

REPORT ON THE
MAGNETOMETER SURVEY
FOR *AND EXPLORATION*
B. & B. MINING [^]LIMITED
CORKY GROUP *49°55' - 120°35'*
NICOLA MINING DIVISION
July 20, 1966 *92H/5E* S. W. Evans

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A REPORT ON THE
CURRY GROUP OF B AND F MINING AND EXPLORATION LIMITED,
NICOLA MINING DIVISION
BRITISH COLUMBIA



S. W. EVANS, B.A. Sc., P. Eng.
Mining Geologist

Vancouver, B. C.

July 20th, 1966.

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SUMMARY

The 15 claim Corby Group of B and B Mining and Exploration Limited is located to the east of Highway No. 5 just north of Aspen Grove and is approximately 20 miles north of the Town of Merritt, Kamloops District, B.C. The property is favorably located within the Nicola Group greenstones that are host to numerous metal occurrences. The geological environment of the Corby Group is favorable to ore deposition. Excellent grade copper samples can be observed on the old dumps at the adit portals, and copper mineralization can be observed at several other locations on the property.

A systematic (initial) exploration program has been recommended. This program includes, geological mapping (including examination of the old adits), sampling, a geochemical program, and a magnetometer survey. After assessment of the above program results, consideration can be given to a follow-up geophysical program on which testing by diamond drilling can be based.

The old history of the property is obscure but at least 3 adits exist as well as numerous old trenches and pits. It is reported that the major portion of this work was done about 60 years ago. Re-assessment of the old workings is warranted and in view of the scattered disseminated copper mineralization observed, we must consider the potential for the existence of larger tonnages of low grade copper ores which at present metal prices are economically attractive.

INTRODUCTION

B and B Mining and Exploration Limited has acquired 15 mining claims in the Aspen Grove Area, Nicola Mining Division, B.C.

This copper prospect has numerous old pits and trenches scattered throughout the property and at least 3 adits were driven along fracture-fissure systems where copper concentrations exist. However, due to the widely scattered copper mineralisation observed on the property this report must consider an overall initial exploration program rather than concentrating the exploration efforts on the known fracture-fissure enrichments.

Several mining companies are working in the area at the present time and modern prospecting methods are being applied.

PROPERTY AND LOCATION

The Corky Group of B and B Mining and Exploration Limited, consists of 15 contiguous mining claims in the Aspen Grove area, of the Nicola Mining Division, Kamloops District, British Columbia. They are detailed as follows:

<u>CLAIM NO.</u>	<u>TAG NO.</u>
Corky #1	606240
Corky #2	606241
Corky #3	606242

.....Cont'd

<u>CLAIM NO.</u>	<u>TAC NO.</u>
Corky #4	606243
Corky #5	606244
Corky #6	606245
Corky #7	606246
Corky #8	606279
Corky #9	606280
Corky #10	606281
Corky #11	606282
Corky #12	606283
Corky #13	594900
Corky #14	594901
Corky #15	594902

The claims are located approximately 1 mile east of the Merritt Princeton Highway at a point approximately 20 miles south of the Town of Merritt. From this highway, 2 miles north of the Aspen Grove store, a gravel road trends south east for a distance of 2 miles onto the Corky Group. There are many old logging roads that provide access to the south end of the claims.

DESCRIPTION OF PROPERTY

Topographically the group is divided into two sections. The northern six claims are generally covered with overburden and quite level.

The central portion of the group rises quite steeply (600 feet) levels off to the southern end of the property and then falls abruptly. There is reasonably good rock exposure over the southern mine claims.

HISTORY OF THE PROPERTY AND RECENT WORK

The Aspen Grove Area has been subjected to intermittent prospecting and development over a period of approximately 70 years. Trenches, pits, adits are common in the locale. Copper has been the major metal of interest.

The factual history of the Corky Group is limited. There are numerous old pits and trenches, and three adits with a total length of approximately 600 feet exist on claim Corky #2. A fourth adit is reported on Corky #11 but to date this has not been located. It is believed that this work was done about 60 years ago. There has also been some recent bulldozing and perhaps 3 short diamond drill holes for assessment purposes exists. There is no record of the results of this work.

At the time of the examination B and B Mining and Exploration Limited were completing a north-south baseline and had started an east west grid system at 500 foot intervals.

