REPORT ON 1994 GEOCHEMICAL AND TRENCHING PROGRAM ON THE

UDUK LAKE PROPERTY
DUK 1-4, 7-9, 10A, 10B

OMINECA MINING DIVISION, BRITISH COLUMBIA
NTS 93 E/9, F/12
LATITUDE: 53° 38'N
LONGITUDE: 126° 00'W

Owner:
Pacific Comox Resources Ltd.
704 - 850 West Hastings Street
Vancouver, B.C.
V6C 1E1

Operator:
Pioneer Metals Corporation
#1770 - 401 West Georgia Street
Vancouver, B.C.
V6B 5A1

Authors:
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October 31, 1994

1.0 SUMMARY

The Uduk Lake property is owned by Pacific Comox Resources Ltd. Pioneer Metals Corporation has an option to earn 70% of the property by making staged cash payments totaling $150,000 on or before January 2, 1998 and expending $1,000,000 on the property on or before June 1, 1998. To date, $150,000 has been expended and $30,000 paid to Pacific Comox.

The property is underlain by weakly to intensely argillized and quartz veined rhyolitic volcanic rocks of the Eocene Ootsa Lake Formation. Rock samples have returned values up to 5.7 gm/t with numerous samples over 1.0 gm/t.

In 1993, Pioneer carried out a soil geochemical survey on the Duk 1 and Duk 2 claims, consisting of 864 soil samples. In addition, ten rock samples were taken to check previously sampled mineralization. The survey was carried out on east-west lines, 200 meters apart with 25 meter sample spacing.

Results outlined six very strong coincident gold, silver, arsenic anomalies.

In 1994 Pioneer carried out a program of geological mapping, infill geochemical soil sampling, mechanized trenching, and a test magnetometer survey.

Geological mapping confirmed the Uduk Lake Property's geological and geochemical similarities to the Round Mountain Mine in Nevada. Infill geochemical soil sampling confirmed and better defined the anomalies outlined in 1993. Six trenches were dug with a Hyundai Ex 130 LC excavator. Overburden depth was less than two meters, averaging 1.0 meters. Five of the six trenches returned anomalous (> 100 ppb) values for gold. Drilling to 0.6 meters, blasting and resampling confirmed and increased the anomalies. Best values were 1.4 gm/t Au over six metres in Trench #4, with the whole of the trench averaging 0.41 gm/t Au.

The magnetometer test survey showed contrasts up to 200 gammas.

CONCLUSIONS

The Duk claims overlie an area of argillically altered rhyolite to dacite flows, tuffs and breccia. These rocks contain anomalously high levels of gold to 5.7 gm/t in grab samples. Soil sampling outlined six areas highly anomalous in gold, silver, and arsenic.

The Duk claims cover rocks with similar geology and geochemistry to Echo Bay's Round Mountain deposit in Nevada (Tingley, J.V. and Berger, B.R., 1985). As of

mid-1993, 2.2 million ounces of gold have been mined from this deposit with 5.8 million ounces in reserve.

Trenching returned anomalous values in gold (> 100 ppb) in five of six trenches. Values greater than Round Mountain's average grade were returned in two trenches. The area being tested exceeds 2.5 square kilometers with less than 2% outcrop. These trenching results are viewed as very encouraging.

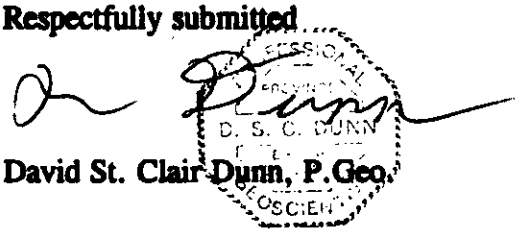
The test magnetometer survey revealed enough magnetic contrast to justify surveying the whole grid with magnetometer and VLF. This will aid in interpreting geology and defining structural orientations.

RECOMMENDATIONS

A Magnetometer - VLF survey should be run over the entire grid. Further trenching should be carried out after road access is constructed. Trenching should be carried out in areas of geochemical anomalies not tested in 1994 and in other non anomalous areas of till, the latter for geological and geomorphological information. Any strong structures outlined in the geophysical survey should also be tested. This program should take six weeks and is estimated to cost $50,000.

If positive results are returned from the trenches a second phase of 1,500 meters of diamond drilling should be undertaken. This second phase is estimated to cost $150,000.

Respectfully submitted



David St. Clair Dunn, P.Geo.

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2.0 INTRODUCTION

This report chronicles the activities of a four man geological field exploration crew employed to explore the Uduk Lake epithermal gold property located in west central British Columbia for Pioneer Metals Corporation from June 4 to August 24, 1994.

2.1 Location and Access

The Uduk Lake property is located approximately 300 kilometers west of Prince George and 65 kilometers south of Burns Lake in west central British Columbia (Figure 1). The property is located at latitude 53° 38' north and longitude 126° 00' west on NTS map sheets 93E/9E and 93F/12W. The Ootsa Lake portion of the Nechako hydroelectric reservoir is eight kilometers to the north east. The boundary of Tweedsmuir Provincial Park is five kilometers to the west.

Access to the Uduk Lake property is by gravel logging road via either Burns Lake or Vanderhoof. From Burns Lake, head south on Highway 35 to the Francois Lake Ferry (leaving the north shore at half past every hour from 5:30 a.m. to 1:30 am daily) and across to Southbank. Continue south approximately 35 kilometers via either the Keel's Landing Road or the Takysie Lake Road to Ootsa Lake, then approximately 35 kilometers southeast to the West Fraser Sawmill's ferry landing on Intata Reach. From the south shore ferry landing, proceed west 20 kilometers to the Chief Main Road, and then south approximately 10 kilometers. The Chief Main and the Wolf Spur road, the latter of which extends on to the property, are expected to be completed by September of 1994, and will provide direct access to the property in the future. From Vanderhoof, head southwest approximately 70 kilometers along the Netchako River road to the Kenny Dam on Knewstubb Lake, and then approximately 55 kilometers west to the West Fraser Sawmill ferry landing as described above. Burns Lake is the closest major supply centre, but gas, limited grocery supplies and lodgings are available at Takysie Lake. Telephones are located at the Francois Lake ferry docks, Takysie Lake and at the Skins River Spillway on the north shore of Ootsa Lake, due north of the Uduk Lake property. West Fraser Sawmills operates a full camp facility near its ferry landing on Intata Reach.


YUKON
N.W.T.
ALBERTA
U.S.A.
Atlin
ATLIN LAKE
Liard
Fort Nelson
Stewart
Smithers
Prince Rupert
Fort St. John
Peace R.
QUEEN CHARLOTTE ISLANDS
EUTSUK LAKE
UDUK LAKE PROPERTY
Prince George
Quesnel
Williams Lake
Fraser River
Columbia River
Revelstoke
Kamloops
Kelowna
Penticton
VANCOUVER ISLAND
VANCOUVER
VICTORIA
British Columbia
0 50 100 200 300 400 km
NTS 93-E/8, F/12
Pioneer Metals Corporation
UDUK LAKE PROPERTY
Omineca M.D., B.C.
General Location Map
Scale noted above
Date Oct. 1994
Figure 1

2.2 Physiography and Climate

The Duk claims cover an area of the Francois Lake Highlands of the Nechako Plateau where topography is subdued due to extensive erosion and deep till cover that reflects thick glacial sheet movement to the northeast. A distinct northeast trending rock drumlin characteristic of the underlying Tertiary felsic rocks bisects the property. Elevations range from 1,090 metres at Uduk Lake to 1,220 metres to the east. Numerous small lakes and interconnected northeast trending swamps cover the property.

The property area hosts natural second growth to mature stands of pine and spruce. Wind fall is very common, possibly due to the poor and clay rich till soil base. The area provides habitat for black bear, grizzly bear, moose, caribou, deer, wolf, fox, coyote, beaver and a range of smaller mammals and waterfowl.

The climate is typical of northern latitudes, with long winters beginning in November until break-up in April. Precipitation is lighter in winter, however, with snowfalls of 0.7 to 1.5 meters. Summers are wetter relative to the rest of the province.

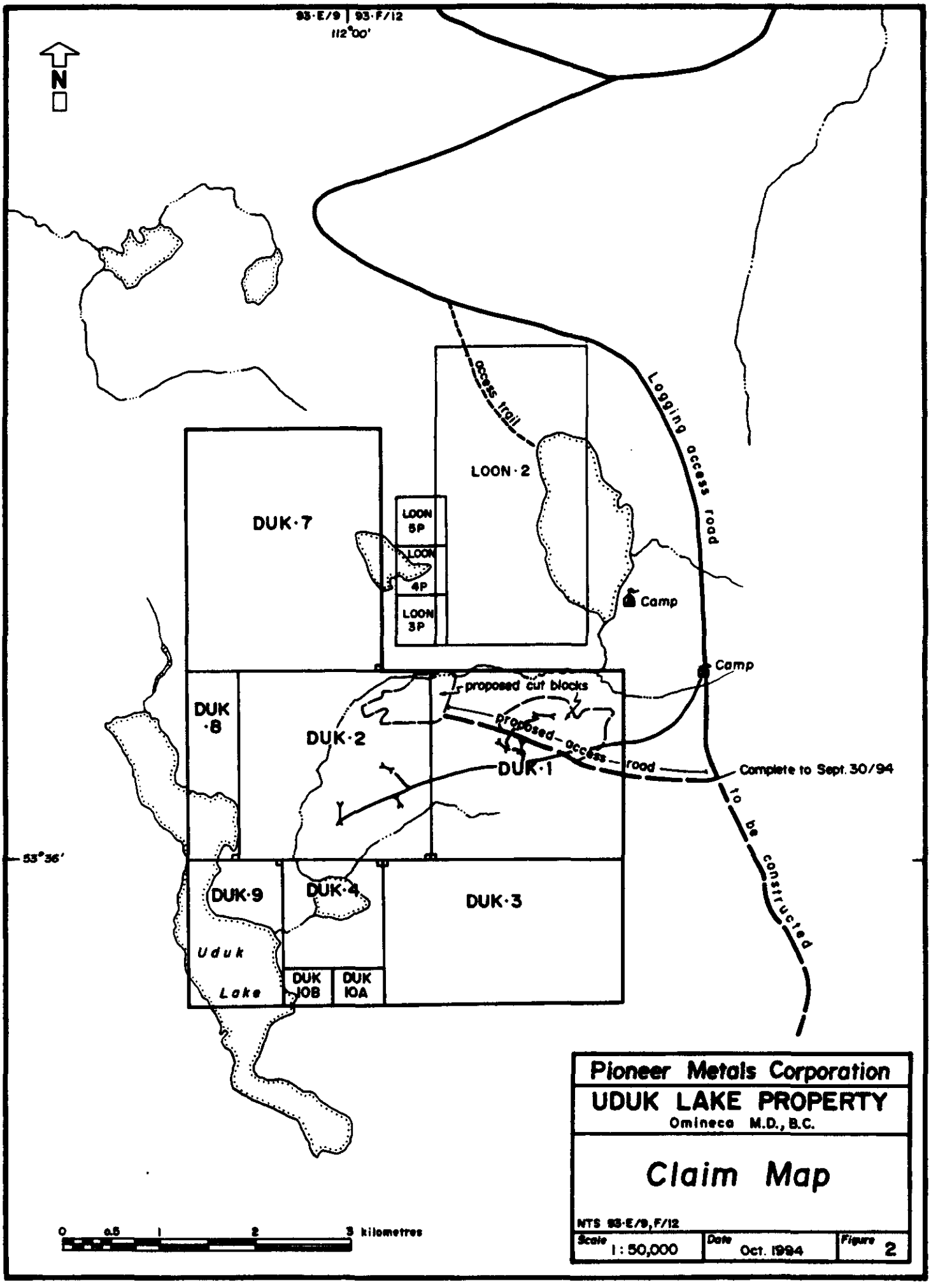
2.3 Property Status

The Duk claim group consists of nine claims totaling 83 units as follows:

Claim Name	Tenure	No. of Units	Recorded	Expiry
Duk 1	238805	16	1984	20/6/2003*
Duk 2	238806	16	1984	20/6/2003*
Duk 3	238807	15	1984	20/6/2003*
Duk 4	239904	4	1988	18/3/2003*
Duk 7	319352	20	1993	16/7/2003*
Duk 8	319353	4	1993	14/7/2003*
Duk 9	319354	6	1993	15/7/2003*
Duk 10A	319348	1	1993	15/7/2003*
Duk 10B	319349	1	1993	15/7/2003*

* subject to approval of this report.

All the Duk claims are covered by an option agreement between Pioneer and Pacific Comox Resources Ltd. Pioneer has the right to earn 70% of the property. The Duk 1-4 are registered in the name of Pacific Comox and the Duk 7, 8, 9, 10A, and 10B are registered in Pioneer's name. Pioneer was the operator of this years program.


93-E/9 | 93-F/12
112°00'
N
access trail
Logging access road
LOON-2
DUK-7
LOON 5P
LOON 4P
LOON 3P
Camp
Camp
proposed cut blocks
proposed access road
DUK-8
DUK-2
DUK-1
Complete to Sept. 30/94
to be constructed
53°36'
DUK-9
DUK-4
DUK-3
Uduk Lake
DUK 10B
DUK 10A
0 0.5 1 2 3 kilometres
Pioneer Metals Corporation
UDUK LAKE PROPERTY
Omineca M.D., B.C.
Claim Map
NTS 93-E/9, F/12
Scale 1:50,000
Date Oct. 1994
Figure 2

2.4 History of Exploration

The Duk property was originally staked in 1980 by Amax Exploration Ltd. who carried out reconnaissance mapping and sampling but allowed the claims to lapse. In 1984 the property was restaked by S. Travis. Asitka Resources Corporation optioned the property and conducted rock and soil geochemical sampling in 1985 and 78 meters of Winkie drilling in three holes in 1986. Values ranged from 20 to 1450 ppb gold in a quartz stringer stockwork zone intersected in drill holes.

Pacific Comox Resources Ltd. optioned the property from Travis in 1987 and in 1988, sub-optioned to Chalice Mining Inc. Chalice conducted a program of line cutting, geological and geochemical surveys, an I.P. survey and 358 meters of diamond drilling in five holes. Chalice did not exercise their option and the property reverted to Pacific Comox. Pioneer optioned the property in 1993 and carried out a $50,000.00 geochemical sampling program of C-horizon soils. This report describes Pioneer's 1994 program that included infill soil sampling, prospecting, geological mapping, and mechanized trenching.

To fulfill Pioneer's annual $100,000 expenditures requirement, a program of trail building, soil sampling, geological mapping prospecting, trenching and subsequent reclamation was undertaken in 1994. A total of 401 grid soil samples, 2 off grid soil samples, 34 prospected rock samples, 333 continuous trench chip samples and 7 petrographic samples were collected an analyzed. Access was established with the cutting of approximately 5.5 kilometers of trail.

2.5 Objectives of the 1994 Exploration Program

The 1994 Uduk Lake exploration program was designed to identify the most favorable lithology and/or structure to host a low grade bulk tonnage gold-silver deposit. This was accomplished in part by:

a) better definition of the Au-Ag-As soil anomalies outlined in 1993;
b) an excavator trenching program in six of the anomalous areas;
c) detailed geological mapping and chip sampling of the trenches;
d) follow-up blasting and chip sampling of the best trench areas'
e) property mapping and prospecting.

3.0 GEOLOGY

The rocks in the area of Uduk Lake are described by Tipper (1962) and Woodworth (1990) and range in age fro late Paleozoic to Recent. The Upper Cretaceous to Eocene Ootsa Lake Group felsic volcanic rocks are the principal lithology present on the Uduk Lake property.

3.1 Regional Geology

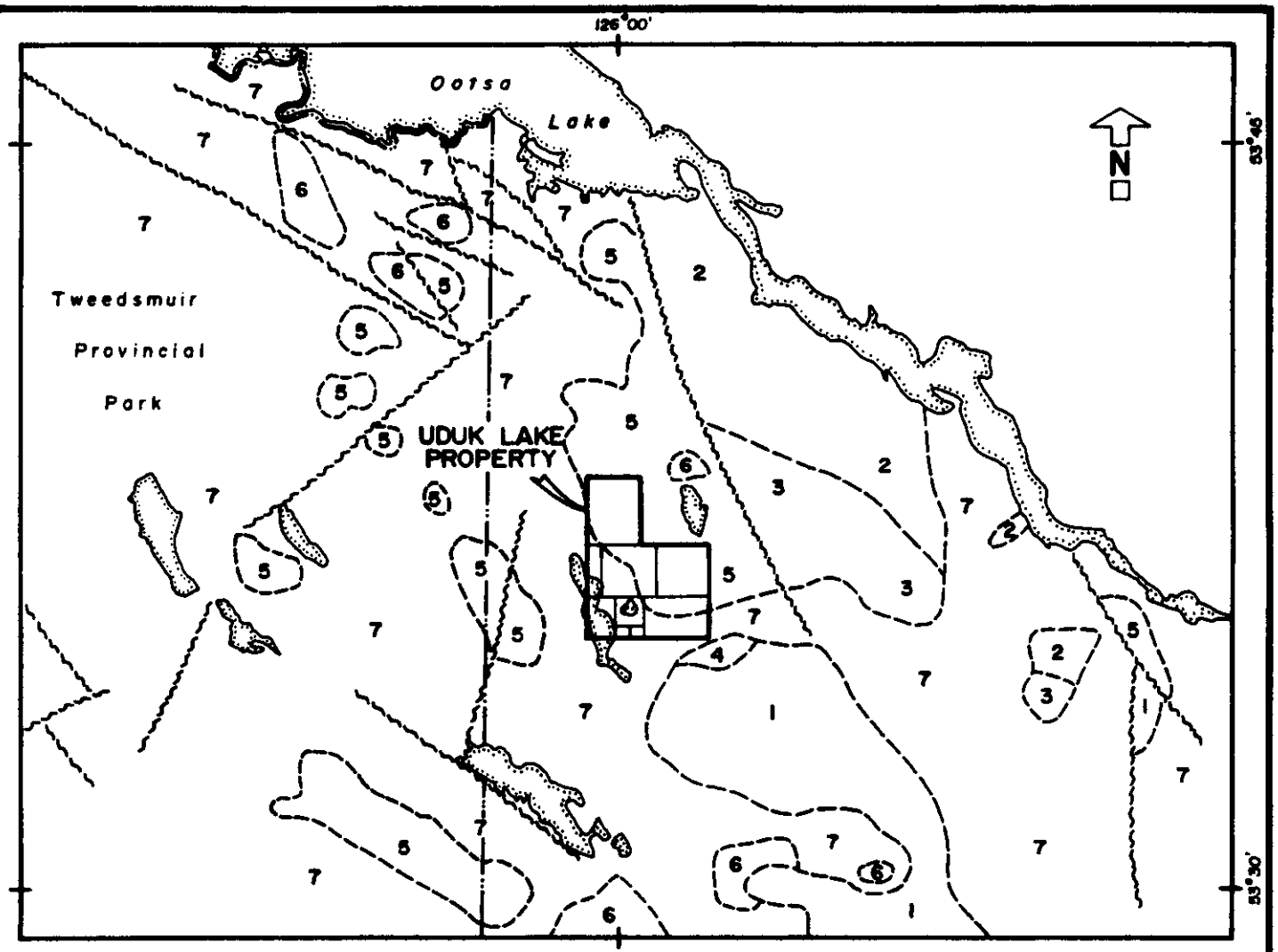
The following summary of the regional geology (Figure 3) as given by Tipper (1962).

> The Upper Triassic and Lower Jurassic Takla Group is characterized by basic volcanic flows, breccias and tuffs with interbedded black argillite, fine greywacke, and minor limestone beds. The marine Middle Jurassic Hazelton group rests unconformably on the Takla Group and similarly is made up of basic volcanic rocks but differs in that the interbedded sedimentary rocks are mainly chert-pebble conglomerate, greywacke, and minor shale or argillite. Upper Jurassic shale and argillite underlie a very small area. The non-marine, Upper Cretaceous to [Eocene] Ootsa Lake Group, resting with angular discordance on Jurassic or Triassic rocks, is divisible into two units — a lower andesite and an upper rhyolite. The Ootsa Lake Group is overlain unconformably by the non-marine, late Tertiary Endako Group, an essentially undeformed succession of basaltic and andesitic plateau lavas, breccias, and tuffs.
>
> The area was overridden by Pleistocene glacier ice which, in it final phases, moved across the area in a direction varying from N40°E to east. Granitic, granodioritic, and dioritic rocks of the Topley Intrusions were emplaced in Early Jurassic time. Late Jurassic or early Cretaceous granitic rocks intrude rocks of the Hazelton and Takla Groups.

3.2 Property Geology

3.2.1 Lithology

Glacially derived overburden obscures more than 98% of the bedrock geology on the Uduk Lake property. The only bedrock lithology observed on the property is of the Maestrichtian(?) to Eocene Ootsa Lake Group trachyte, rhyolite and dacite flows breccia and tuff, hypabyssal intrusions, tuffaceous siltstone, argillaceous siltstone and hetrolithic breccia. (See Appendix V)



QUATERNARY

7 Pleistocene & Recent
glacial, alluvial, & fluvial deposits

TERTIARY

6 Eocene to Lower Miocene
ENDAKO GROUP
massive, vesicular, and amygdaloidal basalt and andesite; minor breccia and tuff

CRETACEOUS (?) & TERTIARY

5 Maestrichtian(?) to Eocene
OOTSA LAKE GROUP
rhyolite and dacite flows, breccia, and tuff; minor andesite, basalt and conglomerate

UPPER JURASSIC and/or CRETACEOUS

4 *granite , quartz diorite, granodiorite & diorite*

MIDDLE and (?) LOWER JURASSIC

3 **HAZELTON GROUP**
andesite, related tuffs & breccias, chert pebble conglomerate, shale & sandstone.

UPPER TRIASSIC and LOWER JURASSIC

2 **TAKLA GROUP**
red & brown shale, conglomerate, & greywacke

1 *andesitic & basaltic flows, tuffs, & breccias; interbedded argillite & minor limestone.*

Compiled from : GSC Memoir 324 (H.W. Tipper)
GSC O.F. 708 (G.J. Woodsworth)

0 5 10 15
kilometres

NTS 93-E/9, F/12

Pioneer Metals Corporation

UDUK LAKE PROPERTY
Omineca M.D., B.C.

Regional Geology Map

Scale	Date	Figure
1:250,000	Oct. 1994	3

3.2.2 Structure

The main regional structural trends are 130° and 160°. These trends have been offset by northeast trending structures at 50° with a minor trend at 10°. On a property scale, in Trench 94-1, a 6° to 15° joint and vein set is most prominent. In Trench 94-3 this northerly trend is present but an east-west series of aphanitic quartz stringers are most prominent. In Trench 94-4 the northerly trend is dominant. In Trench 94-5 very few structures are apparent and those mainly trend northerly. In Trench 94-6, again the northerly trend is dominant. Further trenching, with detailed mapping, will be needed to arrive at a clear picture of structural controls on the property. A magnetometer/ VLF survey should be carried out to aid in structural interpretation.

3.2.3 Mineralization

The main mineralization of interest on the Uduk Lake property is silicification associated with pyrite and sericite. Many areas have undergone two or three stages of silicification. Cryptocrystalline cherty quartz replacement is followed by progressively coarser grained quartz and quartz stringers. Pyrite is present in all stages, but pyrite content does not correlate with gold content. Maximum pyrite content is 2% but, generally, it is much lower, less than 0.5%. Some K-feldspar has also been introduced, mainly as rims on plagioclase. Sericite is present as an alteration mineral and also introduced, in veinlets with quartz.

In summary, gold-silver-arsenic mineralization appears to be associated with areas of more intense, multiple stage silicification and brecciation. Sulphide mineralization, mainly pyrite, with very minor bornite, does not correlate with better gold-silver values.

4.0 EXPLORATION AND DEVELOPMENT

4.1 Access Trail

From June 4, 1994 until June 28, 994 an access trail was constructed from the end of the Chief Main logging road into the area of interest, roughly 5.5 kilometers. Initially, the trail was constructed to accommodate an eight wheeled all terrain vehicle. Later the trail was widened to accommodate a Hyundai Ex 130 LC excavator. An effort

was made to minimize damage to merchantable timber by following clear areas and swamps. In spite of this, and the fact that all wood was cut for mining purposes, a $5,986.91 stumpage bill was received from the Ministry of Forests.

4.2 Geochemistry and Prospecting

Four hundred one soil samples were taken at 25 meter sample spacing on 100 meter spaced lines. The samples were taken at 50 cm to 75 cm depth in C horizon soil or glacial till. This sampling was undertaken to fill in a previous soil sample grid which had a line spacing of 200 meters. Samples were collected in gusseted Kraft bags and shipped to Echo Teck Laboratories Ltd. in Kamloops. A ten gram sample was analyzed by fire assay and Atomic Absorption for gold and a one gram sample analyzed by I.C.P. for 30 elements (See Appendix IV). Results are plotted on Maps 2, 3, and 4. In general the results confirmed and extended the anomalies from the 1993 program.

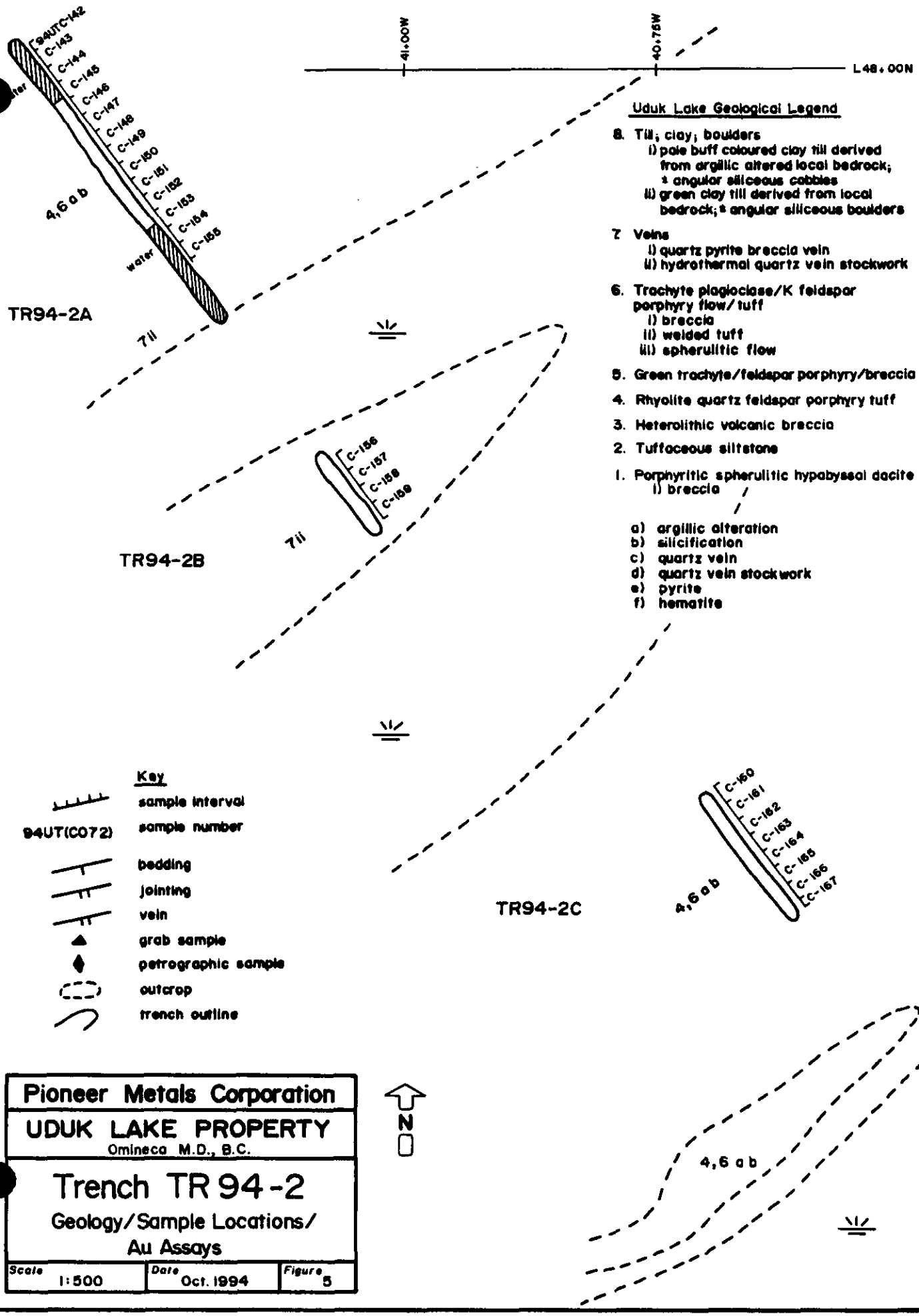
In conjunction with the soil sampling, reconnaissance geological mapping and prospecting was carried out on the same grid. Sample locations are plotted on Map 1 and Sample Descriptions are contained in Appendix III.

4.3 Trenching and Sampling

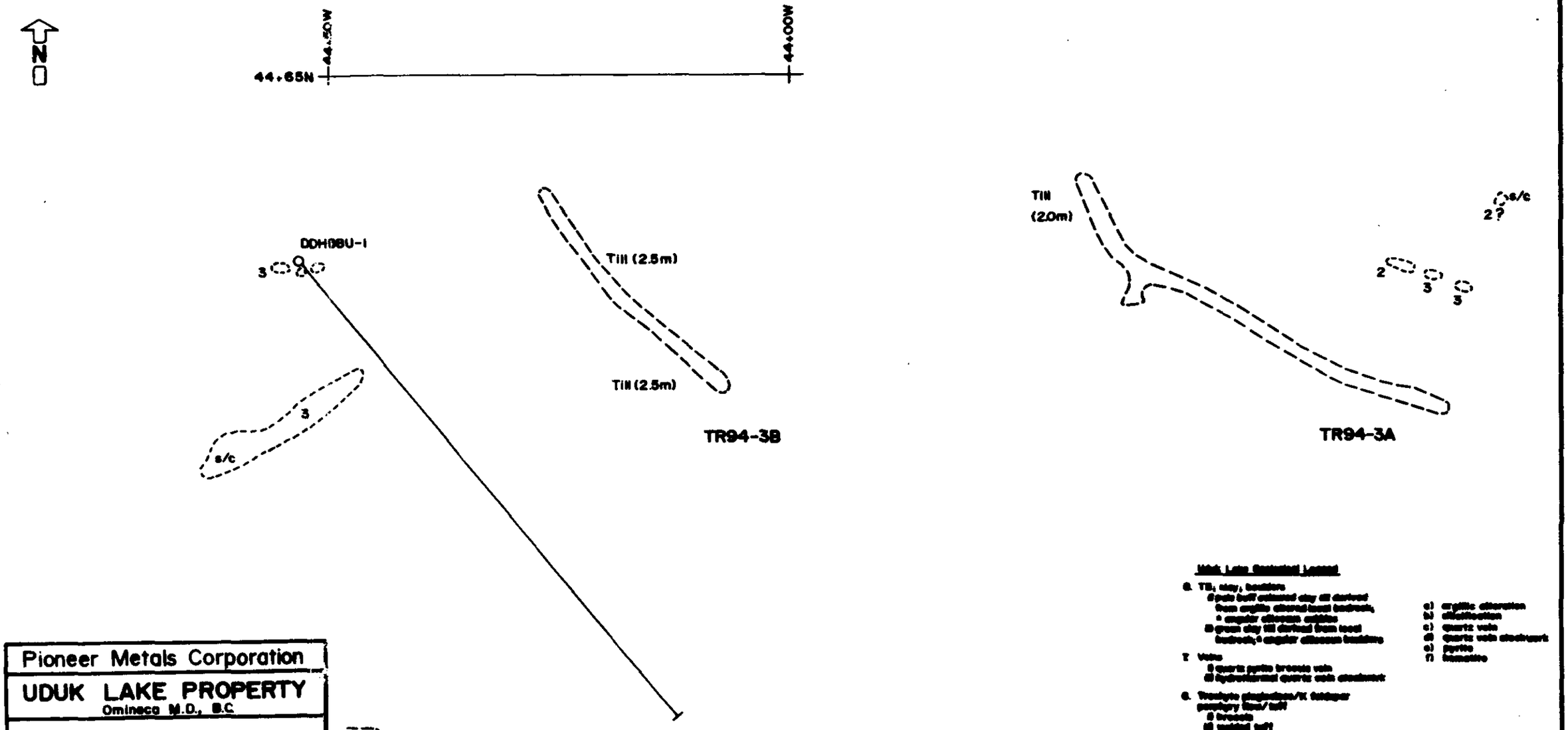
A Hyundai Ex 130 LC excavator was mobilized into the area of interest and six trenches totalling 424 meters were dug to bedrock, cleaned, swept and chip sampled at 1.0 meter to 2.0 meter sample lengths. The geology of the trenches was mapped in detail (1:200 to 1:500 Scale — See Figs. 4 - 10).

260 samples were shipped to Eco Tech Laboratories in Kamloops, and a 1 tonne fine assay with atomic absorption finish was carried out for gold and silver analyses. All areas of the trenches which assayed over 100 ppb gold were then drilled with a Pyonjar gas powered drill approximately 0.6 meters deep every 0.5 to 1.0 meter, blasted, cleaned and resampled. The 73 samples from this phase were also shipped to Echo Tech and the same assay procedure followed.

In general, the rocks encountered in the trenches were variously silicified and pyritized felsic volcanics. The highest values encountered were six meters of 1.4 gm/t gold in a silicified Rhyolite breccia in Trench #4.



