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Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. 523 MAP

APPENDIX "A"

Statement of Qualifications of Owen Hairsine,

Geophysical Operator on the

DAT Claim Group

1961 - Two months experience as learner and helper on magnetometer and electromagnetometer surveys using ABEM equipment

1962 - Five months experience as helper and operator on magnetometer and electromagnetometer surveys using ABEM equipment

APPENDIX "B"

STATEMENT OF COSTS OF SURVEY

Line cutting:

Labour: \$ 1235.13
 maintenance: 460.50 \$ 1695.63

Surveying and mapping:

Labour: 886.88
 maintenance 232.50 1119.38

Engineering & direct supervision: 515.63

Printing, maps & Report: 75.00

Transportation:

vehicle rentals: 150.00
 fuel : 116.25 316.25
 Instrument rental : 22 days @ 25.00 550.00

Total: \$ 4271.89

Details of salaries and wages:

<u>Name</u>	<u>Category</u>	<u>Rate</u>	<u>Dates worked.</u>	<u>Wage</u>	<u>Time</u>
R. Adamson	Supervisor	\$825.00/mo.	May 12-Jun 15th/63	\$515.63	28 days
F. Foran	linecutter	495.00	May 23-Jun 15th/63	390.50	23 "
L.J.Fulford	"	550.00	May 8-May 15th/63	137.50	8 "
E. Greer	"	550.00	" 8- May15th/63	137.50	8 "
J.Roscoe	"	550.00	" 8- " 15th/63	137.50	8 "
A.Romberg	"	440.00	" 8 " 15th/63	102.13	8 "
W.A. Allen	cook	440.00	" 23-June 15th/63	330.00	23 "
O.Hairsine	Inst.Operator	440.00	" 23-Jun 15th/63	330.00	23 "
R. Miranda	" Helper	385.00	" 23 " 15th/63	288.75	23 "
B.Watson	" "	365.00	" 23 " 15th/63	268.13	23 "

I make this solemn declaration conscientiously it to be true, and knowing that it is of the same force and effect as if made under oath, and by virtue of the "Canada Evidence Act".

Declared before me at the *City*
 of *Princeton*, in the
 Province of British Columbia, this, *15*
 day of *November 1963* A.D.

Roderick W. ...

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

JULIAN MINING COMPANY LIMITED

SENSITIVE MAGNETOMETER SURVEY
OF THE
DAT CLAIM GROUP

Introduction:

The Dat claim group consists of 20 claims, the Dat 401 to 412 inclusive, Dat 412 fr and 413 fr, and Dat 415 to 420 inclusive. These claims were staked in October, 1962 and recorded in November of the same year. They are located on the Omineca Mining Division of British Columbia and were staked to cover an area underlain by Jurassic granodiorite, suspected to be favorable for the deposition of molybdenite.

Reconnaissances in the area established the claim area is masked with overburden, with few exposures of bedrock although both east and west of this claim-group exposures of intrusives and volcanics are known. In May and June of this year, a detailed magnetometer survey using an AB ELEKTRISK Magnetometer Type 1263, No 4505 was conducted over the claim group. The instrument has a sensitivity of 10 gammas per scale division.

Description:

The claims occupy an area on the north side of the Caribou Plateau on the border between the semi-arid and rain-forest region. They are located in a saddle and area sloping toward Francois Lake east of Savory Ridge and are located on Topographic Map 93 K/E in the Prince George Land District. The location is approximately nine miles southwest of Endako B.C. and the claims are located between the DIS Group on the West and the ROB and NU-Elk Groups on the east. Ground covers vary from dense second growth in the south to areas of burned and fallen second-growth trees, in the north. There are not any access roads on the claims.

Geology:

Little is known of the geology of the rocks underlying the claim group. Some 3000 ft east of the claim block, drilling in 1962, established that moderately to intensely altered Topley granodiorite occurs for a distance of over 1000 ft. Lamprphyre dykes, steep dipping were also intersected and sparse occurrence of an aplite is known. West of this claim block, granodiorite is sparsely exposed and volcanic rocks are known to invade on the west boundary of the Adjoining DIS group.

