1998 GEOLOGICAL and GEOCHEMICAL ASSESSMENT REPORT ON THE URUGAN PROPERTY

Quartz Claims

Urugan 001-014 YC01213-01226

Dec. 15, 1999

094051

Mayo Mining District
N.T.S. 105N/01 & 105K/16

Latitude: 63°00' North
Longitude: 132°05' West

Owner: Viceroy Exploration (Canada), Inc.

Author: Rick Diment

Date of work: July 1998

RECEIVED
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MINING RECORDER
MAYO, Y.T.
INDIAN & NORTHERN
AFFAIRS

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 $ 4809.

M.B.

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

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SUMMARY

The Urugan Property, consisting of the Urugan 1-24 Claims located in Central Yukon on NTS sheets 105N/01 & 105 K/16, was staked in 1998 by Viceroy Exploration (Canada), Inc.

The Urugan Property is located within the Paleozoic Selwyn Basin which consists of a broad package of Paleozoic sediments extending ESE from north-west of Dawson City to the Yukon-NWT border north of the major NW-SE trending Tintina Fault Zone. This stratigraphy consists of shallow shelf to off-shelf marine clastic and chemical sediments, as well as basinal clastic sediments derived from the Ancient North American Platform to the north-east. Several episodes of continental uplift have led to periods of increased erosion and resulting continental margin or miogeosynclinal deposition, resulting in formation of comparatively high energy, shallow water sediments, often coarsely grained and variably calcareous. These are separated by strata formed under deeper, quieter water conditions, resulting in formation of fine clastic sediments and chert. The Mid-Cretaceous Tombstone-Tungsten Suite (95-89 Ma) has been emplaced within the Selwyn Basin. Members of this suite occur along an ESE trending belt extending for over 500 kilometres from north-west of Dawson City, Yukon to the Yukon-NWT border. Tombstone Suite intrusives are believed to control much of the economic gold mineralization within the Selwyn Basin.

Extensive thrust faulting along the entire extent of the Selwyn Basin began during Late Jurassic time, resulting in creation of a compressional regime. Most thrust faults are oriented roughly ESE, dipping to the south-west, subparallel to the overall ESE trend of stratigraphy. This regional lineation has been overprinted by a slightly less pronounced NE-SW lineation, marked by high angle orthogonal faults suggesting the compressional regime was followed by an extensional tectonic regime.

The Uragan Claims cover a gossanous ENE trending ridge. The property is underlain by a large package of Road River Group siltstone to calcareous siltstone with lesser chert in contact with a large package of Road River Group chert and lesser siltstone to the south (Plate 1). Bedding is oriented SSE, and is steeply dipping, variably to the east and west. An elongated Tombstone Suite dioritic stock extends along the contact. A strongly brecciated limonitic zone, often baritic, occurs within and to the south of the stock, surrounded in turn by a wider zone of silicification and quartz veining. Reactive calcareous siltstone has locally undergone calc-silicate alteration, and localized strongly brecciated zones occur across the property. A pronounced lineament trends ENE about 400 metres southeast of the property.

During 1998, rock, silt and soil sampling, prospecting and geological mapping were carried out in the vicinity of what would be come the Urugan claims. Applicable work for assessment included 4 rock and 41 soil samples collected at the end of July, and prospecting and geological mapping over the claims.

Rock grab sampling has returned weakly anomalous values to 75 ppb Au located 1.2 kilometres northeast of the stock, as well as values to 60 ppb Au roughly 100 metres north of the northern property boundary. Soil sampling returned values of 46 ppb Au/ 350 metres, open to the north, from contour sampling across the north boundary, as well as a sample returning 275 ppb Au, and 26 ppb Au/ 500 metres roughly 300 metres south of the stock, across the southern flank of the ridge. These zones comprise an anomalous area of roughly one square kilometre. Silt sampling returned anomalous values to 50 ppb Au, with 4.8 gpt Ag and 640 ppb Hg from streams draining the northern soil anomaly, as well as a value of 150 ppb Au obtained 0.8 kilometres further downstream to the west. Values of 90 and 50 ppb Au were returned from closely spaced sampling one kilometre south-west of the claims, and a value of 65 ppb Au was returned from the ENE trending lineament.

Exploration expenditures in 1998 amounted to $4,809

Further exploration should focus on defining the extent and ultimate significance of gold-in-soil anomalies immediately north and south of the diorite stock.

CHAPTER 1: INTRODUCTION

1.1 Introductory Statement

The Urugan Property consists of 14 contiguous quartz mining claims (Urugan 1-14 claims) covering a 3.5 square kilometre area measuring 3.5 by 1.0 kilometres within NTS Sheets 105 K/16 & N/01, in the Mayo Mining District (Figures 1, 3).

The 1998 exploration program involved geological mapping, prospecting, rock and soil sampling.

1.2 Location and Access

The Urugan Property is located 110 kilometres north of the town of Ross River, in the Yukon Territory. It is centered at 63 ° 00' North latitude, 132 ° 05' west longitude on NTS Map Sheets 105 K/16 & N/01 (Figure 2).

Access is by helicopter from Fairweather Lake roughly 15 kilometres to the north-northwest.

1.3 Physiography and Vegetation

The Urugan Property occurs above tree line within moderately steep terrain with limited outcrop exposure attaining elevations of over 5,800 feet. Most of the property is covered by talus and low lying shrubs and grass.

1.4 Property Exploration History

The Urugan Property area was targeted to evaluate anomalous gold, arsenic, antimony and mercury associated with Cretaceous intrusives and Lower Paleozoic stratigraphy. The Urugan claims were staked to cover weakly anomalous gold values in rock and soil sampling.