This interval is somewhat large but where not considered adequate intermediate lines at 250 foot intervals should be completed.

In recent years the area has been rejuvenated and considerable exploration work using modern prospecting methods is underway in the area.

GEOLOGY

The property is underlain by the metamorphosed rocks of the Nicola Group, Triassic Period. The southern section of the group contains large exposures of basalt porphyry richly impregnated with hematite. Adjacent to this iron rich horizon, cherty andesite porphyry is common. Phenocrysts of quartz and epidote are associated. Hornblende andesite porphyry was also observed.

Fine to medium grained flow breccias occupy the central sector of the property and probably extend under the overburden covering the northern six claims. This breccia is fractured, and is generally very siliceous and in many cases the brecciated nature is obscure. Many of the fractures are filled with quartz, epidote and travertine. It is within this unit that the economic ore minerals occur.

A strong regional fault zone which might be identified as the Allison Lake fault system parallels the property to the west.

MINERALIZATION

As previously stated, the flow breccia unit is considered to be the significant ore mineral host. Mineralization occurs along fracture-fissure trends and is also scattered throughout the breccia. Ore minerals observed include chalcopyrite, pyrite, bornite, chalcocite and cuprite. Specular hematite is also quite common and is generally finely disseminated. It is therefore very easy to confuse chalcocite disseminations with the hematite and in certain cases assay results of this material will provide determinative information.

Although copper mineralization is scattered through the host rock it was along the fracture-fissure zones, where the mineralization was concentrated, that the old adits were driven. Persistence of mineralization in length and depth along these structural features is unknown at the present time.

Two main fracture systems were observed at the No. 2 adit entrance. One striking North to South, dipping 53° east the second striking N 21° W, and dipping 50° west. There are also strong transverse.

An important alteration feature of the mineralized areas is the very siliceous nature of the flow breccia.

CONCLUSIONS AND RECOMMENDATIONS

The Corky Group is located in an area of numerous metal occurrences and has a favorable geological environment to ore deposition. Copper mineralization is not confined to the enriched fracture-fiasure systems but is widespread. A comprehensive initial program is warranted and follow-up geophysics and diamond drilling can be considered and based upon the initial results.

The following recommendations are tabulated:

- 1) Complete the line grid as started but cut intermediate lines at the 250 foot interval over the northern 6 claims.
- 2) Map the property geologically on the line grid, trying in all the old pits, trenches and adits.
- 3) Wash down the adit walls so that they can be mapped geologically.
- 4) Sampling of the old adits and trenches where necessary.
- 5) Geochemical survey; soil samples to be taken on grid lines at 300 foot intervals.
- 6) Magnetometer survey: It is postulated that this work will aid in the geological interpretation and outline the flows braccia horizon under the overburden in the northern sector.
- 7) Follow-up geophysics and diamond drilling should be based on the results of the initial program.

COST ESTIMATES

a) Linecutting, intermediate lines	\$ 400.00
b) Geological Mapping (includes adits)	1800.00
c) Adit rehabilitation and cleaning	500.00
d) Sampling	500.00
e) Geochemical Survey (does not include detail work)	1500.00
f) Magnetometer Survey (18 miles at \$75.00)	1330.00
g) Reserve for geophysical follow-up and limited initial diamond drilling	6000.00
h) Contingencies	3000.00
	<hr/>
Total	<u>\$15,030.00</u>

Respectfully submitted,

S. W. Evans

S. W. Evans B.A. Sc. P. Eng.,
Mining Geologist.



REFERENCES

- 1) Geology and Mineral Deposits of the Princeton Map-
Area, B. C. G.S.C. Memoir #243
By H.M.A. Rice - 1960

- 2) Geology and Mineral Deposits of Nicola Map-Area, B. C.
G.S.C. Memoir #249
By W.E. Cockfield - 1961

RESULTS OF THE MAGNETOMETER SURVEY

A ground magnetometer survey has been conducted over Corky 1 and 2 and Corky 11-14 mineral claims. The survey was conducted using a Sharpe PMP-1 fluxgate magnetometer over east-west lines cut at right angles to a base line. Readings of the vertical component of the intensity of the earth's magnetic field were taken every 100 feet along the lines. Field accuracy of the readings is ± 10 gammas.

