

1567

POLARIS MINES LTD. N.P.L.  
WENDY CLAIMS  
R. J. BILLINGSLEY  
GEOCHEMICAL/GEOPHYSICAL REPORT

Trout Creek, 16 Miles West  
82 E/12W of Summerland - 49° 119° N.W.  
~~92119~~

April - May, 1968

FRANKLIN L. C. PRICE  
PROFESSIONAL MINING ENGINEER

318 THE BURRARD BUILDING • VANCOUVER 5, CANADA • TELEPHONE 685-6733 • AREA CODE 604 • CABLE PRICEO VANCOUVER  
206 HOOKER HOUSE • 7 ANGEL PLACE • SYDNEY, AUSTRALIA • TELEPHONE 28-4613 • CABLE PRICEO, SYDNEY

May 30, 1968


Polaris Mines Limited, N.P.L.,  
535 Thurlow Street,  
Vancouver 5, B.C.

Dear Sirs:

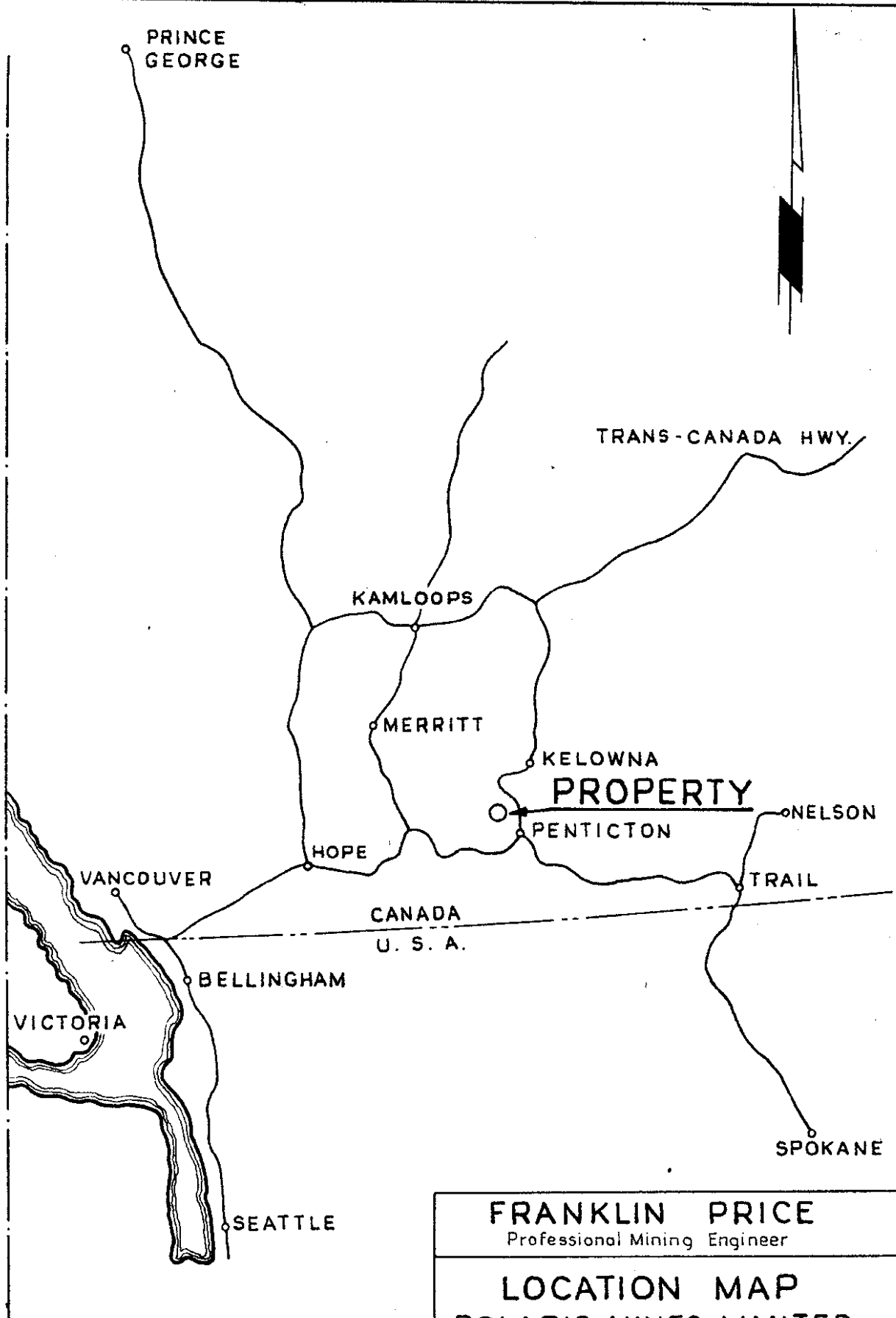
At the request of your Company I have completed a preliminary magnetometer and geochemical survey of a portion of the Wendy claim group on that area known as Trout Creek west of Summerland, B.C.