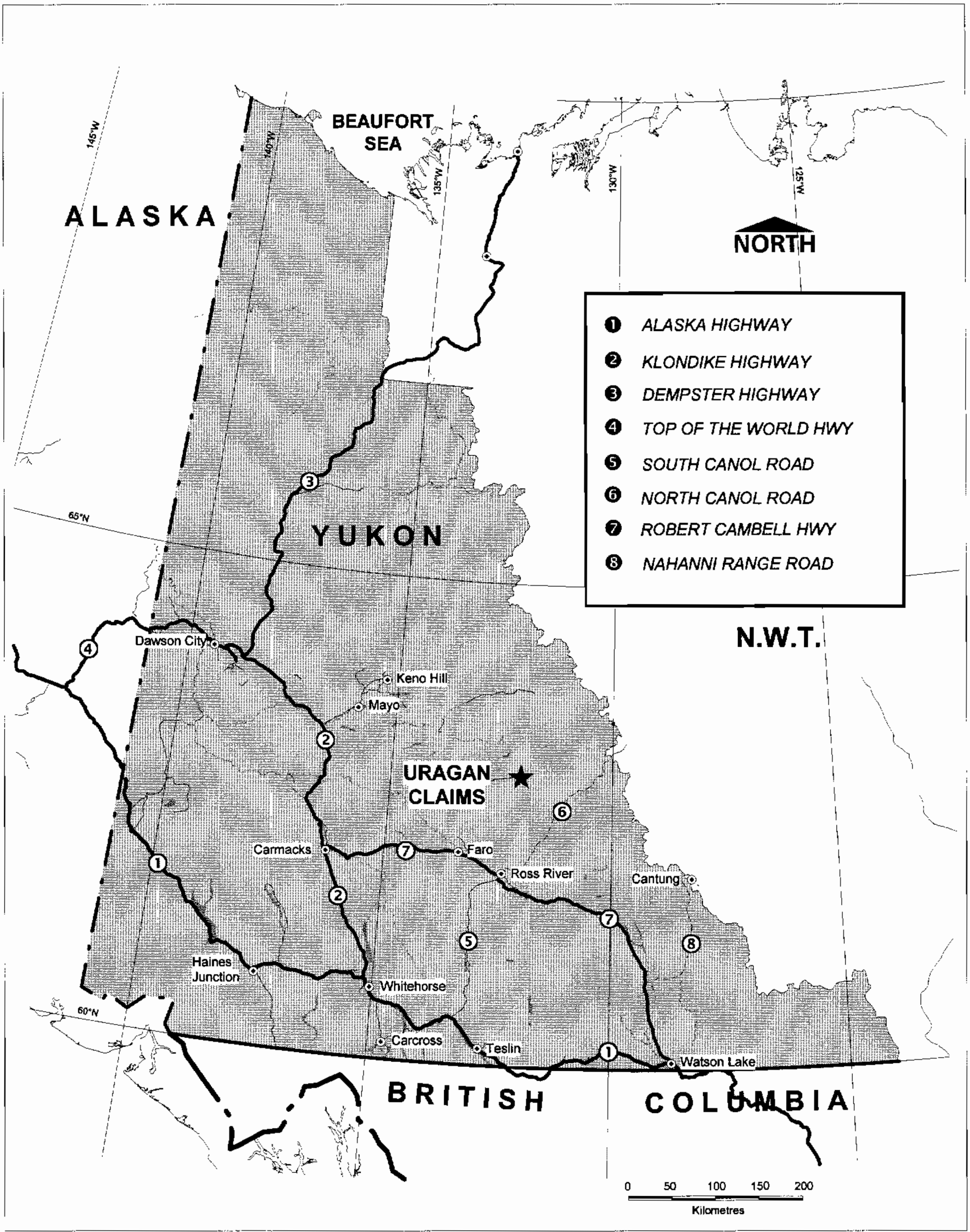
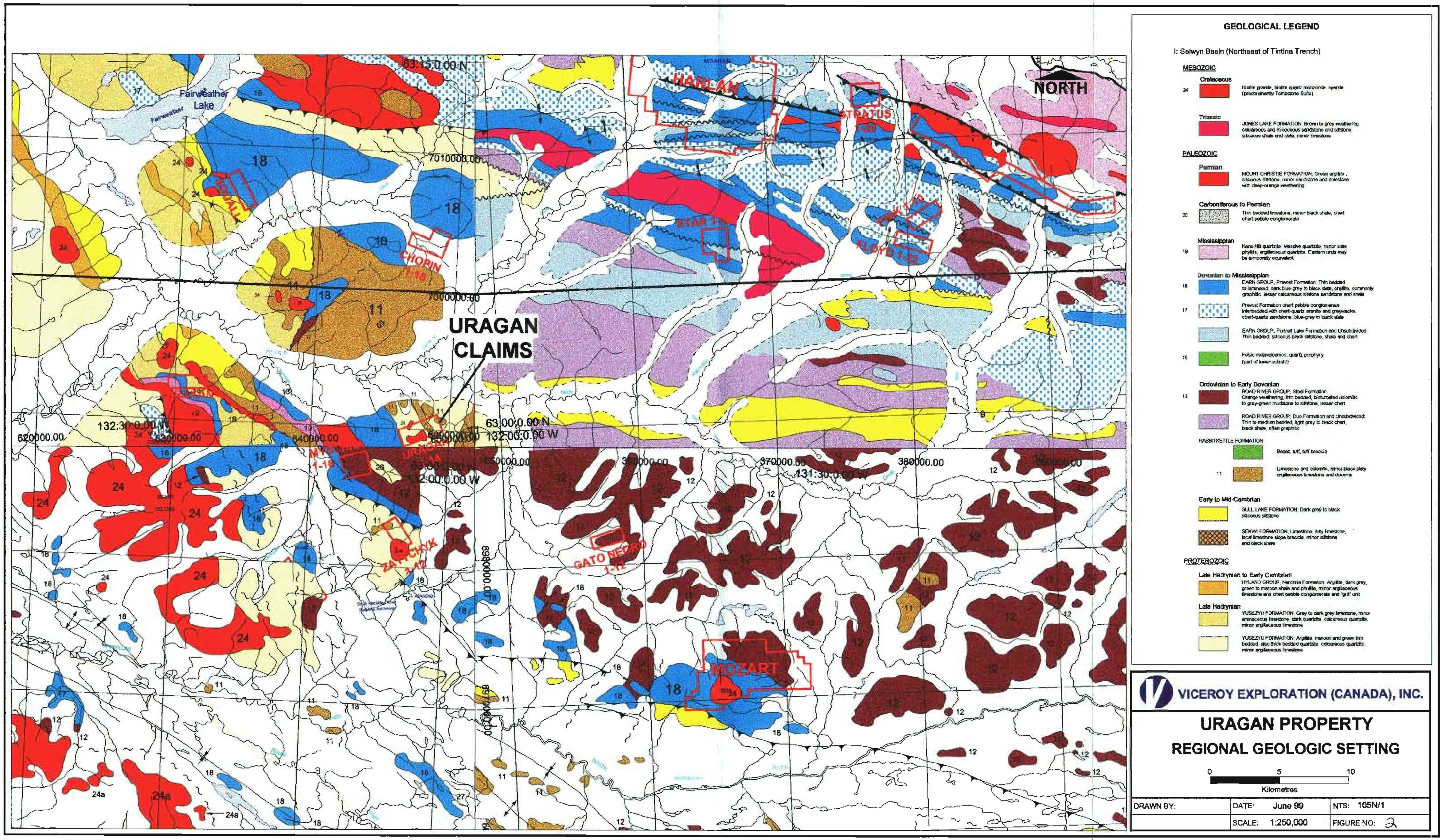
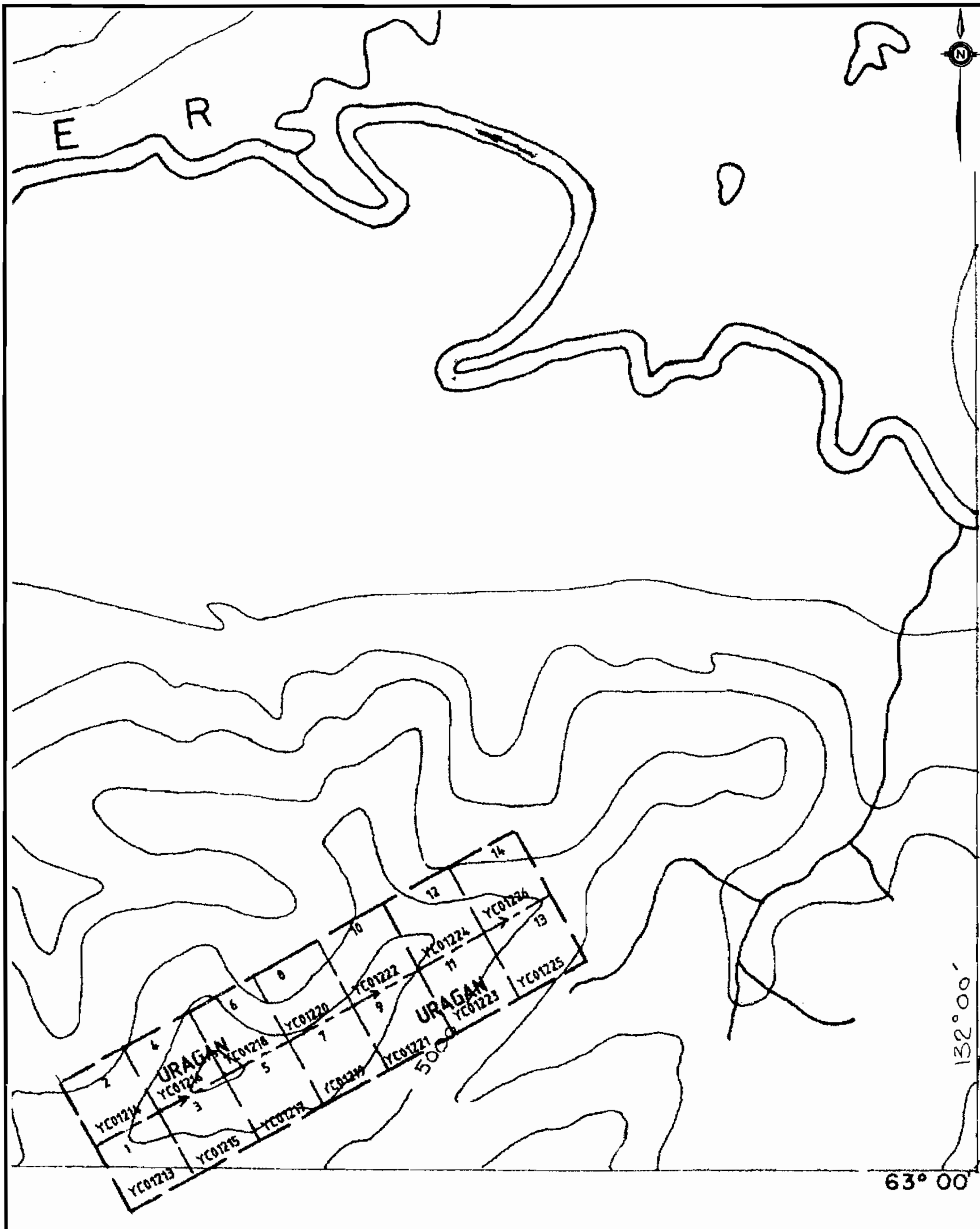


