





M.R. file no.
R.M.M.R. file no.
Date forwarded <i>15 Nov. 93</i>

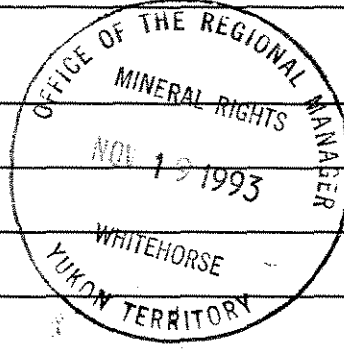
TRANSMITTAL FORM

From Mining Recorder at: *Mayo*

To Regional Manager, Mineral Rights at Whitehorse, Y.T.

For action are:

<input type="checkbox"/> NEW APPLICATION FOR PLACER LEASE TO PROSPECT	Name	
<input type="checkbox"/> RENEWAL APPLICATION PLACER LEASE TO PROSPECT	Name	Lease no.
<input type="checkbox"/> AFFIDAVIT OF EXPENDITURE ON PLACER LEASE	Name	Lease no.
<input type="checkbox"/> SECURITY DEPOSIT		
<input type="checkbox"/> FINANCIAL ABILITY		
<input type="checkbox"/> ASSIGNMENT OF PLACER LEASE NO.	From	To
<input type="checkbox"/> GROUPING APPLICATION UNDER SEC. 52(2) PLACER MINING ACT.	Owner	
<input type="checkbox"/> DIAMOND DRILL LOGS	Claims	Claim sheet no.
<input checked="" type="checkbox"/> QUARTZ ASSESSMENT REPORT	Claims <i>Jeff 125F</i>	Claim sheet no. <i>106-D-4/105-M-13</i>
	Type of report <i>Hand Pitting + Gravity Concentration</i>	Submitted by <i>C.N. Orsich</i>
	Cls. work performed on <i>olive, RD 3,5, 14+16</i>	\$ req. for ren. application <i>300.00</i>



Please return one numbered copy of Report and index card for our files.

*Graham*  
Signature

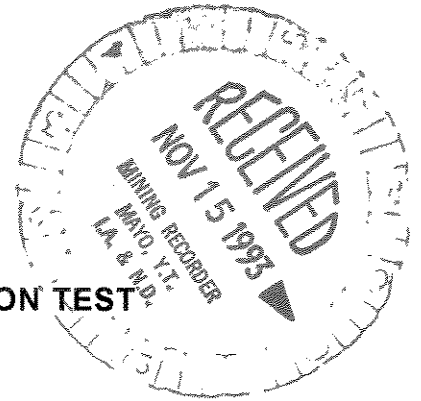
REPLY ACTION 093140 Date returned

*Was this report submitted as physical work? It does not exactly meet requirements for a quartz assessment reports ie: no geology, conclusions; sample descriptions; references as physical work, it's fine*

*Paul Cavello*  
Signature

1993 HAND PITTING AND GRAVITY CONCENTRATION TEST

ASSESSMENT REPORT



Author: C.N. Orssich, P. Geo.

Date: October 1993

Work period: September 3, 1993

Claims: Jeff 125F

**YA 93 071**

Location: Area - Central Yukon Territory  
Mining District - Mayo  
Co-ordinates 135° 51' W Longitude  
64° 02' N Latitude  
N.T.S.- 105 M/13, 106 D/4



Owner: Ivanhoe Goldfields Ltd.  
Queenstake Resources Ltd.

**093140**

Operator: Ivanhoe Goldfields Ltd.

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## GENERAL STATEMENT

The Dublin Gulch property is located 70 km by road north of Mayo, Yukon in the Mayo Mining District (Figure 1). Eleven samples averaging 25 kilograms were collected from small hand dug pits in the Bawn Boy Pup area of the Dublin Gulch property (Figure 3). The pits were dug in a series of old trenches that had exposed a 1 to 2 metre thick surface layer of decomposed granodiorite in an area of anomalous Au and W values in soil and rock samples. To test the viability of recovering Au and W from the decomposed layer, samples were passed through a 1/2 inch screen and the minus 1/2 inch fraction was concentrated in a sluice. Both the concentrate and the plus 1/2 inch fraction were sent to Chemex Labs Ltd. of North Vancouver for analysis, (Appendix I).

Results demonstrate that the W and Au content of decomposed granodiorite can be easily upgraded with a simple screening and gravity recovery process. Although the thickness and gold grade of the decomposed intrusive in the Bawn Boy Pup area are limited, a simple gravity process might be economically feasible where gold grades are higher and the layer of decomposed intrusive more extensive.

Work was performed on September 3, 1993 on the RD 3, 5, 14, 16 mineral claims and the Olive crown grant. The claims were grouped in such a way to apply work to the Jeff 125F (YA43071) fractional mineral claim. The total cost of the survey was \$889.78, (Appendix II). Upon acceptance of the assessment work filed with this report the expiry date of Jeff 125F will be October 1, 1995.

