

MAP No.

ASSESSMENT REPORT  
PROSPECTUS  
CONFIDENTIAL  
OPEN FILE

DOCUMENT NO.: 091748

MINING DISTRICT: Dawson

TYPE OF WORK: Geophysical

116 B 3

REPORT FILED UNDER: Gallant Gold Mines Ltd.

DATE PERFORMED: 2 June - 16 Dec '86 DATE FILED: 27 March 1987

LOCATION	LAT.	64° 01'N
	LONG.	139° 14'W

AREA: Bear Creek and Hunker Creek

CLAIM NAME & NO.      MOON 1-33      YA79671-735  
    EHYOU 1-10      YA79870-879

VALUE \$ 1,024.82
WORK DONE BY:
WORK DONE FOR:
DATE TO GOOD STANDING

P.E. Walcott & Assoc. Ltd.; Mark Management Ltd.

Gallant Gold Mines Ltd.

REMARKS: #90 DAWSYND

PETER E. WALCOTT & ASSOC. LTD.

A REPORT

ON

A MAGNETIC SURVEY

Dawson Area, Yukon Territory

64° 01'N, 139° 14'W

N.T.S. 116 B/3

Claims surveyed: MOON 41 - 44, 46 - 49

Survey Dates: June 2nd - December 16th, 1986

FOR

Operator: GALLANT GOLD MINES LTD.  
Vancouver, B.C.

Owner: W. T. Dawson

by

PETER E. WALCOTT & ASSOCIATES LTD.  
Vancouver, B.C.

FEBRUARY 1987

09 17 48

GEOPHYSICAL SERVICES

This report has been examined by  
the Geological Evaluation Unit  
under Section 53 (4) Yukon Quartz  
Mining Act and is allowed as  
representation work in the amount  
of \$ 1024.82 .

*DAEmond*

*for*

Regional Manager, Exploration and  
Geological Services for Commissioner  
of Yukon Territory.

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MAP POCKET

CLAIM & GRID LOCATION MAP ... 1:50,000	
CONTOURS OF TOTAL FIELD INTENSITY ... 1:50,000	W-393-14

INTRODUCTION.

Between June 2nd and December 16th, 1986, Mark Management Ltd. carried out magnetic surveying over part of a property, located in the Dawson area of the Yukon Territory, for Gallant Gold Mines Ltd.

Measurements of the total intensity of the earth's magnetic field were taken at 25 metre intervals along four north-south lines using a Geometrics G-816 proton magnetometer.

The results are presented in contour form on a plan map of the line grid - Map W-393-13, that accompanies this report.

PROPERTY, LOCATION & ACCESS

The property is located in the Dawson Mining District of the Yukon Territory, and consists of the following claims:

<u>CLAIM</u>	<u>GRANT NO.</u>	<u>ANNIVERSARY</u>
MOON 1-33	YA79671-735	February 27th
EYOU 1-10	YA79870-879	May 22nd

These are situated on and to the east of Bear creek some ten kilometres southeast of the town of Dawson.

Access is obtained by means of four wheel drive vehicle off Hwy #2.

PREVIOUS WORK.

Work was first believed to have been carried out on the property during the Klondike gold rush of 1897-98, the colourful history of which has been documented by many.

Recently Gallant Gold Mines Ltd. conducted an airborne electromagnetic and magnetic survey, the results of which are documented in reports held by the Company.

PURPOSE.

The purpose of the survey was to see if any magnetic signature was associated with the possible contact between the carbonaceous Nasina rocks and the muscovitic Klondike schists on the western part of the grid.

GEOLOGY.

General. The Klondike district was first mapped by Bostock (1942), and more recently by Metcalfe (1981) and Debicki (1985 and 1984). Bedrock in the Klondike area is generally grouped into five major units which are, from oldest to youngest, the Nasina Series, the Klondike Series, the Moosehide Assemblage, early Tertiary volcanics/volcanoclastics and Tertiary intrusives.

Rocks of the Nasina Series consist of graphitic schists, graphitic quartzites and siliceous marbles with minor chlorite schists and muscovite schists. These rocks have been metamorphosed to grades ranging from upper greenschist to middle amphibolite facies, and may represent metamorphosed outer shelf sediments of the ancient North American continent.

