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**AURCHEM EXPLORATION LTD.
26 LIARD ROAD
WHITEHORSE, YUKON TERRITORY
Y1A 3L4**

DISCOVERY CREEK PROJECT

**EXPLORATION REPORT FOR 2002
GEOLOGICAL, GEOCHEMICAL AND TRENCHING**

ON THE

**BULL 3 – 4 and JBF 7
MINERAL CLAIMS**

In The

WHITEHORSE MINING DISTRICT

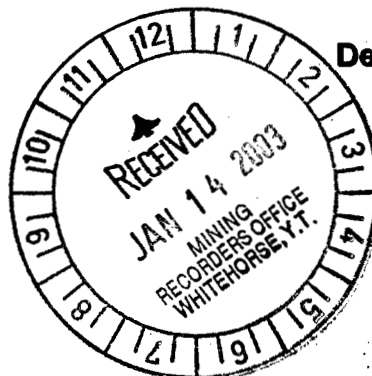
YUKON TERRITORY

NTS 115 I/3

Latitude 62°07' N Longitude 137°08'W

R. Stroshein, P. Eng.

December 30, 2002



This report has been examined by
the Geological Evaluation Unit
under Section 53 (4) Yukon Quartz
Mining Act and is allowed as
representation work in the amount
of \$ 13,500.00.

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

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Whitehorse, Yukon Y1A 2C8

1.0 SUMMARY

The Discovery Creek Project, located in the Mount Nansen area of Central Yukon encompasses a significant number of gold-silver mineralized occurrences. Exploration including geochemical soil sampling, geological mapping, ground and airborne geophysical surveys, trenching, reverse circulation drilling and diamond drilling has been carried out on mineralized occurrences throughout the property.

A program of excavator trenching and bulldozer stripping was undertaken to test two separate targets in the area of the Eliza Creek Extension zone. Overburden stripping and excavator trenching was applied to expose an earlier trench along section 47 N. Drill hole intersections in the area indicated a possible mineralized breccia body could be projected to surface along section 47N. A second trench was excavated east of the 00 baseline near section 41 N to test a broad gold-in-soil geochemical anomaly.

Multiple trenches (Tr-1 to Tr-4) along and adjacent section 47 N exposed a northerly trending clay altered quartz-feldspar porphyry dyke containing gold bearing quartz veinlets. The dyke is approximately 4.0 metres wide with gold-silver values grading up to 3.01 and 8.6 g/t across 2.0 metres. A grab sample of vein material graded 7.75 and 14.6 g/t gold and silver respectively. The dyke intrudes weathered and altered hornblende granodiorite that is unconformably overlain by Mount Nansen Group mafic volcanic rocks. Rusty weathering, clay-rich shear zones within the granodiorite and overlying volcanics contain anomalous gold-silver values ranging up to 0.598 and 11.3 g/t respectively.

Trench T-5 was located along an access road and previously disturbed drill staging area within a flat lying saddle area. Soil sampling in the area indicated a broad anomalous gold zone with gold-in-soil values greater than 100 ppb and up to 1053 ppb. The 100 metre long trench exposed several clay-rich shear zones trending ENE. A thirty metre long zone (true width of 13 metres) yielded an average grade of 1.27 and 4.0 g/t gold and silver. This mineralization is a new discovery of gold and silver.

2.0 INTRODUCTION

The exploration program carried out in 2002 was designed to test two targets developed from compilation of the extensive exploration data generated in the past 20 years and to examine the structure exposed in outcrop or previous exploration workings.

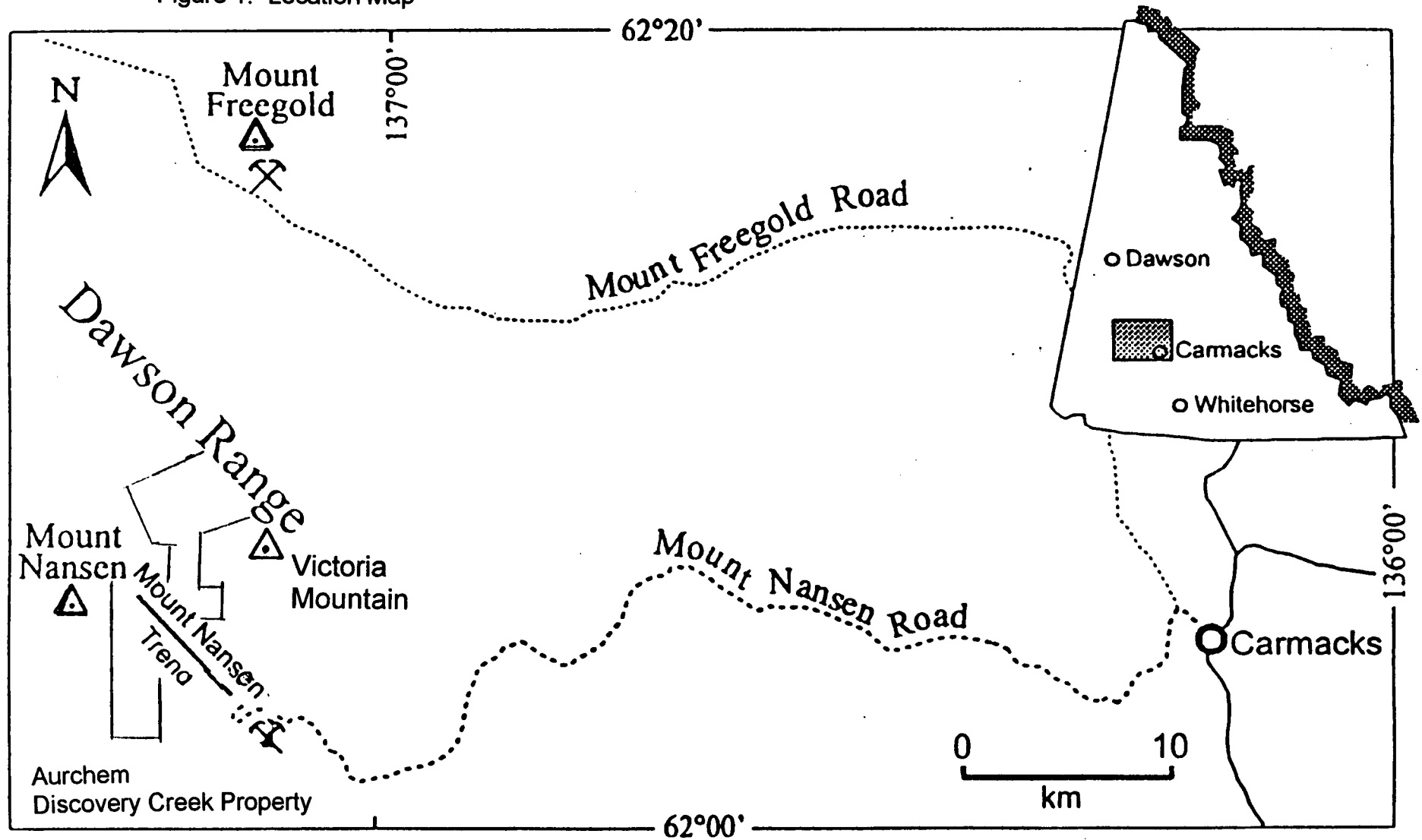
Drill and trench results at the Eliza Creek Extension zone had indicated a strongly mineralized but discontinuous quartz-tourmaline breccia body that had been difficult to correlate across the drill sections. Faulting in the district was known to be post-mineralization and faults that had been previously outlined were extrapolated from other areas. Section 47N was chosen for examination because an intersection in RC drill hole 94-05 yielded an assay average of 4.39 g/t gold and 5.4 g/t silver over an interval of 48.8 metres. The mineralized zone was enveloped by low-grade mineralization very near surface. A high-grade interval within the mineralized breccia zone assayed 37.8 g/t gold at a vertical depth of approximately 20 metres. Trenching on the target had previously been attempted but was abandoned due to the presence of frozen ground.

A broad (300 metres by 150 metres) untested gold-in-soil anomaly east of the 00 BL was investigated with a one hundred metre long trench sub-parallel to section 41 N. The surface area was previously disturbed and the ground was not frozen. Soil samples in the area routinely returned values of greater than 100 ppb with a high value of 1053 ppb gold in one sample. Drill hole 94 - 19 intersected the north trending subsidiary shear zone on the north flank of the main ENE trending gold bearing structure. The drill hole intersected a 1.5 metre interval in strongly oxidized clay-rich zone that assayed 5.23 g/t gold and 21.4 g/t silver.

2.1 Property Location and Access

The Discovery Creek property (Latitude: 62° 07' N, Longitude: 137° 08' W) is located approximately 65 kilometres west of Carmacks in South Central Yukon Territory. Figure 1.

Figure 1. Location Map



The property is accessible by a gravel road from Carmacks and within the property a network of roads and trails provides access to all of the workings and showings on the claims.

2.2 Property Description

The Discovery Creek project consists of 351 quartz mineral claims and 7 mineral leases. The outline of the property is shown in Figure 2. The detailed listing of claims and expiry dates are included in Appendix 2.

3.0 HISTORY

Placer gold was discovered on Nansen Creek in 1899. Placer mining has been carried out intermittently on the creeks in the area since 1910. Lode gold was discovered at the nearby Brown-McDade deposit in 1943 that led to the discovery of numerous other deposits in the district. Figure 3.

From 1946 to 1975 several corporate groups undertook mining and development of the Brown-McDade, Webber and Huestis deposits in the southern portion of the district. Gold recoveries were poor but confirmed the presence of high-grade gold-silver deposits in the district.

During the 1970's exploration for porphyry copper-molybdenum mineralization centred on the Mount Nansen Porphyry complex in the central portion of the property. Widespread drilling confirmed the presence of a large low-grade porphyry mineralized system in the area at the headwaters of Nansen and Victoria Creeks and their tributaries.

Exploration resumed in the 1980's that ultimately lead to the development of an open pit mining operation on the Brown-McDade deposit. The operation produced approximately 37,500 ounces of gold and 142,000 ounces of silver between 1996 and 1999. Other exploration companies were active during this period exploring the claims that now comprise the Aurchem Exploration Discovery Creek Project. The exploration activity included soil geochemical sampling, ground geophysics, trenching, reverse circulation drilling and diamond drilling.