My report and maps are attached.

Respectfully submitted,

  
Franklin L.C. Price.

flcp/e  
att.



<b>FRANKLIN PRICE</b> Professional Mining Engineer	
<b>LOCATION MAP</b> <b>POLARIS MINES LIMITED</b>	
SCALE: - 1" = 50 MILES	JUNE, 1960

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## INTRODUCTION:

During the past two years geochemical, geophysical and drilling exploration has been carried on within a few miles of this group. Lodestar Mines Ltd. has operated drilling equipment just 1,000 feet west of the Wendy 9 fraction. The drilling has indicated interesting amounts of copper.

Polaris Mines Limited of Vancouver has acquired, by staking, the Wendy group of mineral claims situated just west of West Summerland in the Osoyoos Mining Division, in the southern portion of British Columbia. This group of 24 claims must be considered a copper prospect.

Within the past few years, nearly 500 claims have been staked in the area, and at this date, three geological crews are working in the Trout Creek valley or within a few miles of the Wendy group. The early work has only been along the creeks and up to the three thousand foot level, while now the entire area is being systematically prospected with jeep being used for transportation in the lower levels and helicopter being used to move geologists to the upper reaches of the area.

As far as we know, to date there has been little or no work or recent prospecting along the area that is covered by this claim group, except that done by Lodestar adjoining to the west.

### LOCATION AND ACCESS:

The Wendy group of mineral claims is located just 16 miles west of West Summerland or just 26 miles from Penticton, B.C. The block of claims is on the right bank of Trout Creek and the lower elevation of the claims is just a few thousand feet from the Kettle Valley line of the Canadian Pacific Railway. A good gravel road runs up the Trout Creek valley from West Summerland, however, only poor logging roads are on the claim area. My trip to the claims was made on foot from the Trout Creek valley, and we walked in from mileage 24 on the Canadian Pacific line.

The exact location may be centred at  $49^{\circ} 40'$  North latitude and  $120^{\circ}$  West longitude. The claim area is on the north slope of the hill, and the elevation will run from the Trout Creek level to nearly 5,000 feet near the head of Bear Paw Creek.

The gravel road that runs up Trout Creek from West Summerland parallels the rail line to Princeton so that access is available from either direction, however the shorter and more direct manner would be from the east, which is 16 miles of good road. Access to the southern portion of the claim area or near the 5,000 foot level is from an old logging road that starts near Kirton. This road is only for four-wheeled trucks, and some minor work is necessary to remove a few windfalls.

TIMBER, WATER AND POWER:

Timber

Most of the property is covered by jack pine which rarely exceeds 8 inches in diameter. A few stunted spruce occur along low lying swampy areas. Occasional fir occur on lower well drained areas.

Water

Adequate water is available on the property for camp and exploration purposes. Trout and Bear Paw Creeks provide adequate water for a limited potential mining operation.

Power

The nearest existing electrical power source is West Summerland Power Line that extends up Trout Creek to within four miles of Kirton.

PROPERTY:

The report covers the Wendy group of claims in the Osoyoos Mining Division of British Columbia.

The Wendy group is made up of the following:

<u>Name</u>	<u>Record Number</u>	<u>Expiration</u>
Wendy 1 - 8	360882 - 360889	June 1, 1968
Wendy 9 - 24	360889 - 360905	June 2, 1968

The records of the mining office in Penticton, B.C. have not been checked, as we understand that the company has retained counsel to assure the claims are in proper legal standing at this date.