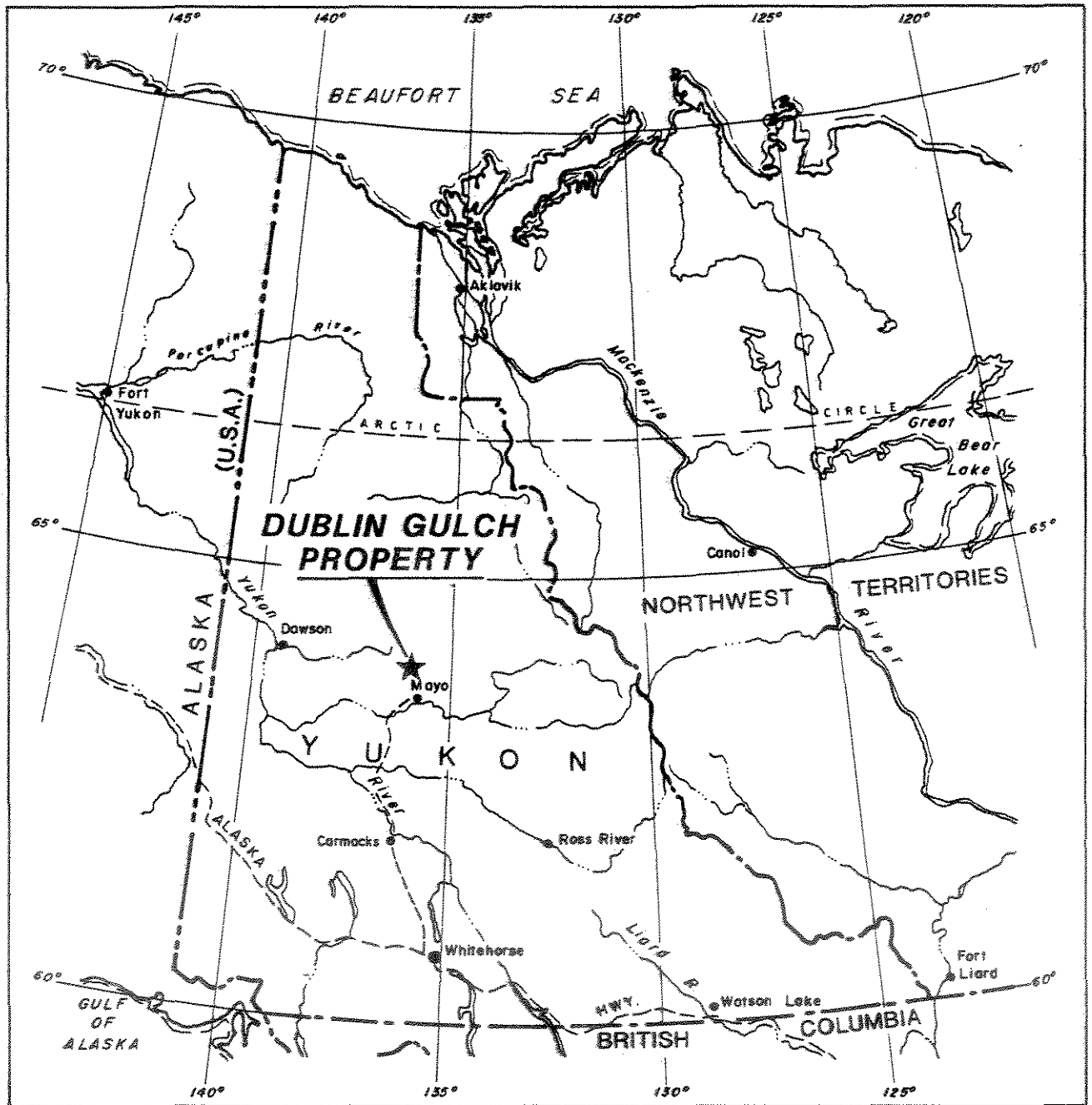
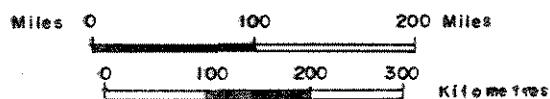


FIGURE 1

IVANHOE GOLDFIELDS LTD.

