

CONTENTS

	PAGE
INTRODUCTION	1
LOCATION AND ACCESS	1
PHYSIOGRAPHY	2
PROPERTY	2
GEOLOGY AND MINERALIZATION of BRITISH COLUMBIA PORTIONS	3
TRENCHING IN THE YUKON PORTIONS	5
STATEMENT OF QUALIFICATIONS	7

ILLUSTRATIONS :

- #1 B.C. LOCATION MAP - SHEET 104-0
- #2 YUKON LOCATION MAP - SHEET 105B
- #3 GEOLOGICAL-PHYSICAL WORK MAP, CONE MT. MINES, LTD
- #4 GEOLOGICAL-PHYSICAL WORK MAP, YUCOL MINES, LTD.

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 5095 MAP

A Report on the Reconnaissance Geology of Luck-Cone Claims and Sandy Claims in Liard Mining Division, B.C. and on Trenching Work done in Luck and Sandy Claims within Watson Lake Mining Division, Yukon belonging to Cone Mountain Mines, Ltd. and Yucol Mines, Ltd. for the year 1974.

INTRODUCTION

During the period June 28 to July 17, the writer accompanied by Garth Alley undertook the reconnaissance geology of two groups of mineral claims in Liard Mining Division, B.C. and carried out some trenching work on the other adjoining groups of claims in Watson Lake Mining Division, Yukon, belonging to Cone Mountain Mines, Ltd., and Yucol Mines, Ltd. A D-7 caterpillar operated by Ray Rule of Stewart Construction was used in trenching.

This report consolidates information derived from the field-work accomplished during the writer's sojourn in the bordering area of B.C. and Yukon covered by the groups of claims under assessment belonging to Cone Mountain Mines, Ltd. and Yucol Mines, Ltd.

LOCATION and ACCESS

Cone Mountain Mines, Ltd. Luck-Cone claim group is situated on the northeastern part of Tootsee Ridge bordering areas of Yukon and British Columbia, at approximately $59^{\circ} 59'$ to $60^{\circ} 01'$ North Latitude, and $130^{\circ} 26'$ to $130^{\circ} 29'$ West Longitude. The property is accessible by a 7-mile dirt road which connects at Mile 706 on the Alaska Highway, extends south on the east side of Freer Creek.

The Sandy claims of Yucol Mines, Ltd. are situated in the northern part of the Tootsee Ridge area, 2 miles to the west of Cone Mountain Mines' property, likewise covering the bordering portions of Yukon and British Columbia at approximately 59 59' to 60 01' North Latitude and 130 32' to 130 33 1/3' West Longitude. Access to the claims is by a 6½ mile dirt road which forks to the southwest from a point 1½ miles on the road which connects at Mile 706 on the Alaska Highway, and following the west side of Freer Creek to the south.

PHYSIOGRAPHY

Both properties occupy a U-shaped valley which ends up in a cirque and its adjoining ridges having elevations of 4,500 feet and 6,500 feet respectively. The ridges are steepwalled, barren of vegetation, and flanked by talus of quartz monzonite rocks at the base. Large and small boulders of country rock embedded in alluvial material cover the valley where alpine hedges and small conifers thrive.

PROPERTY

As of date, the properties of Cone Mountain Mines, Ltd. and Yucol Mines, Ltd. are briefly stated and outlined below.

For Cone Mountain Mines Ltd. 20 contiguous claims are retained, 10 of which are in the Yukon and the other 10 are in British Columbia. Metal tags were affixed to posts in Luck claims on both areas. These are given as follows:

<u>NAME</u>	<u>LOCATION</u>	<u>RECORD #</u>	<u>EXPIRY DATES</u>
Luck 7-12	Watson Lake M.D. Yukon	Y29466-Y29471	Sept 12/74
Luck 15	Watson Lake M.D. Yukon	Y29474	Sept 12/74
Luck 17	Watson Lake M.D. Yukon	Y29476	Sept 12/74
Luck 19	Watson Lake M.D. Yukon	Y29478	Sept 12/74
Luck 21	Watson Lake M.D. Yukon	Y29480	Sept 12/74
Luck 25-28	Liard M.D. B.C.	39700-39703	Sept 5/74
Cone 1-6	Liard M.D. B.C.	50770-50775	July 24/75

Eight (8) claims were dropped, 6 in Watson Lake Mining Division, Yukon which include Luck 13,14,16,18,20 & 22; while 2 were dropped in Liard Mining Division, B.C. including Luck 2 and 4.

