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ASSESSMENT REPORT

ON GEOLOGICAL, GEOCHEMICAL AND TRENCHING PROGRAMS

ON THE

TANTALUS RESOURCES LTD.

TREATY CREEK PROJECT

ESKAY-SULPHURETS AREA
SKEENA MINING DIVISION
BRITISH COLUMBIA

Latitude 56°35'N
Longitude 130°07'W

SUB-RECORDER
RECEIVED
DEC 29 1992
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VANCOUVER, B.C.

A. Walus, M.Sc.
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December 11, 1992

GEOLOGICAL BRANCH
ASSESSMENT REPORT

22,713

SUMMARY

The Treaty Creek Project is located 80 km north of Stewart, B.C. and consists of 26 claims totalling 310 units within the Skeena Mining Division. Work was carried out between August 10 and September 12, 1992 under the direction of Prime Explorations - a division of Prime Equities International Corporation.

Exploration work on the Treaty Creek Project in 1992 concentrated on areas underlain by the Mount Dilworth Formation and on evaluating the large Treaty Gossan Nunatak. Work was conducted in five main areas: 1) Treaty Gossan; 2) East Treaty Dilworth; 3) TR Claims; 4) VR-5 Claim; and 5) Orpiment Zone. The 1992 work consisted of an extensive rock sampling program consisting of chip sampling over surface exposures and hand and dynamite-assisted trenching, and subsequent chip sampling over outcrops of interest or areas covered by overburden and subsequently exposed by trenching. Chip sample lengths were generally 1-2 metres with a total of 1159 rock samples collected.

Several areas of interest were discovered, the most significant is considered to be the Orpiment Zone. This is a large zone of silica-alunite-pyrite altered rock on the north side of Treaty Glacier which has been traced along strike for approximately 500 m with a maximum exposed width of 180 metres. It is believed to represent the upper portion of an epithermal system and is adjacent to a rhyolite/ dacite plug which may indicate the zones proximity to a volcanic centre. Potentially significant anomalous gold results (0.030 oz/ton over 3.0 m and 370 ppb over 6.0 m) were obtained from this zone.

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INTRODUCTION

This report is prepared for Tantalus Resources Ltd. on their Treaty Creek Project. It outlines the 1992 exploration work and presents the results of that program. The information contained herein is derived from supervision and execution of the field program, the references cited, and familiarity with the Iskut-Eskay-Sulphurets area gained from work experience in those areas from 1987 to 1992.

The purpose of this year's program was to investigate areas underlain by the contact zone of rocks interpreted to be Mount Dilworth and Salmon River Formations. It is the contact zone of these formations that hosts the Eskay Creek Deposits to the west. Also, the large alteration zone on the Treaty Gossan Nunatak was systematically sampled to evaluate its economic potential. The 1992 work program on the Treaty Creek Project consisted of extensive rock chip sampling and trenching in areas of the property that had not previously been explored in such detail. In particular, the work was conducted in five main areas: 1) Treaty Gossan; 2) East Treaty Dilworth; 3) TR Claims; 4) VR-5 Claim; and 5) Orpiment Zone. The work program commenced August 10 and was completed September 12, 1992. The onset of winter weather conditions limited the work toward the end of the program.

LOCATION AND ACCESS

The Treaty Creek Project is located about 80 km north-northwest of Stewart, British Columbia in the Skeena Mining Division on NTS map 104B/9. It is centred at approximately 56°35'N latitude and 130°07'W longitude (Figure 1).

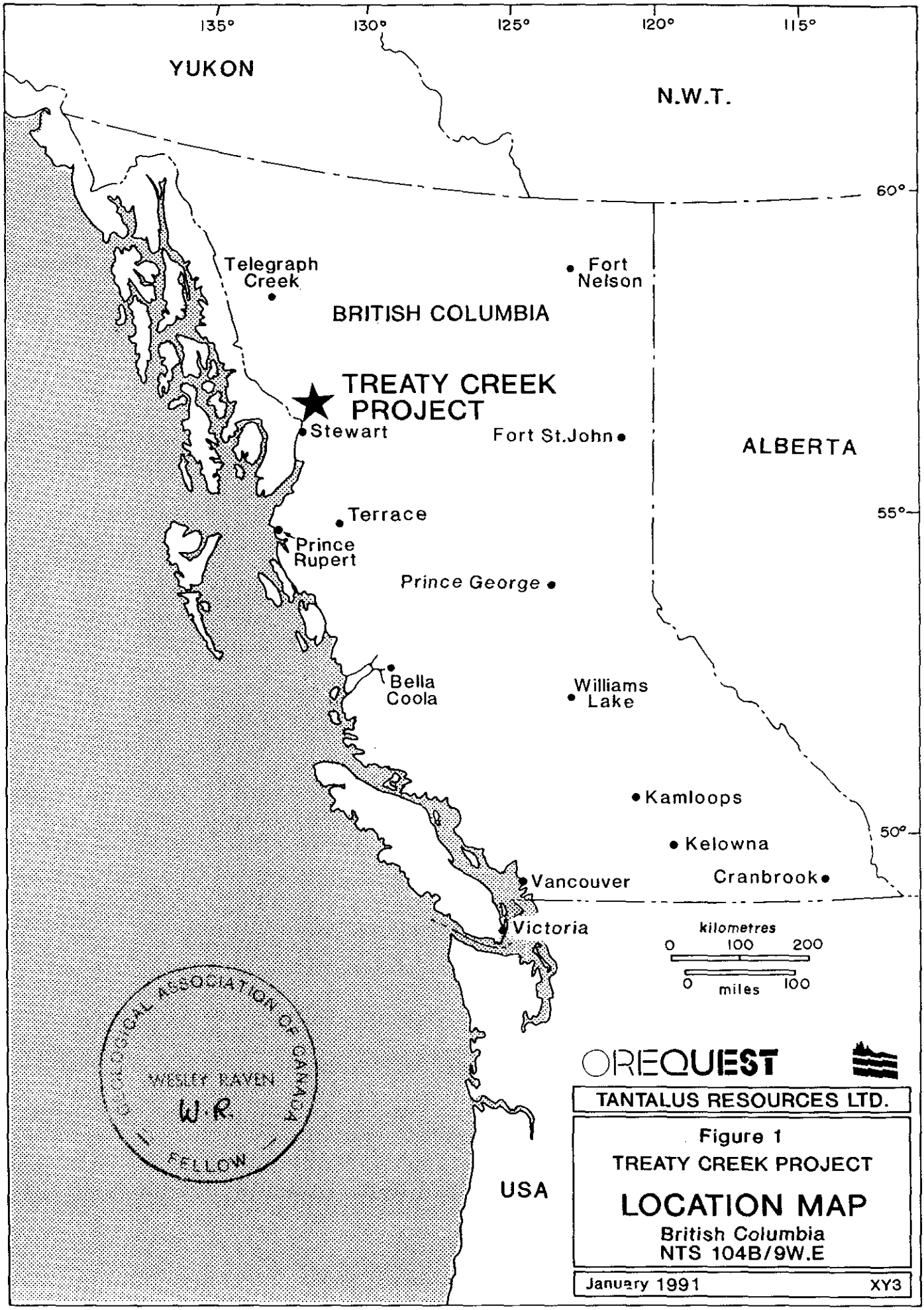
Access to the property is by helicopter from the base at Bob Quinn Lake approximately 45 km to the north or from the Bell II staging area on the Stewart-Cassiar Highway, Highway 37, about 25 km to the northeast. Exploration work was conducted from a base camp on the Treaty Gossan Nunatak.

PHYSIOGRAPHY AND VEGETATION

Elevations on the Treaty Creek Project range from 950 m in the Treaty Creek valley on the east side of the property to over 2,200 m on the peaks to the west, east and south. Slopes range from moderate to very precipitous.

Low lying regions are vegetated by mature mountain hemlock and balsam. This changes to subalpine and alpine vegetation consisting of stunted shrubs and grasses. The claims cover the large icefield at the head of Treaty, South Treaty and Atkins Glaciers.

Climate in the area can be severe, particularly at the higher elevations. Heavy snowfalls in winter and rain and fog in the short summer field season are typical of the Iskut-Sulphurets area.

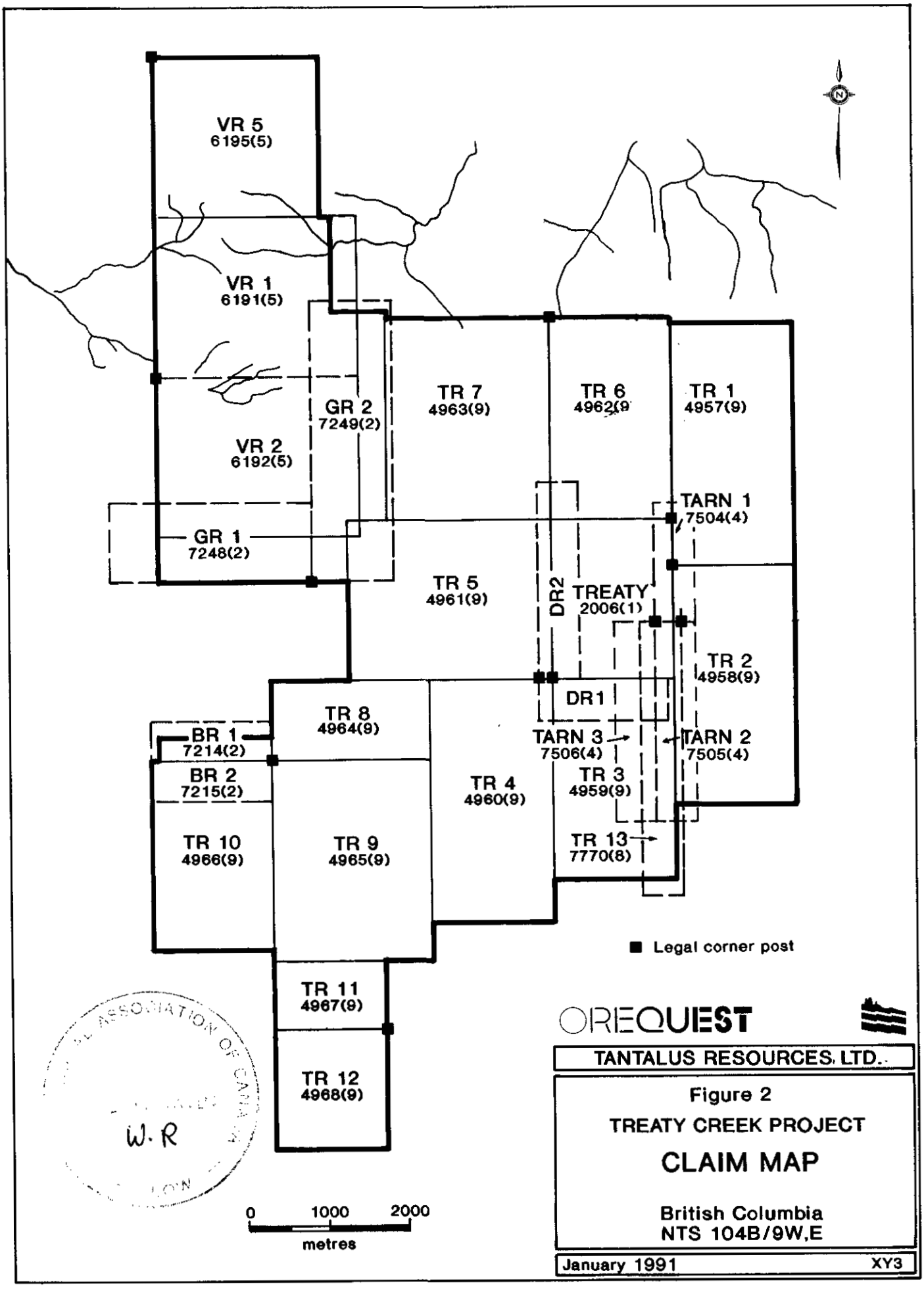

135°
130°
125°
120°
115°
YUKON
N.W.T.
60°
Telegraph Creek
Fort Nelson
BRITISH COLUMBIA
TREATY CREEK PROJECT
Stewart
Fort St.John
ALBERTA
Terrace
55°
Prince Rupert
Prince George
Bella Coola
Williams Lake
Kamloops
Kelowna
50°
Vancouver
Cranbrook
Victoria
kilometres
0 100 200
0 miles 100
GEOLOGICAL ASSOCIATION OF CANADA
WESLEY RAVEN
W.R.
FELLOW
USA
OREQUEST
TANTALUS RESOURCES LTD.
Figure 1
TREATY CREEK PROJECT
LOCATION MAP
British Columbia
NTS 104B/9W.E
January 1991
XY3

CLAIM STATUS

The Treaty Creek property consists of 26 modified grid claims, totalling 310 units (Figure 2). Pertinent claim information is listed in Table 1, and includes the application of assessment credits earned during the recently completed work program.

TABLE I - CLAIM INFORMATION

Claim Name	No. of Units	Record No.	Date of Record	Expiry Date
Treaty	12	2006	Jan. 9, 1980	Jan. 9/95
TR 1	18	4957	Sept. 30, 1985	Sept. 30/95
TR 2	18	4958	Sept. 30, 1985	Sept. 30/95
TR 3	15	4959	Sept. 30, 1985	Sept. 30/95
TR 4	18	4960	Sept. 30, 1985	Sept. 30/95
TR 5	20	4961	Sept. 30, 1985	Sept. 30/95
TR 6	15	4962	Sept. 30, 1985	Sept. 30/95
TR 7	20	4963	Sept. 30, 1985	Sept. 30/95
TR 8	8	4964	Sept. 30, 1985	Sept. 30/95
TR 9	20	4965	Sept. 30, 1985	Sept. 30/95
TR 10	15	4966	Sept. 30, 1985	Sept. 30/95
TR 11	6	4967	Sept. 30, 1985	Sept. 30/95
TR 12	9	4968	Sept. 30, 1985	Sept. 30/95
TR 13	8	7770	Aug. 6, 1989	Aug. 6/95
GR1	10	7248	Feb. 10, 1989	Feb. 10/95
GR2	14	7249	Feb. 10, 1989	Feb. 10/95
BR1	3	7214	Feb. 10, 1989	Feb. 10/95
BR2	3	7215	Feb. 10, 1989	Feb. 10/95
DR 1	4	7220	Feb. 10, 1989	Feb. 10/95
DR 2	5	7221	Feb. 10, 1989	Feb. 10/95
VR1	20	6191	May 25, 1987	May 25/95
VR2	20	6192	May 25, 1987	May 25/95
VR5	16	6195	May 25, 1987	May 25/95
Tarn 1	3	7504	April 7, 1989	April 7/95
Tarn 2	5	7505	April 7, 1989	April 7/95
Tarn 3	5	7506	April 7, 1989	April 7/95
	310			


VR 5
6195(5)
VR 1
6191(5)
VR 2
6192(5)
GR 2
7249(2)
GR 1
7248(2)
TR 7
4963(9)
TR 6
4962(9)
TR 1
4957(9)
TARN 1
7504(4)
TR 5
4961(9)
DR2
TREATY
2006(1)
TR 2
4958(9)
DR1
TR 8
4964(9)
BR 1
7214(2)
BR 2
7215(2)
TARN 3
7506(4)
TARN 2
7505(4)
TR 3
4959(9)
TR 4
4960(9)
TR 10
4966(9)
TR 9
4965(9)
TR 13
7770(8)
Legal corner post
TR 11
4967(9)
TR 12
4968(9)
0
1000
2000
metres
OREQUEST
TANTALUS RESOURCES LTD.
Figure 2
TREATY CREEK PROJECT
CLAIM MAP
British Columbia
NTS 104B/9W,E
January 1991
XY3

PROPERTY AND GENERAL AREA HISTORY

The following is a chronological summary of the work completed on the present day Treaty Creek Project as compiled from available reports.

1929-1930 Prospectors Williams and Knipple were reported to have discovered gold and arsenic mineralization from two unknown locations in the area now covered by the TR claims. Consolidated Mining and Smelting Co. visited the 57 claim property, took samples but terminated their option on the claims.

1950's Several prospecting syndicates explored the Treaty Creek area.

1953 Prospectors Williams and Knipple found a small silver bearing sulphide vein. In addition, several large float boulders containing tetrahedrite were found in the Treaty glacier; no source was located.

1966-1967 In an attempt to promote interest in the Portland Canal-Iskut area of B.C., the government Department of Mines carried out a regional mapping program. The government geologists reported discontinuous lead zinc veins on the property. A magnetic anomaly was also discovered at the junction of the Treaty Creek and South Treaty glaciers.

1967-1980 The area was staked several times but the claims were allowed to lapse with no recorded work.

1980-1981 E & B Explorations optioned the claims from E. Kruchkowski and carried out a regional prospecting and geological mapping program. No significant mineral occurrences were discovered.

1984 Teuton Resources Corp. acquired the claims and carried out a small program of prospecting and stream sediment sampling. One sample of a sulphide mineralized boulder returned 5,800 ppb Au. A silt sample taken at the junction of the Treaty Creek and South Treaty Glaciers contained 510 ppb Au.

1985 Further mapping, prospecting and a heavy mineral stream sediment survey was carried out by Teuton Resources. One heavy metal silt sample from the western portion of the property returned a value of 4200 ppb Au. Native sulphur mineralization was discovered in a pyritic alteration zone on the Treaty Gossan Nunatak.

1986 Teuton carried out further rock geochemistry sampling which returned values as high as 925 and 990 ppb Au from the area southeast of the 1985 anomalous stream sample.

1987 Teuton continued exploration with more rock and silt sampling. Rock samples as high as 28.0 oz/t gold over 1.2 m on the relatively smaller nunatak west of Treaty Gossan Nunatak initiated a more detailed rock sampling, hand trenching and 184.5 m drill program. Inclement weather limited the effectiveness of the detailed work and the program was shut down.

1988 Teuton followed up the successful 1987 program with blasting, trenching and sampling of the known mineralized zones. A grid was placed over the main area of interest over which a magnetometer survey and geological mapping program were conducted. Several reconnaissance rock and soil lines were put in to test areas southwest, northeast and east of the main area of interest.

1989 OreQuest Consultants Ltd. carried out field surveys on the Treaty Creek Project on behalf of Tantalus Resources Ltd. Reconnaissance mapping, prospecting, soil, stream sediment, and rock sampling was conducted on the Treaty Gossan area. Detailed trenching, chip sampling, VLF-EM and magnetic surveys and diamond drilling were completed on the Konkin Zone and rappel traverses over the Goat Trail and Southwest Zones on the above mentioned smaller nunatak to the west of the Treaty Gossan Nunatak. A Phase II program was implemented in late September on the Konkin and Goat Trail Zones. The drill program was shut down prior to completion due to severe winter conditions.

1990 Tantalus continued detailed work on the Treaty Creek Project focusing on two areas: the Treaty Gossan and the newly discovered GR-2 Showings. The latter consist of sulphide veins occurring north of the Konkin, Goat Trail and Southwest Zones's nunatak. Work on the GR-2 showings consisted of grid establishment, detailed geological mapping, prospecting, trenching and chip sampling. The Treaty Gossan area also received a detailed work program including grid establishment, geological mapping, prospecting, rock and soil sampling and magnetometer and VLF-EM surveys. Onset of winter precluded the completion of mapping of the Treaty Gossan area.

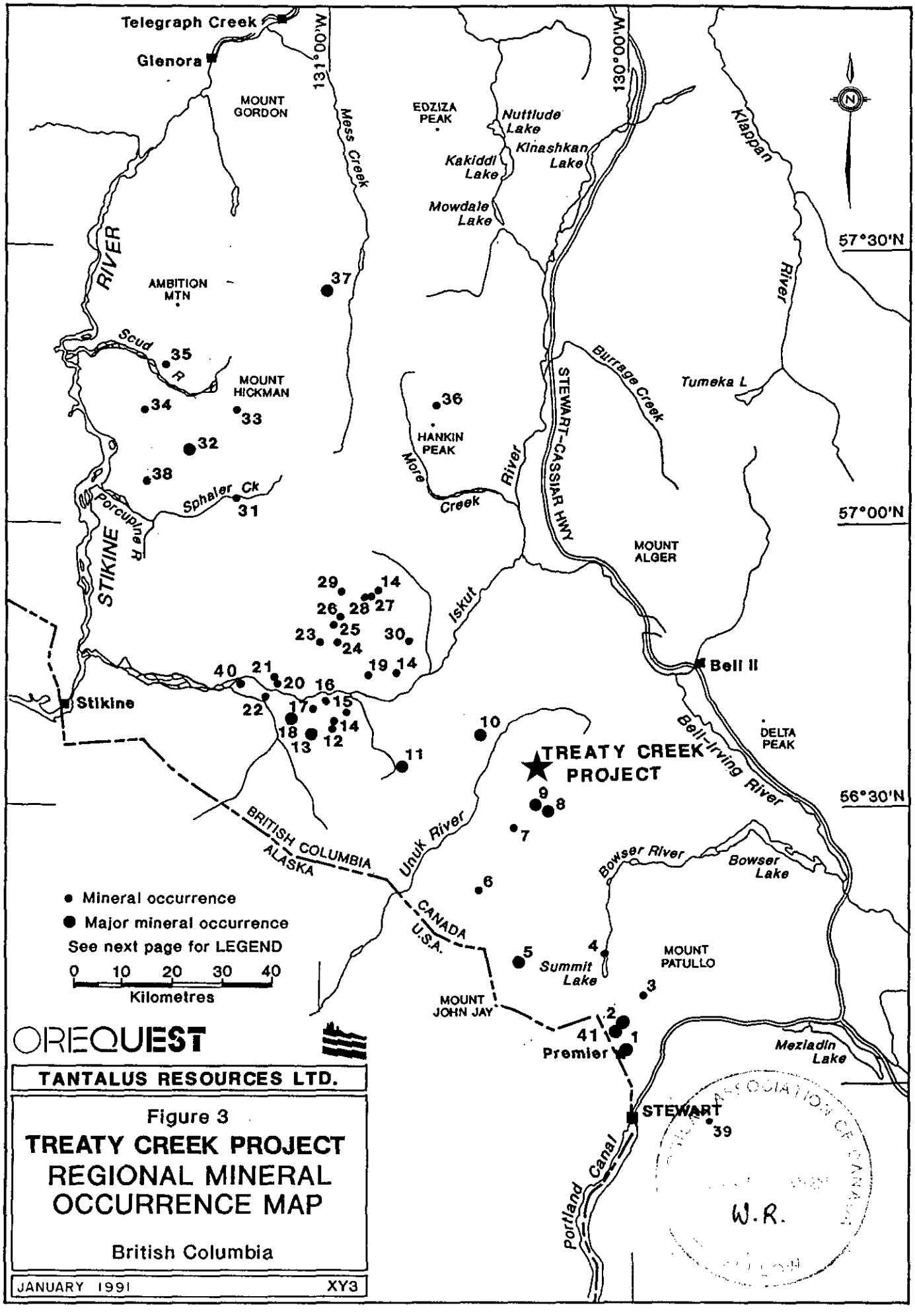
1991 Tantalus performed detailed follow-up work on GR-2 Showings and the newly discovered AW Zone. Work on the GR-2 showings consisted of re-establishing the 1990 grid, continued detailed geological mapping, hand trenching, geophysics (VLF-EM survey) and diamond drilling. The AW Zone was a new discovery that year with high grade gold,

silver, copper lead and zinc values. The zone was chip sampled with limited hand trenching and more detailed mapping was also completed. A diamond drilling program totalling 141.46 m in five holes was completed on the zone. The fifth hole was abandoned prior to reaching the target depth due to rapidly deteriorating weather conditions. Limited work was completed on other areas of the property, including the South Treaty Glacier siliceous alteration zone, and prospecting of the stratigraphy on the TR-6 and TR-7 claims.

A brief summary of activity on surrounding properties is included here:

The Treaty Creek Project lies within an historically active mining and exploration area that extends some 225 kilometres from Stewart in the south to Telegraph Creek in the north. Within this area, referred to as the Stikine Arch, mining activity goes back to the turn of the century. Due to the size of the region it has historically been referred or subdivided into more specific areas, including the Stewart, Sulphurets, Iskut River, and Galore Creek areas. Recently, mineral discoveries have been made in areas "between" the above camps. The location of several deposits and mineral occurrences appears in Figure 3, which also locates the Treaty Creek Project with respect to these sites.

The Treaty Creek Project is located on the northern flank of the Iskut-Sulphurets area which has seen extensive exploration in the last several years. The Iskut area originally attracted interest at the turn of the century when prospectors, returning south from the Yukon goldfields searched for placer gold and staked bedrock gossans. In the 1970s the porphyry copper boom drew additional exploration into


Telegraph Creek
Glenora
MOUNT GORDON
131°00'W
Mess Creek
EDZIZA PEAK
Nuttlude Lake
Kinashkan Lake
Kakiddi Lake
Mowdale Lake
130°00'W
Klappan River
57°30'N
RIVER
AMBITION MTN
37
Scud R
35
MOUNT HICKMAN
34
33
32
38
Sphaler Ck
31
Porcupine R
STIKINE
HANKIN PEAK
36
More Creek
River
STEWART-CASSIAR HWY
Burrage Creek
Tumeka L
57°00'N
MOUNT ALGER
29
14
26
28
27
25
23
24
30
Iskut
19
14
40
21
20
16
Bell II
Stikine
22
17
15
18
14
13
12
11
10
DELTA PEAK
TREATY CREEK PROJECT
Bell-Irving River
56°30'N
9
8
7
BRITISH COLUMBIA
ALASKA
Unuk River
Bowser River
Bowser Lake
6
CANADA
U.S.A.
5
4
Summit Lake
MOUNT PATULLO
3
MOUNT JOHN JAY
2
41
1
Premier
Meziadin Lake
STEWART
39
Portland Canal
• Mineral occurrence
● Major mineral occurrence
See next page for LEGEND
0 10 20 30 40
Kilometres
OREQUEST
TANTALUS RESOURCES LTD.
Figure 3
TREATY CREEK PROJECT
REGIONAL MINERAL OCCURRENCE MAP
British Columbia
JANUARY 1991
XY3
W.R.

LEGEND FOR FIGURE 3

	PROPERTY OWNER AND/OR NAME	MINERAL RESERVES AND/OR ELEMENTS
1	Westmin Resources Ltd./Silbak Premier Mines	6,100,000 tons 0.064 oz/t Au, 2.39 oz/t Ag
2	Westmin Resources Ltd./Tournigan Mining Explorations Ltd.	1,860,000 tons 0.09 oz/t Au, 0.67 oz/ton Ag
3	Noranda (Todd Creek Project)	Au
4	Scottie Gold Mine	Au
5	Granduc	10,890,000 tons 1.79% Cu
6	Echo Bay Mines/Magna Ventures/Silver Princess Resources (Doc Project)	470,000 tons 0.27 oz/ton Au, 1.31 oz/ton Ag
7	Western Canadian Mining (Kerr Project)	Cu, Au
8	Exponential Holdings Ltd. (Gold Wedge)	337,768 tonnes 25.78 g/tonne Au, 36.65 g/tonne Ag
9	Newhawk/Lacana/Granduc (Sulphurets Project - West Zone)	550,000 tons 0.42 oz/t Au, 18.0 oz/ton Ag
10	Prime/Stikine Resources Ltd. (Eskay Creek Project)	1,992,000 tons 1.47 oz/t Au, 55.77 oz/t Ag
11	Consolidated Silver Standard Mines Ltd. (E & L Deposit)	3,200,000 tons 0.80% Ni, 0.60% Cu
12	Inel Resources Ltd.	Au, Ag, Cu, Pb, Zn
13	Skyline Gold Corporation (Johnny Mountain)	740,000 tons 0.52 oz/ton Au, 1.0 oz/ton Ag
14	Kestrel Resources Ltd.	Au, Ag, Cu, Pb, Zn
15	Hector Resources Inc. (Golden Spray Vein)	Au, Ag
16	Tungco Resources Corp.	Au, Ag, Cu, Pb, Zn
17	Winslow	Au, Ag, Cu, Pb, Zn
18	Cominco/Prime (Snip Deposit)	1,030,000 tons 0.88 oz/ton Au
19	Pezgold Resource Corp.	Ag, Au
20	Meridor Resources Ltd.	Au
21	Prime/American Ore Ltd./Golden Band	Au
22	Magenta Development Corp./Crest Resources Ltd.	Au, Ag, Cu, Pb
23	Ticker Tape Resources Ltd. (King Vein)	Au
24	Pezgold Resource Corp.	Au
25	Consolidated Sea-Gold Corp.	Au
26	Gulf International Minerals Ltd. (Northwest Zone)	Au, Ag, Cu
27	Kerr Claims	Ag, Cu, Au
28	Pezgold Resource Corp. (Cuba Zone)	Ag, Pb, Zn
29	Pezgold Resource Corp. (Ken Zone)	Cu, Au
30	Avondale Resources Inc. (Forrest Project)	Au, Ag, Cu
31	Pass Lake Resources Ltd. (Trek Project)	Cu, Au
32	Galore Creek	125,000,000 tons 1.06% Cu, 0.397 g/t Au, 7.94 g/t Ag
33	Continental Gold Corp.	Au, Ag, Cu
34	Bellex Resources Ltd./Sarabat Resources Ltd. (Jack Wilson Project)	Au, Cu
35	Pass Lake Resources Ltd. (JD Project)	Au, Cu
36	Lac Minerals (Hankin Peak Project)	Au
37	Schaft Creek	910,000,000 tons 0.30% Cu, 0.020% Mo, 0.113 g/t Au, 0.992 g/t Ag
38	Paydirt	200,000 tons 0.120 oz/ton Au
39	Bond International Gold (Red Mountain)	Au, Ag
40	Eurus/Thios (Rock & Roll)	Ag, Pb, Zn, Cu, Au
41	Westmin Resources Ltd. (SB)	308,000 of 0.505 oz/ton Au, 1.07 oz/ton Ag

the area. A new era of gold exploration began with the 1979 option of the Sulphurets claim block by Esso Minerals Canada. Since 1979, more than 70 new mineral prospects have been identified, though ground acquisition was relatively slow until the fall of 1987 when the results of numerous summer exploration programs became known and the provincial government released the results of a regional stream sediment survey.

In the Sulphurets Creek camp 8 km south of the Treaty Creek Project, near Brucejack Lake, the vein-hosted West Zone of Newhawk Gold Mines Ltd., Granduc Mines Ltd. and Homestake Canada Inc., (formerly International Corona Corporation) is reported to contain a diluted minable reserve of 550,000 tons grading 0.42 oz/ton gold and 18.0 oz/ton silver (The Northern Miner, Vol. 76, #36, Nov. 12, 1990) while the Snowfield Gold Zone and Sulphurets Lake gold zone are bulk tonnage low grade deposits containing 7.7 million tons of 0.075 oz/ton gold and 20 million tons of 0.08 oz/ton gold respectively (GCNL Aug. 24, 1989). The northern boundary of the Newhawk, Granduc, Homestake ground adjoins the southern claim boundary of the Treaty Creek Project. Exponential Holdings Ltd.'s Gold Wedge Property is reported to contain 337,768 tonnes of 25.78 grams/tonne gold and 36.65 grams/tonne silver, in the Golden Rocket Vein in a similar setting (GCNL, November 23, 1990). Also located in the area is Placer Dome Inc.'s Kerr property, a porphyry copper-gold occurrence to which they have assigned a geological resource of 138,000,000 tons grading 0.61% copper and 0.01 oz/ton gold (Placer Dome Inc. Annual Report, 1989).

On the Cominco Ltd., Prime Resources Group Inc. Snip property situated 60 km west of the Treaty Creek Project, a 3 to 25 ft thick discordant shear vein system known as the Twin Zone reportedly hosts some 1,030,000 tons grading 0.88 oz/ton gold. Cominco Ltd. and Prime Resource Group recently placed the Snip Deposit into production.

Nearby at Skyline Gold Corporation's Johnny Mountain Mine, reserves in all categories are estimated at 740,000 tons of 0.52 oz/ton gold and 1.00 oz/ton silver with copper, zinc, and lead (Canadian Mines Handbook, 1990-91). The Johnny Mountain Mine began production in 1988 but was soon shut down due to adversely low gold prices.

The most recently discovered, and perhaps most exciting new gold discovery, occurs on the Eskay Creek property of Prime Resources Group and Stikine Resources Ltd., located 20 km west of the Treaty Creek Project. Several types and styles of mineralization are present at Eskay Creek, the most significant of which are: a) a gold and silver-rich assemblage of disseminated to near-massive stibnite and realgar within a carbonaceous mudstone-rhyolite breccia "contact zone" (21-A Zone); and, b) a stratiform, banded base metal sulphide deposit with high gold and silver values in the contact zone of footwall rhyolitic pyroclastics of the Mount Dilworth Formation and hanging wall andesite flow and sill complex and intercalated mudstone units of the Salmon River Formation (21-B Zone). The property is currently undergoing underground development and exploration.

At a cut-off grade of 0.10 oz/ton gold probable geological reserves in the 21-B Zone are reported to be 4,190,000 tons grading 0.78 oz/ton gold and 29.74 oz/ton silver. Additional, possible, reserves in the 21B Zone stand at 174,000 tons grading 0.42 oz/ton gold and 14.06 oz/ton silver. The 21-A Zone has been assigned a probable reserve of some 828,000 tons grading 0.32 oz/ton gold and 3.2 oz/ton silver with additional possible reserves of 237,000 tons grading 0.15 oz/ton gold and 5.5 oz/ton silver (Canadian Mines Handbook, 1991-1992).

Immediately south of the Eskay deposit, American Fibre Corporation and Silver Butte Resources are in a Joint Venture on the SIB Project, which is underlain by the same stratigraphy hosting the Eskay Creek deposits. Results from 1990 drilling on the Sib Project returned assays of up to 0.421 oz/ton gold and 30.91 oz/ton silver over 46.9 ft (Vancouver Stockwatch, October 10, 1990). Results from the final 1990, 26 hole drill program included 0.13 oz/ton gold over 6.3 ft and 0.13 oz/ton gold over 19 ft., both in hole 90-38 (GCNL, November 5, 1990).

Elsewhere in the area Tymar Resources Ltd. and Akiko-Lori Gold Resources began drilling on the Lakewater Project in 1990 within a 320 m wide gap in the American Fibre, Silver Butte SIB property. Results have included 9.8 ft of 1.197 oz/ton gold, 1.7 oz/ton silver, 0.73% lead and 0.72% zinc (hole LW90-2), 3.3 ft of 0.115 oz/ton gold (LW90-

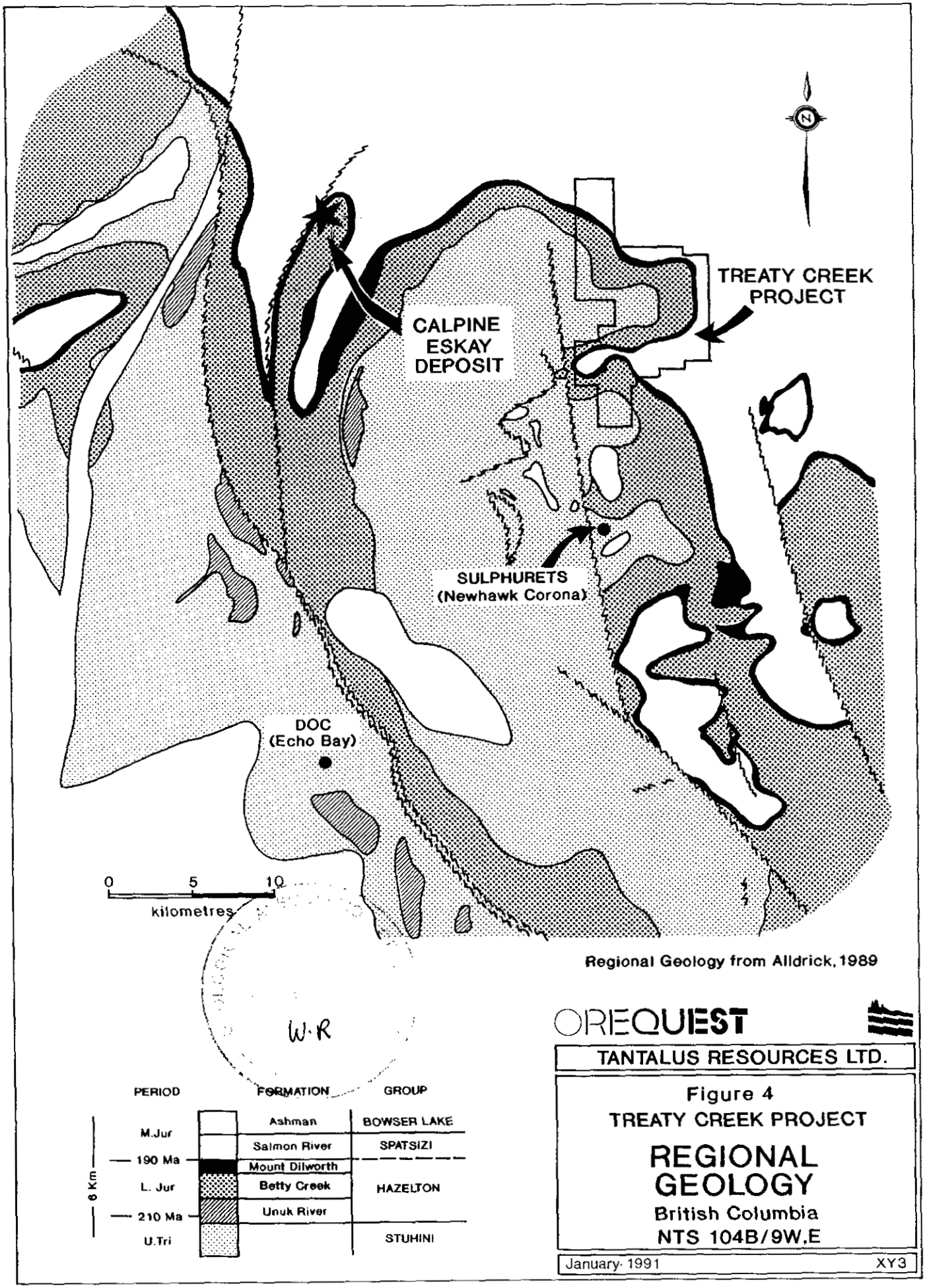
3) and 16.4 ft of 0.042 oz/ton gold (LW90-6), (Vancouver Stockwatch, October 30, 1990).

REGIONAL GEOLOGY

The Treaty Creek property lies within the Iskut River map area (NTS 104B) which encompasses an important geological transect through the west-central Cordillera. The area is underlain by the Stewart Complex (Grove 1971, 1986) which includes Late Palaeozoic and Mesozoic rocks, confined by the Coast Plutonic Complex to the west, the Bowser Basin to the east, Alice Arm to the south and the Iskut River to the north. Figure 4 is a simplified representation of the regional geologic setting after Alldrick (1989).

Grove (1971, 1986) established the modern stratigraphic, plutonic and metallogenic framework for the Stewart mining district. Alldrick (1983, 1984, 1985, 1987, 1988), Alldrick et al. (1987, 1988, 1989), and Britton and Alldrick (1988) have redefined and extended the Mesozoic stratigraphy around the Silbak Premier and Big Missouri mines northward to the Sulphurets and Bronson Creek Camps.

The stratigraphy and plutonic framework are most simply described in terms of four tectonostratigraphic elements: a Palaeozoic Stikine Assemblage, Triassic and Jurassic Stikinian strata and plutons, Middle and Upper Jurassic Bowser Lake Group and Tertiary Coast Plutonic Complex (Anderson, 1989). Of particular interest to explorationists are the Lower Jurassic volcanics and associated Early Jurassic



Regional Geology from Alldrick, 1989

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Figure 4
TREATY CREEK PROJECT

REGIONAL GEOLOGY

British Columbia
NTS 104B/9W,E

January 1991 XY3

alkaline granitic rocks of the Stikinian Assemblage with which many precious metal vein deposits are associated (eg. Premier, Big Missouri, Silver Butte, Sulphurets).

The Unuk River Formation in the eastern Iskut River map area in which the Treaty Creek Property is located is dominated by white and grey-brown andesitic volcanic breccia and thin-bedded lava (Anderson and Thorkelson, 1990). West of the Bowser River, the volcaniclastics grade into epiclastic units, dominated by siliceous siltstone and subordinate pebble conglomerate and greywacke.

The Betty Creek Formation, conformably overlying the Unuk River Formation, contains characteristic maroon to green volcanic rocks and siltstone, greywacke, conglomerate and volcanic breccias. These members can be massive, thick- or medium-bedded. The clastic sediments are likely derived by erosion of Unuk River Formation tuffs and flows. Areas where the Betty Creek Formation thins or pinches out represent paleotopographic highs.

The Hazelton Group encompasses Lower Jurassic Unuk River and Betty Creek Formation volcanics and Middle Jurassic Mt. Dilworth Formation volcanogenic rocks. These are overlain by upper Middle Jurassic sediments of the Salmon River Formation and Upper Jurassic Bowser Lake Group sediments. In the eastern Iskut River map area, the Mount Dilworth Formation is the least heterogeneous and most laterally extensive marker within the Hazelton Group. It consists of

distinctive white, maroon or green weathering, siliceous felsic welded tuff and tuff breccia (Anderson, 1989). This unit is resistant, often cliff-forming and is an important regional stratigraphic marker (Alldrick, 1988). The Mount Dilworth formation is comprised predominantly of felsic airfall deposits and represents the last volcanic event of the Hazelton Group volcanism.

The Salmon River Formation in this area is comprised of a thick assemblage of thin to medium-bedded siltstones, mudstones and wackes with a thin, sandy, bioclastic limestone at the base.

Plutonic rocks occur throughout the Iskut map area, but predominate in the southwest. Recent mapping and geochronometry have helped to define the plutonic rocks into four main episodes (Anderson, 1989):

1. Late Triassic - Stikine plutonic suite
2. Early Jurassic - Texas Creek plutonic suite
3. Middle Jurassic - Three Sisters plutonic suite
4. Eocene - Hyder plutonic suite.

The Early Jurassic Texas Creek plutonic suite is coeval with eruption of Lower Jurassic Hazelton Group volcanic rocks, and is crosscut by alkali - feldspar - phyric andesite dykes, ie "Premier Porphyry" dykes (Anderson & Bevier, 1990). These dykes are thought to have fed the porphyritic volcanic flows present at the top of the Unuk River andesitic sequence.

The regional structural pattern is a north - northwest - striking system of open to tight folds. The axial planes dip steeply west-southwest and the folds are doubly plunging, creating a series of canoe-shaped synclinal troughs in the Long Lake area.

During the Cretaceous, moderate deformation with lower greenschist facies regional metamorphism formed slaty cleavage along north-trending fold axes (Alldrick, 1986).

Precious and base metal veins developed in the area occur within the Upper Triassic (i.e. Kerr, Doc, Inel, Snip, and Stonehouse deposits), Lower Jurassic (i.e. Premier and Sulphurets deposits) and lower Middle Jurassic (i.e. Eskay creek deposit) strata. For many deposits (i.e. Premier, Kerr, Inel and Snip) proximity to Early Jurassic calc-alkaline to alkaline plutonic intrusions, especially the alkali-feldspar porphyry variety (Premier porphyry) seems to be the main ore control, in which case the host strata are of secondary importance.

The Eskay Creek 21B Zone Deposit is an important exception where precious metal rich sulphide zones are stratabound within sedimentary and pillowed lava sequences of the Salmon River Formation.

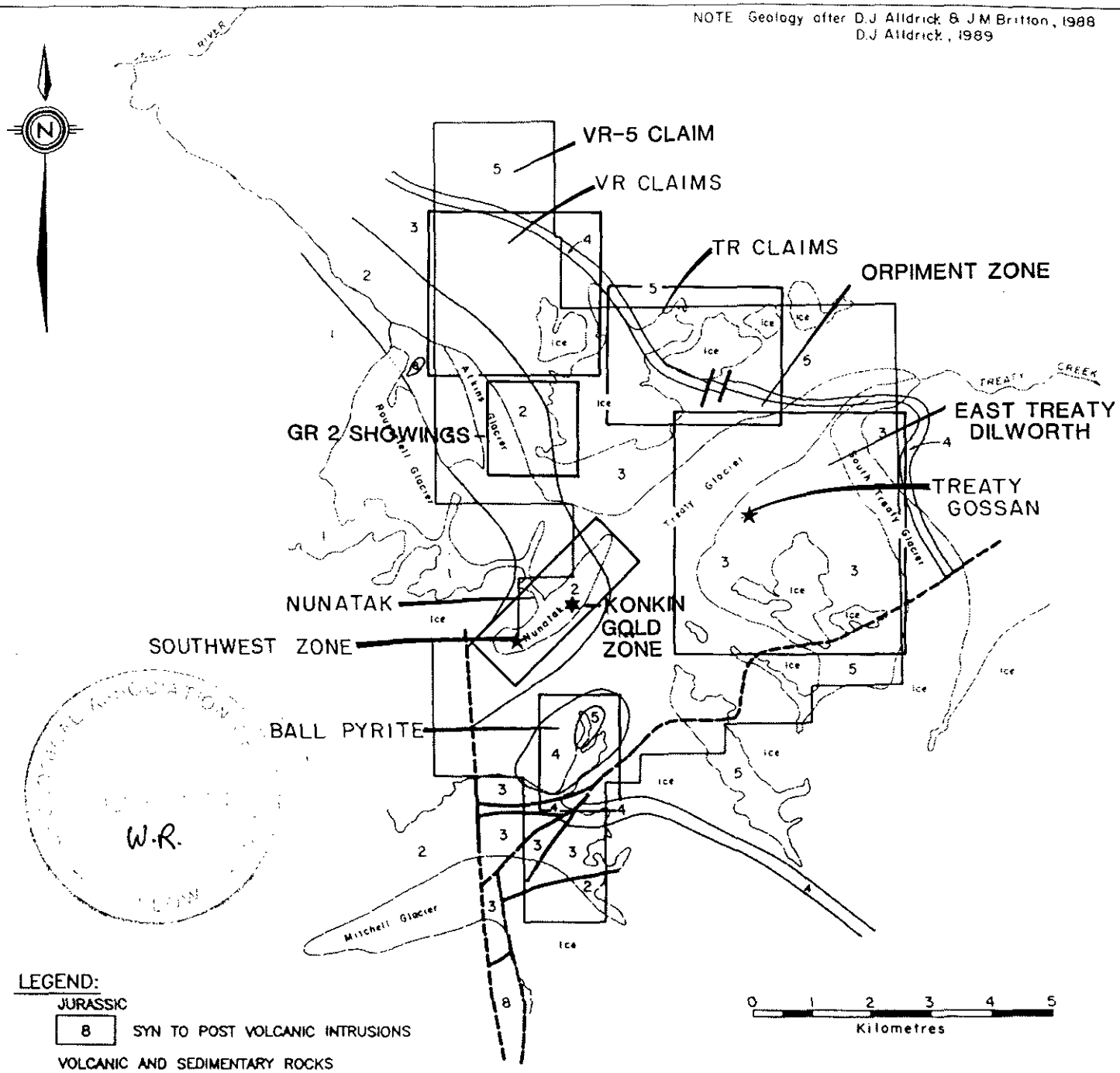
EXPLORATION PROGRAM AND TARGET CONSIDERATIONS

The 1992 exploration program focused on areas underlain by stratigraphy deemed to have the potential of hosting Eskay Creek type

deposits that had not been examined in detail in previous programs. To a lesser extent work was conducted in areas hosting epithermal ± porphyry copper alteration assemblages to evaluate these for the respective deposit types. The work completed this year was conducted in five main areas known as: 1) Treaty Gossan; 2) East Treaty Dilworth; 3) TR Claims; 4) VR-5 Claim; and 5) Orpiment Zone (Figure 5). The Treaty Gossan and Orpiment Zone areas were evaluated for potential epithermal and/or porphyry copper deposits. The East Treaty Dilworth, TR-6&7 Claims, and VR-5 Claim areas were explored for Eskay Creek type deposits. The Orpiment Zone is unique in that it is an epithermal alteration zone which is locally proximal to, and possibly overprinting an Eskay Creek model stratigraphy.

The 1992 work included an extensive rock sampling program consisting of chip sampling over surface exposures and hand and dynamite-assisted trenching, and subsequent chip sampling over outcrops of interest or areas covered by overburden and subsequently exposed by trenching. Chip sample lengths were generally 1-2 m. A few grab samples were collected, generally of small outcrops where any subsequent, more detailed work would be dependent upon results of the grab sample. A total of 1159 rock samples were collected and sent to TSL Laboratories in Saskatoon, Saskatchewan for gold analysis and to TSL in Rouyn-Noranda, Quebec for a 30-element I.C.A.P. Plasma Scan analysis (Appendix I).

NOTE Geology after D.J Alldrick & J.M Britton, 1988
D.J Alldrick, 1989



LEGEND:

JURASSIC

8 SYN TO POST VOLCANIC INTRUSIONS

VOLCANIC AND SEDIMENTARY ROCKS
TRIASSIC TO JURASSIC

MIDDLE JURASSIC SPATSIZI GROUP

5 SILTSTONE SEQUENCE
Salmon River Formation – sandstone, siltstone

LOWER JURASSIC HAZELTON GROUP

4 FELSIC VOLCANIC SEQUENCE
Mount Dilworth Formation – rhyolite to dacitic volcanics

3 PYROCLASTIC – EPICLASTIC SEQUENCE
Betty Creek Formation – pyroclastic volcanics and sediments

2 ANDESITE SEQUENCE
Upper Unuk River Formation – andesite sequence

1 LOWER SEDIMENTARY SEQUENCE
(Lower Unuk River Formation) – clastic sediments

SYMBOLS

GEOLOGIC CONTACT approximate

FAULT (defined, inferred)

OREQUEST

TANTALUS RESOURCES LTD.

Figure 5

TREATY CREEK PROJECT

PROPERTY GEOLOGY AND INDEX MAP

British Columbia
NTS: 104 B/9E

December 1990 Drafting: RWR

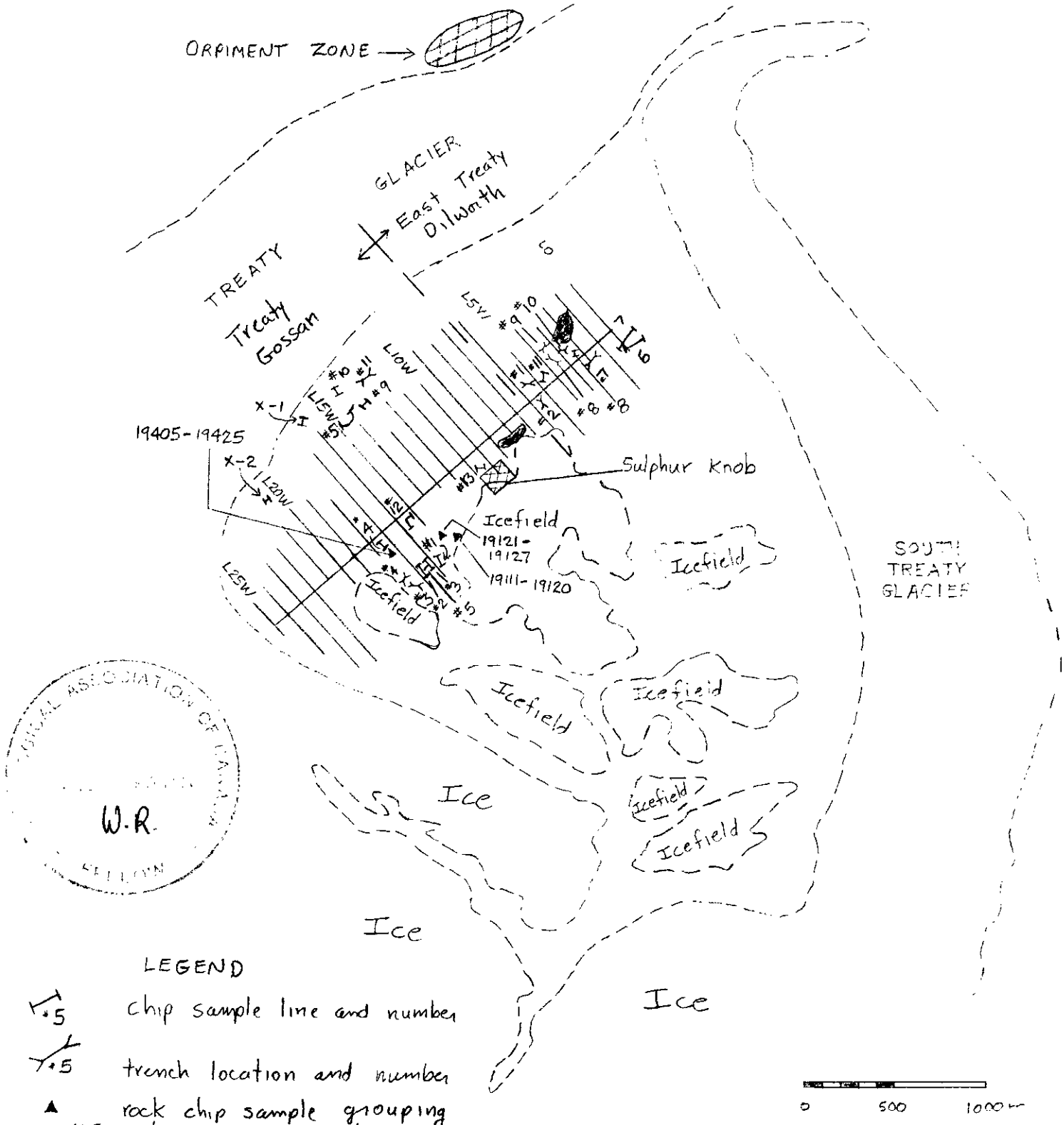
GEOLOGY AND GEOCHEMISTRY

Treaty Gossan

The Treaty Gossan area was the subject of extensive surficial sampling and trenching. A total of 11 chip lines (#1, 2, 3, 4, 5, 9, 10, 12, 13, X-1, X-2) and 6 dynamited trenches (TR-92-3, 4, 5, 6A, 6B, 11) were completed. Also, 57 chip samples were obtained from an area known as Sulphur Knob and another 86 grab and chip samples were collected throughout the grid area from lines 9W to 19W (Figure 6).

The main bulk of the Treaty Gossan alteration zone covers an area of approximately one square kilometre. It is characterized by an intense pervasive pyrite-quartz-sericite alteration producing a highly schistose rock. Unaltered rock within the gossan zone consists chiefly of andesite and minor dioritic intrusions. The latter could be coarser grained andesitic flows or feeders to the flows.

Sampling in previous years failed to yield any significantly anomalous results in precious or base metals, nor were any significant alteration/mineralization trends or zonations discovered. This previous sampling was largely grab samples taken from strongly altered rock within the Treaty gossan. The program completed this year attempted to determine if any metal or alteration zonation existed anywhere within the system through more systematic and detailed sampling. Most of the foliation in the altered rock dips steeply to either the northwest or northeast which are also the directions to topographically lower, and thus structurally lower terrains.



TANTALUS RESOURCES LTD.

Treaty Creek Project

Figure No. 6

TREATY GOSSAN AND EAST TREATY DILWORTH

TRENCH & CHIP LINE LOCATIONS

British Columbia

NTS 104B/7E

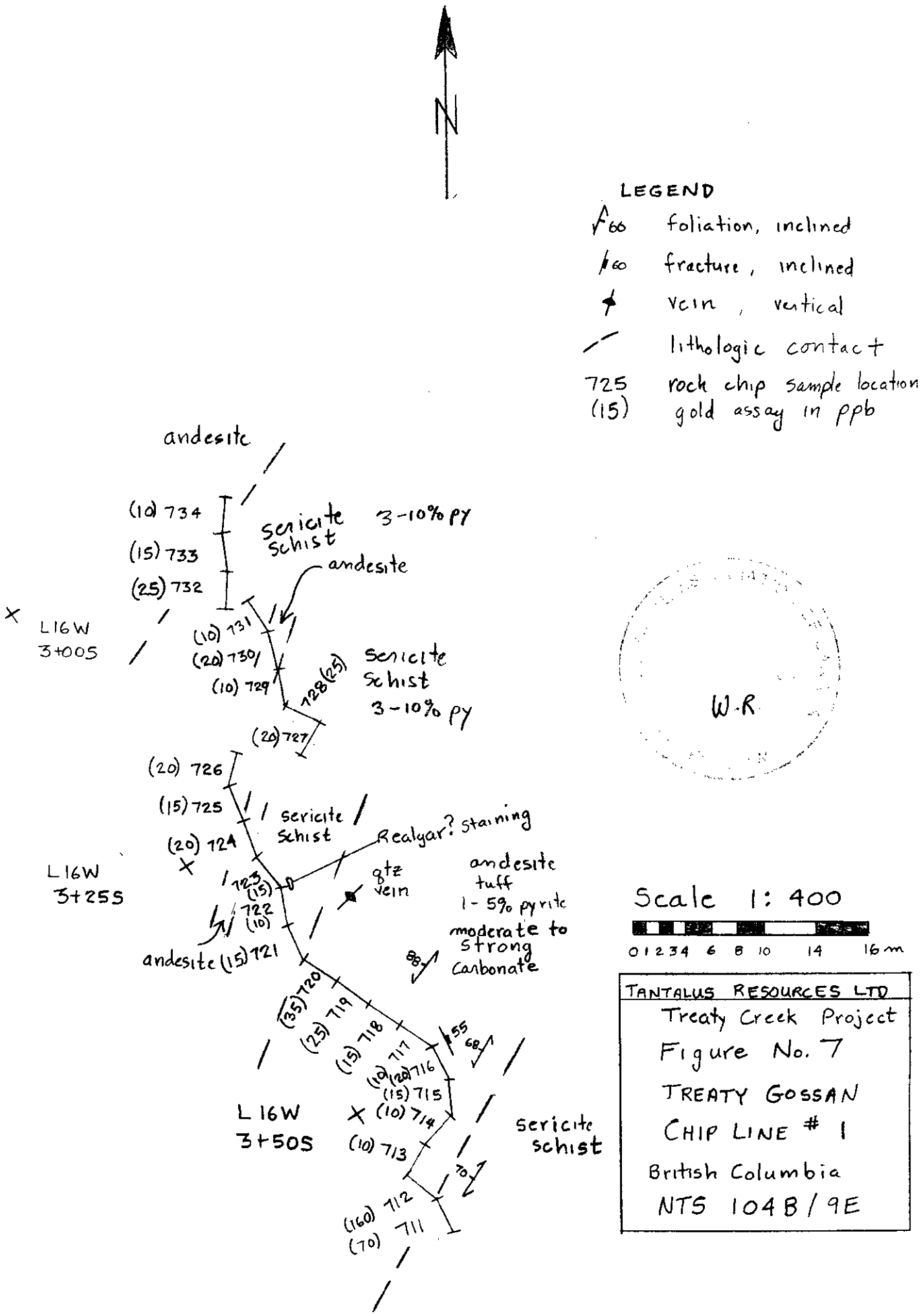
Therefore, the sampling program started at the higher, southern, end of the grid and worked in a northerly direction. This allowed a three dimensional testing of the alteration system. Most of the sampling was done south of the baseline as this is where the bulk of outcrop exposure occurs. North of the baseline a large moraine outwash plain occurs with relatively little outcrop. This results in an approximately 500 m information gap between data from the south, to the first chip line north of the baseline (Figure 6).

South of Baseline

Several interesting results and anomalous trends were detected from the chip lines and trenches. The southern most chip lines (#1, 2, 3, 4) and trenches (3, 4, 5) (Figure 6) did not yield any economically significant precious or base metal assays but did provide some anomalous results especially from chip line #3 and trench #5.

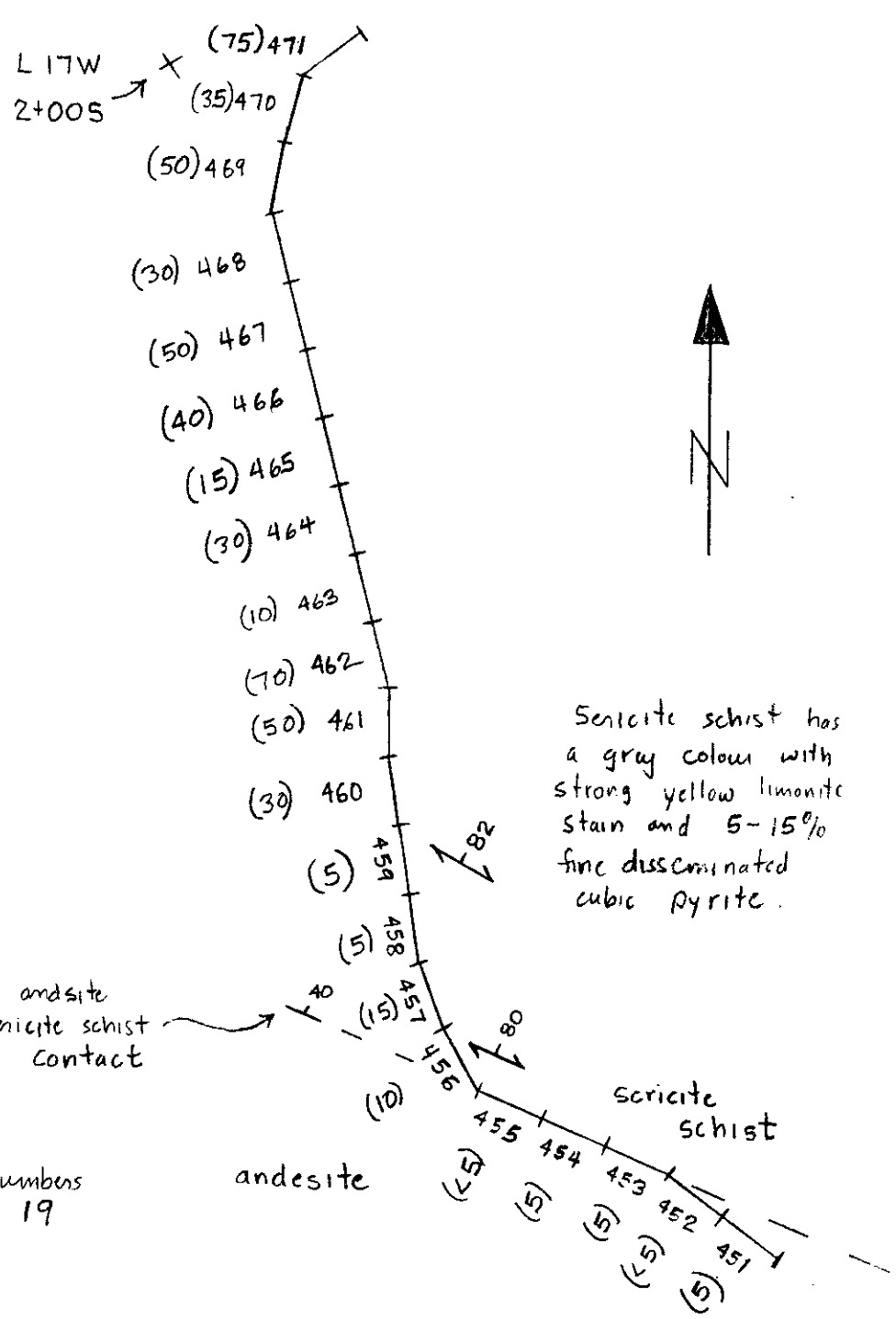
Results from chip lines 1, 2 and 4 (Figures 7, 8, & 10) are not significant except for zinc with highs of 160 ppb gold, 16 ppm silver, 210 ppm copper, and 422 ppm lead. Zinc values are somewhat higher with 22 samples $\geq$100 ppm from chip line #1, including a high of 256 ppm, and 6 samples $\geq$100 ppm from chip line #2. Chip line #4, although farther north than the others, is on the edge of the alteration zone which likely explains why results from this line are low.

Results from the 25 samples from chip line #3 (Figure 9) were overall somewhat more anomalous for gold, lead, zinc and arsenic.


N
LEGEND
foliation, inclined
fracture, inclined
vein, vertical
lithologic contact
725 rock chip sample location
(15) gold assay in ppb
andesite
(10) 734
(15) 733
(25) 732
sericite schist
3-10% py
andesite
L16W
3+00S
(10) 731
(20) 730
(10) 729
728 (25)
sericite schist
3-10% py
(20) 727
(20) 726
(15) 725
(20) 724
sericite schist
Realgar? staining
L16W
3+25S
123 (15)
722 (10)
qtz vein
andesite tuff
1-5% pyrite
moderate to strong carbonate
andesite (15) 721
88
(35) 720
(25) 719
(15) 718
717
55
68
(10) (20) 716
(15) 715
L16W
3+50S
(10) 714
(10) 713
sericite schist
70
(160) 712
(70) 711
W.R
Scale 1: 400
0 1 2 3 4 6 8 10 14 16 m
TANTALUS RESOURCES LTD
Treaty Creek Project
Figure No. 7
TREATY GOSSAN
CHIP LINE # 1
British Columbia
NTS 104B/9E

LEGEND

✓80	foliation, inclined
— —	lithologic contact
466	chip sample location
(40)	gold assay in ppb



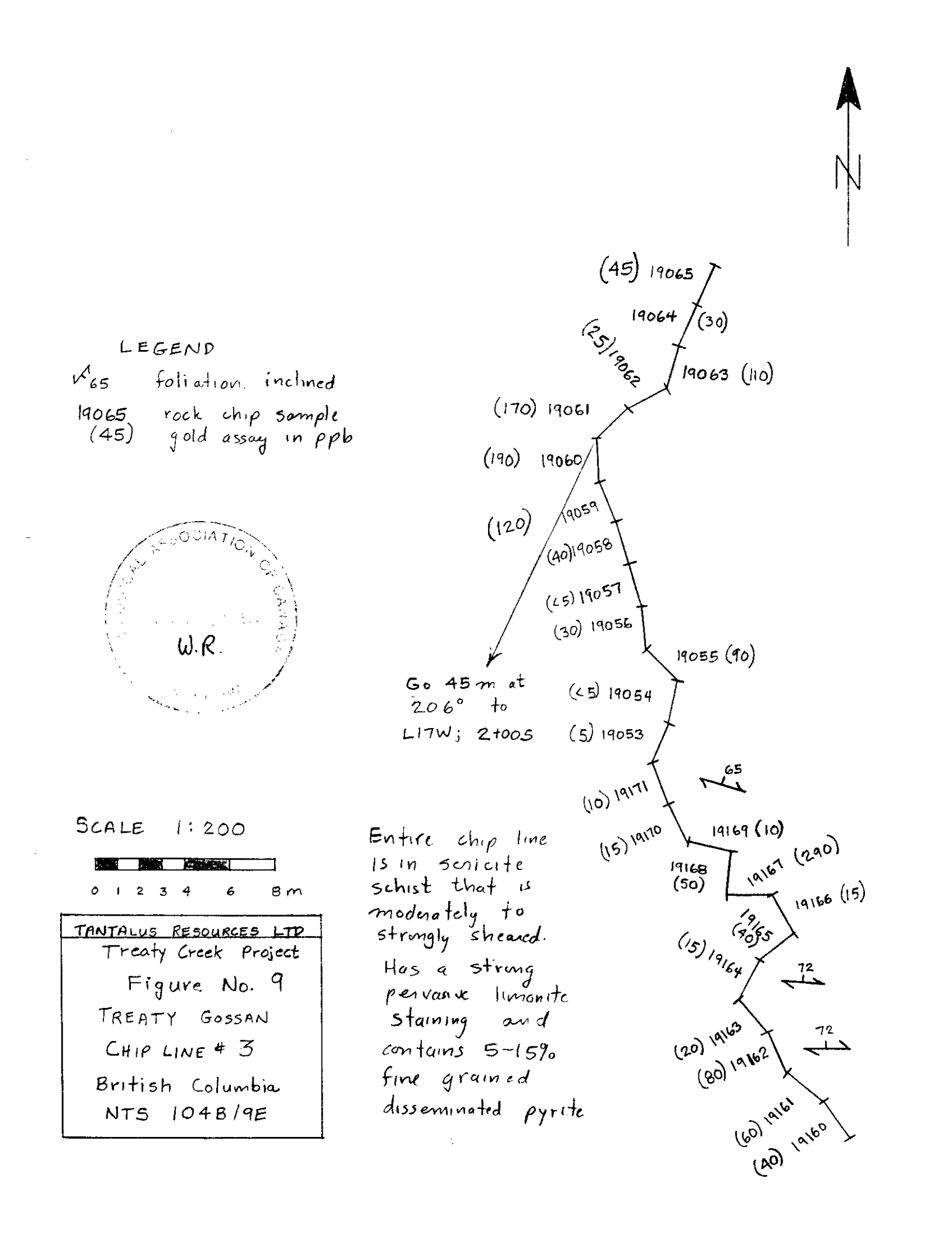
Sericite schist has a grey colour with strong yellow limonite stain and 5-15% fine disseminated cubic pyrite.

