

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#500 - 885 Dunsmuir St.,

Vancouver, B. C.

DATE RECEIVED El Paso Mining & Milling Coate analysed

August 10/70

August 24/70

ATTN.

ATTN:	Mr. G. Noe	1	cc: Mr. W. J.	MacKenzie	or a	
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SAMPLE	NO.:	Tungsten				
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	1700	40				
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TELEPHONE: 985-0648

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CERTIFICATE NO.

11011

TO:

El Paso Mining & Milling Company,

CHEMEX LABS

INVOICE NO.

3820

#500 - 885 Dunsmuir St.,

El Pago Mining & Milling Co-DATE RECEIVED

August 15/70

Vancouver, B. C.

WATSON LAKE"

DATE ANALYSED

August 28/70

ATTN:

Mr. G. A. Noel

Mr. W. J. MacKenzie

SAMPLE NO .:

PPM

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_	/		1900	15	
			2000	25	
	1		2100	10	
		L1100N	2200E	10	

Certified by 3330



TO:

CHEMEX LABS LTD.

212 BROOKSBANK AVE. NORTH VANCOUVER, B.C.

CANADA

TELEPHONE: 985-0648

ASSAYERS

CERTIFICATE OF AMALYSIS 970

CERTIFICATE NO. 11012

INVOICE NO.

El Paso Mining & Milling Company #500 - 885 Dunsmuir St.,

DATE RECEIVED August 15/70

DATE ANALYSED August 28/70

Vancouver,	В.	С.		''W <i>E</i>	ATSON	LAKE"

SAMPLE NO	o.:	PPM									
L1100N	2300E	Tungsten 15		<u> </u>		 					
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CANADA

TELEPHONE: 985-0648

. CHEMISTS

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CERTIFICATE OF ANALYSIS 1970

CERTIFICATE NO. 11013 & 11014

TO:

El Paso Mining & Milling Company

INVOICE NO.

3820

#500 - 885 Dunsmuir St., Vancouver, B. C.

"WATSON LAKE"

DATE RECEIVED

August 15/70

ATTN:

Mr. G. A. Noel

cc: Mr. W. J. MacKenzie

DATE ANALYSED August 28/70

	141. 0.	A. Noel	cc: Mr. W. J. MacKenzie	
SAMPLE N	0.:	PPM		
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CHEMEX LABS

TELEPHONE: 985-0648

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CENTIFICATE NO.

INVOICE NO.

10803

El Paso Mining and Milling Company, TO:

#500 - 885 Dunsmuir St.,

Vancouver, B. C.

3722

El Paso Mining & Milling Charte Received

August 10/70

DATE ANALYSED

August 24/70

ATTN: Mr. G. Noel

cc: Mr. W. J. MacKenzie

	. G. Noe		cc: Mr. W. J. MacKenzie
SAMPLE 1	NO.:	PPM	
		Tungsten	
L1400N		0	
	1100	· 0	
	1200	0	
	1300	25	
L1400N		10	
L1900N	200E	25	
	300	125	
	400	0	
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	600	0	
	700	0	
	800	0	
L1900N		0	
L2000N		0	
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Certified by Al Stabland



CANADA

CHEMEX LABS I

TELEPHONE: 985-0648

• CHEMISTS

· GEOCHEMIND E CLEVEN

ASAYERS

CERTIFICATE OF ANALYSIS 1970

CENTIFICATE NO.

DATE ANALYSED

INVOICE NO.

10804

TO:

El Paso Mining and Milling Company,

#500 - 885 Dunsmuir St.,

3722

Vancouver, B. C.

El Paso Mining & Milling (DATE RECEIVED

August 10/70

ATTN:

Mr. G. Noel

cc: Mr. W. J. MacKenzie

August 24/70

PPM		MIL. G. N	UEI					
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Certified by Al. Trollas

APPENDIX B

STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

The field work for this report was done under the supervision of W.J. MacKenzie, Project Supervisor, Cassiar Area, El Paso Mining & Milling Company.

W.J. MacKenzie - Professional Engineer (Mining) 1955

1919 - 1923 - Three years studying Civil Engineering, University of Saskatchewan.

1924 - 1945 - Twenty years in all phases of mine production operations - McIntyre Porcupine Gold Mines,

International Nickel Company, Roan Antelope Copper

Mines (seven years as manager of Roan Antelope).

1946 - 1970 - Twnety-three years in mineral exploration - ten years
self-employed - thirteen years including periods with
Nahanni 60 Syndicate, Redstone Mines, Mineral
Development Co., Guggenheim Exploration, RipVan Mining
and El Paso Mining and Milling Company, mainly as
project supervisor for aforementioned companies.

Present - Project Supervisor under G.A. Noel for El Paso Mining and Milling Company.

APPENDIX C

STATEMENT OF COSTS

STATEMENT OF COSTS

<u>Wages</u> - 1970		
R. Bullis	3 days July 12, 13 & 17 @ \$ 850/mo. \$	85.00
J. Moret	3 days July 12, 13 & 17 @ 525/mo.	52.50
R. Wellwood	15 days July 27-Aug. 10 @ 575/mo.	287.50
J. Noel	15 days July 27-Aug. 10 @ 450/mo.	225.00
A. Redenbach	15 days July 27-Aug. 10 @ 700/mo.	350.00
W. J. MacKenzie	e 4 days between July 27	
	-Aug 10 @ 1200/mo.	160.00
		\$1160.00

Total Wages	\$1160.00
Camp Cost at \$7.00/day/man	385.00
Supplies	200.00
Geochemical Analyses	
440 soils at \$2 .0 0	880.00
Helicopter Servicing	
8.05 hrs. at \$167.50	1354.00
Report Preparation	100.00
	\$4079.00



GEOCHEMICAL REPORT

WOLF 1 - 10, 11 - 20 AND KID 1 - 4

September 5, 1970

Method of Analyzing - Soil Samples

Chemex Labs Ltd., used the following procedure in analyzing the soil samples from the Wolf claims:

- (1) Geochemical samples are air dried at 150° F.
- (2) Samples are sieved to -80 mesh in nylon and stainless steel sieves.
- (3) 0.5 gm of dry -80 mesh sample is weighed into a pyrex test tube.
- (4) 1.5 gm of Na_2CO_3 . KNO_3 . NaCl flux is added to T.T.
- (5) Sample and flux are mixed thoroughly and fused at uniform heat.
- (6) Tubes are cooled and 10 mls of distilled water is added to leach tungsten carbonate from flux.
- (7) The tungsten is complexed using SnCl₂ KSCN.
- (8) The tungsten complex is extracted into 1:9 Tri-N-Butylphosphate.
 - Carbon Tetrachloride solvent and colour is compared to standard.