For Yucol Mines, Ltd. the current mineral claims are given as follows:

<u>NAME</u>	<u>LOCATION</u>	<u>RECORD #</u>	<u>EXPIRY DATES</u>
Sandy 1	Watson Lake M.D. Yukon	Y42948	Aug 31/74
Sandy 9-22	Watson Lake M.D. Yukon	Y42957-42970	Aug 31/74
Sandy 24	Watson Lake M.D. Yukon	Y42972	Aug 31/74
Sandy 25-26	Liard M.D. B.C.	48571-48572	Sept 5/74
Sandy 27	Liard M.D. B.C.	48573	Sept 5/75
Sandy 28-29	Liard M.D. B.C.	48574-48575	Sept 5/74
Sandy 31	Liard M.D. B.C.	48577	Sept 5/74
Sandy 33	Liard M.D. B.C.	48579	Sept 5/74
Sandy 35-38	Liard M.D. B.C.	48581-48584	Sept 5/75
Sandy 39-40	Liard M.D. B.C.	48585-48586	Sept 5/74
Sandy 41-42	Liard M.D. B.C.	48587-48588	Sept 5/75
Sandy 43-44	Liard M.D. B.C.	48589-48590	Sept 5/74

Eleven(11) claims were dropped including 8 claims in Watson Lake Mining Division, Yukon(Sandy 2-8 and 23) and 3 claims in Liard Mining Division, B.C. were also dropped(Sandy 30,32 and 34). Metal tags were also affixed to posts in all Sandy claims on both sides of the boundary line.

GEOLOGY and MINERALIZATION of BRITISH COLUMBIA PORTIONS

The geology and mineralization of Luck claims 25-28 and Cone 1-6 belonging to Cone Mt. Mines, Ltd. and that of Sandy 25-29,31,33 and 35-44 belonging to Yucol Mines, Ltd. will be described briefly under one heading, as they all occur in the same general area within Liard Mining Division, B.C., and having similar geological setting.

Properties in the B.C. portion of the claims of the two companies referred to above are undelain by a biotite quartz monzonite of the Cassiar Batholith. The monzonite is grey, massive, homogeneous, predominant ferromagnesian mineral. The rocks are relatively fresh with slight sericitic alteration affecting the plagioclase feldspar, and biotite in places partially replaced by chlorite. Age of the monzonite is Mid-Cretaceous.

The biotite quartz monzonite in the area covered by the two groups of claims in question is closely jointed along northeast-southwest and northwest-southeast directions with strong horizontal partings, and exhibit east-west and north-south fracture pattern.

Mineral showings are quite sparse in the British Columbia properties of both Cone Mountain Mines, Ltd. and Yucol Mines, Ltd. At Cone Mountain Mines, Ltd. Luck group of claims, only one mineral showing had been reported (Zone-5) near the common boundary line of Luck 25 and 27. The showing consists of floats of very fine massive galena in the scree of sand, gravel and boulders of biotite quartz monzonite on the east flank of the valley near the head of Freer Creek first east branch at elevation of approximately 5,500 feet. Last year trenching had not reached bedrock so that the spatial and structural relationships of the mineral showing are unknown.

At Yucol Mines, Ltd. Sandy claims, two quartz-galena veins, one upper and the other lower, occupy parts of the sheeted zones that cut biotite quartz monzonite just south of B.C.-Yukon boundary at the headwaters of west branch of Freer Creek. The sheeted zones are 4 feet to 6 feet wide, but lenticular veins of quartz-galena matter are irregularly developed in them with thicknesses ranging from a fraction of an inch to 6 inches. The upper vein strikes N 35 E dipping vertically occur near the crest of a ridge to the south where it was exposed over a width of 6 feet and a length of 10 feet. The lower vein is at 5,000 feet of elevation, strikes N 65^o - 70^o E and dips 80^o S and has been exposed by trenching over a width of 4 feet and a length of 150 feet. Recent trenching carried out on the north-easterly extension of the lower vein in the Yukon side show weakening in depth. Sericitic alteration was noted to be confined within the sheeted zones.

