



ASSESSMENT REPORT
 WENDY 1-16 CLAIMS
 (YA 75061 - YA 75076)
WHITEHORSE
~~YATC~~ MINING DISTRICT

PROSPECTING AND GEOCHEMICAL SAMPLING
 AUGUST 14th 1983

NTS 105-J-5

091483

Latitude: $63^{\circ} 30'$
 Longitude: $131^{\circ} 47'$

By: A. D. McLaughlin
 September 1983



ASSESSMENT REPORT
 WENDY 1-16 CLAIMS
 (YA 75061 - YA 75076)
 STATE-MINING DISTRICT

PROSPECTING AND GEOCHEMICAL SAMPLING
 AUGUST 14th 1983

NTS 102-1-2 091483

Latitude: 43° 30'
 Longitude: 131° 47'

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 ...
 ...
 ... amount

1,600-

P. Watson

for

... for commissioner
 of Alaska Territory.

By: A. D. McLaughlin
 September 1983

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1. GENERAL

1.1 Introduction

This report describes the 1983 exploration work and expenditures by Agip Canada Ltd. on the WENDY 1-16 quartz mineral claims. The claims are located in south-central Yukon approximately 60 kilometers northeast of Ross River on map sheet NTS 105-J-5. The claims were recorded on September 9th 1982 (YA 75061 - YA 75076).

1.2 Work, Access and Physiography

Exploration work consisted of geological mapping, prospecting and geochemical sampling. Work was carried out from Ross River using a Bell 206B Jet Ranger helicopter owned by Trans North Turbo Air to transport field crews to the area.

The area has moderate to high relief over the majority of the claim block above treeline. The terrain is not too rugged, reflecting the flat-lying nature of the volcanic rocks.

2. GEOLOGY

2.1 Regional Geology

The entire claim block area is underlain by the South Forks volcanic rocks which unconformably overlie sedimentary rocks of the southwestern part of the Selwyn Basin. This basin was a site of marine deposition near the western edge of the North American craton from Late Proterozoic times until the Triassic period. Cretaceous granodiorites and quartz monzonites underlie and also intrude the South Fork volcanics.

The volcanics consist of a suite of subaerial calc-alkaline rocks of mid-Cretaceous age. They are divided into a lower sequence of mainly andesite and basalt flows and an upper sequence of dark dacite flows and tuffs.

2.2 Structural Geology and Metamorphism

The sedimentary rocks of the Selwyn Basin were thrust and folded during late Jurassic and early Cretaceous times. The South Fork volcanics are relatively undeformed and have only locally undergone lower greenschist metamorphism.

3. CLAIM GROUP EXPLORATION

3.1 Geology and Mineralization

The only rock type observed on the claim block is the dark-coloured dacite with phenocrysts of quartz, biotite, feldspar and locally hornblende. The rock is generally columnar jointed with minor volcanic breccia units. Bedding is apparently subhorizontal. Dyke rocks were not located on the property.

A single fault, trending 160° , is present with minor development of fault breccia and slickensides.

Minor quartz, quartz-calcite and calcite veining were located. The latter two vein types occur in or near the fault zone as boulders and subcrop apparently subparallel to the fault. The largest width observed was 10 centimeters. The wallrock is weakly microfractured with a poorly developed propylitic alteration only locally present. The quartz veining is more ubiquitous but still not common. The veins are discontinuous and never greater than 20 centimeters in width.

A small 50 x 20 meter area of moderately propylitically altered andesite with quartz and epidote veinlets and stringers is present in talus in the claim block centre.

The columnar joints are often coated with quartz, calcite and possible zeolite minerals.

3.2 Geochemistry

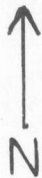
A total of 13 rock samples and one soil sample were collected from the claim group (Figure 2). All samples were analyzed for Au, Ag, As and Hg. Sample descriptions and results are presented in Appendix B.

