GEOLOGICAL, GEOPHYSICAL, GEOCHEMICAL REPORT
ANN + HOPE GROUP OF MINERAL CLAIMS
GALENA CREEK, NEW WESTMINSTER M. D.
49° 121° S. E.
for
BOMARC MINING CO. LTD.

92H/3E

JULY 12, 1967 TO OCTOBER 22, 1967

By
Joseph Sullivan

Joe Sullivan, P.Eng.
Mine Exploration

Telephone: Off. 261-0688
Res. 263-8022

2766 West 30th Ave.
Vancouver 8, B.C.

1195

REPORT ON

THE HOPE GROUP CLAIMS

Submitted to:

BOMARC MINING CO. LTD.
404-510 West Hastings Street
Vancouver 2, B. C.

By

JOSEPH SULLIVAN, P.Eng.
#5 - 2116 West 39th Avenue
Vancouver 13, B. C.

October 23, 1967

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MAPS AND SKETCHES:

LOCATION SKETCH . . . . . #1 . . .	(after 2)
CLAIM SKETCH. . . . . #2 . . .	(after 3)
SURFACE PLAN. . . . . #3 . . .	(after 6)
MAGNETOMETER PLAN . . . . . #5 . . .	(map holder)
GEOCHEMICAL PLAN . . . . . #6 . . .	(map holder)
GEOLOGICAL PLAN . . . . . #7 . . .	(map holder)

INTRODUCTION:

On June 5, 1967 the writer was retained by Bomarc Mining Co. Ltd. to examine and report on the mineral exposures on the Hope Group of claims in the Skagit River valley near the International Boundary. On the writer's recommendation the "Bomarc Co." had the area surrounding the shows surveyed geologically, geophysically, and geochemically. This latter work was done under the writer's supervision.

This report is based on the results of these surveys, and on the engineering data available in the reports by the Geological Survey of Canada and the Minister of Mines, B. C.

LOCATION AND ACCESS: (49^{o} 121^{o} SE)

The properties are located in the New Westminster Mining Division on Galena Creek, 29 air miles southeast of the town of Hope. A wide bed gravel road follows up the Silver-Hope Creek from No. 1 highway at Hope, into the Skagit River valley and passes within three miles of the north boundary of the claims. The approximate location of this logging road is shown on the location sketch following this page.

A well defined trail starts at the mouth of Galena Creek and travels up the west side of the creek to the 2,700 foot elevation. Hence, it crosses the creek and swings around the nose of the easterly ridge and up its east side, then over the same ridge back into Galena Creek valley to the showings on the Hope No. 2 mineral claim.

At this time there is no river crossing at the mouth of Galena Creek so that a helicopter had to be used for the preliminary survey work.

PROPERTY AND OWNERSHIP:

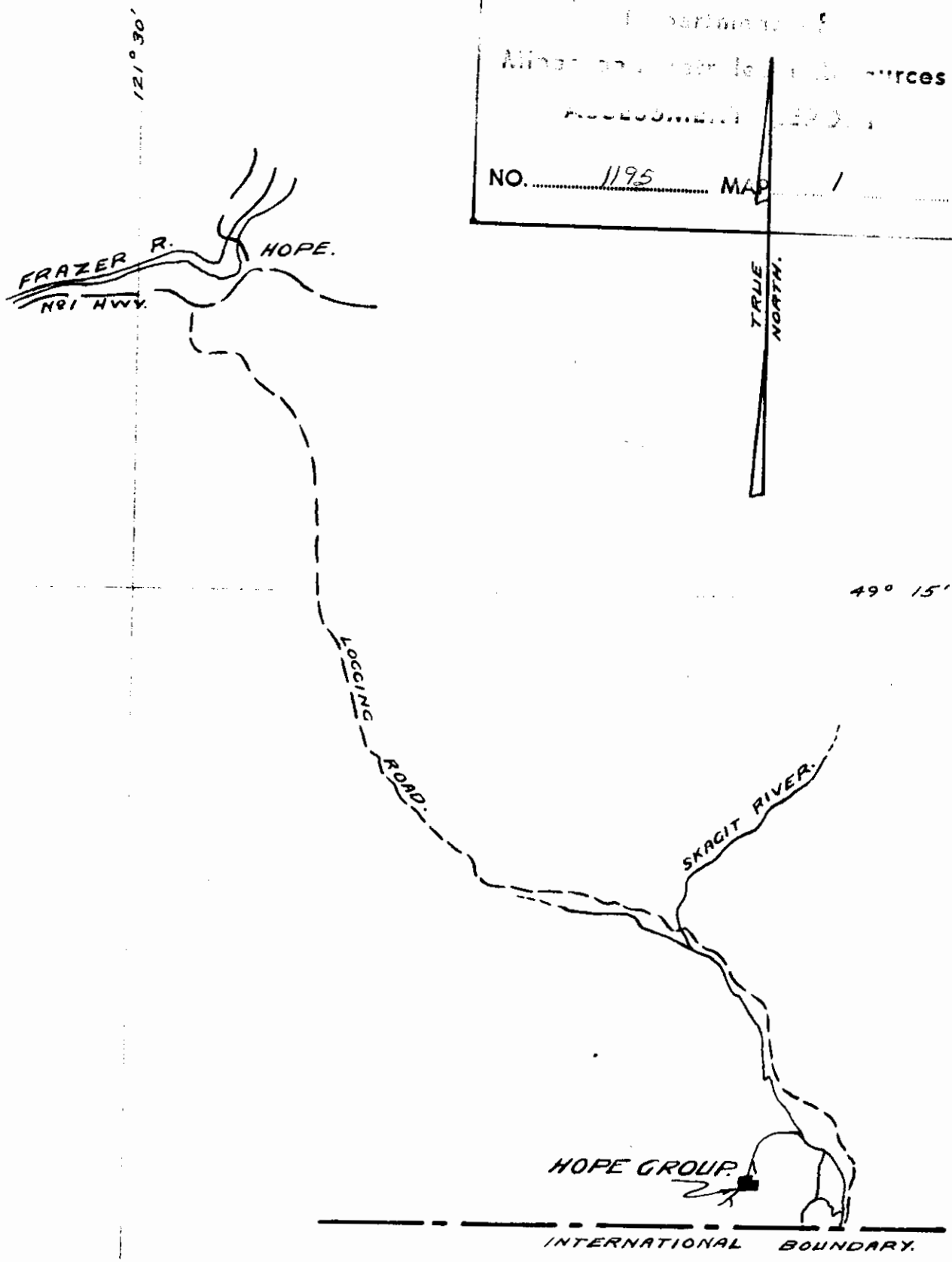
The claims have been staked and recorded in two groups to form one contiguous block of 35 claims. These are listed below:

Claim Name	Record No.	Expiry Date
Hope 1 - 16	18464 - 18479	February 13, 1968
Ann 1 - 10	712800 - 08	June 20, 1968
Ann 13	Tag 712827	June 20, 1968
Ann 14 - 20	Tag 636652 - 08	June 30, 1968
Ann 1 Fr	Tag 855848	October 3, 1968

There is an undetermined amount of overlap between the Hope Group and another group to the north. For this reason Hope Nos. 8 and 10 have been omitted from the claim sketch following ~~this~~ page 3.

Bomarc Mining Co. Ltd., 404 - 510 West Hastings Street, Vancouver 2, B. C. is now the recorded owner by bills of sale.

49° 121 S.E.



BOMARC MINING CO. LIMITED (NPL)		
HOPE GROUP.	SKAGIT VALLEY.	LOCATION SKETCH.
1" = 4 MI.	JUNE 4, 1967.	J.L.

HISTORY:

This prospect is mentioned in Reports of the Minister of Mines, B. C. as being owned by a Mr. A. Robinson, Vancouver, B. C. in 1929 and 1930. At that time, some surface trenching was done and a 300 foot tunnel was driven below the main surface exposure.

In 1938 Charlie Howlett, et al, Hope, B. C., were the owners. There is no record of this latter group having continued the exploration.

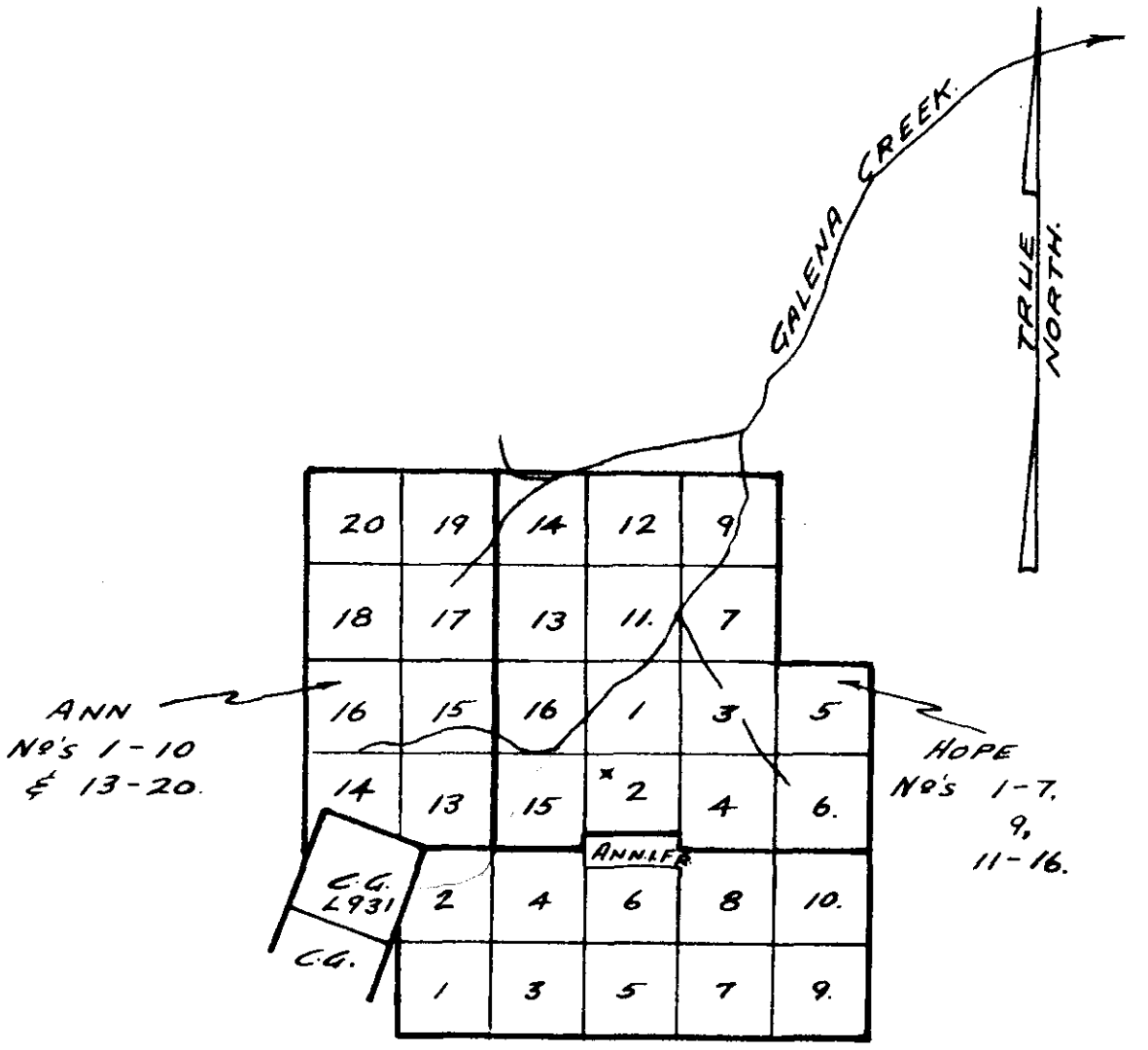
Since 1938 the showings have been covered at various times by the outlying claims of groupings centered around other mineral exposures.