FIGURE 1: URAGAN PROPERTY GENERAL LOCATION MAP


NORTH
URAGAN CLAIMS
Fairweather Lake
HARLAN
STRATUS 1-20
STAR 1-12
FLOYD 1-22
CHOPIN 1-18
URAGAN 1-14
MYS 1-16
ZAYCHYK 1-12
GATO NEGRO 1-12
MOZART
63:15:0.00 N
7010000.00
7000000.00
63:00:0.00 N
132:00:0.00 W
132:30:0.00 W
131:30:0.00 W
620000.00
630000.00
640000.00
650000.00
360000.00
370000.00
380000.00
6990000.00
GEOLOGICAL LEGEND
I: Selwyn Basin (Northeast of Tintina Trench)
MESOZOIC
Cretaceous
24 Biotite granite, biotite quartz monzonite syenite (predominantly Tombstone Suite)
Triassic
JONES LAKE FORMATION: Brown to grey weathering calcareous and micaceous sandstone and siltstone, siliceous shale and slate, minor limestone
PALEOZOIC
Permian
MOUNT CHRISTIE FORMATION: Green argilite, siliceous siltstone, minor sandstone and dolostone with deep-orange weathering
Carboniferous to Permian
20 Thin bedded limestone, minor black shale, chert chert pebble conglomerate
Mississippian
19 Keno Hill quartzite: Massive quartzite, minor slate phyllite, argillaceous quartzite. Eastern units may be temporally equivalent
Devonian to Mississippian
18 EARN GROUP, Prevost Formation: Thin bedded to laminated, dark blue-grey to black slate, phyllite, commonly graphitic, lesser calcareous siltstone sandstone and shale
17 Prevost Formation chert pebble conglomerate interbedded with chert-quartz arenite and greywacke, chert-quartz sandstone, blue-grey to black slate
EARN GROUP, Portrait Lake Formation and Unsubdivided. Thin bedded, siliceous black siltstone, shale and chert
16 Felsic metavolcanics, quartz porphyry (part of lower schist?)
Ordovician to Early Devonian
12 ROAD RIVER GROUP, Steel Formation. Orange weathering, thin bedded, bioturbated dolomitic to grey-green mudstone to siltstone, lesser chert
ROAD RIVER GROUP: Duo Formation and Unsubdivided: Thin to medium bedded, light grey to black chert, black shale, often graphitic
RABBITKETTLE FORMATION
Basalt, tuff, tuff breccia
11 Limestone and dolomite, minor black platy argillaceous limestone and dolomite
Early to Mid-Cambrian
GULL LAKE FORMATION: Dark grey to black siliceous siltstone
SEKWI FORMATION: Limestone, silty limestone, local limestone slope breccia, minor siltstone and black shale
PROTEROZOIC
Late Hadrynian to Early Cambrian
HYLAND GROUP, Narchilla Formation: Argillite, dark grey, green to maroon shale and phyllite, minor argillaceous limestone and chert pebble conglomerate and "grit" unit
Late Hadrynian
YUSEZYU FORMATION. Grey to dark grey limestone, minor arenaceous limestone, dark quartzite, calcareous quartzite, minor argillaceous limestone
YUSEZYU FORMATION. Argillite, maroon and green thin bedded, also thick bedded quartzite, calcareous quartzite, minor argillaceous limestone
VICEROY EXPLORATION (CANADA), INC.
URAGAN PROPERTY
REGIONAL GEOLOGIC SETTING
0 5 10
Kilometres
DRAWN BY:
DATE: June 99
NTS: 105N/1
SCALE: 1:250,000
FIGURE NO: 2

094051



0 2500 5000 ft.