Most rocks exposed in the Klondike district predominantly belong to the Klondike Series. These are quartzofeldspathic schists containing varying amounts of chlorite, muscovite, and sericite. They have undergone upper greenschist to middle amphibolite grade metamorphism and at least four separate deformational events. This series appears to represent metamorphosed interbedded sediments and rhyolitic to andesitic tuffs. The contact between schists of the Klondike series and graphitic schists of the Nasina series is sheared, and suggests that the Klondike series represents an allocthonous assemblage which has been thrust over Nasina shelf strata. To the west the Klondike schists are in contact with a blocky weathering, granitic textured, biotite-quartz-feldspar rock which does not appear as highly metamorphosed as the Klondike schists. Thin section studies of these rocks indicate that they were originally medium to coarse grained plutonic rocks of granodioritic to quartz diorite composition, and may represent the magmatic source for those tuffs now comprising the Klondike Series.

Structurally overlying rocks of the Klondike and Nasina series are occurrences of greenstone and altered ultramafics belonging to the Moosehide Assemblage. Included in the ultramafic unit are a great variety of rock types including massive, partially serpentized peridotite (harzburgite), massive to sheared serpentinite, silicarbonate altered serpentinite, and talc-carbonate schist. Massive greenstone and strongly altered,

fine to medium grained diabase are exposed in several steep bluffs in the vicinity of Dawson. These rocks are unfoliated and form part of a slab of greenstone and serpentinite that underlies the southwestern slope of the Midnight Dome east of Dawson. Occurrences of greenstone and ultramafic rocks are commonly found along the sheared contact between the Klondike and Nasina series rocks. They are thought to represent exotic slices of uncertain origin structurally emplaced during the thrust faulting.

Gently folded andesitic volcanics and clastic sediments are present in the Last Chance Creek area. These rocks were considered to be early Tertiary in age; however, recent work on similar rocks in the Indian River area suggests that these rocks are middle Cretaceous in age. Intrusive rocks are present as numerous dykes and sills ranging in nature from diabase to rhyolite. Larger Tertiary intrusive bodies are rare in the Klondike except for a rhyolite porphyry stock that outcrops along Hunker Creek. Isotopic dating (Debicki) indicates that the porphyry is approximately 50 to 60 million years old.

GAL Grid. The local geology in the vicinity of the Gal grid is not well understood due to the lack of outcrop and diamond drill hole information. Interpretation from regional scaled mapping shows that a mass of biotite bearing feldspar-quartz schist underlies the area. This unit resembles the metagranodiorite found to the west of Bonanza creek, which is thought to represent the intrusive equivalent of the Klondike Schist metovolcanics. Diamond drilling near Bear creek intersected muscovitic schists of the Klondike series interbedded with graphitic schists, apparently of the Nasina series.

SURVEY SPECIFICATIONS.

The magnetic survey was carried out using a G-816 proton precession magnetometer manufactured by EG & G Geometrics of Sunnyvale, California. This instrument measures variations in the earth's magnetic field to an accuracy of plus or minus 1 gamma. Corrections for diurnal variations were made by comparison with readings taken at five minutes intervals throughout the day at a fixed base with a similar instrument.

In all some 7.2 kilometres of surveying were carried out by this method.

DISCUSSION OF RESULTS.

The results as seen on Map W-393-14 showed very little magnetic relief to exist on the property, and thus no suggestion of any magnetic contact between rock types.

Small linear magnetic features of the type associated with hydrothermal activity along existing fault/shear zones were also not observed.

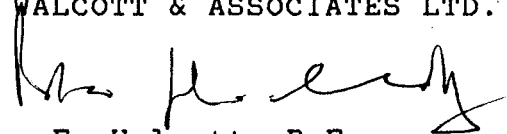
SUMMARY AND CONCLUSIONS.

Between June 2nd and December 16th, 1986, Mark Management Ltd. carried out a small ground magnetic survey over part of a property in the Dawson area, Yukon Territory, optioned by Gallant Gold Mines Ltd.

The results failed to show any linear magnetic features of the type associated with hydrothermal alteration and existing shear zones to occur on that part of the property surveyed.

Respectfully submitted,

PETER E. WALCOTT & ASSOCIATES LTD.



Peter E. Walcott, P.Eng.  
Geophysicist

Vancouver, B.C.

February 1987

PETER E. WALCOTT & ASSOC. LTD.