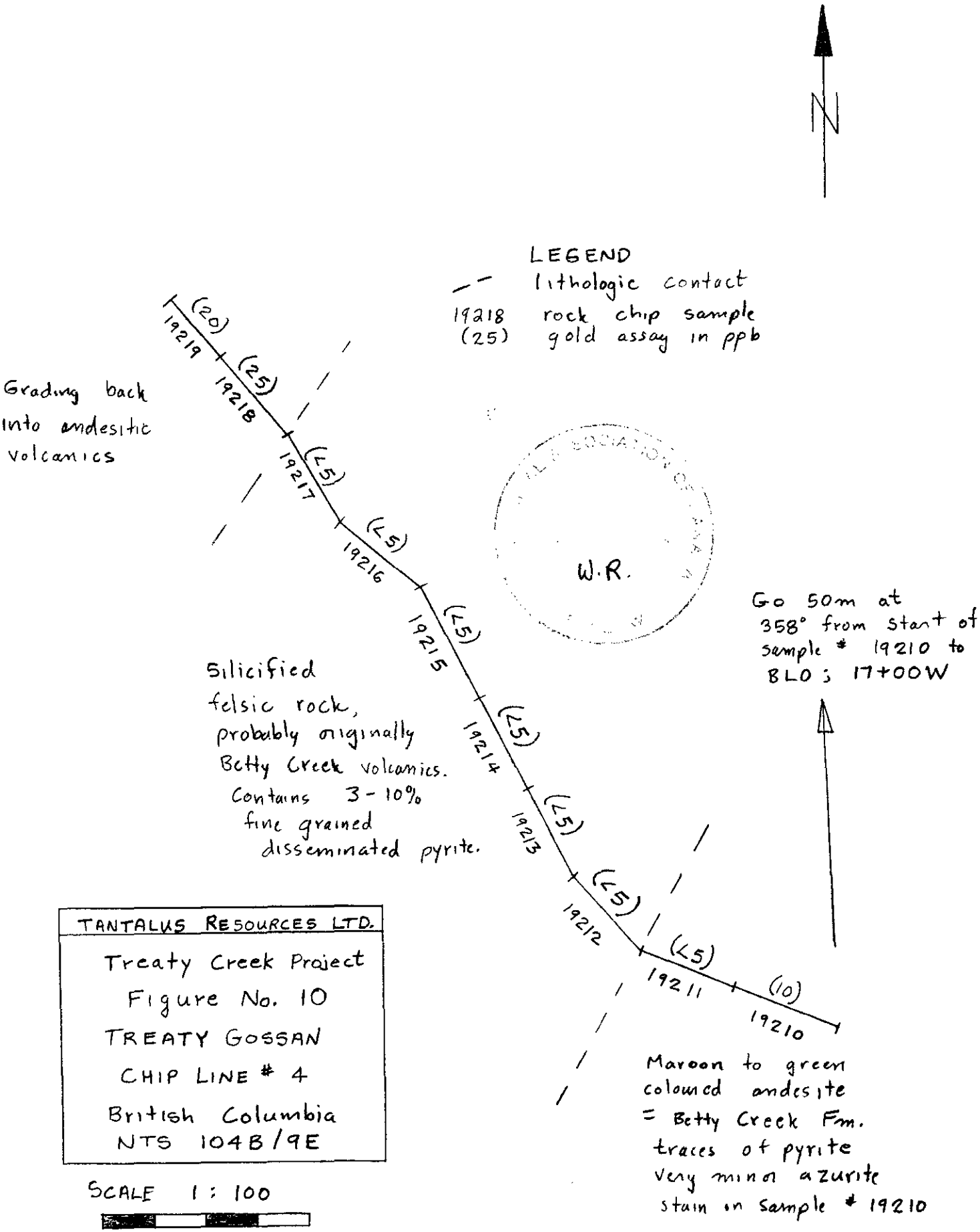
Scale 1:200

0 1 2 3 4 6 8 m

TANTALUS RESOURCES LTD
Treaty Creek Project Figure No. 8 TREATY GOSSAN CHIP LINE #2 British Columbia NTS 104B/9E

Note: All sample numbers prefixed by 19


N
LEGEND
65 foliation, inclined
19065 rock chip sample
(45) gold assay in ppb
(45) 19065
19064 (30)
(25) 19062
19063 (110)
(170) 19061
(190) 19060
(120)
19059
(40) 19058
(<5) 19057
(30) 19056
19055 (90)
Go 45 m at 206° to L17W; 2+00S
(<5) 19054
(5) 19053
65
(10) 19171
(15) 19170
19169 (10)
19168 (50)
19167 (290)
19166 (15)
19165 (40)
(15) 19164
72
(20) 19163
72
(80) 19162
(60) 19161
(40) 19160
W.R.
SCALE 1:200
0 1 2 3 4 6 8 m
TANTALUS RESOURCES LTD
Treaty Creek Project
Figure No. 9
TREATY GOSSAN
CHIP LINE # 3
British Columbia
NTS 104B/9E
Entire chip line is in sericite schist that is moderately to strongly sheared. Has a strong pervasive limonite staining and contains 5-15% fine grained disseminated pyrite

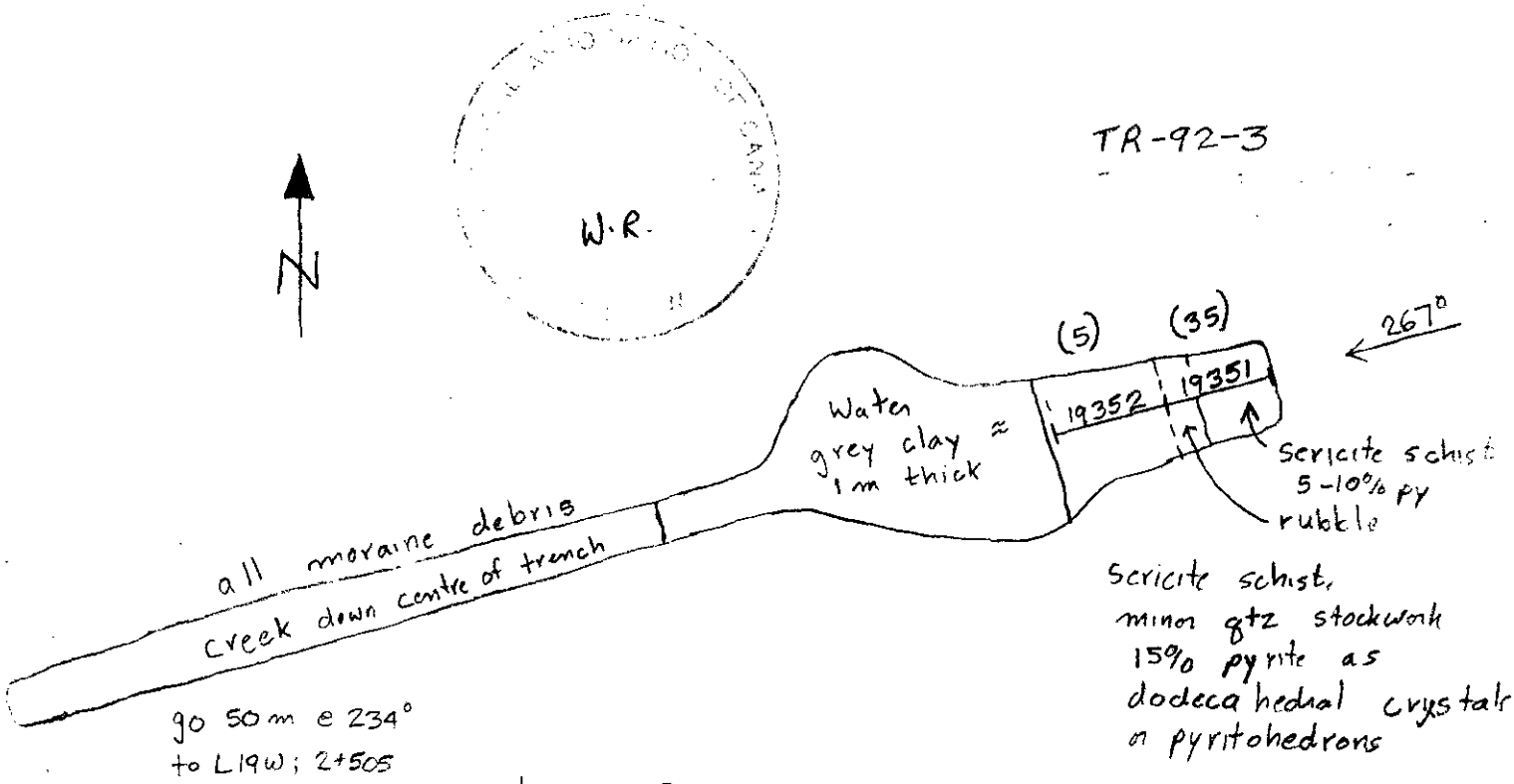

N
LEGEND
lithologic contact
19218 rock chip sample
(25) gold assay in ppb
Grading back into andesitic volcanics
(20) 19219
(25) 19218
(<5) 19217
(<5) 19216
(<5) 19215
(<5) 19214
(<5) 19213
(<5) 19212
(<5) 19211
(10) 19210
W.R.
Silicified felsic rock, probably originally Betty Creek volcanics. Contains 3-10% fine grained disseminated pyrite.
Go 50m at 358° from start of sample # 19210 to BLO; 17+00W
Maroon to green coloured andesite = Betty Creek Fm. traces of pyrite very minor azurite stain on sample # 19210
TANTALUS RESOURCES LTD.
Treaty Creek Project
Figure No. 10
TREATY GOSSAN
CHIP LINE # 4
British Columbia
NTS 104B/9E
SCALE 1:100
0 1 2 3 4 m

Gold assays are up to 290 ppb with 5 samples ≥ 100 ppb, lead ranged to 305 ppm with 9 samples ≥ 100 ppm, zinc to 540 ppm with 5 samples ≥ 200 ppm and arsenic ranged from 100-605 ppm with 19 samples ≥ 300 ppm. The arsenic values are almost an order of magnitude higher than those received from chip lines 1, 2 and 4. Silver and copper values from chip line #3 are low, with highs of 3 and 120 ppm respectively.

Trench 5 (Figure 12) is similarly anomalous in gold, copper, zinc and arsenic, with all the elevated results coming from the northeast end of the trench which is closest to chip line #3. Results include 100 ppb gold, 3 ppm silver, 1,200 ppm copper, (with 11 samples ≥ 100 ppm copper), 86 ppm lead, 510 ppm zinc, (also with 11 samples ≥ 100 ppm zinc), and 390 ppm arsenic (9 samples ≥ 100 ppm arsenic). Chip line 2, which returned no real anomalous results, and Chip line 3 are about 50 m apart and separated by trench 5. However, visually there are no differences in the rocks between them that may explain the large differences in results.

Trenches 3 and 4 (Figure 11) are on the western edge of the alteration zone in an area of moraine cover. They were blasted in an attempt to locate the source of some stockwork quartz veined boulders and a clay-gouge fault zone but no bedrock could be reached.

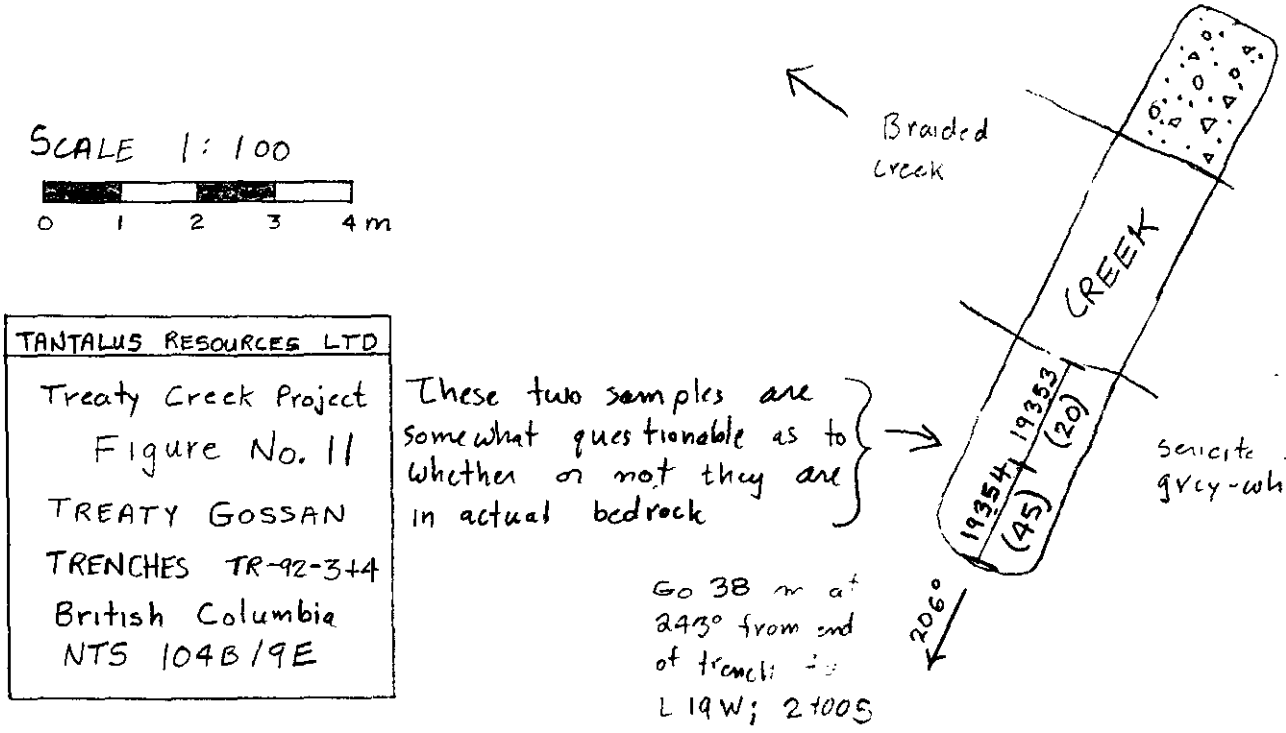
Chip line #12 (Figure 13) is the most northerly and lowest topographically of the chip lines south of the baseline. The results are generally higher than the more southerly and topographically



LEGEND

- trench outline
- overburden - moraine
- 19352 rock chip sample
- (5) gold assay in ppb

TR-92-4



SCALE 1:100

0 1 2 3 4 m

TANTALUS RESOURCES LTD

Treaty Creek Project

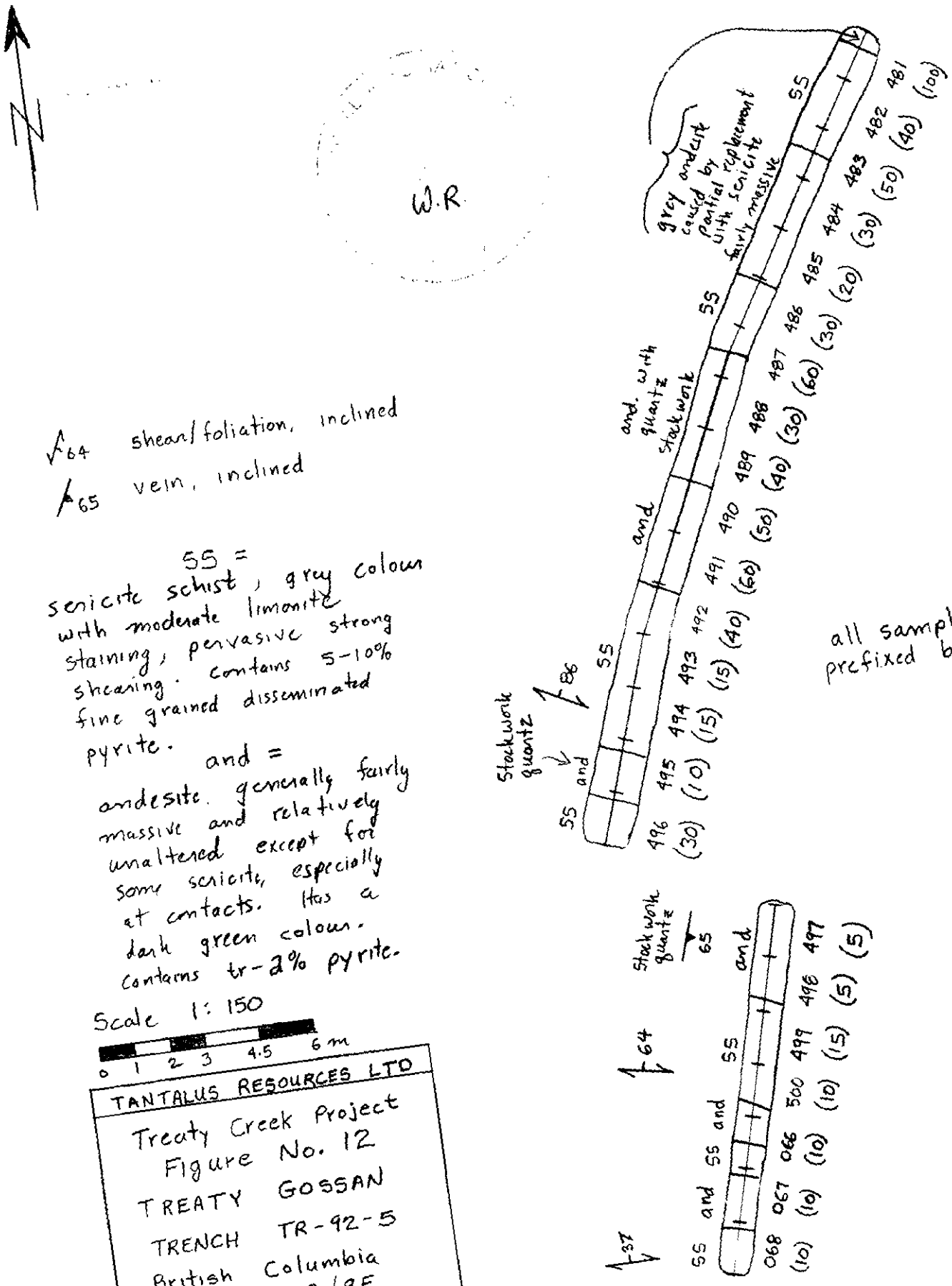
Figure No. 11

TREATY GOSSAN

TRENCHES TR-92-3+4

British Columbia

NTS 104B/9E



64 shear/foliation, inclined

65 vein, inclined

55 = sericite schist, grey colour with moderate limonite staining, pervasive strong shearing. contains 5-10% fine grained disseminated pyrite.

and = andesite. generally fairly massive and relatively unaltered except for some sericite, especially at contacts. Has a dark green colour. Contains tr-2% pyrite.

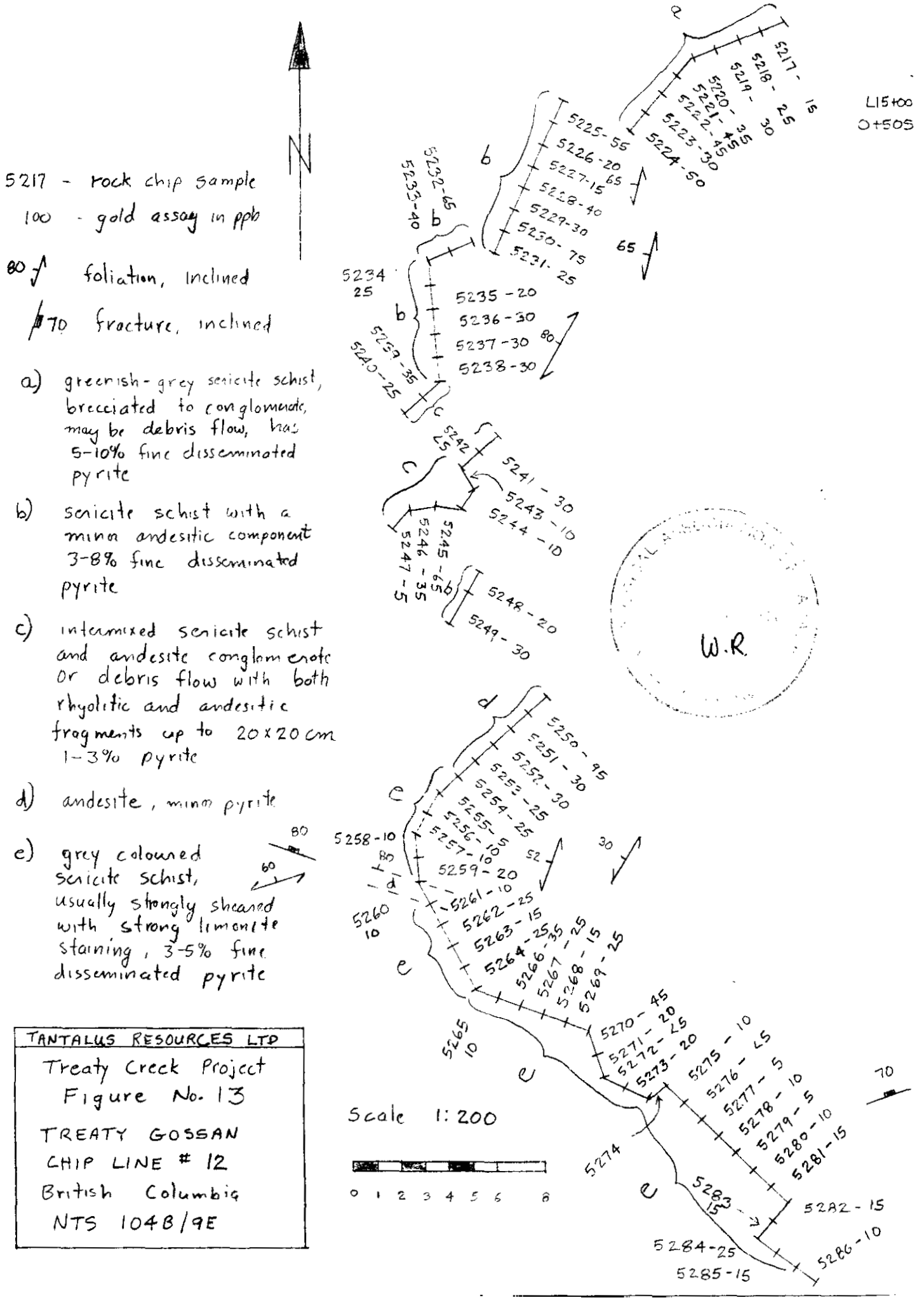
all samples are prefixed by 19

Scale 1: 150

0 1 2 3 4.5 6 m

TANTALUS RESOURCES LTD

Treaty Creek Project
Figure No. 12
TREATY GOSSAN
TRENCH TR-92-5
British Columbia
NTS 104 B/9E


5217 - rock chip sample
100 - gold assay in ppb
80 foliation, inclined
70 fracture, inclined
a) greenish-grey sericite schist, brecciated to conglomerate, may be debris flow, has 5-10% fine disseminated pyrite
b) sericite schist with a minor andesitic component 3-8% fine disseminated pyrite
c) intermixed sericite schist and andesite conglomerate or debris flow with both rhyolitic and andesitic fragments up to 20x20 cm 1-3% pyrite
d) andesite, minor pyrite
e) grey coloured sericite schist, usually strongly sheared with strong limonite staining, 3-5% fine disseminated pyrite
N
L15+00
0+50S
W.R
Scale 1:200
0 1 2 3 4 5 6 8
TANTALUS RESOURCES LTD
Treaty Creek Project
Figure No. 13
TREATY GOSSAN
CHIP LINE # 12
British Columbia
NTS 104B/9E

higher chips line. Gold assays are up to 95 ppm, silver was low, all <1 ppm, copper ranges to 240 ppm, lead to 180 ppm with 12 samples ≥100 ppm, zinc to 390 ppm with 19 samples of ≥100 ppm including 9 consecutive samples of ≥100 ppm, and arsenic to 360 ppm with 25 samples ≥100 ppm, including 13 samples of ≥200 ppm. The results themselves, although not much higher than more southerly lines, seem to have more samples that are consistently elevated above an arbitrarily chosen threshold level, that generally being 100 ppm for base metals.

North of Baseline

Sampling conducted on the north side of the baseline includes chip lines 5, 9, 10 and trench 11 (Figure 6). These areas are all in the range of 500-650 metres north of the baseline. These areas, especially chip line 5, show more consistently elevated results in both base and precious metals than do the areas sampled south of the baseline.

Chip line 5 (Figure 14) has yielded the highest and most consistently anomalous gold assays to date on the Treaty Gossan area. Of the 52 chip samples collected, 42 returned ≥ 100 ppb gold with 26 of those assaying ≥ 300 ppb gold and two returned gold assays of 0.030 and 0.032 oz/ton respectively both 1.5 m chips. These latter two samples overlap somewhat as the chip line was offset over moraine cover, but it would be fair to say there is at least a 2 m section that averages 0.031 oz/ton gold. Silver assays range from < 1-15 ppm but are generally around 3-6 ppm with 4 samples returning ≥ 10 ppm

W.R.

LEGEND

a - very strongly sericitized feldspar porphyritic andesite, minor pyrite and limonite on fractures.

b - moderately to strongly sericitized and calcitized aphanitic andesite with 3-5% disseminated cubic pyrite

c - completely sericitized andesite with 1-2% cubic pyrite and abundant boxwork texture (after weathered pyrite), abundant limonite and lessor manganese stain, mostly on fractures

d - andesite / sericite schist, intensly weathered chalky white colour with boxwork texture, contains 3-5% pyrite

e - coarse tuffaceous andesite with weak to moderate limonite stain, contains 5% pyrite, locally to 10% as fine cubic disseminations

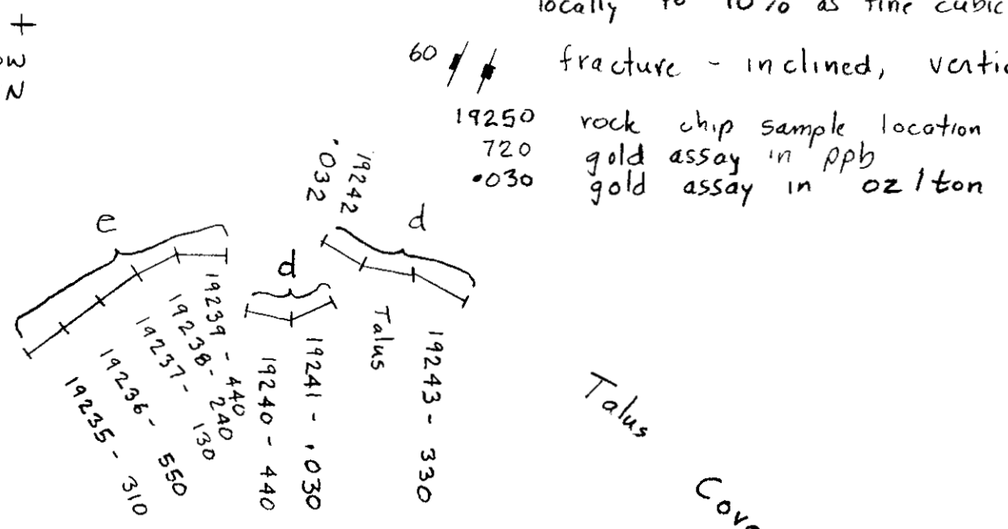
60 — fracture - inclined, vertical

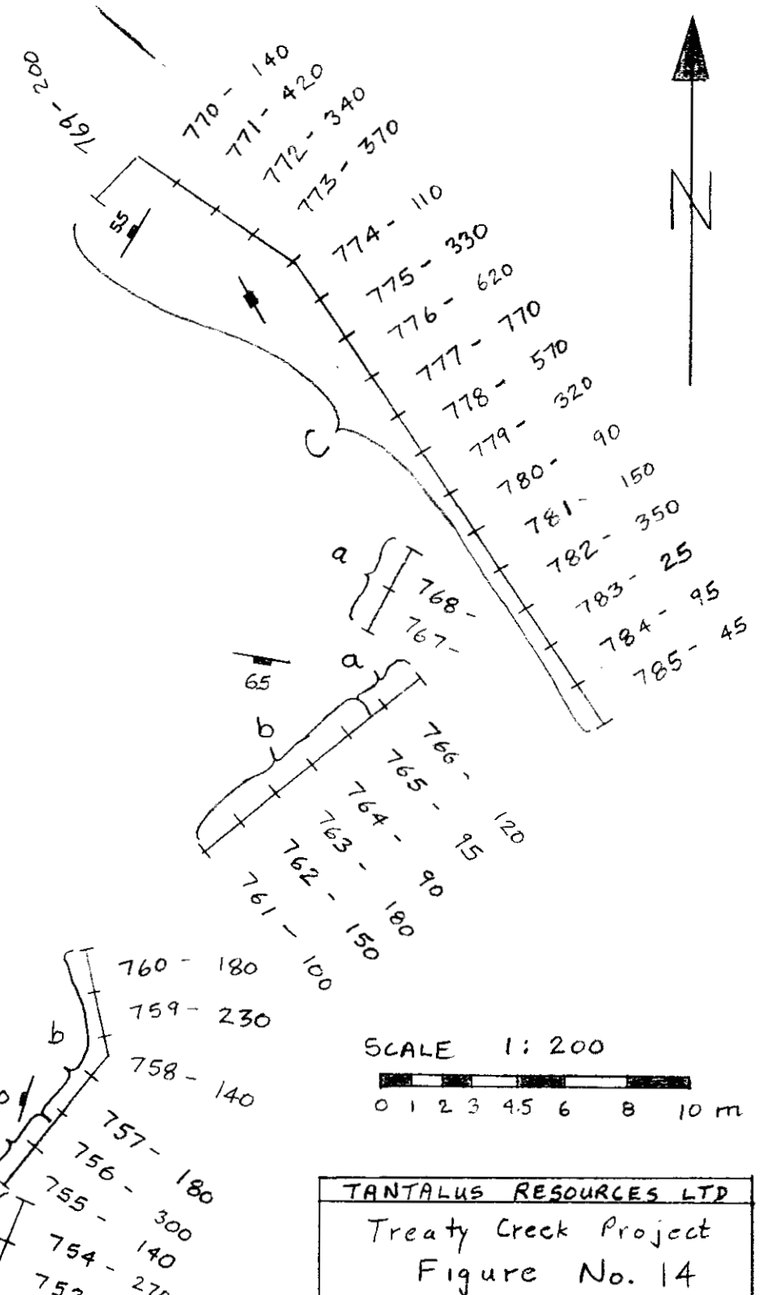
19250 rock chip sample location

720 gold assay in ppb

.030 gold assay in oz/ton

L15+00W
5+25N





SCALE 1: 200

0 1 2 3 4.5 6 8 10 m

TANTALUS RESOURCES LTD

Treaty Creek Project

Figure No. 14

TREATY GOSSAN

CHIP LINE # 5

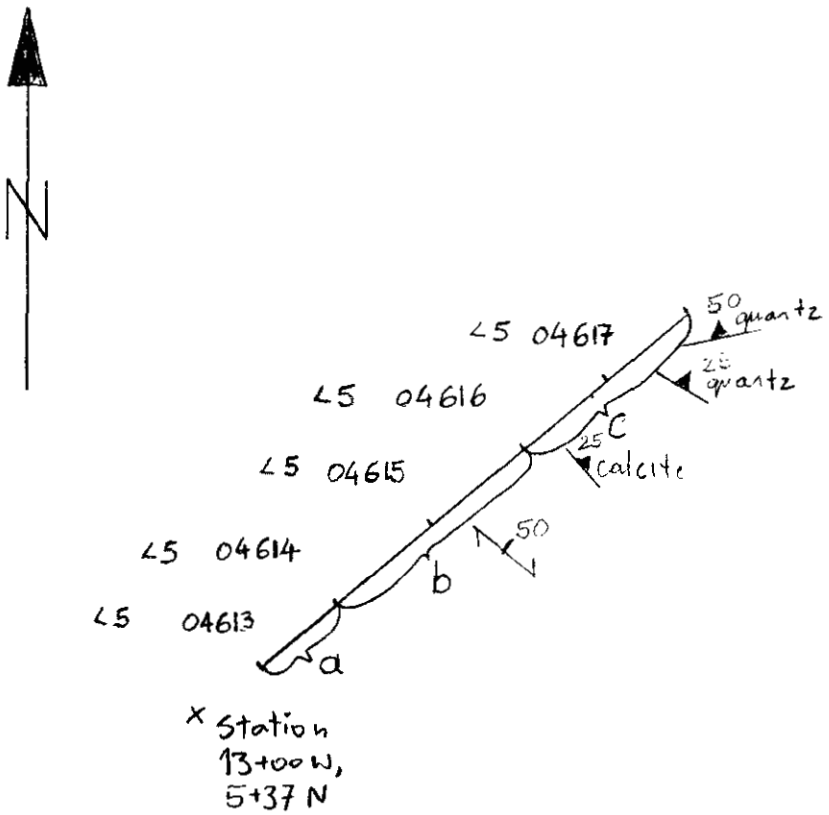
British Columbia

NTS 104B/9E

silver. Copper values range from 14-270 ppm with 19 samples returning $\geq$ 100 ppm, lead ranges from <1 to 700 ppm with 14 samples $\geq$ 100 ppm lead and zinc ranges from 11-290 ppm with 27 samples $\geq$ 100 ppm zinc. Arsenic values range from 15-610 ppm with the westernmost half of the samples from the chip line returning 100-610 ppm arsenic. Unlike previously discussed chip lines, this area is underlain largely by strongly sericitized and calcitized andesite with only local narrow sections of the more typical quartz sericite schist of the Treaty Gossan.

Chip line 9 (Figure 15), comprised predominantly of argillite and argillite breccia with minor sericite schist returned no significant assays and only two anomalous zinc values of 310 and 360 ppm respectively. Chip line 10 (Figure 16), with a total of 10 samples, returned relatively more anomalous base metals values. Gold results were low, the highest value being 65 ppb, silver ranged from 3-12 ppm, copper was low ranging from 6-81 ppm. However, lead, zinc, and arsenic were significantly higher with lead ranging from 27-660 ppm including 8 samples of $\geq$ 200 ppm, zinc ranged from 150-470 ppm with 8 samples of $\geq$ 300 ppm and arsenic ranged from 130-450 ppm. Chip line 10 is underlain by completely sericite and chlorite altered andesite containing 3-7% fine grained disseminated pyrite.

Trench 11 (Figure 17) was the last trench of the entire 1992 exploration program and was located below an aragonite bearing zone of the Treaty Gossan. The trench attempted to locate extensions of



Scale 1: 100

0 1 2 3 4 5m

TANTALUS RESOURCES LTD
Treaty Creek Project
Figure No. 15
TREATY GOSSAN
CHIP LINE # 9
British Columbia
NTS 104B/9E

LEGEND

a) argillite breccia with limonite

b) sericite schist with some irregular quartz veining, part of the rock contains 5-7% fine disseminated pyrite

c) argillite, strongly shattered to brecciated, locally abundant limonite with minor wad; a few quartz and calcite veins with minor limonite and wad present

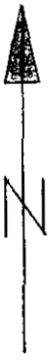
50 vein, inclined

50 schistosity, inclined

04617 rock chip sample

(<5) gold assay in ppb

W.R

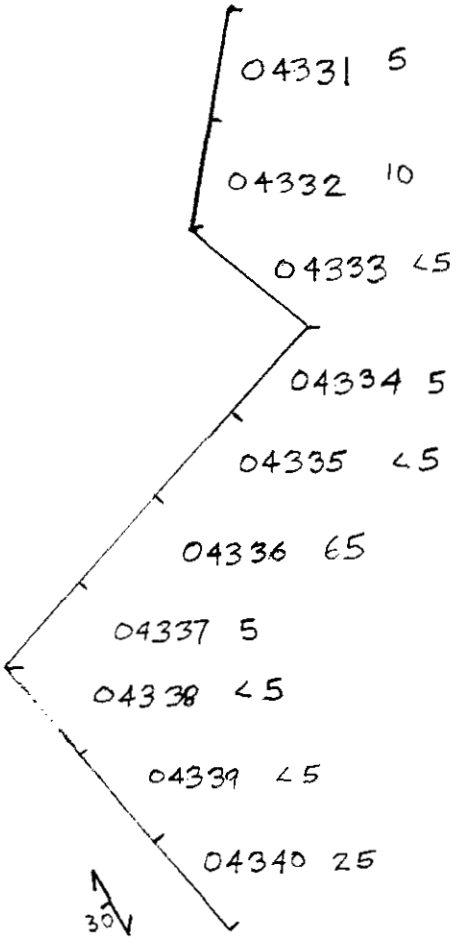


LEGEND

All samples are of completely sericite +/- chlorite altered andesite with 3-7% fine grained disseminated pyrite. Minor quartz veining present, the rock is fractured to sheared.

30 ↗ shearing trend

04338 (<5) rock chip sample, gold assay in ppb

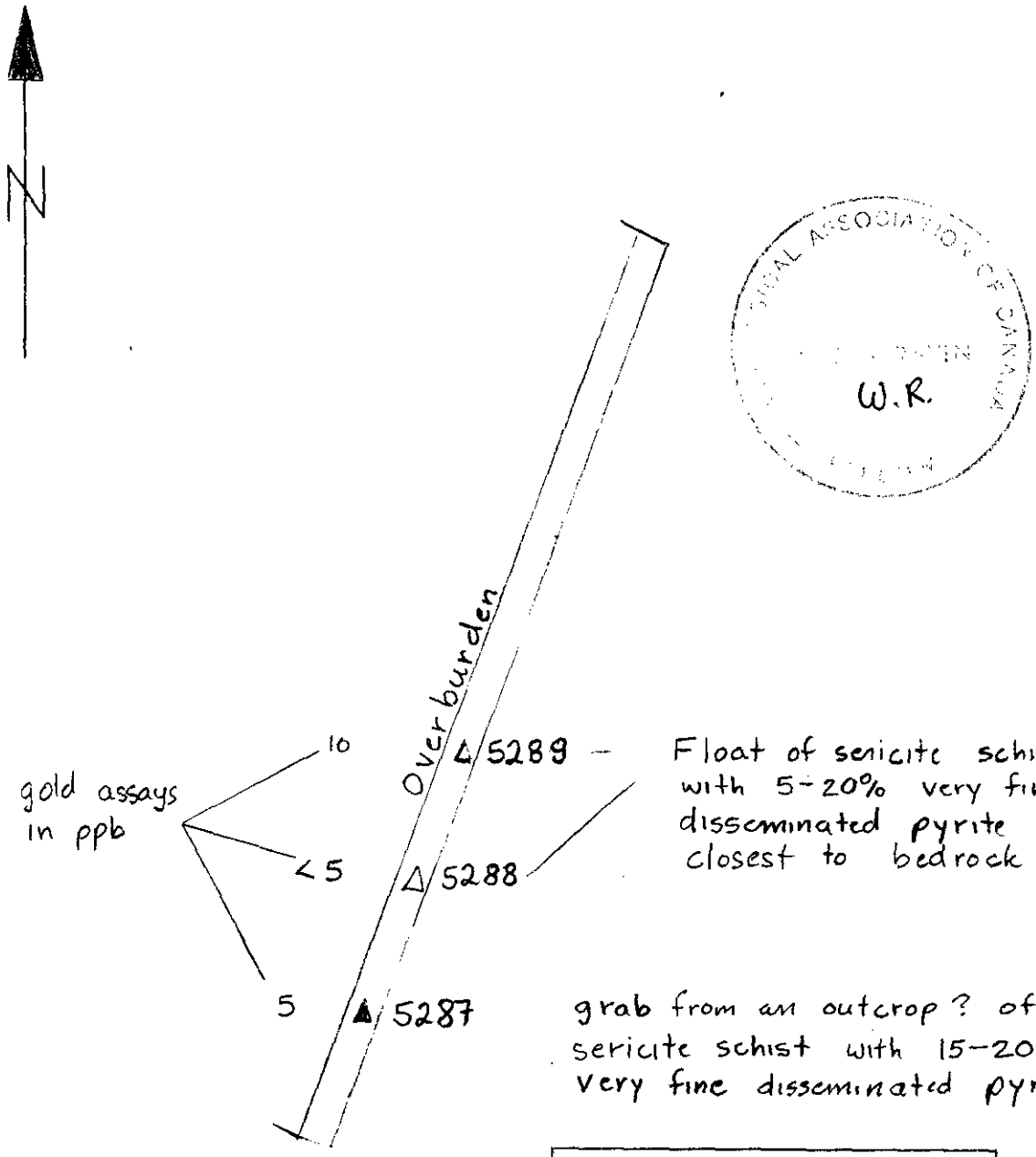


Scale 1:100

0 1 2 3 4 5m

TANTALUS RESOURCES LTD
Treaty Creek Project Figure No. 16
TREATY GOSSAN CHIP LINE # 10
British Columbia NTS 104 B/9E

W.R.



GEOLOGICAL ASSOCIATION OF CANADA
W.R.

TANTALUS RESOURCES LTD

Treaty Creek Project

Figure No. 17

TREATY GOSSAN

TRENCH TR-92-11

British Columbia

NTS 104 B 19E

this structure and intersect more of the quartz-pyrite-sericite schist alteration zone. Unfortunately, due to overburden depths in excess of 4 m, the trench failed to reach bedrock.

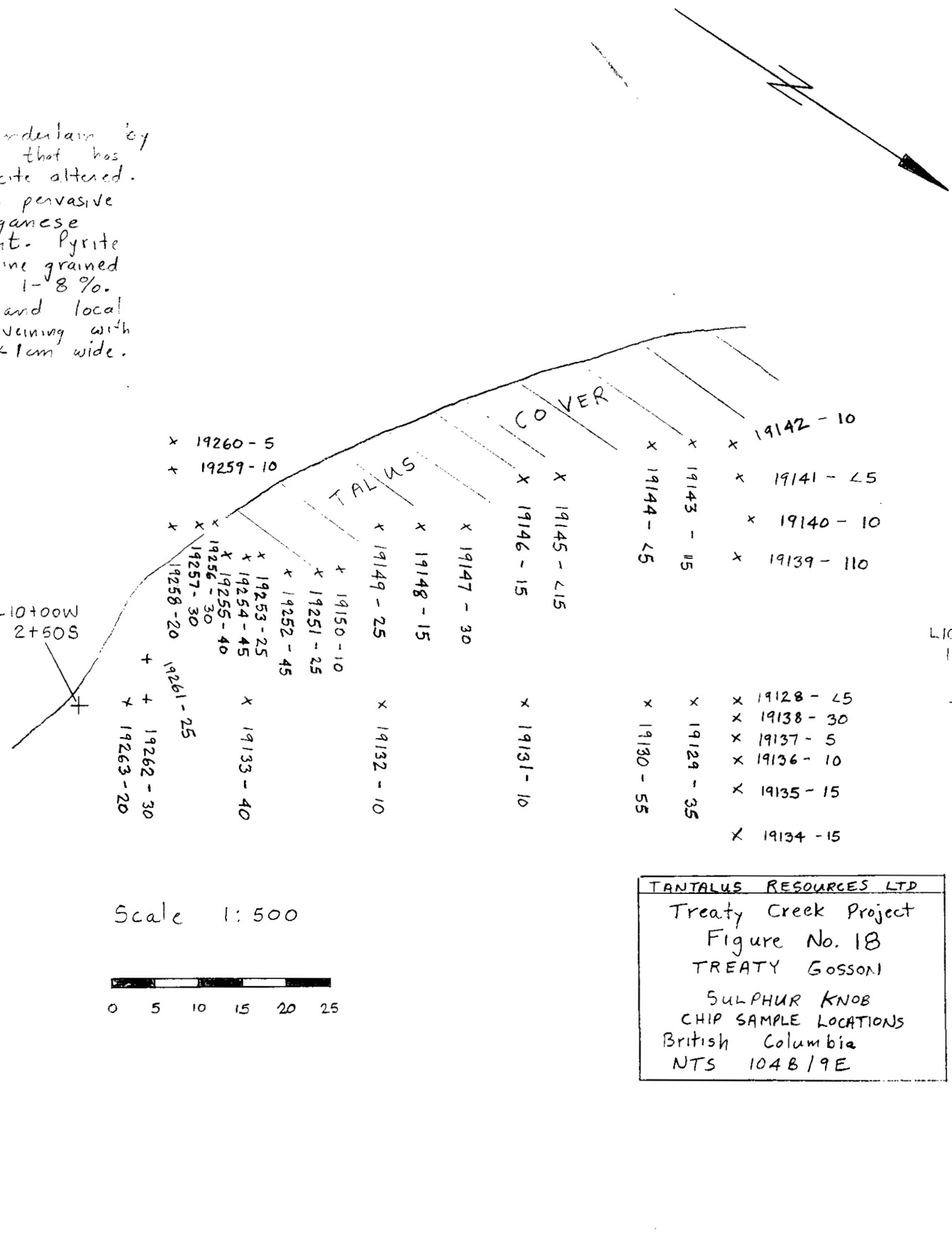
Sulphur Knob

The other main area of interest on Treaty Gossan, and still part of the quartz-sericite-pyrite alteration assemblage, is called Sulphur Knob, a prominent, highly weathered and limonitic hill between lines 9W and 11W. A total of 57 chip samples were obtained from this area (Figure 18), which does not include those taken from trenches 6A and 6B, and chip line 13. Gold results were up to 75 ppb, with one anomalous silver value of 14 ppm, copper values ranged from <1 to 111 ppm, lead ranged from <5 to 859 ppm, zinc from 3 to 777 ppm, and arsenic from 5-135 ppm. The anomalous lead and zinc values correlate well with a 20 x 30 m area containing quartz stockwork veining.

The two dynamited trenches in this area, trenches 6A & 6B, (Figure 19) were emplaced over a strongly foliated rock that in part resembles the typical Treaty Gossan quartz-sericite-pyrite schist, and also the laminated quartz-alunite-pyrite rock which comprises the Orpiment Zone, (described below). Base metal results from both these trenches were low, with an isolated high of 320 ppm lead from trench 6A, which corresponded to the highest gold assay of 0.032 oz/ton. Three other samples from this trench assayed from 150-250 ppb gold.

W.R.

All samples are underlain by porphyritic andesite that has been strongly sericite altered. Limonite stain is pervasive with minor manganese stain also present. Pyrite is present as fine grained disseminations from 1-8%. Locally foliated and local quartz stockwork veining with veins generally < 1cm wide.



Scale 1:500

0 5 10 15 20 25

TANTALUS RESOURCES LTD
Treaty Creek Project
Figure No. 18
TREATY GOSSON
SULPHUR KNOB
CHIP SAMPLE LOCATIONS
British Columbia
NTS 104B/9E

a) Feldspar porphyritic andesite completely replaced by sericite with extremely fine grained pyrite averaging 5-10%. Unit is foliated throughout and minor malachite stain present throughout

b) Feldspar porphyritic andesite completely replaced by sericite with extremely fine grained pyrite averaging 15-20%. Minor malachite stain, alunite on fractures.

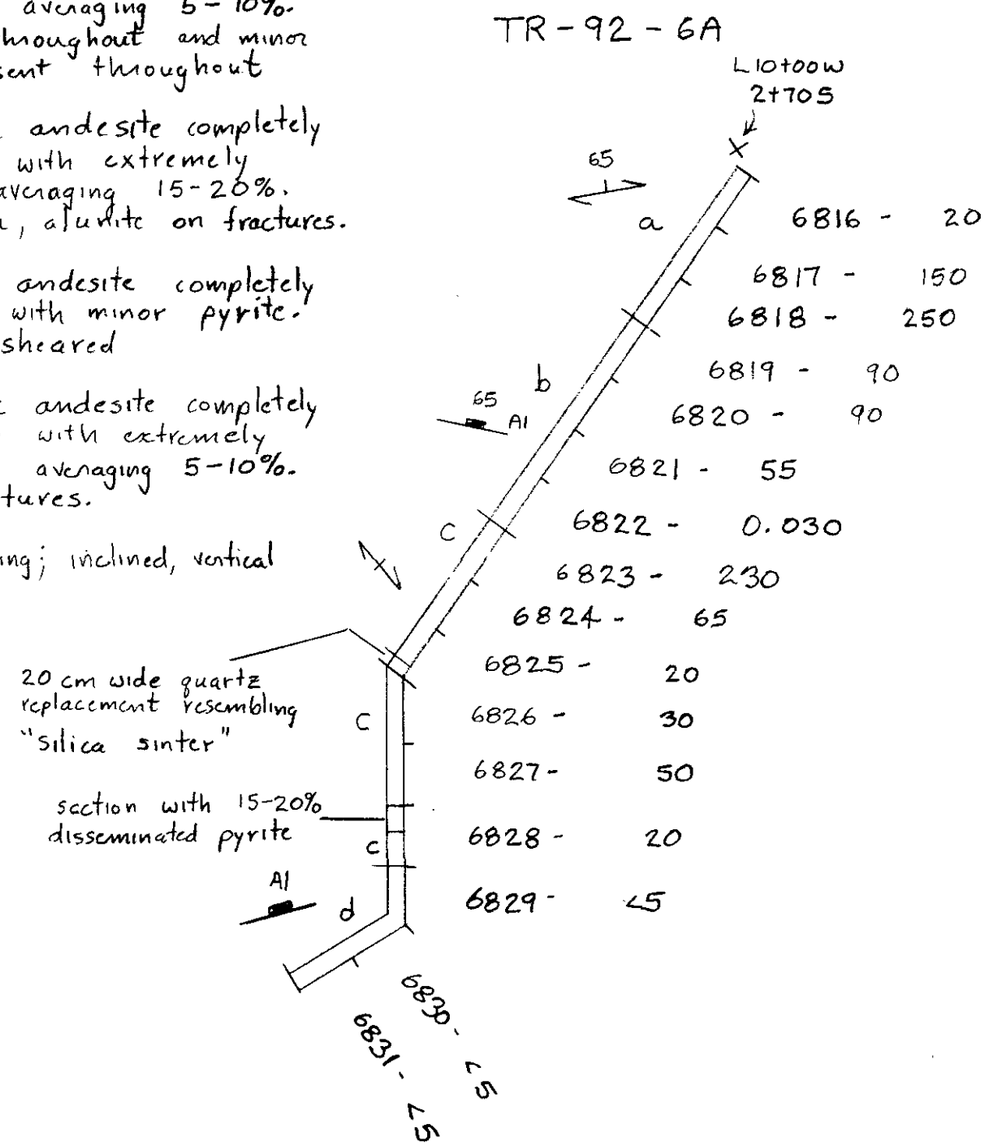
c) Feldspar porphyritic andesite completely replaced by sericite with minor pyrite. Rock is moderately sheared

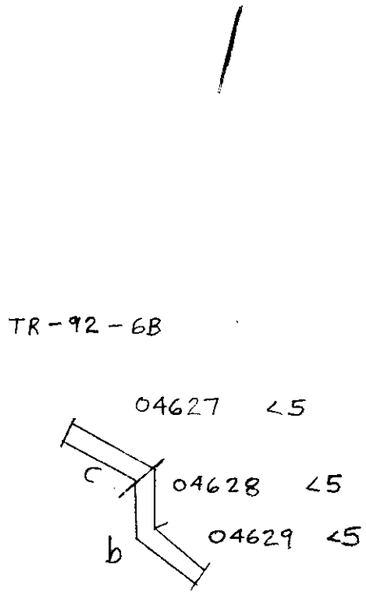
d) Feldspar porphyritic andesite completely replaced by sericite with extremely fine grained pyrite averaging 5-10%. Alunite on fractures.

65 — foliation or shearing; inclined, vertical
65 — fracture

Al = Alunite

6816 rock chip sample
20 gold assay in ppb
0.030 gold assay in oz/ton.





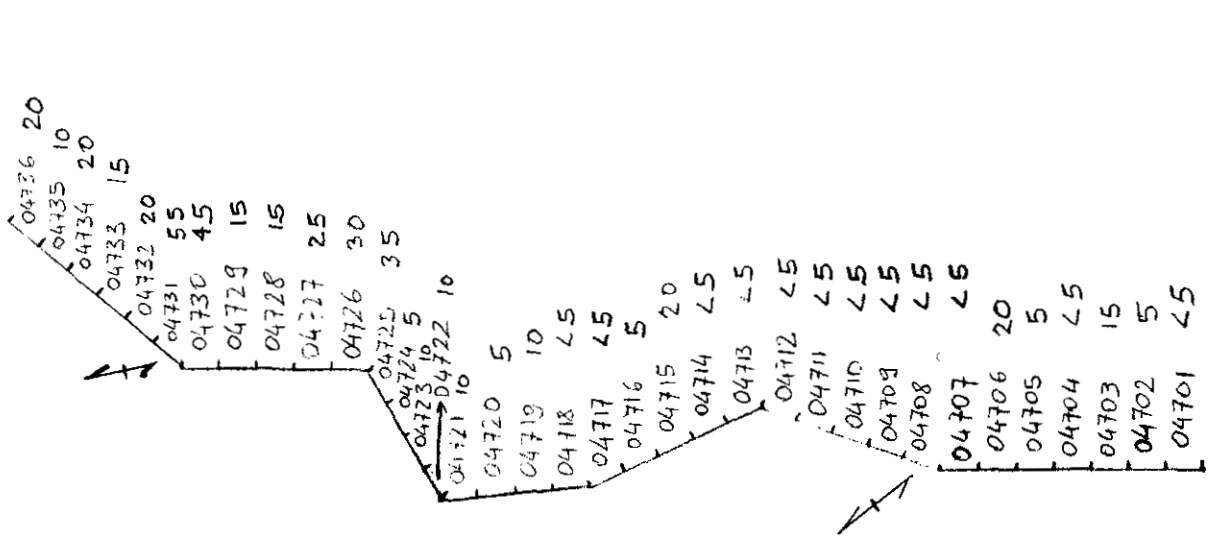
N

W.R.

SCALE 1:100

0 1 2 3 4 5m

TANTALUS RESOURCES LTD
Treaty Creek Project
Figure No. 19
TREATY GOSSAN
SULPHUR KNOB
TRENCHES TR-92-6A+6B
British Columbia
NTS 104B/9E



x Station 11+00W, 1+00S

The whole interval consists of feldspar porphyritic andesite completely replaced by sericite with variable pyrite content up to 20%. Pyrite occurs as very fine disseminated grains, its is more abundant in the eastern portion of the chip line. Texture is massive to foliated or schistose. The rock is cut by irregular quartz veins up to 1cm wide which occasionally carry limonite. The veins are mostly in the western portion of the chip line.

Scale 1: 200

0 1 2 3 4 6 8

W.R.

TANTALUS RESOURCES LTD

Treaty Creek Project
Figure No. 20
TREATY GOSSAN
SULPHUR KNOB
CHIP LINE # 13
British Columbia
NTS 104B/9E

Chip line 13 is the last area sampled close to Sulphur Knob (Figure 20). Gold results were low, ranging from <5 to 55 ppb, silver was also low ranging from <1 to 2 ppm. Base metal results, with the exception of copper, were slightly anomalous, with lead values were between 17-182 ppm, including six samples of $\geq$ 100 ppm, and zinc values were between 30 and 315 ppm, including five samples of $\geq$ 200 ppm.

General Grid Samples

The remaining 86 samples collected on the Treaty Gossan area were obtained throughout the grid area with three general "groupings" of samples. The following discussion of the results from these groups is given below from east to west. All samples are of limonitic quartz-sericite-sericite schist of the Treaty Gossan (Figure 6).

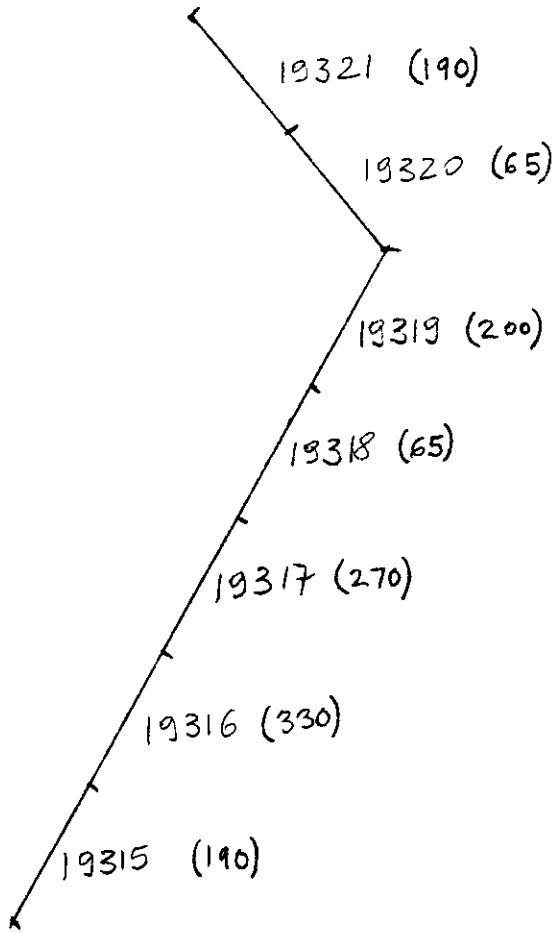
The first, more easterly area lies between 13+50W to 14+50W and 3+00S to 3+50S. Gold assays from this group are low, ranging from 5-65 ppb, silver ranges from <1 to 3 ppm. Base metal results are similarly low, with highs of 11 ppm copper, 49 ppm lead, and 148 ppm zinc. The second area occurs between 13+50W to 15+00W and 1+75S to 2+50S. Results from this area are similar to those from the first, with highs of only 40 ppb gold, 1 ppm silver, 112 ppm copper, and 303 ppm zinc. Sample #19127 from this area returned an anomalous titanium value of 2667 ppm. From the third area a discontinuous chip line was completed between 17W to 18W and 0+50S to 1+25S. Assays from here include gold up to 85 ppb, silver up to 15 ppm, copper from 9-240 ppm, lead from <1-440 ppm and zinc from 15-240 ppm.

Numerous other samples were obtained throughout the grid area but did not yield any significant results in precious or base metals.

X-1 and X-2 Zones

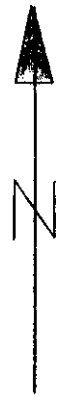
These two zones are located off the grid on the western most portion of the Treaty Gossan close to the Treaty Glacier (Figure 6). Chip line X-1 (Figure 21), located closest to the grid area near L16+00W, 6+75N, is underlain by andesite pyroclastics completely replaced by sericite and quartz with up to 5% pyrite as disseminated cubes and lessor blebs. Precious metal results from this zone were somewhat more encouraging. Seven samples were collected with gold assays ranging between 65 and 330 ppb; of these samples five were $\geq$ 190 ppb gold. Silver values are also higher ranging from 4-20 ppm. The base metal results are very low, with highs of only 66 ppm copper, 130 ppm lead, and 22 ppm zinc.

Chip line X-2 is northwest of line X-1, and well off the grid area (Figure 22). It was taken across a small, fault bounded block of pyrite cemented argillite breccia, itself within heavily silicified, and sericitized andesitic rocks. Chip line X-2 yielded some highly anomalous results especially in silver with the two samples, 19323 and 19324 assaying 180 and 110 ppm silver respectively. Gold assays for these two samples are 620 and 440 ppb respectively. Copper values are low, lead assays are 350 and 310 ppm and zinc values are 240 and 460 ppm respectively.



All samples are of andesite pyroclastics completely replaced by sericite and quartz, massive texture, up to 5% pyrite as disseminated cubes, and lesser small blebs.

19317 - rock chip sample location
(270) - gold assay in ppb.



SCALE 1 : 100

0 1 2 3 4 m

W.R.

Station L16+00W, 6+75N

TANTALUS RESOURCES LTD

Treaty Creek Project

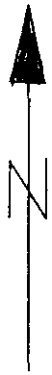
Figure No. 21

TREATY GOSSAN

CHIP LINE X - 1

British Columbia

NTS 104 B/9E



LEGEND

1 - Pyrite cemented argillite breccia, pyrite is very fine grained and averages 15-20%

2 - Strongly silicified and sericitized andesitic rocks, minor pyrite

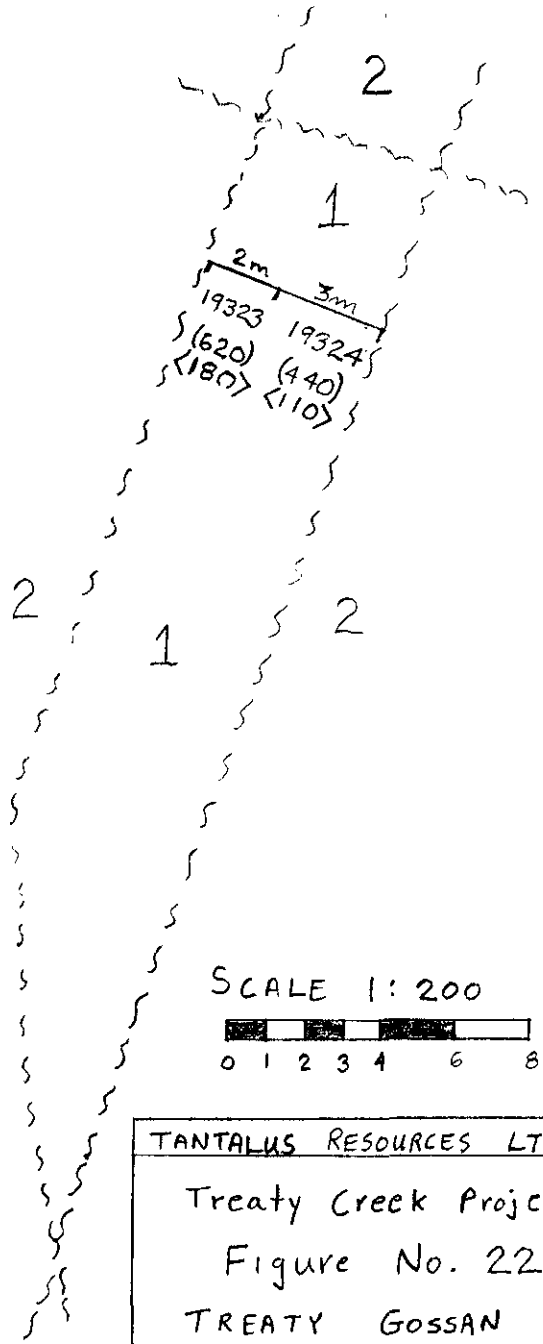
~~~ fault

19325 rock chip sample location

(620) gold assay in ppb

<110> silver assay in ppm

2m length of chip sample




SCALE 1:200

0 1 2 3 4 6 8m

W.R.

TANTALUS RESOURCES LTD

Treaty Creek Project

Figure No. 22

TREATY GOSSAN

CHIP LINE X-2

British Columbia

NTS 104B/9E
~~~

East Treaty Dilworth

The East Treaty Dilworth area (Figure 6) was the subject of considerable surficial sampling and hand trenching. For this report the area considered to be "East Treaty Dilworth" is that portion of the grid east of line 6W to L0 on the grid and east of the grid downhill to the South Treaty Glacier. A total of six chip lines (numbers 6, 7, 8, 11, 14, 15) and six trenches (TR-92 - 1, 2, 7, 8, 9, 10) were completed. Additionally, numerous short chip samples were collected from various points within this area.

Limited sampling of rhyolitic volcanic rocks in previous years had yielded local, weakly anomalous gold assays. The program this year attempted to locate and sample rocks at or near the interpreted Mt. Dilworth-Salmon River Formation contact. Four main areas of interest underlain by rhyolitic and/or argillaceous rocks were trenched and/or chip sampled that may be Dilworth and Salmon River rocks respectively.

The first area is proximal to the baseline between 4+50W to 5+50W and consists of trenches 1 and 2 and chip line 11 (Figures 23, 24, 25). Siliceous and sericitic sheared felsic volcanic rock occurs in small outcrops exposed in a small creek. No significant results were received from the trenches or the chip line and trench 2 failed to reach bedrock. Assays include highs of 35 ppb gold, 1 ppm silver, 45 ppm copper, 110 ppm lead, 240 ppm zinc and 85 ppm arsenic.

W.R.

LEGEND

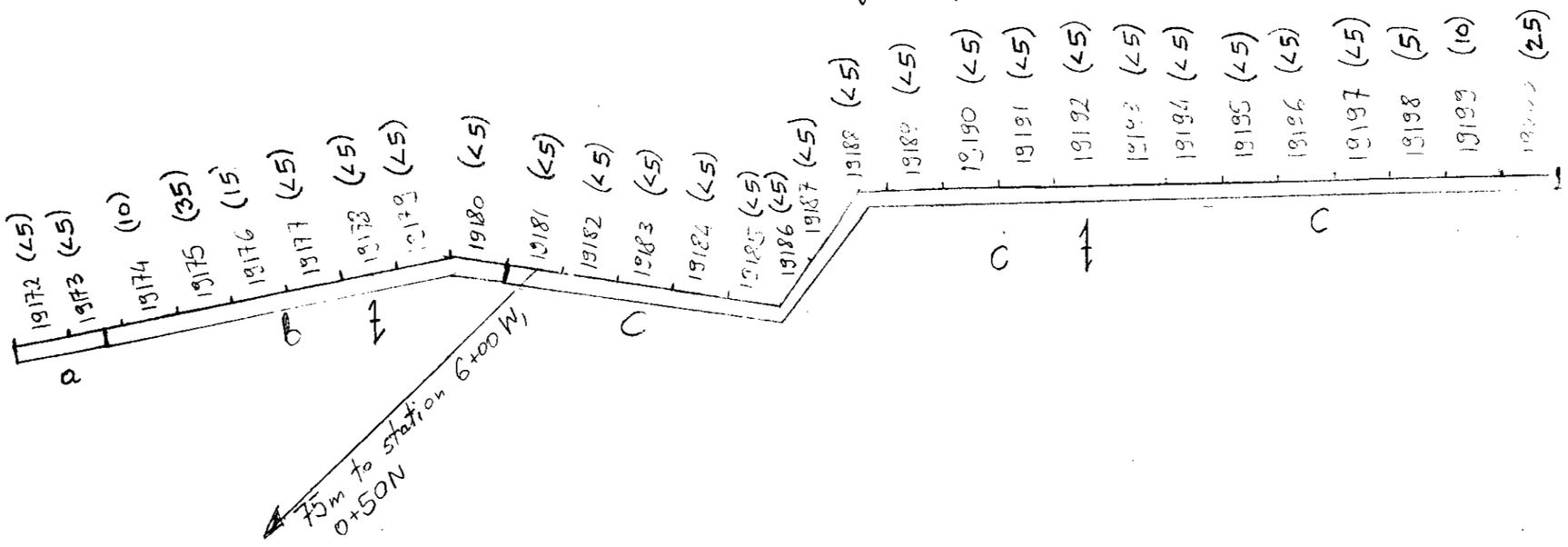
a – Feldspar porphyritic andesite completely replaced by sericite and calcite, massive texture, no visible sulphides

b – sericite schist with up to 10% very fine grained disseminated pyrite.

c – Feldspar porphyritic andesite completely replaced by sericite with up to 5% very fine grained disseminated pyrite, massive texture but locally foliated.

✓ schistosity - inclined

19172 rock chip sample
(<5) gold assay in ppb



Scale 1: 100

0 1 2 3 4 5 6 m

TANTALUS RESOURCES LTD
Treaty Creek Project
Figure No. 23
EAST TREATY DILWORTH
TRENCH TR-92-1
British Columbia
NTS 104 B/9E

TR-92-2

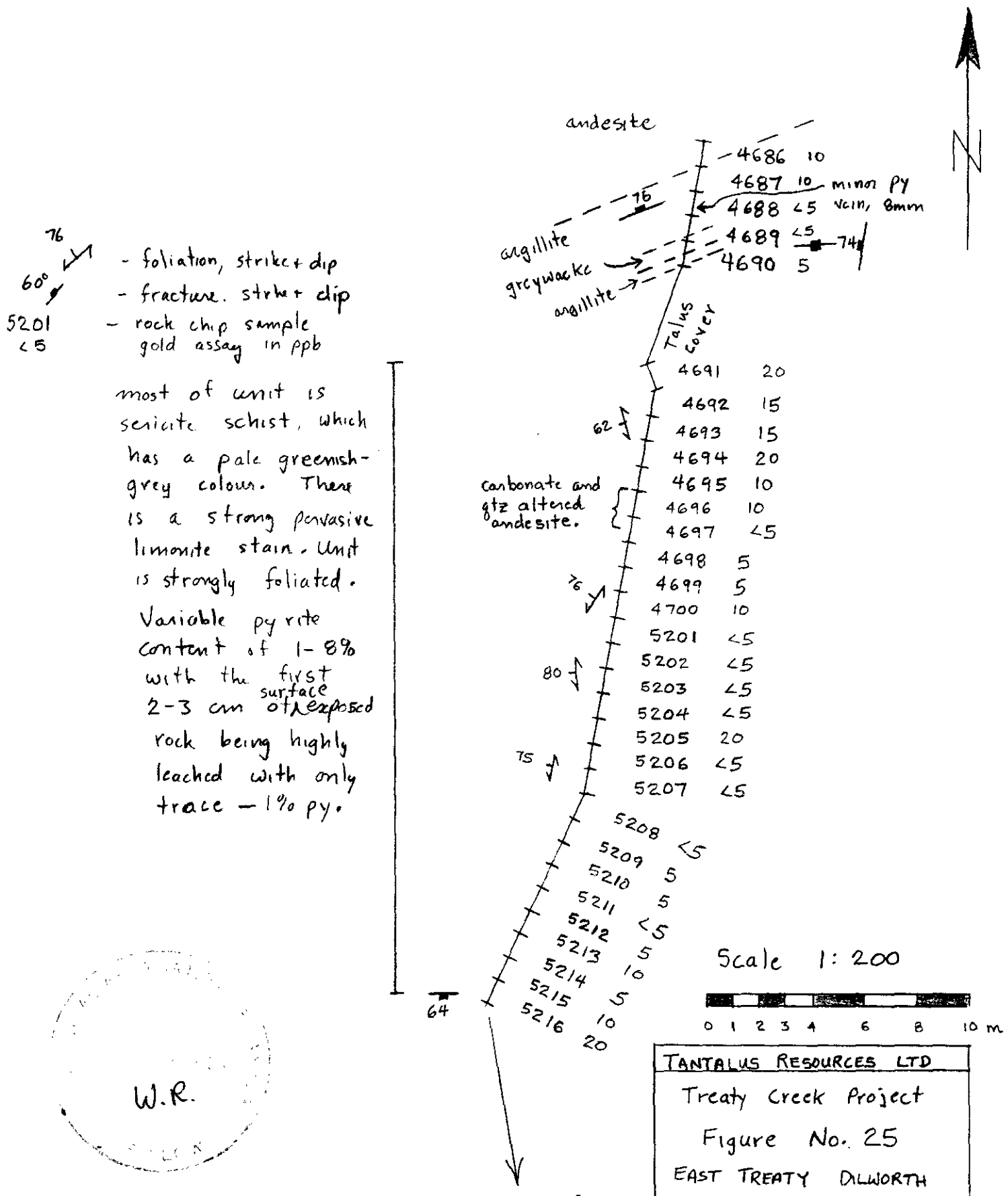
Entire trench is overburden, no samples taken as no bedrock was encountered!