The survey was conducted primarily to delineate the flow breccia underlying the central portion of the property and apparently underlying the northern portion. The somewhat sheared flow breccia unit, which is of primary economic interest, has been well delineated within the area of the survey. The magnetic intensity in these areas varies between approximately 3050 and 5800 gammas. Near the base line, between 31 + 00 S and 45 + 00 S, an elongated zone of increased magnetic intensity may indicate a slightly more mafic horizon within the metavolcanics. Irregularities in the contours over this more mafic horizon near the base line at 42 + 00 S could indicate the presence of a northwesterly trending shear zone. In addition, the trending of magnetic contours in a north-south direction near the southern portion of Corky 1 and 2 mineral claims indicates the presence of a system of northerly striking shears and/or small faults in this area. Economic mineralization associated with the northerly striking fracture-fissure zones within the flow breccia unit has been explored in the past by adits near the northwest portion of the Corky 1 claim. A more explicit interpretation of the magnetics to delineate possible extensions of zones of economic interest within the flow breccia underlying the survey area towards the north cannot be facilitated until geochemical or other information becomes available.

CERTIFICATE

I, Stephen William Evans of 29 Southwell Drive, in the Municipality of Metropolitan Toronto, Province of Ontario, hereby certify that:

- 1) I am a Mining Geologist graduating from the University of Toronto, 1951, Faculty of Applied Science with a Bachelor of Applied Science degree in Mining Geology.
- 2) I have been practicing my profession since graduation, a period of 15 years.
- 3) I am a registered member of the Association of Professional Engineers of the Province of Ontario.
- 4) I have no interest direct or indirect in the property or securities of B and B Mining and Explorations Limited nor do I expect to receive any such interest.
- 5) This report is based on personal field examinations of the property on June 25 and July 9, 1966, and on the references listed in this report.

