

180-777-13

GEOPHYSICAL REPORT ON  
THE RHYOLITE MINERAL CLAIM  
OF  
BRICAN RESOURCES LTD. (NPL)

82E/13W  
Osoyoos Mining Division  
Lat. 49° 51'N; Long. 119° 51'W

for  
ESSO RESOURCES CANADA LIMITED

by  
Alfred Stewart

May 28, 1980

MINERAL RESOURCES  
8143

PART 1 of 2

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GEOPHYSICAL REPORT ON  
THE RHYOLITE MINERAL CLAIM

INTRODUCTION

This report deals with a magnetometer survey carried out on the Rhyolite mineral claim from May 21 to May 26, 1980.

1) Location and Access

The Rhyolite mineral claim is accessed by secondary roads and logging roads from the community of Peachland, B.C. The property may be reached by two-wheel-drive vehicle. It is located approximately 10 kilometers northeast of Peachland, on the north side of the Brenda Mines road.

2) Property

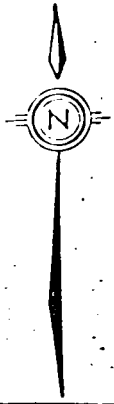
The property consists of one claim of 12 units.

<u>Claim</u>	<u>Record No.</u>	<u>No. of Units</u>
Rhyolite	410	12

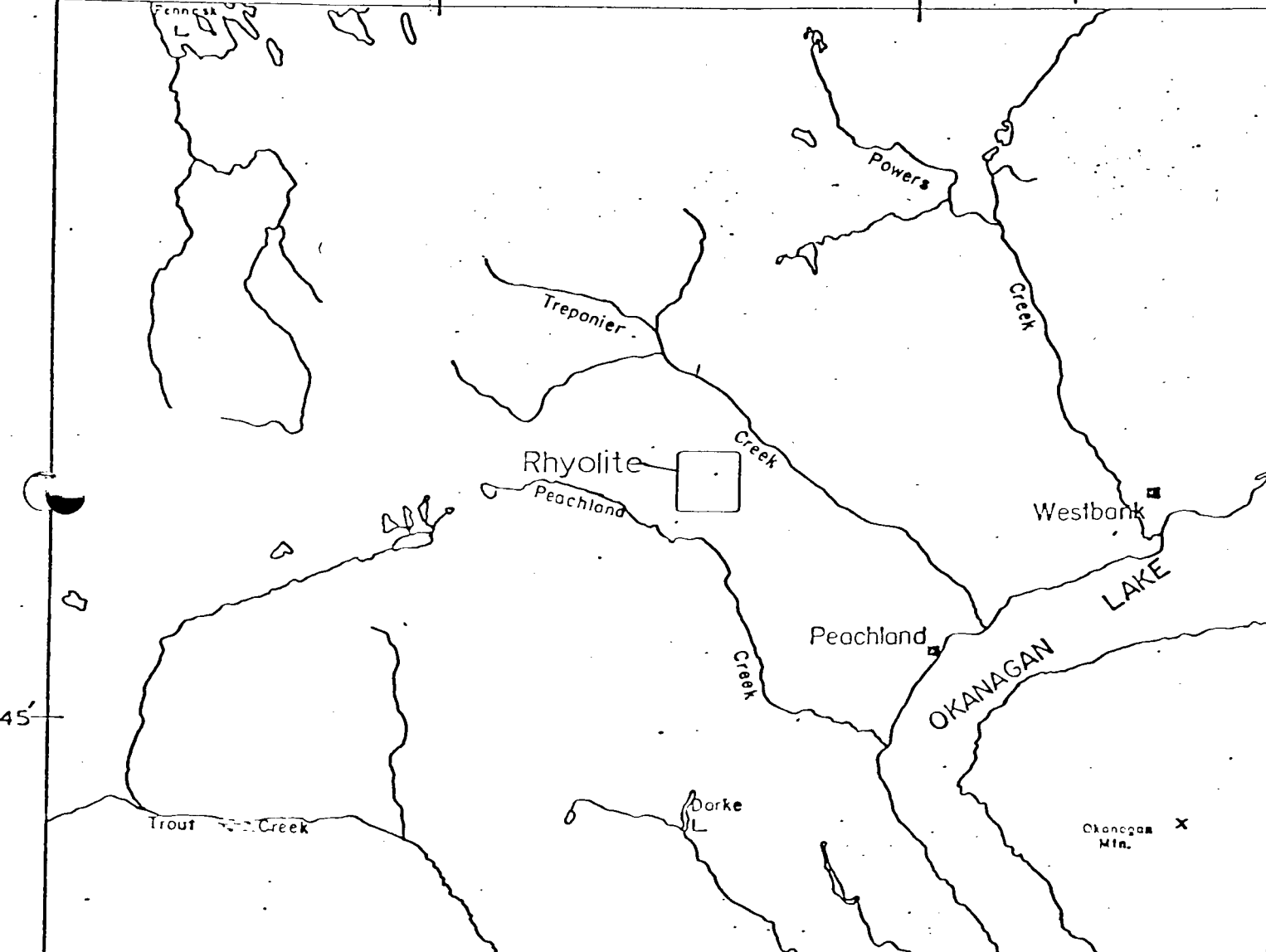
3) History

Circa 1933-35: First staked as Baldry, Emitte, Miss Trepanier claims following which a shaft was sunk on a massive sulphide showing on top of a bald hill.