BLO
5+50W

Scale 1:100

0 1 2 3 4 5 6 m

TANTALUS RESOURCES LTD
Treaty Creek Project Figure No. 24
EAST TREATY DILWORTH TRENCH TR-92-2
British Columbia NTS 104B/9E


76
- foliation, strike + dip
60°
- fracture. strike + dip
5201
<5
- rock chip sample
gold assay in ppb
most of unit is sericite schist, which has a pale greenish-grey colour. There is a strong pervasive limonite stain. Unit is strongly foliated.
Variable pyrite content of 1-8% with the first 2-3 cm of surface exposed rock being highly leached with only trace - 1% py.
andesite
argillite
greywacke
argillite
76
Talus cover
62
carbonate and qtz altered andesite.
76
80
75
64
4686 10
4687 10 minor py vein, 8mm
4688 <5
4689 <5
74
4690 5
4691 20
4692 15
4693 15
4694 20
4695 10
4696 10
4697 <5
4698 5
4699 5
4700 10
5201 <5
5202 <5
5203 <5
5204 <5
5205 20
5206 <5
5207 <5
5208 <5
5209 5
5210 5
5211 <5
5212 5
5213 10
5214 5
5215 10
5216 20
23m @ 171°
to BLO;
5+00W
N
Scale 1: 200
0 1 2 3 4 6 8 10 m
TANTALUS RESOURCES LTD
Treaty Creek Project
Figure No. 25
EAST TREATY DILWORTH
CHIP LINE # 11
British Columbia
NTS 104B/9E
W.R.

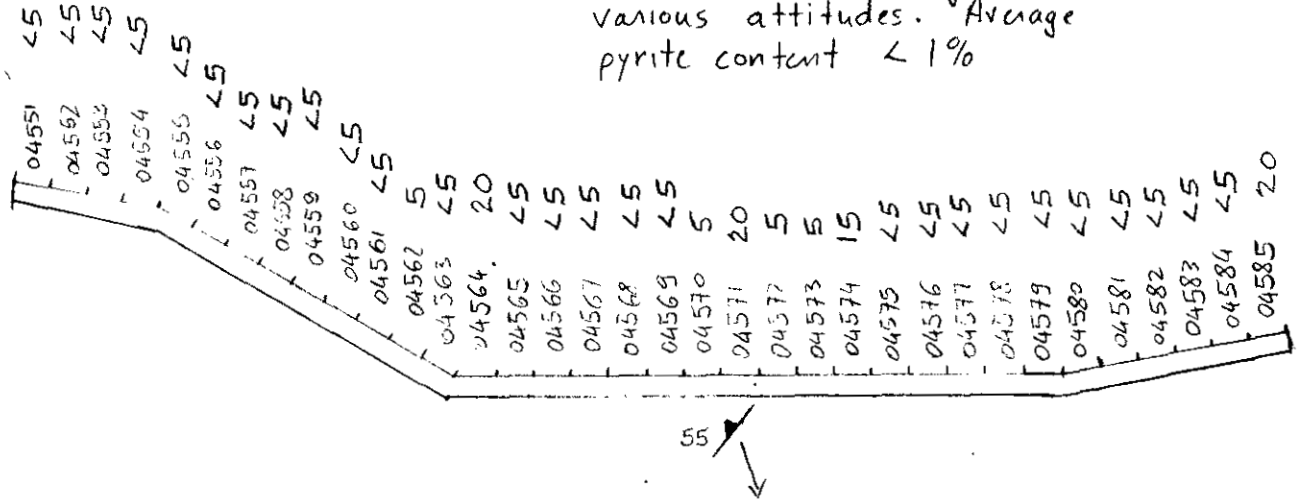
The second area, with trenches 8, 9, and 10 occurs between 2+75W to 3+75W and 1+00N to 1+50N. This area is not underlain by the Mount Dilworth Formation, and most of the targets were small, rusty outcrops that had yielded weakly elevated gold assays from samples collected during previous programs. Trench 8 (Figure 26) was blasted over an iron-carbonate, quartz stockwork zone with individual veins up to 10 to 20 cm wide containing minor pyrite, trace to 1% chalcopyrite and galena in calcite-sericite altered andesite lithic tuff. Highest results were: gold 20 ppb, silver all <1 ppm, copper 210 ppm, lead 970 ppm, and zinc 1,600 ppm.

Trench 9 (Figure 27) exposed a small band of argillite within calcite-sericite altered andesite lithic tuff. Assays from the argillite were up to 100 ppb gold, copper to 120 ppm, lead to 65 ppm and zinc to 330 ppm.

Trench 10 (Figure 28) is underlain by highly fractured, calcite-sericite altered andesite tuff with pyrite and limonite on the fractures. There is a 50 cm wide calcite-pyrite cemented breccia containing some 20 to 30% pyrite. Assays from this trench were low though titanium values, were anomalous ranging from 1,100-1,400 ppm.

The third area of interest lies between 1+00W to 1+50W, and 0+25N to 0+50S and consists of trench 7 and chip line 8. Both were previously thought to be underlain by rhyolitic volcanic rocks. However geological mapping in 1992 has indicated the rocks are highly silicified and sericitic andesitic tuffs. Trench 7 (Figure 29)

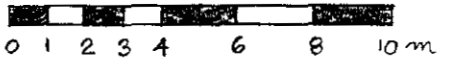
All samples are of moderately to strongly calcite - sericite altered andesite lithic tuff. Minor calcite veining at various attitudes. Average pyrite content < 1%



2-5 mm wide chalcopyrite - galena vein

04551 rock chip sample
<5 gold assay in ppb

Scale 1: 200



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Treaty Creek Project

Figure No. 26

EAST TREATY DILWORTH TRENCH TR-92-8

British Columbia

NTS 104B/9E

× 3+50W, 0+75N

LEGEND

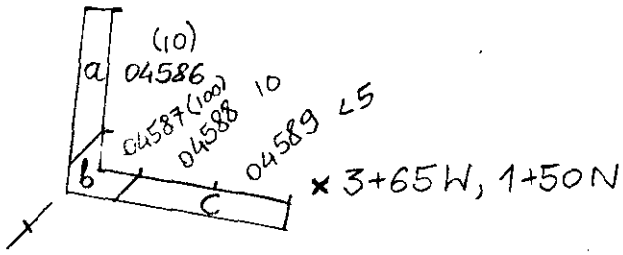
a) strongly calcite-sericite altered andesite lithic tuff with 1-3% blebby pyrite

b) black argillite to siltstone, limonitic

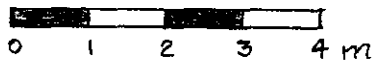
c) moderately calcite-sericite altered andesite lithic tuff tuff, minor calcite veining, <1% pyrite

/ bedding, vertical

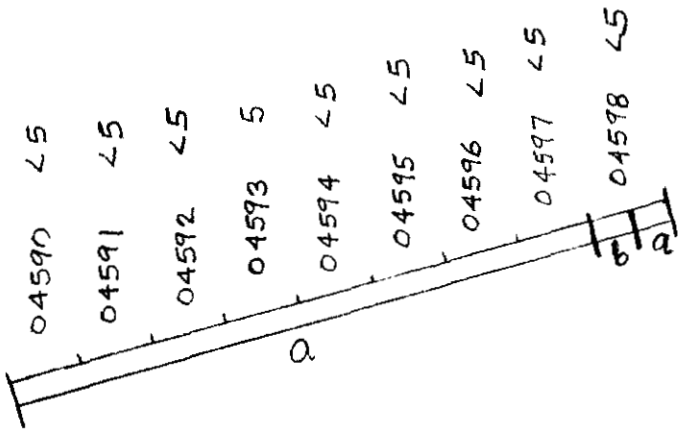
04586 (10) rock chip sample gold assay in ppb



Scale 1 : 100



TANTALUS RESOURCES LTD
Treaty Creek Project
Figure No. 27
EAST TREATY DILWORTH
TRENCH TR-92-9
British Columbia
NTS 104B/9E



× 3+00 N, 1+00 N

LEGEND

a) Moderately to strongly calcite - sericite altered andesite tuff. Unit is strongly but irregularly fractured with pyrite and/or limonite on some of the fractures. Overall pyrite content is 1-2%.

b) Calcite - pyrite cemented breccia, 20-30% pyrite.

04590 rock chip sample location
5 gold assay in ppb.

Scale 1: 100

0 1 2 3 4 m

TANTALUS RESOURCES LTD.
Treaty Creek Project
Figure No. 28
EAST TREATY DILWORTH
TRENCH TR-92-10
British Columbia
NTS 104B/9E

LEGEND

a) Andesitic tuff strongly sericitized, < 1% pyrite

b) Fine grained diorite, strongly sericitized, minor limonite

c) Andesite tuff, very strongly sericitized, foliated, some limonite and hematite

d) Mudstone/siltstone locally silicified, minor pyrite, in places limonitic

e) Andesite lithic tuff, moderately sericitized minor pyrite

f) Mixed, andesite - dacite lapilli tuff, strongly sericitized

g) Andesite tuff, strongly sericitized, minor limonite

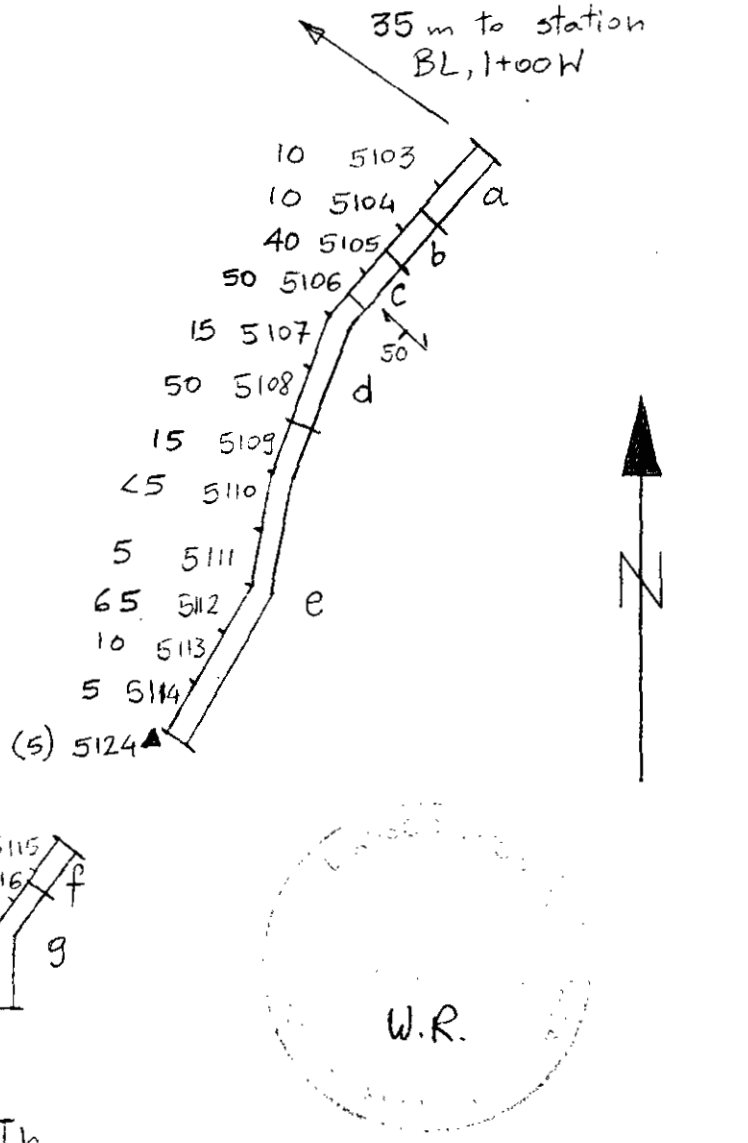
h) Andesite lithic tuff moderately sericitized, minor pyrite

i) Andesite lapilli - tuff, very strongly sericitized and locally silicified with 5-7% disseminated to blebby pyrite.

50 Foliation

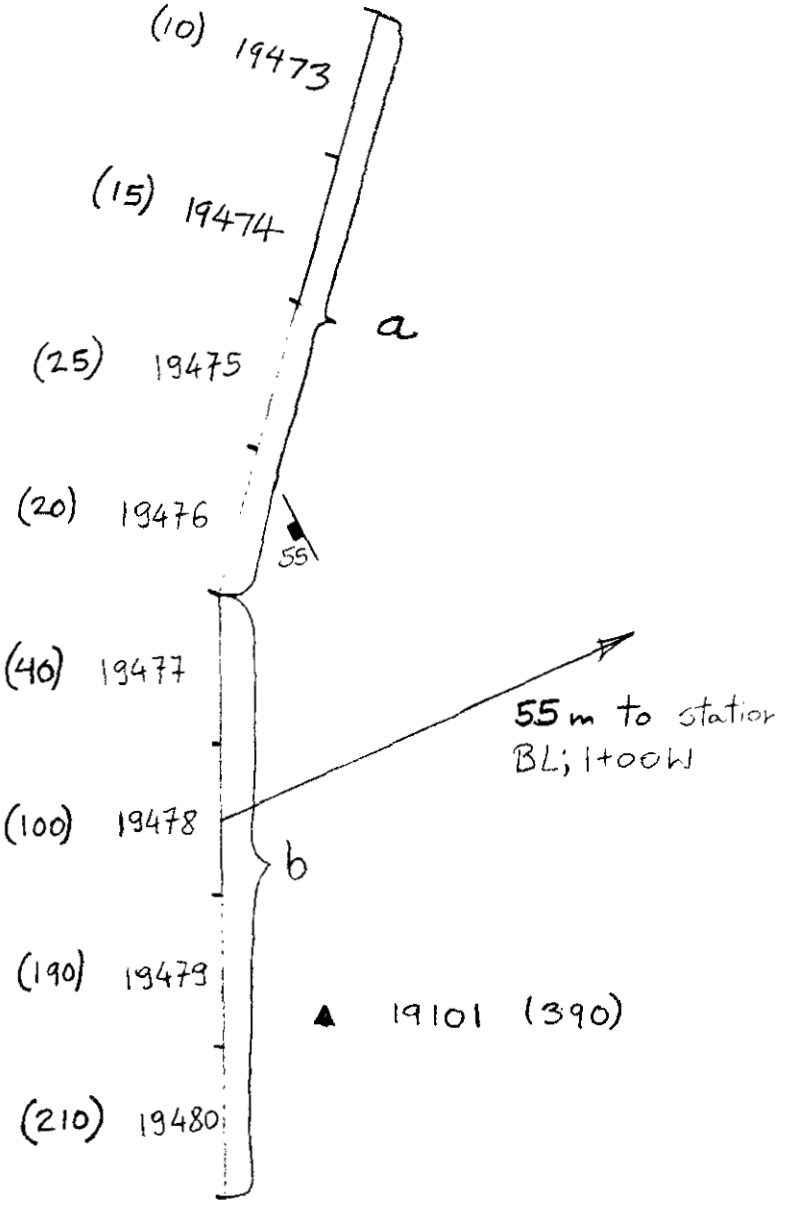
▲ grab sample

5120 - chip sample location
20 - gold assay in ppb



TANTALUS RESOURCES LTD
Treaty Creek Project Figure No. 29
EAST TREATY DILWORTH TRENCH TR-92-7
British Columbia NTS 104 B/9E

W.R.



LEGEND

a) Andesite tuff, completely pyrite - quartz - sericite altered, 5-7% fine disseminated pyrite, limonite on fractures

b) Andesite tuff, strongly to completely altered to sericite, quartz, and carbonates, 5-15% disseminated pyrite, some limonite

/ 55 fracture

19479 (190) - rock chip sample gold assay in ppb

▲ (390) - rock grab sample with gold assay in ppb

Scale 1:100

0 1 2 3 4 5 m

TANTALUS RESOURCES LTD.

Treaty Creek Project

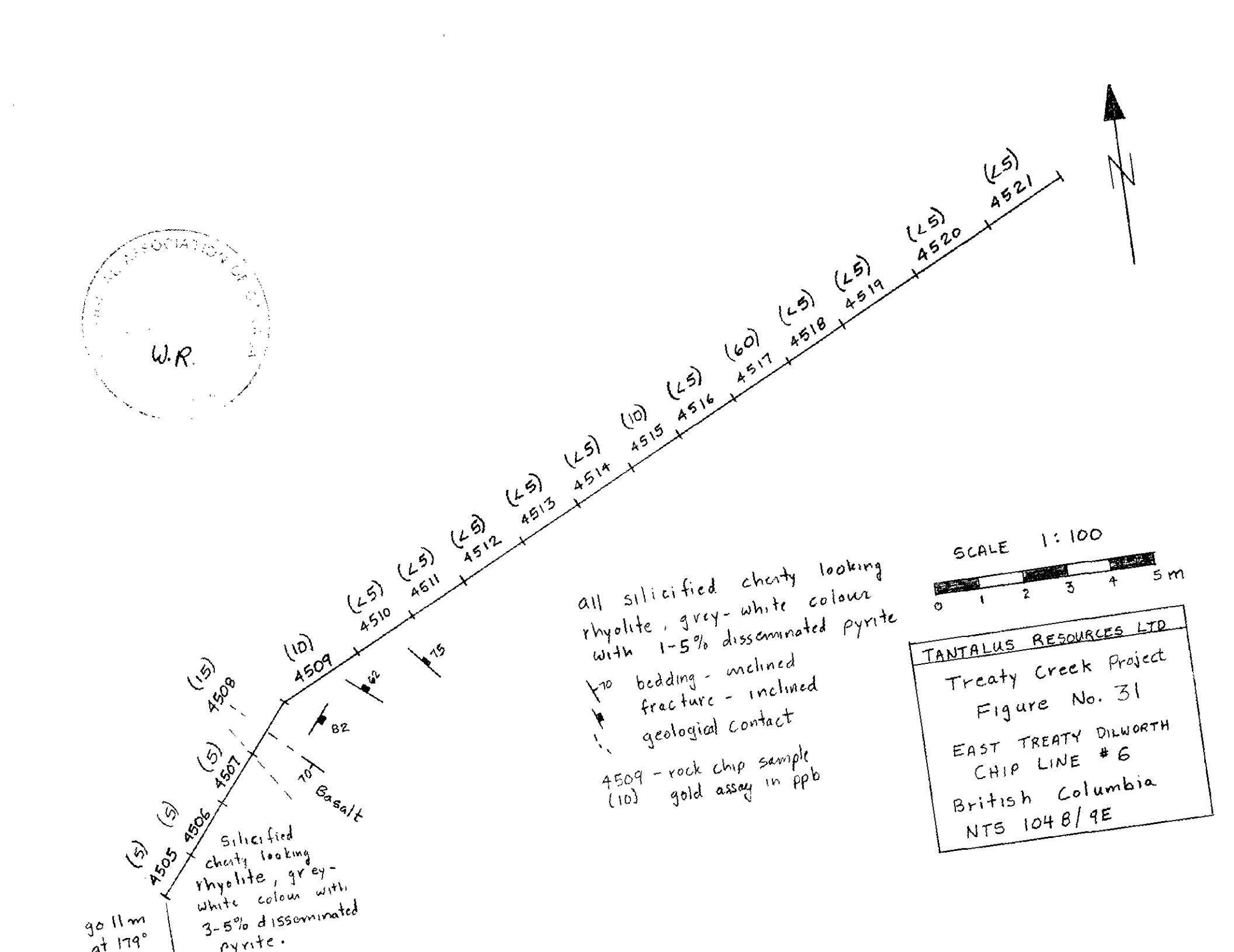
Figure No. 30

EAST TREATY DILWORTH

CHIP LINE # 8

British Columbia

NTS 104B/9E


W.R.
(5) 4505
(5) 4506
(5) 4507
(15) 4508
(10) 4509
(<5) 4510
(<5) 4511
(<5) 4512
(<5) 4513
(<5) 4514
(10) 4515
(<5) 4516
(60) 4517
(<5) 4518
(<5) 4519
(<5) 4520
(<5) 4521
N
B2
70
15
62
Basalt
Silicified chalky looking rhyolite, grey-white colour with 3-5% disseminated pyrite.
go 11 m at 179°
all silicified chalky looking rhyolite, grey-white colour with 1-5% disseminated pyrite
70 bedding - inclined
fracture - inclined
geological contact
4509 - rock chip sample
(10) gold assay in ppb
SCALE 1:100
0 1 2 3 4 5 m
TANTALUS RESOURCES LTD
Treaty Creek Project
Figure No. 31
EAST TREATY DILWORTH CHIP LINE # 6
British Columbia
NTS 104 B/9E

W.R.

N

intense silicification

moderate silicification

Greenish coloured felsic volcanics. Moderate to strong limonite staining and minor manganese? staining. Contains 5-10% fine grained disseminated pyrite

70 fracture, inclined

60 strike + dip of geological contact

19448 rock chip sample

(20) gold assay in ppb

19088 (75)

19089 (45)

Vesicular Basalt to dioritic intrusion.

60

19090 (45)

19091 (30)

75

64

(20) 19092

19093 (5)

19094 (5)

19095 (<5)

72

19096 (<5)

72

19097 (<5)

56

19098 (15)

19099 (5)

19100 (40)

19448 (20)

19449 (15)

19450 (35)

30

19447 (<5)

54

4501 (5)

80

4502 (10)

Vesicular basalt? Olive green colour, looks slightly clay altered

78

4503 (20)

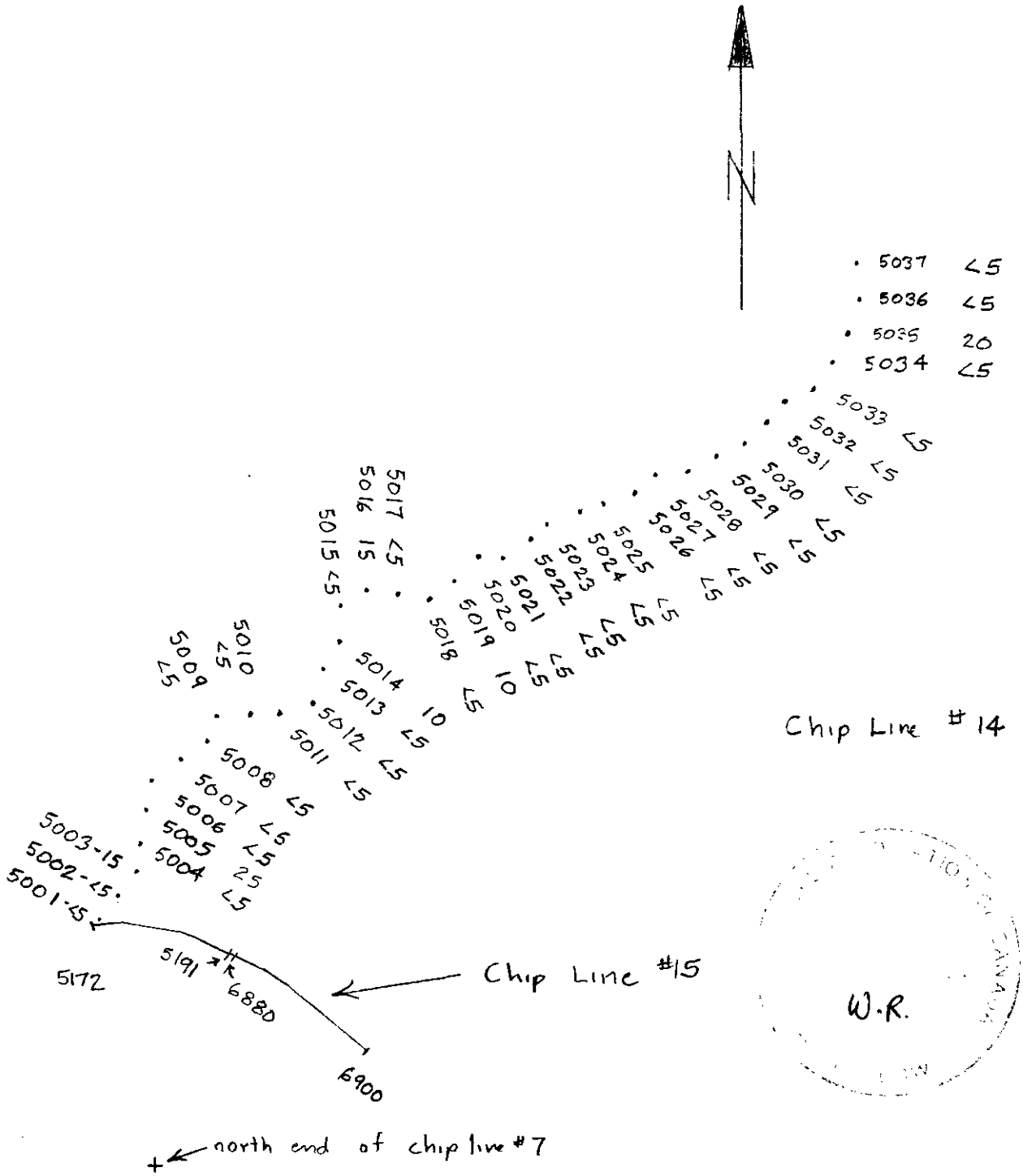
4504 (10)

go 17m e 185° to LO, 1+00S

Scale 1:100

0 1 2 3 4 5 m

TANTALUS RESOURCES LTD
Treaty Creek Project
Figure No. 32
EAST TREATY DILWORTH
CHIP LINE # 7
British Columbia
NTS 104 B/9E



5003 - rock chip sample location
15 - gold assay in ppb

all samples are 1.0 m chips from highly silicified and locally flow banded rhyolite containing 5-10% fine grained disseminated pyrite

Scale 1: 1000

0 5 10 15 20 30 40 m

TANTALUS RESOURCES LTD
Treaty Creek Project
Figure No. 33
EAST TREATY DILWORTH
CHIP LINES #14 & 15
British Columbia
NTS 104B/9E

returned up to 100 ppb gold, 8 ppm silver, 63 ppm copper, 102 ppm lead, 412 ppm zinc and 155 ppm arsenic. Silver and zinc values were highest over the northern half of the trench, titanium assays are consistently higher over the southern half of the trench with values ranging from 727-1969 ppm. Chip line 8 (Figure 30) yielded up to 210 ppb gold, 7 ppm silver, 140 ppm copper, 80 ppm lead, and 260 ppm zinc.

The fourth area of interest in the East Treaty Dilworth area is located on the eastern edge of the grid and downslope to the South Treaty Glacier. This area is underlain by silicified, locally cherty looking, rhyolite, possibly locally flow banded. The terrain is extremely rugged, especially the descent to South Treaty Glacier. As a result, not all outcrops could be sampled. The rhyolite here often has a moderate rusty staining, though in some areas it is a chalky white colour. It contains variable quantities of pyrite ranging from 1-8%. Samples include chip lines 6, 7, 14 and 15 (Figures 31, 32 & 33). Argillite contacts could not be located, if they exist. There were no highly anomalous results from any of the chip lines. Gold assays ranged from <5-150 ppb, silver from <1-3 ppm, copper from 2-74 ppm, lead from 2-240 ppm, and zinc from 2-196 ppm. Of interest again may be the elevated titanium values which may distinguish the truly rhyolitic rocks - with relatively higher titanium contents - from the highly silicified andesites.

TR Claims

This area of interest is located on the north side of Treaty Glacier, in the border area between the TR-6 and TR-7 claims (Figure

Trench
TR-TR-92-4

Trench
TR-TR-92-1

Trench
TR-TR-92-2

Salmon River
Formation

Trench
Chip Line TR # 3

Chip Line TR # 4
(not contiguous samples)

Trench
TR-TR-92-3

Geological
Boundary

Chip Line TR # 2

MT. DILWORTH
FORMATION

Chip Line TR # 1

Chip Line TR # 4
(not contiguous samples)

Chip Line TR # 5

N

W.R.

Chip
Line # 6

Scale 1: 1000

0 5 10 15 20 30 40 50m

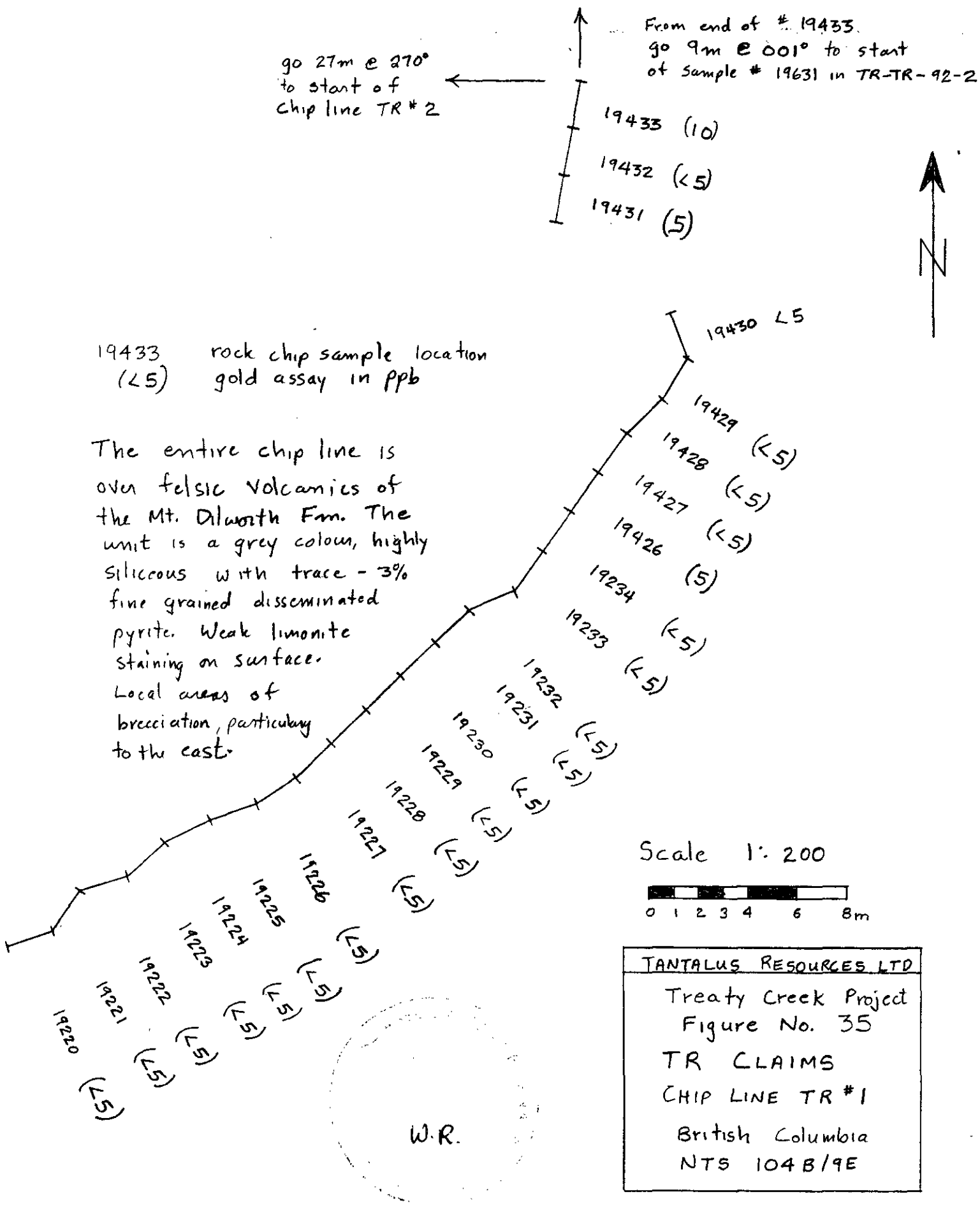
TANTALUS RESOURCES LTD
Treaty Creek Project
Figure No. 34
TR CLAIMS
TRENCH & CHIP LINE LOCATIONS
British Columbia
NTS 104B/9E

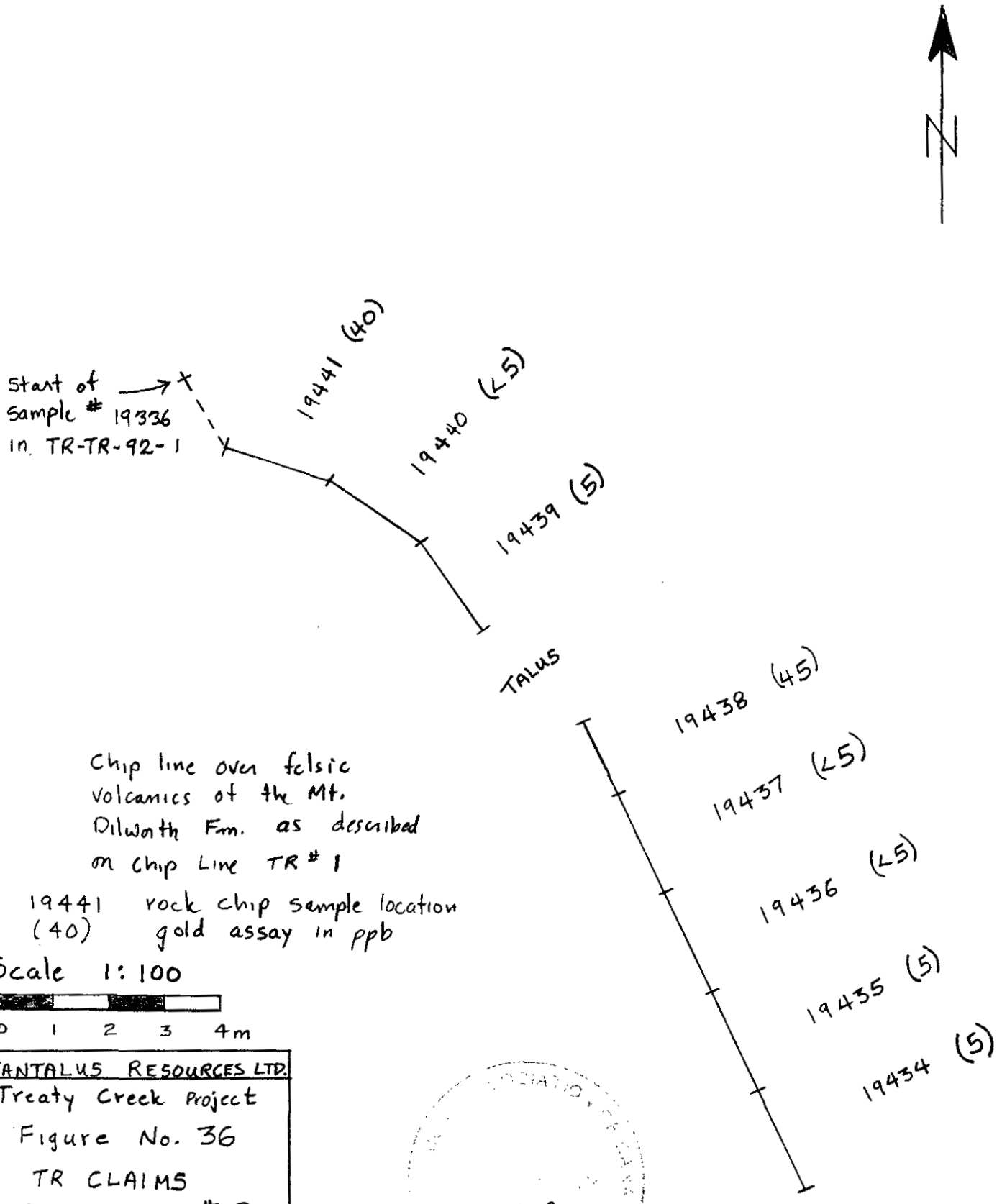
19292(45)

34. Here, a WNW-ESE running contact zone between the Mt. Dilworth and Salmon River Formations is relatively well exposed. Six chip lines (TR#1 - TR#6 inclusive) totalling 75 samples, generally 1.0 to 2.0 m in length, were completed. Of those, one line (TR#4) was located right on the Mt. Dilworth/Salmon River Formations contact, two lines (TR#1,TR#2) were taken over Mt.Dilworth Formation rocks, one (TR#3) over the Salmon River Formation, and two (TR#5,TR#6) were completed over rocks of Betty Creek Formation (Figures 35 to 39). Also a total of four dynamited trenches (TR-TR-92-1 - TR-TR-92-4) were completed to better expose the Mt.Dilworth/Salmon River Formations contact. A total of 113 samples were obtained from the trenches, all 1.0 m in length (Figures 40 to 43).

The Mt.Dilworth Formation here is comprised of very poorly sorted felsic volcanic breccias. The majority of fragments generally fall in the 0.5 - 4.0 cm range, though approximately 15-20% of the rock by volume is comprised of fragments between 4-10 cm in diameter. Occasionally fragments are up to 20 cm in diameter. The fragments are set in a matrix comprised of felsic fragments measuring 1-3 mm. The rock is strongly silicified, and locally sheared and contains up to 3% disseminated pyrite.

Rocks of the Salmon River Formation are represented by black, distinctively bedded argillites to siltstones locally fractured or sheared. The pyrite content of these latter rocks reaches 2%, mostly as disseminated grains and occasionally in 1-10 mm wide "massive" bands parallel to bedding. Some sections contain minor quartz and


From end of # 19433
go 9m @ 001° to start
of sample # 19631 in TR-TR-92-2
go 27m @ 270°
to start of
Chip line TR # 2
19433 (10)
19432 (<5)
19431 (5)
N
19433 rock chip sample location
(<5) gold assay in ppb
The entire chip line is
over felsic volcanics of
the Mt. Dilworth Fm. The
unit is a grey colour, highly
siliceous with trace - 3%
fine grained disseminated
pyrite. Weak limonite
staining on surface.
Local areas of
brecciation, particularly
to the east.
19430 <5
19429 (<5)
19428 (<5)
19427 (<5)
19426 (5)
19234 (<5)
19233 (<5)
19232 (<5)
19231 (<5)
19230 (<5)
19229 (<5)
19228 (<5)
19227 (<5)
19226 (<5)
19225 (<5)
19224 (<5)
19223 (<5)
19222 (<5)
19221 (<5)
19220 (<5)
W.R.
Scale 1: 200
0 1 2 3 4 6 8m
TANTALUS RESOURCES LTD
Treaty Creek Project
Figure No. 35
TR CLAIMS
CHIP LINE TR #1
British Columbia
NTS 104B/9E



Chip line over felsic volcanics of the Mt. Dilworth Fm. as described on Chip Line TR # 1

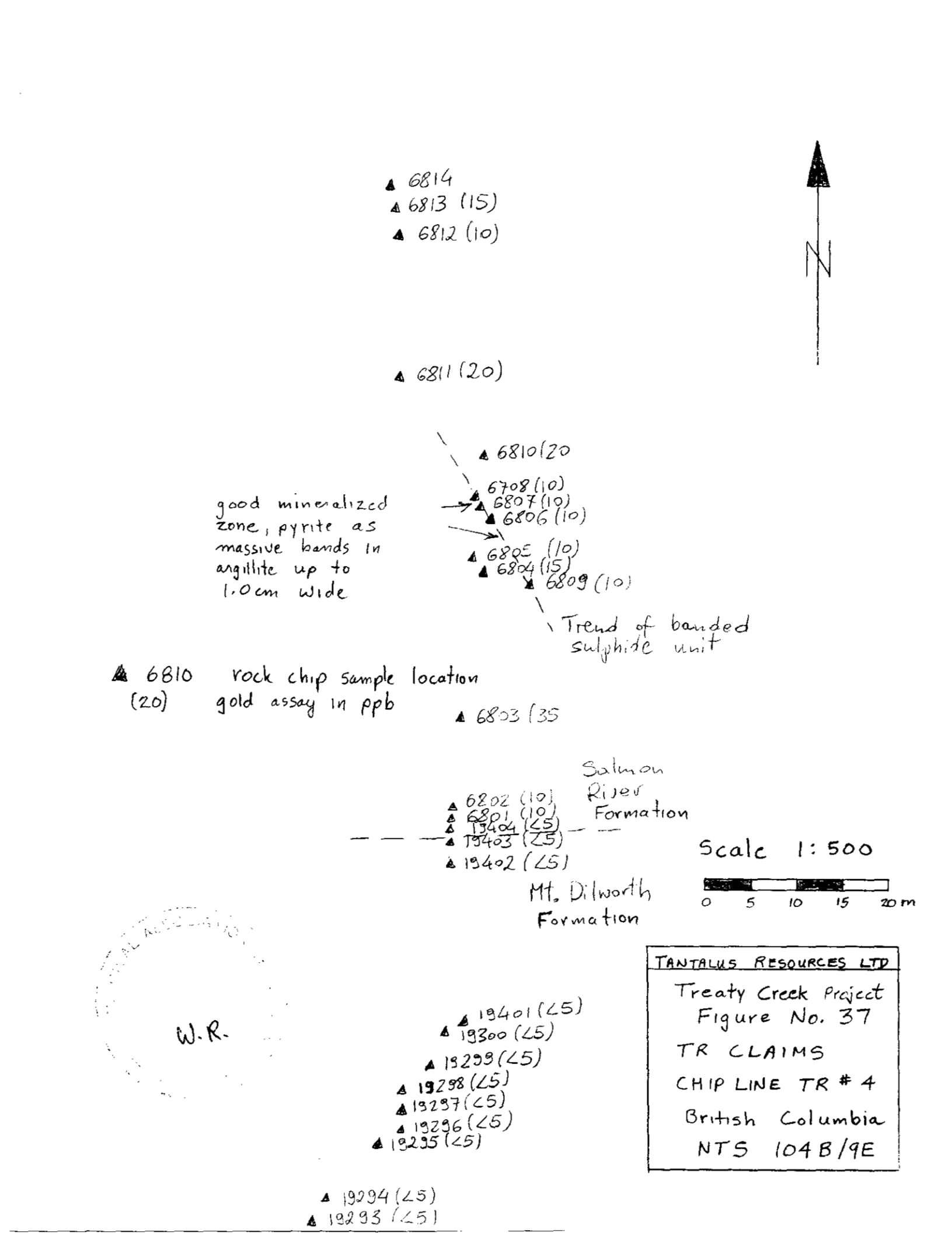
19441 rock chip sample location
(40) gold assay in ppb

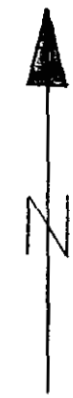
Scale 1:100

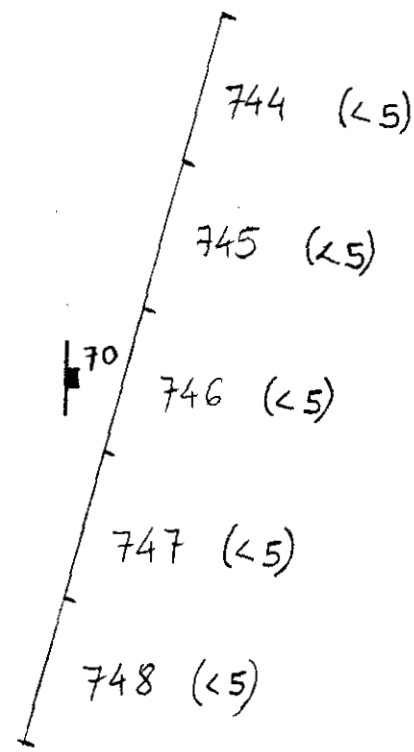
0 1 2 3 4m

TANTALUS RESOURCES LTD.
Treaty Creek Project
Figure No. 36
TR CLAIMS
CHIP LINE TR # 2
British Columbia
NTS 104B/9E

W.R.


6814
6813 (15)
6812 (10)
N
6811 (20)
6810 (20
6708 (10)
6807 (10)
6806 (10)
6805 (10)
6804 (15)
6809 (10)
good mineralized zone, pyrite as massive bands in argillite up to 1.0 cm wide
Trend of banded sulphide unit
6810 rock chip sample location
(20) gold assay in ppb
6803 (35
Salmon River Formation
6802 (10)
6801 (10)
19404 (<5)
19403 (<5)
19402 (<5)
Mt. Dilworth Formation
Scale 1:500
0 5 10 15 20 m
W.R.
19401 (<5)
19300 (<5)
19299 (<5)
19298 (<5)
19297 (<5)
19296 (<5)
19295 (<5)
19294 (<5)
19293 (<5)
TANTALUS RESOURCES LTD
Treaty Creek Project
Figure No. 37
TR CLAIMS
CHIP LINE TR # 4
British Columbia
NTS 104B/9E





The whole interval is of andesite lapilli tuff completely sericite and locally also silica and calcite altered. Average pyrite content 1-2% Pervasive limonite stain

70 Fracture, inclined

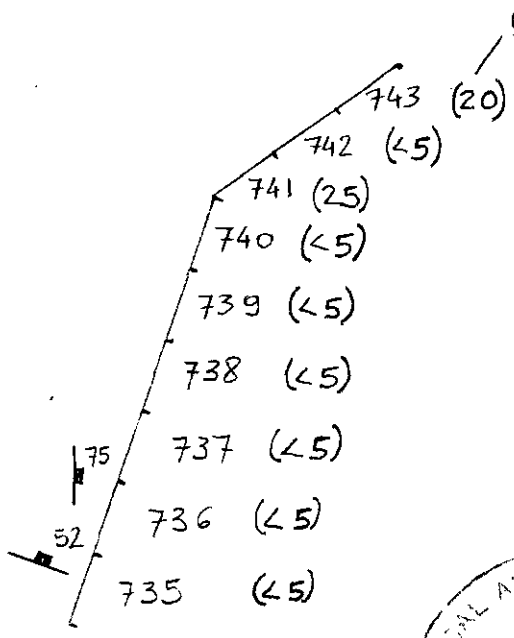
744 rock chip sample location
(<5) gold assay in ppb

Scale 1: 100

0 1 2 3 4m

W.R.

TANTALUS RESOURCES LTD
Treaty Creek Project
Figure No. 38
TR CLAIMS
CHIP LINE TR #5
British Columbia
NTS 104 B/9E

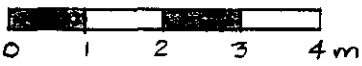


The whole interval consists of completely silica - sericite altered andesite pyroclastics. Pyrite < 1%, strong pervasive limonite stain

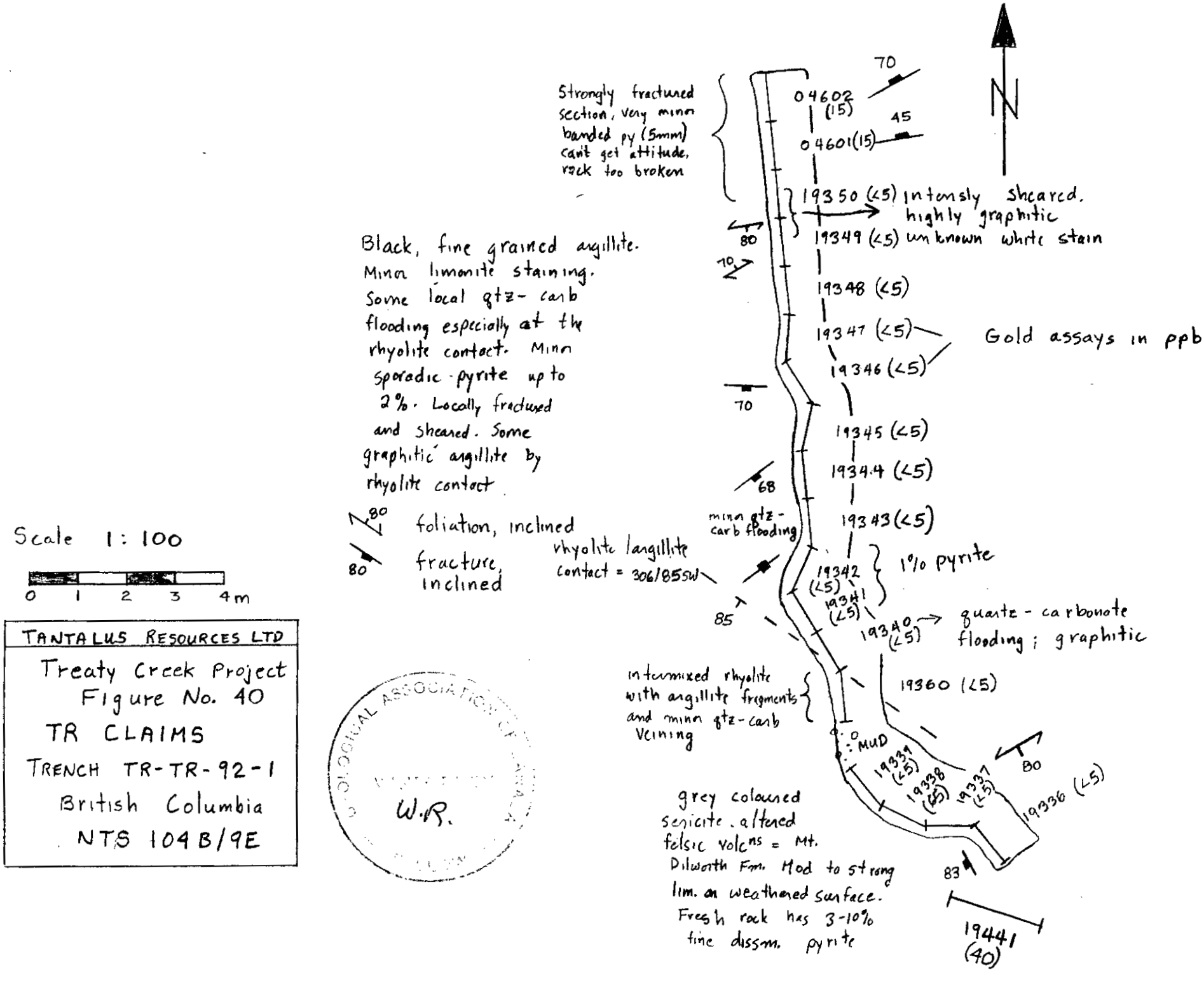
75 - fracture, inclined

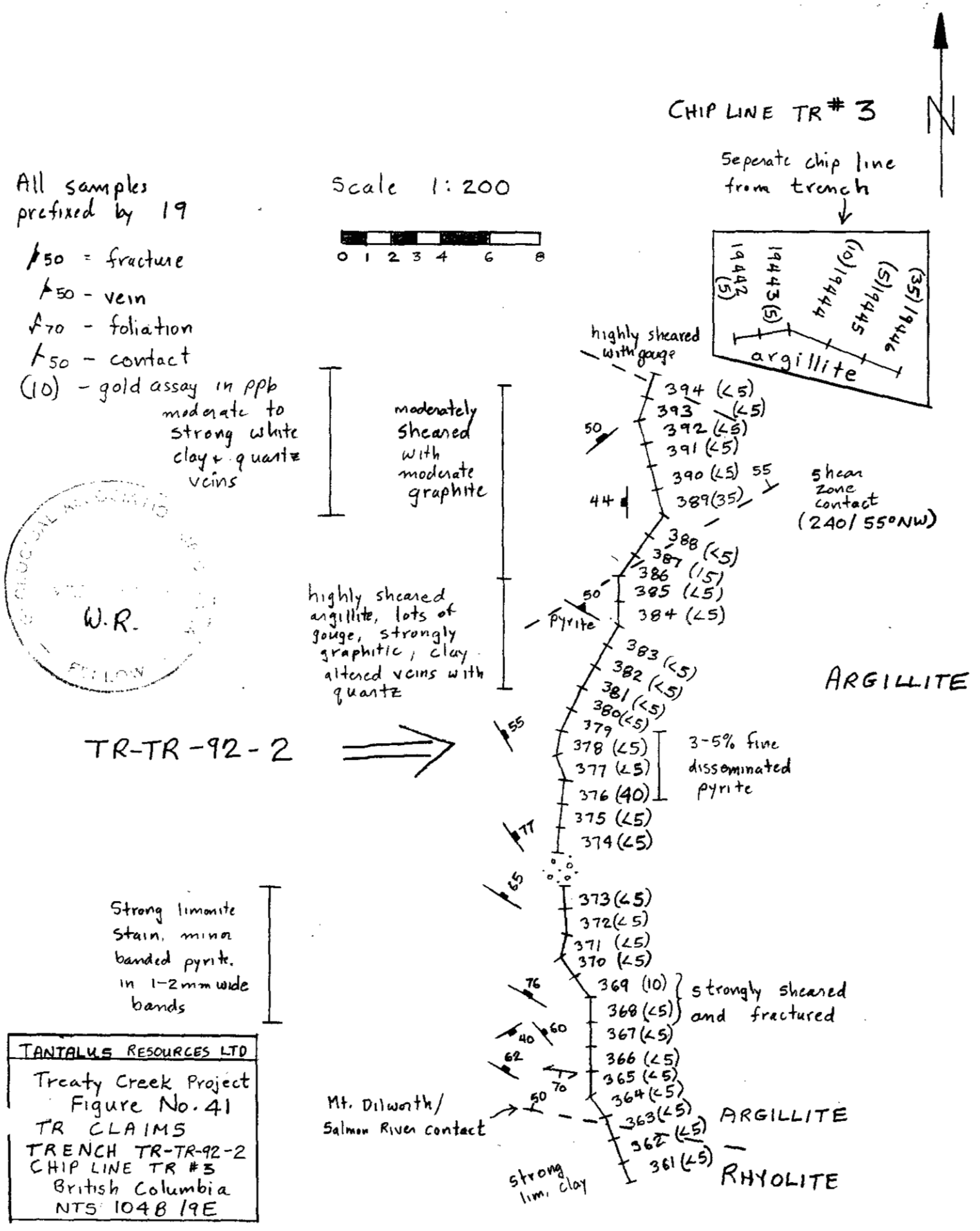
743 - rock chip sample location

Scale 1:100



TANTALUS RESOURCES LTD
Treaty Creek Project
Figure No. 39
TR CLAIMS
CHIP LINE TR #6
British Columbia
NTS 104 B/9E


Strongly fractured section, very minor banded py (5mm) can't get attitude, rock too broken
04602 (15)
04601 (15)
19350 (<5) intensly sheared, highly graphitic
19349 (<5) unknown white stain
19348 (<5)
19347 (<5)
19346 (<5)
19345 (<5)
19344 (<5)
19343 (<5)
19342 (<5)
19341 (<5)
19340 (<5)
19360 (<5)
19339 (<5)
19338 (<5)
19337 (<5)
19336 (<5)
19441 (40)
70
45
80
70
70
68
85
80
83
Gold assays in ppb
minor qtz-carb flooding
1% pyrite
quartz - carbonate flooding; graphitic
intermixed rhyolite with argillite fragments and minor qtz-carb veining
MUD
Black, fine grained argillite. Minor limonite staining. Some local qtz-carb flooding especially at the rhyolite contact. Minor sporadic pyrite up to 2%. Locally fractured and sheared. Some graphitic argillite by rhyolite contact
80
foliation, inclined
80
fracture, inclined
rhyolite/argillite contact = 306/85SW
grey coloured sericite. altered felsic volcns = Mt. Dilworth Fm. Mod to strong lim. on weathered surface. Fresh rock has 3-10% fine dissm. pyrite
Scale 1:100
0 1 2 3 4m
TANTALUS RESOURCES LTD
Treaty Creek Project
Figure No. 40
TR CLAIMS
TRENCH TR-TR-92-1
British Columbia
NTS 104B/9E
W.R.


CHIP LINE TR # 3
N
All samples prefixed by 19
Scale 1:200
0 1 2 3 4 6 8
Separate chip line from trench
(35) 19446
(5) 19445
(10) 19444
19443 (5)
19442 (5)
argillite
/50 = fracture
/50 - vein
/70 - foliation
/50 - contact
(10) - gold assay in ppb
moderate to strong white clay + quartz veins
moderately sheared with moderate graphite
highly sheared with gouge
394 (<5)
393 (<5)
392 (<5)
391 (<5)
390 (<5)
389(35)
50
55
44
shear zone contact (240/55°NW)
388 (<5)
387 (<5)
386 (<5)
385 (<5)
384 (<5)
50
pyrite
highly sheared argillite, lots of gouge, strongly graphitic; clay altered veins with quartz
383 (<5)
382 (<5)
381 (<5)
380(<5)
379
378 (<5)
377 (<5)
376 (40)
375 (<5)
374 (<5)
55
77
3-5% fine disseminated pyrite
ARGILLITE
TR-TR-92-2
55
65
373 (<5)
372 (<5)
371 (<5)
370 (<5)
369 (10)
368 (<5)
367 (<5)
366 (<5)
365 (<5)
364 (<5)
363 (<5)
362 (<5)
361 (<5)
76
40
60
62
70
50
strongly sheared and fractured
Strong limonite stain, minor banded pyrite, in 1-2mm wide bands
Mt. Dilworth/ Salmon River contact
ARGILLITE
RHYOLITE
strong lim. clay
TANTALUS RESOURCES LTD
Treaty Creek Project
Figure No. 41
TR CLAIMS
TRENCH TR-TR-92-2
CHIP LINE TR #3
British Columbia
NTS 104B 19E

/60 geological contact, inclined

/ fracture, inclined

/ vein, inclined

04677 rock chip sample location

(10) gold assay in ppb

Pyrite vein 1.5cm wide

Still graphitic and sheared but not as deformed as below

Strong lim stain minor gouge and graphite

Sheared gouge zone very graphitic with qtz. veins throughout

50

35

60

52

60

70

52

56

04679 (<5)
04678 (<5)
04677 (10)
04676 (5)
04675 (10)
04674 (5)
04673 (<5)
04672 (<5)
04671 (5)
04670 (<5)
04669 (<5)
04668 (5)
04667 (<5)
04666 (5)
04665 (<5)
04664 (10)
04663 (<5)
04662 (<5)
04661 (<5)
04660 (<5)
04659 (<5)
04658 (<5)
04657 (10)
04656 (<5)
04655 (<5)
04654 (<5)
04653 (<5)
04652 (<5)
04651 (<5)
19400 (<5)
19399 (<5)
19398 (<5)
19397 (<5)
19396 (<5)
19395 (120)

W.R.

The argillite has minor limonite staining and is very well fractured. Trace-1% disseminated pyrite throughout

Mt. Dilworth / Salmon River contact @ 302/60°NE

Mt. Dilworth felsic volcanics, highly sheared and clay altered, strong yellow-brown limonite stain, boxwork texture (8%) from weathered pyrite

Start of chip line sample # 19402

0 1 2 3 4 6 8m

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Treaty Creek Project

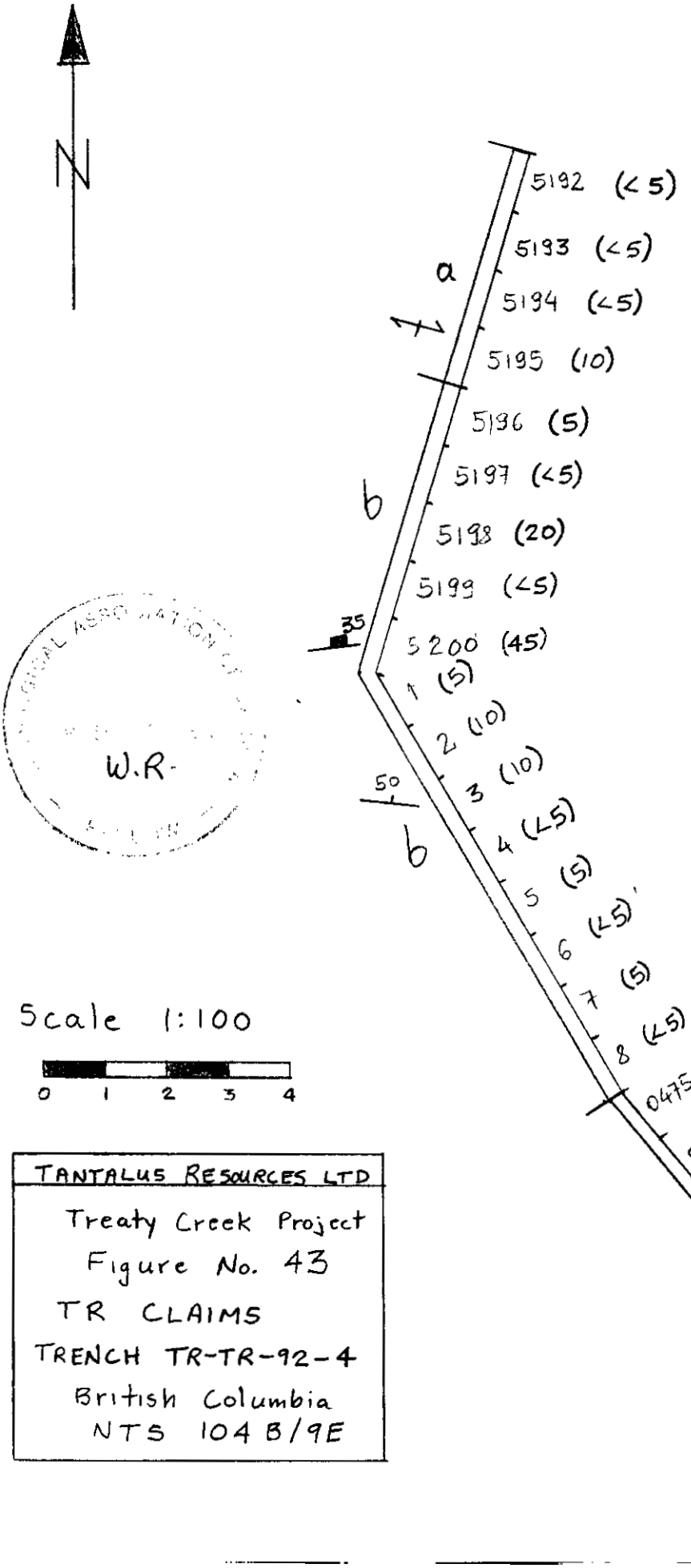
Figure No. 42

TR CLAIMS

TRENCH TR-TR-92-3

British Columbia

NTS 104B/9E



Figure

LEGEND

a) Black argillite strongly shattered to sheared, locally moderately silicified. Abundant limonite on fractures and as irregular replacements.

b) Black mudstone/siltstone, limonite on fractures. Pyrite < 1% as disseminated tiny grains. A few small (1-2 mm wide) bands of pyrite parallel to bedding were seen

c) Volcaniclastic sandstone completely calcitized, minor pyrite.

shearing

35 fracture

50 bedding

04753 - Sample assay tag

(10) - Gold assay in ppb

Scale 1:100

0 1 2 3 4

TANTALUS RESOURCES LTD
Treaty Creek Project
Figure No. 43
TR CLAIMS
TRENCH TR-TR-92-4
British Columbia
NTS 104 B/9E

clay veinlets and disseminated graphite. Bedding the Salmon River Formation rocks has a WNW-ESE strike which is comformable with the Mt.Dilworth/Salmon River contact.

Rocks of the Betty Creek Formation are strongly sericitized andesite pyroclastics containing up to 5% disseminated pyrite.

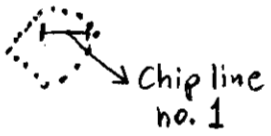
Results from the chip lines and trenches were similar, and there were no significant amounts of base or precious metals encountered though silver is relatively elevated (up to 5 ppm) in about half of the samples coming from the Mt. Dilworth and Salmon River Formations.

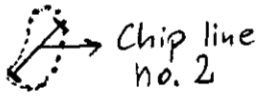
Also, zinc shows a relatively consistent "elevation" of up to 500 ppm in all samples except those from the Salmon River Formation rocks.

VR-5 Claim

On this claim, close to the property's northernmost boundary (Figure 44), a few outcrops of Mt. Dilworth Formation were found. Here, the Mt. Dilworth is some 20 to 30 m wide and could be traced for approximately 600 m. Starting from the east, it trends WNW for about 400 m, then changes to a more N-S direction (Figure 44).

A total of three chip lines (VR-5-1 to VR-5-3) and two dynamited trenches (TR-VR-92-1 and TR-VR-92-2) were completed exposing Mt. Dilworth/Salmon River Formations contact from which forty one-metre chip samples were collected (Figures 44 to 49). The Mt. Dilworth Formation here is comprised of primarily a felsic breccia consisting





LEGEND

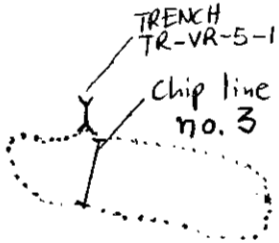
Outcrop of Mt. Dilworth Formation

45 Bedding

Chip line

Trench

6815(10) rock sample location with assay tag number and gold assay in (ppb)

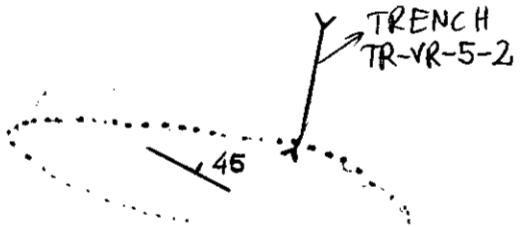


Claim post ■

Scale 1:2000

0 10 20 40 60 100 150 200 m

6815 (10) ▲



TANTALUS RESOURCES LTD

Treaty Creek Project

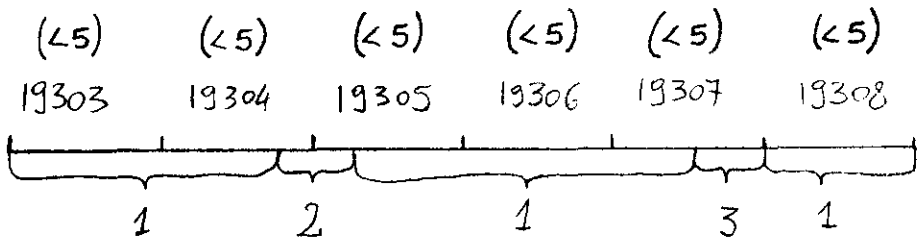
Figure No. 44

VR-5 CLAIM

TRENCH + CHIP LINE LOCATIONS

British Columbia

NTS 104B/9E



1 Mudstone supported rhyolitic? breccia, usually strongly silicified with up to 10% very fine, disseminated and blebby pyrite

2 Felsic lithic tuff modenately altered

3 Very fine tuff to mudstone completely silicified

19303 - chip sample number

(<5) - Gold assay in ppb

W.R.

Scale 1: 100

0 1 2 3 4 m

TANTALUS RESOURCES LTD

Treaty Creek Project

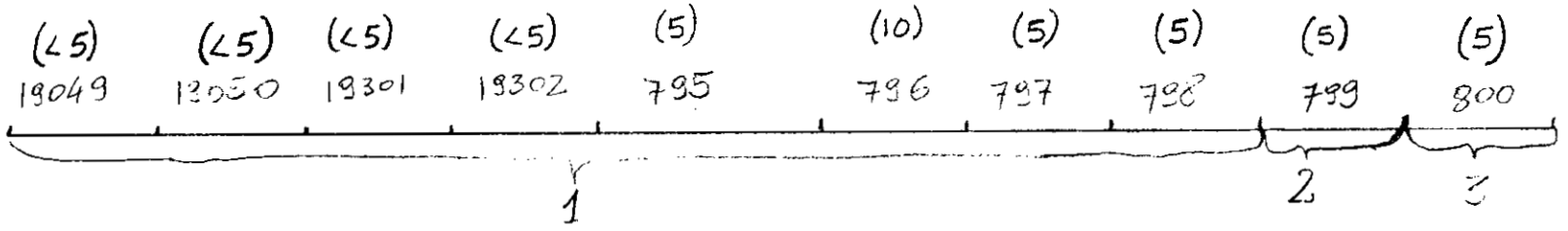
Figure No. 45

VR-5 CLAIMS

CHIP LINE VR-5-1

British Columbia

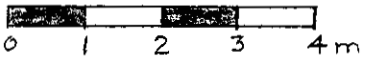
NTS 104B/9E



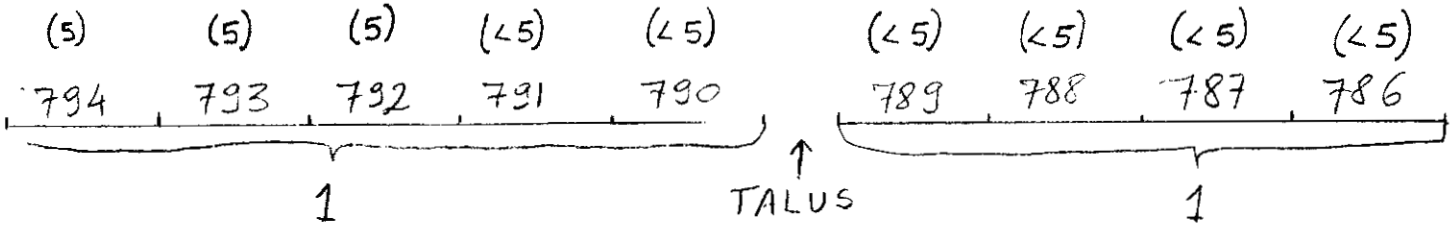
1. Mudstone supported rhyolite? breccia silicified and sericitized to various degrees. Contains disseminated to lesser blebby pyrite up to 5%
2. Fine rhyolite? tuff moderately sericitized
3. Argillite.