Airphoto examination indicates a major linement traverses the middle of this block on a north seventy degree west strike and can be traced on the adjoining Dis and Nu claims and on the Elk group which adjoins the Nu on its east boundary.

Reasons for the survey:

This type of magnetic survey has been done on a number of blocks of claims in this area by this company. The primary purpose of each survey has been, as in this case, to attempt to differentiate intrusive and extrusive rocks by their magnetic characteristics, and to attempt to differentiate between degrees of alteration of the granodiorite. Magnetic surveys using the same instrument have now been completed on seventy claims in this area and some work has been done on adjoining ground owned by others. It is anticipated with the completion of one smaller project the trend of magnetism with respect to known deposition of molybdenite may be determined.

Details of the survey:

A north-south base line was chained and marked along the approximate centreline of the claim block and east west tie-lines were cut and chained and marked at intervals of 3000 ft. Magnetometer survey lines established at intervals of 400 ft running north-south and these lines were, together with the base line and the tie-lines, chained and marked at intervals of 100 ft to provide stations for recording magnetic intensities.

The procedure for taking readings with the magnetometer and recording them is as follows:

A base station was established off the claim group and during the survey the magnetism at this station was recorded at the start and end

of each work day. A circuit base station was established to permit circuit of readings of approximately two-hour duration this station intensity was recorded at the start and end of each circuit. The intensity of magnetism at each station on the circuit was corrected, first for the circuit -base station difference, if any, and , secondly, for any daily variations from the original readings taken at the base station. The corrected readings of intensity were converted to gammas and plotted on a map on a scale of 400 ft to one inch.

Discussion of survey results:

(Note: this discussion relates the results obtained on this survey and similar work on the DIS group and the ELK group, west and east, respectively of the DAT group).

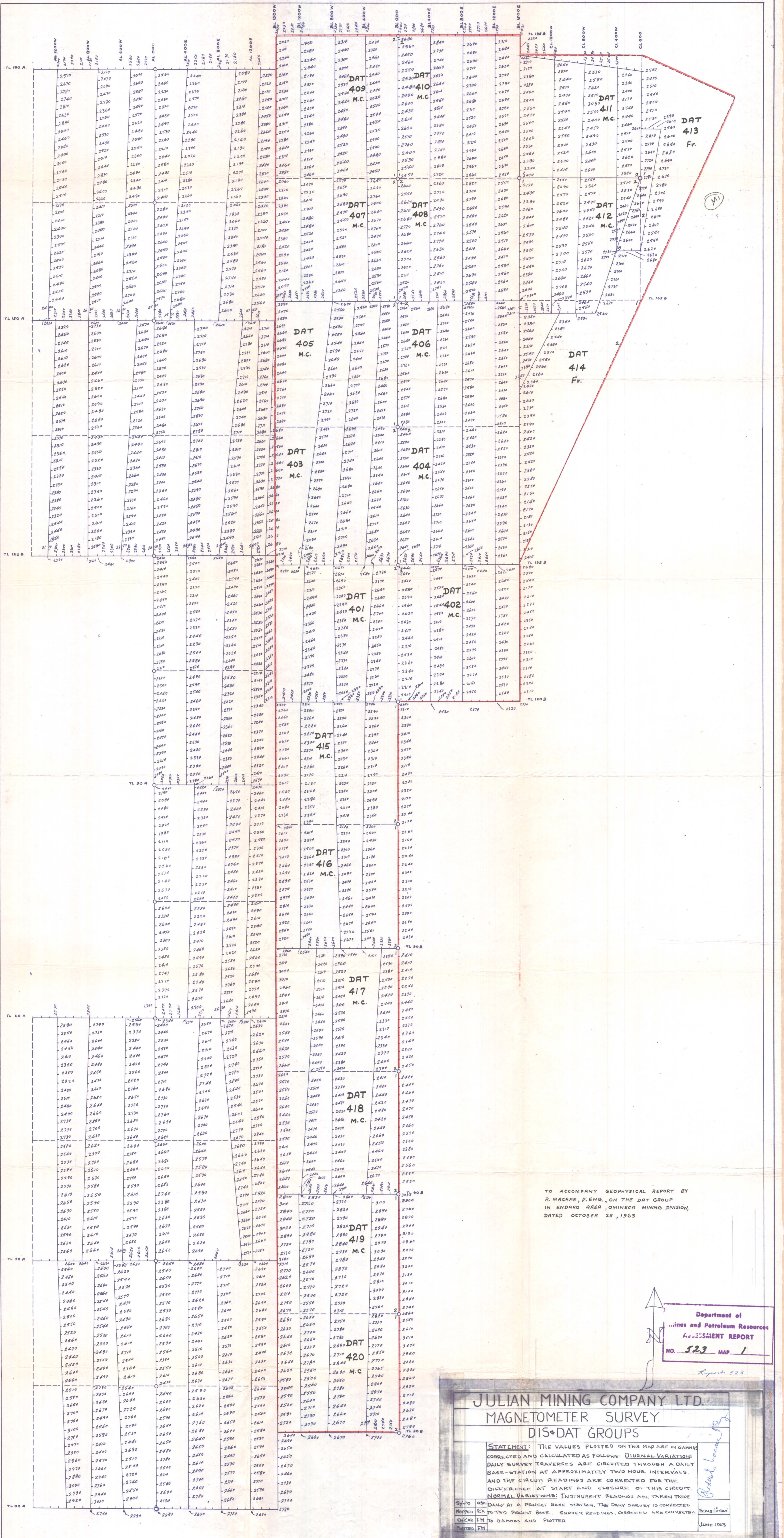
Amagnetically "high" ridge occurs following a broad gentle north-south oriented curve, from east side of DAT420 to the north-centre of DAT 410. This curve of high intensity touches on the DIS group, adjoining on the west and roughly bisects two magnetic "low" troughs located as follows:

the west trough has its locus west of the west boundary of the DIS group, outlines an inverted fishhook, which touches the s.w. corner of the DIS group and re-enters the group on the north side of DIS # 36. The east trough lies entirely east of the DAT group east boundary , outlines one half of a north 30 degree-^(east)axis lense. Abrupt variations in the axis of lows and highs on claims DAT 404 and 405 may record the trace of a possible fault following the linement referred to in the geological statement.

October 25th, 1963

respectfully submitted,


Roderick Macrae P.Eng.



TO ACCOMPANY GEOPHYSICAL REPORT BY
 R. MACRAE, P. ENG., ON THE DAT GROUP
 IN ENDARO AREA, OMINECA MINING DIVISION,
 DATED OCTOBER 25, 1963

Department of
 Mines and Petroleum Resources
 GEOPHYSICAL REPORT
 NO. 523 MAP 1

Report 523

JULIAN MINING COMPANY LTD.
MAGNETOMETER SURVEY.
DIS-DAT GROUPS

STATEMENT: THE VALUES PLOTTED ON THIS MAP ARE IN GAMMAS
 CORRECTED AND CALCULATED AS FOLLOWS: DIURNAL VARIATION;
 DAILY SURVEY TRAVERSES ARE CIRCUITED THROUGH A DAILY
 BASE-STATION AT APPROXIMATELY TWO HOUR INTERVALS,
 AND THE CIRCUIT READINGS ARE CORRECTED FOR THIS CIRCUIT.
 NORMAL VARIATIONS: INSTRUMENT READINGS ARE TAKEN THREE
 TIMES DAILY AT A PROJECT BASE STATION, THE DAILY SURVEY IS CORRECTED
 MAPED EA TO TWO PROJECT BASE. SURVEY READINGS, CORRECTED ARE CONVERTED
 GAMMAS FM TO GAMMAS AND PLOTTED

SCALE: 1:400
 JUNE 1963