

DYNASTY EXPLORATIONS LIMITED

(N. P. L.)

328 MARINE BUILDING

355 BURRARD STREET

VANCOUVER 1, B. C.

May 12, 1965

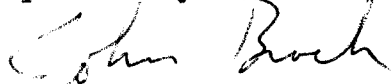
Chief Mining Recorder,
Federal Building,
Whitehorse, Y.T.

Dear Sir,

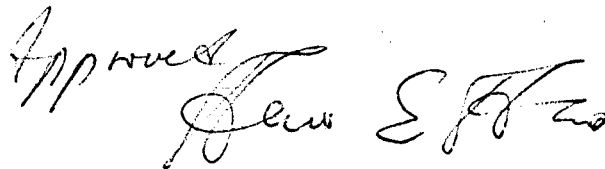
Submitted herewith for the purposes of assessment work is the following report 'Geophysical Investigations by Magnetic Methods on the Pea Claim Group'. The total costs incurred for this geophysical survey are to be applied as a portion of the assessment work required to hold the following mineral claims:

Pea 15 - 18	all claims for two years
Pea 20	
Pea 22 - 44	

Respectfully submitted,



John S. Brock

Approved


GEOPHYSICAL INVESTIGATIONS BY
MAGNETIC METHODS

Pea Claim Group

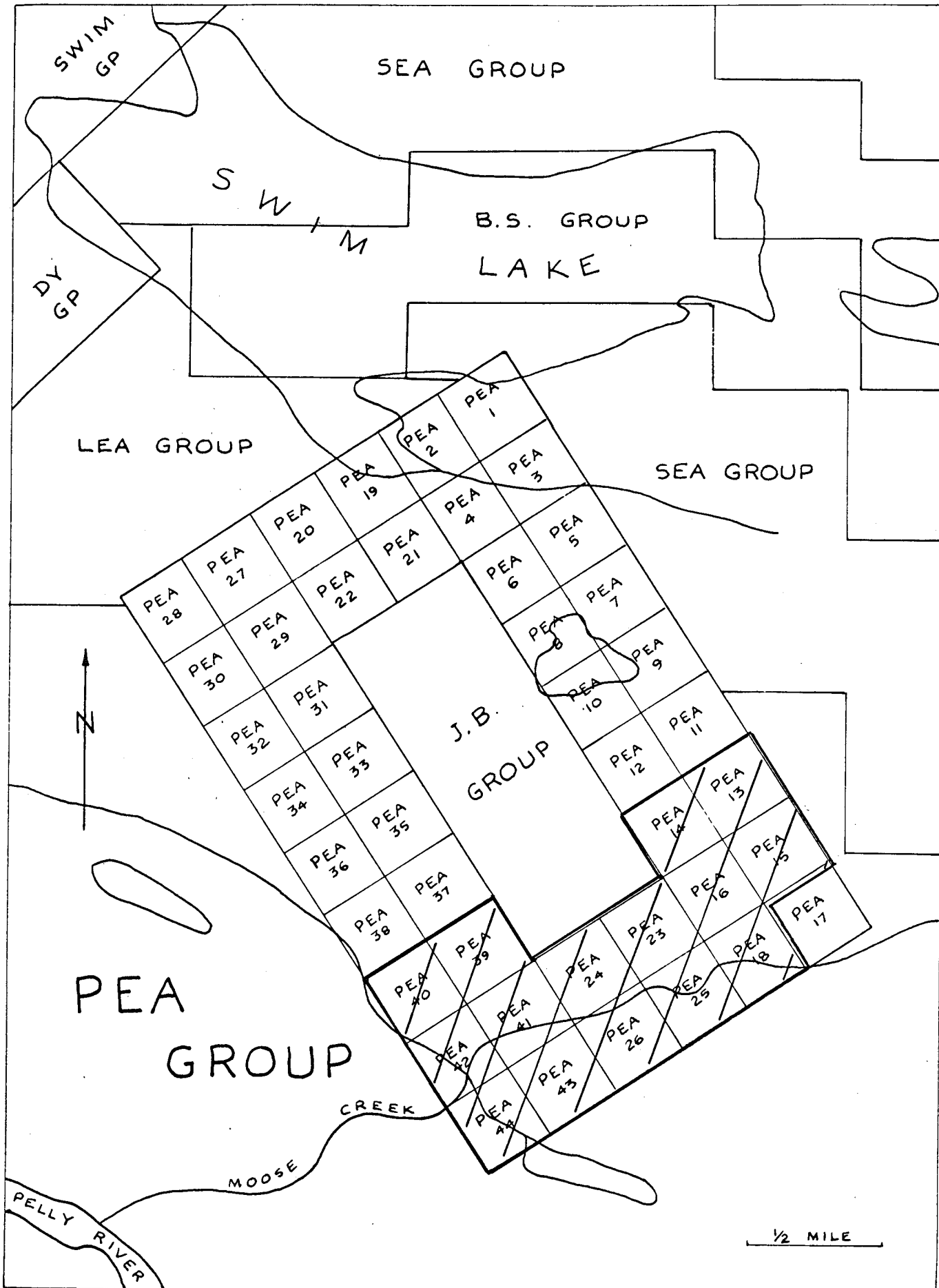
Location ^o
 132 55' W long.
 ^o
 62 11' N lat.