Pioneer Metals Corporation		
UDUK LAKE PROPERTY Omineca M.D., B.C.		
Trench TR 94-2 Geology/Sample Locations/ Au Assays		
Scale 1:500	Date Oct. 1994	Figure 5

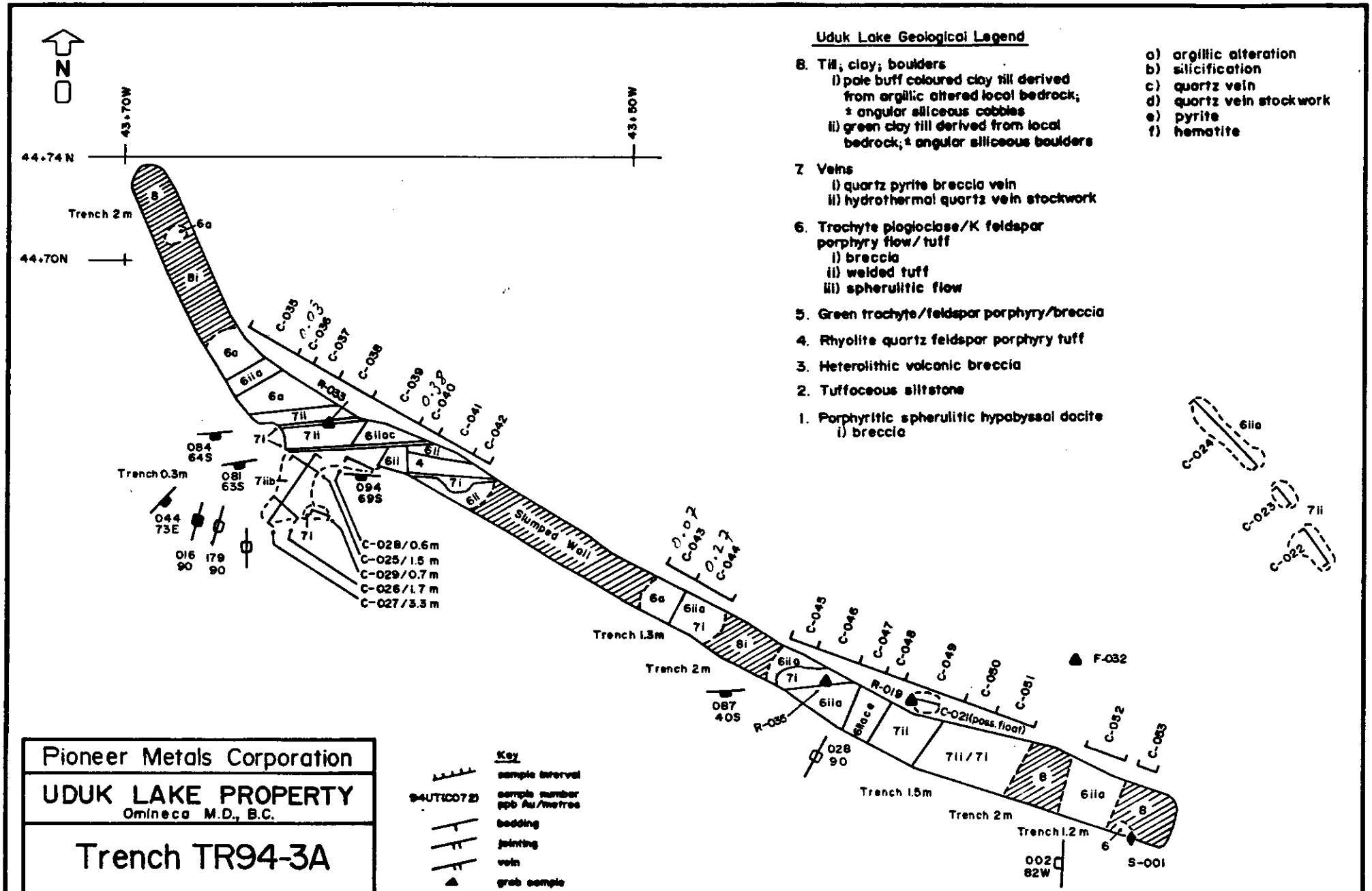


Pioneer Metals Corporation

UDUK LAKE PROPERTY
Omineca M.D., B.C.

TR94-3A/TR94-3B

Scale	Date	Figure
1:500	Oct. 1994	6



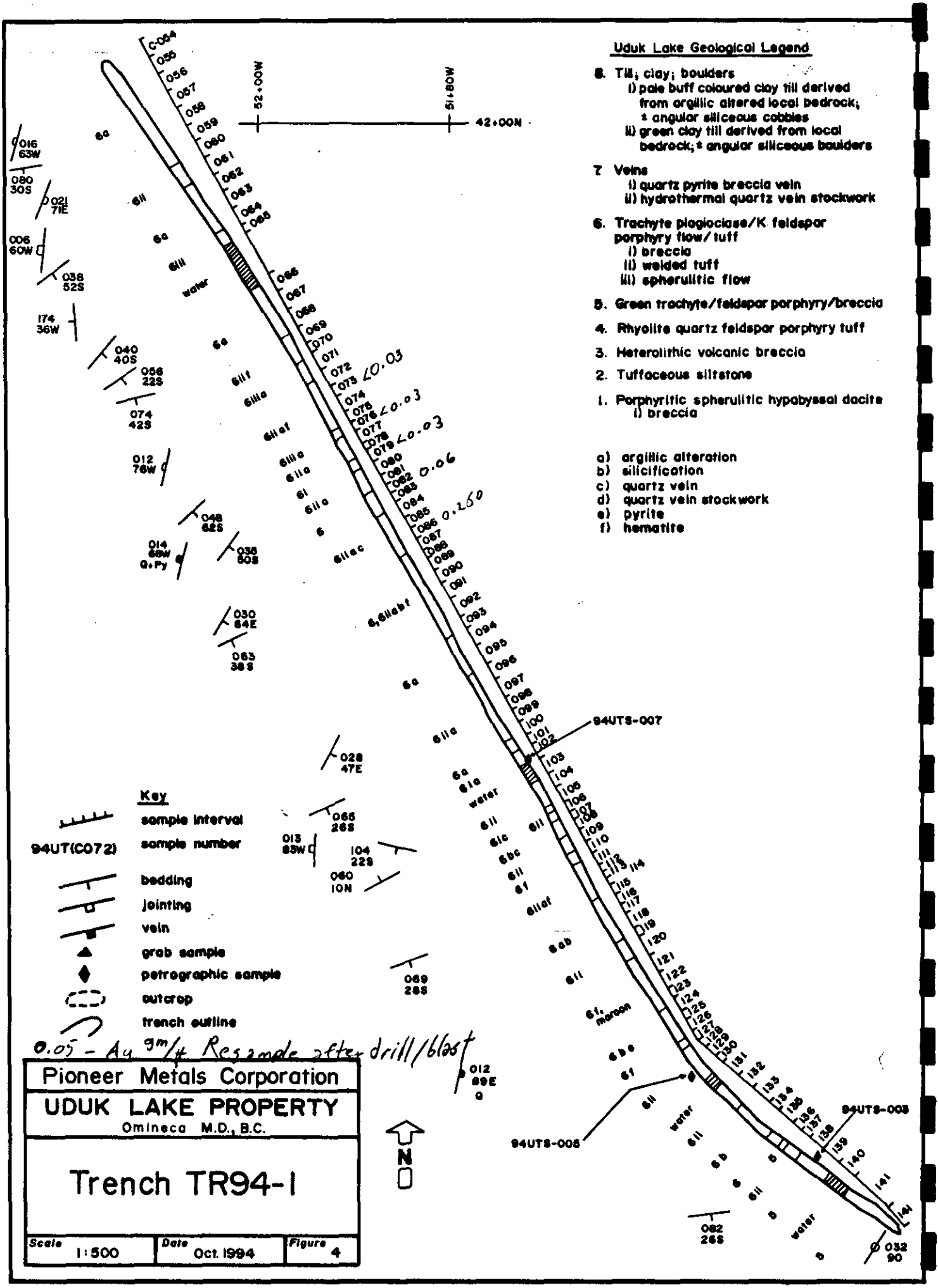
Uduk Lake Geological Legend

8. Till; clay; boulders
   - i) pale buff coloured clay till derived from argillic altered local bedrock; ± angular siliceous cobbles
   - ii) green clay till derived from local bedrock; ± angular siliceous boulders
7. Veins
   - i) quartz pyrite breccia vein
   - ii) hydrothermal quartz vein stockwork
6. Trachyte plagioclase/K feldspar porphyry flow/tuff
   - i) breccia
   - ii) welded tuff
   - iii) spherulitic flow
5. Green trachyte/feldspar porphyry/breccia
4. Rhyolite quartz feldspar porphyry tuff
3. Heterolithic volcanic breccia
2. Tuffaceous siltstone
1. Porphyritic spherulitic hypabyssal docite
   - i) breccia

a) argillic alteration
b) silicification
c) quartz vein
d) quartz vein stockwork
e) pyrite
f) hematite

Pioneer Metals Corporation		
UDUK LAKE PROPERTY Omineca M.D., B.C.		
Trench TR94-3A		
Scale 1: 200	Date Oct. 1994	Figure 7

0.05 - 9 m/t Au - Resample after drill/blast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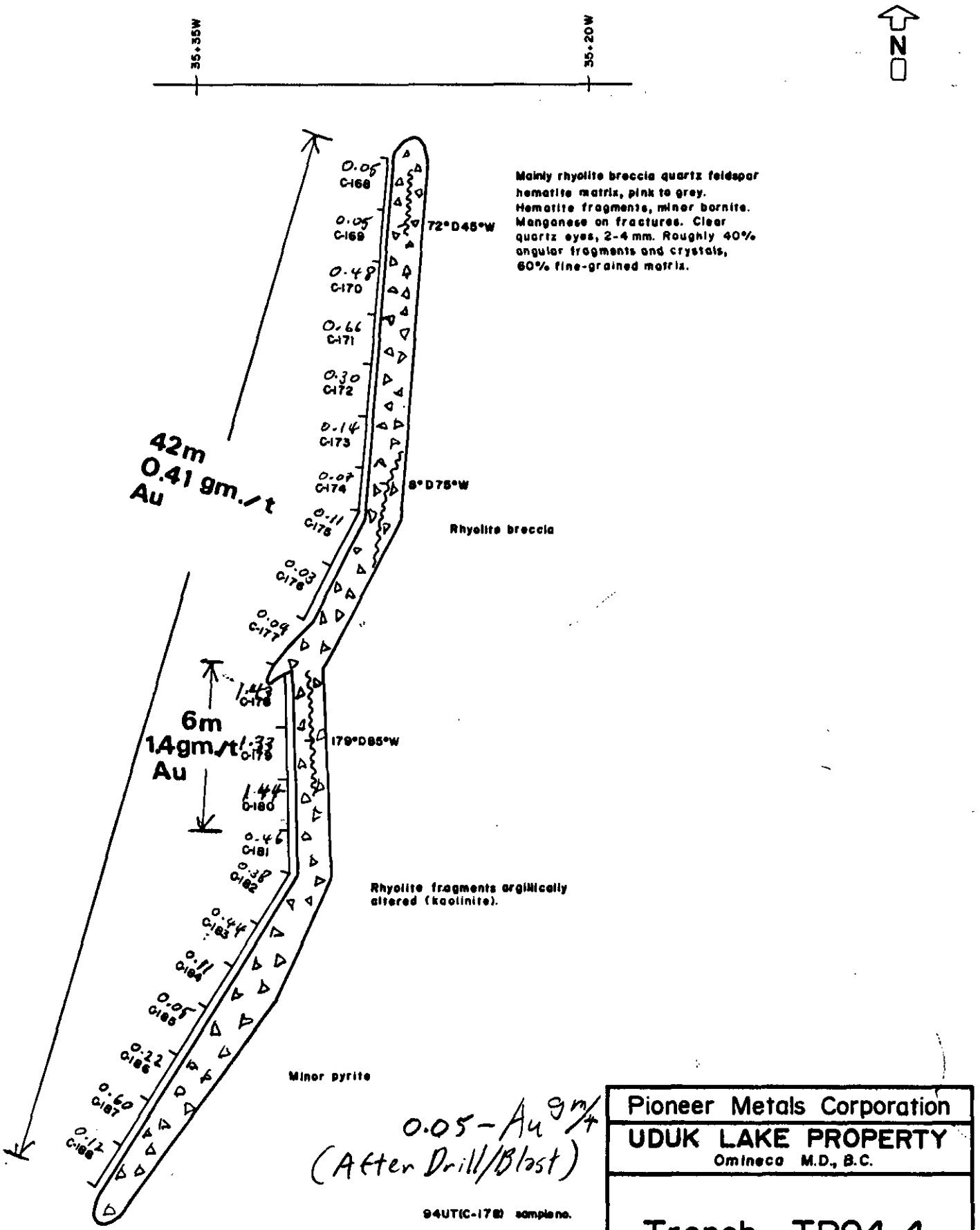
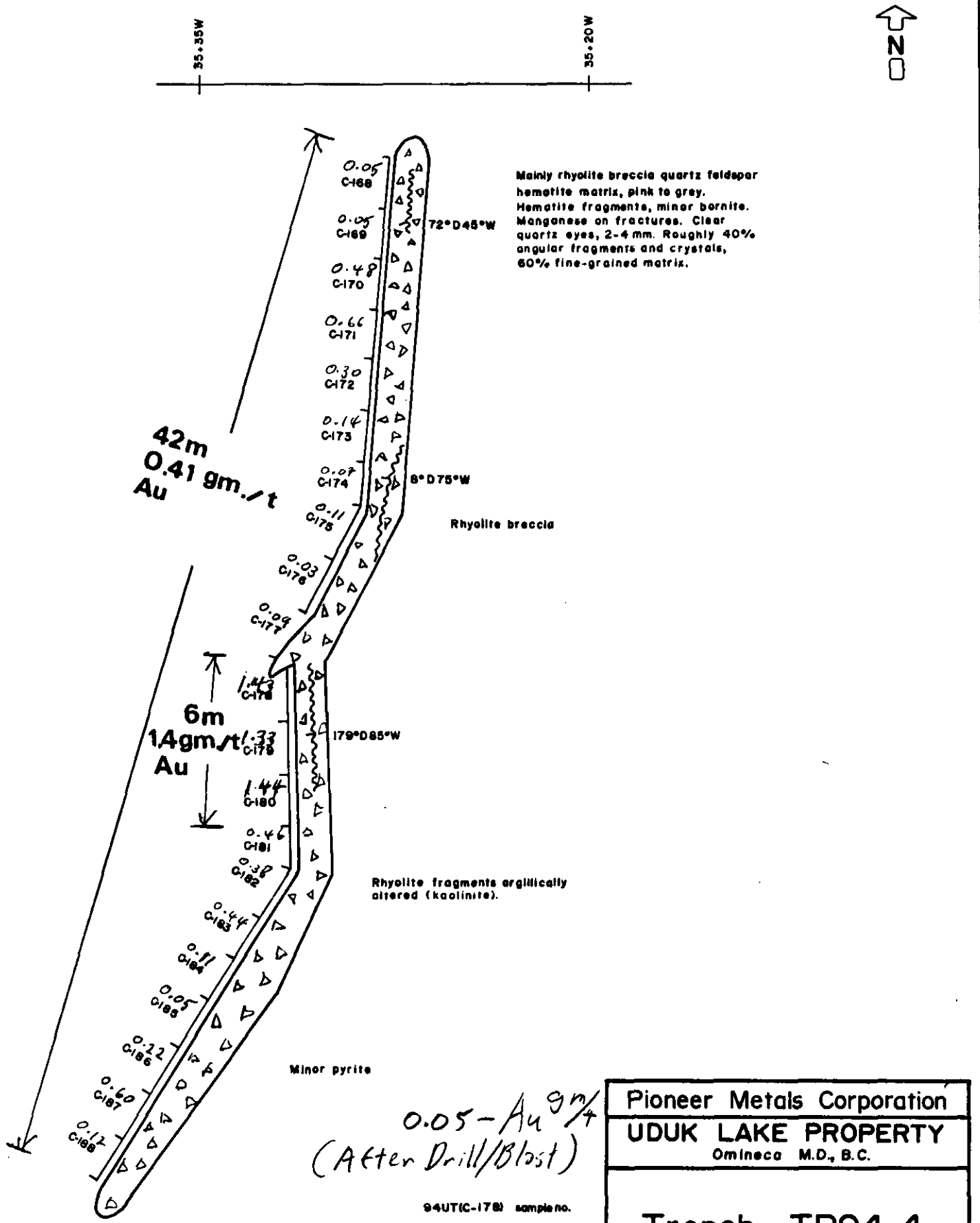
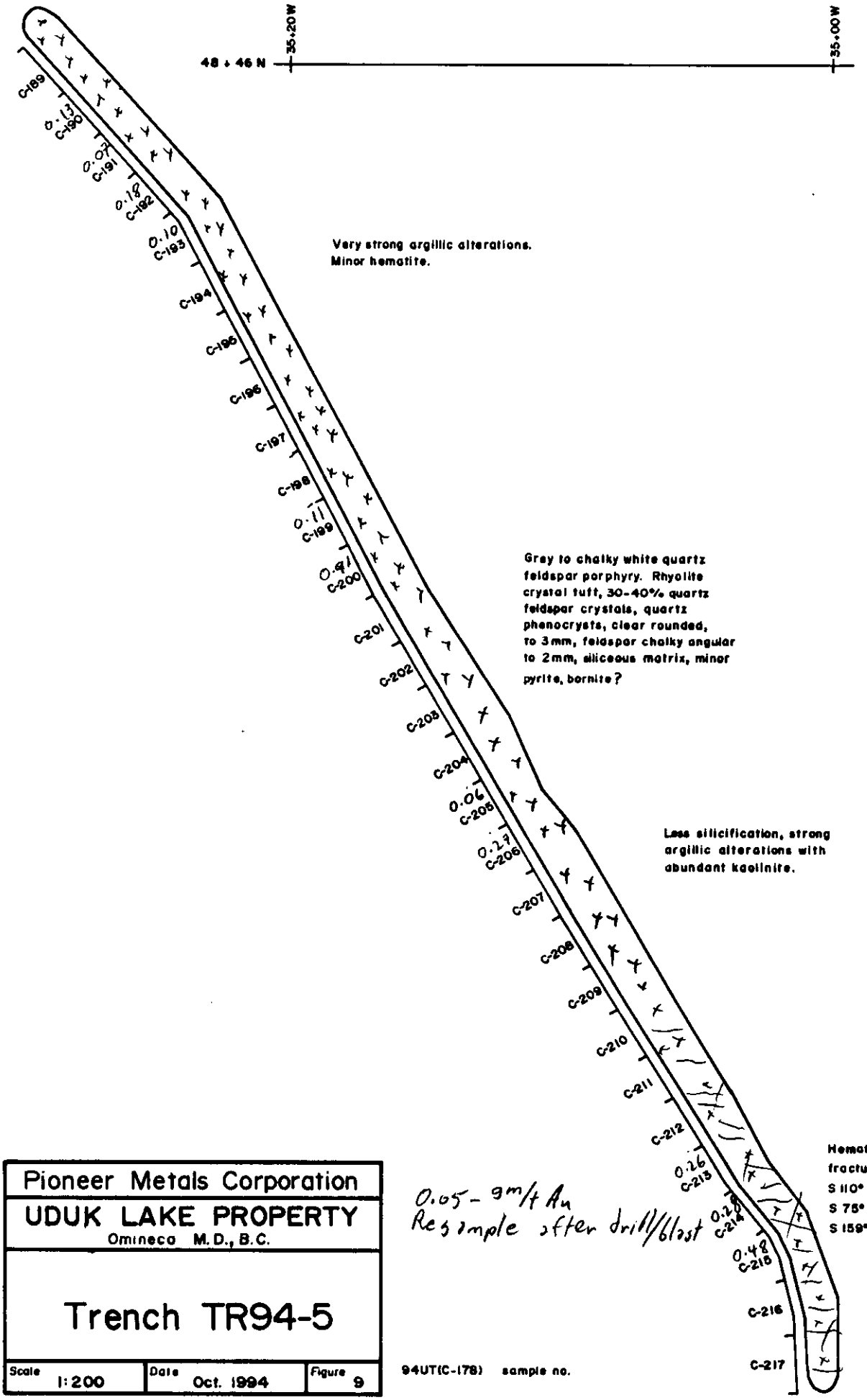
4. Rhyolite quartz feldspar porphyry tuff
3. Heterolithic volcanic breccia
2. Tuffaceous siltstone
1. Porphyritic spherulitic hypabyssal dacite
i) breccia
a) argillic alteration
b) silicification
c) quartz vein
d) quartz vein stockwork
e) pyrite
f) hematite
52+00W
51+80W
42+00N
94UTS-007
94UTS-005
94UTS-003
Key
sample interval
94UT(C072) sample number
bedding
jointing
vein
grab sample
petrographic sample
outcrop
trench outline
0.05 - Au gm/t Re-sample after drill/blast
Pioneer Metals Corporation
UDUK LAKE PROPERTY
Omineca M.D., B.C.
Trench TR94-1
Scale 1:500
Date Oct. 1994
Figure 4



Pioneer Metals Corporation		
UDUK LAKE PROPERTY Omineca M.D., B.C.		
Trench TR94-4		
Scale 1:200	Date Oct. 1994	Figure 8



Pioneer Metals Corporation		
UDUK LAKE PROPERTY Omineca M.D., B.C.		
Trench TR94-4		
Scale 1:200	Date Oct. 1994	Figure 8



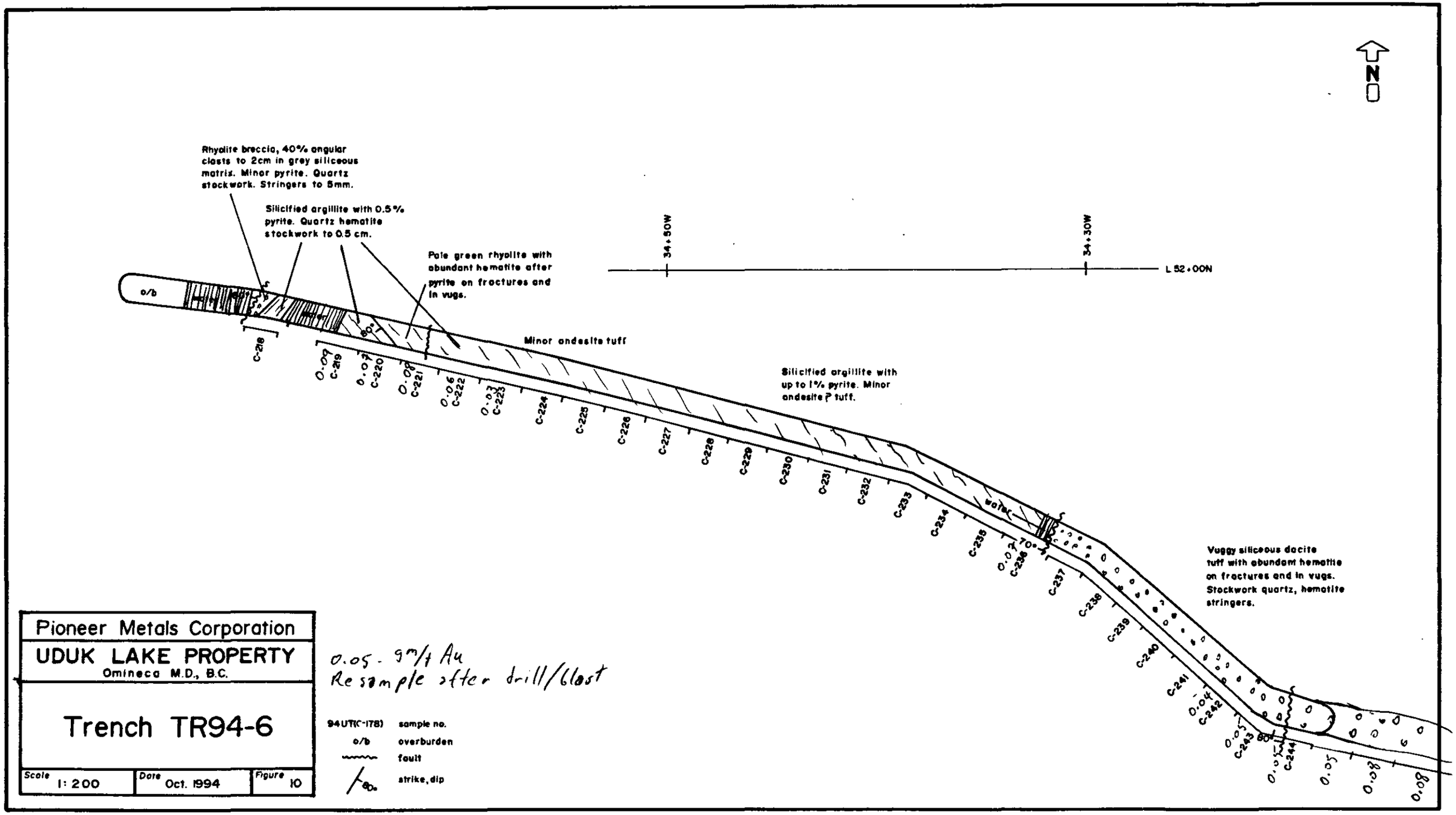
Pioneer Metals Corporation

UDUK LAKE PROPERTY

Omineca M.D., B.C.

Trench TR94-5

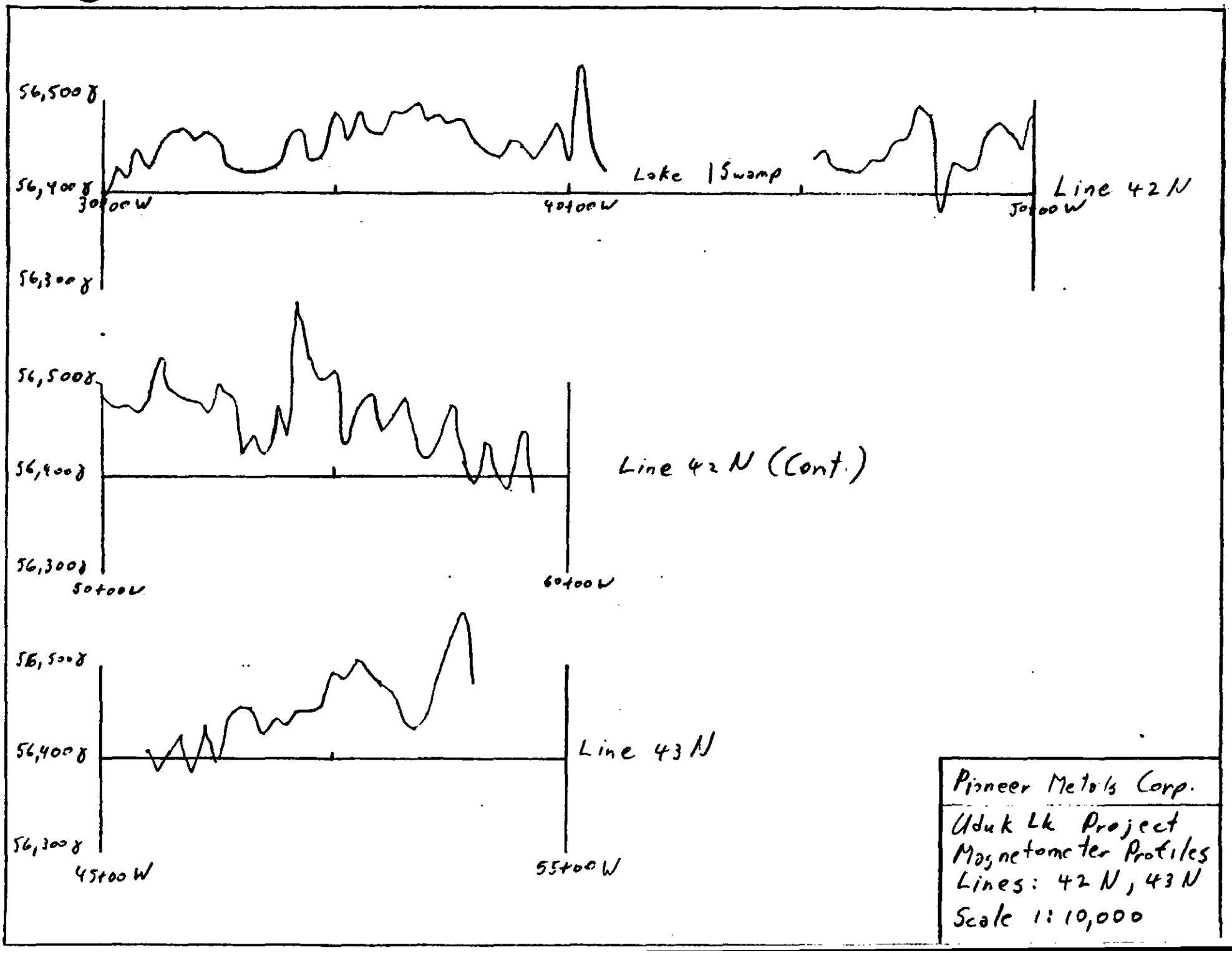
Scale	Date	Figure
1:200	Oct. 1994	9


N
Rhyolite breccia, 40% angular clasts to 2cm in grey siliceous matrix. Minor pyrite. Quartz stockwork. Stringers to 5mm.
Silicified argillite with 0.5% pyrite. Quartz hematite stockwork to 0.5 cm.
Pale green rhyolite with abundant hematite after pyrite on fractures and in vugs.
34+50W
34+30W
L 52+00N
o/b
60°
Minor andesite tuff
Silicified argillite with up to 1% pyrite. Minor andesite ? tuff.
water
70°
Vuggy siliceous dacite tuff with abundant hematite on fractures and in vugs. Stockwork quartz, hematite stringers.
C-218
C-219
C-220
C-221
C-222
C-223
C-224
C-225
C-226
C-227
C-228
C-229
C-230
C-231
C-232
C-233
C-234
C-235
C-236
C-237
C-238
C-239
C-240
C-241
C-242
C-243
C-244
0.09
0.01
0.08
0.06
0.03
0.07
0.04
0.05
0.05
0.08
0.08
Pioneer Metals Corporation
UDUK LAKE PROPERTY
Omineca M.D., B.C.
Trench TR94-6
Scale 1: 200
Date Oct. 1994
Figure 10
0.05 - 9m/t Au
Resample after drill/blast
94UTC-178) sample no.
o/b overburden
fault
strike, dip

Following blasting and resampling of the trenches, the trenches and access road were leveled and seeded. The areas greater than 100 ppb Au were left open to aid in further work on the property.

4.4 Geophysics

A magnetometer test survey was run over two lines to see if magnetic contrast was great enough to justify surveying the whole grid. Results are recorded as profiles on Fig. 11. Maximum contrast was 200 gammas. Although this contrast is not very great, a combined magnetometer - VLF survey should aid in mapping geology and defining major structures.


56,500 γ
56,400 γ
56,300 γ
30+00 W
40+00 W
Lake / Swamp
Line 42 N
56,500 γ
56,400 γ
56,300 γ
50+00 W
60+00 W
Line 42 N (Cont.)
56,500 γ
56,400 γ
56,300 γ
45+00 W
55+00 W
Line 43 N
Pioneer Metals Corp.
Uduk Lk Project
Magnetometer Profiles
Lines: 42 N, 43 N
Scale 1:10,000

APPENDIX I

Statements of Qualifications

I, David St. Clair Dunn, with a business address of 2348 Palmerston Avenue, West Vancouver, British Columbia, V7V 2W1, declare that:

1. I am a professional Geoscientist registered under the Professional Engineers and Geoscientists Act of the Province of British Columbia;

2. I am a Fellow of the Geological Association of Canada;

3. I am a member of the Association of Exploration Geochemists.

4. I have practiced my profession as a prospector and geologist for more than 20 years in Canada, U.S.A. and Australia;

5. I supervised the work program on the Uduk Lake Property described in this report;

6. I am Vice President - Exploration for Pioneer Metals Corp.

David St. Clair Dunn, P.Geo.

/jwg/PIONEER/dunn

APPENDIX II

Statements of Expenditure

Statement Of Costs

Wages:		
D. Tupper 42.2 days @ $250/day	$10,550.00	
D. Dunn 34.5 days @ $250/day	8,625.00	
G. Mowatt 68 days @ $200/day	13,600.00	
C. MacDonald 61 days @ $125/day	7,625.00	
J. Delaney 33 days @ $125/day	4,125.00	
W. Amara 49 days @ $125/day	6,125.00	
		$50,650.00
Geochemical Analysis:		
403 soil samples at $15.10/samples	6,085.30	
367 rock samples at $21.75/sample	7,982.75	
		$14,068.05
Petrographic Analysis:		$740.17
Equipment Rental:		
Excavator 112 hrs. @ $93/hr.		$11,144.90
Radio 2.5 months		182.96
Chain Saw		300.00
Truck Rentals		7,376.54
Argo Rental and Trailer		3,979.94
Drill Rentals 52 days @ $25/day + GST		1,391.00
Room and Board:		
287 days @ $40/day		11,480.00
Explosives		620.88
Transportation		551.38
Expendables and Small Tools		4,305.35
Recording Fees		2,490.00
PROJECT TOTAL 1994		$109,281.17

APPENDIX III

Sample Descriptions

OC SA PL

(1)

Project: Uduk Lake (Pioneer Metals Corp)	Results Plotted By:		
Area (Grid):	Map:	NTS:	
Collector: D.T Tupper	Date: June/94	Surface:	Underground:

SAMPLE NO.	LOCATION NOTES	SAMPLE TYPE/LENGTH	ROCK TYPE	SAMPLE DESCRIPTION	ASSAYS				
					Au (ppb)	Au (oz/ton)	As (ppm)		
94UTR-001	51+90N/34+25W	GRAB	RHYL/QS	Fillapr-porphyry/minor qtz veins/ 0.2-0.5% cubic Py					
94UTF-002	50+00N/38+25W (site of 92KUR-044)	FLOAT	QFP	Quartz-Fold. Porph/minor qtz vns silicified/ grey-green					
94UTR-003	48+40N/35+00W	GRAB	QFP	Qt-Fold Porph/1% Qt Stringers (poss breccia/agglom)					
94UTR-004	51+80N/34+80W	GRAB (?)	QFP/QS	Qt-Fold Porph/Qt. Stockwork tr. Py (poss. Subcrop)					
94UTR-005	45+50N/33+75W	GRAB	QFP/Qt	Qt Fold Porph/Qt Vn/tr Py					
94UTR-006	41+25N/52+50W	GRAB (?)	RHYL	Flow banded rhyolite/Qt-Fold porph/silicified (poss. float)					
94UTR-007	42+75N/52+50W	GRAB	RHYL	Argillic altered ~~Qt~~ RHYL/ silicified					
94UTF-008	" "	FLOAT	Qt. BX	Qt. Stockwork breccia argillic alteration.					
94UTF-009	41+00N/51+50W	FLOAT	RHYL/QS	RHYL / Qt. Stockwork					
June 17/94									
94UTR-010	44+75N/43+10W	GRAB	Qt Stkwk	Qt. Stockwork/argillic alteration.					

