

5820

KENNCO EXPLORATIONS, (WESTERN) LIMITED

REPORT ON ROCK GEOCHEMICAL SURVEY

HAR NO. 1 CLAIM GROUP

Toodoggone River Area,
Omineca M.D., British Columbia

Located 64 km northwest of Thutade Lake, B.C.
[57°31'22"N, 127°12'08"W]

94E/11E

Work performed during the period
August 14 - August 17, 1975

By

V. Ryback-Hardy, P.Eng.

December 15, 1975

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. 5820 MAP

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KENNCO EXPLORATIONS (WESTERN) LIMITED			
HAR CLAIMS LOCATION MAP TOMINECA MINING DIVISION			
DATA BY:	V. Hardy	N.T.S. 94E 6	P.L. NO.: 1.
DRAWN BY:	DATE: 12-75	SCALE:	1: 250,000
TRACED BY:	DATE:		
REVISIONS:		FILE NO.:	

REPORT ON ROCK GEOCHEMICAL SURVEY

HAR NO. 1 CLAIM GROUP

INTRODUCTION

The claims discussed in this report are situated about 64 kilometers northwest of Thutade Lake, British Columbia. The rock sampling on these claims was conducted by Messrs. Gordon Davies and Donald R. MacKay, under the supervision of V. Ryback-Hardy, during the period of August 14-17, 1975.

Planning, interpretation and writing of the report for the sampling program was conducted by V. Ryback-Hardy, B.A.Sc., P.Eng. Sampling personnel are listed under 'Statement of Qualifications'.

Kennco Explorations, (Western) Limited paid the total costs incurred by the rock sampling survey discussed in this report. The cost distribution is given on a copy of the Affidavit on Application to Record work which is included in this report.

<u>Claim Name</u>	<u>Record No.</u>	<u>Dated Recorded</u>	<u>Present Expiry Year</u>
HAR No. 2	122646	April 12, 1973	1979
HAR No. 3	122647	April 12, 1973	1979
HAR No. 5	122649	April 12, 1973	1978

LOCATION AND ACCESS

The claims are located approximately 64 km north-northeast of Thutade Lake. The nearest supply point is Smithers, B.C., 370 km to the south.

The claims (Har 2, 3 & 5) are located to the south of the headwaters of a westerly flowing tributary of Hiamadam Creek, about three kilometers southwest of Breccia Peak. The coordinates of the claims are Lat. 57°31'22"N, Long. 127°12'08"W.

Access is by float plane to Moosehorn Lake, 6.4 km north of the claims, then by helicopter.

ROCK GEOCHEMICAL FIELD WORK

Geology

The claims area is underlain by a north-trending belt of intermediate to basic volcanics of the Upper Triassic Takla Group. Locally the rocks are relatively unaltered, undeformed, thickly bedded, massive andesites and feldspar porphyry.

Metal values occur in a westerly striking vein apparently conformable to the enclosing feldspar porphyry. The vein strikes west-northwest and dips 20° to 30° to the south. Mineralization consists of pyrite, chalcopyrite, malachite, coarsely crystalline and fine-grained galena, and fine-grained black sphalerite. The vein material consists primarily of white to pink coarsely crystalline calcite and up to 10% coarsely crystalline barite. Usually, accessory quartz seams parallel the vein walls.

The vein pinches and swells along strike and varies from a well defined vein with sharp boundaries to a complex of irregular calcite and quartz veinlets in weakly chloritized and partly silicified andesite. The vein occasionally contains inclusions of weakly chloritized country rock. The vein has been cut by several faults, and apparent vertical offsets varying from 6 to 12 meters can be seen. Numerous joints with offsets of 0.3 to 0.6 meters were also reported.

All rock samples were collected along the quartz-carbonate seam or stringer zone.

Sample Site Control and Collection

The rock samples were collected along the westerly striking vein at varying intervals as indicated by the sampling plan. The sampling commenced at the western extremity of the vein exposure where the vein then becomes obscured by talus debris. The rock samples consist of carbonate and quartz broken from the exposed face of the vein with a rock hammer. Each sample consisted of a number of rock chips taken at equal intervals across the width of the vein. The chips were collected in a double thickness polyethylene bag, tagged, and shipped to Kennco's own laboratory.

The rock samples were analysed at the Kennco laboratory, 1405 Pemberton Avenue, North Vancouver, B.C. under the supervision of H.R. Goddard, Laboratory Manager. The rocks were crushed, pulverized, and sieved. A -100 mesh sample was weighed and digested in aqua regia (HNO_3 and HCl). The sample was analysed by atomic absorption (Techtron AA5 Atomic Absorption Spectrophotometer) to determine the content of Ag, Zn, Pb, and Cu (expressed as percent). To determine the Au content (expressed in ounces per ton), the digested sample is filtered, and the gold removed by solvent-solvent extraction (methyl-isobutyl-ketone). The filtrant is then aspirated in the Techtron AA5.

