REPORT ON 1962 FIELDWORK ON THE BAYVIEW, JEM FRACTION, AND PEACOCK FRACTION CLAIMS

1. LOCATION:

The Bayview # 2 and #5, Jem Fraction #1 and #2, and Peacock Fraction claims are part of the Mt. Andrew and Mamie claim groups on Kasaan Peninsula, Prince of Wales Island, which is about 28 miles northwest of Ketchikan, Alaska. The closest settlement on Prince of Wales Island is Kasaan Village which is about 4½ miles to the northwest of the Mt. Andrew area on the southwest side of Kasaan Peninsual. The Mt. Andrew area is reached by trail either from Mt. Andrew landing on Kasaan Bay or from Lyman Anchorage on the northeast side of the peninsula.

RECENT WORK:

Recent work in the Mt. Andrew area has included:

i) geological mapping by the U.S. Geological Survey in 1943.

ii) 3200 feet of Ax diamond drilling in 17 holes on the Mt. Andrew Compound orebody by the U.S. Bureau of Mines in 1944.

iii) geological and geophysical (magnetic) mapping of the Compound orebody by Utah Construction & Mining Co. in 1957.

iv) 550 feet of Ax and Bx diamond drilling in 10 holes on the Compound orebody done by Utah in 1957.

v) 17,100 feet of Ax drilling in 51 holes done by Utah in 1960 on the Compound orebody.

vi) 3200 feet of Ax diamond drilling in 1960 and 1961 by Utah Construction & Mining Co. in the Mt. Andrew area.

vii) geological and geophysical mapping of the East Mt. Andrewdeposit and the Bayview claims south and west of the Compound orebody by Utah Construction & Mining Co. in 1962.

2. 1962 FIELDWORK:

The 1962 fieldwork was done from June through November in the Mt. Andrew area by a crew consisting of two geologists, a mining engineer-surveyor, and two assistants. The 1962 fieldwork consisted of the following specific work:

1) Extension of the Compound orebody geologic outcrop map at a scale of one inch to 50 feet to the north and south of the 1957 and 1960 mapping.

2) Geologic mapping of the East Mt. Andrew area--east of the Compound orebody--at a scale of 50 feet to one inch.

3) Detailed ground magnetometer survey of the East Mt. Andrew area.

4) Geologic mapping of underground workings in the East Mt. Andrew area.

5) Geologic mapping of the Bayview claims south and southwest of the Compound orebody to Kasaan Bay and north to the Lyman Anchorage draw. The mapping was done at a scale of one inch to 200 feet.

6) Ground magnetometer reconnaissance of the area south and west of the Compound orebody.

7) Detailed geologic mapping and ground magnetic surveying was also done along mineralized areas outlined on the Bayview claims.

The Bayview Nos 2 to 5, Jem Fraction No's 1 and 2 and Peacock Fraction lode mineral claims adjoin the Mt. Andrew and Mamie-Stevenstown patented lode claims and the entire group form a block of contiguous claims as indicated on the attached claim map. The 1962 fieldwork covered the entire area of the following mineral claims:

a) Patented lode claims

MS552
- Goddess of Fortune Lode
- Mayflower Lode
- North Star Lode
- Peacock Lode

MS 1626
- Rico Lode

MS552
- Glory Lode
- Goodluck Lode
- Commonwealth Lode

MS [illegible]
- Hal Lode

MS [illegible]
- Bayview Lode
- Princess Wales Lode

MS552
- Gladstone Lode
- Jingo Lode

K'x 119-58

b) Unpatented Lode Claims

- Peacock Fraction
- Bayview No. 2
- Bayview No. 3
- Bayview No. 4
- Bayview No. 5

K'x 119-215

The geological mapping was done by Brunton Compass and tape from stations located on a closed transit and tape traverse. The mapping was done directly on mylar field sheets with the data transposed daily to a master sheet. Underground mapping was done at waist elevation with profiles of each wall where required.

The magnetometer surveys were done along transit-surveyed traverse lines spaced at 50-foot intervals with stations spaced generally at 20-foot intervals. In areas of magnetic anomaly the station spacing was reduced to 10 feet. For the detailed magnetometer surveying, the instrument used was a Jalander Electronic magnetometer, model 1957, serial number 5770. This instrument is manufactured by H. Jalander, Helsinki, Finland and operates on the "fluxgate" principle. The Jalander magnetometer has a range of 0-250,000 gammas, both positive and negative, in five sensitivity ranges. It is a self-orienting, vertical magnetic field magnetometer of good precision.