1966: The ground was occupied by Boundary Explorations Ltd. as the Astra, Baal, Ida and Calumet claims.



5000' 12000' 45



ESSO MINERALS CANADA

INDEX MAP

Peachland Pendant Project  
Project No. 2160  
Mining Division Osoyoos  
Latitude \_\_\_\_\_  
Longitude \_\_\_\_\_  
NTS 92H,82E  
To Accompany Report By:  
A. Stewart  
Dated May, 1980  
Map No. 1  
Scale 1:250,000

They did 400 feet of bulldozer trenching and built 2 miles of road looking for copper and molybdenum.

1974: Canadian Occidental Petroleum Ltd. held the Sil claims and carried out a survey of the surface workings, linecutting, geological mapping at a scale of 1 inch equals 400 feet, a magnetometer survey (22 line miles) and took 645 soil samples on a 200 feet by 400 feet grid. In addition they took 72 rock chip samples and 103 stream silt samples.

1975: Canadian Occidental drilled on diamond drill hole (92.4 metres) in granodiorite and built one kilometre of road.

1977: Sil claims lapsed.

1978: The Rhyolite claim was staked.

References: B.C.D.M. G.E.M. 1974 p.62, 1975 p.27.

Assessment Report No. 5319.

#### 4) Work Done

A 10 km magnetometer survey was carried out on a flagged grid established by Brican Resources in 1979. A two-man Esso Resources crew did the geophysical survey in May 1980. The geophysical operator was Garnet Dawson.

## MAGNETOMETER SURVEY

### 1) Procedure and Theory

A Geometrics G-816 portable proton precession magnetometer was used. This instrument digitally displays the total magnetic field strength by measuring the frequency at which protons (hydrogen nuclei) precess about the prevalent earth's magnetic field. The precession frequency is directly proportional to the total magnetic field strength at the point of measurement.

Time variations of the magnetic field (diurnal) were obtained by repeated readings at base stations established within the survey area. The base station values were then fixed and any time variations of the magnetic field along the traverse lines were linearly distributed by tying in to one or more of the base stations at the end of each traverse. These linearly distributed variations in the traverse station values were then removed from the field data.

Magnetometer readings for the Rhyolite Grid were taken at 25 meter intervals along lines spaced 100 meters apart. The data is presented in plan form at a horizontal scale of 1:5000 and contoured at 200 gamma intervals.

### 2) Results

A broad magnetic high was detected extending from L5NW, 2+50NE to L9NW, 4+50NE. The trend is widest on L5NW,

and changes direction to the northeast on that line from its general northwesterly trend. This divergent northeasterly trend may be due to strong diurnal variation in the data for L5NW which could not be eliminated through the normal correction procedure.

Several scattered magnetic anomalies occur on the north side of the grid. A strong NW trending narrow anomaly occurs at L8NW, 7+00NE.

3) Conclusions

The north side of the Rhyolite survey grid has more magnetic variation than the south side. This may indicate a change in rock type. It was noted during the magnetometer survey that part of the north end of the grid is underlain by intrusive rock, and that most of the southern part is underlain by rhyolite. It is recommended that the north part of the grid be mapped geologically to determine the cause of the magnetic variation. The magnetic anomaly on L8NW, 7+00NE should be investigated in detail.

*Alfred Stewart*

ITEMIZED COST STATEMENTLABOR

Survey Operator	5 days @ \$71/day	\$ 355.00
Helper	5 days @ \$50/day	250.00

ACCOMODATION

10 man-days @ \$33/day		330.00
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TRANSPORTATION

Truck Rental	5 days @ \$30/day	150.00
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GEOPHYSICAL EQUIPMENT

Magnetometer Rental	5 days @ \$23.30/day	116.52
Report Preparation	2 days @ \$96/day	192.00
Drafting	2 days @ \$71/day	142.00

