

MAP No.

115 0 14,
116 B-3

ASSESSMENT REPORT
PROSPECTUS
CONFIDENTIAL
OPEN FILE

DOCUMENT NO.: 091751

MINING DISTRICT: Dawson

TYPE OF WORK: Geophysical

REPORT FILED UNDER: Standard Gold Mines Ltd.

DATE PERFORMED: June 2 - Dec. 16, 1986

DATE FILED: 27 March, 1987

LOCATION	LAT.	64° 01'N
	LONG.	139° 16'W

AREA: Klondike River

CLAIM NAME & NO. SHARON 1-33 YA9638-670
 35-39 YA84291-295
 40-59 YA84408-427

VALUE \$ 3,688.06	
WORK DONE BY:	P.E. Walcott & Assoc. Ltd.; Mark Management Ltd.
WORK DONE FOR:	Standard Gold Mines Ltd.
DATE TO GOOD STANDING	REMARKS: #90 DAWSYND

PETER E. WALCOTT & ASSOC. LTD.

A REPORT
ON
A MAGNETIC SURVEY

Dawson Area, Yukon Territory
64° 01'N, 139° 16'W
N.T.S. 115 O/14 & 116 B/3

Claims surveyed: SHARON 14, 15, 20, 21, 26, 27, 29, 30

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

FOR

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

Owner: W. T. Dawson

by

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

FEBRUARY 1987

09 17 51

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 \$ 3688.06.

for *D.A. Emord*
Regional Manager, Exploration and
Geological Services for Commissioner
of Yukon Territory.

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ACCOMPANYING MAPS

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 Standard Gold Mines Ltd.

Measurements of the total intensity of the earth's magnetic field were taken at 25 metre intervals along eight N 7° E 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-393-14, 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>
SHARON 1-33	YA79638-670	February 2nd
" 35-39	YA84291-295	July 24th
" 40-59	YA84408-427	August 1st

These are situated on and around Quigley Gulch some seven 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 Standard 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 fault contact between the carbonaceous Nasina rocks and the muscovitic Klondike schists on the southern 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.

SH Grid. The "SH" grid overlies a regional contact between carbonaceous schists of the Nasina Series to the north and muscovitic schists of the Klondike Series to the south. This contact is noted to be fault related as mapped along Hunker Creek. No evidence of faulting was encountered during prospecting on the grid.

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.

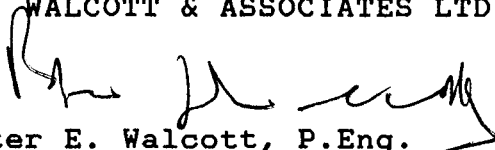
SUMMARY AND CONCLUSIONS.

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 Standard Gold Mines Ltd.

The results failed to indicate any magnetic activity to be associated with the possible fault contact between the carbonaceous rocks and the Klondike schists, and suggest no hydrothermally altered material to exist therein.

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

SDA/DAW 1986
2 JUNE-16 DECEMBER
GENERAL COSTS

<u>FOOD & ACCOMMODATION, 15 MAN DAYS @ \$38.05</u>	\$	570.80
<u>SUPPLIES</u>		537.57
<u>FUEL</u>		289.40
<u>TELEPHONE SERVICES</u>		53.33
<u>FIXED WING</u>		126.61
<u>FEES</u>		33.00
<u>SHIPPING</u>		276.00
<u>RENTALS</u>		
AIRWAYS 4WD PU, 5 DAYS @ \$43	\$ 215.00	
AIRWAYS 4WD BLAZER, 5 DAYS @ \$43	215.00	
EZEKIEL FIELD EQUIPMENT 15 MAN DAYS @ \$6	<u>90.00</u>	520.00
<u>DRAFTING</u>		278.19
<u>CONSULTANT FEES</u>		
ADDER EXPLORATION & DEVELOPMENT		<u>225.00</u>
<u>TOTAL GENERAL COSTS</u>	\$	<u><u>2,909.90</u></u>