TRENCHING WORK in the YUKON PORTIONS

To further expose the showings and test one of the geochemical anomalies yielded in previous surveys, trenching has been carried out in Cone Mountain Mines, Ltd., and Yucol Mines, Ltd., mineral claims in the Yukon side of the B.C.-Yukon border. The trenches are numbered and plotted in their proper locations on the accompanying Geological-Physical Work maps of Cone Mountain Mines, Ltd., and Yucol Mines, Ltd. Their respective symbols are identified in the "Legend".

In the showings, the rocks trenched are highly jointed, horizontally sheeted and loosen somewhat by weathering along fracture planes; whereas, in the valleys where geochemical anomalies lie, the trenches are on alluvial deposits admixed with well-rounded boulders of quartz monzonite rocks.

Trenching done at Cone Mountain Mines, Ltd. in 1974 are enumerated as follows:

<u>TRENCH #</u>	<u>CLAIM LOCATION</u>	<u>DIMENSIONS</u>	<u>CUBIC YARDS</u>
T1	Luck 17	100'X20'X3'	222
T2	" "	"	222
T3	" "	"	222
T4	" "	"	222
T5	" "	"	222
T6	" "	"	222
T7	Luck 12	"	222
TOTAL			1,554

At Yucol Mines, Ltd., 1974 trenching is given as follows:

<u>TRENCH#</u>	<u>CLAIM LOCATION</u>	<u>DIMENSIONS</u>	<u>CUBIC YARDS</u>
T 1	Sandy 16	150'X15'X10'	833
T 2	" "	120'X15'X3"	200
T 3	" "	125'X15'X3'	208
T 4	" "	100'X10'X3'	111
T 5	" "	120'X10'X3'	133
T 6	Sandy 20	150'X30'X5'	833
TOTAL			2,318

August 1, 1974

Respectfully submitted,

Daniel M. Basco
 Daniel M. Basco,
 Geologist.

STATEMENT OF QUALIFICATIONS

Name: BASCO , Daniel M.

Profession: Geologist

Education: B.Sc. Geology, University of the Philippines, 1935.

Took post-graduate courses in Economic Geology,
University of the Philippines, 1936-1940.

Made studies and observations of basemetal mining and
exploration projects in Japan, under the auspices of
Mitsui Mining & Smelting Co., 1957.

**Professional
Associations:**

Registered Geologist, Philippines Board of Examiners.
Fellow, Geological Association of Canada.
Member, Mineralogical Association of Canada.

**Philippines
Experience:**

Eleven years teaching geology, University of the
Philippines.

Three years Government Geologist for Philippines Bureau
of Mines.

Fifteen years diversified experience in the practice of
geology having been connected as Field, Mining, Exploration
and Chief geologist for different mining and exploration
companies, such as Mitsui Mining & Smelting Co., Marsman &
Co., Elizalde & Co., Island Oil & Industrial Corporation
and Marinduque Mining & Industrial Corporation.

**Canadian
Experience:
(1964-1974)**

Ten years geological experience as Mines, Exploration
and Consulting Geologist at one time or another for
Western Mines, Ltd. Kerr Addison Mines, Ltd. Condor Mines,
Ltd. Columbia River Mines, Ltd. Mt. Sicker Mines, Ltd.
and Nordic Management & Development, Ltd.

Daniel M. Basco

CONE PROPERTY (B.C. -YUKON) EXPENSES

YUKON CLAIMS (Luck 15¹⁹, 17+21)
(Luck 7-12)

TRENCHING - 1,554 cubic yards @ .75¢ per cu.yd = \$1,165.50
(10 claims @ \$100.)

B.C. CLAIMS - (10 claims @ \$200) Cone 1,2,3,4,5,6,
Luck 25,26,27,28

GEOLOGICAL RECONNAISSANCE (Salary Bosco) 750.00

Garth (wages) Alley 500.00

Accomodations and meals 400.00

Transportation (Jeep rental) 536.00

TOTAL \$2,186.00

Declared before me at the *City*
of *Nanaimo*, in the
Province of British Columbia, this *16th*
day of *August* 19*74*, A.D.