DC SA LL

(3)

Project:	Uduk Lake	Results Plotted By:		
Area (Grid):		Map:	NTS:	
Collector:	DWT	Date: June/94	Surface:	Underground:

SAMPLE NO.	LOCATION NOTES	SAMPLE TYPE/LENGTH	ROCK TYPE	SAMPLE DESCRIPTION	ASSAYS				
					Au (ppb)	Au (oz/ton)	As (ppm)		
94UTR-011	39+70N/52+00W	GRAB	Q.S.	Qt. Stockwork					
94UTC-012	41+95N/41+70W	CHIP/1.0m	RHYL/QS	RHYL/Qt Stockwork					
94UTF									
June 18/94									
94UTF-013	~38+00N/59+50W	FLOAT	RHYL/QS	RHYL/Qt Stockwork					
94UTF-014	~38+00N/61+50W	FLOAT	" "	" " "					
94UTF-015	east shore Uduk Lake	FLOAT	RHYL/Qt	Intensely silicified RHYL (?)					
94UTR-016	~37+40N/62+75W	GRAB (?)	X-tal Tuff	Maroon crystal tuff/intense manganese alt'n./minorqt.					
94UTF-017	~37+[illegible]0N/62+75W	FLOAT	RHYL/Qt	Banded RHYL (flow?)/Qt breccia.					
94UTF-018	~37+10N/62+75W	FLOAT	RHYL/QS	RHYL/Qt. Stockwork/fn Py rusty, white-grey banded					
June 19/94									
94UTR-019	44+50N/42+90W	GRAB (?)	Q.S.	Qt. Stockwork/fine fn Py					
94UTF-020	44+00N/43+60W	FLOAT	Qt. S.	Qt. Stockwork/ruggy/fn Py					
94UTC-021	44+40N/43+20W	CHIP/1.0m	QFP/QS.	Qt. Feldspar Porph/argillic alteration/Qt. Stockwork					
94UTC-022	44+55N/43+15W	CHIP/3.6m	"	" " " " fn. Py					

OC SAMPLE

(3)

Project: Uduk Lake	Results Plotted By:		
Area (Grid):	Map:	NTS:	
Collector: DWT	Date: June/94	Surface:	Underground:

SAMPLE NO.	LOCATION NOTES	SAMPLE TYPE/LENGTH	ROCK TYPE	SAMPLE DESCRIPTION	ASSAYS Au (ppb)	Au (oz/ton)	As (ppm)		
94UTC-023	44+50N/43+15W	CHIP/0.9m	QFP/QS	Qt. Feldspar porph/argillic alt'd Qt Stockwork					
94UTC-024	44+45N/43+12W	CHIP/1.7m	"	" " " "					
June 26/94									
94UTC-025	44+50N/42+65W	CHIP/1.5m	RHY/BX/QS	RHYL Breccia/Qt Stockwork					
94UTC-026	" "	CHIP/1.7m	" " "	" " " "					
94UTC-027	" "	CHIP/3.3m	" " "	" " " "					
June 22/94									
94UTC-028	44+50N/42+65W	CHIP/0.6m	QS/RHY/BX	Qt. Stockwork/tr. Py/RHYL Breccia.					
94UTC-029	" "	CHIP/0.7m	" "	" " " " " "					
94UTF-030	48+00N/45+25W	FLOAT	QFP/BX	Qt Feld Porph/minor Qt Jasperoid Vn.					
94UTR-031	48+00N/44+00W	GRAB	Feld. Porph	Argillic alt'd feldspar porph (with black speckles)					
June 28/94									
94UTF-032	44+40N/43+20W	FLOAT	Qt Vn	15cm grey Qt Vn with RHYL frag					
June 29/94									
94UTR-033	@38m in Trench B-1	GRAB	Qt Py Vn	Dk. grey qt. vn (0.4cm) 0.2-2% Py					

APPENDIX IV

Assays

12-Jul-94

ECO-TECH LABORATORIES LTD.
10041 East Trans Canada Highway
KAMLOOPS, B.C.
V2C 2J3

Phone: 604-573-5700
Fax : 604-573-4557

PIONEER METALS CORPORATION ETK 94-379
1770-401 W.Georgia Street
VANCOUVER, B.C.
V6B 5A1

ATTENTION: David Tupper

47 SOIL samples received June 28, 1994

Shipment #: 2
Project #: Uduk Lake

Values in ppm unless otherwise reported

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	K %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	U94 L39N:50+00W	<.2	0.99	20	80	<5	0.12	<1	3	9	10	2.02	0.55	<10	0.13	411	3	0.02	2	140	28	<5	40	17	0.05	<10	17	<10	6	100
2	U94 L39N:50+25W	<.2	0.96	15	85	<5	0.12	<1	5	16	11	1.73	0.23	<10	0.19	187	1	0.01	5	130	20	<5	60	16	0.13	<10	36	<10	4	94
3	U94 L39N:50+50W	<.2	0.69	30	60	<5	0.13	<1	3	8	7	1.43	0.44	<10	0.11	145	7	0.02	2	170	24	<5	60	15	0.04	<10	16	<10	8	84
4	U94 L39N:50+75W	0.6	1.87	30	145	<5	0.12	<1	7	15	7	2.49	0.04	<10	0.17	190	3	<.01	8	840	10	<5	40	13	0.05	<10	43	10	2	223
5	U94 L39N:51+00W	<.2	1.20	25	100	<5	0.10	<1	5	13	7	2.24	0.16	<10	0.12	233	7	0.01	5	320	12	<5	40	10	0.06	<10	39	<10	2	70
6	U94 L39N:51+25W	0.2	0.77	10	80	<5	0.10	<1	2	5	5	1.22	0.44	<10	0.05	375	1	0.01	<1	370	10	<5	40	8	0.03	<10	15	<10	4	81
7	U94 L39N:51+50W	0.2	1.14	20	100	<5	0.15	<1	5	14	9	2.00	0.25	<10	0.17	285	3	0.02	5	340	14	<5	40	17	0.08	<10	36	<10	5	80
8	U94 L39N:51+75W	0.4	1.03	30	55	<5	0.16	<1	5	4	10	1.61	0.64	<10	0.13	292	7	0.02	4	340	28	<5	40	19	0.02	<10	15	<10	5	75
9	U94 L39N:52+00W	0.6	1.16	10	90	<5	0.08	<1	4	10	14	1.36	0.33	<10	0.10	232	2	<.01	2	410	12	<5	40	8	0.05	<10	24	<10	4	111
10	U94 L39N:52+25W *	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	U94 L39N:52+50W	0.2	1.64	30	135	<5	0.16	<1	7	5	27	1.18	0.50	<10	0.09	461	8	0.01	3	950	16	<5	20	15	<.01	<10	15	<10	4	167
12	U94 L39N:52+75W	<.2	0.94	10	55	<5	0.20	<1	2	7	7	1.02	0.57	<10	0.09	193	<1	0.03	1	110	20	<5	20	22	0.03	<10	8	<10	16	39
13	U94 L39N:53+00W	<.2	2.23	20	145	<5	0.24	<1	6	24	12	1.86	0.25	<10	0.21	186	1	0.02	9	540	4	<5	<20	30	0.03	<10	37	<10	13	62
14	U94 L39N:53+25W	<.2	1.86	20	125	<5	0.58	<1	8	29	15	2.35	0.20	<10	0.44	166	<1	0.02	12	830	8	<5	<20	39	0.12	<10	39	<10	10	73
15	U94 L39N:53+50W	<.2	1.23	10	120	<5	0.31	<1	6	18	12	1.89	0.05	<10	0.25	182	<1	0.01	7	640	8	<5	<20	31	0.14	<10	37	<10	5	42
16	U94 L39N:53+75W	<.2	1.40	10	125	<5	0.26	<1	7	16	13	1.90	0.03	<10	0.27	239	<1	0.01	8	620	6	<5	<20	23	0.15	<10	39	<10	4	43
17	U94 L39N:54+00W	<.2	1.46	15	150	<5	0.33	<1	8	23	15	2.05	0.10	<10	0.34	248	<1	0.02	9	730	8	<5	<20	32	0.16	<10	41	10	5	40
18	U94 L39N:54+25W	<.2	1.47	20	140	<5	0.27	<1	7	20	13	1.94	0.06	<10	0.25	196	<1	0.01	9	640	6	<5	<20	27	0.14	<10	39	<10	5	36
19	U94 L39N:54+50S	<.2	1.65	20	160	<5	0.23	<1	9	26	16	2.72	<.01	<10	0.26	243	<1	0.02	10	770	12	<5	<20	27	0.16	<10	52	<10	4	53
20	U94 L39N:54+75W	<.2	1.04	15	115	<5	0.36	<1	7	19	12	1.63	0.12	<10	0.25	216	<1	0.02	8	570	8	<5	<20	30	0.15	<10	36	<10	7	34
21	U94 L39N:55+00W	<.2	1.28	15	125	<5	0.52	<1	6	22	13	1.90	0.10	<10	0.28	189	<1	0.02	8	610	6	<5	<20	43	0.14	<10	36	<10	9	38
22	U94 L39N:55+25W	<.2	1.53	25	140	<5	0.55	<1	8	27	19	2.55	0.07	<10	0.35	253	<1	0.02	11	650	8	<5	<20	51	0.15	<10	46	<10	12	43
23	U94 L39N:55+50W	<.2	1.36	15	130	<5	0.39	<1	7	20	14	1.80	0.15	<10	0.32	183	<1	0.02	10	570	8	<5	<20	39	0.17	<10	37	<10	5	34
24	U94 L39N:55+75W	<.2	1.61	10	150	<5	0.26	<1	7	18	15	1.82	0.09	<10	0.26	162	<1	0.01	11	510	4	<5	<20	30	0.15	<10	34	<10	4	39
25	U94 L39N:56+00W	<.2	2.23	15	175	<5	0.16	<1	9	19	18	2.39	<.01	<10	0.28	201	<1	0.01	15	810	<2	<5	<20	21	0.13	<10	41	<10	3	80
26	U94ML41N:50+00W	<.2	1.01	15	80	<5	0.12	<1	2	5	5	1.19	0.35	<10	0.07	127	2	0.01	2	410	10	<5	<20	10	0.02	<10	16	<10	4	66
27	U94ML41N:50+25W	<.2	1.23	20	100	<5	0.08	<1	2	8	5	1.80	0.22	<10	0.09	116	2	0.01	2	280	8	<5	<20	9	0.03	<10	23	<10	4	60
28	U94ML41N:50+50W	<.2	1.02	<5	75	<5	0.11	<1	<1	<1	4	0.25	0.58	<10	0.02	210	<1	0.01	<1	340	<2	<5	<20	7	<.01	<10	2	<10	3	52

PIONEER METALS CORPORATION ETK 94-379

July 12, 1994

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	K %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
29	U94ML41N:50+75W	0.2	0.91	5	80	<5	0.05	<1	<1	2	3	0.44	0.46	<10	0.02	100	1	0.01	<1	240	4	<5	<20	5	0.01	<10	7	<10	5	63
30	U94ML41N:51+00W	0.4	1.15	20	90	<5	0.09	<1	1	3	5	0.80	0.42	<10	0.05	167	5	<.01	1	320	4	<5	<20	9	0.01	<10	10	<10	5	114
31	U94ML41N:51+25W	0.6	1.43	10	105	<5	0.11	<1	1	3	5	0.81	0.43	<10	0.05	340	1	<.01	1	340	4	<5	<20	9	<.01	<10	9	<10	6	195
32	U94ML41N:51+50W	0.6	1.00	20	120	<5	0.17	<1	1	3	5	0.74	0.53	<10	0.05	372	10	<.01	1	410	12	<5	<20	16	<.01	<10	8	<10	9	160
33	U94ML41N:51+75W	0.4	1.10	<5	145	<5	0.16	<1	1	1	5	0.46	0.62	<10	0.03	353	1	<.01	<1	370	4	<5	<20	13	<.01	<10	2	<10	6	141
34	U94ML41N:48+00W	<.2	1.13	20	70	<5	0.07	<1	2	6	5	1.42	0.32	<10	0.07	135	3	<.01	2	240	8	<5	<20	11	0.02	<10	19	<10	3	109
35	U94ML41N:48+25W	<.2	0.44	5	50	<5	0.10	<1	1	4	3	0.56	0.40	<10	0.04	43	1	0.01	<1	90	10	<5	<20	11	0.03	<10	8	<10	4	26
36	U94ML41N:48+50W	0.2	0.66	20	90	<5	0.16	<1	1	4	4	0.82	0.42	<10	0.05	140	2	0.01	2	170	16	<5	<20	17	0.02	<10	13	<10	6	50
37	U94ML41N:48+75W	<.2	0.72	15	75	<5	0.12	<1	2	6	3	0.66	0.28	<10	0.07	98	1	<.01	1	200	10	<5	<20	12	0.02	<10	14	<10	4	74
38	U94ML41N:49+00W	<.2	0.80	<5	90	<5	0.06	<1	1	2	2	0.59	0.37	<10	0.03	212	<1	<.01	<1	230	6	<5	<20	7	0.01	<10	9	<10	4	67
39	U94ML41N:49+25W	<.2	0.80	20	75	<5	0.07	<1	1	5	3	0.78	0.36	<10	0.04	245	2	<.01	<1	300	12	<5	<20	8	0.02	<10	13	<10	3	87
40	U94ML41N:49+50W	<.2	1.52	15	115	<5	0.10	<1	7	19	10	2.49	<.01	<10	0.18	232	<1	<.01	10	710	8	<5	<20	9	0.10	<10	47	<10	2	111
41	U94ML41N:49+75W	<.2	0.62	5	80	<5	0.09	<1	<1	2	2	0.43	0.48	<10	0.02	277	2	0.01	<1	160	8	<5	<20	8	<.01	<10	7	<10	4	75
42	U94ML41N:52+00W	0.6	1.46	20	110	<5	0.17	<1	2	6	4	1.27	0.43	<10	0.07	117	2	0.01	2	560	10	<5	<20	14	0.01	<10	16	<10	5	114
43	U94ML41N:52+25W	0.8	0.86	10	70	<5	0.14	<1	2	6	5	0.86	0.32	<10	0.05	150	<1	<.01	<1	280	10	<5	<20	12	0.02	<10	14	<10	5	203
44	U94ML41N:52+50W	0.4	1.18	25	105	<5	0.09	<1	<1	3	4	1.03	0.32	<10	0.04	313	2	<.01	<1	280	12	<5	<20	7	<.01	<10	9	<10	6	152
45	U94ML41N:52+75W	1.0	1.59	5	100	<5	0.12	<1	<1	<1	4	0.73	0.46	<10	0.03	302	<1	<.01	<1	490	<2	<5	<20	7	<.01	<10	5	<10	5	166
46	U94ML41N:53+00W	0.4	0.93	10	120	<5	0.14	<1	1	4	4	0.79	0.47	<10	0.04	153	<1	<.01	<1	340	10	<5	<20	14	0.01	<10	10	<10	6	109
47	U94ML41N:53+25W	0.2	1.22	25	145	<5	0.14	<1	1	3	5	1.10	0.42	<10	0.04	200	1	<.01	<1	440	22	<5	<20	15	<.01	<10	9	<10	6	139

QC DATA

Repeat #:

1	U94 L39N:50+00W	<.2	0.96	15	89	<5	0.12	<1	3	9	7	2.05	0.51	<10	0.12	415	3	0.02	2	130	24	<5	<20	17	0.05	<10	19	<10	7	85
39	U94ML41N:49+25W	0.2	0.79	15	80	<5	0.07	<1	1	4	3	0.80	0.35	<10	0.04	247	2	<.01	<1	280	12	<5	<20	8	0.02	<10	13	<10	3	87
Standard 1991:		1.4	1.97	85	160	<5	1.87	<1	17	66	83	3.92	0.36	<10	0.99	710	<1	0.01	26	710	24	<5	<20	60	0.12	<10	76	10	6	78

Note: * = No sample

XLS/Pioneer

ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

Eco-Tech
LABORATORIES LTD.

ASSAYING
GEOCHEMISTRY
ANALYTICAL CHEMISTRY
ENVIRONMENTAL TESTING

10041 E. Trans Canada Hwy., R.R. #2, Kamloops, B.C. V2C 2J3 Phone (604) 573-5700
Fax (604) 573-4557

CERTIFICATE OF ASSAY ETK 94-379

PIONEER METALS CORP.
1771-401 W. GEORGIA ST.
VANCOUVER, B.C
V6B 5A1

8-Jul-94

ATTENTION: DAVID TUPPER

47 SOIL samples received June 28, 1994
Project: Uduk Lake

ET #.	Description	Au ppb
1	U94 L39N:50+00W	25
2	U94 L39N:50+25W	5
3	U94 L39N:50+50W	15
4	U94 L39N:50+75W	10
5	U94 L39N:51+00W	65
6	U94 L39N:51+25W	<5
7	U94 L39N:51+50W	<5
8	U94 L39N:51+75W	45
9	U94 L39N:52+00W	240
10	U94 L39N:52+25W	<5
11	U94 L39N:52+50W	5
12	U94 L39N:52+75W	5
13	U94 L39N:53+00W	<5
14	U94 L39N:53+25W	5
15	U94 L39N:53+50W	5
16	U94 L39N:53+75W	<5
17	U94 L39N:54+00W	<5
18	U94 L39N:54+25W	<5
19	U94 L39N:54+50S	5
20	U94 L39N:54+75W	<5
21	U94 L39N:55+00W	<5
22	U94 L39N:55+25W	<5
23	U94 L39N:55+50W	<5
24	U94 L39N:55+75W	<5
25	U94 L39N:56+00W	<5
26	U94ML41N:50+00W	<5
27	U94ML41N:50+25W	55
28	U94ML41N:50+50W	<5
29	U94ML41N:50+75W	<5
30	U94ML41N:51+00W	5
31	U94ML41N:51+25W	10

PIONEER METALS CORP. ETK 379

ET #.	Description	Au ppb
32	U94ML41N:51+50W	15
33	U94ML41N:51+75W	<5
34	U94ML41N:48+00W	15
35	U94ML41N:48+25W	<5
36	U94ML41N:48+50W	10
37	U94ML41N:48+75W	<5
38	U94ML41N:49+00W	<5
39	U94ML41N:49+25W	<5
40	U94ML41N:49+50W	<5
41	U94ML41N:49+75W	<5
42	U94ML41N:52+00W	<5
43	U94ML41N:52+25W	15
44	U94ML41N:52+50W	<5
45	U94ML41N:52+75W	<5
46	U94ML41N:53+00W	25
47	U94ML41N:53+25W	10

ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

XLS/Pioneer

1-Jul-94

ECO-TECH LABORATORIES LTD.
10041 East Trans Canada Highway
KAMLOOPS, B.C.
V2C 2J3

Phone: 604-573-5700
Fax : 604-573-4557

Values in ppm unless otherwise reported

PIONEER METALS CORPORATION ETK 94-347
1770-401 W.GEORGIA STREET
VANCOUVER, B.C.
V6B 5A1

ATTENTION: DAVID TUPPER/DAVID DUNN

65 SOIL samples received June 21, 1994
PROJECT #: UDUK LAKE

El #.	Tag #	Au (ppb)	Ag	Al %	As	B	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	K %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	U94DL38N: 53+00W	<5	<.2	1.30	<5	6	120	10	0.26	<1	9	14	8	2.23	0.03	10	0.25	266	<1	0.01	9	750	28	<5	<20	21	0.12	<10	43	<10	12	40
2	U94DL38N: 53+25W	<5	<.2	1.33	5	6	140	10	0.28	<1	10	22	9	2.53	0.04	10	0.29	285	<1	0.01	8	460	24	<5	<20	30	0.15	<10	52	<10	14	38
3	U94DL38N: 53+50W	<5	<.2	1.09	<5	6	160	10	0.16	<1	9	18	7	2.22	0.03	10	0.22	175	<1	0.01	11	510	30	<5	<20	23	0.10	<10	42	<10	10	37
4	U94DL38N: 53+75W	<5	<.2	2.51	5	4	160	5	0.34	<1	10	20	7	2.50	0.04	<10	0.33	708	<1	0.01	12	600	40	<5	<20	31	0.07	<10	47	<10	7	61
5	U94DL38N: 54+00W	<5	<.2	1.70	<5	6	165	10	0.12	<1	8	18	7	2.05	0.03	<10	0.21	192	<1	0.01	10	650	30	<5	<20	19	0.11	<10	39	<10	9	40
6	U94DL38N:54+25W	<5	<.2	1.11	<5	6	115	10	0.25	<1	7	16	6	1.85	0.03	10	0.20	156	<1	0.02	7	420	22	<5	<20	27	0.12	<10	33	<10	12	28
7	U94DL38N: 54+50W	<5	<.2	2.08	<5	4	175	5	0.38	<1	9	18	6	2.13	0.05	10	0.31	368	<1	0.02	11	460	36	<5	<20	36	0.10	<10	34	<10	10	58
8	U94DL38N: 54+75W	<5	<.2	1.63	10	6	150	10	0.56	<1	8	24	9	2.42	0.04	20	0.35	171	<1	0.03	10	510	28	<5	<20	56	0.12	<10	38	<10	18	34
9	U94DL38N: 55+00W	<5	<.2	0.89	<5	8	110	10	0.34	<1	6	16	6	1.49	0.03	10	0.22	183	<1	0.02	8	800	14	<5	<20	30	0.11	<10	30	<10	12	26
10	U94DL38N: 55+25W	<5	<.2	0.98	<5	6	105	15	0.31	<1	6	13	12	1.42	0.03	10	0.24	142	<1	0.02	5	410	16	<5	<20	31	0.11	<10	29	<10	12	22
11	U94DL38N: 55+50W	<5	<.2	1.30	10	6	115	15	0.42	<1	8	18	8	2.16	0.04	10	0.30	248	<1	0.02	7	610	18	<5	<20	33	0.10	<10	40	<10	14	31
12	U94DL38N: 55+75W	<5	<.2	1.01	<5	6	90	10	0.25	<1	6	11	5	1.48	0.02	<10	0.21	158	<1	0.01	5	370	16	<5	<20	18	0.12	<10	28	<10	12	27
13	U94DL38N: 56+00W	<5	<.2	1.01	<5	6	80	10	0.23	<1	6	11	4	1.47	0.03	<10	0.21	176	<1	0.01	5	350	16	<5	<20	18	0.12	<10	30	<10	11	36
14	U94DL38N: 56+25W	<5	<.2	0.95	<5	6	90	10	0.24	<1	6	9	3	1.39	0.02	<10	0.21	148	<1	0.02	5	280	14	<5	<20	19	0.10	<10	27	<10	10	28
15	U94DL38N: 56+50W	<5	<.2	1.53	<5	8	155	10	0.22	<1	9	16	6	2.17	0.03	<10	0.20	176	<1	0.01	9	660	20	<5	<20	19	0.11	<10	42	<10	10	34
16	U94DL38N: 56+75W	<5	<.2	1.08	<5	8	120	15	0.41	<1	8	16	7	2.13	0.03	10	0.27	276	<1	0.02	7	630	14	<5	<20	44	0.12	<10	42	<10	14	30
17	U94DL38N: 57+00W	<5	<.2	1.53	<5	6	115	10	0.36	<1	7	11	6	1.80	0.03	10	0.25	378	<1	0.01	8	390	20	<5	<20	31	0.07	<10	34	<10	9	45
18	U94DL38N: 57+25W	<5	<.2	0.91	<5	6	85	10	0.33	<1	7	14	5	1.62	0.03	10	0.29	176	<1	0.02	6	470	14	<5	<20	33	0.12	<10	36	<10	13	23
19	U94DL38N: 57+50W	5	<.2	1.70	<5	8	145	10	0.23	<1	9	13	8	2.04	0.03	<10	0.24	164	<1	0.01	9	500	24	<5	<20	21	0.12	<10	40	<10	10	47
20	U94DL38N: 57+75W	<5	<.2	1.08	<5	6	105	10	0.30	<1	8	19	7	2.37	0.02	10	0.27	282	<1	0.02	7	420	14	<5	<20	33	0.14	<10	50	<10	15	33
21	U94DL38N: 58+00W	<5	<.2	1.58	<5	6	150	10	0.20	<1	10	16	7	2.43	0.03	<10	0.22	172	<1	0.01	11	730	24	<5	<20	24	0.12	<10	46	<10	10	43
22	U94DL38N: 58+25W	<5	<.2	1.12	<5	8	105	15	0.30	<1	8	16	6	1.87	0.02	10	0.24	193	<1	0.02	6	560	18	<5	<20	30	0.13	<10	36	<10	13	27
23	U94DL38N: 58+50W	<5	<.2	1.04	<5	6	80	10	0.27	<1	6	12	5	1.38	0.02	10	0.29	128	<1	0.02	5	410	16	<5	<20	23	0.12	<10	30	<10	12	23
24	U94DL38N: 58+75W	<5	<.2	1.08	<5	8	105	10	0.38	<1	7	15	8	1.90	0.03	10	0.28	194	<1	0.02	7	580	16	<5	<20	36	0.12	<10	35	<10	16	30
25	U94DL38N: 59+00W	<5	<.2	1.25	<5	6	145	15	0.35	<1	8	17	6	1.86	0.03	20	0.26	226	<1	0.02	7	560	18	<5	<20	47	0.12	<10	36	<10	16	38
26	U94DL38N: 59+25W	<5	<.2	1.08	15	8	120	10	0.24	<1	8	17	8	2.49	0.02	10	0.25	232	<1	0.01	8	540	14	<5	<20	37	0.12	<10	49	<10	13	37
27	U94DL38N: 59+50W	<5	<.2	1.58	15	6	145	15	0.16	<1	9	15	8	2.59	0.04	<10	0.21	227	<1	<.01	10	1080	22	<5	<20	18	0.11	<10	46	<10	9	47
28	U94DL38N: 59+75W	<5	<.2	1.23	15	6	95	10	0.13	<1	8	15	6	2.88	0.04	<10	0.21	236	<1	0.01	8	600	16	<5	<20	14	0.11	<10	51	<10	10	42
29	U94DL38N: 60+00W	<5	<.2	1.54	10	6	95	15	0.15	<1	8	15	5	2.84	0.04	<10	0.13	393	<1	<.01	5	1660	20	<5	<20	15	0.11	<10	51	<10	8	80
30	U94DL38N: 60+25W	<5	<.2	1.47	10	8	115	10	0.16	<1	8	15	8	2.78	0.04	<10	0.22	289	<1	0.01	8	730	18	<5	<20	12	0.10	<10	49	<10	8	55

St #	Tag #	Au (ppb)	Ag	Al %	As	B	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	K %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Se	Sr	Ti %	U	V	W	Y	Zn
31	U94DL38N: 60+00W	<5	<.2	1.31	10	6	125	10	0.30	<1	8	14	7	2.10	0.04	10	0.24	385	<1	0.01	8	720	16	<5	<20	33	0.10	<10	38	<10	14	51
32	U94DL38N: 60+75W	<5	<.2	1.08	15	6	100	10	0.19	<1	8	14	5	2.46	0.06	<10	0.17	348	<1	<.01	4	860	14	<5	<20	15	0.11	<10	44	<10	10	116
33	U94DL38N: 61+00W	<5	<.2	1.09	45	6	105	10	0.14	1	8	13	5	2.34	0.04	<10	0.16	354	<1	<.01	4	1530	14	<5	<20	11	0.08	<10	41	<10	9	95
34	U94DL38N: 61+25W	<5	<.2	1.02	220	6	105	5	0.16	5	7	10	5	2.82	0.06	10	0.14	225	1	0.01	4	1050	14	<5	<20	18	0.07	<10	35	<10	13	95
35	U94DL38N: 61+50W	<5	<.2	0.79	145	6	100	10	0.14	3	6	9	5	2.54	0.06	10	0.10	270	<1	<.01	2	880	14	<5	<20	18	0.06	<10	34	<10	11	116
36	U94DL38N: 61+75W	<5	<.2	1.60	35	6	115	15	0.22	1	9	15	6	2.66	0.05	<10	0.21	285	<1	<.01	8	880	20	<5	<20	19	0.09	<10	49	<10	9	52
37	U94DL38N: 62+00W	<5	<.2	0.78	25	6	85	10	0.19	<1	6	10	4	1.64	0.02	<10	0.21	157	<1	0.01	4	230	14	<5	<20	18	0.11	<10	33	<10	11	28
38	U94ML47N: 35+00W	<5	<.2	1.05	<5	6	70	10	0.20	<1	7	12	6	1.87	0.04	10	0.23	248	<1	<.01	6	310	16	<5	<20	17	0.09	<10	35	<10	9	34
39	U94ML47N: 35+25W	<5	<.2	0.97	<5	6	75	10	0.19	<1	7	10	5	1.86	0.04	<10	0.19	172	<1	<.01	6	330	16	<5	<20	15	0.09	<10	36	<10	8	34
40	U94ML47N: 35+50W	<5	<.2	0.94	<5	6	100	10	0.21	<1	8	11	4	1.97	0.03	10	0.18	246	<1	<.01	5	360	14	<5	<20	21	0.07	<10	40	<10	7	39
41	U94ML47N: 35+75W	<5	<.2	1.14	<5	6	85	10	0.15	<1	9	14	5	2.33	0.05	<10	0.18	195	<1	<.01	8	280	14	<5	<20	15	0.10	<10	47	<10	8	40
42	U94ML47N: 36+00W	<5	<.2	0.94	5	6	70	10	0.19	<1	7	13	6	2.12	0.04	10	0.19	209	<1	<.01	5	280	14	<5	<20	18	0.09	<10	43	<10	9	34
43	U94ML47N: 36+25W	<5	<.2	1.15	10	6	90	10	0.15	<1	8	14	6	2.27	0.03	10	0.20	211	<1	<.01	8	340	16	<5	<20	15	0.09	<10	44	<10	9	34
44	U94ML47N: 36+50W	<5	<.2	1.00	<5	6	85	10	0.14	<1	7	11	4	1.84	0.03	<10	0.16	210	<1	<.01	5	230	16	<5	<20	9	0.08	<10	38	<10	8	34
45	U94ML47N: 36+75W	<5	<.2	0.93	<5	6	70	10	0.17	<1	6	9	4	1.66	0.04	10	0.20	182	<1	<.01	5	300	14	<5	<20	11	0.07	<10	33	<10	8	31
46	U94ML47N: 37+00W	<5	<.2	0.99	5	6	70	10	0.22	<1	7	11	5	1.87	0.04	10	0.21	218	<1	0.01	5	340	16	<5	<20	17	0.09	<10	34	<10	10	36
47	U94ML47N: 37+25W	<5	<.2	1.74	5	4	105	10	0.24	<1	9	14	7	2.32	0.05	10	0.28	452	<1	0.01	8	340	22	<5	<20	23	0.04	<10	40	<10	7	46
48	U94ML47N: 37+50W	<5	<.2	1.51	5	4	115	<5	0.13	<1	8	13	6	2.22	0.04	<10	0.18	188	<1	<.01	8	370	18	<5	<20	12	0.06	<10	40	<10	6	44
49	U94ML47N: 37+75W	<5	<.2	1.27	5	4	85	10	0.19	<1	8	11	5	1.78	0.06	10	0.24	247	<1	<.01	5	280	18	<5	<20	19	0.05	<10	32	<10	7	32
50	U94ML47N: 38+00W	<5	<.2	1.01	<5	6	80	10	0.21	<1	7	12	5	1.81	0.04	10	0.21	258	<1	0.01	6	350	18	<5	<20	16	0.09	<10	36	<10	10	32
51	U94ML47N: 38+25W	<5	<.2	0.82	<5	4	85	10	0.15	<1	8	9	4	1.61	0.04	10	0.19	185	<1	<.01	3	280	14	<5	<20	13	0.07	<10	31	<10	8	30
52	U94ML47N: 38+50W	<5	<.2	1.41	<5	4	95	5	0.19	<1	8	10	6	1.89	0.05	10	0.22	430	<1	<.01	6	350	18	<5	<20	19	0.04	<10	29	<10	6	40
53	U94ML47N: 38+75W	<5	<.2	0.91	5	6	80	10	0.20	<1	8	13	5	2.07	0.04	10	0.21	202	<1	<.01	5	410	14	<5	<20	17	0.10	<10	40	<10	10	31
54	U94ML47N: 39+00W	<5	<.2	0.97	5	6	75	10	0.22	<1	7	12	5	1.86	0.04	20	0.26	201	<1	<.01	6	360	18	<5	<20	17	0.09	<10	36	<10	10	30
55	U94ML47N: 39+25W	<5	<.2	1.09	10	6	70	10	0.22	<1	7	11	4	1.85	0.04	10	0.24	217	<1	<.01	5	430	18	<5	<20	16	0.09	<10	30	<10	10	28
56	U94ML47N: 39+50W	<5	<.2	0.88	10	6	65	10	0.19	<1	6	11	4	1.62	0.03	10	0.20	191	<1	<.01	5	360	16	<5	<20	13	0.09	<10	31	<10	9	29
57	U94ML47N: 39+75W	<5	<.2	0.80	<5	6	55	5	0.14	<1	5	9	3	1.51	0.03	10	0.19	172	<1	<.01	5	200	14	<5	<20	10	0.08	<10	29	<10	8	30
58	U94ML47N: 40+00W	<5	<.2	0.96	<5	6	80	10	0.15	<1	7	11	5	1.89	0.04	20	0.16	153	1	<.01	5	460	16	<5	<20	11	0.07	<10	37	<10	9	33
59	U94ML47N: 40+25W	<5	<.2	0.72	10	6	65	10	0.15	<1	5	10	4	1.69	0.04	10	0.17	157	<1	<.01	3	320	12	<5	<20	10	0.08	<10	34	<10	9	29
60	U94ML47N: 40+50W	<5	<.2	0.65	5	4	55	5	0.14	<1	5	9	4	1.49	0.03	10	0.18	135	<1	<.01	3	200	14	<5	<20	12	0.06	<10	29	<10	7	30
61	U94ML47N: 40+75W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
62	U94ML47N: 41+00W	<5	<.2	1.57	15	6	120	10	0.16	<1	10	19	7	2.43	0.04	10	0.27	204	<1	<.01	8	280	20	<5	<20	15	0.10	<10	46	<10	9	41
63	U94DL47N: 41+25W	<5	<.2	2.64	25	2	230	10	0.48	<1	6	14	19	2.95	0.13	30	0.20	112	3	0.01	11	880	34	<5	<20	48	<.01	<10	29	<10	11	39
64	U94DL47N: 41+50W	140	3.2	3.84	30	<2	200	<5	0.49	<1	5	18	31	2.57	0.14	30	0.29	119	1	0.01	15	780	82	<5	<20	33	<.01	<10	17	<10	14	61
65	U94DL47N: 41+75W	55	1.2	2.63	170	4	205	10	0.33	4	10	19	34	4.74	0.14	20	0.28	370	14	<.01	12	540	64	<5	<20	33	0.01	<10	69	<10	8	69
66	U94DL47N: 42+00W	5	0.4	1.31	35	4	85	10	0.25	1	7	13	13	1.81	0.07	20	0.19	324	4	<.01	6	<10	54	<5	<20	19	0.05	<10	33	<10	8	48
67	U94DL47N: 42+25W	5	<.2	0.80	<5	6	70	10	0.21	<1	6	11	4	1.45	0.02	10	0.17	167	<1	0.01	4	280	16	<5	<20	13	0.09	<10	30	<10	10	28
68	U94DL47N: 42+50W	<5	0.4	2.24	10	<2	140	<5	0.48	<1	4	14	23	1.98	0.05	20	0.16	93	1	0.01	7	610	28	<5	<20	41	<.01	<10	18	<10	12	30
69	U94DL47N: 42+75W	<5	<.2	1.34	10	2	105	5	0.31	<1	4	17	9	1.74	0.03	20	0.16	143	2	0.01	3	180	22	<5	<20	27	0.03	<10	31	<10	10	21
70	U94DL47N: 43+00W	55	0.8	1.18	10	2	90	<5	0.78	<1	2	4	29	0.40	0.01	30	0.10	42	5	<.01	4	620	16	<5	<20	51	<.01	<10	16	<10	19	12