## GEOLOGY:

### Regional

The Trout Creek area is underlain by rocks of the Coast intrusions and are believed to represent a protracted and intermittent period of intrusion possibly from middle Jurassic to upper Cretaceous time. These rocks are reported in an area twenty miles square with your claim group on Trout Creek nearly in the centre. These rocks are mostly granodiorite with a change in colour from pink to white to grey and crystal change from coarse to medium coarse. These granodiorites continue to within three miles of the Hedley mining camp and extend west nearly to Princeton.

Copper mineralization has been reported at Mt. Kathleen, Mazama, and at Thirsk or within five miles of the claim group. Molybdenite is reported at Mt. Kathleen, occurring with the copper as a finely disseminated mineral through the granodiorite.

### Local

The rocks observed on the recent trip across the claim area and across Trout Creek were red to pink granodiorite. These rocks were coarse grained and much alteration was observed in the rocks along the right limit of Bear Paw Creek. Rocks could only be checked along Bear Paw and Trout Creeks as the area is otherwise completely masked with soil and glacial debris.

## GEOPHYSICAL EXPLORATION:

A preliminary reconnaissance type of geophysical survey was done over a portion of the Wendy group in May. This work was done with a Sharpe Model MF-1 magnetometer.

A base line was made across the claims and tied in to the A-line of the Lodestar survey. The Lodestar survey was used as the control, as this was a long well established flagged base line located along the western boundary of the Wendy group.

Magnetometer readings were taken every 100 feet along the Wendy control lines and marked on the magnetometer survey drawing in gammas. The readings as can be noted are relatively constant and no apparent anomalies were located.

Because of the terrain the claims were not run and further work could be done between these location lines.

The Sharpe instrument used is a direct reading machine and the readings were made in gammas. A base station was established along the road where the machine was checked each morning and each evening in order to balance the survey with daily diurnals. Calculations were then made on ordinary calculation sheets.

### GEOCHEMICAL SURVEY:

Soil samples were taken every 200 feet along the survey lines. These samples were taken with a small hand spade from a depth of approximately 6 inches. It is believed the samples were taken from the A-horizon. The samples were then placed in marked Duplex paper bags and shipped to Vancouver to a chemical laboratory. The samples were dried in the laboratory, and screened through a 60-mesh screen. Only the fines were used for appraisal, so the samples were taken from the -60 material.

The samples were later processed by the hot acid method and tested with the Evans Atomic Absorption Spectrophotometer.

The assays thus obtained show copper in parts per million, and were placed on the map at their location point.

Maps have been prepared using a claim map outline and separate maps made for both the geochemistry results and the geophysical results.

## BIBLIOGRAPHY

Rice, H. M. A., (1960)  
Geology and Mineral Deposits of the Princeton Map Area  
Geological Survey Canada Memoir 243

Map 888 - A  
Princeton, Geological Survey Canada

Map 889 - A  
Mining Properties, Geological Survey Canada

Map 15 -1961  
Kettle River, Geological Survey Canada

## CERTIFICATE OF QUALIFICATION

I, Franklin Langworthy Carr Price, do hereby certify

that:

1. I am a practising mining engineer with offices at 318 Burrard Building, 1030 West Georgia Street, Vancouver 5, British Columbia.
2. I am a graduate of the New Mexico School of Mines, and have been granted the degree of Bachelor of Science in Mining Engineering.
3. I have been practising my profession as a Mining Engineer for 20 years.
4. I am a member of the Association of Professional Engineers of British Columbia, Certificate Number 4576.
5. I hold licence number 0209800 in the State of Washington as a Professional Engineer.
6. I personally visited the property on April 26, 1968.
7. I have no interest, direct or indirect, in the properties or securities of Polaris Mines Limited.