J. P. Phillips
A Commissioner for taking Affidavits within British Columbia or
A Notary Public in and for the Province of British Columbia.

SUB-MINING RECORDER

YUCOL PROPERTY (B.C. -YUKON) EXPENSES

YUKON CLAIMS Sandy 9-22, Sandy 24, Sandy 1

TRENCHING 2,318 cubic yards @ .75¢ = \$1,738.50
(16 claims @ \$100)

B.C. CLAIMS -Sandy 25,26,28,29,31,33,39,40,43,44.
(10 claims @ \$200.00 = \$2,000.00)

GEOLOGICAL RECONNAISSANCE (salary-Bosco) 750.00

Garth Alley (wages) 500.00

Accomodations and meals 400.00

Transportation (jeep rental) 536.00

2186

TOTAL \$2,186.00

Declared before me at the *City*
of *Manushev*, in the
Province of British Columbia, this *16th*
day of *August* 1974, A.D. *[Signature]*

[Signature]
A Commissioner for taking Affidavits within British Columbia or
A Notary Public in and for the Province of British Columbia.

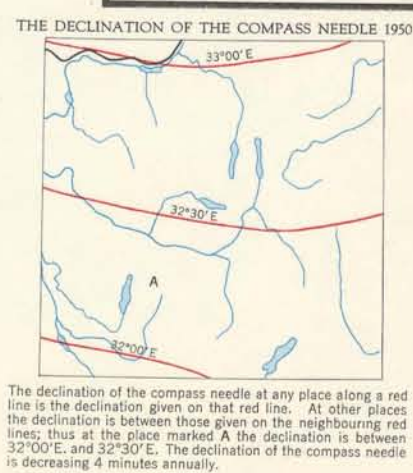
SUB-MINING RECORDER



5095
m1

TEN THOUSAND METRE
UNIVERSAL TRANSVERSE MERCATOR GRID
ZONE

GRID ZONE DESIGNATION	TO ONE A STANDARD REFERENCE ON THIS SHEET TO NEAREST 1000 METRES
49	ASH MOUNTAIN
US VS	1. Read before identifying 100,000 metre square in which the point lies.
UR VR	2. Locate line VERTICAL grid line on LEFT of point and read LARGE figure labeling the line after in the top or bottom margin, or on the line itself.
40	3. Estimate tenths from grid line to point.
	4. Locate line HORIZONTAL grid line BEYOND point and read LARGE figure labeling the line after in the top or bottom margin, or on the line itself.
	5. Estimate tenths from grid line to point.
	SAMPLE REFERENCE: VR 1471
	6. Reporting beyond 10" in any direction, prefix Grid Zone Designation as: 9VV1471



Surveys in 1947 and compilation in 1951 by the Topographical Survey from air photographs taken in 1948. Lithographed and printed by the Army Survey Establishment, R.C.E., Department of National Defence, 1952.

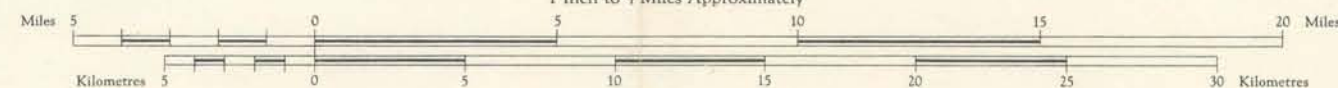
REFERENCE

Road, Hard Surface, All Weather	More than 2 Lanes	2 Lanes, Route No.	Less than 2 Lanes
Road, Loose Surface, All Weather	1 Lane or More	1 Lane or More	Dry Weather
Wagon Road, Cart Track etc.	Trail or Portage	Boundary Mon.	
Boundary, International	Boundary Mon.	Survey Mon.	
Boundary, Provincial	Boundary Mon.	Bench Mark	BM
Boundary, County or District	Boundary Mon.	Triangulation Sta.	2338
Boundary, Indian Reserve, Park etc.	Boundary Mon.	Spot Elevation (in feet)	2915
Surveyed Line	Surveyed Line	Telephone, Trunk Route	4
Main Electric Power Line	Telephone, Trunk Route	Single Track	5
Railway, Standard Gauge	Multiple Track	Single Track	6
	Station	Ship	7

Universal Transverse Mercator Projection.