19301 - Sample assay tag number
(5) - Gold assay in ppb.

Scale 1: 100



TANTALUS RESOURCES LTD
Treaty Creek Project
Figure No. 46
VR-5 CLAIMS
CHIP LINE VR-5-2
British Columbia
NTS 104 B/9E



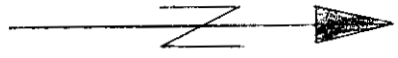
1 Mudstone supported rhyolite? breccia, strongly silicified with up to 10% pyrite as fine disseminations and small blebs.

793 - Sample assay tag number
(5) - Gold assay in ppb

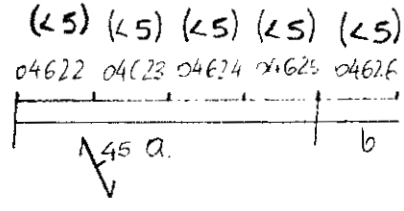
Scale 1: 100

0 1 2 3 4 m

TANTALUS RESOURCES LTD
Treaty Creek Project Figure No. 47 VR-5 CLAIM CHIP LINE VR-5-3 British Columbia NTS 104 B/9E



Rest of trench is basically overburden, The trench was blasted out to a depth of ≈ 10' and still no definate rock in place, so it remains unsampled.



LEGEND

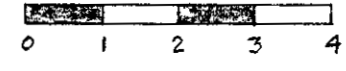
a) black argillite strongly fractured to shattered, locally foliated to schistose, minor limonite

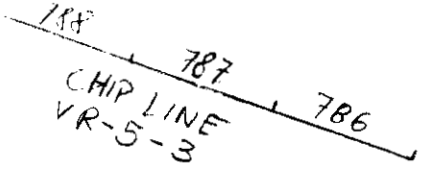
b) black argillite, very strongly fractured to shattered, limonite on fractures

04623 sample assay tag number

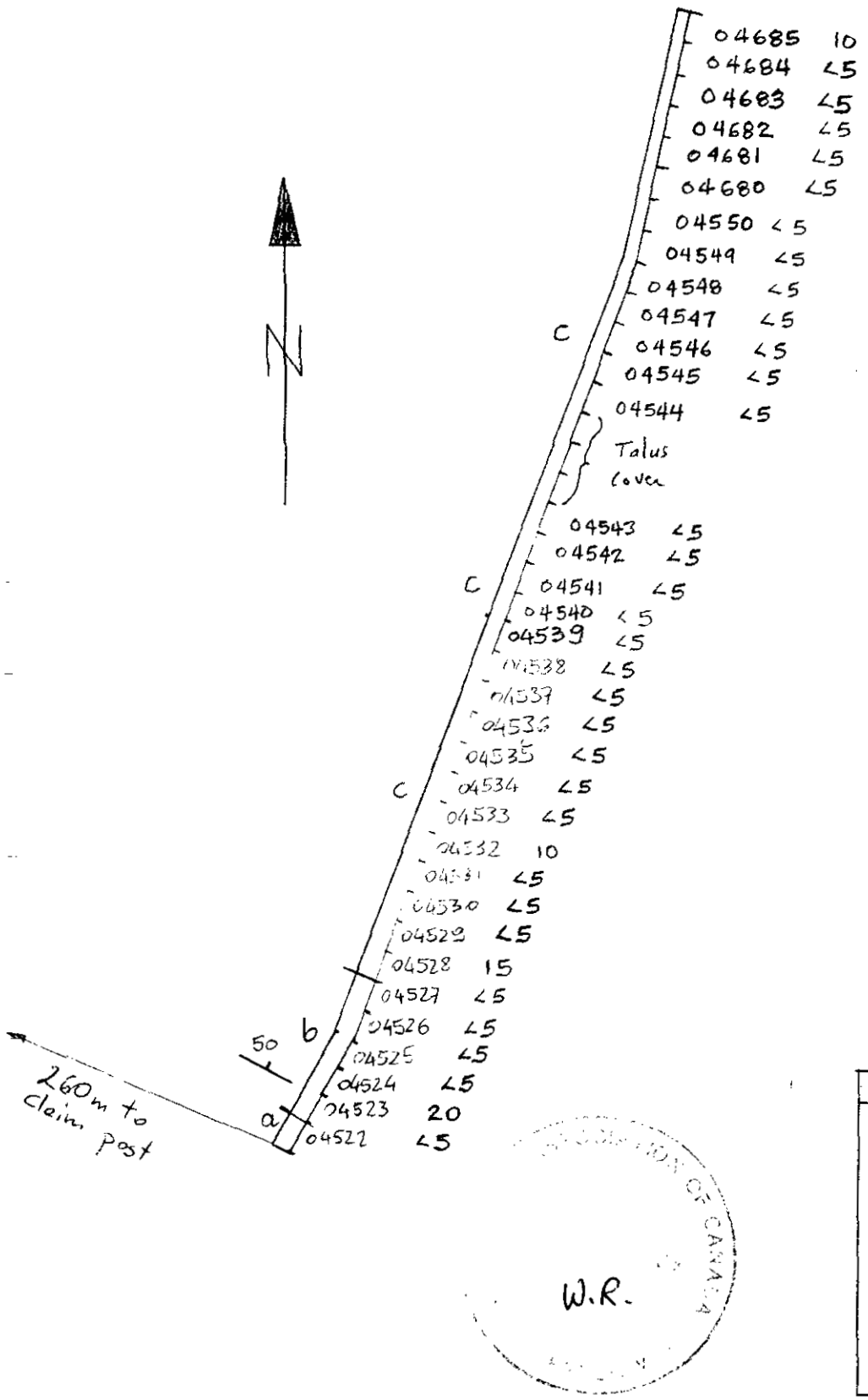
(<5) gold assay in ppb

Scale 1 : 100





TANTALUS RESOURCES LTD.
Treaty Creek Project
Figure No. 48
VR-5 CLAIMS
TRENCH TR-VR-5-1
British Columbia
NTS 104B/9E



LEGEND

a) very strongly silicified felsic breccia, 2-5% pyrite as disseminated grains and small blebs

b) greywacke, the southern portion of the interval contains light (rhyolite?) fragments, is variably silicified and contains up to 3% pyrite

c) black siltstone, minor limonite on bedding plane moderately to strongly fractured, locally minor pyrite

04685 Sample assay tag number
10 gold assay in ppb

Scale 1:200

0 1 2 3 4 6 8

TANTALUS RESOURCES LTD
Treaty Creek Project
Figure No. 49
VR-5 CLAIM
TRENCH TR-VR-5-2
British Columbia
NTS 104B/9E

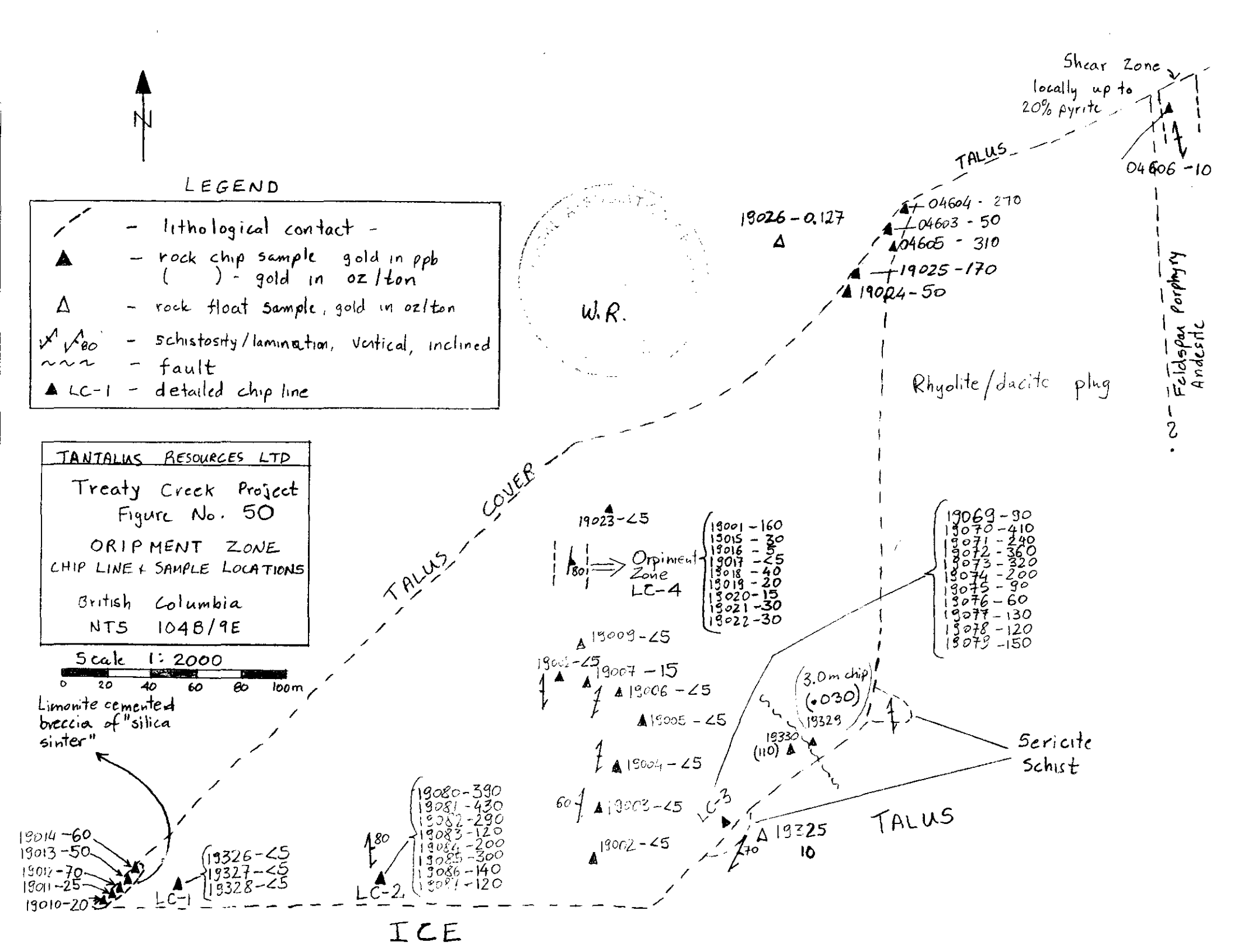
W.R.

of clasts of up to 2.0 cm in diameter, supported by a mudstone and lesser reworked andesitic tuffaceous matrix. A one to two metre wide layer of fine grained felsic ash tuff was also seen. These rocks are sericitized and silicified to various degrees and contain up to 10% pyrite as disseminated grains and small irregular blebs.

Results obtained from chip lines and trenches were not significant i.e. either the Mt. Dilworth or Salmon River Formation.

Orpiment Zone

The Orpiment Zone is located on the TR-6 claim where according to regional mapping by Alldrick et al, 1989, the Mt. Dilworth Formation meets the Treaty Glacier. The zone has been explored in the past in several locations, but did not receive much detailed work due to the difficult terrain. The Orpiment Zone can be traced along strike for approximately 500 m. In the middle of this section, it reaches about 180 m in width. The zone is terminated by talus and/or ice fields in all directions but the west where it borders a rhyolite/dacite plug. Southward at the topographic "bottom" of the zone there are two locations where the contact with an underlying quartz-sericite schist typical of the Treaty Gossan described above is well exposed (Figure 50). The bulk of the Orpiment Zone is comprised of rock that is found as numerous boulders along the eastern margin of the Treaty Gossan and referred to as "silica sinter" by Alldrick (pers. comm.). In this report, it will be referred to as silica-alunite-pyrite altered rock. This rock is a deep grey colour, generally well laminated and composed, in order of abundance, of very

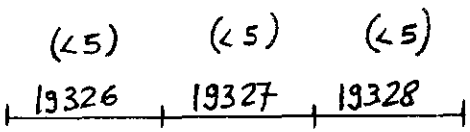

N
LEGEND
- lithological contact -
- rock chip sample gold in ppb
( ) - gold in oz/ton
- rock float sample, gold in oz/ton
- schistosity/lamination, vertical, inclined
- fault
LC-1 - detailed chip line
TANTALUS RESOURCES LTD
Treaty Creek Project
Figure No. 50
ORIPMENT ZONE
CHIP LINE & SAMPLE LOCATIONS
British Columbia
NTS 104B/9E
Scale 1: 2000
0 20 40 60 80 100m
Limonite cemented breccia of "silica sinter"
Shear Zone
locally up to 20% pyrite
TALUS
04606 -10
19026 - 0.127
04604 - 270
04603 - 50
04605 - 310
19025 - 170
19024 - 50
W.R.
Rhyolite/dacite plug
Feldspar porphyry Andesite dyke
TALUS
COVER
19023 - <5
Orpiment Zone LC-4
19001 - 160
19015 - 30
19016 - 5
19017 - <5
19018 - 40
19019 - 20
19020 - 15
19021 - 30
19022 - 30
19009 - <5
19008 - <5
19007 - 15
19006 - <5
19005 - <5
19004 - <5
19003 - <5
19002 - <5
19069 - 90
19070 - 410
19071 - 240
19072 - 360
19073 - 320
19074 - 200
19075 - 90
19076 - 60
19077 - 130
19078 - 120
19079 - 150
3.0m chip (.030) 19329
19330 (110)
Sericite Schist
LC-3
19325 10
TALUS
19014 - 60
19013 - 50
19012 - 70
19011 - 25
19010 - 20
LC-1
19326 - <5
19327 - <5
19328 - <5
LC-2
19080 - 390
19081 - 430
19082 - 290
19083 - 120
19084 - 200
19085 - 300
19086 - 140
19087 - 120
ICE

fine grained often chalcedonic silica, laths of alunite and extremely fine-grained disseminated -- locally semimassive -- pyrite. The presence of very fine grained alunite was revealed in each of four thin sections taken of the rock from samples collected in different parts of the zone (see descriptions of thin sections #2,3,4,5 (Appendix II). The rock often contains irregular veinlets of pale green quartz locally forming stockwork-like zones and occasionally pyrite veins up to 10 cm thick.

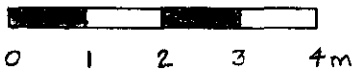
Native sulphur and orpiment occur in small fractures within the rock. The orpiment is found within an area approximately 15 m in width and 20 m long containing one major orpiment vein some 5-20 cm wide within a network of much smaller, irregular veinlets. The bulk of the silica-alunite-pyrite altered rock has a well pronounced, usually contorted lamination. The majority of greenish quartz and pyrite veins described above are comformable with this lamination. Within the zone, a few brecciated and intensely silicified outcrops, up to 15 m in diameter, containing 20-25% extremely fine grained pyrite were discovered.

Altogether 52 chip samples were collected from the zone of which 32 were taken from 4 chip lines (LC-1 to LC-4, Figures 51 to 54). Gold results varied from <5 ppb to 0.030 oz/t over 3.0 m. Areas of the relatively more pyrite-rich, intensely silicified breccias are the most anomalous in gold, with one such area returning 0.030 oz/t gold over 3.0 m. Other similar zones also returned weakly anomalous gold results. Line LC-3 returned an average 197 ppb gold over 14.5 m

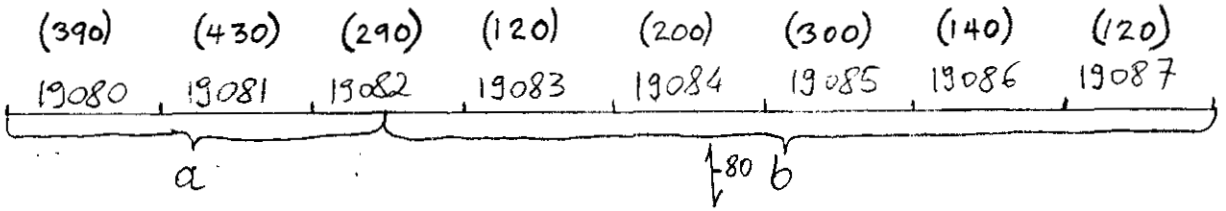
All samples are of laminated rock composed of cherty silica, sericite, and very fine grained pyrite averaging 10-15%, laminae are strongly contorted



Scale 1: 100



TANTALUS RESOURCES LTD
Treaty Creek Project
Figure No. 51
ORPIMENT ZONE
CHIP LINE LC-1
British Columbia
NTS 104B/9E



LEGEND

a. Pyrite rich completely silicified breccia? Extremely fine grained, pyrite averages 10-20%

b. Laminated rock composed of cherty silica, sericite and 10-15% very fine grained pyrite

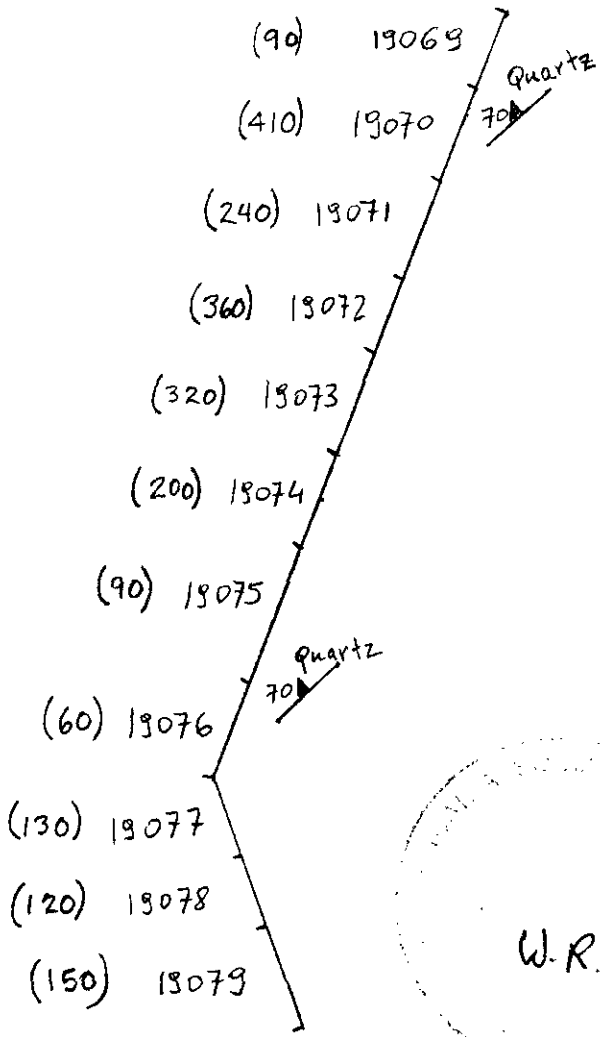
80 Lamination, inclined

(290) Gold assay in ppb

Scale 1:100

0 1 2 3 4m

TANTALUS RESOURCES LTD
Treaty Creek Project
Figure No. 52
ORPIMENT ZONE
CHIP LINE LC-2
British Columbia
NTS 104 B/9E



All samples are of pyrite rich completely silicified breccia (?) cut by later pale green quartz veinlets locally comprising stockwork-like zones. Very fine grained pyrite averages 20-25%

Quartz vein

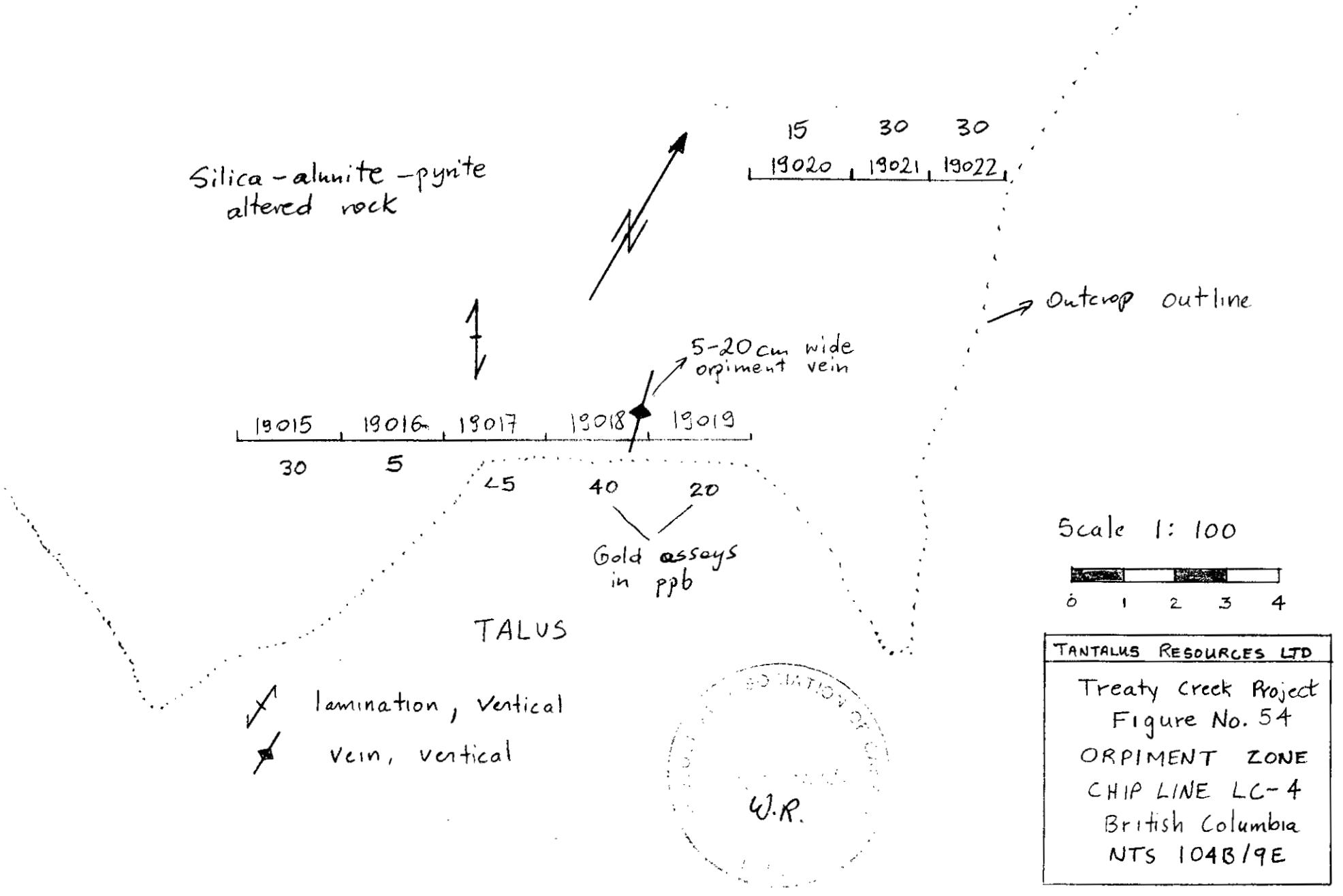
(410) Gold assay in ppb

Scale 1:100

0 1 2 3 4 m

W.R.

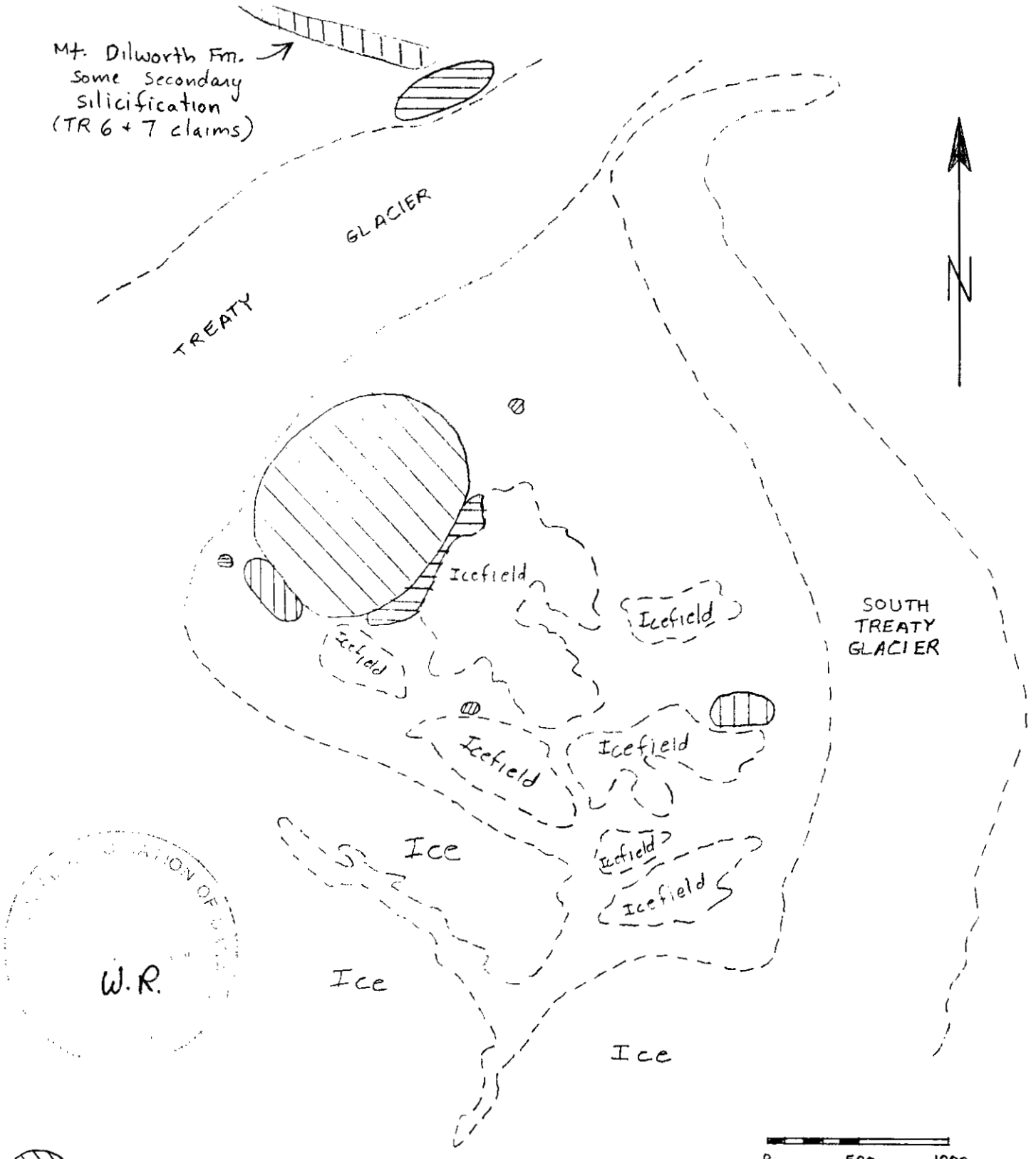
TANTALUS RESOURCES LTD
Treaty Creek Project
Figure No. 53
ORPIMENT ZONE
CHIP LINE LC-3
British Columbia
NTS 104B/9E


Silica - alunite - pyrite altered rock
15
30
30
19020
19021
19022
Outcrop outline
5-20 cm wide orpiment vein
19015
19016
19017
19018
19019
30
5
<5
40
20
Gold assays in ppb
TALUS
lamination, vertical
vein, vertical
W.R.
Scale 1: 100
0
1
2
3
4
TANTALUS RESOURCES LTD
Treaty Creek Project
Figure No. 54
ORPIMENT ZONE
CHIP LINE LC-4
British Columbia
NTS 104B/9E

including a 6.5 m interval averaging 306 ppb gold (Figure 53). Part of chip line LC-2 taken over a pyrite-rich, heavily silicified breccia returned an average of 370 ppb gold over 6.0 m (Figure 52). The reminder of chip line LC-2 also returned weakly elevated gold values, from 120 to 300 ppb, giving a weighted average of 249 ppb gold for its entire length of 16.0 m. Samples from other parts of the Orpiment Zone (LC-1 and LC-4, Figures 51 and 54) generally returned lower gold values (from <5 to 70 ppb gold) though five samples from an area near the topographic top of the zone close to a rhyolite/dacite plug assayed between 50 to 310 ppb gold (samples #04603-04605 and 19024-19025, Figure 50). Contents of arsenic, copper, lead, antimony and zinc are weakly elevated in most of the samples from the Orpiment Zone but none of these latter elements seems to be associated with gold. Three samples (19080 to 19082) from chip line LC-3 were anomalous in silver returning from 4 to 9 ppm.

DISCUSSION OF ALTERATION

Based on the exploration conducted during 1992, as well as four previous exploration seasons for author Walus and three for author Raven, the property's geology seems to be dominated by a copper-porphyry alteration system and a later, possibly genetically related epithermal system of alteration and mineralization. A third style of epigenetic alteration also exists in several more localized settings, particularly at or near the Mount Dilworth-Salmon River Formations contact. The latter is spatially if not genetically associated with bedded, exhalative sulphide mineralization on the TR 6 and 7 claims (Figure 55).



TANTALUS RESOURCES LTD

Treaty Creek Project

Figure No. 55

TREATY GOSSON AREA

ALTERATION ZONES

British Columbia

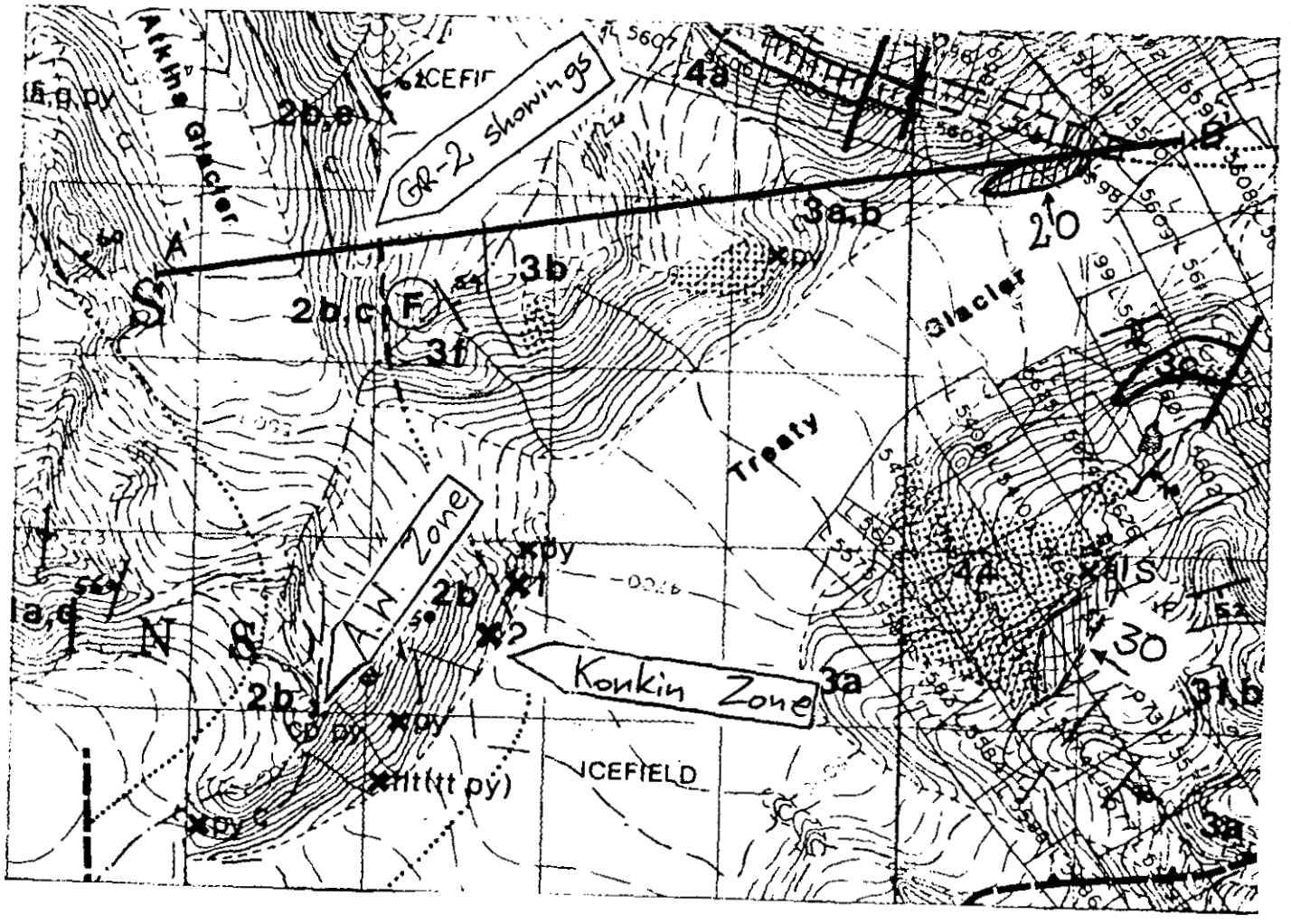
NTS 104 B/9E

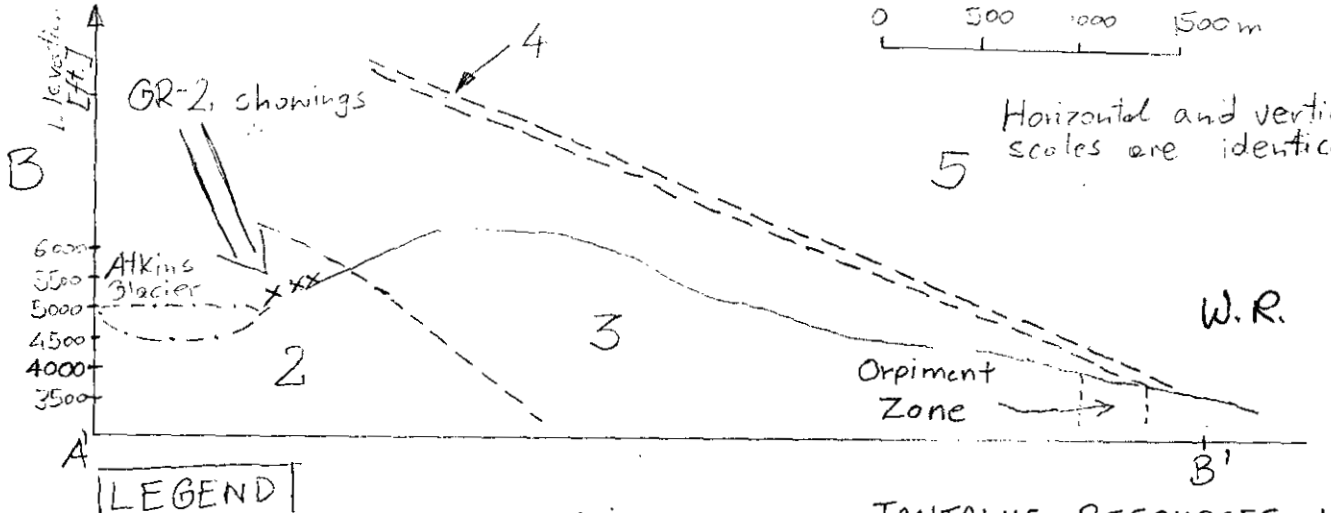
The vast majority of the so called Treaty Gossan is characterized by a schistose, very intense and extensive sericitic alteration zone thought to represent the phyllic section of a copper-porphyry alteration system. The following features of the sericitic schist zone argue for such an interpretation:

1. Pattern of alteration - at Treaty Creek a zone of intense phyllic (sericitic) alteration is locally bordered by propylitic (epidote, chlorite) alteration.
2. The zone is centred on porphyritic intrusion (feldspar porphyritic andesite?) whose texture is well preserved in many parts of Treaty Gossan though the rock itself is completely replaced by sericite, and possibly
3. The shear size of the zone, which encompasses an area of over one square kilometre.

Along the eastern margin of the Treaty Gossan a number of laminated, chalcedonic, alunite and native sulphur bearing rocks were discovered by Alldrick (1986). Subsequent thin section analysis by author Walus confirmed these rocks are comprised of 20 to 30% alunite. Generally they contain between 10 to 15% pyrite along with trace amounts of orpiment, selenite, and stibnite. None of these latter, epithermal, relatively lower temperature mineral assemblages have been found in the Treaty Gossan sericite schists suggesting that the two rock types were formed by different alteration processes.

A large outcropping of similar epithermal, silica-alunite-pyrite altered rock, the Orpiment Zone, was discovered during the 1992 program across the Treaty Glacier (Figure 56) topographically overlying the same sericite schist that comprises the bulk of the Treaty Gossan. At the Orpiment Zone the contact between these two rock types is well exposed in several places. This contact is gradational over several metres. The laminations in the quartz-alunite-pyrite rock and schistocity in the underlying sericite schist are both vertically oriented such that one grades into the other. While field relationships do not clearly demonstrate which alteration type replaces the other, epithermal systems are typically later stage, higher level processes than porphyry copper alteration systems (Sillitoe, 1989). This would suggest the quartz-alunite-pyrite rock likely originated as a massive replacement of the sericite schist. Furthermore, the vertically orientated laminations in the former are more or less perpendicular to the bedding in the overlying Salmon River Formation. This may also suggest the quartz-alunite-pyrite rock originated as a replacement of a pre-existing rock unit as opposed to a primary seafloor precipitate or "silica sinter". The direct superposition of epithermally altered rocks onto those associated with porphyry alteration is uncommon. Usually in volcanic sequences epithermal deposits are placed either above (i.e. an acid-sulphate types) or at considerable lateral distance (as in adularia-sericite types) from a copper-porphyry deposit (Silitoe, 1989 - see Figures 57a to 57c). However, if an ongoing magmatic-hydrothermal system coincides with the uplift and rapid erosion of overlying rocks, then the epithermal system may be superimposed on the upper portion of a





LEGEND

2. Unuk River Formation
3. Betty Creek Formation
4. Mt. Dilworth Formation
5. Salmon River Formation

44 Treaty Gossan alteration Zone

EPITHERMAL OCCURENCES
- A.W Zone
- GR-2 showings
- Konkin Zone

20 Outcrop of silica-alunite-pyrite altered rock (Last Chance Zone)

30 Presumed outcrops of silica-alunite-pyrite-altered rock

TANTALUS RESOURCES LTD

Figure No. 56

TREATY CREEK PROJECT

A. PROPERTY WIDE EPITHERMAL OCCURRANCES

B. CROSS SECTION BETWEEN GR-2 SHOWINGS AND ORPIMENT ZONE

British Columbia
NTS 104B/9E

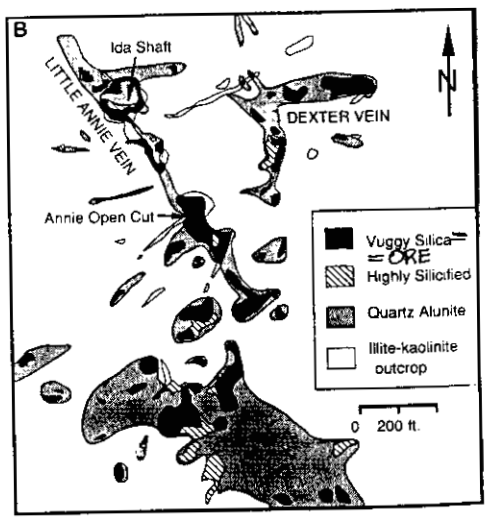


Fig. 57a Alteration zones in portion of Summitville deposit (from R. Stoffregen, 1987)

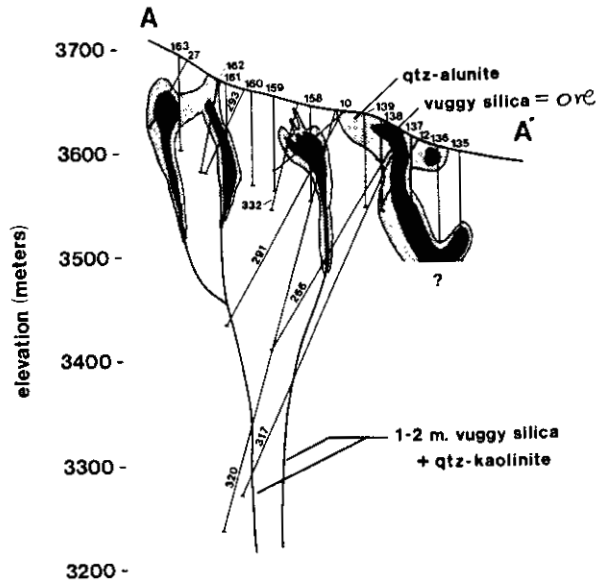


Fig. 57b Section through portion of Summitville deposit (from R. Stoffregen, 1987) showing relationship of vuggy silica (containing the bulk of ore) to quartz-alunite alteration

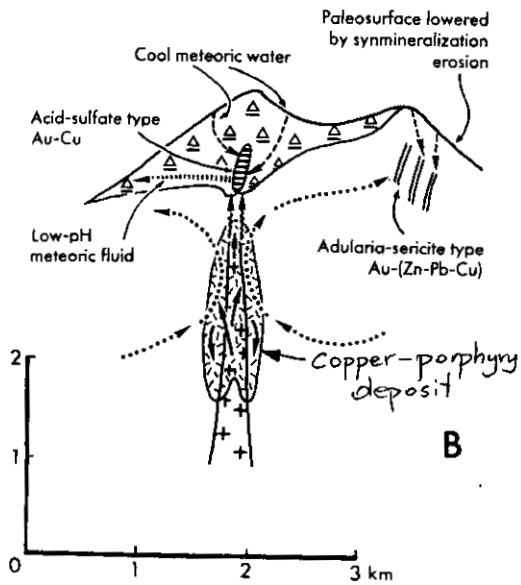


Fig. 57c Relationship between acid-sulphate and adularia-sericite types of gold deposit within copper-porphyry system (from Sillitoe R.H., 1989)

copper-porphyry system. Several examples of such a relationship have been described in the Western Pacific region (Silitoe, 1989).

The Treaty Creek property's epithermal system manifested by the silica-alunite-pyrite altered rocks can be further classified as an acid-sulphate type due to the presence of extensive hypogene alunite and native sulphur (Heald et al, 1987), and its interpreted location above a porphyry copper hydrothermal system (Sillitoe, 1989).

Native sulphur has been identified in similar zones at Summitville, Colorado, (Stoffregen, 1987) and in numerous Chilean epithermal gold deposits (Silitoe, 1991).

The importance of locating epithermal alteration zones containing hypogene alunite lies in the fact that these zones commonly occur as immediate halos to precious metal bearing ore bodies (Stoffregen, 1987; Silitoe, 1991). As discussed above, two such areas have been found to-date on the Treaty Creek Property, the Orpiment Zone and the area along the eastern margin of Treaty Gossan (Figure 56). However, boulders of similar silica-alunite-pyrite altered rock have been found in two additional areas explored in previous years, namely the AW, Konkin, and GR-2 Zones (Figure 56, Raven and Walus, 1991). The latter two zones are characterized by structurally controlled sulphide vein occurrences containing variable amounts of galena, sphalerite, pyrite and chalcopyrite with a high precious metals content (i.e. 0.457 oz/t gold over 8.6 m - A.W. Zone, 190.0 oz/t silver over 1.3m - GR-2 claim; and 28.0 oz/t gold over 1.2 m - Konkin Zone). These precious metals

rich base metal occurrences may represent deposits formed stratigraphically lower than the silica-alunite-pyrite rocks from the same epithermal system. The boulders of the latter type found on ridge tops in the vicinity of the AW, Konkin and GR-2 Zones may represent remnants of now eroded, overlying silica-alunite-pyrite alteration zones.

The base metals occurrences may represent a sericite-adularia type of epithermal deposit as lead-zinc mineralization tends to prevail in those types (Heald et al, 1987). However, each type may be generated by the same epithermal process with the acid-sulphate types occurring as halos to the sericite-adularia types (Sillitoe, 1989).

The acid-sulphate type epithermal occurrences on the Treaty Creek property have similar characteristics to known gold deposits such as at Summitville, Colorado. There, quartz-alunite altered rock occurs as irregular halos around the numerous gold orebodies on that property (Stofergen, 1987). It is possible that zones of silica-alunite-pyrite altered rock on Treaty Creek may have a similar relationship to as yet undiscovered gold deposits. This is also suggested by the potential relationship of boulders of silica-alunite-pyrite altered rock in the vicinity of the precious metals enriched AW, Konkin and GR-2 Zones discussed above.

If this relationship is correct, the area with most potential to-date to host a major ore body is below or in the direct vicinity of

the Orpiment Zone since this is the largest body of silica-alunite-pyrite alteration known on the property. Also, potentially significant, anomalous gold results (0.03 oz/t over 3.0 m and 370 ppb over 6.0 m) were obtained only from this zone. Finally, the Orpiment Zone is adjacent to a rhyolite/dacite plug which may indicate the zone's proximity to a volcanic centre, further evidenced by the presence of a coarse, felsic volcanic breccia unit which crops out some 1,000 to 1,500 m to the WNW.

RECOMMENDATIONS

Of the three main styles of mineralization present on the property further work on the Treaty Creek Project should focus on the properties' potential to host an epithermal gold deposit, particularly in the area of the Orpiment Zone. The Orpiment Zone exhibits many characteristics that are similar to the epithermal gold deposits at Summitville Colorado.

The other two main styles of mineralization within the project area are porphyry-copper and Eskay Creek type deposits. Alteration assemblages indicative of a porphyry copper deposit are present on the Treaty Gossan, however, extensive surface sampling has failed to reveal any economic base or precious metal mineralization. It is felt that an extensive deep drilling program would be required to further evaluate this target area. Exploration on the TR and VR-5 claims for an Eskay Creek type deposit located and sampled the favourable Mt. Dilworth/Salmon River Formations contact in numerous locations, however, no significant precious or base metal results were obtained.

The Orpiment Zone is a relatively new discovery on the Treaty Creek Project and has only been examined in some detail during the 1992 work program. Additional ground work is warranted to determine the limits of the zone and its potential to host a massive sulphide deposit. Geophysical surveys would be best suited to this purpose, in particular a UTEM survey. As pyrite is an evenly disseminated ubiquitous constituent of the zone, the UTEM survey should delineate any massive concentrations of sulphides present within the zone. Massive sulphide concentrations are significant on the Treaty Creek Project as wherever they have been found they have yielded highly anomalous precious and base metals, i.e. AW Zone, Konkin Zone and GR-2 Showings.

Any further work would likely involve diamond drilling of the UTEM conductors if the survey is successful in outlining good conductors. The UTEM survey is estimated to cost $33,650.

COST ESTIMATE

Mob/Demob	$ 3,000
Geophysics - UTEM 8 km @ $1,200/km	9,600
Helicopter - 7 hrs. @ $800/hr.	5,600
Camp Costs - 28 days @ $100/day	2,800
Labour - Field Assistants (2) 14 days @ $200/day	2,800
Report	1,000
Subtotal	24,800
GST @ 7%	1,730
Contingency @ 10%	2,480
Subtotal	29,010
Management Fee (@ 16% GST incl.)	4,640
TOTAL	**$ 33,650**

STATEMENT OF QUALIFICATIONS

I, Alojzy Aleksander Walus, of 4816 Joyce Street, Vancouver, British Columbia hereby certify:

1. I am a graduate of the University of Wroclaw (Poland) and hold a MSc. degree in geology.
2. I have three years experience as an exploration geologist in Poland.
3. In 1988 and 1989 I worked in British Columbia as a geologist with several exploration companies.
4. Since the 1990 summer exploration season I have been employed as a field geologist with OreQuest Consultants Ltd. of #306-595 Howe Street, Vancouver, British Columbia.
5. All information contained in this report was obtained during 1992 exploration program.
6. I have no interest, direct or indirect, in the property nor in the securities of Tantalus Resources Ltd.
6. I consent to and authorize the use of the attached report and my name in the Company's Prospectus, Statement of Material Facts or other public document.

Alojzy Aleksander Walus, M.Sc.

DATED at Vancouver, British Columbia, this 11th day of December, 1992.

STATEMENT OF QUALIFICATIONS

I, Wesley D.T. Raven, #108, 1720 W. 12th Avenue, Vancouver, British Columbia hereby certify:

1. I am a graduate of the University of British Columbia (1983) and hold a BSc. degree in geology.
2. I am presently retained as a consulting geologist with OreQuest Consultants Ltd. of #306-595 Howe Street, Vancouver, British Columbia.
3. I have been employed as an exploration geologist on a full time basis since 1983.
4. I am a Fellow of the Geological Association of Canada.
5. The information contained in this report was obtained during onsite property exploration supervision personally conducted by myself in 1992.
6. I have no interest, direct or indirect, in the property nor in the securities of Tantalus Resources Ltd.
7. I consent to and authorize the use of the attached report and my name in the Company's Prospectus, Statement of Material Facts or other public document.

Wesley Raven

Wesley D.T. Raven, F.G.A.C.
Geologist

DATED at Vancouver, British Columbia, this 11th day of December, 1992.

STATEMENT OF QUALIFICATIONS

I, Peter J. Lougheed of North Vancouver, British Columbia do hereby certify that:

1. I am currently a Senior Geologist with Prime Explorations having a business address at 11th Floor, 808 West Hastings St., Vancouver, British Columbia.

2. I hold a Bachelor of Science Degree in Geology from McMaster University in Hamilton, Ontario, and a Master of Science Degree in Geology from the University of Western Ontario in London, Ontario.

3. I have practised my profession in mineral exploration continuously since graduation.

4. I am a member of the Association of Professional Engineers and Geoscientists of the Province of British Columbia, registered as Professional Geoscientist.

5. I am a Fellow of the Geological Association of Canada.

6. The information contained herein is based on field supervision of the exploration program and a review of existing technical data.

7. I have no interest in the property, nor do I beneficially own directly or indirectly any securities of Tantalus Resources Ltd.

8. I consent to and authorize the use of this report in any public document.

Peter J. Lougheed, P.Geo., F.G.A.C.

PROFESSIONAL ENGINEERS AND GEOSCIENTISTS PROVINCE OF BRITISH COLUMBIA P. LOUGHEED GEOSCIENTIST

Signed and dated this 11th day of December, 1992 at Vancouver, British Columbia.

STATEMENT OF QUALIFICATIONS

I, Mark T. Lapointe, of 711 Courtenay Road, Gibsons, British Columbia do hereby certify that:

1. I am currently a consulting geologist with a business address at 711 Courtenay Road, Gibsons, British Columbia, V0N 1V0.

2. I hold a Bachelor of Science Degree in Geology from Lake Superior State University in Sault Ste Marie, Michigan.

3. I have practised my profession in mineral exploration continuously since graduation.

4. The information contained herein is based on field supervision of the exploration program and a review of existing technical data.

5. I have no interest in the property, nor do I beneficially own directly or indirectly any securities of Tantalus Resources Ltd.

6. I consent to and authorize the use of this report in any public document.

Mark T. Lapointe, B.Sc.

Signed and dated this 11th day of December, 1992 at Vancouver, British Columbia.

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VANCOUVER STOCKWATCH
October 10, 1990.
October 30, 1990.
March 7, 1991.

A P P E N D I X I

ANALYTICAL RESULTS

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REPORT No.
S4688

INVOICE #: 19918
P.O.: 2S-272

SAMPLE(S) OF Rock

P. Lougheed
Project: TTUTC

	Au ppb	
19001	160	LCZ - orpiment
19002	<5	
19003	<5	
19004	<5	
19005	<5	LCZ east grab
19006	<5	
19007	15	
19008	<5	
19009	<5	
19010	20	
19011	25	
19012	70	LCZ, SW corner
19013	50	
19014	60	
19015	30	
19016	5	LCZ - orpiment

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S4706

INVOICE #: 19953
P.O.: PN:TTUTC/2S-273

SAMPLE(S) OF Rock

P. Lougheed
Project: TTUTC

	Au ppb	Au ozt	
19017	<5		LCZ - orpiment
19018	40		
19019	20		
19020	15		
19021	30		
19022	30		
19023	<5		LCZ - east samples
19024	50		
19025	170		
19026	>1000	.128/.126	FLOAT !!
19027	10		
19028	75		TG Grid
19029	180		
19030	<5		E of T.G.
19031	<5		
19032	<5		
19033	45		
19151	<5		N. TG

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INVOICE #: 19951
P.O.: PN:TTUTC/2S-276

SAMPLE(S) OF Rock

P. Loughead
Project: TTUTC

TG Grid

	Au ppb
19101	390
19102	100
19103	190
19104	10
19105	10
19106	150
19107	<5
19108	5
19109	<5
19110	310

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REPORT No.
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INVOICE #: 19974
P.O.: 2S-280

SAMPLE(S) OF Rock

P. Lougheed

	Au ppb	
711	70	
712	160	
713	10	
714	10	
715	15	
716	20	TG Chip Line #1
717	10	
718	15	
719	25	
720	35	
721	15	
722	10	
723	15	
724	20	
786	<5	
787	<5	Chip Line VR-5-3
788	<5	
789	<5	
790	<5	
791	<5	

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INVOICE #: 19974
P.O.: 28-280

SAMPLE(S) OF Rock

P. Lougheed

	Au ppb	
792	5	Chip Line VR-5-3
793	5	
794	5	
795	5	Chip Line VR-5-2
796	10	
797	5	
798	5	
799	5	
800	5	
19111	5	TG Grid South of L 13+14W (3-4S)
19112	5	
19113	10	
19114	15	
19115	5	
19116	65	
19117	10	
19118	10	
19119	10	
19120	20	
19121	5	TGG

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SAMPLE(S) OF Rock

P. Lougheed

	Au ppb	
711	70	TG Chip Line #1
712	160	
713	10	
714	10	
715	15	
716	20	
717	10	
718	15	
719	25	
720	35	
721	15	
722	10	
723	15	
724	20	
786	<5	Chip Line VR-5-3
787	<5	
788	<5	
789	<5	
790	<5	
791	<5	

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SAMPLE(S) OF Rock

P. Lougheed

	Au ppb	
792	5	Chip Line VR-5-3
793	5	
794	5	
795	5	Chip Line VR-5-2
796	10	
797	5	
798	5	
799	5	
800	5	
19111	5	TG Grid South of L 13+14W (3-4 S)
19112	5	
19113	10	
19114	15	
19115	5	
19116	65	
19117	10	
19118	10	
19119	10	
19120	20	
19121	5	TGC

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SAMPLE(S) OF Rock

P. Lougheed

	Au ppb	
19122	<5	TC Grid L 13-14W (2-35)
19123	10	
19124	10	
19125	40	
19126	35	
19127	5	
19128	<5	Sulphur knob
19129	35	
19130	55	
19131	10	
19132	10	
19133	40	
19134	15	
19135	15	
19136	10	
19137	5	
19138	30	
19139	110	
19140	10	
19141	<5	

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SAMPLE(S) OF Rock

P. Lougheed

	Au ppb	
19142	10	Sulphur Knob
19143	15	
19144	<5	
19145	<5	
19146	15	
19147	30	
19148	15	
19149	25	
19150	10	
19152	<5	TG Grid
19153	<5	
19154	<5	
19155	<5	Baseline Rocks
19156	25	
19157	25	
19158	10	
19159	10	
19160	40	Treaty Chip Line # 3
19161	60	
19162	80	

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SAMPLE(S) OF Rock

P. Lougheed

	Au ppb	
19163	20	Treaty Chip Line # 3
19164	15	
19165	40	
19166	15	
19167	290	
19168	50	
19169	10	
19170	15	
19171	10	
19201	<5	TG Grid
19202	10	
19203	10	
19204	25	
19205	35	
19206	<5	
19207	<5	
19208	65	
19209	10	
19210	10	TG Chip line # 4
19211	<5	

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SAMPLE(S) OF Rock

P. Lougheed

	Au ppb	
19212	<5	TG Chip Line # 4
19213	<5	
19214	<5	
19215	<5	
19216	<5	
19217	<5	
19218	25	
19219	20	
19251	25	Sulphur Knob
19252	45	
19253	25	
19254	45	
19255	40	
19256	30	
19257	30	
19258	20	
19259	5	
19260	10	
19261	25	
19262	30	

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SAMPLE(S) OF Rock

P. Lougheed

	Au ppb
19263	20
19264	35
19265	30
19266	20
19267	35
19268	25
19269	40
19270	30
19271	25
19272	20
19273	30
19274	30
19275	35
19276	35
19277	10
19278	40
19279	75
19280	45
19281	70
19282	45

Salphur Knob

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SAMPLE(S) OF Rock

P. Lougheed

	Au ppb	
19283	15	Sulphur Knob

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REPORT No.
S4721

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P.O.: 2S-282

SAMPLE(S) OF Rock

P. Lougheed
Project: TTUTC

	Au ppb	
704	<5	TG Grid - Baseline area
705	<5	
706	<5	
707	5	
708	90	
709	20	
710	55	
19034	<5	TG Grid area, alex
19035	<5	
19036	15	
19037	5	
19038	10	
19039	5	
19040	50	
19041	10	
19042	5	
19043	35	
19044	15	
19045	5	
19046	<5	

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S4721

INVOICE #: 19973
P.O.: 2S-282

SAMPLE(S) OF Rock

P. Lougheed
Project: TTUTC

	Au ppb	
19047	70	Nunatak S. of TG
19048	<5	
19049	<5	Chip line VR-5-2
19050	<5	
19051	<5	TG grid area
19301	<5	Chip Line VR-5-2
19302	<5	
19303	<5	Chip Line VR-5-1
19304	<5	
19305	<5	
19306	<5	
19307	<5	
19308	<5	

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REPORT No. 54718

INVOICE #: 19972
P.O.: PN:TTUTC/2S-281

SAMPLE(S) OF Rock

P. Lougheed
Project: TTUTC

	Au ppb	
✓725	15	Treaty Chip Line #1
✓726	20	
✓727	20	
✓728	25	
✓729	10	
✓730	20	
✓731	10	
✓732	25	
✓733	15	
✓734	10	
✓19053	5	Treaty Chip Line # 3
✓19054	<5	
✓19055	90	
✓19056	30	
✓19057	<5	
✓19058	40	
19172	<5	TR-92-1
19173	<5	
19174	10	
19175	35	

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REPORT No.
S4718

INVOICE #: 19972
P.O.: PN:TTUTC/2S-281

SAMPLE(S) OF Rock

P. Lougheed
Project: TTUTC

	Au ppb
19176	15
19177	<5
19178	<5
19179	<5
19180	<5
19181	<5
19182	<5
19183	<5
19184	<5
19185	<5
19186	<5
19187	<5
19188	<5
19189	<5
19190	<5
19191	<5
19192	<5
19193	<5
19194	<5
19195	<5

TR-92-1

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REPORT No. S4718

INVOICE #: 19972
P.O.: PN:TTUTC/28-281

SAMPLE(S) OF Rock

P. Lougheed
Project: TTUTC

	Au ppb	Au ozt	
19196	<5		TR-92-1
19197	<5		
19198	5		
19199	10		
19200	25		
19284	5		TG Grid L0-1W 0+50S → 1+00N Mark
19285	<5		
19286	<5		
19287	5		
19288	<5		
19289	<5		
19290	<5		
19309	<5		TG Grid by Chip line # 12
19310	<5		
19311	370		TG Grid L1SW 4+25-4+75N
19312	180		
19313	>1000	.038/.032	FLOAT Treaty Gossan

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REPORT No. S4722

INVOICE #: 19970
P.O.: 28-382

SAMPLE(S) OF Rock

P. Lougheed

	Au ppb	
735	<5	Chip Line TR #6
736	<5	
737	<5	
738	<5	
739	<5	
740	<5	
741	25	
742	<5	
743	20	
744	<5	Chip Line TR #5
745	<5	
746	<5	
747	<5	
748	<5	
19220	<5	Chip Line TR #1
19221	<5	
19222	<5	
19223	<5	
19224	<5	
19225	<5	

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P.O.: 2S-382

SAMPLE(S) OF Rock

P. Lougheed

	Au ppb	
19226	<5	Chip Line TR #1
19227	<5	
19228	<5	
19229	<5	
19230	<5	
19231	<5	
19232	<5	
19233	<5	
19234	<5	
19291	85	
19292	<5	TR Claims Grab
19293	<5	Chip Line TR-4
19294	<5	
19295	<5	
19296	<5	
19297	<5	
19298	<5	
19299	<5	
19300	<5	
19401	<5	

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REPORT No.
S4722

INVOICE #: 19970
P.O.: 2S-382

SAMPLE(S) OF Rock

P. Lougheed

	Au ppb	
19402	<5	Chip Line TR # 4
19403	<5	
19404	<5	

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REPORT No.
S4751

INVOICE #: 20003
P.O.: PN:TTUTC/28-294

SAMPLE(S) OF Rock

P. Lougheed
Project: TTUTC

	Au ppb
19473	10
19474	15
19475	25
19476	20
19477	40
19478	100
19479	190
19480	210

Treaty Chip Line # 8

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REPORT No. S4752

INVOICE #: 20012
P.O.: PN:TTUTC/2S-295

SAMPLE(S) OF Rock

P. Lougheed
Project: TTUTC

	Au ppb	
04501	5	Treaty Chip Line # 7
04502	10	
04503	20	
04504	10	
04505	5	
04506	5	Treaty Chip line # 6
04507	5	
04508	15	
04509	10	
04510	<5	
04511	<5	
04512	<5	
04513	<5	
04514	<5	
04515	10	
04516	<5	
04517	60	
04518	<5	
04519	<5	
04520	<5	

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INVOICE #: 20012
P.O.: PN:TTUTC/2S-295

SAMPLE(S) OF Rock

P. Lougheed
Project: TTUTC

		Au ppb	
	✓04521	<5	Treaty Chip Line #6
19447	19047	<5	
1448	19048	20	
1449	19049	15	Chip Line VR-5-2
19450	19050	35	
	19355	30	
	19356	55	Ridge top of TP claims
	19357	55	
	✓19358 AA	55	
	19359	55	
	19088	75	
	✓19089	45	
	✓19090	45	
	✓19091	30	
	✓19092	20	Treaty Chip Line #7
	✓19093	5	
	✓19094	5	
	✓19095	<5	
	✓19096	<5	
	✓19097	<5	

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REPORT No.
S4752

INVOICE #: 20012
P.O.: PN:TTUTC/26-295

SAMPLE(S) OF Rock

P. Lougheed
Project: TTUTC

	Au ppb	Au ozt	
19098	15		Treaty Chip Line # 7
19099	5		
19100	40		
6815	10		VR claim area
6816	20		
6817	150		
6818	250		
6819	90		
6820	90		
6821	55		TR-92-6A
6822	>1000	.030	Sulphide Knoll Trench
6823	230		
6824	65		
6825	20		
6826	30		
6827	50		
6828	20		
6829	<5		
6830	<5		
6831	<5		

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SAMPLE(S) OF Rock

P. Lougheed
Project: TTUTC

	Au ppb	
6832	<5	
6833	<5	
19331	15	
19332	<5	
19333	<5	
19334	<5	TG Grid Not Chip line #9
19335	<5	

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REPORT No.
S4753

INVOICE #: 20013
P.O.: PN:TTUTC/2S-296

SAMPLE(S) OF Rock

P. Lougheed
Project: TTUTC

	Au ppb
749	550
750	290
751	740
752	320
753	210
754	270
755	140
756	300
757	180
758	140
759	230
760	180
761	100
762	150
763	180
764	90
765	95
766	120
767	400
768	500

Treaty Chip Line # 5

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S4753

INVOICE #: 20013
P.O.: PN:TTUTC/2S-296

SAMPLE(S) OF Rock

P. Lougheed
Project: TTUTC

	Au ppb	
6801	10	Chip Line TR # 4
6802	10	
6803	35	
6804	15	
6805	10	
6806	10	
6807	10	
6808	10	
6809	10	
6810	20	
6811	20	
6812	10	
6813	15	
6814	15	
19069	90	LC-3
19070	410	
19071	240	
19072	360	
19073	320	
19074	200	

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S4753

INVOICE #: 20013
P.O.: PN:TTUTC/2S-296

SAMPLE(S) OF Rock

P. Lougheed
Project: TTUTC

	Au ppb	
19075	90	LC-3
19076	60	
19077	130	
19078	120	
19079	150	
19080	390	LC-2 7 ppm Ag
19081	430	9
19082	290	4

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SAMPLE(S) OF Rock

INVOICE #: 20014
P.O.: PN:TTUTC/2S-296

P. Lougheed
Project: TTUTC

	Au ppb	Au ozt		
19083	120		LC-2	
19084	200			
19085	300			
19086	140			
19087	120			
19235	310		Treaty Chip Line #5	
19236	550			
19237	130			
19238	240			
19239	440			
19240	440			
19241	>1000	.030		7 ppm Ag
19242	>1000	.032		15
19243	330			5
19244	180			6
19245	850			5
19246	570			9
19247	510			11
19248	780			12
19249	380			5

Treaty Gossan
Chip Line 5
Variably sericitized & Silicified Belly Creek Andesites

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INVOICE #: 20014
P.O.: PN:TTUTC/28-296

SAMPLE(S) OF Rock

P. Lougheed
Project: TTUTC

	Au ppb	Au ozt	
19250	370		Treaty chip Line #59 ppm Ag
19314	10		
19315	190		TG Chip line X-1
19316	330		
19317	270		
19318	65		
19319	200		
19320	65		
19321	190		
19322	5		
19323	620		TG Chip line X-2
19324	440		
19325	10		
19326	<5		LC-1
19327	<5		
19328	<5		
19329	>1000	.030	
19330	110		
19351	35		TR-92-3
19352	5		

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INVOICE #: 20014
P.O.: PN:TTUTC/2S-296

SAMPLE(S) OF Rock

P. Lougheed
Project: TTUTC

	Au ppb	
19353	20	TR-92-4
19354	45	
19405	30	TG Grid L17-18W 0+50 - 14+25S
19406	<5	
19407	10	
19408	10	
19409	<5	
19410	5	
19411	10	
19412	10	
19413	5	
19414	50	
19415	85	
19416	15	
19417	40	
19418	20	
19419	15	
19420	40	
19421	75	
19422	45	

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SAMPLE(S) OF Rock

P. Lougheed
Project: TTUTC

	Au ppb	
19423	20	TG Grid
19424	45	L 17 - 18W
19425	5	0+50 - 1+25S
19426	5	
19427	<5	
19428	<5	Chip Line TR # 1
19429	<5	
19430	<5	
19431	5	
19432	<5	
19433	10	
19434	5	
19435	5	
19436	<5	
19437	<5	Chip Line TR # 2
19438	45	
19439	5	
19440	<5	
19441	40	chip by TR-TR-92-1
19442	5	Chip line TR # 3

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SAMPLE(S) OF Rock

P. Lougheed
Project: TTUTC

	Au ppb	
19443	5	Chip line TR # 3
19444	10	
19445	5	
19446	35	

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INVOICE #: 20016
P.O.: 28-297

SAMPLE(S) OF Rock

P. Lougheed

	Au ppb	
769	200	
770	140	
771	420	
772	340	
773	370	
774	110	
775	330	
776	620	Treaty Chip Line # 5
777	770	
778	570	
779	320	
780	90	
781	150	
782	350	
783	25	
784	95	
785	45	
19059	120	Treaty Chip Line # 3
19060	190	
19061	170	

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REPORT No. S4760

INVOICE #: 20016
P.O.: 2S-297

SAMPLE(S) OF Rock

P. Lougheed

	Au ppb	
19062	25	Treaty Chip Line # 3
19063	110	
19064	30	
19065	45	
19066	10	TR-92-5
19067	10	
19068	10	
19451	5	Treaty Chip Line # 2
19452	<5	
19453	5	
19454	5	
19455	<5	
19456	10	
19457	15	
19458	5	
19459	5	
19460	30	
19461	50	
19462	70	
19463	10	

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INVOICE #: 20016
P.O.: 2S-297

SAMPLE(S) OF Rock

P. Lougheed

	Au ppb	
19464	30	
19465	15	
19466	40	
19467	50	Treaty Chip Line # 2
19468	30	
19469	50	
19470	35	
19471	75	
19481	100	
19482	40	
19483	50	
19484	30	
19485	20	
19486	30	TR-92-5
19487	60	
19488	30	
19489	40	
19490	50	
19491	60	
19492	40	

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REPORT No.
S4760

INVOICE #: 20016
P.O.: 2S-297

SAMPLE(S) OF Rock

P. Lougheed

	Au ppb
19493	15
19494	15
19495	10
19496	30
19497	5
19498	5
19499	15
19500	10

TR-92-5

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REPORT No.
S4786

INVOICE #: 20052
P.O.: PN:TTUTC/2S-309

SAMPLE(S) OF Rock

M. LaPointe
Project: TTUTC

	Au ppb	
✓04601	15	TR-TR-92-1 ✓
✓04602	15	
04603	50	LC Zone
04604	270	
04605	310	
04606	10	
04607	10	TR-6
04608	55	
04609	20	TR-7
04610	45	
04611	5	
04612	5	
✓04651	<5	
✓04652	<5	
✓04653	<5	
✓04654	<5	TR-TR-92-3 ✓
✓04655	<5	
✓04656	<5	
✓04657	10	
✓04658	<5	

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REPORT No. 64786

INVOICE #: 20052
P.O.: PN:TTUTC/28-309

SAMPLE(S) OF Rock

M. LaPointe
Project: TTUTC

	Au ppb
04659	<5
04660	<5
04661	<5
04662	<5
04663	<5
04664	10
04665	<5
04666	5
04667	<5
04668	5
04669	<5
04670	<5
04671	5
04672	<5
04673	<5
04674	5
04675	10
04676	5
04677	10
04678	<5

TR-TR-92-3

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REPORT No.
S4786

INVOICE #: 20052
P.O.: PN:TTUTC/2S-309

SAMPLE(S) OF Rock

M. LaPointe
Project: TTUTC

	Au ppb	
04679	<5	TR-TR-92-3
5101	10	
5102	65	
5103	10	
5104	10	
5105	40	TR-92-7
5106	50	
5107	15	

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REPORT No. S4796

INVOICE #: 20056
P.O.: PN:TTUTC/2S-309

SAMPLE(S) OF Rock

P. Lougheed
Project: TTUTC

	Au ppb	
5108	50	
5109	15	
5110	<5	
5111	5	
5112	65	
5113	10	
5114	5	
5115 ?	10	TR-92-7
5116 ?	5	
5117	10	
5118	100	
5119	65	
5120	20	
5121	25	
5122	20	
5123	15	
5124	5	
5125	<5	
5126	<5	
5127	20	

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REPORT No.
S4796

INVOICE #: 20056
P.O.: PN:TTUTC/28-309

SAMPLE(S) OF Rock

P. Lougheed
Project: TTUTC

	Au ppb
5128	<5
5129	<5
5130	5
5131	<5
5132	<5
5133	40
5134	<5
5135	<5
5136	<5
5137	<5
5138	<5
5139	15
5140	<5
5141	<5
5142	35
5143	830
5144	70
5145	20
5146	45
5147	30

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INVOICE #: 20056
P.O.: PN:TTUTC/2S-309

SAMPLE(S) OF Rock

P. Lougheed
Project: TTUTC

	Au ppb
6834	20
6835	10
6836	380
6837	140
6838	160
6839	250
6840	60
6841	55
6842	90
6843	70
6844	120
6845	850
6846	360
6847	85
6848	130
6849	160
6850	35
6851	110
6852	160
6853	220

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REPORT No.
S4796

INVOICE #: 20056
P.O.: PN:TTUTC/2S-309

SAMPLE(S) OF Rock

P. Lougheed
Project: TTUTC

	Au ppb
6854	200
6855	50
6856	25
6857	600
6858	360
6859	10
6860	10
6861	<5
6862	<5
6863	5
6864	10
6865	5
6866	<5
6867	<5
6868	10
6869	5
6870	5
6871	5
6872	<5
6873	<5

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SAMPLE(S) OF Rock

P. Lougheed
Project: TTUTC

	Au ppb
6874	<5
6875	<5
6876	<5
6877	<5
6878	<5
6879	<5
✓ 19336	<5
✓ 19337	<5
✓ 19338	65
✓ 19339	<5
✓ 19340	<5
✓ 19341	<5
✓ 19342	<5
✓ 19343	<5
✓ 19344	<5
✓ 19345	<5
✓ 19346	<5
✓ 19347	<5
✓ 19348	<5
✓ 19349	<5

TR-TR-92-1

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INVOICE #: 20056
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SAMPLE(S) OF Rock

P. Lougheed
Project: TTUTC

	Au ppb	
19350	<5	TR-TR-92-1
19360	<5	
19361	<5	TR-TR-92-2
19362	<5	
19363	<5	
19364	<5	
19365	<5	
19366	<5	
19367	<5	
19368	<5	
19369	10	
19370	<5	
19371	<5	
19372	<5	
19373	<5	
19374	<5	
19375	<5	
19376	40	
19377	<5	
19378	<5	

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INVOICE #: 20056
P.O.: PN:TTUTC/28-309

SAMPLE(S) OF Rock

P. Lougheed
Project: TTUTC

	Au ppb	
✓19379	<5	
✓19380	<5	
✓19381	<5	
✓19382	<5	
✓19383	<5	
✓19384	<5	
✓19385	<5	
✓19386	<5	TR-TR-92-2
✓19387	15	
✓19388	<5	
✓19389	35	
✓19390	5	
✓19391	<5	
✓19392	<5	
✓19393	<5	
✓19394	<5	
✓19395	120	TR-TR-92-3
✓19396	<5	
✓19397	<5	
✓19398	<5	

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SAMPLE(S) OF Rock

P. Lougheed
Project: TTUTC

	Au ppb	
✓19399	<5	TR-TR-92-3
✓19400	<5	

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S4798

INVOICE #: 20060
P.O.: PN:TTUTC/25-314

SAMPLE(S) OF Rock

P. Lougheed
Project: TTUTC

	Au ppb	
04522	<5	
04523	20	
04524	<5	
04525	<5	
04526	<5	
04527	<5	
04528	15	
04529	<5	
04530	<5	TR-VR-5-2
04531	<5	
04532	10	
04533	<5	
04534	<5	
04535	<5	
04536	<5	
04537	<5	
04538	<5	
04539	<5	
04613	<5	Treaty Chip line # 9
04614	<5	

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REPORT No. S4798

INVOICE #: 20060
P.O.: PN:TTUTC/25-314

SAMPLE(S) OF Rock

P. Lougheed
Project: TTUTC

	Au ppb	
04615	<5	Trench Chip line # 9
04616	<5	
04617	<5	
04618	<5	TG Grid N of L 11+12W
04619	<5	
04620	<5	
04621	<5	
04622	<5	TR-VR-5-1
04623	<5	
04624	<5	
04625	<5	
04626	<5	
04627	<5	TR-92-6B
04628	<5	
04629	10	
04630	<5	TG Grid L 11+50W 6+50N
04631	5	Chip line # 10 ?
04632	10	
04633	<5	
04634	5	

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REPORT No.
84798

INVOICE #: 20060
P.O.: PN:TTUTC/26-314

SAMPLE(S) OF Rock

P. Lougheed
Project: TTUTC

	Au ppb
04635	<5
04636	65
04637	5
04638	<5
04639	<5
04640	25
5159	5
5160	<5
5161	<5
5162	<5
5163	5
5164	<5
5165	5
5166	5
5167	5
5168	<5
5169	<5
5170	5
5171	20

Chip in # 10 ?

