4615

KENNCO EXPLORATIONS, (WESTERN) LIMITED

REPORT

ON

SOIL GEOCHEMICAL SURVEY

LAWYERS NO. 8 GROUP

(Lawyers Mineral Claims 35-44, 109, 111-116 165-172, 180, 181-186)

Situated 25 miles northwest of Thutade Lake,
Omineca Mining Division,
British Columbia

57°18'N

127°12'W

July 25 to Aug. 2, 1973

Department of

Mines and Petroleum Resources

ASSESSMENT REPORT

NO 4615

BY

S.C. Gower

.A. Grace, P.Eng.

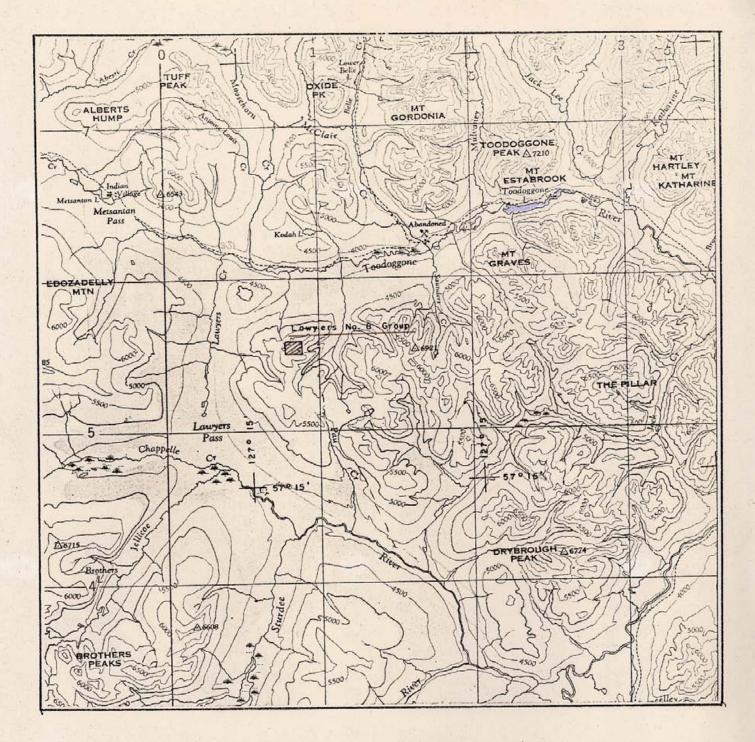
Oct. 5, 1973

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Kennco Explorations (Western) Limited Lawyers No. 8 Group

Situated	12 miles Southwest o	f Toodoggone Lake
	Omineca M.D.	Department of Scole: 1:250,000 Mines and Petroleum Resources
	Location	Map Assessment REPORT
		NO. 4615 MAP#1

INTRODUCTION

The mineral property discussed in this report is situated about 20 miles northwest of Thutade Lake, British Columbia. The exploration work on these claims consisted of a soil geochemical survey.

The planning, interpretation and writing of the report for the survey work was conducted by S.C. Gower, B. Sc. Sampling personnel are listed under 'Statement of Costs Incurred'. The report was written under the general supervision of K.A. Grace, P.Eng.

LOCATION AND ACCESS

The property is situated at Latitude 57°18'N, Longitude 127°12'W, about 180 miles due north of Smithers. This is about 25 miles northwest of Thutade Lake. The survey area is about 5500' to 5700' above sea level. The area is all above tree-line, and outcrop is prominent.

Access to the property is by fixed-wing air-craft from Smithers to Black Lake, a distance of about 165 miles, and by helicopter from there. Local travel on the Lawyers property is fairly easy. A helicopter was used to set out sampling crews in order to minimize travel time from camp which is a four-hour round trip on foot from the survey area.

SOIL SURVEY FIELD WORK

Sample Site Control

A control grid was established by chain and compass survey. Pickets and flagging were utilized to mark the stations as the survey area is above tree-line. This gave good control of sample locations, with minimum expenditures.

Sample lines were run at 200° intervals in a NE-SW direction. A base map with a scale of $1'' = 200^{\circ}$ was compiled for use in plotting the sample results.