0 1000 m

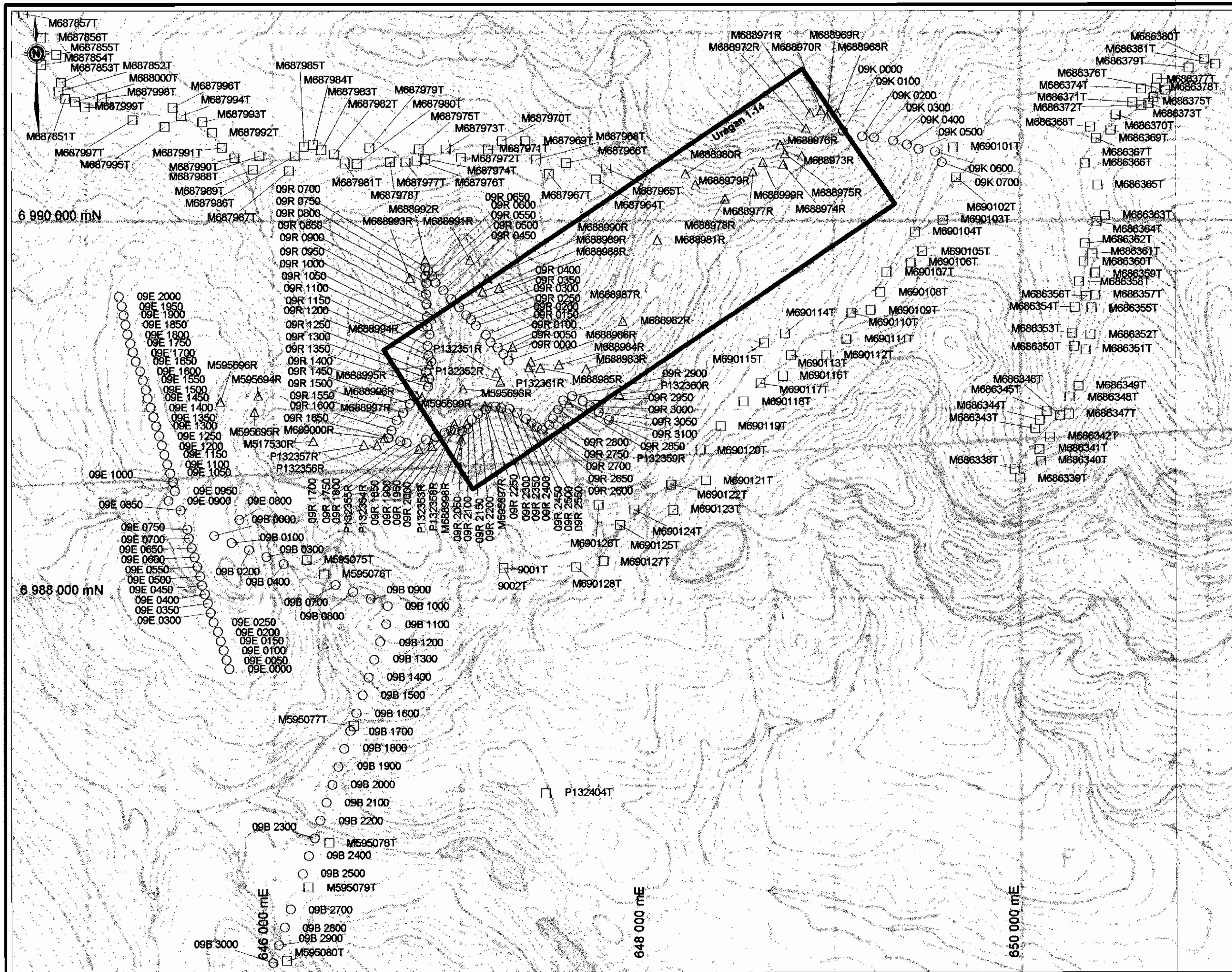
Scale 1 inch = 0.5 mile or 1:31,680

Date: May 99 NTS: 105N/1

VICEROY EXPLORATION (CANADA), INC.

URAGAN PROPERTY
CLAIM MAP

Fig. 3



LEGEND

- Silt sample
- Soil sample
- Rock sample

0 1 km

VICEROY EXPLORATION (CANADA), INC.

URAGAN PROPERTY
(Target 9)
(YUKON REGIONAL PROJECT)

SAMPLE NUMBER MAP

DRAWN BY: CS, TL	DATE: June.99	NTS: 105N/1
UTM, NAD27, ZONE 8	SCALE: 1:20,000	FIGURE NO: 4

Table 1 below lists detailed claim status, including assessment status and expiry dates following the 1998 filing.

Table 1. Status of Urugan Property claims after 1998 filing

Claim Name	*Grant No.*	*Owner*	*New expiry date*	*Work completed By*
Urugan 001-014	YC01213-01226	Viceroy Exploration (Canada), Inc.	July 7, 2002	Viceroy

1.5 Work Program

During 1998, rock, silt and soil sampling, prospecting and geological mapping were carried out in the vicinity of what would be come the Urugan claims. Applicable work for assessment included 4 rock and 41 soil samples collected at the end of July, and prospecting and geological mapping over the claims. Sample locations for 1998 and prior years are shown on Figure 4. Please note that the appendices contain only costs and the rock and silt samples applicable for 1998 assessment

1.5.1 Sample Preparation and Assay Procedure

All samples were shipped and analyzed by Chemex Labs of North Vancouver, B.C. Soil samples were dried and sieved to – 80 mesh, and rock samples were crushed and pulverized to – 150 mesh. All samples were subject to 30g fire assay for gold with an atomic absorption finish, and also analyzed by 32 element ICP scan. Mercury was analyzed using a 10 ppb detection limit. Rejects are retained at Chemex Labs for one year. All sample locations have been tied into UTM co-ordinates and have been plotted. A sample database in Microsoft Excel format is included and can be interfaced with Autocad Map or MapInfo software programs.

1.5.2 Personnel

All applicable assessment work was done by Carl Sehulze, Senior Exploration Geologist; Serguei Soloviev, Geologist and field assistant S. Erdman.

CHAPTER 2: GEOLOGY

2.1 Regional Geology

The Urugan Property is located within the Selwyn Basin which consists of a broad package of Paleozoic sediments extending ESE from north-west of Dawson City to the Yukon-NWT border north of the major NW-SE trending Tintina Fault Zone. This stratigraphy consists of shallow shelf to off-shelf marine clastic and chemical sediments, as well as basinal clastic sediments derived from the Ancient North American Platform to the north-east. Age of deposition ranges from Late Precambrian to Permian. At least two major episodes of rifting have occurred: the first during deposition of the Late Precambrian Hyland Group sediments, and the second during deposition of the Devono-Mississippian Earn Group sediments (Table 2, Figure 2). These major rift zones often host poorly sorted coarse clastic sediments, such as debris flows or turbidite horizons. Several episodes of continental uplift have led to periods of increased erosion and resulting continental margin or miogeosynclinal deposition, resulting in the creation of sequences of comparatively high energy, shallow water sediments, often coarsely grained and variably calcareous. These are separated by strata formed under deeper, quieter water conditions, resulting in formation of fine clastic sediments and chert. The Mid-Cretaceous Tombstone-Tungsten Suite (95-89 Ma) has been emplaced within the Selwyn Basin. Intrusives of this suite occur along an ESE trending belt extending for over 500 kilometres from north-west of Dawson City, Yukon to the Yukon-NWT border. Intrusives are believed to control much of the economic gold mineralization within the Selwyn Basin.

Extensive thrust faulting along the entire extent of the Selwyn Basin began during Late Jurassic time, resulting in creation of a compressional regime. Most thrust faults are oriented roughly ESE, dipping to the south-west, subparallel to the overall ESE trend of stratigraphy. Several major regional thrust faults were formed including the Dawson Thrust, Tombstone Thrust, and Robert Service Thrust. This regional lineation has been overprinted by a slightly less pronounced NE-SW lineation, marked by high angle orthogonal faults suggesting the compressional regime was followed by an extensional tectonic regime.

2.2 Property Geology

The Uragan Claims cover a gossanous ENE trending ridge. The property is underlain by a large package of Road River Group siltstone to calcareous siltstone with lesser chert in contact with a large package of Road River Group chert and lesser siltstone to the south (Plate 1). Bedding is oriented SSE, and is steeply dipping, variably to the east and west. An elongated Tombstone Suite dioritic stock extends along the contact. A strongly brecciated limonitic zone, often baritic, occurs within and to the south of the stock, surrounded in turn by a wider zone of silicification and quartz veining. Reactive calcareous siltstone has locally undergone calc-silicate alteration, and localized strongly brecciated zones occur across the property. A pronounced lineament trends ENE about 400 metres south-east of the property.

