

627

MAGNETOMETER SURVEY

D.D. 1 - 14 CLAIM GROUP

Five Miles Southeast of AHBAU on the
Pacific Great Eastern Railroad

(53° 122° S.E.)

PESO SILVER MINES LTD. (M.P.L.),
420 - 475 Howe Street,
Vancouver 1, B. C.

by

D. R. Morgan, B.Sc.

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Statement of Qualifications

Geologist in charge (D.R. Morgan)
Instrument Operator (F. Carter)

Maps Accompanying this Report
in folder

1. Ahbau Creek Claims
Magnetometer Survey
2. Geology of Ahbau Claim Group
(Source: G.S.C. Map 49-1960)

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. 627 MAP

INTRODUCTION:

The D.D. 1 - 14 claims were staked for Peso Silver Mines Ltd. on February 14, 1964 to cover a strong magnetic anomaly. This anomaly appeared on Magnetic Map 1540 G, Cottonwood, Sheet 93 G/1 which was released by the G.S.C. on February 14, 1964.

During the 1964 field season the company conducted a ground magnetometer survey on cut and chained lines.

An electromagnetic survey was also conducted on part of the company's property.

LOCATION AND ACCESS:

The D.D. 1 - 14 claims are located twenty miles north of Quesnel on Ahbâu Creek, three miles southeast of where the creek is crossed by the Pacific Great Eastern Railway. Highway 2, which connects Quesnel and Prince George passes within one mile of the property and a logging road leads from the Highway and passes through the claims alongside Ahbau Creek.

CLAIMS:

The D.D. 1 - 14 claims were staked on February 14, 1964 by the writer and Dirk Templeman-Kluit. The claims were recorded on February 21, 1964 and were subsequently given record numbers running consecutively from 26977 for D.D. 1, to 26990 for D.D. 14.

TOPOGRAPHY:

The claims lie on the margin of the highlands that lie to the east of the Fraser River.

Ahbau Creek where it traverses the claims, has cut a valley about three hundred feet below the level of the surrounding countryside. This valley is approximately half a mile wide.

GEOLOGY:

The regional geology surrounding the claims appears on G.S.C. Map 49-1960. This map shows Lower Jurassic agrillites greywackes and volcanics which have been intruded by a fairly large dioritic stock, whose intrusive contact lies about five miles north of the property. (see accompanying map).

This map also indicates a small intrusive dioritic plug cut by Ahbau Creek. Where this plug is cut by Ahbau Creek (and possibly elsewhere too) it has been brecciated and healed by a pink granite.

The angular Gabbro fragments occurring in this breccia are magnetic and it is probable that the intense magnetic high recorded over the property was due to the presence of magnetite in a gabbro intrusion that preceded the diorite.

Very minor chalcopyrite occurs in place on the north bank of Ahbau Creek on line 86.

MAGNETOMETER SURVEY:

A magnetometer survey of the property was made using a Sharpe A-3 magnetometer.

A base line was cut for the full length of the property and picket lines laid off at 300 foot intervals.

Readings were made first along the base line and then all readings which were later made on the picket lines were corrected to the base line values.

Readings on the picket lines were made at 100 foot intervals.

diurnal Readings were also corrected for ~~decimal~~ magnetic variation.

RESULTS OF SURVEY:

Results of the survey appear on the map accompanying this report.