El #	Tag #	Au (ppb)	Ag	Al %	As	B	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	K %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
71	U94DL47N: 43+25W	50	1.2	1.71	10	2	130	<5	1.09	<1	3	8	32	0.72	0.02	40	0.15	75	5	<.01	8	740	22	<5	<20	76	<.01	<10	14	<10	31	48
72	U94DL47N: 43+50W	45	1.2	1.75	25	2	130	<5	1.02	1	2	8	34	0.76	0.03	40	0.16	91	11	<.01	8	740	34	<5	<20	71	<.01	<10	15	<10	33	102
73	U94DL47N: 43+75W	40	0.8	1.47	15	2	130	<5	0.95	1	2	8	30	0.57	0.02	40	0.13	88	9	0.01	5	820	38	<5	<20	88	<.01	<10	14	<10	33	58
74	U94DL47N: 44+00W	80	0.6	1.11	15	2	80	<5	1.01	<1	2	2	32	0.47	<.01	40	0.12	67	7	0.01	6	570	22	<5	<20	65	<.01	<10	16	<10	37	15
75	U94DL47N: 44+25W	10	0.4	1.13	5	4	115	<5	1.10	<1	1	3	28	0.48	<.01	30	0.11	75	6	0.01	4	800	14	<5	<20	71	<.01	<10	17	<10	27	11
76	U94DL47N: 44+50W	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
77	U94DL47N: 44+75W	<5	<.2	1.45	5	6	80	10	0.11	<1	6	12	5	2.13	0.03	10	0.13	171	1	<.01	4	1150	24	<5	<20	9	0.05	<10	36	<10	7	116
78	U94DL47N: 45+00W	<5	<.2	2.10	5	2	160	5	0.46	<1	5	16	12	2.46	0.03	30	0.23	73	<1	0.01	8	360	28	<5	<20	34	0.03	<10	36	<10	15	26
79	U94DL47N: 45+25W	<5	<.2	2.48	<5	<2	155	5	0.28	<1	4	14	7	1.98	0.01	20	0.12	91	<1	<.01	6	300	36	<5	<20	24	<.01	<10	22	<10	7	18
80	U94DL47N: 45+50W	<5	1.8	1.30	5	4	105	10	0.16	<1	7	13	6	1.98	0.03	10	0.16	172	<1	<.01	6	400	18	<5	<20	13	0.09	<10	38	<10	10	35
81	U94DL47N: 45+75W	<5	<.2	1.07	<5	4	80	10	0.17	<1	6	12	4	1.54	0.03	10	0.19	168	<1	<.01	4	270	16	<5	<20	17	0.09	<10	32	<10	9	37
82	U94DL47N: 46+00W	5	<.2	0.85	<5	4	85	10	0.16	<1	5	9	4	1.28	0.02	10	0.13	135	<1	<.01	3	230	20	<5	<20	14	0.08	<10	28	<10	10	40
83	U94DL47N: 46+25W	<5	<.2	1.32	<5	4	75	10	0.15	<1	5	10	4	1.71	0.03	10	0.19	163	<1	<.01	4	360	20	<5	<20	15	0.07	<10	30	<10	9	47
84	U94DL47N: 46+50W	5	<.2	1.24	<5	4	80	10	0.21	<1	6	11	4	1.72	0.04	10	0.20	170	<1	0.01	4	440	20	<5	<20	18	0.09	<10	32	<10	11	48
85	U94DL47N: 46+75W	20	<.2	1.10	<5	4	80	10	0.18	<1	5	9	3	1.33	0.03	10	0.17	138	<1	<.01	3	410	20	<5	<20	14	0.09	<10	24	<10	11	38
86	U94DL47N: 47+00W	10	<.2	1.88	<5	4	110	10	0.22	<1	9	16	6	2.40	0.03	<10	0.27	244	<1	0.01	7	600	24	<5	<20	20	0.13	<10	44	<10	11	53
87	94UTS:001	<5	<.2	0.84	145	4	145	10	0.09	3	8	10	7	2.48	0.08	<10	0.09	380	2	0.01	1	460	16	<5	<20	15	0.09	<10	36	<10	9	124
88	94UTS:002	<5	<.2	1.05	85	4	75	10	0.12	2	6	11	3	2.09	0.03	<10	0.12	575	<1	<.01	2	230	14	<5	<20	14	0.07	<10	32	<10	10	75
QC DATA:																																
Repeat:																																
1	U94DL39N: 53+00W		<.2	1.28	<5	6	120	10	0.26	<1	8	14	6	2.04	0.03	10	0.22	243	<1	0.01	6	750	18	<5	<20	21	0.10	<10	38	<10	11	38
38	U94ML47N: 35+25W		<.2	0.99	<5	6	75	10	0.19	<1	7	11	5	1.67	0.03	10	0.18	172	<1	<.01	6	360	14	<5	<20	17	0.09	<10	36	<10	8	34
79	U94DL47N: 45+25W		<.2	2.52	<5	<2	165	<5	0.26	<1	4	14	8	1.88	0.02	20	0.12	64	<1	<.01	6	270	28	<5	<20	25	<.01	<10	22	<10	7	19
Standard:																																
			1.0	1.87	65	8	165	<5	1.88	2	19	58	82	3.91	0.37	<10	1.00	651	<1	0.01	24	700	20	<5	<20	55	0.10	<10	72	<10	8	71
			1.0	1.88	65	6	165	5	1.64	<1	19	62	81	3.90	0.36	<10	1.00	646	<1	0.01	22	700	22	5	<20	57	0.11	<10	73	<10	11	71

* *No sample received*

ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

XLS/pioneer

13-Jul-94

ECO-TECH LABORATORIES LTD.
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PIONEER METALS CORPORATION ETK 94-402
1770-401 W.Georgia Street
VANCOUVER, B C.
V6B 5A1

ATTENTION: David Tupper

268 SOIL samples received July 4, 1994

Shipment #: 3
Project #: Udsk Lake

Values in ppm unless otherwise reported

Et #.	Tag #	Au ppb	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	K %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	U94A L40N: 53+50W	10	<.2	2.63	50	140	<5	0.39	<1	10	32	14	3.00	0.41	<10	0.30	410	2	0.03	9	1140	10	<5	<20	35	0.02	<10	55	<10	23	47
2	U94A L40N: 53+75W	<5	<.2	1.32	10	95	<5	0.46	<1	10	26	18	2.02	0.26	<10	0.37	220	<1	0.02	6	650	8	<5	<20	36	0.17	<10	45	<10	13	25
3	U94A L40N: 54+00W	<5	<.2	1.91	15	140	<5	0.32	<1	11	24	18	2.68	0.18	<10	0.34	286	<1	0.02	9	870	6	<5	<20	32	0.14	<10	60	<10	8	28
4	U94A L40N: 54+25W	<5	<.2	1.92	10	110	<5	0.27	<1	10	22	17	2.42	0.14	<10	0.33	280	<1	0.01	7	910	6	<5	<20	24	0.14	<10	52	<10	7	42
5	U94A L40N: 54+50W	<5	<.2	1.85	15	125	<5	0.35	<1	11	27	20	2.70	0.19	<10	0.36	381	<1	0.02	8	840	4	<5	<20	28	0.16	<10	61	<10	9	25
6	U94A L40N: 54+75W	10	<.2	2.08	15	135	<5	0.31	<1	13	30	23	3.14	0.13	<10	0.37	331	<1	0.02	9	790	4	<5	<20	31	0.17	<10	68	<10	9	29
7	U94A L40N: 55+00W	<5	<.2	1.52	10	120	<5	0.38	<1	10	27	19	2.35	0.12	<10	0.32	245	<1	0.02	6	780	6	<5	<20	32	0.16	<10	55	<10	10	19
8	U94A L40N: 55+25W	<5	<.2	1.11	10	80	<5	0.50	<1	9	22	17	1.91	0.18	<10	0.33	247	<1	0.02	5	950	6	<5	<20	36	0.16	<10	49	<10	12	19
9	U94A L40N: 55+50W	<5	<.2	2.08	25	130	<5	0.70	<1	14	35	27	3.55	0.17	<10	0.55	483	<1	0.02	11	910	4	<5	<20	54	0.16	<10	72	<10	19	37
10	U94A L40N: 55+75W	<5	<.2	1.34	10	90	<5	0.42	<1	9	23	16	1.82	0.13	<10	0.32	211	<1	0.02	6	450	4	<5	<20	27	0.16	<10	45	<10	9	19
11	U94A L40N: 56+00W	<5	<.2	1.10	10	80	<5	0.45	<1	8	23	17	1.65	0.15	<10	0.28	215	<1	0.02	4	810	4	<5	<20	31	0.17	<10	43	<10	12	17
12	U94A L40N: 56+25W	<5	<.2	1.43	10	95	<5	0.48	<1	10	27	19	2.22	0.12	<10	0.32	241	<1	0.02	7	850	6	<5	<20	33	0.18	<10	53	<10	11	22
13	U94A L40N: 56+50W	<5	<.2	1.64	10	85	<5	0.35	<1	10	30	16	2.49	0.17	<10	0.42	184	<1	0.02	8	600	6	<5	<20	25	0.14	<10	52	<10	5	26
14	U94A L40N: 56+75W	<5	<.2	2.63	20	130	<5	0.20	<1	14	27	19	3.36	0.15	<10	0.34	265	<1	0.01	12	1150	4	<5	<20	24	0.14	<10	65	<10	6	36
15	U94A L40N: 57+00W	<5	<.2	2.08	20	155	<5	0.18	<1	12	27	18	2.75	0.10	<10	0.28	266	<1	0.01	9	840	4	<5	<20	23	0.16	<10	58	<10	6	23
16	U94A L40N: 57+25W	<5	<.2	1.83	20	115	<5	0.22	29	9	18	20	2.65	0.06	<10	0.32	233	<1	<.01	10	820	6	<5	<20	17	0.11	<10	49	<10	7	64
17	U94A L40N: 57+50W	<5	<.2	1.44	15	75	<5	0.29	<1	8	19	17	1.97	0.12	<10	0.26	186	<1	0.01	6	600	6	<5	<20	21	0.15	<10	45	<10	7	26
18	U94A L40N: 57+75W	<5	<.2	2.76	30	140	<5	0.32	23	14	28	37	3.57	0.14	<10	0.35	411	<1	<.01	15	1880	12	<5	<20	25	0.16	<10	62	<10	5	204
19	U94A L40N: 58+00W	<5	<.2	3.75	50	170	<5	0.20	14	15	30	33	4.27	0.06	<10	0.31	232	<1	<.01	17	2250	4	<5	40	18	0.13	<10	71	<10	5	141
20	U94A L40N: 58+25W	<5	<.2	1.52	20	125	<5	0.49	<1	13	31	22	3.31	0.21	<10	0.39	478	<1	0.02	9	940	6	<5	<20	49	0.16	<10	72	<10	13	33
21	U94A L40N: 58+50W	<5	<.2	1.52	25	95	<5	0.31	<1	8	24	13	3.01	0.22	<10	0.25	266	1	0.02	6	890	6	<5	<20	34	0.10	<10	54	<10	12	33
22	U94A L40N: 58+75W	<5	<.2	0.84	15	75	<5	0.35	<1	5	12	12	2.15	0.25	<10	0.19	161	2	0.02	3	540	8	<5	<20	29	0.06	<10	35	<10	11	38
23	U94A L40N: 59+00W	5	<.2	2.55	40	145	<5	0.40	<1	15	24	17	4.09	0.33	<10	0.45	2748	5	0.01	10	1430	2	<5	<20	34	0.08	<10	59	<10	15	123
24	U94A L40N: 59+25W	<5	<.2	1.53	20	105	<5	0.25	<1	9	23	11	3.12	0.15	<10	0.23	584	1	<.01	6	1510	4	<5	<20	18	0.08	<10	59	<10	7	71
25	U94A L40N: 59+50W	<5	<.2	1.40	15	205	<5	0.26	4	11	21	20	3.13	0.18	<10	0.19	2653	2	<.01	6	1250	12	<5	<20	20	0.12	<10	57	<10	10	239
26	U94A L40N: 59+75W	<5	<.2	2.09	20	120	<5	0.33	<1	11	28	15	2.81	0.18	<10	0.40	313	<1	0.02	9	580	6	<5	<20	31	0.11	<10	58	<10	8	33
27	U94A L40N: 60+00W	<5	<.2	2.41	15	135	<5	0.37	2	11	24	12	2.61	0.20	<10	0.33	310	<1	0.02	9	1120	4	<5	<20	32	0.07	<10	47	<10	10	35
28	U94A L40N: 60+25W	<5	<.2	1.04	5	100	<5	0.50	8	10	25	22	2.20	0.21	<10	0.26	299	<1	0.02	9	880	4	<5	<20	54	0.16	<10	53	<10	15	26

PIONEER METALS CORPORATION ETK 94-402

Eco-Tech Laboratories Ltd.

Et #.	Tag #	Au ppb	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	K %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
29	U94A L40N: 60+50W	<5	<.2	1.99	10	115	<5	0.42	16	12	22	49	2.34	0.15	<10	0.45	212	<1	0.01	11	680	6	<5	<20	38	0.11	<10	50	<10	8	68
30	U94A L40N: 60+75W	<5	<.2	1.12	35	95	<5	0.84	105	10	24	24	2.65	0.19	<10	0.38	245	<1	<.01	8	780	16	<5	<20	57	0.15	<10	61	<10	14	105
31	U94A L40N: 61+00W	*	<.2	0.03	<5	<5	<5	0.03	2	<1	<1	<1	0.09	<.01	<10	<.01	9	<1	<.01	<1	30	<2	<5	<20	1	<.01	<10	2	<10	<1	<1
32	U94A L40N: 61+25W	<5	<.2	1.50	20	80	<5	0.68	180	12	22	26	3.21	0.23	<10	0.44	283	<1	0.02	12	490	8	<5	<20	45	0.10	<10	56	<10	19	63
33	U94A L42N: 53+25W	5	<.2	1.34	30	55	<5	0.12	4	6	16	12	2.86	0.31	<10	0.14	184	2	<.01	4	870	10	<5	<20	9	0.03	<10	43	<10	8	158
34	U94A L42N: 53+50W	<5	<.2	2.15	25	150	<5	0.41	<1	12	27	15	3.80	0.39	<10	0.24	681	2	0.04	7	710	6	<5	<20	42	0.05	<10	54	<10	35	48
35	U94A L42N: 53+75W	<5	<.2	1.94	20	120	<5	0.22	<1	13	27	10	4.14	0.28	<10	0.25	743	1	0.03	6	630	8	<5	<20	27	0.05	<10	53	<10	20	36
36	U94A L42N: 54+00W	<5	<.2	2.46	25	145	<5	0.52	4	13	34	18	4.27	0.26	<10	0.38	615	1	0.03	10	530	10	<5	<20	40	0.07	<10	66	<10	25	44
37	U94A L42N: 54+25W	5	<.2	2.40	25	135	<5	0.26	3	13	22	20	3.35	0.09	<10	0.36	469	<1	0.01	12	1530	4	<5	<20	23	0.12	<10	56	<10	8	68
38	U94A L42N: 54+50W	<5	<.2	2.19	20	150	<5	0.30	<1	11	27	21	2.66	0.09	<10	0.33	277	<1	0.02	10	810	4	<5	<20	34	0.15	<10	59	<10	8	28
39	U94A L42N: 54+75W	<5	<.2	1.53	25	135	<5	0.26	<1	11	28	21	2.71	0.19	<10	0.31	246	<1	0.02	8	630	6	<5	<20	29	0.17	<10	59	<10	10	24
40	U94A L42N: 55+00W	<5	<.2	1.25	20	100	<5	0.38	<1	11	30	21	2.99	0.21	<10	0.32	381	<1	0.02	8	680	4	<5	<20	34	0.18	<10	66	<10	11	27
41	U94A L42N: 55+25W	<5	<.2	1.37	20	115	<5	0.63	<1	13	30	22	3.39	0.19	<10	0.48	514	<1	0.02	10	800	4	<5	<20	54	0.14	<10	65	<10	19	35
42	U94A L42N: 55+50W	10	<.2	1.67	15	125	<5	0.46	<1	9	25	17	2.47	0.24	<10	0.37	306	<1	0.02	8	610	6	<5	<20	37	0.12	<10	50	<10	12	34
43	U94A L42N: 55+75W	5	<.2	1.48	20	140	<5	0.71	<1	7	23	16	2.43	0.24	<10	0.25	148	<1	0.03	7	1020	8	<5	<20	43	0.09	<10	45	<10	25	16
44	U94A L42N: 56+00W	<5	<.2	1.14	15	100	<5	0.38	<1	12	30	20	2.92	0.25	<10	0.28	454	<1	0.02	7	880	10	<5	<20	30	0.18	<10	66	<10	12	34
45	U94A L42N: 56+25W	<5	<.2	1.23	15	110	<5	0.31	<1	10	27	18	2.74	0.15	<10	0.26	302	<1	0.02	6	820	10	<5	<20	27	0.17	<10	62	<10	11	28
46	U94A L42N: 56+50W	<5	<.2	1.69	15	110	<5	0.22	<1	10	24	16	2.60	0.12	<10	0.22	213	<1	0.01	7	1210	6	<5	<20	20	0.14	<10	50	<10	9	50
47	U94A L42N: 56+75W	<5	<.2	1.35	15	105	<5	0.43	<1	10	29	14	2.71	0.18	<10	0.36	189	<1	0.02	8	920	6	<5	<20	28	0.13	<10	56	<10	8	24
48	U94A L42N: 57+00W	5	<.2	1.19	10	110	<5	0.50	<1	9	26	18	2.42	0.21	<10	0.30	280	<1	0.02	6	770	8	<5	<20	43	0.16	<10	51	<10	14	23
49	U94A L42N: 57+25W	10	<.2	0.99	10	90	<5	0.38	<1	8	22	16	1.98	0.18	<10	0.25	197	<1	0.02	5	720	6	<5	<20	28	0.16	<10	45	<10	10	18
50	U94A L42N: 57+50W	<5	<.2	1.77	15	135	<5	0.54	<1	22	40	27	4.01	0.17	<10	0.81	594	<1	0.02	17	1010	2	<5	<20	45	0.18	<10	67	<10	12	34
51	U94A L42N: 57+75W	<5	<.2	1.24	15	100	<5	0.30	<1	11	28	19	2.76	0.16	<10	0.31	275	<1	0.02	7	650	6	<5	<20	28	0.17	<10	64	<10	9	22
52	U94A L42N: 58+00W	5	<.2	1.09	10	100	<5	0.42	<1	10	28	19	2.55	0.21	<10	0.33	316	<1	0.02	8	650	6	<5	<20	33	0.17	<10	57	<10	11	25
53	U94A L42N: 58+25W	5	<.2	1.22	10	80	<5	0.42	<1	9	25	16	2.10	0.21	<10	0.35	320	<1	0.02	6	640	8	<5	<20	28	0.15	<10	48	<10	9	26
54	U94A L42N: 58+50W	<5	<.2	1.47	15	130	<5	0.38	<1	10	24	18	2.74	0.11	<10	0.31	274	<1	0.02	8	970	6	<5	<20	32	0.14	<10	57	<10	10	30
55	U94A L42N: 58+75W	<5	<.2	1.10	10	90	<5	0.39	<1	10	18	16	2.46	0.20	<10	0.38	383	<1	0.01	6	920	8	<5	<20	26	0.12	<10	50	<10	11	52
56	U94A L42N: 59+00W	10	<.2	1.19	15	85	<5	0.41	<1	9	24	17	2.54	0.08	<10	0.34	333	<1	0.02	6	890	10	<5	<20	27	0.14	<10	55	<10	10	37
57	U94A L42N: 59+25W	<5	<.2	1.12	10	75	<5	0.47	<1	9	23	15	2.26	0.20	<10	0.35	284	<1	0.02	6	910	8	<5	<20	29	0.13	<10	48	<10	12	30
58	U94M L43N: 45+25W	35	<.2	0.74	10	60	<5	0.26	<1	6	17	12	1.63	0.35	<10	0.18	337	1	0.01	4	350	14	<5	<20	21	0.11	<10	32	<10	13	71
59	U94M L43N: 45+50W	45	<.2	0.66	10	55	<5	0.20	<1	5	13	10	1.45	0.31	<10	0.16	150	1	0.02	3	200	12	<5	<20	15	0.10	<10	28	<10	7	23
60	U94M L43N: 45+75W	40	<.2	0.64	10	65	<5	0.16	<1	6	16	12	1.72	0.25	<10	0.19	157	<1	0.02	4	220	10	<5	<20	14	0.12	<10	35	<10	6	25
61	U94M L43N: 46+00W	60	<.2	0.84	15	55	<5	0.13	<1	5	13	8	1.76	0.27	<10	0.11	134	1	0.02	2	240	8	<5	<20	12	0.07	<10	32	<10	7	17
62	U94M L43N: 46+25W	<5	<.2	0.85	10	60	<5	0.24	<1	6	15	11	1.55	0.25	<10	0.24	143	<1	0.01	4	240	12	<5	<20	19	0.11	<10	30	<10	7	32
63	U94M L43N: 46+50W	10	<.2	0.59	5	50	<5	0.20	<1	5	11	10	0.91	0.26	<10	0.15	115	<1	0.01	3	290	14	<5	<20	15	0.11	<10	21	<10	8	20
64	U94M L43N: 46+75W	<5	<.2	0.95	15	75	<5	0.31	<1	5	13	7	1.44	0.27	<10	0.18	228	<1	0.02	3	370	10	<5	<20	24	0.05	<10	27	<10	10	39
65	U94M L43N: 47+00W	<5	<.2	0.70	10	55	<5	0.18	<1	5	11	10	1.20	0.26	<10	0.16	133	<1	0.02	3	200	10	<5	<20	15	0.09	<10	25	<10	8	17
66	U94M L43N: 47+25W	<5	<.2	0.78	10	50	<5	0.11	<1	3	9	5	1.19	0.29	<10	0.06	113	1	0.02	1	580	8	<5	<20	9	0.04	<10	24	<10	7	24

PIONEER METALS CORPORATION ETK 94-402

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Et #.	Tag #	Au ppb	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	K %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
67	U94M L43N: 47+50W	<5	<.2	0.81	5	60	<5	0.19	<1	5	11	9	1.25	0.30	<10	0.17	133	<1	0.02	3	300	12	<5	<20	16	0.08	<10	24	<10	10	20
68	U94M L43N: 47+75W	5	<.2	0.98	15	85	<5	0.26	<1	7	18	12	2.14	0.26	<10	0.20	190	<1	0.02	5	610	8	<5	<20	19	0.11	<10	43	<10	9	21
69	U94M L43N: 48+00W	5	<.2	0.98	10	80	<5	0.28	<1	7	20	14	1.83	0.23	<10	0.19	199	<1	0.02	5	530	8	<5	<20	20	0.13	<10	38	<10	9	16
70	U94M L43N: 48+25W	<5	<.2	0.73	10	40	<5	0.14	<1	4	10	10	0.98	0.31	<10	0.13	115	<1	0.02	2	240	10	<5	<20	11	0.10	<10	22	<10	9	18
71	U94M L43N: 48+50W	65	<.2	0.85	5	60	<5	0.16	<1	4	10	7	1.11	0.28	<10	0.13	108	<1	0.02	2	310	10	<5	<20	12	0.06	<10	20	<10	12	16
72	U94M L43N: 48+75W	5	<.2	1.05	10	100	<5	0.24	<1	7	18	14	1.67	0.22	<10	0.20	164	<1	0.02	5	460	8	<5	<20	17	0.13	<10	35	<10	9	16
73	U94M L43N: 49+00W	<5	<.2	1.12	15	95	<5	0.24	<1	8	18	13	1.69	0.20	<10	0.20	168	<1	0.02	5	520	10	<5	<20	18	0.11	<10	35	<10	10	24
74	U94M L43N: 49+25W	<5	<.2	1.05	15	95	<5	0.26	<1	7	20	14	1.80	0.21	<10	0.20	175	<1	0.02	5	510	10	<5	<20	19	0.13	<10	39	<10	10	16
75	U94M L43N: 49+50W	<5	<.2	1.00	10	85	<5	0.28	<1	7	18	13	1.60	0.20	<10	0.20	191	<1	0.02	4	520	10	<5	<20	21	0.13	<10	38	<10	10	15
76	U94M L43N: 49+75W	<5	<.2	1.19	15	85	<5	0.31	<1	9	25	16	2.19	0.26	<10	0.26	254	<1	0.02	6	760	10	<5	<20	21	0.14	<10	47	<10	10	26
77	U94M L43N: 50+00W	<5	<.2	1.50	20	90	<5	0.20	<1	8	18	9	1.98	0.39	<10	0.24	176	<1	0.01	7	640	<2	<5	<20	15	0.09	<10	40	<10	5	36
78	U94A L43N: 50+25W	5	<.2	1.01	15	100	<5	0.27	<1	6	15	7	1.52	0.66	<10	0.19	109	<1	0.02	5	340	8	<5	<20	25	0.09	<10	34	<10	11	13
79	U94A L43N: 50+50W	<5	<.2	1.39	20	80	<5	0.23	<1	6	16	9	1.85	0.62	<10	0.26	215	1	0.02	7	740	2	<5	<20	15	0.09	<10	40	<10	7	33
80	U94A L43N: 50+75W	5	<.2	1.33	25	65	<5	0.24	<1	9	19	11	2.35	0.67	<10	0.28	212	1	0.02	6	680	<2	<5	<20	17	0.10	<10	50	<10	6	36
81	U94A L43N: 51+00W	40	<.2	1.29	10	105	<5	0.24	<1	16	28	11	2.42	0.49	<10	0.21	2082	3	0.01	7	610	8	<5	<20	20	0.16	<10	63	<10	4	70
82	U94A L43N: 51+25W	<5	1.0	4.42	35	205	10	0.49	<1	22	36	23	4.75	0.31	<10	0.46	6147	4	[illegible]	17	1740	<2	<5	<20	43	0.09	<10	76	<10	1	142
83	U94A L43N: 51+50W	<5	<.2	1.80	20	85	<5	0.21	<1	9	18	11	2.95	0.26	<10	0.29	351	1	0.02	8	760	<2	<5	<20	16	0.06	<10	54	<10	3	43
84	U94A L43N: 51+75W	5	<.2	3.29	30	115	10	0.44	<1	25	40	46	4.88	0.15	<10	0.31	2571	2	<.01	18	2140	<2	<5	<20	28	0.06	<10	117	<10	<1	133
85	U94A L43N: 52+00W	<5	1.4	1.29	20	65	<5	0.11	6	4	9	13	1.97	0.37	<10	0.13	236	1	<.01	5	650	4	<5	<20	8	0.02	<10	32	<10	8	128
86	U94A L43N: 52+25W	<5	0.4	1.29	10	65	<5	0.15	<1	2	6	6	1.14	0.73	<10	0.08	135	<1	<.01	1	1140	<2	<5	<20	10	0.01	<10	20	<10	15	132
87	U94A L43N: 52+50W	15	<.2	1.46	15	105	<5	0.20	<1	7	15	8	2.59	0.30	<10	0.24	304	<1	<.01	6	1150	<2	<5	<20	16	0.06	<10	47	<10	6	154
88	U94A L43N: 52+75W	20	<.2	1.54	15	75	<5	0.12	3	6	16	10	2.56	0.33	<10	0.16	310	<1	<.01	7	1040	<2	<5	<20	10	0.03	<10	44	<10	10	133
89	U94A L43N: 53+00W	<5	0.2	1.35	20	90	<5	0.17	<1	7	17	9	2.49	0.64	<10	0.21	420	2	<.01	5	500	4	<5	<20	15	0.06	<10	47	<10	7	89
90	U94M L44N: 50+00W	<5	<.2	1.43	20	80	<5	0.17	<1	8	19	10	2.42	0.14	<10	0.23	214	<1	0.01	6	590	2	<5	<20	13	0.10	<10	50	<10	8	61
91	U94M L44N: 50+25W	<5	<.2	1.83	15	85	<5	0.18	2	9	23	12	3.00	0.04	<10	0.24	373	<1	<.01	8	1580	<2	<5	<20	13	0.10	<10	54	<10	6	156
92	U94M L44N: 50+50W	20	0.2	1.62	30	115	<5	0.25	2	11	23	26	3.36	0.48	<10	0.41	515	1	0.02	10	570	4	<5	<20	23	0.08	<10	62	<10	15	88
93	U94M L44N: 50+75W	<5	1.0	4.20	35	230	<5	0.35	1	8	24	34	2.97	1.31	<10	0.39	207	<1	0.03	11	690	<2	<5	<20	35	0.02	<10	41	<10	21	99
94	U94M L44N: 51+00W	<5	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
95	U94M L44N: 51+25W	<5	<.2	1.16	15	85	<5	0.26	<1	9	20	11	1.86	0.19	<10	0.24	208	<1	0.01	6	540	<2	<5	<20	20	0.13	<10	47	<10	9	33
96	U94M L44N: 51+50W	<5	<.2	1.82	15	145	<5	0.25	<1	13	26	14	2.76	0.27	<10	0.31	267	<1	0.01	9	660	<2	<5	<20	22	0.14	<10	63	<10	4	35
97	U94M L44N: 51+75W	<5	<.2	1.05	15	80	<5	0.24	<1	8	17	10	1.99	0.34	<10	0.26	216	<1	0.01	6	510	2	<5	<20	19	0.12	<10	46	<10	8	34
98	U94M L44N: 52+00W	35	<.2	2.27	25	85	<5	0.11	1	9	22	11	3.36	0.06	<10	0.27	242	<1	<.01	8	1080	<2	<5	<20	12	0.06	<10	59	<10	8	93
99	U94M L44N: 52+25W	5	<.2	1.02	25	65	<5	0.23	<1	3	10	8	3.23	0.47	<10	0.09	479	3	<.01	3	680	12	<5	<20	17	0.02	<10	36	<10	8	162
100	U94M L44N: 52+50W	<5	<.2	1.21	25	70	5	0.20	<1	8	16	7	2.58	0.24	<10	0.22	219	1	<.01	8	980	<2	<5	<20	15	0.05	<10	47	<10	7	62
101	U94M L44N: 52+75W	<5	<.2	1.68	20	125	5	0.20	<1	9	21	10	2.28	0.09	<10	0.28	224	<1	<.01	7	1100	<2	<5	<20	18	0.11	<10	51	<10	7	91
102	U94A L45N: 40+00W	5	<.2	1.01	30	100	<5	0.31	<1	13	28	22	3.21	0.39	<10	0.25	392	3	0.02	7	710	<2	<5	<20	49	0.11	<10	61	<10	16	65
103	U94A L45N: 40+25W	<5	<.2	1.43	25	105	<5	0.50	<1	11	27	18	2.98	0.28	<10	0.37	362	2	0.02	10	800	<2	<5	<20	46	0.10	<10	59	<10	12	35
104	U94A L45N: 40+50W	<5	<.2	0.85	10	75	<5	0.28	<1	9	24	11	2.02	0.22	<10	0.24	244	<1	0.02	6	560	<2	<5	<20	22	0.14	<10	51	<10	6	26