The quartz and quartz-calcite veins located in outcrop do not carry significant precious metal values. However, float of silicified and pyritic dacite contains anomalous values (maximum 305 ppb Au, 2.8 ppm Ag, 750 ppm As). Further south, a thin shear zone returned 125 ppb Au, 2.9 ppm Ag and 280 ppm As.

3.3 Discussion

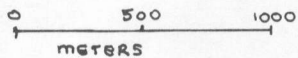
There are no major indications of precious metal mineralization on the claim block. The veins, minor alteration, and the actual gold and silver values together are suggestive of weakly mineralized hydrothermal activity. However, the lack of widespread alteration, structural activity, dyke rocks (heat source indicator) downgrade the potential of the claim block.

131° 50'



62° 29'

10	12	14	16
YA75070	YA75072	YA75074	YA75076
9	11	13	15
YA75069	YA75071	YA75073	YA75075
2	4	6	8
WENDY			
YA75062	YA75064	YA75066	YA75068
1	3	5	7
YA75061	YA75063	YA75065	YA75067



AGIP CANADA LTD.

WENDY
1-16 CLAIMS

LOCATION MAP

NTS 105-J-5

SCALE	AUTHOR	DATE	FIGURE
1: 31,680	ADM	SEPT/1983	1

APPENDIX A

Analytical Methods

Soil samples are dried and sieved to minus 80 mesh. Rock chip samples are pulverized and a split of the minus 100 mesh fraction is analyzed.

Silver analyses: the sample is dissolved in hot aqua regia and analyzed by atomic absorption spectrophotometry. Silver analyses require a correction for background.

Arsenic analyses are by perchloric-nitric acid digestion and colormetric determination.

Gold analyses are by fire assay techniques but, after preparation of the bead, the bead is dissolved in acid and the gold content determined by atomic absorption spectrophotometry.

Mercury analyses are by flameless atomic absorption spectrophotometry after sample digestion.

WENDY CLAIMS SAMPLE DESCRIPTION

<u>Sample No.</u>	<u>Type</u>	<u>Description</u>
0331100	Soil	Rusty talus over shear zone
0341000	Rock	Calcite vein float in shear zone
0341001	Rock	Calcite vein in shear zone subcrop
0341002	Rock	1 meter chip sample of thin quartz-calcite vein in dacite
0341003	Rock	1 meter chip sample of quartz vein in dacite
0341004	Rock	Quartz-epidote vein in dacite float
0341005	Rock	Quartz vein float
0341100	Rock	Rusty volcanic rock with quartz vein
0341101	Rock	Pyritic silicified dacite with quartz filled vugs
0341102	Rock	Silicified, pyritic dacite
0341103	Rock	Silicified, pyritic dacite
0341104	Rock	Silicified dacite
0341105	Rock	Sheared rusty dacite
0341106	Rock	Chloritized sheared dacite

APPENDIX B

Statement of Costs

1. Labour

Agip Canada personnel:

A. D. McLaughlin, Project Geologist: 1 day @ \$189/day	\$189.00
F. Perfido, Assistant Exploration Manager: 1 day @ \$280/day	280.00
L. Lalonde, Senior Assistant: 1 day @ \$105/day	105.00
J. O'Connor, Intermediate Assistant: 1 day @ \$100/day	100.00
	<hr/>
	\$674.00
	=====

2. Geochemistry

Analyses by Bondar-Clegg and Co. Ltd., Vancouver:

13 rock analyses @ \$17.12 each	\$222.56
1 soil analysis @ \$15.12	15.12
	<hr/>
	\$237.68
	=====

3. Helicopter

Bell 206-B chartered from Trans North Turbo Air, Ross River, Yukon:

1.5 hours @ \$500/hour	\$750.00
Plus: Fuel @ \$48/hour	72.00
	<hr/>
	\$822.00
	=====

4. Truck

Truck rented from Norcan Leasing of Whitehorse, Yukon, providing transportation to Ross River from previous work site (MacMillan Pass area) and transport in Ross River:

120 km @ \$0.27/km	\$ 32.40
2 days rental @ \$40/day	80.00
Plus: Fuel	11.11
	<hr/>
	\$123.51
	=====