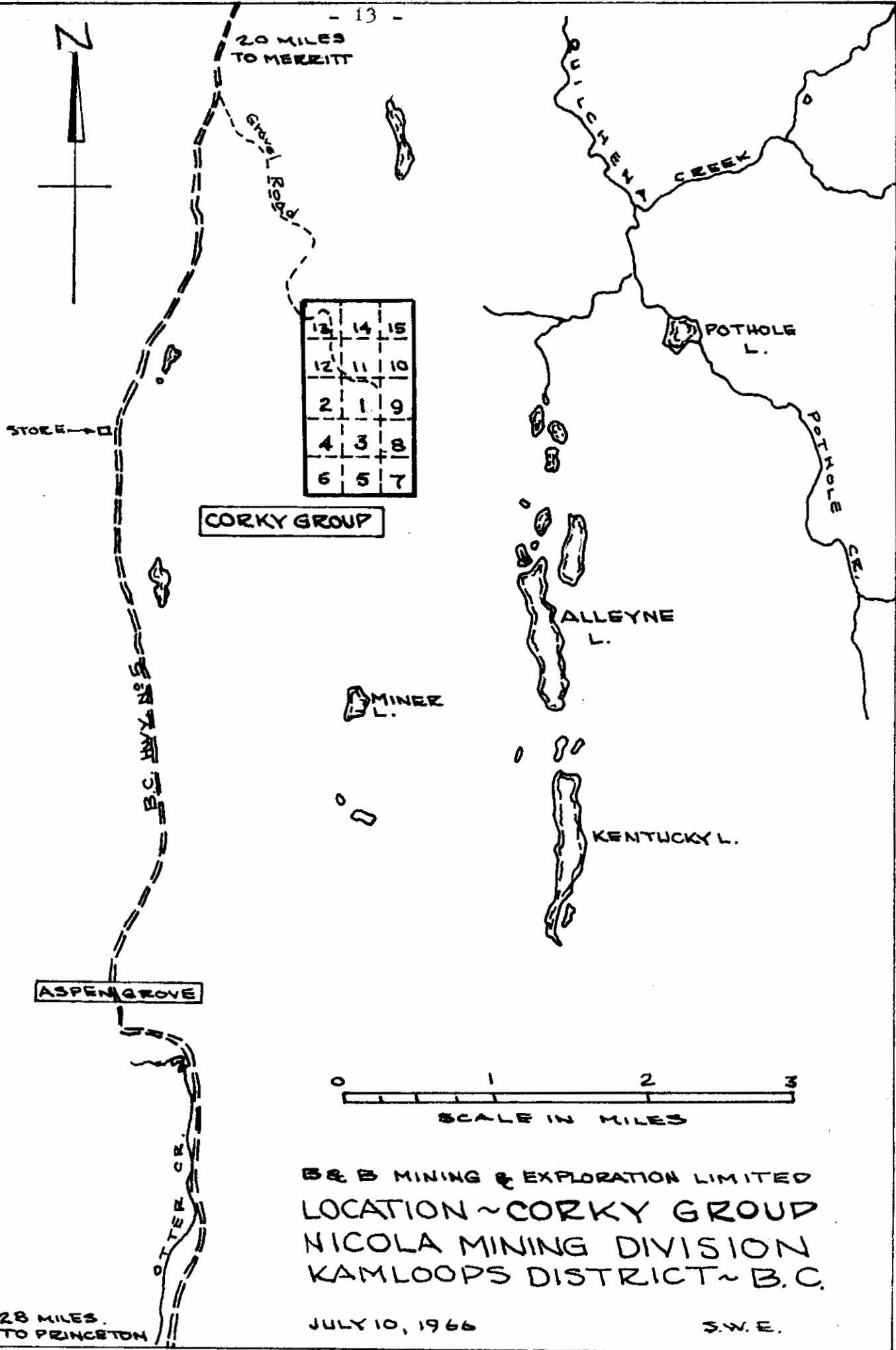

S. W. Evans B.A. Sc. P. Eng.
Mining Geologist

DATED at Vancouver, B. C. this 20th day of July, 1966.

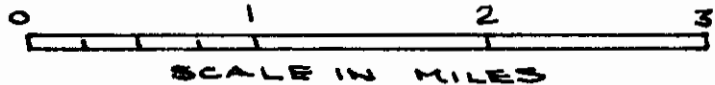


JACK R. DAWSONAndROGER PATTERSON

NAME OF CLAIM	RECORD NO.	RECORDING DATE	TAG NO.	DIRECTION OF LOCATION LINE.
CORKY NO. 1	25034	31/8/65	606240	Northerly
CORKY NO. 2	25035	31/8/65	606241	Northerly
CORKY NO. 3	25039	16/9/65	606242	North
CORKY NO. 4	25050	16/9/65	606243	North
CORKY NO. 5	25051	16/9/65	606244	North
CORKY NO. 6	25052	16/9/65	606245	North
CORKY NO. 7	25053	16/9/65	606246	South
CORKY NO. 8	25054	16/9/65	606279	South
CORKY NO. 9	25055	16/9/65	606280	South
CORKY NO. 10	25056	16/9/65	606281	South
CORKY NO. 11	25057	16/9/65	606282	South
CORKY NO. 12	25058	16/9/65	606283	South
CORKY NO. 13	25059	16/9/65	594900	South
CORKY NO. 14	25060	16/9/65	594901	South
CORKY NO. 15	25061	16/9/65	594902	South