Vancouver, B.C.,  
May 30, 1968



*Polaris Mines Limited*

(NON-PERSONAL LIABILITY)

TELEPHONE: 684-7266

501 PHILLIPS BUILDING  
535 THURLOW STREET  
VANCOUVER 5, B.C.

SUMMARY OF EXPENSES - GEOPHYSICAL SURVEY - WENDY CLAIMS

Truck rental

Peel Resources (Clev. 4 W.D.)	
965 Miles @ 12¢	115.80
15 Days @ \$13.00	195.00
Avis (Clev. 1/2 ton)	<u>84.68</u>
	\$395.48

Truck running expenses

Gasoline and Oil	42.00
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Magnetometer Rental

21 days @ \$11.00	231.00
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Field Wages

W. Walker - 19 days @ \$20.00	380.00
C. Richter - 21 days @ \$30.00	<u>630.00</u>
	1010.00

Geochemical Samples

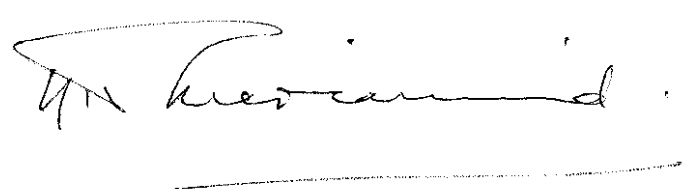
491 samples @ \$1.20	589.20
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Consulting Engineers (F. Price)

250.00

2517.68

Declared before me at the *City*  
of *Vancouver*, in the  
Province of British Columbia, this *4*  
day of *June, 1968*, A.D.



*J. Paul* **Sub-mining Recorder**

A Commissioner for taking Affidavits within British Columbia or  
A Notary Public in and for the Province of British Columbia.



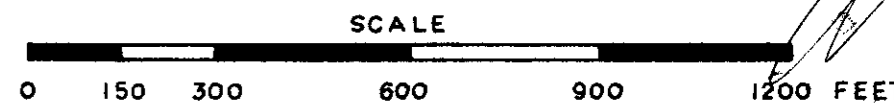
Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 1567 MAP 2

To accompany geophysical report by Franklin Price, P. Eng.,  
on the WENDY group, on Trout Creek, Osage Mining Division,  
dated May 30th, 1968.

