## **GEOPHYSICAL and GEOCHEMICAL REPORT**

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## DUN CLAIMS 1-24 (YC20619-YC20642) FARM CLAIMS 1-6 (YC20613-YC20618)

Owned by Vern Matkovich and Tom Morgan

Work Performed Between June 2002 – January 2003

Lat.63\*42' Long.136\*00'

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### NTS 115-0-11

**Dawson Mining District** 

Prepared by Tom Morgan and Vern Matkovich For 19651 Yukon Inc.

In Compliance with YMIP # 02094

January 31,2003



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# **Location and Access**

**DUN CLAIMS 1-24 (YC20619-YC20642)** and **FARM CLAIMS 1-6** (YC20613-YC20618) are located on NTS map sheet 115-0-11 in the Dawson Mining District The claims are located approx 85 kms by road south and east of Dawson City The prospect is accessed from Dawson City via the Hunker or Bonanza Creek roads off the Klondike Highway east of Dawson City Quartz Creek road is then followed down stream to the mouth of Quartz Creek to the old sunken dredge The road turns left just before the dredge and goes upstream along the Indian River for approx 9 kms to the Indian River Hay Farm From the farm one travels along an old Cat trail for 1 5 kms to the edge of the DUN CLAIMS at Bishop Creek by ATV 4-wheeler The 4-wheeler trail is followed for another 1 5 kms along the right limit of Bishop Creek through the geophysics grid done this year



## **General Geology**

The prospect lies in the Ogilvie map area, which is underlain mainly by a series of metamorphic rock that form a broad northwesterly belt through the Yukon This belt is bounded on the northeast by the Tintina Trench, which passes through the northeast section of the Ogilvie map sheet

In the prospect area, the **Indian River** marks a boundary between metamorphic rocks to the north, mapped as Klondike Series, and those mapped as Yukon Group or Nasina Series to the south The Klondike Series are comprised mainly of sericite schist, chlorite schist and gneiss and form broad northwesterly trending zone adjacent to the Tintina Trench The Nasina Series are comprised mainly of dark colored quartzites, quartz mica schist and minor limestone (Bostock, Ogilvie Map, 1942)

# Geology of the Claim Block Area

The **DUN** and **FARM CLAIMS** lie south of the **Indian River** in an area where sandstone and conglomerates associated with Tertiary Volcanics overlie Nasina Series rock. The Claim block covers an ultramafic intrusion thought to be of Proterozoic or Paleozoic age and identified as dunite rock (Lowey 1981, 1983).

## **Economic Geology**

The project area covers an ultramatic intrusion identified as a green, dark brown weathering dunite Rock samples taken and assayed in 2000 returned values of 0 12g/mt Pd 0 05 g/mt Pt, 1669 ppm Ni, 987 ppm Cr, 972 ppm Mn, and 12% Mg

Cr segregation in dunite in Alaska type intrusives are known to be related to PGE occurrences in BC, Alaska, the Russian Urrals, and some minor showings in the Yukon The **Indian River** dunite intrusion is eroded and cut through by **Bishop Creek**, and the geological setting is very similar to the zoned dunite complexes in Russia, (referred to as Alaska Type ultramafic rocks in N A) in which the most PGE mineralization is in the segregation of chromite found in the eroded central mass of the dunite

The Airborn Mag Survey released in 2001 by GSC shows the claim block as highly magnetic