Reference Claim sheet 105 K2

WHITEHORSE MINING DIVISION
SWIM LAKES AREA, Y.T.

By John S. Brock

May 1965



Key map:

SURVEY AREA

GEOPHYSICAL INVESTIGATIONS BY

MAGNETIC METHODS

Pea Claim Group

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INTRODUCTION

General

The PEA Mineral claims were staked in May 1964 by Dynasty Explorations Limited in order to cover favorable ground. During August 1964, a portion of the PEA claim group was surveyed by ground magnetic methods. A Sharpe, A-3 hand held magnetometer, designed primarily for reconnaissance and mining exploration surveys, was used throughout the entire survey. The instrument is capable of measuring the vertical component of the earth's magnetic field with a sensitivity of approximately 25 gammas per vernier division. The magnetometer survey was conducted by Andrew Harman, an employee of Dynasty Explorations Limited.

Location and Access

The magnetometer survey was carried out over a portion of the PEA mineral claims located on the west limit of Moose Creek, two miles north of the Pelly River and two miles southeast of Swim Lake. The area is of moderate to flat-lying relief and is situated in a broad valley occupying the Moose Creek drainage system. Much of the originally timbered areas have been burned over, in which areas thick growths of dwarf birch now predominate. Large expanses of swamp and muskeg are characteristic of flat-lying areas of low relief.

At the time of survey, access to the property was made by foot from Swim Lake, 130 air miles northeast of Whitehorse. Late in 1964 a tote road was constructed from the mouth of Moose Creek to Swim Lake, access may now be made by means of this road which passes through the claim group.

GEOLOGY

Quartzose blebs are intercalated with a very limy, leached light grey, sericite schist which contains minor chalcopyrite in a highly folded area near a greenstone contact.

Structurally, the environment is apparently near the crestal region of a concentrically warped isoclinal infold of sericite schist in greenstone and chlorite schist. Elsewhere (Southeastern Dy group) this infold contains graphite and rusty phyllite. The evidence for this infold is poor.

Further explorations along this structure might possibly show mineralization, but thicknesses may be narrow. (From "Geology and Mineral Deposits of the Vangorda District, Central Yukon," a private report to Dynasty Explorations Limited by John F. Fairley.)

Outcrops found in the area of the magnetometer survey are of greenstone, regional geologic evidence suggests that the eastern end of the PEA Claim Group may be completely underlain by the greenstone formation. The Moose Creek fault is thought to border the south end of the claim group.