INTERPRETATION

The purpose of the sampling program was to test the metal content of the quartz seam. The set of samples indicate that significant base and precious metal values are found along the western 185 meters. Five of the eight samples collected by Kennco were along this part of the vein and assayed as follows:

<u>Sample</u> <u>Width</u>	<u>% Cu</u>	<u>% Zn</u>	<u>% Pb</u>	<u>Ag oz/</u> <u>ton</u>	<u>Ag gm/</u> <u>metric ton</u>	<u>Au oz/</u> <u>ton</u>	<u>Au gm/</u> <u>metric ton</u>
107 cm	0.44	0.98	1.70	7.65	262.4	0.010	0.34
46 cm	0.11	4.40	1.30	1.82	62.4	0.050	1.71
56 cm	0.05	2.40	0.78	1.17	40.1	0.016	0.55
183 cm	0.09	12.00	3.80	1.12	38.4	0.190	6.5
61 cm	0.01	3.85	1.00	0.26	8.9	0.022	0.75

CONCLUSIONS

Significant values of base and precious metals occur in an easterly striking mineralized quartz-carbonate vein cutting Takla andesite porphyries. Although the vein system is traceable along strike for approximately 490 meters significant mineralization is apparently restricted to the western 180 meters of the vein. The vein varies in width from 0.3 to 1.8 meters, with an average width of 0.8 meter.

The vein is open at both ends along strike, and is untested at depth.

Vancouver, B.C.

December 15, 1975

Victor Ryback-Hardy
V. Ryback-Hardy, P.Eng.

STATEMENT OF COSTS INCURRED

The costs incurred on performing the assessment on the HAR Nos. 2, 3 and 5 claims (HAR No. 1 Group), are as follows:

<u>Analyses:</u>	8 rock chip samples analysed for Zn, Pb, Cu, Ag & Au	\$16/sample	\$128.00
<u>Wages:</u>	3 days		
	Gordon Davies	\$35.00/day	\$105.00
	Donald R. MacKay	\$28.00/day	<u>84.00</u>
			\$189.00
<u>Room & Board:</u>	@ \$10/man-day x 6 man-days		\$ 60.00
<u>Helicopter Support:</u>	1 hr mob & demob from Lawyers Camp		
	@ \$365/hr (including fuel)		\$365.00
<u>Report Preparation:</u>	Salaries, drafting, typing		<u>\$125.00</u>
			<u>\$867.00</u>

V. Ryback-Hardy
V. Ryback-Hardy, P.Eng.

STATEMENT OF QUALIFICATIONS

The rock geochemical survey on the HAR Nos. 2, 3, and 5 claims was conducted by:

- Gordon Davies - Prospector employed by Kennco for 13 years.
- Thirty-five years total experience prospecting.
- Donald Robert MacKay - University student, five summer seasons working for Kennco as field assistant collecting soil, silt and rock samples.

The work was done under the direct supervision of V. Ryback-Hardy, P/Eng., whose qualifications are:

1. Graduated from the University of British Columbia with a degree in Geological Engineering, B.A.Sc. 1970.
2. Is a registered Professional Engineer in the Province of British Columbia and resides at 1169 Trumpeter Drive, Richmond, B.C.
3. Has practiced his profession for five years.
4. Supervised the work outlined in this report while in the employe of Kennco Explorations, (Western) Limited.

Vancouver, B.C.

December 15, 1975


V. Ryback-Hardy, P.Eng.

APPENDIX 1: Assay Lab Report

KENNCO EXPLORATIONS, (WESTERN) LIMITED

1405 PEMBERTON AVENUE
NORTH VANCOUVER, B.C. V7P 2R8

Date September 8, 1975.

To G. Davies		ASSAY LAB REPORT					Code 020140-Har	
KX Sample No.	Mo %	Cu %	Zn %	Pb %	Ag oz./T	Au oz./T		
	26751	.01	.44	.98	1.70	7.65	.010	
52	.01	.11	4.40	1.30	1.82	.050		
53	.01	.05	2.40	.78	1.17	.016		
54	.01	.09	12.00	3.80	1.12	.19		
55	.01	.01	3.85	1.00	.26	.022		
56	.01	<.01	.08	.04	.08	.001		
57	.01	.01	.19	.39	1.18	.005		
58	.01	.01	.10	.30	.09	.004		