Previous names for this showing are Silent Friend and Sunset.

GENERAL GEOLOGY:

C. E. Cairnes, on G.S.C. Map Sheet 737A, reports that the chief rocks underlying the Hope Group area are Hozameen sediments and volcanics of Carboniferous or Permian times. Rock types include chert, argillite, phyllite and limestone, intercalated with greenstone and volcanic breccia.

A dyke-like body of granodiorite intrudes the sediments and volcanics along a northwest trend about 3,000



INTERNATIONAL BOUNDARY.

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. 1193 MAP 2

BOMARC MINING CO. LIMITED.		
HOPE GROUP.	SKAGIT VALLEY	CLAIM SKETCH
1" = ½ MILE.	OCT 22, 1967	J.L.

feet north of the sulphides. This some rock can be seen as small masses in the bluffs on Galena Creek within 1,000 feet northeast of the mineral exposure.

LOCAL GEOLOGY:

Locally, the rocks appear to be waterlain sediments and volcanics. Theoretically, during volcanism the waters become over-saturated with lime and silica dissolved from the settling ash particles and lava flows. The result is that appreciable amounts of chert and calcium carbonate deposit within the layers of ash. The present day assemblage is now basalt, the lava, cherty greenstone, the ash, and bedded, cherty limestone. The general strike is northeast with a steep westerly dip. The cherty greenstone is chiefly to the west of, or above, the more limey beds. The limey beds, with some greenstone, is west of, or above, the basalt.

The sulphides and associated alteration minerals have localized in limestone along minor shearing that roughly parallels the bedding. Above the showings the writer noted a distinct flattening of the beds from 30 to 40 feet across the dip, giving the appearance of a monoclinal roll. This second structure could account for the minor, sub-parallel shearing.

MINERALIZATION AND ALTERATION:

The deposit has the mineralogy and coarse texture of contact metamorphism. Sphalerite, lesser chalcopyrite, and minor galena are the principal ore minerals. These, along with specularite, magnetite, and pyrite are intimately mixed in a lime-silicate zone of garnet, quartz, epidote and carbonate. These minerals replace the hangingwall side of a limestone bed for a true width of 35 feet. Disseminated mineralization reaches out toward the footwall for at least another five feet.

Light brown limonite coats the entire surface exposure along with lesser amounts of green malachite and white zinc oxide.

SAMPLING:

The 1938 Minister of Mines Report published values for two selected specimens. Bethex Explorations Ltd. gave the writer the assay results for a 45 foot sample taken by one of their personnel during 1966. The writer cut one sample on June 6, 1967, eleven more on July 13, 1967 and another set of three were cut by Mr. Peter Greba, Saturn Mine Exploration Services on July 28, 1967. The following table is a summary of the assay results for all these samples:

No.	Width	Au O/T	Ag O/T	Cu %	Pb %	Zn %	Source
	Selected	Tr	0.2	Nil	-	60.6	M.M. 1938
	Selected	0.02	4.2	5.2	-	7.4	M.M. 1938
	45.0'	Tr	3.23	0.96	0.70	14.80	Bethex
	5.0(HW)	0.01	2.85	0.47	1.15	4.25	Sullivan
42655	8.0	0.02	1.50	1.40	0.40	3.65	"
42656	8.0	0.02	1.75	1.55	0.73	4.50	"
42657	8.0	0.01	0.40	1.20	0.10	23.60	"
42658	5.0	0.01	0.45	0.80	0.05	9.00	"
42659	7.0	0.01	0.65	0.30	Tr	4.05	"
42660	5.0	0.005	0.70	0.27	Tr	4.30	"
42661	7.0	0.02	1.10	0.45	Tr	6.35	"
42662	6.0	0.03	0.25	0.25	0.40	2.80	"
42663	9.0	0.01	2.40	1.45	0.65	5.75	"
42664	8.0	0.005	0.50	0.25	0.25	2.07	"
42665	9.0	0.01	1.00	0.79	0.26	6.61	"
7702	3.0	0.005	0.60	0.06	0.07	2.46	Greba
7703	3.0	0.01	0.80	0.12	0.08	3.54	"
7705	3.0	0.005	0.40	0.08	0.04	0.56	"

The numbered samples are located on the surface plan following this page. Although samples 42655 to 42664 cover a length of 80 feet, the true width of the deposit on this line is 40 feet.

GEOPHYSICAL SURVEY:

Because magnetite is closely associated with the sulphides a magnetometer was chosen as the instrument to be used for tracing the deposit under the overburden. The instrument was a Sharpes FM-1 fluxgate magnetometer designed to measure the earth's total magnetic field.

A 2,800 foot baseline was cut bearing N 23° E with 1,200 north of the main showings and 1,600 feet south. Cross-lines were spaced 400 feet apart with stations at 100 foot

intervals. Three 800 foot lines were cut parallel to the base between crosslines 2 south and 10 south. The lineal length for the grid lines totals 16,800 feet.