JENNINGS RIVER
BRITISH COLUMBIA

Scale 1:250,000
1 Inch to 4 Miles Approximately

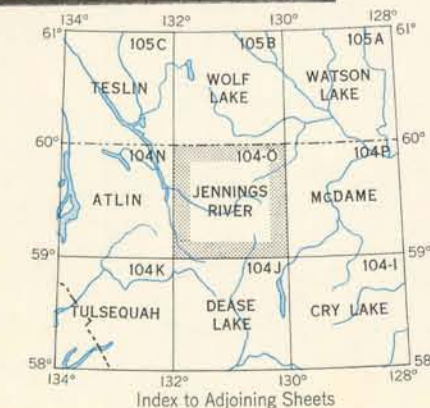


Contour interval 500 Feet
All Elevations in Feet above Mean Sea Level.

The general public may obtain copies of this map from the Map Distribution Office, Dept. of Mines and Technical Surveys, Ottawa.

REFERENCE

Building	Fire Lookout Tower	Contours, Elevation
School	Wireless Station	Contours, Approximate
Post Office	Mine	Contours, Depression
Church	Indefinite or Unsurveyed	Edar
Stream, Intermittent or Unsurveyed	Stream, Intermittent	Woods Area
Stream, in Dry River Bed	Braided Stream	Navigable Canal
Marsh or Swamp	Marsh or Swamp in water	Rapids and Falls
Glacier or Snowfield	Aerodrome (Elevation in feet)	Ferry
Sand, Gravel or Mud	Light House	Dam
	Seaplane Anchorage	



Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 5095 MAP #1

JENNINGS RIVER B.C.
SHEET 104-O
FIRST EDITION



5095
M2

TEN THOUSAND METRE
UNIVERSAL TRANSVERSE MERCATOR
ZONE 9

GRID ZONE IDENTIFICATION	TO GIVE A STANDARD REFERENCE OR THIS SHEET TO NEAREST 100 METRES
UT VT 670 US VS 40	TRIANGULATION STA. VT 15 09
<p>1. Read letters identifying 100,000 metre square in which the point lies</p> <p>2. Locate the VERTICAL grid line to LEFT of point and read U.S. figure showing the line number on the top or bottom margin, or on the line itself</p> <p>3. Estimate tenths from grid line to point</p> <p>4. Locate the HORIZONTAL grid line BELOW point and read U.S. figure showing the line number on the left or right margin, or on the line itself</p> <p>5. Estimate tenths from grid line to point</p>	
<p>SAMPLE IDENTIFICATION</p> <p>UT VT 15 09 US VS 40 9</p>	

THE DECLINATION OF THE COMPASS NEEDLE 1951

The declination of the compass needle at any place along a red line is the declination given on that red line. At other places the declination is between those given on the neighbouring red lines. Thus at the place marked A the declination is between 33°00'E and 33°30'E. The declination of the compass needle is decreasing 4 minutes annually.

Surveyed by the Topographical Survey in 1947. Compiled by the Topographical Survey in 1950 from air photographs taken in 1948. Lithographed and printed by the Army Survey Est. R.C.E., Dept. of National Defence, 1952.