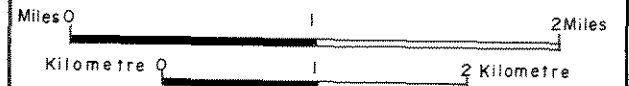
LOCATION MAP



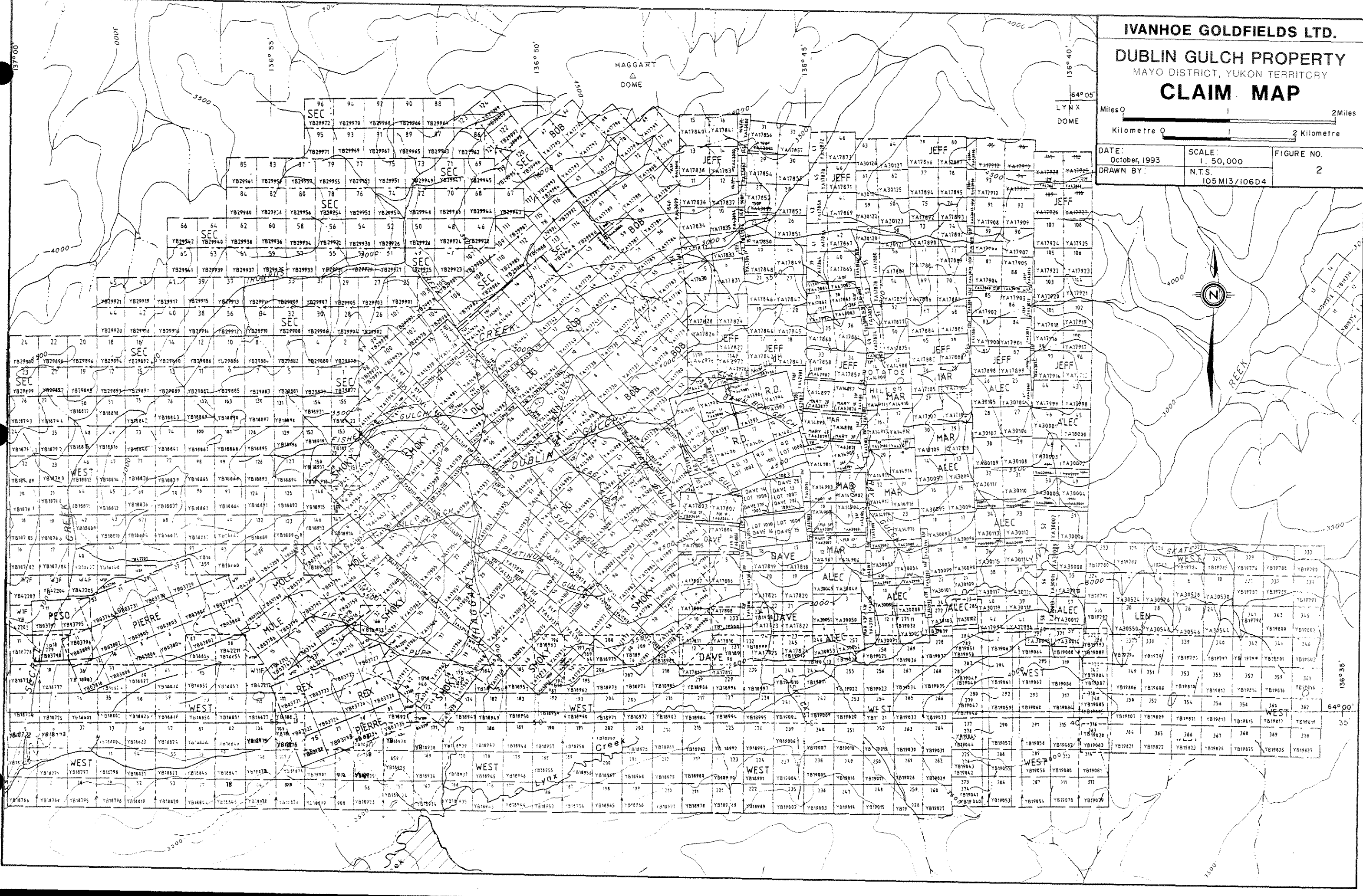
IVANHOE GOLDFIELDS LTD.