The baseline was read with the magnetometer at 100 foot intervals and corrected for time differences. Then the crosslines were read in the same manner and adjusted when necessary, by tying back into the base stations.

There is a plan of the survey in the holder at the back of this report.

GEOCHEMICAL SURVEY:

The hillside around the showings is step-like in appearance. Rock bluffs reach up from five to thirty feet with relatively flat areas of overburden on top. This gives small areas of outcrop and large areas of overburden when viewed in plan. So, like the magnetometer, geochemistry was used for tracing the deposit under the overburden. Soil samples were taken at the same points where the magnetometer was read, with the exception of line 6 North. Each sample was sent to a laboratory to be tested for the presence of copper and zinc.

There was no particular depth at which the soil samples were taken. The rule was: obtain sufficient clay

for a test regardless of the depth of hole dug. Humus was screened out at the laboratory. The metal ions were extracted by hot metric acid and the determinations made by atomic absorption. The analysts were T.S.L. Laboratories Limited, 325 Howe Street, Vancouver 1, B. C.

There is a plan of this survey in the holder at the back of this report.

GEOLOGICAL SURVEY:

To aid in the interpretation of the magnetometer and geochemical results, the rock exposures and elevations were recorded along the grid lines. This data was to be used to illustrate changes in the gamma count due to changes in rock type or elevation. Also, the topograpny would show areas where geochemical anomalies would be expected to broaden on the down-hill side.

The information from this work has been plotted on the same scale as the magnetometer and geochemistry and has been included in the back map holder.

CONCLUSIONS:

The assay results show attractive amounts of zinc with lesser values in copper, silver, and gold. The true width, 40 feet, is narrow for the grade of material but it is wide enough to place the showings in the class of being a good starting point to look for a larger deposit.

The three surveys, which originated at the main showing, combine to illustrate several points. Any difference in magnetic susceptibility between the greenstone and the basalt is masked by a stronger source. Since the mineralization and exposed rock units are not the chief source of the magnetic high, then the strength is probably due to the structural surface of a granodiorite basement. For, granodiorite is exposed in nearby areas but off the map sheets, and much granodiorite float is present in and around the anomalous area itself.

The magnetic depression through the baseline at #2 is probably due to the magnetic axis of the strongest source plunging southerly. Further, where the magnetic contours converge on line 18S and again 200 feet southeast of S2 are likely the two points where the intrusive is closest to the surface.

The limestone and known mineralized showings are in relatively low magnetic areas but close to the magnetic

highs. However, the geochemical high counts are localized in the same areas as the magnetic highs, but broaden their areal extent when the magnetic readings begin to decline.

All the above points suggest the presence of a granodiorite body close to the surface in the southeast quadrant of the area surveyed, and that the copper and zinc mineralization extends beyond the surface exposures staying close to the surface of the intrusive body.

RECOMMENDATIONS:

With the exception of a little more prospecting to the south of line 14S the writer feels this prospect has reached the drilling stage. An effort should be made to determine the economic possibilities of the metals creating the geochemical anomalies. Since the surface of the inferred basement rocks appears to have some influence on the localization of the sulphides the writer proposes two drill areas where this basement appears to be closest to the surface, at the main showings on line 52 east and along the location line of the Ann No. 1 Fraction.

The camp responsibilities would be left to the diamond drill contractor with the "Bomarc Company" assuming responsibility for mobilization, demobilization, drilling plan, and drill moves.

Probably 2,500 feet of drilling in both areas

recommended would supply sufficient information to prove or disprove the economic potentials of the deposit.

COST OF THE RECOMMENDED WORK:

Heliport	$ 1,000.00
Mobilization and demobilization: Total 20 helicopter hrs. @ $140.00/hr.	2,800.00
Interim flying - 30 hrs. @ $140.00/hr.	4,200.00
Drilling contract: 5,000 feet @ $7.00/foot	35,000.00
Drilling extras @ 15 percent	4,250.00
Core splitting, core boxes, and assaying	3,000.00
Engineering and related supplies	3,000.00
Additional travel expenses	2,000.00
	$55,250.00
Contingencies @ 10 percent	5,525.00
Total recommended appropriation	$60,775.00
Say	$61,000.00

Respectfully submitted,

Jos. Sullivan, P. Eng.

October 23, 1967

C E R T I F I C A T I O N

I, Joseph Sullivan of the City of Vancouver, Province of British Columbia, hereby certify as follows:

(1) I am a geological Engineer residing at:

#5 - 2116 West 39th Avenue
Vancouver 13, B. C.

(2) I am a registered Professional Engineer of British Columbia. I graduated from the University of British Columbia in 1951 with a B.A.Sc.

(3) I have practiced my profession for sixteen years.

(4) I have no interest, direct or indirect in the properties or securities of Bomarc Mining Co. Ltd.

(5) The above report is based on two months work on the project by myself, plus all the engineering data available in the reports by the Geological Survey of Canada and the Minister of Mines, B. C.

(6) The following posts were examined and found to be in accordance with the requirements of the B.C. Mineral Act:

Initial Posts	Final Posts
Hope Nos. 1, 2, 3, 4, 5, 6, 15, 16.	Hope Nos. 1, 2, 3, 4, 15, 16.

DATED at Vancouver, B. C., this 23rd day of October, 1967.

Joseph Sullivan, P. Eng.

SATURN
MINING & EXPLORATION SERVICES LTD.
No. 510 - 850 WEST HASTINGS STREET, VANCOUVER 1, B.C. - 688-1939

July 11, 1967.

Mr. J. Sullivan
c/o A. N. Stewart
510 West Hastings Street,
Vancouver 2, B. C.

Dear Sir:

Re Hope Group Bomarc Mining Co. Ltd. Following our recent conversation concerning the above property I have prepared the following outline.