METHOD OF SURVEY

Grid System

Base and tie lines were cut over the PEA claim group by contracted line cutters from Ross River, Y.T. Survey control was maintained by picket and chain methods. 42,000 feet of line were cut over the entire claim group, however not all of the grid was used for the actual magnetometer survey. Northwest-southeast base lines were established at 15+00 NE, 30+00 NE and 60+00 NE, a tie line at 0+00 SE was cut over the survey area. Base stations were established

at 400-foot intervals on the base lines. The magnetometer survey was conducted on northeast-southwest cross lines at 400-foot spacing with a 200-foot station interval located by pace and compass. The terminal points of each pace and compass cross line corresponded with the 400-foot spaced base line stations.

Magnetometer Survey

Each base station was read with the magnetometer prior to the cross-line survey. Base stations were given magnetic values corrected for diurnal variation by 'looping' methods. Use of pre-determined magnetic values at the terminal points of each of the cross lines provided a fast and accurate method of correcting diurnal variation for each line relative to the survey area.

TREATMENT OF DATA

All field readings were recorded directly as read from the vernier scale of the magnetometer. Conversion to gamma values was carried out by means of a 'vernier division-gamma value conversion curve', supplied for the particular magnetometer used during the survey. Values were then corrected for diurnal variation by the method mentioned. An absolute background of 50,000 gammas was adopted.

After corrections and reduction of data was carried out, all gamma values were plotted on a base map (see appendix) in accordance with the station at which they were derived. The results were then contoured using iso-magnetic contours of 100 gamma interval (see appendix).

INTERPRETATION OF RESULTS

Magnetic results as obtained over the southeastern portion of the PEA mineral claim group, are considered to be generally inconclusive in nature. No anomalous values indicating anomalous geologic structures or sulphide mineralization of magnetic content were outlined. The area is thought to be underlain entirely by greenstone formation, magnetically there is no evidence of the Moose Creek fault or greenstone contacts with other rock formations.

CONCLUSIONS AND RECOMMENDATIONS

The southeast area of the PEA claim group appears to be of no economic significance in view of the magnetometer survey results. It is recommended that no further work be conducted on this portion of the claim group and that the claims surveyed be dropped after one year.

Respectfully submitted,

John S. Brock

Approved by:

Approved
JS Brock

GEOPHYSICAL INVESTIGATIONS BY
MAGNETIC METHODS ON
THE PEA CLAIM GROUP

Appendix

Appendix 1

Personnel

Magnetometer operator	Andrew Harman Salmo, B.C.
Assistant	William Barclay Vancouver, B.C.
Linecutters	John Ollie William Peter George Steriah Alex Shorty All of Ross River, Y.T.
Supervision	R.E.G. Davis Vancouver, B.C.
Report	John S. Brock West Vancouver, B.C.

Statement of Expenditure

Linecutting	a) footage	42,000	
	b) contract	\$7/1000'	
	cost		\$294.00
Magnetometer Survey	a) operator	\$14.50/day	
	b) time	9 days	
	cost		130.00
	c) camp cost @ \$6/day		54.00
	d) supervision		75.00
	e) report		<u>125.00</u>
	Total geophysical assessment		\$678.00

Appendix 2

AFFIDAVIT Supporting Statement of Expenditure,
Magnetometer Survey, Pea Claim Group

I, John S. Brock, of West Vancouver, British Columbia, have compiled the statement of costs (Geophysical Investigations by Magnetic Methods on the Pea Claim Group).

I make oath and say that to the best of my knowledge and belief, the statement of costs as presented in this report, is both true and an accurate representation of expenditure to be applied as a portion of the assessment work on the Pea Mineral Claims.

Sworn and subscribed to
at Cub Lake, Swim Lakes
area, Y.T., this 30th
day of MAY 1965.

