

82E / 2E

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GEOPHYSICAL SURVEY
SOUTH END GROUP

Introduction

The magnetometer survey of the South End Group followed the procedure outlined in the reports submitted earlier this year for assessment work on the B.C., Summit City, and Loon Lake Areas.

The magnetometer was operated by Mr. Fred S. Dunn of 247 St. Clemens Ave., Toronto 12, Ont. Mr. Dunn used a calibrated magnetometer from Sharpes Instruments Ltd., 690 Bay St., Toronto, Ont. Mr. T. Domke surveyed for Mr. Dunn.

The magnetometer was calibrated to the same intensity as that used in the B.C. etc. areas, and all readings were compensated to the diurnal. Stations were taken at 100 ft. intervals on lines 100 feet apart, and a tree at each station was blazed and numbered. (see accompanying map)

Interpretation

The R. Bell mine is on a north-south striking sheared zone in limestone. The few tons of 'ore' mined contained magnetite as well as chalcopyrite and sphalerite. The mineralized zone gave high magnetic readings, as can be noted on the accompanying map. However, the magnetometer survey indicates that the mineralized zone does not continue southerly through the South End Group. The north-south trending anomalous zone on the South End and the scattered anomalies on the Swamp Fr. are attributed to augite porphyrite, pulaskite and

1700 ft
#1 magnetic survey of R. Bell
at the South End Group

dioritic dykes and sills. These intrusives have been found to give similar anomalies elsewhere in the Greenwood-Phoenix area.

The greenstone, or andesitic volcanics, contains a few small skarn zones which give magnetic anomalies. These skarn zones are small; none found in the area are of economic interest

Dr R. H. Josephin

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AFFIDAVIT OF ASSESSMENT COSTS

Mr. Fred S. Dunn and assistant worked on the area shown on the accompanying map from July 11 to July 22, inclusive;

Mr. Fred S. Dunn, 14 field days at \$27.00	\$378
Mr. Ted Donke " " " " \$12.00	\$168
Total	\$546

Approximately three fifths of the work was on the three claims comprising the South End Group, the South End, South End #2, and Swamp fraction. This portion, if accepted, is sufficient for one years' assessment work on each of the claims.

Dr. R. H. Seraphin

Dr. R.H. Seraphin



Magnetic Survey of R-Bell and South-End Group
 253 - magnetic reading
 254 - number stored on tree
 255 - at magnetometer station

Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 78
 NO

Report 78
 Accompanied affidavits
 Oct 2 Oct 24 1962 made
 A.H. Soraghan, and report
 signed by Soraghan