12	14	15
12	11	10
2	1	9
4	3	8
6	5	7



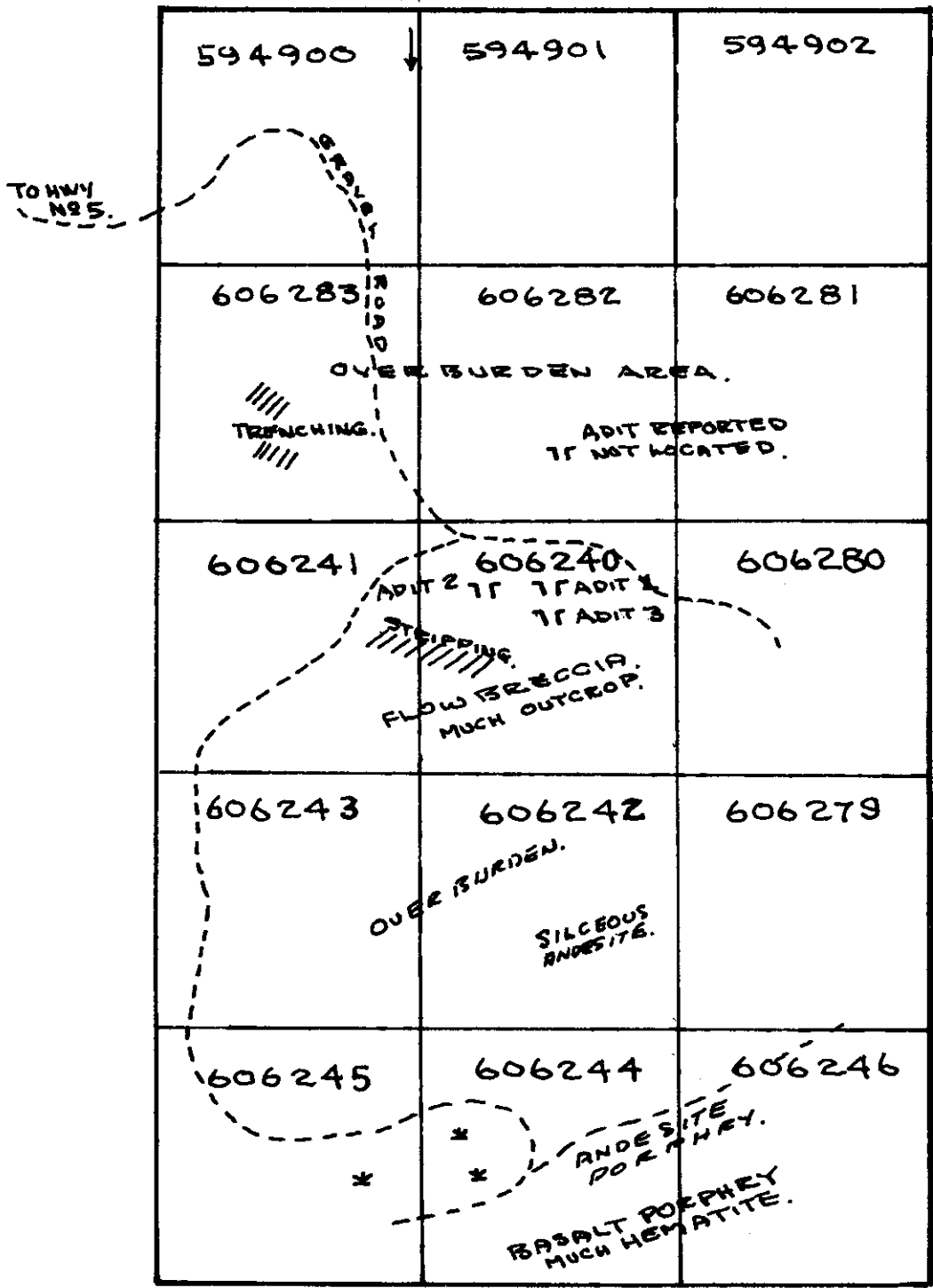
B & B MINING & EXPLORATION LIMITED
 LOCATION ~ CORKY GROUP
 NICOLA MINING DIVISION
 KAMLOOPS DISTRICT ~ B.C.

