To be returned

Goldbeam Mines Ltd

Report on Underground Exploration to Oct 15/46 and Recommendations further work

J. F. Wright

Oct 20/46

REPORT

On Underground Work to October 15th

With Recommendations for Further Exploration

GOLDBEAM MINES LIMITED

BY

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Geologist

October 30th, 1946.
Toronto, Ontario.

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To the President and Directors,
Goldbeam Mines Limited,
75 Summit Ave., Toronto.

Report on Underground Work and Recommendations further Exploration

Enclosed you will find plans of the surface diamond drilling and of the workings on the 150 foot, 300 foot, and 450 foot levels. The underground development since May 15th, when the shaft was completed, is summarized as follows:

Level	Driving	Crosscutting	Diamond Drilling
150 foot	690	270	100
300 foot	360	-	620
450 foot	260	488	540

The drives and crosscuts have opened an area southwest of the shaft for diamond drilling, and since drilling was far behind the other work, the recommendation was followed on October 18th to suspend underground work until the necessary diamond drilling can be completed. An underground drill was purchased by the Company last August, but then bits were not obtainable so that only limited drilling has been done. My recommendation is that a contractor be sent to the property, preferably Boyles Bros., with a 3,000 foot contract. The main diamond drill stations required are completed.

The drive on the 150 foot level for 300 and 240 feet north and south respectively from the shaft, followed a

strong structure with the diorite broken and in part altered across widths up to 16 feet. The dip of this body is from 40 to 80 degress, averaging near 60 degrees. The altered rock is mineralized, chiefly by a white arsenic sulphide, carrying some cobalt and nickel, quartz stringers are locally present and at some points visible gold. Some encouraging gold assays were had, the car samples with few exceptions were low, in many rounds 70 cents to $1.05, and no ore shoot was indicated. A raise was extended up to Hole 73 and here narrow sections were found to be gold-bearing.

To the southwest 230 feet from the station, a branch alteration zone was followed 150 feet to the southwest from its intersection with the main zone followed from the station. The assays of this did not indicate ore. From this drive a raise was driven to the intersection of Hole 76 where half the core gave 2 feet assaying .31 oz. and the chekc of the second half gave .84 oz. or an average of $19.95. The car samples here gave $8.40 ore across the width of the raise, approximately 5 feet. The raise was extended up the dip 40 feet with assays of .02 to .07 oz., .13 to .30. The altered and mineralized zone is wide, 10 feet or more, and the back of the raise was slashed at two points, but as yet has not been check sampled. The information to date from the raise indicates low grade material, $3.50 to $4.50 average, but the main gold-bearing zone of the deposit may be in the hanging wall and not exposed in the workings. The dip of the deposit is 40 degrees and the intersection of the 40 degfee and 60 to 65 degree zones is expected to carry good grade ore. The projection down the dip of the 40 degree dipping deposit will be in the

east wall of the drive south from the shaft and this can be explored by a series of shallow flat holes from points along the drive.

A crosscut was started northwest from the southwest end of the drive on the 150 foot level to cut deposits "A" and "B" indicated by the surface drilling. This crosscut is 200 feet long and at 140 feet cut a zone, 14 feet wide, with three alteration zones carrying quartz stringers, These zones are separated by 2 to 4 feet of fairly massive diorite. One of the alteration zones assayed 6 inches at $40.95. This deposit is similar to "A" deposit indicated in the surface drilling. It can be explored by short drill holes from the end of the crosscut, also "B" deposit can be reached from this point, and this drilling is required before drifting on these deposits.

On the 300 foot level the east drive was headed towards "D" deposit and the west drive to "B" deposit, but only limited work was done. Three short holes were completed to locate "D" deposit. One of these gave 2 feet at $8.40 and the other two gave $2.45 and $1.05. Some further drilling is recommended and "B" deposit cut in surface drilling at a depth of 290 feet is not over 200 feet from the west end of the west drive.

On the 450 foot level, the main work was in the crosscut northwest to explore the Sundog and Sunbeam deposits. This crosscut is not quite half completed. In the last round a series of alteration zones was cut and one of these carried some gold ($2.10) assay. The rock between the altered zones is massive, the alteration is 2 to 6 inches wide with 2 to 5 feet of intervening massive diorite. Towards the end of the crosscut

the diorite is becoming fine-grained suggesting the greenstone belt between the diorite and monzonite, also the Sundog zone, is not far northwest of the last face.

The rocks in the vicinity of the deposits are intrusive diorite and monzonite. The gold-bearing deposits are in the diorite which is older than the monzonite, probably an early phase of the monzonite which forms the central or core area of the intrusive. Bodies of andesitic greenstone, one known to be about half a mile long and up to 60 feet wide lie in the diorite close to the monzonite. The Sundog veins are in a series of fractures and shears at about 30 degrees in strike to the long direction of the andesitic bodies. The gold deposits are fracture and alteration zones with stringers of vein quartz, pyrite, white sulphide, (a variety of arseno-pyrite) a little sphalerite and galena. Silicified diorite with pyrite carries gold. Visible gold is present in the quartz, Flat joints and thrust planes (5 to 30 degree dip) cross the alteration zones and are believed to be important in localizing the gold.

The underground work was on only two alteration zones, the one dipping on the average of 65 degrees, and the second with a 40 degree dip. In the limited work completed some promising sections were encountered. Not nearly enough exploration has been completed to test thoroughly all the possibilities. Before continuing the exploration however, I feel that the results of a series of lateral diamond drill holes are required. The diorite if fairly uniform in general character, and no key beds or structures are present to indicate the trend of the structure. I would like to know for certain that the

drives are following the main gold zone in the belt of altered diorite and something about possibilities on and below the 450 foot level before resuming additional driving and crosscutting. At least 3000 feet of underground drilling will be required to give this information. This drilling is recommended to be done as soon as possible to avoid overhead expenses of maintainance of crew and power.

Respectfully submitted,

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Geologist

11 King St. West,
Toronto,
October 31, 1946.