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REPORT No. S4805

INVOICE #: 20089
P.O.: PN:TTUTC/28-315

SAMPLE(S) OF Rock

P. Lougheed
Project: TTUTC

	Au ppb	
04540	<5	TR-VR-5-2
04541	<5	
04542	<5	
04543	<5	
04544	<5	
04545	<5	TR-VR-5-2
04546	<5	
04547	<5	
04548	<5	
04549	<5	
04550	<5	
04551	<5	TR-92-8
04552	<5	
04553	<5	
04554	<5	
04555	<5	
04556	<5	
04557	<5	
04558	<5	
04559	<5	

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REPORT No. S4805

INVOICE #: 20089
P.O.: PN:TTUTC/2S-315

SAMPLE(S) OF Rock

P. Lougheed
Project: TTUTC

	Au ppb	
04560	<5	TR-92-8
04561	<5	
04562	5	
04563	<5	
04564	20	
04565	<5	
04566	<5	
04567	<5	
04568	<5	
04569	<5	
04570	5	
04571	20	
04572	5	
04573	5	
04574	15	
04575	<5	
04576	<5	
04577	<5	
04578	<5	
04586	10	TR-92-9

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REPORT No. 84805

INVOICE #: 20089
P.O.: PN:TTUTC/2S-315

SAMPLE(S) OF Rock

P. Lougheed
Project: TTUTC

	Au ppb	
04587	100	TR-92-9
04588	10	
04589	<5	
04680	<5	TR-VR-5-2
04681	<5	
04682	<5	
04683	<5	
04684	<5	
04685	10	
5150	<5	
5151	<5	
5152	<5	
5153	20	
5154	<5	
5155	<5	
5156	<5	
5157	<5	
5158	<5	
5172	<5	Chip Line # 15 East Treaty Dil
5173	<5	

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REPORT No.
S4805

INVOICE #: 20089
P.O.: PN:TTUTC/28-315

SAMPLE(S) OF Rock

P. Lougheed
Project: TTUTC

	Au ppb
5174	<5
5175	<5
5176	<5
5177	<5
5178	25
5179	35
5180	50
5181	150
5182	5
5183	35
5184	10
5185	10
5186	5
5187	5
5188	120
5189	140
5190	10
5191	5
6880	<5
6881	<5

Chip Line #15
East Treaty Crk.

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SAMPLE(S) OF Rock

P. Lougheed
Project: TTUTC

	Au ppb
6882	<5
6883	<5
6884	20
6885	<5
6886	<5
6887	<5
6888	<5
6889	<5
6890	<5
6891	55
6892	<5
6893	<5
6894	<5
6896	5
6897	<5
6898	40
6899	5
6900	<5

Chip line #15
East Track, Dr.

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REPORT No. S4806

INVOICE #: 20120
P.O.: PN:TTUTC/2S-316

SAMPLE(S) OF Rock

P. Lougheed
Project: TTUTC

	Au ppb	
04579	<5	TR-92-8
04580	<5	
04581	<5	
04582	<5	
04583	<5	
04584	<5	
04585	20	
04590	<5	TR-92-10
04591	<5	
04592	<5	
04593	5	
04594	<5	
04595	<5	
04596	<5	
04597	<5	
04598	<5	
04686	10	Chip line # 11
04687	10	
04688	<5	
04689	<5	

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REPORT No. S4806

INVOICE #: 20120
P.O.: PN:TTUTC/2S-316

SAMPLE(S) OF Rock

P. Lougheed
Project: TTUTC

	Au ppb
04690	5
04691	20
04692	15
04693	15
04694	20
04695	10
04696	10
04697	<5
04698	5
04699	5
04700	10
5201	<5
5202	<5
5203	<5
5204	<5
5205	20
5206	<5
5207	<5
5208	<5
5209	5

Treaty Chip Line #11

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INVOICE #: 20120
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SAMPLE(S) OF Rock

P. Lougheed
Project: TTUTC

	Au ppb
5210	5
5211	<5
5212	5
5213	10
5214	5
5215	10
5216	20

Treaty Chip line # 11

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REPORT No. S4837

INVOICE #: 20135
P.O.: 2S-324

SAMPLE(S) OF Rock

P. Lougheed

	Au ppb	
1	5	TR-TR-92-4
2	10	
3	10	
4	<5	
5	5	
6	<5	
7	5	
8	<5	
04701	<5	Treaty Chip line # 13
04702	5	
04703	15	
04704	<5	
04705	5	
04706	20	
04707	<5	
04708	<5	
04709	<5	
04710	<5	
04711	<5	
04712	<5	

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REPORT No.
S4837

INVOICE #: 20135
P.O.: 2S-324

SAMPLE(S) OF Rock

P. Lougheed

	Au ppb
04713	<5
04714	<5
04715	20
04716	5
04717	<5
04718	<5
04719	10
04720	5
04721	10
04722	10
04723	10
04724	5
04725	35
04726	30
04727	25
04728	15
04729	15
04730	45
04731	55
04732	20

Treaty Chip line # 13

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REPORT No. 84837

INVOICE #: 20135
P.O.: 28-324

SAMPLE(S) OF Rock

P. Lougheed

	Au ppb	
04733	15	Treaty Chip line # 13
04734	20	
04735	10	
04736	20	
5001	<5	
5002	<5	
5003	15	
5004	<5	
5005	25	
5006	<5	
5007	<5	TG - Dead Trondlene Gulch
5008	<5	
5009	<5	
5010	<5	
5011	<5	
5012	<5	
5013	<5	
5014	10	
5015	<5	
5016	15	

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INVOICE #: 20135
P.O.: 2S-324

SAMPLE(S) OF Rock

P. Lougheed

	Au ppb
5017	<5
5018	<5
5019	10
5020	<5
5021	<5
5022	<5
5023	<5
5024	<5
5025	<5
5026	<5
5027	<5
5028	<5
5029	<5
5030	<5
5031	<5
5032	<5
5033	<5
5034	<5
5035	20
5036	<5

TG - dead trundle Gulch

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REPORT No. S4837

INVOICE #: 20135
P.O.: 28-324

SAMPLE(S) OF Rock

P. Lougheed

	Au ppb	
5037	<5	TG. dead trundlers gulch
5192	<5	TR-TR-92-4
5193	<5	
5194	<5	
5195	10	
5196	5	
5197	<5	
5198	20	
5199	<5	
5200	45	
5217	15	chip line #12 not plotted
5218	25	
5219	30	
5220	35	
5221	45	
5222	45	
5223	30	
5224	50	
5225	55	
5226	20	

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Sep 23/92

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TSL LABORATORIES

2 - 302 - 46th STREET, EAST
SASKATOON, SASKATCHEWAN
S7K 6A4
(306) 931-1033 FAX: (306) 242-4717

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Prime Explorations Ltd.
10th Floor - Box 10
808 West Hastings Street
Vancouver, B.C. V6C 2X6

REPORT No. S4837

INVOICE #: 20135
P.O.: 28-324

SAMPLE(S) OF Rock

P. Lougheed

	Au ppb
5227	15
5228	40
5229	30
5230	75
5231	25
5232	65
5233	40
5234	25
5235	20
5236	30
5237	30
5238	30
5239	35
5240	25
5241	30
5242	<5
5243	10
5244	10
5245	65
5246	35

Treaty Chip line # 12

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TSL LABORATORIES

2 - 302 - 48th STREET, EAST
SASKATOON, SASKATCHEWAN
S7K 6A4
(306) 931-1033 FAX: (306) 242-4717

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Prime Explorations Ltd.
10th Floor - Box 10
808 West Hastings Street
Vancouver, B.C. V6C 2X6

REPORT No. S4849

INVOICE #: 20137
P.O.: PN:TTUTC/2S-324

SAMPLE(S) OF Rock

P. Lougheed
Project: TTUTC

	Au ppb
5247	5
5248	20
5249	30
5250	95
5251	30
5252	30
5253	25
5254	25
5255	5
5256	10
5257	10
5258	10
5259	20
5260	10
5261	10
5262	25
5263	15
5264	25
5265	10
5266	35

Treaty Chip Line # 12

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For enquiries on this report, please contact Customer Service Department.
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TSL LABORATORIES

2 - 302 - 48th STREET, EAST
SASKATOON, SASKATCHEWAN
S7K 6A4
(306) 931-1033 FAX: (306) 242-4717

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Prime Explorations Ltd.
10th Floor - Box 10
808 West Hastings Street
Vancouver, B.C. V6C 2X6

REPORT No. 84849

INVOICE #: 20137
P.O.: PN:TTUTC/2S-324

SAMPLE(S) OF Rock

P. Lougheed
Project: TTUTC

	Au ppb
5267	25
5268	15
5269	25
5270	45
5271	20
5272	<5
5273	20
5274	5
5275	10
5276	<5
5277	5
5278	10
5279	5
5280	10
5281	15
5282	15
5283	15
5284	25
5285	15
5286	10

Treaty Chip line # 12

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SASKATOON, SASKATCHEWAN
S7K 6A4
(306) 931-1033 FAX: (306) 242-4717

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Prime Explorations Ltd.
10th Floor - Box 10
808 West Hastings Street
Vancouver, B.C. V6C 2X6

REPORT No. 84850

INVOICE #: 20136
P.O.: 2S-325

SAMPLE(S) OF Rock

P. Lougheed
Project: TTUTC

	Au ppb	
✓04751	<5	TR-TR-92-4
✓04752	<5	
✓04753	<5	
✓04754	<5	
✓04755	<5	
✓04756	<5	
✓04757	<5	
✓04758	<5	
✓04759	40	
5287	10	TR-92-11
5288	<5	
5289	5	

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Samples, Pulps and Rejects discarded two months from the date of this report

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PRIME EXP. RATIONS LTD
VANCOUVER B.C.
S4688
ATTN:P.LOUGHEED
PROJ.:TTUTC

780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

REPORT No. : T19
Page No. : 1 of 1
File No. : SE10MA
Date : SEP-22-1992

I.C.A.P. PLASMA SCAN

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SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
19001	< 1	0.12	720	< 10	25	< 1	10	<0.01	16	2	60	9	1.1	0.01	11	< 2	0.02	2	18	21	20	< 1	< 10	16	8	3	< 10	< 1	1	< 1
19002	1	0.09	280	< 10	9	< 1	20	0.01	7	4	45	25	5.2	0.01	50	< 2	0.02	2	20	450	90	< 1	20	12	14	4	< 10	< 1	7	2
19003	< 1	0.23	170	< 10	12	< 1	10	0.02	3	6	59	14	3.2	<0.01	31	< 2	0.03	2	52	370	60	< 1	10	36	17	7	< 10	< 1	4	1
19004	< 1	0.10	310	< 10	3	< 1	55	0.01	10	20	30	15	10	<0.01	34	< 2	0.02	4	54	360	130	< 1	60	14	12	7	< 10	1	40	11
19005	< 1	0.06	220	< 10	5	< 1	25	0.01	5	7	58	12	5.1	<0.01	34	< 2	0.01	2	36	440	110	< 1	30	7	17	5	< 10	< 1	8	2
19006	< 1	0.12	210	< 10	9	< 1	10	0.05	4	3	26	10	3.9	0.02	24	< 2	0.02	2	48	69	60	< 1	20	11	26	6	< 10	< 1	5	1
19007	< 1	0.10	80	< 10	11	< 1	45	0.01	1	24	28	22	3.0	<0.01	9	< 2	0.02	3	46	32	100	< 1	10	19	16	2	< 10	< 1	2	2
19008	< 1	0.12	60	< 10	10	< 1	20	<0.01	1	8	16	11	5.3	<0.01	16	< 2	0.02	2	46	24	25	< 1	30	19	10	5	< 10	< 1	3	3
19009	< 1	0.06	60	< 10	9	< 1	70	<0.01	< 1	6	37	8	4.6	<0.01	8	< 2	0.02	4	36	12	230	< 1	20	15	13	6	< 10	< 1	5	1
19010	< 1	0.27	60	< 10	70	< 1	25	0.06	1	1	30	14	6.4	0.04	88	< 2	0.02	2	160	46	70	< 1	< 10	21	71	23	< 10	1	9	4
19011	< 1	0.28	60	< 10	130	< 1	35	0.05	3	< 1	15	11	6.0	0.03	49	< 2	0.01	2	110	62	45	< 1	< 10	18	53	17	< 10	< 1	12	4
19012	< 1	0.32	65	< 10	190	< 1	20	0.07	2	2	20	16	4.9	0.05	75	< 2	0.02	2	150	95	55	< 1	< 10	25	110	28	< 10	1	14	2
19013	< 1	0.26	140	< 10	110	< 1	15	0.11	3	1	18	14	5.5	0.06	72	< 2	0.01	1	210	75	60	< 1	< 10	21	110	33	< 10	1	13	3
19014	< 1	0.21	350	< 10	130	< 1	35	0.08	7	2	23	12	7.9	0.04	69	< 2	0.01	2	370	88	220	< 1	< 10	23	94	96	< 10	1	9	5
19015	< 1	0.11	2900	< 10	7	< 1	10	0.02	68	5	33	10	3.7	<0.01	21	< 2	0.01	1	42	14	60	< 1	20	9	12	8	< 10	< 1	17	< 1
19016	< 1	0.09	360	< 10	5	< 1	10	<0.01	12	6	13	9	4.1	<0.01	12	< 2	0.01	1	30	6	10	< 1	20	4	8	7	< 10	< 1	240	< 1

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED :

TSL/92

...ora...re... ...SL/...AYE... La...ato...s
780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

PRIME EXPLORATIONS LTD
VANCOUVER B.C.
S4706
ATTN:P.LOUGHEED
PROJ.:TTUTC

REPORT No. : T19...
Page No. : 1 of 1
File No. : SE10MA
Date : SEP-22-1992

I.C.A.P. PLASMA SCAN

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SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
19017	< 1	0.09	610	< 10	10	< 1	< 5	<0.01	19	5	22	36	3.5	0.02	18	< 2	0.01	1	28	8	30	< 1	20	2	15	7	< 10	< 1	280	< 1
19018	< 1	0.13	1100	< 10	4	< 1	< 5	0.03	27	7	14	34	4.2	0.06	44	< 2	0.01	3	74	7	10	< 1	20	4	50	9	< 10	< 1	300	< 1
19019	< 1	0.18	2000	< 10	5	< 1	< 5	0.08	47	6	21	27	3.5	0.08	59	< 2	0.01	2	110	6	10	< 1	10	7	36	10	< 10	1	80	< 1
19020	< 1	0.15	290	< 10	6	< 1	< 5	0.04	7	4	20	25	3.1	0.06	42	< 2	0.01	2	78	6	20	< 1	< 10	6	70	10	< 10	< 1	94	< 1
19021	< 1	0.12	65	< 10	14	< 1	10	0.01	2	3	30	17	2.6	0.02	20	< 2	0.02	3	38	5	30	< 1	10	13	29	5	< 10	< 1	14	< 1
19022	< 1	0.24	40	< 10	54	< 1	< 5	0.17	< 1	2	30	18	1.3	0.08	77	< 2	0.03	1	140	11	< 5	< 1	< 10	32	120	12	< 10	1	16	< 1
19023	< 1	0.19	85	< 10	15	< 1	5	0.02	2	5	23	15	4.9	0.02	17	< 2	0.02	2	22	2	5	< 1	30	13	23	5	< 10	< 1	8	< 1
19024	< 1	0.10	50	< 10	180	< 1	10	0.01	< 1	< 1	78	13	0.71	<0.01	25	< 2	0.01	2	40	56	25	< 1	< 10	18	16	3	< 10	< 1	7	< 1
19025	< 1	0.04	90	< 10	35	< 1	< 5	0.01	2	1	87	17	1.5	0.01	31	< 2	0.01	3	10	19	15	< 1	< 10	5	14	3	< 10	< 1	18	< 1
19026	97	0.11	2300	< 10	25	< 1	5	8.1	65	4	26	900	3.5	0.13	7100	10	0.01	6	340	3700	210	5	< 10	230	6	8	< 10	10	1100	2
19027	3	0.36	70	< 10	5	< 1	< 5	0.46	2	3	15	38	5.2	0.03	190	< 2	0.04	4	2200	110	< 5	4	20	11	16	11	< 10	17	44	4
19028	2	0.40	60	< 10	9	< 1	< 5	0.39	1	3	21	21	3.0	0.23	140	< 2	0.02	1	1300	110	< 5	1	10	7	1200	13	< 10	4	35	2
19029	5	0.27	140	< 10	30	< 1	< 5	0.03	4	3	32	17	1.9	0.03	23	4	0.02	5	540	82	< 5	1	< 10	4	29	13	< 10	1	15	< 1
19030	< 1	0.43	20	< 10	64	< 1	< 5	0.28	< 1	2	29	9	0.87	0.10	120	4	0.03	2	200	43	< 5	< 1	< 10	16	620	4	< 10	2	16	8
19031	< 1	0.46	40	< 10	83	< 1	< 5	0.04	< 1	< 1	30	9	1.4	0.25	73	4	0.02	1	130	23	< 5	< 1	< 10	4	860	6	< 10	1	25	6
19032	< 1	0.23	10	< 10	170	< 1	< 5	0.10	< 1	2	34	8	1.3	0.03	73	< 2	0.05	1	170	30	< 5	< 1	< 10	7	35	3	< 10	3	18	3
19033	< 1	0.22	10	< 10	110	< 1	< 5	1.6	< 1	1	36	9	0.74	0.02	280	< 2	0.04	1	170	34	< 5	< 1	< 10	45	12	2	< 10	4	10	1
19051	< 1	1.4	20	< 10	200	< 1	15	4.2	1	10	5	36	4.2	0.82	1100	< 2	0.03	1	1200	14	< 5	4	< 10	130	12	38	< 10	15	110	3

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

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I ora res L/ AYE Lat to: s
780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

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REPORT No. : T19
Page No. : 1 of 1
File No. : SE10MA
Date : SEP-22-1992

I.C.A.P. PLASMA SCAN

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SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
19101	2	0.52	70	< 10	9	< 1	10	0.87	2	15	47	30	4.7	0.41	200	< 2	0.04	31	1300	180	< 5	3	10	15	34	37	< 10	6	29	2
19102	< 1	0.79	100	< 10	12	< 1	< 5	0.68	2	11	26	22	4.6	0.52	200	< 2	0.03	12	1900	38	< 5	3	10	11	800	45	< 10	8	31	6
19103	< 1	0.84	190	< 10	28	< 1	5	1.2	4	19	42	44	2.8	0.57	280	< 2	0.05	20	1800	18	< 5	5	< 10	19	1200	130	< 10	9	74	9
19104	< 1	3.6	65	< 10	36	< 1	5	0.61	2	18	130	49	5.3	1.3	960	< 2	0.02	96	1900	22	< 5	11	< 10	14	810	170	< 10	13	240	8
19105	< 1	2.2	35	< 10	27	< 1	< 5	1.0	< 1	4	13	5	3.5	1.1	690	< 2	0.03	1	1700	11	< 5	3	< 10	14	1400	54	< 10	13	140	6
19106	< 1	0.47	95	< 10	30	< 1	< 5	0.12	2	3	24	9	1.9	0.31	74	< 2	0.01	10	380	28	< 5	2	< 10	4	800	10	< 10	10	22	2
19107	< 1	1.2	< 5	< 10	260	< 1	10	6.1	< 1	19	12	12	5.2	0.65	790	< 2	0.02	8	1700	12	< 5	13	< 10	51	340	100	< 10	19	87	9
19108	< 1	0.61	10	< 10	190	< 1	10	6.7	< 1	17	7	2	3.4	0.63	670	< 2	0.02	5	930	7	< 5	8	< 10	51	170	61	< 10	13	64	6
19109	< 1	0.32	< 5	< 10	58	< 1	< 5	0.85	< 1	2	45	8	0.85	0.12	220	< 2	0.03	2	160	11	< 5	< 1	< 10	44	17	4	< 10	4	26	3
19110	4	0.23	35	< 10	140	< 1	< 5	0.09	2	1	14	29	0.98	0.04	19	10	0.01	< 1	390	2000	< 5	2	< 10	8	12	5	< 10	1	79	< 1

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

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Laboratoires ISL/ISLAYE Laboratories
780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

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S4717
ATTN:P LOUGHEED

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File No. : SE14MA
Date : SEP-23-1992

RECEIVED OCT - 5 1992

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
711	16	0.18	80	< 10	108	< 1	< 5	0.03	2	< 1	38	19	1.59	0.03	24	2	0.03	4	92	312	15	< 1	< 10	47	12	2	< 10	< 1	11	9
712	2	2.76	195	< 10	45	< 1	< 5	0.76	6	13	13	144	5.84	0.85	1772	6	0.02	4	2032	422	15	8	< 10	53	7	62	< 10	10	255	32
713	< 1	2.35	120	< 10	29	< 1	< 5	2.06	4	17	12	161	5.91	0.76	2562	6	0.02	3	1536	71	10	5	< 10	69	5	45	< 10	15	251	32
714	< 1	2.33	105	< 10	18	< 1	< 5	1.34	3	11	13	170	5.79	0.82	1093	6	0.02	3	1710	65	10	7	< 10	46	5	55	< 10	12	185	33
715	1	2.99	135	< 10	30	< 1	< 5	2.24	5	18	10	200	6.58	0.90	2099	6	0.02	2	2082	72	10	9	< 10	65	5	81	< 10	17	256	39
716	< 1	2.37	90	< 10	18	< 1	< 5	3.99	4	14	13	74	5.34	0.78	1931	4	0.02	2	1570	82	10	7	< 10	108	4	52	< 10	13	153	29
717	< 1	2.91	105	< 10	144	< 1	< 5	3.23	5	13	16	68	4.88	0.86	1859	4	0.02	2	1436	69	15	6	< 10	142	5	61	< 10	13	159	26
718	< 1	2.16	85	< 10	18	< 1	< 5	2.99	3	12	11	68	5.11	0.77	1633	4	0.02	2	1546	85	5	5	< 10	106	5	40	< 10	12	138	26
719	< 1	2.50	130	< 10	15	< 1	< 5	2.29	3	11	12	30	6.00	0.90	1602	8	0.03	2	1996	111	15	6	< 10	71	6	64	< 10	10	178	32
720	1	1.64	105	< 10	17	< 1	< 5	2.38	2	9	13	100	4.19	0.71	1729	6	0.03	2	1232	119	5	4	< 10	68	6	31	< 10	9	129	21
721	< 1	1.89	110	< 10	19	< 1	< 5	1.98	5	11	11	113	4.63	0.83	2354	6	0.02	2	1154	109	10	4	< 10	61	4	34	< 10	9	168	24
722	< 1	2.49	125	< 10	25	< 1	< 5	1.90	2	11	11	77	5.65	0.96	2752	6	0.02	2	1618	74	15	5	< 10	54	8	52	< 10	12	199	29
723	2	1.52	155	< 10	34	< 1	< 5	0.41	4	6	14	68	4.62	0.71	1167	6	0.03	1	1518	181	10	3	< 10	48	5	36	< 10	7	146	22
724	< 1	1.74	115	< 10	82	< 1	< 5	0.74	4	5	21	35	3.90	0.70	1539	4	0.03	< 1	1176	83	5	3	< 10	49	5	37	< 10	6	130	19
786	< 1	0.85	75	< 10	71	< 1	< 5	0.05	4	2	11	5	5.00	0.16	89	20	0.04	5	946	44	< 5	5	< 10	24	7	15	< 10	3	34	24
787	< 1	0.96	60	< 10	132	< 1	< 5	0.09	3	< 1	27	< 1	4.41	0.21	81	22	0.06	3	868	41	< 5	4	< 10	32	8	10	< 10	7	42	22
788	< 1	1.09	65	< 10	89	< 1	< 5	0.13	2	2	34	< 1	3.35	0.35	112	22	0.06	6	782	41	10	5	< 10	11	12	11	< 10	11	54	17
789	< 1	0.79	45	< 10	53	< 1	< 5	0.19	1	1	26	< 1	3.51	0.26	203	6	0.06	2	852	28	< 5	6	< 10	11	19	10	< 10	9	57	19
790	< 1	1.63	75	< 10	53	< 1	< 5	0.23	2	2	24	< 1	5.69	0.50	474	10	0.05	2	1042	47	15	10	< 10	9	21	16	< 10	14	135	32
791	< 1	0.55	50	< 10	54	< 1	< 5	0.13	3	1	35	< 1	3.66	0.12	98	8	0.08	2	844	26	10	7	< 10	14	19	9	< 10	7	33	19
792	< 1	0.33	35	< 10	62	< 1	< 5	0.13	2	2	42	< 1	3.58	0.10	52	8	0.08	3	764	21	< 5	5	< 10	14	25	8	< 10	6	34	19
793	< 1	0.28	30	< 10	79	< 1	< 5	0.06	2	< 1	31	< 1	2.81	0.03	32	4	0.06	1	700	19	10	5	< 10	15	25	4	< 10	5	27	15
794	< 1	0.49	35	< 10	83	< 1	< 5	0.10	2	< 1	23	< 1	3.39	0.10	48	6	0.06	1	876	26	< 5	7	< 10	15	20	7	< 10	6	31	17
795	< 1	0.82	75	< 10	102	< 1	< 5	0.08	3	2	25	< 1	3.87	0.21	59	8	0.05	3	644	35	< 5	4	< 10	9	12	10	< 10	8	34	18
796	1	0.94	365	< 10	99	< 1	< 5	0.02	11	3	20	< 1	8.05	0.21	65	16	0.03	2	366	42	< 5	6	< 10	6	10	28	< 10	8	63	40
797	< 1	0.98	155	< 10	143	< 1	< 5	0.17	4	2	39	< 1	4.52	0.18	118	8	0.05	5	1058	41	< 5	5	< 10	26	11	13	< 10	20	66	21
798	< 1	0.94	80	< 10	190	< 1	< 5	0.06	3	1	13	< 1	4.15	0.15	45	6	0.05	2	702	41	< 5	4	< 10	18	6	7	< 10	8	45	20
799	< 1	1.37	305	< 10	129	< 1	< 5	0.08	8	4	14	< 1	7.26	0.25	133	12	0.04	4	350	50	< 5	8	< 10	16	7	20	< 10	7	74	35
800	1	1.63	450	< 10	44	< 1	< 5	0.13	11	7	17	< 1	7.54	0.37	111	12	0.04	6	618	59	< 5	11	< 10	20	9	67	< 10	15	84	39
19111	< 1	1.51	85	< 10	121	< 1	< 5	4.33	2	7	37	2	3.17	0.60	1496	2	0.03	6	608	33	< 5	2	< 10	63	20	13	< 10	17	86	17
19112	< 1	2.18	100	< 10	365	< 1	< 5	2.82	2	9	19	7	3.66	0.76	1414	6	0.04	7	822	44	10	2	< 10	54	7	24	< 10	13	90	20
19113	1	2.21	105	< 10	120	< 1	< 5	0.92	3	10	19	2	5.33	0.79	1144	6	0.03	8	1108	49	5	2	< 10	26	14	22	< 10	11	148	29
19114	1	1.16	70	< 10	15	< 1	< 5	2.56	2	14	12	11	4.56	0.51	1093	6	0.03	11	806	48	< 5	2	< 10	36	2	7	< 10	10	58	24
19115	< 1	0.57	70	< 10	17	< 1	< 5	3.97	3	8	13	2	4.17	0.27	1492	6	0.03	8	812	29	< 5	1	< 10	51	< 1	< 1	< 10	11	78	23
19116	3	1.39	95	< 10	24	< 1	< 5	3.29	3	8	15	8	3.79	0.60	1457	4	0.03	6	764	42	< 5	2	< 10	45	3	9	< 10	11	147	21

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED : Bernie Dunn

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REPORT No. : T195
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File No. : SE14MA
Date : SEP-23-1992

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
19117	< 1	1.38	60	< 10	23	< 1	< 5	3.25	1	9	18	1	3.61	0.59	1304	4	0.04	6	868	38	< 5	2	< 10	46	2	10	< 10	11	101	20
19118	< 1	1.38	70	< 10	19	< 1	< 5	3.34	2	8	15	< 1	4.20	0.61	1406	6	0.04	6	838	39	5	2	< 10	48	1	9	< 10	12	93	23
19119	< 1	0.90	50	< 10	18	< 1	< 5	4.03	2	6	16	4	3.49	0.41	1416	4	0.03	6	786	32	< 5	2	< 10	54	< 1	3	< 10	11	92	18
19120	< 1	1.62	80	< 10	38	< 1	< 5	3.13	2	10	16	8	4.10	0.64	1307	6	0.03	10	860	47	5	2	< 10	44	2	13	< 10	11	121	22
19121	< 1	0.77	40	< 10	13	< 1	< 5	0.14	1	8	14	3	3.99	0.34	305	4	0.04	5	282	55	< 5	2	< 10	12	3	3	< 10	3	23	22
19122	< 1	0.72	35	< 10	12	< 1	< 5	4.96	2	10	15	< 1	3.44	0.39	1226	4	0.04	13	784	24	< 5	1	< 10	66	15	5	< 10	11	28	16
19123	< 1	0.59	80	< 10	125	< 1	< 5	0.18	2	3	18	8	3.14	0.31	214	6	0.04	2	890	41	5	2	< 10	20	16	7	< 10	3	80	14
19124	< 1	2.98	160	< 10	233	< 1	< 5	0.08	4	4	12	112	7.11	1.05	1134	10	0.02	2	1238	72	20	4	< 10	23	15	37	< 10	6	303	34
19125	1	1.94	105	< 10	19	< 1	< 5	4.33	3	13	22	56	4.77	0.82	2654	6	0.03	2	1416	51	10	5	< 10	121	17	36	< 10	10	122	25
19126	< 1	1.36	145	< 10	39	< 1	< 5	2.30	4	10	12	37	3.88	0.59	954	4	0.02	3	854	69	5	4	< 10	61	195	36	< 10	8	89	22
19127	< 1	3.41	155	< 10	33	< 1	< 5	0.49	3	9	154	13	6.37	1.22	2210	6	0.02	46	848	86	15	9	< 10	45	2667	103	< 10	3	100	37
19128	< 1	0.75	40	< 10	43	< 1	< 5	0.64	1	5	12	2	2.79	0.38	410	6	0.03	1	862	32	< 5	1	< 10	20	29	11	< 10	7	60	15
19129	2	0.29	50	< 10	59	< 1	< 5	0.05	2	< 1	42	11	1.17	0.07	42	< 2	0.02	< 1	226	90	< 5	< 1	< 10	13	23	3	< 10	1	36	9
19130	3	0.19	80	< 10	15	< 1	< 5	0.03	3	4	39	4	3.11	0.03	35	24	0.02	1	390	38	< 5	1	< 10	8	14	< 1	< 10	< 1	22	17
19131	< 1	0.46	25	< 10	41	< 1	< 5	0.68	1	5	28	3	3.12	0.17	259	4	0.03	1	968	34	< 5	1	< 10	20	354	5	< 10	7	51	18
19132	< 1	1.23	55	< 10	45	< 1	< 5	1.70	2	6	15	4	3.17	0.63	1269	4	0.02	2	898	31	< 5	1	< 10	26	115	12	< 10	12	148	18
19133	1	0.84	35	< 10	23	< 1	< 5	0.19	6	6	27	24	2.52	0.49	343	6	0.02	< 1	686	206	< 5	1	< 10	8	39	10	< 10	4	279	19
19134	< 1	0.94	50	< 10	26	< 1	< 5	1.45	< 1	7	9	3	2.97	0.56	788	4	0.03	2	872	43	< 5	1	< 10	25	8	15	< 10	9	84	16
19135	1	0.69	35	< 10	18	< 1	< 5	0.41	2	6	24	4	3.14	0.36	334	6	0.03	1	902	60	< 5	< 1	< 10	42	12	5	< 10	5	93	18
19136	< 1	0.36	20	< 10	26	< 1	< 5	0.28	1	4	13	2	2.16	0.09	63	2	0.03	< 1	762	33	< 5	< 1	< 10	15	8	5	< 10	4	25	11
19137	< 1	0.54	30	< 10	19	< 1	< 5	1.01	1	8	24	6	2.95	0.17	314	6	0.03	1	964	30	< 5	1	< 10	26	10	7	< 10	9	54	16
19138	< 1	0.31	30	< 10	41	< 1	< 5	0.22	< 1	3	12	1	1.68	0.07	50	4	0.03	< 1	698	24	< 5	< 1	< 10	15	8	2	< 10	3	22	11
19139	< 1	0.76	35	< 10	18	< 1	< 5	1.76	3	7	28	4	3.72	0.44	888	4	0.03	1	970	37	< 5	1	< 10	30	7	4	< 10	10	100	18
19140	< 1	1.19	75	< 10	26	< 1	< 5	2.29	3	7	15	3	3.82	0.65	1647	6	0.03	1	1018	44	< 5	2	< 10	33	6	9	< 10	12	106	18
19141	< 1	1.04	60	< 10	26	< 1	< 5	4.00	2	7	22	5	3.37	0.60	2422	4	0.02	< 1	842	71	10	1	< 10	57	3	6	< 10	14	84	17
19142	< 1	1.06	60	< 10	35	< 1	< 5	1.56	3	6	17	6	3.27	0.70	1735	4	0.02	1	836	62	10	1	< 10	23	10	15	< 10	8	95	16
19143	1	0.95	65	< 10	25	< 1	< 5	2.65	2	8	20	7	3.64	0.55	2196	4	0.02	1	936	41	< 5	1	< 10	38	12	11	< 10	11	114	19
19144	< 1	0.68	45	< 10	20	< 1	< 5	2.20	2	8	14	7	3.48	0.34	1023	6	0.02	2	996	34	< 5	1	< 10	34	12	7	< 10	10	95	17
19145	< 1	0.56	45	< 10	19	< 1	< 5	1.31	2	6	20	4	2.95	0.26	492	6	0.03	< 1	940	29	< 5	< 1	< 10	24	15	6	< 10	8	81	16
19146	1	0.64	30	< 10	26	< 1	< 5	5.96	2	4	35	3	2.49	0.36	1600	6	0.02	1	488	23	< 5	< 1	< 10	132	12	7	< 10	11	64	13
19147	2	0.48	35	< 10	12	< 1	< 5	1.08	3	6	18	4	3.24	0.27	422	6	0.02	< 1	816	50	< 5	< 1	< 10	48	13	3	< 10	6	142	17
19148	< 1	1.07	55	< 10	34	< 1	< 5	0.54	2	7	14	2	3.92	0.59	867	4	0.03	< 1	1056	40	< 5	< 1	< 10	42	32	10	< 10	9	190	21
19149	< 1	0.65	45	< 10	21	< 1	< 5	0.80	2	6	20	3	3.07	0.32	443	6	0.03	1	958	36	< 5	< 1	< 10	40	84	8	< 10	9	87	18
19150	1	0.75	40	< 10	17	< 1	< 5	0.80	4	6	15	28	3.13	0.48	481	4	0.03	2	962	135	< 5	1	< 10	41	57	11	< 10	9	349	19
19152	< 1	4.56	185	< 10	196	< 1	< 5	1.37	4	32	102	10	9.20	1.19	2641	10	0.03	42	938	92	20	18	< 10	30	3333	254	< 10	24	150	75

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED : Bernie Quinn

TSL/92

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REPORT No. : T19...
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File No. : SE14MA
Date : SEP-23-1992

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
19153	< 1	1.57	70	< 10	35	< 1	< 5	0.36	1	4	30	19	4.60	0.64	452	20	0.03	12	844	50	5	6	< 10	7	1454	49	< 10	10	64	31
19154	< 1	1.52	60	< 10	106	< 1	< 5	2.26	2	8	37	26	2.94	0.80	929	2	0.05	12	764	43	5	5	< 10	73	555	57	< 10	11	84	19
19155	1	3.95	175	< 10	214	< 1	< 5	3.04	4	21	54	26	6.27	1.23	1319	8	0.03	36	2244	74	15	12	< 10	121	47	165	20	15	122	36
19156	< 1	1.05	165	< 10	86	< 1	< 5	0.17	7	2	16	63	7.15	0.27	139	14	0.06	6	3838	72	< 5	2	< 10	357	27	30	< 10	5	32	33
19157	< 1	4.72	325	< 10	63	< 1	< 5	0.29	6	4	20	95	6.00	0.91	1032	8	0.03	11	1944	102	20	9	< 10	61	24	161	< 10	6	76	32
19158	< 1	0.76	40	< 10	22	< 1	< 5	0.20	2	6	17	15	3.66	0.32	259	6	0.03	2	940	36	< 5	2	< 10	12	38	10	< 10	4	42	18
19159	< 1	2.11	95	< 10	27	< 1	< 5	1.47	5	19	59	58	6.27	1.02	2017	8	0.03	32	1410	95	10	7	< 10	37	1113	75	< 10	10	180	35
19160	2	3.36	395	< 10	74	< 1	< 5	0.21	7	10	90	101	5.19	1.09	1085	4	0.02	59	2940	297	20	10	< 10	835	10	105	< 10	5	353	28
19161	2	2.58	345	< 10	54	< 1	< 5	0.15	8	9	66	89	6.03	0.99	912	8	0.02	44	2336	305	15	7	< 10	561	9	97	< 10	4	278	31
19162	2	2.64	565	< 10	29	< 1	< 5	0.14	11	12	65	45	6.81	0.95	927	10	0.02	30	3056	184	15	7	< 10	591	8	84	< 10	4	153	33
19163	2	1.91	605	< 10	17	< 1	< 5	0.18	14	8	14	47	6.25	0.84	1085	6	0.02	3	3052	133	20	5	< 10	389	7	62	< 10	2	110	30
19164	1	2.01	445	< 10	46	< 1	< 5	0.11	10	6	35	44	5.95	0.91	1230	6	0.02	21	2824	81	10	4	< 10	129	17	67	< 10	2	87	28
19165	1	3.10	400	< 10	41	< 1	< 5	0.22	10	12	76	54	6.15	1.13	1862	6	0.02	53	2628	109	20	5	< 10	129	83	78	< 10	4	151	30
19166	2	0.67	435	< 10	59	< 1	< 5	0.03	11	2	13	23	4.26	0.47	467	4	0.02	1	1244	83	5	1	< 10	115	19	16	< 10	1	43	18
19167	2	3.06	525	< 10	63	< 1	< 5	0.22	11	12	84	42	6.05	1.14	2511	6	0.02	54	2798	107	25	6	< 10	88	39	78	< 10	4	190	30
19168	2	0.65	370	< 10	17	< 1	< 5	0.11	9	8	13	37	4.02	0.43	504	4	0.02	1	612	66	10	< 1	< 10	47	7	7	< 10	2	42	16
19169	2	0.98	560	< 10	20	< 1	< 5	0.24	14	10	12	81	4.83	0.61	713	6	0.02	3	664	69	< 5	1	< 10	71	6	14	< 10	3	62	21
19170	1	1.14	475	< 10	17	< 1	< 5	0.69	14	8	16	109	6.23	0.62	901	8	0.02	3	1490	76	5	1	< 10	176	4	16	< 10	5	94	29
19171	1	0.92	355	< 10	25	< 1	< 5	0.49	10	6	12	47	3.83	0.53	735	4	0.02	2	916	56	5	1	< 10	122	4	14	< 10	3	74	16
19201	< 1	0.32	30	< 10	16	< 1	< 5	4.76	3	7	11	< 1	3.99	0.22	1511	6	0.03	1	1084	21	< 5	2	< 10	96	1	< 1	< 10	9	44	18
19202	< 1	0.28	80	< 10	18	< 1	< 5	2.52	4	6	16	1	3.42	0.11	481	6	0.02	3	200	51	< 5	2	< 10	133	3	1	< 10	9	47	16
19203	1	2.53	95	< 10	201	< 1	< 5	1.64	2	24	21	17	5.53	1.05	1051	6	0.03	14	942	73	25	12	< 10	69	14	85	< 10	9	95	32
19204	2	0.28	50	< 10	12	< 1	< 5	0.09	2	6	13	14	3.51	0.10	38	6	0.02	2	610	34	< 5	< 1	< 10	37	5	2	< 10	2	6	15
19205	< 1	1.30	140	< 10	47	< 1	< 5	0.31	4	4	22	40	4.41	0.77	607	8	0.02	9	1564	110	10	3	< 10	21	1273	46	< 10	5	91	24
19206	< 1	0.25	20	< 10	102	< 1	< 5	0.04	< 1	< 1	13	1	1.37	0.12	70	< 2	0.04	< 1	422	23	< 5	< 1	< 10	25	815	8	< 10	< 1	14	10
19207	< 1	1.39	95	< 10	136	< 1	< 5	0.02	2	6	89	12	3.62	0.72	481	4	0.02	18	790	34	< 5	6	< 10	23	165	58	< 10	2	62	19
19208	< 1	0.48	80	< 10	32	< 1	< 5	0.17	2	5	13	8	3.19	0.24	142	6	0.02	1	1438	51	< 5	3	< 10	51	9	20	< 10	2	34	16
19209	< 1	0.28	70	< 10	15	< 1	< 5	0.16	3	5	32	< 1	3.85	0.17	168	6	0.02	2	3422	49	< 5	6	< 10	43	92	< 1	< 10	1	17	21
19210	< 1	0.62	20	< 10	605	< 1	< 5	1.13	1	13	10	24	2.71	0.17	602	4	0.02	1	506	20	< 5	1	< 10	71	75	12	< 10	9	77	14
19211	< 1	0.73	20	< 10	361	< 1	< 5	0.18	2	7	12	20	3.12	0.17	388	6	0.02	< 1	476	22	< 5	1	< 10	29	153	20	< 10	6	80	15
19212	< 1	0.56	35	< 10	35	< 1	< 5	0.12	1	10	9	72	2.87	0.19	261	10	0.02	2	290	31	< 5	< 1	< 10	7	325	9	< 10	3	58	16
19213	< 1	0.28	20	< 10	22	< 1	< 5	0.13	2	12	10	10	3.50	0.10	133	6	0.03	3	290	29	< 5	< 1	< 10	6	223	6	< 10	4	52	18
19214	< 1	0.24	20	< 10	24	< 1	< 5	0.14	2	9	8	4	3.85	0.06	102	8	0.04	2	554	33	< 5	< 1	< 10	34	204	2	< 10	5	46	18
19215	< 1	0.33	20	< 10	37	< 1	< 5	0.13	1	7	12	10	2.99	0.11	135	6	0.03	1	486	24	< 5	1	< 10	21	381	3	< 10	4	53	15
19216	< 1	0.29	30	< 10	41	< 1	< 5	0.04	2	3	19	14	2.87	0.09	99	6	0.04	< 1	732	26	< 5	1	< 10	45	747	5	< 10	3	38	17

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED : Bernie Quan

TSL/92

PRIME EXP RATIONS LTD
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REPORT No. : T19

File No. : SE14MA
Date : SEP-23-1992

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
19217	< 1	0.22	20	< 10	32	< 1	< 5	0.05	1	3	16	9	3.30	0.08	69	8	0.04	1	726	50	< 5	< 1	< 10	46	482	2	< 10	2	17	19
19218	< 1	1.23	75	< 10	30	< 1	< 5	0.18	3	7	9	29	4.45	0.78	1221	8	0.03	< 1	1066	171	< 5	1	< 10	100	184	14	< 10	4	110	25
19219	2	1.80	45	10	19	< 1	< 5	0.18	< 1	7	22	44	4.20	0.89	1800	6	0.03	7	1100	180	< 5	2	< 10	110	27	19	< 10	3	200	< 1
19251	< 1	0.56	30	< 10	19	< 1	< 5	0.34	2	4	11	5	2.65	0.41	254	6	0.02	< 1	882	138	< 5	< 1	< 10	80	61	9	< 10	6	107	14
19252	1	0.21	80	< 10	8	< 1	< 5	0.83	4	4	21	11	3.90	0.12	188	20	0.02	< 1	258	97	< 5	< 1	< 10	35	21	< 1	< 10	4	103	20
19253	< 1	0.51	30	< 10	23	< 1	< 5	0.20	2	3	16	6	2.39	0.36	338	6	0.02	< 1	886	106	< 5	< 1	< 10	31	8	4	< 10	4	120	13
19254	1	0.52	30	< 10	21	< 1	< 5	0.22	2	5	13	8	2.57	0.39	381	6	0.02	< 1	888	142	< 5	< 1	< 10	26	7	3	< 10	4	149	14
19255	< 1	0.19	20	< 10	16	< 1	< 5	0.11	1	5	12	28	2.38	0.04	28	2	0.02	< 1	266	39	< 5	< 1	< 10	12	5	< 1	< 10	2	17	12
19256	< 1	0.21	50	< 10	23	< 1	< 5	0.16	2	4	13	37	1.86	0.08	57	2	0.02	2	402	256	< 5	< 1	< 10	7	5	< 1	< 10	2	43	10
19257	< 1	0.74	135	< 10	16	< 1	< 5	0.31	5	5	12	24	3.43	0.53	397	4	0.02	1	968	169	< 5	< 1	< 10	13	7	11	< 10	6	185	18
19258	< 1	0.69	35	< 10	26	< 1	< 5	0.17	9	3	14	47	2.43	0.51	341	2	0.02	< 1	602	825	< 5	< 1	< 10	52	4	9	< 10	3	659	16
19259	1	0.31	25	< 10	10	< 1	< 5	0.28	3	7	10	< 1	4.36	0.16	180	8	0.03	< 1	1204	50	< 5	< 1	< 10	8	4	< 1	< 10	5	40	20
19260	2	0.55	10	< 10	13	< 1	< 5	0.07	< 1	6	24	11	3.80	0.32	300	6	0.03	7	900	36	< 5	< 1	10	74	21	5	< 10	2	37	< 1
19261	< 1	1.31	75	< 10	20	< 1	< 5	0.19	5	4	13	67	3.56	0.83	770	6	0.02	< 1	790	522	5	< 1	< 10	25	5	19	< 10	4	408	19
19262	1	0.97	55	< 10	36	< 1	< 5	0.09	11	6	16	111	2.47	0.70	436	2	0.02	< 1	888	859	< 5	< 1	< 10	111	4	12	< 10	3	779	13
19263	< 1	0.21	40	< 10	26	< 1	< 5	0.07	9	4	10	67	2.00	0.17	49	2	0.02	2	294	621	< 5	< 1	< 10	52	7	2	< 10	1	568	10
19264	< 1	0.18	30	< 10	11	< 1	< 5	0.04	2	4	22	39	3.20	0.08	40	6	0.02	1	182	53	< 5	< 1	< 10	7	7	< 1	< 10	< 1	25	16
19265	< 1	0.19	30	< 10	11	< 1	< 5	0.19	1	5	22	13	3.30	0.03	18	6	0.02	< 1	906	30	< 5	< 1	< 10	6	5	< 1	< 10	3	11	19
19266	< 1	0.90	40	< 10	32	< 1	< 5	0.23	< 1	3	22	5	2.60	0.65	497	2	0.02	< 1	940	66	< 5	< 1	< 10	7	9	12	< 10	5	125	14
19267	< 1	0.12	25	< 10	5	< 1	< 5	0.02	3	5	68	< 1	5.32	0.04	19	14	0.02	16	110	37	< 5	< 1	< 10	10	5	< 1	< 10	1	16	25
19268	< 1	0.07	15	< 10	14	< 1	< 5	0.01	1	3	59	< 1	2.39	0.01	20	4	0.02	2	38	25	< 5	< 1	< 10	44	4	< 1	< 10	< 1	10	10
19269	< 1	0.12	55	< 10	9	< 1	< 5	0.04	3	5	41	< 1	3.48	0.01	12	8	0.02	2	112	45	< 5	< 1	< 10	13	2	< 1	< 10	< 1	14	18
19270	1	0.13	35	< 10	10	< 1	< 5	0.03	2	5	52	< 1	3.09	0.01	11	6	0.02	1	72	43	< 5	< 1	< 10	20	2	< 1	< 10	< 1	11	18
19271	< 1	0.13	25	< 10	11	< 1	< 5	0.03	2	5	39	1	2.84	< 0.01	9	6	0.02	1	54	43	< 5	< 1	< 10	13	2	< 1	< 10	< 1	9	17
19272	1	0.09	65	< 10	12	< 1	< 5	0.09	3	4	49	< 1	2.54	< 0.01	10	6	0.02	2	74	26	< 5	< 1	< 10	17	2	< 1	< 10	< 1	7	13
19273	1	0.11	30	< 10	9	< 1	< 5	0.03	2	6	42	< 1	3.51	< 0.01	17	6	0.02	3	72	32	< 5	< 1	< 10	13	2	< 1	< 10	< 1	10	18
19274	< 1	0.14	20	< 10	10	< 1	< 5	0.03	2	6	74	4	3.72	< 0.01	15	8	0.02	3	72	33	< 5	< 1	< 10	24	2	< 1	< 10	< 1	12	19
19275	< 1	0.09	25	< 10	7	< 1	< 5	0.02	3	8	38	< 1	4.56	< 0.01	12	8	0.02	2	64	33	< 5	< 1	< 10	8	2	< 1	< 10	< 1	16	22
19276	1	0.10	5	< 10	7	< 1	< 5	< 0.01	2	7	56	< 1	4.18	< 0.01	15	10	0.02	1	36	31	< 5	< 1	< 10	11	2	< 1	< 10	< 1	8	20
19277	< 1	0.02	10	< 10	408	< 1	< 5	< 0.01	< 1	1	79	< 1	0.44	< 0.01	10	< 2	0.02	2	156	18	< 5	< 1	< 10	74	2	< 1	< 10	< 1	3	2
19278	7	0.01	15	< 10	260	< 1	< 5	< 0.01	< 1	1	90	2	0.47	< 0.01	20	2	0.02	1	66	27	10	< 1	< 10	30	4	2	< 10	< 1	3	3
19279	8	0.05	35	< 10	14	< 1	< 5	< 0.01	3	9	58	18	4.20	< 0.01	39	8	0.02	3	34	47	10	< 1	< 10	5	3	< 1	< 10	< 1	14	18
19280	5	0.02	10	< 10	122	< 1	< 5	< 0.01	< 1	1	109	2	0.59	< 0.01	20	< 2	0.02	2	10	9	< 5	< 1	< 10	19	6	< 1	< 10	< 1	3	3
19281	10	< 0.01	5	< 10	29	< 1	< 5	< 0.01	3	2	84	5	1.46	< 0.01	19	< 2	0.02	4	12	15	5	< 1	< 10	145	3	< 1	< 10	< 1	26	5
19282	1	0.10	45	< 10	13	< 1	< 5	< 0.01	2	4	58	7	3.10	< 0.01	17	8	0.02	1	30	22	< 5	< 1	< 10	39	2	< 1	< 10	< 1	9	15

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED : Bernie Dunn

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] ›ra res L/ ›YE Lat ›to: s
780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

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REPORT No. : T19
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File No. : SE14MA
Date : SEP-23-1992

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
19283	14	1.00	75	< 10	120	< 1	< 5	0.06	3	3	29	23	4.41	0.53	261	20	0.02	10	442	72	10	5	< 10	10	1649	45	< 10	3	96	40

Sulf. ox. Iron

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED : Bernie Quinn

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780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
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REPORT No. : T19
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File No. : SE15MA
Date : SEP-22-1992

I.C.A.P. PLASMA SCAN

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SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
704	< 1	2.9	5	< 10	140	< 1	< 5	1.5	< 1	28	63	31	6.6	0.97	1300	< 2	0.03	26	1100	1	10	10	< 10	32	1700	180	< 10	21	130	21
705	< 1	2.4	< 5	< 10	60	< 1	< 5	2.0	< 1	30	26	32	6.5	0.67	1500	< 2	0.03	20	1100	2	< 5	6	< 10	36	730	140	< 10	22	120	12
706	< 1	0.45	10	< 10	71	< 1	< 5	3.6	< 1	17	14	44	5.3	0.73	1300	< 2	0.03	7	1000	14	< 5	12	< 10	120	64	40	< 10	15	99	12
707	< 1	0.62	65	< 10	61	< 1	< 5	0.17	< 1	3	10	40	3.5	0.23	280	< 2	0.04	2	1200	23	< 5	2	< 10	210	270	18	< 10	3	53	4
708	< 1	0.32	25	< 10	35	< 1	< 5	0.09	< 1	4	22	22	6.1	0.15	100	14	0.04	2	1400	14	< 5	< 1	< 10	37	260	22	< 10	2	48	4
709	1	0.40	330	< 10	48	< 1	< 5	0.05	6	3	11	22	4.8	0.25	150	< 2	0.04	1	1200	25	15	1	< 10	78	16	15	< 10	3	48	2
710	< 1	0.47	290	< 10	25	< 1	< 5	0.04	6	5	11	72	4.9	0.28	350	< 2	0.02	3	760	85	5	2	< 10	33	12	13	< 10	1	33	2
19034	< 1	1.6	25	< 10	29	< 1	< 5	2.3	< 1	7	11	38	4.5	0.57	370	6	0.02	20	410	7	< 5	4	< 10	49	49	19	< 10	8	170	3
19035	< 1	1.3	20	< 10	30	< 1	< 5	1.2	1	9	14	51	4.0	0.47	270	16	0.02	46	550	13	< 5	4	< 10	19	41	20	< 10	6	170	5
19036	< 1	0.26	60	< 10	29	< 1	< 5	2.2	1	7	29	11	2.7	0.12	520	2	0.02	5	350	27	< 5	1	< 10	170	5	< 1	< 10	4	17	1
19037	< 1	0.06	20	< 10	13	< 1	< 5	0.06	< 1	7	51	16	2.8	0.02	35	4	0.02	2	76	14	< 5	< 1	< 10	6	18	< 1	< 10	< 1	6	1
19038	2	0.04	45	< 10	12	< 1	< 5	0.03	< 1	8	65	32	2.1	0.01	20	< 2	0.02	3	14	18	< 5	< 1	< 10	5	11	< 1	< 10	< 1	6	< 1
19039	< 1	0.31	40	< 10	77	< 1	< 5	0.03	< 1	3	57	26	5.2	0.06	140	< 2	0.03	3	1000	8	< 5	< 1	< 10	37	31	16	< 10	4	92	< 1
19040	5	0.08	80	< 10	6	< 1	< 5	0.01	1	15	83	57	6.0	< 0.01	19	4	0.02	5	32	25	5	< 1	30	3	9	< 1	< 10	< 1	12	3
19041	< 1	0.05	15	< 10	25	< 1	< 5	< 0.01	< 1	5	78	11	1.6	< 0.01	17	< 2	0.02	4	26	8	< 5	< 1	< 10	3	6	< 1	< 10	< 1	11	< 1
19042	< 1	0.70	25	< 10	95	< 1	< 5	0.15	< 1	6	32	11	3.1	0.30	490	< 2	0.04	2	770	9	< 5	1	< 10	27	930	12	< 10	4	58	4
19043	< 1	0.19	35	< 10	44	< 1	< 5	0.04	< 1	3	13	24	4.6	0.02	38	6	0.01	< 1	660	22	< 5	< 1	< 10	3	800	< 1	< 10	2	14	3
19044	2	0.10	50	< 10	44	< 1	10	0.02	3	< 1	52	3	1.1	< 0.01	18	< 2	0.07	2	68	45	15	< 1	< 10	8	28	< 1	< 10	< 1	11	2
19045	< 1	0.84	15	< 10	25	< 1	< 5	1.9	< 1	4	41	18	2.7	0.40	660	< 2	0.04	7	530	14	< 5	4	< 10	91	24	48	< 10	8	70	3
19046	2	0.09	15	< 10	38	< 1	15	11	1	6	19	5	5.8	1.1	1500	2	0.02	13	690	2	10	8	< 10	1000	2	43	< 10	16	72	8
19047	1	0.32	< 5	< 10	75	< 1	15	13	< 1	5	14	7	6.7	1.1	3800	< 2	0.02	31	160	1	< 5	3	< 10	430	< 1	< 1	< 10	43	29	6
19048	1	0.12	25	< 10	69	< 1	< 5	6.7	< 1	4	33	69	3.8	0.69	780	< 2	0.02	28	140	92	55	3	< 10	360	2	8	< 10	8	64	3
19049	< 1	0.54	75	< 10	68	< 1	< 5	0.24	< 1	< 1	11	11	6.0	0.19	61	4	0.03	1	560	15	< 5	2	< 10	10	7	8	< 10	5	38	3
19050	< 1	0.76	55	< 10	33	< 1	< 5	0.22	< 1	2	29	9	4.0	0.32	120	6	0.03	5	1100	13	< 5	3	< 10	11	10	9	< 10	13	53	3
19051	< 1	1.2	10	< 10	170	< 1	< 5	0.21	< 1	7	80	7	2.3	0.67	1100	< 2	0.02	13	390	4	5	4	< 10	70	590	38	< 10	1	61	2
19301	1	0.52	85	< 10	59	< 1	< 5	0.07	< 1	1	28	12	4.5	0.18	120	4	0.03	4	710	11	< 5	3	< 10	8	10	7	< 10	5	34	3
19302	< 1	0.60	60	< 10	110	< 1	< 5	0.06	< 1	< 1	26	10	5.2	0.18	60	4	0.03	3	670	11	< 5	3	< 10	9	9	7	< 10	5	33	2
19303	< 1	0.18	25	< 10	62	< 1	< 5	0.04	< 1	2	19	8	4.2	0.02	27	4	0.05	2	320	10	< 5	2	< 10	15	11	7	< 10	4	37	2
19304	< 1	0.13	30	< 10	38	< 1	< 5	0.04	< 1	2	32	17	3.1	0.02	32	4	0.05	3	230	8	< 5	3	< 10	8	14	5	< 10	3	76	2
19305	< 1	0.18	25	< 10	98	< 1	< 5	0.06	< 1	1	38	9	2.6	0.02	38	28	0.05	5	360	8	< 5	3	< 10	12	10	11	< 10	4	47	2
19306	< 1	0.17	35	< 10	90	< 1	< 5	0.06	< 1	2	32	10	6.1	0.02	54	6	0.04	5	840	8	< 5	5	< 10	14	10	19	< 10	7	81	4
19307	< 1	0.11	15	< 10	38	< 1	< 5	0.06	< 1	1	39	6	2.9	0.02	47	2	0.05	3	380	7	< 5	2	< 10	7	13	6	< 10	4	39	< 1
19308	< 1	0.09	30	< 10	38	< 1	< 5	0.05	< 1	1	36	5	2.3	0.01	66	4	0.04	3	210	5	< 5	2	< 10	6	12	6	< 10	2	21	1

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED :

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I ora res L/ AYE Lab tor s
780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
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I.C.A.P. PLASMA SCAN

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SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
725	2	2.0	85	< 10	61	< 1	< 5	0.26	< 1	8	18	75	4.9	0.84	1600	< 2	0.02	3	1500	110	15	3	< 10	50	9	49	< 10	5	210	3
726	2	1.4	80	< 10	81	< 1	< 5	0.98	2	5	17	47	3.3	0.66	1600	< 2	0.02	3	1300	110	10	3	< 10	55	28	37	< 10	5	140	2
727	< 1	1.7	75	< 10	62	< 1	< 5	1.2	< 1	8	23	77	4.1	0.72	1400	< 2	0.02	2	1100	42	5	3	< 10	59	28	42	< 10	9	130	2
728	< 1	1.7	65	< 10	55	< 1	< 5	1.0	1	11	11	100	4.9	0.70	1400	< 2	0.02	3	1400	26	< 5	3	< 10	36	20	42	< 10	11	190	4
729	< 1	2.0	20	< 10	91	< 1	< 5	2.0	< 1	8	11	43	4.5	0.76	1900	< 2	0.02	3	1200	8	< 5	3	< 10	40	11	27	< 10	10	110	4
730	1	1.4	30	< 10	76	< 1	< 5	3.0	< 1	9	11	45	4.1	0.58	1900	< 2	0.02	2	1100	13	< 5	3	< 10	53	9	19	< 10	12	83	4
731	< 1	1.3	40	< 10	86	< 1	< 5	1.2	< 1	11	15	34	4.2	0.60	1300	< 2	0.02	1	1000	12	< 5	2	< 10	33	14	23	< 10	6	79	3
732	< 1	1.0	80	< 10	38	< 1	< 5	1.6	1	6	12	32	5.0	0.48	1000	< 2	0.02	2	1700	18	< 5	2	< 10	34	7	22	< 10	6	64	4
733	1	1.6	55	< 10	62	< 1	< 5	1.4	< 1	8	10	59	5.3	0.64	1300	< 2	0.02	2	1300	11	< 5	3	< 10	40	8	27	< 10	8	100	3
734	< 1	2.1	65	< 10	150	< 1	< 5	0.24	< 1	7	11	61	4.9	0.84	1300	< 2	0.02	1	1100	7	5	3	< 10	18	9	29	< 10	9	180	4
19053	2	1.7	380	< 10	24	< 1	< 5	0.32	9	7	16	100	4.1	0.78	940	< 2	0.02	3	960	17	40	2	20	39	11	32	< 10	4	99	1
19054	2	1.2	350	< 10	25	< 1	< 5	0.20	9	6	14	76	3.6	0.58	560	< 2	0.02	1	760	41	5	2	10	80	9	25	< 10	4	70	1
19055	3	1.2	220	< 10	19	< 1	< 5	0.12	6	5	39	96	4.7	0.54	480	< 2	0.02	11	1100	230	25	2	10	160	6	40	< 10	3	170	1
19056	2	3.2	170	< 10	42	< 1	< 5	0.52	4	19	61	120	5.4	0.96	1300	< 2	0.02	42	2300	130	15	5	< 10	190	12	88	30	9	430	4
19057	1	4.2	100	< 10	98	< 1	5	0.52	2	19	120	110	5.8	1.2	2100	< 2	0.02	79	2300	210	20	7	< 10	97	190	120	20	8	540	7
19058	2	1.2	320	< 10	24	< 1	< 5	0.28	9	8	19	98	4.4	0.54	640	< 2	0.02	4	1200	100	15	2	10	120	8	22	< 10	4	100	2
19172	< 1	0.48	30	< 10	39	< 1	< 5	0.72	< 1	6	15	13	2.7	0.08	310	2	0.02	1	1100	10	< 5	1	< 10	20	5	9	< 10	12	170	2
19173	< 1	0.44	30	< 10	28	< 1	< 5	0.20	< 1	6	14	12	3.0	0.06	84	< 2	0.02	1	1000	14	< 5	1	< 10	10	5	8	< 10	7	68	3
19174	< 1	0.40	30	< 10	16	< 1	< 5	0.12	< 1	7	14	16	3.3	0.04	53	2	0.02	1	810	29	< 5	1	< 10	8	4	8	< 10	4	59	4
19175	< 1	0.42	25	< 10	22	< 1	< 5	0.20	< 1	7	13	15	3.1	0.04	56	4	0.02	< 1	1100	22	< 5	1	10	8	4	8	< 10	5	130	5
19176	1	0.48	30	< 10	18	< 1	< 5	0.24	< 1	8	20	21	3.7	0.10	97	< 2	0.02	4	890	28	< 5	2	10	12	48	16	< 10	6	140	4
19177	1	0.46	30	< 10	21	< 1	< 5	0.18	< 1	6	20	11	3.3	0.06	47	2	0.02	1	990	15	< 5	1	< 10	11	17	10	< 10	4	60	4
19178	1	0.42	20	< 10	18	< 1	< 5	0.18	< 1	7	15	12	3.3	0.04	34	2	0.02	1	1100	12	< 5	1	< 10	8	14	9	< 10	5	30	5
19179	1	0.48	20	< 10	22	< 1	< 5	0.14	< 1	6	15	11	3.1	0.10	83	2	0.02	< 1	790	12	< 5	1	< 10	10	11	9	< 10	5	59	4
19180	< 1	0.46	30	< 10	25	< 1	< 5	0.08	< 1	7	11	17	3.5	0.08	83	< 2	0.02	2	670	14	< 5	2	< 10	5	10	11	< 10	4	69	5
19181	< 1	0.36	35	< 10	15	< 1	< 5	0.18	< 1	8	11	18	4.2	0.04	39	< 2	0.02	< 1	460	13	< 5	1	10	5	7	8	< 10	5	81	6
19182	< 1	0.44	25	< 10	21	< 1	< 5	0.32	< 1	8	13	17	4.1	0.08	69	< 2	0.02	< 1	720	11	< 5	2	20	6	7	9	< 10	6	55	7
19183	< 1	0.50	25	< 10	23	< 1	< 5	0.16	< 1	7	19	14	2.9	0.10	61	2	0.02	1	720	8	< 5	2	10	7	6	8	< 10	6	50	4
19184	< 1	0.44	15	< 10	40	< 1	< 5	0.18	< 1	7	19	12	2.6	0.08	74	2	0.02	1	550	8	< 5	2	< 10	7	7	9	< 10	6	50	4
19185	< 1	0.40	15	< 10	12	< 1	< 5	0.76	< 1	7	19	14	3.0	0.10	160	< 2	0.02	1	470	7	< 5	2	10	27	6	8	< 10	6	67	5
19186	< 1	0.78	10	< 10	49	< 1	< 5	0.32	< 1	7	31	13	2.8	0.34	150	< 2	0.04	6	800	7	< 5	3	< 10	13	26	22	< 10	8	42	4
19187	< 1	0.54	10	< 10	84	< 1	< 5	0.30	< 1	4	18	8	2.0	0.16	130	2	0.04	2	600	6	< 5	1	< 10	10	7	12	< 10	5	40	2
19188	< 1	0.80	15	< 10	40	< 1	< 5	0.68	< 1	8	15	14	3.0	0.30	330	< 2	0.02	< 1	690	6	< 5	2	< 10	14	7	15	< 10	9	110	4
19189	< 1	0.44	15	< 10	29	< 1	< 5	0.20	< 1	8	14	13	3.1	0.08	77	2	0.02	1	530	11	< 5	1	< 10	6	5	7	< 10	6	38	6
19190	< 1	0.34	15	< 10	25	< 1	< 5	0.06	< 1	3	16	6	2.5	0.02	15	4	0.02	< 1	300	9	< 5	< 1	< 10	6	4	5	< 10	2	10	4