TABLE 2: STRATIGRAPHIC COLUMN, URUGAN PROPERTY

Age	Group	Formation (Lithology)	Geology Map Designation	Description
Mid-Late Cretaceous (95-89Ma)	Tombstone-Tungsten Plutonic Suite	Diorite through Granite (Most commonly Quartz-Monzonite)	Kqm, Kg, Kdr	Felsic to intermediate, dioritic to granitic intrusives, most commonly monzonitic, quartz monzonitic to quartz dioritic. Frequently quartz-feldspar to feldspar porphyritic within upper emplacement levels and dykes. Tungsten Suite along Yukon - NWT border is now believed to be part of Tombstone Suite.
Devonian - Mississippian	Earn Group	**Prevost Formation** Shale, chert-pebble-conglomerate, chert-quartz sandstone	DMp, (Dme)	Brown weathering shale, grey - grey-brown weathering chert-pebble-conglomerate, dark grey to black chert-quartz sandstone.
Devonian - Mississippian	Earn Group	**Portrait Lake Formation** Shale, chert	Dp, (Dme)	Shale, chert, minor sandstone and conglomerate.
Ordovician - Early Devonian	Road River Group	**Steel Formation**	SS (OSDr)	Weakly to moderately calcareous orange weathering mudstone to siltstone, often bioturbated reflecting oxygenated bottom water conditions.
Ordovician - Early Devonian	Road River group	**Duo Lake Formation**	OSD (OSDr)	Black siliceous shale and chert, minor limestone. Weathers black to bluish white; local tan weathering.
Ordovician - Early Devonian	Road River group	**Menzies Creek Formation**	Mv	Basalts, andesites; frequently porphyritic and calcareous.

CHAPTER 3: MINERALIZATION

3.1 Property Mineralization

Rock grab sampling has returned weakly anomalous values to 75 ppb Au located 1.2 kilometres north-east of the stock, as well as values to 60 ppb Au roughly 100 metres north of the northern property boundary. Soil sampling returned values of 46 ppb Au/ 350 metres, open to the north, from contour sampling across the north boundary, as well as a sample returning 275 ppb Au, and 26 ppb Au/ 500 metres roughly 300 metres south of the stock, across the southern flank of the ridge. These zones comprise an anomalous area of roughly one square kilometre. Silt sampling returned anomalous values to 50 ppb Au, with 4.8 gpt Ag and 640 ppb Hg from streams draining the northern soil anomaly, as well as a value of 150 ppb Au obtained 0.8 kilometres further downstream to the west. Values of 90 and 50 ppb Au were returned from closely spaced sampling one kilometre south-west of the claims, and a value of 65 ppb Au was returned from the ENE trending lineament.

CHAPTER 4: CONCLUSIONS

The Urugan Property, consisting of the Urugan 1-24 Claims located in Central Yukon on NTS sheets 105N/08, was staked in 1998 by Viceroy Exploration (Canada), Inc.

The Urugan Property is located within the Paleozoic Selwyn Basin which consists of a broad package of Paleozoic sediments extending ESE from north-west of Dawson City to the Yukon-NWT border north of the major NW-SE trending Tintina Fault Zone. This stratigraphy consists of shallow shelf to off-shelf marine clastic and chemical sediments, as well as basinal clastic sediments derived from the Ancient North Ameriean Platform to the north-east. Several episodes of continental uplift have led to periods of increased erosion and resulting continental margin or miogeosynclinal deposition, resulting in formation of comparatively high energy, shallow water sediments, often coarsely grained and variably calcareous. These are separated by strata formed under deeper, quieter water conditions, resulting in formation of fine clastic sediments and chert. The Mid-Cretaceous Tombstone-Tungsten Suite (95-89 Ma) has been emplaced within the Selwyn Basin. Members of this suite occur along an ESE trending belt extending for over 500 kilometres from north-west of Dawson City, Yukon to the Yukon-NWT border. Tombstone Suite intrusives are believed to control much of the economic gold mineralization within the Selwyn Basin.

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Exploration expenditures in 1998 amounted to $4,809

CHAPTER 5: RECOMMENDATIONS

Further exploration should focus on defining the extent and ultimate significance of gold-in-soil anomalies immediately north and south of the diorite stock.

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Poulson, K.H., 1996: Carlin Type Gold Deposits: Canadian Potential?, in New Deposit Models of the Cordillera, Northwest Mining Association short course.

Roots, C.F. Abbott, J.G. Cecile, M.P. Gordey, S.P. 1995: Bedrock Geology of Lansing Range Map Area (105N), East Half, Hess Mountains, Yukon; Exploration and Geological Services, Yukon Region, and Indian and Northern Affairs Canada.

Schulze, C, 1997: Yukon Regional Project, 1997 Progress Report; In-house Report, Viceroy Exploration (Canada), Inc.

STATEMENT OF QUALIFICATIONS

I, Rick Diment, of the City of Whitehorse, Yukon Territory, Canada, do hereby certify that:

1) I have held the position of Senior Exploration Geologist with Viceroy Exploration (Canada), Inc, since 1996.

2) I graduated from University of British Columbia with a Bachelor of Science Degree in Geology in 1986.

3) I have been continually active in mineral exploration since 1986.

4) Although I did not supervise the field activities or have not been to the property described in this report; information was compiled from the Field Party Chief's field notes and reports (Carl Schulze).

Rick Diment
Senior Geologist
Viceroy Exploration (Canada) Inc.

APPENDIX 1

APPLICABLE EXPENDITURES FOR ASSESSMENT CREDITS

Urugan Property Expenditures	
Description	**Expenditure**
Labor	$785
Camp costs	120
Helicopter	759
Fixed Wing	650
Geochemical Analyses	900
Ground Transportation	70
Report Writing	1,525
Total	**4,809**

APPENDIX 2

ROCK ASSAY RESULTS

Urugan
Rock Sample Description and Assays

Sample_	X_Coord	Y_Coord	Z_Coord	Traverse	Zone	Type	Width_m	Desc	Fm	Lithology	Modifier	Colour	Carb	Silicif	Alt_ARG	Alt_POT	Alt_PHY	Limonite	Mineral_1	M1_Amt	Mineral_2	M2_Amt	Mineral_3	M3_Amt	Date	Name
P132051R	629950	6992500		9Q	8	c		Oc	OSDr	HORN	sr	mgy		S1				wk	Po	8					07/25/98	SS
P132052R	630000	6992550		9Q	8	g		rb	OSDr	SLT	Hs	bm		S1				wk	Po	3	Scor	5			07/25/98	SS
P132053R	630050	6992600		9Q	8	g		rb	OSDr	SLT	Hs	bm		S1				wk	Po	2	Scor	3			07/25/98	SS
P132361R	647373	6989220		9R	8	cg		tf	OSDr	CH	brec	tan		S1	A1			st							07/25/98	CS