Aurchem Exploration concentrated exploration in the area flanking the Mount Nansen Porphyry near the headwaters of Discovery Creek. Other companies explored the Vic claims during this period.

Aurchem Exploration carried out a program of limited trenching on the Wedge claims and the Eliza Creek Extension zone in 2001.

4.0 GEOLOGY

The Discovery Creek gold-silver property is located in the Dawson Range of the Yukon Tanana Terrane. The Dawson Range is underlain by Early Mississippian metamorphic rocks intruded by several plutonic suites (Carlson, 1987). Figure 3.

The metamorphic rocks are separated into two suites, meta-sedimentary and meta-igneous. Micaceous quartz-feldspar gneiss, schist, and quartzite of the Nasina assemblage form the meta-sedimentary rock suite. The meta-igneous package includes biotite-hornblende feldspar gneiss and coarse-grained granodiorite orthogneiss with lesser amphibolite.

The metamorphic rocks are intruded by Mid Cretaceous felsic plutonic rocks of the Coffee Creek Plutonic Suite and capped by the coeval mafic to intermediate volcanic flow and tuff rocks of the Mount Nansen Volcanic suite (Johnston and Mortensen, 1994). Genetically related sub-volcanic feldspar porphyry dikes and plugs intrude all rock types (Sawyer and Dickinson, 1976).

Figure 2. Claim Map from NTS sheet 115 I 3

Aurchem Exploration Ltd.
Outline of Discovery Creek Project

Approximate scale 1 : 825

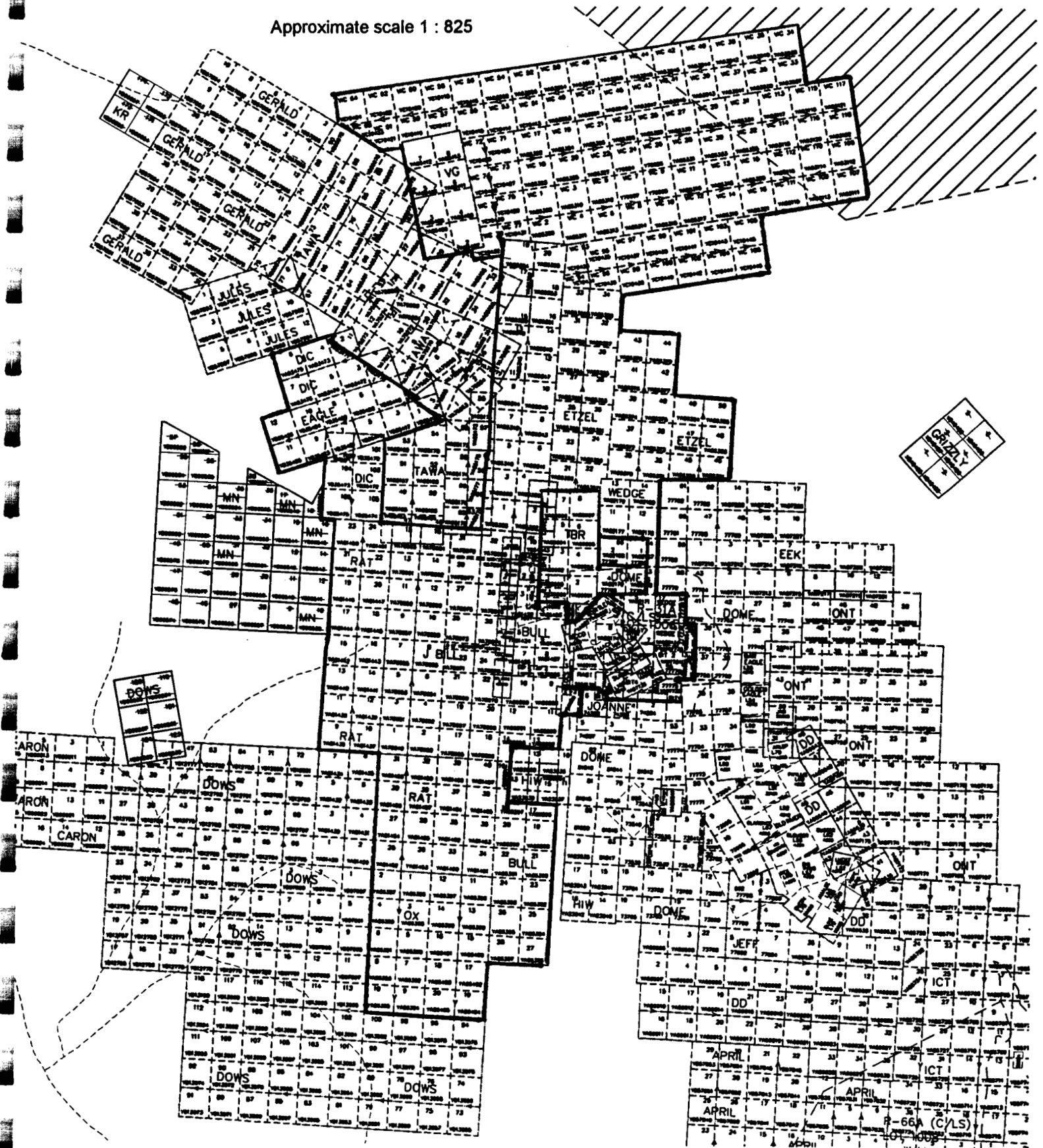
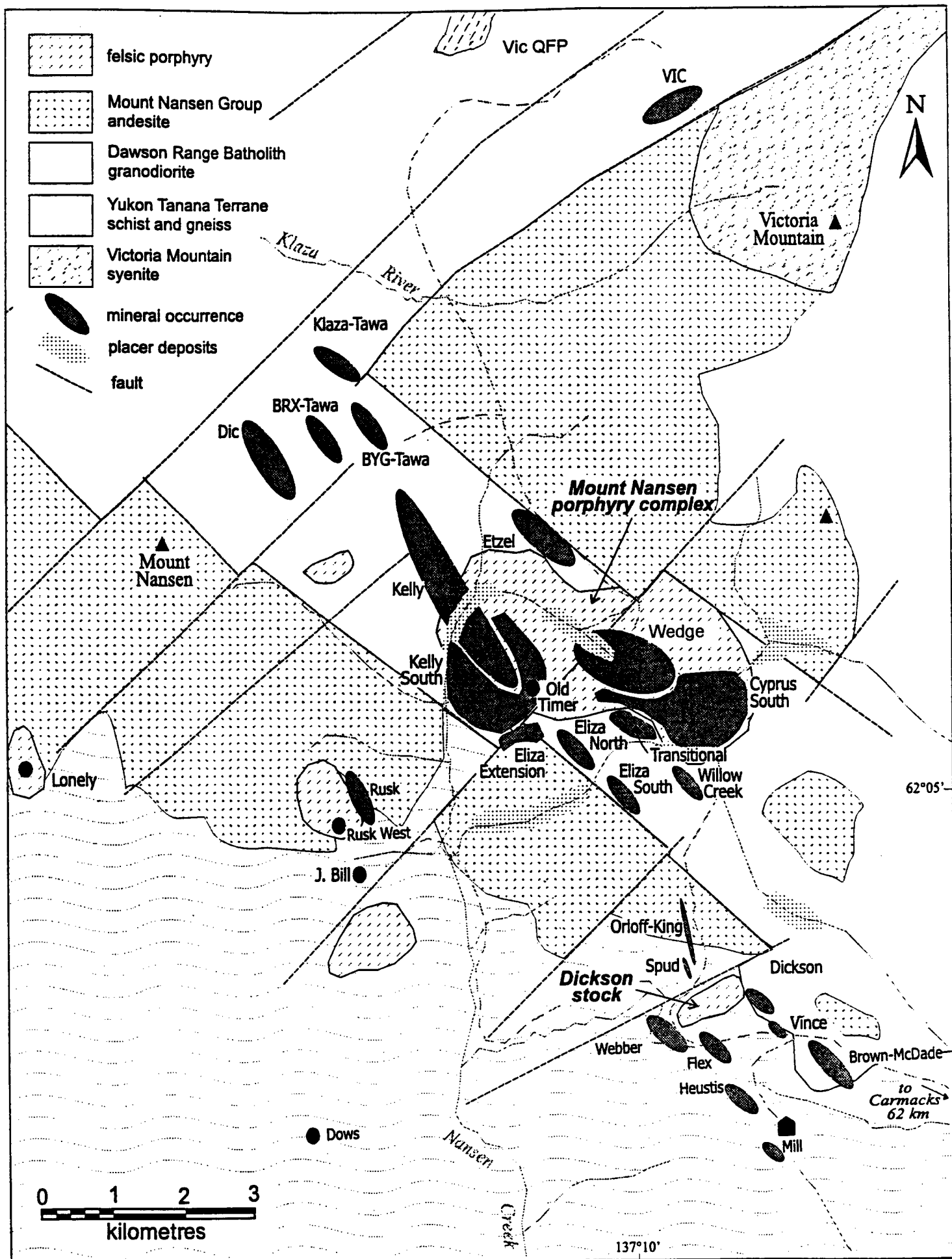


Figure 3. Geology Map with Mineral Occurrences in the Mount Nansen District



The Late Cretaceous Carmacks Volcanic Suite, although lacking in the immediate Mount Nansen area is voluminous in the region where relatively flat lying pyroclastic tuffs and flow units form prominent ridges capping the basement rocks (Carlson, 1987). The Carmacks Volcanic Suite is magmatically related to the Prospector Mountain Plutonic Suite (Johnston and Mortensen, 1994).

Mineralized structures on the Mount Nansen property consist of fault-shear-hosted veins and associated clay-rich and bleached alteration zones (Figure 3). The vein zones range from narrow, simple quartz veins to complex, anastomosing and braided systems that crosscut all rock types. They trend northwest to north-northwest, and are generally steeply dipping across a two kilometre wide corridor called the Mount Nansen Trend. The Mount Nansen Trend is sub-parallel to the Big Creek Fault, an apparent control to mineralization in the Dawson Range (Carlson, 1987; Hart, Langdon, 1997). The structures are interpreted as dilational fracture systems peripheral to the Middle Cretaceous porphyry intrusive bodies.