LINE-CUTTING, FLAGGING, SURVEYING COST

<u>SALARIES & WAGES</u>		
S. TOMLINSON, 2 DAYS @ \$120.20	\$ 240.40	
J. BOSHER, 1 DAY	115.39	
E. TIMOSHENKO, 1 DAY	<u>92.31</u>	\$ 448.10
<u>BENEFITS @ 20%</u>		89.62
<u>GENERAL COSTS APPORTIONED</u>		
4/15 X \$2,909.90		<u>775.97</u>
<u>TOTAL LINE-CUTTING, FLAGGING, SURVEYING COST</u>	\$	<u><u>1,313.69</u></u>

GEOCHEMICAL SURVEY COST

<u>SALARIES & WAGES</u>		
J. BOSHER, 2 DAYS @ \$120.20	\$ 240.40	
E. TIMOSHINKO, 2 DAYS @ \$92.31	<u>184.62</u>	\$ 425.02
<u>BENEFITS @ 20%</u>		85.00

GEOCHEMICAL SURVEY COST CONT'D.

<u>BALANCE FORWARDED</u>		\$	85.00
<u>ASSAYS & ANALYSES - CHEMEX LABS</u>			
2 ROCK FOR AU & 30-ELEMENT ICP @ \$16.25	\$	32.50	
152 SOILS FOR AU, HG & 30-ELEMENT ICP @ \$19.25		<u>2,926.00</u>	2,958.50
<u>GENERAL COSTS APPORTIONED</u>			
4/15 X \$,2,909.90			<u>775.97</u>
<u>TOTAL GEOCHEMICAL SURVEY COST</u>		\$	<u>4,244.49</u>

GEOPHYSICAL SURVEYS COST

<u>SALARIES & WAGES</u>			
P. GRUNENBERG, 1 DAY	\$	163.34	
S. TOMLINSON, 3 DAYS @ \$120.20		360.60	
J. BOSHER, 2 DAYS @ \$115.39		230.78	
E. TIMOSHENKO, 1 DAY		<u>92.31</u>	\$ 847.03
<u>BENEFITS @ 20%</u>			169.41
<u>CONTRACTOR</u>			
AERODAT LIMITED, 1,920 LKM (\$144,00.00/4)			36,000.00
<u>GENERAL COSTS APPORTIONED</u>			
7/15 X \$2,909.90			<u>1,357.93</u>
<u>TOTAL GEOPHYSICAL SURVEYS COST</u>		\$	<u>38,374.37</u>

PERSONNEL EMPLOYED ON SURVEY.

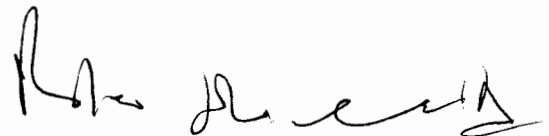
<u>NAME</u>	<u>OCCUPATION</u>	<u>ADDRESS</u>	<u>DATES</u>
P. Grunenberg	Geologist	Mark Management Ltd. 1900 999 W. Hastings Vancouver, B.C.	June 2-Dec.16 1986
S. Tomlinson	"	"	"
J. Boshier	"	"	"
E. Timoshenko	"	"	"
G. MacMillan	Draughting	Peter E. Walcott & Assoc 605 Rutland Court, Coquitlam, B.C. V3J 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:

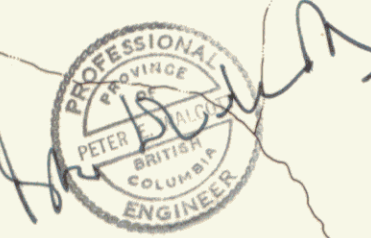
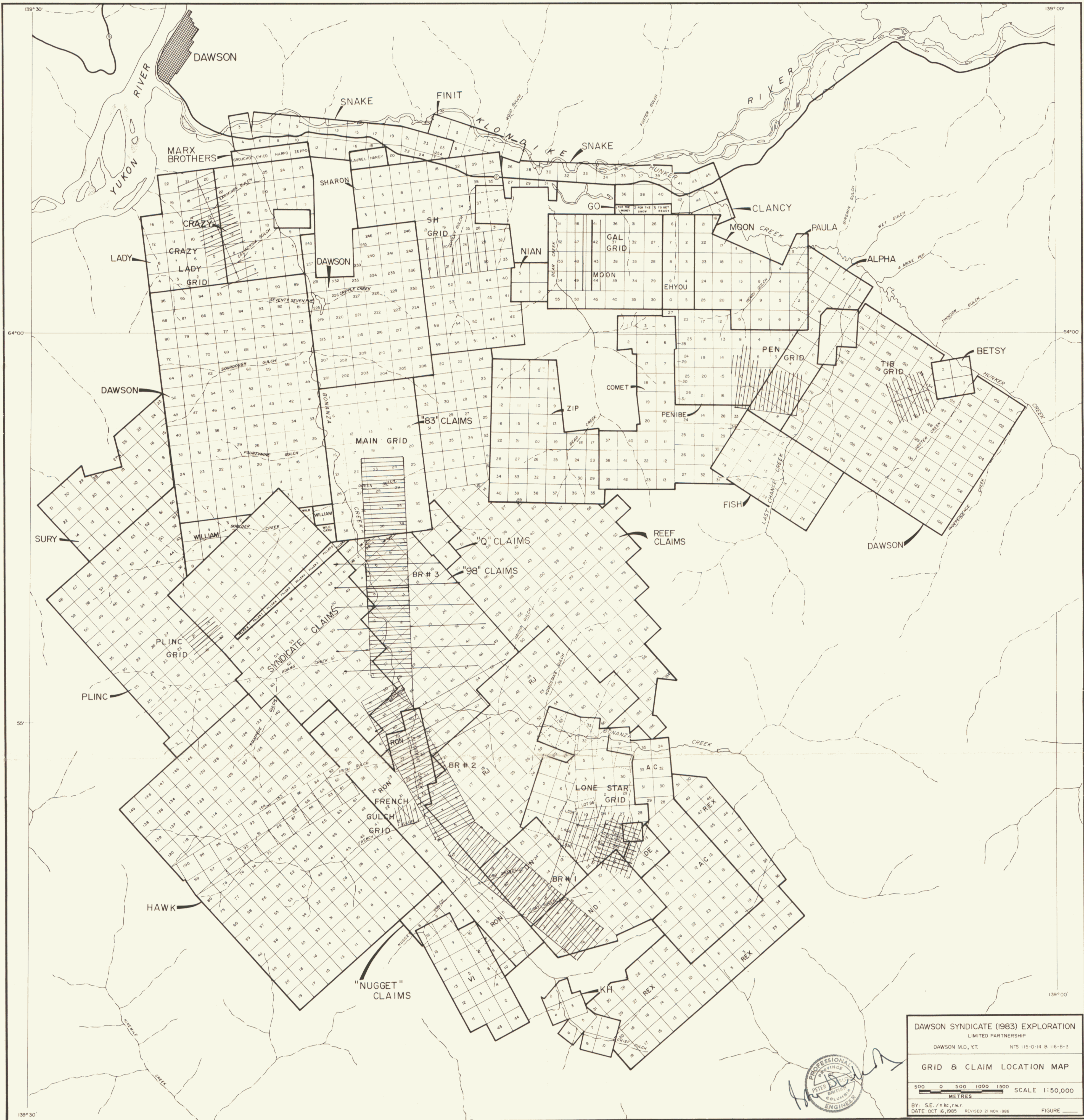
1. I am a Graduate of the University of Toronto in 1962 with a B.A.Sc. in Engineering Physics, Geophysics Option.
2. I have been practising my profession for the last twenty years.
3. I am a member of the Association of Professional Engineers of British Columbia and Ontario.
4. I hold no interest, direct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



Peter E. Walcott, P.Eng.