JULY 10, 1966

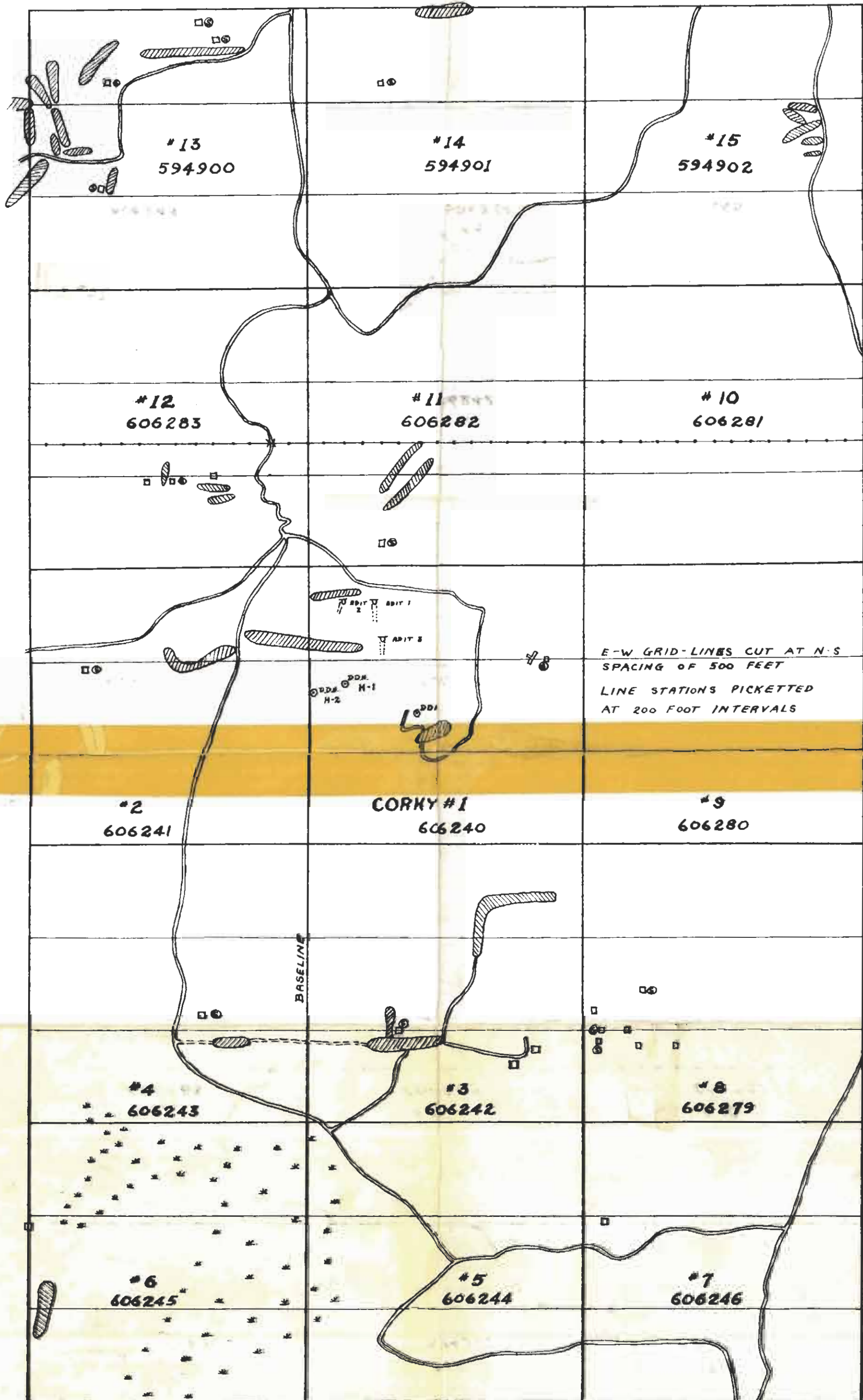
S.W.E.

ADIT	LENGTH
1	440'
2	50'
3	125'

PROPERTY UNDERLAIN BY FLOW GREENSTONES OF THE NICOLA GROUP, TRIASSIC PERIOD.



B & B MINING & EXPLORATION LIMITED
PROPERTY SKETCH
 CORKY GROUP
 NICOLA MINING DIVISION
 KAMLOOPS DISTRICT ~ B.C.
 Scale: 1 in. = 1000 ft. Date: July 15, 1966
 S.W. EVANS.



