

015947

RODNEY GOLD MINES LIMITED

ANVIL CREEK PROPERTY

YUKON, CANADA

S U M M A R Y

Joe
105-K-5

The property of 32 claims is located on the southwest flank of the Anvil Mountain Range in a geological setting that is similar to that of the productive area of the Anvil Mining Corporation some 7 miles to the southeast. This area lies about 130 miles north-northeast of the city of Whitehorse in the Yukon, or 40 miles northwest of Ross River.

The claim block has been well explored by geochemical, geological, magnetometer, gravity and induced polarization surveys during the past 5 years, but it has never been drilled.

Thus, as no mineral showings are available to guide any further exploration, it is recommended that a program of at least two holes be inaugurated to probe some specific targets. The targets are carefully chosen to be on or near combined anomalous results of geology, geophysics and geochemistry so that mineralization may be found to be the cause of these unusual readings.

The cost of the program is estimated at \$30,000.00.



Michael Ogden, B.A.Sc., P.Eng.

Toronto, Ontario.

January 28, 1972.

REFERENCES:

- (1) Magnetometer Survey of Joe 1 to 8 claims by Ross Lawrence P.Eng., of Watts, Griffis & McOuat Limited, April 1967.
- (2) Geological Survey of Joe 1 to 4, September 1967, by Kelly O'Connor of Watts, Griffis & McOuat Limited.
- (3) Geochemical Survey of Joe 1 to 8, August 1967, by Kelly O'Connor and John Walker. Soil samples were analyzed for lead, zinc, copper and nickel.
- (4) Magnetometer Survey of balance of Joe claims on 400 foot line intervals by Ross Lawrence, December 1967, and Review of Gravity Profiles by Seigel Associates, November, 1967.
- (5) Gravity and Topographic Survey of Joe claims by William Crook of Overland Exploration Services, Calgary, September 1969.
- (6) Induced Polarization Survey on Joe claims by Richard Crosby of Seigel Associates Limited, July 1971.
- (7) Filing Statement of Dynasty Explorations Limited, March 1968.

PROPERTY:

The property consists of 32 claims in the Anvil Creek area of the Yukon, some 130 miles north of Whitehorse. The claims are numbered Joe 1 to 32 inclusive and form a contiguous block of ground about 3 miles long by a mile wide.

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LOCATION AND ACCESS:

The property is located in the central southern quarter of the Yukon Territory. It is near $62\frac{1}{2}^{\circ}$ north latitude and $133\frac{1}{2}^{\circ}$ west longitude, at the junction of the Rose and Anvil Creeks, 5 miles northeast up the valley slope from the Pelley River, 45 miles northwest of the town of Ross River, or 130 miles north-northeast of Whitehorse.

Access although expensive, is readily afforded by helicopter from Whitehorse or Ross River. These towns can be reached by scheduled air line, or automobile from the rest of Canada. There is a new road, (Campbell Highway) extending northwest down the Pelley River Valley from Ross River for about 30 miles, where it swings to the west. Thus, diamond drill equipment could be brought into the property via this road and then by tractor on down the Pelley River Valley to the claim block, a distance of about 15 miles.

HISTORY AND REVIEW OF EXPLORATION:

The property was staked in 1966 during the rush caused by the Anvil-Cyprus-Dynasty discovery some 7 miles southeast of the claim block. The Anvil orebodies are estimated at 60 million tons of 8-10% lead-zinc with an ounce of silver in 3 separate zones.

Prospecting of the Joe group has failed to expose any lead-zinc mineralization but the geological formations and their attitude are similar to those of the productive Dynasty area to the south.

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Geological, geochemical and magnetometer surveys were done over most of the ground during the field season of 1967. One area of complex geology in claim Joe 1 had a partially superimposed lead and a zinc anomaly in the soils. The magnetometer survey disclosed an anomaly on top of this geochemical one, plus another sinuous anomaly nearby.

A gravity survey was done during the summer of 1969 and five anomalous areas were indicated, but the topography is so rough that proper interpretation is very difficult.

An induced polarization survey was done in 1971 and it disclosed a few zones of possible interest.