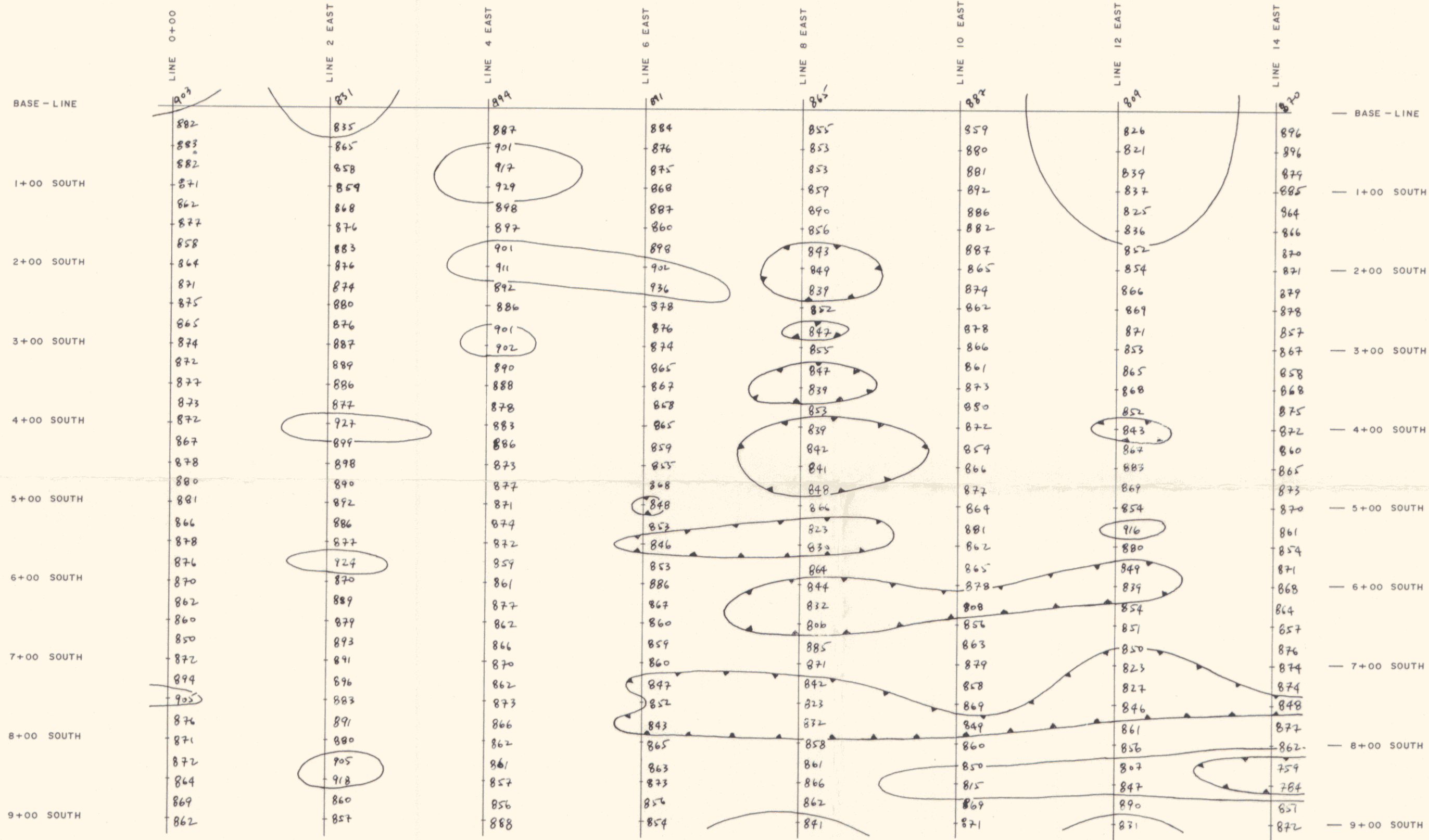
Vancouver, B.C.

February 1987

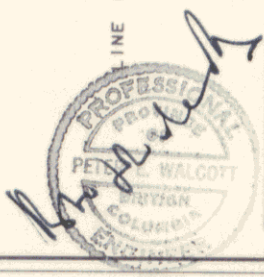


1469

091751



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



STANDARD GOLD MINES LTD.
SH GRID ; DAWSON AREA , Y.T.
MAGNETOMETER SURVEY
CONTOURS OF TOTAL FIELD INTENSITY
(IN GAMMAS)
SCALE 1:5,000
09 17 51
MAP No. W-393-14
AUGUST - 1986

SDA/DAW 1986
2 JUNE-16 DECEMBER
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