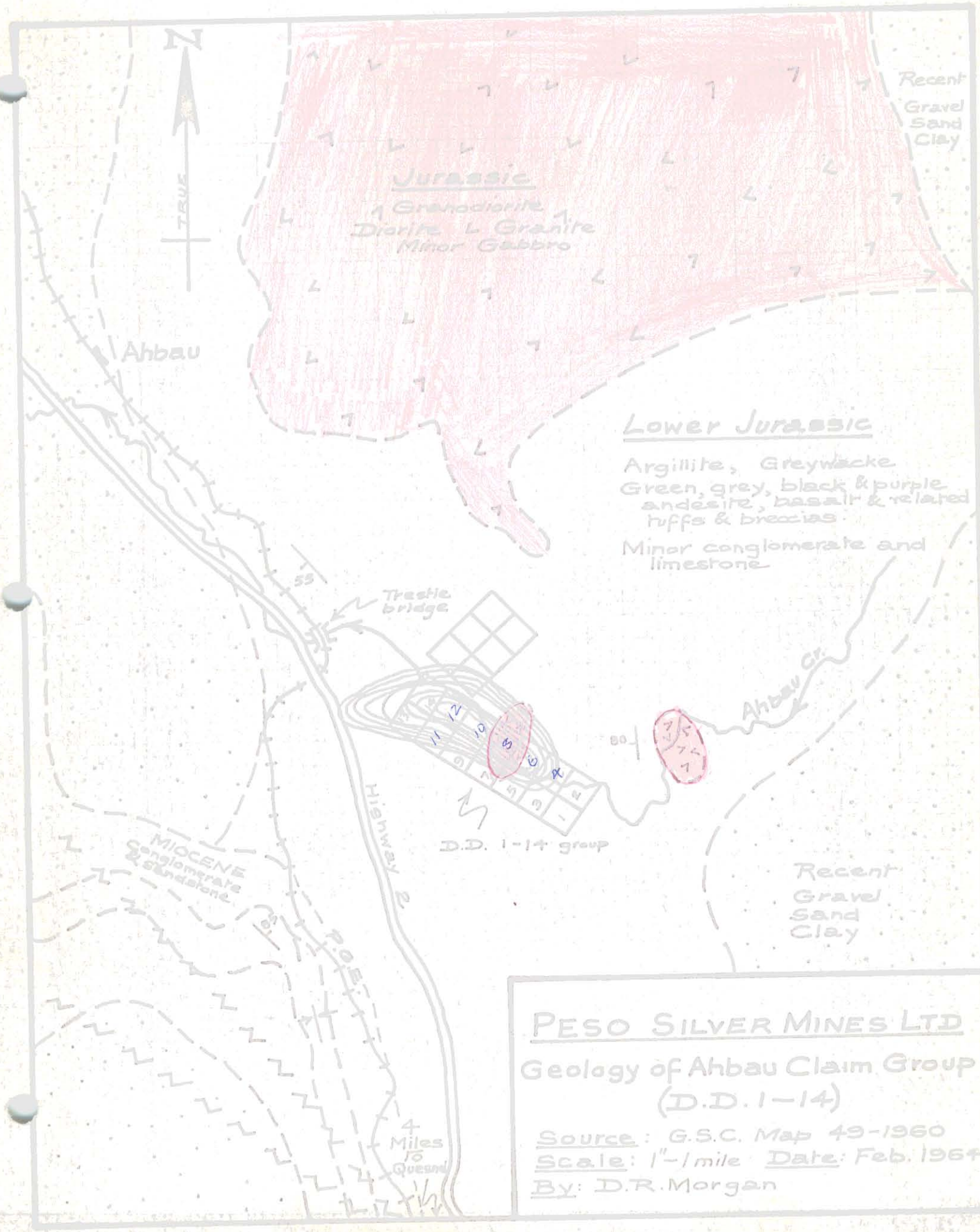
Magnetic highs occur in claims D.D. 8, 10, 12, 13 and 14.

The magnetic contours run parallel to the valley of Ahbau Creek and the areas of high magnetic intensity lie in the valley and close to the creek with the exception of a high traversing claim D.D. 13

These highs probably represent concentrations of magnetite within the diorite plug. The fact that diorite is brecciated and that the breccia fragments are magnetic indicates that there may be structural control to these concentrations.

Signed

J. B. Johnson



PESO SILVER MINES LTD
Geology of Ahbau Claim Group
(D.D. 1-14)
Source: G.S.C. Map 49-1960
Scale: 1" = 1 mile Date: Feb. 1964
By: D.R. Morgan

I hereby make oath and say that the following is a true statement of expenses incurred by Peso Silver Mines Ltd., #420, 475 Howe Street, Vancouver 1, B. C. in conducting a Magnetometer survey on the D.D. 1 - 14 Claim Group at Ahbau, B. C. during 1964.