The magnetometer used on the reconnaissance surveys was an Arvela Everyman Magnetometer (instrument No. G 227) which is a pocket-sized, ten ounce instrument. It has two sensitivity ranges,1000 and 5000 gammas per scale division. The total range on the 1000-gamma scale is 24,000 gammas, and on the 5000-gamma scale is 120,000 gammas. The scale reading may be estimated to one-tenth of a scale division or to a precision of 100 gammas on the 1000 scale and 500 gammas on the 5000 scale. It is a torsion-wire instrument and must be oriented to within 25° of magnetic north.

The cost of the 1962 fieldwork done on the Mt. Andrew claim group; that is, on and for the Bayview #2 to #5, Jem Fraction # 1 and 2, and Peacock Fraction claims, during the 1962-3 assessment year was $6000. in wages and salaries exclusive of camp and supply costs.

3. RESULTS:

Significant areas of iron-copper mineralization were defined in the East Mt. Andrew area and in the area south and west of the Compound orebody. This mineralization was outlined by both geologic mapping and the magnetic surveys. The distribution of the mineralization is suggestive of replacement along folds in limestone and limy sediments. Stratigraphic control of mineralization is more apparent on the southwest slope of the Compound orebody(Bayview claims) than on the Compound orebody or the East Mt. Andrew area. Faulting and fracturing is probably more important than bedding replacement although very few faults are evident in the surface exposure. A number of faults are evident in the underground workings but there is generally little evidence of the amount or direction of movement. Two strong faults were mapped in the Compound and East Mt. Andrew areas. The north-end fault strikes N 80° E and has a pronounced topographic expression. Mineralization was not found to extend north of this fault. The second fault strikes N 50° W and intersects the north fault. Faulting is particularly prevalent in many of the skarn and magnetite zones and is considered one of the main ore controls in the Mt. Andrew area. Although copper mineralization seems to be confined to the northern part of the Compound orebody in the East Mt. Andrew area, which directly adjoins the Compound orebody to the east, the copper mineralization is more widely distributed in a north-south direction.

4. SUPERVISORY PERSONNEL

This 1962 fieldwork was done under the supervision of: Maurice J. Young, geologist
Utah Construction & Mining Co.
#710-510 West Hastings St.,
Vancouver 2, B.C.

The transit and magnetometer surveys were conducted by:

George Jameson, Mining Engineer,
Utah Construction & Mining Co.,
#718-510 W. Hastings St.,
Vancouver 2, B.C.

Assisting in the geological mapping was:

Mr. J. Whiton, Assistant Geologist
Utah Construction & Mining Co.,
#718-510 West Hastings St.,
Vancouver 2, B.C.

QUALIFICATIONS

1) M.J. Young

1952-1956 Employed at Snow Lake mine by Britannia Mining & Smelting Co. in geological department.

1957-1961 attending University of Manitoba & University of B.C. graduated as B. Sc. (geology)

1957 summer season--employed by Britannia Mining & Smelting Co.

1958 " " -- employed by Utah Construction & Mining Co.

1959 " " -- " " " " " " " " (Alaska)

1960 " " -- " " " " " " " " "

1961-1963 geologist with Utah Construction & Mining Co.

2) J. Jameson

1949 -- completed four years at Camborne School of Mines, England (mining engineer degree)

1949-1952 shaft engineer--Anglo-Oriental Co., Malaya (tin placer dredging)

1953-1959 mining engineer--Int'l Nickel Co., Copper Cliff, Ontario.

1960 (1/2 year) shift boss Mineral King mine, Toby Creek, B.C.

1960 (1/2 year) field engineer--Lundberg Exploration, Prince George, B.C.

1961-1963 field engineer Utah Construction & Mining Co.

3) G.A. Whiton

1956 -- graduated University of B.C. B.A. (geology)

1961 " " " " M Sc. "

1957 (summer) -- field assistant Richfield Oil Corp., Calgary

1958 " -- field assistant Utah Construction & Mining Co. (Alaska)

1959 " -- Computer--seismic crew -- Mobil Oil of Canada Ltd.

1960 " -- junior geologist -- ShellOil Co. of Canada Ltd.

1961 " -- assistant geologist -- Utah Construction & Mining Co.(SE Alaska)

1962 " -- " " " " " " " " "

G.A. NOEL

GAN/do

No. 63-1617

This certifies that the within instrument was filed for record in the office of the KETCHIKAN RECORDING DISTRICT No. 8 and recorded on the 23 day of September, 1963 at 9:55 o'clock A.M. in Vol. 19 of Mining at page 139-145 of the record of said office at Ketchikan, Alaska.