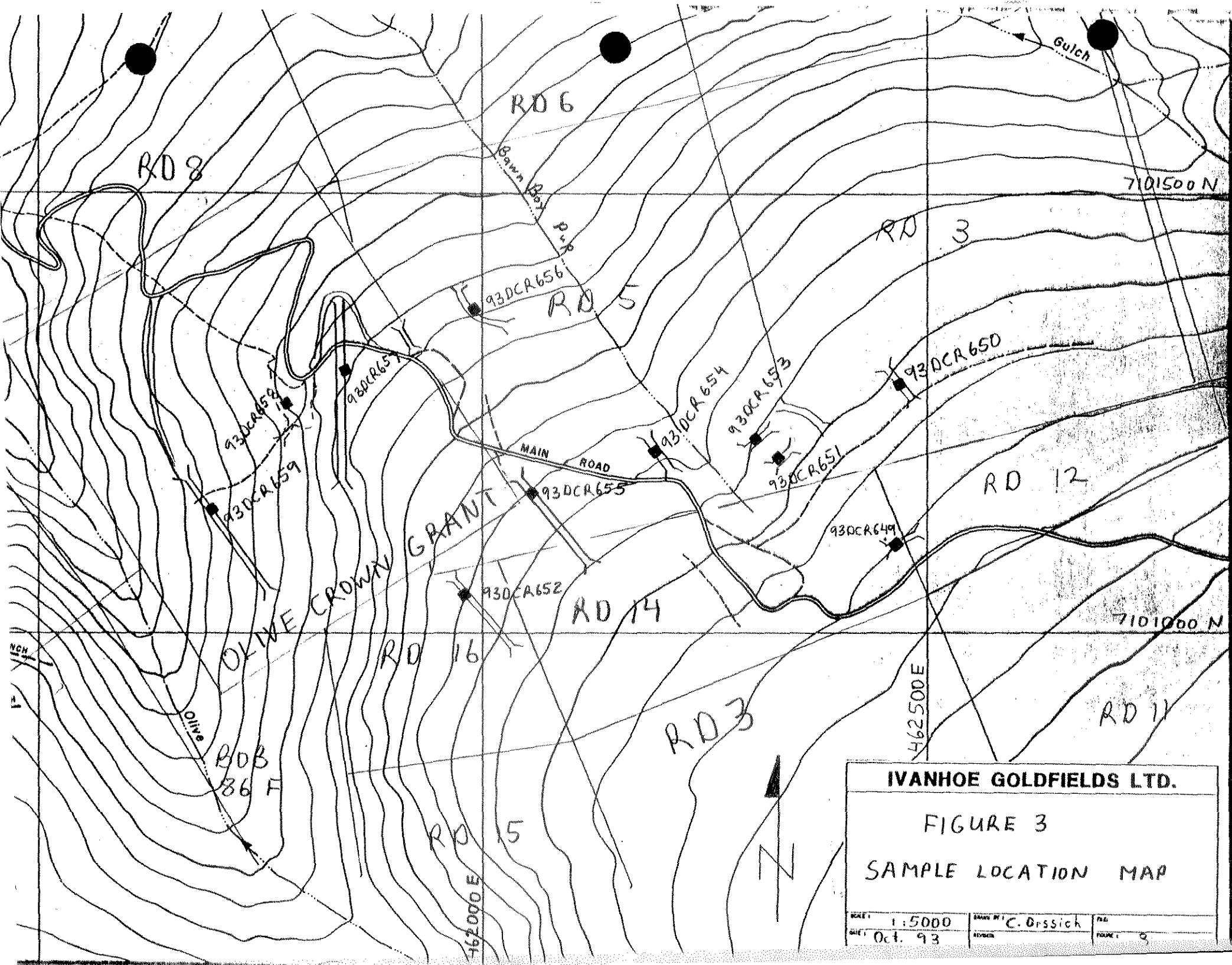
DUBLIN GULCH PROPERTY  
MAYO DISTRICT, YUKON TERRITORY

CLAIM MAP



DATE:	October, 1993	SCALE:	1: 50,000	FIGURE NO.	2
DRAWN BY:		N.T.S.			
		105MI3/106D4			





**IVANHOE GOLDFIELDS LTD.**

**FIGURE 3**

**SAMPLE LOCATION MAP**

SCALE: 1:5000	DRAWN BY: C. Orsich	DATE: Oct. 93	FIGURE: 3
---------------	---------------------	---------------	-----------

**APPENDIX I**

**ASSAY RESULTS**



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221

IVANHOE GOLDFIELDS LTD.

1900 - 355 BARRARD ST.  
 VANCOUVER, BC  
 V6C 2G8

Page Number : 1  
 Total Pages : 3  
 Certificate Date: 22-SEP-93  
 Invoice No. : 19321191  
 P.O. Number :  
 Account : KXX

Project : DUBLIN GULCH  
 Comments: ATTN: DAVE FLEMING

\*\* Corrected Copy

## CERTIFICATE OF ANALYSIS A9321191

SAMPLE	PREP CODE	Au ppb FA+AA	W ppm	Au FA g/t							
93DBR-750											
93DBR-751											
93DCR-538											
93DCR-539											
93DCR-540											
93DCR-541											
93DCR-542											
93DCR-543											
93DCR-544											
93DCR-545											
93DCR-546											
93DCR-547											
93DCR-548											
93DCR-549											
93DCR-640											
93DCR-641											
93DCR-642											
93DCR-643											
93DCR-644											
93DCR-645											
93DCR-646											
93DCR-647											
93DCR-648	205 274	10	150	-----							
93DCR-649	205 274	25	100	-----							
93DCR-650	205 274	180	45	-----							
93DCR-651	205 274	35	260	-----							
93DCR-652	205 274	265	70	-----							
93DCR-653	205 274	55	70	-----							
93DCR-654	205 274	15	70	-----							
93DCR-655	205 274	< 5	45	-----							
93DCR-656	205 274	165	70	-----							
93DCR-657	205 274	2040	20	-----							
93DCR-658	205 274	165	24	-----							
93DCR-659	205 274	25	120	-----							
93DFR-394											
93DFR-395											
93DFR-396											
93DFR-397											
93DFR-398											
93DFR-399											

(plus 1/2" fraction)

Secret Area  
 Active Area  
 Active Area  
 Active Area  
 Active Area

CERTIFICATION: Hart Bickler

\*\* Last 2 samples descriptions edited as per client request



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221

Client: IVANHOE GOLDFIELDS LTD.