<u>Salaries & Wages</u>		<u>Total Man Days</u>	
February	2 Men	5 days	\$ 75.00
March	2 Men	12 days	200.06
	(6 days each)		
April	2 Men	20 days	376.66
May	15 Men	89 days	1,625.04
June	8 Men	32 days	519.96
Miscellaneous wages			69.29
			\$2,866.01
Equipment Rentals			261.38
Field Supplies			108.98
Camp Supplies			124.82
Car Rental			29.00
Motel, Hotel and Food			570.54
Travel Expenses			244.84
Miscellaneous Expenses			24.10
			\$4,229.67

Signed

Declared before me at the city of Vancouver, in the Province of British Columbia, this 17th day of February 1965, A.D. (For Peso Silver Mines Ltd)

Colman McChae
Sub-mining Recorder

STATEMENT OF QUALIFICATIONS OF INSTRUMENT OPERATOR

Name: F. Carter
Address: c/o Mount Nansen Mines Limited,
Carmacks, Y. T.
Birth Date: December 6, 1932
University Standing: Second Year Geology completed
Degree Anticipated: B.Sc. (Geology and Geophysics)

Experience:

<u>Year</u>	<u>Work</u>	<u>Company</u>
1960	Geophysical Instrument Operator	Eldorado Mining & Refining
1961	Assistant	Camex Aerial Exploration
1962	Assistant	Peso Silver Mines Ltd.
1963	Assistant	Kerr Addison Gold Mines.

PERSONAL DATA SHEET

David R. Morgan, Geologist.

B.Sc. - McGill, 1954 (Honours Geology)

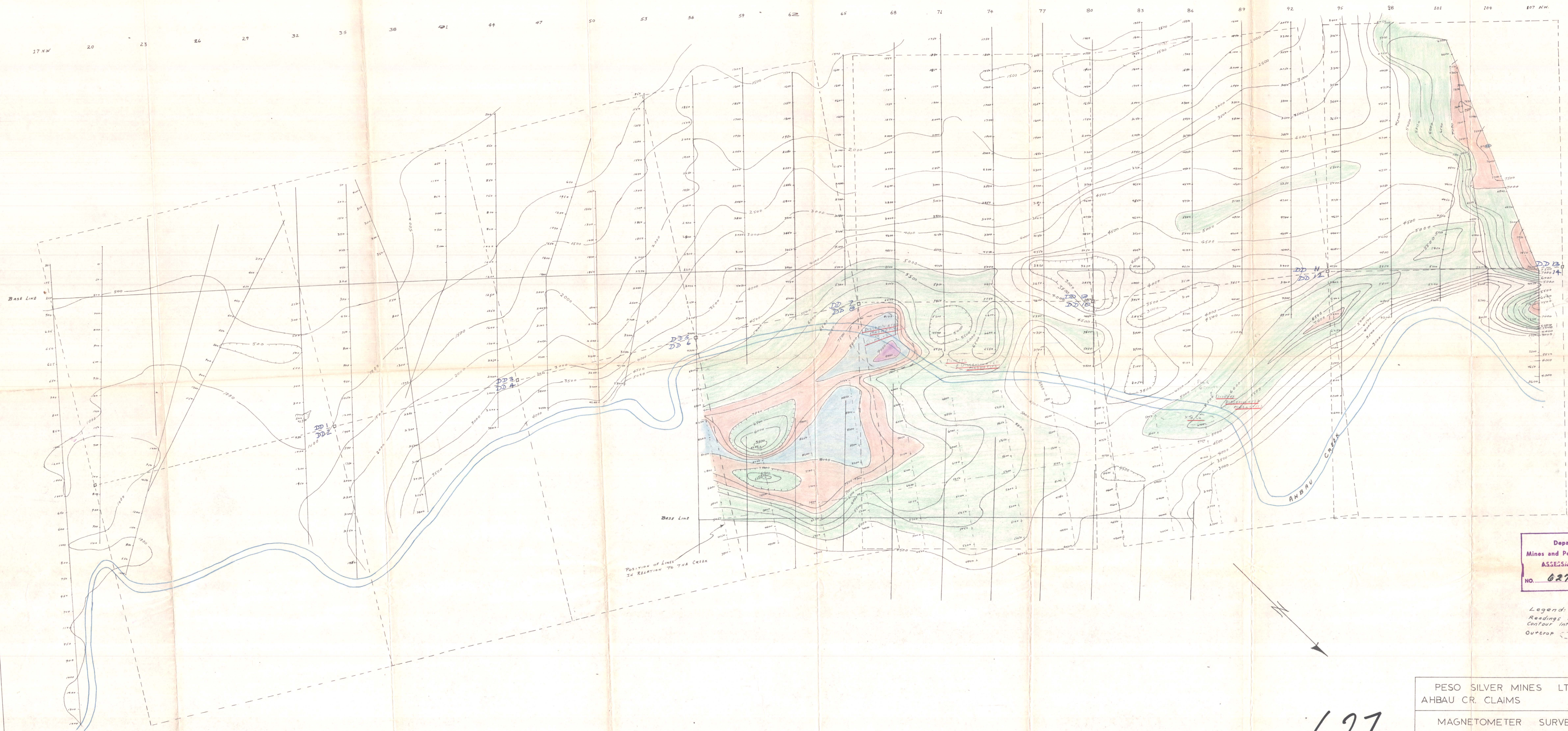
Born: January 16, 1930 at Kolar Gold Fields, S. India.