Geochronological studies indicate that the U-Pb dating gives a time of 109 Ma for porphyry intrusive bodies that are interpreted as coinciding with the main mineralizing event in the district. (V. Meyers, B.Sc. thesis).

The Mount Nansen area was beyond the limit of the most recent continental glaciation although earlier incursions moved up the valley bottoms. Weathering extends to depths of up to 75 metres below surface which is accompanied by leaching and oxidation in the mineralized zones, and sulphides are commonly altering to limonite or other oxides (Melling, 1995).

5.0 CURRENT WORK PROGRAM

The Eliza Creek Extension trench locations were examined on July 11. Figure 4. The earlier trenches on section 47 N had been back filled or the walls had sloughed. The excavator was moved to the Bull 3 and JBF 7 claims to begin the trenches along Section 47 N on July 14. The area was underlain by permafrost. A combination of bulldozer stripping, thawing and excavator trenching was carried out on the main trench on section 47 N and smaller subsidiary trenches adjoining the main trench. The trenching was completed on July 27.

The trenches (T - 1 - 4) were mapped and sampled July 27 - 28. Structural measurements were recorded and a map subsequently prepared. Figure 5. A total of twenty-two rock samples were collected to characterize the mineralization and enclosing alteration. The sample descriptions and field sketch maps are included in Appendix 3. The samples were analyzed for gold plus a 32-element suite of metals and trace elements and submitted to ALS Chemex Laboratories in Vancouver. The analytical results are included in Appendix 4.

Trench T-5 was excavated on July 16. The trench was mapped and sampled on October 3. A total of 23 two-metre long channel samples were collected from orange-brown weathering clay-rich shear zones in weathered hornblende granodiorite. The sampled shear zones are shown on trench map Figure 4 and sample descriptions with field sketch are included in Appendix 3. The samples were shipped to ALS Chemex for gold and multi-element ICP analysis in Vancouver. The analytical results are included in Appendix 4.

6.0 RESULTS OF CURRENT EXPLORATION

Host rocks for the Eliza Creek extension zone are predominantly sheared hornblende granodiorite that has locally been intruded by felsic porphyritic dykes. The Mount Nansen volcanic rocks are of mafic to intermediate composition and unconformably overlie the plutonic rocks.

NNE trending shear zones were exposed in the trenches along section 47 N. Figure 4. The shear zones are through going, cutting the overlying Mount Nansen volcanics in T-4. The shear zones dip at approximately 75° to the west. These faults are consistent with similar structures in the district that exhibit sinistral movement.

SAMPLE NO. - Aug 16, Ag 3

019 - 0.598, 11.3

see figure 5

MN VOLCANICS

GRANODIORITE
4- QFP

4800E-

4900E-

5000E-

5100E-

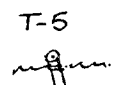
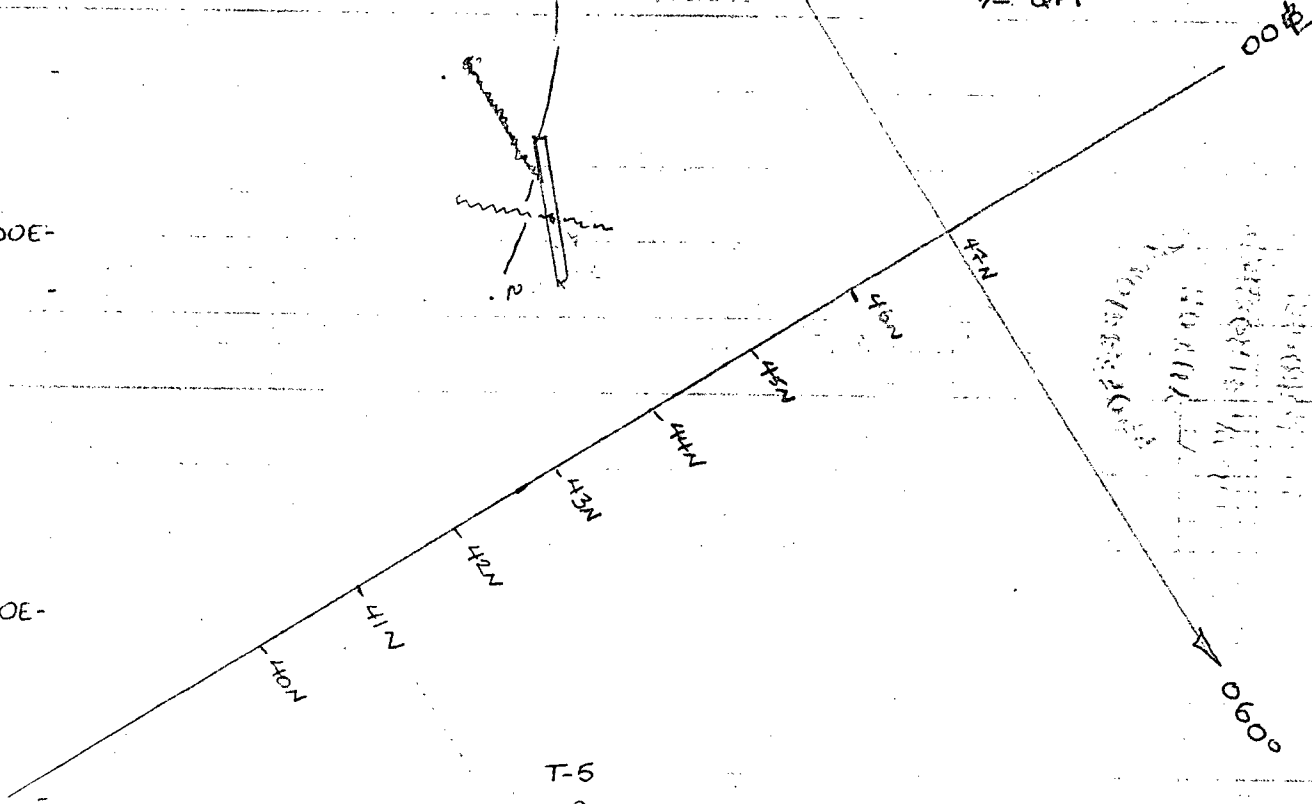
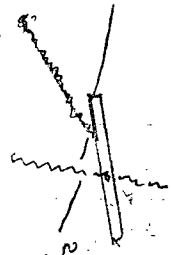
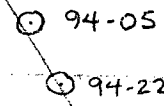
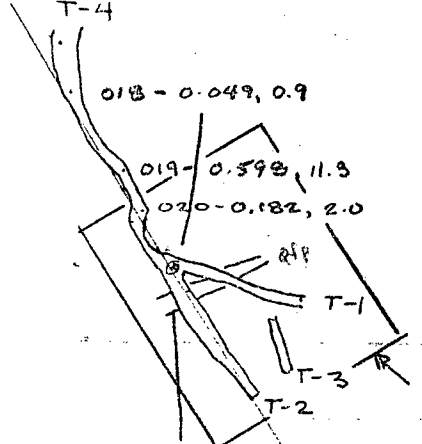
5200E-