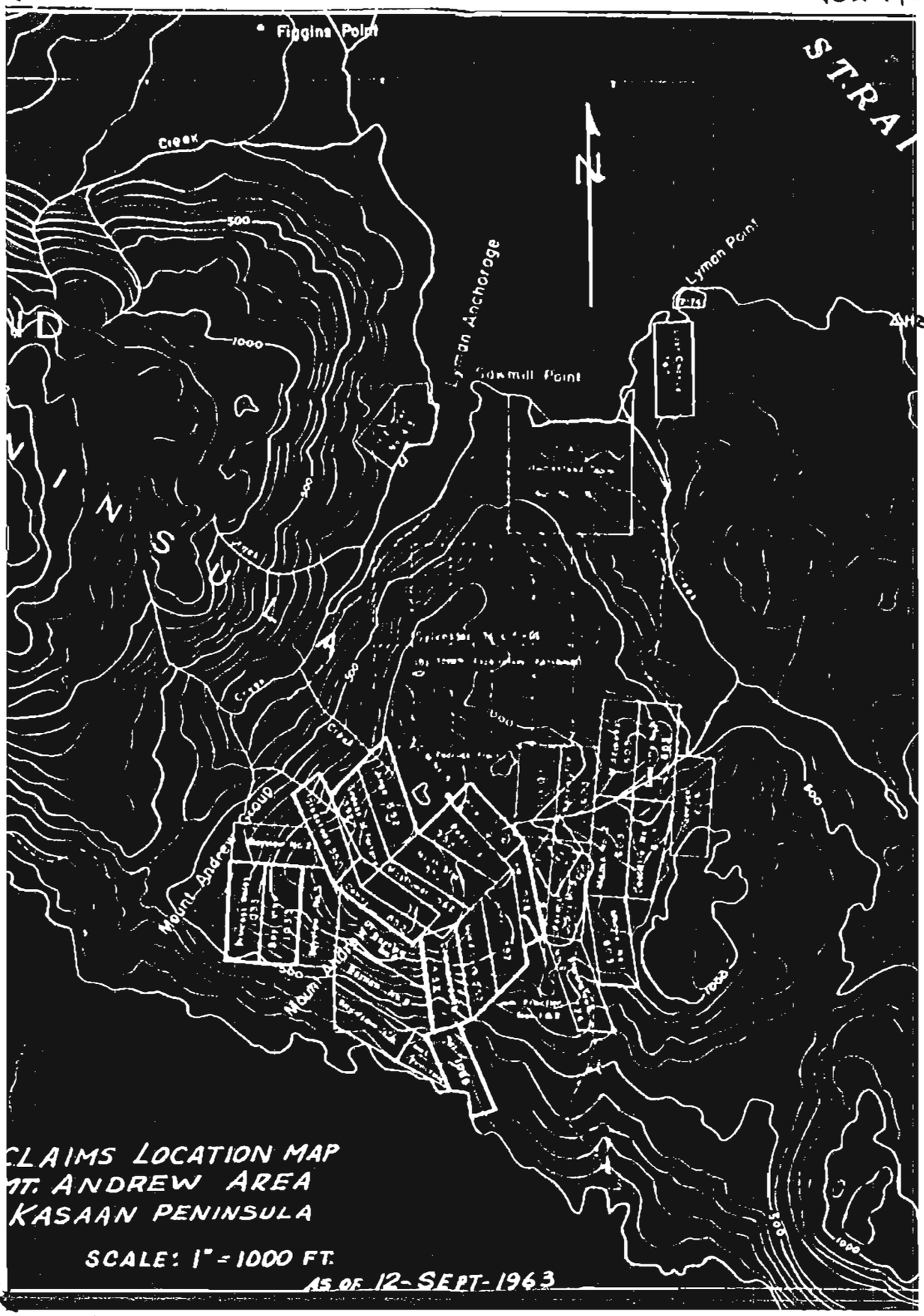
Richard B. Lauber Recorder

EML

VANCOUVER, B.C.

SEPTEMBER 12, 1963

VOL 19 - P145



CLAIMS LOCATION MAP
MT. ANDREW AREA
KASAAN PENINSULA

SCALE: 1" = 1000 FT.

AS OF 12-SEPT-1963

ORIGINAL IN VOL. 19 KETCHIKAN RECORDING OFFICE

132° 20'

55° 30'