FRANKLIN PRICE  
Professional Mining Engineer

POLARIS MINES LIMITED  
VANCOUVER, CANADA

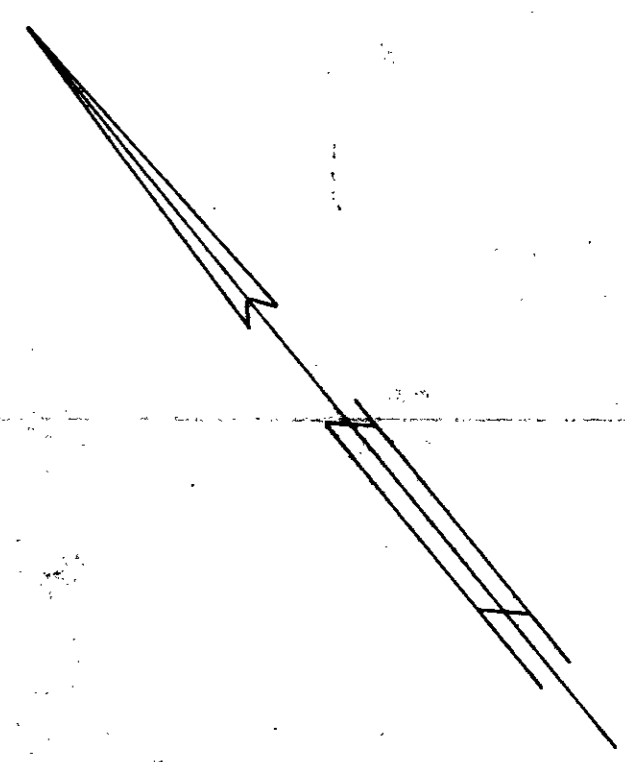
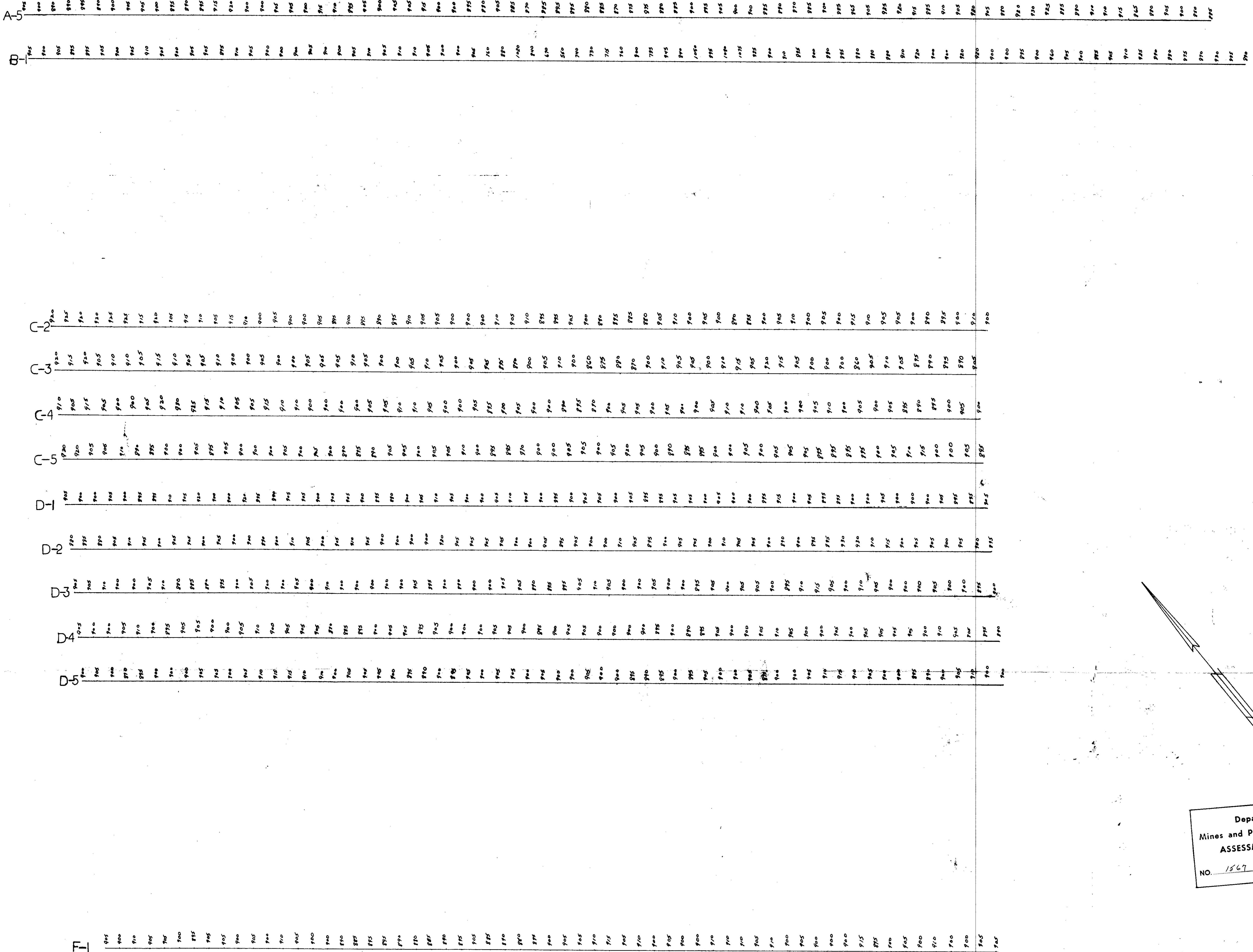
CLAIM MAP



BRUNTON SURVEY ACCURACY

MAY

1567



Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 1567 MAP 3

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Professional Mining Engineer