5300N

5400N

5500N

5600N



2.0m - 1.42, 2.2
JBF 014

GRANODIORITE

94-190

13m (TW) 1.27, 4.0

width - Aug 16, Ag 3
2.0m - 1.42, 2.2



T-4
0.182, 2.0

T-4
0.1403, 8.5
0.005, <0.2

MN VOLE
ANDESITE

GRANODIORITE

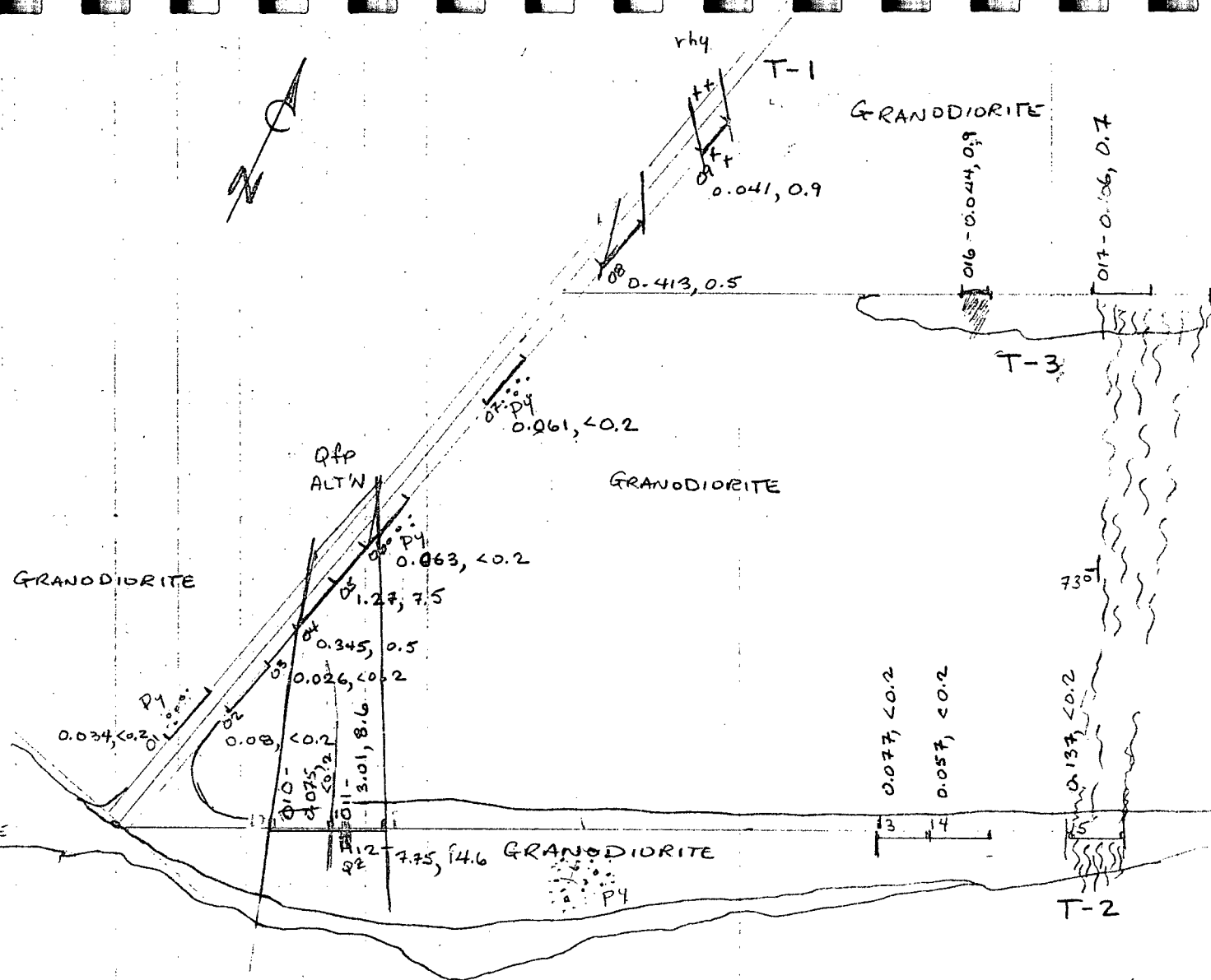
QAP
ALT N

GRANODIORITE

GRANODIORITE

Sample No. - Au g/t, Ag g/t
04 - 0.345, 0.5

TIT MOUNTAIN
TRENCH PLAN VIEW
SECTION 47 N
SCALE 1:1000
T-1 to T-4
Figure 5



The mineralization in T-1 consists of quartz stringer/veinlet stockwork within intensely clay-altered zones. The pervasive argillic alteration envelops the sulphide-rich veins and forms hanging wall and footwall haloes up to four metres thick encompassing all of the felsic dyke. Manganese oxides occur peripheral to the clay zones surrounding the mineralized stockwork veins. The distinctive yellowish-green stain of silicification accompanies the quartz-sulphide veins and is a visual indicator of high-grade gold value. See appendix 3 for trench field logs and sample descriptions.

Assay results indicate that the gold-silver values are primarily concentrated in the quartz stingers and veinlets. The two-metre wide stockwork zone in T-1 assayed 3.01 g/t gold and 8.6 g/t silver. A separate sample of the veinlets assayed 7.75 g/t gold and 14.6 g/t silver. The clay-altered zone assayed 0.075 g/t gold and less than 0.2 g/t silver. Through going shears in the volcanic cap rocks contain anomalous gold-silver values up to 0.598 g/t gold and 11.3 g/t silver.

N and ENE trending shear zones were exposed in trench T-5. The shear zones are clay rich and rusty weathering. The four shear zones includes a major zone near the east-end of the trench (true width of 13 metres) and three subsidiary zones of two to ten metres. The subsidiary shear zones contain anomalous levels of gold and silver grading up to 1.42 g/t gold and 2.2 g/t silver. The major shear zone averaged 1.27 g/t gold and 4.0 g/t silver. A two-metre interval assayed 5.73 g/t gold and 12.9 g/t gold within the major shear zone.

7.0 CONCLUSIONS AND RECOMMENDATIONS

Gold-silver mineralization occurs in quartz veins and clay alteration zones in feldspar porphyry dykes and in clay-rich shear zones within hornblende granodiorite and overlying Mount Nansen volcanic rocks. Gold-silver values of up to 7.75 g/t gold and 14.6 g/t silver were returned from quartz veinlets in a clay-altered feldspar porphyry dyke in trench T-1.

The broad (13 metre wide) rusty weathering shear zone exposed in trench T-5 averaged 1.27 g/t gold and 4.0 g/t silver and represents a new discovery of gold-silver mineralization. The shear zone trends ENE with three subsidiary zones of two - four metres width the main shear. Further trenching and diamond drilling is recommended to test the extent of the mineralized shear zone.

The relative high intensity of drilling on the Eliza Creek Extension Zone has provided abundant detailed information that requires re-interpretation to locate the potential for offset mineralization. Gold-silver values of 5.73 g/t gold and 12.9 g/t silver were obtained from a clay-rich rusty weathered shear zone in trench T-5. The trench drill hole data should be compiled in a combined database for re-evaluation. Computerization of the data is the most efficient method for compiling such a large database.

Diamond drilling is recommended to locate and characterize gold-silver mineralization and to better define structural controls in the area.

8.0 SUMMARY OF EXPENDITURES

The exploration fieldwork was carried out between July 11 and October 3. Target evaluation and preparation of results was carried intermittently between February and December.

JBF 7 claim – research, trenching, geological mapping and compilation of results during 2002.

Data collection and compilation	R. Stroshein	2 days @ \$ 400 /day	\$ 800.00
Field work	R. Stroshein	1 day @ \$ 400 /day	400.00
Bulldozer stripping – J. Coghlin	13.5 hrs @ \$ 250 /hr		3,375.00
Excavator Trenching – Donjeck Services Inv. No. 241863	13 hrs @ \$ 135/hr		1,755.00
Assay costs – ALS Chemex Laboratories Inv. No. 1003 – 090	14 @ \$ 27.25 ea.		381.50
Demob back hoe Donjeck Services Inv. No. 241863	1/3 of ½ costs		<u>283.33</u>
Sub – Total			\$ 6,994.83

Bull 3 claim – research, trenching, geological mapping, sampling and compilation during 2002.

Bulldozer Stripping – J. Coghlin	13.5 hrs @ \$ 250 /hr		\$ 3,375.00
Excavator Trenching - Donjeck Services Inv. No. 241863	13 hrs @ \$ 135.00		1,755.00
Field mapping and sampling	R. Stroshein	1 day @ \$ 400 /day	400.00
Assaying – ALS Chemex Inv. No 1003-090	8 samps @ \$ 27.25 ea.		218.00
Demob back hoe Donjeck Services Inv. No. 241863	1/3 of ½ costs		283.33
Sample compilation	R. Stroshein	1/2 day @ \$ 400.00	<u>200.00</u>
Sub – Total			\$ 6,231.33

Bull 4 claim – trenching, geological mapping, sampling and compilation during 2002.

Excavator Trenching - Donjeck Services Inv. No. 241863	10 hrs @ \$ 135.00		\$ 1,350.00
Field mapping and sampling	R. Stroshein	1 day @ \$ 400 /day	400.00
Assaying – ALS Chemex Inv. No. 1004 - 72223 samples	@ \$ 28.13 ea.		646.95
Demob back hoe Donjeck Services Inv. No. 241863	1/3 of ½ costs		283.33
Freight - Byers Transport – Invoice No. 2431214			78.45
Truck mileage	R. Stroshein	640 km @ 0.50 \$/km	320.00
Shipping and compiling results	R. Stroshein	1 day @ \$ 400.00	<u>400.00</u>
Sub – Total			\$ 3,478.73

Grand Total **\$16,704.89**

9.0 REFERENCES

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APPENDIX 1

STATEMENT OF QUALIFICATIONS

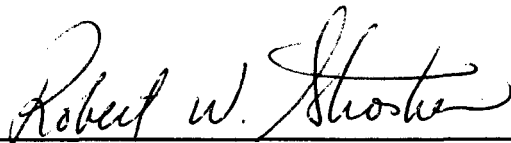
ROBERT W. STROSHEIN P.ENG.

I, Robert W. Stroshein of the City of Whitehorse, Yukon Territory, hereby certify that:

1. I am a Professional Engineer registered (No. 1165) as a member of the Association of Professional Engineers of Yukon Territory.
2. I graduated from the University of Saskatchewan at Saskatoon, Saskatchewan in 1973 with a Bachelor of Science Degree in Geological Engineering.
3. I have been actively engaged as an Exploration Geologist in the Mineral Industry in Western Canada since graduation.
4. I have supervised, conducted and reported on the exploration on the Aurchem Discovery Creek Project during 2002.
5. My business and residential address is:

26 Liard Road
Whitehorse, Yukon Territory
Y1A 3L4

Signed,



Robert W. Stroshein, P.Eng.

December 30, 2002

Aurchem Exploration Ltd.
Discovery Creek Project
Claims Listing

Whitehorse Mining District
Claim sheet: 115 I/03

Claim Name & Nbr.		Grant Number	Expiry Date	Claims	Status
Bit 1	YA	7733	01-Dec-10	1	
Bit 2	YA	7734	01-Dec-09	1	
Bit 3	YA	7735	01-Dec-05	1	
Bit 4	YA	7736	01-Dec-02	1	
Bit 5	YA	7737	01-Dec-10	1	
Bull 1 - 8	YA	81420 - 81427	01-Dec-14	8	
Bull 9 - 10	YA	86288 - 86289	01-Dec-13	2	
Bull 11	YA	86290	28-Feb-11	1	
Bull 12 - 14	YA	86291 - 86293	28-Feb-15	3	
Bull 15 - 20	YA	86294 - 86299	28-Feb-14	6	
Bull 21 - 24	YA	86300 - 86303	28-Feb-09	4	
Bull 25 - 28	YA	86304 - 86307	28-Feb-07	4	
Courtland		55836	27-Nov-19	1	Lease
D 1 - 4	YB	57373 - 57376	20-Jan-03	4	Applied
Dic 1 - 7	YA	93470 - 93476	11-Dec-06	7	
Dic 101 - 106	YB	35470 - 35475	17-Jan-07	6	
Eagle 1 - 12	YB	35415 - 35426	15-Jan-05	12	
Etzel 1 - 3	YA	86336 - 86338	18-Dec-09	3	
Etzel 4	YA	86399	18-Dec-05	1	Applied
Etzel 5	YA	86340	18-Dec-09	1	
Etzel 6	YA	86341	18-Dec-05	1	Applied
Etzel 7	YA	86342	18-Dec-09	1	
Etzel 8	YA	86343	18-Dec-05	1	Applied
Etzel 9	YA	86344	18-Dec-09	1	
Etzel 10	YA	86345	18-Dec-05	1	Applied
Etzel 11 - 17	YA	86346 - 86352	18-Dec-09	7	
Etzel 18 - 20	YA	86353 - 86355	18-Dec-10	3	
Etzel 21 - 28	YA	86356 - 86363	18-Dec-09	8	
Etzel 29 - 34	YA	86364 - 86369	18-Dec-10	6	
Etzel 35 - 44	YA	86370 - 86379	18-Dec-07	10	
Etzel 45 - 50	YA	86380 - 86385	18-Dec-06	6	
Hazel Anne		4210	27-Nov-19	1	Lease
Ida May		39192	27-Nov-19	1	Lease
J. Bill # 1 - 2	YA	78049 - 78050	28-Feb-09	2	
J. Bill # 3 - 4	YA	78051 - 78052	28-Feb-10	2	
J. Bill # 5 - 8	YA	78053 - 78056	28-Feb-09	4	
J. Bill # 9 - 24	YA	78057 - 78072	02-Feb-09	16	
J. Bill # 25 - 32	YA	78073 - 78080	28-Feb-09	8	
J.D. 1 - 2	YB	54755 - 54756	05-Dec-03	2	Applied
JBF 1	YB	36259	01-Dec-06	1	
JBF 2 - 3	YB	36954 - 36955	01-Dec-02	2	Applied
JBF 4 - 7	YB	36956 - 36959	01-Dec-06	4	
JBF 10	YB	54543	05-Dec-02	1	Applied
JLZ	YB	36258	01-Dec-05	1	
Jon - Wedge 1 - 6	YB	35895 - 35900	01-Dec-06	6	Applied
LGCS 1	YA	95014	01-Dec-05	1	Applied
LGCS 3	YA	95016	01-Dec-11	1	
Mack		39134	27-Nov-19	1	Lease
MSL	YA	95099	01-Dec-15	1	