Saturn Mining & Exploration will undertake to do the following:

(a) Cut baseline and grid lines for geophysical work (100 ft. centres corrected for each 5 degree of slope).

(b) Carry out a magnotometer survey (MF-1) on the above grid with altimeter readings at each station.

(c) Carry out soil sampling along lines as directed.

(d) Prepare maps of the above work.

(e) Carry out "line - mapping" of geology.

(f) Provide all crew and equipment necessary for the above job.

Saturn will not be responsible for helicopter transportation necessary in this job.

All work will be carried out under the direction of Mr. J. Sullivan P. Eng. For the purpose of this extimate the price is based on 7.5 line miles @ $240.00 per line mile. The job will be commenced on payment of 50% of cost ($780.00). The client will be responsible for all assessments made under the Forest Damages Act.

Yours truly,

David S. Barclay

SATURN
MINING & EXPLORATION SERVICES LTD.
No. 510 - 850 WEST HASTINGS STREET, VANCOUVER 1, B.C. - 688-1939

BOMARC MINES LTD. (N.P.L.)

Hope Project

Cost Breakdown of Magnetometer, Soil Sampling and Linecutting.

Project completed - 3 miles of line cut, chained and picketed at 100' intervals, surveyed by manetometer and soil sampled.

Instrument employed - Sharpe M.F.-1

Personnel employed on Property
(from July 12 to July 31, 1967 inclusive)

James Coyne Box 91 White Rock, B.C.	Magnetometer operator and soil sampler
Joseph Eagleson 38 Rugby Ave. Bangor, Co.Down North Ireland	Linecutter
David Douglas 12 Bramcote St. Belfast 5 North Ireland	Linecutter
Peter Gleba 3 Nottingham Drive Natick, Mass. U.S.A.	Party chief Geologist
Michael McNeice Box 705 Cloverdale B.C	Linecutter
C.L. Cory #510 - 850 West Hastings Van 1 B.C.	Draftsman

DLB

SATURN
MINING & EXPLORATION SERVICES LTD.
No. 510 - 850 WEST HASTINGS STREET, VANCOUVER 1, B.C. - 688-1939

Cost Breakdown

Line cutting (includes chaining & picketing)	
3 miles @ $150.00 per mile	$ 450.00
Magnetometer & Soil Sampling (includes reading of magnetometer at 100 ft. spacing, soil sampling of "B" Horizon, topgraphic survey (altimeter) of grid and plotting of results)	
3 miles @ $110.00 per mile	330.00
	$ 780.00

TSL Laboratories Limited
325 HOWE STREET - VANCOUVER 1, B.C.
TELEPHONE 688-3504
ASSAYERS
CHEMISTS
GEOCHEMISTS

CHARGE TO

Bomarc Mining Co.
2116 West 39th Avenue
Vancouver, B.C.
ATTN: MR. I. J. SULLIVAN

INVOICE NUMBER

2369

SHIPPED TO:

DATE:	REFERENCE NO.: V-2602			YOUR ORDER NO.:
	SHIPPED: / VIA:	TERMS: NET 30 DAYS	UNIT PRICE	TOTAL
August 14/67	17 Rock Samples assayed for Au,Ag,Cu,Pb & Zn No's 7702 to 7716 (Inclusive) No's 7745 & 7746			$280.50

Pd ... /67

This invoice not paid as it is offset by attached C/N

[illegible]

7/52 ...

DUE AND PAYABLE WITHIN 15 DAYS

T S L Laboratories Limited

325 HOWE STREET - VANCOUVER 1, B.C.
TELEPHONE 688-3504

ASSAYERS
CHEMISTS
GEOCHEMISTS

CHARGE TO

Bomarac Mines
c/o Mr. J. Sullivan
2766 West 3rd Avenue
Vancouver, B.C.

INVOICE NUMBER

2813

SHIPPED TO:

DATE:	REFERENCE NO.:		YOUR ORDER NO.:	
	V-3005			
Oct. 4/67	SHIPPED:	VIA:	TERMS: NET 30 DAYS	UNIT PRICE	TOTAL
	92 Soil Samples for Cu & Zn				$115.00
	Preparation				$18.40
					$133.40

ck 1022. $133.40
Oct 31/67.

OK

Laboratories Limited

325 HOWE STREET - VANCOUVER 1, B.C.
TELEPHONE 688-3504

ASSAYERS
CHEMISTS
GEOCHEMISTS

CHARGE TO

Bomarc Mines
2116 West 39th Avenue
Vancouver, B.C.
ATTN: MR. M. J. SULLIVAN

INVOICE NUMBER

2316

SHIPPED TO:

DATE:	REFERENCE NO.: V-1295			YOUR ORDER NO.:	
	SHIPPED:	VIA:	TERMS: NET 30 DAYS	UNIT PRICE	TOTAL
August 8/67					
	30 Soils for Cu & Zn				$37.50
	Preparation				6.00
			TOTAL----------		$ 43.50

Rec'd. 15/8/67
J. Chapple

INVOICE

OKANAGAN HELICOPTERS LTD.
VANCOUVER AIRPORT, B.C.
TELEPHONE: 278-5502

TO

Bomarc Mining Co. Ltd. (NPL),
404 - 510 West Hastings Street,
Vancouver, B. C.
ATTENTION: Mr. J. Sullivan

Date	September 29, 1967	Invoice No.	9/512 AR 354
P.O. No.		Authority	

To charter of Hiller helicopter CF-MLV

Flying September 26, 1967, as per attached report

3 hours 15 minutes @ $140.00 per hour	$455.00

Less!
Ferry trip 370.00
Balance due = 85.00

DUE AND PAYABLE WITHIN 15 DAYS

OKANAGAN HELICOPTERS LTD.