# GEOLOGY OF INDIAN RIVER AREA



**HEAD** 

LOWEY

#### LEGEND

RECENT			
Unconsolidated alluvial deposits	Geologic boundary	Approximate Assumed	
PALEOCENE AND UPPER CRETACEOUS	Bedding, tops known(i	inclined)	
Andesite and minor dacite, porphyritic, light-to dark-green, weathering light-grey-brown (Carmacks Group)	Foliation (inclined)		
LOWER CRETACEOUS	Fault Defined		$\sim\sim\sim\sim$
Interbedded sandstone, mudstone and conglomerate with	Approximate		$\sim \sim \sim$
minor coal, light grey to black weathering light grey	Mine (1 Ruby Creek (	Coal Mine . 2 Britannia	*
PERMIAN AND OLDER	Gold Mine)		~
Dunite, dark-green, weathering brown	Diamond drill hole Rotary drill hole		0 ⊕
Felsic Schist quartz muscovite chlorite schist and muscovite	Shaft		
schist, light grey green, weathering dark grey orange	Adat		<del>~</del>
<b>F</b> Schist Gneiss quartz muscovite schist and gneiss light			
grey, weathering light grey brown	lrench		<b></b>
Granitic Gneiss muscovite chlorite biotite schist and foliated	Trail (bulldozer, foo	()	===
[반ːːːː] gneissic granodiorite, dark grey, weathering light grey	Radiometric age (mi	llions of years }	65
	RECENT   Unconsolidated alluvial deposits   PALEOCENE AND UPPER CRETACEOUS   Andesite and minor dacite, porphyritic, light-to dark-green, weathering light grey-brown (Carmacks Group)   LOWER CRETACEOUS   Interbedded sandstone, mudstone and conglomerate with minor coal, light grey to black weathering light grey   PERMIAN AND OLDER   Dunite, dark-green, weathering brown   Felsic Schist quartz muscovite chlorite schist and muscovite schist, light grey green, weathering dark grey orange   Image: the schist Greiss quartz muscovite schist and gneiss light grey, weathering light grey brown   Granitic Gneiss muscovite chlorite biotite schist and foliated gneissic granodiorite, dark grey, weathering light grey	RECENTGeologic boundaryUnconsolidated alluvial depositsGeologic boundaryPALEOCENE AND UPPER CRETACEOUSBedding, taps known(in consolidated alluvial deposits, weathering light grey-brown (Carmacks Group)Bedding, taps known(in consolidated alluvial deposits, weathering light grey-brown (Carmacks Group)LOWER CRETACEOUSFault Defined ApproximateInterbedded sandstone, mudstone and conglomerate with minor coal, light grey to black weathering light greyMine (1Ruby Creek (Gold Mine))PERMIAN AND OLDERDunite, dark-green, weathering brownDiamond drill hole Rotary drill holeImage: Schist quartz muscovite chlorite schist and muscovite schist, light grey green, weathering dark grey orangeAdit TrenchImage: Schist Gneiss quartz muscovite schist and gneiss light grey, weathering light grey brownTrait (bulldozer, foo Radiometric age (ministed grey)	RECENT Geologic boundary Approximate Assumed   PALEOCENE AND UPPER CRETACEOUS Bedding, tops known(inclined)   Andesite and minor dacite, porphyritic, light-to dark-green, weathering light grey-brown (Carmacks Group) Foliation (inclined)   LOWER CRETACEOUS Fault Defined Approximate   Interbedded sandstone, mudstone and conglomerate with minor coal, light grey to black weathering light grey Mine (1Ruby Creek Coal Mine, 2 Britannia Gold Mine)   PERMIAN AND OLDER Diamond drill hole Rotary drill hole   Felsic Schist quartz muscovite chlorite schist and muscovite schist, light grey green, weathering dark grey orange Shaft Adit   Image: Schist Gneiss quartz muscovite schist and gneiss light grey, weathering light grey brown Trench   Image: Schist Gneiss muscovite chlorite biotite schist and foliated gneissic granodiorite, dark grey, weathering light grey Trail (bulldozer, faot) Radiometric age (millions of years)



Figure 1 Geologic map and legend of the Indian River area



Regional Geological Legend 115-0-1 and 115-0-2

by H S. Bostock

RECENT 8-Stream deposits

TERTIARY AND MODERN 7-Stream deposits

SELKIRK SERIES 6-Basalt, and esite

TERTIARY EOCENE OR LATER 5-Granite porphyry, syenite porphyry 4-Andesite, basalt, dacite, trachyte, rhyolite, breccia, tuff, agglomerate

EOCENE 3-Conglomerate, sandstone, shale, coal, tuff

JURASSIC OR LATER 2-Chiefly granite and granodiorite

ORDOVICIAN OR LATER 1-Argilite, sandstone, conglomerate

#### PRECAMBRIAN AND LATER

- - -

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A-Chiefly gneissic granite B-Klondike schist sericite schist, minor chlorite schist C- Gabbro, pyroxene, peridotite, serpentine D-Limestone E-Gneiss, quartzite, schist, slate

> MAP 711A OGILVIE, YUKON Scale 1 253,440 One inch to 4 miles

## SUMMARY OF WORK 2002 – January 2003

The work program of 2002-03 consisted of drilling, trenching, line cutting and performing of VLF Mag survey on these lines