A P P E N D I X

GEOPHYSICAL SERVICES

GAG/DAW 1986  
2 JUNE-16 DECEMBER  
GENERAL COSTS

<u>FOOD &amp; ACCOMMODATION, 10 MAN DAYS @ \$24.89</u>		\$	248.87
<u>SUPPLIES</u>			501.24
<u>FUEL</u>			363.96
<u>TELEPHONE SERVICES</u>			47.30
<u>SHIPPING</u>			39.00
<u>FIXED WING</u>			126.30
<u>RENTALS</u>			
AIRWAYS 4WD PU, 3 DAYS @ \$43	\$		129.00
AIRWAYS 4WD BLAZER, 3 DAYS @ \$43			129.00
EZEKIEL FIELD EQUIPMENT, 10 MAN DAYS @ \$6		<u>60.00</u>	318.00
<u>DRAFTING</u>			104.00
<u>CONSULTANT FEES</u>			
ADDER EXPLORATION & DEVELOPMENT LTD.			<u>225.00</u>
<u>TOTAL GENERAL COSTS</u>		\$	<u><u>1,973.67</u></u>

LINE-CUTTING, FLAGGING, SURVEYING COST

<u>SALARIES &amp; WAGES</u>			
S. TOMLINSON, 3 DAYS @ \$120.20		\$	360.60
<u>BENEFITS @ 20%</u>			72.12
<u>GENERAL COSTS APPORTIONED</u>			
3/10 X \$1,973.67			<u>592.10</u>
<u>TOTAL LINE-CUTTING, FLAGGING, SURVEYING COST</u>		\$	<u><u>1,024.82</u></u>

GEOCHEMICAL SURVEY COST

<u>SALARIES &amp; WAGES</u>			
S. TOMLINSON, 3 DAYS @ \$120.20	\$		360.60
J. BOSHER, 2 DAYS @ \$115.39			230.78
E. TIMOSHINKO, 2 DAYS @ \$92.31		<u>184.62</u>	\$ 776.00
<u>BENEFITS @ 20%</u>			155.20
<u>ASSAYS &amp; ANALYSES - CHEMEX LABS</u>			
131 SOILS FOR AU, HG, & 30-ELEMENT ICP @ \$19.25			2,521.75

GEOCHEMICAL SURVEY COST CONT'D.

<u>BALANCE FORWARDED</u>	\$ 2,521.75
<u>GENERAL COSTS APPORTIONED</u> 7/10 X \$1,973.67	<u>1,381.57</u>
<u>TOTAL GEOCHEMICAL SURVEY COST</u>	<u>\$ 4,834.52</u>

A/B GEOPHYSICAL SURVEY

<u>AERODAT LIMITED</u>	<u>\$ 36,000.00</u>
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PERSONNEL EMPLOYED ON SURVEY.

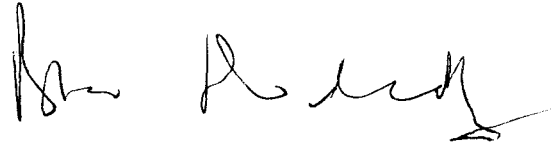
<u>NAME</u>	<u>OCCUPATION</u>	<u>ADDRESS</u>	<u>DATES</u>
P. Grunenberg	Geologist	Mark Management Ltd. 1900 999 W. Hastings Vancouver, B.C.	June 2-Dec.16 1986
S. Tomlinson	"	"	"
J. Bosher	"	"	"
E. Timoshenko	"	"	"
G. MacMillan	Draughting	Peter E. Walcott & Assoc 605 Rutland Court, Coquitlam, B.C. V3J 3T8	Jan.3-5th, 1987
V. Pashniak	"	"	"
P. Walcott	Geophysicist	"	Dec. 16,86 Jan 14 & 15, 1987
J. Walcott	Typing	"	Feb. 20, 1987

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CERTIFICATION.

I, Peter E. Walcott, of the Municipality of Coquitlam, British Columbia, hereby certify that:

1. I am a Graduate of the University of Toronto in 1962 with a B.A.Sc. in Engineering Physics, Geophysics Option.
2. I have been practising my profession for the last twenty years.
3. I am a member of the Association of Professional Engineers of British Columbia and Ontario.
4. I hold no interest, direct or indirect, in the securities or properties of Gallant Gold Mines Ltd.