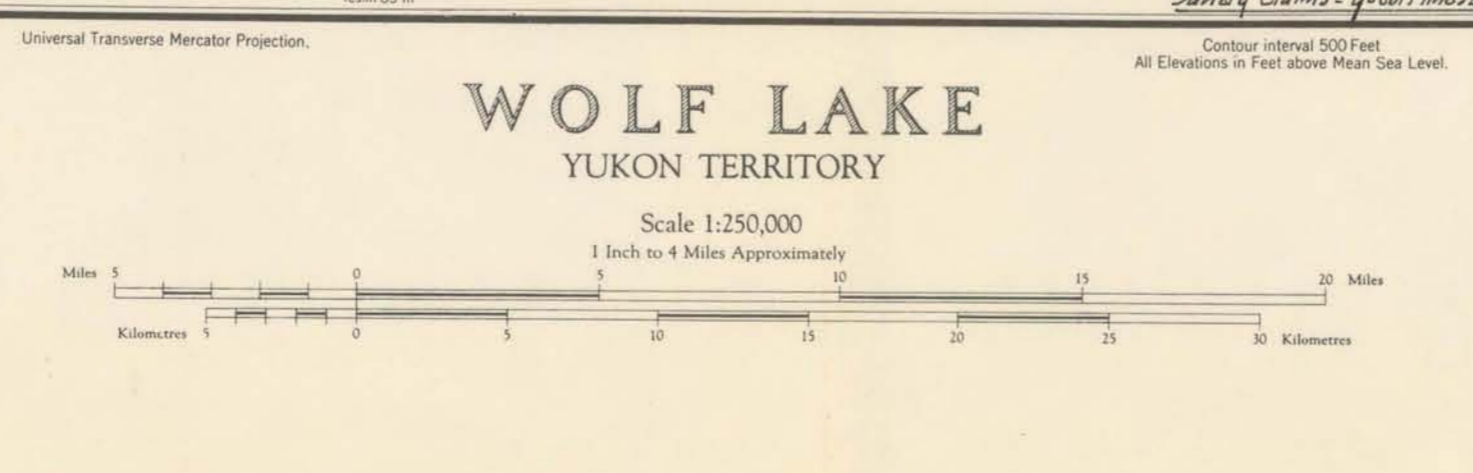
Universal Transverse Mercator Projection.

Scale 1:250,000
1 Inch to 4 Miles Approximately

Contour interval 500 Feet
All Elevations in Feet above Mean Sea Level.

References:
Sandy Claims - *Yucal Mines Ltd.*
Luck Claims Group - *Cone Mountain Mines Ltd.*

REFERENCE	REFERENCE
Road, Hard Surface, All Weather	Fire Lookout Tower
Road, Loose Surface, All Weather	School
Road, Wagon, etc.	Post Office
Boundary, International	Church
Boundary, Provincial	Stream, Indefinite or Unsurveyed
Boundary, County or District	Stream, Intermittent
Boundary, Indian Reserves, Park	Stream, in Dry River Bed
Surveyed Line	Stream, Intersecting
Main Electric Power Line	Braded Stream
Railway, Standard Gauge	Marsh or Swamp
	Marsh or Swamp in water
	Glacier or Snowfield
	Sand, Gravel or Mud
	Wireless Station
	Mine
	Contour, Approximate
	Contour, Depression
	Eden
	Wooded Areas
	Navigable Canal
	Ferry
	Dam
	Lighthouse
	Aerodrome (Elevation in feet)
	Spot Elevation (in feet)
	Seaplane Anchorage



Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 5095 MAP #2

WOLF LAKE Y.T.
SHEET 105B
SECOND EDITION

Index to Adjoining Sheets.