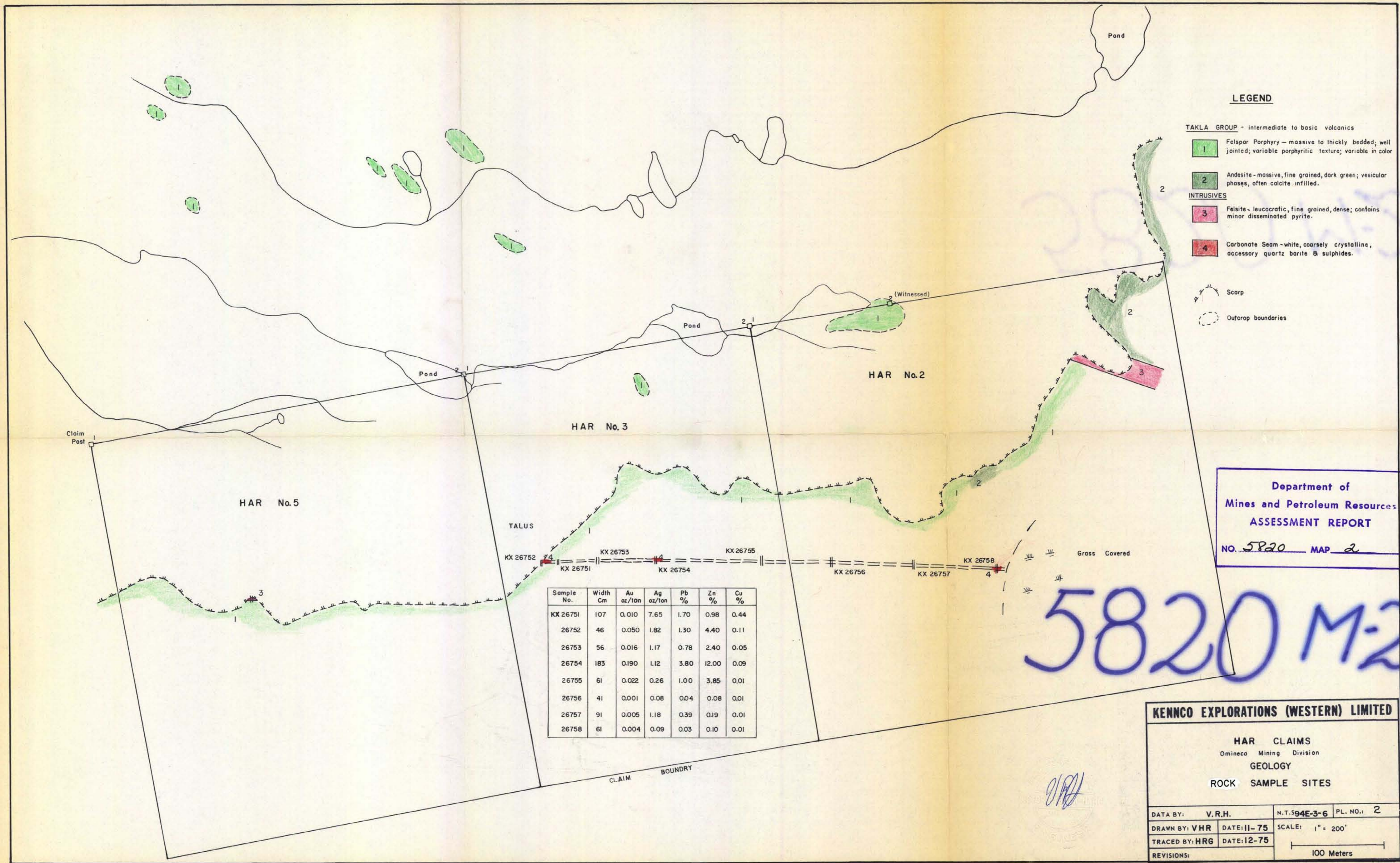
12"
18"
22"
72"
24"
16"
36"
24"

EXTRACTION HCl HNO3 REMARKS Au extracted from solution

METHOD AA by MIBK

FRACTION USED -100 KX 26754 @ 1 gm. for

WEIGHT USED 1 & 10 gm. ANALYST HRG *H. K. Hoddard*



LEGEND

- TAKLA GROUP - intermediate to basic volcanics
- 1 Felspar Porphyry - massive to thickly bedded; well jointed; variable porphyritic texture; variable in color
 - 2 Andesite - massive, fine grained, dark green; vesicular phases, often calcite infilled.
- INTRUSIVES
- 3 Felsite - leucocratic, fine grained, dense; contains minor disseminated pyrite.
 - 4 Carbonate Seam - white, coarsely crystalline, accessory quartz barite & sulphides.
- Scarp
 - Outcrop boundaries

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 5820 MAP 2

Sample No.	Width Cm	Au oz/10m	Ag oz/ton	Pb %	Zn %	Cu %
KX 26751	107	0.010	7.65	1.70	0.98	0.44
26752	46	0.050	1.82	1.30	4.40	0.11
26753	56	0.016	1.17	0.78	2.40	0.05
26754	183	0.190	1.12	3.80	12.00	0.09
26755	61	0.022	0.26	1.00	3.85	0.01
26756	41	0.001	0.08	0.04	0.08	0.01
26757	91	0.005	1.18	0.39	0.19	0.01
26758	61	0.004	0.09	0.03	0.10	0.01

KENCO EXPLORATIONS (WESTERN) LIMITED

HAR CLAIMS
Omineca Mining Division
GEOLOGY
ROCK SAMPLE SITES

DATA BY: V.R.H.	N.T. 594E-3-6	PL. NO.: 2
DRAWN BY: VHR	DATE: 11-75	SCALE: 1" = 200'
TRACED BY: HRG	DATE: 12-75	100 Meters
REVISIONS:		

5820 M-2