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED :

TSL/92

Laboratoires TSL/ASSAYERS Laboratories
780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

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REPORT No. : T196
Page No. : 2 of 2
File No. : SE15MB
Date : SEP-22-1992

I.C.A.P. PLASMA SCAN

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SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
19191	1	0.32	15	< 10	45	< 1	< 5	0.02	< 1	4	19	6	1.8	0.02	11	4	0.02	< 1	34	5	< 5	< 1	< 10	3	4	5	< 10	1	7	3
19192	< 1	0.38	20	< 10	30	< 1	< 5	0.08	< 1	6	18	13	2.5	0.04	31	2	0.02	< 1	340	8	< 5	1	< 10	5	5	10	< 10	3	36	4
19193	< 1	0.60	20	< 10	23	< 1	< 5	0.14	< 1	10	14	22	3.8	0.18	140	< 2	0.02	2	440	11	< 5	2	10	4	5	12	< 10	7	60	8
19194	< 1	0.44	20	< 10	20	< 1	< 5	0.26	< 1	10	12	22	4.4	0.14	150	< 2	0.02	1	660	11	< 5	2	10	6	6	11	< 10	8	82	8
19195	< 1	0.44	15	< 10	23	< 1	< 5	0.40	< 1	7	11	16	3.4	0.16	210	< 2	0.04	< 1	730	9	< 5	2	< 10	19	7	13	< 10	8	41	6
19196	< 1	0.30	15	< 10	49	< 1	< 5	2.8	< 1	5	30	10	2.4	0.16	630	2	0.02	1	160	5	< 5	< 1	< 10	67	42	6	< 10	7	26	3
19197	1	1.0	10	< 10	69	< 1	< 5	0.44	< 1	7	9	17	3.4	0.46	800	< 2	0.02	1	910	5	< 5	2	< 10	11	13	27	< 10	10	110	3
19198	< 1	1.3	20	< 10	61	< 1	< 5	0.78	< 1	9	9	19	4.1	0.58	990	< 2	0.02	< 1	1100	6	< 5	2	< 10	16	12	41	< 10	11	120	3
19199	< 1	0.64	20	< 10	18	< 1	< 5	0.32	< 1	10	9	19	3.9	0.26	360	4	0.02	1	860	10	< 5	2	10	7	10	16	< 10	12	66	5
19200	< 1	0.62	45	< 10	19	< 1	< 5	0.50	< 1	12	10	22	4.8	0.22	400	< 2	0.02	< 1	1200	15	< 5	2	20	9	10	17	< 10	14	55	3
19284	16	0.78	80	< 10	74	< 1	< 5	0.04	< 1	1	20	27	5.1	0.32	120	18	0.02	8	740	63	10	4	< 10	9	2000	51	< 10	5	120	25
19285	< 1	2.6	15	< 10	110	< 1	< 5	0.62	< 1	11	19	16	4.6	0.98	680	< 2	0.02	11	1600	7	10	5	< 10	16	1300	68	< 10	13	100	8
19286	< 1	1.2	40	< 10	68	1	< 5	0.36	< 1	2	17	31	2.7	0.44	150	22	0.02	11	440	13	20	8	< 10	12	1700	43	< 10	7	100	11
19287	< 1	1.0	40	< 10	86	< 1	< 5	0.36	< 1	1	14	16	1.8	0.40	120	14	0.02	8	500	13	15	7	< 10	6	730	39	< 10	6	68	10
19288	< 1	1.8	20	< 10	91	< 1	< 5	0.46	< 1	4	13	8	5.1	0.82	580	6	0.04	2	1400	12	5	5	< 10	13	1500	100	< 10	12	58	10
19289	< 1	0.58	50	< 10	90	< 1	< 5	0.04	1	< 1	38	3	1.8	0.32	120	4	0.06	3	190	29	10	< 1	< 10	5	51	12	< 10	2	96	3
19290	< 1	0.98	10	< 10	38	< 1	< 5	2.4	< 1	4	17	6	3.4	0.60	900	2	0.04	2	1300	10	5	4	10	21	1600	72	< 10	14	65	5
19309	< 1	0.20	40	< 10	270	< 1	< 5	0.08	< 1	< 1	62	34	1.6	0.02	34	< 2	0.04	2	160	5	< 5	< 1	< 10	46	32	4	< 10	< 1	2	3
19310	< 1	0.14	15	< 10	210	< 1	< 5	0.02	< 1	< 1	42	18	2.6	0.02	11	2	0.04	1	320	12	< 5	< 1	< 10	54	25	8	< 10	< 1	2	< 1
19311	3	0.24	20	< 10	17	< 1	< 5	0.02	< 1	3	16	17	4.3	0.02	16	< 2	0.04	1	160	29	< 5	< 1	< 10	8	70	9	< 10	< 1	7	2
19312	2	0.12	60	< 10	10	< 1	< 5	0.02	2	4	31	29	6.8	<0.01	5	< 2	0.02	< 1	160	16	< 5	< 1	30	84	14	3	< 10	1	2	3
19313	27	0.44	6100	< 10	290	< 1	30	0.12	180	< 1	23	54	9.4	0.02	150	4	0.02	< 1	>9999	2200	830	55	< 10	910	290	22	< 10	8	63	43

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED :

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Laboratoires TSL/ASSAYERS Laboratories
780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
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REPORT No. : T1965
Page No. : 1 of 2
File No. : SE15MA
Date : SEP-22-1992

I.C.A.P. PLASMA SCAN

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SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
735	< 1	0.20	95	< 10	54	< 1	< 5	0.22	2	5	19	5	2.8	0.06	100	4	0.02	3	850	9	< 5	3	< 10	7	6	< 1	< 10	13	80	3
736	< 1	0.17	130	< 10	42	< 1	< 5	0.09	3	1	12	5	4.4	0.02	57	10	0.02	1	1300	11	< 5	4	< 10	6	9	< 1	< 10	8	52	3
737	< 1	0.14	85	< 10	41	< 1	< 5	0.15	1	< 1	22	4	3.7	0.01	50	4	0.04	2	1000	10	< 5	3	< 10	7	8	< 1	< 10	6	48	3
738	< 1	0.14	110	< 10	40	< 1	< 5	0.17	2	< 1	19	4	2.7	0.01	42	4	0.03	1	660	12	< 5	2	< 10	8	7	< 1	< 10	6	37	2
739	< 1	0.15	85	< 10	16	< 1	5	3.1	2	2	15	5	4.4	0.08	240	4	0.02	2	970	9	< 5	5	20	80	6	< 1	< 10	19	110	5
740	< 1	0.19	45	< 10	28	< 1	< 5	4.7	2	3	15	6	2.9	0.20	410	2	0.02	6	1100	8	< 5	6	< 10	94	6	< 1	< 10	26	260	3
741	< 1	0.20	85	< 10	31	< 1	< 5	3.7	2	8	16	6	2.7	0.32	240	2	0.02	5	1200	9	< 5	7	< 10	92	4	< 1	< 10	24	130	6
742	< 1	0.19	160	< 10	30	< 1	< 5	0.84	4	3	27	9	2.4	0.04	110	2	0.01	4	1900	9	< 5	5	< 10	22	6	3	< 10	20	58	4
743	2	0.23	270	< 10	49	< 1	< 5	2.6	7	5	17	29	3.2	0.05	330	6	0.01	19	1200	11	< 5	10	< 10	50	4	36	< 10	14	180	6
744	< 1	1.3	40	< 10	110	< 1	< 5	0.12	< 1	2	11	16	4.9	0.48	140	2	0.02	3	600	13	10	5	< 10	10	9	13	< 10	6	63	4
745	< 1	0.80	30	< 10	70	< 1	< 5	0.06	< 1	< 1	7	9	5.0	0.29	96	2	0.03	2	810	16	< 5	4	< 10	15	9	8	< 10	4	38	3
746	< 1	0.51	40	< 10	68	< 1	< 5	0.15	< 1	1	10	9	4.2	0.19	63	< 2	0.04	< 1	1100	18	10	3	< 10	13	9	9	< 10	6	35	3
747	1	0.30	35	< 10	44	< 1	< 5	1.2	< 1	1	8	12	4.7	0.11	150	< 2	0.03	2	1700	13	< 5	3	< 10	23	10	1	< 10	6	54	2
748	< 1	0.40	40	< 10	56	< 1	< 5	2.6	< 1	1	11	12	3.4	0.17	110	2	0.03	3	1500	13	< 5	3	< 10	37	7	7	< 10	7	49	2
19220	< 1	0.16	35	< 10	79	< 1	< 5	0.08	< 1	< 1	27	4	1.7	0.01	28	< 2	0.03	2	86	17	< 5	< 1	< 10	6	3	< 1	< 10	2	49	< 1
19221	1	0.17	45	< 10	62	< 1	< 5	0.04	1	< 1	28	4	1.8	<0.01	46	4	0.03	3	78	21	< 5	< 1	< 10	5	3	< 1	< 10	3	73	1
19222	< 1	0.18	40	< 10	71	< 1	< 5	0.07	2	1	31	4	1.6	<0.01	140	2	0.03	4	66	18	< 5	< 1	< 10	6	3	< 1	< 10	5	110	< 1
19223	< 1	0.17	45	< 10	89	< 1	< 5	0.05	1	< 1	24	4	1.7	<0.01	56	4	0.03	3	36	21	< 5	< 1	< 10	6	3	< 1	< 10	3	83	1
19224	< 1	0.20	120	< 10	140	< 1	< 5	0.04	4	1	36	4	1.7	<0.01	230	4	0.03	4	26	28	< 5	< 1	< 10	6	3	< 1	< 10	4	130	< 1
19225	< 1	0.15	40	< 10	110	< 1	< 5	0.02	< 1	< 1	26	3	1.3	<0.01	35	< 2	0.02	1	30	15	< 5	< 1	< 10	4	4	< 1	< 10	2	49	< 1
19226	< 1	0.17	40	< 10	150	< 1	< 5	0.03	< 1	< 1	36	4	1.4	0.02	26	< 2	0.03	2	50	15	< 5	< 1	< 10	6	10	< 1	< 10	2	41	< 1
19227	< 1	0.20	55	< 10	150	< 1	< 5	0.03	1	< 1	36	4	1.5	<0.01	37	< 2	0.03	3	66	14	< 5	< 1	< 10	7	4	< 1	< 10	3	66	< 1
19228	< 1	0.15	40	< 10	79	< 1	< 5	0.02	< 1	< 1	25	3	1.6	<0.01	46	< 2	0.03	2	82	17	< 5	< 1	< 10	5	3	< 1	< 10	3	64	< 1
19229	< 1	0.21	45	< 10	88	< 1	< 5	0.02	< 1	< 1	24	4	2.0	<0.01	24	4	0.03	2	56	20	< 5	< 1	< 10	4	3	< 1	< 10	2	38	< 1
19230	< 1	0.16	40	< 10	83	< 1	< 5	0.02	< 1	< 1	34	3	1.7	<0.01	42	< 2	0.04	2	86	14	< 5	< 1	< 10	5	4	< 1	< 10	3	35	< 1
19231	< 1	0.19	130	< 10	160	< 1	< 5	0.03	3	< 1	39	3	1.9	<0.01	34	4	0.03	3	44	15	< 5	< 1	< 10	7	3	< 1	< 10	3	58	1
19232	< 1	0.12	55	< 10	120	< 1	< 5	0.01	< 1	< 1	20	2	1.4	<0.01	18	< 2	0.03	2	62	15	< 5	< 1	< 10	4	3	< 1	< 10	2	25	< 1
19233	< 1	0.10	60	< 10	130	< 1	5	0.01	1	< 1	24	2	1.5	<0.01	23	< 2	0.03	1	100	16	< 5	< 1	< 10	5	4	< 1	< 10	2	19	< 1
19234	< 1	0.13	210	< 10	100	< 1	< 5	0.02	5	< 1	32	2	2.0	<0.01	22	< 2	0.04	3	170	14	< 5	< 1	< 10	4	4	< 1	< 10	2	26	1
19291	1	0.04	40	< 10	20	< 1	< 5	0.01	1	1	54	10	2.0	<0.01	25	4	0.01	3	16	16	10	< 1	< 10	9	5	< 1	< 10	< 1	9	< 1
19292	< 1	0.05	85	< 10	83	< 1	< 5	0.35	2	1	62	2	0.37	<0.01	550	< 2	0.02	7	42	4	< 5	< 1	< 10	11	10	< 1	< 10	6	67	1
19293	< 1	0.12	30	< 10	55	< 1	5	0.04	< 1	< 1	69	4	1.2	<0.01	51	< 2	0.03	3	30	16	< 5	< 1	< 10	5	5	< 1	< 10	3	81	< 1
19294	< 1	0.12	25	< 10	84	< 1	< 5	0.01	< 1	< 1	58	3	1.0	<0.01	30	< 2	0.03	2	36	18	< 5	< 1	< 10	5	5	< 1	< 10	2	34	< 1
19295	< 1	0.12	35	< 10	77	< 1	< 5	0.03	< 1	< 1	38	3	2.0	<0.01	28	6	0.03	4	76	12	< 5	< 1	< 10	5	6	< 1	< 10	3	35	2
19296	< 1	0.09	25	< 10	77	< 1	< 5	<0.01	< 1	< 1	27	2	2.0	<0.01	30	8	0.03	2	92	12	< 5	< 1	< 10	5	51	< 1	< 10	2	27	2

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED :

TSL/92

I ora res L/ AYE Lab to s
780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

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REPORT No. : T19(
Page No. : 2 of 2
File No. : SE15MA
Date : SEP-22-1992

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SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
19297	< 1	0.11	35	< 10	87	< 1	< 5	0.01	< 1	< 1	22	3	2.7	<0.01	22	6	0.04	< 1	290	15	< 5	< 1	< 10	9	94	< 1	< 10	2	24	2
19298	< 1	0.14	25	< 10	83	< 1	< 5	0.10	< 1	1	28	4	3.3	<0.01	70	2	0.04	1	910	12	< 5	2	< 10	8	48	< 1	< 10	7	40	2
19299	< 1	0.11	20	< 10	100	< 1	< 5	0.02	< 1	< 1	29	3	2.4	<0.01	40	4	0.04	< 1	300	13	< 5	< 1	< 10	11	95	< 1	< 10	2	26	1
19300 Chp Low	< 1	0.09	25	< 10	75	< 1	< 5	0.24	< 1	< 1	22	3	2.5	<0.01	40	2	0.05	< 1	690	11	< 5	2	< 10	14	120	< 1	< 10	6	30	1
19401 TR # 4	< 1	0.11	30	< 10	59	< 1	< 5	0.08	< 1	1	16	3	3.4	<0.01	56	2	0.05	1	860	13	< 5	2	< 10	13	380	< 1	< 10	7	36	3
19402	< 1	0.98	20	< 10	15	< 1	< 5	0.40	< 1	8	16	24	5.1	0.43	190	< 2	0.04	11	1400	17	< 5	6	10	12	21	23	< 10	13	91	5
19403	1	0.87	15	< 10	150	< 1	< 5	1.7	< 1	1	11	8	4.3	0.12	62	4	0.04	2	8300	18	< 5	5	< 10	45	18	11	< 10	26	35	6
19404	< 1	0.69	20	< 10	100	< 1	< 5	0.05	< 1	1	19	29	2.9	0.18	59	< 2	0.02	8	350	11	< 5	4	< 10	4	8	18	< 10	2	44	2

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED : Denis Pilgrim

TSL/92

I__bra__res __L/L__AYE__ Lab__ltoi__s
780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

PRIME EXPL__RATIONS LTD
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File No. : SE15MA
Date : SEP-22-1992

I.C.A.P. PLASMA SCAN

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TG
CL # 8

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
19473	1	1.2	15	< 10	18	< 1	< 5	0.60	< 1	11	43	37	4.8	0.71	400	< 2	0.02	31	2100	20	5	4	10	16	720	25	< 10	6	30	4
19474	1	0.67	10	< 10	22	< 1	< 5	0.38	< 1	9	31	54	4.7	0.35	150	2	0.02	20	2100	15	< 5	4	10	12	620	11	< 10	5	14	4
19475	2	1.2	10	< 10	29	< 1	< 5	0.67	< 1	14	46	53	4.8	0.72	480	< 2	0.02	35	1700	28	< 5	5	< 10	14	270	38	< 10	6	37	4
19476	2	1.6	15	< 10	28	< 1	< 5	0.62	< 1	13	44	32	4.7	0.90	630	4	0.02	30	1600	12	< 5	6	< 10	13	34	54	< 10	7	47	4
19477	1	2.4	20	< 10	36	< 1	< 5	0.81	1	18	56	59	4.7	1.1	910	< 2	0.02	48	1700	31	15	9	< 10	13	26	110	< 10	9	94	5
19478	1	0.64	45	< 10	16	< 1	< 5	0.85	< 1	14	35	26	4.1	0.47	270	2	0.03	22	1400	24	< 5	2	10	14	16	12	< 10	7	29	1
19479	3	1.5	110	< 10	24	< 1	< 5	0.50	3	15	52	35	4.5	0.87	500	4	0.02	35	1400	31	5	4	< 10	10	41	64	< 10	8	45	3
19480	7	1.9	95	< 10	23	< 1	< 5	0.80	4	25	85	140	5.0	0.95	570	2	0.02	68	1600	80	10	6	< 10	13	71	81	< 10	9	260	5

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED :

TSL/92

Laboratoires CL/Lakefield Laboratories
780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

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REPORT No. : T196.
Page No. : 1 of 2
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Date : SEP-22-1992

I.C.A.P. PLASMA SCAN

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SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
04501 TG CL#7	< 1	2.9	15	< 10	65	< 1	< 5	0.72	< 1	21	81	74	4.5	1.1	1200	< 2	0.02	55	1700	2	5	8	< 10	14	550	79	< 10	13	120	5
04502	1	2.4	20	< 10	120	1	< 5	0.45	1	22	84	61	4.8	0.97	880	< 2	0.02	71	1700	7	10	7	< 10	13	770	62	< 10	16	130	5
04503	1	3.0	45	< 10	160	1	< 5	0.65	< 1	22	74	60	4.9	1.0	940	< 2	0.03	70	1700	8	10	10	< 10	34	1000	87	< 10	19	160	8
04504	< 1	3.0	25	< 10	130	< 1	< 5	0.58	< 1	29	72	55	4.9	1.1	1300	< 2	0.02	73	1300	3	10	11	< 10	22	830	94	< 10	15	130	8
04505	< 1	0.43	10	< 10	360	< 1	< 5	0.05	< 1	2	45	12	1.9	0.15	51	6	0.02	6	200	13	< 5	1	< 10	10	280	4	< 10	2	8	2
04506	< 1	1.1	15	< 10	70	< 1	< 5	0.32	< 1	7	42	20	3.1	0.65	270	4	0.02	20	1000	19	< 5	5	< 10	11	1300	30	< 10	6	33	7
04507	< 1	0.42	10	< 10	190	< 1	< 5	0.08	< 1	2	41	10	1.6	0.15	60	4	0.02	6	370	16	< 5	1	< 10	8	220	4	< 10	3	10	3
04508	< 1	1.8	15	< 10	310	1	< 5	0.37	< 1	11	48	23	3.0	0.88	510	< 2	0.02	25	920	8	5	5	< 10	12	920	38	< 10	7	62	8
04509	2	2.5	25	< 10	75	1	< 5	0.24	< 1	14	45	34	4.1	1.0	640	< 2	0.02	37	960	16	10	6	< 10	6	190	65	< 10	8	150	5
04510	3	0.81	55	< 10	160	< 1	< 5	0.07	< 1	3	33	19	2.6	0.42	150	2	0.02	12	450	18	< 5	2	< 10	6	40	16	< 10	4	68	4
04511	2	0.36	15	< 10	430	< 1	< 5	0.02	< 1	1	40	6	1.2	0.07	29	2	0.02	4	170	13	< 5	< 1	< 10	7	13	1	< 10	2	24	3
04512	< 1	0.34	15	< 10	230	< 1	< 5	0.02	< 1	1	35	6	1.1	0.05	36	2	0.02	5	190	14	< 5	< 1	< 10	8	14	< 1	< 10	2	15	1
04513	< 1	0.43	10	< 10	220	< 1	< 5	0.04	< 1	2	46	7	1.1	0.12	61	< 2	0.02	5	190	11	< 5	< 1	< 10	6	21	1	< 10	2	27	2
04514 TG	1	0.36	15	< 10	130	< 1	< 5	0.02	< 1	2	34	6	0.84	0.08	120	4	0.03	4	150	10	< 5	< 1	< 10	5	17	2	< 10	2	16	2
04515	2	0.37	15	< 10	290	< 1	< 5	0.02	< 1	1	31	7	0.98	0.08	43	8	0.02	4	180	13	< 5	< 1	< 10	6	16	< 1	< 10	2	15	2
04516 CL# 6	< 1	0.44	20	< 10	180	< 1	< 5	0.02	< 1	1	29	6	1.5	0.10	40	4	0.02	3	200	17	< 5	< 1	< 10	6	26	< 1	< 10	2	16	2
04517	1	0.59	15	< 10	270	< 1	< 5	0.05	< 1	2	39	6	1.4	0.30	130	4	0.02	4	170	16	5	< 1	< 10	7	360	1	< 10	2	32	6
04518	1	0.34	30	< 10	170	< 1	< 5	0.04	< 1	2	27	5	1.2	0.10	43	6	0.02	4	150	20	< 5	< 1	< 10	5	840	2	< 10	2	18	9
04519	2	0.43	75	< 10	100	< 1	< 5	0.07	2	2	52	6	1.6	0.14	65	6	0.02	5	190	29	10	< 1	< 10	10	770	1	< 10	2	18	8
04520	1	0.44	40	< 10	150	< 1	< 5	0.04	< 1	2	32	6	1.2	0.21	93	6	0.02	3	180	22	< 5	< 1	< 10	5	590	< 1	< 10	2	24	6
04521	2	0.40	25	< 10	220	< 1	< 5	0.09	< 1	2	60	7	1.3	0.24	120	4	0.02	4	180	18	< 5	< 1	< 10	6	440	1	< 10	2	28	4
19 47	< 1	1.8	65	< 10	39	< 1	< 5	0.15	2	4	16	20	4.0	0.72	210	4	0.02	15	360	8	20	5	< 10	19	15	12	< 10	8	92	4
19 48	< 1	0.09	10	< 10	25	< 1	< 5	0.01	< 1	2	21	4	1.3	0.04	9	< 2	0.02	3	34	7	< 5	< 1	< 10	3	14	< 1	< 10	< 1	6	< 1
19 49	1	0.05	10	< 10	14	< 1	< 5	0.01	< 1	3	9	6	1.8	0.02	8	< 2	0.01	2	120	5	< 5	< 1	< 10	4	13	< 1	< 10	< 1	4	< 1
19 50	1	0.05	5	< 10	16	< 1	< 5	<0.01	< 1	3	19	6	2.1	0.01	8	< 2	0.01	3	30	6	< 5	< 1	< 10	9	11	< 1	< 10	< 1	3	< 1
19055 TG	1	0.04	5	< 10	11	< 1	< 5	<0.01	< 1	5	7	6	2.7	0.01	12	2	0.01	1	10	6	< 5	< 1	10	6	16	< 1	< 10	< 1	5	< 1
19056	1	0.03	15	< 10	8	< 1	< 5	0.01	< 1	6	14	9	3.3	<0.01	7	2	0.01	3	14	4	< 5	< 1	10	4	8	< 1	< 10	< 1	4	< 1
19057	< 1	0.04	15	< 10	8	< 1	< 5	<0.01	< 1	6	9	8	3.5	0.01	12	2	0.01	2	18	6	< 5	< 1	20	6	14	< 1	< 10	< 1	9	< 1
19058	1	0.03	15	< 10	10	< 1	< 5	<0.01	< 1	5	30	9	2.6	<0.01	9	2	0.01	8	8	8	< 5	< 1	< 10	5	10	< 1	< 10	< 1	6	< 1
19059	< 1	0.04	10	< 10	120	< 1	< 5	<0.01	< 1	< 1	15	2	0.37	<0.01	6	< 2	0.01	2	12	7	10	< 1	< 10	14	9	< 1	< 10	< 1	3	< 1
19088	< 1	0.05	10	< 10	130	< 1	< 5	<0.01	< 1	< 1	46	2	0.36	<0.01	6	< 2	0.01	2	26	8	< 5	< 1	< 10	24	6	< 1	< 10	< 1	2	< 1
19089	< 1	0.09	10	< 10	120	< 1	< 5	<0.01	< 1	< 1	19	3	0.34	<0.01	4	< 2	0.02	2	20	15	< 5	< 1	< 10	47	5	< 1	< 10	< 1	2	< 1
19090	< 1	0.04	15	< 10	47	< 1	< 5	<0.01	< 1	2	18	4	0.82	<0.01	4	< 2	0.01	< 1	12	12	< 5	< 1	< 10	16	4	< 1	< 10	< 1	2	< 1
19091	2	0.04	15	< 10	26	< 1	< 5	<0.01	< 1	2	14	7	1.3	<0.01	3	< 2	0.01	1	18	12	< 5	< 1	< 10	9	5	< 1	< 10	< 1	7	< 1
19092	1	0.06	15	< 10	12	< 1	< 5	<0.01	< 1	4	11	13	2.9	<0.01	4	2	0.01	< 1	10	11	< 5	< 1	< 10	9	4	< 1	< 10	< 1	11	< 1

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

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Laboratoires TSL/ASSAYERS Laboratories
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REPORT No. : T19(
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SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
19093	< 1	0.05	20	< 10	16	< 1	< 5	<0.01	< 1	3	12	4	2.0	<0.01	4	< 2	0.01	2	8	7	< 5	< 1	< 10	6	5	< 1	< 10	< 1	8	< 1
19094	< 1	0.08	15	< 10	9	< 1	< 5	<0.01	< 1	6	14	8	3.1	<0.01	6	2	0.01	1	22	7	< 5	< 1	10	11	6	< 1	< 10	< 1	12	< 1
19095	< 1	0.08	15	< 10	10	< 1	< 5	<0.01	< 1	7	12	8	3.1	<0.01	4	2	0.01	1	78	8	< 5	< 1	20	10	4	< 1	< 10	1	16	< 1
19096 TG	< 1	2.9	< 5	< 10	37	< 1	< 5	0.38	< 1	13	42	22	5.3	1.1	530	6	0.03	22	950	6	10	7	< 10	12	800	130	< 10	11	96	11
19097	< 1	1.3	10	< 10	36	< 1	< 5	0.75	< 1	5	73	17	2.0	0.67	280	6	0.03	15	300	5	5	2	< 10	8	430	43	< 10	4	57	4
19098 CL #7	2	2.4	55	< 10	33	< 1	< 5	0.40	1	16	73	42	5.0	1.1	750	< 2	0.02	44	1700	11	10	6	< 10	8	110	85	< 10	9	140	5
19099	< 1	0.72	20	< 10	44	< 1	< 5	0.06	< 1	9	31	25	3.6	0.45	280	4	0.02	16	900	7	< 5	3	< 10	5	970	14	< 10	5	41	3
19100	2	0.25	55	< 10	54	< 1	< 5	0.02	< 1	6	20	19	3.4	0.09	98	4	0.02	13	750	15	< 5	2	< 10	6	450	4	< 10	3	23	2
6815 VP Item	1	3.1	30	< 10	46	< 1	< 5	0.53	< 1	22	71	51	4.7	1.2	1000	< 2	0.02	52	2100	< 1	15	6	< 10	12	170	91	< 10	14	200	4
6816	1	2.9	150	< 10	68	< 1	< 5	0.43	4	14	58	41	5.3	1.1	760	< 2	0.02	26	1800	7	15	7	< 10	10	530	120	< 10	10	130	7
6817	2	2.9	110	< 10	58	< 1	< 5	0.43	4	17	81	40	5.1	1.2	740	< 2	0.02	50	1800	15	15	6	< 10	10	340	120	< 10	9	130	6
6818	1	1.5	120	< 10	63	< 1	< 5	0.17	2	7	45	21	4.5	0.87	360	4	0.02	17	1400	20	10	4	< 10	8	1200	58	< 10	5	65	5
6819	< 1	1.2	55	< 10	58	< 1	< 5	0.06	< 1	4	23	10	3.4	0.72	300	8	0.02	5	820	15	< 5	4	< 10	8	1400	29	< 10	4	25	5
68120	< 1	1.0	45	< 10	61	< 1	< 5	0.06	2	4	27	11	3.8	0.60	240	8	0.02	5	1100	32	< 5	3	< 10	8	1600	20	< 10	7	35	6
68121	1	0.77	25	< 10	73	< 1	< 5	0.03	< 1	3	22	7	2.5	0.45	200	4	0.02	6	480	13	< 5	2	< 10	4	830	11	< 10	4	25	2
6822 TP 07-61	2	0.83	95	< 10	65	< 1	< 5	0.05	2	6	39	18	4.1	0.62	200	4	0.02	14	910	320	< 5	4	< 10	9	990	29	< 10	4	62	3
6823	1	2.6	140	< 10	45	< 1	< 5	0.19	3	9	79	26	5.4	1.1	630	< 2	0.02	29	1900	14	10	8	< 10	10	1200	98	< 10	8	65	6
6824	1	2.3	70	< 10	65	< 1	< 5	0.26	2	8	65	37	4.7	1.0	590	< 2	0.02	33	1700	12	15	6	< 10	12	910	84	< 10	8	58	6
6825	2	1.4	35	< 10	58	< 1	< 5	0.10	< 1	8	50	30	5.0	0.73	410	2	0.02	24	1500	15	< 5	6	< 10	17	1200	56	< 10	6	48	5
6826	2	1.2	60	< 10	93	< 1	< 5	0.11	< 1	6	44	28	4.6	0.68	330	2	0.02	20	1500	16	5	5	< 10	12	800	48	< 10	6	52	4
6827	1	1.3	70	< 10	39	< 1	< 5	0.14	< 1	11	39	38	4.7	0.78	520	2	0.02	30	1300	16	5	4	< 10	7	740	43	< 10	4	70	4
6828	< 1	1.6	20	< 10	55	< 1	< 5	0.10	< 1	8	33	33	4.9	0.82	410	4	0.02	25	1300	12	< 5	4	< 10	9	1100	37	< 10	5	59	4
6829	< 1	0.23	25	< 10	120	< 1	< 5	0.05	< 1	< 1	33	6	1.2	0.06	34	6	0.04	3	160	13	< 5	< 1	< 10	6	23	< 1	< 10	4	18	2
6830	< 1	0.26	25	< 10	160	< 1	< 5	0.01	< 1	< 1	48	6	1.7	0.04	50	4	0.04	3	64	18	< 5	< 1	< 10	7	24	< 1	< 10	4	76	2
6831	< 1	0.17	30	< 10	82	< 1	< 5	0.02	< 1	< 1	37	4	1.0	0.02	18	< 2	0.03	2	58	13	< 5	< 1	< 10	5	11	< 1	< 10	2	26	1
6832	< 1	4.7	< 5	< 10	20	< 1	< 5	0.21	< 1	11	86	82	8.1	1.2	970	2	0.02	44	2300	< 1	10	12	< 10	6	180	150	< 10	9	210	12
6833	2	2.9	< 5	< 10	48	< 1	10	12	3	30	44	70	3.8	0.87	8100	< 2	0.02	51	1200	< 1	5	7	< 10	110	94	84	< 10	30	200	5
19331	< 1	0.30	30	< 10	47	< 1	< 5	0.70	< 1	2	44	20	3.3	0.14	420	2	0.05	6	240	9	< 5	1	< 10	11	32	2	< 10	3	37	2
19332	< 1	0.19	10	< 10	23	< 1	< 5	0.15	< 1	1	37	7	1.1	0.04	130	< 2	0.01	4	56	12	< 5	< 1	< 10	3	9	1	< 10	2	74	< 1
19333 TG	2	0.07	20	< 10	47	< 1	25	20	3	< 1	8	13	0.62	0.17	1100	8	0.01	18	72	< 1	< 5	2	< 10	130	< 1	18	< 10	11	150	2
19334 N.S. CL #9	< 1	0.15	70	< 10	86	< 1	< 5	0.44	1	< 1	35	22	4.4	0.02	81	18	0.05	4	240	18	< 5	< 1	< 10	12	18	< 1	< 10	5	56	4
19335	< 1	0.11	55	< 10	43	< 1	< 5	0.12	< 1	< 1	28	23	2.9	0.02	100	4	0.04	5	86	9	< 5	< 1	< 10	7	12	< 1	< 10	3	29	2

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

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Page No. : 1 of 2
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Date : SEP-21-1992

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

Chip line 5 all altered Andesites

Flower Gossan on Treaty Creek Gossan

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
749	8	0.47	250	< 10	150	< 1	< 5	0.02	6	1	17	80	4.9	0.16	250	2	0.02	3	1000	110	< 5	1	< 10	18	80	22	< 10	4	79	3
750	3	0.60	170	< 10	130	< 1	< 5	0.05	3	1	14	52	4.8	0.18	360	2	0.03	1	1100	50	< 5	2	< 10	13	130	25	< 10	4	85	3
751	5	0.25	230	< 10	140	< 1	5	0.01	5	1	30	77	4.6	0.03	94	2	0.02	2	900	59	< 5	1	< 10	32	180	14	< 10	3	180	2
752	5	1.2	300	< 10	49	< 1	5	0.03	6	2	13	120	6.6	0.53	1000	2	0.02	3	1600	21	< 5	4	< 10	20	90	68	< 10	4	120	4
753	2	1.0	240	< 10	100	< 1	< 5	0.01	6	1	16	100	6.1	0.46	590	2	0.02	2	1500	43	< 5	3	< 10	23	190	58	< 10	2	73	4
754	4	1.3	250	< 10	100	< 1	< 5	0.05	6	2	14	100	6.2	0.61	1100	2	0.03	2	1600	25	< 5	4	< 10	18	160	78	< 10	3	110	5
755	4	0.93	260	< 10	110	< 1	< 5	0.02	6	1	26	120	6.1	0.45	520	2	0.03	1	1600	200	< 5	4	< 10	31	470	82	< 10	2	77	5
756	9	1.1	350	< 10	100	< 1	< 5	0.02	8	< 1	13	92	5.8	0.56	860	2	0.03	1	1200	210	< 5	4	10	35	420	71	< 10	2	85	3
757	4	1.3	190	< 10	33	< 1	< 5	0.13	3	4	21	61	5.7	0.67	1400	2	0.03	1	1300	160	< 5	4	< 10	11	190	78	< 10	3	130	4
758	3	1.1	210	< 10	72	< 1	< 5	0.06	4	2	11	53	5.5	0.60	980	2	0.03	< 1	1200	110	< 5	4	< 10	18	380	68	< 10	3	100	3
759	3	1.5	160	< 10	48	< 1	< 5	0.09	2	4	15	65	5.7	0.70	1200	2	0.03	1	1300	30	< 5	5	< 10	18	540	84	< 10	3	82	4
760	2	1.3	100	< 10	76	< 1	< 5	0.03	< 1	2	15	68	5.6	0.63	900	2	0.03	2	1200	14	< 5	5	< 10	18	830	77	< 10	3	110	5
761	2	2.2	50	< 10	37	< 1	< 5	0.27	< 1	5	20	64	6.2	0.84	1900	< 2	0.02	4	1400	< 1	< 5	6	< 10	5	330	100	< 10	6	180	5
762	2	2.2	65	< 10	29	< 1	< 5	0.38	3	6	16	72	6.4	0.83	2300	< 2	0.02	3	1200	< 1	< 5	5	20	8	400	97	< 10	6	200	5
763	3	1.0	90	< 10	10	< 1	< 5	0.35	2	16	35	270	5.0	0.61	890	< 2	0.02	3	890	73	< 5	3	10	39	510	66	< 10	5	93	2
764	2	1.3	65	< 10	12	< 1	< 5	0.49	< 1	10	19	33	4.9	0.73	1200	2	0.03	2	1100	37	< 5	5	10	19	480	85	< 10	6	110	3
765	3	1.3	120	< 10	17	< 1	5	0.22	2	3	22	66	5.9	0.68	880	< 2	0.03	2	1300	11	< 5	5	10	12	750	83	< 10	4	88	3
766	4	0.67	180	< 10	13	< 1	< 5	0.19	3	10	17	58	4.6	0.38	450	< 2	0.03	2	1100	39	< 5	3	20	12	680	36	< 10	4	59	2
767	5	0.70	220	< 10	14	< 1	< 5	0.14	3	6	38	63	4.4	0.41	690	< 2	0.02	1	910	50	< 5	3	10	18	690	44	< 10	3	63	2
768	3	1.1	260	< 10	26	< 1	< 5	0.08	5	2	27	53	5.3	0.59	1100	4	0.02	2	1000	17	< 5	4	< 10	23	780	56	< 10	3	90	2
6801	1	0.71	40	< 10	130	< 1	< 5	0.04	< 1	2	17	24	2.4	0.12	79	4	0.02	10	330	9	< 5	5	< 10	4	7	23	< 10	4	79	1
6802	1	0.57	40	< 10	140	< 1	< 5	0.03	< 1	2	20	34	2.8	0.08	82	4	0.02	9	330	7	< 5	6	< 10	5	18	37	< 10	3	78	2
6803	2	0.36	40	< 10	75	< 1	< 5	0.02	< 1	1	21	58	2.3	0.03	73	4	0.02	10	190	7	< 5	7	< 10	4	12	31	< 10	2	120	2
6804	2	0.31	60	< 10	97	< 1	< 5	0.01	1	< 1	22	27	1.9	0.03	45	< 2	0.03	9	360	7	< 5	4	< 10	3	10	27	< 10	2	89	< 1
6805	1	0.76	35	< 10	84	< 1	< 5	0.02	< 1	2	22	27	2.7	0.26	78	4	0.03	11	320	7	< 5	4	< 10	3	9	30	< 10	3	50	1
6806	1	1.1	40	< 10	31	< 1	< 5	0.42	< 1	2	47	46	3.5	0.31	150	< 2	0.03	9	1900	6	< 5	7	10	14	13	57	< 10	17	32	4
6807	3	1.4	25	< 10	21	< 1	< 5	0.05	< 1	6	40	60	4.2	0.50	230	4	0.03	13	460	5	< 5	6	10	4	11	47	< 10	4	57	4
6808	1	1.2	30	< 10	130	< 1	< 5	0.79	< 1	< 1	45	23	2.7	0.36	65	4	0.03	5	3300	6	< 5	7	< 10	23	11	51	< 10	28	37	3
6809	2	1.0	50	< 10	73	< 1	< 5	0.74	< 1	2	38	34	4.1	0.28	97	6	0.03	7	2800	4	< 5	6	< 10	21	11	92	< 10	6	66	4
6810	2	1.6	20	< 10	42	< 1	< 5	0.07	< 1	5	48	51	3.3	0.65	490	2	0.03	21	260	5	5	7	< 10	6	10	58	< 10	4	74	3
6811	2	0.97	45	< 10	34	< 1	< 5	0.05	1	2	39	34	2.8	0.34	180	4	0.03	11	220	8	< 5	5	< 10	6	7	57	< 10	2	67	2
6812	2	0.63	30	< 10	110	< 1	< 5	0.01	< 1	< 1	24	18	1.3	0.10	28	26	0.03	7	200	14	< 5	4	< 10	5	7	61	< 10	2	57	3
6813	2	1.1	25	< 10	100	< 1	5	0.02	< 1	< 1	39	24	1.1	0.31	47	22	0.03	8	240	15	5	6	< 10	5	6	98	< 10	2	36	5
6814	2	1.3	35	< 10	130	< 1	< 5	0.01	< 1	< 1	45	37	1.5	0.33	73	24	0.03	12	270	15	10	5	< 10	5	7	99	< 10	2	68	4
19069	1	0.22	35	< 10	170	< 1	< 5	0.03	< 1	6	86	8	0.91	0.03	60	< 2	0.02	4	40	36	25	< 1	< 10	22	22	8	< 10	< 1	5	1

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED : Dan Pilipiak

TSL/92

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Date : SEP-21-1992

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
19070	1	0.06	15	< 10	69	< 1	< 5	0.01	< 1	36	110	13	1.1	0.01	70	< 2	0.02	10	22	13	20	< 1	< 10	10	37	4	< 10	< 1	5	< 1
19071	1	0.15	55	< 10	64	< 1	< 5	0.02	< 1	19	97	9	1.1	0.01	40	< 2	0.02	5	32	45	45	< 1	< 10	20	26	4	< 10	< 1	5	< 1
19072	1	0.10	90	< 10	12	< 1	< 5	0.02	3	41	94	21	2.4	0.01	44	< 2	0.02	7	18	26	15	< 1	< 10	7	23	4	< 10	< 1	9	< 1
19073	< 1	0.11	85	< 10	10	< 1	< 5	0.02	3	52	120	21	3.1	0.01	47	< 2	0.02	10	18	23	10	< 1	10	13	25	5	< 10	< 1	10	< 1
19074 LC-3	< 1	0.13	70	< 10	10	< 1	< 5	0.03	3	27	110	20	3.1	0.03	51	< 2	0.02	6	34	18	5	< 1	10	11	33	5	< 10	< 1	8	< 1
19075	< 1	0.20	35	< 10	13	< 1	< 5	0.02	1	10	81	14	2.6	0.02	32	< 2	0.02	4	22	21	35	< 1	< 10	14	17	4	< 10	< 1	8	< 1
19076	1	0.14	30	< 10	24	< 1	5	0.02	< 1	4	92	9	1.5	0.03	34	< 2	0.02	4	32	17	110	< 1	< 10	16	33	7	< 10	< 1	5	< 1
19077	< 1	0.16	60	< 10	12	< 1	< 5	0.02	2	9	100	18	2.8	0.02	36	< 2	0.02	11	20	14	60	< 1	10	13	23	5	< 10	< 1	8	< 1
19078	< 1	0.08	75	< 10	6	< 1	< 5	0.02	2	18	81	24	4.0	0.01	34	< 2	0.01	6	20	11	30	< 1	20	6	23	3	< 10	< 1	8	< 1
19079	< 1	0.13	85	< 10	7	< 1	< 5	0.02	3	38	110	32	4.0	0.02	44	< 2	0.01	8	32	23	15	< 1	20	14	24	5	< 10	< 1	13	< 1
19080 390 ppb Au	7	0.12	50	< 10	7	< 1	< 5	0.04	1	9	67	11	4.5	0.03	59	2	0.02	4	48	36	70	< 1	20	15	43	7	< 10	< 1	17	2
19081 430	9	0.09	45	< 10	3	< 1	5	0.05	< 1	12	54	17	6.8	0.05	75	2	0.02	5	62	17	210	< 1	30	8	45	7	< 10	1	14	3
19082 290 ↓ LC-2	4	0.13	45	< 10	4	< 1	< 5	0.03	< 1	11	54	16	5.7	0.02	41	2	0.02	5	38	57	45	< 1	30	20	24	6	< 10	< 1	8	1

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED : Denis Pelletier

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File No. : SE17MA
Date : SEP-21-1992

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
19083	< 1	0.10	150	< 10	14	< 1	< 5	0.03	14	6	49	26	3.7	0.02	32	2	0.02	4	38	67	50	< 1	10	20	26	5	< 10	< 1	330	< 1
19084	< 1	0.15	25	< 10	14	< 1	< 5	0.04	8	5	39	21	3.8	0.02	34	2	0.02	3	38	41	35	< 1	20	11	23	7	< 10	< 1	200	< 1
19085	< 1	0.11	40	< 10	19	< 1	< 5	0.03	1	6	36	10	3.6	0.02	33	< 2	0.02	3	30	8	25	< 1	10	14	16	6	< 10	< 1	30	< 1
19086	< 1	0.13	1500	< 10	13	< 1	< 5	0.04	32	7	39	12	4.4	0.03	44	< 2	0.02	2	46	6	30	< 1	20	11	25	8	< 10	< 1	33	< 1
19087	< 1	0.10	60	< 10	9	< 1	< 5	0.03	1	11	25	11	4.2	0.02	31	2	0.02	3	34	6	20	< 1	10	11	20	7	< 10	< 1	18	< 1
19235	3	1.5	130	< 10	39	< 1	< 5	0.67	2	10	14	27	5.5	0.66	3300	< 2	0.02	2	1400	3	< 5	3	10	8	120	52	< 10	4	100	6
19236	6	1.8	110	< 10	41	< 1	< 5	0.37	2	11	19	140	5.4	0.77	3600	< 2	0.02	2	1300	4	< 5	3	10	4	73	64	< 10	4	110	5
19237	13	1.5	100	< 10	65	< 1	< 5	0.13	1	6	13	100	5.4	0.71	2000	< 2	0.02	1	1300	7	< 5	3	< 10	4	250	66	< 10	3	110	4
19238	8	1.3	170	< 10	45	< 1	< 5	0.15	3	4	10	110	5.9	0.60	2100	< 2	0.02	1	1400	8	5	3	10	5	210	54	< 10	3	92	8
19239	4	1.7	280	< 10	42	< 1	< 5	0.20	5	13	25	140	6.8	0.70	3800	2	0.02	7	1500	5	< 5	4	< 10	4	170	64	< 10	4	97	8
19240	5	1.2	220	< 10	76	< 1	< 5	0.68	4	6	13	97	6.5	0.60	1700	< 2	0.03	3	1400	230	< 5	3	< 10	14	93	72	< 10	3	100	3
19241	7	0.57	610	< 10	130	< 1	< 5	0.02	13	1	18	85	6.1	0.26	580	2	0.03	2	1300	670	< 5	2	< 10	40	110	40	< 10	1	97	4
19242	15	1.2	300	< 10	310	< 1	< 5	0.01	6	3	10	120	6.4	0.66	1800	2	0.03	2	1400	700	10	3	< 10	54	100	60	< 10	2	220	5
19243	5	0.66	400	< 10	130	< 1	< 5	0.02	9	3	14	130	6.3	0.30	640	2	0.02	1	1400	24	< 5	3	< 10	25	200	43	< 10	2	78	4
19244	6	1.6	150	< 10	80	< 1	< 5	0.03	4	1	13	210	7.4	0.55	1400	2	0.02	2	1400	38	< 5	4	< 10	6	200	69	< 10	3	120	5
19245	5	1.1	310	< 10	200	< 1	< 5	<0.01	5	1	13	180	7.4	0.38	750	2	0.02	1	1300	37	< 5	3	< 10	14	260	54	< 10	2	100	3
19246	9	0.79	350	< 10	200	< 1	< 5	0.01	8	1	14	180	7.6	0.32	570	2	0.02	2	1700	150	< 5	3	< 10	34	180	55	< 10	2	91	4
19247	11	0.78	250	< 10	160	< 1	< 5	0.01	4	1	12	170	7.4	0.31	630	2	0.02	2	1500	140	< 5	3	< 10	14	170	54	< 10	2	82	3
19248	12	0.88	200	< 10	190	< 1	< 5	0.01	4	2	13	170	7.1	0.34	710	2	0.02	3	1300	44	< 5	3	< 10	13	230	47	< 10	2	89	3
19249	5	0.42	210	< 10	250	< 1	< 5	0.01	3	2	27	120	6.4	0.15	240	4	0.02	< 1	1200	130	< 5	2	< 10	28	75	44	< 10	3	140	2
19250	9	0.29	250	< 10	150	< 1	< 5	<0.01	5	< 1	11	100	5.7	0.08	120	2	0.02	3	1300	600	< 5	1	< 10	38	230	28	< 10	2	62	2
19314	< 1	1.1	35	< 10	150	< 1	< 5	0.55	< 1	1	10	7	3.3	0.52	200	< 2	0.03	3	2200	16	< 5	2	< 10	15	210	67	< 10	8	18	2
19315	4	0.18	140	< 10	72	< 1	< 5	0.03	2	< 1	12	31	3.6	0.05	69	< 2	0.05	1	410	16	< 5	< 1	< 10	44	71	9	< 10	< 1	7	< 1
19316	12	0.20	220	< 10	130	< 1	< 5	0.04	4	< 1	14	30	2.9	0.03	34	< 2	0.02	2	620	78	< 5	2	< 10	62	57	7	< 10	< 1	9	2
19317	20	0.16	390	< 10	63	< 1	< 5	0.03	7	< 1	10	26	3.6	0.03	27	4	0.03	< 1	760	130	25	1	< 10	93	48	6	< 10	< 1	7	1
19318	5	0.35	110	< 10	110	< 1	< 5	0.03	2	< 1	11	66	4.5	0.17	130	2	0.03	1	1000	25	< 5	1	< 10	49	170	34	< 10	1	17	1
19319	8	0.18	110	< 10	150	< 1	< 5	0.03	2	< 1	19	41	3.3	0.02	27	4	0.02	< 1	730	73	< 5	1	< 10	65	130	17	< 10	< 1	14	1
19320	6	0.21	70	< 10	86	< 1	< 5	0.02	< 1	7	16	43	4.0	0.08	72	4	0.02	3	460	14	< 5	< 1	< 10	36	290	36	< 10	< 1	11	< 1
19321	8	0.26	70	< 10	200	< 1	< 5	0.02	1	1	15	45	3.2	0.10	110	4	0.02	< 1	690	46	< 5	2	< 10	44	340	35	< 10	< 1	22	2
19322	3	0.10	30	< 10	220	< 1	< 5	1.5	< 1	1	31	3	1.6	0.05	1100	< 2	0.03	4	48	12	< 5	1	< 10	24	8	3	< 10	7	12	1
19323	180	0.16	3700	< 10	5	< 1	< 5	0.07	89	2	26	44	8.7	0.13	55	44	0.02	8	76	350	270	< 1	40	6	10	5	< 10	2	240	4
19324	110	0.15	2000	< 10	10	< 1	< 5	0.03	46	< 1	34	36	6.2	0.03	29	18	0.01	3	36	310	95	< 1	30	4	11	5	< 10	2	460	3
19325	2	0.04	660	< 10	3	< 1	50	0.02	27	4	34	2	15	0.02	39	12	0.01	2	56	230	65	< 1	100	6	20	< 1	< 10	1	140	17
19326	2	0.09	120	< 10	9	< 1	< 5	0.02	2	5	23	10	4.6	0.01	36	2	0.02	1	26	6	< 5	< 1	20	10	9	5	< 10	< 1	25	< 1
19327	1	0.11	160	< 10	7	< 1	< 5	0.02	3	6	45	13	4.5	0.02	24	2	0.02	4	34	10	10	< 1	20	9	15	6	< 10	< 1	30	< 1

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED :

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I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
19328	1	0.12	40	< 10	7	< 1	< 5	0.04	< 1	7	21	13	4.6	0.03	29	2	0.02	2	50	8	30	< 1	20	13	17	6	< 10	< 1	26	< 1
19329	2	0.05	140	< 10	2	< 1	30	0.02	10	13	54	53	12	0.02	75	10	0.01	4	52	41	< 5	< 1	70	7	19	2	< 10	1	19	11
19330	< 1	0.05	40	< 10	5	< 1	< 5	0.03	< 1	9	65	36	6.6	0.01	66	6	0.01	4	24	12	< 5	< 1	30	12	9	5	< 10	< 1	9	< 1
19351	1	0.34	200	< 10	12	< 1	< 5	4.0	5	24	27	21	6.7	0.22	760	< 2	0.02	14	890	10	< 5	4	40	260	4	13	< 10	9	87	4
19352	2	0.36	180	< 10	13	< 1	< 5	3.6	5	22	20	54	6.0	0.39	950	< 2	0.02	13	880	4	15	4	20	280	5	14	< 10	10	110	3
19353	1	1.3	380	< 10	12	< 1	< 5	2.1	7	18	62	34	5.2	0.89	1300	< 2	0.02	45	1500	8	10	7	20	63	5	51	< 10	9	70	7
19354	< 1	0.26	30	< 10	18	< 1	< 5	0.11	< 1	6	31	8	3.1	0.06	24	4	0.03	3	48	9	< 5	< 1	10	8	3	6	< 10	1	5	2
19405	1	2.9	45	< 10	42	< 1	< 5	0.80	< 1	28	24	59	6.3	0.92	1600	< 2	0.02	12	510	< 1	< 5	4	10	18	250	68	< 10	5	99	5
19406	3	0.44	< 5	< 10	210	< 1	< 5	7.0	2	14	16	28	5.4	0.94	2600	< 2	0.02	5	590	< 1	15	13	< 10	250	< 1	24	< 10	18	130	9
19407	15	0.40	15	< 10	200	< 1	< 5	7.5	< 1	16	15	240	5.9	0.93	2500	< 2	0.02	5	790	2	120	10	< 10	390	< 1	25	< 10	25	240	7
19408	5	0.31	10	< 10	230	< 1	< 5	7.2	1	17	14	74	6.6	0.90	3200	< 2	0.02	6	490	3	20	10	< 10	250	< 1	22	< 10	25	170	9
19409	5	0.24	< 5	< 10	290	< 1	20	10	2	12	10	45	7.4	1.0	4500	2	0.02	4	280	1	25	6	< 10	260	< 1	20	< 10	28	140	10
19410	< 1	0.57	5	< 10	110	< 1	< 5	2.1	< 1	12	24	68	3.6	0.62	890	< 2	0.04	6	780	1	< 5	9	< 10	110	6	25	< 10	9	60	5
19411	< 1	2.6	30	< 10	92	< 1	< 5	2.5	< 1	23	21	22	6.4	0.88	1500	< 2	0.02	11	870	1	< 5	10	< 10	68	17	82	< 10	9	120	8
19412	1	2.8	< 5	< 10	38	< 1	< 5	3.2	< 1	22	30	33	6.1	0.94	1600	< 2	0.02	12	660	8	5	9	< 10	84	16	90	< 10	8	130	7
19413	1	2.9	70	< 10	71	< 1	< 5	1.4	< 1	19	28	38	6.0	0.88	1200	< 2	0.03	9	980	11	< 5	7	< 10	30	150	100	< 10	10	110	5
19414	1	3.2	65	< 10	56	< 1	< 5	1.6	1	21	24	40	6.2	1.1	1500	< 2	0.02	14	900	< 1	10	7	10	32	220	100	< 10	8	130	6
19415	< 1	1.9	400	< 10	50	< 1	< 5	0.12	8	3	33	27	8.3	0.83	760	6	0.02	4	2200	26	< 5	3	< 10	26	14	72	< 10	2	73	3
19416	< 1	0.69	190	< 10	52	< 1	< 5	0.18	3	4	25	12	3.0	0.36	340	2	0.02	1	420	10	< 5	1	< 10	21	160	13	< 10	3	31	3
19417	< 1	0.51	270	< 10	31	< 1	< 5	0.14	5	4	22	9	3.4	0.26	210	2	0.02	1	320	9	< 5	1	< 10	10	150	14	< 10	3	21	3
19418	< 1	0.28	25	< 10	23	< 1	< 5	0.19	< 1	5	43	13	3.2	0.15	130	4	0.02	2	310	30	< 5	< 1	10	9	33	7	< 10	2	16	3
19419	< 1	1.3	40	< 10	27	< 1	< 5	0.38	< 1	10	12	29	4.8	0.79	1100	2	0.02	3	1200	19	< 5	2	20	17	77	28	< 10	7	93	7
19420	1	0.77	45	< 10	34	< 1	< 5	0.11	1	6	36	30	3.0	0.50	670	< 2	0.02	3	610	160	< 5	< 1	< 10	220	35	14	< 10	2	65	2
19421	< 1	0.20	40	< 10	22	< 1	< 5	0.05	< 1	5	48	24	2.3	0.04	47	26	0.02	3	340	380	< 5	< 1	< 10	160	4	4	< 10	< 1	15	< 1
19422	< 1	0.47	45	< 10	32	< 1	< 5	0.04	< 1	4	46	18	2.8	0.29	280	6	0.02	2	370	280	< 5	< 1	< 10	100	5	7	< 10	1	47	4
19423	< 1	0.27	45	< 10	62	< 1	< 5	0.02	1	2	36	24	1.1	0.10	76	2	0.02	2	370	440	< 5	< 1	< 10	140	3	4	< 10	< 1	24	2
19424	< 1	1.2	45	< 10	37	< 1	< 5	0.12	2	8	31	74	3.5	0.75	950	4	0.02	2	900	150	5	1	10	140	7	18	< 10	3	110	6
19425	< 1	1.7	25	< 10	30	< 1	< 5	1.8	< 1	11	12	61	4.2	0.85	2900	< 2	0.03	2	1200	12	5	3	< 10	23	170	37	< 10	8	110	4
19426	1	0.19	130	< 10	64	< 1	< 5	0.06	3	< 1	51	5	2.0	0.06	110	< 2	0.04	3	160	88	< 5	< 1	< 10	6	5	2	< 10	2	90	< 1
19427	< 1	0.22	85	< 10	96	< 1	< 5	0.05	2	< 1	33	5	2.1	0.03	65	< 2	0.04	3	180	99	< 5	< 1	< 10	5	7	2	< 10	2	130	< 1
19428	< 1	0.19	80	< 10	180	< 1	< 5	0.04	2	< 1	53	3	1.7	0.02	34	< 2	0.05	2	300	98	< 5	< 1	< 10	9	6	2	< 10	2	48	< 1
19429	< 1	0.22	80	< 10	210	< 1	< 5	0.02	1	< 1	32	2	1.4	0.01	24	< 2	0.04	1	68	27	< 5	< 1	< 10	7	5	< 1	< 10	2	23	1
19430	< 1	0.23	110	< 10	180	< 1	< 5	0.02	2	< 1	69	3	1.7	0.01	40	< 2	0.04	3	110	24	< 5	< 1	< 10	8	5	2	< 10	2	34	< 1
19431	< 1	0.19	170	< 10	120	< 1	10	0.03	3	< 1	63	3	1.4	0.01	110	2	0.05	4	72	19	< 5	< 1	< 10	6	7	1	< 10	4	40	< 1
19432	< 1	0.19	85	< 10	130	< 1	5	0.02	1	< 1	76	3	1.2	0.01	32	2	0.04	2	78	19	< 5	< 1	< 10	5	5	2	< 10	2	18	< 1

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED :

TSL/92

L...ra...es ..L/A...YEl.. Lab...tor...
780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

PRIME EXPL ..ATIONS LTD
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ATTN:P.LOUGHEED
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REPORT No. : T196
Page No. : 3 of 3
File No. : SE17MA
Date : SEP-21-1992

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
19433	< 1	0.18	55	< 10	110	< 1	< 5	0.05	< 1	< 1	42	2	1.6	0.02	24	6	0.04	3	88	16	< 5	< 1	< 10	5	5	3	< 10	2	14	< 1
19434	< 1	0.90	70	< 10	97	< 1	< 5	0.02	< 1	3	31	11	4.5	0.31	380	4	0.03	3	130	17	< 5	1	< 10	4	11	8	< 10	3	50	< 1
19435	< 1	0.78	50	< 10	75	< 1	< 5	0.11	2	3	29	8	2.3	0.28	490	2	0.04	4	620	14	< 5	1	< 10	5	8	6	< 10	7	46	1
19436	< 1	1.5	35	< 10	54	< 1	< 5	0.03	< 1	4	49	9	5.8	0.63	590	4	0.03	4	180	10	< 5	2	< 10	5	11	12	< 10	4	82	3
19437	< 1	0.78	35	< 10	71	< 1	< 5	0.11	< 1	2	19	7	5.8	0.27	230	6	0.03	2	710	18	< 5	< 1	< 10	6	9	11	< 10	8	64	1
19438	< 1	1.1	25	< 10	62	< 1	< 5	0.01	< 1	3	24	11	6.3	0.41	310	4	0.03	3	190	19	< 5	1	< 10	4	9	22	< 10	3	78	3
19439	< 1	1.1	25	< 10	20	< 1	< 5	0.02	< 1	2	15	12	7.1	0.46	350	6	0.03	2	260	12	< 5	3	10	3	9	3	< 10	3	65	3
19440	< 1	0.66	60	< 10	29	< 1	< 5	0.10	< 1	4	16	11	8.9	0.23	230	22	0.03	4	1300	13	< 5	3	< 10	7	11	7	< 10	8	63	6
19441	1	0.74	520	< 10	12	< 1	< 5	0.51	10	9	44	15	8.3	0.29	390	30	0.05	5	2900	15	10	3	20	16	20	9	< 10	23	110	7
19442	2	0.91	60	< 10	70	< 1	< 5	0.06	2	4	47	47	3.3	0.33	140	18	0.02	40	560	14	< 5	4	< 10	4	5	59	< 10	8	330	2
19443	< 1	1.3	45	< 10	91	< 1	< 5	0.18	3	6	38	46	4.0	0.50	240	24	0.02	48	930	14	< 5	5	< 10	10	6	81	< 10	13	510	3
19444	2	1.0	45	< 10	71	< 1	< 5	0.30	2	6	48	41	2.9	0.37	130	16	0.03	38	1500	13	< 5	6	< 10	12	6	66	< 10	11	300	5
19445	2	1.1	35	< 10	270	< 1	< 5	0.36	2	3	43	37	3.8	0.37	120	24	0.02	22	2000	12	5	4	< 10	18	5	120	< 10	9	270	3
19446	2	1.3	35	< 10	67	< 1	< 5	0.39	< 1	1	42	59	4.5	0.45	87	26	0.02	20	2000	14	< 5	5	< 10	14	5	120	< 10	18	220	4

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED : Dan Pilyiak

TSL/92

PRIME EXP. RATIONS LTD
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REPORT No. : T19?
Page No. : 1 of 2
File No. : SE17MA
Date : SEP-21-1992

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
769	< 1	0.24	20	< 10	300	< 1	< 5	0.08	< 1	3	49	30	2.3	0.13	85	4	0.02	3	340	43	< 5	1	< 10	56	22	6	< 10	2	99	1
770	2	0.18	30	< 10	44	< 1	< 5	0.04	< 1	3	26	19	3.1	0.06	88	18	0.02	1	630	30	< 5	< 1	< 10	26	9	6	< 10	2	35	3
771	2	0.12	15	< 10	48	< 1	< 5	0.02	< 1	3	32	14	2.5	0.05	55	6	0.02	2	420	25	< 5	< 1	< 10	46	12	4	< 10	1	32	2
772	2	0.45	20	< 10	76	< 1	< 5	0.07	< 1	6	32	27	2.8	0.31	520	6	0.02	1	720	23	< 5	< 1	< 10	20	18	8	< 10	3	110	3
773	1	0.27	25	< 10	27	< 1	< 5	0.07	< 1	6	28	30	3.8	0.13	280	4	0.02	2	760	34	< 5	< 1	< 10	17	22	8	< 10	4	130	5
774	3	0.17	70	< 10	46	< 1	< 5	0.02	< 1	3	27	23	2.6	0.05	44	6	0.02	2	430	87	< 5	< 1	< 10	16	250	6	< 10	2	65	1
775	1	0.20	15	< 10	71	< 1	< 5	0.06	< 1	5	55	38	2.2	0.10	420	2	0.02	3	430	30	< 5	< 1	< 10	60	31	5	< 10	3	98	2
776 TG	3	0.18	55	< 10	90	< 1	< 5	0.03	1	3	33	52	3.1	0.04	84	8	0.02	1	670	58	< 5	1	< 10	22	41	6	< 10	3	160	2
777	3	0.20	70	< 10	190	< 1	< 5	0.01	1	2	37	57	3.4	0.03	79	8	0.02	2	710	160	< 5	1	< 10	29	77	8	< 10	2	130	2
778 CL#5	1	0.28	35	< 10	150	< 1	< 5	0.02	< 1	5	45	74	3.6	0.10	290	6	0.02	3	650	130	< 5	1	< 10	25	87	8	< 10	3	160	2
779	1	0.29	50	< 10	180	< 1	< 5	0.02	2	4	38	62	2.5	0.15	520	4	0.02	2	480	27	< 5	1	< 10	55	160	10	< 10	3	100	1
780	1	0.27	45	< 10	100	< 1	< 5	0.48	< 1	8	35	30	2.0	0.19	660	2	0.01	3	390	21	< 5	< 1	< 10	56	33	10	< 10	3	120	1
781	2	0.54	35	< 10	28	< 1	< 5	0.06	6	17	64	140	4.8	0.25	2200	4	0.02	4	820	96	< 5	2	< 10	28	22	13	< 10	10	290	4
782	1	0.13	20	< 10	57	< 1	< 5	0.01	< 1	1	26	18	2.1	0.03	31	6	0.02	2	170	19	< 5	< 1	< 10	10	28	4	< 10	< 1	11	3
783	1	0.28	15	< 10	69	< 1	< 5	0.03	< 1	3	35	80	3.1	0.16	150	4	0.02	1	560	17	< 5	1	< 10	12	25	8	< 10	3	160	2
784	< 1	0.18	25	< 10	56	< 1	< 5	0.02	< 1	2	30	31	2.4	0.08	63	6	0.02	2	320	13	< 5	< 1	< 10	19	38	6	< 10	1	20	< 1
785	3	0.33	410	< 10	14	< 1	< 5	0.88	9	12	14	92	4.5	0.21	980	< 2	0.02	1	790	95	40	< 1	20	21	3	7	< 10	4	140	< 1
19059	2	0.66	490	< 10	18	< 1	< 5	1.3	10	15	17	150	6.4	0.37	1600	< 2	0.02	2	1300	32	20	2	10	48	13	12	< 10	7	170	< 1
19060	2	0.80	410	< 10	19	< 1	< 5	1.8	9	13	17	76	5.1	0.53	2000	< 2	0.02	3	1400	22	10	2	20	51	26	26	< 10	6	110	1
19061 TG	< 1	0.94	230	< 10	27	< 1	< 5	1.3	5	12	10	42	3.7	0.62	1400	< 2	0.02	1	1300	18	15	2	10	24	44	26	< 10	4	93	< 1
19062	2	1.2	440	< 10	18	< 1	< 5	0.52	8	13	12	73	5.5	0.68	1200	< 2	0.02	2	1400	28	5	3	10	15	48	30	< 10	4	110	< 1
19063 CL#3	2	1.2	460	< 10	20	< 1	< 5	0.50	8	14	9	76	5.4	0.71	1200	< 2	0.02	1	1400	29	10	3	10	13	83	37	< 10	4	120	1
19064	1	1.3	220	< 10	32	< 1	< 5	1.6	4	17	11	52	4.5	0.69	2500	< 2	0.02	3	1400	17	< 5	3	< 10	24	70	34	< 10	7	180	1
19065	1	2.0	140	< 10	38	< 1	< 5	0.64	4	18	9	150	5.5	0.83	3100	< 2	0.02	3	1600	12	< 5	4	< 10	13	45	37	< 10	9	280	1
19066	1	2.1	45	< 10	29	< 1	< 5	0.19	< 1	22	72	74	4.6	0.84	740	< 2	0.02	22	1300	5	< 5	4	10	23	32	71	< 10	5	60	3
19067 TR-92-5	1	3.5	35	< 10	50	< 1	< 5	0.21	1	21	91	57	5.8	1.1	1400	< 2	0.02	29	1700	3	5	9	10	17	36	130	10	7	99	5
19068	< 1	2.2	25	< 10	15	< 1	< 5	0.11	< 1	13	60	41	4.8	0.89	690	4	0.02	16	1900	5	< 5	5	10	12	8	68	< 10	3	73	2
19451	< 1	0.25	15	< 10	23	< 1	< 5	0.02	< 1	1	31	6	2.6	0.09	52	4	0.02	1	310	12	< 5	< 1	10	10	3	9	< 10	< 1	5	< 1
19452	1	2.0	25	< 10	110	< 1	< 5	0.05	< 1	10	92	45	6.6	0.79	450	4	0.02	18	2000	3	5	8	< 10	11	19	120	< 10	3	110	5
19453 TC	1	1.3	50	< 10	89	< 1	< 5	0.02	1	6	72	42	7.1	0.58	280	4	0.02	12	2700	8	< 5	6	< 10	12	15	94	< 10	1	54	3
19454 CL#2	1	1.9	70	< 10	87	< 1	< 5	0.04	< 1	9	96	46	6.2	0.73	390	2	0.02	17	3100	8	5	7	< 10	25	11	98	< 10	2	83	4
19455	< 1	2.6	25	< 10	130	< 1	< 5	0.06	< 1	14	91	44	6.1	0.92	630	< 2	0.02	27	1800	3	< 5	8	< 10	17	15	110	< 10	4	130	4
19456	1	2.4	20	< 10	44	< 1	< 5	0.07	< 1	15	89	43	5.6	0.86	640	< 2	0.02	23	1200	4	10	6	< 10	9	11	89	< 10	2	97	2
19457	< 1	2.1	70	< 10	18	< 1	< 5	0.05	< 1	21	82	57	5.2	0.78	530	< 2	0.02	25	2700	6	< 5	5	10	19	6	65	< 10	3	69	2
19458	< 1	1.7	25	< 10	31	< 1	< 5	0.05	< 1	11	62	43	4.7	0.84	520	< 2	0.02	23	1100	9	10	5	< 10	22	8	57	< 10	4	55	1