5095 M3

Cone & Luck Claims

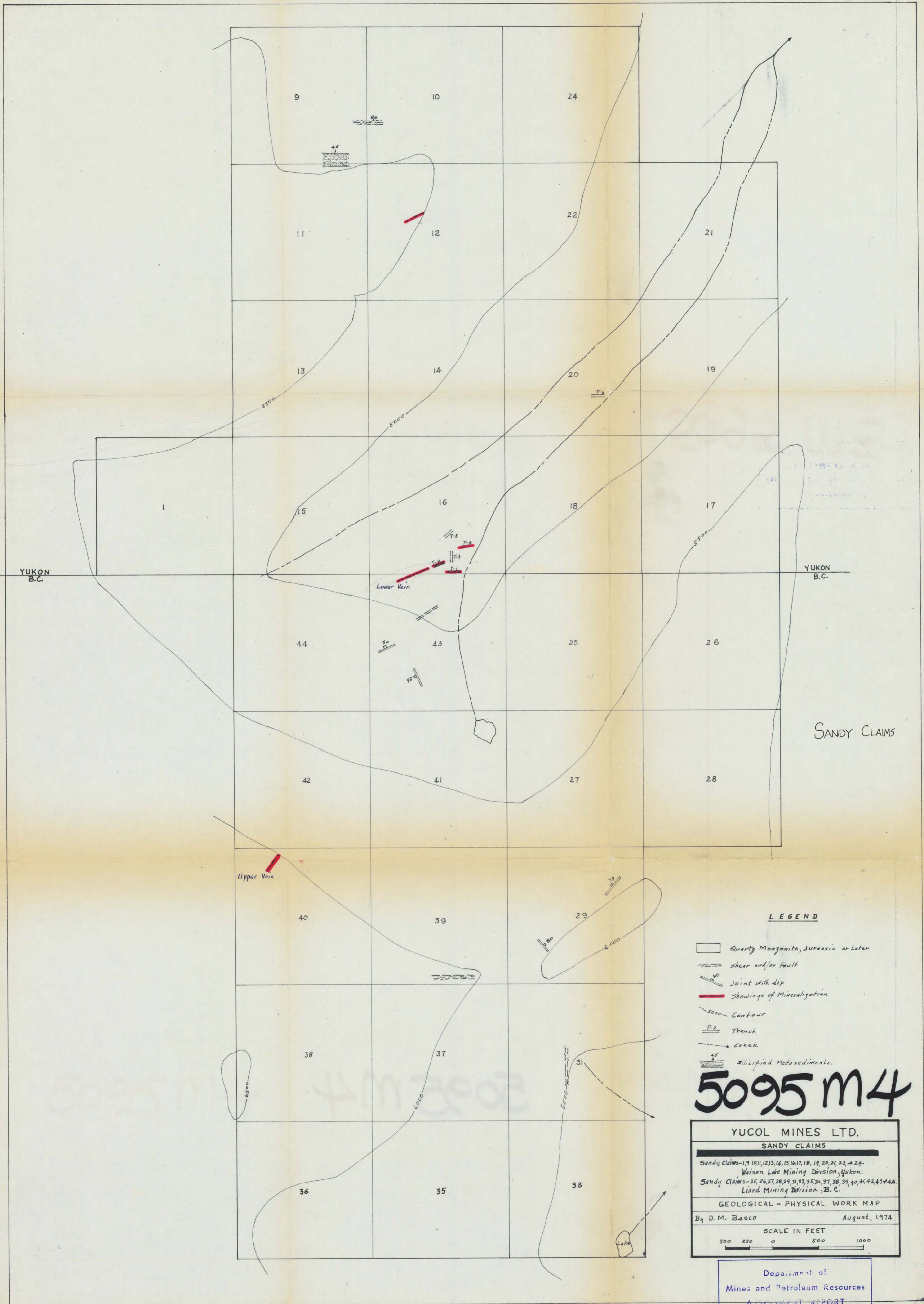
LEGEND

- Biotite Quartz Monzonite; Jurassic or Later.
- Shear Zone with Dip
- Joint, Strike & Dip
- Z-3 Reported Shadings in Zone.
- 5000 Contour Line with Elevation
- Fault with Dip
- T-2 Trench, Numbered
- Creek
- Road

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 5095 MAP #3

CONE MOUNTAIN MINES LTD.
Claims: Luck 7,8,9,10,11,12,15,17,19 & 21
Watson Lake Mining Division, Yukon
CLAIMS: Cone 1-6 & Luck 25-28
Liard Mining Division, B.C.
GEOLOGICAL - PHYSICAL WORK MAP
By D.M. BASCO *Renil M. Basco* August, 1974
SCALE IN FEET
500 250 0 500 1000

5095 M3



SANDY CLAIMS

LEGEND

- Quartz Monzonite, Jurassic or Later
- Shear and/or fault
- Joint with dip
- Showings of Mineralization
- Contour
- Trench
- Creek
- Silicified Metasediments.

5095 m4

YUCOL MINES LTD.
SANDY CLAIMS

Sandy Claims-1, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24.
 Watson Lake Mining Division, Yukon.

Sandy Claims-25, 26, 27, 28, 29, 31, 33, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44.
 Liard Mining Division, B.C.

GEOLOGICAL - PHYSICAL WORK MAP
 By D. M. Bassco August, 1974

SCALE IN FEET
 500 250 0 500 1000

Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. **5095** MAP **#4**