ASAMP	Au_ppb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn	Comments
P132051R	2	0.1	1.72	40	1240	0.5	1	0.11	0.25	15	74	77	2.22	5	5	0.38	10	0.72	6370	26	0.02	33	320	12	1	4	32	0.1	5	5	52	5	84	Skarned by Px
P132052R	10	0.4	0.66	18	910	0.25	1	0.01	0.25	1	111	51	0.95	5	5	0.2	20	0.25	75	3	0.01	5	190	2	1	2	21	0	5	5	16	5	22	Scor along fractures
P132053R	10	0.2	0.8	28	3770	0.25	1	0.005	0.5	1	145	22	1.85	5	5	0.14	5	0.32	190	0	0.01	5	130	10	1	1	54	0	5	5	16	5	28	Scor along fractures
P132361R	10	0.1	0.68	8	3970	0.2	1	0	0	5	89	8	7.11	5	0	0	5	0.03	130	1	0	48	600	6	1	9	31	0	5	5	64	5	196	Yellow - tan limonite as mat

APPENDIX 3

SOIL ASSAY RESULTS

Urugan
Soil Sample Description and Assays

Sample	X_Coord	Y_Coord	Z_Coord	Zone	Horizon	Depth_cm	Slope_Ang	Colour	Permafros	Cse_Frags	Vegetation	Surf_Geol	Frag_Lith	Organics	Date	Name
09R 0000	647265.6	6989260		9R	B	0	ht	brn		10	td	tf	CH	0	07/24/98	SE
09R 0050	647238.2	6989294		9R	B	0	ht	brn		10	td	tf	CH	0	07/24/98	SE
09R 0100	647207.8	6989327		9R	B	10	ht	gry		20	td	tf	intrsv	0	07/24/98	SE
09R 0150	647169.5	6989357		9R	B	0	st	gry		10	td	tf	intrsv	10	07/24/98	SE
09R 0200	647145	6989395		9R	B	0	st	gry		0	td	tf	intrsv	0	07/24/98	SE
09R 0250	647091.9	6989444		9R	B	0	st	gry		0	td	tf	CH	0	07/24/98	SE
09R 0300	647066.6	6989475		9R	B	0	sl	or		10	td	tf	CH	0	07/24/98	SE
09R 0350	647038.4	6989501		9R	B	0	st	gry		0	td	tf	CH	0	07/24/98	SE
09R 0400	647001.7	6989543		9R	B	10	st	gry		20	td	tf	CH	10	07/24/98	SE
09R 1000	646830.6	6989439		9R	B	0	st	brn		0	td	tf	intrsv	0	07/24/98	SE
09R 1050	646842.1	6989398		9R	B	0	st	brn		10	td	tf	CH	10	07/24/98	SE
09R 1100	646832.1	6989336		9R	B	10	st	brn		10	td	tf	CH	10	07/24/98	SE
09R 1150	646837.8	6989285		9R	B	10	st	brn		30	td	tf	CH	30	07/24/98	SE
09R 1200	646853	6989256		9R	B	0	st	brn		30	td	tf	CH	30	07/24/98	SE
09R 1250	646823.6	6989199		9R	B	0	st	brn		0	td	tf	intrsv	0	07/24/98	SE
09R 1300	646842	6989162		9R	B	0	st	tan		20	td	tf	intrsv	10	07/24/98	SE
09R 1350	646834.4	6989120		9R	B	0	st	brn		0	td	tf	intrsv	0	07/24/98	SE
09R 1400	646758.2	6989073		9R	B	0	st	or		30	td	tf	CH	30	07/24/98	SE
09R 1450	646737.6	6989029		9R	B	0	st	brn		30	td	tf	CH	10	07/24/98	SE
09R 1950	646956.3	6988887		9R	B	0	st	or		10	td	tf	intrsv	0	07/24/98	SE
09R 2000	646976.4	6988890		9R	B	10	st	tan		0	td	tf	CH	0	07/24/98	SE
09R 2050	647017.2	6988884		9R	B	0	st	tan		10	td	tf	intrsv	10	07/24/98	SE
09R 2100	647049.9	6988897		9R	B	0	st	tan		0	td	tf	CH	10	07/24/98	SE
09R 2150	647069.5	6988945		9R	B	0	st	tan		0	td	tf	CH	0	07/24/98	SE
09R 2200	647102.8	6988974		9R	B	0	st	brn		10	td	tf	CH	10	07/24/98	SE
09R 2250	647145.4	6988998		9R	B	10	st	brn		10	td	tf	intrsv	10	07/24/98	SE
09R 2300	647195.2	6989015		9R	B	0	st	tan		20	td	tf	intrsv	0	07/24/98	SE
09R 2350	647226.8	6989007		9R	B	30	st	tan		10	td	tf	CH	0	07/24/98	SE
09R 2400	647269.4	6989001		9R	B	0	st	gry		0	td	tf	CH	0	07/24/98	SE
09R 2450	647311.4	6988981		9R	B	0	st	tan		10	td	tf	CH	0	07/24/98	SE
09R 2500	647360	6988948		9R	B	10	st	tan		10	td	tf	CH	10	07/24/98	SE
09R 2550	647389	6988925		9R	B	0	st	buff		0	td	tf	CH	0	07/24/98	SE
09R 2600	647417	6988904		9R	B	0	st	buff		0	td	tf	CH	0	07/24/98	SE
09R 2650	647444.9	6988892		9R	B	0	st	buff		0	td	tf	CH	0	07/24/98	SE
09R 2700	647483.5	6988916		9R	B	0	st	brn		10	td	tf	CH	10	07/24/98	SE
09R 2750	647502.5	6988951		9R	B	10	st	brn		20	td	tf	CH	20	07/24/98	SE
09R 2800	647531.1	6988999		9R	B	10	st	brn		20	td	tf	CH	20	07/24/98	SE
09R 2850	647558.5	6989046		9R	B	10	st	brn		10	td	tf	CH	10	07/24/98	SE
09R 2900	647605.2	6989070		9R	B	10	st	brn		0	td	tf	CH	10	07/24/98	SE
09R 2950	647660.7	6989043		9R	B	10	st	brn		10	td	tf	CH	20	07/24/98	SE
09R 3000	647702	6989016		9R	B	10	st	brn		10	td	tf	CH	20	07/24/98	SE