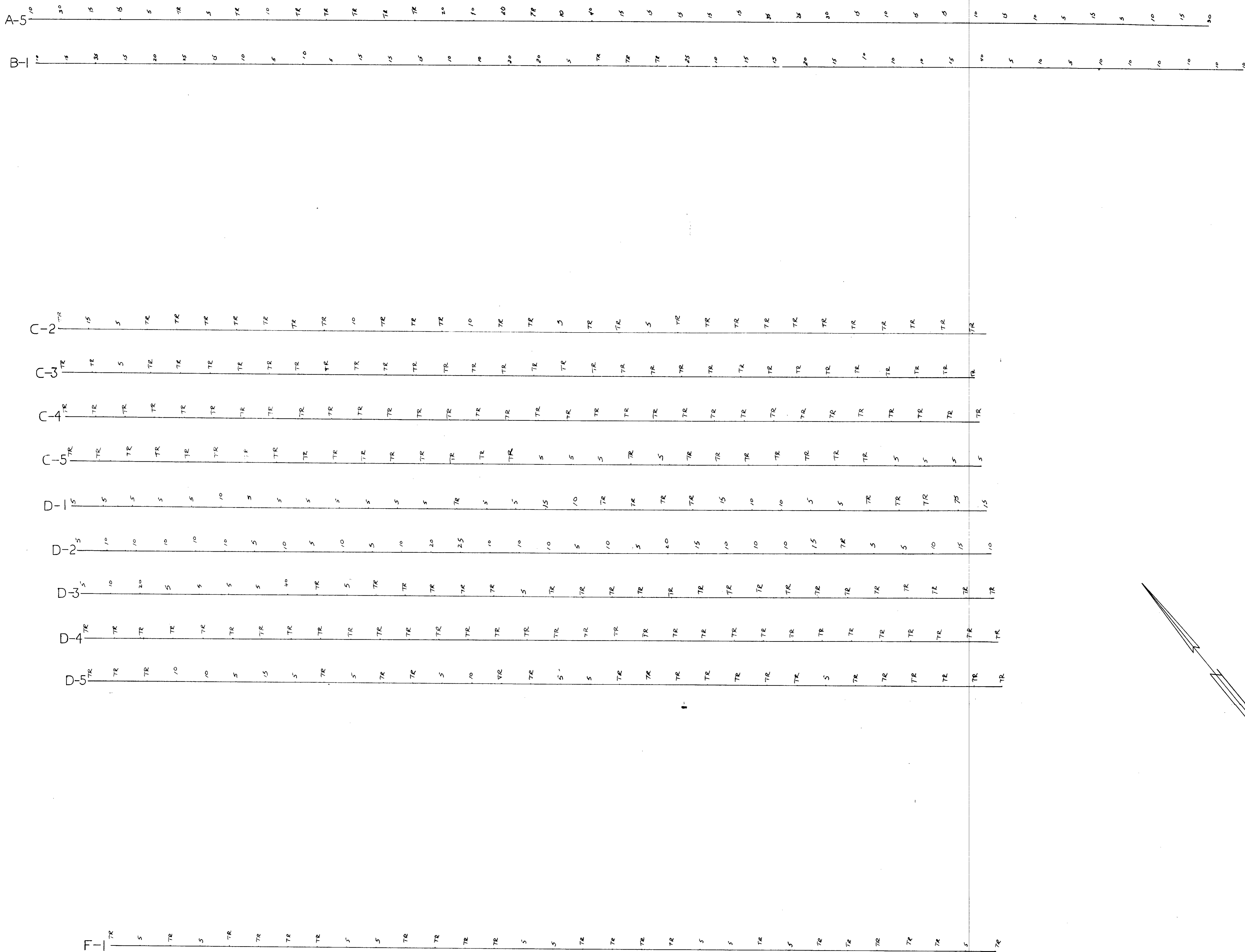
POLARIS MINES LIMITED  
VANCOUVER, CANADA

MAGNETOMETER SURVEY  
OVERLAY DRAWING  
SCALE

0 150 300 600 900 1200 FEET

READING IN GAMMAS x 10 MAY 1968





To accompany geophysical report by Franklin Price, P. Eng., on the WENDY Group, of Trout Creek, Coquille M.D., Division, dated May 23rd, 1958.

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FRANKLIN PRICE  
Professional Mining Engineer

POLARIS MINES LIMITED  
VANCOUVER, CANADA

GEOCHEMICAL SURVEY  
OVERLAY DRAWING  
SCALE

0 150 300 600 900 1200 FEET

READINGS IN COPPER PARTS PER MILLION MAY, 1958