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED : Dan Pilgrim

TSL/92

Laboratoires TSL/Assayers Laboratories
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File No. : SE17MA
Date : SEP-21-1992

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
19459	< 1	2.1	20	< 10	32	< 1	< 5	0.06	< 1	15	91	38	4.1	0.90	600	< 2	0.02	29	1600	13	< 5	6	< 10	18	6	62	< 10	4	59	2
19460	1	1.2	20	< 10	21	< 1	< 5	0.04	< 1	8	59	36	4.0	0.64	280	2	0.02	17	960	25	< 5	3	10	59	3	36	< 10	2	55	< 1
19461	2	1.1	40	< 10	18	< 1	< 5	0.06	2	11	58	33	5.0	0.60	290	2	0.02	16	1300	32	< 5	3	20	170	4	34	< 10	3	52	1
19462	< 1	2.3	90	< 10	31	< 1	< 5	0.08	4	18	70	210	4.9	0.91	720	< 2	0.02	34	960	97	< 5	5	< 10	60	7	56	< 10	5	120	3
19463	1	0.70	20	< 10	15	< 1	< 5	0.02	< 1	5	46	32	4.7	0.39	180	4	0.02	10	830	14	< 5	2	10	29	3	26	< 10	1	23	< 1
19464 TG	1	0.28	20	< 10	10	< 1	< 5	0.02	< 1	2	29	13	3.3	0.04	20	4	0.03	2	440	21	< 5	< 1	10	54	7	6	< 10	1	4	< 1
19465	< 1	0.36	45	< 10	13	< 1	< 5	0.03	< 1	2	43	28	4.7	0.04	16	4	0.03	2	2300	20	< 5	1	10	150	6	13	< 10	1	4	< 1
19466	2	0.39	15	< 10	9	< 1	< 5	0.02	< 1	6	21	21	4.4	0.09	34	2	0.03	4	580	24	< 5	< 1	20	64	5	13	< 10	1	7	< 1
19467 CL-C	1	0.33	30	< 10	13	< 1	< 5	0.03	< 1	2	29	37	3.9	0.03	17	4	0.03	3	770	32	< 5	< 1	10	290	4	13	< 10	1	5	< 1
19468	2	0.27	10	< 10	11	< 1	< 5	0.02	< 1	1	13	11	4.0	0.03	13	4	0.02	2	500	22	< 5	< 1	20	97	4	7	< 10	1	3	< 1
19469	1	3.7	55	< 10	22	< 1	< 5	0.09	2	22	120	61	7.2	1.1	1100	< 2	0.02	55	1600	30	10	9	20	62	20	120	< 10	6	160	6
19470	2	2.8	70	< 10	20	< 1	< 5	0.10	1	18	81	51	5.9	1.0	920	2	0.02	42	830	53	5	7	10	63	52	92	< 10	6	150	7
19471	1	2.1	65	< 10	14	< 1	< 5	0.18	2	14	82	66	6.0	0.90	680	2	0.02	21	1400	92	5	7	30	63	1000	81	< 10	4	100	6
19481	3	0.77	150	< 10	23	< 1	< 5	0.06	4	7	24	160	3.3	0.25	300	< 2	0.02	4	860	77	40	2	10	240	6	18	< 10	2	160	< 1
19482	1	0.65	95	< 10	19	< 1	< 5	0.05	1	6	38	54	3.5	0.08	67	< 2	0.02	4	1400	48	5	1	10	360	9	11	< 10	2	50	< 1
19483	1	1.3	120	< 10	22	< 1	< 5	0.09	1	9	23	120	4.5	0.47	610	2	0.02	5	1300	24	15	2	10	310	28	28	< 10	4	140	< 1
19484	< 1	3.3	120	< 10	24	< 1	< 5	0.37	9	20	90	110	6.0	1.0	1800	< 2	0.02	36	1700	42	15	7	< 10	210	1000	90	50	9	510	6
19485	< 1	3.7	160	< 10	21	< 1	< 5	0.58	1	32	110	59	7.6	1.2	2700	< 2	0.03	53	1100	30	15	11	< 10	14	1300	130	10	13	210	10
19486	2	3.1	390	< 10	16	< 1	< 5	0.31	9	14	70	1200	6.6	0.86	1200	2	0.02	8	2000	36	20	5	30	110	710	60	< 10	5	130	4
19487	3	1.3	250	< 10	16	< 1	< 5	0.31	5	17	15	180	6.1	0.38	280	< 2	0.02	4	1700	44	< 5	3	30	230	970	23	< 10	9	55	2
19488	< 1	5.6	170	< 10	37	1	< 5	0.79	3	22	97	250	5.4	1.0	1300	< 2	0.02	44	9100	14	20	11	20	2700	860	140	< 10	14	120	7
19489	2	2.5	110	< 10	28	< 1	< 5	0.33	3	13	29	210	4.8	0.83	790	< 2	0.02	6	3000	86	10	4	20	150	440	53	< 10	5	170	2
19490	2	4.9	35	< 10	51	< 1	< 5	0.24	3	29	92	220	7.0	1.1	1500	< 2	0.02	55	2200	11	10	10	10	310	190	130	< 10	11	110	7
19491 TP.21-5	2	3.1	150	< 10	44	< 1	< 5	0.20	2	20	59	180	5.1	0.90	830	< 2	0.02	38	1600	23	5	5	< 10	47	29	64	< 10	7	110	6
19492	1	1.5	70	< 10	43	< 1	< 5	0.13	1	10	35	140	4.5	0.48	270	< 2	0.02	6	2900	23	< 5	3	20	580	27	21	< 10	5	65	3
19493	3	1.7	60	< 10	12	< 1	< 5	0.06	< 1	15	68	100	5.5	0.74	400	2	0.02	18	1100	25	< 5	4	10	94	48	52	< 10	6	44	2
19494	3	0.91	30	< 10	52	< 1	< 5	0.18	< 1	10	26	69	3.9	0.07	25	4	0.02	2	4000	24	< 5	3	20	1400	11	20	< 10	5	9	< 1
19495	1	4.2	55	< 10	45	< 1	< 5	0.15	2	23	110	74	6.2	1.1	930	< 2	0.02	50	1700	4	5	10	20	100	180	130	< 10	8	76	6
19496	2	0.56	30	< 10	29	< 1	< 5	0.07	< 1	5	20	29	3.5	0.20	64	< 2	0.02	4	1500	28	< 5	2	< 10	330	12	15	< 10	3	7	< 1
19497	< 1	4.9	35	< 10	63	< 1	< 5	0.28	< 1	27	130	85	7.2	1.2	1400	< 2	0.02	48	2500	4	10	11	10	71	990	150	< 10	10	110	7
19498	< 1	3.8	40	< 10	45	< 1	< 5	0.24	< 1	23	130	56	6.0	1.1	1100	< 2	0.02	41	1900	< 1	15	10	10	43	920	140	< 10	10	110	7
19499	< 1	1.9	40	< 10	23	< 1	< 5	0.12	< 1	10	110	31	4.6	0.83	530	2	0.02	24	1300	15	< 5	6	10	52	920	72	< 10	7	41	4
19500	1	2.8	20	< 10	20	< 1	< 5	0.16	< 1	19	100	52	6.0	1.0	850	< 2	0.02	29	1200	8	5	6	10	34	440	92	< 10	8	71	4

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED : Dan Pilgrim

TSL/92

PRIME EXP. RATIONS LTD
VANCOUVER B.C.
S4786
ATTN:M.LAPOINTE
PROJ.:TTUTC

780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

REPORT No. : T19?
Page No. : 1 of 2
File No. : SE17MA
Date : SEP-21-1992

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
04601	1	0.59	40	< 10	38	< 1	< 5	10	< 1	8	23	46	3.2	0.50	1900	< 2	0.02	29	1100	8	< 5	4	< 10	110	8	17	< 10	14	240	2
04602	1	1.0	45	< 10	17	< 1	< 5	0.70	< 1	7	33	63	4.5	0.43	390	4	0.02	27	2100	11	< 5	6	10	16	8	41	< 10	15	160	3
04603	1	0.10	170	< 10	9	< 1	< 5	0.11	5	3	120	16	3.6	0.03	42	4	0.02	7	56	81	85	< 1	10	19	15	4	< 10	< 1	43	< 1
04604	< 1	0.23	180	< 10	3	< 1	10	0.04	6	10	30	20	6.5	0.02	24	4	0.01	4	56	58	60	< 1	30	18	8	5	< 10	< 1	70	< 1
04605	1	0.10	70	< 10	3	< 1	< 5	0.03	2	8	37	13	8.4	0.01	29	6	0.02	4	52	34	170	< 1	50	36	9	4	< 10	< 1	86	1
04606	< 1	0.10	20	< 10	< 1	< 1	< 5	0.03	1	12	55	16	11	0.01	15	8	0.02	5	50	39	< 5	< 1	60	8	6	< 1	< 10	1	110	5
04607	< 1	0.19	65	< 10	19	< 1	< 5	0.03	< 1	2	28	12	2.9	0.02	30	22	0.03	18	190	10	< 5	1	< 10	8	7	5	< 10	2	27	2
04608	11	0.30	910	< 10	130	< 1	10	21	21	5	33	2000	1.2	0.26	3400	< 2	0.02	4	22	11	180	2	< 10	510	< 1	10	< 10	15	97	< 1
04609	26	0.23	690	< 10	92	< 1	< 5	0.56	21	10	58	52	3.9	0.04	5200	80	0.02	4	780	900	35	4	< 10	21	6	12	< 10	6	1400	2
04610	15	0.32	490	< 10	16	< 1	< 5	0.44	10	11	30	60	4.2	0.03	1500	4	0.02	6	490	84	30	1	< 10	18	4	8	< 10	4	380	< 1
04611	16	0.28	1200	< 10	21	< 1	< 5	0.55	26	7	25	21	3.9	0.07	1800	2	0.02	3	1800	430	35	1	< 10	42	5	5	< 10	8	610	< 1
04612	26	0.22	1400	< 10	33	< 1	< 5	0.18	31	5	19	24	5.2	0.02	740	2	0.02	3	1800	890	65	2	< 10	46	8	8	< 10	3	1100	< 1
04651	2	0.32	110	< 10	46	< 1	< 5	0.14	4	5	22	52	3.3	0.03	190	12	0.02	17	260	41	< 5	4	< 10	8	6	43	< 10	4	330	2
04652	< 1	0.39	110	< 10	15	< 1	< 5	0.19	4	15	16	100	4.8	0.05	860	12	0.02	29	570	16	5	9	< 10	8	7	51	< 10	9	270	4
04653	1	0.42	90	< 10	10	< 1	< 5	0.14	2	11	20	78	4.5	0.12	280	4	0.03	18	590	12	5	10	10	5	6	56	< 10	8	150	5
04654	< 1	0.26	75	< 10	9	< 1	< 5	0.08	1	6	15	52	3.3	0.03	180	4	0.02	12	350	10	< 5	6	< 10	4	4	29	< 10	4	90	3
04655	1	0.20	65	< 10	64	< 1	< 5	0.09	< 1	4	17	30	2.4	0.02	180	4	0.02	11	180	11	< 5	5	< 10	6	5	32	< 10	3	130	1
04656	1	0.26	50	< 10	27	< 1	< 5	0.09	< 1	6	15	56	3.8	0.02	200	4	0.02	12	280	9	< 5	9	< 10	6	5	44	< 10	5	120	4
04657	2	0.37	35	< 10	65	< 1	< 5	0.13	< 1	6	18	48	3.8	0.03	160	6	0.02	12	310	10	< 5	7	< 10	8	4	33	< 10	6	130	2
04658	2	0.40	30	< 10	120	< 1	< 5	0.12	1	4	19	48	3.5	0.02	170	4	0.02	13	240	10	< 5	8	< 10	8	4	39	< 10	5	160	5
04659	3	0.38	45	< 10	130	< 1	< 5	0.25	2	4	18	44	3.2	0.03	140	10	0.02	17	470	10	< 5	7	< 10	13	4	52	< 10	7	260	3
04660	2	0.40	35	< 10	110	< 1	< 5	0.17	1	5	17	55	3.7	0.03	240	6	0.02	19	230	12	< 5	8	< 10	10	4	35	< 10	5	240	4
04661	3	0.35	45	< 10	160	< 1	< 5	0.12	1	4	24	43	3.4	0.02	210	6	0.02	13	230	10	< 5	7	< 10	9	4	43	< 10	5	150	3
04662	2	0.42	50	< 10	50	< 1	< 5	0.06	1	3	20	64	3.3	0.02	120	6	0.02	15	280	10	< 5	8	< 10	4	5	28	< 10	6	130	4
04663	4	0.42	65	< 10	12	< 1	< 5	0.19	< 1	8	20	92	4.9	0.03	300	8	0.02	29	640	12	< 5	9	10	6	5	33	< 10	8	200	5
04664	3	0.35	65	< 10	17	< 1	< 5	0.09	1	6	22	65	4.4	0.02	200	8	0.02	20	260	11	< 5	9	< 10	4	4	48	< 10	6	180	5
04665	2	0.42	50	< 10	42	< 1	< 5	0.51	2	5	15	67	4.1	0.02	580	6	0.02	15	1900	10	< 5	10	< 10	14	4	39	< 10	31	170	6
04666	3	0.32	60	< 10	19	< 1	< 5	0.25	2	7	22	67	3.3	0.03	180	10	0.02	24	950	9	< 5	8	< 10	7	4	46	< 10	12	170	3
04667	3	0.31	75	< 10	15	< 1	< 5	0.25	5	5	16	69	3.3	0.02	220	12	0.02	22	990	10	< 5	6	< 10	8	3	35	< 10	12	230	4
3268 04678	1	0.30	70	< 10	16	< 1	< 5	0.19	2	9	17	70	4.0	0.07	280	6	0.02	32	450	10	< 5	7	< 10	7	4	29	< 10	7	250	4
04669	3	0.36	60	< 10	45	< 1	< 5	8.1	8	4	18	42	3.0	0.22	3700	6	0.02	24	2900	8	< 5	6	< 10	100	2	28	< 10	25	520	5
04670	1	0.30	50	< 10	14	< 1	< 5	0.66	< 1	8	22	68	4.1	0.23	400	4	0.02	31	920	11	< 5	7	10	18	7	29	< 10	15	180	4
04671	2	0.32	70	< 10	16	< 1	< 5	0.27	< 1	5	20	57	4.3	0.04	270	8	0.02	19	690	22	< 5	5	< 10	10	5	26	< 10	10	130	3
04672	2	0.29	65	< 10	19	< 1	5	3.3	4	7	34	57	3.9	0.75	560	4	0.02	28	350	18	< 5	7	< 10	90	4	26	< 10	11	300	4
04673	2	0.32	75	< 10	17	< 1	< 5	1.5	1	7	29	55	4.2	0.39	620	4	0.02	25	1300	14	< 5	6	< 10	29	3	23	< 10	14	220	3

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED :

TSL/92

...ora...re... ..SL/...AYE... Lal...ato...s

780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6

PHONE #: 819-797-4653 FAX #: 819-797-4501

PRIME EXP..RATIONS LTD

VANCOUVER B.C.

S4786

ATTN:M.LAPOINTE

PROJ.:TTUTC

REPORT No. : T19,

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File No. : SE17MA

Date : SEP-21-1992

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
04674	2	0.43	85	< 10	25	< 1	< 5	0.23	2	5	31	56	4.7	0.05	180	4	0.02	15	1700	11	< 5	6	< 10	9	3	22	< 10	7	110	3
04675	3	0.37	70	< 10	77	< 1	< 5	0.15	1	6	24	38	4.2	0.03	370	4	0.02	13	1100	9	< 5	5	< 10	7	3	21	< 10	7	120	2
04676	2	0.30	65	< 10	42	< 1	< 5	0.07	< 1	2	23	33	4.2	0.02	71	4	0.02	8	340	7	< 5	4	< 10	4	3	21	< 10	3	82	1
04677	2	0.45	75	< 10	31	< 1	< 5	0.31	< 1	7	43	50	5.9	0.02	420	8	0.02	14	1500	7	< 5	5	< 10	10	3	22	< 10	14	140	3
04678	1	0.52	60	< 10	26	< 1	< 5	0.06	1	5	20	51	4.4	0.13	200	4	0.03	17	350	11	< 5	5	< 10	4	3	21	< 10	4	140	3
04679	3	0.30	60	< 10	21	< 1	< 5	0.17	< 1	3	17	41	4.4	0.03	140	4	0.02	15	1000	10	< 5	5	< 10	5	3	20	< 10	7	110	3
5101	2	3.0	30	< 10	50	< 1	< 5	2.2	< 1	19	66	92	4.8	1.2	1200	< 2	0.04	40	1900	7	15	12	< 10	39	76	150	20	19	130	7
5102	3	2.7	120	< 10	52	< 1	< 5	0.84	< 1	16	66	85	5.0	1.2	940	4	0.03	36	1600	17	10	8	< 10	20	140	120	< 10	16	130	6
5103	3	3.8	60	< 10	59	< 1	< 5	0.63	< 1	25	52	63	5.6	1.3	1100	< 2	0.02	45	1800	5	20	16	< 10	17	19	150	< 10	16	120	9
5104	2	3.6	90	< 10	60	< 1	< 5	0.66	2	18	45	42	5.2	1.3	960	< 2	0.02	39	2000	9	10	11	< 10	16	16	120	< 10	18	100	8
5105	2	3.3	65	< 10	68	< 1	< 5	0.74	1	17	33	30	4.6	1.3	930	< 2	0.02	27	1800	15	20	9	< 10	17	8	97	< 10	14	100	5
5106	4	2.4	50	< 10	48	< 1	< 5	0.51	2	12	33	25	4.3	1.1	680	8	0.02	18	1400	31	20	5	< 10	8	7	58	< 10	13	160	3
5107	4	1.4	40	< 10	79	< 1	< 5	0.53	2	7	45	24	2.9	0.89	580	10	0.02	35	710	25	10	4	< 10	13	6	37	< 10	9	230	1

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with D1 H2O
This method is partial for many oxide materials

SIGNED : Denis Pilotte

TSL/92

ora res SL/ AYE Lal ato s
780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

PRIME EXP RATIONS
VANCOUVER B.C.
S4796
ATTN:P.LOUGHEED
PROJ:TTUTC

REPORT No. : T19-
Page No. : 1 of 5
File No. : SE22MA
Date : OCT-07-1992

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
5108	8	1.92	45	< 10	99	< 1	< 5	0.42	6	11	40	36	3.75	0.93	563	12	0.02	23	918	102	15	4	< 10	10	38	42	< 10	10	412	2
5109	4	2.85	65	< 10	70	< 1	< 5	1.10	2	15	74	36	4.77	1.10	810	6	0.02	39	1518	16	10	9	< 10	28	25	65	< 10	13	88	4
5110	2	2.95	40	< 10	73	< 1	< 5	2.19	2	18	87	40	4.49	1.19	1067	2	0.03	55	1660	6	5	12	< 10	54	18	84	< 10	15	77	7
5111	3	2.57	75	< 10	157	< 1	< 5	1.44	2	21	66	43	4.41	1.10	1075	6	0.03	58	1588	16	< 5	11	< 10	31	34	89	< 10	15	131	6
5112	1	2.95	20	< 10	95	< 1	< 5	1.44	< 1	20	74	36	4.69	1.18	1053	2	0.05	49	1848	8	< 5	11	< 10	43	1483	134	< 10	14	95	12
5113	2	3.02	35	< 10	95	< 1	< 5	1.78	< 1	20	94	34	4.46	1.17	1044	4	0.05	55	1504	12	10	13	< 10	46	877	114	< 10	13	89	10
5114	2	3.34	30	< 10	129	< 1	< 5	1.10	1	19	52	29	5.09	1.18	1140	6	0.03	39	1934	12	10	8	< 10	20	727	103	< 10	13	90	7
5115	2	2.89	60	< 10	83	< 1	< 5	1.31	< 1	17	40	24	4.79	1.11	1017	6	0.03	26	2026	12	5	7	< 10	19	1250	91	< 10	11	90	7
5116	< 1	2.61	35	< 10	81	< 1	< 5	0.77	< 1	17	55	34	4.74	1.13	809	4	0.03	42	1686	8	5	9	10	11	1951	93	< 10	10	71	7
5117	< 1	2.41	75	< 10	58	< 1	< 5	0.94	1	15	54	37	4.35	1.11	909	6	0.03	41	1546	8	< 5	9	< 10	13	1912	90	< 10	9	68	8
5118	< 1	1.67	155	< 10	35	< 1	< 5	0.86	3	15	47	28	4.12	0.94	603	4	0.03	34	1394	11	< 5	7	10	15	1737	68	< 10	8	54	6
5119	< 1	1.75	130	< 10	60	< 1	< 5	0.85	2	15	37	28	4.01	0.93	631	4	0.04	29	1522	16	5	7	< 10	17	1929	75	< 10	8	45	8
5120	< 1	2.27	110	< 10	40	< 1	< 5	0.69	2	20	70	41	4.20	1.09	835	6	0.03	49	1322	11	< 5	10	< 10	10	1969	88	< 10	11	55	8
5121	< 1	1.74	60	< 10	21	< 1	< 5	0.57	< 1	19	60	22	4.58	0.91	560	4	0.03	41	1560	10	< 5	7	10	11	1732	55	< 10	8	39	5
5122	< 1	1.13	45	< 10	31	< 1	< 5	0.57	< 1	7	26	7	4.10	0.68	357	8	0.04	9	2020	7	< 5	5	< 10	12	1554	44	< 10	6	17	3
5123	< 1	1.97	25	< 10	23	< 1	< 5	1.17	< 1	15	35	16	4.59	1.03	685	6	0.04	20	2108	10	< 5	7	10	13	1675	75	< 10	10	52	5
5124	2	1.72	30	< 10	26	< 1	< 5	0.31	< 1	9	45	10	3.52	1.00	467	6	0.04	17	518	13	< 5	8	< 10	8	100	63	< 10	6	53	3
5125	< 1	1.96	20	< 10	89	1	< 5	0.68	< 1	3	18	4	3.07	0.98	547	4	0.03	2	1564	11	< 5	4	10	10	1914	42	< 10	14	71	4
5126	< 1	1.49	30	< 10	40	1	< 5	0.93	< 1	3	27	3	3.27	0.86	552	8	0.03	1	1574	13	< 5	4	< 10	11	1948	29	< 10	14	75	5
5127	< 1	1.45	40	< 10	42	1	< 5	0.69	< 1	3	17	4	3.19	0.86	442	8	0.03	1	1534	11	< 5	4	10	9	2042	38	< 10	14	65	7
5128	< 1	1.58	50	< 10	54	1	< 5	0.73	< 1	2	24	3	3.29	0.91	379	8	0.04	< 1	1600	12	< 5	5	20	12	2805	44	< 10	12	45	7
5129	< 1	1.68	35	< 10	56	1	< 5	0.77	< 1	2	27	4	3.26	0.95	379	6	0.04	2	1628	12	< 5	4	20	14	2741	45	< 10	12	50	7
5130	< 1	1.71	30	< 10	38	1	< 5	0.66	< 1	2	22	3	3.55	0.97	353	6	0.03	1	1522	16	< 5	4	20	12	2386	36	< 10	9	42	5
5131	2	2.35	65	< 10	96	1	< 5	0.61	1	16	80	40	4.52	0.97	935	6	0.02	51	1758	25	< 5	11	< 10	12	1080	77	< 10	17	118	7
5132	2	1.77	45	< 10	349	1	< 5	0.26	< 1	13	51	24	3.07	0.67	380	6	0.03	33	720	22	< 5	5	< 10	18	100	33	< 10	7	104	2
5133	6	0.48	130	< 10	83	< 1	< 5	0.06	3	3	39	10	3.05	0.13	42	10	0.08	6	1604	231	< 5	2	< 10	57	118	9	< 10	4	33	1
5134	< 1	1.93	25	< 10	59	1	< 5	0.55	< 1	1	23	3	3.38	1.01	421	6	0.03	1	1608	20	5	4	10	14	2278	43	< 10	9	41	4
5135	< 1	2.15	20	< 10	79	1	< 5	0.60	< 1	1	22	3	3.34	1.03	485	6	0.03	1	1634	17	10	4	< 10	14	2052	35	< 10	9	52	4
5136	< 1	2.11	30	< 10	202	1	< 5	0.75	< 1	3	29	3	3.09	1.02	619	4	0.03	2	1508	13	10	4	< 10	19	2061	34	< 10	9	93	4
5137	< 1	2.38	25	< 10	70	1	< 5	0.62	< 1	1	18	3	3.43	1.08	538	8	0.03	1	1670	14	< 5	4	< 10	14	2196	45	< 10	10	60	4
5138	< 1	2.06	25	< 10	58	1	< 5	0.57	< 1	1	25	3	3.24	1.03	436	4	0.03	1	1418	16	10	4	10	11	2559	44	< 10	9	51	6
5139	< 1	1.87	40	< 10	59	1	< 5	0.54	< 1	1	26	4	3.92	0.99	403	8	0.03	1	1366	31	10	4	10	12	2648	39	< 10	8	52	6
5140	< 1	2.54	20	< 10	55	< 1	< 5	1.61	< 1	19	75	38	4.22	1.11	997	2	0.03	47	1806	8	< 5	9	< 10	27	2183	111	< 10	13	96	8
5141	< 1	2.75	60	< 10	57	< 1	< 5	1.03	< 1	20	98	35	4.00	1.16	1017	4	0.03	66	1966	13	10	10	< 10	19	1895	106	< 10	14	107	9
5142	1	1.76	120	< 10	33	< 1	< 5	0.57	1	11	81	16	4.99	0.97	435	12	0.03	37	1310	30	< 5	7	10	9	2722	74	< 10	7	48	12

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED : Bernie Dunn

TSL/92

780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
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PRIME EXP ATIONS
VANCOUVER B.C.
S4796
ATTN:P.LOUGHEED
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I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

REPORT No. : T19
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File No. : SE22MA
Date : OCT-07-1992

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
5143	36	1.74	225	< 10	37	< 1	< 5	0.45	9	12	102	56	6.03	0.97	476	14	0.04	53	1542	2134	10	7	< 10	21	1990	64	< 10	8	556	9
5144	4	2.44	110	< 10	79	< 1	< 5	0.60	3	14	133	38	4.61	1.15	590	8	0.03	70	1702	100	15	10	< 10	13	2142	97	< 10	11	172	8
5145	3	3.46	55	< 10	40	< 1	< 5	0.68	< 1	21	170	38	5.24	1.32	870	8	0.03	103	1768	47	20	12	< 10	13	1802	127	20	12	164	7
5146	1	1.77	70	< 10	58	< 1	< 5	0.86	2	8	59	17	3.97	0.98	458	8	0.03	29	1550	97	10	6	10	16	2112	53	< 10	8	336	7
5147	< 1	3.08	45	< 10	57	< 1	< 5	0.67	2	17	143	38	4.78	1.26	878	8	0.03	86	1820	43	5	10	10	13	1726	105	< 10	9	176	8
6834	1	4.70	< 5	< 10	55	< 1	5	2.70	< 1	30	35	85	7.70	2.50	1591	2	0.03	44	1736	6	5	22	< 10	60	231	310	< 10	13	143	15
6835	5	3.64	25	< 10	68	< 1	< 5	4.74	< 1	29	45	79	6.25	1.15	1881	8	0.03	36	1564	23	20	16	< 10	78	157	230	10	15	144	10
6836	14	1.29	155	< 10	6	< 1	< 5	1.79	18	22	22	62	8.99	0.73	816	28	0.03	40	1008	714	15	6	40	34	58	69	< 10	10	1117	9
6837	8	1.32	90	< 10	35	< 1	< 5	0.61	3	10	20	41	3.97	0.65	484	16	0.02	27	532	76	10	5	< 10	13	36	30	< 10	6	205	3
6838	8	1.10	70	< 10	32	< 1	< 5	0.27	2	7	26	32	3.38	0.52	346	20	0.02	21	476	73	20	4	< 10	8	38	19	< 10	5	157	1
6839	8	1.09	100	< 10	34	< 1	< 5	0.45	1	7	22	33	3.35	0.53	410	14	0.02	21	454	52	15	4	< 10	10	26	16	< 10	5	126	2
6840	6	1.09	75	< 10	31	< 1	< 5	1.67	2	8	16	31	3.55	0.62	590	14	0.02	26	588	50	15	5	< 10	27	23	19	< 10	9	194	3
6841	4	3.24	95	< 10	47	< 1	< 5	3.13	4	28	38	45	6.01	1.14	1375	10	0.02	36	1442	79	20	14	< 10	58	108	193	< 10	14	186	9
6842	5	0.86	90	< 10	50	< 1	< 5	0.49	6	10	64	23	3.15	0.44	375	18	0.02	23	446	168	10	3	< 10	23	30	16	< 10	5	359	2
6843	3	0.67	105	< 10	34	< 1	< 5	4.38	12	7	34	21	4.54	0.75	1576	20	0.02	20	464	235	5	3	< 10	53	22	9	< 10	15	930	1
6844	2	1.08	100	< 10	27	< 1	< 5	0.35	3	8	19	35	3.87	0.54	287	18	0.02	34	584	36	10	4	10	9	16	22	< 10	5	207	2
6845	7	1.86	260	< 10	24	< 1	< 5	5.60	6	24	39	26	6.25	0.90	1618	12	0.03	30	1572	48	10	10	< 10	63	46	152	< 10	13	142	7
6846	6	2.64	170	< 10	21	< 1	< 5	3.41	5	29	32	35	6.97	1.02	1356	14	0.02	35	1506	119	10	12	10	52	61	180	< 10	11	310	8
6847	5	0.93	100	< 10	55	< 1	< 5	1.30	4	7	38	27	3.43	0.42	400	18	0.02	19	508	206	20	4	< 10	49	19	21	< 10	5	275	2
6848	7	1.00	105	< 10	27	< 1	< 5	2.43	2	9	18	28	3.63	0.48	630	26	0.02	31	488	87	20	4	< 10	42	17	20	< 10	10	137	2
6849	6	0.56	95	< 10	35	< 1	< 5	2.71	13	6	29	27	3.38	0.57	820	22	0.02	27	468	282	15	4	< 10	44	9	11	< 10	9	983	1
6850	3	3.81	40	< 10	78	< 1	< 5	2.50	< 1	24	30	67	6.57	1.18	1611	8	0.02	37	1542	6	5	16	< 10	45	83	233	< 10	14	188	8
6851	9	0.71	70	< 10	23	< 1	< 5	1.68	3	7	27	34	3.12	0.39	597	22	0.02	32	338	71	10	3	< 10	19	13	15	< 10	8	268	1
6852	9	1.05	95	< 10	27	< 1	< 5	0.66	2	11	18	33	3.17	0.53	442	20	0.02	25	462	55	15	4	< 10	13	16	23	< 10	6	125	2
6853	10	1.12	115	< 10	28	< 1	< 5	0.17	2	7	21	28	3.38	0.55	263	18	0.02	19	416	61	10	3	< 10	5	14	16	< 10	3	93	1
6854	< 1	0.94	30	< 10	25	< 1	< 5	0.53	< 1	6	27	64	4.50	0.45	300	4	0.02	27	2800	10	< 5	4	< 10	9	4	25	< 10	25	140	3
6855	4	3.51	55	< 10	68	< 1	< 5	3.20	< 1	25	40	61	6.34	1.12	1582	6	0.02	36	1502	37	< 5	13	< 10	53	65	214	30	14	130	10
6856	4	3.57	15	< 10	83	< 1	< 5	3.24	< 1	28	38	53	6.62	1.08	1502	8	0.02	38	1546	13	< 5	13	< 10	60	55	183	< 10	14	135	8
6857	8	0.87	135	< 10	52	< 1	< 5	0.47	2	9	40	22	2.86	0.39	275	20	0.02	20	408	59	5	3	< 10	10	20	21	< 10	4	113	< 1
6858	10	1.09	130	< 10	48	< 1	< 5	0.17	2	5	19	27	3.32	0.44	234	14	0.02	14	446	64	15	3	< 10	6	17	19	< 10	3	66	1
6859	2	0.24	30	< 10	28	< 1	10	21.39	7	4	31	16	1.54	0.21	2089	8	0.02	13	396	26	< 5	6	< 10	1034	< 1	5	< 10	37	283	3
6860	2	0.44	380	< 10	83	< 1	< 5	0.40	8	7	13	35	4.57	0.15	206	22	0.03	31	656	82	5	6	< 10	23	7	12	< 10	5	342	3
6861	2	0.57	80	< 10	43	< 1	< 5	2.04	4	9	20	46	3.88	0.34	495	14	0.02	33	520	47	< 5	7	< 10	34	7	12	< 10	9	309	3
6862	2	0.65	65	< 10	59	< 1	< 5	0.69	2	8	15	31	3.75	0.25	296	12	0.02	25	560	35	< 5	6	< 10	16	9	12	< 10	6	142	3
6863	2	0.50	70	< 10	92	< 1	< 5	0.62	2	5	21	23	3.33	0.13	225	16	0.02	24	544	31	< 5	5	< 10	17	9	10	< 10	8	161	3

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED : Bernie Dunn

TSL/92

I ora res :L/ AYE Lat ito: s
780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
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PRIME EXP. ATIONS
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REPORT No. : T19
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File No. : SE22MA
Date : OCT-07-1992

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
6864	2	0.74	75	< 10	40	< 1	< 5	0.56	3	7	18	29	3.20	0.29	208	12	0.02	25	466	38	< 5	5	< 10	11	9	19	< 10	5	161	2
6865	2	0.62	65	< 10	60	< 1	< 5	1.61	2	5	26	20	2.49	0.26	312	10	0.02	26	402	25	< 5	3	< 10	23	6	10	< 10	7	175	2
6866	2	0.91	65	< 10	66	< 1	< 5	2.57	2	8	24	24	2.79	0.39	477	8	0.03	25	610	18	< 5	5	< 10	34	9	20	< 10	8	108	3
6867	2	0.64	65	< 10	33	< 1	< 5	3.54	2	9	18	33	3.80	0.50	510	22	0.02	35	718	29	< 5	5	< 10	56	6	15	< 10	10	154	3
6868	2	0.54	70	< 10	38	< 1	< 5	2.11	7	8	12	35	3.42	0.34	352	14	0.02	34	516	51	< 5	5	< 10	38	6	13	< 10	9	406	3
6869	2	0.95	75	< 10	32	< 1	< 5	3.08	2	11	25	37	4.10	0.57	507	28	0.03	37	548	17	< 5	6	< 10	50	9	27	< 10	9	199	3
6870	2	1.07	60	< 10	46	< 1	< 5	3.23	3	7	19	28	3.23	0.67	489	12	0.02	26	530	14	10	5	< 10	58	8	20	< 10	9	246	3
6871	2	0.94	55	< 10	70	< 1	< 5	4.85	3	9	19	26	3.95	0.86	927	10	0.02	28	646	19	< 5	6	< 10	139	5	24	< 10	11	189	3
6872	1	0.31	50	< 10	80	< 1	< 5	2.88	2	4	15	18	2.38	0.46	485	8	0.02	20	368	19	10	3	< 10	77	3	8	< 10	7	220	< 1
6873	2	1.77	30	< 10	57	< 1	< 5	4.16	1	11	32	27	3.73	0.77	793	10	0.02	22	1076	11	< 5	5	< 10	132	12	39	< 10	9	164	2
6874	2	0.92	30	< 10	26	< 1	< 5	1.43	3	7	16	23	2.76	0.60	400	10	0.02	29	366	17	< 5	3	< 10	24	37	23	< 10	6	293	2
6875	2	0.85	40	< 10	41	< 1	< 5	0.45	1	6	20	27	2.99	0.44	278	14	0.02	28	498	19	< 5	4	< 10	11	22	18	< 10	6	152	3
6876	2	1.07	35	< 10	45	< 1	< 5	1.53	1	4	11	12	2.41	0.64	470	4	0.02	10	460	15	< 5	3	< 10	23	13	10	< 10	8	115	1
6877	2	1.48	30	< 10	81	< 1	< 5	2.15	< 1	9	24	38	3.44	0.55	503	10	0.02	22	878	16	< 5	5	< 10	38	20	32	< 10	8	142	4
6878	2	1.24	20	< 10	69	< 1	< 5	1.31	2	6	13	31	3.34	0.49	318	12	0.02	23	566	14	< 5	4	< 10	23	13	18	< 10	7	182	3
6879	2	1.23	25	< 10	43	< 1	< 5	2.56	2	8	15	38	3.90	0.49	443	20	0.02	31	660	15	< 5	5	< 10	44	16	22	< 10	11	254	3
19336	3	1.54	85	< 10	12	1	< 5	0.27	< 1	5	14	16	7.59	0.62	760	18	0.03	4	736	18	< 5	3	10	7	17	< 1	< 10	9	114	4
19337	2	0.97	100	< 10	10	1	< 5	0.15	3	4	16	14	6.76	0.40	596	20	0.02	4	320	41	< 5	3	20	6	10	< 1	< 10	4	150	3
19338	2	0.74	50	< 10	17	1	< 5	0.22	< 1	4	26	16	4.17	0.31	437	18	0.04	4	482	33	5	1	< 10	10	8	< 1	< 10	10	131	1
19339	2	0.62	50	< 10	22	1	< 5	0.18	1	5	22	12	3.87	0.25	495	20	0.03	6	268	26	< 5	1	10	12	6	< 1	< 10	6	151	1
19340	2	0.35	50	< 10	39	1	< 5	9.08	1	4	20	16	3.22	0.39	1272	16	0.03	15	1354	16	< 5	3	< 10	225	2	3	< 10	21	175	4
19341	3	0.50	50	< 10	13	< 1	< 5	3.43	< 1	9	28	72	4.24	0.41	675	10	0.02	35	938	14	< 5	5	10	83	4	18	< 10	13	192	3
19342	4	1.01	60	< 10	18	< 1	< 5	1.35	< 1	8	34	68	4.21	0.44	372	10	0.02	38	3724	13	< 5	5	10	33	7	24	< 10	30	173	3
19343	3	0.54	40	< 10	16	< 1	< 5	1.71	< 1	10	36	53	4.11	0.41	670	8	0.02	33	412	9	< 5	5	10	50	4	19	< 10	10	278	2
19344	3	0.62	85	< 10	21	< 1	< 5	0.26	3	9	21	70	4.23	0.16	777	10	0.02	37	810	11	< 5	5	< 10	11	9	14	< 10	11	405	2
TR-TP-12-1																														
19345	3	0.67	80	< 10	19	< 1	< 5	1.28	2	6	25	65	3.80	0.34	451	8	0.02	34	430	10	< 5	5	< 10	28	5	14	< 10	6	247	2
19346	3	0.78	65	< 10	23	< 1	< 5	0.22	< 1	6	34	70	4.03	0.28	337	10	0.03	30	414	11	< 5	6	< 10	9	6	30	< 10	4	193	2
19347	2	0.41	55	< 10	16	< 1	< 5	0.15	1	8	13	62	4.29	0.06	307	8	0.02	31	386	13	< 5	5	< 10	8	3	11	< 10	5	251	2
19348	3	0.47	80	< 10	22	< 1	< 5	1.23	2	8	19	54	4.29	0.31	437	10	0.03	27	1786	9	< 5	5	10	44	4	14	< 10	19	228	2
19349	5	0.43	80	< 10	10	< 1	< 5	1.50	3	9	39	78	5.52	0.35	804	12	0.03	44	1116	10	< 5	6	20	36	4	18	< 10	15	456	4
19350	3	0.37	40	< 10	17	< 1	< 5	2.12	< 1	7	25	48	3.92	0.49	656	8	0.02	35	1560	9	< 5	6	10	65	4	22	< 10	20	286	2
19360	3	0.35	50	< 10	51	< 1		510.40	2	5	35	20	3.36	0.37	1336	26	0.04	15	2224	18	< 5	4	10	232	17	11	< 10	28	183	5
19361	3	0.97	135	10	31	1	< 5	2.90	4	3	32	615	4.00	0.15	227	22	0.05	16	>9999	38	< 5	5	10	56	21	21	< 10	45	455	6
19362 TR-TP-12-2	2	0.92	95	< 10	50	< 1	< 5	0.49	2	3	21	405	5.07	0.16	212	20	0.04	8	1550	25	< 5	2	< 10	15	11	6	< 10	14	308	2
19363	2	0.58	90	< 10	105	< 1	< 5	0.17	2	2	17	67	5.26	0.04	169	14	0.03	9	732	16	< 5	2	< 10	9	8	4	< 10	13	159	< 1

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED : Ronnie Dunn

'SL/92

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PRIME EXPLORATIONS
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REPORT No. : T195
Page No. : 4 of 5
File No. : SE22MA
Date : OCT-07-1992

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
19364	2	0.37	55	< 10	94	< 1	< 5	0.09	1	1	17	385	3.30	0.04	58	10	0.02	4	284	14	< 5	2	< 10	7	7	10	< 10	4	239	< 1
19365	3	0.55	45	< 10	41	< 1	< 5	0.09	< 1	2	20	71	2.91	0.13	160	10	0.02	10	328	13	< 5	3	< 10	5	7	7	< 10	4	77	< 1
19366	3	0.48	40	< 10	25	< 1	< 5	0.07	2	1	36	71	3.67	0.17	85	10	0.02	8	344	13	< 5	4	< 10	5	10	19	< 10	2	60	1
19367	2	0.74	35	< 10	24	< 1	< 5	0.05	< 1	3	42	61	4.05	0.27	141	12	0.02	11	406	14	< 5	6	< 10	4	8	24	< 10	3	66	3
19368	4	0.54	35	< 10	101	< 1	< 5	0.07	< 1	2	23	31	2.77	0.11	46	8	0.03	6	562	14	< 5	4	< 10	10	6	16	< 10	5	84	1
19369	3	0.53	40	< 10	64	< 1	< 5	0.05	< 1	2	40	37	2.36	0.15	70	6	0.02	11	396	14	< 5	6	< 10	5	8	21	< 10	5	116	2
19370	2	0.67	30	< 10	30	< 1	< 5	0.05	< 1	2	29	46	2.76	0.30	126	6	0.02	12	242	11	< 5	7	< 10	3	8	21	< 10	2	91	2
19371	2	0.68	30	< 10	16	< 1	< 5	0.09	< 1	4	26	53	3.66	0.28	164	8	0.02	18	502	12	< 5	6	< 10	3	7	14	< 10	4	98	2
19372	4	0.47	30	< 10	49	< 1	< 5	0.11	< 1	< 1	25	22	2.04	0.15	64	8	0.02	7	284	10	< 5	3	< 10	7	5	11	< 10	2	45	2
19373	3	0.96	30	< 10	12	< 1	< 5	0.05	< 1	7	33	60	4.62	0.42	263	10	0.02	25	256	12	< 5	6	20	3	7	26	< 10	2	72	2
19374	3	0.77	40	< 10	17	< 1	< 5	0.23	< 1	4	36	48	3.48	0.33	201	8	0.02	23	832	11	< 5	6	< 10	7	7	24	< 10	8	141	3
19375	3	1.05	55	< 10	14	< 1	< 5	0.16	< 1	5	45	60	3.99	0.49	301	10	0.02	24	670	9	< 5	6	< 10	5	7	34	< 10	6	64	2
19376	3	0.86	45	< 10	9	< 1	< 5	0.08	< 1	8	42	84	4.51	0.41	379	10	0.02	40	314	10	< 5	5	20	4	7	22	< 10	4	58	2
19377	3	0.98	40	< 10	13	< 1	< 5	0.80	< 1	8	42	74	4.35	0.39	371	8	0.02	34	2978	10	< 5	7	10	20	9	28	< 10	31	98	4
19378	3	0.90	65	< 10	9	< 1	< 5	0.37	2	7	46	94	4.91	0.43	395	10	0.02	44	1434	9	< 5	6	10	9	6	35	< 10	12	103	3
19379	3	1.09	50	< 10	26	< 1	< 5	0.67	< 1	7	80	60	4.07	0.36	338	8	0.03	53	2512	11	< 5	6	10	21	47	40	< 10	20	175	2
19380	4	1.22	50	< 10	20	< 1	< 5	0.22	2	8	52	61	4.26	0.44	319	10	0.03	35	654	22	< 5	6	10	12	16	38	< 10	9	237	2
19381 TR-TR-92-2	3	1.44	60	< 10	24	< 1	< 5	1.14	< 1	7	68	71	4.33	0.55	388	8	0.03	41	3946	19	< 5	8	10	38	19	65	< 10	34	189	4
19382	3	0.89	50	< 10	59	< 1	< 5	10.63	1	5	34	38	2.77	0.43	2810	6	0.03	22	4646	7	< 5	5	< 10	166	6	43	< 10	14	230	2
19383	5	1.22	45	< 10	31	< 1	< 5	1.10	2	4	49	65	3.50	0.30	210	12	0.03	26	3102	13	< 5	6	< 10	35	7	56	< 10	24	183	3
19384	4	0.99	80	< 10	15	< 1	< 5	0.34	3	9	30	82	4.96	0.29	361	16	0.03	33	740	12	< 5	8	20	11	6	46	< 10	7	146	5
19385	5	0.39	90	< 10	14	< 1	< 5	0.22	5	6	48	62	3.39	0.09	321	10	0.02	34	480	7	< 5	6	< 10	13	5	48	< 10	11	344	2
19386	4	0.42	90	< 10	153	< 1	< 5	0.18	6	3	34	54	4.67	0.05	391	22	0.02	22	502	10	< 5	6	< 10	19	3	63	< 10	7	382	2
19387	5	0.90	60	< 10	305	< 1	< 5	2.38	3	2	55	43	3.92	0.05	70	10	0.03	13	9782	9	< 5	7	< 10	85	5	93	< 10	38	238	4
19388	3	0.51	50	< 10	159	< 1	< 5	0.18	< 1	2	21	39	4.27	0.07	97	8	0.02	12	574	9	< 5	5	< 10	13	4	29	< 10	3	217	< 1
19389	3	0.45	40	< 10	203	< 1	< 5	0.15	2	2	23	24	3.67	0.04	79	8	0.02	10	768	9	< 5	4	< 10	16	2	35	< 10	3	185	1
19390	4	0.51	75	< 10	148	< 1	< 5	0.10	2	< 1	18	9	1.64	0.04	28	8	0.03	11	424	13	< 5	3	< 10	10	3	30	< 10	2	186	< 1
19391	5	0.53	70	< 10	106	< 1	< 5	0.04	2	< 1	33	12	1.65	0.03	17	18	0.03	5	222	12	< 5	3	< 10	7	2	28	< 10	3	88	< 1
19392	5	0.86	65	< 10	154	< 1	< 5	0.56	2	1	36	29	2.70	0.05	77	16	0.03	11	2662	13	< 5	7	< 10	26	3	81	< 10	25	228	4
19393	4	0.40	50	< 10	31	< 1	< 5	0.04	2	5	28	48	4.98	0.01	260	32	0.03	18	364	14	5	5	< 10	7	3	30	< 10	5	454	2
19394	5	0.72	60	< 10	43	< 1	< 5	0.10	9	9	27	67	5.00	0.09	379	28	0.03	55	622	11	< 5	7	< 10	14	3	89	< 10	11	940	4
19395	2	0.95	35	< 10	136	< 1	< 5	0.66	< 1	2	16	13	3.99	0.12	79	12	0.04	3	3990	22	< 5	4	< 10	22	12	16	< 10	21	78	2
19396	2	1.03	30	< 10	161	< 1	< 5	0.05	< 1	2	10	10	3.46	0.17	97	14	0.03	4	462	17	< 5	4	< 10	6	5	7	< 10	5	86	2
19397 TR-TR-92-3	2	1.20	60	< 10	160	< 1	< 5	2.20	< 1	2	28	23	3.13	0.12	71	10	0.03	5	8696	11	< 5	7	< 10	48	13	41	< 10	30	102	3
19398	3	0.53	65	< 10	144	< 1	< 5	0.08	< 1	2	13	15	1.97	0.02	47	8	0.02	10	278	11	< 5	4	< 10	5	3	22	< 10	3	151	< 1

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED : Bernie Ouellette

rSL/92

J ora res SL/ AYE Lab to s
780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

PRIME EXP RATIONS
VANCOUVER B.C.
S4796
ATTN: P. LOUGHEED
PROJ: TTUTC

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

REPORT No. : T19.
Page No. : 5 of 5
File No. : SE22MA
Date : OCT-07-1992

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
19399	2	0.58	85	< 10	130	< 1	< 5	0.10	1	2	30	19	2.06	0.04	43	6	0.03	8	470	11	< 5	4	< 10	6	17	23	< 10	4	95	1
19400 TR-TR-92-3	3	0.40	60	< 10	72	< 1	< 5	0.04	< 1	4	17	39	2.84	0.05	102	8	0.02	10	236	10	< 5	6	< 10	5	21	32	< 10	3	89	2

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED : Denise Quinn

TSL/92

Laboratoires TSL/MSAYE Laboratories
780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
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PRIME EXPLORATION
VANCOUVER B.C.
S4798
ATTN:P.LOUGHEED
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REPORT No. : T20
Page No. : 1 of 2
File No. : SE23MA
Date : OCT-03-1992

OCT 9 REC'D

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
04522	2	0.42	80	< 10	70	< 1	< 5	0.14	2	3	73	17	2.5	0.10	41	< 2	0.11	4	790	11	40	5	< 10	19	55	17	< 10	6	37	3
04523	2	0.70	240	< 10	65	< 1	< 5	0.08	8	5	37	16	3.1	0.17	55	12	0.05	8	440	16	30	2	< 10	7	18	8	< 10	9	140	2
04524	2	1.0	460	< 10	44	< 1	< 5	0.15	14	3	24	16	3.5	0.28	150	30	0.04	10	590	14	40	4	< 10	9	13	13	< 10	15	100	1
04525	2	1.0	410	< 10	40	< 1	< 5	0.19	13	4	22	13	3.6	0.31	180	28	0.04	15	510	12	70	4	< 10	11	11	12	< 10	16	180	< 1
04526	2	1.4	230	< 10	150	< 1	< 5	0.07	6	2	15	17	3.4	0.15	90	4	0.04	6	560	14	60	5	< 10	13	7	12	< 10	9	95	2
04527	2	1.5	150	< 10	50	< 1	< 5	0.08	4	3	13	17	5.0	0.26	180	< 2	0.04	20	660	12	70	6	< 10	23	7	15	< 10	11	100	2
04528	1	1.3	90	< 10	140	< 1	< 5	0.03	3	5	12	22	4.4	0.19	300	< 2	0.03	14	260	6	35	7	< 10	34	6	25	< 10	7	140	1
04529	1	1.4	120	< 10	210	< 1	< 5	0.04	4	4	10	18	3.9	0.17	170	< 2	0.03	13	420	10	30	6	< 10	24	4	12	< 10	7	180	1
04530	1	1.8	80	< 10	56	< 1	< 5	0.08	12	4	9	24	4.0	0.44	160	< 2	0.03	13	340	7	15	6	10	28	6	17	< 10	5	160	1
04531	1	1.8	110	< 10	250	< 1	< 5	0.04	4	3	13	21	4.7	0.34	110	< 2	0.03	10	490	8	10	6	< 10	19	6	21	< 10	4	180	1
04532 TR-VR-5-2	2	2.0	40	< 10	370	< 1	< 5	0.06	1	4	13	21	4.4	0.41	160	4	0.03	13	480	8	5	6	< 10	19	8	22	< 10	5	180	2
04533	1	2.1	30	< 10	320	< 1	< 5	0.04	< 1	4	13	22	4.8	0.41	170	4	0.03	11	460	6	< 5	7	< 10	15	11	23	< 10	5	200	2
04534	1	2.0	15	< 10	230	< 1	< 5	0.04	1	2	16	23	4.5	0.38	120	4	0.03	5	460	9	5	6	< 10	8	8	29	< 10	5	110	1
04535	1	2.2	20	< 10	97	< 1	< 5	0.03	< 1	4	15	29	4.9	0.50	220	4	0.03	11	470	5	< 5	9	< 10	8	8	43	< 10	5	95	3
04536	2	2.5	15	< 10	500	< 1	< 5	0.03	< 1	5	17	23	5.0	0.51	320	4	0.03	12	540	5	< 5	9	< 10	10	6	36	< 10	6	130	3
04537	2	2.4	15	< 10	530	< 1	< 5	0.03	< 1	5	19	27	4.8	0.52	290	2	0.03	12	590	6	< 5	8	< 10	10	6	32	< 10	7	120	3
04538	< 1	2.2	20	< 10	260	< 1	< 5	0.07	2	5	18	32	4.3	0.53	350	6	0.03	19	620	7	10	8	< 10	16	6	42	< 10	13	110	4
04539	1	2.0	15	< 10	250	< 1	< 5	0.09	< 1	8	25	42	4.8	0.37	600	4	0.03	38	500	7	15	10	< 10	23	5	33	< 10	25	200	4
04613	2	1.3	110	< 10	98	< 1	15	0.04	5	4	16	18	11	0.33	140	< 2	0.05	< 1	4500	9	5	4	< 10	150	65	59	< 10	5	47	8
04614 TG CL #9	< 1	0.62	25	< 10	52	< 1	< 5	0.03	< 1	5	14	6	3.4	0.12	59	< 2	0.03	2	480	10	5	2	< 10	14	12	15	< 10	3	19	< 1
04615	1	0.46	60	< 10	56	< 1	< 5	0.06	< 1	3	28	5	5.4	0.06	37	< 2	0.03	2	970	8	< 5	2	< 10	27	120	34	< 10	4	66	1
04616 LCS ppb?	2	3.2	130	< 10	130	1	5	0.79	9	38	34	64	7.1	0.79	2500	< 2	0.03	54	1400	8	10	10	< 10	36	1000	110	10	54	360	8
04617	2	4.1	25	< 10	76	< 1	< 5	0.42	5	50	54	49	7.0	0.95	2300	< 2	0.03	47	1500	< 1	15	13	< 10	7	970	160	< 10	22	310	7
04618	1	4.7	< 5	< 10	49	1	55	0.15	< 1	23	29	22	14	0.92	1100	< 2	0.02	6	640	< 1	< 5	12	< 10	< 1	940	110	< 10	19	270	19
04619 TG Grid N of L 11+12W	2	0.95	60	< 10	190	< 1	15	5.8	2	20	33	38	4.8	0.66	890	< 2	0.02	47	1400	5	< 5	13	< 10	300	20	75	< 10	15	96	5
04620	2	1.0	30	< 10	420	< 1	10	6.6	< 1	18	35	36	5.1	0.83	930	< 2	0.03	45	1300	< 1	< 5	14	< 10	300	12	88	< 10	15	94	6
04621	2	1.0	15	< 10	900	< 1	10	6.1	< 1	19	46	36	4.8	0.80	1000	< 2	0.03	47	1600	< 1	< 5	17	< 10	320	16	98	< 10	15	78	7
04622	1	1.5	25	< 10	570	< 1	< 5	0.40	< 1	4	14	24	4.4	0.32	200	2	0.03	14	510	6	< 5	7	< 10	34	6	32	< 10	11	120	2
04623	1	1.6	15	< 10	860	< 1	< 5	0.37	< 1	6	18	34	4.9	0.34	340	6	0.03	28	820	4	< 5	9	< 10	51	7	35	< 10	23	140	2
04624 TR-VR-5-1	1	1.7	20	< 10	1000	< 1	< 5	0.15	< 1	8	16	30	4.8	0.34	340	2	0.03	19	730	6	< 5	9	< 10	54	7	28	< 10	23	96	3
04625	1	1.1	15	< 10	340	< 1	< 5	0.09	< 1	5	9	23	4.2	1.0	180	6	0.03	9	610	16	< 5	8	< 10	14	4	21	< 10	14	87	2
04626	2	0.82	25	< 10	860	< 1	< 5	0.14	2	6	14	24	5.0	0.08	290	4	0.03	31	360	7	5	8	< 10	76	16	37	< 10	13	180	3
04627	2	0.55	20	< 10	270	< 1	5	0.03	< 1	< 1	7	3	0.86	0.05	36	< 2	0.03	2	310	63	5	1	< 10	21	9	9	< 10	2	47	< 1
04628 TR-92-6B	2	0.49	50	< 10	40	< 1	5	0.02	< 1	4	10	8	2.8	0.04	20	< 2	0.03	< 1	1300	22	< 5	3	< 10	5	8	9	< 10	2	17	2
04629	2	0.23	25	< 10	17	< 1	< 5	0.02	< 1	6	15	26	4.5	0.02	20	< 2	0.02	< 1	380	11	5	< 1	20	5	9	3	< 10	1	20	< 1

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED : Bernie Dunn

TSL/92

Laboratoires TSL/ASSAYERS Laboratories
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PRIME EXPLORATION
VANCOUVER B.C.
S4798
ATTN:P.LOUGHEED
PROJ.:TTUTC

REPORT No. : T2042
Page No. : 2 of 2
File No. : SE23MA
Date : OCT-03-1992

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
04630	2	0.85	25	< 10	540	< 1	15	8.4	1	15	31	28	4.0	0.86	880	< 2	0.02	38	990	3	10	10	< 10	430	30	69	< 10	12	86	4
04631	3	1.5	140	< 10	38	< 1	< 5	3.5	3	9	14	11	5.0	0.50	2200	< 2	0.02	< 1	980	27	< 5	2	20	53	4	16	< 10	9	150	< 1
04632	6	1.9	210	< 10	34	< 1	< 5	3.7	6	13	11	81	4.6	0.58	2900	< 2	0.02	< 1	1100	230	15	3	< 10	53	3	19	< 10	10	450	< 1
04633	4	1.3	450	< 10	25	< 1	< 5	4.1	16	10	15	10	4.5	0.45	3100	< 2	0.02	< 1	920	200	< 5	2	10	50	3	11	< 10	10	470	< 1
04634	4	1.3	290	< 10	29	< 1	< 5	2.2	8	10	11	6	4.4	0.46	2000	< 2	0.02	< 1	1100	260	< 5	2	20	33	5	14	< 10	8	310	< 1
04635	9	1.4	320	< 10	18	< 1	< 5	1.4	9	13	14	17	4.7	0.51	1500	< 2	0.02	< 1	1000	660	10	2	20	18	5	14	< 10	7	440	< 1
04636	12	0.58	210	< 10	8	< 1	< 5	2.6	8	11	23	68	4.7	0.19	680	< 2	0.02	< 1	880	300	15	1	30	100	< 1	6	< 10	5	320	< 1
04637	5	1.5	240	< 10	15	< 1	< 5	2.7	7	13	14	26	4.7	0.59	2800	< 2	0.02	< 1	1000	390	10	2	20	43	1	14	< 10	9	460	< 1
04638	4	1.3	170	< 10	19	< 1	< 5	2.8	5	10	13	24	4.0	0.48	2600	< 2	0.02	< 1	1000	200	10	2	10	46	2	13	< 10	11	320	< 1
04639	3	1.4	130	< 10	23	< 1	< 5	1.7	3	14	10	34	3.9	0.51	2000	< 2	0.03	< 1	1100	130	5	2	10	27	2	15	< 10	8	300	< 1
04640	3	1.7	200	< 10	30	< 1	< 5	1.9	5	11	10	45	4.5	0.58	2400	< 2	0.03	< 1	1100	81	10	2	10	33	3	18	< 10	8	240	< 1
5159	1	1.5	50	< 10	120	< 1	< 5	0.11	1	5	13	19	4.5	0.35	250	12	0.02	27	630	14	5	4	< 10	9	8	34	< 10	5	140	< 1
5160	1	1.4	40	< 10	96	< 1	< 5	0.07	< 1	6	12	21	4.4	0.34	230	8	0.02	22	610	12	10	5	< 10	8	13	32	< 10	5	130	1
5161	2	1.3	45	< 10	92	< 1	< 5	0.03	< 1	6	12	27	4.3	0.28	170	14	0.02	32	540	12	5	4	< 10	9	9	30	< 10	5	150	< 1
5162	2	1.6	35	< 10	84	< 1	< 5	0.03	< 1	5	15	35	5.2	0.36	160	10	0.02	23	580	11	10	5	< 10	2	8	35	< 10	5	140	< 1
5163	2	1.8	25	< 10	86	< 1	< 5	0.30	1	6	18	39	5.2	0.39	280	6	0.02	24	1500	13	< 5	5	< 10	9	9	38	< 10	10	170	2
5164	1	1.7	25	< 10	65	< 1	< 5	0.05	1	7	14	42	5.4	0.39	300	8	0.02	25	640	11	5	6	< 10	1	9	33	< 10	7	150	1
5165	< 1	1.7	20	< 10	61	< 1	< 5	0.03	< 1	4	13	41	4.7	0.42	200	4	0.02	10	450	10	5	5	< 10	< 1	6	26	< 10	5	110	< 1
5166	1	1.7	25	< 10	72	< 1	< 5	0.03	< 1	4	13	28	5.1	0.36	170	< 2	0.02	7	430	11	10	5	< 10	3	6	25	< 10	4	110	< 1
5167	2	1.0	40	< 10	94	< 1	< 5	0.06	< 1	8	13	54	5.2	0.15	280	< 2	0.03	14	530	13	< 5	6	< 10	3	5	32	< 10	5	130	1
5168	1	0.74	60	< 10	68	< 1	< 5	0.03	< 1	7	11	50	5.8	0.11	270	< 2	0.02	12	630	11	< 5	7	< 10	< 1	5	30	< 10	4	88	1
5169	1	1.8	40	< 10	67	< 1	< 5	0.09	< 1	6	16	43	5.0	0.45	160	2	0.02	14	580	10	15	6	< 10	3	9	35	< 10	4	120	1
5170	1	1.7	45	< 10	140	< 1	< 5	0.13	< 1	5	15	37	4.7	0.37	140	4	0.02	12	510	14	15	5	< 10	9	11	35	< 10	6	180	1
5171	2	1.8	50	< 10	120	< 1	< 5	0.18	1	2	16	44	4.4	0.43	150	< 2	0.02	3	520	17	15	6	< 10	11	21	35	< 10	4	91	2

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED : Bernie Dunn

TSL/92

PRIME EXPL..RATIONS LTD
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PHONE #: 819-797-4653 FAX #: 819-797-4501

REPORT No. : T20?
Page No. : 1 of 3
File No. : OC06MA
Date : OCT-07-1992

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
04540	< 1	1.9	25	< 10	66	< 1	< 5	0.14	< 1	5	18	36	4.5	0.92	350	6	0.03	23	590	8	< 5	6	< 10	16	4	35	< 10	14	100	5
04541	< 1	1.9	15	< 10	40	< 1	< 5	0.12	< 1	7	19	40	5.2	0.95	950	14	0.02	29	630	6	< 5	8	< 10	15	4	43	< 10	18	160	5
04542	< 1	1.8	30	< 10	82	< 1	< 5	0.07	< 1	9	18	40	5.3	0.72	610	10	0.02	36	500	8	< 5	7	< 10	11	2	47	< 10	14	210	7
04543	< 1	1.3	25	< 10	110	< 1	< 5	0.07	< 1	5	13	26	3.9	0.47	350	8	0.02	21	410	7	< 5	5	< 10	13	1	25	< 10	10	120	4
04544	< 1	1.4	230	< 10	20	< 1	< 5	0.18	< 1	6	11	27	5.6	0.62	280	18	0.03	39	900	13	55	5	< 10	16	3	20	< 10	20	130	3
04545 TP-VR-12-2	< 1	0.98	310	< 10	23	< 1	< 5	0.12	< 1	5	11	20	3.7	0.37	190	22	0.03	13	690	14	35	4	< 10	11	3	13	< 10	18	120	2
04546	< 1	1.1	1400	< 10	17	< 1	5	0.10	< 1	5	12	21	4.8	0.38	170	210	0.03	14	670	16	65	4	< 10	12	3	13	< 10	19	150	4
04547	< 1	1.0	440	< 10	23	< 1	< 5	0.11	< 1	4	21	15	3.7	0.30	110	52	0.04	13	690	15	60	3	< 10	11	3	11	< 10	15	99	3
04548	< 1	0.86	540	< 10	20	< 1	< 5	0.10	< 1	3	21	14	3.7	0.28	110	66	0.04	14	600	13	65	3	< 10	11	3	10	< 10	14	110	2
04549	< 1	0.95	340	< 10	27	< 1	< 5	0.12	< 1	3	20	15	3.7	0.39	140	54	0.04	14	620	11	65	3	< 10	16	4	13	< 10	16	85	3
04550	< 1	1.1	290	< 10	19	< 1	< 5	0.10	< 1	5	16	20	3.9	0.45	170	30	0.03	14	600	12	50	4	< 10	11	25	19	< 10	18	94	3
04551	< 1	3.1	35	< 10	180	< 1	10	3.2	< 1	24	190	24	4.8	2.2	1200	< 2	0.02	120	1300	11	< 5	13	< 10	57	12	140	< 10	16	96	7
04552	< 1	1.7	25	< 10	200	< 1	10	6.6	< 1	16	110	32	4.5	2.1	1200	< 2	0.02	79	1000	10	< 5	11	< 10	260	4	91	< 10	15	72	6
04553	< 1	2.0	60	< 10	130	< 1	< 5	5.4	< 1	21	120	31	4.2	2.0	1100	< 2	0.03	110	1200	2	< 5	11	< 10	140	38	97	< 10	14	72	7
04554	< 1	0.79	150	< 10	210	< 1	< 5	3.8	< 1	23	91	31	4.4	1.9	1000	< 2	0.03	110	1300	25	< 5	11	< 10	250	2	84	< 10	15	94	6
04555	< 1	0.90	70	< 10	160	< 1	< 5	6.5	< 1	18	69	31	4.5	2.1	1200	< 2	0.02	90	1100	13	< 5	9	< 10	450	< 1	66	< 10	13	85	6
04556	< 1	1.4	50	< 10	130	< 1	< 5	6.2	< 1	18	100	29	4.3	2.0	1400	< 2	0.02	96	1100	3	10	8	< 10	220	< 1	85	< 10	14	60	4
04557	< 1	2.0	25	< 10	53	< 1	< 5	4.4	< 1	22	130	38	4.5	2.1	1200	< 2	0.03	110	1200	< 1	< 5	8	< 10	130	3	100	< 10	15	62	5
04558	< 1	2.8	25	< 10	98	< 1	5	3.3	< 1	22	180	42	4.6	2.1	1100	< 2	0.03	110	1300	< 1	< 5	13	< 10	79	15	130	< 10	15	63	8
04559 TP-VR-8	< 1	2.9	15	< 10	240	< 1	5	2.7	< 1	23	190	42	4.8	2.1	1100	< 2	0.03	120	1400	< 1	< 5	12	< 10	65	15	130	< 10	17	69	7
04560	< 1	2.2	10	< 10	210	< 1	10	5.9	26	17	150	34	4.5	2.1	1200	< 2	0.03	91	1100	64	< 5	10	< 10	180	15	100	< 10	16	970	6
04561	< 1	2.7	75	< 10	140	< 1	10	4.8	< 1	21	170	41	4.5	2.0	1000	< 2	0.02	110	1300	2	< 5	10	< 10	110	33	140	< 10	15	83	7
04562	< 1	2.9	30	< 10	46	< 1	10	3.6	< 1	23	190	32	4.6	2.1	930	< 2	0.02	120	1300	3	10	9	< 10	63	22	140	< 10	14	92	5
04563	< 1	3.2	55	< 10	50	< 1	< 5	2.8	< 1	23	210	31	5.0	2.2	990	< 2	0.02	120	1300	< 1	< 5	8	< 10	48	12	140	< 10	14	72	4
04564	< 1	2.4	100	< 10	51	< 1	< 5	3.9	< 1	23	170	53	4.7	2.1	950	< 2	0.02	120	1600	6	10	9	< 10	71	2	130	< 10	16	82	5
04565	< 1	2.2	160	< 10	33	< 1	10	7.4	4	20	160	26	3.9	1.9	1000	< 2	0.02	100	1200	72	< 5	8	< 10	230	< 1	110	< 10	14	280	4
04566	< 1	2.7	15	< 10	28	< 1	10	3.6	< 1	22	160	35	4.5	2.1	990	< 2	0.03	110	1400	< 1	10	13	< 10	67	26	140	< 10	17	68	8
04567	< 1	2.0	50	< 10	370	< 1	< 5	6.5	< 1	18	130	15	4.5	2.3	980	< 2	0.02	95	1100	46	5	9	< 10	330	5	90	< 10	15	120	5
04568	< 1	3.1	5	< 10	42	< 1	< 5	3.5	< 1	24	200	16	4.8	2.2	920	< 2	0.03	120	1500	< 1	< 5	14	< 10	76	18	130	< 10	17	72	7
04569	< 1	3.1	10	< 10	52	< 1	< 5	3.5	< 1	23	200	14	4.9	2.2	920	< 2	0.02	120	1300	3	< 5	12	< 10	66	28	130	< 10	16	71	8
04570	< 1	3.4	25	< 10	26	< 1	< 5	3.3	< 1	24	200	31	5.4	2.2	1400	< 2	0.02	130	1400	150	< 5	11	< 10	48	34	160	< 10	15	95	6
04571	< 1	2.0	65	< 10	51	< 1	< 5	3.6	5	17	170	140	4.0	1.8	1300	< 2	0.02	110	1400	970	< 5	9	< 10	57	13	150	< 10	13	500	4
04572	< 1	2.6	70	< 10	30	< 1	10	3.9	8	18	190	81	4.7	1.9	1300	< 2	0.02	110	1300	34	5	9	< 10	49	10	170	< 10	13	640	5
04573	< 1	1.7	90	< 10	66	< 1	10	6.5	< 1	18	110	38	4.2	2.2	1600	< 2	0.02	91	1200	45	< 5	9	< 10	420	< 1	110	< 10	13	92	5
04574	< 1	2.5	25	< 10	34	< 1	< 5	6.2	< 1	18	150	29	4.2	1.9	1700	< 2	0.02	93	1200	8	< 5	8	< 10	140	120	130	< 10	13	90	5