Six holes were drilled for a total of 192 feet in the Bishop Creek Valley, which is the most deeply eroded section of the dunite body Two hand trenches were dug on the highest gradient anomalies and one meter chip samples were taken across the trench bottoms

Line cutting with 25 meter flag marked stations were continued off the 2001 grid to cover the remaining unsurveyed sections of the ultramafic and its contacts A total of 17 km of grid and VLF Mag survey was added onto the old grid of 2001

A total of 10 man days went into drilling, 4 man days into sample processing, 6 man days into hand trenching, 47 man days into line cutting and grid preparation and 6 man days into running VLF Mag equipment

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SECTION OI - DUN 2002

SAMPLE PIT 10-02-101 4087907 MTU \*\*\* GRAVEL -BEDROCK, (DUNITE) DH or DH OS ho-40 Co HQ Ś × イメッ স তথ্য ৩ 5 . 90-HO 4 × < х х х х × (p 200- 2-12- MNC x እ. ጉ ĸ Ċ ۸, x × × X ł Y ۲ ÷

## SAMPLE DESCRIPTION

The drill hole samples were processed by screening and sluicing with a longtom to produce an oversize fraction and a concentrate of the undersize -1/4" fraction The Au particles were separated out of the undersize and weighed and the rest of the concentrate was assayed FA/AAS (Au, Pt, Pd) + 30 element ICP finish Thirty five (35) kg of drill sample was reduced to 2 kg of concentrate

PC-004 is split portions of 4, 2, and 5 drill holes longtom concentrates PC-006 is concentrate from DH-6 splits of 4, 2, and 5 were included together due to their close proximity to each other and question of float material being included in the sample

Sample 002-DH is +1/4" oversized pieces of dunite subcrop from bottom material of drill holes 2 and 4

Sample 005-DH is +1/4" pieces of fractured dunite subcrop from drill hole 5,

Sample PC 006 is a concentrate of DH 006 with Au particles removed

Sample 006-DH – oversize dunite +1/4" subcrop from drill hole bottom Some fine metallic sulfide was observed (pentlandite?)

Sample 001-DH was not sampled because of the influence of the Indian River with no apparent heavies and a totally altered bedrock (clay) with a small amount of fractured dunite float The clay may have been the reason for the weak VLF dip-needle cross-over seen in 2001

Sample 003-DH was not sampled as the drilling to refusal happened above bedrock in an alluvial boulder layer At this point, no concentrate or fractured bedrock was seen

Sample R-007 and R-008 These samples were from the gradient anomaly @ L10 050E, 9750N running parallel to the line R-007 was a one meter chip running from 9749 N to 9750 N R-008 was a one meter chip from 9750 N to 9751 N The chip sample was taken 0 5 meters from the surface in a trench 2 5 meters long by 1 5 meters wide Both of these samples were olivine dunite

Sample R-009 and R-010 Samples from gradient anomaly at L10 9050 There was a difference in the samples (clay and fracturing with a lighter appearance was 010) (Competent darker, less fracturing 009) 010 ran from 9050 N to 9049 N 009 ran from 9050 N to 9051 N Trench was 3 meters long x 2 meters wide x 1 5 meters deep

\* \* \* \* \*

## CONCLUSIONS AND RECOMMENDATIONS

The initial drilling to test the eroded central portion of the dunite intrusion failed to intersect any anomalous PGE concentrations. Some dunite intrusions in Russia have produced minable PGE placers and chromite segregations in their eroded central portions.

The placer Au was significant enough to warrant further exploration

The two highest anomalies found with the mag gradient were hand pitted and blasted upon to expose a two meter section of fractured but in place bedrock This was sampled with two – one meter chip samples from each hand trench One sample of chemically depleted dunite in Mg, Fe, Cr, Ni, Co was slightly anomalous in Pt and Pd (sample DUN-02-R-010) This was at the south central end of the intrusion, which appears to be a 150 meter by 200 meter break-off of the main 1000 meter by 200 meter intrusion from the mag surface data The gradient anomalies did not host any significant PGE concentrations from these tests