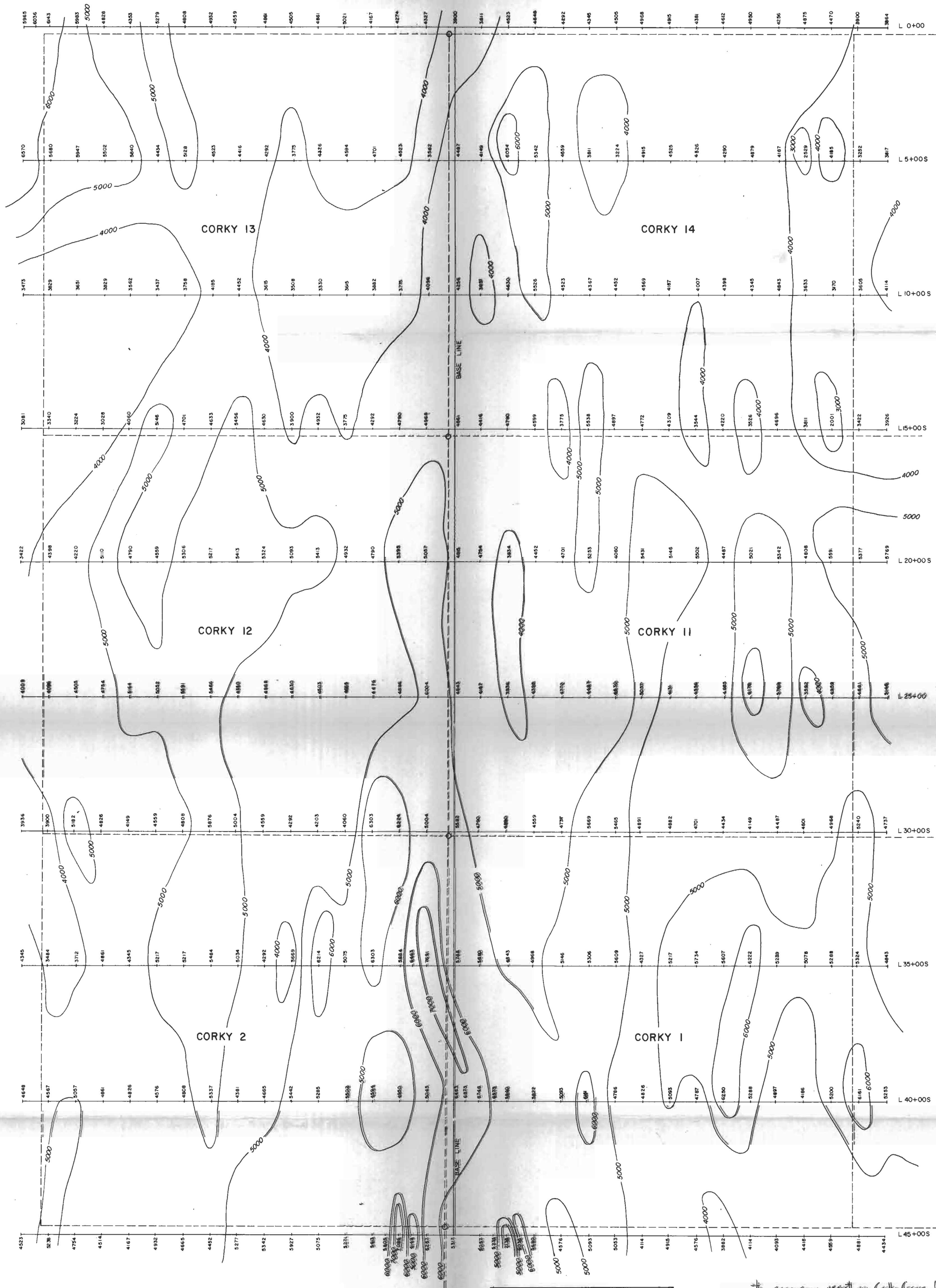
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- ROADS
- STRIPPING & TRENCHING
- DIGGINGS
- MINERALIZED DIGGINGS
- DIAMOND DRILL HOLES

to accompany report by S.W. Thomas P. Eng.
on the Corky Group, July 20, 1966

B & B MINING & EXPLORATION LTD.
CORKY GROUP OF CLAIMS
NICOLA MINING DIVISION
ASPEN GROVE, B.C.

SCALE 1" = 500' SEPT. 1966



LEGEND
 --- CONTOUR LINES
 --- CLAIM LINES
 --- GRID LINES WITH MAGNETOMETER READINGS

Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. 856 MAP # 3

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to accompany report on Corky Group by S.W. Evans, P. Eng. dated July 20/66

BEB MINING & EXPLORATION LTD.

MAGNETOMETER SURVEY
 CORKY GROUP

PROFESSIONAL ENGINEER
 A. C. HOWE
 CONSULTING ENGINEER

SCALE: 1" = 200'

A.C.A. HOWE & ASSOCIATES

DATE OF SURVEY: SEPT. 10, 1966

SURVEYED BY: [Name] PLUXGATE MAGNETOMETER

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