VANCOUVER AIRPORT, B. C.
TELEPHONE: 278-5502

TO

Bomark Mines Ltd.,
404 - 510 West Hastings Street,
Vancouver 2, B.C.

Date July 31, 1967 Invoice No. 7/524 AR-354

P.O. No. Authority

To charter of Hiller helicopters CF-MHB
and CF-MLV

Flying July 26 and 31, 1967, as per attached
reports

5 hours @ $140.00 per hour $700.00

Less:
Ferry 1 hr 270.00
" " 140.00 510.00

Balance Appl'd $190.00

DUE AND PAYABLE WITHIN 15 DAYS

Ck 1003

OKANAGAN HELICOPTERS LTD.
VANCOUVER AIRPORT, B.C.
TELEPHONE: 278-5502

TO

Bomark Mines Ltd.,
404 - 510 West Hastings Street,
Vancouver, B. C.

Date	August 16, 1967	Invoice No.	8/141 AR-354
P.O. No.		Authority	

To charter of Hiller helicopter CF-MHB

Flying July 12, 1967, as per attached report

1 hour 30 minutes @ $140.00 per hour	$210.00

DUE AND PAYABLE WITHIN 15 DAYS

Ch 1004
Sept 1/67.

OKANAGAN HELICOPTERS LTD.

VANCOUVER AIRPORT, B. C.
TELEPHONE: 278-5502

TO

Bomark Mines Ltd.,
404 - 510 West Hastings Street,
Vancouver, B. C.

Date July 19, 1967 | Invoice No. 7/158 AR - 354

P.O. No. | Authority

To charter of Hiller helicopter CF-MHB

Flying July 12, 1967, as per attached report

1 hour 25 minutes @ $140.00 per hour	$198.34	
Less adjustment as per tariff rule 53 (d)	.34	$198.00

DUE AND PAYABLE WITHIN 15 DAYS

Paid Cheq 24/67.
Ch #

THE GOVERNMENT OF
THE PROVINCE OF BRITISH COLUMBIA

DEPARTMENT OF MINES
AND PETROLEUM RESOURCES

MINERAL ACT
FORM B

SUB-MINING RECORDER
PENTICTON, B.C.
M.R. # 17814-E, 166, 15
VANCOUVER, B.C.

Affidavit on Application for Certificate of Work

I, Joseph Sullivan (Name) Agent for Bomarc Mining Co. Ltd. (Name)

#5 - 2116 West 39th Ave. (Address) 404-510 West Hastings Street, (Address)

Vancouver 13, B. C. Vancouver 2, B. C.

Free Miner's Certificate No. 66130 Free Miner's Certificate No. 65208

Date issued June 16, 1967 Date issued 24 July 1967

make oath and say:—

I have done, or caused to be done, work on the Hope 1 - 16 Mineral Claim(s)

Record No.(s) 18464-79

situate at Galena Creek, 29 airmiles S.E. of the Town of Hope,

in the New Westminster Mining Division, to the value of at least

$3,300.00
~~xxxxxx~~ one hundred dollars, since the 13th day of February, 19 67

The following is a detailed statement of such work:—
(Set out full particulars of the work done in the twelve months in which such work is required to be done.)

Geological, geophysical and geochemical surveys totalling $4,130.88

I wish to apply 80 percent of this total or $3,300.00 to the Hope Group of claims and will apply for the remaining 20 percent for the Ann Group at a later date.

I wish to have the work distributed as follows:

$200.00 on each of the Hope Nos. 1-16 M.C. and an additional $100.00 on the Hope No. 2 M.C.

MINING RECORDER
RECEIVED
FEB 19 19[illegible]
M.R.# $
NEW WESTMINSTER, B.C.

That I have not and will not use the work declared herein in any way for the ~~purposes~~ of obtaining tax exemption on a Crown-granted mineral claim under the terms of the *Taxation Act*.

SWORN and subscribed to at VANCOUVER, B.C.

this day of

19, before me—

*

Sub-Mining Recorder

Jos Sullivan

* This affidavit may be taken by a person empowered to take affidavits by the *Evidence Act* of British Columbia.

0

DOMINION OF CANADA:

SATURN MINING & EXPLORATION SERVICES LTD.
#710 - 850 West Hastings Street
Vancouver 1, B.C.
Phone 688-1939

OUR NUMBER 65582
DATE July 13/67
CUSTOMER'S ORDER
SALESMAN
TERMS
F. O. B.

SOLD TO Bomac Mining Co. Ltd
#702 - 510 West Hastings St
SHIPPED TO
ADDRESS VIA

INVOICE

	For 50% of Hope group contract (Mr. J. Sullivan) see letter to Mr. (Sullivan) Line cutting magnetometer and soil sampling	750.00
	Received Cheque July 14/67 A.S.P.	

BLUELINE D 32

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 12th day of February, 1968, A.D.

Joe Sullivan

Sub-mining Recorder

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

★0

ASSESSMENT WORK - HOPE GROUP - BOMARC MINING CO. LTD.