1900 - 355 BARRARD ST.  
VANCOUVER, BC  
V6C 2G8

Project: DUBLIN GULCH  
Comments: ATTN: DAVE FLEMING

Page Number : 1  
Total Pages : 1  
Certificate Date: 22-SEP-93  
Invoice No. : 19321192  
P.O. Number :  
Account : KXX

## CERTIFICATE OF ANALYSIS

### A9321192

Concentrates SAMPLE	PREP CODE	Au ppb FA+AA	W ppm	Au FA g/t							
93DCR-649C	235 --	1260	>1000	-----							
93DCR-650C	235 --	120	>1000	-----							
93DCR-651C	235 --	4530	>1000	-----							
93DCR-652C	235 --	9150	>1000	-----							
93DCR-653C	235 --	20	>1000	-----							
93DCR-654C	235 --	320	>1000	-----							
93DCR-655C	235 --	60	525	-----							
93DCR-656C	235 --	575	>1000	-----							
93DCR-657C	235 --	9360	>1000	-----							
93DCR-658C	235 --	>10000	>1000	20.8							
93DCR-659C	235 --	2340	>1000	-----							

CERTIFICATION:

*Hart Bickler*



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221

IVANHOE GOLDFIELDS LTD.

1900 - 355 BARRARD ST.  
VANCOUVER, BC  
V6C 2G8

Project : DUBLIN GULCH  
Comments: ATTN: DAVE NEWTON

Page Number : 1  
Total Pages : 1  
Certificate Date: 11-OCT-93  
Invoice No. : 19322264  
P.O. Number :  
Account : KXX

## CERTIFICATE OF ANALYSIS

A9322264

Concentrates SAMPLE	PREP CODE	WO3 %	Weight grams									
93DCR-649C	244 --	1.08	108									
93DCR-650C	244 --	0.96	88									
93DCR-651C	244 --	1.92	143									
93DCR-652C	244 --	1.02	189									
93DCR-653C	244 --	2.08	155									
93DCR-654C	244 --	1.04	176									
93DCR-655C	244 --	0.16	205									
93DCR-656C	244 --	0.64	177									
93DCR-657C	244 --	0.33	186									
93DCR-658C	244 --	0.38	209									
93DCR-659C	244 --	0.27	161									

CERTIFICATION: Said Zernale

**APPENDIX II**

**STATEMENT OF COSTS**

APPENDIX II

STATEMENT OF COSTS

Analysis	Chemex Invoice No.s I932192, I9321191	\$489.78
Wages	2 mandays @ \$200/manday	<u>400.00</u>
TOTAL		<u>\$889.78</u>

OCT 14, 1993 2:01PM #802 P.02

604 688 8370

TO:

FROM: IVANHOE CAPITAL CORP



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221

To: IVANHOE GOLDFIELDS LTD.

1900 - 355 BURREARD ST.  
VANCOUVER, BC  
V6C 2G8

INVOICE NUMBER

19321192

### BILLING INFORMATION

Date: 22-SEP-93  
Project: DUBLIN GULCH  
P.O. No.:  
Account: KXX

Comments:

Billing: For analysis performed on  
Certificate A9321192

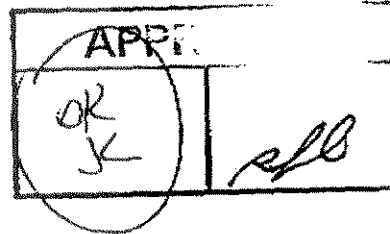
Terms: Payment due on receipt of invoice  
1.25% per month (15% per annum)  
charged on overdue accounts

Please Remit Payments to:

**CHEMEX LABS LTD.**  
212 Brooksbank Ave.,  
North Vancouver, B.C.  
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
10	235 - Pan con ring to approx 150 mesh	5.30		
	100 - Au ppb FA+AA	7.95		
	18 - W ppm	5.00	18.25	182.50
1	235 - Pan con ring to approx 150 mesh	5.30		
	100 - Au ppb FA+AA	7.95		
	18 - W ppm	5.00		
	397 - Au FA g/t	10.00	28.25	28.25

Total Cost \$	210.75
Client Discount \$	-73.76
Net Cost \$	136.99
(Reg# R100938885 ) GST \$	9.59
<b>TOTAL PAYABLE (CDN) \$</b>	<b>146.58</b>



RECEIVED SEP 21 1993



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221

IVANHOE GOLDFIELDS LTD.