Urugan
Soil Sample Description and Assays

ASAMP	Au_ppb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn	Comments
09R 0000	5	0.2	1.43	8	390	0.5	1	0.25	1	10	33	70	2.78	5	20	0.08	10	0.43	460	3	0.01	45	870	8	1	5	25	0.06	5	5	72	5	146	
09R 0050	45	0.1	3.16	10	270	0.5	2	0.22	0.5	16	23	11	2.51	5	50	0.07	10	0.51	220	1	0.01	24	630	10	4	4	36	0.07	5	5	55	5	102	
09R 0100	40	0.1	2.6	24	240	0.5	1	0.61	0.5	7	13	17	1.97	5	110	0.08	5	0.28	350	1	0.03	12	1200	8	1	1	84	0.05	5	5	46	5	60	
09R 0150	2	0.1	5.06	1	2030	1.5	1	2.08	0.2	13	12	12	3.05	5	30	0.17	10	0.83	1010	0.05	0.03	5	580	16	1	11	613	0.03	5	10	54	5	62	
09R 0200	275	0.1	4.96	1	9350	0.5	1	1.43	1	14	17	9	3.2	10	10	0.2	10	2.04	735	0.05	0.2	2	360	14	2	9	115	0.01	5	5	47	5	68	
09R 0250	2	0.1	2.33	1	700	1	1	0.35	0.2	12	12	13	3.38	5	40	0.11	10	0.49	505	0.05	0.01	13	430	10	1	13	12	0.03	5	5	58	5	140	
09R 0300	25	0.6	3.71	10	670	1.5	1	0.12	0.5	15	59	250	7.27	10	20	0.66	10	2.3	880	9	0.01	71	530	8	4	10	17	0.16	5	5	154	5	790	
09R 0350	2	0.2	1.21	1	170	0.2	1	0.06	0.2	7	21	57	2.83	5	30	0.12	5	0.22	650	1	0.03	18	1070	8	1	0.05	15	0.2	5	5	52	5	80	
09R 0400	2	0.2	1.63	1	190	0.5	1	0.08	0.2	13	27	83	3.59	5	50	0.08	10	0.29	510	3	0.01	51	590	6	2	3	15	0.04	5	5	65	5	158	
09R 1000	2	1.2	1.96	6	270	0.5	1	0.16	0.5	16	25	110	3.29	5	50	0.1	10	0.39	725	3	0.2	51	1150	14	1	3	23	0.04	5	5	60	5	162	
09R 1050	2	1.2	0.76	30	150	0.2	1	0.05	0.2	2	32	31	2.36	5	50	0.07	5	0.05	80	10	0.03	16	890	10	1	0.05	21	0.01	5	5	158	5	104	
09R 1100	25	5	1.46	8	290	0.5	1	0.1	0.5	5	46	108	5.12	5	120	0.13	10	0.14	260	6	0.01	28	1470	16	6	1	16	0.05	5	5	143	5	144	
09R 1150	2	2.2	0.46	4	140	0.2	1	0.03	0.2	1	26	23	2.04	5	60	0.08	5	0.2	60	6	0.04	12	1130	6	1	0.05	13	0.01	5	5	75	5	58	
09R 1200	20	0.8	1.17	8	190	0.2	1	0.08	0.2	6	30	77	3.66	5	80	0.1	5	0.18	515	4	0.2	45	910	12	2	1	18	0.2	5	5	83	5	118	
09R 1250	2	0.1	4.48	1	350	0.5	1	1.63	0.2	19	26	15	4.62	10	10	0.34	10	1.73	770	1	0.14	13	540	10	2	10	167	0.1	5	5	86	5	102	
09R 1300	15	0.4	1.26	10	490	0.5	1	0.15	3	27	15	74	3.75	5	120	0.06	10	0.2	2120	1	0.04	88	880	12	4	5	19	0.2	5	5	45	5	370	
09R 1350	25	0.8	0.84	28	1110	0.5	1	0.04	3.5	30	12	109	4.91	5	120	0.05	5	0.11	2200	1	0.03	93	1020	10	2	7	12	0.01	5	5	45	5	364	
09R 1400	2	0.2	0.88	48	280	0.5	1	0.04	0.5	5	25	151	6.1	5	90	0.09	10	0.05	230	7	0.01	78	2030	20	4	1	28	0.01	5	5	111	5	236	
09R 1450	2	0.8	0.61	28	140	0.2	1	0.03	0.5	3	17	58	2.53	5	70	0.07	5	0.04	60	3	0.04	27	1360	10	6	0.05	21	0.01	5	5	60	5	92	
09R 1950	2	0.4	1.25	12	210	0.5	1	0.06	0.2	8	25	50	2.66	5	60	0.1	10	0.21	550	1	0.2	25	710	8	1	1	13	0.03	5	5	54	5	98	
09R 2000	2	1.4	1.36	14	710	0.5	1	0.05	1.5	39	30	93	3.72	5	120	0.06	10	0.18	4120	3	0.01	73	860	14	1	3	14	0.2	5	5	62	5	318	
09R 2050	2	0.6	1.2	1	370	0.5	1	0.05	0.2	6	21	53	2.83	5	60	0.07	5	0.14	275	4	0.03	25	910	4	2	1	11	0.2	5	5	67	5	84	
09R 2100	2	0.1	4.2	1	810	0.5	1	0.74	0.5	16	12	13	4.51	10	20	0.18	10	1.33	985	0.05	0.2	8	880	18	1	9	42	0.03	5	5	76	5	134	
09R 2150	2	2	1.24	8	280	0.5	1	0.03	0.2	6	27	140	3.91	5	70	0.06	10	0.08	145	3	0.03	54	970	12	1	6	12	0.01	5	5	78	5	148	
09R 2200	2	1.4	3.7	1	810	0.5	1	0.34	1.5	12	24	29	3.55	5	70	0.12	5	0.81	670	4	0.2	22	1360	8	1	3	34	0.03	5	5	89	5	184	
09R 2250	55	9	1.19	38	410	0.5	1	0.41	0.5	3	114	144	7.39	5	150	0.28	10	0.15	245	29	0.03	58	6470	30	8	6	72	0.01	5	5	323	5	294	
09R 2300	40	10.2	1.27	46	160	0.5	1	0.1	0.5	1	175	193	9.84	5	130	0.54	20	0.16	165	32	0.01	53	4630	32	2	10	70	0.03	5	5	491	5	300	
09R 2350	25	9	0.82	42	520	0.5	1	0.06	0.2	1	113	74	5.21	5	240	0.28	20	0.08	330	17	0.01	32	2930	36	2	1	57	0.01	5	5	237	5	170	
09R 2400	45	5	0.62	10	430	0.5	1	0.01	0.2	0.05	92	66	1.06	5	1420	0.24	40	0.05	15	8	0.01	8	620	36	6	5	33	0.01	5	5	120	5	46	
09R 2450	10	0.8	1.04	32	540	0.5	1	0.08	0.2	4	41	96	5.17	5	70	0.09	10	0.18	150	9	0.01	39	1920	26	2	3	63	0.2	5	5	147	5	166	
09R 2500	2	1.2	0.9	8	540	0.2	1	0.06	0.5	3	40	96	4.19	5	70	0.09	10	0.09	240	5	0.2	38	960	26	1	2	25	0.2	5	5	102	5	192	
09R 2550	25	0.6	0.91	4	640	0.5	1	0.04	0.2	3	46	91	3.81	5	50	0.08	10	0.08	340	4	0.01	35	1080	16	6	1	25	0.01	5	5	102	5	172	
09R 2600	10	0.8	1.55	24	710	1	1	0.05	0.5	24	35	156	4.76	5	80	0.17	10	0.28	890	5	0.01	52	780	14	2	6	17	0.03	5	5	75	5	204	
09R 2650	20	0.8	2.54	4	980	2	1	0.11	1	38	40	208	5.04	5	70	0.38	10	0.86	1340	5	0.03	60	1200	12	1	6	19	0.08	5	5	81	5	228	
09R 2700	20	1.6	1.84	22	690	1.5	1	0.06	0.2	12	37	166	5.38	5	70	0.29	30	0.45	385	5	0.01	57	910	20	1	4	23	0.04	5	5	81	5	282	
09R 2750	2	0.4	1.26	10	380	0.5	1	0.04	0.2	15	32	79	4.27	5	90	0.19	10	0.23	1480	3	0.01	41	1060	16	2	1	20	0.2	5	5	60	5	188	
09R 2800	10	0.4	1.12	1	270	0.5	1	0.04	0.5	7	27	60	3.8	5	60	0.17	10	0.16	490	5	0.01	31	780	16	1	1	16	0.03	5	5	63	5	168	
09R 2850	2	0.6	1.25	8	210	0.2	1	0.07	0.2	7	27	39	3.86	5	70	0.13	10	0.14	415	3	0.01	25	610	10	1	2	15	0.05	5	5	59	5	146	
09R 2900	5	2.2	1.07	24	370	0.5	1	0.07	0.2	8	46	61	3.51	5	210	0.18	10	0.17	520	11	0.01	29	990	22	4	0.05	30	0.01	5	5	122	5	140	
09R 2950	2	1	1.52	8	250	0.5	1	0.07	0.5	10	47	58	4.61	5	80	0.14	10	0.23	730	6	0.01	30	1170	14	2	0.05	22	0.2	5	5	110	5	130	
09R 3000	2	0.6	0.91	10	140	0.2	1	0.05	0.2	3	19	35	1.7	5	40	0.09	5	0.12	170	2	0.03	12	730	6	2	0.05	11	0.01	5	5	45	5	56	