5. Hotel and Food

Welcome North Inn, Ross River, Yukon:

2 rooms for 1 night @ \$71/night/room	\$142.00
Estimated food costs @ \$19.50/man day for 4 man days	78.00
	<hr/>
	\$220.00
	=====

TOTAL COSTS OF PHYSICAL WORK FOR ASSESSMENT CREDIT ON WENDY 1-16 CLAIMS: \$2,077.19

APPENDIX C

Statement of Qualifications

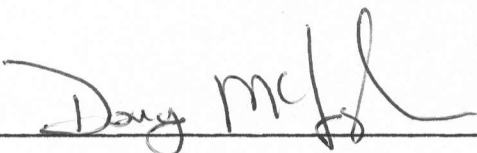
I, ARTHUR DOUGLAS McLAUGHLIN, of the City of Calgary in the Province of Alberta, HEREBY CERTIFY:

THAT I am a geologist employed by Agip Canada Ltd. AND
THAT I caused to be performed the work described in
this report;

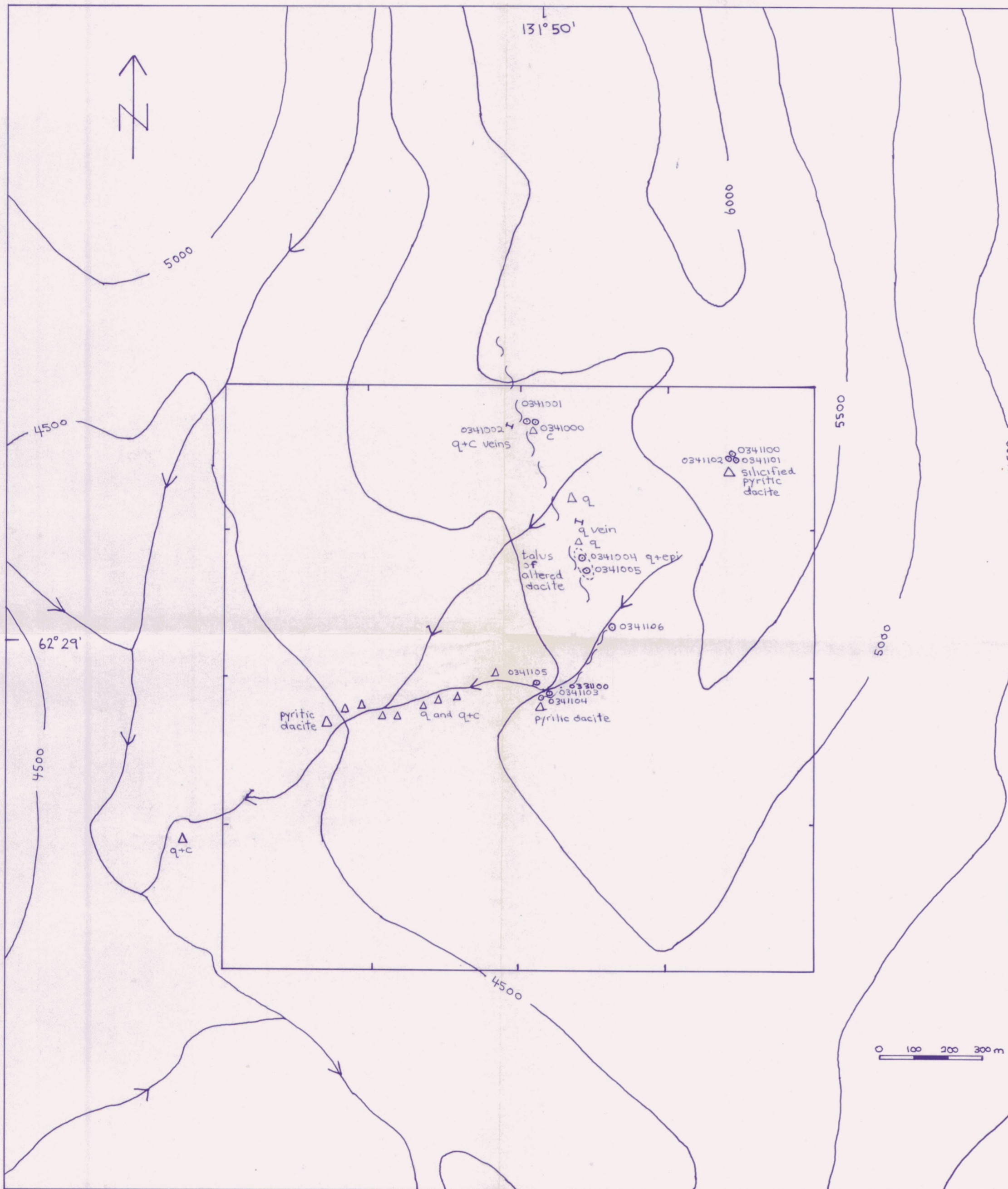
THAT I obtained a Bachelor of Science degree in Geology
from Acadia University, Nova Scotia, in 1977;