1900 - 355 BURRARD ST.  
VANCOUVER, BC  
V6C 2G8

INVOICE NUMBER

I 9 3 2 1 1 9 1

### BILLING INFORMATION

Date: 23-SEP-93  
Project: DUBLIN GULCH  
P.O. No.:  
Account: KXX

Comments:

Billing: For analysis performed on  
Certificate A9321191

Terms: Payment due on receipt of invoice  
1.25% per month (15% per annum)  
charged on overdue accounts

Please Remit Payments to:

**CHEMEX LABS LTD.**  
212 Brooksbank Ave.,  
North Vancouver, B.C.  
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
71	205 - Geochem ring to approx 150 mesh	2.10		
	274 - 0-15 lb crush and split	3.05		
	100 - Au ppb FA+AA	7.95	13.10	930.10
5	214 - Rcvd as pulp; mesh size checked	0.30		
	100 - Au ppb FA+AA	7.95	8.25	41.25
20	205 - Geochem ring to approx 150 mesh	2.10		
	274 - 0-15 lb crush and split	3.05		
	100 - Au ppb FA+AA	7.95		
	18 - W ppm	5.00	18.10	362.00
2	205 - Geochem ring to approx 150 mesh	2.10		
	274 - 0-15 lb crush and split	3.05		
	100 - Au ppb FA+AA	7.95		
	397 - Au FA g/t	10.00	23.10	46.20

Total Cost \$	1379.55
Client Discount \$	<u>-482.84</u>
Net Cost \$	896.71
(Reg# R100938885 ) GST \$	<u>62.77</u>
<b>TOTAL PAYABLE (CDN) \$</b>	<b>959.48</b>

# COPY

# COPY

930CR49-59 \$ 144.10  
 ( 11 samples ) \$ 199.10  
 \$ 343.20

## APPENDIX III

### STATEMENT OF QUALIFICATIONS

### Statement of Qualifications

I, Cyrill N. Orssich of Ivanhoe Goldfields Ltd. do hereby certify that:

- (1) I am a graduate of Carleton University, Colonel By Drive, Ottawa Ontario with an Honours Bachelor of Science degree majoring in Geology, 1981.
- (2) I have practiced my profession as a Geologist from 1981 to 1988 and 1991 to present.
- (3) I have no interest, direct or indirect, in the Dublin Gulch property or shares in the companies involved.
- (4) That the information contained in this report is both true and correct to the best of my knowledge.

Cyrill N. Orssich, B. Sc., P. Geo.  
October 1993



*Cyrill N. Orssich*

## STATEMENT OF QUALIFICATIONS

### Anthony Hitchins

#### Education

1970 B.A. Sc. in Engineering Geology from University of Toronto.

1973 M. Sc. in Exploration Geology from University of Toronto.

#### Work Experience

1970-1976 Temporary geologist with Amax Explorations, exploration in Ontario, Nova Scotia and Yukon.

1976-1983 Staff geologist Amax Exploration, Yukon and northern B.C.

1984-1993 Staff geologist to project manager for Canamax Resources and Amax Gold. Yukon, N.W.T. and northern B.C.

MINFILE: 106D 028  
PAGE NO: 1 of 1  
UPDATED: 06/23/94

**YUKON MINFILE  
STANDARD REPORT  
EXPLORATION AND GEOLOGICAL SERVICES DIVISION, DIAND  
WHITEHORSE**

NAME(S): Ellis  
MINFILE #: 106D 028  
MAJOR COMMODITIES: Au  
MINOR COMMODITIES: -  
TECTONIC ELEMENT: McQuesten Plutonic Suite  
NTS MAP SHEET: 106 D 4  
LATITUDE: 64°03'00"N  
LONGITUDE: 135°43'22"W  
DEPOSIT TYPE: Vein  
STATUS: Showing

---

**CLAIMS (PREVIOUS AND CURRENT)**

PAT, JEFF, BOB

**WORK HISTORY**

Staked as Pat, etc cl (81113) in May/62 by Cross Bow ML and sold to Mayo Silver ML, which explored with bulldozer trenching, mapping and geochem sampling in 1963 and 1964.

Restaked as Jeff cl (YA17826) in Apr/78 by a joint venture between Canada Tungsten Mg Corp L and Queenstake Res L. Canada Tungsten transferred the claims to Queenstake in Aug/86, which optioned them to Can Pro Dev Inc in 1988. Can Pro staked fractional claims in Nov/89 and optioned its claims to Ivanhoe Goldfields Ltd in 1992. The Jeff and Bob cl were transferred to Ivanhoe Goldfields Ltd in Mar/93. In Sept/93, Ivanhoe goldfields dug several test pits in decomposed bedrock on the R & D claims and the Olive crown grant. Samples were then screened, gravity concentrated and assayed.

**GEOLOGY**

A quartz vein 0.5 m wide follows a granitic dyke along a shear zone and contains scattered arsenopyrite. Nine samples assayed from 0.34 to 48.7 g/t Au.

**REFERENCES**

GEOLOGICAL SURVEY OF CANADA Paper 63-38, p. 15.