Item	Dates	Amount	Paid To	Charged to: Geology	Geo-Chemical	Geo-Physical
	1967					
J. Sullivan, P. Eng. Days on project = 20 @ $100.00/day	July 12, 13, 14, 15, 18, 23, 25, 26, 31, Sept. 26-30 incl. Oct. 18-22 incl.	$2,000.00	J. Sullivan, Vanc. B.C.	$1,000.00	$ 500.00	$ 500.00
Jim Coyne, Mag. Operator	July 12-31 Sept 26-30		Saturn Mining and Exploration			
J. Eagleson, Line Cutter	July 12-31		510 - 850 West Hastings St., Vancouver 1, B. C.			
D. Douglas, Line Cutter	July 12-31		Paid on a line mile basis as per attached billing			
P. Gleba, Geologist	July 26-31					
M. McNeice Line Cutter	Sept. 26-31					
C. L. Cory, Draftsman	Aug. 2-7					
	Oct.	780.00		260.00	260.00	260.00
Assaying	Sept. 15-Oct. 31	457.40	T.S.L. Lab., Vanc., B.C.	43.50	413.90	
Transportation less ferrying	July 12, 26, 31, Sept. 26, 30	893.00	Okanagan Hel., Vanc. B.C.	297.66	297.66	297.66
TOTALS				$1,601.16	$1,471.56	$1,057.66

№1 POSTS
40 FEET.
S HOPE №1 M.C.

HOPE №2 M.C. — — — — APPROXIMATE CLAIM LINE. — — — —

TRUE NORTH.

4800

S-4

S-3.

SECTION A-A

№2 POST
702398.

BASE LINE

0-0

massive magnetite

S-1

DUMP.

S-2

ADIT.

S-11

ADIT OUTLINE?

S-10

2-3" sulphide.

4850

S-5

b.c.

lp.

S-9

4900

heavy specularite

7702
7703
7705

S-6

42665
42664
42663
42662
42661
42660
42659
42658
42657
42656
42655

S-8

SAMPLES WERE CUT ON A LINE FROM S-7 TO S-6.

STUB.

S-7

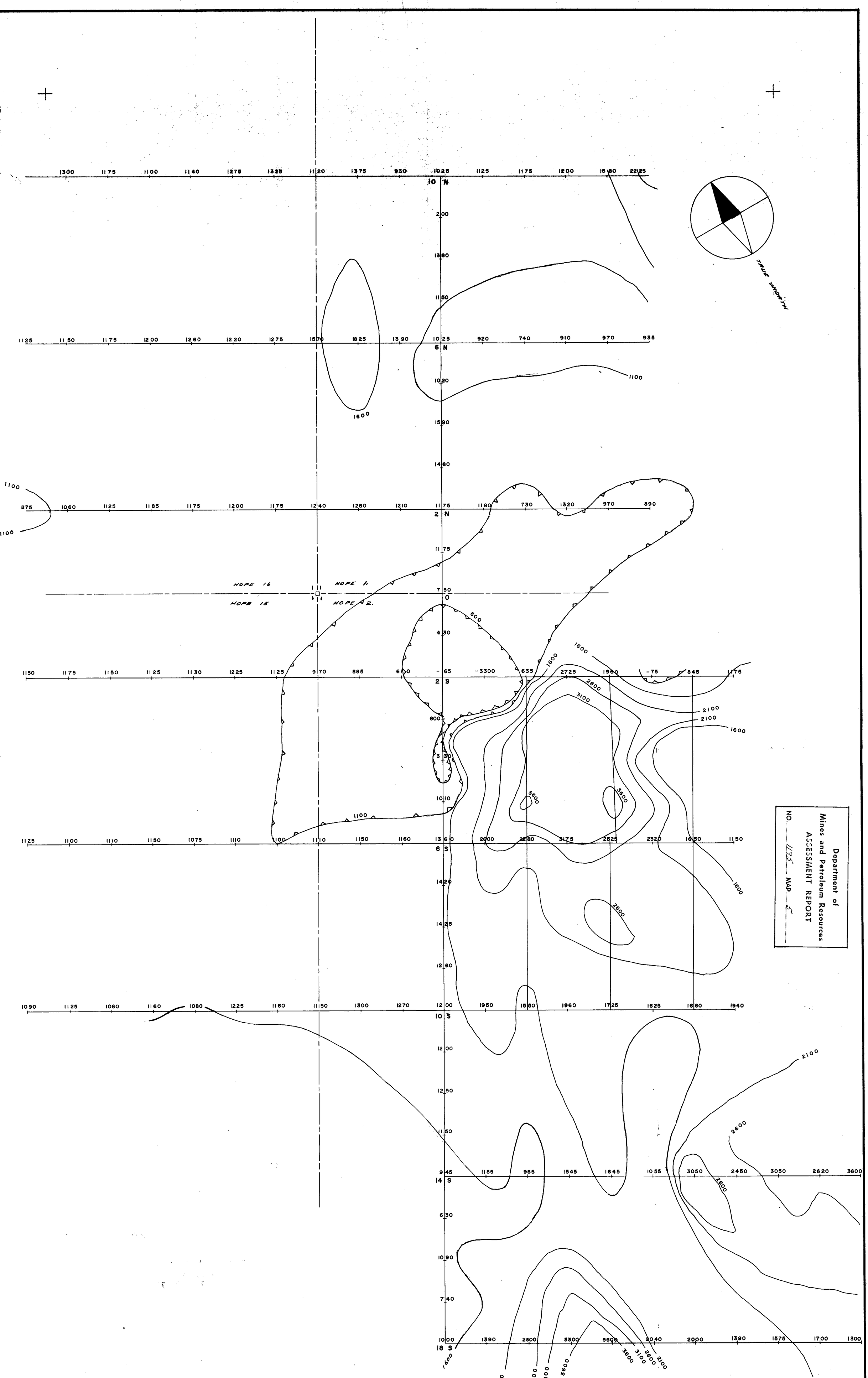
LEGEND.

- SK. — LIME-SILICATE ZONE WITH SULPHIDE.
- ls. — LIMESTONE
- lp. — LAMPROPHYRE
- bc. — BLACK CHERTY ARGILLITE
- ROCK OUTCROP.
- BEDDING, DIP & STRIKE.