Soil Sample Collection

The samples were collected at 200' intervals along the grid lines. They were taken from the top of the 'B' (rusty) horizon where possible. In some rocky areas sufficient soil could not be found to take a sample. The samples were collected by digging a small hole with a mattock. By this means it was possible to examine the soil horizon development. A note was made of the grid line location, the sample number, the depth of sample, the horizon sampled, the direction of drainage, the type of vegetation and the soil type.

Packaging

The samples were placed in $3" \times 4 \times 1/2"$ brown paper envelopes, on which the sample numbers had been marked. These were closed with a triangular triple fold. (The bags are not anomalous in trace metals).

Sample Preparation

The samples were taken to base camp and partly air dried. The samples were then shipped to our labratory in North Vancouver where they were oven dried at 80°C and sieved through an 80 mesh steel screen. (These sieves do not show any noticeable wear even after several thousand samples have been sifted.) The minus 80 mesh fraction was collected for all of the analyses involved.

ANALYSIS

The samples were analysed in the North Vancouver labratory of Kennco Explorations, (Western) Limited, under the supervision of H.R. Goddard, labratory manager. Total extraction from a weighed sample is achieved by digestion with nitric acid and 70% perchloric acid. Determination of the Cu, Mo, Zn, Pb, Ag, Co, Ni content is made by aspiration in a Techtron AA5 Atomic Absorption Spectrophotometer. To determine the Au content, a weighed sample is digested in aqua regia, filtered, and the gold removed by solvent-solvent extraction in an organic solvent, MIBK (methyl-isobutyl-ketone). This is aspirated in the Techtron AA5.

INTERPRETATION

The purpose of the soil grid was to test the metal content of the soil to the west of a silicious altered volcanogenic exhalent deposit for possible hidden mineralization close to the volcanic center.

The depth of overburden varies from a few feet to probably more than 20 feet over most of the area sampled. Considering the type of soil it would seem most likely that soil geochemistry is a reliable technique on these parts of the property. The samples were analyzed for total metal content in copper, molybdenum, zinc, lead, silver, gold, cobalt and nickel.

The values in the soil indicate that the overall metal content of the underlying rocks are about background. Arithmetic means are: Cu-18 ppm, Mo-1 ppm, Pb-12 ppm, Co-12 ppm, Co-

STATEMENT OF COSTS INCURRED

Statement of Costs

The costs incurred on assessment work on the Lawyers #8 Group of mineral claims were as follows:

Soil Geochem Survey

	Ana	lyses	of	102	samples	for	Cu,	Mo,	Zn,	Pb,	Co,	Ni,	Αu,	Ag,	
(102	samples	X \$6	.20	/sam	ple)								, \$	632.	40
WACES	S & BOAR	n													

s.c.	Gower	July	25,	26,	30			3 X	55.00	=	\$ 165.00
T.	Drown	July	25,	26,	27			3 X	50.00	=	\$ 150.00
P.	Yuen	July	25,	26,		Aug.	2	3 X	35.00	=	\$ 105.00
L.	Gower	July	25,	26,		Aug.	2	3 X	34,00	=	\$ 102.00

Transportation Costs

Helicopter time per day (8 miles round trip X 4 trips/day) 2/3 hr./day X 3 days X (\$130.00/hr. + \$24.00/hr. for fuel). \$	308.00
Drafting & Typing	100.00

\$1,562.40

My

DISTRIBUTION OF WORK

Lawyer's Group No. 8

Claim No.	Record No.	Record Date	Years Work Applied
3 5	89 956	8/ 7/73	1
36	89957	8/ 7/73	1
37	89958	8/ 7/73	1
38	89959	8/ 7/73	1
39	89960	8/ 7/73	1
40	89961	8/ 7/73	1
41	89962	8/ 7/73	1
42	89963	8/ 7/73	1
43	89964	8/ 7/73	1
44	89965	8/ 7/73	. 1
109	95462	11/10/73	1
111	95464	11/10/73	1
112	95465	11/10/73	1
113	95466	11/10/73	1
180	103150	9/ 3/73	1

Vancouver, B.C.

October 5, 1973

K. A. Gree, Eng.