The mag –VLF survey outlined the ultramafic body and identified some conductors along the edge of it in three separate localities The "A" anomaly runs off the tip of the NW extension of the main intrusion, following the same strike direction through a mag low It is centered between L9450 E, 9830 N and L9500 E, 9815 N with an approximate depth of 30 meters The "B" anomaly is centered just off L9800 E, 9950 N and L9750 E, 9950 N on the contact zone of the north edge of the intrusive body The "C" anomaly is centered between L10350 E, 97540 N and L10400 E, 9535 N along the southeast edge of the intrusive

The present anomalies should be drilled starting with the "A" anomaly, then "B" and "C", as each has different emplacement around the intrusive This should be done with a rotary drill or diamond drill to penetrate 30 to 90 meters if needed If economic metal concentrations are found, then more geophysics to deeper layers following orientations would be the obvious next step to follow Drilling should be undertaken on the results of the survey

The placer potential of this area should be followed up as the drilling that was done uncovered economic concentrations of Au in the placer con This could be done with rotary drilling in conjunction with the hardrock program or with an auger drill Shafting of the central portion of this creek channel where we drilled to refusal without hitting bedrock is recommended In this way, the uneven distribution of Au in the boulder layer can be averaged out

\* \* \* \* \*

# STATEMENT OF EXPENDITURES DUN CLAIM BLOCK 2002

# 16406 Yukon Inc

TOTAL	47,357.61
Living Allowance 73 Man Days x \$35 00	2,555.00
Report Preparation	750 00
<u>16406 Yukon Inc.</u>	
Map Preparation and Interpretation of Data	1,773 53
<u>Aurora Geosciences Ltd.</u>	
Invoice #301515 – Line Cutting and Grid Preparation Invoice #302516 – VLF Mag Survey	15,743 75 8,250 00
<u>16406 Yukon Inc.</u>	
Invoice #110914 - Line Cutting and Grid Preparation	7,683 75
Wes Darling Operations	
Assays – WO #180602	381 78
Northern Analytical	
Invoice #302509 – Trenching Expenses	2,829 80
Invoice #302508 – Drilling Expenses	\$ 7,140 00

# Qualifications

The authors of this report are active prospectors with 30 year-combined experience in the Yukon Basic Prospecting Courses provided by the Yukon Chamber of Mines have been taken and advanced prospecting and geological studies have been applied

# References

Bostock Map 711 A Ogilvie, 1942

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Lowey Yukon Exploration and Geology, 1983



9044 Quartz Road Whitehorse, Yukon Y1A 5L8 Ph (867) 668-4968 Fax (867) 668-4890 E-mail nal@yknet yk ca

07/10/2002

Certificate of Analysis

Page 1

19651 Yukon I td

WØ#180602 Certified by

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1		<b>A</b>	<b>D</b> 4	-
1		Au	PT	Pa
[	Sample # _	ppb	ppb	ppb
1	Dun-02-8-010			
ir -	<del>DUN=05010</del>	2	24	13
r	DUN-02-002-16H	<2	<15	11
r	DUN-02-005-EH	<2	<15	<5
·r	DUN-02-006-EH	<2	<15	<5
r	DUN-02-PC-014	204	<15	<5
r	DUN-02-PC-016	10	<15	<5
	DUN-02-R-007	<2	<15	6
	DUN-02-R-008	<2	<15	5
¦۲	DUN-02-R-009	<2	<15	<5

DOMNLOWN HOLET

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#### ICP Certificate

W 0# 180602

؟ ۵۰	Serupte #	Ag npm	Си ppm	Pb ppn	Zn pom	As ppm	Se ppin	Hg ppm	Ma SPIN	TI Ppm	Bk Ppra	Cat ppm	Со рэт	N: pgm	Ba ppm	W PPM	Ci Pfrn	V ppin	Mn çem	t.a ppm	Sr ppm	Zr p;m	Sc. ppin	11 %	P:	Са %	Fe %	<i>н</i> д Ч	K %	Na %	
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10/07/02



9044 Quartz Road Whitehorse, Yukon Y1A 5L8 Ph (887) 663-4968 Fax (867) 668-4960 E-mail nal@yknet.yk.ca

#### Invoice for Analytical Services

To		Invoice Date				
19651 Yuk Tom Morg	an	WO#	180602			
QTY	DESCRIPTION		AMOUNT -			
9	Sample Preparation Rock/D C Sample Preparation Drying Charges	5 50 2 50	49 50 15 00			
9	Analyses Au, Pt, Pd + ICP 30 []lements	32 50	292.50			
	:					
	\$					
 	, ,					
	Subtotal	1	357 00			
	GST @7% (R 121285662	)	24 78			
	Total due on receipt of inve	bice	\$381 78			

2% per month charged on overdue accounts

Abe recovered

- Trace -

Drill Program - 2002 - Bishop GREEK DUND-02-001- DH.