Height: 5' 10" Weight: 160 lbs.

Licences: B.C. Driver's Licence.
Private Pilot's Licence.

Interests: Photography, Judo.

<u>Date</u>	<u>Company</u>	<u>Area</u>	<u>Type of Work</u>
May - Sept./52	Quebec Dept. Mines	Chibougamau, Quebec	Student assistant to R. Smith on detailed mapping of base metals area.
May - Sept./53	Labrador M. & Exp. Co.	Labrador	Student assistant on detailed mapping 60 miles east of Knob Lake.
May - Sept./54	Britannia M & S Co.	Howe Sound, B.C.	Mapping & supervision of drilling on Bank of Vancouver copper prospect under A. Killin and D. Markland.
May - Sept./55	Jackson Basin M. Co.	Slocan, B.C.	Supervision of exploration on radioactive pegmatite prospect in Lemon Creek area. Surface & underground mapping & surveying at Jackson Basin Mine, Retallack, under J.S. Ives.
Sept-Jan./56	Trojan Exp.	Highland Valley, B.C.	Detailed mapping & general exploration on porphyry type copper prospect.
Jan - May/56	Jackson M. Ltd.	Highland Valley, B.C.	Supervisor of geochemical exploration on "Imperial" and "Transvaal" copper prospects.
May - Sept./56		Merritt, B.C.	Supervision of geological mapping of claims covering a copper-tungsten prospect, Swakun Mountain.
Oct.- Apr./57	Cons. Halliwell	Haiti, West Indies.	Mine Geologist. Supervision of 4 Surface drills & underground geological mapping. Logging of core & preparation of plans, sections & weekly reports.
July-Sept./57	Continental Mining & Ex.	Sioux Look Out, Ont.	Geological mapping of claims by contract.
June-Sept./58	Ultra Shawkey	Baffin I., N.W.T.	Prospecting & mapping of magnetite prospects. Drill supervision.
Apr./59 - Mar/61	James Richardson	Toronto	Research on mining securities under H. Reimer. Writing of reports on mining companies with evaluations of ore potential, management, financial structure & cash flow projections.
May - Sept./61	Peel Resources	Merritt, B.C.	Supervision of magnetometer & geochemical survey on claims lying to north of Craigmont. Prospect evaluations.
June-Oct./63	Belle Tahsis	Windermere	Surface & underground mapping on Ptarmigan high grade silver prospect.



Department of
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Legend:
Readings in gammas
Contour Interval 500 gammas
Outcrop

PESO SILVER MINES LTD (NPL)
AHBAU CR. CLAIMS QUESNEL

MAGNETOMETER SURVEY 1964
By F. Carter
J. Brock

Scale: 1" = 200' Date: May 30 1964 Drawn: F. Carter J. Brock

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Map to accompany Geophys. report - DD-14 M.C.S. 627