GEOLOGY:

The Joe claims are located on the southwest flank of the Anvil Range of Mountains near the northwest end of it. The core, or backbone of the Anvil Mountains is a great granite batholith of probable Mesozoic age. A series of paleozoic sediments and volcanics partially or completely altered to schists, surround and overlap the granite mass. Thus the dips on the property vary from 20 to 50 degrees to the southwest and the strike is normally northwest. These formations consist of sericite schist with carbonated zones and quartzite bands near the top of the claim block. This is overlain toward the south by gabbro, diorite and some peridotite including chlorite schists.

A northeasterly cross faulting offsets some of the strata and a strike fault has been found near the main base line.

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CONCLUSIONS:

By superimposing the anomalous geochemical data with that of the magnetics, the I.P. survey and the known surface geology, a few target areas of probable mineralization can be indicated.

As no showing of sulphide mineralization can be expected to be found, these target areas must be probed by diamond drilling.

RECOMMENDATIONS:

1. Diamond drill hole number one should be located on line 284 west at 2,650 feet south. This will place it almost in a fault zone at the peak of an induced polarization area of chargeability and on the north flank of a possible gravity anomaly. A lead and zinc soil anomaly lie some 300 to 600 feet downhill from this location. The hole should be drilled vertical to about 300 feet in depth.
2. Drill hole number two should be collared at 3,050 feet south on line 292 west. The line will have to be extended a thousand feet to the south in order to locate the hole. This hole is on the south flank of a 4,000 gamma magnetic anomaly which overlies a geochemical soil anomaly of zinc and is a little uphill from a lead soil anomaly. The probable ridge or peak of both a gravity anomaly and a broad zone of chargeability or induced polarization anomaly lie northeast of the location some 200 to 500 feet; but the dip of the formations in the vicinity (20° to 45° to the southwest) would tend to bring the strata reflected by these latter anomalies beneath the hole at depth. Hence the hole should be drilled vertical to 600 feet.

COST ESTIMATE:

The drilling costs in this area of mountainous country and high transport costs can be estimated as follows:

To drill two or three holes with a total of about 1,000 feet of drilling	\$15,000.00
Transportation of equipment in and out of property	10,000.00
Engineering, supervision and assaying including travel ...	<u>5,000.00</u>
Total funds that should be available:	<u>\$30,000.00</u>

Respectfully submitted,


Michael Ogden, B.A.Sc., P.Eng.

Toronto, Ontario.

January 28, 1972.