Myrtle		55602	27-Nov-19	1	Lease
Ox 1 - 14	YA	86386 - 86399	20-Dec-03	14	Applied
Ox 15 - 20	YA	86400 - 86405	20-Dec-02	6	Applied
Ras 1 - 3	YA	93138 - 93140	01-Dec-15	3	
Ras 4	YA	93141	01-Dec-05	1	
Rat 1 - 8	YA	81428 - 81435	28-Feb-05	8	
Rat 9 - 24	YA	81436 - 81451	28-Feb-10	16	
Rat 25 - 40	YA	81452 - 81467	28-Feb-05	16	
Ricco		4209	27-Nov-19	1	Lease
Sunset		4243	27-Nov-19	1	Lease
VG 1 - 8	YA	86406 - 86413	20-Dec-03	8	
Vic 1 - 2	YA	86308 - 86309	17-Dec-06	2	
Vic 3 - 6	YA	86310 - 86313	17-Dec-05	4	
Vic 7	Y	76007	17-Jul-06	1	
Vic 8	YA	86314	17-Dec-05	1	
Vic 9	Y	76009	17-Jul-05	1	
Vic 10 - 12	YA	86315 - 86317	17-Dec-06	3	
Vic 13 - 16	YA	86318 - 86321	17-Dec-04	4	Pending
Vic 17 - 18	YA	86322 - 86323	17-Dec-06	2	
Vic 19 - 20	YA	86324 - 86325	17-Dec-04	2	
Vic 21	YA	86326	17-Dec-06	1	
Vic 22	YA	86327	17-Dec-05	1	
Vic 23	YA	86328	17-Dec-06	1	
Vic 24	Y	76024	17-Jul-05	1	
Vic 25	YA	86329	17-Dec-06	1	
Vic 26	Y	76026	17-Jul-05	1	
Vic 27 - 28	YA	86330 - 86331	17-Dec-06	2	
Vic 29 - 32	YA	86332 - 86335	17-Dec-04	4	Pending
Vic 33 - 50	YA	93037 - 93054	15-Aug-04	18	Pending
Vic 51	YC	19413	13-Dec-04	1	Pending
Vic 52	YA	93056	15-Aug-04	1	Pending
Vic 53	YC	19414	13-Dec-04	1	Pending
Vic 54	YA	93058	15-Aug-04	1	Pending
Vic 55 - 64	YC	19415 - 19424	13-Dec-04	10	Pending
Vic 71 - 75	YC	19425 - 19429	13-Dec-04	5	Pending
Vic 76 - 78	YC	19430 - 19432	13-Dec-02	3	Applied
Vic 93 - 98	YC	19433 - 19438	13-Dec-02	6	Applied
Vic 99 - 106	YC	19439 - 19446	13-Dec-04	8	Pending
Vic 107 - 118	YA	93111 - 93122	15-Aug-04	12	Pending
Wedge 1 - 4	YA	82167 - 82170	26-Dec-07	4	
Wedge 5 - 7	YA	82171 - 82173	01-Dec-19	3	
Wedge 8 - 10	YA	82174 - 82176	01-Dec-15	3	
Wedge 11 - 13	YA	82177 - 82179	26-Dec-07	3	
Wedge 14	YA	82180	26-Dec-03	1	
Wedge 15	YA	82181	01-Dec-15	1	
Wedge 16 - 17	YA	93843 - 93844	26-Dec-06	2	
Total				358	

**AURCHEM EXPLORATION LTD.
DISCOVERY CREEK PROJECT**

APPENDIX 3

FIELD NOTES AND TRENCH LOGS

**2002 EXPLORATION PROGRAM
AT TIT MOUNTAIN**

Aurchem Exploration Ltd.
Tit Mountain
Sample Descriptions - 2002 Trenches

Appendix 3

Trench No.	Sample No.	From (m)	To (m)	Width	Au (g/t)	Ag (g/t)	Sample Description
Trench T - 1	53001	3.0	5.0	2.0	0.034	<0.2	Orange brown weathered clay altered granodiorite. Fractured greenish white clay seams
	53002	5.0	7.0	2.0	0.080	<0.2	Orange brown weathered clay altered granodiorite. Fractured greenish white clay seams
	53003	7.0	8.5	1.5	0.026	<0.2	Orange brown weathered clay altered granodiorite. Fractured greenish white clay seams
	53004	8.5	10.5	2.0	0.345	0.5	Intense yellow clay rich zone. Weakly silicified. Altered Qfp.
	53005	10.5	12.0	1.5	1.270	7.5	Intense yellow clay rich zone. Weakly silicified. Altered Qfp.
	53006	12.0	14.0	2.0	0.063	<0.2	Rusty weathered hblid granodiorite. Trace diss. Pyrite.
		14.0	18.0	4.0			Dark grey weathering coarse grained hblid granodiorite. Equigranular. Unaltered.
	53007	18.0	20.0	2.0	0.061	<0.2	Rusty weathered hblid granodiorite. Trace diss. Pyrite.
		20.0	23.5	3.5			Dark grey weathering coarse grained hblid granodiorite. Equigranular. Unaltered.
53008	23.5	25.6	2.1	0.413	0.5	Orange and white clay seam.	
	25.6	28.0	2.4			Weakly altered dark grey hblid granodiorite.	
	28.0	30.0	2.0	0.410	0.9	Grey, fine grained rhyolite dyke, 3 - 7 % cubic diss pyrite grains.	
		30.0				Dark grey weathering coarse grained hblid granodiorite. Equigranular. Unaltered.	
Trench T-2		0.0	4.0	4.0			weakly clay-altered and fractured granodiorite
	53010	4.0	7.0	3.0	0.075	<0.2	orange brown weathered clay alt'n zone(felsic dyke?)
	53011	7.0	8.5	1.5	3.010	8.6	Yellow-grey clay w/1 - 2 cm grey qz stringers
	53012	7.2	7.5	0.3	7.750	14.6	Grab sample of grey fine grained grey quartz veinlets in 25 cm zone.
		8.5	24.0	15.5			unaltered massive granodiorite capped with massive fine grained, green volcanics
	53013	24.0	26.0	2.0	0.077	<0.2	fine-grained felsic dyke w/ diss pyrite - trace amounts
	53014	26.0	28.0	2.0	0.057	<0.2	fine-grained felsic dyke w/ diss pyrite - trace amounts - cross cutting grey green rhy dyke
		28.0	30.5	2.5			unaltered massive granodiorite capped with massive fine grained, green volcanics
	53015	30.5	32.5	2.0	0.137	<0.2	orange brown weathered, sheared granodiorite
32.5		37.0	4.5			unaltered massive granodiorite	
Trench T - 3		0.0	12.0	12.0			grey weathering, massive, equigranular, medium grained granodiorite. occ. rusty zone
	53016	12.0	13.0	1.0	0.044	0.9	orange weathered granodiorite with f.g. dykelet (felsic) with rusty shear
		13.0	16.5	3.5			grey weathering, massive, equigranular, medium grained granodiorite. occ. rusty zone
	53017	16.5	18.5	2.0	0.106	0.7	rusty to orange-brown shear zone in brown weathering granodiorite. Dyke at 16.5 m
		18.5	21.5	3.0			grey weathering, massive, equigranular, medium grained granodiorite. occ. rusty zone
Trench T - 4		0.0	14.0	14.0			Dark green, fine grained, massive Mount Nansen Volcanics.
	53018	14.0	16.0	2.0	0.049	0.9	Rusty weathered shear zone in fine grained, green volcanic (Mount Nansen Fm)
		16.0	41.0	25.0			Dark green, fine grained, massive Mount Nansen Volcanics.
	53019	41.0	43.0	2.0	0.598	11.3	Rusty weathered shear zone in fine grained, green volcanic (Mount Nansen Fm)
		43.0	53.0	10.0			Dark green, fine grained, massive Mount Nansen Volcanics.
	53020	53.0	55.0	2.0	0.182	2.0	Rusty weathered shear zone in fine grained, green volcanic (Mount Nansen Fm)
		55.0	58.0	3.0			Dark green, fine grained, massive Mount Nansen Volcanics.
	53021	58.0	60.0	2.0	0.403	8.5	Rusty weathered shear zone in fine grained, green volcanic (Mount Nansen Fm)
	53022	60.0	62.0	2.0	<0.005	<0.2	Rusty weathered shear zone in fine grained, green volcanic (Mount Nansen Fm)
		62.0	70.0	8.0			Dark green, fine grained, massive Mount Nansen Volcanics.