GEORGE CROSS NEWSLETTER, 30 Dec/92.

IVANHOE GOLDFIELDS LTD., Sept/93. Assessment Report #093140 by C.N. Orssich.

MAYO SILVER MINES LTD, Jan/64. Prospectus Report by L.G. White.

YUKON GEOLOGY AND EXPLORATION 1979-80, p. 238 to 240.

YUKON EXPLORATION AND GEOLOGY 1992, p. 2, 4, 5.

**YUKON MINFILE  
STANDARD REPORT  
EXPLORATION AND GEOLOGICAL SERVICES DIVISION, DIAND  
WHITEHORSE**

NAME(S): Potato Hills (Pan)                      NTS MAP SHEET: 106 D 4  
MINFILE #: 106D 026                              LATITUDE: 64°02'26"N  
MAJOR COMMODITIES: W                              LONGITUDE: 135°45'08"W  
MINOR COMMODITIES: Au                              DEPOSIT TYPE: Porphyry  
TECTONIC ELEMENT: McQuesten Plutonic Suite      STATUS: Drilled prospect

---

**CLAIMS (PREVIOUS AND CURRENT)**

TUNGSTEN KING, PAN, ARPA, R & D, MAR

**WORK HISTORY**

Placer scheelite was noted in Dublin Creek in 1904 by the GSC. Staked as Tungsten King, etc cl (12723) in Sep/18 by W. Steinberg and restaked about 1941 by A.J. Kinsey and R. Fisher and optioned to Treadwell Yukon CL. Claims owned by Mayo Silver ML covered this occurrence in 1961-64 but the tungsten potential was not investigated.

The first interest in the bulk tonnage tungsten potential commenced in Sep/68 when the Pan & Arpa cl (Y27203) were staked by C. Provencher. The property was optioned in 1968 by Great Plains Dev C of Can L, which conducted bulldozer trenching; Tam ML in 1969; and Connaught ML from 1969 to late 1971. The Connaught option was assigned in 1970 and 1971 to Canex EL, which carried out an extensive soil geochemical survey in 1970, and bulldozer trenched and drilled three holes (457.2 m) in 1971. The claims reverted early in 1972 to Provencher, who transferred them to a private company, Scheelite Hills Mls L.

The west end was restaked as R & D cl (YA1393) in Oct/75 by R. Holway & D. Duensing, who trenched in 1976 and transferred the claims to Dublin Gulch Mg L. The remainder was restaked as MAR cl(YA14897) in Mar/77 by Queenstake Res L, which performed mapping and bulldozer trenching later in the year. In 1978, Canada Tungsten Mg Corp L entered a joint venture with Queenstake, optioned the R & D group, enlarged the property and conducted extensive mapping and sampling in 1978 and 1979. Cantung dropped its interest in 1986. The R & D and Mar cl were transferred to Ivanhoe Goldfields Ltd. in Mar/93. In Sept/93, Ivanhoe goldfields dug several test pits in decomposed bedrock on the R & D claims and the Olive crown grant. Samples were then screened, gravity concentrated and assayed.

**GEOLOGY**

Scheelite occurs with feldspar, muscovite, pyrite and small amounts of arsenopyrite in a quartz stockwork and disseminated near the veins, which cut granite of the Potato Hills stock. Alteration is weak and consists of narrow argillic envelopes around the veins. The mineralized area is approximately 180 m long and 760 m wide and was well outlined by a soil survey. Copper and molybdenum are present in trace amounts.

Quartz veins in the stock grade up to 10.1% WO<sub>3</sub> and adjacent wallrock assays up to 1.8% WO<sub>3</sub> for up to 1 m from the vein. In the metasedimentary rocks, veins range up to 10 cm in width and assay up to 1.3% WO<sub>3</sub> with wallrock specimens grading as high as 3.4% WO<sub>3</sub>. A pegmatite vein consisting of quartz and white mica assayed 6.4% WO<sub>3</sub> across 25 cm. Average grades across large intervals are very low, about 0.05% WO<sub>3</sub>.

## REFERENCES

- CATHRO, R.J., Apr/69. Tungsten in Yukon. Western Miner, p. 32-34.
- GEOLOGICAL SURVEY OF CANADA Summary Report 1904, Part A, p. 18-42.
- GEOLOGICAL SURVEY OF CANADA Summary Report 1918, Part B, p. 10-15.
- GEOLOGICAL SURVEY OF CANADA Memoir 234, p. 31-32.
- IVANHOE GOLDFIELDS LTD., Sept/93. Assessment Report #093140 by C.N. Orssich.
- LITTLE, H.W., 1959. Tungsten Deposits of Canada. Geological Survey of Canada Economic Geology Series No. 17, p. 21-29, 34-36.
- MINERAL INDUSTRY REPORT 1971-72, p. 24-25; 1978, p. 14-15.
- YUKON EXPLORATION 1985-86, p. 293-294.
- YUKON GEOLOGY AND EXPLORATION 1979-80, p. 238 to 240.