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED : Bernie Dunn

TSL/92

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REPORT No. : T20?_
Page No. : 2 of 3
File No. : OC06MA
Date : OCT-07-1992

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
04575	< 1	3.0	20	< 10	47	< 1	10	3.2	< 1	21	160	35	4.6	2.1	1100	< 2	0.02	97	1500	2	< 5	8	< 10	85	22	150	< 10	14	72	5
04576	< 1	3.4	10	< 10	40	< 1	10	2.6	< 1	22	190	48	5.0	2.1	1200	< 2	0.02	110	1400	< 1	< 5	10	< 10	48	29	160	< 10	14	76	6
04577	< 1	2.8	20	< 10	37	< 1	10	4.0	< 1	19	130	45	4.5	2.0	1100	< 2	0.02	84	1600	< 1	5	9	< 10	75	18	140	< 10	16	69	6
04578	< 1	3.4	45	< 10	24	< 1	5	2.6	< 1	22	150	49	5.2	2.0	970	< 2	0.02	94	1800	< 1	< 5	10	< 10	56	36	160	< 10	16	82	6
04586	< 1	4.1	25	< 10	48	< 1	10	3.6	< 1	25	30	88	7.5	2.0	1600	< 2	0.02	37	1800	< 1	< 5	19	< 10	53	39	270	< 10	16	130	12
04587	< 1	0.63	65	< 10	66	< 1	< 5	3.2	4	8	17	34	4.1	0.93	1100	8	0.02	28	570	65	< 5	5	< 10	130	3	34	< 10	11	330	3
04588	< 1	2.7	45	< 10	57	< 1	< 5	3.1	< 1	21	35	120	5.7	1.8	1300	2	0.03	30	1600	10	< 5	10	< 10	50	9	160	< 10	15	100	9
04589	< 1	2.9	10	< 10	36	< 1	5	3.2	< 1	22	180	38	4.5	2.2	990	< 2	0.03	120	1300	< 1	< 5	10	< 10	64	41	140	< 10	15	64	6
04680	< 1	1.6	270	< 10	43	< 1	5	0.30	< 1	6	13	39	4.4	0.64	210	6	0.03	12	650	10	45	6	< 10	25	4	38	< 10	9	96	4
04681	< 1	1.4	150	< 10	13	< 1	< 5	0.15	< 1	5	11	29	4.2	0.54	190	6	0.02	16	600	8	40	5	< 10	12	3	20	< 10	9	97	3
04682	< 1	1.5	190	< 10	27	< 1	< 5	0.18	< 1	4	8	27	4.6	0.53	180	2	0.02	14	820	8	45	5	< 10	20	3	19	< 10	9	100	3
04683	< 1	1.3	420	< 10	54	< 1	< 5	0.18	< 1	4	8	24	4.5	0.28	120	6	0.03	9	570	12	60	5	< 10	26	2	16	< 10	4	100	4
04684	< 1	1.3	510	< 10	40	< 1	< 5	0.13	< 1	4	5	28	4.7	0.38	110	6	0.02	9	440	8	50	5	< 10	19	2	16	< 10	4	66	4
04685	< 1	1.4	150	< 10	15	< 1	< 5	0.17	< 1	7	7	40	4.6	0.63	200	4	0.03	15	540	11	35	6	< 10	19	3	28	< 10	8	100	4
5150	< 1	1.2	30	< 10	63	< 1	< 5	0.06	< 1	3	7	31	4.0	0.37	140	10	0.02	13	370	10	< 5	3	< 10	7	4	19	< 10	4	97	2
5151	< 1	1.5	30	< 10	46	< 1	< 5	0.06	< 1	4	15	67	4.3	0.45	130	12	0.02	18	450	18	< 5	3	< 10	6	29	32	< 10	4	93	2
5152	< 1	1.5	20	< 10	47	< 1	< 5	0.04	< 1	2	15	50	3.9	0.45	100	16	0.02	9	530	18	< 5	4	< 10	3	7	33	< 10	4	84	1
5153	< 1	1.5	20	< 10	65	< 1	< 5	0.11	< 1	6	17	45	4.0	0.47	110	14	0.02	18	590	25	< 5	4	< 10	18	6	35	< 10	3	120	2
5154	< 1	1.6	20	< 10	110	< 1	< 5	0.76	< 1	4	16	32	3.6	0.75	230	< 2	0.02	6	580	13	< 5	3	< 10	21	5	18	< 10	7	56	< 1
5155	< 1	1.7	30	< 10	150	< 1	< 5	0.28	< 1	3	16	48	4.8	0.68	140	< 2	0.02	6	1400	13	< 5	4	< 10	12	7	29	< 10	9	52	2
5156	< 1	1.8	15	< 10	250	< 1	< 5	0.14	< 1	7	17	44	5.1	0.75	230	2	0.02	12	720	14	< 5	4	< 10	10	7	30	< 10	7	90	2
5157	< 1	1.7	25	< 10	120	< 1	< 5	0.15	< 1	7	18	58	4.7	0.53	160	12	0.02	31	730	17	< 5	6	< 10	19	7	44	< 10	5	170	3
5158	< 1	1.2	25	< 10	80	< 1	< 5	0.14	< 1	4	15	35	3.0	0.31	89	10	0.03	16	710	15	< 5	5	< 10	17	5	24	< 10	4	89	3
5172	< 1	0.18	50	< 10	98	< 1	< 5	0.01	< 1	< 1	35	7	1.3	0.02	27	6	0.02	2	160	34	< 5	< 1	< 10	9	120	4	< 10	< 1	74	4
5173	< 1	0.18	50	< 10	110	< 1	< 5	0.01	< 1	< 1	48	7	1.3	0.02	20	6	0.02	1	160	67	< 5	< 1	< 10	11	110	4	< 10	1	67	4
5174	< 1	0.12	45	< 10	110	< 1	< 5	0.01	< 1	< 1	37	6	1.4	0.01	17	6	0.02	1	260	50	< 5	< 1	< 10	18	220	3	< 10	< 1	51	2
5175	< 1	0.19	25	< 10	130	< 1	< 5	0.01	< 1	< 1	49	10	1.4	0.02	18	6	0.03	< 1	220	24	< 5	< 1	< 10	15	72	3	< 10	1	32	3
5176	< 1	0.39	20	< 10	73	< 1	< 5	0.19	< 1	1	32	6	1.5	0.20	140	4	0.03	1	380	18	< 5	< 1	< 10	4	610	4	< 10	3	71	6
5177	< 1	0.25	20	< 10	91	< 1	< 5	0.04	< 1	< 1	59	5	1.2	0.08	38	2	0.02	1	200	21	< 5	< 1	< 10	6	480	3	< 10	1	51	5
5178	< 1	0.36	40	< 10	120	< 1	< 5	0.06	< 1	1	39	7	2.0	0.18	68	4	0.02	5	450	130	< 5	2	< 10	14	740	15	< 10	2	59	5
5179	< 1	2.6	65	< 10	120	< 1	< 5	0.59	< 1	11	92	36	4.4	1.9	820	4	0.03	50	1900	41	< 5	8	< 10	15	1100	92	< 10	11	170	8
5180	< 1	0.52	40	< 10	410	< 1	< 5	0.03	< 1	2	38	10	2.4	0.28	110	4	0.02	5	420	91	< 5	1	< 10	13	860	16	< 10	2	84	4
5181	< 1	0.28	35	< 10	380	< 1	< 5	0.02	< 1	1	52	8	1.9	0.10	45	4	0.02	3	310	240	< 5	1	< 10	11	900	8	< 10	1	110	6
5182	< 1	2.5	30	< 10	100	< 1	< 5	1.2	< 1	18	84	33	4.6	1.8	1200	< 2	0.03	52	1600	12	< 5	7	< 10	29	890	89	< 10	12	150	8
5183	< 1	0.47	35	< 10	93	< 1	< 5	0.04	< 1	2	57	12	1.8	0.26	120	< 2	0.02	5	210	29	< 5	< 1	< 10	4	230	8	< 10	2	59	3

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

TSL/92

SIGNED : Bernice Dunn

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File No. : OCO6MA
Date : OCT-07-1992

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
5184	< 1	0.20	90	< 10	130	< 1	< 5	0.05	< 1	2	32	8	1.8	0.07	32	2	0.02	3	230	24	< 5	< 1	< 10	24	360	11	< 10	1	48	5
5185	< 1	0.17	50	< 10	150	< 1	< 5	<0.01	< 1	< 1	62	6	1.2	0.03	24	6	0.02	1	180	36	< 5	< 1	< 10	15	91	3	< 10	< 1	37	2
5186	< 1	0.28	40	< 10	100	< 1	5	0.01	< 1	< 1	31	6	1.4	0.11	41	2	0.02	< 1	240	28	< 5	< 1	< 10	9	17	3	< 10	1	43	3
5187	< 1	0.69	25	< 10	170	< 1	< 5	0.01	< 1	< 1	28	11	1.9	0.45	140	10	0.02	2	280	99	< 5	< 1	< 10	7	10	4	< 10	2	110	2
5188	< 1	0.44	15	< 10	260	< 1	< 5	0.01	< 1	< 1	25	4	1.4	0.22	70	4	0.02	< 1	250	71	< 5	< 1	< 10	12	11	3	< 10	2	46	2
5189	< 1	0.26	20	< 10	210	< 1	< 5	<0.01	< 1	< 1	52	5	1.3	0.05	24	8	0.02	< 1	180	160	< 5	< 1	< 10	12	7	3	< 10	1	49	2
5190	< 1	0.22	15	< 10	160	< 1	< 5	<0.01	< 1	< 1	31	6	1.8	0.02	16	2	0.02	< 1	290	44	< 5	< 1	< 10	21	6	3	< 10	1	37	1
5191	< 1	0.23	15	< 10	120	< 1	< 5	<0.01	< 1	< 1	32	3	0.92	0.02	11	6	0.02	< 1	200	17	< 5	< 1	< 10	15	6	< 1	< 10	1	9	< 1
6880	< 1	0.22	10	< 10	78	< 1	< 5	<0.01	< 1	< 1	26	3	0.74	0.02	8	6	0.02	< 1	120	14	< 5	< 1	< 10	4	9	1	< 10	1	9	2
6881	< 1	0.23	15	< 10	190	< 1	< 5	0.01	< 1	< 1	39	4	1.0	0.03	16	6	0.02	1	180	17	< 5	< 1	< 10	11	11	3	< 10	2	10	2
6882	< 1	0.51	45	< 10	64	< 1	< 5	0.15	< 1	2	32	11	2.5	0.27	190	< 2	0.02	6	1200	22	< 5	3	< 10	7	630	24	< 10	4	23	3
6883	< 1	0.24	25	< 10	86	< 1	< 5	0.02	< 1	< 1	26	4	1.1	0.02	25	4	0.02	< 1	210	37	< 5	< 1	< 10	3	360	2	< 10	1	12	3
6884	< 1	0.24	15	< 10	66	< 1	< 5	0.04	< 1	< 1	16	3	0.76	0.02	21	6	0.02	< 1	230	19	< 5	< 1	< 10	3	250	1	< 10	2	9	2
6885	< 1	0.25	15	< 10	47	< 1	< 5	0.05	< 1	1	25	4	0.75	0.01	35	6	0.02	1	200	17	< 5	< 1	< 10	2	250	1	< 10	1	9	4
6886	< 1	0.24	10	< 10	61	< 1	< 5	0.01	< 1	< 1	15	3	0.84	0.01	13	4	0.02	< 1	170	17	< 5	< 1	< 10	5	110	1	< 10	1	7	2
6887	< 1	0.23	15	< 10	110	< 1	< 5	<0.01	< 1	< 1	22	3	0.67	0.01	9	6	0.02	1	110	14	< 5	< 1	< 10	8	110	1	< 10	1	6	2
6888	< 1	0.23	10	< 10	100	< 1	< 5	0.01	< 1	< 1	15	5	0.91	0.01	9	6	0.02	< 1	130	12	< 5	< 1	< 10	3	160	1	< 10	1	8	4
6889	< 1	0.21	15	< 10	54	< 1	< 5	0.01	< 1	< 1	22	6	1.2	0.01	9	6	0.02	< 1	170	19	< 5	< 1	< 10	4	180	1	< 10	1	7	4
6890	< 1	0.21	15	< 10	51	< 1	< 5	0.01	< 1	< 1	16	4	1.3	0.01	14	6	0.02	< 1	220	23	< 5	< 1	< 10	4	230	2	< 10	1	5	3
6891	< 1	0.31	10	< 10	29	< 1	< 5	0.04	< 1	< 1	23	5	1.3	0.09	48	4	0.02	2	360	14	< 5	< 1	< 10	4	240	6	< 10	2	5	3
6892	< 1	0.20	10	< 10	37	< 1	< 5	0.03	< 1	1	15	5	0.80	0.05	15	6	0.01	2	130	9	< 5	< 1	< 10	5	51	4	< 10	1	11	3
6893	< 1	0.72	20	< 10	29	< 1	< 5	0.20	< 1	6	41	14	2.0	0.51	260	< 2	0.02	25	540	9	< 5	2	< 10	5	170	17	< 10	4	36	3
6894	< 1	0.72	30	< 10	54	< 1	< 5	0.13	< 1	4	31	17	2.3	0.42	280	< 2	0.02	15	870	12	< 5	2	< 10	8	260	25	< 10	5	30	2
6896	< 1	0.89	45	< 10	61	< 1	< 5	0.18	< 1	4	48	17	2.6	0.52	270	6	0.02	14	1000	17	< 5	3	< 10	8	230	42	< 10	5	41	2
6897	< 1	0.26	20	< 10	150	< 1	< 5	0.01	< 1	< 1	21	7	1.2	0.03	17	4	0.02	< 1	260	25	< 5	< 1	< 10	12	12	3	< 10	1	18	1
6898	< 1	0.27	25	< 10	200	< 1	< 5	0.01	< 1	< 1	41	9	1.3	0.02	15	4	0.03	< 1	220	26	< 5	< 1	< 10	8	29	3	< 10	1	35	3
6899	< 1	0.22	15	< 10	130	< 1	< 5	<0.01	< 1	< 1	20	7	0.97	0.01	10	4	0.02	2	190	24	< 5	< 1	< 10	6	5	1	< 10	1	23	1
6900	< 1	0.32	35	< 10	81	< 1	< 5	<0.01	< 1	1	14	9	1.7	0.01	16	2	0.02	1	280	43	< 5	< 1	< 10	7	4	3	< 10	1	76	1

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED : Bernie Dunn

TSL/92

PRIME EXP. RATIONS
VANCOUVER B.C.
S4806
ATTN:P.LOUGHEED
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780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

REPORT No. : T20?
Page No. : 1 of 2
File No. : OC06MA
Date : OCT-07-1992

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
04579	< 1	2.6	120	< 10	29	< 1	5	3.5	< 1	20	160	35	4.6	2.1	870	< 2	0.03	92	1500	< 1	< 5	10	< 10	62	78	140	< 10	14	73	7
04580	< 1	2.0	75	< 10	54	< 1	5	3.8	< 1	20	130	52	4.4	2.0	930	< 2	0.02	92	1500	6	< 5	10	< 10	120	100	120	< 10	13	77	6
04581	< 1	2.4	60	< 10	40	< 1	< 5	2.9	< 1	21	170	29	4.7	2.1	1100	< 2	0.02	110	1400	74	< 5	10	< 10	63	23	130	< 10	13	75	6
04582 TR-92-8	< 1	2.8	30	< 10	66	< 1	5	3.1	< 1	19	170	39	4.3	2.2	1200	< 2	0.02	96	1500	22	< 5	8	< 10	51	570	140	< 10	12	70	6
04583	< 1	2.6	65	< 10	52	< 1	< 5	2.5	< 1	21	180	40	4.5	2.2	1200	< 2	0.02	110	1400	8	< 5	10	< 10	74	140	130	< 10	13	75	6
04584	< 1	3.1	35	< 10	32	< 1	< 5	3.4	< 1	20	190	210	4.3	2.3	1300	< 2	0.02	100	1500	2	< 5	10	< 10	45	320	150	< 10	14	78	7
04585	< 1	2.6	65	< 10	57	< 1	< 5	2.3	18	19	190	210	3.9	2.1	1200	< 2	0.02	99	1400	440	< 5	8	< 10	38	93	140	< 10	12	1600	4
04590	< 1	2.7	15	< 10	170	< 1	< 5	1.5	< 1	23	95	38	4.7	2.1	700	< 2	0.03	120	1500	7	< 5	4	< 10	20	1300	120	< 10	14	78	5
04591	< 1	2.5	35	< 10	170	< 1	< 5	1.2	< 1	23	160	28	4.7	2.2	730	< 2	0.03	120	1600	12	< 5	7	< 10	28	1300	110	< 10	14	110	6
04592	< 1	2.4	60	< 10	43	< 1	< 5	0.93	< 1	20	160	31	5.8	2.1	620	2	0.03	110	1400	7	< 5	6	< 10	14	1400	110	< 10	12	64	10
04593	< 1	2.4	10	< 10	61	< 1	< 5	1.2	< 1	21	130	38	4.9	2.2	750	< 2	0.03	93	1600	6	< 5	7	< 10	20	1300	120	< 10	14	81	7
04594	< 1	2.5	25	< 10	63	< 1	< 5	0.89	< 1	23	130	40	4.6	2.2	770	< 2	0.03	120	1500	< 1	< 5	5	< 10	14	1300	110	< 10	14	75	6
04595 TR-92-10	< 1	2.9	30	< 10	57	< 1	< 5	1.4	< 1	24	210	43	4.9	2.3	840	< 2	0.03	130	1600	2	< 5	6	< 10	20	1200	130	< 10	15	82	6
04596	< 1	2.9	35	< 10	150	< 1	< 5	1.2	< 1	23	240	30	5.0	2.3	960	< 2	0.03	130	1600	3	< 5	9	< 10	20	1300	140	< 10	15	82	8
04597	< 1	2.9	35	< 10	77	< 1	< 5	1.0	< 1	24	250	36	4.8	2.3	950	< 2	0.03	130	1500	7	< 5	7	< 10	18	1200	130	< 10	14	82	8
04598	< 1	2.4	180	< 10	7	< 1	15	1.9	< 1	20	220	26	8.2	2.2	700	10	0.03	100	1300	8	5	6	< 10	19	1100	110	< 10	12	62	13
04686	< 1	2.5	70	< 10	230	< 1	< 5	3.5	< 1	18	140	29	5.1	2.1	1400	< 2	0.02	100	1300	110	< 5	5	< 10	58	52	78	< 10	14	120	3
04687	< 1	0.92	80	< 10	92	< 1	< 5	0.25	< 1	5	22	45	5.0	0.39	200	8	0.02	20	730	59	10	5	< 10	8	16	26	< 10	4	130	2
04688	< 1	1.5	85	< 10	110	< 1	< 5	0.19	< 1	4	22	43	4.7	0.64	210	6	0.02	12	730	31	< 5	5	< 10	7	13	41	< 10	4	94	3
04689	< 1	1.0	30	< 10	180	< 1	< 5	0.10	< 1	4	11	16	2.8	0.44	210	4	0.02	6	420	13	< 5	2	< 10	6	10	14	< 10	4	53	< 1
04690	< 1	0.98	40	< 10	81	< 1	< 5	0.30	< 1	4	11	14	2.5	0.42	280	6	0.02	8	460	23	< 5	2	< 10	8	8	12	< 10	6	86	< 1
04691	< 1	0.51	40	< 10	34	< 1	< 5	0.13	< 1	5	13	30	3.1	0.18	140	4	0.02	2	620	110	< 5	1	< 10	6	8	10	< 10	6	120	< 1
04692 TC	< 1	0.66	20	< 10	74	< 1	< 5	0.15	< 1	3	10	19	2.4	0.28	160	< 2	0.02	2	580	50	< 5	2	< 10	6	5	9	< 10	6	56	2
04693	< 1	0.32	40	< 10	10	< 1	< 5	0.08	< 1	5	15	12	4.3	0.07	54	6	0.02	2	200	83	< 5	< 1	< 10	3	6	8	< 10	2	52	2
04694 CL # 11	< 1	0.33	20	< 10	61	< 1	< 5	0.25	< 1	4	16	7	1.8	0.07	190	< 2	0.02	< 1	880	22	< 5	1	< 10	7	6	6	< 10	7	150	2
04695	< 1	0.30	30	< 10	66	< 1	< 5	1.3	< 1	8	20	29	2.2	0.44	560	< 2	0.03	2	830	28	< 5	2	< 10	13	2	8	< 10	9	240	2
04696	< 1	0.33	30	< 10	34	< 1	< 5	1.0	< 1	6	14	8	2.6	0.32	470	< 2	0.03	< 1	900	15	< 5	2	< 10	14	3	8	< 10	8	110	4
04697	< 1	0.27	45	< 10	22	< 1	< 5	0.14	< 1	4	12	7	2.6	0.05	150	< 2	0.02	2	340	15	< 5	< 1	< 10	3	3	9	< 10	3	37	2
04698	< 1	0.28	40	< 10	19	< 1	< 5	0.09	< 1	3	14	8	2.5	0.04	63	< 2	0.02	2	280	31	< 5	< 1	< 10	3	3	6	< 10	3	35	2
04699	< 1	0.39	20	< 10	40	< 1	< 5	0.15	< 1	4	17	5	2.0	0.11	150	< 2	0.02	< 1	700	35	< 5	1	< 10	3	3	7	< 10	5	62	2
04700	< 1	0.44	50	< 10	33	< 1	< 5	0.04	< 1	2	15	7	2.8	0.10	59	6	0.02	< 1	520	17	< 5	< 1	< 10	5	3	8	< 10	3	51	2
5201	< 1	0.30	35	< 10	25	< 1	< 5	0.03	< 1	2	17	6	2.2	0.04	35	< 2	0.02	< 1	110	16	< 5	< 1	< 10	4	5	6	< 10	2	22	2
5202	< 1	0.29	40	< 10	23	< 1	< 5	0.06	< 1	3	11	6	2.7	0.04	43	< 2	0.02	< 1	230	12	< 5	< 1	< 10	4	6	8	< 10	4	31	< 1
5203	< 1	0.33	45	< 10	19	< 1	< 5	0.09	< 1	1	18	8	3.1	0.06	46	< 2	0.03	1	490	10	< 5	< 1	< 10	9	4	9	< 10	3	28	2
5204	< 1	0.31	35	< 10	35	< 1	< 5	0.08	< 1	2	12	7	2.8	0.03	33	< 2	0.03	1	460	10	< 5	< 1	< 10	6	3	10	< 10	3	34	2

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED : Bernie Dunn

TSL/92

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Date : OCT-07-1992

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
5205	< 1	0.33	35	< 10	23	< 1	< 5	0.04	< 1	2	20	7	2.9	0.05	48	< 2	0.03	1	260	12	< 5	< 1	< 10	6	4	9	< 10	3	35	2
5206	< 1	0.24	40	< 10	11	< 1	< 5	0.03	< 1	3	12	6	2.9	0.03	28	< 2	0.03	< 1	160	8	< 5	< 1	< 10	6	3	6	< 10	1	17	1
5207	< 1	0.36	30	< 10	23	< 1	< 5	0.08	< 1	3	19	6	2.5	0.10	45	< 2	0.03	< 1	430	10	< 5	< 1	< 10	3	3	9	< 10	3	21	3
5208	< 1	0.57	30	< 10	21	< 1	< 5	0.12	< 1	2	10	7	2.8	0.44	150	4	0.03	< 1	420	17	< 5	< 1	< 10	6	3	9	< 10	4	36	2
5209 TG	< 1	0.64	30	< 10	36	< 1	< 5	0.05	< 1	2	15	6	2.7	0.51	140	4	0.03	< 1	350	17	5	< 1	< 10	4	3	10	< 10	2	27	2
5210	< 1	0.83	35	< 10	37	< 1	< 5	0.07	< 1	2	23	8	3.3	0.66	210	4	0.03	4	610	13	< 5	< 1	< 10	5	6	16	< 10	2	67	2
5211 Cl #11	< 1	0.25	30	< 10	37	< 1	< 5	0.02	< 1	2	14	6	2.5	0.07	27	< 2	0.03	< 1	370	8	< 5	< 1	< 10	5	3	7	< 10	1	13	2
5212	< 1	0.28	15	< 10	43	< 1	< 5	0.02	< 1	2	12	6	1.8	0.07	27	< 2	0.03	1	300	15	< 5	< 1	< 10	4	4	6	< 10	1	11	3
5213	< 1	0.32	35	< 10	19	< 1	< 5	0.07	< 1	3	15	9	3.6	0.12	65	4	0.02	< 1	880	13	< 5	< 1	< 10	11	4	9	< 10	2	20	3
5214	< 1	0.53	40	< 10	34	< 1	< 5	0.06	< 1	2	24	9	3.6	0.27	110	4	0.03	< 1	970	16	< 5	< 1	< 10	7	6	11	< 10	2	31	3
5215	< 1	1.1	70	< 10	130	< 1	< 5	0.09	< 1	1	17	11	3.8	0.72	310	< 2	0.03	< 1	1500	33	< 5	2	< 10	51	6	23	< 10	3	77	2
5216	< 1	1.6	55	< 10	65	< 1	< 5	0.19	< 1	2	10	14	3.8	1.5	680	2	0.03	< 1	1200	32	< 5	2	< 10	8	6	32	< 10	5	150	3

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

TSL/92

SIGNED : Bernie Quinn

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780 AV. DU CUIVRE C.P. 6 OUYN-NORANDA QUEBEC J9X 5C6
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Date : OCT-10-1992

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I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

TR-TR-92-4

TG

CL#13

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
1	1	0.97	50	< 10	120	< 1	< 5	0.50	19	9	26	83	4.51	0.11	1548	< 2	0.02	71	2002	21	< 5	8	< 10	48	.5	34	< 10	18	993	6
2	1	1.08	55	< 10	168	< 1	< 5	0.19	15	12	21	86	4.87	0.22	1681	< 2	0.02	65	864	19	< 5	8	< 10	15	.4	28	< 10	8	913	5
3	1	0.82	100	< 10	265	< 1	< 5	0.23	19	10	12	62	4.25	0.07	1717	4	0.02	69	486	22	10	7	< 10	15	.4	25	< 10	7	949	4
4	2	1.40	75	< 10	91	< 1	< 5	0.91	8	9	24	92	5.15	0.20	978	< 2	0.03	39	3128	19	< 5	10	< 10	36	.10	52	< 10	41	536	9
5	1	0.82	70	< 10	274	< 1	< 5	0.31	7	5	14	50	3.39	0.07	814	4	0.03	39	528	13	< 5	6	< 10	20	.6	27	< 10	10	523	2
6	1	1.49	40	< 10	162	< 1	< 5	0.26	2	11	27	78	5.39	0.36	995	< 2	0.03	39	1382	16	< 5	11	< 10	23	.11	44	< 10	19	452	8
7	< 1	1.43	35	< 10	85	< 1	< 5	0.65	3	8	27	60	4.16	0.23	517	2	0.03	27	2398	12	< 5	12	< 10	60	.10	49	< 10	30	256	7
8	< 1	1.43	< 5	< 10	20	< 1	10	10.79	< 1	7	14	23	3.85	0.44	1111	< 2	0.04	10	8378	10	< 5	7	< 10	177	.15	44	< 10	35	173	6
04701	< 1	1.41	10	< 10	8	< 1	< 5	0.48	< 1	8	8	14	4.44	0.75	247	< 2	0.02	1	1426	57	< 5	3	10	50	3	19	< 10	7	102	8
04702	< 1	1.46	5	< 10	9	< 1	< 5	0.33	2	7	10	25	4.39	0.77	245	< 2	0.02	1	1004	70	< 5	2	20	92	3	18	< 10	6	301	5
04703	< 1	1.45	5	< 10	9	< 1	< 5	0.27	< 1	6	14	16	3.71	1.10	365	< 2	0.02	2	876	55	< 5	2	10	66	3	15	< 10	5	120	6
04704	< 1	1.56	15	< 10	9	< 1	< 5	0.30	< 1	6	12	16	4.18	1.25	527	< 2	0.02	< 1	910	75	< 5	2	< 10	71	3	17	< 10	4	94	4
04705	< 1	1.34	5	< 10	6	< 1	< 5	0.26	2	9	13	29	4.83	0.89	345	< 2	0.02	2	1144	54	< 5	2	20	52	2	15	< 10	6	158	9
04706	< 1	0.71	15	< 10	6	< 1	< 5	0.15	1	8	15	24	5.19	0.22	99	4	0.02	< 1	1016	54	< 5	2	10	268	2	8	< 10	6	84	6
04707	< 1	0.77	5	< 10	4	< 1	< 5	0.18	1	11	15	29	7.15	0.16	81	< 2	0.02	< 1	1524	52	< 5	2	20	125	2	9	< 10	7	31	11
04708	< 1	1.17	< 5	< 10	10	2	< 5	0.42	< 1	8	23	15	6.49	0.26	130	2	0.03	1	3874	58	< 5	3	10	1552	2	11	< 10	14	30	5
04709	< 1	0.79	15	< 10	8	< 1	< 5	0.25	< 1	7	23	32	7.47	0.23	124	6	0.02	< 1	1670	120	< 5	2	30	560	2	9	< 10	6	69	7
04710	< 1	0.70	15	< 10	10	< 1	< 5	0.21	< 1	9	17	29	5.24	0.13	76	4	0.03	< 1	1448	99	< 5	2	10	498	2	8	< 10	4	30	3
04711	< 1	1.17	25	< 10	9	< 1	< 5	0.49	< 1	6	19	29	4.81	0.67	485	< 2	0.03	< 1	754	168	< 5	2	10	59	3	16	< 10	6	159	2
04712	< 1	0.95	40	< 10	10	< 1	< 5	0.59	< 1	6	16	16	3.53	0.40	280	2	0.03	< 1	762	50	< 5	1	10	35	3	15	< 10	6	65	2
04713	< 1	1.05	40	< 10	11	< 1	< 5	0.51	< 1	11	18	21	4.65	0.54	623	< 2	0.03	< 1	1252	31	< 5	2	10	19	.51	19	< 10	13	158	2
04714	< 1	1.24	20	< 10	3	< 1	< 5	0.39	1	10	21	30	5.47	0.62	447	< 2	0.03	2	1572	57	< 5	2	< 10	27	.6	15	< 10	11	167	2
04715	< 1	1.30	< 5	< 10	6	< 1	< 5	0.37	1	11	20	23	5.46	0.74	531	< 2	0.03	2	1412	61	< 5	2	10	11	.6	13	< 10	10	178	2
04716	< 1	1.22	< 5	< 10	7	< 1	< 5	0.39	< 1	8	16	23	4.95	0.77	466	< 2	0.03	< 1	1266	57	< 5	2	10	23	.5	17	< 10	8	118	2
04717	< 1	1.50	10	< 10	7	< 1	< 5	0.39	1	11	23	22	5.71	0.87	539	< 2	0.03	< 1	1686	108	< 5	2	10	11	5	14	< 10	13	190	4
04718	< 1	1.41	10	< 10	5	< 1	< 5	0.46	< 1	10	21	22	6.20	0.89	503	< 2	0.03	< 1	1022	85	< 5	2	20	43	5	12	< 10	6	113	5
04719	< 1	1.04	30	< 10	6	< 1	< 5	0.46	< 1	9	23	36	5.13	0.29	344	2	0.03	< 1	1546	34	< 5	2	10	41	3	11	< 10	11	54	3
04720	< 1	2.39	10	< 10	13	< 1	< 5	0.48	2	11	15	19	5.33	1.35	1964	< 2	0.03	< 1	1392	17	< 5	2	< 10	45	6	29	< 10	15	248	3
04721	1	1.38	10	< 10	6	< 1	< 5	0.74	< 1	8	19	33	5.68	0.63	397	8	0.03	< 1	1728	83	< 5	2	< 10	45	3	15	< 10	7	78	2
04722	< 1	1.23	< 5	< 10	10	< 1	< 5	0.36	< 1	3	17	22	3.98	0.69	391	6	0.03	< 1	404	182	< 5	2	< 10	10	3	13	< 10	3	70	< 1
04723	< 1	1.43	10	< 10	12	< 1	< 5	0.40	< 1	4	46	16	3.20	0.92	572	2	0.03	3	1196	91	< 5	1	< 10	29	4	14	< 10	5	102	< 1
04724	< 1	0.84	5	< 10	19	< 1	< 5	0.21	< 1	3	81	14	3.21	0.36	333	< 2	0.02	4	1362	28	< 5	1	< 10	22	10	13	< 10	5	51	< 1
04725	< 1	2.05	5	< 10	14	< 1	< 5	0.35	< 1	8	24	18	4.82	1.29	1173	< 2	0.03	2	1268	17	10	2	< 10	12	7	25	< 10	8	146	2
04726	1	1.10	10	< 10	7	< 1	< 5	0.97	< 1	9	30	18	4.94	0.55	831	< 2	0.03	2	1024	26	< 5	2	10	18	4	13	< 10	14	156	3
04727	< 1	0.72	< 5	< 10	9	< 1	< 5	0.99	< 1	7	41	17	4.56	0.33	735	4	0.02	1	898	23	< 5	1	10	79	.18	7	< 10	15	128	1

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED : Bernie Lum

TSL/92

ora re: SL/ AYI La atc s
780 AV. DU CUIVRE C.P. 6 OUYN-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

PRIME EXP RATIONS LTD
VANCOUVER B.C.
S4837
ATTN: P. LOUGHEED

REPORT No. : T20.

File No. : OCO7MA
Date : OCT-10-1992

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
04728	< 1	1.74	< 5	< 10	6	< 1	< 5	0.94	< 1	10	15	21	5.68	1.16	1194	2	0.03	< 1	1392	29	5	2	< 10	21	5	20	< 10	17	212	2
04729	< 1	1.43	15	< 10	7	< 1	< 5	1.44	< 1	7	44	15	4.75	0.85	1155	< 2	0.03	2	1026	23	< 5	2	10	84	14	17	< 10	11	175	2
04730	2	0.68	15	< 10	< 1	< 1	< 5	0.44	< 1	4	40	53	14.26	0.33	299	8	0.02	< 1	812	160	< 5	< 1	50	9	9	9	< 10	6	64	1
04731	< 1	1.97	20	< 10	26	< 1	< 5	0.37	< 1	5	63	15	4.58	1.28	1154	< 2	0.03	2	1352	74	5	2	< 10	17	55	24	< 10	8	197	1
04732	< 1	1.78	20	< 10	22	< 1	< 5	0.57	< 1	7	27	22	4.34	1.22	1319	< 2	0.03	< 1	1012	21	< 5	1	< 10	15	21	21	< 10	9	188	1
04733	< 1	2.60	30	< 10	30	< 1	< 5	0.36	< 1	4	22	29	4.13	1.68	1406	2	0.03	1	1122	101	5	2	< 10	23	70	36	< 10	5	315	2
04734	< 1	0.77	35	< 10	11	< 1	< 5	0.25	< 1	6	48	21	3.27	0.48	329	2	0.02	1	400	66	< 5	< 1	< 10	11	26	11	< 10	4	77	< 1
04735	< 1	1.55	15	< 10	17	< 1	< 5	0.35	< 1	6	21	15	4.10	1.16	870	< 2	0.03	< 1	1138	28	< 5	1	< 10	11	19	18	< 10	6	168	1
04736	< 1	1.26	15	< 10	7	< 1	< 5	4.13	< 1	9	37	21	5.37	0.85	2207	< 2	0.03	2	1044	49	< 5	1	< 10	57	89	13	< 10	23	270	2
5001	< 1	0.56	20	< 10	62	< 1	5	0.20	< 1	2	40	8	1.88	0.34	169	< 2	0.02	2	244	17	< 5	1	< 10	6	912	5	< 10	4	53	7
5002	< 1	3.47	15	< 10	34	< 1	< 5	2.39	< 1	22	93	49	5.79	1.85	1717	< 2	0.03	72	2164	5	10	9	< 10	32	1676	94	< 10	18	126	11
5003	2	0.52	120	< 10	187	< 1	< 5	0.07	< 1	2	47	22	2.47	0.29	123	< 2	0.02	5	246	27	< 5	1	< 10	8	775	8	< 10	2	43	5
5004	< 1	4.02	25	20	89	< 1	< 5	1.51	< 1	25	101	48	6.35	2.04	1431	< 2	0.04	71	2010	7	15	12	< 10	35	1387	114	< 10	18	196	12
5005	< 1	0.74	45	< 10	119	< 1	< 5	0.24	< 1	4	46	20	2.60	0.32	207	4	0.03	11	720	83	< 5	4	< 10	9	1670	27	< 10	5	75	7
5006	< 1	0.79	10	< 10	83	< 1	< 5	0.11	< 1	1	56	8	1.79	0.48	192	< 2	0.05	5	248	26	< 5	1	< 10	5	680	9	< 10	3	110	5
5007	3	1.41	155	< 10	45	< 1	< 5	0.96	< 1	14	61	30	4.86	0.72	694	< 2	0.03	42	1628	39	< 5	6	< 10	15	1866	77	< 10	12	110	9
5008	< 1	0.95	10	< 10	89	< 1	< 5	0.16	< 1	3	70	7	1.99	0.41	222	< 2	0.04	6	236	20	< 5	1	< 10	11	1198	14	< 10	4	55	9
5009	< 1	1.41	25	< 10	68	< 1	< 5	0.62	< 1	4	46	7	2.20	0.99	516	2	0.04	14	354	20	15	2	< 10	17	1260	24	< 10	6	58	10
5010	< 1	1.23	15	< 10	69	< 1	< 5	1.12	< 1	4	39	6	2.00	0.72	539	< 2	0.05	9	292	12	< 5	2	< 10	21	762	19	< 10	7	54	10
5011	< 1	3.69	< 5	< 10	46	< 1	< 5	1.95	< 1	28	116	57	7.06	1.76	1736	< 2	0.08	77	2184	5	< 5	10	< 10	68	1690	128	< 10	17	120	9
5012	< 1	0.91	10	< 10	102	< 1	< 5	0.26	< 1	4	73	6	1.70	0.41	360	2	0.04	6	250	18	< 5	1	< 10	8	1007	10	< 10	5	66	11
5013	< 1	0.95	10	< 10	62	< 1	< 5	0.26	< 1	3	30	10	1.65	0.46	430	< 2	0.04	6	268	23	< 5	1	< 10	7	822	9	< 10	4	71	9
5014	< 1	0.76	< 5	< 10	72	< 1	< 5	0.33	< 1	2	67	7	1.20	0.32	270	< 2	0.03	3	210	24	< 5	1	< 10	5	798	8	< 10	4	54	9
5015	< 1	0.66	< 5	< 10	112	< 1	< 5	0.16	< 1	2	43	3	1.43	0.26	330	< 2	0.04	3	216	10	< 5	< 1	< 10	6	45	6	< 10	4	63	3
5016	< 1	0.37	< 5	< 10	196	< 1	5	0.10	< 1	2	54	4	0.52	0.04	263	< 2	0.05	4	206	69	< 5	< 1	< 10	7	10	< 1	< 10	3	49	2
5017	< 1	0.39	20	< 10	410	< 1	< 5	0.34	< 1	4	36	4	1.07	0.11	377	< 2	0.04	3	176	23	< 5	< 1	< 10	11	42	6	< 10	4	46	2
5018	< 1	0.34	30	< 10	255	< 1	< 5	0.53	< 1	2	51	4	0.79	0.05	363	< 2	0.05	4	172	9	< 5	< 1	< 10	8	6	1	< 10	4	29	2
5019	< 1	0.58	15	< 10	91	< 1	< 5	0.12	< 1	2	34	3	1.13	0.21	317	< 2	0.04	3	218	33	< 5	< 1	< 10	5	12	4	< 10	5	36	2
5020	< 1	0.86	< 5	< 10	290	< 1	< 5	0.18	< 1	3	54	5	1.75	0.38	395	< 2	0.04	2	228	14	< 5	< 1	< 10	7	17	5	< 10	8	61	3
5021	< 1	0.65	< 5	< 10	120	< 1	< 5	0.14	< 1	2	58	6	1.35	0.28	327	< 2	0.04	3	198	21	< 5	< 1	< 10	7	22	7	< 10	5	46	3
5022	< 1	0.55	10	< 10	113	< 1	< 5	0.24	< 1	3	92	4	1.37	0.18	355	< 2	0.06	3	202	13	< 5	< 1	< 10	8	12	7	< 10	6	45	3
5023	< 1	0.32	10	< 10	203	< 1	< 5	0.36	1	3	50	5	1.11	0.07	388	< 2	0.05	3	212	21	10	< 1	< 10	9	10	2	< 10	5	83	< 1
5024	< 1	0.50	10	< 10	126	< 1	< 5	0.76	< 1	2	70	5	1.35	0.16	316	< 2	0.05	2	196	9	< 5	< 1	< 10	14	8	8	< 10	5	102	2
5025	< 1	0.34	5	< 10	194	< 1	< 5	0.10	< 1	2	65	5	1.21	0.08	202	< 2	0.05	2	218	18	< 5	< 1	< 10	6	10	5	< 10	5	88	2
5026	< 1	0.67	< 5	< 10	92	< 1	< 5	0.33	< 1	2	79	6	1.54	0.27	361	< 2	0.05	2	216	14	< 5	< 1	< 10	7	11	6	< 10	8	63	2

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED : Bernie Dunn

TSL/92

Laboratories TSL/ AYER Laboratories
780 AV. DU CUIVRE C.P. 6[illegible] ROUYN-NORANDA QUEBEC J9X 5C6
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PRIME EXPLORATIONS LTD
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S4837
ATTN:P.LOUGHEED

REPORT No. : T20[illegible]
Page No. : 3 of 4
File No. : OC07MA
Date : OCT-10-1992

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
5027	< 1	0.37	< 5	< 10	143	< 1	< 5	0.24	< 1	2	55	4	1.19	0.08	358	< 2	0.05	2	230	46	< 5	< 1	< 10	7	7	2	< 10	7	78	4
5028	< 1	0.49	10	< 10	81	< 1	< 5	0.51	< 1	2	57	5	1.32	0.20	348	< 2	0.04	1	218	27	< 5	< 1	< 10	8	12	7	< 10	6	109	1
5029	< 1	0.35	5	< 10	116	< 1	< 5	0.38	< 1	2	34	4	1.37	0.07	403	< 2	0.04	1	246	22	< 5	< 1	< 10	8	6	2	< 10	5	76	< 1
5030	< 1	0.63	5	< 10	144	< 1	< 5	0.46	< 1	2	47	5	1.25	0.20	509	< 2	0.04	1	226	13	< 5	< 1	< 10	10	7	6	< 10	6	82	3
5031	< 1	0.47	10	< 10	117	< 1	< 5	0.39	< 1	3	42	6	1.31	0.13	548	< 2	0.04	2	220	40	< 5	< 1	< 10	6	14	7	< 10	5	104	< 1
5032	< 1	0.58	10	< 10	85	< 1	< 5	0.26	< 1	2	44	4	1.42	0.23	326	< 2	0.03	2	204	21	< 5	< 1	< 10	7	12	7	< 10	5	77	2
5033	< 1	0.39	5	< 10	65	< 1	< 5	0.07	< 1	2	49	5	1.05	0.11	214	< 2	0.04	2	216	21	< 5	< 1	< 10	3	15	3	< 10	4	103	2
5034	< 1	0.39	< 5	< 10	71	< 1	< 5	0.06	< 1	2	55	3	1.09	0.08	175	< 2	0.04	2	198	13	< 5	< 1	< 10	4	7	3	< 10	4	118	3
5035	< 1	0.40	10	< 10	91	< 1	< 5	0.06	< 1	2	53	4	1.08	0.07	219	< 2	0.05	2	192	14	< 5	< 1	< 10	4	11	2	< 10	4	78	3
5036	< 1	0.34	15	< 10	74	< 1	< 5	0.06	< 1	2	59	3	1.12	0.07	127	< 2	0.05	2	226	14	< 5	< 1	< 10	4	12	3	< 10	4	45	2
5037	< 1	0.26	< 5	< 10	84	< 1	< 5	0.11	< 1	2	39	4	1.25	0.09	183	< 2	0.03	3	180	11	< 5	< 1	< 10	6	40	6	< 10	4	89	< 1
5192	2	0.47	50	< 10	122	< 1	< 5	1.11	9	9	30	89	4.80	0.03	642	4	0.02	35	4454	32	< 5	6	< 10	50	5	20	< 10	45	790	5
5193	< 1	0.63	55	< 10	137	< 1	< 5	0.63	4	3	29	49	4.32	0.20	190	2	0.02	20	2702	25	< 5	4	< 10	44	4	20	< 10	21	520	3
5194	1	0.33	65	< 10	218	< 1	< 5	0.13	8	6	41	80	5.32	0.03	556	4	0.02	37	754	28	< 5	4	< 10	23	3	12	< 10	10	1007	3
5195	< 1	0.72	105	< 10	989	1	< 5	0.13	34	21	34	140	6.19	0.02	3496	4	0.02	156	886	205	25	9	< 10	17	4	19	< 10	27	1966	6
5196	< 1	0.43	80	< 10	151	< 1	< 5	0.10	7	8	21	65	5.53	0.02	688	4	0.02	38	728	69	< 5	6	< 10	15	3	17	< 10	11	769	4
5197	< 1	0.29	60	< 10	40	< 1	< 5	0.03	1	4	17	41	3.80	0.01	218	6	0.02	15	246	27	< 5	3	< 10	6	3	17	< 10	3	222	1
5198	< 1	0.43	75	< 10	245	< 1	< 5	0.07	3	5	15	52	3.79	0.02	425	4	0.02	23	394	21	< 5	4	< 10	9	2	17	< 10	11	413	2
5199	1	0.64	85	< 10	74	< 1	< 5	0.21	20	16	18	74	5.94	0.11	2415	< 2	0.02	76	1434	17	< 5	6	< 10	18	3	24	< 10	12	1032	4
5200	< 1	0.52	65	< 10	160	< 1	< 5	0.18	7	7	12	73	4.54	0.07	641	4	0.02	37	636	16	< 5	5	< 10	13	3	15	< 10	9	643	3
5217	< 1	0.42	35	< 10	81	< 1	< 5	0.02	< 1	3	36	52	9.32	0.25	218	< 2	0.03	4	1282	30	< 5	1	< 10	21	333	34	< 10	2	39	2
5218	< 1	0.63	30	< 10	23	< 1	< 5	0.05	< 1	7	39	38	9.88	0.54	419	< 2	0.03	12	1058	24	< 5	1	< 10	18	1235	60	< 10	2	47	4
5219	< 1	0.36	35	< 10	83	< 1	< 5	0.01	< 1	2	16	57	13.57	0.19	184	2	0.03	< 1	1398	33	< 5	< 1	< 10	21	210	19	< 10	2	23	1
5220	< 1	0.16	25	< 10	42	< 1	< 5	<0.01	< 1	< 1	13	13	3.17	0.08	55	< 2	0.02	1	410	8	< 5	< 1	< 10	26	145	7	< 10	< 1	9	< 1
5221	< 1	0.11	25	< 10	38	< 1	< 5	<0.01	< 1	1	10	6	1.69	<0.01	10	< 2	0.02	< 1	130	5	< 5	< 1	< 10	41	9	2	< 10	< 1	4	< 1
5222	< 1	0.17	40	< 10	26	< 1	< 5	<0.01	< 1	< 1	13	6	1.75	<0.01	6	< 2	0.02	< 1	84	11	< 5	< 1	< 10	16	5	5	< 10	< 1	3	< 1
5223	< 1	0.42	170	< 10	57	< 1	< 5	0.02	< 1	2	14	28	4.10	0.15	153	2	0.02	1	778	22	< 5	1	< 10	33	6	22	< 10	1	21	1
5224	< 1	0.58	230	< 10	88	< 1	< 5	<0.01	< 1	1	13	61	5.50	0.33	290	4	0.02	< 1	998	27	15	1	< 10	45	12	31	< 10	< 1	65	1
5225	< 1	0.42	290	< 10	29	< 1	< 5	0.04	< 1	6	11	41	3.50	0.14	143	< 2	0.02	2	796	18	< 5	2	< 10	23	7	14	< 10	< 1	39	1
5226	< 1	0.41	360	< 10	44	< 1	< 5	0.07	< 1	4	13	42	2.40	0.13	131	< 2	0.02	< 1	642	14	< 5	1	< 10	15	4	10	< 10	< 1	34	< 1
5227	< 1	0.17	250	< 10	26	< 1	< 5	0.03	< 1	6	12	37	1.86	0.05	24	< 2	0.02	2	216	15	< 5	< 1	< 10	9	18	9	< 10	< 1	8	< 1
5228	< 1	0.30	210	< 10	26	< 1	< 5	0.02	< 1	5	15	68	4.77	0.15	140	4	0.02	1	982	44	25	1	< 10	32	9	16	< 10	1	23	1
5229	< 1	1.76	190	< 10	37	< 1	< 5	0.06	< 1	15	57	89	7.45	1.31	1884	< 2	0.02	31	1096	77	10	5	< 10	25	18	53	< 10	5	95	3
5230	< 1	0.24	210	< 10	24	< 1	< 5	0.03	< 1	4	18	47	3.94	0.12	141	< 2	0.02	2	866	53	10	2	< 10	24	5	12	< 10	1	21	1
5231	< 1	1.00	205	< 10	20	< 1	< 5	0.07	< 1	5	15	70	5.66	0.76	864	< 2	0.02	1	1418	107	10	2	< 10	28	9	24	< 10	2	120	2

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED : Bernie Quinn

TSL/92

PRIME EXP. RATIONS LTD
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ATTN:P.LOUGHEED

780 AV. DU CUIVRE C.P. 6(DUYN-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

REPORT No. : T20.
Page No. : 4 of 4
File No. : OC07MA
Date : OCT-10-1992

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
5232	< 1	0.41	150	< 10	36	< 1	< 5	0.03	< 1	2	23	29	3.66	0.25	240	2	0.02	1	820	104	5	1	< 10	33	8	12	< 10	1	42	1
5233	< 1	0.81	170	< 10	20	< 1	< 5	0.07	< 1	8	11	37	4.63	0.62	662	< 2	0.02	2	942	132	5	2	< 10	21	5	18	< 10	1	130	2
5234	< 1	1.07	290	< 10	23	< 1	< 5	0.08	< 1	9	18	35	5.03	0.86	904	< 2	0.02	3	1306	97	5	2	< 10	26	5	19	< 10	2	169	2
5235	< 1	0.55	280	< 10	38	< 1	< 5	0.02	< 1	3	18	42	5.64	0.35	365	< 2	0.02	1	1792	102	< 5	1	< 10	33	7	16	< 10	1	64	2
5236	< 1	0.75	205	< 10	30	< 1	< 5	0.03	< 1	4	16	38	5.55	0.62	545	< 2	0.02	< 1	1246	97	< 5	1	< 10	22	8	20	< 10	1	118	1
5237	< 1	0.63	185	< 10	88	< 1	< 5	0.01	< 1	1	23	54	7.76	0.61	448	< 2	0.02	< 1	1676	137	15	< 1	< 10	23	11	33	< 10	1	68	2
5238	< 1	0.52	225	< 10	43	< 1	< 5	0.02	< 1	3	27	22	4.23	0.37	267	2	0.02	< 1	1102	90	10	1	< 10	30	5	19	< 10	1	48	1
5239	< 1	0.18	55	< 10	114	< 1	< 5	<0.01	< 1	< 1	15	49	7.51	0.04	39	2	0.02	< 1	756	159	< 5	< 1	< 10	22	33	10	< 10	1	12	< 1
5240	< 1	0.53	30	< 10	58	< 1	< 5	0.03	< 1	4	48	44	4.46	0.33	204	2	0.02	7	694	16	< 5	1	< 10	28	296	23	< 10	2	47	3
5241	< 1	0.49	110	< 10	40	< 1	< 5	0.01	< 1	1	20	38	8.15	0.35	254	< 2	0.03	2	1304	39	10	< 1	< 10	15	410	24	< 10	2	38	2
5242	< 1	0.89	50	< 10	112	< 1	< 5	0.03	< 1	3	20	26	8.53	0.47	371	< 2	0.03	2	1292	20	< 5	< 1	< 10	17	38	27	< 10	3	46	2
5243	< 1	1.88	30	< 10	94	< 1	< 5	1.63	< 1	8	22	21	4.39	1.27	1168	< 2	0.02	6	968	9	5	2	< 10	25	54	24	< 10	8	68	3
5244	< 1	0.49	65	< 10	27	< 1	< 5	0.15	< 1	5	26	17	5.62	0.37	278	2	0.03	3	1390	19	< 5	1	< 10	10	141	17	< 10	3	32	4
5245	< 1	0.80	170	< 10	66	< 1	< 5	0.06	< 1	4	16	60	8.22	0.73	516	< 2	0.03	< 1	1902	46	< 5	2	< 10	10	1484	44	< 10	5	103	4
5246	< 1	0.37	270	< 10	61	< 1	< 5	0.07	< 1	2	37	41	5.49	0.30	241	2	0.02	2	1468	143	5	1	< 10	20	417	22	< 10	1	44	2

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED :

TSL/92

Laboratoires T.S.L./ AYER Laboratories
780 AV. DU CUIVRE C.P. 66 JUYN-NORANDA QUEBEC J9X 5C6
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REPORT No. : T207
Page No. : 1 of 2
File No. : OC06MA
Date : OCT-21-1992

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

RECEIVED OCT 23 1992

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
5247	< 1	2.3	85	< 10	40	< 1	< 5	0.25	< 1	21	130	140	4.3	2.0	1700	< 2	0.02	47	610	45	10	5	< 10	11	310	64	< 10	8	190	3
5248	< 1	0.66	140	< 10	29	< 1	< 5	0.19	< 1	7	8	42	5.1	0.68	590	< 2	0.02	2	1500	70	< 5	1	< 10	12	970	35	< 10	4	130	2
5249	< 1	0.64	200	< 10	28	< 1	< 5	0.36	< 1	6	15	55	4.3	0.63	500	< 2	0.02	2	1500	51	< 5	1	< 10	13	450	26	< 10	4	110	2
5250	< 1	1.0	140	< 10	50	< 1	< 5	0.25	< 1	8	9	83	5.4	0.89	1000	2	0.02	2	1700	180	< 5	2	< 10	24	780	37	< 10	5	190	2
5251	< 1	1.3	110	< 10	32	< 1	< 5	0.76	< 1	16	9	68	4.2	1.2	1600	< 2	0.02	3	1500	63	< 5	2	< 10	22	270	32	< 10	6	220	< 1
5252	< 1	0.97	90	< 10	22	< 1	< 5	5.7	< 1	10	7	82	3.9	0.72	2800	< 2	0.02	1	1400	42	< 5	2	< 10	120	440	22	< 10	9	140	3
5253	< 1	1.2	130	< 10	14	< 1	< 5	1.2	< 1	13	11	60	4.4	1.1	1500	< 2	0.02	1	1500	37	< 5	2	< 10	29	140	27	< 10	7	140	2
5254	< 1	1.3	95	< 10	23	< 1	< 5	0.86	< 1	13	9	52	3.8	1.3	1500	< 2	0.02	2	1600	38	10	2	< 10	20	120	28	< 10	6	180	1
5255	< 1	0.97	55	< 10	50	< 1	< 5	0.20	< 1	8	44	67	4.3	1.0	800	< 2	0.04	14	1000	120	10	2	< 10	17	630	44	< 10	5	140	1
5256	< 1	0.40	40	< 10	80	< 1	< 5	0.02	< 1	< 1	8	42	3.9	0.41	340	4	0.07	< 1	1300	94	< 5	< 1	< 10	27	630	31	< 10	< 1	60	< 1
5257	< 1	0.39	60	< 10	74	< 1	< 5	0.02	< 1	< 1	13	19	4.7	0.41	300	4	0.06	< 1	1800	120	< 5	< 1	< 10	24	650	31	< 10	< 1	46	< 1
5258	< 1	0.47	30	< 10	47	< 1	< 5	0.03	< 1	2	6	41	4.1	0.48	350	4	0.04	< 1	1200	120	< 5	< 1	< 10	17	440	25	< 10	< 1	66	< 1
5259	< 1	1.3	50	< 10	33	< 1	< 5	0.33	< 1	11	48	67	4.5	1.4	970	< 2	0.02	19	1200	66	< 5	4	< 10	13	330	45	< 10	5	140	3
5260	< 1	2.2	55	< 10	22	< 1	< 5	2.6	< 1	23	100	91	4.5	1.9	2300	< 2	0.02	45	640	30	5	7	< 10	46	200	69	< 10	12	190	5
5261	< 1	0.84	25	< 10	14	< 1	< 5	0.50	< 1	14	19	60	4.5	0.95	1100	< 2	0.02	5	1600	75	< 5	2	< 10	11	170	30	< 10	7	150	2
5262	< 1	0.76	20	< 10	15	< 1	< 5	0.36	< 1	10	12	31	4.7	0.89	760	< 2	0.02	1	2000	45	< 5	1	< 10	11	260	28	< 10	5	130	2
5263	< 1	0.52	85	< 10	14	< 1	< 5	0.26	< 1	9	12	83	3.6	0.52	490	< 2	0.02	< 1	1800	46	20	< 1	< 10	8	140	18	< 10	3	78	< 1
5264	< 1	0.40	50	< 10	14	< 1	< 5	0.22	< 1	9	8	33	3.5	0.40	360	2	0.02	1	1500	81	< 5	1	< 10	8	160	17	< 10	3	58	3
5265	< 1	0.36	10	< 10	20	< 1	< 5	0.10	< 1	4	14	16	2.2	0.38	370	< 2	0.02	2	620	60	< 5	< 1	< 10	7	210	16	< 10	2	46	2
5266	< 1	0.38	30	< 10	24	< 1	< 5	0.14	< 1	3	8	23	2.7	0.39	380	< 2	0.02	< 1	1200	69	5	< 1	< 10	10	440	20	< 10	2	43	2
5267	< 1	0.46	40	< 10	39	< 1	< 5	0.07	< 1	3	26	17	1.6	0.46	470	< 2	0.02	6	590	44	< 5	1	< 10	8	760	25	< 10	< 1	43	3
5268	< 1	0.37	< 5	< 10	22	< 1	< 5	0.19	< 1	5	8	24	2.1	0.31	310	< 2	0.02	< 1	330	97	< 5	< 1	< 10	8	460	14	< 10	1	34	< 1
5269	< 1	0.60	30	< 10	50	< 1	< 5	0.10	< 1	2	11	16	1.4	0.66	700	< 2	0.02	< 1	410	59	< 5	< 1	< 10	13	870	29	< 10	1	65	3
5270	< 1	0.21	120	< 10	16	< 1	< 5	0.02	< 1	4	13	26	2.2	0.10	120	< 2	0.02	< 1	800	67	5	2	< 10	11	250	13	< 10	< 1	16	4
5271	< 1	0.25	95	< 10	21	< 1	< 5	0.37	< 1	4	10	15	2.1	0.20	410	< 2	0.02	< 1	910	46	< 5	1	< 10	42	220	12	< 10	2	29	3
5272	< 1	1.1	40	< 10	7	< 1	< 5	2.8	< 1	12	31	240	4.7	0.80	2300	< 2	0.04	4	1700	140	< 5	3	10	87	1300	55	< 10	11	390	8
5273	< 1	0.47	20	< 10	22	< 1	< 5	0.92	< 1	5	17	23	3.1	0.45	750	< 2	0.03	< 1	1300	27	< 5	1	< 10	38	310	19	< 10	4	47	3
5274	< 1	0.49	10	< 10	13	< 1	< 5	1.4	< 1	7	14	12	3.8	0.51	1100	2	0.03	< 1	1400	45	< 5	1	< 10	57	190	16	< 10	6	77	4
5275	< 1	0.42	35	< 10	15	< 1	< 5	0.20	< 1	5	13	22	2.8	0.43	490	< 2	0.03	< 1	900	41	10	< 1	< 10	11	310	17	< 10	3	41	4
5276	< 1	0.35	10	< 10	24	< 1	< 5	0.08	< 1	3	10	7	1.6	0.38	330	< 2	0.03	< 1	430	26	< 5	< 1	< 10	7	550	17	< 10	1	28	4
5277	< 1	0.27	10	< 10	17	< 1	< 5	0.09	< 1	4	9	12	2.0	0.25	260	< 2	0.02	< 1	580	27	< 5	< 1	< 10	6	320	16	< 10	1	21	3
5278	< 1	0.40	20	< 10	10	< 1	< 5	0.15	< 1	10	9	37	3.3	0.43	410	< 2	0.02	< 1	860	41	< 5	< 1	< 10	8	250	19	< 10	2	40	4
5279	< 1	0.38	< 5	< 10	13	< 1	< 5	0.16	< 1	8	10	29	3.4	0.38	400	2	0.02	< 1	600	34	< 5	< 1	< 10	12	440	19	< 10	2	34	3
5280	< 1	0.33	20	< 10	16	< 1	< 5	0.55	< 1	5	9	14	3.0	0.29	450	< 2	0.02	< 1	1100	27	< 5	< 1	< 10	19	450	17	< 10	4	32	4
5281	< 1	0.39	60	< 10	25	< 1	< 5	0.10	< 1	2	9	21	2.3	0.32	300	< 2	0.02	< 1	810	32	< 5	< 1	< 10	12	670	25	< 10	2	46	3

TG
CL # 12

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED : Bernie Quinn

TSL/92

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REPORT No. : T207
Page No. : 2 of 2
File No. : OC06MA
Date : OCT-21-1992

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
5282	< 1	0.39	55	< 10	26	< 1	< 5	0.05	< 1	2	14	20	2.7	0.38	270	< 2	0.02	< 1	790	27	< 5	< 1	< 10	16	440	29	< 10	1	45	2
5283	< 1	0.47	15	< 10	16	< 1	< 5	0.17	< 1	4	12	28	3.0	0.46	340	< 2	0.02	< 1	980	27	< 5	1	< 10	12	100	26	< 10	3	59	1
5284	< 1	0.52	40	< 10	20	< 1	< 5	0.14	< 1	4	9	29	3.1	0.52	430	4	0.02	< 1	950	22	< 5	< 1	< 10	10	110	26	< 10	2	67	< 1
5285	< 1	0.53	10	< 10	23	< 1	< 5	0.10	< 1	2	16	18	2.6	0.50	390	< 2	0.02	< 1	740	9	< 5	< 1	< 10	10	310	28	< 10	2	47	2
5286	< 1	0.45	15	< 10	15	< 1	< 5	0.17	< 1	5	9	34	3.4	0.46	320	2	0.02	< 1	1200	34	< 5	< 1	< 10	9	380	20	< 10	2	62	1

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

SIGNED : Bernie Ouan

TSL/92

ore re SL/ AYI La atc s
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REPORT No. : T20
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Date : OCT-07-1992

I.C.A.P. PLASMA SCAN

Aqua-Regia Digestion

OCT 9

SAMPLE #	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sn	Sr	Ti	V	W	Y	Zn	Zr
	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
04751	< 1	0.46	10	< 10	37	< 1	10	18	< 1	4	8	13	2.2	0.47	3300	< 2	0.02	8	3900	3	< 5	4	< 10	200	6	17	< 10	14	96	3
04752	< 1	0.38	5	< 10	42	< 1	5	21	< 1	2	12	7	1.6	0.51	1300	< 2	0.02	7	2200	1	< 5	3	< 10	220	< 1	12	< 10	12	68	3
04753	< 1	0.23	5	< 10	47	< 1	20	24	< 1	1	5	5	1.1	0.44	1800	< 2	0.02	4	1700	< 1	< 5	3	< 10	270	< 1	6	< 10	14	47	2
04754	< 1	0.17	5	< 10	100	< 1	15	24	< 1	1	3	4	0.77	0.46	1100	< 2	0.02	1	1600	< 1	< 5	2	< 10	390	< 1	4	< 10	11	35	2
04755	< 1	0.21	< 5	< 10	62	< 1	15	23	< 1	1	3	5	0.94	0.41	1100	< 2	0.02	1	1300	< 1	< 5	2	< 10	260	< 1	5	< 10	9	44	2
TR-TR-92-4																														
04756	< 1	0.18	5	< 10	96	< 1	15	22	< 1	1	4	7	1.1	0.37	1100	< 2	0.02	4	1500	< 1	< 5	3	< 10	270	< 1	5	< 10	10	52	2
04757	< 1	0.25	10	< 10	43	< 1	10	20	< 1	1	4	9	1.5	0.39	1100	< 2	0.02	3	2000	< 1	< 5	4	< 10	290	< 1	7	< 10	11	58	3
04758	< 1	0.59	15	< 10	35	< 1	< 5	2.2	< 1	4	22	18	3.6	0.25	440	2	0.03	5	2400	9	< 5	4	< 10	39	5	20	< 10	16	92	3
04759	< 1	0.65	40	< 10	24	< 1	< 5	0.69	< 1	3	14	14	5.4	0.22	280	4	0.04	3	2100	17	< 5	4	< 10	23	6	32	< 10	9	61	4
5287	< 1	0.28	40	< 10	7	< 1	< 5	0.19	< 1	16	17	25	4.7	0.02	26	4	0.04	< 1	120	13	< 5	< 1	10	19	2	10	< 10	1	5	2
5288 TR-92-11	< 1	0.22	20	< 10	14	< 1	< 5	0.22	< 1	1	28	6	2.0	0.06	20	< 2	0.02	4	350	3	< 5	< 1	< 10	12	37	9	< 10	2	4	1
5289	< 1	0.22	30	< 10	23	< 1	< 5	0.10	< 1	4	44	9	1.8	0.01	15	2	0.02	< 1	68	11	< 5	< 1	< 10	6	2	4	< 10	< 1	6	< 1

A .5 gm sample is digested with 2 ml of 3:1 HCL/HNO3
at 95 C for 90 min and diluted to 10 ml with DI H2O
This method is partial for many oxide materials

TSL/92

SIGNED : Bernice Quinn

A P P E N D I X I I

DESCRIPTION OF THIN SECTIONS

FROM TREATY CREEK PROJECT

DESCRIPTION OF THIN SECTIONS
FROM TREATY CREEK PROJECT

Thin sections #2, 3, 4, 5 collected from the Orpiment Zone - combined description

Laminated, silica-alunite-pyrite rock

Mineral composition of the rock represented by the four thin sections is as follows:

Cryptocrystalline to very fine grained silica	30-40%
Fine grained quartz	25-30%
Alunite	25-30%
Pyrite	10-15%

These minerals comprise 2 types of laminae 0.5 to 3.0 mm thick. One type is composed of cryptocrystalline to very fine grained mutually interlocking quartz grains with subordinate amounts of pyrite and alunite. Layers of the second type consist of a coarser mosaic of quartz and alunite crystals with subhedral pyrite crystals.

Thin section #1 collected from north-west portion of Treaty Gossan.

Aragonite

About 90% of the thin section is comprised by needle-like aragonite crystals up to 3 mm long; most of the crystals are arranged in rosette shaped aggregated filling open spaces in host rock.

COST STATEMENT

PROJECT GEOLOGIST	11 DAYS @ $350 DAY	$ 3850.00
GEOLOGISTS	29 DAYS @ $235 DAY	$ 6815.00
	13 DAYS @ $270 DAY	$ 3510.00
	28.5 DAYS @ $235 DAY	$ 6697.00
TECHNICIAN/PROSPECTOR	34 DAYS @ $247 DAY	$ 8398.00
TECHNICIAN	38 DAYS @ $182 DAY	$ 6916.00

BLASTING/EXPLOSIVES		$ 33,685.24
FREIGHT		$ 3904.32
COMMUNICATIONS		$ 890.40
ROOM AND BOARD		$ 13,456.55
EQUIPMENT		$ 2701.58
FUEL		$ 1115.63
EXPEDITING		$ 2983.36
TRAVEL		$ 7273.20
PETROGRAPHICS		$ 53.75
REPORT	GEOLOGIST 5 DAYS @ $350/DAY	$ 1750.00
	GEOLOGIST 5 DAYS @ $270/DAY	$ 1350.00
REPRODUCTIONS		$ 57.40
OFFICE SUPPLIES		$ 114.46
GEOCHEMISTRY (1159 ROCKS)		$ 11,040.00
HELICOPTER SUPPORT		$ 59,564.93
TOTAL		**$176,126.82**