Location - <u>00 6 corplysites by seliver bet at 1000005 F.</u> $Auger Size - <u><math>5\frac{4}{2}$ </u> Depth of Muck - <u> $26^{\prime}$ </u> Depth to Bedrock - <u> $31^{\prime}$ </u> Depth Drilled - <u> $33^{\prime}$ </u> No. of Pails - <u>4</u></u>

**Comments** -0'-26': GRAV-GREEN MICASCOUS SILT. 26-31' ganvel 31'-33' tech, of bedreck. UTM 070 0597909 E 7064654 N

An recovered . CI4g An Dun-02-002-0H 2002 Bishop Drill Program appstroam from 02-001 Approx. 250m., beside rock bluff. Location -Auger Size - 53 Depth of Muck - 13-14' Depth to Bedrock - 3/ Depth Drilled - 33' refused in hand dunite No. of Pails - 8 . (Numbered 1-8: #1-3 = 22'-25' Comments - 20 small color of 25 Flyshit + altra for - 200 month? 0-10: gRAY muck. 12-13's brown orgANic muck. 13-16: : gRAUd 10-D: GRAVEL 20 22's dailled quiet and fost like bodrack, pulled up and = le Amed; found dunite Rock but also wood ON the pit. Docided to drill farther. 22-25: Fine gRAUS 25-31 : SERIBUS GRAVE 31-33 = drilled like the gravel, but decayed Redrock 4.5 feet up stem. JTM 071 0597795 E 7064433 N 01/31/2003 FRI 12 32 FAX 8679935076

Z00 🖗

DOWNTOWN HOTEL

Au recovered Trace

Drill Program - Dun-02-003-DH Location - <u>west side of Biskop Cereption</u> 100 <sup>4</sup> from 000 Auger Size - Depth of Muck - <u>26'</u> Depth to Bedrock - <u>7</u> Depth Drilled - <u>34</u>
Comments -
3'-24's GRAY much AND clay, hard to deill 24-26's some scanpes, mostly quict
27-31's drilled quet and slow (like much.) SAND 31-316": Some Riscks.
UTM 070 0597768 = 7064459 N

An recovered . cacg. Au Dun-02-004-DH Drill Program -Location - EAST side of Arlop, by the CREEK-20 FRom Due -02'002 Auger Size · 5-3/4 Depth of Muck - 20 Depth to Bedrock -**Depth Drilled -** 35' No. of Pails - 7 Comments -0'-20's mostly isrown muck, some icr and wood. 20-28 & GRADEL - SERIOUS hard dailling. 28-29 : drilled quiet. 29-31 . dard drilling, sounds like gaque /- Refuser pulled up and found no bedrock. Stuckon Rock. 31-34 = put breck down and drilled rock for 34'-35' 4' BEDROCK @ 33' UTM 070 059782 E 706 446

Au recovered - Trace-

Drill Program - DON-02-DOS-DH.
Location - 25 EAST of -002 (ON LINC, NEXT Shill)
Auger Size
Depth of Muck - 18'
Depth to Bedrock - $28'$
Depth Drilled - 30'
No of Pails - 4
<u>Comments</u> -
0'-4': pert and its.
4'- 15"= ICE AND GRAY MUCK
15'- 18 = fine gRAVEL, then mud then gravel
18-19 : gRA-Uel
19-24". SANG and fine gravel.
24'-22: 9RAUEL
27-B: Serious grave!
28-30 : serieus dunite
UTM 070 0597808 E 706 4920 N

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Au recovered . Cacq. Au DUN-02-005-DH Drill Program -Location - JODAD # X 9650 N Auger Size -Depth of Muck - 20 Depth to Bedrock - 22' Depth Drilled - 277 No. of Pails - 4 Comments -0-212: UNITOUS MUNd, SAND, THE LAYERS. 15-14 : must to day. 14-20" - dry gray clay. -2) = drilled in dunite, some small 20 pièces of quartz estimater 1-2 of gRAvel (?) UIM 070 0597<u>671 E</u> 706 4385 N