PIONEER METALS CORPORATION ETK 94-462

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Et #.	Tag #	Au ppb	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	K %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
105	U94A L45N: 40+75W	<5	<.2	1.88	30	150	<5	0.28	<1	11	26	14	2.98	0.27	<10	0.34	386	1	0.02	11	750	<2	<5	<20	30	0.10	<10	63	<10	4	37
106	U94A L45N: 41+00W	<5	<.2	0.97	10	80	<5	0.40	<1	9	26	14	1.95	0.35	<10	0.27	218	<1	0.02	6	670	<2	<5	<20	29	0.15	<10	49	<10	14	24
107	U94A L45N: 41+25W	5	<.2	1.10	10	105	<5	0.28	<1	10	22	12	2.11	0.27	<10	0.29	223	<1	0.02	8	590	<2	<5	<20	24	0.14	<10	51	<10	7	27
108	U94A L45N: 41+50W	<5	<.2	0.82	15	85	<5	0.33	<1	9	20	12	2.12	0.44	<10	0.26	258	<1	0.02	6	660	<2	<5	<20	28	0.13	<10	51	<10	9	26
109	U94A L45N: 41+75W	<5	<.2	1.11	20	100	<5	0.24	<1	10	23	12	2.41	0.50	<10	0.25	266	1	0.02	7	550	<2	<5	<20	20	0.12	<10	55	<10	5	27
110	U94A L45N: 42+00W	<5	<.2	0.94	15	95	<5	0.25	<1	8	18	10	1.96	0.41	<10	0.23	195	<1	0.02	5	390	<2	<5	<20	21	0.11	<10	44	<10	6	25
111	U94A L45N: 42+25W	<5	<.2	0.88	15	90	<5	0.27	<1	7	16	7	1.33	0.55	<10	0.22	127	1	0.02	4	280	6	<5	<20	22	0.12	<10	31	<10	8	25
112	U94A L45N: 42+50W	<5	<.2	1.09	20	100	<5	0.20	<1	10	24	11	2.23	0.40	<10	0.26	198	1	0.01	7	400	<2	<5	<20	18	0.13	<10	53	<10	3	27
113	U94A L45N: 42+75W	<5	0.6	1.30	55	75	<5	0.08	<1	7	18	8	2.27	0.54	<10	0.17	313	9	0.01	6	790	2	<5	<20	8	0.06	<10	45	<10	1	34
114	U94A L45N: 43+00W	<5	<.2	0.80	20	70	<5	0.15	<1	6	15	8	1.33	0.31	<10	0.22	137	3	0.01	5	280	4	<5	<20	14	0.13	<10	34	<10	4	21
115	U94A L45N: 43+25W	20	<.2	1.39	35	90	5	0.18	<1	7	18	8	2.13	0.45	<10	0.18	192	5	0.01	5	500	<2	<5	<20	18	0.09	<10	46	<10	4	28
116	U94A L45N: 43+50W	<5	<.2	1.40	50	75	<5	0.10	<1	8	16	44	2.27	0.42	<10	0.15	171	4	0.01	4	610	<2	<5	<20	10	0.08	<10	45	<10	3	29
117	U94A L45N: 43+75W	<5	<.2	1.48	30	95	<5	0.27	<1	9	20	13	1.89	0.62	<10	0.22	242	2	0.02	5	450	6	<5	<20	23	0.12	<10	42	<10	7	23
118	U94A L45N: 44+00W	<5	<.2	0.71	5	40	<5	0.10	<1	2	6	4	0.43	0.61	<10	0.06	67	1	0.01	2	130	6	<5	<20	11	0.07	<10	12	<10	8	13
119	U94A L45N: 44+25W	<5	<.2	1.05	15	60	<5	0.15	<1	5	11	6	0.83	0.63	<10	0.13	92	2	0.01	3	200	8	<5	<20	15	0.11	<10	26	<10	7	14
120	U94A L45N: 44+50W	5	<.2	0.99	20	85	<5	0.34	<1	7	18	8	1.45	0.63	<10	0.18	174	1	0.02	4	520	6	<5	<20	31	0.13	<10	37	<10	10	20
121	U94A L45N: 44+75W	<5	<.2	0.69	10	65	<5	0.09	<1	2	6	4	0.73	0.62	<10	0.04	107	2	0.01	1	160	4	<5	<20	10	0.05	<10	20	<10	7	16
122	U94A L45N: 45+00W	5	<.2	1.67	25	100	<5	0.13	<1	10	23	12	2.40	0.48	<10	0.17	181	2	0.02	8	460	<2	<5	<20	19	0.13	<10	52	<10	3	29
123	U94A L45N: 45+25W	<5	<.2	1.04	10	75	<5	0.32	<1	8	18	9	1.43	0.53	<10	0.18	220	<1	0.02	5	470	<2	<5	<20	26	0.14	<10	37	<10	8	20
124	U94A L45N: 45+50W	<5	<.2	1.43	10	100	<5	0.32	<1	9	19	10	1.62	0.40	<10	0.25	167	<1	0.02	6	350	<2	<5	<20	28	0.16	<10	39	<10	6	18
125	U94A L45N: 45+75W	<5	<.2	1.14	10	85	<5	0.30	<1	8	21	10	1.77	0.69	<10	0.21	167	<1	0.02	5	370	2	<5	<20	26	0.16	<10	45	<10	8	19
126	U94A L45N: 46+00W	<5	<.2	1.07	10	75	<5	0.32	<1	6	15	8	1.30	0.63	<10	0.17	152	1	0.02	4	360	4	<5	<20	24	0.11	<10	28	<10	12	18
127	U94A L45N: 46+25W	5	<.2	1.15	10	75	<5	0.36	<1	8	20	11	1.57	0.44	<10	0.22	174	1	0.02	6	460	4	<5	<20	25	0.16	<10	42	<10	9	21
128	U94A L45N: 46+50W	5	<.2	1.61	15	115	<5	0.20	<1	10	24	12	2.34	0.33	<10	0.22	247	<1	0.02	7	530	<2	<5	<20	17	0.14	<10	54	<10	4	26
129	U94A L45N: 46+75W	<5	<.2	2.08	20	125	<5	0.20	<1	11	25	13	2.31	0.22	<10	0.22	261	1	0.02	8	570	<2	<5	<20	17	0.14	<10	51	<10	5	31
130	U94A L45N: 47+00W	<5	<.2	1.33	20	95	<5	0.30	<1	10	26	13	2.36	0.38	<10	0.22	243	<1	0.02	5	530	<2	<5	<20	27	0.17	<10	60	<10	11	27
131	U94A L45N: 47+25W	15	0.6	1.53	15	50	<5	0.09	<1	3	8	5	1.02	0.40	<10	0.09	108	1	0.01	3	440	4	<5	<20	8	0.04	<10	22	<10	11	46
132	U94A L45N: 47+50W	50	<.2	0.95	20	65	<5	0.15	<1	5	14	7	1.44	0.64	<10	0.13	135	<1	0.02	3	280	4	<5	<20	12	0.10	<10	31	<10	10	18
133	U94A L45N: 47+75W	35	<.2	2.18	25	70	<5	0.12	<1	7	16	8	1.99	0.55	<10	0.18	154	1	0.01	3	460	6	<5	<20	11	0.08	<10	38	<10	6	64
134	U94A L45N: 48+00W	<5	<.2	1.69	25	70	<5	0.20	<1	6	14	7	2.15	0.52	<10	0.16	202	<1	<.01	5	660	4	<5	<20	15	0.08	<10	35	<10	11	67
135	U94A L45N: 48+25W	10	<.2	1.37	20	80	<5	0.22	<1	8	18	10	2.10	0.33	<10	0.19	192	<1	0.01	7	510	<2	<5	<20	18	0.13	<10	48	<10	8	39
136	U94A L45N: 48+50W	<5	<.2	1.93	20	70	<5	0.20	<1	9	20	10	2.13	0.35	<10	0.19	219	1	0.01	7	600	<2	<5	<20	17	0.12	<10	46	<10	5	49
137	U94A L45N: 48+75W	<5	0.6	2.21	20	105	<5	0.25	<1	10	19	10	2.28	0.25	<10	0.25	405	1	0.01	9	550	<2	<5	<20	20	0.11	<10	49	<10	6	51
138	U94A L45N: 49+00W	<5	<.2	1.82	15	80	<5	0.20	<1	9	17	9	1.93	0.32	<10	0.21	217	1	0.01	6	580	<2	<5	<20	16	0.11	<10	43	<10	6	42
139	U94A L45N: 49+25W	<5	<.2	1.98	25	100	<5	0.20	<1	11	21	11	2.44	0.40	<10	0.22	300	1	0.01	7	800	<2	<5	<20	17	0.13	<10	53	<10	5	51
140	U94A L45N: 49+50W	<5	<.2	1.61	10	95	5	0.18	<1	8	13	7	1.86	0.48	<10	0.19	504	<1	<.01	8	770	<2	<5	<20	17	0.09	<10	38	<10	8	262
141	U94A L45N: 49+75W	<5	<.2	1.88	20	95	<5	0.18	<1	11	23	12	2.53	0.40	<10	0.20	513	1	0.01	8	650	<2	<5	<20	13	0.14	<10	55	<10	6	40
142	U94A L45N: 50+00W	<5	<.2	2.31	20	70	<5	0.11	<1	9	20	10	2.74	0.31	<10	0.21	330	1	0.01	7	840	<2	<5	<20	10	0.10	<10	52	<10	10	57

PIONEER METALS CORPORATION ETK 94-402

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Et #.	Tag #	Au ppb	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	K %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
143	U94M L49N: 40+00W	<5	<.2	0.94	20	45	<5	0.15	<1	7	15	8	1.75	0.58	<10	0.17	174	1	0.02	4	290	<2	<5	<20	12	0.11	<10	41	<10	7	23
144	U94M L49N: 40+25W	<5	0.4	1.81	40	100	<5	0.49	<1	13	26	22	2.96	0.48	<10	0.38	501	2	0.02	8	620	<2	<5	<20	37	0.12	<10	64	<10	8	48
145	U94M L49N: 40+50W	<5	<.2	0.76	20	35	<5	0.13	<1	5	10	6	1.42	0.71	<10	0.15	142	2	0.02	3	230	6	<5	<20	11	0.08	<10	28	<10	12	27
146	U94M L49N: 40+75W	<5	<.2	0.77	20	40	<5	0.09	<1	4	9	4	1.29	0.82	<10	0.10	116	2	0.02	2	230	2	<5	<20	9	0.04	<10	26	<10	12	27
147	U94M L49N: 41+00W	<5	<.2	1.05	30	70	<5	0.10	<1	5	13	6	1.90	0.80	<10	0.11	140	2	0.02	4	480	4	<5	<20	12	0.05	<10	37	<10	8	32
148	U94M L49N: 41+25W	15	<.2	1.62	30	85	<5	0.35	<1	8	18	10	2.38	0.89	<10	0.24	212	2	0.02	8	520	2	<5	<20	25	0.08	<10	45	<10	12	44
149	U94M L49N: 41+50W	5	<.2	1.40	20	70	5	0.20	<1	10	20	9	2.58	0.35	<10	0.23	251	1	0.01	7	430	<2	<5	<20	17	0.12	<10	55	<10	5	44
150	U94M L49N: 41+75W	<5	<.2	1.31	15	70	<5	0.25	<1	10	20	10	2.38	0.24	<10	0.22	260	1	0.01	5	640	<2	<5	<20	17	0.15	<10	56	<10	6	43
151	U94M L49N: 42+00W	<5	<.2	1.33	15	70	<5	0.24	<1	9	21	11	2.10	0.32	<10	0.22	222	1	0.01	9	370	<2	<5	<20	19	0.15	<10	50	<10	6	33
152	U94M L49N: 42+25W	<5	<.2	1.52	20	95	<5	0.18	<1	11	23	11	2.73	0.21	<10	0.21	242	1	0.02	7	490	<2	<5	<20	15	0.13	<10	63	<10	4	29
153	U94M L49N: 42+50W	<5	<.2	1.26	15	70	<5	0.23	<1	8	14	12	1.58	0.34	<10	0.28	146	<1	0.01	6	390	<2	<5	<20	21	0.12	<10	37	<10	4	18
154	U94M L49N: 42+75W	15	<.2	2.20	20	85	<5	0.14	<1	12	24	10	3.05	0.23	<10	0.22	304	1	<.01	8	980	<2	<5	<20	12	0.12	<10	66	<10	1	64
155	U94M L49N: 43+00W	20	<.2	1.78	25	105	<5	0.21	<1	12	22	10	3.15	0.16	<10	0.23	321	1	0.01	8	950	<2	<5	<20	18	0.12	<10	69	<10	1	44
156	U94M L49N: 43+25W	<5	1.2	9.65	60	260	<5	0.46	<1	25	47	46	6.44	0.79	<10	0.52	2885	5	0.02	18	1260	<2	<5	<20	45	0.02	20	109	<10	<1	126
157	U94M L49N: 43+50W	<5	<.2	2.11	15	100	<5	0.12	<1	11	20	9	3.17	<.01	<10	0.18	209	3	<.01	6	1650	<2	<5	<20	11	0.09	<10	65	<10	<1	178
158	U94M L49N: 43+75W	*	<.2	<.01	<5	<5	5	<.01	<1	<1	<1	3	<.01	0.27	<10	<.01	<1	<1	<.01	<1	<10	<2	<5	<20	<1	<.01	<10	<1	<10	<1	<1
159	U94M L49N: 44+00W	*	<.2	<.01	<5	<5	<5	<.01	<1	<1	<1	<1	<.01	0.04	<10	<.01	<1	<1	<.01	<1	<10	<2	<5	<20	<1	<.01	<10	<1	<10	<1	<1
160	U94M L49N: 44+25W	10	0.2	1.88	20	100	<5	0.34	<1	9	17	13	2.14	0.70	<10	0.32	428	3	0.02	7	450	4	<5	<20	29	0.06	<10	41	<10	12	53
161	U94M L49N: 44+50W	10	0.4	2.17	20	105	10	0.46	<1	9	17	14	2.39	0.63	<10	0.32	864	2	0.02	6	450	<2	<5	<20	35	0.05	<10	48	<10	11	65
162	U94M L49N: 44+75W	<5	1.0	2.74	15	140	10	0.30	<1	10	12	12	2.03	1.00	<10	0.19	1183	1	<.01	5	500	<2	<5	<20	28	0.01	<10	31	<10	8	96
163	U94M L49N: 45+00W	5	2.6	5.23	40	280	5	0.61	<1	12	21	27	3.16	1.29	<10	0.35	1093	3	<.01	9	880	44	<5	<20	50	<.01	<10	43	<10	8	160
164	U94A L51N: 34+00W	5	<.2	1.61	15	80	<5	0.27	<1	8	17	12	1.85	0.49	<10	0.25	190	<1	0.02	5	580	<2	<5	<20	22	0.13	<10	38	<10	6	26
165	U94A L51N: 34+25W	<5	<.2	1.77	25	85	<5	0.28	<1	9	18	13	2.36	0.73	<10	0.31	239	1	0.02	5	540	<2	<5	<20	25	0.13	<10	44	<10	5	30
166	U94A L51N: 34+50W	<5	<.2	1.85	25	75	<5	0.27	<1	10	19	15	2.57	0.63	<10	0.32	308	1	0.02	6	510	<2	<5	<20	23	0.11	<10	48	<10	5	35
167	U94A L51N: 34+75W	10	<.2	2.05	25	90	<5	0.28	<1	11	22	17	2.80	0.47	<10	0.39	324	2	0.02	6	560	<2	<5	<20	26	0.13	<10	56	<10	4	36
168	U94A L51N: 35+00W	10	<.2	1.61	25	85	<5	0.20	<1	8	15	12	2.24	0.32	<10	0.25	206	2	0.02	6	550	<2	<5	<20	18	0.10	<10	41	<10	4	30
169	U94A L51N: 35+25W	15	<.2	4.16	45	130	<5	0.19	<1	16	23	30	3.70	0.55	<10	0.38	309	3	0.02	15	810	<2	<5	<20	20	0.05	10	53	<10	<1	73
170	U94A L51N: 35+50W	<5	1.0	4.21	30	120	<5	0.25	<1	59	33	31	3.80	0.48	<10	0.49	1708	3	0.02	22	780	<2	<5	<20	23	0.10	10	67	<10	<1	77
171	U94A L51N: 35+75W	30	3.6	3.86	50	180	<5	0.27	<1	12	19	56	3.47	0.94	<10	0.37	226	4	0.03	12	1740	<2	<5	<20	39	0.03	<10	53	<10	4	53
172	U94A L51N: 36+00W	20	4.2	2.16	65	125	<5	0.85	<1	5	10	29	4.78	2.56	<10	0.37	190	5	0.05	5	4370	<2	<5	<20	57	<.01	10	57	<10	8	24
173	U94A L51N: 36+25W	20	0.8	1.66	65	100	5	0.40	<1	4	9	12	2.62	1.10	<10	0.18	85	10	0.03	4	1700	<2	<5	<20	23	<.01	10	38	<10	3	14
174	U94A L51N: 36+50W	5	0.2	3.13	45	145	<5	0.26	<1	16	24	39	3.39	0.61	<10	0.42	531	3	0.02	11	770	<2	<5	<20	23	0.10	<10	60	<10	2	68
175	U94A L51N: 36+75W	<5	0.2	1.49	20	60	<5	0.18	<1	7	14	10	1.94	0.61	<10	0.22	236	2	0.02	5	550	<2	<5	<20	15	0.11	<10	43	<10	6	27
176	U94A L51N: 37+00W	20	<.2	2.29	35	85	<5	0.28	<1	10	21	17	2.81	0.97	<10	0.34	305	3	0.02	7	400	<2	<5	<20	24	0.09	<10	49	<10	5	44
177	U94A L51N: 37+25W	40	<.2	1.69	25	55	<5	0.16	<1	8	15	10	1.96	0.66	<10	0.25	219	2	0.02	5	330	<2	<5	<20	14	0.12	<10	40	<10	7	29
178	U94A L51N: 37+50W	<5	0.6	1.86	30	55	<5	0.14	<1	7	13	11	1.98	1.08	<10	0.23	172	1	0.02	3	320	<2	<5	<20	13	0.07	<10	34	<10	8	37
179	U94A L51N: 37+75W	45	0.8	1.44	25	55	<5	0.15	<1	6	12	8	1.66	0.66	<10	0.17	288	1	0.02	4	570	<2	<5	<20	12	0.06	<10	35	<10	9	31
180	U94A L51N: 38+00W	50	1.2	1.44	30	45	<5	0.10	<1	5	10	8	1.55	0.67	<10	0.18	201	3	0.02	4	360	2	<5	<20	10	0.07	<10	28	<10	7	28

PIONEER METALS CORPORATION ETK 94-492

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Et #.	Tag #	Au ppb	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	K %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
181	U94A L51N: 38+25W	>1000	8.2	0.98	50	45	<5	0.08	<1	7	11	7	1.63	0.41	<10	0.14	304	21	0.01	3	290	4	<5	<20	9	0.08	<10	36	<10	5	22
182	U94A L51N: 38+50W	25	3.2	1.36	15	50	<5	0.10	<1	7	12	10	1.56	0.41	<10	0.13	312	3	<.01	3	450	<2	<5	<20	9	0.09	<10	37	<10	4	41
183	U94A L51N: 38+75W	<5	3.2	1.94	30	80	<5	0.15	<1	8	15	8	2.02	0.39	<10	0.13	994	9	<.01	5	870	<2	<5	<20	11	0.07	<10	41	<10	<1	80
184	U94A L51N: 39+00W	30	1.6	1.99	25	100	<5	0.16	<1	11	21	12	2.39	0.54	<10	0.20	338	3	0.01	6	660	<2	<5	<20	15	0.13	<10	54	<10	5	45
185	U94A L51N: 39+25W	20	<.2	2.51	25	95	<5	0.20	<1	10	19	11	2.37	0.33	<10	0.22	207	2	0.01	8	1000	<2	<5	<20	15	0.10	<10	50	<10	3	42
186	U94A L51N: 39+50W	20	0.2	1.73	25	75	<5	0.26	<1	12	21	12	2.49	0.55	<10	0.26	268	2	0.02	7	680	<2	<5	<20	19	0.15	<10	59	<10	5	26
187	U94A L51N: 39+75W	10	0.4	2.44	30	85	<5	0.08	<1	7	17	8	2.50	0.42	<10	0.15	439	4	0.01	4	600	<2	<5	<20	8	0.02	<10	50	<10	<1	48
188	U94A L51N: 40+00W	<5	<.2	2.20	25	85	<5	0.28	<1	12	23	15	2.69	0.26	<10	0.32	315	2	0.02	6	620	<2	<5	<20	23	0.12	<10	60	<10	3	31
189	U94A L53N: 32+00W	<5	0.6	2.42	60	85	<5	0.19	<1	11	20	18	3.42	0.38	<10	0.35	333	5	0.02	7	530	<2	<5	<20	18	0.04	<10	52	<10	<1	51
190	U94A L53N: 32+25W	30	<.2	1.35	20	55	<5	0.15	<1	8	13	9	1.69	0.40	<10	0.17	196	1	0.01	3	330	2	<5	<20	14	0.12	<10	40	<10	6	25
191	U94A L53N: 32+50W	<5	0.2	2.56	35	80	<5	0.09	<1	11	23	15	2.83	0.41	<10	0.24	281	3	0.01	8	1010	<2	<5	<20	9	0.07	<10	55	<10	2	46
192	U94A L53N: 32+75W	<5	0.4	1.67	20	85	5	0.27	<1	8	14	9	1.98	0.54	<10	0.24	328	2	0.01	4	890	<2	<5	<20	20	0.04	<10	38	<10	5	58
193	U94A L53N: 33+00W	<5	0.2	1.81	25	110	<5	0.33	<1	8	19	20	2.15	0.44	<10	0.25	154	2	0.02	6	860	<2	<5	<20	26	0.08	<10	43	<10	6	22
194	U94A L53N: 33+25W	<5	<.2	1.32	20	85	<5	0.28	<1	8	15	13	1.75	0.36	<10	0.23	162	1	0.02	6	830	2	<5	<20	19	0.10	<10	39	<10	5	21
195	U94A L53N: 33+50W	<5	<.2	1.44	15	95	<5	0.24	<1	9	23	10	1.54	0.36	<10	0.25	161	1	0.01	7	660	4	<5	<20	18	0.13	<10	38	<10	6	23
196	U94A L53N: 33+75W	<5	<.2	1.09	20	80	<5	0.18	<1	7	14	8	1.51	0.41	<10	0.18	156	1	0.02	5	400	4	<5	<20	16	0.11	<10	35	<10	6	18
197	U94A L53N: 34+00W	<5	<.2	1.41	20	80	5	0.11	<1	8	17	9	1.91	0.36	<10	0.19	194	1	0.01	5	350	<2	<5	<20	10	0.10	<10	43	<10	4	24
198	U94A L53N: 34+25W	<5	0.2	2.12	20	80	<5	0.11	<1	7	14	7	1.95	0.50	<10	0.17	149	1	0.01	5	630	<2	<5	<20	10	0.05	<10	38	<10	4	39
199	U94A L53N: 34+50W	<5	<.2	1.94	20	105	<5	0.17	<1	9	17	9	2.12	0.34	<10	0.21	217	2	0.02	7	450	<2	<5	<20	16	0.08	<10	42	<10	5	30
200	U94A L53N: 34+75W	<5	<.2	1.44	10	65	<5	0.16	<1	8	14	9	1.56	0.31	<10	0.23	164	1	0.01	5	260	2	<5	<20	15	0.14	<10	37	<10	5	26
201	U94A L53N: 35+00W	5	<.2	1.21	20	65	<5	0.24	<1	8	15	11	1.80	0.57	<10	0.22	212	<1	0.02	5	460	<2	<5	<20	20	0.12	<10	35	<10	6	23
202	U94A L53N: 35+25W	<5	<.2	1.69	25	95	<5	0.29	<1	9	19	15	2.15	0.36	<10	0.26	303	1	0.02	6	620	<2	<5	<20	28	0.12	<10	43	<10	6	36
203	U94A L53N: 35+50W	5	<.2	2.15	15	75	<5	0.15	<1	6	16	10	1.85	0.09	<10	0.22	164	1	0.01	6	420	<2	<5	<20	13	0.06	<10	37	<10	4	32
204	U94A L53N: 35+75W	<5	<.2	1.97	20	95	<5	0.34	<1	9	22	18	2.43	0.44	<10	0.32	226	1	0.02	7	580	<2	<5	<20	30	0.11	<10	44	<10	6	32
205	U94A L53N: 36+00W	<5	<.2	1.49	15	75	<5	0.28	<1	8	16	11	1.62	0.39	<10	0.23	149	<1	0.02	4	570	<2	<5	<20	20	0.12	<10	36	<10	5	21
206	U94A L53N: 36+25W	5	<.2	1.81	20	75	5	0.24	<1	9	17	13	2.00	0.39	<10	0.29	203	1	0.02	7	530	<2	<5	<20	19	0.12	<10	42	<10	4	27
207	U94A L53N: 36+50W	15	<.2	2.57	25	100	<5	0.33	<1	10	24	20	2.82	0.36	<10	0.39	232	1	0.02	7	490	<2	<5	<20	28	0.12	<10	50	<10	2	33
208	U94A L53N: 36+75W	<5	0.2	1.97	25	75	<5	0.27	<1	9	20	14	2.32	0.51	<10	0.31	203	2	0.02	7	530	<2	<5	<20	21	0.11	<10	43	<10	4	30
209	U94A L53N: 37+00W	<5	<.2	1.35	15	70	<5	0.27	<1	9	16	11	1.67	0.39	<10	0.26	186	<1	0.02	6	540	2	<5	<20	23	0.13	<10	37	<10	5	20
210	U94A L53N: 37+25W	<5	<.2	1.25	10	60	<5	0.22	<1	7	13	9	1.32	0.44	<10	0.23	147	<1	0.02	5	400	6	<5	<20	18	0.13	<10	28	<10	7	20
211	U94A L53N: 37+50W	5	<.2	1.99	25	95	<5	0.33	<1	10	21	16	2.61	0.67	<10	0.36	289	1	0.02	8	560	<2	<5	<20	29	0.12	<10	51	<10	6	36
212	U94A L53N: 37+75W	<5	0.2	1.59	20	75	<5	0.15	<1	11	20	13	2.26	0.30	<10	0.25	237	<1	0.02	6	410	<2	<5	<20	16	0.13	<10	53	<10	5	26
213	U94A L53N: 38+00W	<5	0.4	2.00	35	65	<5	0.13	<1	9	16	16	2.22	0.42	<10	0.27	193	4	0.01	6	410	<2	<5	<20	15	0.11	<10	46	<10	5	27
214	U94A L53N: 38+25W	<5	<.2	2.16	35	125	<5	0.18	<1	12	19	17	2.32	0.40	<10	0.28	208	2	0.01	8	430	<2	<5	<20	20	0.12	<10	47	<10	4	45
215	U94A L53N: 38+50W	<5	<.2	1.83	20	75	<5	0.23	<1	9	18	13	2.27	0.61	<10	0.31	211	1	0.02	5	500	<2	<5	<20	25	0.12	<10	44	<10	5	32
216	U94A L53N: 38+75W	<5	<.2	1.79	25	75	<5	0.24	<1	9	18	13	2.29	0.54	<10	0.30	235	1	0.02	6	450	<2	<5	<20	23	0.11	<10	45	<10	6	31
217	U94A L53N: 39+00W	<5	<.2	1.37	20	80	10	0.13	<1	10	18	9	2.22	0.31	<10	0.18	432	1	0.01	6	610	<2	<5	<20	13	0.11	<10	50	<10	3	36
218	U94A L53N: 39+25W	5	<.2	1.56	25	65	<5	0.19	<1	11	20	11	2.41	0.37	<10	0.23	274	2	0.02	7	480	<2	<5	<20	17	0.11	<10	53	<10	6	30

PIONEER METALS CORPORATION ETK 94-402

Eco-Tech Laboratories Ltd.

Et #.	Tag #	Au ppb	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	K %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
219	U94A L53N: 39+50W	<5	<.2	1.50	20	55	<5	0.17	<1	8	15	9	1.94	0.33	<10	0.22	188	1	0.02	5	560	<2	<5	<20	13	0.11	<10	46	<10	5	25
220	U94A L53N: 39+75W	<5	<.2	1.70	20	80	<5	0.22	<1	11	18	12	2.26	0.34	<10	0.27	256	1	0.02	7	530	<2	<5	<20	18	0.12	<10	54	<10	5	25
221	U94A L53N: 40+00W	<5	<.2	1.56	15	60	<5	0.18	<1	8	15	9	1.95	0.44	<10	0.23	200	1	0.02	5	520	<2	<5	<20	15	0.10	<10	46	<10	5	25
222	U94M L55N: 30+00W	<5	0.2	1.40	15	100	<5	0.32	<1	9	18	10	1.53	0.52	<10	0.26	283	1	0.01	6	440	2	<5	<20	25	0.10	<10	37	<10	7	38
223	U94M L55N: 30+25W	<5	<.2	2.50	30	130	<5	0.21	<1	10	22	14	2.43	0.46	<10	0.26	214	1	0.02	7	820	<2	<5	<20	16	0.09	<10	49	<10	5	32
224	U94M L55N: 30+50W	<5	<.2	2.01	15	85	<5	0.15	<1	8	15	9	1.79	0.32	<10	0.23	169	<1	0.01	6	480	<2	<5	<20	12	0.08	<10	38	<10	4	32
225	U94M L55N: 30+75W	<5	<.2	2.44	25	105	<5	0.20	<1	9	20	11	2.29	0.31	<10	0.24	212	1	0.01	8	910	<2	<5	<20	17	0.09	<10	46	<10	5	41
226	U94M L55N: 31+00W	<5	<.2	2.47	20	120	<5	0.13	<1	8	17	9	2.06	0.18	<10	0.21	178	1	0.01	7	660	<2	<5	<20	12	0.06	<10	41	<10	4	38
227	U94M L55N: 31+25W	<5	0.6	1.52	15	105	5	0.19	<1	5	12	6	1.12	0.39	<10	0.22	122	<1	0.01	5	210	6	<5	<20	18	0.05	<10	23	<10	7	28
228	U94M L55N: 31+50W	<5	0.2	1.43	15	85	<5	0.19	<1	7	13	8	1.31	0.50	<10	0.20	148	<1	0.01	5	440	4	<5	<20	14	0.09	<10	30	<10	7	27
229	U94M L55N: 31+75W	<5	0.4	1.15	15	70	<5	0.15	<1	6	12	7	1.08	0.42	<10	0.20	135	<1	0.01	4	280	8	<5	<20	13	0.10	<10	28	<10	6	28
230	U94M L55N: 32+00W	<5	<.2	1.57	15	105	<5	0.24	<1	8	16	10	1.62	0.46	<10	0.23	186	<1	0.01	7	420	<2	<5	<20	21	0.10	<10	35	<10	7	29
231	U94M L55N: 32+25W	<5	<.2	1.81	15	100	<5	0.26	<1	8	16	11	1.59	0.28	<10	0.24	182	<1	0.01	7	620	<2	<5	<20	20	0.10	<10	32	<10	7	33
232	U94M L55N: 32+50W	<5	0.4	3.81	25	155	<5	0.33	<1	8	24	14	2.50	0.36	<10	0.36	198	2	0.01	8	580	<2	<5	<20	28	0.03	<10	48	<10	5	57
233	U94M L55N: 32+75W	40	<.2	1.31	15	65	5	0.17	<1	6	13	8	1.43	0.37	<10	0.19	151	1	0.01	3	310	4	<5	<20	13	0.10	<10	36	<10	6	24
234	U94M L55N: 33+00W	20	<.2	1.54	15	75	5	0.21	<1	7	15	8	1.61	0.36	<10	0.22	165	1	0.01	5	350	<2	<5	<20	15	0.09	<10	38	<10	5	28
235	U94M L55N: 33+25W	5	<.2	1.15	15	75	<5	0.25	<1	7	14	10	1.29	0.36	<10	0.23	156	1	0.01	4	520	4	<5	<20	18	0.12	<10	30	<10	7	22
236	U94M L55N: 33+50W	<5	<.2	1.22	15	65	<5	0.20	<1	7	13	8	1.57	0.37	<10	0.20	185	<1	0.01	5	450	<2	<5	<20	14	0.11	<10	40	<10	6	22
237	U94M L55N: 33+75W	<5	<.2	1.08	10	80	<5	0.26	<1	7	13	7	1.17	0.48	<10	0.20	137	<1	0.01	4	530	4	<5	<20	21	0.12	<10	34	<10	7	19
238	U94D L55N: 34+00W	5	<.2	1.37	15	75	<5	0.23	<1	8	16	8	1.53	0.30	<10	0.22	177	1	0.01	5	360	<2	<5	<20	19	0.12	<10	36	<10	6	25
239	U94D L55N: 34+25W	15	<.2	2.11	15	110	<5	0.26	<1	8	19	10	1.85	0.38	<10	0.26	249	2	0.01	6	460	<2	<5	<20	24	0.08	<10	44	<10	5	38
240	U94D L55N: 34+50W	<5	<.2	1.51	15	85	<5	0.20	<1	8	17	10	1.53	0.36	<10	0.21	172	<1	0.01	6	370	<2	<5	<20	17	0.11	<10	35	<10	6	24
241	U94D L55N: 34+75W	<5	<.2	1.18	10	70	<5	0.22	<1	7	14	7	1.28	0.41	<10	0.19	150	1	0.01	4	380	<2	<5	<20	18	0.11	<10	31	<10	7	21
242	U94D L55N: 35+00W	10	<.2	0.97	10	70	<5	0.23	<1	7	13	8	1.16	0.40	<10	0.18	145	<1	0.01	3	300	4	<5	<20	21	0.12	<10	29	<10	7	18
243	U94D L55N: 35+25W	35	<.2	1.00	15	85	<5	0.31	<1	7	16	8	1.44	0.47	<10	0.19	210	1	0.02	4	520	4	<5	<20	27	0.11	<10	36	<10	7	21
244	U94D L55N: 35+50W	30	<.2	2.34	20	95	<5	0.23	<1	9	18	10	1.96	0.40	<10	0.29	287	2	0.01	6	460	<2	<5	<20	21	0.06	<10	41	<10	4	40
245	U94D L55N: 35+75W	20	<.2	1.39	15	65	<5	0.15	<1	6	12	7	1.15	0.33	<10	0.17	108	<1	0.01	4	350	<2	<5	<20	13	0.08	<10	29	<10	6	20
246	U94D L55N: 36+00W	10	<.2	1.14	10	50	<5	0.14	<1	6	9	7	1.09	0.35	<10	0.17	184	<1	0.01	3	270	4	<5	<20	12	0.11	<10	29	<10	5	20
247	U94D L55N: 36+25W	15	<.2	1.34	15	90	<5	0.23	<1	8	15	10	1.49	0.62	<10	0.20	185	<1	0.02	5	450	<2	<5	<20	23	0.12	<10	36	<10	7	24
248	U94D L55N: 36+50W	25	<.2	1.58	10	80	<5	0.19	<1	8	14	9	1.39	0.27	<10	0.22	165	<1	0.01	5	450	<2	<5	<20	16	0.11	<10	30	<10	6	26
249	U94D L55N: 36+75W	10	<.2	1.12	10	65	<5	0.19	<1	7	13	8	1.24	0.48	<10	0.19	169	<1	0.01	4	320	4	<5	<20	17	0.13	<10	31	<10	6	22
250	U94D L55N: 37+00W	10	<.2	1.48	10	70	<5	0.16	<1	8	13	9	1.30	0.39	<10	0.21	153	<1	0.01	5	300	<2	<5	<20	13	0.12	<10	29	<10	5	22
251	U94D L55N: 37+25W	<5	<.2	1.49	15	60	<5	0.13	<1	8	14	8	1.48	0.40	<10	0.16	140	1	0.01	4	420	<2	<5	<20	11	0.10	<10	35	<10	4	24
252	U94D L55N: 37+50W	<5	<.2	1.98	20	80	<5	0.22	<1	9	19	12	2.31	0.30	<10	0.29	258	1	0.02	7	600	<2	<5	<20	17	0.11	<10	50	<10	5	34
253	U94D L55N: 37+75W	<5	<.2	1.75	15	70	<5	0.20	<1	8	16	11	2.09	0.37	<10	0.26	219	<1	0.01	6	500	<2	<5	<20	15	0.11	<10	44	<10	4	29
254	U94D L55N: 38+00W	5	<.2	1.97	20	80	<5	0.25	<1	9	20	14	2.26	0.30	<10	0.32	207	<1	0.02	7	520	<2	<5	<20	20	0.12	<10	46	<10	4	26
255	U94D L55N: 38+25W	<5	<.2	1.93	15	60	<5	0.16	<1	9	16	10	2.05	0.25	<10	0.31	197	1	0.01	5	580	<2	<5	<20	13	0.10	<10	42	<10	3	32
256	U94D L55N: 38+50W	<5	<.2	1.26	15	50	<5	0.13	<1	7	14	7	1.70	0.43	<10	0.16	240	1	0.01	4	390	4	<5	<20	10	0.10	<10	43	<10	5	28

PIONEER METALS CORPORATION ETK 94-402

Eco-Tech Laboratories Ltd.