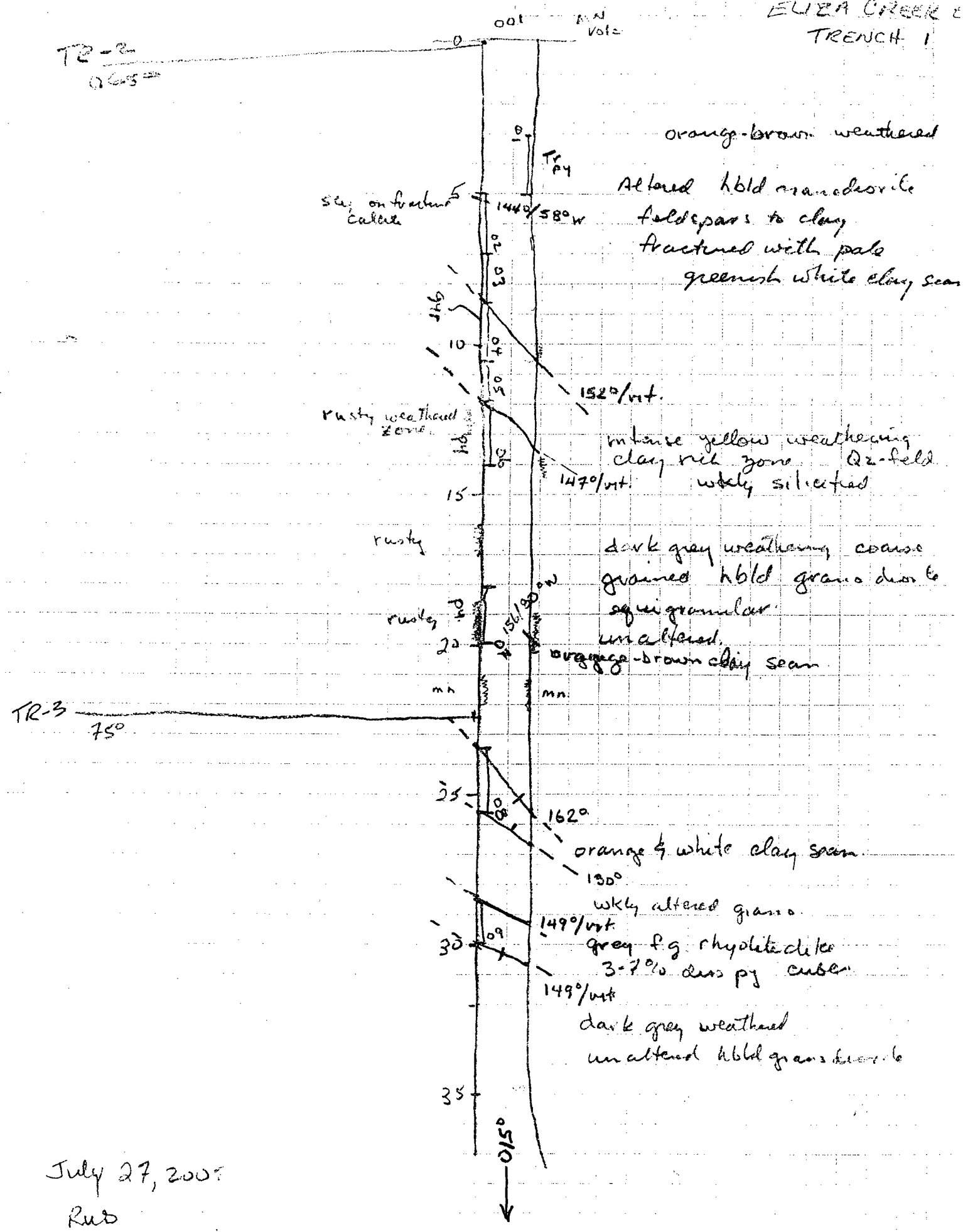
Aurchem Exploration Ltd.
Tit Mountain
Sample Descriptions - 2002 Trenches

Appendix 3

Trench No.	Sample No.	From (m)	To (m)	Width	Au (g/t)	Ag (g/t)	Sample Description
Trench T - 5		0.0	2.5	2.5			Brown weathering, blocky fractured hornblende granodiorite
	156551	2.5	4.5	2.0	0.106	2.2	Rusty weathered, clay-rich, sheared granodiorite w/ quartz strgr and trace diss pyrite.
		4.5	28.0	23.5			Brown weathering, blocky fractured hornblende granodiorite
	156552	28.0	30.0	2.0	0.086	1.2	Rusty weathered w/multiple clay-rich, sheared zones in red-brown granodiorite.
	156553	30.0	32.0	2.0	0.050	0.4	Rusty weathered w/multiple clay-rich, sheared zones in red-brown granodiorite.
	156554	32.0	34.0	2.0	0.098	1.3	Rusty weathered w/multiple clay-rich, sheared zones in red-brown granodiorite.
	156555	34.0	36.0	2.0	0.900	0.8	Intensely sheared rusty red-brown clay-rich shear zones.
	156556	36.0	38.0	2.0	1.420	2.2	Intensely sheared rusty red-brown clay-rich shear zones.
	156557	38.0	40.0	2.0	0.278	1.8	Intensely sheared rusty red-brown clay-rich shear zones.
		40.0	51.0	11.0			Brown weathering, blocky fractured hornblende granodiorite
	156558	51.0	53.0	2.0	0.215	1.2	Clay-rich rusty brown shear zone with black manganese staining in host hblid grano.
		53.0	66.0	13.0			Brown weathering, blocky fractured hornblende granodiorite
	156559	66.0	68.0	2.0	0.358	3.3	Strongly fractured, brecciated, clay altered, rusty weathered hblid granodiorite w/diss pyrite
	156560	68.0	70.0	2.0	0.216	5.6	Strongly fractured, brecciated, clay altered, rusty weathered hblid granodiorite w/diss pyrite
	156561	70.0	72.0	2.0	1.665	11.9	Strongly fractured, brecciated, clay altered, rusty weathered hblid granodiorite w/diss pyrite
	156562	72.0	74.0	2.0	0.258	2.4	Strongly fractured, brecciated, clay altered, rusty weathered hblid granodiorite w/diss pyrite
	156563	74.0	76.0	2.0	0.877	4.7	Strongly fractured, brecciated, clay altered, rusty weathered hblid granodiorite w/diss pyrite
	156564	76.0	78.0	2.0	2.510	3.4	Strongly fractured, brecciated, clay altered, rusty weathered hblid granodiorite w/diss pyrite
	156565	78.0	80.0	2.0	0.492	1.8	Strongly fractured, brecciated, clay altered, rusty weathered hblid granodiorite w/diss pyrite
	156566	80.0	82.0	2.0	0.460	2.1	Strongly fractured, brecciated, clay altered, rusty weathered hblid granodiorite w/diss pyrite
	156567	82.0	84.0	2.0	0.420	1.5	Strongly fractured, brecciated, clay altered, rusty weathered hblid granodiorite w/diss pyrite
	156568	84.0	86.0	2.0	1.220	3.4	Strongly fractured, brecciated, clay altered, rusty weathered hblid granodiorite w/diss pyrite
	156569	86.0	88.0	2.0	2.890	2.6	Strongly fractured, brecciated, clay altered, rusty weathered hblid granodiorite w/diss pyrite
	156570	88.0	90.0	2.0	5.730	12.9	Strongly fractured, brecciated, clay altered, rusty weathered hblid granodiorite w/diss pyrite and white clay seams
	156571	90.0	92.0	2.0	1.235	1.2	Strongly fractured, brecciated, clay altered, rusty weathered hblid granodiorite w/diss pyrite
	156572	92.0	94.0	2.0	0.409	1.4	Strongly fractured, brecciated, clay altered, rusty weathered hblid granodiorite w/diss pyrite
	156573	94.0	96.0	2.0	0.232	1.5	Strongly fractured, brecciated, clay altered, rusty weathered hblid granodiorite w/diss pyrite
		96.0	104.0	8.0			Brown weathering, blocky fractured hornblende granodiorite