*needs approval*

MINFILE: 106D 027  
PAGE NO: 1 of 2  
UPDATED: 06/24/94

**YUKON MINFILE  
STANDARD REPORT  
EXPLORATION AND GEOLOGICAL SERVICES DIVISION, DIAND  
WHITEHORSE**

NAME(S): Garnet (Ray Gulch)                      NTS MAP SHEET: 106 D 4  
MINFILE #: 106D 027                                LATITUDE: 64°01'41"N  
MAJOR COMMODITIES: W                              LONGITUDE: 135°44'57"W  
MINOR COMMODITIES: Au,Ag                        DEPOSIT TYPE: Skarn, vein  
TECTONIC ELEMENT: McQuesten Plutonic Suite    STATUS: Deposit

**CLAIMS (PREVIOUS AND CURRENT)**

TIP TOP, BATTY, PAN, ARPA, MAR, R & D, DG, JEFF, BOB, SMOKEY.

**WORK HISTORY**

Staked as Tip Top cl (55220) in Oct/42 by Harvey Ray, examined by Ventures L in 1942, and investigated by the GSC in 1942-44. Restaked in Aug/51 by R.A. Batty & E. Barker as Batty cl (61878), which were prospected and sampled in 1956 by Stride E & Dev CL. Mayo Silver ML staked claims on the east side of the gulch about 1960 and bulldozer trenched in 1963 or 1964. Restaked as Pan & Arpa cl (Y27203) in Sep/68 by C. Provencher as part of the adjoining Potato Hills property but not explored by the various optionees: Great Plains in 1968, Tam ML in 1969, Connaught ML and Canex Placer in 1969-71. Restaked as MAR cl (YA14897) in Mar/77 by Queenstake Res L, which conducted mapping and bulldozer trenching later in the year.

In 1978, Canada Tungsten Mg Corp L entered a joint venture with Queenstake, optioned the adjoining R & D group from Dublin Gulch Mg L and explored with extensive geochem and geophysical surveys in 1978, 1979 and 1981, trenching in 1981, 21 holes (2423 m) in 1979, 64 holes (11,278 m) in 1980, and 3 holes (751 m) plus additional mapping, geochem and VLF-EM surveys and trenching in 1982. Cantung dropped its option in 1986.

Optioned in Sep/91 by Amax Gold Inc., which explored with mapping, geochemistry, geophysics and 16 diamond drillholes totalling 2500 m. In 1992, Queenstake performed 1129.9 m of reverse circulation drilling on the R & D 2 and 16, Bob 1, Smoky 64, 65, 74 and 76 claims.

Ivanhoe Goldfields Ltd optioned the property in late 1992. The DG, Jeff, Bob, R & D, Mar, and several Smokey cl were transferred from Can Pro Development Ltd to Ivanhoe Goldfields Ltd in Mar/93. Ivanhoe Goldfields Ltd. performed reverse circulation drilling on the Smokey 3 and 4 cl and 96 Fr., and dug several test pits in decomposed bedrock on the R & D claims and the Olive crown grant in Sept/93. Samples were then screened, gravity concentrated and assayed. Ivanhoe also performed a soil survey on the West, Sec and DG claims in Sept/93.

**GEOLOGY**

Ray found large blocks of pale green, coarsely crystalline tremolite skarn float containing 2.7% to 3.3% scheelite. In 1943, the GSC located an outcropping zone 25 m thick in Late Proterozoic Hyland Group quartz-biotite schist, from which grab samples assayed 0.27% to 0.5% WO3. Mayo Silver ML traced arsenopyrite-quartz float to a narrow vein conformable with bedding, which assayed 69.3 g/t Au and 125.1 g/t Ag across 0.8 m.

The skarn showing was further explored in 1978 and found to average 12 m and reach 25 m in thickness. The skarn is composed of diopside, amphibole, epidote, minor magnetite and no sulphides. This zone, called the Garnet Zone, dips gently northwest towards the Potato Hills Stock. The 1979-80 drilling tested an area 1000 m long and 700 m wide and disclosed the presence of a buried tungsten deposit containing 7.26 million tonnes of 0.87% WO3. Eight separate mineralized horizons are present, of which the lower four contain a higher grade zone of 3.6 million tonnes grading 0.93% WO3. At least three of the mineralized horizons outcrop under shallow overburden but none appear in the Ray Gulch canyon.

The 1982 holes cut weak mineralization stratigraphically below the deposit. The best intersection (Hole 82-1) assayed 0.18% WO3 and 0.34 g/t Au over 0.8 m, as well as a 1.7 m section that ran 0.14% WO3.

The 1993 soil geochemistry outlined several anomalous areas, including two coincident Au, Sn, Pb, Zn, Sb, Bi anomalies overlying granodiorite intrusions and adjacent zones of fractured, limonitic quartzite.

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