1195

BOMARC MINING CO. LTD.		
HOPE GROUP.	HOPE B.C.	SURFACE PLAN.
1" = 20'	JULY 16, 1967.	J.L.

1195



TRUE NORTH

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 1195 MAP 5

1195

To accompany geological report by J. Sullivan, P. Eng.
on the Hope Group, on Galena Creek, New Westminster M.D. dated Oct. 23, 1967.

Jos. Sullivan.

BOMARC MINES LTD. Magnetometer Survey	
Designed by J. Sullivan	Scale 1" = 100'
Drawn by C.L.C.	Date Oct. 6, 1967
Revised	N.B. CONTOURS ARE GAMMAS

10 N

15 19 | 15 20 | 2 7 | 17 8 | 13 11 | 2 10 | 2 13 | 3 5 | 25 28 | 7 9 | 70 1100 | 24 20 | 9 24 | 5 8 | 8 14

6 N

16 32

5 12

14 56

18 35 | 13 20 | 15 14 | 8 7 | 10 10 | 20 40 | 5 10 | 4 15 | 18 94 | 2 4 | 15 21 | 15 170 | 13 27 | 13 15 | 15 30 | 4 15

2 N

HOPE 16. HOPE 1.

HOPE 15. HOPE 2.

0

25 25 | 35 55 | 15 110 | 3 2 | 11 6 | 4 2 | 4 2 | 5 8 | 5 13 | 15 26 | 160 | 33750 25000 | 28750 | 70 96 | 35 55 | 20 48 | 50 58 | 27 13 | 12 6

2 S

25 89

16 46

14 49

12 18 | 29 35 | 8 10 | 18 5 | 8 10 | 13 14 | 11 18 | 33 60 | 42 60 | 11 9 | 14 42 | 8 11 | 3 6 | 15 14 | 39 70 | 12 27 | 57 80 | 36 25

6 S

13 38

16 37

34 76

18 40 | 14 20 | 8 9 | 6 4 | 27 15 | 18 52 | 40 105 | 39 92 | 32 62 | 7 13 | 25 170 | 60 275 | 10 140 | 13 175 | 28 230 | 58 98 | 29 61 | 13 17

10 S

11 34

6 50

6 57

7 70 | 6 150 | 10 85 | 11 80 | 11 65 | 14 95 | 12 90 | 13 25 | 5 40 | 11 45 | 5 11

14 S

14 70

11 27

16 70

4 11 | 25 55 | 13 26 | 9 23 | 7 23 | 50 85 | 23 62 | 30 65 | 25 65 | 30 90 | 48 83

18 S

100ppm

50ppm

150ppm

100ppm

50ppm

100ppm

150ppm

100ppm

50ppm

9 F.R.

F.R.

LOCATION LINE AND L.P.

LEGEND.

Cu Zn Cu Zn Parts per Million

19 51 — 14 42 SAMPLE POINTS.

CONTOURS ARE A TOTAL OF THE CU. AND ZN.

TRUE NORTH

Department of Mines and Petroleum Resources

ASSESSMENT REPORT

NO. 1195 MAP 6

1195

To accompany geological report by J. Sullivan, P. Eng. on the Hope Group, on Galena Creek, New Westminster M.D. dated Oct 23, 1967.

Jos. Sullivan

BOMARC MINES LTD. Geochemical Survey

Designed by J. Sullivan	Scale 1" = 100'
Drawn by C.L.C.	Date Oct. 4, 1967
Revised	

Basalt O/C
Greenstone Flt.
Basalt Flt.
Granodiorite Flt.
Basalt Flt.
Granodiorite Flt.
10 N
Greenstone
Greenstone Flt.
Greenstone Flt.
O/C 30'
Greenstone Flt.
O/C Approx 20'
Greenstone O/C
Granodiorite Flt
Basalt Qtzite Flt.
Granodiorite Por. Flt.
6 N
Greenstone Flt.
Greenstone Flt.
Granodiorite Por. Flt.
4400
4450
4500
4550
4600
4650
4700
4750
4800
TRUE NORTH.
siliceous brecciated greenstone
2 N
greenstone
limestone
greenstone & chert
HOPE 16.
HOPE 1.
CLAIM LINE
HOPE 15
HOPE 2.
0
Y ADIT
limestone
main showings
2 S
Limestone
Skarn
Basalt 80°
Basalt 75°
Basalt Flt.
4850
4900
4950
5000
5050
5100
5150
5200
5250
Basalt Flt.
Basalt Flt.
Basalt Flt.
Basalt Flt.
Basalt Flt.
Basalt Flt.
Basalt Flt.
Basalt Flt.
Granodiorite Flt.
Granodiorite Flt.
6 S
Basalt
Basalt
82 Basalt
Granodiorite Flt.
PIT 6 x 3 x 2
Greenstone Flt.
Greenstone Flt.
Greenstone Flt.
Greenstone Flt.
Granodiorite Flt.
Greenstone
Greenstone O/C
PIT 6x3x3 spec in Skarn & limestone
PIT 3x2x1
10 S
Greenstone Flt.
Greenstone O/C
14 S
F.P.
BASE LINE
LOCATION LINE ANN L.FR.
I.P.
18 S

LEGEND.

80° STRIKE & DIP OF BANDING.

OUTCROP AREA

Flt. FLOAT.

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 1195 MAP 4

1195

To accompany geological report by J. Sullivan, P. Eng. on the Hope Group, on Galena Creek, New Westminster M.D. dated Oct. 23, 1967.

Jos. Sullivan.

BOMARC MINES LTD. Geology

Designed by J. Sullivan	Scale 1" = 100'
Drawn by C.L.C.	Date Oct. 2, 1967
Revised	MR. P. GREBA. GEOLOGIST.