John Brock

Alan Klein
A commissioner for taking
affidavits, in and for the
Yukon Territory

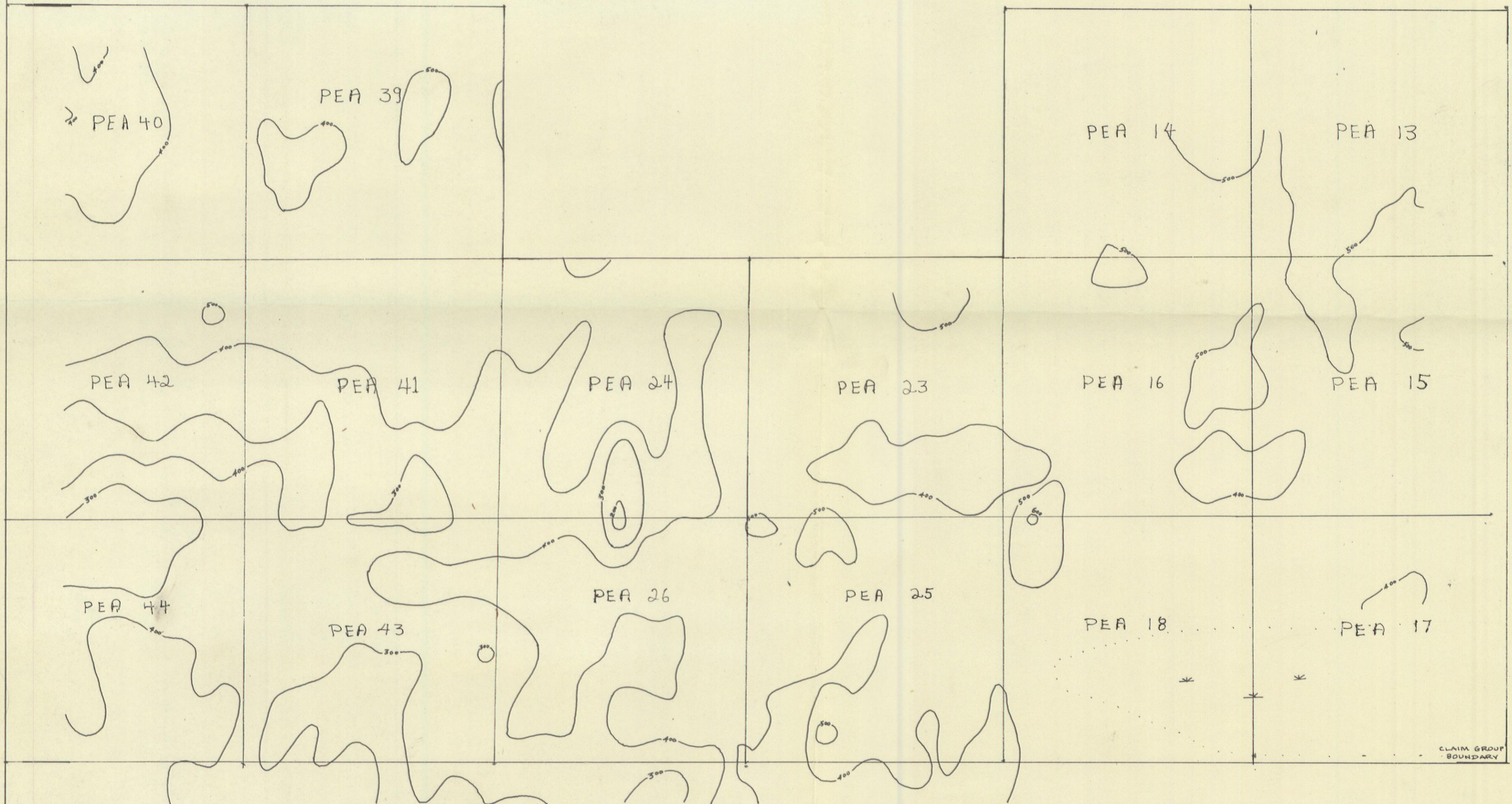
Gandy Harman
Witness (signed in presence
of commissioner of oaths)

PEA GROUP MAGNETOMETER SURVEY

SOUTHEAST

ABSOLUTE BACKGROUND 50,000 GAMMAS

CONTOUR INTERVAL 100 GAMMAS



SCALE 0 500 1000 1500 FEET

