

4340

GEOLOGICAL REPORT ON THE PROPERTY OF

MONTEGO RESOURCES LTD. (N.P.L.)

KUMP LAKE, PRINCETON, B.C.

92H/10E

SIMILKAMEN MINING DIVISION.

AD 4-72

LISA 1-45

Situated south of Kump Lake, 19 miles
north of Princeton.

49° 43'N

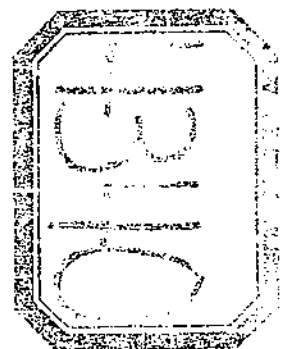
120° 38'W

Submitted by: D.P. Taylor, Geologist

Endorsed by: R.J.D. Philip, P. Eng.

Owner: Montego Resources Ltd. (N.P.L.)

Work conducted by: Agilis Exploration
Services Ltd.



REPORT ON
GEOLOGICAL SURVEY
ON THE
LISA AND AD GROUPS
KUMP LAKE, 19 MILES NORTH
OF PRINCETON, SIMILKAMEEN
MINING DIVISION.
FOR
MONTEGO RESOURCES LTD.

August 23, 1972.

Vancouver, B.C.

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. **4340** MAP

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MAPS:

#1 Claim Location Map

1" = 2000'

#2 GEOLOGICAL MAP

1" = 400'



GEOLOGICAL REPORT ON THE
PROPERTY OF MONTEGO RESOURCES LTD. (N.P.L.)

LISA AND AD GROUPS

SIMILKAMEEN MINING DIVISION, 19 MILES NORTH OF PRINCETON, B.C.

INTRODUCTION:

Montego Resources Ltd. (N.P.L.) property comprises 62 contiguous mineral claims situated south of Kump Lake and east of Pike Mountain, about twenty miles north of Princeton, Similkameen Mining Division, B.C.

Geochemical and magnetometer surveys were conducted over the property early in 1972. This report covers the geology of the grid area established for these surveys. Mapping was conducted between July 6 and July 12, 1972 by D.P. Taylor, geologist, of Agilis Exploration Services Ltd., with the assistance of J. Pitcher.

LOCATION AND ACCESS:

The property is located on Pike Mountain, north of Kump Lake which is north west of Allison Lake. Grid coordinates of the south east corner of the group are:-

Lat. $49^{\circ} 43' N$
Long. $120^{\circ} 38' W$

Dirt road access is possible from the Princeton to Merrit Highway No.5 from the Gladstone Lake turn-off.

PHYSIOGRAPHY:

The property lies in a high valley trending northeasterly across the property to Kump Lake (3700') on the northeast corner. The valley floor lies at 3900' and is flanked to the northwest and southeast by 4700 foot ridges. The topography is

is generally flat to moderately steep, with some precipitous areas near the ridges.

Steep sided creek valleys contain small creeks, drainage areas are generally limited. Flat areas on the property tend to be swampy. The claim area is generally covered with spruce and hemlock with moderately thick brush.

The area is snow covered in the winter and has moderate precipitation in the summer.

PROPERTY:

<u>CLAIM</u>	<u>RECORD NO.</u>	<u>DATE RECORDED</u>
LISA 1-20	33273-33292	May 19, 1971.
LISA 26-45	33293-33312	May 19, 1971
AD 1-20	35127-35146	April 17, 1972
AD 21-22	35541-35542	May 19, 1972

GEOLOGICAL SURVEY:

Geological mapping was conducted over the property using the previously established grid of 400 foot spaced east-west lines with stations every 200 feet. The grid is somewhat erratically established, however, reasonably good control was maintained utilising the geophysical base map.

The area mapped covered the following claims:-

LISA 1-8, LISA 13-20, LISA 26-33, AD 1-22

REGIONAL GEOLOGY:

The property is located over an area of complex intrusives of the Coast intrusions which have intruded Nicola Group volcanics and Pasayten Group sediments in this area. The intrusives are part of an extensive stock south of Aspen Grove as shown on the Princeton sheet 888A of the Canada Department of Mines and

Resources geological series.