Et #.	Tag #	Au ppb	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	K %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
257	U94D L56N: 38+75W	<5	<.2	1.48	15	85	<5	0.21	<1	11	18	12	2.25	0.38	<10	0.27	266	2	0.01	12	530	2	<5	<20	17	0.15	<10	55	<10	4	32
258	U94D L56N: 39+00W	<5	<.2	1.71	20	70	<5	0.25	<1	11	19	14	2.34	0.27	<10	0.34	301	1	0.02	7	530	<2	<5	<20	19	0.13	<10	54	<10	4	28
259	U94D L56N: 39+25W	<5	<.2	2.40	20	90	<5	0.27	<1	12	23	16	2.84	0.26	<10	0.37	327	1	0.02	8	700	<2	<5	<20	20	0.13	<10	62	<10	3	39
260	U94D L56N: 39+50W	<5	<.2	2.11	20	85	<5	0.23	<1	11	21	15	2.65	0.21	<10	0.33	260	1	0.02	7	640	<2	<5	<20	18	0.13	<10	60	<10	4	33
261	U94D L56N: 39+75W	<5	<.2	2.03	15	75	<5	0.22	<1	10	19	13	2.27	0.24	<10	0.35	232	1	0.02	7	420	<2	<5	<20	19	0.13	<10	51	<10	5	26
262	U94D L56N: 40+00W	<5	<.2	2.41	20	95	<5	0.26	<1	13	23	14	2.89	0.26	<10	0.34	357	1	0.02	9	820	<2	<5	<20	21	0.12	<10	64	<10	4	43
263	U94M L56N: 27+25W	<5	<.2	2.03	20	110	<5	0.21	<1	10	21	13	2.05	0.20	<10	0.29	212	2	0.01	8	590	<2	<5	<20	17	0.12	<10	47	<10	3	23
264	U94M L56N: 27+50W	65	<.2	1.55	10	70	<5	0.20	<1	8	15	9	1.51	0.30	<10	0.26	165	<1	0.01	5	450	<2	<5	<20	14	0.12	<10	34	<10	5	20
265	U94M L56N: 27+75W	<5	<.2	1.89	20	100	<5	0.22	<1	10	20	12	2.13	0.20	<10	0.29	225	1	0.02	7	490	<2	<5	<20	16	0.12	<10	50	<10	3	25
266	U94M L56N: 28+00W	<5	<.2	4.24	30	120	<5	0.14	<1	11	25	13	2.87	0.11	<10	0.27	175	2	0.01	9	1090	<2	<5	<20	11	0.06	<10	53	<10	1	47
267	U94M L56N: 28+25W	<5	<.2	2.64	20	110	<5	0.23	<1	12	21	14	2.17	0.10	<10	0.31	214	<1	0.01	9	540	<2	<5	<20	18	0.13	<10	48	<10	2	29
268	U94M L56N: 28+50W	<5	<.2	2.32	15	105	<5	0.23	<1	10	18	13	1.80	0.23	<10	0.27	171	<1	0.01	8	580	<2	<5	<20	18	0.12	<10	38	<10	3	22
QC/DATA:																															
Repeat #:																															
1	U94A L40N: 53+50W		<.2	3.00	45	150	<5	0.40	<1	10	32	15	3.21	0.34	<10	0.30	419	2	0.02	14	1150	14	<5	<20	35	0.02	<10	55	<10	23	53
39	U94A L42N: 54+75W		<.2	1.56	20	135	<5	0.27	<1	11	29	21	2.77	0.19	<10	0.31	250	<1	0.02	8	640	8	<5	<20	29	0.18	<10	59	<10	10	25
77	U94M L43N: 50+00W		<.2	1.54	20	90	<5	0.20	<1	8	18	9	2.00	0.38	<10	0.23	179	<1	0.01	6	650	<2	<5	<20	15	0.09	<10	43	<10	5	38
115	U94A L45N: 43+26W		<.2	1.51	35	95	<5	0.19	<1	8	18	8	2.22	0.38	<10	0.18	205	5	0.02	6	510	<2	<5	<20	16	0.10	<10	47	<10	4	28
153	U94M L48N: 42+50W		<.2	1.27	15	75	<5	0.24	<1	8	15	11	1.60	0.38	<10	0.25	151	<1	0.01	5	390	<2	<5	<20	23	0.13	<10	38	<10	4	19
191	U94A L53N: 32+50W		<.2	2.43	30	80	<5	0.09	<1	10	22	14	2.79	0.38	<10	0.24	265	2	0.01	8	990	<2	<5	<20	9	0.06	<10	57	<10	2	45
229	U94M L55N: 31+75W		0.4	1.17	10	65	<5	0.14	<1	6	11	6	1.02	0.42	<10	0.19	125	<1	0.01	5	230	6	<5	<20	12	0.10	<10	26	<10	5	26
267	U94M L56N: 28+25W		<.2	2.59	15	105	<5	0.21	<1	11	21	13	2.10	0.14	<10	0.30	208	<1	0.01	9	520	<2	<5	<20	18	0.13	<10	46	<10	2	26
Standard 1991:			1.0	1.90	70	150	<5	2.00	1	25	75	84	4.20	0.45	<10	1.10	740	<1	<.01	21	740	14	<5	<20	58	0.12	<10	80	<10	7	76
			1.0	1.91	75	155	<5	1.98	<1	26	72	82	4.10	0.42	<10	1.11	730	<1	0.01	20	710	16	<5	<20	59	0.13	<10	86	<10	7	70
			1.0	1.90	70	150	5	2.11	<1	26	70	90	4.10	0.40	<10	1.03	725	<1	0.02	21	730	14	<5	<20	59	0.12	<10	84	<10	<1	76
			1.4	2.00	70	150	<5	2.10	<1	26	72	90	4.57	0.42	<10	1.01	730	<1	0.02	21	750	10	<5	<20	65	0.14	10	88	<10	5	70
			1.4	1.90	70	155	<5	1.98	<1	24	74	80	4.30	0.46	<10	1.01	720	<1	0.02	20	770	10	<5	<20	62	0.13	<10	86	<10	4	72
			1.4	1.90	65	165	<5	2.02	<1	24	73	90	4.27	0.42	<10	0.99	740	<1	0.01	20	770	12	<5	<20	58	0.12	10	84	<10	6	74
			1.6	2.10	70	170	<5	1.95	<1	24	71	90	4.27	0.46	<10	1.01	730	<1	0.01	20	720	14	<5	<20	57	0.12	10	86	<10	5	70
			1.4	1.90	70	145	<5	2.00	<1	24	72	90	4.20	0.42	<10	0.97	779	<1	0.02	19	740	10	<5	<20	65	0.14	<10	88	<10	<1	68

Note: * = No Sample

ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

XLS/Pioneer

7-Jul-94

ECO-TECH LABORATORIES LTD.
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PIONEER METALS CORPORATION ETK 94-348
1770-401 W.Georgia Street
VANCOUVER, B.C.
V6B 5A1

ATTENTION: David Dunn / David Tupper

24 ROCK samples received June 21, 1994
PROJECT # UDUK LAKE

Values in ppm unless otherwise reported

Et #.	Tag #	Au (ppb)	Ag	Al %	As	B	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	K %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	94 UTR-1	60	<.2	0.17	90	6	50	<5	0.02	2	1	212	5	0.60	0.11	10	<.01	32	24	<.01	2	50	8	<5	220	2	<.01	<10	2	<10	4	5
2	94 UTR-2	5	1.0	0.24	25	8	65	<5	0.03	<1	1	220	4	0.38	0.11	20	<.01	63	20	<.01	5	60	8	<5	240	8	<.01	<10	2	<10	3	6
3	92 UTR-3	45	5.6	0.37	85	6	30	<5	<.01	1	1	208	7	1.20	<.01	<10	<.01	26	21	<.01	2	60	6	<5	200	4	<.01	<10	4	<10	<1	4
4	92 UTR-4	60	2.2	0.20	95	6	95	<5	<.01	2	1	259	5	0.93	0.13	10	<.01	38	38	<.01	5	40	12	<5	280	5	<.01	<10	3	<10	2	9
5	94 UTR-5	160	0.2	0.23	85	6	45	<5	<.01	1	<1	154	5	0.72	0.19	20	<.01	28	19	<.01	1	20	12	<5	160	3	<.01	<10	<1	<10	3	5
6	94 UTR-6	10	<.2	0.34	<5	6	45	<5	0.04	<1	<1	108	2	0.43	0.27	40	<.01	38	7	0.02	2	160	14	<5	100	1	<.01	<10	<1	<10	22	14
7	94 UTR-7	10	<.2	0.41	<5	6	40	<5	0.04	<1	1	88	4	1.06	0.24	40	<.01	94	5	0.03	2	90	10	<5	80	5	0.02	<10	<1	<10	19	41
8	94 UTF-8	160	<.2	0.25	35	8	30	<5	0.01	<1	1	245	5	0.78	0.14	<10	<.01	44	20	<.01	6	60	10	<5	260	<1	<.01	<10	2	<10	3	14
9	94 UTF-9	20	4.8	0.22	30	14	75	<5	0.01	<1	1	164	5	0.53	0.16	10	<.01	34	156	<.01	6	50	10	<5	180	1	<.01	<10	1	<10	5	13
10	94 UTR-10	530	3.2	0.18	495	8	85	<5	<.01	8	1	173	6	1.34	0.15	<10	<.01	94	34	<.01	4	60	16	<5	160	<1	<.01	<10	<1	<10	2	6
11	94 UTR-11	5	<.2	0.27	55	6	60	<5	<.01	1	1	151	4	0.65	0.19	20	<.01	45	24	<.01	5	50	10	<5	160	<1	<.01	<10	<1	<10	5	11
12	94 UTC-12	5	<.2	0.47	60	6	40	<5	0.04	<1	1	121	4	1.16	0.28	20	<.01	49	9	<.01	2	60	10	<5	100	5	<.01	<10	<1	<10	14	17
13	94 UTF-13	5	<.2	0.19	50	8	100	<5	<.01	1	1	182	3	1.31	0.22	10	<.01	21	15	0.03	3	60	8	<5	180	3	<.01	<10	<1	<10	8	7
14	94 UTF-14	5	<.2	0.23	45	8	120	<5	0.04	<1	1	127	3	0.55	0.15	20	<.01	88	12	0.03	2	80	16	<5	140	8	<.01	<10	<1	<10	12	11
15	94 UTF-15	5	<.2	0.23	1360	8	160	<5	0.04	22	2	191	7	1.49	0.18	20	<.01	90	16	0.04	4	350	6	5	160	24	<.01	<10	<1	<10	14	24
16	94 UTR-16	5	<.2	0.35	10	8	55	<5	0.10	<1	2	110	4	1.54	0.06	20	0.02	390	10	0.03	1	150	8	<5	80	5	0.02	<10	<1	<10	26	103
17	94 UTF-17	5	<.2	0.39	195	6	135	<5	0.05	3	1	119	3	1.35	0.17	30	<.01	37	10	0.04	2	90	10	<5	100	16	<.01	<10	1	<10	18	11
18	94 UTF-18	10	<.2	0.21	435	10	215	<5	0.06	8	1	95	5	1.59	0.13	20	<.01	33	24	0.02	<1	70	8	<5	80	13	<.01	<10	<1	<10	14	8
19	94 UTR-19	335	3.6	0.18	810	10	100	<5	<.01	13	2	171	6	1.72	0.22	<10	<.01	80	43	<.01	7	50	10	10	160	6	<.01	<10	<1	<10	2	8
20	94 UTF-20	555	4.8	0.17	785	12	40	<5	<.01	13	2	207	8	2.58	0.15	<10	<.01	60	126	<.01	4	20	12	5	160	7	<.01	<10	<1	<10	<1	8
21	94 UTC-21	350	2.6	0.19	535	10	110	<5	<.01	9	1	164	4	1.04	0.21	20	<.01	163	78	<.01	6	110	12	10	160	4	<.01	<10	<1	<10	4	5
22	94 UTC-22	160	1.4	0.26	205	8	170	<5	<.01	3	1	147	5	0.78	0.20	20	<.01	91	31	<.01	3	40	12	<5	140	6	<.01	<10	<1	<10	5	6
23	94 UTC-23	5	<.2	0.19	85	8	65	<5	<.01	1	<1	129	3	0.35	0.17	20	<.01	79	14	<.01	5	50	8	<5	140	<1	<.01	<10	<1	<10	4	4
24	94 UTC-24	24	0.2	0.24	60	8	105	<5	<.01	1	<1	150	3	0.38	0.17	20	<.01	29	14	<.01	3	50	14	<5	160	<1	<.01	<10	1	<10	6	6

12-Jul-94

ECO-TECH LABORATORIES LTD.
10041 East Trans Canada Highway
KAMLOOPS, B.C.
V2C 2J3

Phone: 604-573-5700
Fax : 604-573-4557

PIONEER METALS CORPORATION ETK 94-389
1770-401 W.Georgia Street
VANCOUVER, B.C.
V6B 5A1

ATTENTION: David Tupper

7 ROCK samples received June 28, 1994
Shipment #: 2
Project #: Uduk Lake

Values in ppm unless otherwise reported

Et #	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	K %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	94UTC:025	1.4	0.27	165	200	<5	<.01	<1	<1	183	5	1.00	0.68	<10	0.04	48	51	0.02	7	90	12	<5	<20	11	<.01	<10	7	<10	6	4
2	94UTC:026	1.4	0.22	145	165	<5	<.01	<1	<1	149	2	0.79	0.66	<10	0.01	22	46	0.02	2	90	12	<5	<20	8	<.01	<10	6	<10	6	3
3	94UTC:027	1.2	0.21	195	140	<5	<.01	<1	<1	151	2	0.77	0.67	<10	<.01	35	44	0.02	3	80	10	<5	<20	7	<.01	<10	6	<10	6	3
4	94UTC:028	3.8	0.21	505	165	<5	<.01	<1	<1	176	3	1.44	0.78	<10	0.01	43	66	0.02	3	80	16	<5	<20	14	<.01	<10	8	<10	4	5
5	94UTC:029	1.4	0.26	160	160	<5	<.01	<1	<1	223	3	0.82	0.66	<10	<.01	38	43	0.02	5	70	12	<5	<20	8	<.01	<10	7	<10	6	2
6	94UTF:030	8.6	0.46	200	30	<5	<.01	<1	<1	237	5	1.75	<.01	<10	<.01	26	28	<.01	3	140	10	<5	<20	19	<.01	<10	9	<10	4	<1
7	94UTR031	0.6	0.25	105	70	<5	0.02	<1	<1	198	2	0.71	0.80	<10	0.04	44	33	0.02	5	50	32	<5	<20	3	<.01	<10	6	<10	3	2

QC DATA

Repeat #:																														
1	94UTC:025	1.4	0.26	165	195	<5	<.01	<1	<1	181	5	0.99	0.82	<10	0.04	54	50	0.02	7	90	10	<5	<20	11	<.01	<10	7	<10	6	4
Standard 1991:		1.4	1.97	85	160	<5	1.67	<1	17	66	83	3.82	0.38	<10	0.69	710	<1	0.01	28	710	24	<5	<20	80	0.12	<10	76	10	6	78

FEED FAX THIS END
FAX
To: David Tupper
Dept:
Fax No: 669-1212
No. of Pages: 1
From: Sudy B.
Date:
Company:
Fax No.:
Comments: Results Pg 1 of 1

ECO-TECH LABORATORIES LTD.
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B.C. Certified Assayer

XLS/Planner

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ENVIRONMENTAL TESTING

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Fax (604) 573-4557

CERTIFICATE OF ASSAY ETK 94-380

PIONEER METALS CORP.
1771-401 W. GEORGIA ST.
VANCOUVER, B.C
V6B 5A1

8-Jul-94

ATTENTION: DAVID TUPPER

7 ROCK samples received June 28, 1994
Project: Uduk Lake

ET #.	Description	Au ppb
1	94UTC:025	105
2	94UTC:026	10
3	94UTC:027	65
4	94UTC:028	410
5	94UTC:029	65
6	94UTF:030	20
7	94UTR031	55

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Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

XLS/Pioneer

12-Jul-94

ECO-TECH LABORATORIES LTD.
10041 East Trans Canada Highway
KAMLOOPS, B.C.
V2C 2J3

Phone: 604-573-5700
Fax : 604-573-4557

PIONEER METALS CORPORATION ETK 94-091
1770-401 W.Georgia Street
VANCOUVER, B.C.
V6B 5A1

ATTENTION: David Tupper

2 ROCK samples received July 4, 1994
Shipment #: 3
Project #: Udsk Lake

Values in ppm unless otherwise reported

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	K %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	94UTF-032	2.2	0.20	110	510	<5	0.04	<1	2	320	<1	0.82	0.23	<10	0.02	47	81	<.01	5	10	18	<5	<20	11	<.01	<10	19	<10	2	4
2	94UTR-033	8.8	0.39	985	80	<5	0.03	<1	2	172	<1	2.64	0.47	<10	0.01	83	100	0.02	6	80	20	25	<20	20	<.01	<10	17	<10	3	7
QC DATA																														
Repeat #:																														
1	94UTF-032	2.2	0.18	110	495	<5	0.02	<1	2	298	<1	0.59	0.24	<10	<.01	50	77	<.01	3	10	16	<5	<20	9	<.01	<10	17	<10	2	1
Standard 1991:		1.2	1.64	55	155	<5	1.66	<1	24	72	66	3.74	0.25	<10	2.17	717	2	0.01	22	780	22	<5	<20	51	0.11	<10	71	<10	2	77

Pioneer/XLS

FEED FAX THIS END
FAX
To: David Tupper
Dept.: Pioneer
Fax No.: 66 1240
No. of Pages: Vicki
From: July 13/94
Date: Eco Tech
Company:
Fax No.: ETK-94-39
Comments: Regards
Reply

ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

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ENVIRONMENTAL TESTING

10041 E. Trans Canada Hwy., R.R. #2, Kamloops, B.C. V2C 2J3 Phone (604) 573-5700
Fax (604) 573-4557

CERTIFICATE OF ANALYSIS ETK 401

PIONEER METALS CORPORATION
1770-401 W.Georgia Street
VANCOUVER, B.C.
V6B 5A1

July 11, 1994

ATTENTION: David Tupper

2 ROCK samples received July 4, 1994
Shipment #: 3
Project #: Uduk Lake

Et #.	Tag #	Au ppb
1	94UTF-032	75
2	94UTR-033	355

ECO-TECH LABORATORIES LTD.
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B.C. Certified Assayer

XLS/Pioneer

22-Jul-94

COPY

ECO-TECH LABORATORIES LTD.
10041 East Trans Canada Highway
KAMLOOPS, B.C.
V2C 2J3

Phone: 604-573-5700
Fax : 604-573-4557

PIONEER METALS CORPORATION ETK 94-468
1770-401 W.Georgia Street
VANCOUVER, B.C.
V6B 5A1

ATTENTION: David Dunn

133 ROCK samples received July 14, 1994

Shipment #: 4
Project #: UDUK LAKE

Values in ppm unless otherwise reported

Et #.	Tag #	Au (ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	94 UTC O35	20	1.4	0.21	70	265	<5	0.04	<1	<1	126	4	0.42	<10	0.02	26	11	0.02	2	60	4	<5	<20	12	<.01	<10	7	<10	9	4
2	94 UTC O36	650	>30	0.21	115	125	<5	0.04	<1	<1	134	10	0.59	<10	0.01	21	12	0.02	2	60	10	<5	<20	8	<.01	<10	7	<10	9	7
3	94 UTC O37	10	1.2	0.20	45	75	<5	0.03	<1	<1	196	3	0.36	<10	<.01	23	13	0.02	3	40	6	<5	<20	7	<.01	<10	8	<10	6	6
4	94 UTC O38	50	2.0	0.31	145	125	<5	0.01	<1	1	249	4	0.78	<10	<.01	40	29	0.02	3	60	8	<5	<20	8	<.01	<10	11	<10	9	5
5	94 UTC O39	60	1.6	0.22	135	145	<5	0.01	<1	<1	159	2	0.78	<10	<.01	25	20	0.02	2	60	8	<5	<20	8	<.01	<10	9	<10	8	3
6	94 UTC O40	110	4.2	0.30	270	130	<5	<.01	<1	<1	202	4	1.16	<10	<.01	29	41	0.03	3	60	6	10	<20	11	<.01	<10	12	<10	8	4
7	94 UTC O41	5	0.8	0.32	80	210	<5	0.03	<1	1	186	2	0.56	<10	<.01	22	13	0.02	1	60	8	<5	<20	7	<.01	<10	8	<10	15	2
8	94 UTC O42	80	3.2	0.24	250	110	<5	<.01	<1	<1	208	6	1.57	<10	<.01	32	45	0.03	2	60	8	<5	<20	17	<.01	<10	14	<10	8	3
9	94 UTC O43	75	2.0	0.29	210	135	<5	0.01	<1	<1	117	2	1.01	<10	<.01	57	17	0.03	<1	60	12	<5	<20	13	<.01	<10	7	<10	8	11
10	94 UTC O44	25	1.2	0.32	100	160	<5	<.01	<1	<1	236	2	0.53	<10	<.01	23	20	0.02	4	50	4	<5	<20	6	<.01	<10	8	<10	11	3
11	94 UTC O45	10	0.8	0.27	45	80	<5	0.02	<1	<1	158	2	0.41	<10	<.01	22	9	0.02	2	50	2	<5	<20	5	<.01	<10	5	<10	9	4
12	94 UTC O46	95	3.4	0.27	265	120	<5	0.01	<1	1	235	3	1.44	<10	<.01	39	48	0.03	3	50	6	5	<20	13	<.01	<10	15	<10	7	7
13	94 UTC O47	200	7.0	0.21	515	30	<5	<.01	<1	1	189	7	2.20	<10	<.01	57	72	0.03	2	40	8	10	<20	8	<.01	<10	18	<10	3	16
14	94 UTC O48	65	2.6	0.41	175	155	<5	0.02	<1	<1	160	3	0.86	<10	<.01	18	35	0.03	3	60	8	<5	<20	15	<.01	<10	12	<10	10	3
15	94 UTC O49	75	2.4	0.38	320	235	<5	0.01	<1	<1	134	2	0.97	<10	<.01	17	35	0.03	1	70	10	<5	<20	16	<.01	<10	11	<10	10	4
16	94 UTC O50	30	1.8	0.60	230	180	<5	0.03	<1	<1	154	2	0.86	<10	<.01	16	15	0.03	2	50	4	<5	<20	15	<.01	<10	6	<10	8	5
17	94 UTC O51	35	2.0	0.30	170	140	<5	0.03	<1	1	127	3	0.80	<10	<.01	18	13	<.01	2	50	10	<5	<20	12	<.01	<10	5	<10	9	41
18	94 UTC O52	45	2.6	0.30	140	145	<5	0.02	<1	<1	146	2	0.55	<10	<.01	28	16	0.02	2	60	6	<5	<20	11	<.01	<10	7	<10	8	3
19	94 UTC O53	20	1.2	0.19	85	55	<5	0.02	<1	<1	137	2	0.44	<10	<.01	22	12	0.02	1	40	4	<5	<20	5	<.01	<10	6	<10	8	1
20	94 UTC O54	<5	<.2	0.49	10	35	<5	0.06	<1	1	125	2	1.15	<10	0.01	102	8	0.02	1	70	8	<5	<20	9	<.01	<10	4	10	18	31
21	94 UTC O55	<5	0.4	0.47	15	30	<5	0.06	<1	1	75	3	1.31	<10	0.01	110	4	0.03	<1	70	8	<5	<20	9	0.02	<10	4	<10	36	30
22	94 UTC O56	<5	0.4	0.46	10	35	<5	0.04	<1	1	117	3	1.78	<10	0.01	98	7	0.04	<1	70	6	<5	<20	8	0.02	<10	4	<10	36	25
23	94 UTC O57	<5	0.4	0.52	15	40	<5	0.06	<1	1	76	4	1.73	<10	0.02	113	5	0.04	<1	90	6	<5	<20	12	0.02	<10	5	<10	42	26
24	94 UTC O58	<5	0.6	0.51	15	40	<5	0.05	<1	<1	129	4	1.29	<10	0.01	91	8	0.02	1	70	6	<5	<20	8	<.01	<10	5	<10	20	22
25	94 UTC O59	<5	0.4	0.48	20	50	<5	0.11	<1	2	120	5	2.10	<10	0.03	179	8	0.03	1	70	10	<5	<20	18	0.01	<10	9	<10	18	35
26	94 UTC O60	10	4.4	0.44	50	30	<5	0.02	<1	<1	158	4	0.87	<10	<.01	19	18	0.02	2	50	6	<5	<20	4	<.01	<10	8	<10	22	14
27	94 UTC O61	30	0.8	0.65	35	30	<5	0.04	<1	<1	136	3	1.55	<10	<.01	21	10	0.02	<1	80	8	<5	<20	5	<.01	<10	5	10	26	26
28	94 UTC O62	10	2.0	0.66	40	40	<5	0.04	<1	<1	107	3	1.17	<10	<.01	31	8	0.03	1	70	6	<5	<20	6	<.01	<10	5	<10	25	19
29	94 UTC O63	<5	0.8	0.52	30	60	<5	0.05	<1	<1	101	3	1.13	<10	0.01	62	6	0.03	<1	70	6	<5	<20	9	<.01	<10	3	<10	28	18
30	94 UTC O64	10	0.6	0.62	40	40	<5	0.04	<1	<1	128	4	1.15	<10	<.01	22	8	0.02	1	60	4	<5	<20	8	<.01	<10	4	<10	15	20

PIONEER METALS CORPORATION ETK 94-458

ECO-TECH LABORATORIES LTD.

Et #.	Tag #	Au (ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
71	94 UTC 105	<5	0.8	0.32	50	25	<5	0.07	<1	<1	65	2	0.66	<10	0.02	16	6	0.02	<1	70	4	<5	<20	8	<.01	<10	3	<10	34	11
72	94 UTC 106	25	0.6	0.34	30	40	<5	0.06	<1	<1	193	2	0.47	<10	0.01	18	16	0.02	2	30	4	<5	<20	8	< 01	<10	8	<10	16	6
73	94 UTC 107	15	0.6	0.18	55	35	<5	0.06	<1	<1	129	1	0.47	<10	<.01	20	11	0.01	2	30	4	<5	<20	7	< 01	<10	6	<10	12	5
74	94 UTC 108	5	0.6	0.20	15	35	<5	0.04	<1	<1	217	2	0.38	<10	<.01	24	16	0.01	2	30	6	<5	<20	6	<.01	<10	8	<10	8	3
75	94 UTC 109	10	0.6	0.25	50	40	<5	0.04	<1	<1	86	2	0.44	<10	<.01	11	10	0.02	<1	60	4	<5	<20	6	< 01	<10	4	<10	24	7
76	94 UTC 110	5	0.4	0.33	10	25	<5	0.06	<1	<1	93	1	0.69	<10	0.01	29	7	0.02	<1	70	4	<5	<20	8	<.01	<10	4	<10	33	14
77	94 UTC 111	10	0.4	0.23	20	20	<5	0.06	<1	<1	73	1	0.73	<10	0.01	27	5	0.01	<1	30	6	<5	<20	7	<.01	<10	3	<10	10	13
78	94 UTC 112	5	0.2	0.26	35	25	<5	0.06	<1	<1	100	2	0.62	<10	0.01	18	8	0.02	<1	50	4	<5	<20	7	<.01	<10	4	10	15	16
79	94 UTC 113	5	0.6	0.27	10	20	<5	0.05	<1	<1	56	<1	0.52	<10	<.01	24	4	0.02	<1	60	4	<5	<20	7	<.01	<10	2	<10	35	14
80	94 UTC 114	30	0.2	0.31	15	35	<5	0.06	<1	<1	132	2	0.67	<10	0.01	24	10	0.02	1	40	4	<5	<20	8	<.01	<10	5	<10	13	9
81	94 UTC 115	5	0.6	0.25	15	25	<5	0.07	<1	<1	84	2	0.72	<10	0.01	34	6	0.02	<1	40	6	<5	<20	8	<.01	<10	5	<10	8	13
82	94 UTC 116	5	<.2	0.36	15	35	<5	0.14	<1	1	67	14	0.56	<10	0.02	81	6	0.01	<1	60	4	<5	<20	11	<.01	<10	9	<10	13	17
83	94 UTC 117	5	0.6	0.29	25	25	<5	0.05	<1	<1	77	2	0.56	<10	<.01	17	6	0.02	<1	50	4	<5	<20	6	<.01	<10	4	<10	18	14
84	94 UTC 118	5	1.2	0.23	45	40	<5	0.04	<1	<1	84	2	0.53	<10	<.01	17	11	0.02	1	70	6	<5	<20	5	<.01	<10	6	<10	29	7
85	94 UTC 119	20	<.2	0.41	40	45	<5	0.07	<1	<1	126	3	0.52	<10	0.01	17	12	0.01	2	50	4	<5	<20	8	<.01	<10	6	<10	21	8
86	94 UTC 120	45	0.6	0.28	35	40	<5	0.04	<1	<1	100	2	0.70	<10	<.01	23	10	0.01	2	50	6	<5	<20	6	<.01	<10	5	<10	11	10
87	94 UTC 121	5	0.4	0.39	20	40	<5	0.05	<1	<1	103	3	0.61	<10	0.01	43	9	0.01	2	40	6	<5	<20	8	<.01	<10	5	<10	9	15
88	94 UTC 122	5	0.4	0.43	20	30	<5	0.06	<1	1	82	4	1.49	<10	0.01	126	5	0.02	<1	40	8	<5	<20	8	0.02	<10	4	<10	5	26
89	94 UTC 123	5	0.2	0.37	30	30	<5	0.05	<1	1	56	3	1.51	<10	<.01	47	6	0.02	1	70	6	<5	<20	6	0.01	<10	2	<10	15	30
90	94 UTC 124	5	0.6	0.36	40	25	<5	0.05	<1	<1	54	2	1.24	<10	0.01	16	6	0.01	<1	90	8	<5	<20	9	<.01	<10	3	<10	15	22
91	94 UTC 125	25	0.6	0.36	40	30	<5	0.04	<1	<1	121	3	1.41	<10	<.01	32	12	0.02	2	70	10	<5	<20	8	<.01	<10	7	<10	16	28
92	94 UTC 126	5	0.4	0.37	45	25	<5	0.05	<1	<1	84	2	1.51	<10	<.01	61	7	0.02	1	70	12	<5	<20	10	<.01	<10	5	<10	13	35
93	94 UTC 127	20	0.6	0.37	35	40	<5	0.03	<1	<1	119	2	0.89	<10	<.01	63	11	0.01	2	40	6	<5	<20	7	<.01	<10	5	<10	12	19
94	94 UTC 128	10	0.4	0.28	45	25	<5	0.04	<1	<1	79	3	0.80	<10	<.01	17	10	0.02	<1	60	6	<5	<20	6	<.01	<10	4	<10	18	8
95	94 UTC 129	40	1.6	0.20	40	25	<5	0.03	<1	<1	68	<1	0.56	<10	<.01	17	16	0.01	1	50	6	<5	<20	5	<.01	<10	7	<10	11	8
96	94 UTC 130	55	1.2	0.19	65	40	<5	0.02	<1	<1	132	2	0.56	<10	<.01	29	28	0.02	1	50	6	<5	<20	5	<.01	<10	13	<10	17	5
97	94 UTC 131	5	0.6	0.31	40	25	<5	0.06	<1	<1	72	3	0.77	<10	0.01	17	8	0.01	<1	50	8	<5	<20	9	<.01	<10	4	<10	11	16
98	94 UTC 132	5	0.6	0.35	25	30	<5	0.06	<1	<1	112	3	0.88	<10	0.02	18	10	0.01	1	40	10	<5	<20	10	<.01	<10	5	<10	12	19
99	94 UTC 133	5	<.2	0.32	25	30	<5	0.06	<1	<1	48	2	0.96	<10	0.01	19	4	<.01	<1	50	8	<5	<20	8	<.01	<10	3	<10	16	19
100	94 UTC 134	20	0.2	0.38	60	45	<5	0.04	<1	2	92	4	1.44	<10	<.01	69	12	0.01	<1	70	10	<5	<20	7	<.01	<10	8	<10	7	39
101	94 UTC 135	5	0.4	0.24	25	35	<5	0.04	<1	<1	83	2	0.56	<10	<.01	20	8	0.01	<1	50	8	<5	<20	7	<.01	<10	5	<10	10	12
102	94 UTC 136	5	0.2	0.39	35	40	<5	0.07	<1	<1	77	3	0.71	<10	0.02	24	7	0.01	<1	70	6	<5	<20	10	<.01	<10	5	<10	9	16
103	94 UTC 137	5	0.2	0.35	35	40	<5	0.05	<1	1	65	3	0.59	<10	0.01	38	5	0.01	<1	70	8	<5	<20	8	<.01	<10	4	<10	12	13
104	94 UTC 138	5	0.4	0.45	25	45	<5	0.09	<1	<1	103	3	1.17	<10	0.02	37	9	0.01	<1	60	8	<5	<20	12	<.01	<10	6	<10	8	22
105	94 UTC 139	5	0.4	0.32	15	45	<5	0.06	<1	<1	92	2	0.44	<10	0.02	20	8	0.01	2	40	6	<5	<20	8	<.01	<10	5	<10	9	10
106	94 UTC 140	5	0.2	0.42	35	55	<5	0.07	<1	<1	104	2	0.45	<10	0.02	9	9	0.01	1	50	8	5	<20	9	<.01	<10	5	<10	14	19
107	94 UTC 141	5	0.4	0.52	15	55	<5	0.09	<1	1	120	3	0.77	<10	0.03	52	10	0.01	1	60	10	<5	<20	10	<.01	<10	6	<10	14	34
108	94 UTC 142	5	0.8	0.18	15	95	<5	0.03	<1	<1	150	2	0.30	<10	<.01	20	10	0.02	2	60	6	<5	<20	5	<.01	<10	9	<10	10	4
109	94 UTC 143	10	0.6	0.29	15	150	<5	0.03	<1	<1	124	2	0.24	<10	<.01	17	10	0.02	1	50	8	<5	<20	4	<.01	<10	6	<10	8	3
110	94 UTC 144	5	0.6	0.17	20	55	<5	0.03	<1	<1	116	1	0.26	<10	<.01	11	8	0.02	2	50	8	<5	<20	4	<.01	<10	5	<10	11	3