C E R T I F I C A T E

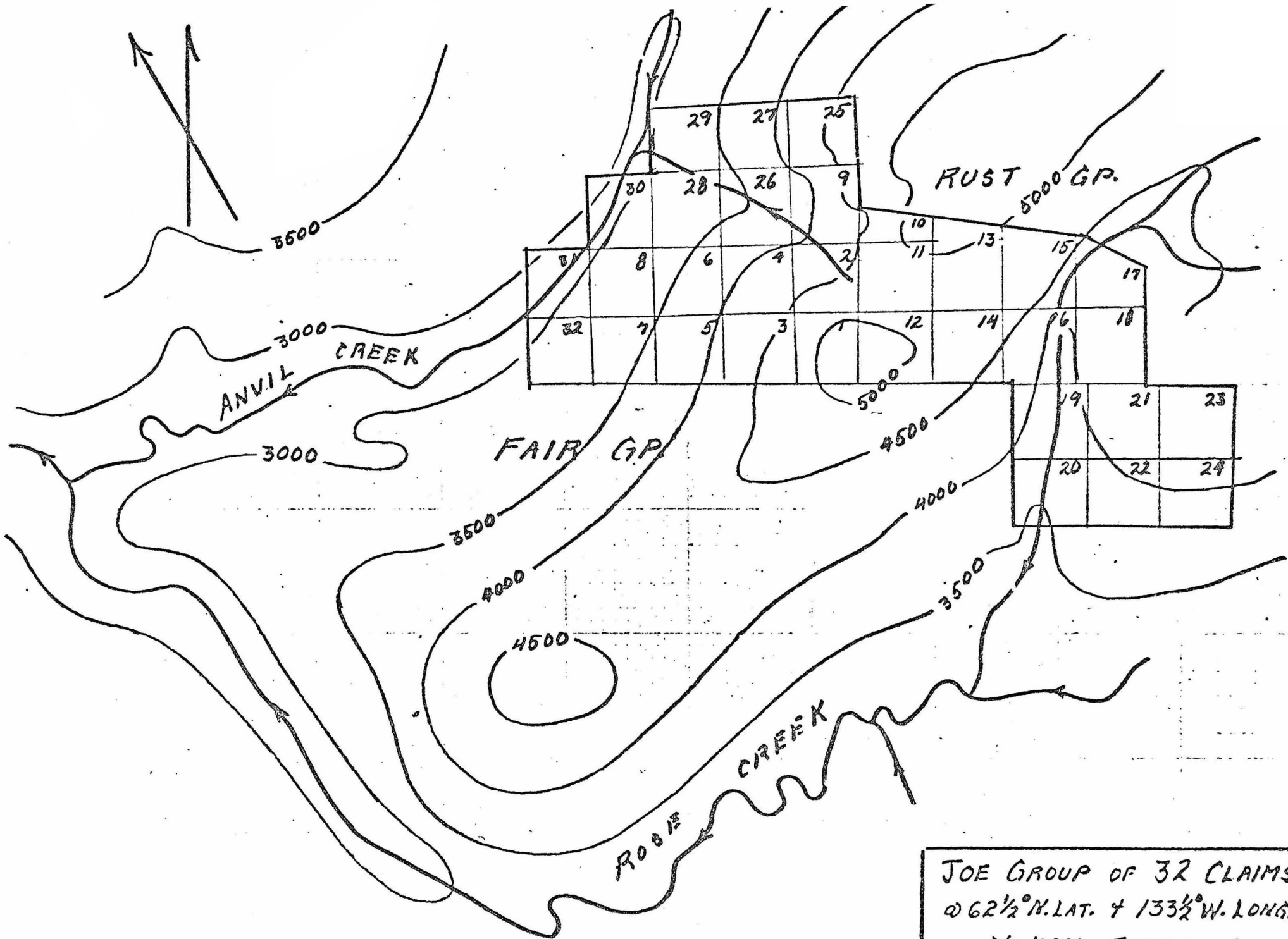
I, W. Michael M. Ogden, residing at Deanwood, Rural Route #4, Stouffville, in the County of York, Ontario, do hereby certify as follows:

1. That I am a graduate in Applied Science (Mining Geology) from the University of Toronto in 1950.
2. That I am registered as a Professional Engineer in the Province of Ontario and have been practising my profession for 20 years.
3. That I have no interest, either direct or indirect, and do not expect to receive any interest in the properties or in the securities of Rodney Gold Mines Limited.
4. That I have never been in the Yukon or near the property, so that this report is based entirely on the sources as listed in References, and on personal conversation with some of the authors.



Michael Ogden, B.A.Sc., P.Eng.

Dated at Toronto, Ontario, this 28th day of January, 1972.