PROPERTY GEOLOGY:

The bulk of the property is underlain by granites and granodiorites of the coast intrusions. The southeast and northwest corners of the mapped area are underlain by dark, medium to fine-grained diorites. Nicola Group volcanics are generally confined to the southwest corners of the mapped area.

GRANITE - GRANODIORITE:

Medium to coarse grained granites of very low magnetite content cover the entire central area of the property. A fairly quartz rich and apparently K-feldspar rich pink granite grades into extensive areas of plagioclase rich granodiorite. Field distinction between these two rock types was judged to be unreliable and impractical; due to their intimate relationship they were mapped as one unit. Toward the northeast there is a marked tendency toward reddish potash feldspar rich granite of coarser grained textures.

DIORITE:

Fine-grained and medium-grained dark diorites of high magnetite content are found on two topographically elevated areas in the ^{NW} northeast and ^{SE} southwest of the property. In limited areas this rock has a black gabbroic appearance. Traces of disseminated pyrite are common in the diorite and traces of chalcopyrite and malachite were found in it at the centre of the southern boundary of the mapped area. Erratically distributed minor occurrences

of dark diorite occur over most of the property as isolated individual outcrops. The diorite has apparently intruded the granite - granodiorite and the two elevated occurrences of diorite may possibly be the remnants of a laccolith or large sill.

Leucocratic diorite was noted on two occasions and is most probably a late, mafic poor phase of the main dark diorite intrusion on whose contacts it occurs.

MONZONITE AND SYENITE:

Light monzonite occurs as scattered outcrops, and as one massive occurrence to the northwest on the granite-diorite contact. The scattered outcrops are almost all close to contact areas.

Less extensive syenite, pink in colour, occurs in the northeast of the area as a small plug, and in the southwest in a complex alteration and intrusive area on the Nicola Group contact.

NICOLA GROUP VOLCANICS:

Green andesite, often epidote rich, of the Nicola Group occurs in the southwest corner of the claim group. The volcanics are extensively altered by pervasive intrusives. Occasional isolated occurrences of volcanics, probably xenoliths, occur in other parts of the property.

MINERALISATION:

Apart from the traces of pyrite pervasive through the dark diorites and the traces of chalcopryrite and malachite mentioned earlier, no sulphide mineralisation was noted in the mapped area.

Minor occurrences of epidote and K-feldspar can be found in most areas as veinlets and stringers, little alteration has occurred.

Extensive magnetite present in the dark diorite is the cause of the high anomalous areas found in the magnetometer survey.

This became a useful tool in assisting the geological mapping.

CONCLUSIONS AND RECOMMENDATIONS:

Despite the geologically attractive complex of intrusives in this area little indication of economic mineralisation has been seen. Magnetometer survey anomalies have been explained by the magnetite rich diorite. Geochemical survey results were not encouraging. Claims to the south and west of the mapped area are as yet unexplored. Geochemical and geological surveys of these claims should be conducted to assess their potential. The only copper mineralisation found on the property was on the extreme southern boundary of the grid, this occurrence should be further investigated to the south by soil sampling, prospecting and geological mapping.

Submitted by: D.P. TAYLOR, Geologist.



Endorsed by: R.H.D. PHILP, P. Eng.

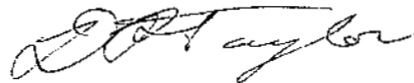


CERTIFICATION

I, David Pelham Taylor of Vancouver, B. C. do hereby certify that:

1. I am an Exploration Geologist residing at 2097 West 6th Avenue, Vancouver 9, B. C.
2. I am a graduate of the Royal School of Mines, Imperial College, London, M.Sc, D.I.C. 1971.
3. I have practiced as an exploration geologist in B.C. for four years.
4. The geological mapping on this property was conducted by myself and an assistant between August 6 and August 12, 1972.

D.P.TAYLOR, M.Sc, D.I.C.



August 23, 1972

Vancouver, B.C.

DOMINION OF CANADA:
PROVINCE OF BRITISH COLUMBIA.
To Wit:

In the Matter of the geological survey on the
Kump Lake claims of Montego Resources Ltd.