THAT I have been engaged in mineral exploration on a
full-time and part-time basis for five years, of which
two years have been spent on exploration programs in
the Yukon Territory.

SIGNED at the City of Whitehorse in the Yukon Territory this 6th day
of September, 1983.



Arthur Douglas McLaughlin



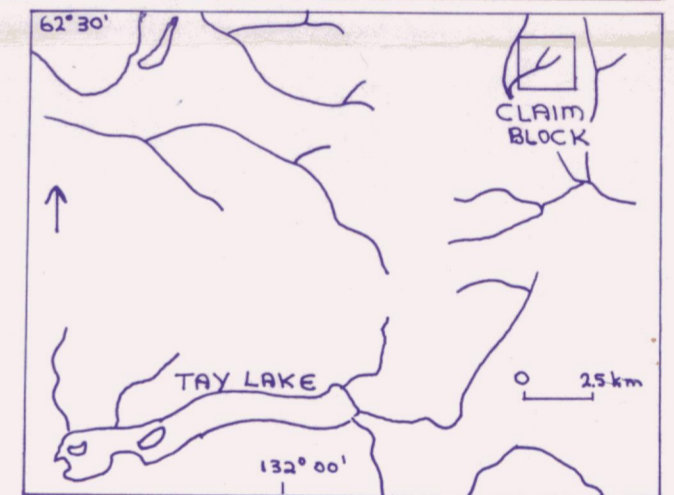
LEGEND

- Claim Boundary —————
- Topographic Contour (feet) —— 5000 ——
- Creek ~~~~~>
- Rock Sample (grab, chip) ○, △
- Soil Sample ●
- Veined Boulders ; quartz, calcite △; q, c
- Fault ——|——

Entire map area underlain by Cretaceous South Forks dacite tuffs and flows

GEOCHEMISTRY

Sample Number	Type	Au (ppb)	Ag (ppm)	As (ppm)	Hg (ppb)
0341000	rock, grab	5	<0.2	14	30
0341001	rock, grab	5	<0.2	3	10
0341002	rock, lm chip	<5	<0.2	12	20
0341003	rock, lm chip	<5	<0.2	6	5
0341004	rock, grab	<5	<0.2	11	20
0341005	rock, grab	<5	<0.2	12	80
0341100	rock, grab	5	<0.2	310	15
0341101	rock, grab	305	1.8	750	90
0341102	rock, grab	50	2.8	360	45
0341103	rock, grab	125	2.9	280	140
0341104	rock, grab	5	0.2	28	60
0341105	rock, grab	105	0.8	260	30
0341106	rock, grab	<5	<0.2	6	15
0331100	soil	45	0.8	60	80



091483

Agip Canada Ltd.	PROJECT NO 400200
	SCALE 1:10,000
TITLE COMPILATION MAP	NTS 105-J-5
	SURVEYED BY ADM, LL
PROJECT WENDY 1-16 CLAIMS	DRAWN BY ADM
	APPROVED BY
	DATE SEPT 83
	FIGURE 2