JOE GROUP OF 32 CLAIMS
 @ 62½° N. LAT. + 133½° W. LONG.
 YUKON TERRITORY
 1 IN. = ½ MI. OGDEN

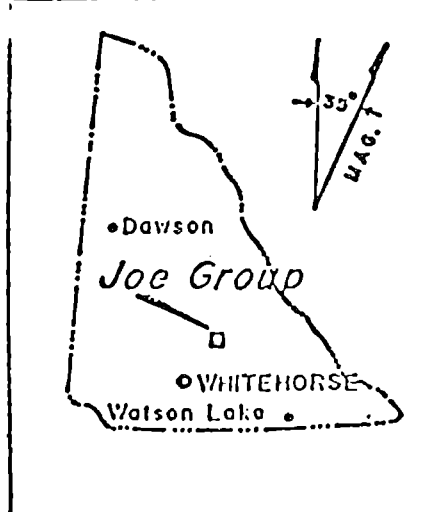
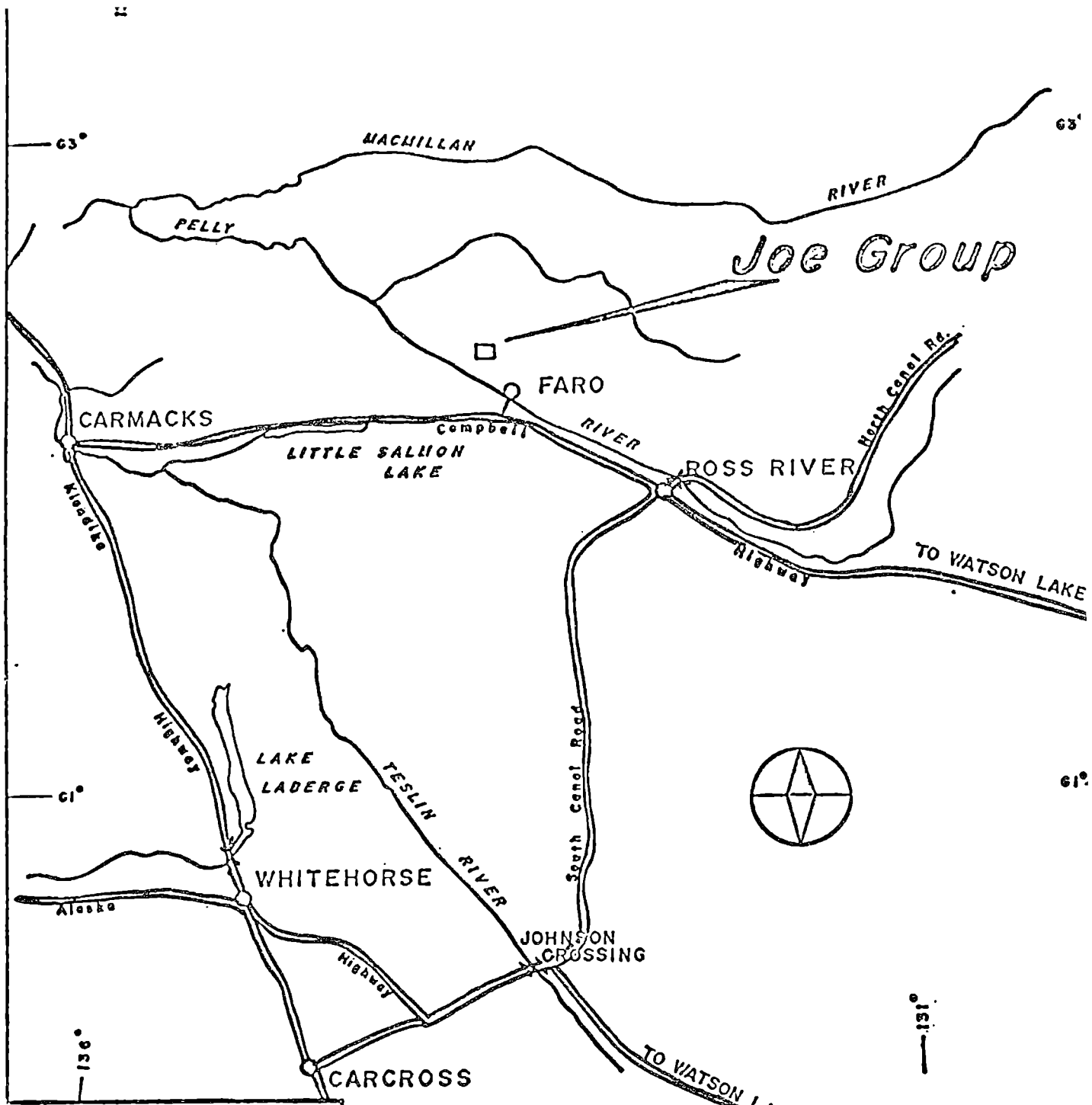


FIG. 1
 HECLA MINING CO. OF CANADA LTD.
 LOCATION MAP
 JOE GROUP OF CLAIMS
 ANVIL AREA, YUKON TERRITORY