6 992 000 mN
642 000 mE
644 000 mE
646 000 mE
648 000 mE
650 000 mE
6 990 000 mN
6 988 000 mN
6 986 000 mN
6 984 000 mN
6 982 000 mN
6 980 000 mN
Uragan 1-14
OSDr
SLT, calc.
CH
KDr
Dior
Strongly Brecciated, Syenitic, Barite-rich
Zone of strong silicification and quartz veining
SLT
CH
ARG
Myschka 1-16
Main fracture zone controlling As+sulphide mineralization
Limits of explosive breccia zone
py, Aspy
Fault/fracture zone
OSDr
CH
DMe
CPC, SH
DMe
CPC
COr
LST
GW
CPC
Zaytchyk 1-12
Kqm
Kgd
FP dikes
OSDr
Blk SH
OSDr
CH, SH
Kqm
(QM)
Massive Po/Cp Skarn
PrCh
SLT, SS
RGS

6 988 000 mN
6 986 000 mN
6 984 000 mN
6 982 000 mN
6 980 000 mN
Myschka 1-16
Main fracture zone controlling As+sulphide mineralization
Limits of explosive breccia zone
py, Aspy
Fault/fracture zone
Zaytchyk 1-12
OSDr
CH
DMe
CPC, SH
DMe
CPC
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LST
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Kgd
FP dikes
OSDr
Blk SH
OSDr
CH, SH
Kqm
Kqm
(QM)
Massive Po/Cp Skarn
KDr
Dior
Zone of strong silicification and quartz veining
SLT
CH
ARG
GW
RGS
GEOLOGICAL LEGEND
Cretaceous: Tombstone Suite
Kgd,Kqm - Granodiorite(GDR), Diorite(DIOR), local quartz-monzonite(QM) dikes, quartz-monzonite stock SE of Zeytchik. Locally feldspar porphyritic(FP).
Devono-Mississippian: Earn Group
DMe - Chert-pebble conglomerate(CPC), shale(SH).
Ordovician to Devonian: Road River Group
OSDr - Chert(CH), minor shale
OSDr - Shale(SH), siltstone(SLT), locally calcareous, minor limestone-marble(LST), local argillite(ARG).
Cambrian to Ordovician: Rabbitkettle Formation
COr - Limestone(LST), minor siltstone
Precambrian to Early Cambrian
PrCh - "Gritty" siltstone(SLT) to coarse sandstone(SS), locally calcareous, minor shale.
Geological contact
Outcrop boundary
Limit of alteration
Strike and dip of bedding
Strike and dip of foliation
Fault
As = Arsenopyrite
blk = Black
GEOCHEMISTRY LEGEND
Silt samples
<= 14 ppb Au (126)
15 to 34 ppb Au (17)
35 to 49 ppb Au (0)
50 to 99 ppb Au (4)
>= 100 ppb Au (1)
Soil samples
<= 19 ppb Au (281)
20 to 49 ppb Au (15)
50 to 99 ppb Au (7)
100 to 249 ppb Au (0)
250 to 499 ppb Au (1)
>= 500 ppb Au (0)
Rock samples
<= 19 ppb Au (145)
20 to 99 ppb Au (22)
100 to 499 ppb Au (15)
500 to 999 ppb Au (3)
>= 1000 ppb Au (0)
RGS Stream sediment sample Au in ppb (-1 = element not analysed)
Map Datum : UTM Zone 8 (NAD27)
0 0.5 1
Kilometres
Scale: 1:10,000
094051
VICEROY EXPLORATION (CANADA), INC.
Target 9 Properties
(Myschka, Uragan and Zaytchyk Claims)
COMPILATION &
GOLD GEOCHEMISTRY
DRAWN BY: CS,TL,AF
DATE: Dec. 1998
NTS: 105K/16 & 105N/1
REVISION:
SCALE: 1:10,000
PLATE NO:


6 992 000 mN
6 990 000 mN
6 988 000 mN
6 986 000 mN
6 984 000 mN
6 982 000 mN
6 980 000 mN
642 000 mE
644 000 mE
646 000 mE
648 000 mE
650 000 mE
Uragan 1-14
Myschka 1-16
Zaytchyk 1-12
OSDr
SLT, calc.
CH
KDr
Dior
OSDr
CH
DMe
CPC, SH
DMe
CPC
COr
LST
PrCh
SLT, SS
Kqm
Kgd
FP dikes
OSDr
Blk SH
OSDr
CH, SH
Kqm
(QM)
SLT
CH
Main fracture zone controlling Au-sulphide mineralization
Limits of explosive breccia zone
RGS
GEOLOGICAL LEGEND
Cretaceous: Tombstone Suite
Kgd,Kqm - Granodiorite(GDR), Diorite(DIOR), local quartz-monzonite(QM) dikes, quartz-monzonite stock SE of Zaytchik. Locally feldspar porphyritic(FP).
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Outcrop boundary
Limit of alteration
Strike and dip of bedding
Strike and dip of foliation
Fault
As = Arsenopyrite
blk = Black
GEOCHEMISTRY LEGEND
Silt samples
<= 14 ppb Au (126)
15 to 34 ppb Au (17)
35 to 49 ppb Au (0)
50 to 99 ppb Au (4)
>= 100 ppb Au (1)
Soil samples
<= 19 ppb Au (281)
20 to 49 ppb Au (15)
50 to 99 ppb Au (7)
100 to 249 ppb Au (0)
250 to 499 ppb Au (1)
>= 500 ppb Au (0)
Rock samples
<= 19 ppb Au (145)
20 to 99 ppb Au (22)
100 to 499 ppb Au (15)
500 to 999 ppb Au (3)
>= 1000 ppb Au (0)
RGS Stream sediment sample Au in ppb (-1 = element not analysed)
Map Datum : UTM Zone 8 (NAD27)
0
0.5
1
Kilometres
Scale: 1:10,000
VICEROY EXPLORATION (CANADA), INC.
Target 9 Properties
(Myschka, Uragan and Zaytchyk Claims)
COMPILATION &
GOLD GEOCHEMISTRY
094051
DRAWN BY: CS,TL,AF
DATE: Dec. 1998
NTS: 105K/16 & 105N/1
REVISION:
SCALE: 1:10,000
PLATE NO:

094051