TOTAL \$ 1,535.52

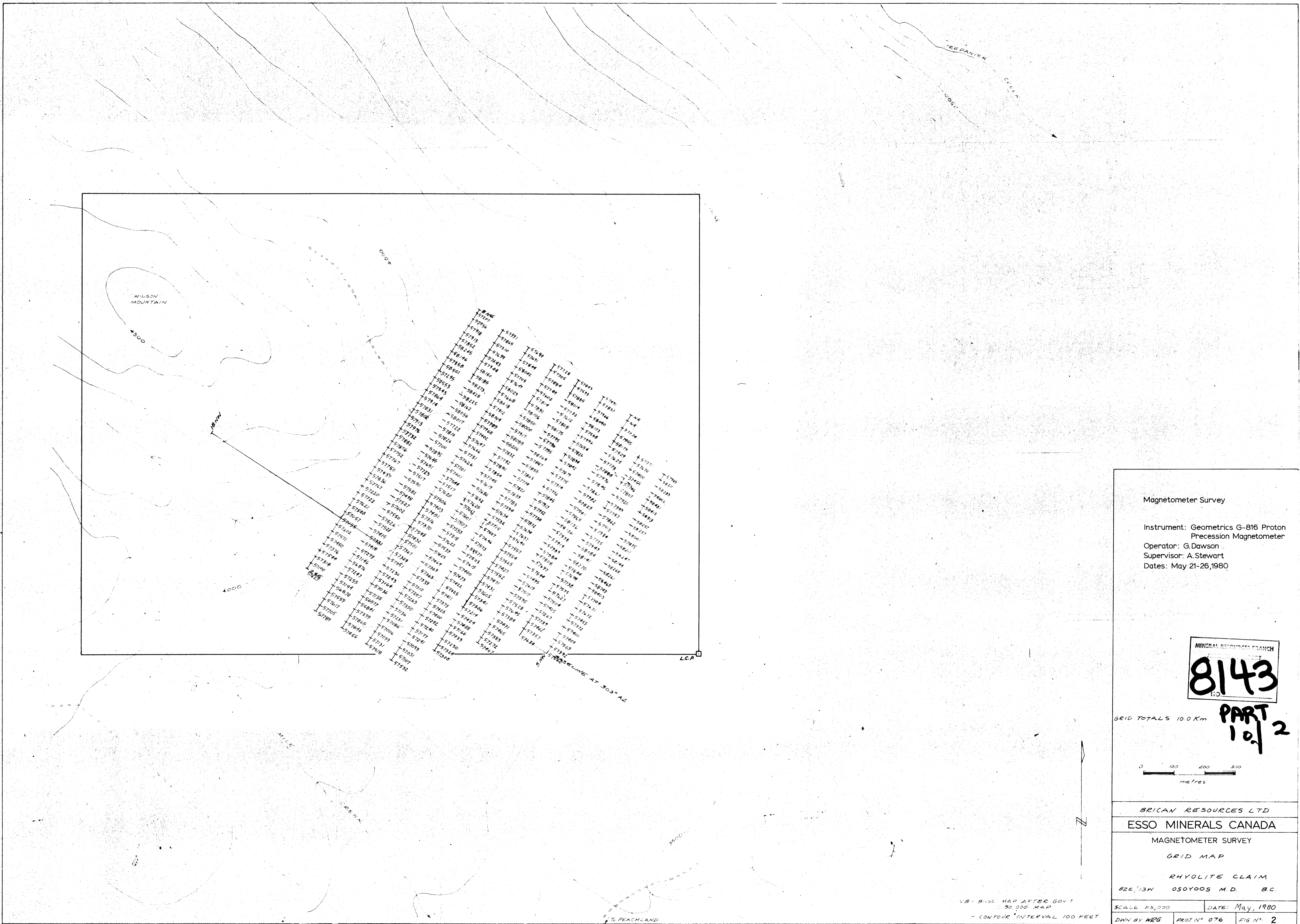
*Alfred Stewart*



STATEMENT OF QUALIFICATIONS

Garnet L. Dawson  
Geophysical Operator

Garnet L. Dawson is currently a student at the University of Manitoba where he is completing the requirements for a B.Sc. in Earth Sciences, and will be graduating in December of 1980. Mr. Dawson worked with Trigg, Woollett Consulting Ltd. in 1979 and Eldorado Nuclear Ltd. in 1978 for the summer field season. In the past two summers he has acted as a geological field assistant conducting magnetometer and radiometric surveys in northern Saskatchewan and in the Dismal Lake area, North West Territories.



Magnetometer Survey

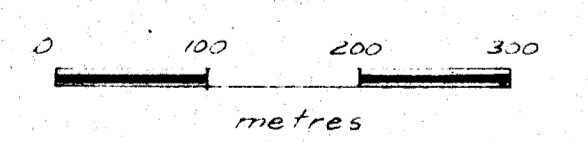
Instrument: Geometrics G-816 Proton  
Precession Magnetometer

Operator: G. Dawson  
Supervisor: A. Stewart  
Dates: May 21-26, 1980

MINERAL RESOURCES BRANCH  
8143  
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PART  
1 of 2

GRID TOTALS 100 Km



BRICAN RESOURCES LTD  
ESSO MINERALS CANADA  
MAGNETOMETER SURVEY  
GRID MAP  
RHYOLITE CLAIM  
82E/13W 050Y005 M.D. B.C.

1:50,000 MAP AFTER GOVT  
30,000 MAP  
- CONTOUR INTERVAL 100 FEET

SCALE 1:50,000 DATE: May, 1980  
DWN BY: WEG PROJ NO: 076 FIG NO: 2