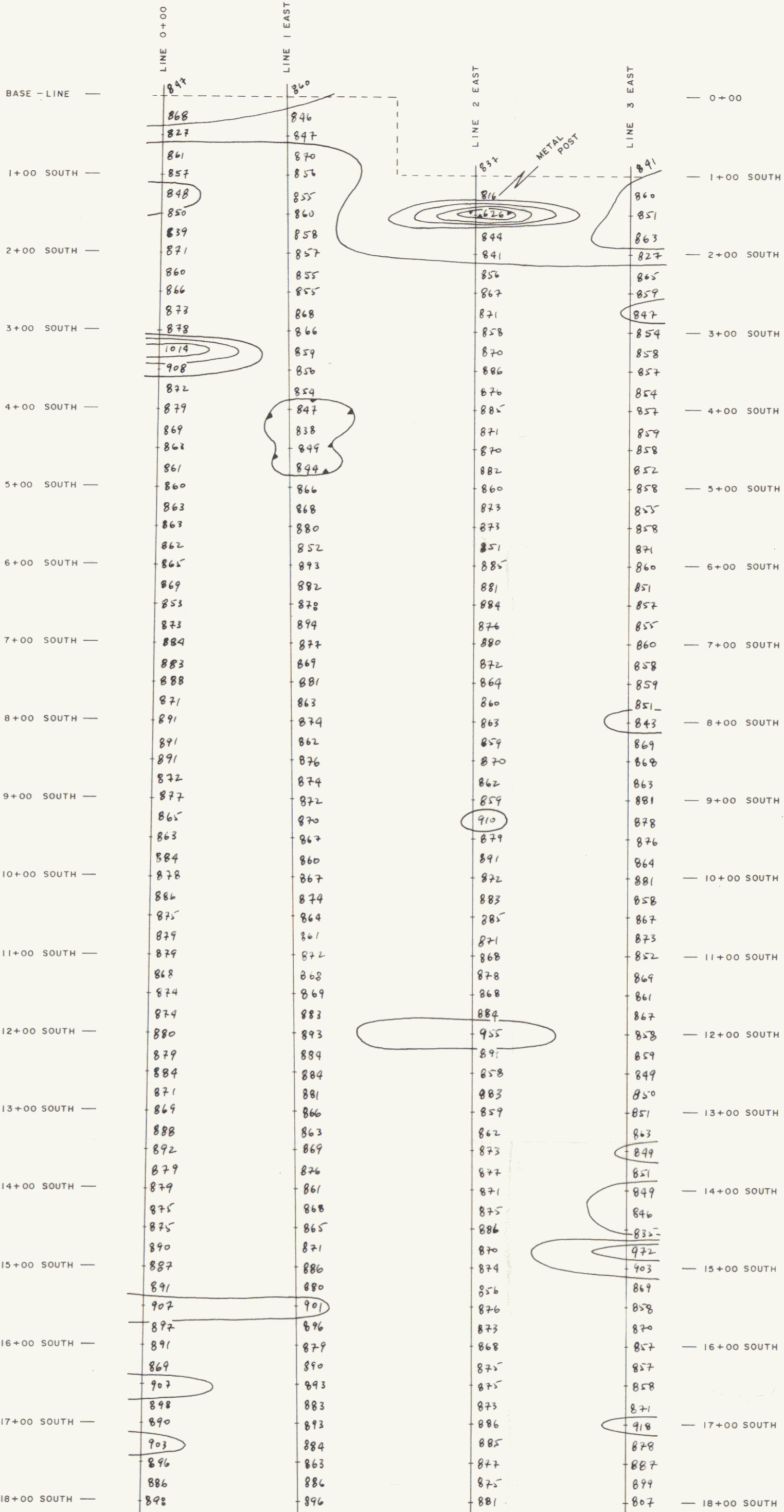


Peter E. Walcott, P.Eng.

Vancouver, B.C.

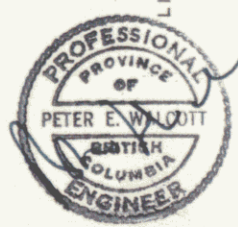
February 1987





N.B. ADD 57,000 GAMMAS TO ALL READINGS

GALLANT GOLD MINES LTD.  
 GAL GRID ; DAWSON AREA , Y.T.  
 MAGNETOMETER SURVEY  
 CONTOURS OF TOTAL FIELD INTENSITY  
 ( IN GAMMAS )  
 SCALE 1:5,000  
 MAP No. W - 393 - 13 **091748** AUGUST - 1986



1455

GAG/DAW 1986  
2 JUNE-16 DECEMBER  
GENERAL COSTS

<u>FOOD &amp; ACCOMMODATION, 10 MAN DAYS @ \$24.89</u>		\$	248.87
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