I, Ed Egley
c/o Agilis Exploration Services Ltd.,
107 - 325 Howe Street,
of Vancouver, B.C.

in the Province of British Columbia, do solemnly declare that the following personnel were employed and costs incurred in conducting the survey.

Personnel

D. Taylor - geologist	14½ days @ 100.00/day	\$1,425.00
J. Pithner - assistant	10 days @ 33.81/day	338.10
R. Philp - geologist	2 days @ 200.00/day	200.00
B. Talbot - draughting	22 hrs @ 8.00/hr.	176.00

Disbursements

Meals & accomodations	\$68.08	
Groceries & supplies	89.10	
Misc.	17.50	
Gas	19.10	
Truck rental	<u>250.00</u>	\$ 443.78

Plus 10% service charge on disbursements 44.38

TOTAL \$2,627.26

And I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath and by virtue of the "Canada Evidence Act."

Declared before me at the City
of Vancouver, in the
Province of British Columbia, this 19
day of April 1973, A.D.

Ed Egley

John Turner
A Commissioner for taking Affidavits for British Columbia or
A Notary Public in and for the Province of British Columbia.

Submitting Recorder

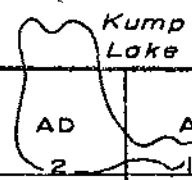
In the Matter of

3

Statutory Declaration
(CANADA EVIDENCE ACT)

AD GROUP

LISA 9	LISA 7	LISA 5	LISA 3	LISA 1					
LISA 10	LISA 8	LISA 6	LISA 4	LISA 2	AD 1	AD 2	AD 11	AD 12	
LISA 12	LISA 14	LISA 16	LISA 18	LISA 20	AD 3	AD 4	AD 13	AD 14	
LISA 11	LISA 13	LISA 15	LISA 17	LISA 19	AD 5	AD 6	AD 15	AD 16	
LISA 34	LISA 32	LISA 30	LISA 28	LISA 26	AD 7	AD 8	AD 17	AD 18	
LISA 35	LISA 33	LISA 31	LISA 29	LISA 27	AD 9	AD 10	AD 19	AD 20	
LISA 36	LISA 38	LISA 40	LISA 42	LISA 44			AD 22	AD 21	
LISA 37	LISA 39	LISA 41	LISA 43	LISA 45					



Princeton
approx. 20mi

120°37'30"

49°44'00"



LISA GROUP

MONTEGO RESOURCES LTD. (NPL)
KUMP LAKE AREA, B.C.
SIMILKAMEEN MINING DIVISION

AD & LISA CLAIMS

SCALE — 1" = 2000 FT.

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. 4340 MAP #1

44W 40W 36W 32W 28W 24W 20W 16W 12W 8W 4W 0 4E 8E 12E 16E 20E 24E 28E 32E 36E 40E 44E 48E 52E 56E 60E 64E 68E 72E 75E

84N
80N
76N
72N
68N
64N
60N
56N
52N
48N
44N
40N
36N
32N
28N
24N
20N
16N
12N
8N
4N
0



4340 M-2

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 4340 MAP #2

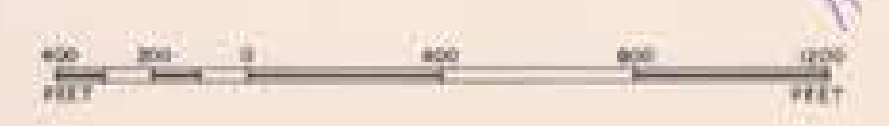
LEGEND

	Lake		1 DIORITE - medium to very fine-grained
	Swamp		2 DIORITE - leucocratic
	Road		3 GRANITE - Granodiorite
	Survey station		4 MONZONITE
	Claim post		5 SYENITE
	Stream (intermittent)		6 VOLCANICS - Nicola Group (often altered)
	Creek		7 TRAP DYKES
	Inferred contact		
	Boundary of outcrop with defined contact		
	Fault		
	Strike and dip		



AGILIS EXPLORATION SERVICES LTD.
MONTEGO RESOURCES LTD. (NPL)
AD & LISA CLAIMS
KUMP LAKE AREA, B.C.
SIMILKAMEEN MINING DIVISION

GEOLOGICAL SURVEY



RAP