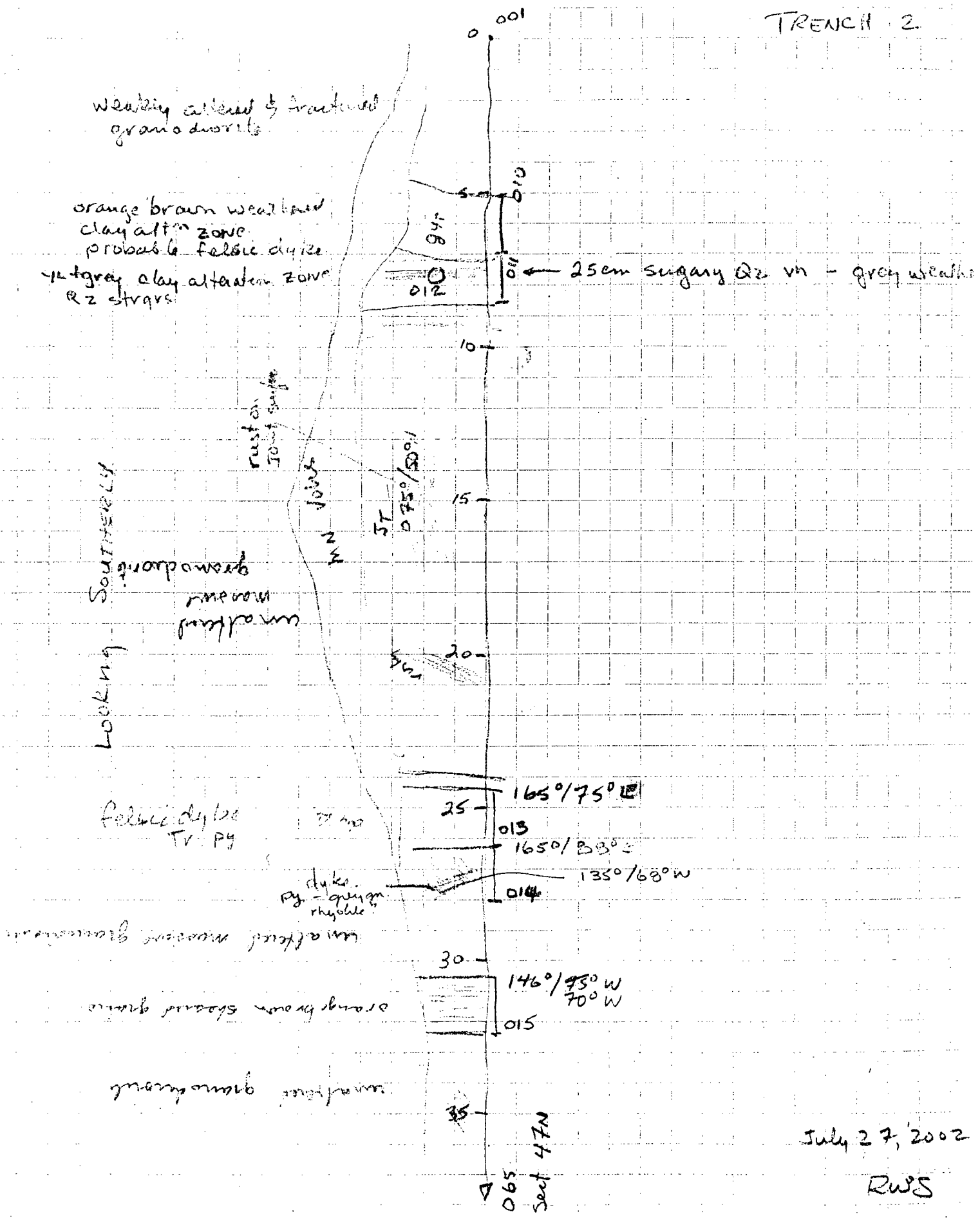
ELIZA CREEK
TRENCH 1

TR-2
065



July 27, 2005
Rub

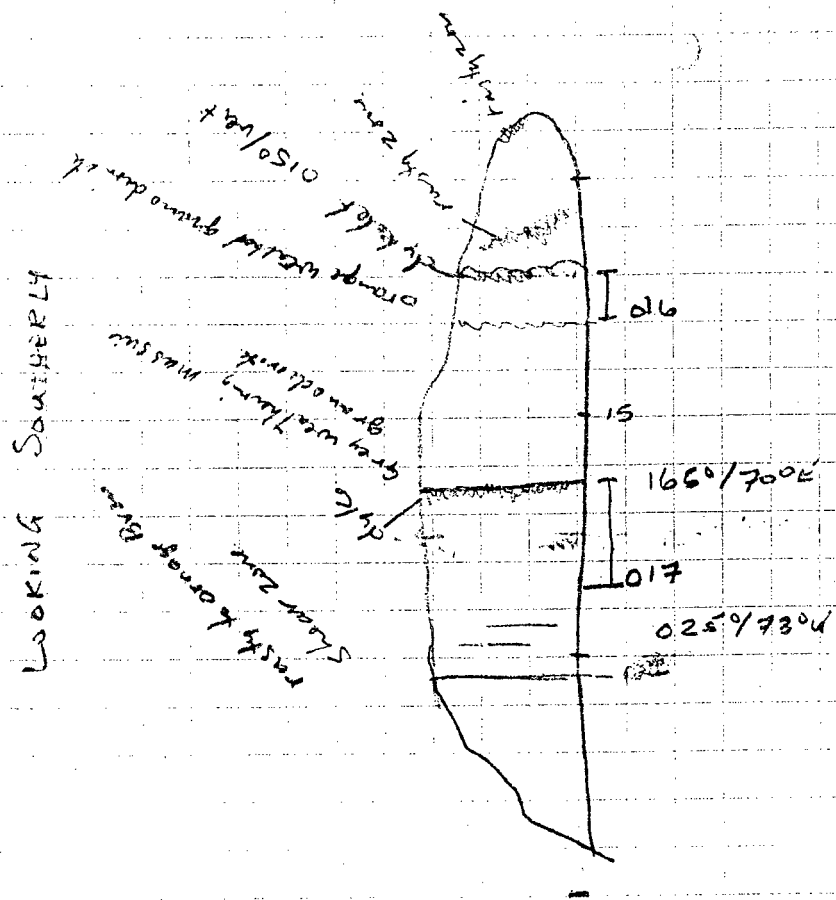
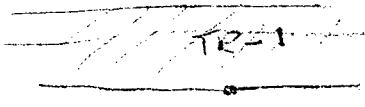
TRENCH 2



July 27, 2002

RWS

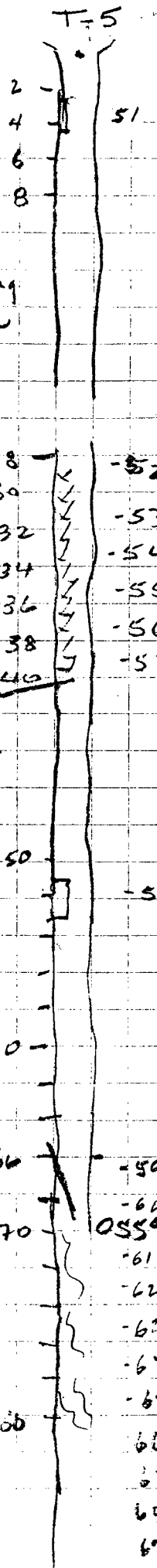
ELIZA CREEK EXT
TRENCH 3



July 28, 2002
RUS.

Oct. 3/02
RWS

TIT MOUNTAIN



2.5 - 4.5 m.
shredded granodiorite
rusty weathered clay rich
Qz - trace py

Brown weathering
blocky, hbl'd granu

Zone of
intense shear

Rusty weathered zone
of multiple shearing
Clay rich shears
red - coarse grained granodiorite

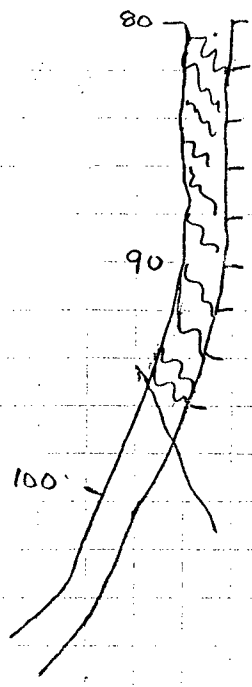
clay rich shear Mn stain
in hbl'd granu

60
OS50/70°NW

Strongly fractured
BR'd, clay altered
rusty weathered
hbl'd granodiorite
extensively weathered
dis py in hbl'd granu (sily)

176

T-5 CONT'D



- 176566
- 567
- 568
- 569
- 570
- 571
- 572
- 573

local white clay seams
 strongly sheared and
 fractured hbl'd grains
 rusty clay rich
 diss py.
 strong weathering

October 3/02
 RID

AURCHEM EXPLORATION LTD.

DISCOVERY CREEK PROJECT

APPENDIX 4

ASSAY RESULTS

ALS CHEMEX LABORATORIES

**2002 EXPLORATION PROGRAM
AT TIT MOUNTAIN**



ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

Aurora Laboratory Services Ltd.

212 Brooksbank Avenue

North Vancouver BC V7J 2C1 Canada

Phone: 604 984 0221 Fax: 604 984 0218

To: AURCHEM EXPLORATION LTD.

26 LIARD RD.

WHITEHORSE YT Y1A 3L4

Page #: 1

Date: 17-Oct-2002

Account: TEH

CERTIFICATE VA02004528

Project : Discovery Creek

P.O. No: 02-03

This report is for 23 ROCK samples submitted to our lab in North Vancouver, BC, Canada on 9-Oct-2002.

The following have access to data associated with this certificate:

ROBERT STROSHEIN
JOHN SCHNEIDER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP41	34 element aqua regia ICP-AES	ICP-AES

To: AURCHEM EXPLORATION LTD.
ATTN: ROBERT STROSHEIN
26 LIARD RD.
WHITEHORSE YT Y1A 3L4

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:



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Aurora Laboratory Services Ltd.

212 Brooksbank Avenue

North Vancouver BC V7J 2C1 Canada

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Page #: 2 - A

Total # of pages : 2 (A - C)

Date : 17-Oct-2002

Account: TEH

Project : Discovery Creek

CERTIFICATE OF ANALYSIS

VA02004528

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
156551		2.92	0.106	2.2	0.55	39	<10	170	<0.5	29	0.11	4.0	6	135	99	3.08
156552		3.44	0.086	1.2	0.91	26	<10	230	0.5	13	0.23	2.2	7	103	97	2.64
156553		2.88	0.050	0.4	1.39	25	<10	110	0.5	5	0.50	0.8	8	121	61	2.80
156554		3.24	0.098	1.3	1.17	23	<10	200	<0.5	16	0.38	1.6	8	202	84	3.07
156555		2.92	0.090	0.8	1.08	21	<10	260	0.5	6	0.26	1.0	11	123	64	2.76
156556		2.94	1.420	2.2	1.38	97	<10	110	0.6	29	0.23	1.1	11	140	95	5.72
156557		2.74	0.278	1.8	0.86	65	<10	90	0.6	22	0.17	1.3	8	109	172	4.62
156558		3.00	0.215	1.2	1.47	31	<10	80	0.5	7	0.31	0.7	5	112	175	3.57
156559		2.58	0.358	3.3	1.28	39	<10	70	<0.5	20	0.21	<0.5	7	128	229	3.41
156560		2.40	0.216	5.6	0.83	76	<10	80	<0.5	81	0.16	1.5	8	106	336	4.18
156561		3.56	1.665	11.9	1.13	116	<10	60	0.6	154	0.27	1.2	8	54	544	4.90
156562		3.00	0.258	2.4	1.10	78	<10	60	<0.5	22	0.22	1.2	7	64	304	4.38
156563		3.54	0.877	4.7	0.76	66	<10	50	<0.5	23	0.13	1.0	5	77	299	3.72
156564		3.54	2.51	3.4	1.00	50	<10	50	<0.5	20	0.18	0.8	3	142	181	3.02
156565		3.12	0.492	1.8	1.07	113	<10	60	<0.5	22	0.24	1.4	5	66	178	4.02
156566		3.32	0.460	2.1	1.13	115	<10	60	<0.5	26	0.25	1.2	5	70	176	4.04
156567		4.26	0.420	1.5	0.56	104	<10	120	0.5	8	0.11	2.0	6	124	188	4.17
156568		3.28	1.220	3.4	0.55	202	<10	50	<0.5	31	0.07	3.2	10	91	225	7.07
156569		3.40	2.89	2.6	0.80	127	<10	70	<0.5	33	0.17	1.6	6	72	216	3.87
156570		3.44	5.73	12.9	0.78	121	<10	70	<0.5	33	0.16	1.6	6	70	207	3.76
156571		3.88	1.235	1.2	0.84	66	<10	30	<0.5	11	0.11	1.6	5	147	180	4.69
156572		4.16	0.409	1.4	1.76	39	<10	120	0.5	7	0.34	1.0	6	130	155	3.13
156573		4.24	0.232	1.5	1.25	55	<10	40	0.5	7	0.23	1.4	5	87	135	3.12



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To: AURCHEM EXPLORATION LTD.