Et #.	Tag #	Au (ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
111	94 UTC 145	5	0.6	0.20	10	50	<5	0.02	<1	<1	179	2	0.26	<10	<.01	18	14	0.01	2	50	8	<5	<20	4	<.01	<10	8	<10	10	3
112	94 UTC 146	5	0.6	0.22	15	55	<5	0.03	<1	<1	170	2	0.27	<10	<.01	23	15	0.02	1	50	6	<5	<20	6	<.01	<10	8	<10	11	4
113	94 UTC 147	10	0.6	0.17	35	45	<5	0.03	<1	1	95	2	0.31	<10	0.01	56	13	0.02	2	60	14	<5	<20	4	<.01	<10	6	<10	12	11
114	94 UTC 148	15	0.4	0.33	30	40	<5	0.03	<1	<1	82	3	0.39	<10	0.01	15	9	<.01	<1	70	12	<5	<20	3	<.01	<10	4	<10	18	29
115	94 UTC 149	5	0.4	0.24	15	40	<5	0.03	<1	<1	73	5	0.32	<10	<.01	11	7	<.01	1	50	10	<5	<20	3	<.01	<10	5	<10	13	19
116	94 UTC 150	5	0.6	0.26	30	40	<5	0.03	<1	<1	93	3	0.52	<10	<.01	18	7	0.01	1	60	14	<5	<20	4	<.01	<10	4	<10	16	17
117	94 UTC 151	10	0.6	0.15	20	55	<5	0.03	<1	<1	44	2	0.48	<10	<.01	12	4	0.01	<1	50	18	<5	<20	3	<.01	<10	2	<10	14	9
118	94 UTC 152	5	0.8	0.20	20	35	<5	0.04	<1	<1	44	3	0.42	<10	<.01	12	5	0.01	<1	70	10	<5	<20	4	<.01	<10	3	<10	26	18
119	94 UTC 153	5	0.6	0.30	15	35	<5	0.03	<1	<1	118	3	0.50	<10	0.01	33	12	0.01	1	60	8	<5	<20	4	<.01	<10	7	<10	18	16
120	94 UTC 154	5	0.6	0.26	15	30	<5	0.03	<1	<1	61	3	0.36	<10	<.01	23	7	0.02	<1	60	14	<5	<20	3	<.01	<10	3	<10	22	17
121	94 UTC 155	15	0.6	0.22	15	25	<5	0.06	<1	<1	39	2	0.27	<10	0.02	11	6	0.01	<1	60	10	<5	<20	4	<.01	<10	2	<10	16	15
122	94 UTC 156	15	0.4	0.20	40	505	<5	0.02	<1	<1	30	<1	0.46	<10	<.01	27	3	0.01	<1	60	18	<5	<20	5	<.01	<10	2	<10	6	5
123	94 UTC 157	5	0.8	0.26	45	310	<5	0.02	<1	<1	74	1	0.63	<10	<.01	32	7	0.01	<1	60	18	<5	<20	4	<.01	<10	5	<10	5	6
124	94 UTC 158	20	0.6	0.20	40	210	<5	0.02	<1	<1	19	<1	0.47	<10	<.01	22	4	0.02	<1	60	10	<5	<20	4	<.01	<10	1	<10	7	4
125	94 UTC 159	15	1.0	0.22	35	190	<5	0.02	<1	<1	69	1	0.89	<10	<.01	26	7	0.02	<1	70	18	<5	<20	7	<.01	<10	7	<10	3	7
126	94 UTC 160	10	<.2	0.23	25	40	<5	0.05	<1	1	188	3	0.40	<10	0.01	33	17	0.01	3	70	6	<5	<20	6	<.01	<10	10	<10	12	9
127	94 UTC 161	15	0.4	0.20	40	20	<5	0.04	<1	<1	116	2	0.43	<10	0.01	19	10	0.01	2	60	6	<5	<20	5	<.01	<10	7	<10	12	11
128	94 UTC 162	10	0.6	0.27	30	20	<5	0.03	<1	<1	149	3	0.46	<10	0.01	22	15	0.01	2	80	8	<5	<20	5	<.01	<10	9	<10	12	16
129	94 UTC 163	10	0.6	0.17	25	20	<5	0.03	<1	<1	115	2	0.47	<10	<.01	22	10	0.02	2	90	8	<5	<20	7	<.01	<10	8	<10	10	10
130	94 UTC 164	5	0.4	0.21	20	20	<5	0.04	<1	<1	185	3	0.39	<10	0.01	28	18	0.02	2	60	6	<5	<20	7	<.01	<10	12	<10	10	9
131	94 UTC 165	5	0.6	0.18	15	15	<5	0.04	<1	1	128	2	0.33	<10	0.01	28	11	0.01	2	60	2	<5	<20	6	<.01	<10	6	<10	10	8
132	94 UTC 166	10	0.6	0.23	30	20	<5	0.05	<1	<1	176	3	0.46	<10	0.01	26	16	0.02	2	70	4	<5	<20	7	<.01	<10	10	<10	11	9
133	94 UTC 167	10	0.4	0.17	15	15	<5	0.04	<1	<1	149	2	0.31	<10	<.01	23	13	0.01	2	50	4	<5	<20	6	<.01	<10	6	<10	10	7

QC DATA:

Repeat:

1	94 UTC 035		1.4	0.22	80	275	<5	0.04	<1	1	134	5	0.46	<10	0.02	28	12	0.02	2	60	4	<5	<20	13	<.01	<10	8	<10	9	4
39	94 UTC 073		0.8	0.42	35	35	<5	0.02	<1	<1	127	3	0.54	<10	<.01	17	12	0.01	1	40	6	<5	<20	6	<.01	<10	7	<10	9	7
64	94 UTC 088		0.8	0.22	110	40	<5	0.03	<1	<1	46	4	0.82	<10	<.01	10	<6	0.01	<1	40	10	<5	<20	9	<.01	<10	4	<10	7	4
102	94 UTC 136		0.2	0.36	35	40	<5	0.07	<1	<1	72	2	0.67	<10	0.01	24	7	<.01	<1	70	8	<5	<20	9	<.01	<10	6	<10	9	15

Standard 1991:

			1.2	1.98	80	120	<5	2.05	<1	18	73	88	3.78	<10	0.98	782	2	0.01	20	680	20	<5	<20	54	0.12	10	62	10	<1	76
			1.0	1.68	75	120	<5	1.89	<1	18	60	117	3.74	<10	0.94	737	1	0.01	21	680	18	5	<20	56	0.09	<10	78	<10	<1	74
			1.2	1.73	80	120	<5	1.87	<1	19	57	86	3.89	<10	1.00	731	1	0.01	22	700	22	10	<20	55	0.11	10	79	<10	<1	73
			1.2	1.90	85	160	<5	1.93	<1	20	64	84	3.71	<10	0.99	720	2	0.01	20	720	20	5	<20	58	0.12	10	83	<10	<1	73

ECO-TECH LABORATORIES LTD.
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B.C. Certified Assayer

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ASSAYING
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ENVIRONMENTAL TESTING

10041 E. Trans Canada Hwy., R.R. #2, Kamloops, B.C. V2C 2J3 Phone (604) 573-5700
Fax (604) 573-4557

CERTIFICATE OF ASSAY ETK 94-450

PIONEER METALS CORP.
1771-401 W. GEORGIA ST.
VANCOUVER, B.C
V6B 5A1

July 25, 1994

ATTENTION: DAVID DUNN

133 ROCK samples received July 14, 1994
Project: Uduk Lake

ET #.	Description	Ag (g/t)	Ag (oz/t)
2	94UTC 036	375.6	10.95

ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

XLS/Pioneer

28-JA-94

ECO-TECH LABORATORIES LTD.
10041 East Trans Canada Highway
KAMLOOPS, B.C.
V2C 2J3

Phone: 604-573-5700
Fax : 604-573-4557

PIONEER METALS CORPORATION ETK 94-465
1770-401 W.Georgia Street
VANCOUVER, B.C
V6B 5A1

ATTENTION: David Dunn

76 ROCK samples received July 20, 1994

Shipment #: 5
Project #: UDUK LAKE

Values in ppm unless otherwise reported

St #.	Tag #	Au (ppb)	Ag	Al %	As	B	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	K(%)	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	94 UTC 168	170	<.2	0.56	195	6	80	5	0.07	2	4	105	<1	2.36	<.01	<10	<.01	33	13	<.01	2	160	<2	<5	40	30	<.01	<10	4	40	<1	2
2	94 UTC 169	45	<.2	0.39	55	6	85	5	0.02	<1	3	91	<1	1.04	0.02	<10	<.01	19	8	<.01	2	100	<2	<5	60	33	<.01	<10	2	30	<1	<1
3	94 UTC 170	250	3.6	0.59	70	6	150	<5	<.01	<1	3	82	<1	1.91	<.01	<10	<.01	23	8	<.01	1	280	<2	<5	20	40	<.01	<10	4	<10	<1	<1
4	94 UTC 171	930	7.8	0.47	640	8	90	10	<.01	16	5	90	8	5.22	0.01	<10	<.01	19	12	<.01	2	180	<2	10	<20	31	<.01	<10	5	<10	<1	5
5	94 UTC 172	170	2.2	0.39	245	6	45	<5	<.01	3	3	163	<1	2.55	<.01	<10	<.01	82	18	<.01	3	80	<2	<5	<20	12	<.01	<10	5	<10	<1	1
6	94 UTC 173	75	0.4	0.34	140	6	60	<5	<.01	1	3	85	<1	1.82	<.01	<10	<.01	24	15	<.01	2	120	<2	5	40	24	<.01	<10	3	40	<1	<1
7	94 UTC 174	40	3.4	0.48	110	6	60	<5	<.01	1	2	139	<1	1.37	<.01	<10	<.01	22	13	<.01	2	90	<2	<5	20	23	<.01	<10	4	<10	<1	<1
8	94 UTC 175	25	2.0	0.27	75	6	60	5	<.01	<1	3	119	<1	1.30	<.01	<10	<.01	61	9	<.01	3	80	<2	<5	60	24	<.01	<10	3	<10	<1	<1
9	94 UTC 176	45	2.2	0.35	110	6	55	5	<.01	1	2	161	<1	1.28	<.01	<10	<.01	86	13	<.01	2	90	<2	<5	40	22	<.01	<10	3	20	<1	<1
10	94 UTC 177	170	4.0	0.23	105	6	55	<5	<.01	1	3	104	<1	1.23	<.01	<10	<.01	55	9	<.01	3	50	<2	<5	40	24	<.01	<10	2	30	<1	<1
11	94 UTC 178	980	10.4	0.38	130	6	85	5	<.01	1	4	177	<1	1.48	0.01	<10	<.01	32	16	<.01	2	70	<2	<5	80	37	<.01	<10	2	10	<1	<1
12	94 UTC 179	>1000	3.2	0.33	255	6	60	<5	<.01	3	2	90	<1	1.60	<.01	<10	<.01	16	11	<.01	3	110	<2	5	<20	24	<.01	<10	2	<10	<1	<1
13	94 UTC 180	805	11.2	0.39	395	8	85	5	<.01	4	3	123	<1	2.11	<.01	<10	<.01	20	13	<.01	2	140	<2	<5	40	48	<.01	<10	4	<10	<1	<1
14	94 UTC 181	585	4.4	0.31	345	6	60	<5	<.01	4	2	97	<1	2.13	<.01	<10	<.01	20	10	<.01	2	80	<2	<5	<20	27	<.01	<10	3	<10	<1	<1
15	94 UTC 182	990	2.4	0.63	540	8	90	10	<.01	8	4	41	<1	3.51	<.01	<10	<.01	7	8	<.01	<1	100	<2	5	<20	36	<.01	<10	4	10	<1	<1
16	94 UTC 183	420	9.0	0.26	175	6	55	5	<.01	2	2	108	<1	1.62	<.01	<10	<.01	14	10	<.01	3	80	<2	<5	<20	23	<.01	<10	2	<10	<1	<1
17	94 UTC 184	315	9.8	0.37	400	8	75	5	<.01	5	3	150	<1	2.54	<.01	<10	<.01	20	15	<.01	2	80	<2	<5	40	28	<.01	<10	3	<10	<1	<1
18	94 UTC 185	90	2.0	0.39	100	6	90	<5	<.01	<1	4	104	<1	1.46	0.01	<10	<.01	16	12	<.01	3	110	<2	<5	60	36	<.01	<10	3	20	<1	<1
19	94 UTC 186	110	11.2	0.36	170	6	95	5	<.01	2	3	157	<1	1.97	<.01	<10	<.01	27	16	<.01	2	60	<2	<5	40	15	<.01	<10	2	<10	<1	<1
20	94 UTC 187	670	12.6	0.3	630	10	60	10	<.01	8	4	100	<1	3.69	<.01	<10	<.01	16	11	<.01	3	60	<2	<5	<20	20	<.01	<10	4	<10	<1	<1
21	94 UTC 188	120	4.0	0.29	120	6	55	5	<.01	1	3	136	<1	1.45	<.01	<10	<.01	33	12	<.01	2	60	<2	<5	40	20	<.01	<10	2	30	<1	<1
22	94 UTC 189	35	0.4	0.24	45	4	55	<5	<.01	<1	1	96	<1	0.55	0.06	20	<.01	28	18	<.01	3	20	<2	<5	<20	6	<.01	<10	<1	<10	4	<1
23	94 UTC 190	70	<.2	0.22	70	6	135	5	<.01	<1	3	125	<1	0.59	0.09	20	<.01	22	23	<.01	1	30	<2	<5	60	24	<.01	<10	<1	<10	3	<1
24	94 UTC 191	110	1.2	0.26	115	8	50	<5	<.01	1	2	109	<1	0.71	0.09	20	<.01	20	28	<.01	3	30	<2	<5	40	20	<.01	<10	1	<10	3	<1
25	94 UTC 192	275	3.2	0.28	160	6	65	<5	<.01	2	3	198	<1	0.90	0.08	20	<.01	19	44	<.01	3	30	<2	<5	60	22	<.01	<10	5	<10	3	1
26	94 UTC 193	185	0.2	0.24	70	8	55	<5	<.01	<1	2	77	<1	0.42	0.1	20	<.01	13	23	<.01	2	40	<2	<5	40	16	<.01	<10	<1	20	4	<1
27	94 UTC 194	40	0.4	0.23	75	6	60	<5	<.01	<1	2	155	<1	0.65	0.1	20	<.01	19	22	<.01	2	40	<2	<5	60	13	<.01	<10	<1	<10	4	<1
28	94 UTC 195	30	<.2	0.21	70	8	60	<5	<.01	<1	3	98	<1	0.52	0.11	20	<.01	16	19	<.01	1	50	<2	<5	60	20	<.01	<10	<1	<10	2	<1
29	94 UTC 196	15	<.2	0.33	50	6	70	<5	<.01	<1	2	183	<1	0.45	0.11	20	<.01	22	28	<.01	3	40	<2	<5	40	9	<.01	<10	<1	<10	4	<1
30	94 UTC 197	35	<.2	0.27	100	6	55	<5	<.01	1	2	77	<1	0.64	0.09	20	<.01	12	20	<.01	1	50	<2	<5	40	16	<.01	<10	<1	<10	3	<1

PIONEER METALS CORPORATION ETK 94-465

ECO-TECH LABORATORIES LTD.

St #.	Tag #	Au (ppb)	Ag	Al %	As	B	Ba	Bi	Ca %	Cd	Co	Cr	Cs	Fe %	K(%)	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
31	94 UTC 198	45	<.2	0.27	65	6	80	<5	<.01	<1	3	173	<1	0.61	0.1	20	<.01	19	25	<.01	3	40	<2	<5	60	18	<.01	<10	<1	30	4	<1
32	94 UTC 199	660	10.2	0.19	140	6	80	<5	<.01	2	3	107	<1	0.63	0.07	10	<.01	27	41	<.01	3	40	<2	10	60	21	<.01	<10	2	<10	2	<1
33	94 UTC 200	120	<.2	0.32	65	8	45	5	<.01	<1	3	197	<1	0.62	0.08	<10	<.01	21	54	<.01	3	30	<2	<5	60	19	<.01	<10	2	<10	1	<1
34	94 UTC 201	30	<.2	0.24	55	6	65	<5	<.01	<1	2	133	<1	0.49	0.06	20	<.01	14	20	<.01	3	20	<2	<5	40	12	<.01	<10	<1	<10	4	<1
35	94 UTC 202	65	1.0	0.31	70	6	85	<5	<.01	<1	3	140	<1	0.52	0.08	20	<.01	16	31	<.01	3	50	<2	<5	60	22	<.01	<10	<1	20	3	<1
36	94 UTC 203	15	<.2	0.18	45	6	60	<5	<.01	<1	2	83	<1	0.34	0.07	20	<.01	9	10	<.01	<1	40	<2	<5	40	12	<.01	<10	<1	<10	3	<1
37	94 UTC 204	20	<.2	0.3	70	6	75	<5	<.01	<1	2	148	<1	0.51	0.08	20	<.01	19	21	<.01	2	40	<2	<5	60	19	<.01	<10	<1	<10	3	<1
38	94 UTC 205	175	<.2	0.27	75	6	90	<5	<.01	<1	3	107	<1	0.61	0.08	10	<.01	18	30	<.01	<1	60	<2	<5	80	22	<.01	<10	1	30	2	<1
39	94 UTC 206	>1000	0.2	0.27	40	6	65	<5	<.01	<1	3	155	<1	0.43	0.09	10	<.01	21	16	<.01	3	50	<2	<5	60	22	<.01	<10	<1	<10	2	<1
40	94 UTC 207	20	<.2	0.19	55	4	15	<5	<.01	<1	1	61	<1	0.37	0.05	20	<.01	10	14	<.01	<1	40	<2	<5	<20	4	<.01	<10	<1	<10	3	<1
41	94 UTC 208	65	0.2	0.21	55	6	95	<5	<.01	<1	3	114	<1	0.42	0.08	20	<.01	16	18	<.01	1	50	<2	<5	60	19	<.01	<10	<1	10	3	<1
42	94 UTC 209	35	<.2	0.17	70	6	35	<5	0.01	<1	2	61	<1	0.48	0.07	20	<.01	10	22	<.01	<1	30	<2	<5	40	14	<.01	<10	<1	10	3	<1
43	94 UTC 210	45	4.4	0.18	125	6	75	5	<.01	1	3	120	<1	0.83	0.07	10	<.01	25	20	<.01	2	40	<2	<5	80	21	<.01	<10	<1	20	1	<1
44	94 UTC 211	15	<.2	0.16	60	6	35	<5	0.01	<1	2	69	<1	0.49	0.07	10	<.01	12	17	<.01	1	30	<2	<5	40	16	<.01	<10	<1	<10	1	<1
45	94 UTC 212	80	0.4	0.16	130	6	80	<5	<.01	1	3	115	<1	1.04	0.05	<10	<.01	14	25	<.01	1	30	<2	<5	60	17	<.01	<10	<1	<10	1	<1
46	94 UTC 213	320	8.0	0.17	665	6	95	5	<.01	8	4	98	<1	3.08	0.05	<10	<.01	19	103	<.01	3	30	<2	10	20	21	<.01	<10	6	<10	<1	2
47	94 UTC 214	75	0.6	0.15	130	6	20	<5	<.01	1	2	108	<1	0.76	0.03	10	<.01	16	25	<.01	2	10	<2	<5	40	6	<.01	<10	<1	<10	1	<1
48	94 UTC 215	405	2.6	0.24	520	6	10	<5	0.02	7	1	118	<1	2.17	0.02	<10	<.01	16	82	<.01	3	40	<2	30	20	<1	<.01	<10	6	<10	<1	6
49	94 UTC 216	55	1.0	0.2	85	4	190	<5	0.03	1	1	107	<1	0.62	0.05	20	<.01	21	15	<.01	2	30	<2	<5	60	13	<.01	<10	2	<10	2	<1
50	94 UTC 217	65	3.6	0.19	85	4	120	<5	<.01	<1	1	146	<1	0.67	0.03	<10	<.01	17	22	<.01	3	<10	<2	<5	60	5	<.01	<10	2	<10	2	11
51	94 UTC 218	40	0.6	0.25	75	6	90	<5	0.03	<1	3	98	<1	1.14	0.07	<10	<.01	20	57	<.01	5	560	<2	5	40	85	<.01	<10	8	<10	1	4
52	94 UTC 219	100	1.0	0.17	130	6	85	<5	<.01	1	3	104	<1	1.43	0.06	<10	<.01	20	54	<.01	6	100	<2	<5	<20	15	<.01	<10	6	<10	<1	5
53	94 UTC 220	220	0.8	0.16	100	6	110	5	<.01	1	6	98	<1	1.34	0.1	<10	<.01	22	53	<.01	5	110	<2	<5	60	41	<.01	<10	5	20	<1	5
54	94 UTC 221	115	0.6	0.21	135	6	125	<5	<.01	2	3	96	<1	1.54	0.13	<10	<.01	29	51	<.01	2	60	<2	<5	<20	22	<.01	<10	7	<10	1	12
55	94 UTC 222	65	0.8	0.22	115	6	125	<5	<.01	1	2	144	<1	1.25	0.08	<10	<.01	33	96	<.01	3	120	<2	<5	60	27	<.01	<10	6	10	<1	8
56	94 UTC 223	80	1.0	0.24	100	6	100	<5	<.01	1	2	125	<1	1.38	0.07	<10	<.01	52	115	<.01	4	260	<2	<5	40	44	<.01	<10	7	<10	1	1
57	94 UTC 224	50	0.2	0.35	75	4	80	5	<.01	1	1	30	<1	1.83	0.17	<10	<.01	15	26	<.01	1	190	<2	<5	<20	36	<.01	<10	10	<10	<1	<1
58	94 UTC 225	25	0.2	0.69	65	6	70	5	<.01	<1	3	28	<1	3.68	0.17	<10	0.12	102	16	<.01	2	330	<2	<5	<20	14	<.01	<10	22	<10	<1	9
59	94 UTC 226	20	<.2	0.56	50	2	75	<5	<.01	1	2	28	<1	2.78	0.11	<10	0.13	67	11	<.01	4	280	<2	15	<20	25	<.01	<10	23	<10	<1	5
60	94 UTC 227	70	0.4	0.36	65	8	95	5	<.01	1	4	65	<1	2.32	0.16	<10	<.01	24	27	<.01	2	250	<2	<5	<20	24	<.01	<10	13	20	<1	3
61	94 UTC 228	35	0.4	0.47	55	6	90	5	<.01	<1	4	28	<1	3.21	0.14	<10	0.04	62	18	<.01	<1	370	<2	<5	<20	28	<.01	<10	21	<10	<1	6
62	94 UTC 229	65	<.2	0.64	70	6	105	10	<.01	<1	5	48	<1	4.14	0.18	<10	0.07	83	35	<.01	2	670	<2	<5	<20	34	<.01	<10	23	<10	<1	9
63	94 UTC 230	40	1.2	0.55	60	4	65	<5	<.01	1	3	32	<1	2.98	0.16	<10	0.04	44	28	<.01	2	520	<2	5	<20	44	<.01	<10	24	<10	<1	4
64	94 UTC 231	45	0.2	0.54	75	8	135	5	<.01	<1	4	90	<1	1.91	0.22	<10	0.02	36	26	<.01	<1	420	<2	<5	40	67	<.01	<10	20	<10	<1	2
65	94 UTC 232	90	2.8	0.32	65	6	95	5	<.01	<1	2	24	<1	1.48	0.13	<10	<.01	14	35	<.01	<1	260	<2	<5	<20	46	<.01	<10	15	<10	<1	<1
66	94 UTC 233	40	<.2	0.72	80	6	90	5	<.01	<1	5	34	6	3.01	0.14	<10	0.12	114	15	<.01	2	440	<2	<5	<20	33	<.01	<10	21	20	<1	13
67	94 UTC 234	75	0.6	0.3	70	6	65	<5	<.01	<1	3	28	<1	1.59	0.13	<10	<.01	17	49	<.01	<1	230	<2	<5	<20	21	<.01	<10	11	20	<1	<1
68	94 UTC 235	40	0.6	0.59	70	6	90	5	0.02	<1	4	28	6	3.51	0.18	<10	0.03	41	17	<.01	<1	600	<2	<5	<20	20	<.01	<10	15	<10	<1	6
69	94 UTC 236	105	<.2	0.22	55	6	150	<5	<.01	<1	1	139	<1	1.12	0.11	<10	<.01	23	26	<.01	3	80	<2	<5	60	5	<.01	<10	4	10	1	3
70	94 UTC 237	40	<.2	0.27	30	6	190	5	<.01	<1	3	147	<1	1.33	0.12	<10	<.01	27	26	<.01	2	460	<2	<5	40	76	<.01	<10	6	<10	2	5

PIONEER METALS CORPORATION RTK 94-466

ECO-TECH LABORATORIES LTD.

Et #.	Tag #	Au (ppb)	Ag	Al %	As	B	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	K(%)	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
71	94 UTC 238	25	1.8	0.22	110	8	110	5	<.01	1	3	105	<1	1.30	0.12	<10	<.01	19	17	<.01	<1	130	<2	<5	40	25	<.01	<10	3	<10	<1	4
72	94 UTC 239	160	<.2	0.17	160	6	75	<5	<.01	2	<1	164	<1	0.89	0.12	<10	<.01	29	16	<.01	3	20	<2	<5	80	3	<.01	<10	1	<10	1	<1
73	94 UTC 240	105	<.2	0.16	140	6	105	<5	<.01	2	2	159	<1	0.85	0.12	<10	<.01	31	18	<.01	2	40	<2	<5	60	15	<.01	<10	<1	30	1	1
74	94 UTC 241	100	<.2	0.15	100	8	80	5	<.01	1	2	136	<1	0.68	0.11	<10	<.01	30	19	<.01	<1	30	<2	<5	60	14	<.01	<10	<1	10	2	2
75	94 UTC 242	65	<.2	0.36	240	6	150	5	<.01	3	3	245	<1	1.97	0.23	20	<.01	40	53	<.01	5	110	2	<5	80	17	<.01	<10	3	30	5	7
76	94 UTC 243	120	<.2	0.18	125	8	80	5	<.01	1	3	116	<1	0.90	0.13	10	<.01	18	24	<.01	<1	50	<2	<5	60	18	<.01	<10	<1	20	2	<1
QC DATA:																																
Repeat:																																
1	94 UTC 188		0.2	0.64	200	6	70	<5	0.07	2	3	107	<1	2.39	<.01	<10	<.01	32	14	<.01	4	150	<2	<5	<20	20	<.01	<10	5	<10	<1	2
38	94 UTC 205		0.4	0.22	60	6	50	<5	<.01	<1	2	155	<1	0.44	0.08	10	<.01	22	17	<.01	3	40	<2	<5	80	12	<.01	<10	<1	<10	3	<1
Standard 1991:			1.0	1.75	60	10	175	5	1.79	1	21	58	76	4.00	0.28	<10	0.94	705	<1	<.01	25	660	18	5	<20	69	0.10	<10	78	<10	8	67

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ECO-TECH LABORATORIES LTD.
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B.C. Certified Assayer

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10041 E. Trans Canada Hwy., R.R. #2, Kamloops, B.C. V2C 2J3 Phone (604) 573-5700
Fax (604) 573-4557

CERTIFICATE OF ASSAY ETK 94-465

PIONEER METALS CORP.
1771-401 W. GEORGIA ST.
VANCOUVER, B.C
V6B 5A1

July 28, 1994

ATTENTION: DAVID DUNN

76 ROCK samples received July 20, 1994
Project: Uduk Lake

ET #.	Description	Au (g/t)	Au (oz/t)
12	94UTC 179	1.22	0.036
39	94UTC 206	1.32	0.038

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ENVIRONMENTAL TESTING

10041 E. Trans Canada Hwy., R.R #2, Kamloops, B.C. V2C 2J3 Phone (604) 573-5700
Fax (604) 573-4557

CERTIFICATE OF ASSAY ETK 94-615

PIONEER METALS CORP.
1771-401 W. GEORGIA ST.
VANCOUVER, B.C
V6B 5A1

29-Aug-94

ATTENTION: DAVID DUNN

8 ROCK samples received August 19, 1994
Project: Uduk Lake
Shipment #: 4

ET #.	Description	Au (g/t)	Au (oz/t)	Ag (g/t)	Ag (oz/t)
1	94-UDR-1	0.46	0.013	8.9	0.26
2	94-UTR-34	0.68	0.020	8.0	0.23
3	126211	<.03	<.001	<.1	<.01
4	126212	<.03	<.001	<.1	<.01
5	162213	<.03	<.001	<.1	<.01
6	126214	<.03	<.001	<.1	<.01
7	126215	0.06	0.002	<.1	<.01
8	126216	0.25	0.007	<.1	<.01

ECO-TECH LABORATORIES LTD.
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B.C. Certified Assayer

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ENVIRONMENTAL TESTING

10041 E. Trans Canada Hwy., R.R. #2, Kamloops, B.C. V2C 2J3 Phone (604) 573-5700
Fax (604) 573-4557

CERTIFICATE OF ASSAY ETK 680

PIONEER METALS CORPORATION
1770-401 W.Georgia Street
VANCOUVER, B.C.
V6B 5A1

9-Sep-94

ATTENTION: David Dunn

69 ROCK samples received September 2, 1994
Shipment #: 5
Project #: UDUK LAKE

ET #.	Tag #:	Au (g/t)	Au (oz/t)	Ag (g/t)	Ag (oz/t)
1	126217	0.27	0.008	4.1	0.12
2	126218	0.07	0.002	1.3	0.04
3	126219	0.38	0.011	4.3	0.13
4	126220	0.03	0.001	1.4	0.04
5	126221	0.05	0.001	1.3	0.04
6	126222	0.05	0.001	2.8	0.08
7	126223	0.48	0.014	7.2	0.21
8	126224	0.66	0.019	7.9	0.23
9	126225	0.30	0.009	4.7	0.14
10	126226	0.14	0.004	1.9	0.06
11	126227	0.07	0.002	2.7	0.08
12	126228	0.11	0.003	10.6	0.31
13	126229	0.03	0.001	4.3	0.13
14	126230	0.09	0.003	4.7	0.14
15	126231	1.43	0.042	4.3	0.13
16	126232	1.33	0.039	2.8	0.08
17	126233	1.44	0.042	6.9	0.20
18	126234	0.46	0.013	9.0	0.26
19	126235	0.38	0.011	7.0	0.20
20	126236	0.44	0.013	6.4	0.19
21	126237	0.11	0.003	7.5	0.22
22	126238	0.05	0.001	4.0	0.12
23	126239	0.22	0.006	10.2	0.30

Frank J.Pezzotti, A.Sc.T.,B.C.Certified Assayer

PIONEER METALS CORPORATION ETK 680

9-Sep-94

ET #.	Tag #:	Au (g/t)	Au (oz/t)	Ag (g/t)	Ag (oz/t)
24	126240	0.60	0.017	5.9	0.17
25	126241	0.12	0.003	6.6	0.19
26	126242	0.13	0.004	2.1	0.06
27	126243	0.07	0.002	2.7	0.08
28	126244	0.18	0.005	2.9	0.09
29	126245	0.10	0.003	1.5	0.04
30	126246	0.11	0.003	9.8	0.29
31	126247	0.91	0.027	2.8	0.08
32	126248	0.06	0.002	1.2	0.04
33	126249	0.27	0.008	2.1	0.06
34	126250	0.26	0.008	8.7	0.25
35	126251	0.28	0.008	4.9	0.14
36	126252	0.48	0.014	4.6	0.13
37	126253	0.09	0.003	2.9	0.09
38	126254	0.07	0.002	1.8	0.05
39	126255	0.08	0.002	1.0	0.03
40	126256	0.06	0.002	1.5	0.04
41	126257	0.03	0.001	2.2	0.06
42	126258	0.07	0.002	1.9	0.06
43	126259	0.04	0.001	2.0	0.06
44	126260	0.05	0.001	0.2	0.01
45	126261	0.05	0.001	0.1	<.01
46	126262	0.04	0.001	0.2	0.01
47	126263	0.07	0.002	0.1	<.01
48	126264	0.09	0.003	5.1	0.15
49	126265	0.05	0.001	1.9	0.06
50	126266	0.10	0.003	1.9	0.06
51	126267	0.12	0.003	2.8	0.08
52	126270	0.05	0.001	0.1	<.01
53	126271	0.08	0.002	0.2	0.01
54	126272	0.08	0.002	0.2	0.01
55	126273	0.11	0.003	0.9	0.03
56	126274	0.47	0.014	0.4	0.01
57	126275	0.11	0.003	1.3	0.04
58	126276	0.04	0.001	0.5	0.02
59	126277	0.12	0.003	0.6	0.02
60	126278	0.03	0.001	0.3	0.01
61	126279	<.03	<.001	0.1	<.01
62	126280	<.03	<.001	<.1	<.01
63	126281	<.03	<.001	0.3	0.01
64	126282	0.05	0.001	0.2	0.01
65	126283	0.28	0.008	1.4	0.04

Frank J.Pezzotti,A.Sc.T.B.C.Certified Assayer

PIONEER METALS CORPORATION ETK 680 9-Sep-94

ET #.	Tag #:	Au (g/t)	Au (oz/t)	Ag (g/t)	Ag (oz/t)
66	126284	0.02	0.001	0.3	0.01
67	126285	0.02	0.001	0.2	0.01
68	126286	0.02	0.001	0.3	0.01
69	126287	0.02	0.001	0.1	<.01

ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

XLS/Pioneer

APPENDIX V

Petrographic Report

Vancouver Petrographics Ltd.

8080 GLOVER ROAD, LANGLEY, B.C. V3A 4P9
PHONE (604) 888-1323 • FAX (604) 888-3642

Report # 940428 for:

David Dunn,
Pioneer Metals Corporation,
1750 - 401 Granville Street,
VANCOUVER, B.C., V6B 5A1
submitted by: David Tupper

August 1994

Samples: U94TS series: 001 to 007

Property: in Burns Lake Area (low sulfidization hydrothermal system in Tertiary Ootsa Lake Group felsic volcanic rocks)

Summary:

The samples are divided into two groups. Five samples are of a slightly porphyritic trachyte flow and genetically related pyroclastic and brecciated rocks. These contain plagioclase and K-feldspar phenocrysts; some of the former also have magmatic overgrowth rims of K-feldspar. Identification of cryptocrystalline to extremely fine grained groundmass feldspars is based on the intensity and distribution of yellow (K-feldspar) stain on the offcut block. Two samples are of a hypabyssal, slightly porphyritic and spherulitic dacite.

Many of the samples were silicified in two or three stages. Early replacement of the groundmass of the rock is by cryptocrystalline to extremely fine grained cherty quartz. Later replacement is by coarser grained quartz. The final stage is formation of quartz veins. Pyrite occurs with all stages of replacement; much of it is altered to hematite, and in some samples, only casts of pyrite remain. During replacement, plagioclase phenocrysts were replaced completely by various aggregates, mainly of quartz and sericite.

A: Trachyte

Sample U94TS-001 is a brecciated trachyte flow containing phenocrysts of plagioclase and minor ones of K-feldspar in a groundmass dominated by K-feldspar. Plagioclase phenocrysts are replaced by quartz-sericite. The rock was brecciated and replaced in coarse patches by quartz-(K-feldspar). Late veinlets are of quartz.

Sample U94TS-002 is a slightly porphyritic trachyte flow containing minor phenocrysts of plagioclase (altered to quartz-sericite and pyrite-sericite) in a variable, flow-banded groundmass dominated by K-feldspar and containing minor disseminated patches of pyrite. Replacement patches are dominated by extremely fine grained quartz. Veinlets are dominated by very fine grained quartz.

Sample U94TS-003 is a trachyte/rhyolite tuff containing fragments averaging 1-2 mm in size of a variety of types of trachyte and rhyolite. Important types are porphyritic trachyte flows and rhyolite pumice, both with K-feldspar and plagioclase phenocrysts. The groundmass of the rock is dominated by plagioclase(?). with less abundant K-feldspar and sericite and minor quartz. Minor replacement patches and veinlets are of quartz.

Sample U94TS-005 is a porphyritic trachyte welded tuff or flow containing phenocrysts of K-feldspar and plagioclase in a groundmass dominated by K-feldspar and plagioclase with minor quartz. Compositional banding, which is obvious in the hand sample and in the stained offcut block, is not as obvious in the thin section. It is defined mainly by variation in the ratio of K-feldspar to plagioclase and in the grain size of layers/patches.

Sample U94TS-007 is a brecciated trachyte flow containing fragments ranging from less than 0.2 mm to 8 mm across of a slightly porphyritic trachyte flow in a tuffaceous matrix dominated by plagioclase with patches of slightly coarser grained quartz, possibly in part of replacement origin. Veinlets are of quartz-sericite-(opaque) and limonite.

B: Hypabyssal Dacite

Sample U94TS-004 is a porphyritic, spherulitic, hypabyssal dacite containing phenocrysts of plagioclase and quartz and spherulites of plagioclase in a fine grained groundmass dominated by plagioclase and lesser sericite. Plagioclase phenocrysts are replaced completely by sericite. Quartz phenocrysts commonly have overgrowths of plagioclase with a spherulitic texture. Replacement patches are of very fine grained quartz. Veins and veinlets are of very fine to medium grained quartz; the largest vein is zoned strongly with a coarser grained margin and a much finer grained core. Late veinlets and patches are of limonite and jarosite.

Sample U94TS-006 is a brecciated, slightly spherulitic, hypabyssal dacite containing minor plagioclase phenocrysts in a groundmass of fine grained plagioclase and much less quartz. It was brecciated into fragments averaging a few mm to a few cm in size and replaced strongly by two stages of siliceous replacement, the first of very fine to extremely fine grained quartz and minor pyrite and the second by patches and veinlets of very fine to fine grained quartz.

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Sample U94TS-001 Brecciated Trachyte Flow; Quartz Replacement and Veins

Phenocrysts of plagioclase and minor ones of K-feldspar are set in a groundmass dominated by K-feldspar. Plagioclase phenocrysts are replaced by quartz-sericite. The rock was brecciated and replaced in coarse patches by quartz-(K-feldspar). Late veinlets are of quartz.

phenocrysts	
plagioclase	10-12%
K-feldspar	1- 2
groundmass	
K-feldspar	40-45
replacement	
1) early	
quartz	20-25
K-feldspar	7- 8
2) later	
quartz	5- 7
veins, veinlets	
quartz	5- 7
opaque	trace

Plagioclase forms subhedral to euhedral phenocrysts averaging 0.3-1 mm in size. Alteration is complete to very fine to extremely fine grained quartz and much less abundant, extremely fine grained sericite stained light yellow by limonite. A few plagioclase phenocrysts have discontinuous rims up to 0.1 mm wide of K-feldspar.

K-feldspar forms subhedral phenocrysts averaging 0.2-0.3 mm in size.

The groundmass is dominated by K-feldspar grains averaging 0.005-0.008 mm in size. It is too fine to identify other silicates, but possibly some plagioclase is present. Semi-opaque (Ti-oxide and hematite) forms disseminated grains ranging from dusty to 0.02 mm in size. In places, these outline a moderate flow-foliation.

The rock was brecciated into fragments up to 1 cm in size, and the matrix of the breccia was replaced by a series of assemblages becoming more siliceous with time. Early replacement was by cryptocrystalline cherty quartz containing moderately abundant dusty semi-opaque inclusions. In these zones, some K-feldspar is present; it is impossible to determined if it is primary or secondary. Limonite forms irregular patches up to 0.7 mm in size.

This was followed by more intense silicification producing patches of cherty quartz averaging 0.003-0.01 mm in grain size. This quartz is free of dusty semi-opaque inclusions. Later replacement is by coarser grained quartz averaging 0.02-0.05 mm in grain size, also free of dusty inclusions.

This material was cut by veins up to 0.3 mm wide and replaced in patches up to 1 mm in size by quartz grains averaging 0.05-0.15 mm in grain size. One quartz patch contains an interstitial patch 0.2 mm across of orange-red hematite in its core. A few veinlets averaging 0.3 mm wide and locally up to 0.6 mm wide are of very fine grained quartz with subhedral prismatic crystals oriented perpendicular to the walls of the veinlet. One veinlet contains a few patches up opaque up to 0.1 mm long.

Sample U94TS-002 **Slightly Porphyritic Trachyte Flow; Quartz Replacement and Veinlets**

Minor phenocrysts of plagioclase (altered to quartz-sericite and pyrite-sericite) are set in a variable, flow-banded groundmass dominated by K-feldspar and containing minor disseminated patches of pyrite. Replacement patches are dominated by extremely fine grained quartz. Veinlets are dominated by very fine grained quartz.

phenocrysts		
plagioclase	4- 5%	
groundmass		
K-feldspar	70-75	
pyrite	0.2	
Ti-oxide	minor	
zircon	trace	
quartz	7- 8	
pyrite	1- 2	(includes pyrite in plagioclase phenocrysts)
replacement patches		
quartz	8-10	
pyrite	0.1	
sericite	minor	
veins		
quartz	3- 4	
sericite	0.1	
pyrite	0.1	

Plagioclase forms subhedral to euhedral, prismatic phenocrysts averaging 0.5-1.7 mm in size. Alteration is complete to aggregates of very fine grained quartz and less abundant, extremely fine grained sericite. Several contain patches of extremely fine grained pyrite. The extreme case is a prismatic patch 1.7 mm long composed almost entirely of extremely fine grained pyrite, with minor patches of extremely fine grained sericite along the margins of the phenocryst. Another sub-rectangular patch 0.8 mm long contains abundant elongated clusters of pyrite grains averaging 0.02-0.03 mm in size intergrown with less abundant interstitial patches of extremely fine grained sericite.

The groundmass is well banded and contains two main textural types. The first has a moderate flow-foliation and contains moderately abundant, prismatic K-feldspar grains averaging 0.02-0.03 mm in length oriented moderately parallel to banding intergrown with much finer grained K-feldspar. The other type has a weaker flow-foliation and contains less abundant prismatic K-feldspar grains, and much more abundant disseminated, cryptocrystalline Ti-oxide grains.

Pyrite forms disseminated grains and clusters up to 0.4 mm in size of grains averaging 0.02-0.05 mm in size and a few disseminated grains up to 0.15 mm in size.

Ti-oxide forms disseminated patches averaging 0.01-0.03 mm in size and locally up to 0.15 mm in size of cryptocrystalline aggregates. A few patches from 0.3-0.7 mm in size may be secondary after primary ilmenite. Zircon forms a few euhedral grains up to 0.1 mm long.

(continued)

Irregular replacement patches and veinlets are of extremely fine grained quartz, which ranges moderately in grain size from early replacement (0.005-0.01 mm) to slightly later replacement (0.01-0.02 mm); the texture of the latter is similar to that of quartz in replaced plagioclase phenocrysts. A few replacement patches contain clusters of slightly coarser grained quartz averaging 0.02-0.05 mm in size; some of these have a poorly developed radiating texture. Pyrite forms a few patches up to 0.15 mm in size of grains averaging 0.02-0.03 mm in size. A few patches contain minor interstitial patches of sericite up to 0.1 mm in size.

Quartz veins up to 0.5 mm in size are of extremely fine to very fine grained aggregates. In larger veins, grains are very fine and commonly are oriented perpendicular to walls of the vein. Pyrite forms a few patches up to 1 mm in size of extremely fine to very fine grains. Some of the veinlets are rimmed by an envelope containing moderately abundant to abundant extremely fine grained quartz as in the replacement patches.

One veinlet averaging 0.07 mm wide is dominated by extremely fine grained quartz, and contains a broad, core containing lenses of extremely fine grained pyrite and/or sericite.

Sample U94TS-003 **Trachyte/Rhyolite Tuff**

Fragments averaging 1-2 mm in size are of a variety of types of trachyte and rhyolite. Important types are porphyritic trachyte flows and rhyolite pumice, both with K-feldspar and plagioclase phenocrysts. The groundmass of the rock is dominated by plagioclase(?). with less abundant K-feldspar and sericite and minor quartz. Minor replacement patches and veinlets are of quartz.

phenocrysts	
K-feldspar	4- 5%
plagioclase	4- 5
biotite	minor
pumice fragments	
K-feldspar-quartz	17-20
groundmass (of tuff and fragments)	
plagioclase/K-feldspar	60-65
sericite	4- 5
quartz	1- 2
hematite patches	1
Ti-oxide	0.3
replacement	
quartz	2- 3
pyrite	0.3
veinlets	
quartz	0.3

K-feldspar forms subhedral to euhedral phenocrysts averaging 0.5-1 mm in size, and a few up to 2.5 mm long.

Strongly altered phenocrysts may represent original plagioclase, which was altered to K-feldspar, which remained in the rock, and patches of sericite or clay(?), which were leached almost completely from the rock. In some of these phenocrysts, K-feldspar along the margin may represent original magmatic overgrowths.

Biotite forms a few phenocrysts up to 0.4 mm in size associated with plagioclase phenocrysts. Biotite is slightly pleochroic from pale to light greenish brown. Some are recrystallized to extremely fine grained aggregates.

The groundmass of much of the rock (= fragments of flows and tuff matrix) consists of cryptocrystalline to extremely fine grained feldspars with minor patches and disseminated grains of quartz. The weak stain (for K-feldspar) on the offcut block suggests that much of the groundmass feldspar is plagioclase. Sericite forms wispy seams and disseminated grains of extremely fine grain size.

Pumice fragments up to a few mm across contain delicate intergrowths of K-feldspar and quartz, commonly as spherules averaging 0.07-0.1 mm in size and locally up to 0.2 mm across with thin rims of K-feldspar and cores of quartz. A few have a finely banded structure.

One fragment a few mm across is of extremely fine grained feldspar with a few rounded patches (amygdules) up to 0.5 mm in size containing outer zones of very fine grained quartz surrounding cavities.

(continued)

A few fragments up to 2 mm long are of very fine grained, slightly lathy feldspar with a weak flow-foliation and minor patches of quartz. Cryptocrystalline Ti-oxide is concentrated on the borders of quartz patches. Textures of the groundmass are somewhat similar to that of the flow-banded groundmass in Sample 002.

One fragment of slightly porphyritic rhyolite/rhyodacite flow contains moderately abundant cryptocrystalline groundmass which is almost isotropic and which contains moderately abundant limonite. It is cut by an irregular veinlet up to 0.6 mm wide of very fine grained quartz. It contains perlitic(?) fractures containing seams of limonite.

A few patches of opaque to deep reddish brown hematite are up to 0.7 mm long, and one patch of opaque hematite is up to 1.5 mm long. All are cryptocrystalline aggregates.

Pyrite forms euhedral grains up to 0.4 mm in size; these were altered completely and leached, leaving only casts.

Ti-oxide forms disseminated grains averaging 0.015-0.05 mm in size and a few patches up to 0.2 mm in size, probably secondary after ilmenite.

A few replacement patches up to 0.3 mm in size are of slightly interlocking quartz grains averaging 0.03-0.07 mm in size.

A few veinlets up to 0.1 mm wide are of very fine grained quartz; most grains are oriented perpendicular to vein walls.

Sample U94TS-004 **Porphyritic, Spherulitic, Hypabyssal Dacite; Quartz Replacement and Veins; Jarosite Veinlets**

Phenocrysts of plagioclase and quartz and spherulites of plagioclase are set in a fine grained groundmass dominated by plagioclase and lesser sericite. Plagioclase phenocrysts are replaced completely by sericite. Quartz phenocrysts commonly have overgrowths of plagioclase with a spherulitic texture. Replacement patches are of very fine grained quartz. Veins and veinlets are of very fine to medium grained quartz; the largest vein is zoned strongly with a coarser grained margin and a much finer grained core. Late veinlets and patches are of limonite and jarosite.

phenocrysts	
plagioclase	7- 8%
quartz	2- 3
(plagioclase overgrowths)	4- 5
spherulitic patches	
plagioclase	2
groundmass	
plagioclase	50-55
sericite	7- 8
quartz	2- 3
pyrite	0.3
Ti-oxide	minor
zircon	trace
replacement patches	
quartz	4- 5
veins, veinlets	
quartz-(jarosite)	12-15
jarosite	0.5

Plagioclase forms subhedral phenocrysts averaging 1.5-2.5 mm in size. Alteration is complete to extremely fine to very fine grained sericite. A few contain patches in which sericite is stained medium orange by limonite.

Quartz forms subrounded phenocrysts averaging 0.3-0.8 mm in size and a few up to 1.5 mm long. A few larger ones have embayed borders. Most are surrounded by overgrowths of plagioclase up to 0.5 mm thick; these commonly have a spherulitic texture.

Scattered spherulitic patches up to 1 mm in size are of radiating aggregates of prismatic plagioclase grains.

The groundmass is dominated by anhedral, slightly interlocking plagioclase grains averaging 0.1-0.3 mm in size, with a few grains up to 0.5 mm across. A few patches are of plagioclase grains averaging 0.02-0.05 mm in size. Sericite forms irregular patches up to 0.3 mm in size and disseminated flakes, mainly as a replacement of plagioclase. Quartz forms disseminated grains and clusters of grains averaging 0.05-0.2 mm in grain size.

(continued)

Pyrite forms disseminated subhedral to euhedral grains averaging 0.03-0.07 mm in size. Alteration is complete to light orange limonite or jarosite. Rectangular cavities averaging 0.2-0.4 mm in size may represent leached pyrite grains.

Ti-oxide forms disseminated grains and clusters of grains averaging 0.02-0.05 mm in size.

Zircon forms a few equant to prismatic, euhedral grains up to 0.1 mm long.

Replacement patches up to a few mm in size are of intergrowths of quartz grains, which range from prismatic grains up to 0.15 mm long to equant grains averaging 0.02-0.05 mm in size.

Quartz veins up to 3.5 mm wide are dominated by subhedral to submosaic grains averaging 0.3-1 mm in size; a few prismatic grains are up to 2 mm long and contain fine growth zones with slightly variable extinction. The largest vein is zoned strongly. On the border, grains averaging 0.5-1 mm long (and locally up to 2 mm long) are oriented perpendicular to vein walls. These commonly have euhedral terminations towards the core of the vein. Interstitial patches up to 0.8 mm in size are of cryptocrystalline limonite/jarosite.

The core of the vein, up to 2 mm wide is filled by two stages of quartz. Most of it consists of very fine grained quartz containing scattered, ragged prismatic grains up to 0.1 mm long, and scattered prismatic grains averaging 0.5-0.8 mm in size. Locally along one side of the central cavity is a zone of extremely fine grained quartz. Both contain disseminated, cryptocrystalline grains of limonite/jarosite, which are much more abundant in the finer grained zone.

Quartz also forms numerous irregular veinlets averaging 0.1-0.3 mm in width of grains averaging 0.07-0.2 mm in size.

Late veinlets up to 0.07 mm in width are of cryptocrystalline jarosite.

Sample U94TS-005 **Porphyritic Trachyte Welded Tuff or Flow**

Phenocrysts of K-feldspar and plagioclase are set in a groundmass dominated by K-feldspar and plagioclase with minor quartz. Compositional banding, which is obvious in the hand sample and in the stained offcut block, is not as obvious in the thin section. It is defined mainly by variation in the ratio of K-feldspar to plagioclase and in the grain size of layers/patches.

phenocrysts			
K-feldspar	5- 7%		
plagioclase	5- 7		
groundmass			
K-feldspar	70-75	hematite	0.2%
plagioclase	10-15	zircon	trace
quartz	3- 5	apatite	trace
Ti-oxide	0.2		

K-feldspar forms subhedral phenocrysts averaging 0.5-1 mm in size. These range from fresh to altered slightly to moderately to seams and patches of sericite.

Plagioclase forms euhedral phenocrysts averaging 0.7-1.5 mm in size and a few up to 2 mm across. Some are rimmed by magmatic overgrowths of K-feldspar. Alteration is complete to a variety of products. In some it is to extremely fine grained sericite/clay and patches of one or more of K-feldspar, quartz, and sodic(?) plagioclase. In some it is to intergrowths of very fine grained quartz and extremely fine to very fine grained sericite. The latter has a pale green to brown colour, and probably is the pale green mineral in hand sample. In some phenocrysts, sericite/clay was leached from the rock.

A cluster 2 mm in size is of an intergrowth of phenocrysts of K-feldspar and plagioclase, with moderately abundant disseminated grains of hematite averaging 0.1-0.2 mm in size, possibly after pyrite. Apatite forms one prismatic grain 0.15 mm long.

A few equant phenocrysts up to 0.6 mm in size (possibly hornblende or plagioclase) are replaced completely by very fine grained aggregates of quartz and (sodic?) plagioclase, with moderately abundant patches of opaque hematite. Some also contain cryptocrystalline patches of clay/sericite(?).

The groundmass contains moderately abundant, disseminated grains and patches of equant grains of feldspar averaging 0.02-0.03 mm in size containing moderately abundant dusty to extremely fine grained opaque. These patches are intergrown with patches of cryptocrystalline feldspars containing minor sericite and dusty semi-opaque. Quartz forms patches averaging 0.05-0.2 mm in size of grains averaging 0.03-0.06 mm in size; some of these may be of replacement origin.

Hematite forms disseminated grains up to 0.15 mm in size; grains are complexly twinned and may contain intergrowths of ilmenite. Cores of grains are opaque, but thin margins are deep red in colour.

Ti-oxide forms disseminated patches averaging 0.1-0.15 mm in size, probably after primary ilmenite. It also forms grains averaging 0.02-0.03 mm in size in both groundmass and altered plagioclase phenocrysts.

Zircon forms equant euhedral grains averaging 0.03-0.05 mm in size.

Sample U94TS-006 **Brecciated Hypabyssal Dacite;**
Replacement by Quartz-(Pyrite) Matrix; Quartz Veins

Minor plagioclase phenocrysts are set in a groundmass of fine grained plagioclase and much less quartz. The rock was brecciated into fragments averaging a few mm to a few cm in size and replaced strongly by two stages of siliceous replacement, the first of very fine to extremely fine grained quartz and minor pyrite and the second by patches and veinlets of very fine to fine grained quartz.

phenocrysts	
plagioclase	1- 2%
groundmass	
plagioclase	30-35
quartz	3- 4
pyrite	0.5
sphalerite	trace
zircon	•
chalcopyrite	*
replacement, veins	
1) quartz	35-40
sericite	3- 4
pyrite	1- 2
2) quartz	17-20

Plagioclase forms a few subhedral phenocrysts up to 2 mm long. Alteration is complete to intergrowths of quartz grains averaging 0.1-0.2 mm in size and patches of extremely fine grained sericite flakes. Locally sericite forms clusters of a few radiating aggregates of flakes up to 0.1 mm in size.

The groundmass is dominated by anhedral plagioclase grains averaging 0.2-0.7 mm in size. A few patches are of grains averaging 0.05-0.1 mm in grain size. A few patches up to 1 mm in size have a spherulitic texture as in Sample 004. Alteration of plagioclase is slight to locally moderate to disseminated grains and patches of sericite. Some patches of plagioclase are cut by numerous patches and veinlets of very fine grained quartz. Quartz forms interstitial patches and grains averaging 0.1-0.5 mm in size. It commonly is difficult to distinguish original quartz from replacement quartz.

Pyrite forms disseminated grains averaging 0.05-0.1 mm in size, and a few up to 0.4 mm across.

Sphalerite forms a few clusters averaging 0.2-0.4 mm in size of grains averaging 0.03-0.08 mm in size in plagioclase. One grain contains moderately abundant exsolution blebs of chalcopyrite averaging 2- 3 microns in size; the other grains are free of such inclusions.

Ti-oxide forms clusters up to 0.15 mm in size of anhedral grains averaging 0.02-0.05 mm in size.

Zircon forms a few subhedral grains up to 0.1 mm long.

(continued)

One argillite fragment 0.8 mm long is of extremely fine grained sericite with wispy seams of semi-opaque (probably Ti-oxide) and minor grains up to 0.03 mm across of zircon. Foliation is warped slightly to moderately.

Early quartz replacement is mainly of anhedral grains averaging 0.02-0.07 mm in size, with scattered to locally abundant coarser, commonly subhedral to euhedral grains averaging 0.1-0.3 mm in size and locally up to 0.5 mm long. Pyrite forms disseminated grains averaging 0.07-0.2 mm in size and a few patches up to 1 mm long. Sericite forms irregular patches averaging 0.2-0.5 mm in size (possibly after original plagioclase phenocrysts), and disseminated grains in some of the finer grained quartz replacement patches.

Later replacement patches up to 1.5 mm across and veinlets averaging 0.2-0.4 mm wide are of very fine to fine grained quartz. Some replacement patches of quartz grains averaging 0.2-0.5 mm in size are intergrown in irregular patches with finer grained replacement quartz. A few patches have vuggy cores lines with euhedrally terminated quartz grains. Pyrite forms anhedral grains averaging 0.2-0.5 mm in size.

Sample U94TS-007 **Brecciated Trachyte Flow**

Fragments ranging from less than 0.2 mm to 8 mm across of a slightly porphyritic trachyte flow are set in a tuffaceous matrix dominated by plagioclase with patches of slightly coarser grained quartz, possibly in part of replacement origin. Veinlets are of quartz-sericite-(opaque) and limonite.

trachyte fragments	
phenocrysts	
plagioclase	1- 2%
K-feldspar	0.3
groundmass of fragments	
K-feldspar	25-30
sericite	3- 4
limonite/hematite	0.3
zircon	trace
breccia matrix	
plagioclase	50-55
quartz	5- 7
Ti-oxide	0.5
hematite	0.1

veinlets	
quartz-sericite-(opaque)	0.2%
limonite	0.1
cavity fillings	
quartz	minor
sericite	minor

Plagioclase forms subhedral to euhedral phenocrysts averaging 0.5-1.5 mm in size. Alteration is complete to extremely fine grained sericite and patches of dusty hematite. Some also contain patches of very fine to extremely fine grained quartz.

K-feldspar forms subhedral phenocrysts averaging 0.1-0.3 mm in size. Most are fresh to altered slightly along cleavage to sericite. Smaller fragments occur in the breccia matrix.

The groundmass of the fragments is dominated by cryptocrystalline K-feldspar (probably also much less plagioclase) with disseminated flakes of sericite averaging 0.02 mm long. Scattered equant grains of K-feldspar are up to 0.02 mm in size. The abundance of sericite varies moderately between fragments. Ti-oxide is concentrated moderately in irregular patches up to 0.5 mm in size as cryptocrystalline aggregates. Zircon forms a few subhedral, equant grains 0.03 mm in size. In a few fragments, the groundmass is stained light to medium orange-red by limonite/hematite. A few fragments contain patches up to 1 mm in size of very fine grained quartz, probably of replacement origin.

The breccia matrix is dominated by plagioclase and much less abundant quartz grains averaging 0.003-0.01 m in grain size. (The stained offcut block indicates that the K-feldspar content of the matrix is very low.) Quartz also forms patches up to 0.15 mm in size of grains averaging 0.02-0.03 mm in grain size. Semi-opaque (probably Ti-oxide) forms abundant disseminated grains up to 0.01 mm in size. Deep red-brown to opaque hematite forms a few patches up to 0.2 mm in size.

A few cavities from 0.2-0.3 mm across in the matrix contain a rim up to 0.02 mm wide of extremely fine grained quartz, an interior zone up to 0.07 mm wide of extremely fine grained sericite, and a central cavity up to 0.15 mm across.

A wispy veinlet averaging 0.02-0.03 mm wide is of extremely fine grained quartz and sericite, with a few lenses of opaque.

Limonite/hematite occurs along and bordering a few late fractures up to 0.02 mm wide.

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CLAIM BOUNDARY

N

TL 40 W | 38 W | 36 W | 34 W | 32 W | TL 30 W | 28 W | 26 W | 24 W | 22 W | 20 W

L.58 N
L.56 N
L.54 N
L.52 N
L.50 N
L.49 N
L.48 N
L.46 N
L.44 N
L.42 N
L.40 N

50 W | 48 W | 46 W | 44 W | 42 W

3800
3700
3600
3900
4000
4100

L.51 N

o/b
pine forest
(6 float?)
(6 float)
(5 float)
(6 boulder)
6 bld float
s/c
8

94UTF-013
94UTF-014
94UTF-015
94UTS-001
94UTS-002
94UTF-016
94UTF-017
94UTF-018
manganese stain abundant.

94UTR-001
94UTR-003
94UTR-007
94UTR-008
94UTR-009
94UTR-010
94UTR-011
94UTR-012
94UTF-007
94UTF-008
94UTF-009
94UTF-010
94UTF-020
94UTC-006
94UTC-007
TR94-1
TR94-2A
TR94-2B
TR94-2C
TR94-3A
TR94-3B
TR94-3C
TR94-4
TR94-5
TR94-6

Uduk Lake

Lake

TO CHIEF MAIN

GEOLOGICAL BRANCH
ASSESSMENT REPORT

23,928

Legend

- jointing
- vein
- bedding, flows
- petrographic sample
- rock sample
- pre-1994 rock sample
- soil sample
- outcrop
- subcrop
- overburden
- I.P. chargeability, contour interval 10 milliseconds
- backhoe trench
- drill hole location
- access trail, surveyed position
- access trail, estimated position

Uduk Lake Geological Legend

8. Till, clay, boulders
   i) pale buff coloured clay till derived from argillic altered local bedrock, + angular siliceous cobbles
   ii) green clay till derived from local bedrock, + angular siliceous boulders
7. Veins
   i) quartz pyrite breccia vein
   ii) hydrothermal quartz vein stockwork
6. Trachyte plagioclase/K feldspar porphyry flow/tuff
   i) breccia
   welded tuff
   spherulitic flow
5. Green trachyte/feldspar porphyry/breccia
4. Rhyolite q.. z feldspar porphyry tuff
3. Heterolithic volc.. breccia
2. Tuffaceous siltstone
1. Porphyritic spherulitic hypabyssal dacite
   i) breccia

a) argillic alteration
b) silicification
c) quartz vein
d) quartz vein stockwork
e) pyrite
f) hematite

0 50 100 200 300 400 500
METRES

Pioneer Metals Corporation		
UDUK LAKE PROJECT Omineca M.D., B.C.		
Geology and Trenches		
	Scale: 1 : 5000	Map 1
	Date: September 1994	
	N.T.S. 92·F/12, 93·E/9	

CLAIM BOUNDARY

N

TL 40 W | 38 W | 36 W | 34 W | 32 W | TL 30 W | 28 W | 26 W | 24 W | 22 W | 20 W

L.58 N
L.56 N
L.55 N
L.54 N
L.53 N
L.52 N
L.51 N
L.50 N
L.49 N
L.48 N
L.47 N
L.46 N
L.45 N
L.44 N
L.43 N
L.42 N
L.41 N
L.40 N
L.39 N
L.38 N

50 W | 48 W | 46 W | 44 W

3800 | 3700 | 3600 | 3900 | 4000

Uduk Lake | Lake | Lake

Mounty B | Mounty B

CHIEF MAIN

GEOLOGICAL BRANCH
ASSESSMENT REPORT
23,928

Legend

- Au (ppb) < 5
- Au contours, in ppb
- no sample
- I.P. chargeability, contour interval 10 milliseconds
- swamp
- backhoe trench
- drill hole location
- access trail, surveyed position
- access trail, estimated position

= Till

0 50 100 200 300 400 500
METRES

Pioneer Metals Corporation

UDUK LAKE PROJECT
Omineca M.D., B.C.

Soil Geochemistry
Au (ppb)

Scale:	1 : 5000	Map 2
Date:	September 1994	
N.T.S.	92-F/12, 93-E/9	

CLAIM BOUNDARY

N

TL 40W | 38W | 36W | 34W | 32W | TL 30W | 28W | 26W | 24W | 22W | 20W

50W | 48W | 46W | 44W

L.58N
L.56N
L.55N
L.54N
L.53N
L.52N
L.51N
L.50N
L.49N
L.48N
L.47N
L.46N
L.45N
L.44N
L.43N
L.42N
L.41N
L.40N
L.39N
L.38N

3900
3700
3600
4000

Uduk Lake

Lake

Lake

Lake

TR94-1
TR94-1C
TR94-2C
TR94-2B
TR94-3A
TR94-3B
TR94-4
TR94-5
TR94-6

TO CHIEF MAIN

Legend:

- Ag (ppm) < 0.2
- Ag contours, in ppm
- ns — no sample
- I.P. chargeability, contour interval 10 milliseconds
- swamp
- backhoe trench
- drill hole location
- access trail, surveyed position
- access trail, estimated position

0 50 100 200 300 400 500
METRES

GEOLOGICAL BRANCH
ASSESSMENT REPORT

23,928

Pioneer Metals Corporation

UDUK LAKE PROJECT
Omineca M.D., B.C.

Soil Geochemistry
Ag (ppm)

Scale:	1 : 5000	Map
Date:	September 1994	3
N.T.S.	92-F/12, 93-E/9	

CLAIM BOUNDARY

N

TL 40 W — 38 W — 36 W — 34 W — 32 W — TL 30 W — 28 W — 26 W — 24 W — 22 W — 20 W

50 W — 48 W — 46 W — 44 W — 42 W

L.59N
L.58 N
L.56N
L.55N
L.54 N
L.53N
L.52 N
L.51 N
L.51 N
L.50N
L.49N
L.48N
L.47N
L.46N
L.45N
L.44N
L.43 N
L.42N
L.41N
L.40N
L.39N
L.38N

3800
3700
3600
3900
4000

TR94-1
TR94-2A
TR94-2B
TR94-2C
TR94-3
TR94-3A
TR94-3B
TR94-4
TR94-5

TO CHIEF MAIN

Uduk Lake
Lake
Lake

GEOLOGICAL BRANCH
ASSESSMENT REPORT

23,928

Legend

- As (arsenic) ppm < 5
- As contours, in ppm
- ns — no sample
- I.P. chargeability, contour interval 10 milliseconds
- swamp
- backhoe trench
- drill hole location
- access trail, surveyed position
- access trail, estimated position

0 50 100 200 300 400 500
METRES

Pioneer Metals Corporation
UDUK LAKE PROJECT
Omineca M.D., B.C.

Soil Geochemistry
As (ppm)

Scale:	1 : 5000	Map 4
Date:	September 1994	
N.T.S.	92·F/12, 93·E/9	