26 LIARD RD.

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Page #: 2 - B

Total # of pages : 2 (A - C)

Date : 17-Oct-2002

Account: TEH

Project : Discovery Creek

CERTIFICATE OF ANALYSIS VA02004528

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm 10	ppm 1	% 0.01	ppm 10	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 2	ppm 1	ppm 1
156551		<10	<1	0.21	20	0.16	178	2	0.02	6	380	65	0.25	8	2	19
156552		10	<1	0.20	20	0.40	297	1	0.02	7	530	26	0.12	3	4	13
156553		10	<1	0.27	20	0.81	437	<1	0.05	8	540	21	0.19	3	6	19
156554		10	<1	0.22	20	0.75	466	1	0.03	10	490	36	0.26	4	4	16
156555		10	<1	0.19	20	0.58	359	1	0.04	8	520	33	0.16	3	4	17
156556		10	1	0.20	20	0.67	362	2	0.02	8	510	27	0.10	4	5	11
156557		10	<1	0.20	20	0.23	262	1	0.01	7	510	36	0.06	4	5	9
156558		10	<1	0.14	10	0.82	350	1	0.03	6	460	21	0.06	2	6	12
156559		10	<1	0.18	10	0.63	232	1	0.04	6	510	41	0.17	<2	5	11
156560		10	<1	0.17	10	0.31	255	1	0.02	6	450	40	0.24	12	4	11
156561		10	<1	0.12	10	0.57	285	<1	0.04	5	500	40	0.24	25	6	15
156562		10	<1	0.11	10	0.59	260	<1	0.04	5	500	32	0.26	8	5	19
156563		10	<1	0.14	10	0.17	143	1	0.02	4	380	25	0.17	9	5	17
156564		10	<1	0.15	10	0.33	148	1	0.02	6	480	29	0.05	4	5	13
156565		10	<1	0.13	10	0.54	235	1	0.04	5	470	31	0.16	19	5	13
156566		10	<1	0.14	10	0.55	237	1	0.04	5	470	30	0.15	17	5	14
156567		<10	<1	0.10	10	0.06	183	1	0.01	7	540	45	0.08	26	6	7
156568		<10	<1	0.11	20	0.04	233	2	0.01	6	390	44	0.09	53	4	5
156569		10	<1	0.15	20	0.22	272	1	0.02	5	510	43	0.04	34	6	11
156570		<10	<1	0.15	20	0.21	264	1	0.02	5	490	40	0.04	30	6	10
156571		10	<1	0.11	10	0.20	210	1	0.01	7	340	20	0.05	19	4	8
156572		10	<1	0.15	10	0.74	309	1	0.07	7	440	26	0.17	6	6	21
156573		10	<1	0.12	10	0.58	279	1	0.04	5	440	43	0.09	5	5	15



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To: AURCHEM EXPLORATION LTD.
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 WHITEHORSE YT Y1A 3L4

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 Total # of pages : 2 (A - C)
 Date : 17-Oct-2002
 Account: TEH

Project : Discovery Creek

CERTIFICATE OF ANALYSIS	VA02004528
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Sample Description	Method Analyte Units LOR	ME-ICP41					
		TI	TI	U	V	W	Zn
		%	ppm	ppm	ppm	ppm	ppm
		0.01	10	10	1	10	2
156551		<0.01	<10	<10	20	<10	289
156552		0.01	<10	<10	35	<10	131
156553		0.05	<10	<10	58	<10	90
156554		0.02	<10	<10	48	<10	112
156555		0.03	<10	<10	46	<10	121
156556		0.01	<10	<10	41	<10	134
156557		0.01	<10	<10	33	<10	126
156558		0.01	<10	<10	53	<10	89
156559		0.01	<10	<10	42	<10	84
156560		0.01	<10	<10	34	<10	104
156561		0.01	<10	<10	48	<10	154
156562		0.01	<10	<10	53	<10	110
156563		<0.01	<10	<10	31	<10	109
156564		0.01	<10	<10	39	<10	108
156565		0.03	<10	<10	51	<10	147
156566		0.03	<10	<10	52	<10	146
156567		<0.01	<10	<10	38	<10	266
156568		<0.01	<10	<10	28	10	231
156569		0.01	<10	<10	41	<10	192
156570		0.01	<10	<10	40	<10	185
156571		<0.01	<10	<10	43	<10	209
156572		0.02	<10	<10	57	<10	135
156573		<0.01	<10	<10	42	<10	163

Aurchem Exploration Ltd.

Assay Method
Au - AA23
and ME-ICP41

Report Number VA02000742
ALS Chemex Laboratories

Discovery Creek Project

Samples Received August 14, 2002

SAMPLE	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
Assay	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	
53001	0.034	<0.2	0.88	32	<10	40	0.5	<2	1.86	2.6	13	59	5	1.92	<10	<1	0.14	10	0.61	382	1	0.03	7	390	47	1.06	<2	3	27	<0.01	<10	<10	31	<10	167
53002	0.080	<0.2	1.05	38	<10	80	0.5	<2	2.59	5.1	17	43	50	2.24	<10	<1	0.18	10	0.53	613	1	0.03	7	430	67	1.82	<2	3	43	0.01	<10	<10	32	<10	335
53003	0.026	<0.2	1.18	89	20	90	0.5	<2	1.52	1.2	6	61	88	2.38	<10	<1	0.29	10	0.45	178	1	0.05	5	340	27	1.43	<2	5	42	0.04	<10	<10	41	<10	200
53004	0.345	0.5	0.29	642	<10	80	<0.5	<2	2.05	<0.5	4	53	33	5.32	<10	<1	0.8	<10	0.04	54	1	0.07	2	200	116	3.36	4	2	44	<0.01	<10	<10	19	<10	195
53005	1.270	7.5	0.22	318	10	80	<0.5	36	0.77	<0.5	2	60	18	5.82	<10	<1	1.12	<10	0.02	18	1	0.07	2	130	239	2.94	<2	1	48	<0.01	<10	<10	8	<10	42
53006	0.063	<0.2	1.29	111	<10	110	0.5	<2	0.28	0.5	5	49	52	3.02	<10	<1	0.33	10	0.56	183	1	0.1	3	430	43	0.5	<2	4	56	0.09	<10	<10	51	<10	133
53007	0.061	<0.2	1.29	54	10	40	0.5	<2	0.34	0.6	9	51	83	3.11	<10	<1	0.14	<10	0.64	233	5	0.09	4	410	50	0.59	<2	4	38	0.1	<10	<10	61	<10	98
53008	0.413	0.5	0.3	213	10	80	<0.5	<2	1.92	<0.5	3	52	21	4.62	<10	<1	0.62	10	0.04	58	1	0.07	1	240	84	2.96	<2	1	56	<0.01	<10	<10	9	<10	92
53009	0.041	0.9	0.88	77	<10	90	<0.5	6	3.33	0.7	11	16	122	2.12	<10	1	0.2	<10	0.48	240	2	0.03	1	910	26	1.47	<2	1	52	<0.01	<10	<10	11	<10	72
53010	0.075	<0.2	1.23	195	<10	80	<0.5	<2	2.1	<0.5	7	21	78	3.99	<10	2	0.32	10	0.34	114	3	0.17	3	590	45	2.69	2	5	63	0.01	<10	<10	53	<10	172
53011	3.010	8.6	0.17	320	10	80	<0.5	55	1.24	<0.5	1	56	14	4.15	<10	1	0.88	<10	0.02	17	1	0.04	1	130	292	3.03	4	<1	22	0.01	<10	<10	8	<10	28
53012	7.750	14.6	0.12	336	<10	60	<0.5	109	1.45	<0.5	1	69	13	3.48	<10	<1	0.76	<10	0.01	17	2	0.03	1	60	348	3.27	9	<1	11	0.01	<10	<10	5	<10	41
53013	0.077	<0.2	0.59	86	<10	70	<0.5	6	0.7	<0.5	5	23	24	2.31	<10	<1	0.26	10	0.22	80	2	0.08	1	880	26	0.95	<2	1	35	<0.01	<10	<10	5	<10	56
53014	0.057	<0.2	1.17	62	<10	90	<0.5	<2	0.39	<0.5	6	46	30	2.47	<10	<1	0.13	10	0.67	180	2	0.09	3	400	39	0.78	<2	4	35	0.09	<10	<10	46	<10	95
53015	0.137	<0.2	0.33	103	<10	80	<0.5	15	1.07	<0.5	6	33	18	3.43	<10	<1	0.18	10	0.04	144	2	0.09	6	1130	34	1.23	<2	1	85	<0.01	<10	10	10	<10	75
53016	0.044	0.9	1.28	35	<10	50	0.6	<2	0.28	0.8	<1	45	87	2.82	10	<1	0.16	10	0.85	208	1	0.06	4	460	25	0.14	<2	6	69	0.17	<10	10	68	<10	99
53017	0.106	0.7	0.47	125	<10	90	0.5	16	0.52	2.2	10	33	19	3.98	<10	1	0.17	10	0.13	377	2	0.07	9	1260	45	0.52	<2	3	93	<0.01	<10	<10	15	<10	132
53018	0.049	0.9	2.7	52	<10	50	0.6	<2	0.82	18.2	3	11	124	2.66	10	1	0.16	<10	1.09	258	<1	0.15	5	960	49	0.31	3	4	58	0.02	<10	<10	42	<10	514
53019	0.598	11.3	1.99	490	<10	130	0.7	51	0.92	5.6	<1	27	116	6.45	10	<1	0.39	10	0.59	151	2	0.08	10	700	352	1.07	12	8	99	0.01	<10	<10	73	<10	891
53020	0.182	2	1.09	227	<10	60	0.6	27	2.76	1.7	2	18	192	4.76	<10	<1	0.37	10	0.25	151	1	0.13	10	570	36	2.92	4	6	79	<0.01	<10	<10	42	<10	216
53021	0.403	8.5	1.17	341	<10	120	0.6	25	0.33	4.2	<1	44	357	6.46	10	<1	0.31	10	0.45	123	2	0.13	8	610	74	0.81	8	6	67	0.02	<10	<10	60	<10	401
53022	<0.005	<0.2	1.29	40	<10	110	0.9	<2	0.54	<0.5	15	23	23	3.94	10	1	0.1	10	0.7	776	<1	0.02	10	990	8	0.02	8	10	27	<0.01	<10	<10	81	<10	72

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